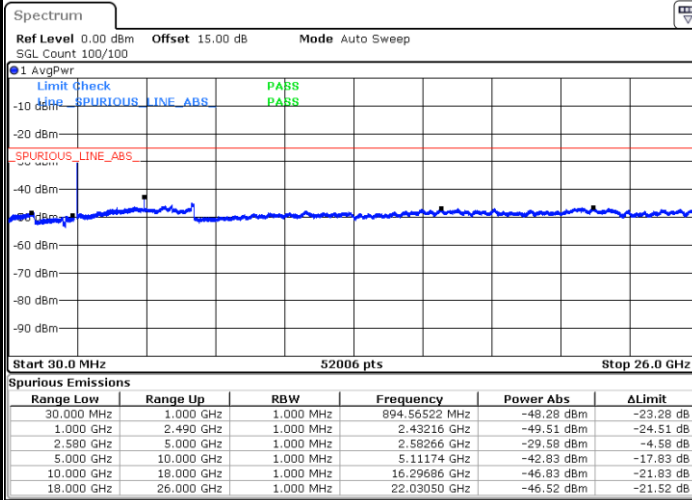




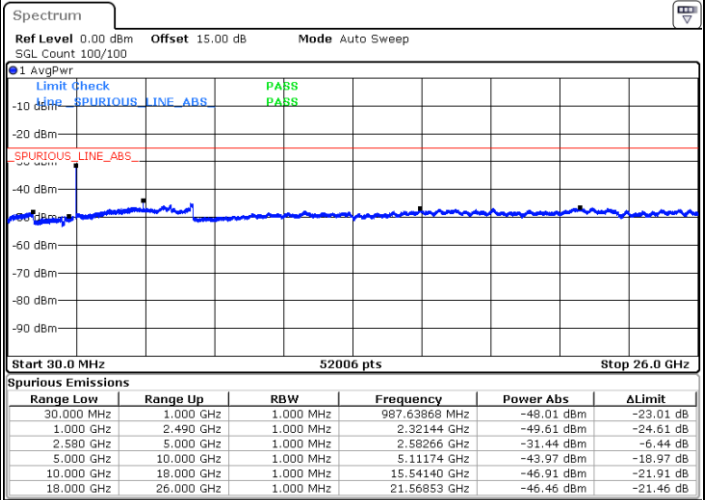
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 6 DEC. 2017 18:44:08

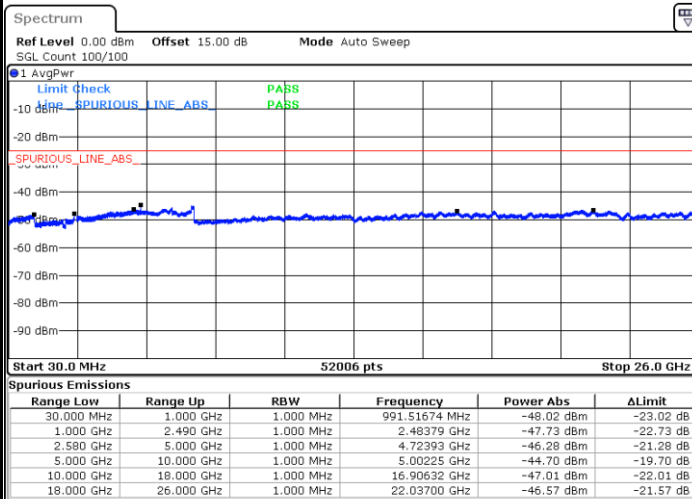
Highest Channel / 16QAM



Date: 6 DEC. 2017 18:45:01

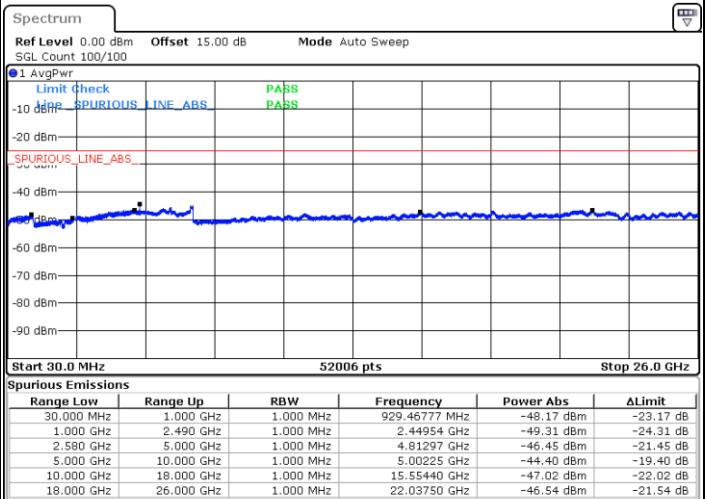
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 6 DEC. 2017 19:07:42

