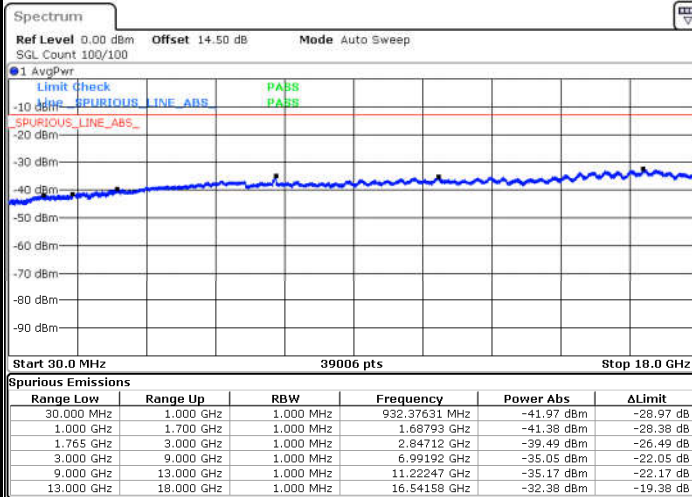




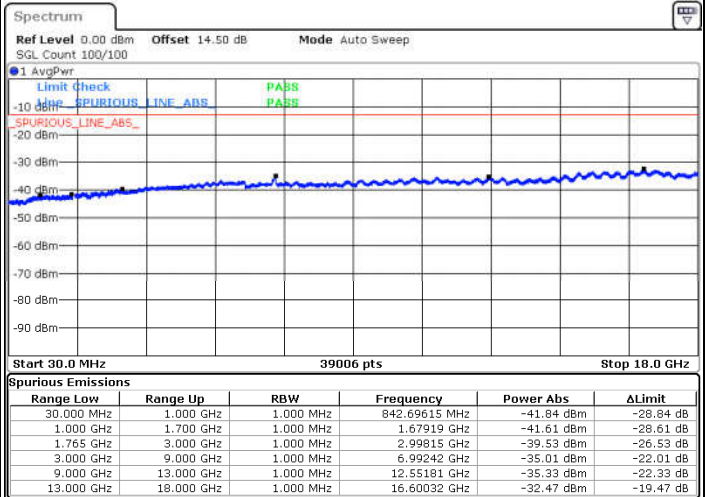
LTE Band 4 / 5MHz

Lowest Channel / QPSK



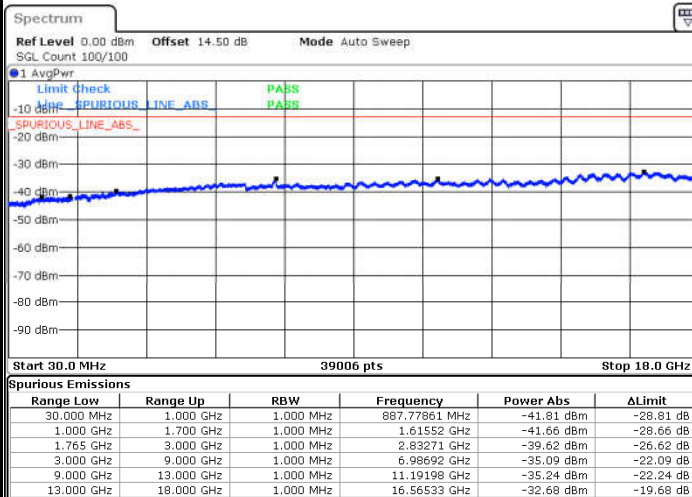
Date: 8.DEC.2017 18:58:17

Lowest Channel / 16QAM



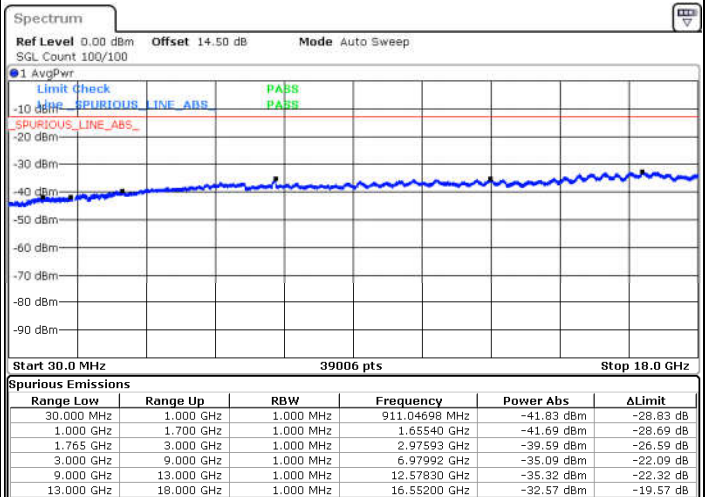
