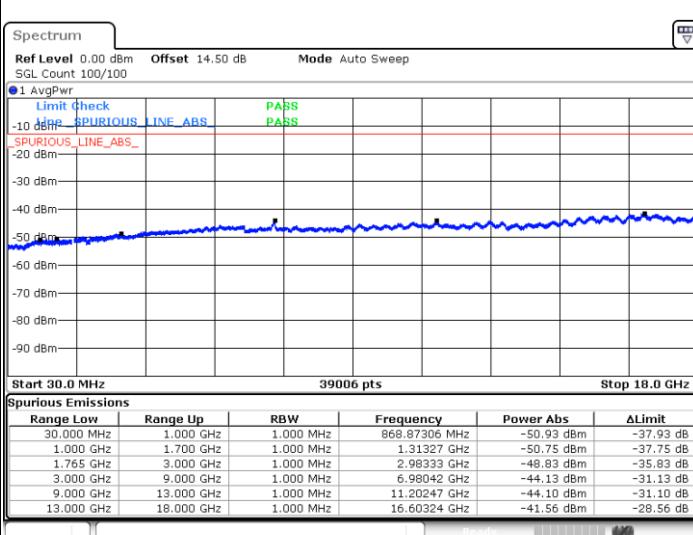
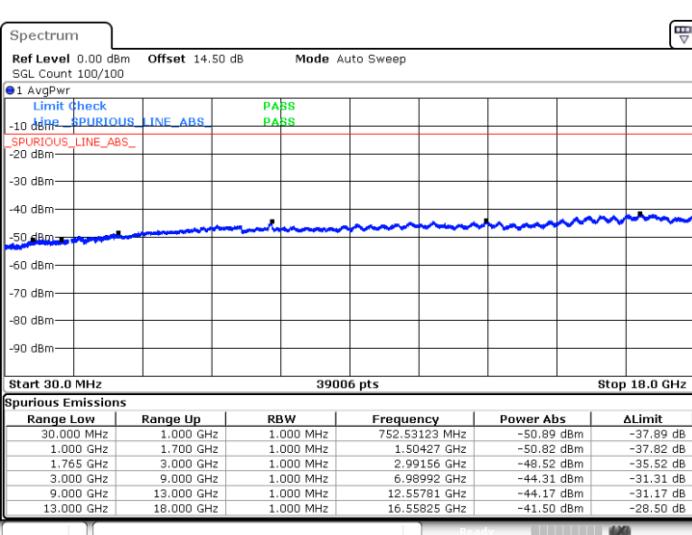




LTE Band 4 / 5MHz

Highest Channel / QPSK

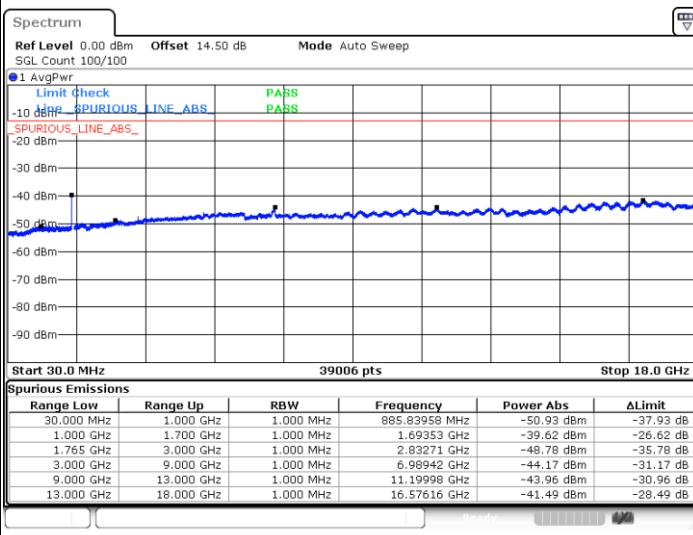
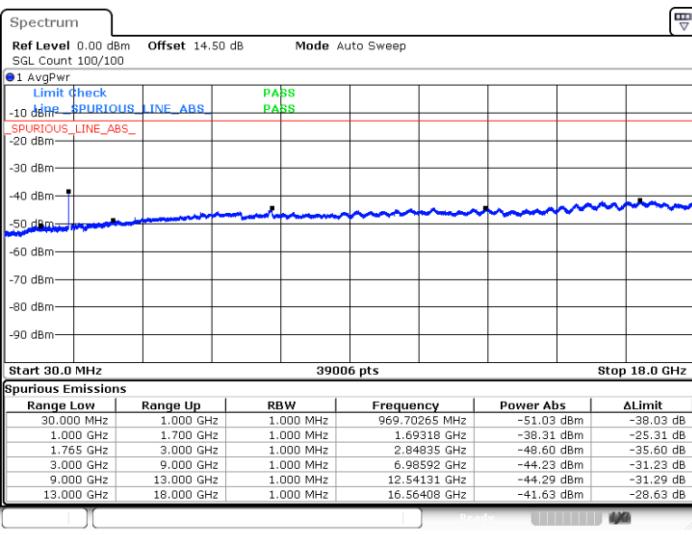
Highest Channel / 16QAM

