

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0172	PASS
40	Normal Voltage	0.0038	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0174	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0170	
-30	Normal Voltage	0.0147	
20	Maximum Voltage	0.0168	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

Note:

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.3 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

ERP/EIRP

LTE Band 2 ($G_T - L_C = 0.60$ dB)						
Modes	LTE Band 2 (QPSK, BW=5M)			LTE Band 2 (16QAM, BW=5M)		
Channel	18625(Low)	18900 (Mid)	19175 (High)	18625(Low)	18900 (Mid)	19175 (High)
Frequency (MHz)	1852.5	1880	1907.5	1852.5	1880	1907.5
Conducted Power P_T (dBm)	22.08	22.19	22.08	21.18	21.37	21
Conducted Power P_T (Watts)	0.16	0.17	0.16	0.13	0.14	0.13
EIRP(dBm)	22.68	22.79	22.68	21.78	21.97	21.60
EIRP(Watts)	0.1854	0.1901	0.1854	0.1507	0.1574	0.1445

LTE Band 2 ($G_T - L_C = 0.60$ dB)						
Modes	LTE Band 2 (QPSK, BW=10M)			LTE Band 2 (16QAM, BW=10M)		
Channel	18650(Low)	18900 (Mid)	19150 (High)	18650(Low)	18900 (Mid)	19150 (High)
Frequency (MHz)	1855	1880	1905	1855	1880	1905
Conducted Power P_T (dBm)	22.26	22.39	22.05	21.33	21.44	21.06
Conducted Power P_T (Watts)	0.17	0.17	0.16	0.14	0.14	0.13
EIRP(dBm)	22.86	22.99	22.65	21.93	22.04	21.66
EIRP(Watts)	0.1932	0.1991	0.1841	0.1560	0.1600	0.1466

LTE Band 2 ($G_T - L_C = 0.60$ dB)						
Modes	LTE Band 2 (QPSK,BW=15M)			LTE Band 2 (16QAM,BW=15M)		
Channel	18675(Low)	18900 (Mid)	19125 (High)	18675(Low)	18900 (Mid)	19125 (High)
Frequency (MHz)	1857.5	1880	1902.5	1857.5	1880	1902.5
Conducted Power P_T (dBm)	22.22	22.26	22.15	21.13	21.18	21.01
Conducted Power P_T (Watts)	0.17	0.17	0.16	0.13	0.13	0.13
EIRP(dBm)	22.82	22.86	22.75	21.73	21.78	21.61
EIRP(Watts)	0.1914	0.1932	0.1884	0.1489	0.1507	0.1449

LTE Band 2 ($G_T - L_C = 0.60$ dB)						
Modes	LTE Band 2 (QPSK,BW=20M)			LTE Band 2 (16QAM,BW=20M)		
Channel	18700(Low)	18900 (Mid)	19100 (High)	18700(Low)	18900 (Mid)	19100 (High)
Frequency (MHz)	1860	1880	1900	1860	1880	1900
Conducted Power P_T (dBm)	22.28	22.29	22.1	21.11	21.24	21.14
Conducted Power P_T (Watts)	0.17	0.17	0.16	0.13	0.13	0.13
EIRP(dBm)	22.88	22.89	22.7	21.71	21.84	21.74
EIRP(Watts)	0.1941	0.1945	0.1862	0.1483	0.1528	0.1493

LTE Band 4 ($G_T - L_C = 0.60$ dB)						
Modes	LTE Band 4 (QPSK,BW=5M)			LTE Band 4 (16QAM,BW=5M)		
Channel	19975(Low)	20175 (Mid)	20375 (High)	19975(Low)	20175 (Mid)	20375 (High)
Frequency (MHz)	1712.5	1732.5	1752.5	1712.5	1732.5	1752.5
Conducted Power P_T (dBm)	22.67	22.8	22.7	21.56	21.78	21.59
Conducted Power P_T (Watts)	0.18	0.19	0.19	0.14	0.15	0.14
EIRP(dBm)	23.27	23.40	23.30	22.16	22.38	22.19
EIRP(Watts)	0.2123	0.2188	0.2138	0.1644	0.1730	0.1656

LTE Band 4 ($G_T - L_C = 0.60$ dB)						
Modes	LTE Band 4 (QPSK,BW=10M)			LTE Band 4 (16QAM,BW=10M)		
Channel	20000 (Low)	20175 (Mid)	20350 (High)	20000 (Low)	20175 (Mid)	20350 (High)
Frequency (MHz)	1715	1732.5	1750	1715	1732.5	1750
Conducted Power P_T (dBm)	22.74	22.55	22.85	21.60	21.62	21.66
Conducted Power P_T (Watts)	0.19	0.18	0.19	0.14	0.15	0.15
EIRP(dBm)	23.34	23.15	23.45	22.2	22.22	22.26
EIRP(Watts)	0.2158	0.2065	0.2213	0.1660	0.1667	0.1683

