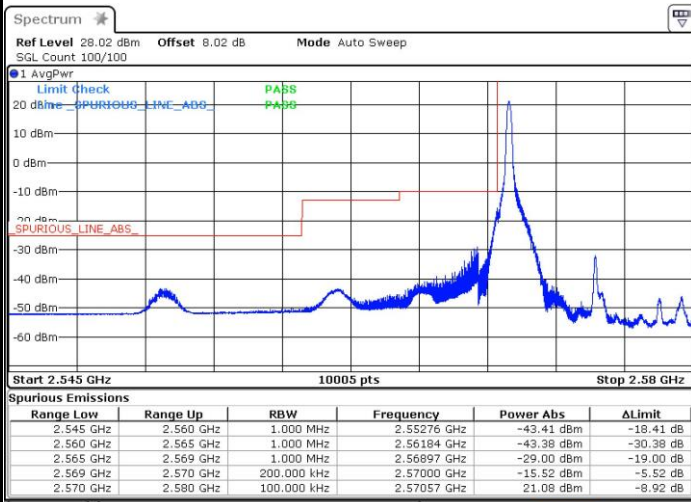




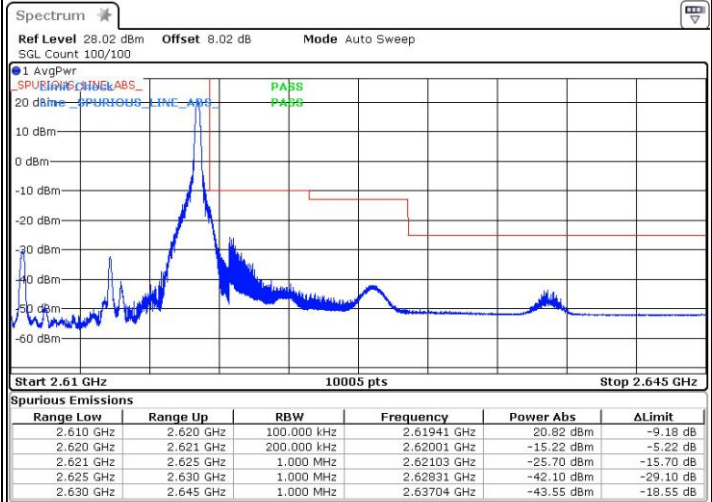
LTE Band 38 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



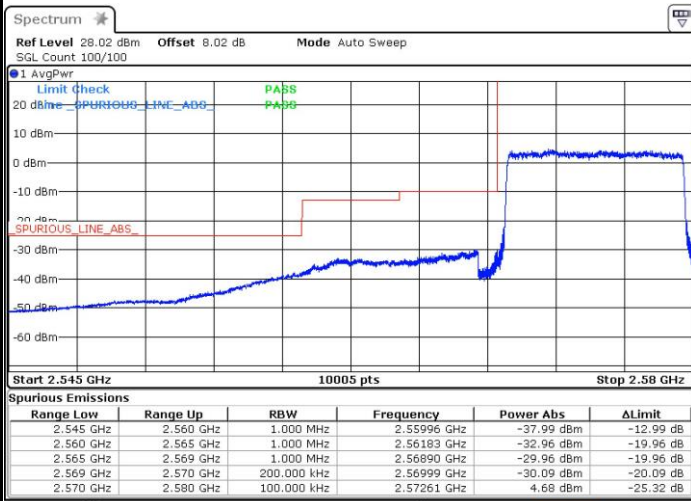
Date: 14.MAY.2017 11:37:06



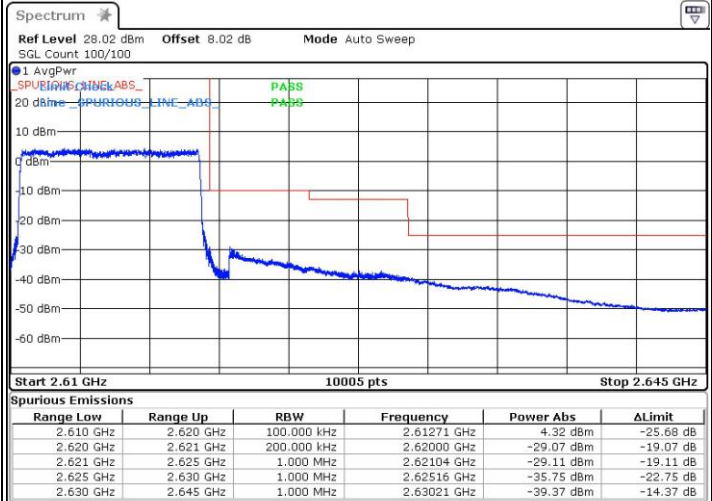
Date: 14.MAY.2017 11:50:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.MAY.2017 11:48:11

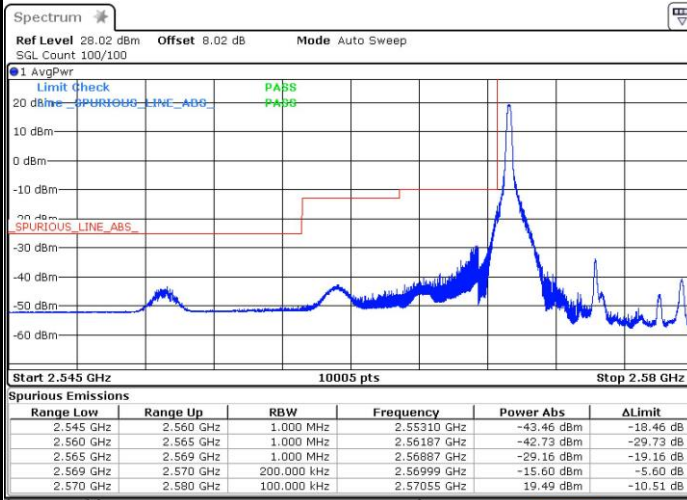


Date: 14.MAY.2017 11:57:30



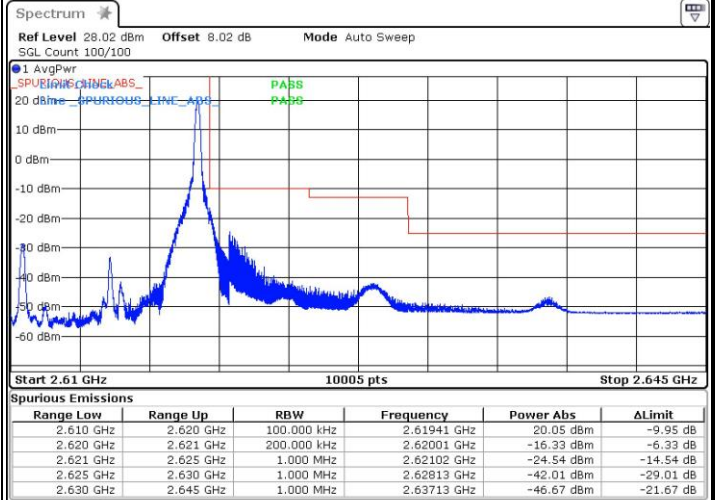
LTE Band 38 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