Lowest Channel / 16QAM

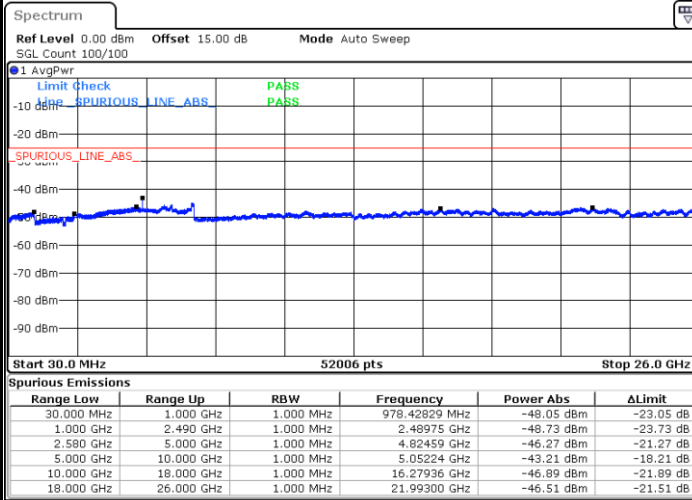


Date: 6 DEC. 2017 19:08:35



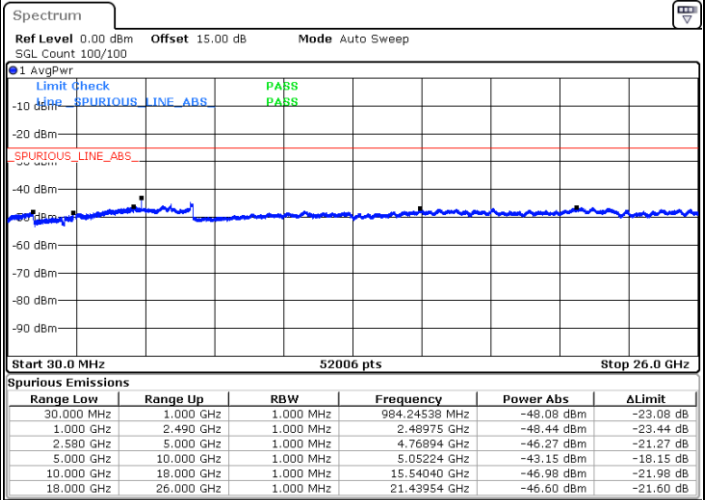
LTE Band 7 / 20MHz

Middle Channel / QPSK



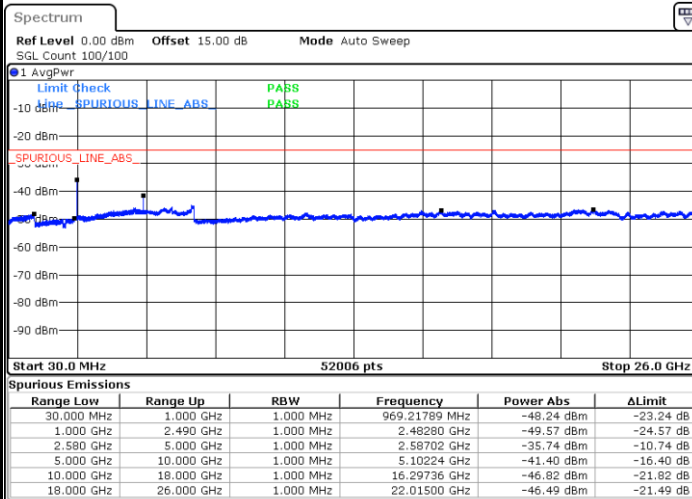
Date: 6 DEC. 2017 19:10:09

Middle Channel / 16QAM



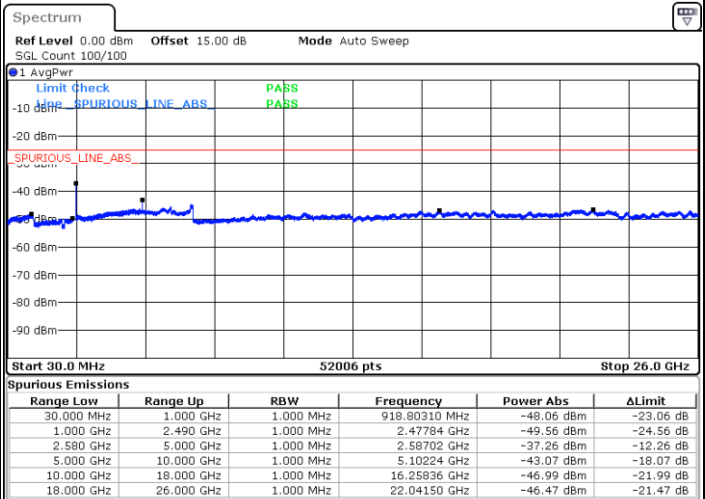
Date: 6 DEC. 2017 19:11:02

Highest Channel / QPSK



Date: 6 DEC. 2017 19:17:13

Highest Channel / 16QAM



Date: 6 DEC. 2017 19:18:06

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	0.0010	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0027	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0064	
-30	Normal Voltage	0.0112	
20	Maximum Voltage	0.0106	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0087	

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.



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.



Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0066	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0064	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0052	
0	Normal Voltage	0.0081	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0072	

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 2 / 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	3758.92	-62.85	-13	-49.85	-76.47	-70.45	5	12.60	H
	5638.38	-61.67	-13	-48.67	-78.27	-67.47	7.3	13.10	H
	7517.84	-58.95	-13	-45.95	-78.93	-62.52	7.73	11.30	H
	3758.92	-63.38	-13	-50.38	-77.71	-70.98	5	12.6	V
	5638.38	-62.41	-13	-49.41	-78.94	-68.21	7.3	13.1	V
	7517.84	-59.26	-13	-46.26	-78.9	-62.83	7.73	11.3	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 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	3757.48	-62.85	-13	-49.85	-76.47	-70.45	5	12.60	H
	5636.22	-62.19	-13	-49.19	-78.79	-67.99	7.3	13.10	H
	7514.96	-59.17	-13	-46.17	-79.15	-62.74	7.73	11.30	H
	3757.48	-63.52	-13	-50.52	-77.85	-71.12	5	12.6	V
	5636.22	-62.63	-13	-49.63	-79.16	-68.43	7.3	13.1	V
	7514.96	-58.95	-13	-45.95	-78.59	-62.52	7.73	11.3	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 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	3755.68	-62.61	-13	-49.61	-76.23	-70.21	5	12.60	H