LTE Band 4 ($G_T - L_C = 0.60$ dB)						
Modes	LTE Band 4 (QPSK,BW=15M)			LTE Band 4 (16QAM,BW=15M)		
Channel	20025 (Low)	20175 (Mid)	20325 (High)	20025 (Low)	20175 (Mid)	20325 (High)
Frequency (MHz)	1717.5	1732.5	1747.5	1717.5	1732.5	1747.5
Conducted Power P_T (dBm)	22.3	22.73	22.49	21.55	21.6	21.69
Conducted Power P_T (Watts)	0.17	0.19	0.18	0.14	0.14	0.15
EIRP(dBm)	22.9	23.33	23.09	22.15	22.2	22.29
EIRP(Watts)	0.1950	0.2153	0.2037	0.1641	0.1660	0.1694

LTE Band 4 ($G_T - L_C = 0.60$ dB)						
Modes	LTE Band 4 (QPSK,BW=20M)			LTE Band 4 (16QAM,BW=20M)		
Channel	20050 (Low)	20175 (Mid)	20300 (High)	20050 (Low)	20175 (Mid)	20300 (High)
Frequency (MHz)	1720	1732.5	1745	1720	1732.5	1745
Conducted Power P_T (dBm)	22.79	22.53	22.61	21.63	21.6	21.64
Conducted Power P_T (Watts)	0.19	0.18	0.18	0.15	0.14	0.15
EIRP(dBm)	23.39	23.13	23.21	22.23	22.2	22.24
EIRP(Watts)	0.2183	0.2056	0.2094	0.1671	0.1660	0.1675

LTE Band 12 ($G_T - L_C = -3.50$ dB)						
Modes	LTE Band 12 (QPSK, BW=5M)			LTE Band 12 (16QAM, BW=5M)		
Channel	23035 (Low)	23095 (Mid)	23155 (High)	23060 (Low)	23095 (Mid)	23130 (High)
Frequency (MHz)	701.5	707.5	713.5	701.5	707.5	713.5
Conducted Power P_T (dBm)	22.21	21.82	22.22	21.33	20.88	20.96
Conducted Power P_T (Watts)	0.17	0.15	0.17	0.14	0.12	0.12
ERP(dBm)	16.56	16.17	16.57	15.68	15.23	15.31
ERP(Watts)	0.0453	0.0414	0.0454	0.0370	0.0333	0.0340

LTE Band 12 ($G_T - L_C = -3.50$ dB)						
Modes	LTE Band 12 (QPSK, BW=10M)			LTE Band 12 (16QAM, BW=10M)		
Channel	23035 (Low)	23095 (Mid)	23035 (Low)	23095 (Mid)	23035 (Low)	23095 (Mid)
Frequency (MHz)	704	707.5	711	704	707.5	711
Conducted Power P_T (dBm)	22.11	22.03	21.89	20.95	20.92	20.96
Conducted Power P_T (Watts)	0.16	0.16	0.15	0.12	0.12	0.12
ERP(dBm)	16.46	16.38	16.24	15.3	15.27	15.31
ERP(Watts)	0.0443	0.0435	0.0421	0.0339	0.0337	0.0340