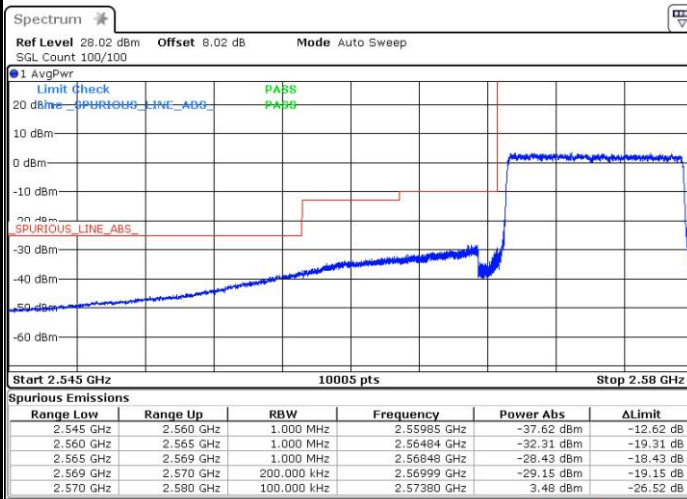
Date: 14.MAY.2017 11:46:01

Highest Band Edge / 1 RB



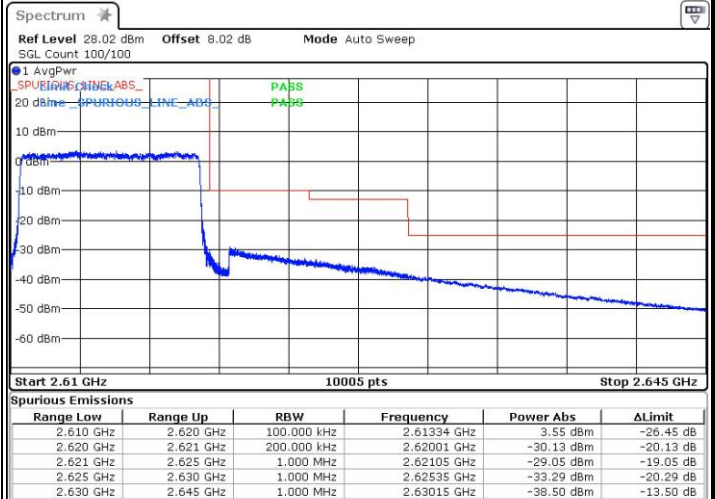
Date: 14.MAY.2017 11:55:03

Lowest Band Edge / Full RB



Date: 14.MAY.2017 11:47:31

Highest Band Edge / Full RB

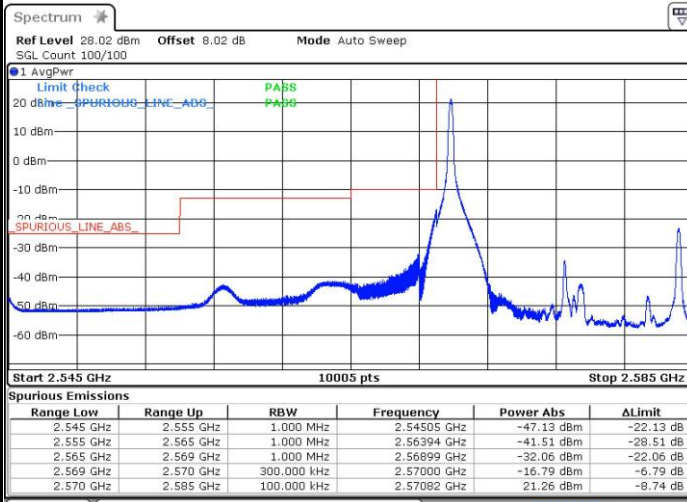


Date: 14.MAY.2017 11:58:18



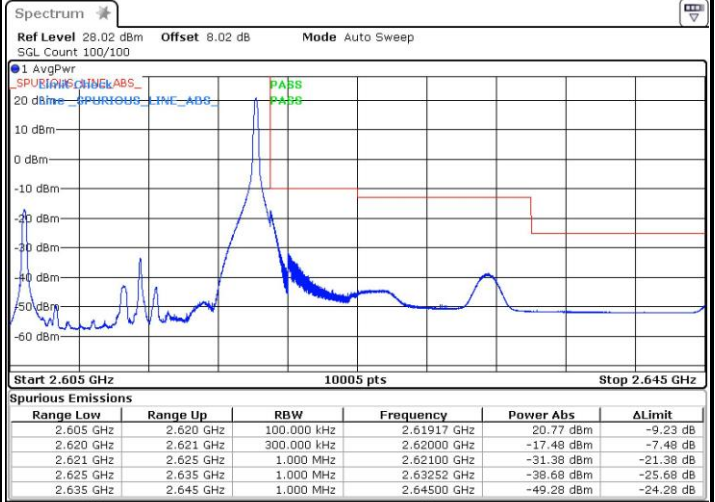
LTE Band 38 / 15MHz / QPSK

Lowest Band Edge / 1 RB



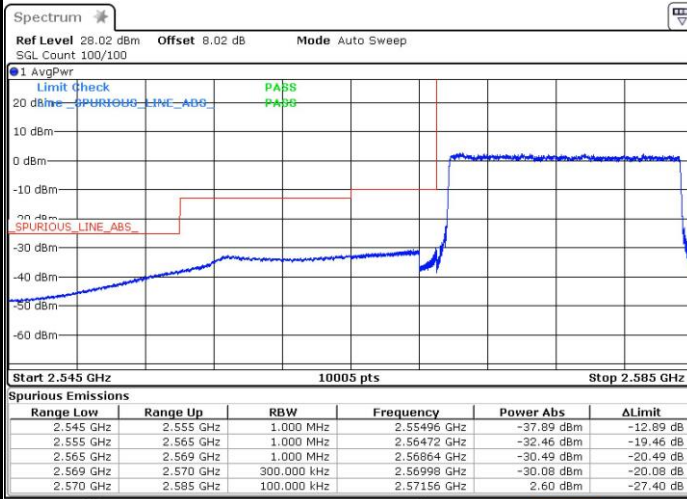
Date: 14.MAY.2017 14:01:03

Highest Band Edge / 1 RB



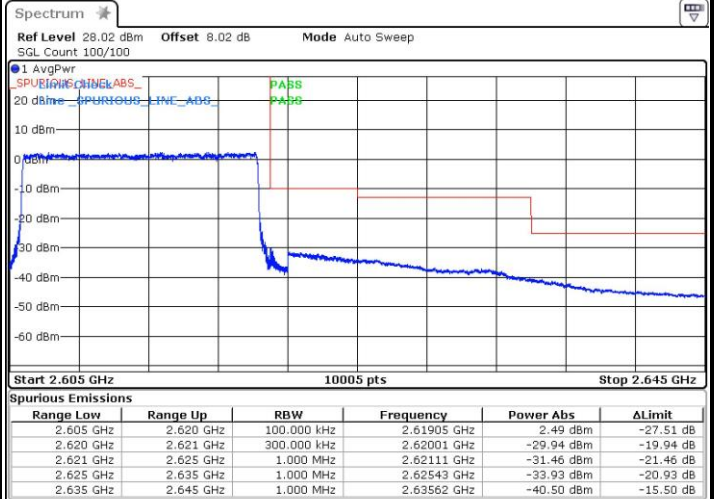
Date: 14.MAY.2017 14:16:11

Lowest Band Edge / Full RB



Date: 14.MAY.2017 14:07:36

Highest Band Edge / Full RB

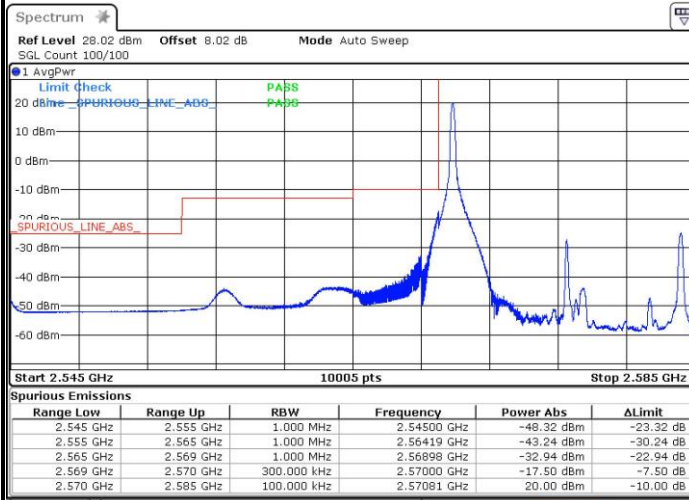


Date: 14.MAY.2017 14:24:42



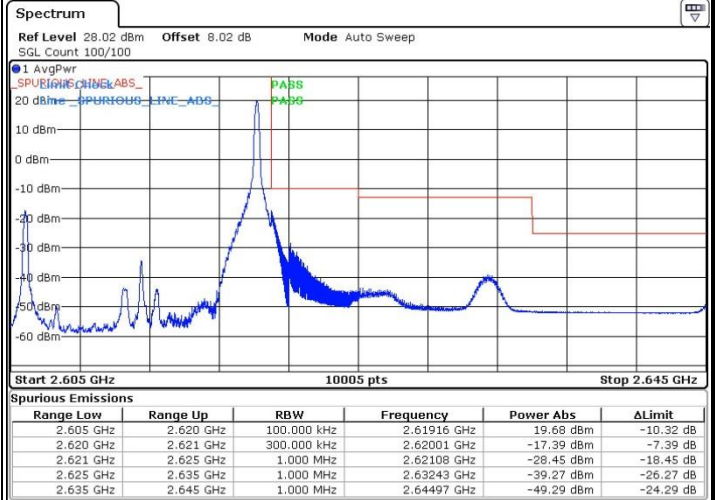
LTE Band 38 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