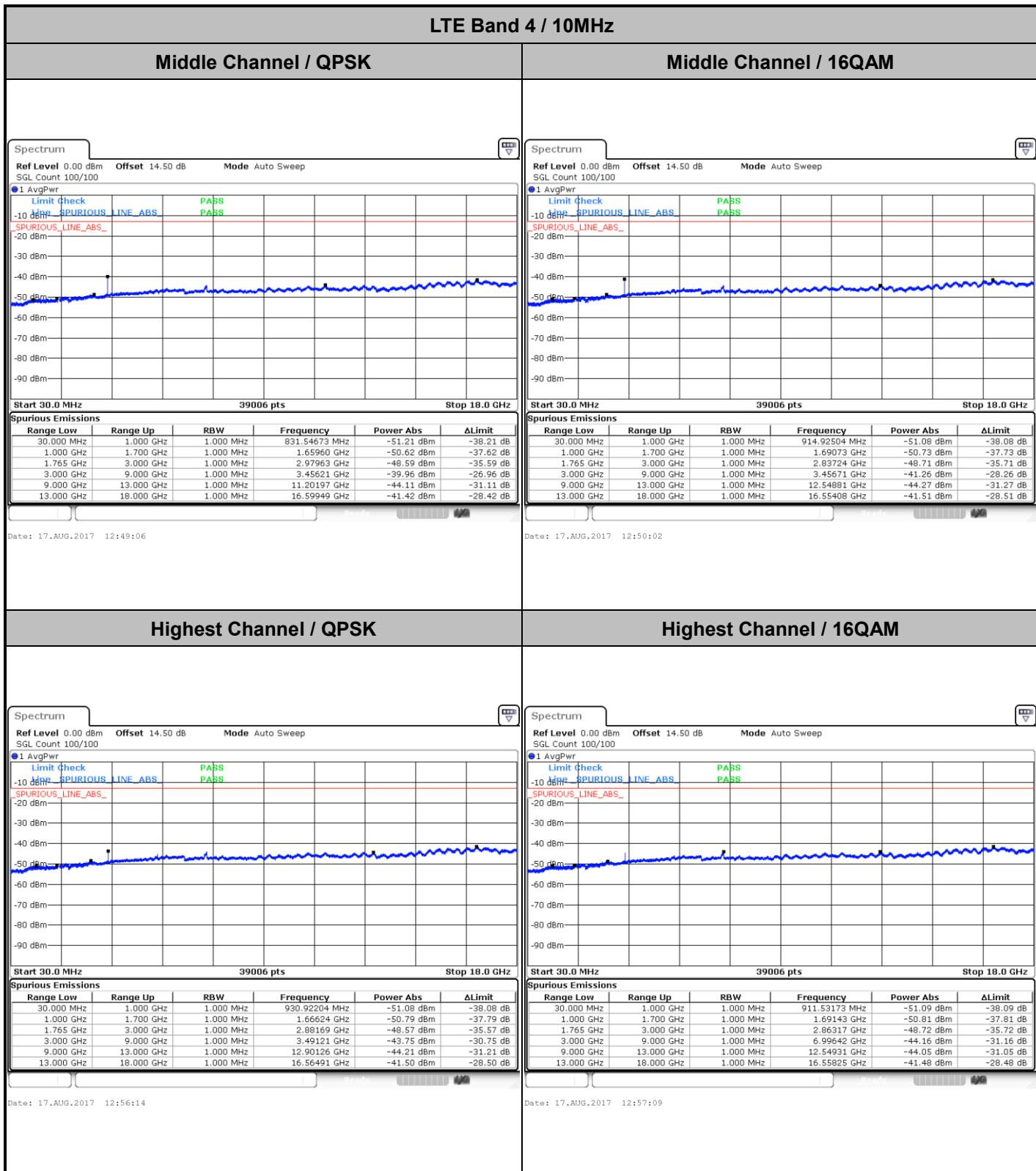


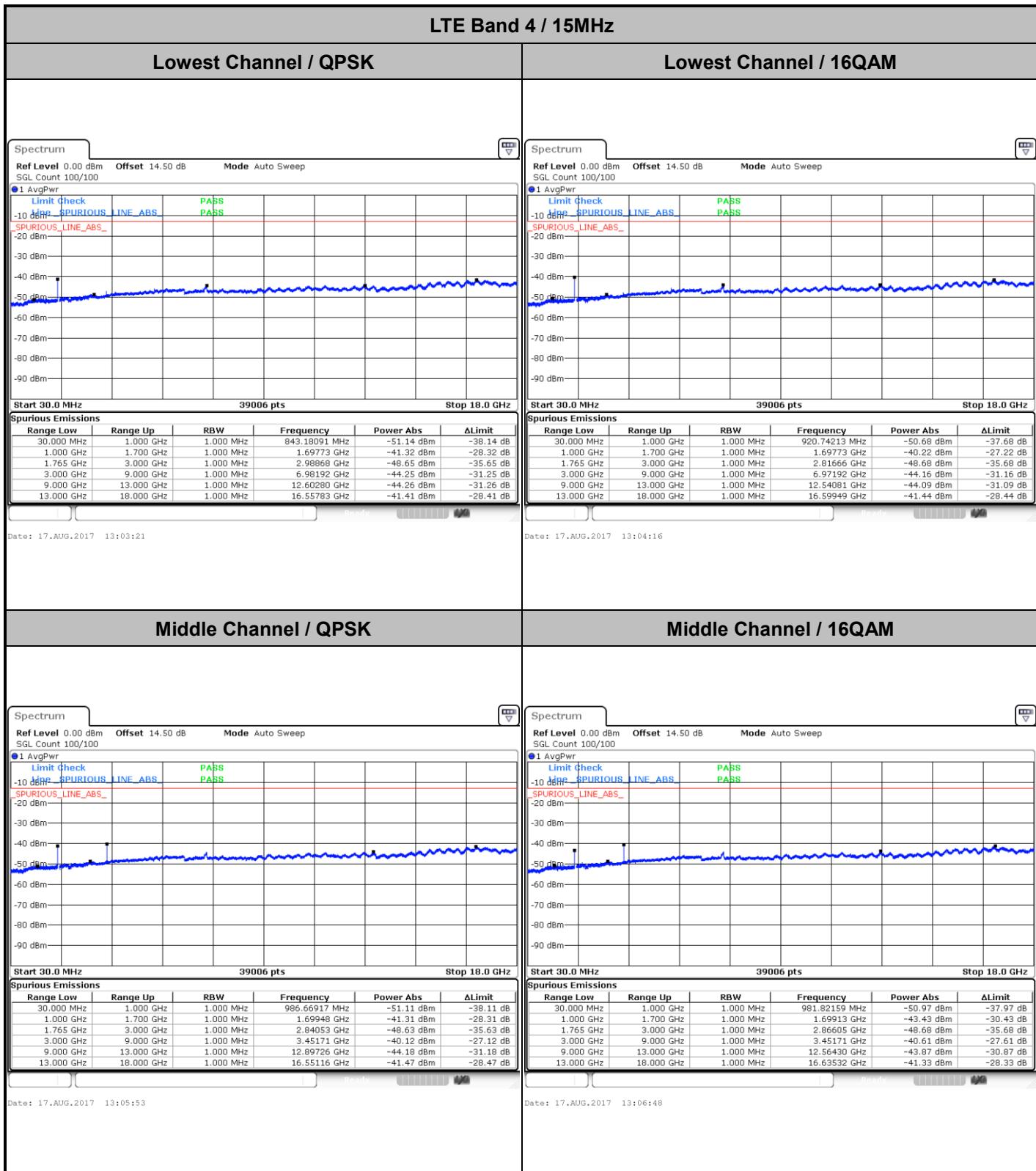
LTE Band 4 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM





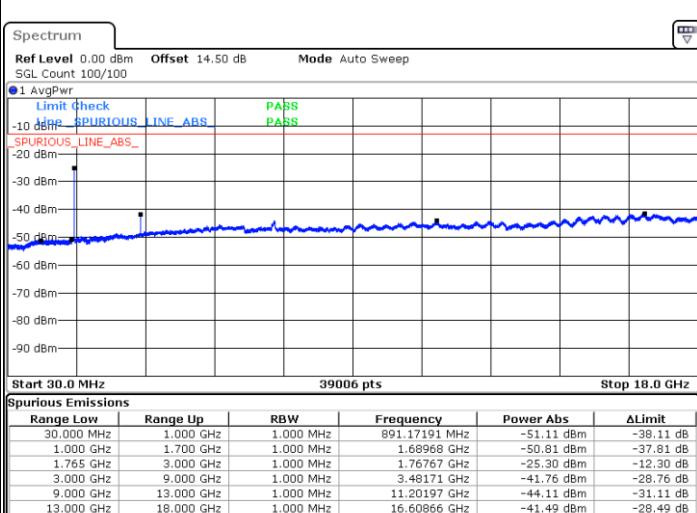
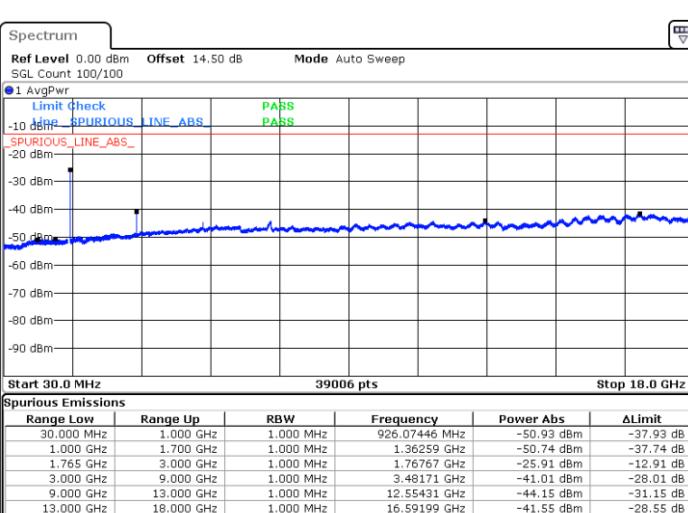