Date: 8.DEC.2017 18:59:13

Middle Channel / QPSK



Date: 8.DEC.2017 19:00:50

Middle Channel / 16QAM

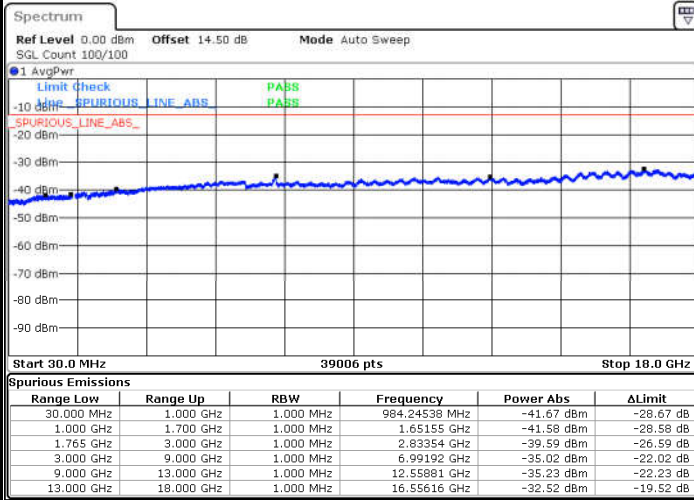


Date: 8.DEC.2017 19:01:46



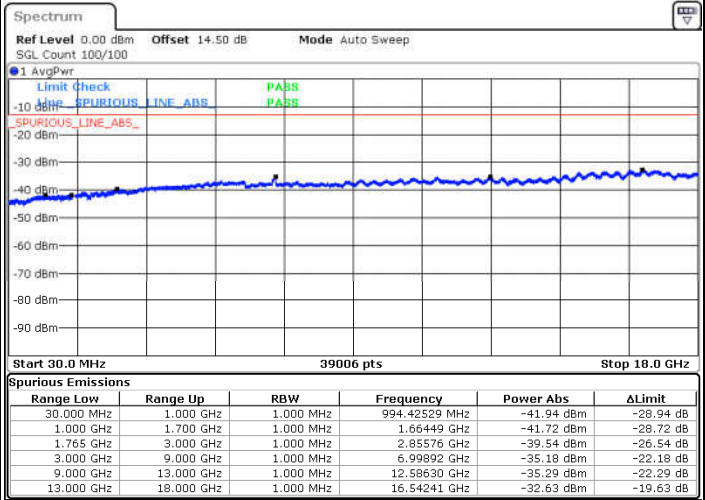
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 8.DEC.2017 19:08:00