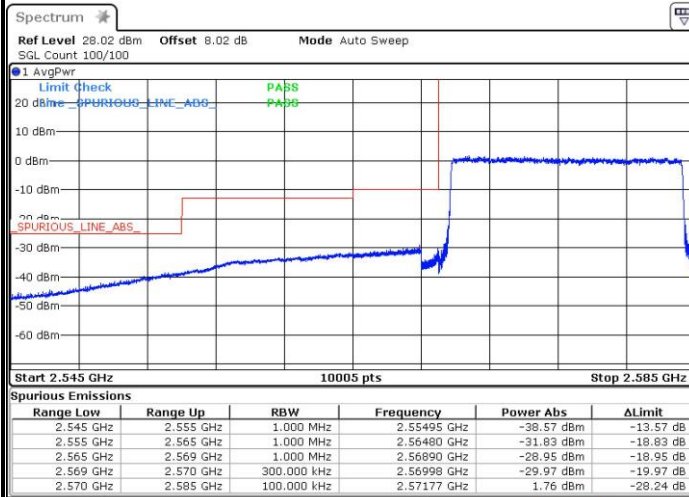
Date: 14.MAY.2017 14:05:28

Highest Band Edge / 1 RB



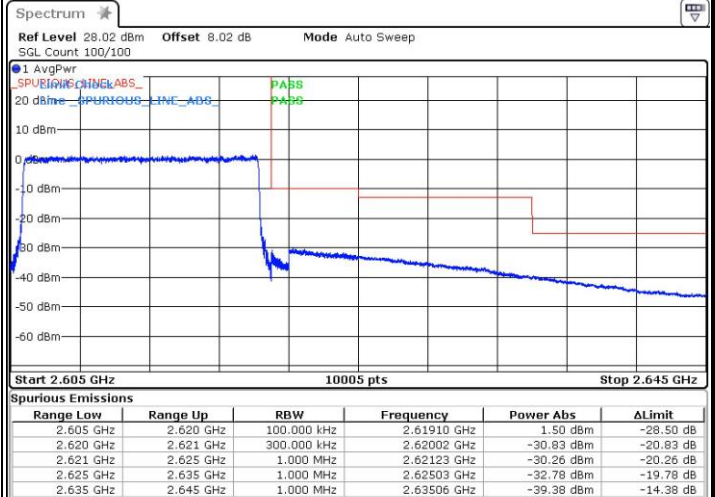
Date: 14.MAY.2017 14:21:30

Lowest Band Edge / Full RB



Date: 14.MAY.2017 14:08:29

Highest Band Edge / Full RB

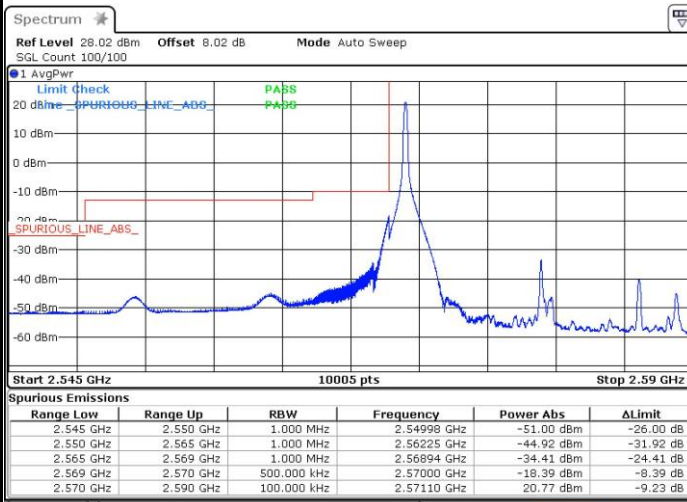


Date: 14.MAY.2017 14:25:37



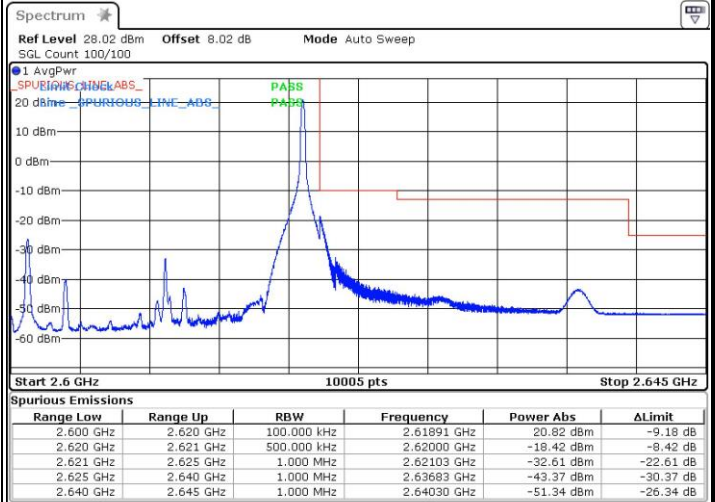
LTE Band 38 / 20MHz / QPSK

Lowest Band Edge / 1 RB



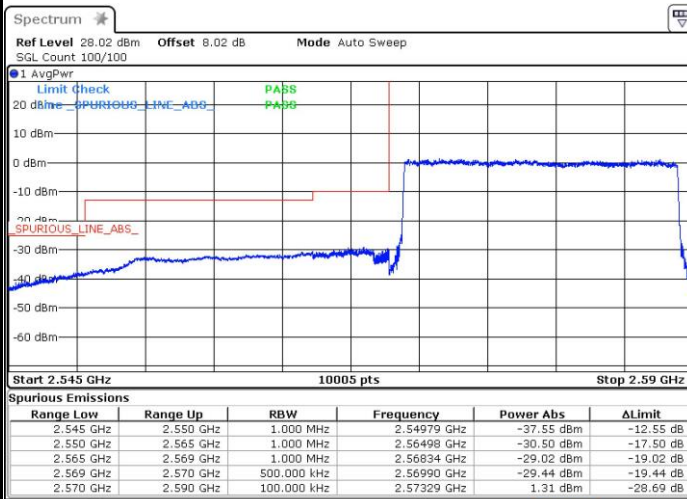
Date: 14.MAY.2017 14:45:26

Highest Band Edge / 1 RB



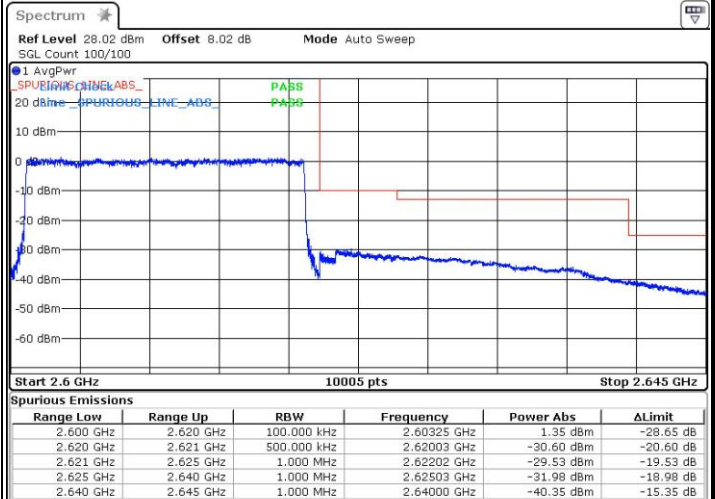
Date: 14.MAY.2017 14:51:12

Lowest Band Edge / Full RB



Date: 14.MAY.2017 14:46:15

Highest Band Edge / Full RB

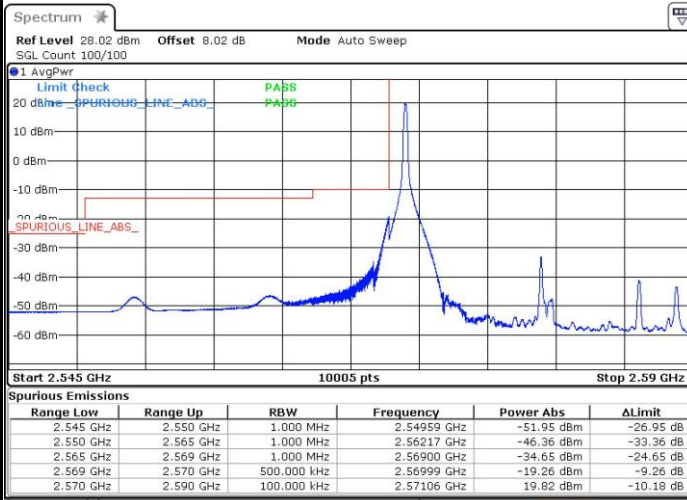


Date: 14.MAY.2017 14:57:51



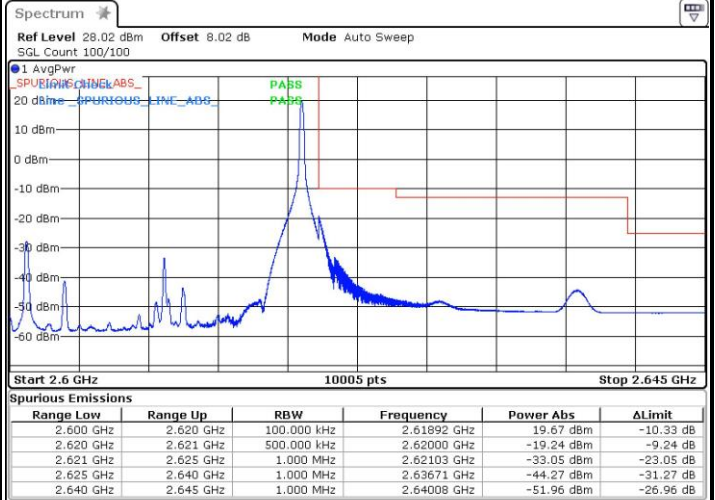
LTE Band 38 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