LTE Band 4 / 15MHz

Highest Channel / QPSK

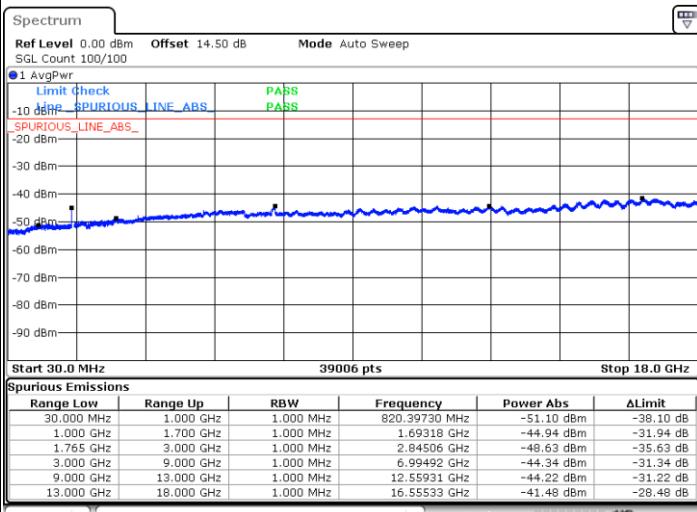
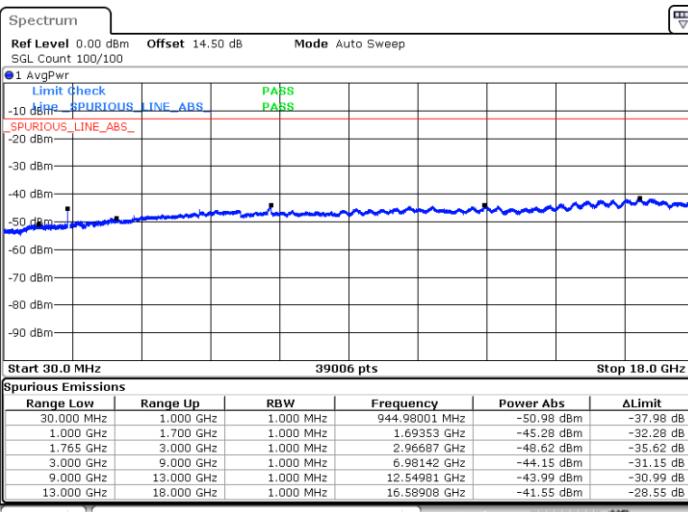
Highest Channel / 16QAM