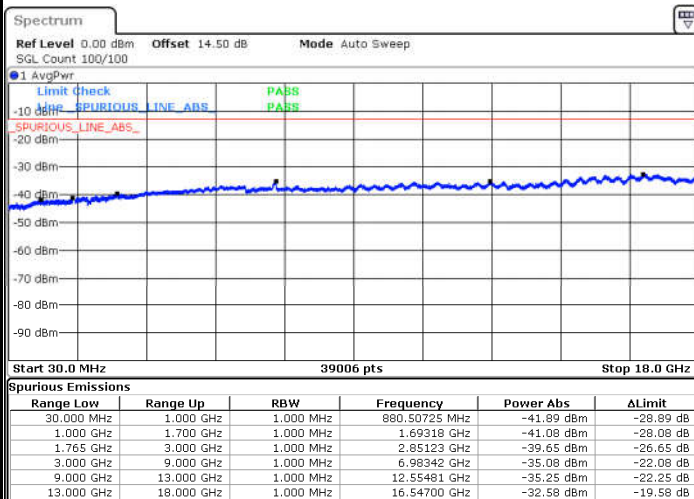
Highest Channel / 16QAM



Date: 8.DEC.2017 19:08:56

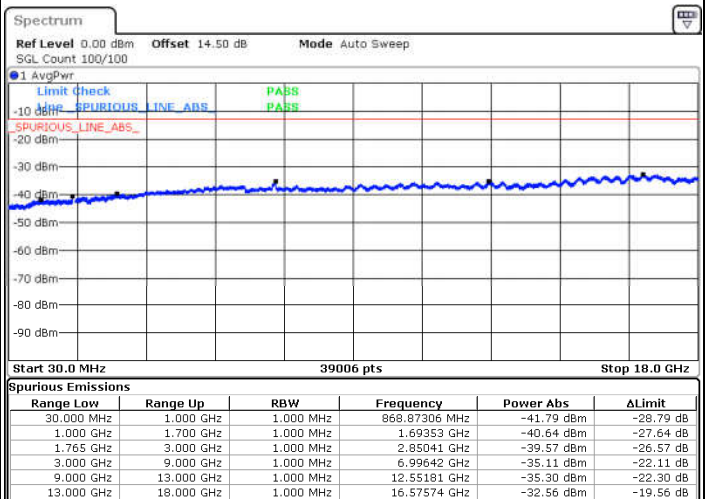
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 8.DEC.2017 19:15:11