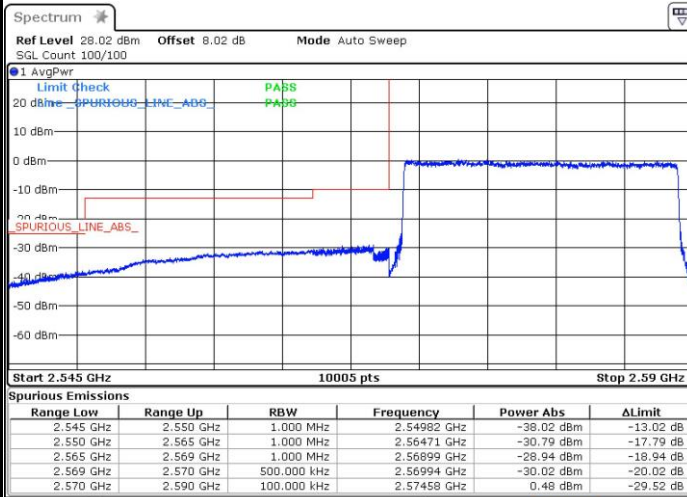
Date: 14.MAY.2017 14:41:26

Highest Band Edge / 1 RB



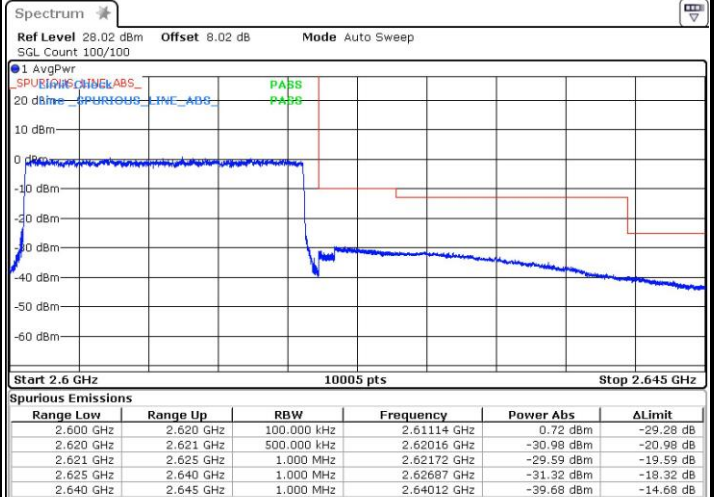
Date: 14.MAY.2017 14:56:47

Lowest Band Edge / Full RB



Date: 14.MAY.2017 14:46:55

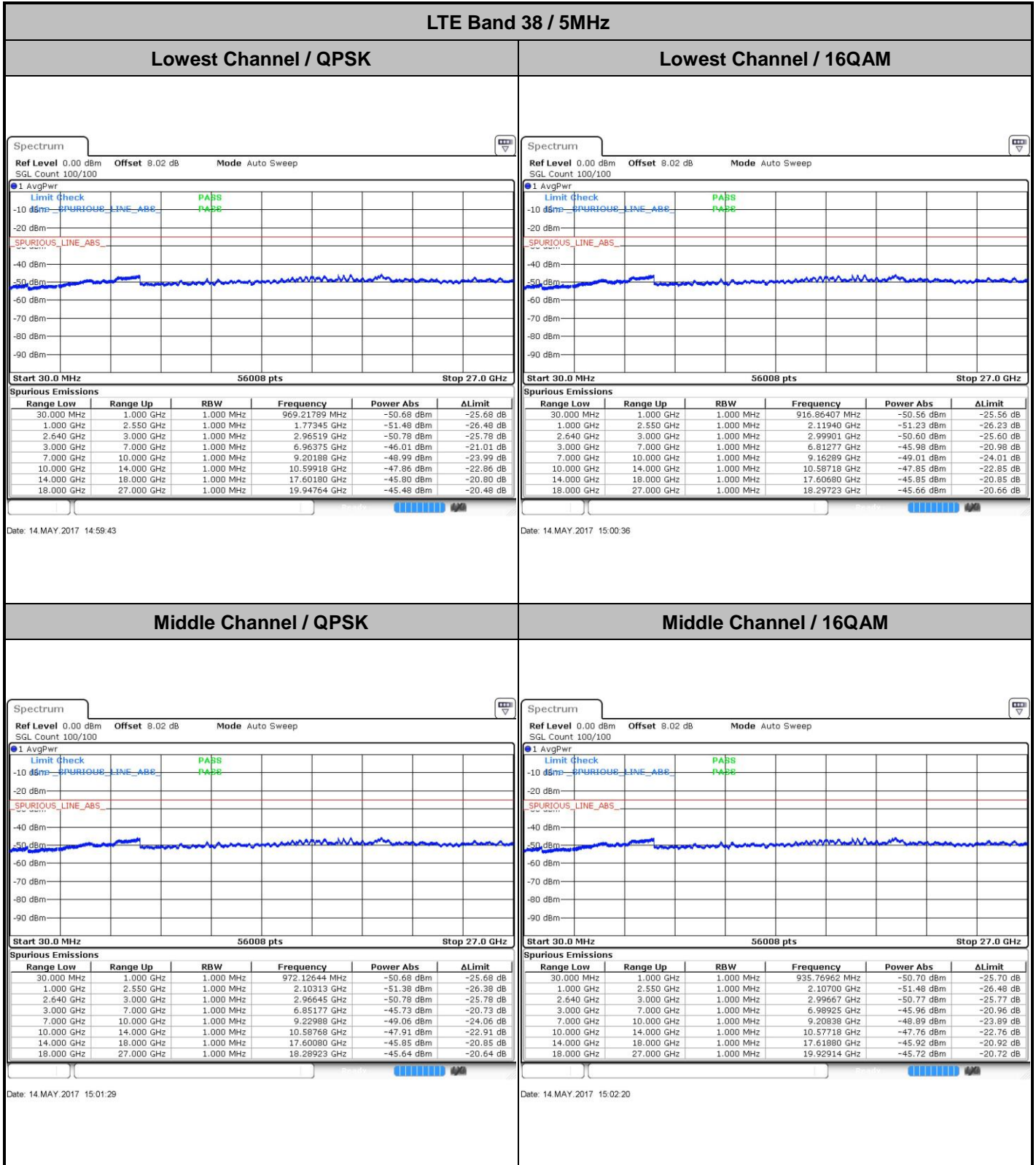
Highest Band Edge / Full RB



Date: 14.MAY.2017 14:58:26



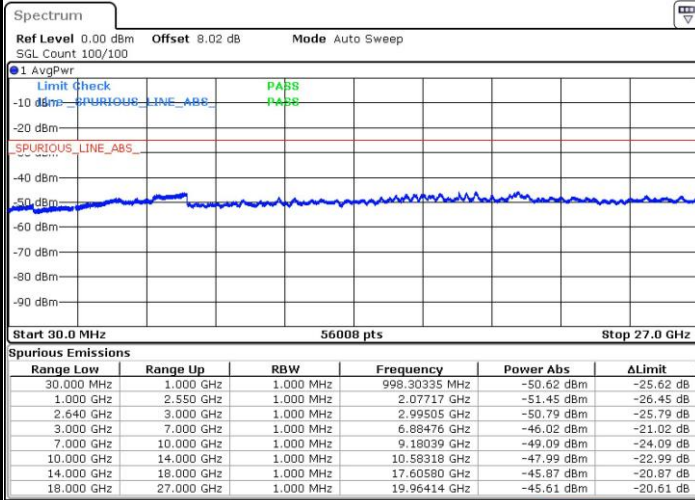
Conducted Spurious Emission





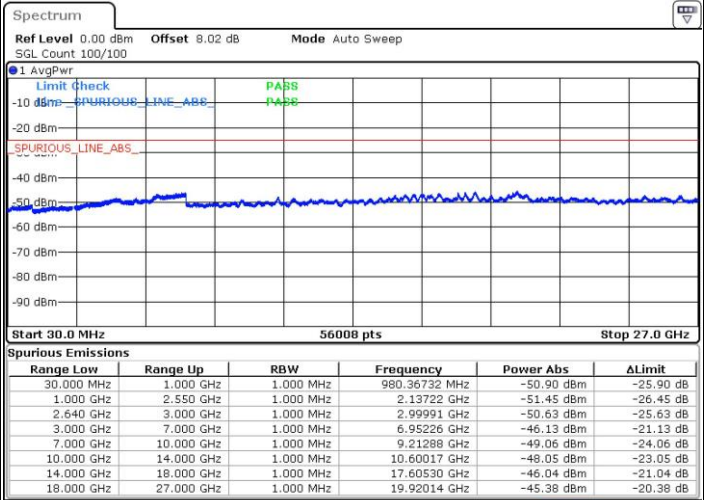
LTE Band 38 / 5MHz

Highest Channel / QPSK



Date: 14.MAY.2017 15:03:13

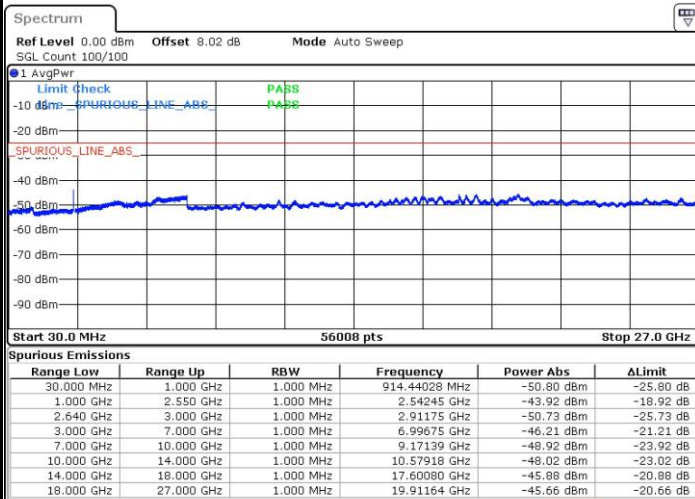
Highest Channel / 16QAM



Date: 14.MAY.2017 15:04:06