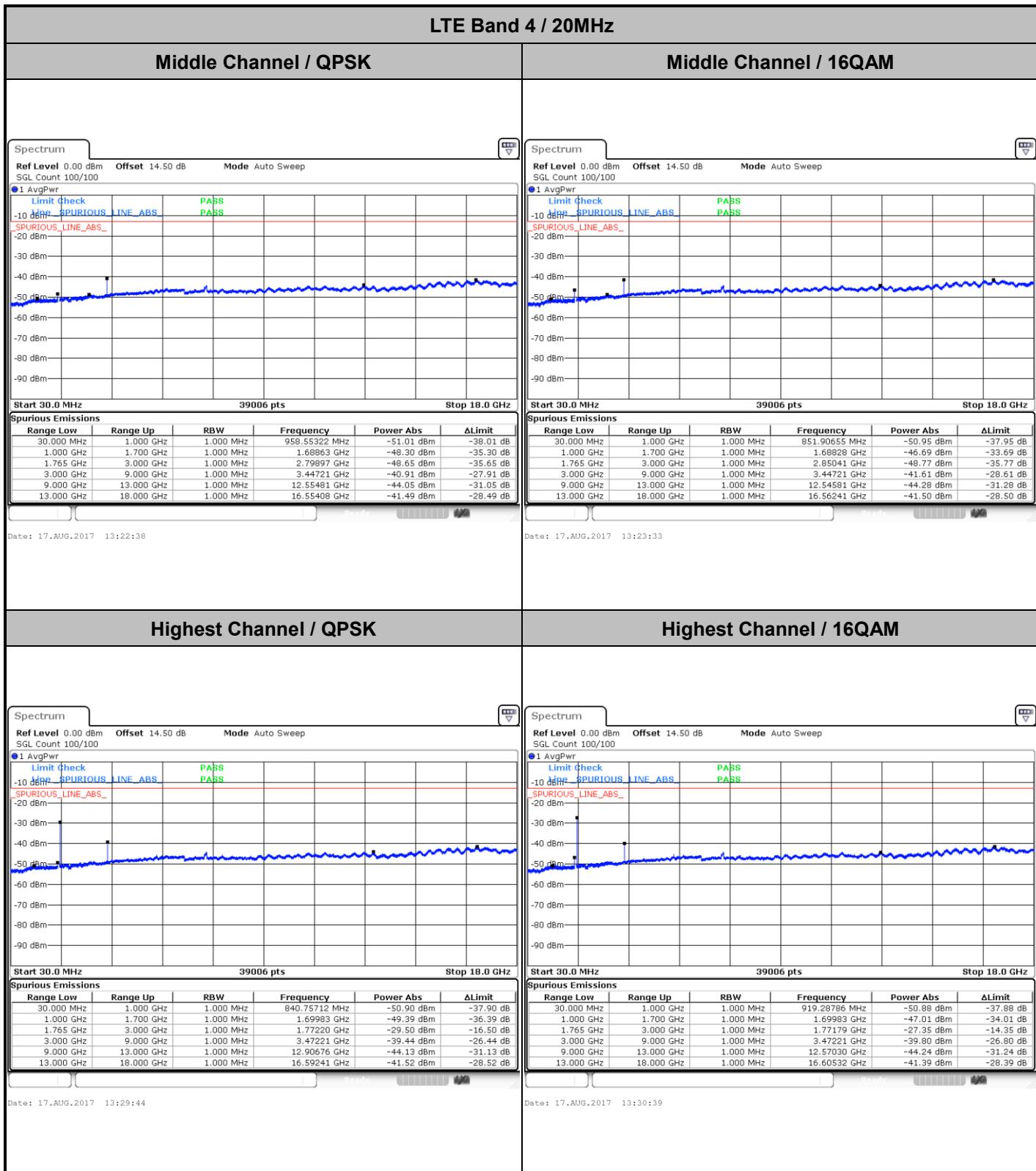


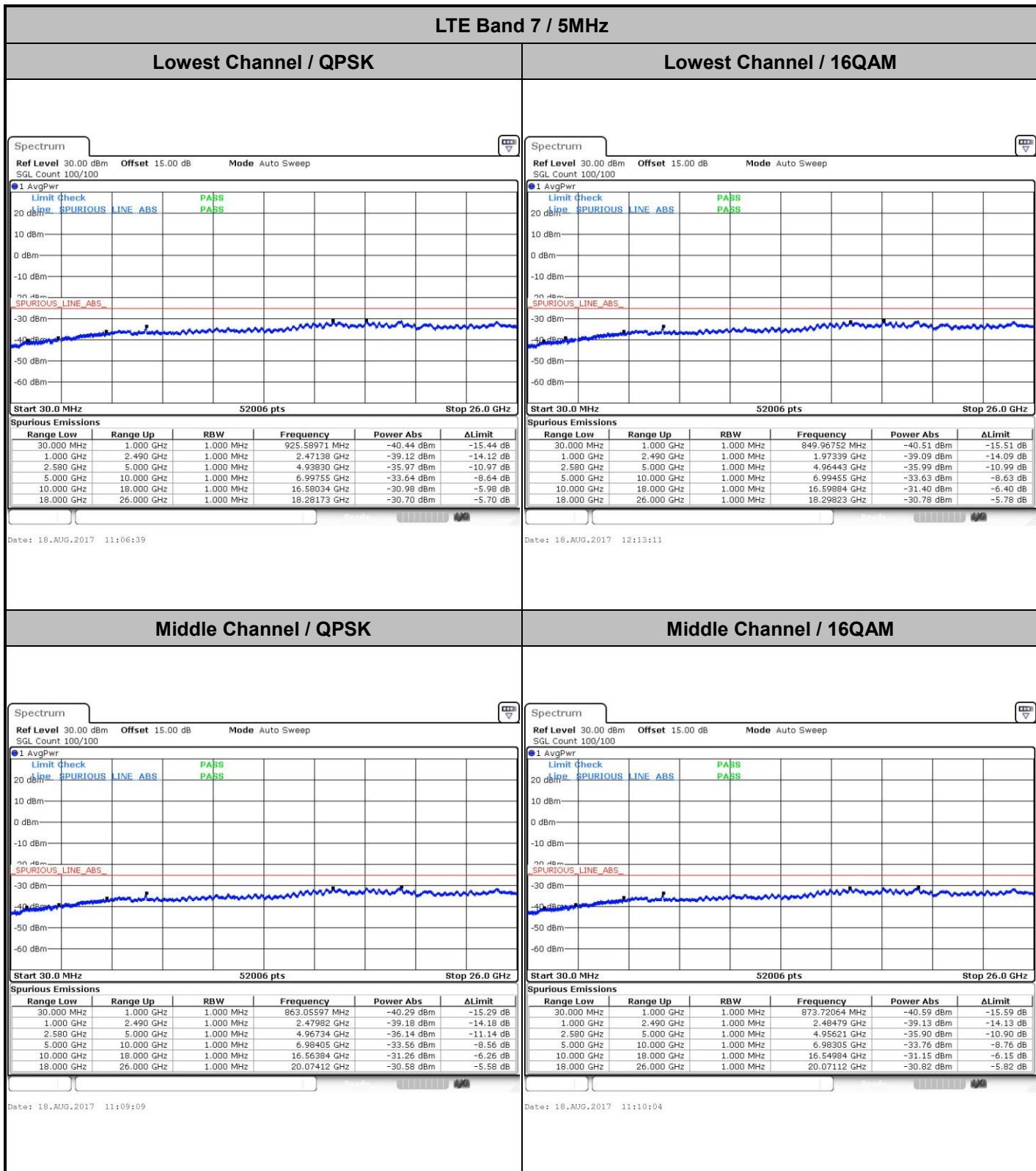
LTE Band 4 / 20MHz

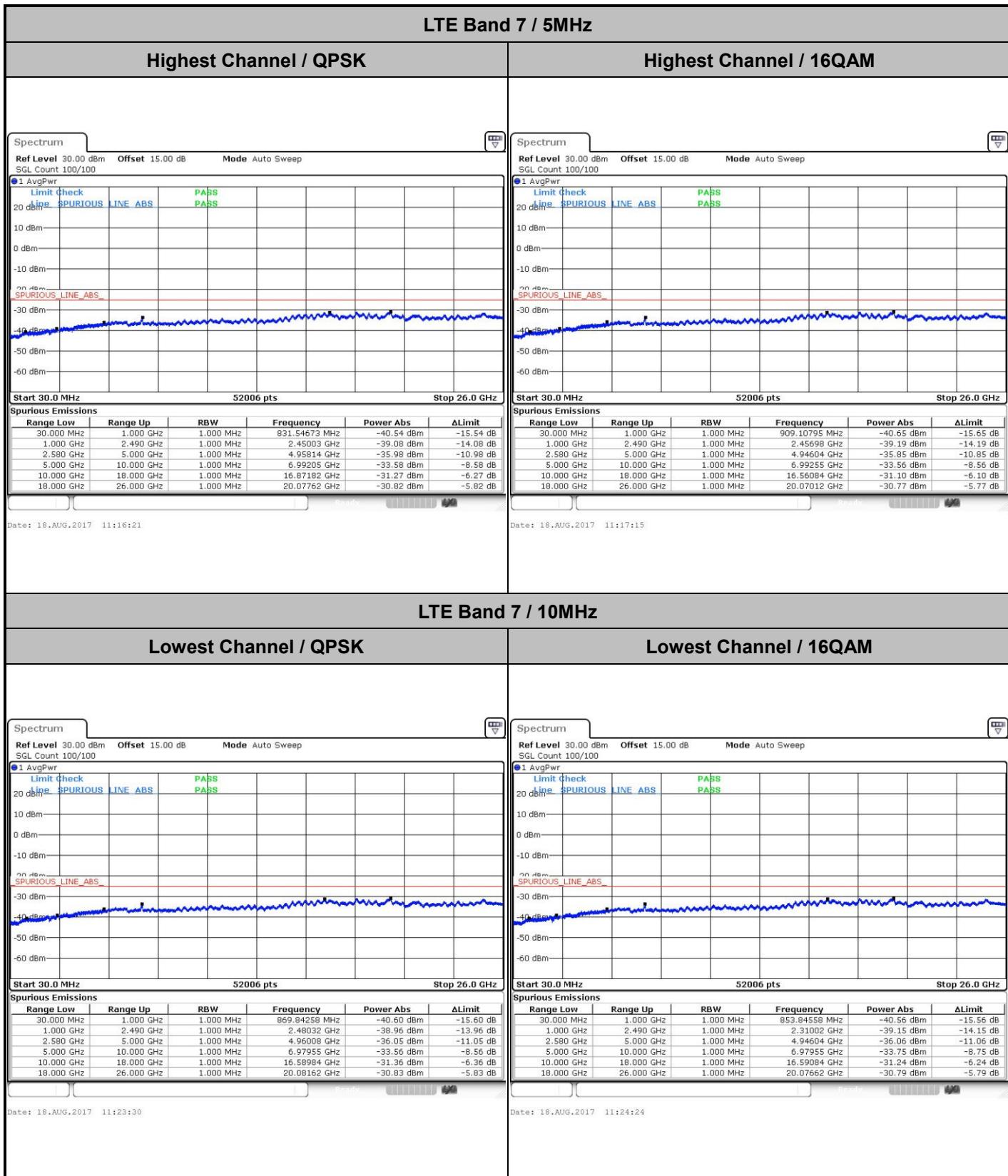
Lowest Channel / QPSK

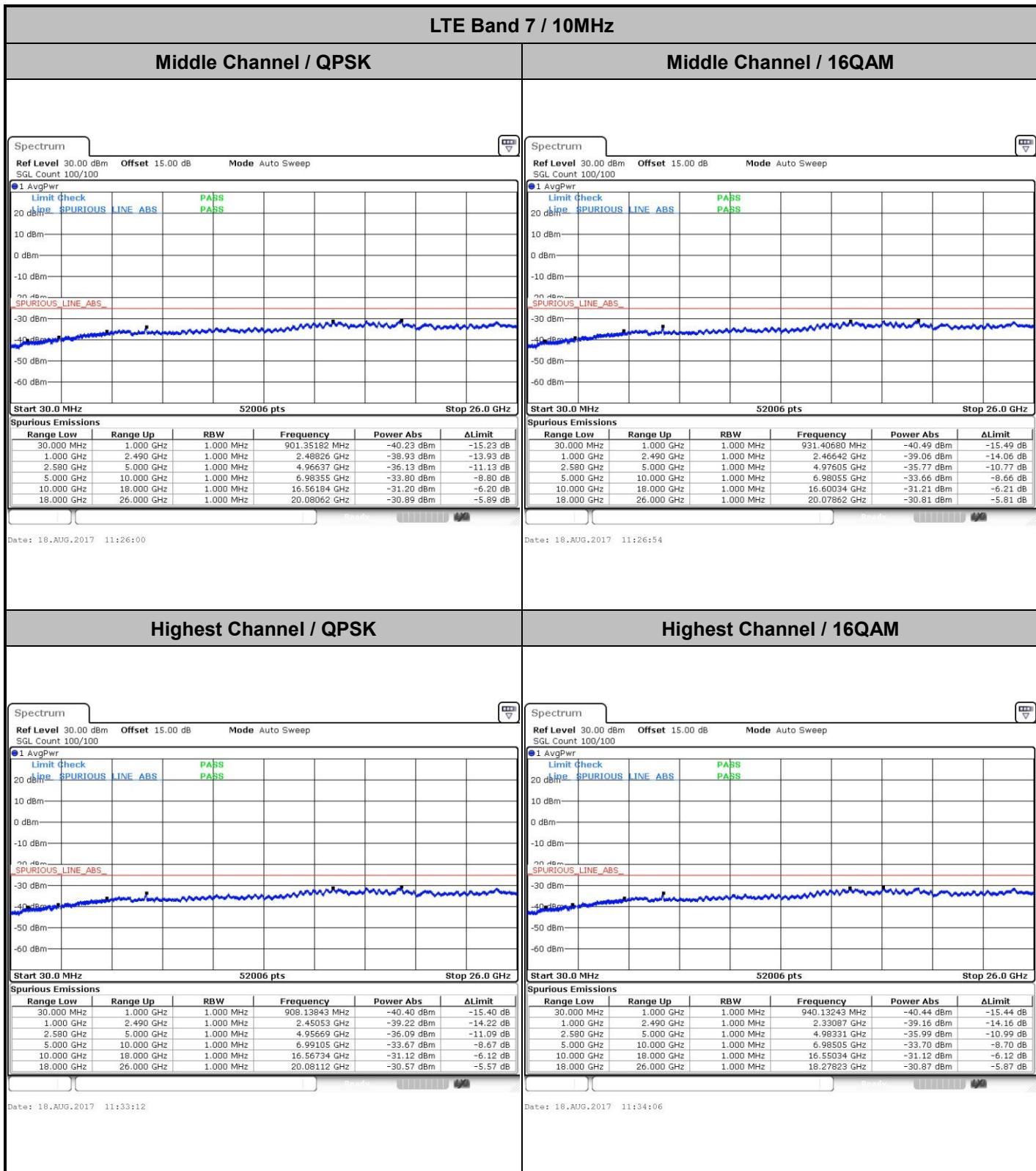
Lowest Channel / 16QAM

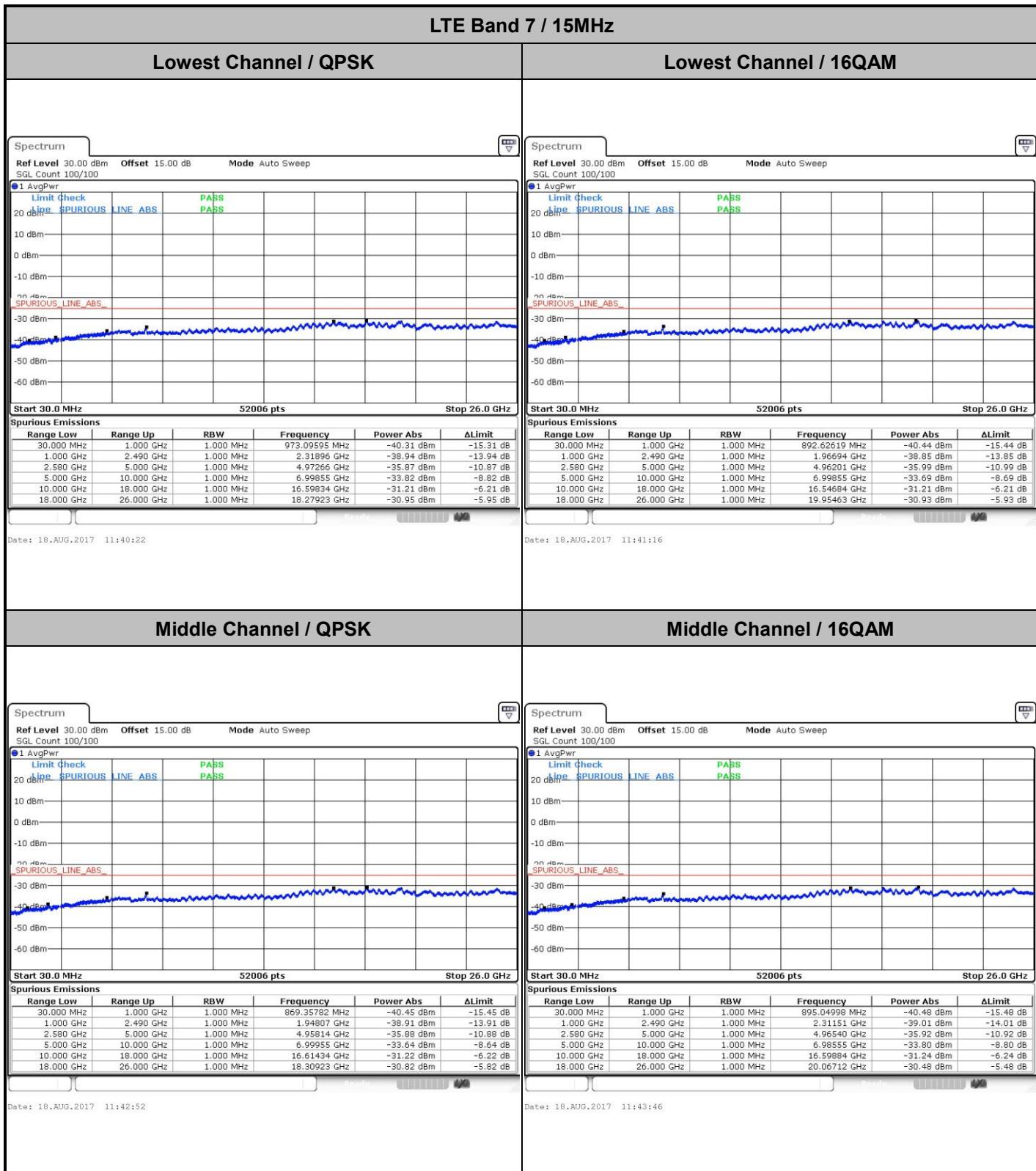


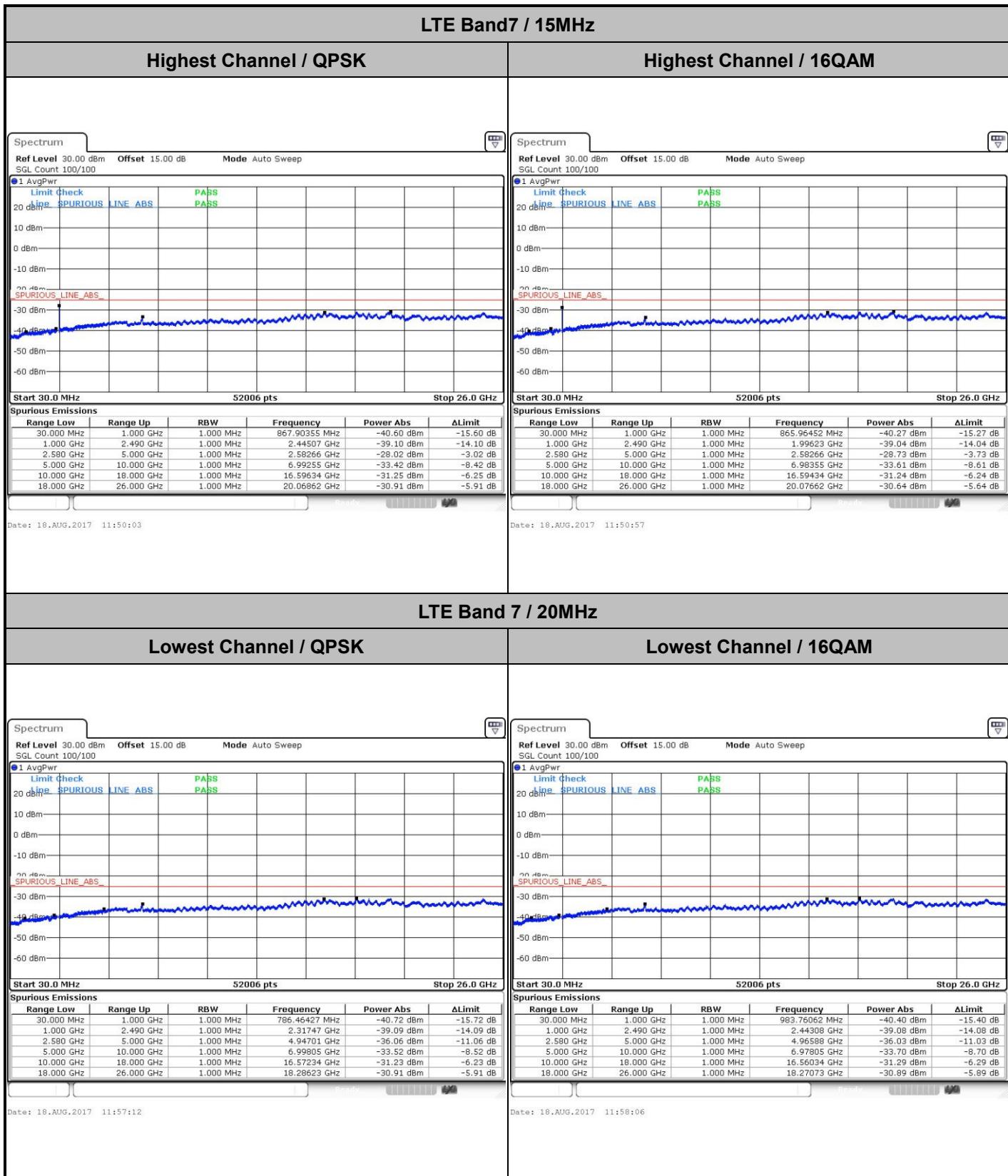


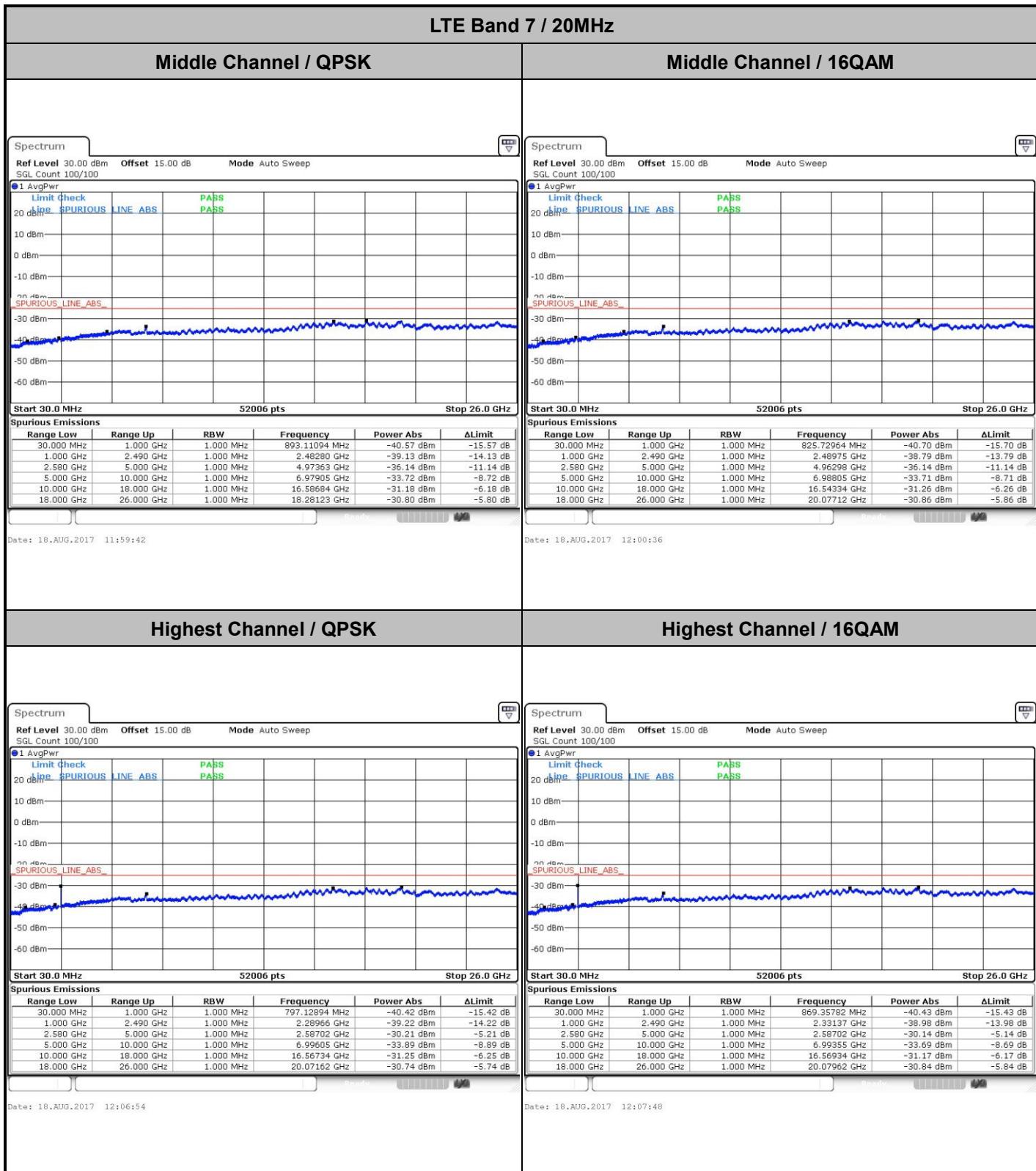














Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0027	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage =3.7V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0020	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 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 2 / 1.4MHz / 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	3758.92	-45.37	-13.00	-32.37	-60.65	-51.41	6.56	12.60	H
	5638.38	-40.36	-13.00	-27.36	-59.71	-45.46	8.00	13.10	H
	7517.84	-43.75	-13.00	-30.75	-67.45	-45.48	9.57	11.30	H
	9396.85	-50.36	-13.00	-37.36	-77.84	-51.81	10.45	11.90	H
	11276.22	-53.33	-13.00	-40.33	-80.79	-54.54	11.99	13.20	H
