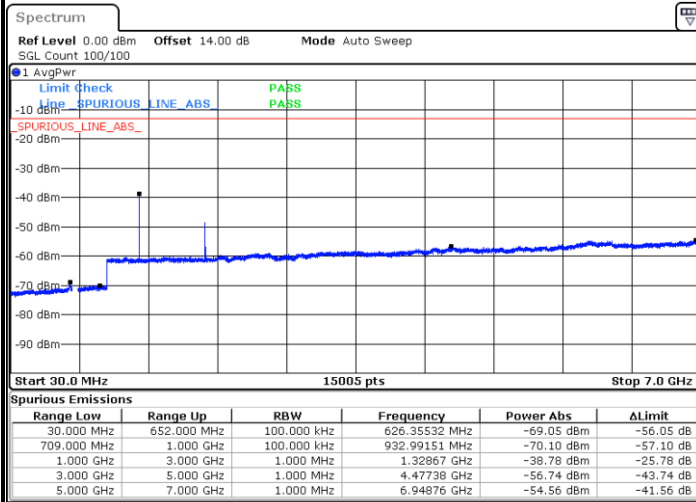




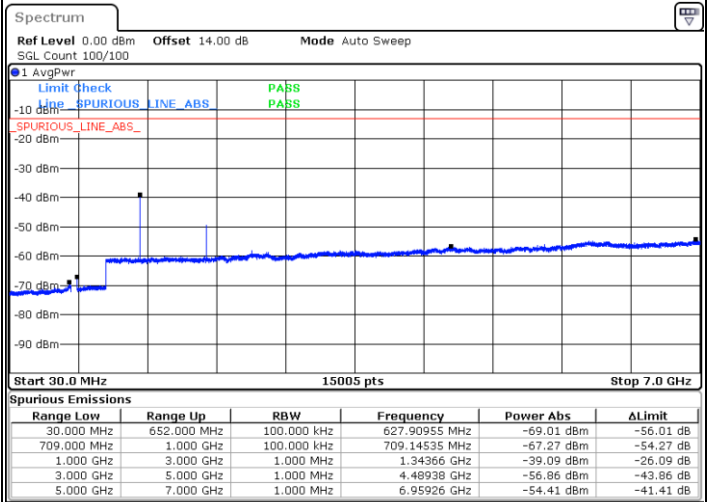
LTE Band 71 / 20MHz

Lowest Channel / 64QAM



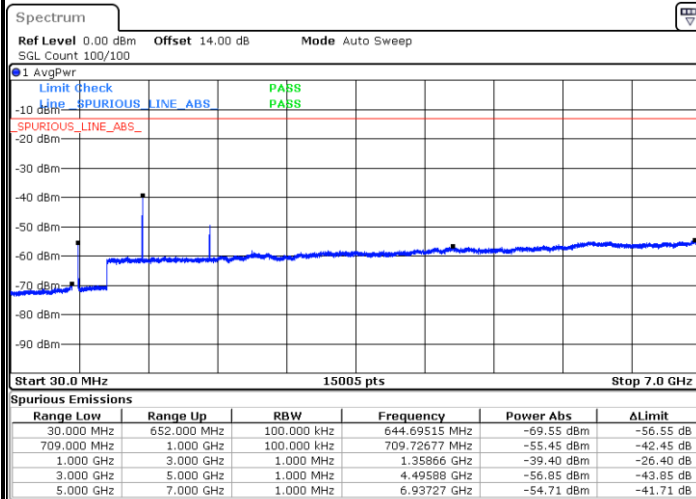
Date: 12.AUG.2021 12:34:29

Middle Channel / 64QAM



Date: 12.AUG.2021 12:36:21

Highest Channel / 64QAM



Date: 12.AUG.2021 12:42:20

**Frequency Stability**

Test Conditions		LTE Band 71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0044	PASS
40	Normal Voltage	0.0229	
30	Normal Voltage	0.0241	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0209	
0	Normal Voltage	0.0231	
-10	Normal Voltage	0.0220	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0043	
20	Maximum Voltage	0.0234	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 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

For Ant1:

LTE Band 12 / 10MHz / 16QAM									
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	1406	-64.09	-13	-51.09	-73.29	-67.34	4.00	9.40	H
	2109	-63.53	-13	-50.53	-75.28	-67.10	4.88	10.60	H
	2812	-62.37	-13	-49.37	-76.67	-67.30	5.52	12.60	H
	1406	-64.42	-13	-51.42	-73.27	-67.67	4.00	9.40	V
	2109	-62.94	-13	-49.94	-75.18	-66.51	4.88	10.60	V
	2812	-62.55	-13	-49.55	-76.57	-67.48	5.52	12.60	V

LTE Band 13 / 5MHz / 16QAM									
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	1559.5	-65.20	-42.15	-23.05	-73.92	-68.45	4.00	9.40	H
	2339.25	-62.63	-13	-49.63	-75.92	-66.20	4.88	10.60	H
	3119	-60.59	-13	-47.59	-76.00	-65.52	5.52	12.60	H
	1559.5	-65.13	-42.15	-22.98	-73.93	-68.38	4.00	9.40	V
	2339.25	-62.65	-13	-49.65	-75.94	-66.22	4.88	10.60	V
	3119	-60.66	-13	-47.66	-76.11	-65.59	5.52	12.60	V