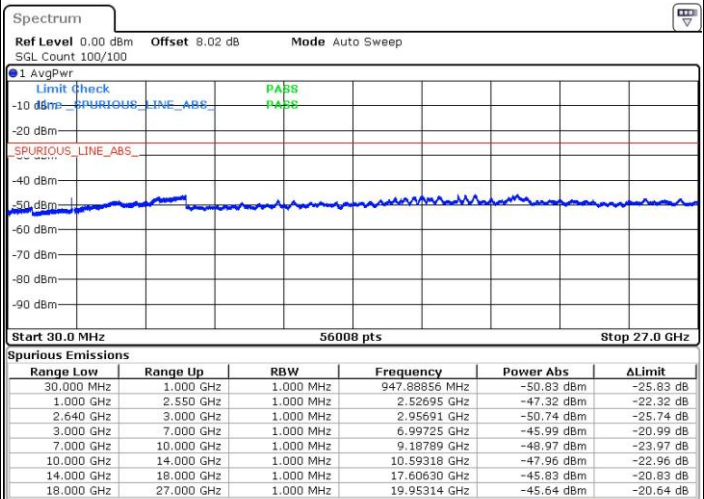
LTE Band 38 / 10MHz

Lowest Channel / QPSK



Date: 14.MAY.2017 15:04:59

Lowest Channel / 16QAM



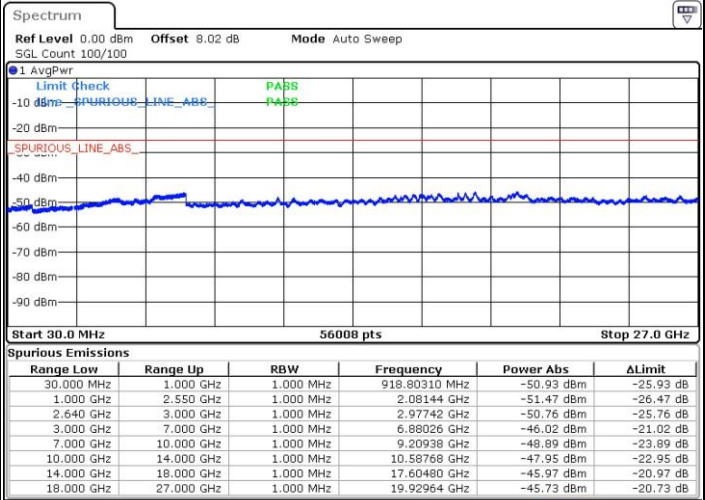
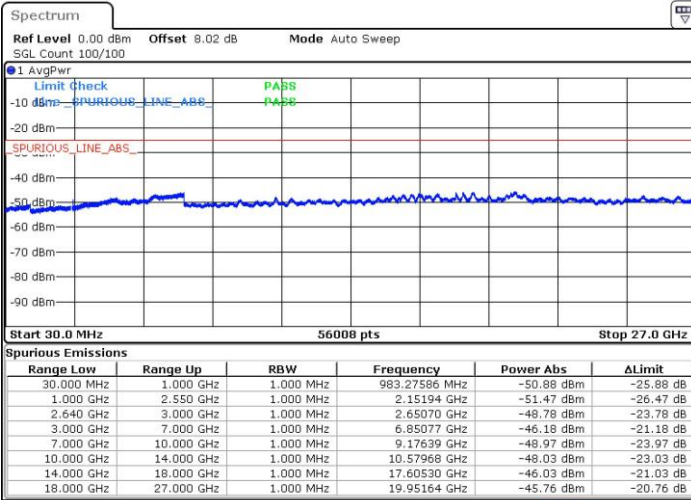
Date: 14.MAY.2017 15:05:53



LTE Band 38 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

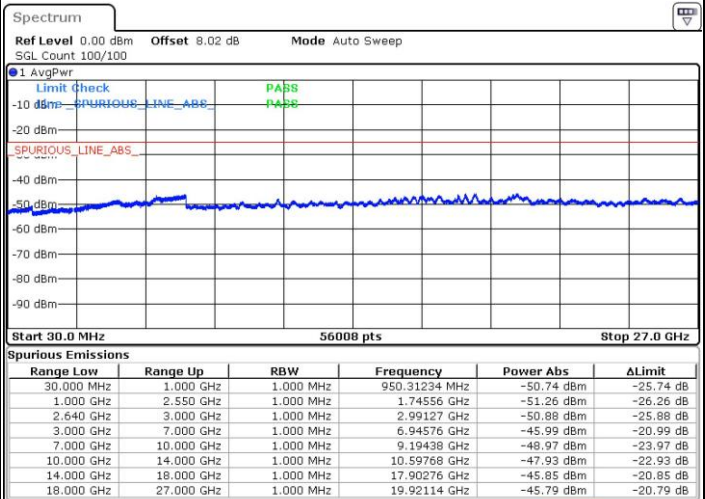
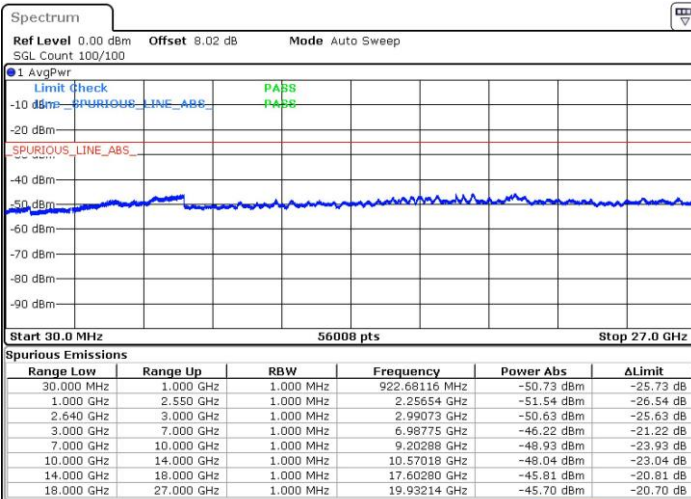


Date: 14.MAY.2017 15:06:48

Date: 14.MAY.2017 15:07:49

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 14.MAY.2017 15:14:11

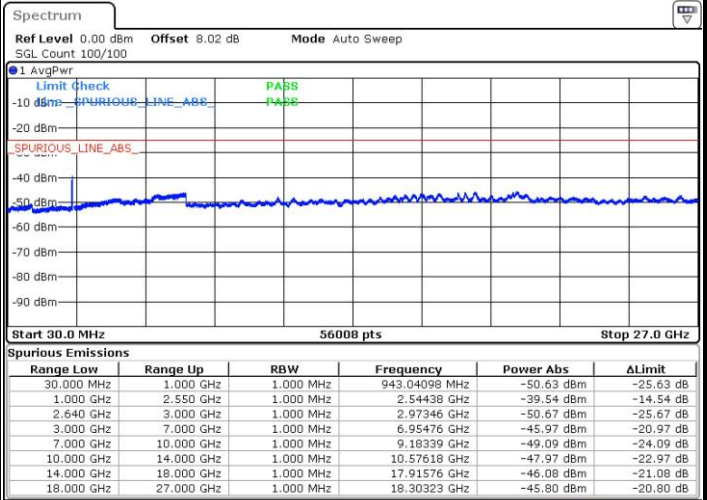
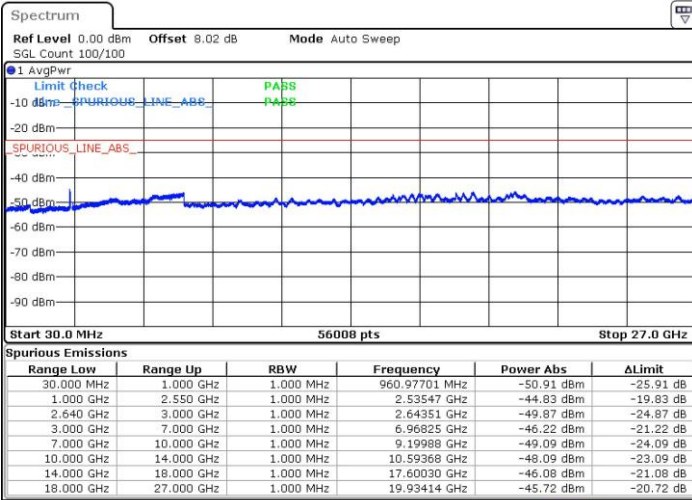
Date: 14.MAY.2017 15:15:02