	3758.92	-45.75	-13.00	-32.75	-61.30	-51.79	6.56	12.60	V
	5638.38	-41.59	-13.00	-28.59	-61.51	-46.69	8.00	13.10	V
	7517.84	-44.35	-13.00	-31.35	-68.08	-46.08	9.57	11.30	V
	9396.85	-49.97	-13.00	-36.97	-76.87	-51.42	10.45	11.90	V
	11276.22	-49.82	-13.00	-36.82	-77.78	-51.03	11.99	13.20	V

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

LTE Band 2 / 3MHz / 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	3757.48	-46.75	-13.00	-33.75	-62.03	-52.79	6.56	12.60	H
	5636.22	-40.97	-13.00	-27.97	-60.32	-46.07	8.00	13.10	H
	7514.96	-44.68	-13.00	-31.68	-68.41	-46.41	9.57	11.30	H
	9393.25	-51.50	-13.00	-38.50	-78.98	-52.95	10.45	11.90	H
	11271.90	-52.84	-13.00	-39.84	-80.30	-54.05	11.99	13.20	H
	3757.48	-48.21	-13.00	-35.21	-63.76	-54.25	6.56	12.60	V
	5636.22	-41.13	-13.00	-28.13	-61.05	-46.23	8.00	13.10	V
	7514.96	-45.30	-13.00	-32.30	-69.06	-47.03	9.57	11.30	V
	9393.25	-50.11	-13.00	-37.11	-77.01	-51.56	10.45	11.90	V
	11271.90	-49.47	-13.00	-36.47	-77.43	-50.68	11.99	13.20	V

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