	5633.52	-62.69	-13	-49.69	-79.29	-68.49	7.3	13.10	H
	7511.36	-59.12	-13	-46.12	-79.10	-62.69	7.73	11.30	H
	3755.68	-61.90	-13	-48.90	-76.23	-69.50	5	12.6	V
	5633.52	-62.76	-13	-49.76	-79.29	-68.56	7.3	13.1	V
	7511.36	-59.46	-13	-46.46	-79.1	-63.03	7.73	11.3	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 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	3751.18	-62.41	-13	-49.41	-76.03	-70.01	5	12.60	H
	5626.77	-61.94	-13	-48.94	-78.54	-67.74	7.3	13.10	H
	7502	-59.37	-13	-46.37	-79.35	-62.94	7.73	11.30	H
	3751.18	-63.64	-13	-50.64	-77.97	-71.24	5	12.6	V
	5626.77	-62.60	-13	-49.60	-79.13	-68.40	7.3	13.1	V
	7502	-59.62	-13	-46.62	-79.26	-63.19	7.73	11.3	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 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	3746.68	-61.77	-13	-48.77	-75.39	-69.37	5	12.60	H
	5620.02	-62.31	-13	-49.31	-78.91	-68.11	7.3	13.10	H
	7493.36	-59.22	-13	-46.22	-79.20	-62.79	7.73	11.30	H
	3746.68	-63.51	-13	-50.51	-77.84	-71.11	5	12.6	V
	5620.02	-62.66	-13	-49.66	-79.19	-68.46	7.3	13.1	V
	7493.36	-59.59	-13	-46.59	-79.23	-63.16	7.73	11.3	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 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	3742.18	-63.33	-13	-50.33	-76.95	-70.93	5	12.60	H
	5613.27	-62.18	-13	-49.18	-78.78	-67.98	7.3	13.10	H
	7484.36	-59.19	-13	-46.19	-79.17	-62.76	7.73	11.30	H
	3742.18	-63.60	-13	-50.60	-77.93	-71.20	5	12.6	V
	5613.27	-62.54	-13	-49.54	-79.07	-68.34	7.3	13.1	V
	7484.36	-59.65	-13	-46.65	-79.29	-63.22	7.73	11.3	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 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	3757.48	-60.86	-13	-47.86	-74.48	-68.46	5	12.60	H
	5636.22	-61.15	-13	-48.15	-77.75	-66.95	7.3	13.10	H
	7514.96	-58.70	-13	-45.70	-78.68	-62.27	7.73	11.30	H
	3757.48	-63.36	-13	-50.36	-77.69	-70.96	5	12.6	V
	5636.22	-62.44	-13	-49.44	-78.97	-68.24	7.3	13.1	V
	7514.96	-59.47	-13	-46.47	-79.11	-63.04	7.73	11.3	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 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.