LTE Band 13 / 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)
Middle	1559.5	-65.81	-42.15	-23.66	-74.53	-69.06	4.00	9.40	H
	2339.25	-63.10	-13	-50.10	-76.39	-66.67	4.88	10.60	H
	3119	-61.48	-13	-48.48	-76.89	-66.41	5.52	12.60	H
	1559.5	-65.77	-42.15	-23.62	-74.57	-69.02	4.00	9.40	V
	2339.25	-62.56	-13	-49.56	-75.85	-66.13	4.88	10.60	V
	3119	-61.29	-13	-48.29	-76.74	-66.22	5.52	12.60	V



LTE Band 25 / 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)
Middle	3747	-59.27	-13	-46.27	-75.99	-66.02	5.85	12.60	H
	5620.5	-47.79	-13	-34.79	-67.94	-53.59	7.30	13.10	H
	7494	-53.97	-13	-40.97	-78.67	-57.12	8.35	11.50	H
	3747	-59.64	-13	-46.64	-76.29	-66.39	5.85	12.60	V
	5620.5	-45.95	-13	-32.95	-65.82	-51.75	7.30	13.10	V
	7494	-53.97	-13	-40.97	-78.66	-57.12	8.35	11.50	V

LTE Band 26 / 15MHz / 16QAM									
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	1659.5	-65.29	-13	-52.29	-73.96	-68.54	4.00	9.40	H
	2489.25	-61.40	-13	-48.40	-74.23	-64.97	4.88	10.60	H
	3319	-61.99	-13	-48.99	-76.71	-66.92	5.52	12.60	H
	1659.5	-65.37	-13	-52.37	-73.64	-68.62	4.00	9.40	V
	2489.25	-62.78	-13	-49.78	-75.57	-66.35	4.88	10.60	V
	3319	-62.34	-13	-49.34	-76.84	-67.27	5.52	12.60	V

LTE Band 66 / 20MHz / 16QAM									
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	3472	-50.34	-13	-37.34	-65.72	-57.19	5.65	12.50	H
	5208	-50.86	-13	-37.86	-70.19	-56.53	7.13	12.80	H
	6944	-54.89	-13	-41.89	-78.82	-58.29	8.40	11.80	H
	3472	-52.28	-13	-39.28	-67.68	-59.13	5.65	12.50	V
	5208	-54.48	-13	-41.48	-74.06	-60.15	7.13	12.80	V
	6944	-54.73	-13	-41.73	-79.13	-58.13	8.40	11.80	V

LTE Band 71 / 20MHz / 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)
Middle	1343	-64.92	-13	-51.92	-73.26	-68.17	4.00	9.40	H
	2014.5	-64.42	-13	-51.42	-74.57	-67.99	4.88	10.60	H
	2686	-59.27	-13	-46.27	-72.84	-64.20	5.52	12.60	H
	1343	-64.92	-13	-51.92	-72.89	-68.17	4.00	9.40	V
	2014.5	-64.57	-13	-51.57	-74.61	-68.14	4.88	10.60	V
	2686	-59.41	-13	-46.41	-73.00	-64.34	5.52	12.60	V

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



For Ant2:

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)
Middle	1406	-63.30	-13	-50.30	-72.50	-66.55	4.00	9.40	H
	2109	-62.53	-13	-49.53	-74.28	-66.10	4.88	10.60	H
	2812	-62.02	-13	-49.02	-76.32	-66.95	5.52	12.60	H
	1406	-64.00	-13	-51.00	-72.85	-67.25	4.00	9.40	V
	2109	-62.22	-13	-49.22	-74.46	-65.79	4.88	10.60	V
	2812	-62.30	-13	-49.30	-76.32	-67.23	5.52	12.60	V

LTE Band 25 / 20MHz / 16QAM									
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	3747	-58.69	-13	-45.69	-75.41	-65.44	5.85	12.60	H
	5620.5	-49.03	-13	-36.03	-69.18	-54.83	7.30	13.10	H
	7494	-54.59	-13	-41.59	-79.29	-57.74	8.35	11.50	H
	3747	-59.56	-13	-46.56	-76.21	-66.31	5.85	12.60	V
	5620.5	-48.28	-13	-35.28	-68.15	-54.08	7.30	13.10	V
	7494	-54.63	-13	-41.63	-79.32	-57.78	8.35	11.50	V

LTE Band 26 / 15MHz / 16QAM									
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	1659.5	-65.52	-13	-52.52	-74.19	-68.77	4.00	9.40	H
	2489.25	-63.18	-13	-50.18	-76.01	-66.75	4.88	10.60	H
	3319	-62.23	-13	-49.23	-76.95	-67.16	5.52	12.60	H
	1659.5	-66.02	-13	-53.02	-74.29	-69.27	4.00	9.40	V
	2489.25	-59.69	-13	-46.69	-72.48	-63.26	4.88	10.60	V
	3319	-62.38	-13	-49.38	-76.88	-67.31	5.52	12.60	V

LTE Band 71 / 20MHz / 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)
Middle	1343	-61.59	-13	-48.59	-69.93	-64.84	4.00	9.40	H
	2014.5	-64.72	-13	-51.72	-74.87	-68.29	4.88	10.60	H
	2686	-61.35	-13	-48.35	-74.92	-66.28	5.52	12.60	H
	1343	-62.54	-13	-49.54	-70.51	-65.79	4.00	9.40	V
	2014.5	-65.01	-13	-52.01	-75.05	-68.58	4.88	10.60	V
	2686	-61.61	-13	-48.61	-75.20	-66.54	5.52	12.60	V

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