LTE Band 38 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

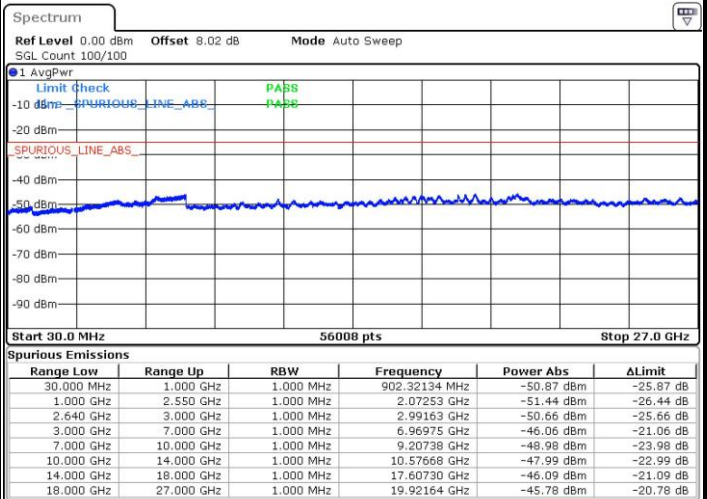
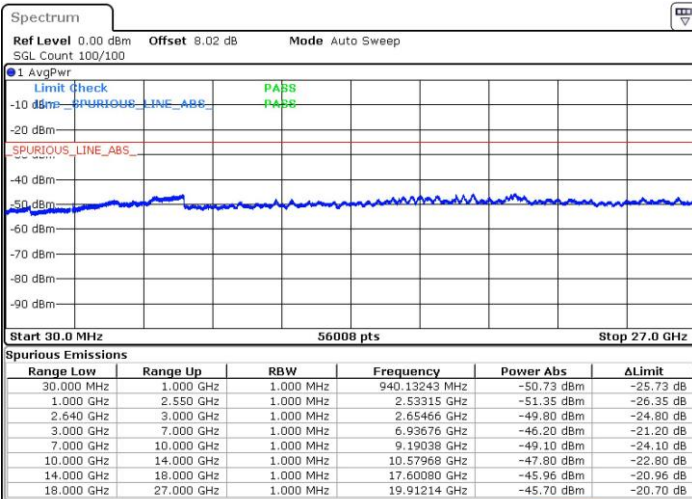