LTE Band 7 / 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	5065.7	-48.56	-25	-23.56	-65.63	-55.41	6.25	13.10	H
	7598.5	-56.15	-25	-31.15	-77.02	-59.72	7.73	11.30	H
	10131.4	-44.61	-25	-19.61	-70.71	-48.27	8.44	12.10	H
	12662.5	-50.73	-25	-25.73	-79.75	-55.35	8.98	13.60	H
	5065.7	-55.45	-25	-30.45	-72.19	-62.30	6.25	13.10	V
	7598.5	-56.50	-25	-31.50	-77.04	-60.07	7.73	11.30	V
	10131.4	-47.07	-25	-22.07	-71.36	-50.73	8.44	12.10	V
	12662.5	-50.65	-25	-25.65	-79.81	-55.27	8.98	13.60	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 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	5061.2	-48.17	-25	-23.17	-65.24	-55.02	6.25	13.10	H
	7591.8	-57.36	-25	-32.36	-78.23	-60.93	7.73	11.30	H
	10122.4	-44.10	-25	-19.10	-70.20	-47.76	8.44	12.10	H
	12653.0	-50.53	-25	-25.53	-79.55	-55.15	8.98	13.60	H
	5061.2	-56.75	-25	-31.75	-73.49	-63.60	6.25	13.10	V
	7591.8	-56.38	-25	-31.38	-76.92	-59.95	7.73	11.30	V
	10122.4	-47.37	-25	-22.37	-71.66	-51.03	8.44	12.10	V
	12653.0	-50.66	-25	-25.66	-79.82	-55.28	8.98	13.60	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 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	5056.7	-43.91	-25	-18.91	-60.98	-50.76	6.25	13.10	H
	7585.0	-57.33	-25	-32.33	-78.20	-60.90	7.73	11.30	H
	10113.4	-43.80	-25	-18.80	-69.90	-47.46	8.44	12.10	H
	12641.7	-50.73	-25	-25.73	-79.75	-55.35	8.98	13.60	H
	5056.7	-53.04	-25	-28.04	-69.78	-59.89	6.25	13.10	V
	7585.0	-57.19	-25	-32.19	-77.73	-60.76	7.73	11.30	V
	10113.4	-48.35	-25	-23.35	-72.64	-52.01	8.44	12.10	V
	12641.7	-50.50	-25	-25.50	-79.66	-55.12	8.98	13.60	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 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	5052.2	-49.97	-25	-24.97	-67.04	-56.82	6.25	13.10	H
	7578.3	-57.29	-25	-32.29	-78.16	-60.86	7.73	11.30	H
	10104.4	-45.78	-25	-20.78	-71.88	-49.44	8.44	12.10	H
	12630.5	-50.90	-25	-25.90	-79.92	-55.52	8.98	13.60	H
	5052.2	-58.22	-25	-33.22	-74.96	-65.07	6.25	13.10	V
	7578.3	-57.12	-25	-32.12	-77.66	-60.69	7.73	11.30	V
	10104.4	-48.83	-25	-23.83	-73.12	-52.49	8.44	12.10	V
	12630.5	-50.32	-25	-25.32	-79.48	-54.94	8.98	13.60	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 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	5056.7	-45.05	-25	-20.05	-62.12	-51.90	6.25	13.10	H
	7585.0	-56.96	-25	-31.96	-77.83	-60.53	7.73	11.30	H
	10113.0	-43.94	-25	-18.94	-70.04	-47.60	8.44	12.10	H
	12641.7	-50.59	-25	-25.59	-79.61	-55.21	8.98	13.60	H
	5056.7	-54.69	-25	-29.69	-71.43	-61.54	6.25	13.10	V
	7585.0	-57.19	-25	-32.19	-77.73	-60.76	7.73	11.30	V
	10113.0	-47.73	-25	-22.73	-72.02	-51.39	8.44	12.10	V
	12641.7	-50.57	-25	-25.57	-79.73	-55.19	8.98	13.60	V

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