**Radiated Spurious Emission****LTE Band 2**

LTE Band 2 / 5MHz / QPSK									
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)
Lowest	3700	-49.78	-13	-36.78	-37.85	-56.35	1.67	8.24	H
	5548	-43.83	-13	-30.83	-39.42	-50.9	2.65	9.72	H
	7403	-59.56	-13	-46.56	-59.19	-68.71	2.46	11.61	H
	14807	-58.76	-13	-45.76	-64.84	-68.61	3.52	13.37	H
	16650	-56.35	-13	-43.35	-67.24	-64.8	3.93	12.38	H
	3700	-51.38	-13	-38.38	-39.43	-57.95	1.67	8.24	V
	5548	-46.74	-13	-33.74	-41.34	-53.81	2.65	9.72	V
	7403	-57.08	-13	-44.08	-56.2	-66.23	2.46	11.61	V
	14807	-49.21	-13	-36.21	-55.8	-59.06	3.52	13.37	V
	16650	-47.27	-13	-34.27	-57.13	-55.72	3.93	12.38	V
Middle	3756	-48.76	-13	-35.76	-37.2	-55.38	1.68	8.31	H
	5632	-46.07	-13	-33.07	-41.83	-53.12	2.70	9.75	H
	7522	-61.41	-13	-48.41	-61.36	-70.8	2.42	11.81	H
	15025.5	-59.46	-13	-46.46	-65.56	-69.49	3.61	13.64	H
	16897	-55.74	-13	-42.74	-66.97	-64.52	3.89	12.68	H
	3756	-52.40	-13	-39.40	-40.69	-59.02	1.68	8.31	V
	5632	-48.98	-13	-35.98	-43.72	-56.03	2.70	9.75	V
	7522	-54.88	-13	-41.88	-54.21	-64.27	2.42	11.81	V
	15025.5	-51.59	-13	-38.59	-59.46	-61.62	3.61	13.64	V
	16897	-51.07	-13	-38.07	-61.46	-59.85	3.89	12.68	V



Highest	3812	-45.48	-13	-32.48	-34.15	-52.15	1.70	8.37	H
	5716	-48.61	-13	-35.61	-44.56	-55.65	2.75	9.79	H
	7627	-61.14	-13	-48.14	-61.3	-70.63	2.39	11.88	H
	15244	-60.73	-13	-47.73	-67.59	-70.97	3.70	13.94	H
	17144	-50.93	-13	-37.93	-63	-60.27	3.86	13.20	H
	3812	-53.47	-13	-40.47	-42.02	-60.14	1.70	8.37	V
	5716	-51.51	-13	-38.51	-46.32	-58.55	2.75	9.79	V
	7627	-54.57	-13	-41.57	-54.17	-64.06	2.39	11.88	V
	15244	-53.71	-13	-40.71	-61.71	-63.95	3.70	13.94	V
	17144	-48.39	-13	-35.39	-59.64	-57.73	3.86	13.20	V

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



LTE Band 2 / 10MHz / QPSK									
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)
Lowest	3700	-49.90	-13	-36.90	-38.07	-56.47	1.67	8.24	H
	5555	-43.57	-13	-30.57	-39.17	-50.64	2.66	9.72	H
	14807	-58.29	-13	-45.29	-64.37	-68.14	3.52	13.37	H
	16659	-56.03	-13	-43.03	-66.92	-64.5	3.92	12.39	H
	3700	-51.03	-13	-38.03	-39.08	-57.6	1.67	8.24	V
	5555	-45.51	-13	-32.51	-40.21	-52.58	2.66	9.72	V
	14807	-47.28	-13	-34.28	-54.87	-57.13	3.52	13.37	V
	16659	-47.20	-13	-34.20	-57.26	-55.67	3.92	12.39	V
Middle	3749	-51.41	-13	-38.41	-39.79	-58.03	1.68	8.30	H
	5625	-47.93	-13	-34.93	-43.68	-54.98	2.70	9.75	H
	15006.5	-59.79	-13	-46.79	-65.72	-69.8	3.60	13.61	H
	16878	-55.66	-13	-42.66	-66.86	-64.42	3.90	12.65	H
	3749	-54.18	-13	-41.18	-42.49	-60.8	1.68	8.30	V
	5625	-50.18	-13	-37.18	-44.92	-57.23	2.70	9.75	V
	15006.5	-54.01	-13	-41.01	-61.85	-64.02	3.60	13.61	V
	16878	-48.07	-13	-35.07	-58.33	-56.83	3.90	12.65	V
Highest	3805	-52.10	-13	-39.10	-39.77	-58.77	1.70	8.37	H
	5702	-47.44	-13	-34.44	-43.28	-54.48	2.74	9.78	H
	7620	-60.62	-13	-47.62	-60.74	-70.1	2.39	11.87	H
	9503	-59.58	-13	-46.58	-61.49	-69.49	2.59	12.50	H
	17106	-54.06	-13	-41.06	-65.89	-63.29	3.86	13.10	H
	3805	-58.78	-13	-45.78	-47.33	-65.45	1.70	8.37	V
	5702	-48.79	-13	-35.79	-43.7	-55.83	2.74	9.78	V
	7620	-53.28	-13	-40.28	-52.93	-62.76	2.39	11.87	V
	9503	-54.06	-13	-41.06	-54.68	-63.97	2.59	12.50	V
	17106	-49.31	-13	-36.31	-60.22	-58.54	3.86	13.10	V