Date: 14.MAY.2017 15:16:06

Date: 14.MAY.2017 15:18:45

Middle Channel / QPSK

Middle Channel / 16QAM



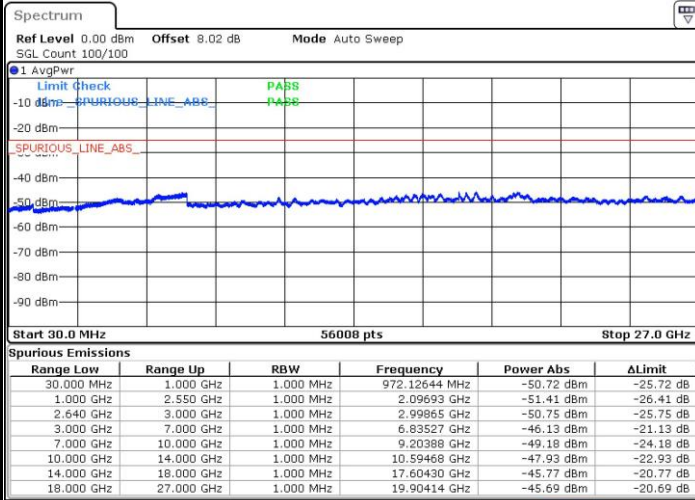
Date: 14.MAY.2017 15:19:42

Date: 14.MAY.2017 15:21:10



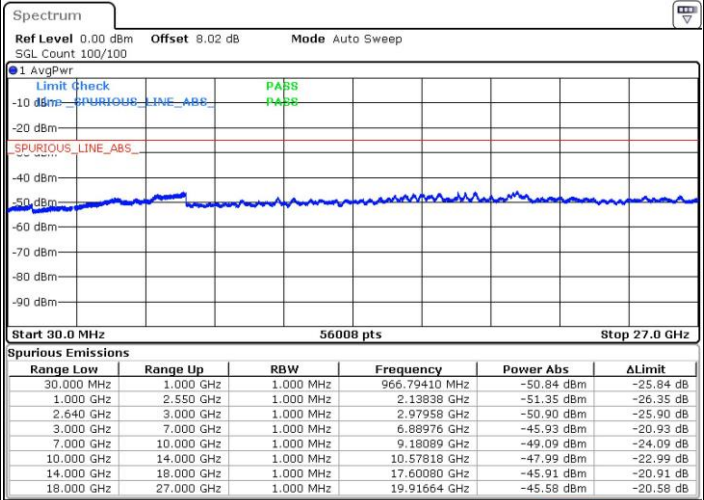
LTE Band 38 / 15MHz

Highest Channel / QPSK



Date: 14.MAY.2017 15:25:13

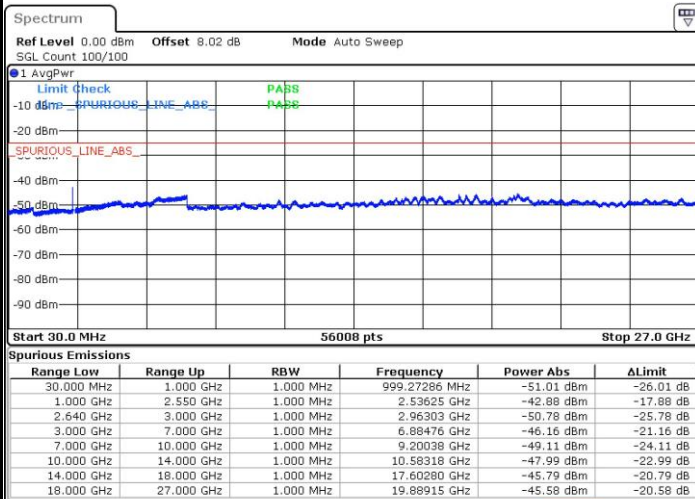
Highest Channel / 16QAM



Date: 14.MAY.2017 15:26:05

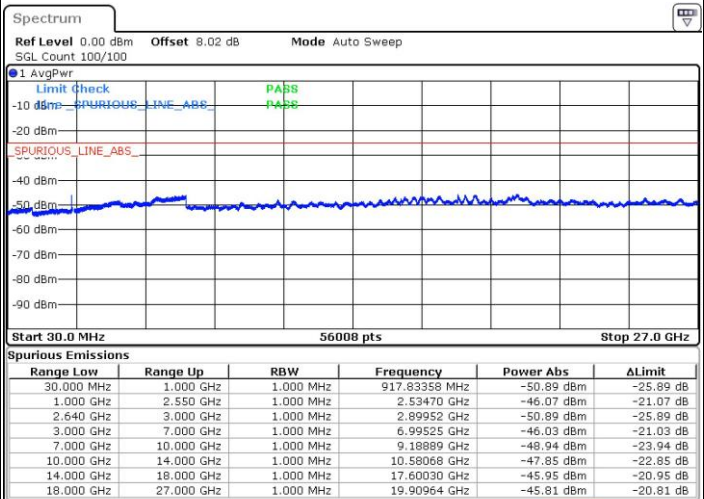
LTE Band 38 / 20MHz

Lowest Channel / QPSK



Date: 14.MAY.2017 15:26:59

Lowest Channel / 16QAM



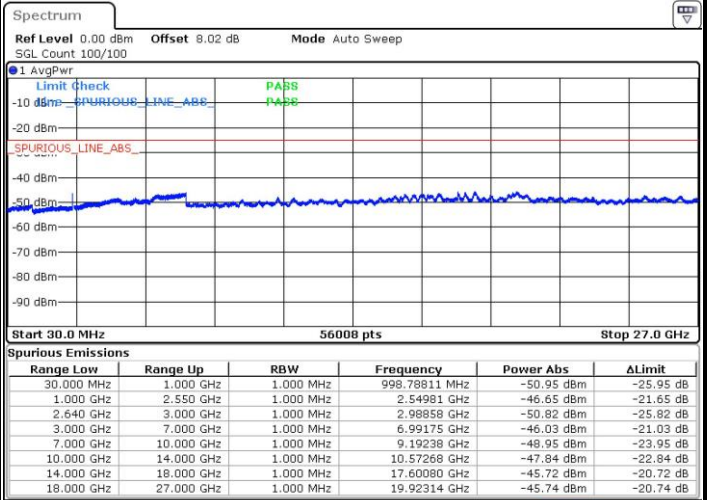
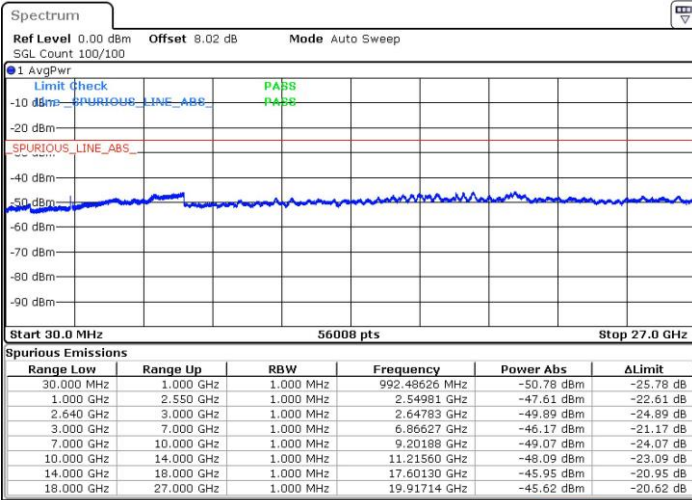
Date: 14.MAY.2017 15:27:51



LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

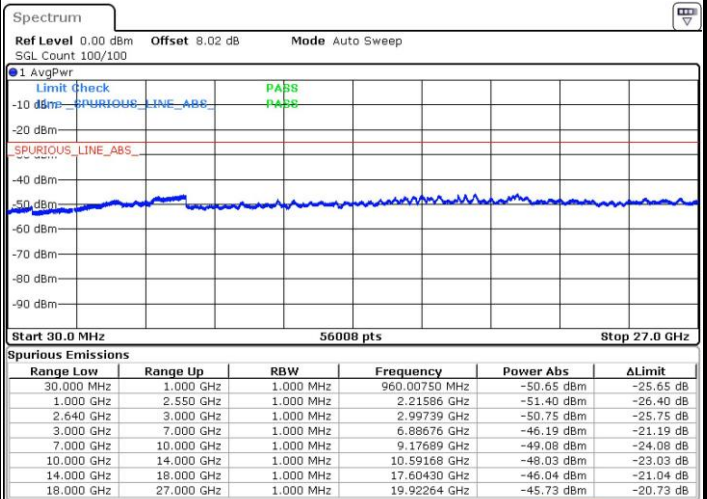
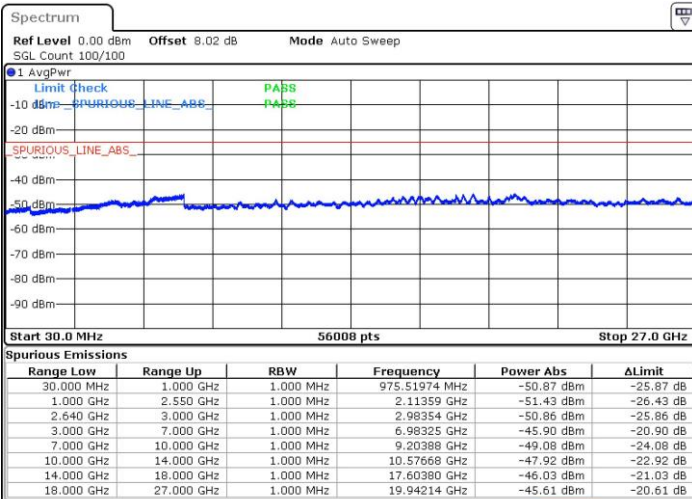


Date: 14.MAY.2017 15:28:59

Date: 14.MAY.2017 15:29:51

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 14.MAY.2017 15:30:44

Date: 14.MAY.2017 15:31:35



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	0.0007	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0003	
20	Battery End Point	0.0003	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 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 5 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1668	-67.68	-13	-54.68	-66.31	-69.54	1.19	5.20	H
	2502	-51.96	-13	-38.96	-55.55	-54.18	1.53	5.90	H
	3336	-62.75	-13	-49.75	-66.70	-65.54	1.76	6.70	H
	1668	-66.57	-13	-53.57	-64.53	-68.43	1.19	5.20	V
	2502	-55.65	-13	-42.65	-57.63	-57.87	1.53	5.90	V
	3336	-61.45	-13	-48.45	-64.77	-64.24	1.76	6.70	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5060	-57.13	-25	-32.13	-66.35	-63.69	2.41	8.97	H
	7592	-54.89	-25	-29.89	-68.59	-63.89	2.86	11.86	H
	10125	-57.43	-25	-32.43	-75.78	-66.33	3.21	12.11	H
	5060	-54.30	-25	-29.30	-63.01	-60.86	2.41	8.97	V
	7592	-51.45	-25	-26.45	-66.08	-60.45	2.86	11.86	V