Lowest Channel / 16QAM

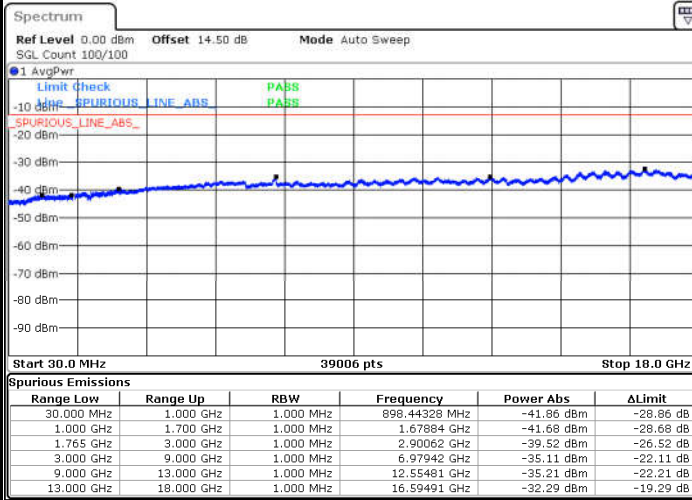


Date: 8.DEC.2017 19:16:07



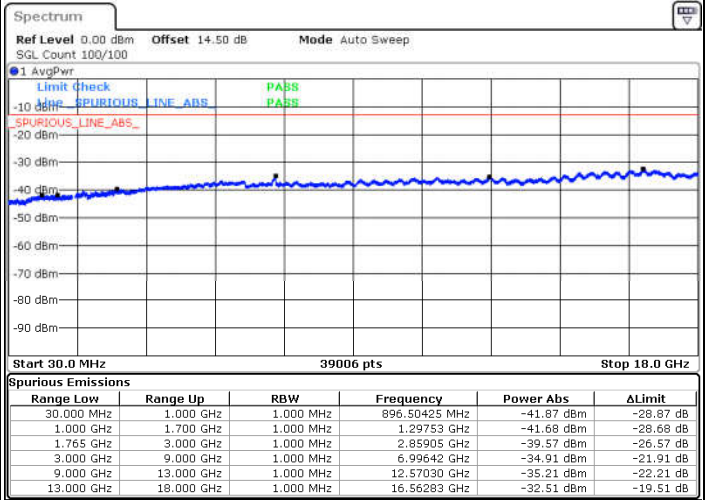
LTE Band 4 / 10MHz

Middle Channel / QPSK



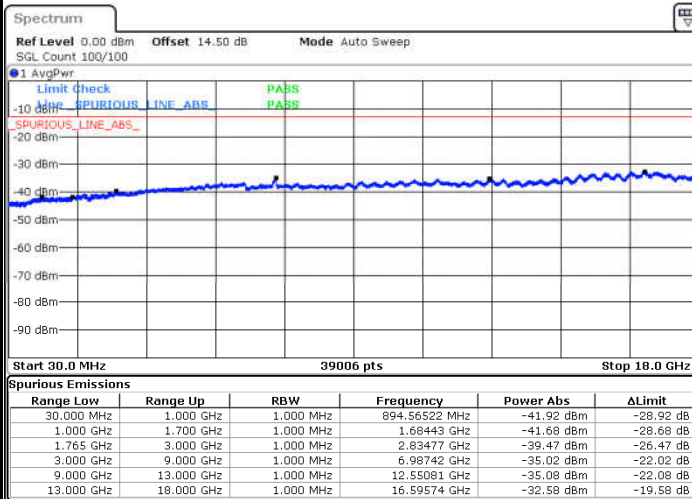
Date: 8.DEC.2017 19:17:44

Middle Channel / 16QAM



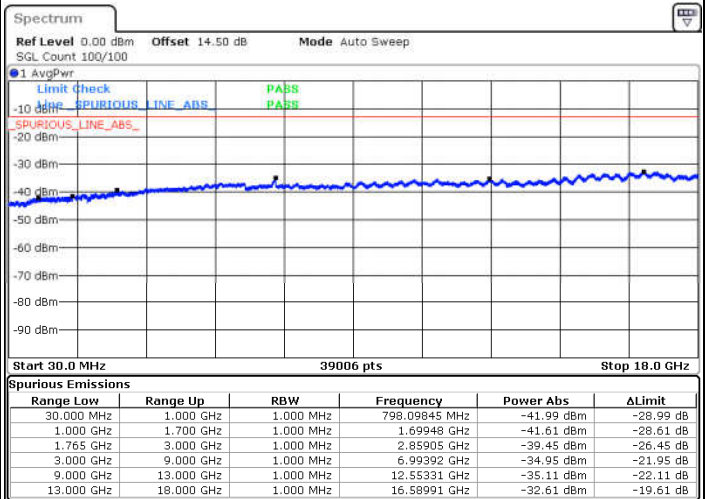
Date: 8.DEC.2017 19:18:40

Highest Channel / QPSK



Date: 8.DEC.2017 19:24:55