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



LTE Band 2 / 15MHz / QPSK									
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)
Lowest	3700	-49.10	-13	-36.10	-37.17	-55.67	1.67	8.24	H
	5555	-43.05	-13	-30.05	-38.65	-50.12	2.66	9.72	H
	14807	-58.20	-13	-45.20	-64.28	-68.05	3.52	13.37	H
	16659	-57.19	-13	-44.19	-68.08	-65.66	3.92	12.39	H
	3700	-50.74	-13	-37.74	-38.69	-57.31	1.67	8.24	V
	5555	-44.90	-13	-31.90	-39.5	-51.97	2.66	9.72	V
	14807	-47.48	-13	-34.48	-55.07	-57.33	3.52	13.37	V
	16659	-47.31	-13	-34.31	-57.27	-55.78	3.92	12.39	V
Middle	3749	-50.62	-13	-37.62	-39.05	-57.24	1.68	8.30	H
	5618	-50.42	-13	-37.42	-46.18	-57.47	2.69	9.75	H
	14987	-60.43	-13	-47.43	-66.4	-70.42	3.59	13.58	H
	16859	-56.57	-13	-43.57	-67.74	-65.3	3.90	12.63	H
	3749	-54.39	-13	-41.39	-42.68	-61.01	1.68	8.30	V
	5618	-51.90	-13	-38.90	-46.64	-58.95	2.69	9.75	V
	14987	-54.04	-13	-41.04	-61.88	-64.03	3.59	13.58	V
	16859	-52.41	-13	-39.41	-62.65	-61.14	3.90	12.63	V
Highest	3791	-51.45	-13	-38.45	-40.04	-58.1	1.70	8.35	H
	5688	-46.60	-13	-33.60	-42.53	-53.64	2.73	9.78	H
	15168	-59.77	-13	-46.77	-67.36	-69.94	3.67	13.84	H
	17058.5	-58.42	-13	-45.42	-70.1	-67.51	3.87	12.96	H
	3791	-55.78	-13	-42.78	-44.25	-62.43	1.70	8.35	V
	5688	-46.61	-13	-33.61	-41.58	-53.65	2.73	9.78	V
	15168	-56.34	-13	-43.34	-64.29	-66.51	3.67	13.84	V
	17058.5	-55.60	-13	-42.60	-65.35	-64.69	3.87	12.96	V

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



LTE Band 2 / 20MHz / QPSK									
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)
Lowest	3700	-50.35	-13	-37.35	-38.52	-56.92	1.67	8.24	H
	5555	-42.82	-13	-29.82	-38.32	-49.89	2.66	9.72	H
	14807	-59.35	-13	-46.35	-65.43	-69.2	3.52	13.37	H
	16659.5	-56.56	-13	-43.56	-67.45	-65.03	3.92	12.39	H
	3700	-51.61	-13	-38.61	-39.67	-58.18	1.67	8.24	V
	5555	-45.41	-13	-32.41	-39.91	-52.48	2.66	9.72	V
	14807	-49.51	-13	-36.51	-57.1	-59.36	3.52	13.37	V
	16659.5	-48.13	-13	-35.13	-58.09	-56.6	3.92	12.39	V
Middle	3742	-50.28	-13	-37.28	-38.61	-56.89	1.68	8.29	H
	5611	-50.37	-13	-37.37	-46.08	-57.43	2.69	9.74	H
	14968.5	-60.82	-13	-47.82	-66.78	-70.8	3.58	13.56	H
	16840	-58.30	-13	-45.30	-69.45	-67.01	3.90	12.61	H
	3742	-54.14	-13	-41.14	-42.45	-60.75	1.68	8.29	V
	5611	-52.40	-13	-39.40	-47.2	-59.46	2.69	9.74	V
	14968.5	-56.09	-13	-43.09	-63.91	-66.07	3.58	13.56	V
	16840	-51.39	-13	-38.39	-61.56	-60.1	3.90	12.61	V
Highest	3784	-47.25	-13	-34.25	-35.84	-53.9	1.69	8.34	H
	5674	-45.32	-13	-32.32	-41.19	-52.36	2.73	9.77	H
	15130	-60.63	-13	-47.63	-66.97	-70.76	3.65	13.78	H
	17020.5	-57.70	-13	-44.70	-69.15	-66.68	3.88	12.86	H
	3784	-51.97	-13	-38.97	-40.44	-58.62	1.69	8.34	V
	5674	-46.64	-13	-33.64	-41.48	-53.68	2.73	9.77	V
	15130	-54.79	-13	-41.79	-62.72	-64.92	3.65	13.78	V
	17020.5	-52.73	-13	-39.73	-63.24	-61.71	3.88	12.86	V