LTE Band 2 / 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	3755.68	-46.38	-13.00	-33.38	-61.66	-52.42	6.56	12.60	H
	5633.52	-40.11	-13.00	-27.11	-59.46	-45.21	8.00	13.10	H
	7511.36	-44.38	-13.00	-31.38	-68.11	-46.11	9.57	11.30	H
	9388.75	-51.14	-13.00	-38.14	-78.60	-52.59	10.45	11.90	H
	11266.50	-53.30	-13.00	-40.30	-80.76	-54.51	11.99	13.20	H
	3755.68	-46.50	-13.00	-33.50	-62.05	-52.54	6.56	12.60	V
	5633.52	-42.99	-13.00	-29.99	-62.91	-48.09	8.00	13.10	V
	7511.36	-44.35	-13.00	-31.35	-68.11	-46.08	9.57	11.30	V
	9388.75	-49.70	-13.00	-36.70	-76.56	-51.15	10.45	11.90	V
	11266.50	-50.06	-13.00	-37.06	-78.02	-51.27	11.99	13.20	V

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

LTE Band 2 / 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	3751.18	-46.31	-13.00	-33.31	-61.59	-52.35	6.56	12.60	H
	5626.77	-39.82	-13.00	-26.82	-59.24	-44.92	8.00	13.10	H
	7502.00	-43.48	-13.00	-30.48	-67.32	-45.21	9.57	11.30	H
	9377.50	-50.23	-13.00	-37.23	-77.69	-51.68	10.45	11.90	H