Highest Channel / 16QAM

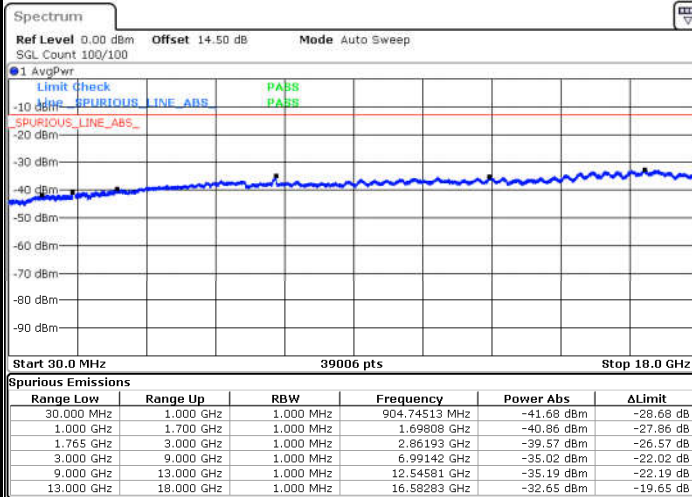


Date: 8.DEC.2017 19:25:51



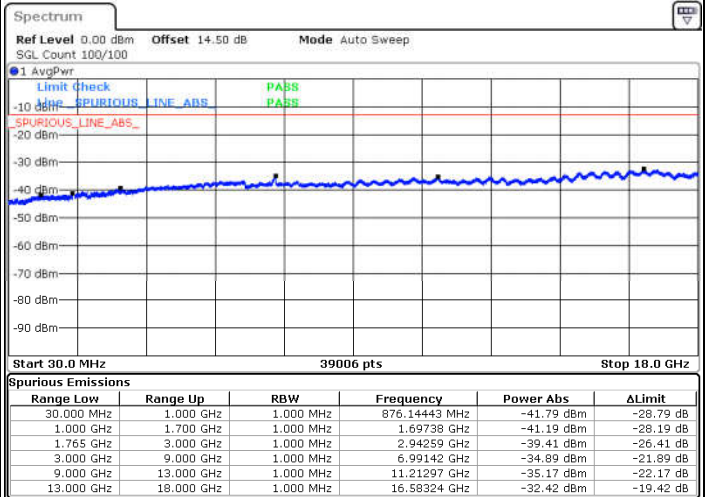
LTE Band 4 / 15MHz

Lowest Channel / QPSK



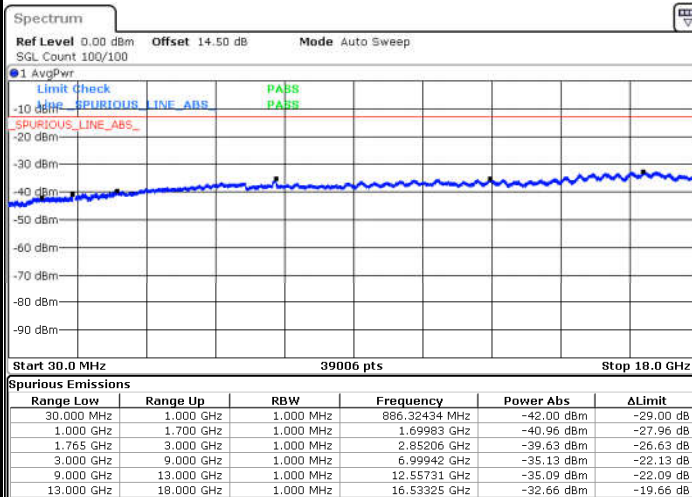
Date: 8.DEC.2017 19:32:06

Lowest Channel / 16QAM



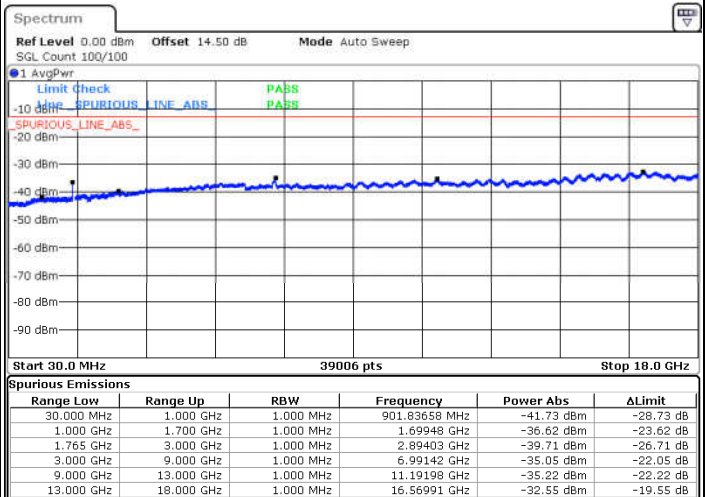
Date: 8.DEC.2017 19:33:01

Middle Channel / QPSK



Date: 8.DEC.2017 19:34:38

Middle Channel / 16QAM