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

**LTE Band 4**

LTE Band 4 / 5MHz / QPSK									
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)
Lowest	3420	-62.44	-13	-49.44	-49.45	-68.51	1.58	7.65	H
	5128	-54.23	-13	-41.23	-48.38	-61.52	2.41	9.70	H
	13680	-43.94	-13	-30.94	-51.99	-54.72	3.10	13.88	H
	15392	-49.99	-13	-36.99	-58.62	-60.38	3.76	14.15	H
	3420	-61.22	-13	-48.22	-48.26	-67.29	1.58	7.65	V
	5128	-55.95	-13	-42.95	-48.99	-63.24	2.41	9.70	V
	13680	-38.28	-13	-25.28	-46.01	-49.06	3.10	13.88	V
	15392	-42.07	-13	-29.07	-50.16	-52.46	3.76	14.15	V
Middle	3462	-59.21	-13	-46.21	-46.24	-65.45	1.59	7.83	H
	5191	-46.88	-13	-33.88	-41.27	-54.13	2.45	9.70	H
	6920	-59.35	-13	-46.35	-58.05	-67.44	2.62	10.70	H
	13840	-38.88	-13	-25.88	-46.4	-49.78	3.14	14.04	H
	15576	-46.15	-13	-33.15	-54.3	-56.51	3.84	14.19	H
	3462	-59.31	-13	-46.31	-46.33	-65.55	1.59	7.83	V
	5191	-49.01	-13	-36.01	-42.32	-56.26	2.45	9.70	V
	6920	-56.38	-13	-43.38	-54.58	-64.47	2.62	10.70	V
	13840	-32.58	-13	-19.58	-39.97	-43.48	3.14	14.04	V
	15576	-42.66	-13	-29.66	-50.79	-53.02	3.84	14.19	V
Highest	3504	-57.61	-13	-44.61	-44.82	-64.01	1.61	8.00	H
	5254	-54.49	-13	-41.49	-49.06	-61.71	2.48	9.70	H
	7011	-60.53	-13	-47.53	-59.39	-68.77	2.59	10.82	H
	14000	-39.46	-13	-26.46	-46.3	-50.48	3.18	14.20	H
	15752	-47.65	-13	-34.65	-56.02	-57.69	3.91	13.95	H
	3504	-57.58	-13	-44.58	-44.65	-63.98	1.61	8.00	V
	5254	-54.24	-13	-41.24	-47.75	-61.46	2.48	9.70	V
	7011	-55.44	-13	-42.44	-53.86	-63.68	2.59	10.82	V
	14000	-31.71	-13	-18.71	-38.72	-42.73	3.18	14.20	V
	15752	-40.34	-13	-27.34	-48.43	-50.38	3.91	13.95	V

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



LTE Band 4 / 10MHz / QPSK									
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)
Lowest	3420	-63.38	-13	-50.38	-50.39	-69.45	1.58	7.65	H
	5135	-52.64	-13	-39.64	-46.79	-59.93	2.41	9.70	H
	13688	-45.80	-13	-32.80	-53.75	-56.58	3.10	13.89	H
	15392	-50.66	-13	-37.66	-58.3	-61.05	3.76	14.15	H
	3420	-61.15	-13	-48.15	-48.09	-67.22	1.58	7.65	V
	5135	-54.80	-13	-41.80	-47.84	-62.09	2.41	9.70	V
	13688	-40.09	-13	-27.09	-47.82	-50.87	3.10	13.89	V
	15392	-46.08	-13	-33.08	-54.17	-56.47	3.76	14.15	V
Middle	3455	-58.69	-13	-45.69	-45.78	-64.9	1.59	7.80	H
	5184	-45.60	-13	-32.60	-39.83	-52.86	2.44	9.70	H
	6913	-57.40	-13	-44.40	-56.1	-65.48	2.62	10.70	H
	13824	-36.87	-13	-23.87	-44.45	-47.76	3.14	14.02	H
	15552	-44.50	-13	-31.50	-52.53	-54.9	3.83	14.23	H
	17280	-53.36	-13	-40.36	-66.03	-63.1	3.84	13.58	H
	3455	-57.60	-13	-44.60	-43.59	-63.81	1.59	7.80	V
	5184	-48.71	-13	-35.71	-41.95	-55.97	2.44	9.70	V
	6913	-52.95	-13	-39.95	-51.16	-61.03	2.62	10.70	V
	13824	-29.37	-13	-16.37	-36.8	-40.26	3.14	14.02	V
	15552	-42.13	-13	-29.13	-50.29	-52.53	3.83	14.23	V
	17280	-48.81	-13	-35.81	-60.39	-58.55	3.84	13.58	V
Highest	3490	-62.19	-13	-49.19	-49.36	-68.54	1.60	7.96	H
	5240	-55.29	-13	-42.29	-49.76	-62.51	2.48	9.70	H
	13968	-49.19	-13	-36.19	-56.24	-60.18	3.17	14.17	H
	15712	-50.15	-13	-37.15	-58.36	-60.26	3.89	14.00	H
	3490	-61.66	-13	-48.66	-48.7	-68.01	1.60	7.96	V
	5240	-56.25	-13	-43.25	-49.69	-63.47	2.48	9.70	V
	13968	-41.26	-13	-28.26	-48.35	-52.25	3.17	14.17	V
	15712	-45.71	-13	-32.71	-53.89	-55.82	3.89	14.00	V