	11253.00	-52.35	-13.00	-39.35	-79.73	-53.56	11.99	13.20	H
	3751.18	-46.50	-13.00	-33.50	-62.05	-52.54	6.56	12.60	V
	5626.77	-41.50	-13.00	-28.50	-61.50	-46.60	8.00	13.10	V
	7502.00	-44.20	-13.00	-31.20	-68.05	-45.93	9.57	11.30	V
	9377.50	-48.67	-13.00	-35.67	-75.53	-50.12	10.45	11.90	V
	11253.00	-49.97	-13.00	-36.97	-77.84	-51.18	11.99	13.20	V

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



LTE Band 2 / 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	3746.68	-47.10	-13.00	-34.10	-62.38	-53.14	6.56	12.60	H
	5620.02	-40.15	-13.00	-27.15	-59.57	-45.25	8.00	13.10	H
	7493.36	-43.09	-13.00	-30.09	-66.93	-44.82	9.57	11.30	H
	9366.25	-51.41	-13.00	-38.41	-78.82	-52.86	10.45	11.90	H
	11239.50	-52.76	-13.00	-39.76	-80.05	-53.97	11.99	13.20	H
	3746.68	-47.99	-13.00	-34.99	-63.54	-54.03	6.56	12.60	V
	5620.02	-42.09	-13.00	-29.09	-62.09	-47.19	8.00	13.10	V
	7493.36	-43.11	-13.00	-30.11	-66.96	-44.84	9.57	11.30	V
	9366.25	-49.54	-13.00	-36.54	-76.34	-50.99	10.45	11.90	V
	11239.50	-49.33	-13.00	-36.33	-77.12	-50.54	11.99	13.20	V