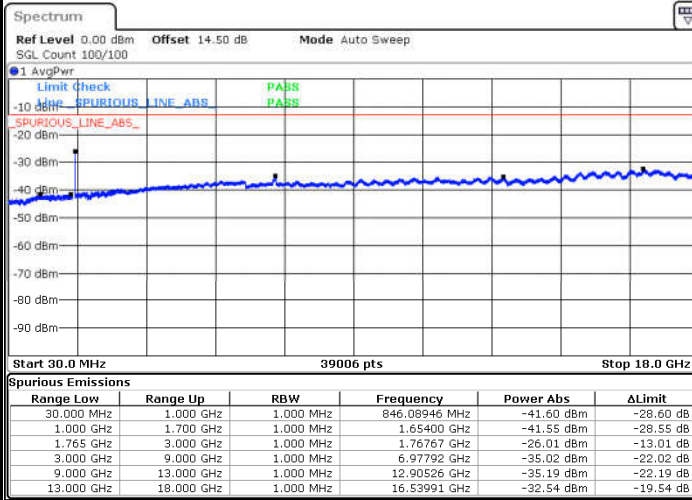


Date: 8.DEC.2017 19:35:34



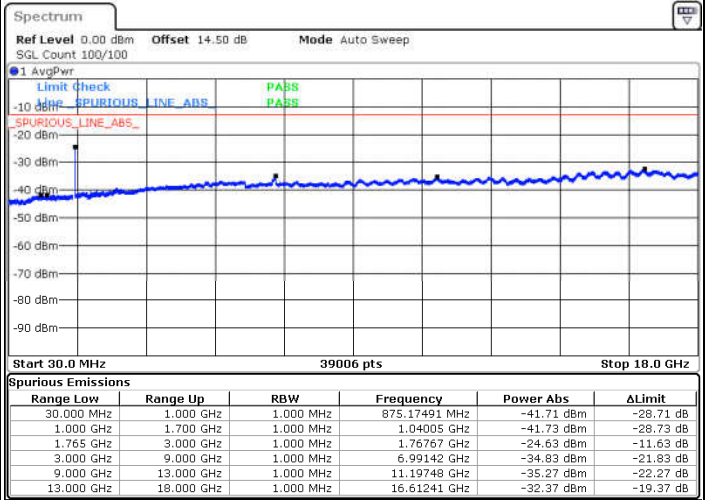
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 8.DEC.2017 19:41:48

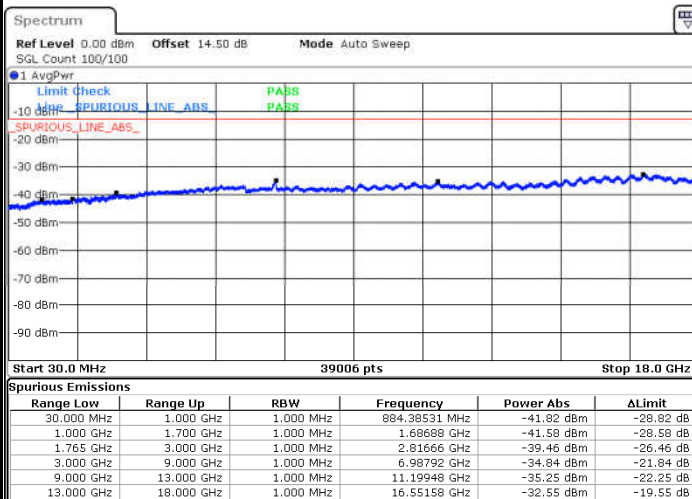
Highest Channel / 16QAM



Date: 8.DEC.2017 19:42:44

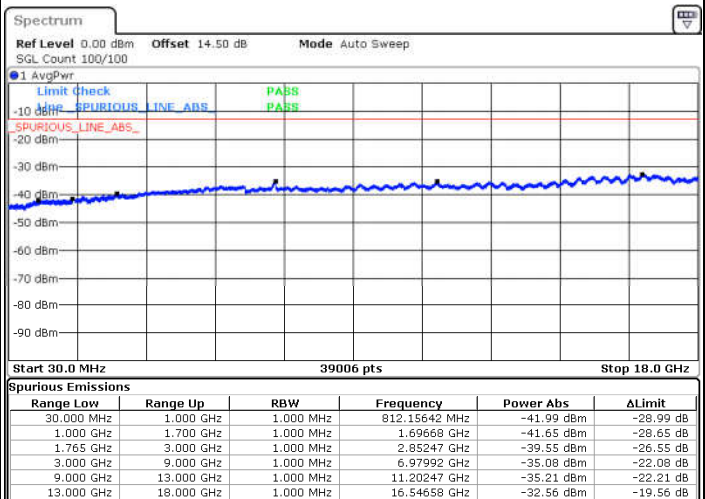
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 8.DEC.2017 19:48:58