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



LTE Band 4 / 15MHz / QPSK									
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)
Lowest	3420	-61.46	-13	-48.46	-48.47	-67.53	1.58	7.65	H
	5135	-52.93	-13	-39.93	-47.12	-60.22	2.41	9.70	H
	13688	-44.92	-13	-31.92	-53.02	-55.7	3.10	13.89	H
	15400	-49.72	-13	-36.72	-57.35	-60.12	3.76	14.16	H
	17112	-54.90	-13	-41.90	-67.81	-64.15	3.86	13.11	H
	3420	-60.68	-13	-47.68	-47.62	-66.75	1.58	7.65	V
	5135	-54.78	-13	-41.78	-47.82	-62.07	2.41	9.70	V
	13688	-39.63	-13	-26.63	-47.34	-50.41	3.10	13.89	V
	15400	-46.33	-13	-33.33	-54.32	-56.73	3.76	14.16	V
	17112	-54.52	-13	-41.52	-65.52	-63.77	3.86	13.11	V
Middle	3455	-57.90	-13	-44.90	-44.99	-64.11	1.59	7.80	H
	5177	-48.11	-13	-35.11	-42.34	-55.37	2.44	9.70	H
	6906	-56.75	-13	-43.75	-55.41	-64.82	2.62	10.69	H
	13808	-36.65	-13	-23.65	-44.29	-47.52	3.13	14.01	H
	15536	-48.80	-13	-35.80	-56.91	-59.23	3.82	14.25	H
	17256	-53.60	-13	-40.60	-66.12	-63.27	3.84	13.52	H
	3455	-57.51	-13	-44.51	-44.4	-63.72	1.59	7.80	V
	5177	-49.76	-13	-36.76	-42.98	-57.02	2.44	9.70	V
	6906	-53.19	-13	-40.19	-51.35	-61.26	2.62	10.69	V
	13808	-30.44	-13	-17.44	-37.91	-41.31	3.13	14.01	V
	15536	-43.30	-13	-30.30	-51.46	-53.73	3.82	14.25	V
	17256	-49.44	-13	-36.44	-61.07	-59.11	3.84	13.52	V
Highest	3483	-63.95	-13	-50.95	-51.09	-70.28	1.60	7.93	H
	5226	-54.17	-13	-41.17	-48.69	-61.4	2.47	9.70	H
	13928	-52.16	-13	-39.16	-59.37	-63.12	3.16	14.13	H
	15672	-56.06	-13	-43.06	-64.33	-66.24	3.88	14.06	H
	3483	-63.51	-13	-50.51	-50.55	-69.84	1.60	7.93	V
	5226	-54.49	-13	-41.49	-47.93	-61.72	2.47	9.70	V
	13928	-46.31	-13	-33.31	-53.51	-57.27	3.16	14.13	V
	15672	-51.22	-13	-38.22	-59.39	-61.4	3.88	14.06	V