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

LTE Band 2 / 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	3742.18	-45.91	-13.00	-32.91	-61.17	-51.95	6.56	12.60	H
	5613.27	-40.81	-13.00	-27.81	-60.30	-45.91	8.00	13.10	H
	7484.36	-44.48	-13.00	-31.48	-68.43	-46.21	9.57	11.30	H
	9355.00	-51.46	-13.00	-38.46	-78.85	-52.91	10.45	11.90	H
	11226.00	-53.35	-13.00	-40.35	-80.64	-54.56	11.99	13.20	H
	3742.18	-47.66	-13.00	-34.66	-63.21	-53.70	6.56	12.60	V
	5613.27	-42.06	-13.00	-29.06	-62.13	-47.16	8.00	13.10	V
	7484.36	-44.03	-13.00	-31.03	-67.97	-45.76	9.57	11.30	V
	9355.00	-50.61	-13.00	-37.61	-77.36	-52.06	10.45	11.90	V
	11226.00	-49.54	-13.00	-36.54	-77.33	-50.75	11.99	13.20	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									
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	-50.91	-13.00	-37.91	-64.73	-57.33	6.18	12.60	H
	5195.61	-45.06	-13.00	-32.06	-64.39	-50.02	7.74	12.70	H
	6927.48	-35.31	-13.00	-22.31	-57.52	-38.01	9.00	11.70	H
	8659.35	-52.49	-13.00	-39.49	-77.85	-54.41	9.98	11.90	H
	3463.74	-50.32	-13.00	-37.32	-64.50	-56.74	6.18	12.60	V
	5195.61	-48.28	-13.00	-35.28	-68.28	-53.24	7.74	12.70	V
	6927.48	-36.40	-13.00	-23.40	-59.14	-39.10	9.00	11.70	V
	8659.35	-58.18	-13.00	-45.18	-82.93	-60.10	9.98	11.90	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									
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	-49.60	-13.00	-36.60	-63.42	-56.02	6.18	12.60	H
	5193.72	-46.50	-13.00	-33.50	-65.84	-51.46	7.74	12.70	H
	6924.96	-34.15	-13.00	-21.15	-56.36	-36.85	9.00	11.70	H
	8655.75	-52.61	-13.00	-39.61	-77.90	-54.53	9.98	11.90	H
	3462.48	-48.58	-13.00	-35.58	-62.76	-55.00	6.18	12.60	V
	5193.72	-48.26	-13.00	-35.26	-68.27	-53.22	7.74	12.70	V
	6924.96	-38.30	-13.00	-25.30	-61.04	-41.00	9.00	11.70	V
	8655.75	-57.69	-13.00	-44.69	-82.42	-59.61	9.98	11.90	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									
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	-49.56	-13.00	-36.56	-63.38	-55.98	6.18	12.60	H
	5191.02	-47.16	-13.00	-34.16	-66.50	-52.12	7.74	12.70	H
	6921.36	-35.59	-13.00	-22.59	-57.66	-38.29	9.00	11.70	H
	8651.25	-52.23	-13.00	-39.23	-77.52	-54.15	9.98	11.90	H
	3460.68	-48.57	-13.00	-35.57	-62.75	-54.99	6.18	12.60	V
	5191.02	-48.98	-13.00	-35.98	-68.99	-53.94	7.74	12.70	V
	6921.36	-36.22	-13.00	-23.22	-58.84	-38.92	9.00	11.70	V
	8651.25	-57.80	-13.00	-44.80	-82.53	-59.72	9.98	11.90	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									
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	-49.13	-13.00	-36.13	-62.79	-55.55	6.18	12.60	H
	5184.27	-45.71	-13.00	-32.71	-65.05	-50.67	7.74	12.70	H
	6912.36	-35.50	-13.00	-22.50	-57.57	-38.20	9.00	11.70	H
	8640.00	-53.83	-13.00	-40.83	-79.06	-55.75	9.98	11.90	H
	3456.18	-48.46	-13.00	-35.46	-62.47	-54.88	6.18	12.60	V
	5184.27	-49.61	-13.00	-36.61	-69.63	-54.57	7.74	12.70	V
	6912.36	-38.87	-13.00	-25.87	-61.49	-41.57	9.00	11.70	V
	8640.00	-59.33	-13.00	-46.33	-84.03	-61.25	9.98	11.90	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									
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	-50.78	-13.00	-37.78	-64.44	-57.20	6.18	12.60	H
	5177.52	-46.75	-13.00	-33.75	-66.09	-51.71	7.74	12.70	H
	6903.36	-30.61	-13.00	-17.61	-52.55	-33.31	9.00	11.70	H
	8628.75	-51.68	-13.00	-38.68	-76.91	-53.60	9.98	11.90	H
	3451.68	-48.36	-13.00	-35.36	-62.37	-54.78	6.18	12.60	V
	5177.52	-49.82	-13.00	-36.82	-69.84	-54.78	7.74	12.70	V
	6903.36	-37.74	-13.00	-24.74	-60.24	-40.44	9.00	11.70	V
	8628.75	-59.05	-13.00	-46.05	-83.75	-60.97	9.98	11.90	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									
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	-51.16	-13.00	-38.16	-64.82	-57.58	6.18	12.60	H
	5170.77	-45.87	-13.00	-32.87	-65.20	-50.83	7.74	12.70	H
	6894.36	-34.72	-13.00	-21.72	-56.67	-37.42	9.00	11.70	H
	8617.50	-53.19	-13.00	-40.19	-78.35	-55.11	9.98	11.90	H
	3447.18	-47.97	-13.00	-34.97	-61.98	-54.39	6.18	12.60	V
	5170.77	-50.74	-13.00	-37.74	-70.77	-55.70	7.74	12.70	V
	6894.36	-37.14	-13.00	-24.14	-59.65	-39.84	9.00	11.70	V
	8617.50	-58.43	-13.00	-45.43	-83.11	-60.35	9.98	11.90	V

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



LTE Band 7 / 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	5065.68	-46.70	-25.00	-21.70	-66.04	-58.46	0.94	12.70	H
	7598.52	-49.69	-25.00	-24.69	-72.75	-59.70	1.69	11.70	H
	10131.36	-50.19	-25.00	-25.19	-77.59	-60.85	1.44	12.10	H
	5065.68	-45.72	-25.00	-20.72	-65.85	-57.48	0.94	12.70	V
	7598.52	-48.22	-25.00	-23.22	-71.41	-58.23	1.69	11.70	V
	10131.36	-51.64	-25.00	-26.64	-78.81	-62.30	1.44	12.10	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	5061.18	-45.70	-25.00	-20.70	-65.04	-57.46	0.94	12.70	H
	7591.77	-48.84	-25.00	-23.84	-71.90	-58.85	1.69	11.70	H
	10122.36	-48.72	-25.00	-23.72	-76.12	-59.38	1.44	12.10	H
	5061.18	-44.21	-25.00	-19.21	-64.34	-55.97	0.94	12.70	V
	7591.77	-48.57	-25.00	-23.57	-71.76	-58.58	1.69	11.70	V
	10122.36	-49.18	-25.00	-24.18	-76.35	-59.84	1.44	12.10	V

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



LTE Band 7 / 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	5056.68	-45.89	-25.00	-20.89	-65.23	-57.65	0.94	12.70	H
	7585.02	-49.01	-25.00	-24.01	-72.21	-59.02	1.69	11.70	H
	10113.36	-52.65	-25.00	-27.65	-80.11	-63.31	1.44	12.10	H
	5056.68	-44.64	-25.00	-19.64	-64.77	-56.40	0.94	12.70	V
	7585.02	-49.62	-25.00	-24.62	-72.93	-59.63	1.69	11.70	V
	10113.36	-52.74	-25.00	-27.74	-79.94	-63.40	1.44	12.10	V

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

LTE Band 7 / 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	5052.18	-46.99	-25.00	-21.99	-66.32	-58.75	0.94	12.70	H
	7578.27	-50.93	-25.00	-25.93	-74.13	-60.94	1.69	11.70	H
	10104.36	-48.85	-25.00	-23.85	-76.31	-59.51	1.44	12.10	H
	5052.18	-44.67	-25.00	-19.67	-64.81	-56.43	0.94	12.70	V
	7578.27	-50.39	-25.00	-25.39	-73.70	-60.40	1.69	11.70	V
	10104.36	-51.34	-25.00	-26.34	-78.54	-62.00	1.44	12.10	V

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