Lowest Channel / 16QAM

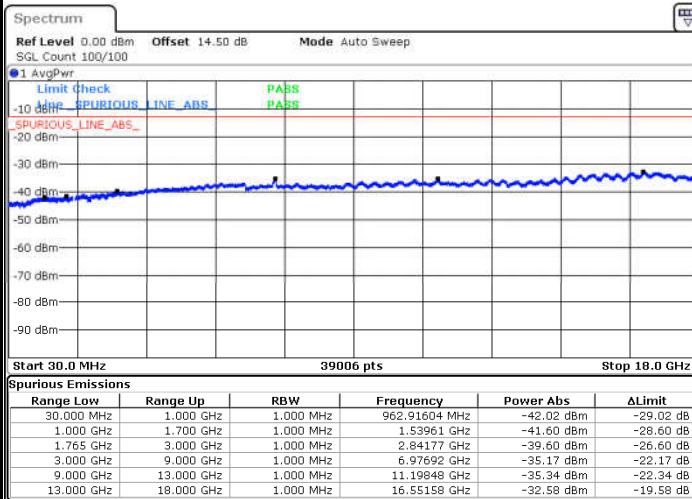


Date: 8.DEC.2017 19:49:54



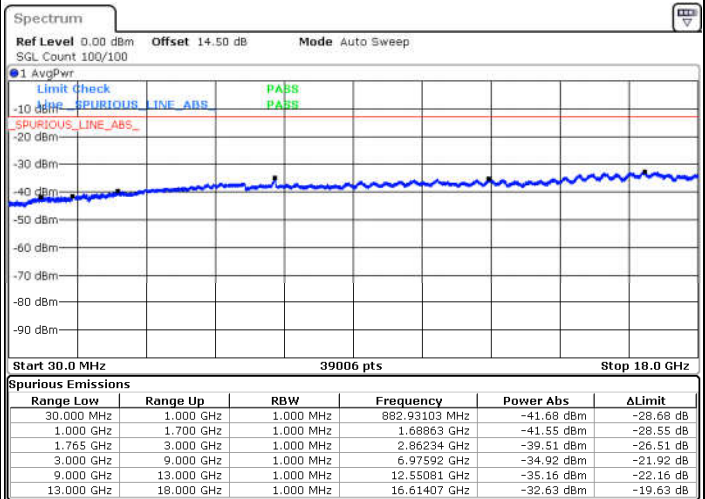
LTE Band 4 / 20MHz

Middle Channel / QPSK



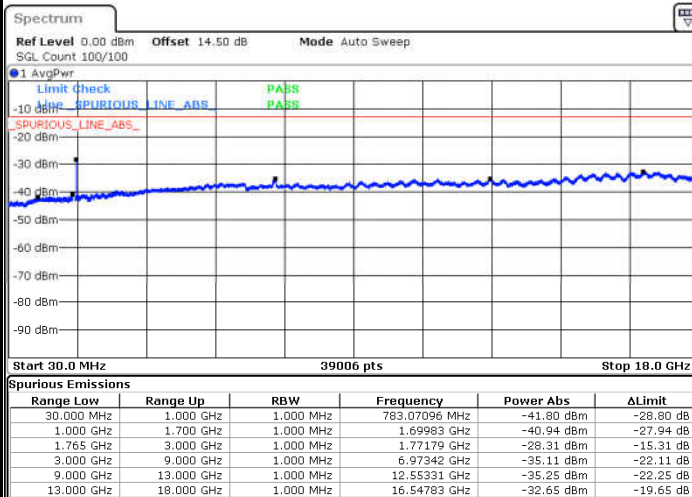
Date: 8.DEC.2017 19:51:30

Middle Channel / 16QAM



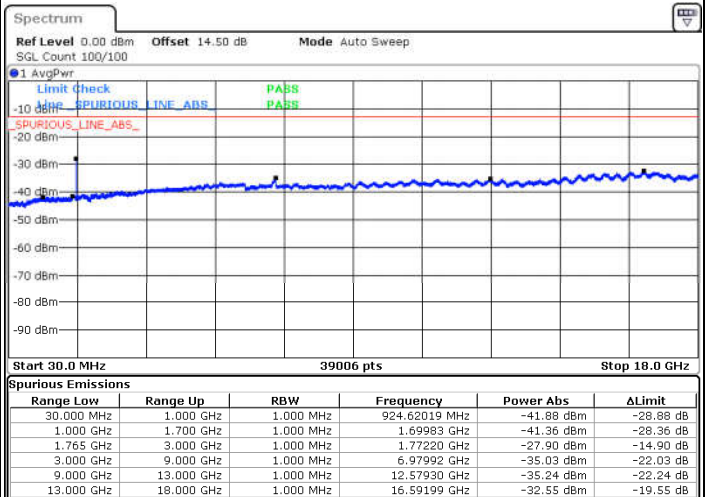
Date: 8.DEC.2017 19:52:26

Highest Channel / QPSK



Date: 8.DEC.2017 19:58:40

Highest Channel / 16QAM



Date: 8.DEC.2017 19:59:36

**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	0.0068	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0065	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0109	
-10	Normal Voltage	0.0071	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0058	
20	Maximum Voltage	0.0083	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.35 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 / 1.4MHz / QPSK / RB Size 1 Offset 0 with SIM 1									
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	3463.74	-52.73	-13	-39.73	-66.43	-60.70	4.63	12.60	H
	5195.61	-57.13	-13	-44.13	-75.06	-63.58	6.25	12.70	H
	6927.48	-59.69	-13	-46.69	-79.31	-64.46	8.23	13.00	H
	3463.74	-65.12	-13	-52.12	-76.53	-73.09	4.63	12.6	V
	5195.61	-65.23	-13	-52.23	-78.84	-71.68	6.25	12.7	V
	6927.48	-60.45	-13	-47.45	-79.57	-65.22	8.23	13	V