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



LTE Band 4 / 20MHz / QPSK									
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)
Lowest	3420	-62.83	-13	-49.83	-49.84	-68.9	1.58	7.65	H
	5135	-51.65	-13	-38.65	-45.8	-58.94	2.41	9.70	H
	13688	-42.55	-13	-29.55	-50.6	-53.33	3.10	13.89	H
	15400	-50.42	-13	-37.42	-58.05	-60.82	3.76	14.16	H
	3420	-61.62	-13	-48.62	-48.46	-67.69	1.58	7.65	V
	5135	-54.06	-13	-41.06	-47.1	-61.35	2.41	9.70	V
	13688	-39.47	-13	-26.47	-47.2	-50.25	3.10	13.89	V
	15400	-43.82	-13	-30.82	-51.91	-54.22	3.76	14.16	V
Middle	3448	-57.51	-13	-44.51	-44.5	-63.69	1.59	7.77	H
	5170	-46.75	-13	-33.75	-41.02	-54.02	2.43	9.70	H
	6892	-56.70	-13	-43.70	-55.36	-64.75	2.63	10.67	H
	13792	-36.07	-13	-23.07	-43.76	-46.93	3.13	13.99	H
	15512	-47.80	-13	-34.80	-55.89	-58.27	3.81	14.28	H
	17240	-52.68	-13	-39.68	-65.12	-62.31	3.85	13.47	H
	3448	-56.47	-13	-43.47	-43.46	-62.65	1.59	7.77	V
	5170	-48.60	-13	-35.60	-41.77	-55.87	2.43	9.70	V
	6892	-53.90	-13	-40.90	-52.06	-61.95	2.63	10.67	V
	13792	-28.69	-13	-15.69	-36.19	-39.55	3.13	13.99	V
	15512	-45.12	-13	-32.12	-53.27	-55.59	3.81	14.28	V
	17240	-47.44	-13	-34.44	-58.99	-57.07	3.85	13.47	V
Highest	3476	-61.48	-13	-48.48	-48.65	-67.78	1.60	7.89	H
	5212	-51.48	-13	-38.48	-45.93	-58.72	2.46	9.70	H
	13888	-43.68	-13	-30.68	-51.02	-54.61	3.15	14.09	H
	15624	-50.72	-13	-37.72	-38.62	-60.99	3.86	14.13	H
	3476	-60.74	-13	-47.74	-47.78	-67.04	1.60	7.89	V
	5212	-52.36	-13	-39.36	-45.73	-59.6	2.46	9.70	V
	13888	-36.62	-13	-23.62	-43.89	-47.55	3.15	14.09	V
	15624	-46.63	-13	-33.63	-54.8	-56.9	3.86	14.13	V

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

**LTE Band 12**

LTE Band 12 / 5MHz / QPSK									
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)
Lowest	1400	-54.62	-13.00	-41.62	-33.81	-56.28	0.87	4.68	H
	2096	-66.19	-13.00	-53.19	-47.95	-67.06	1.16	4.19	H
	2800	-62.03	-13.00	-49.03	-47.75	-64.14	1.38	5.64	H
	2928	-58.92	-13.00	-45.92	-43.78	-61.09	1.42	5.74	H
	3496	-58.32	-13.00	-45.32	-45.87	-62.55	1.60	7.98	H
	4200	-64.22	-13.00	-51.22	-54.60	-68.83	1.88	8.64	H
	1400	-50.36	-13.00	-37.36	-38.67	-52.02	0.87	4.68	V
	2096	-58.74	-13.00	-45.74	-46.85	-59.61	1.16	4.19	V
	2800	-56.32	-13.00	-43.32	-44.20	-58.43	1.38	5.64	V
	2928	-58.00	-13.00	-45.00	-46.12	-60.17	1.42	5.74	V
	3496	-63.11	-13.00	-50.11	-51.18	-67.34	1.60	7.98	V
	4200	-65.91	-13.00	-52.91	-53.19	-70.52	1.88	8.64	V
Middle	1408	-53.01	-13.00	-40.01	-33.28	-54.72	0.87	4.73	H
	2120	-68.24	-13.00	-55.24	-50.26	-69.18	1.17	4.26	H
	2824	-67.34	-13.00	-54.34	-52.64	-69.46	1.39	5.66	H
	2952	-58.75	-13.00	-45.75	-44.24	-60.93	1.43	5.76	H
	3528	-66.28	-13.00	-53.28	-53.82	-70.55	1.61	8.03	H
	1408	-52.90	-13.00	-39.90	-32.30	-54.61	0.87	4.73	V
	2120	-65.95	-13.00	-52.95	-48.12	-66.89	1.17	4.26	V
	2824	-65.90	-13.00	-52.90	-51.34	-68.02	1.39	5.66	V
	2952	-57.60	-13.00	-44.60	-44.03	-59.78	1.43	5.76	V
	3528	-68.73	-13.00	-55.73	-56.02	-73.00	1.61	8.03	V