	10125	-56.43	-25	-31.43	-75.83	-65.33	3.21	12.11	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 38 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5184	-57.51	-25	-32.51	-66.73	-64.07	2.41	8.97	H
	7776	-57.68	-25	-32.68	-71.38	-66.68	2.86	11.86	H
	10368	-58.21	-25	-33.21	-76.56	-67.11	3.21	12.11	H
	5184	-59.71	-25	-34.71	-68.42	-66.27	2.41	8.97	V
	7780	-58.18	-25	-33.18	-72.81	-67.18	2.86	11.86	V
	10368	-57.10	-25	-32.10	-76.5	-66.00	3.21	12.11	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 38 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5180	-57.45	-25	-32.45	-66.67	-64.01	2.41	8.97	H
	7772	-54.50	-25	-29.50	-68.20	-63.50	2.86	11.86	H
	10359	-58.34	-25	-33.34	-76.69	-67.24	3.21	12.11	H
	5180	-60.06	-25	-35.06	-68.77	-66.62	2.41	8.97	V
	7772	-56.13	-25	-31.13	-70.76	-65.13	2.86	11.86	V
	10359	-57.43	-25	-32.43	-76.83	-66.33	3.21	12.11	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 38 / 15MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5176	-58.80	-25	-33.80	-68.02	-65.36	2.41	8.97	H
	7764	-54.73	-25	-29.73	-68.43	-63.73	2.86	11.86	H
	10350	-58.53	-25	-33.53	-76.88	-67.43	3.21	12.11	H
	5176	-57.42	-25	-32.42	-66.13	-63.98	2.41	8.97	V
	7764	-57.56	-25	-32.56	-72.19	-66.56	2.86	11.86	V
	10350	-57.29	-25	-32.29	-76.69	-66.19	3.21	12.11	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 38 / 20MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5172	-59.18	-25	-34.18	-68.40	-65.74	2.41	8.97	H
	7760	-60.73	-25	-35.73	-74.43	-69.73	2.86	11.86	H
	10341	-57.28	-25	-32.28	-75.63	-66.18	3.21	12.11	H
	5172	-57.93	-25	-32.93	-66.64	-64.49	2.41	8.97	V
	7760	-57.32	-25	-32.32	-71.95	-66.32	2.86	11.86	V
	10341	-57.35	-25	-32.35	-76.75	-66.25	3.21	12.11	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Appendix D. Product Equality Declaration



Appendix E. Original Report

Please refer to Sporton report number FG711913B which is issued separately.