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

LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0 with SIM 1									
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	3462.48	-53.40	-13	-40.40	-67.10	-61.37	4.63	12.60	H
	5193.72	-57.14	-13	-44.14	-75.07	-63.59	6.25	12.70	H
	6924.96	-59.87	-13	-46.87	-79.49	-64.64	8.23	13.00	H
	3462.48	-65.25	-13	-52.25	-76.66	-73.22	4.63	12.6	V
	5193.72	-65.28	-13	-52.28	-78.89	-71.73	6.25	12.7	V
	6924.96	-60.51	-13	-47.51	-79.63	-65.28	8.23	13	V

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

LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0 with SIM 1									
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	3460.68	-53.83	-13	-40.83	-67.53	-61.80	4.63	12.60	H
	5191.02	-57.50	-13	-44.50	-75.43	-63.95	6.25	12.70	H
	6921.36	-59.95	-13	-46.95	-79.57	-64.72	8.23	13.00	H
	3460.68	-64.75	-13	-51.75	-76.16	-72.72	4.63	12.6	V
	5191.02	-65.42	-13	-52.42	-79.03	-71.87	6.25	12.7	V
	6921.36	-60.38	-13	-47.38	-79.5	-65.15	8.23	13	V

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



LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0 with SIM 1									
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	3456.18	-54.75	-13	-41.75	-68.45	-62.72	4.63	12.60	H
	5184.27	-57.88	-13	-44.88	-75.81	-64.33	6.25	12.70	H
	6912.36	-59.80	-13	-46.80	-79.42	-64.57	8.23	13.00	H
	3456.18	-65.00	-13	-52.00	-76.41	-72.97	4.63	12.6	V
	5184.27	-63.23	-13	-50.23	-76.84	-69.68	6.25	12.7	V
	6912.36	-60.49	-13	-47.49	-79.61	-65.26	8.23	13	V

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

LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0 with SIM 1									
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	3451.68	-53.71	-13	-40.71	-67.41	-61.68	4.63	12.60	H
	5177.52	-57.49	-13	-44.49	-75.42	-63.94	6.25	12.70	H
	6903.36	-59.88	-13	-46.88	-79.50	-64.65	8.23	13.00	H
	3451.68	-64.76	-13	-51.76	-76.17	-72.73	4.63	12.6	V
	5177.52	-64.50	-13	-51.50	-78.11	-70.95	6.25	12.7	V
	6903.36	-60.23	-13	-47.23	-79.35	-65.00	8.23	13	V

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

LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0 with SIM 1									
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	3447.18	-53.72	-13	-40.72	-67.42	-61.69	4.63	12.60	H
	5170.77	-55.12	-13	-42.12	-73.05	-61.57	6.25	12.70	H
	6894.36	-60.06	-13	-47.06	-79.68	-64.83	8.23	13.00	H
	3447.18	-63.17	-13	-50.17	-74.58	-71.14	4.63	12.6	V
	5170.77	-64.34	-13	-51.34	-77.95	-70.79	6.25	12.7	V
	6894.36	-60.57	-13	-47.57	-79.69	-65.34	8.23	13	V

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



LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0 with SIM 2									
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	3463.74	-51.74	-13	-38.74	-65.44	-59.71	4.63	12.60	H
	5195.61	-52.92	-13	-39.92	-70.85	-59.37	6.25	12.70	H
	6927.48	-60.17	-13	-47.17	-79.79	-64.94	8.23	13.00	H
	3463.74	-64.79	-13	-51.79	-76.2	-72.76	4.63	12.6	V
	5195.61	-64.73	-13	-51.73	-78.34	-71.18	6.25	12.7	V
	6927.48	-60.26	-13	-47.26	-79.38	-65.03	8.23	13	V

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