Highest	1424	-49.49	-13.00	-36.49	-28.78	-51.29	0.88	4.83	H
	2136	-63.35	-13.00	-50.35	-45.98	-64.33	1.18	4.31	H
	2848	-61.95	-13.00	-48.95	-46.66	-64.08	1.40	5.68	H
	2976	-58.73	-13.00	-45.73	-44.45	-60.92	1.44	5.78	H
	3560	-54.42	-13.00	-41.42	-42.45	-58.72	1.62	8.07	H
	4272	-65.62	-13.00	-52.62	-55.30	-70.21	1.92	8.65	H
	1424	-48.92	-13.00	-35.92	-27.61	-50.72	0.88	4.83	V
	2136	-56.13	-13.00	-43.13	-39.04	-57.11	1.18	4.31	V
	2848	-56.86	-13.00	-43.86	-42.51	-58.99	1.40	5.68	V
	2976	-57.15	-13.00	-44.15	-43.89	-59.34	1.44	5.78	V
	3560	-60.71	-13.00	-47.71	-47.69	-65.01	1.62	8.07	V
	4272	-66.69	-13.00	-53.69	-55.65	-71.28	1.92	8.65	V

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



LTE Band 12 / 10MHz / QPSK									
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)
Lowest	1400	-54.77	-13.00	-41.77	-33.32	-56.43	0.87	4.68	H
	2096	-66.95	-13.00	-53.95	-48.04	-67.82	1.16	4.19	H
	2800	-63.98	-13.00	-50.98	-48.30	-66.09	1.38	5.64	H
	2936	-58.24	-13.00	-45.24	-44.68	-60.41	1.43	5.75	H
	3496	-58.63	-13.00	-45.63	-45.84	-62.86	1.60	7.98	H
	4200	-64.69	-13.00	-51.69	-54.84	-69.30	1.88	8.64	H
	1400	-51.80	-13.00	-38.80	-30.88	-53.46	0.87	4.68	V
	2096	-60.18	-13.00	-47.18	-42.71	-61.05	1.16	4.19	V
	2800	-56.32	-13.00	-43.32	-41.73	-58.43	1.38	5.64	V
	2936	-57.64	-13.00	-44.64	-43.78	-59.81	1.43	5.75	V
	3496	-63.05	-13.00	-50.05	-50.78	-67.28	1.60	7.98	V
	4200	-65.72	-13.00	-52.72	-54.75	-70.33	1.88	8.64	V
Middle	1408	-62.58	-13.00	-49.58	-41.37	-64.29	0.87	4.73	H
	2112	-69.19	-13.00	-56.19	-51.18	-70.11	1.17	4.24	H
	2816	-65.32	-13.00	-52.32	-50.96	-67.43	1.39	5.65	H
	2952	-58.07	-13.00	-45.07	-44.47	-60.25	1.43	5.76	H
	3512	-61.05	-13.00	-48.05	-48.61	-65.31	1.61	8.01	H
	4216	-63.84	-13.00	-50.84	-53.54	-68.45	1.89	8.64	H
	1408	-58.72	-13.00	-45.72	-37.55	-60.43	0.87	4.73	V
	2112	-64.80	-13.00	-51.80	-46.51	-65.72	1.17	4.24	V
	2816	-59.83	-13.00	-46.83	-45.15	-61.94	1.39	5.65	V
	2952	-57.55	-13.00	-44.55	-43.94	-59.73	1.43	5.76	V
	3512	-66.26	-13.00	-53.26	-53.29	-70.52	1.61	8.01	V
	4216	-64.02	-13.00	-51.02	-54.12	-68.63	1.89	8.64	V



Highest	1416	-51.29	-13.00	-38.29	-30.52	-53.04	0.87	4.78	H
	2120	-66.37	-13.00	-53.37	-48.69	-67.31	1.17	4.26	H
	2824	-65.00	-13.00	-52.00	-51.13	-67.12	1.39	5.66	H
	2968	-58.15	-13.00	-45.15	-44.40	-60.34	1.44	5.77	H
	3536	-59.64	-13.00	-46.64	-46.82	-63.92	1.62	8.04	H
	4240	-66.68	-13.00	-53.68	-56.35	-71.28	1.90	8.65	H
	1416	-50.08	-13.00	-37.08	-30.31	-51.83	0.87	4.78	V
	2120	-59.82	-13.00	-46.82	-42.53	-60.76	1.17	4.26	V
	2824	-59.06	-13.00	-46.06	-44.84	-61.18	1.39	5.66	V
	2968	-59.06	-13.00	-46.06	-45.30	-61.25	1.44	5.77	V
	3536	-64.74	-13.00	-51.74	-52.19	-69.02	1.62	8.04	V
	4240	-67.06	-13.00	-54.06	-56.71	-71.66	1.90	8.65	V

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