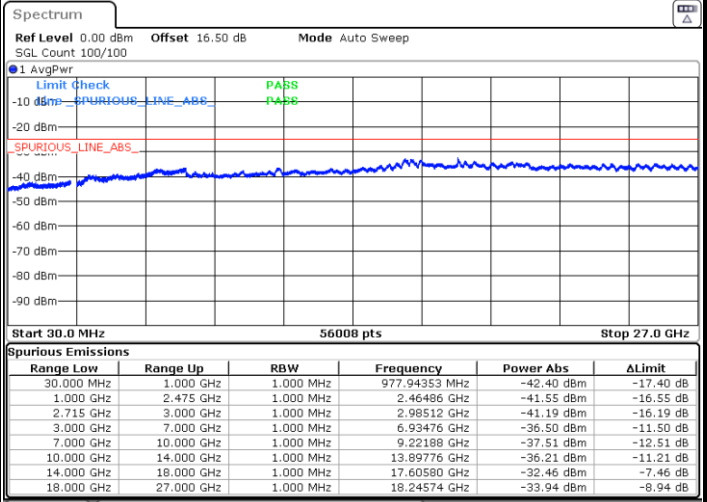
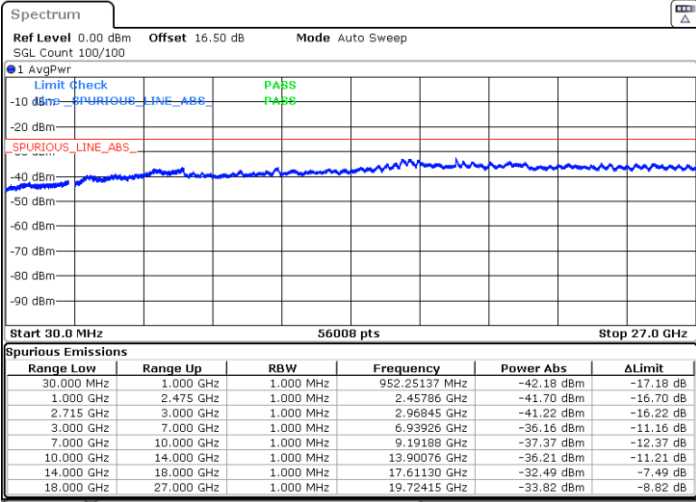




LTE Band 41 / 20MHz

Lowest Channel / QPSK

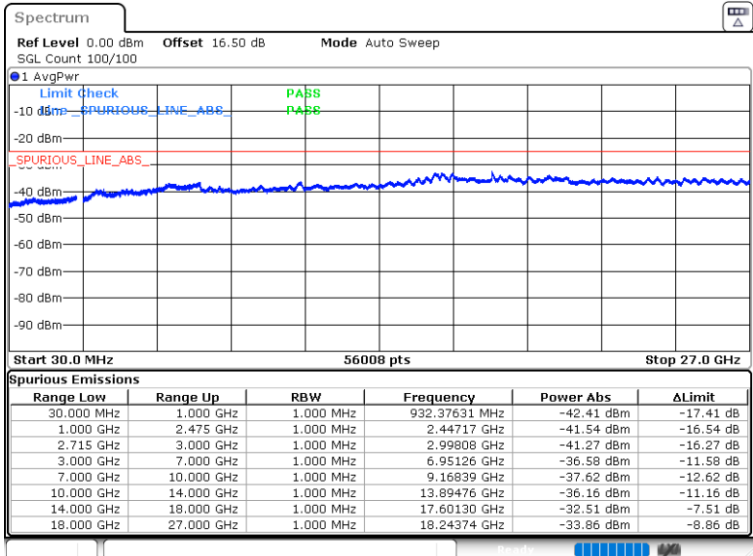
Middle Channel / QPSK



Date: 19.APR.2022 19:36:18

Date: 19.APR.2022 19:37:30

Highest Channel / QPSK



Date: 19.APR.2022 19:38:44



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0052	PASS
40	Normal Voltage	0.0042	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0064	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0053	
-20	Normal Voltage	0.0042	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0043	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

- 1. Normal Voltage =14 V. ; Battery End Point (BEP) =12 V. ; Maximum Voltage =16 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

LTE Band 5

LTE Band 5 / 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	1664	-60.75	-13	-47.75	-70.44	-66.40	0.93	8.72	H
	2496	-56.76	-13	-43.76	-70.71	-64.16	1.15	10.69	H
	3328	-54.67	-13	-41.67	-70.68	-63.28	1.33	12.09	H
									H
									H
									H
									H
	1664	-61.28	-13	-48.28	-70.38	-66.93	0.93	8.72	V
	2496	-56.17	-13	-43.17	-70.33	-63.57	1.15	10.69	V
	3328	-54.48	-13	-41.48	-70.95	-63.09	1.33	12.09	V
									V
									V
									V
									V

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



LTE Band 26

LTE Band 26 / 15MHz / 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	1648	-58.53	-13	-45.53	-68.18	-64.12	0.92	8.66	H
	2472	-56.20	-13	-43.20	-70.15	-63.57	1.14	10.66	H
	3296	-54.85	-13	-41.85	-70.91	-63.39	1.32	12.01	H
									H
									H
									H
									H
	1648	-56.94	-13	-43.94	-66.06	-62.53	0.92	8.66	V
	2472	-56.47	-13	-43.47	-70.57	-63.84	1.14	10.66	V
	3296	-54.52	-13	-41.52	-71.05	-63.06	1.32	12.01	V
									V
									V
									V
									V
Middle	1656	-61.11	-13	-48.11	-70.78	-66.73	0.92	8.69	H
	2490	-56.95	-13	-43.95	-70.91	-64.34	1.15	10.69	H
	3320	-54.77	-13	-41.77	-70.79	-63.36	1.33	12.07	H
									H
									H
									H
									H
	1656	-61.79	-13	-48.79	-70.89	-67.41	0.92	8.69	V
	2490	-56.62	-13	-43.62	-70.77	-64.01	1.15	10.69	V
	3320	-54.04	-13	-41.04	-70.52	-62.63	1.33	12.07	V
									V
									V
									V
									V
								V	



Highest	1672	-51.76	-13	-38.76	-61.48	-57.44	0.93	8.75	H
	2504	-55.22	-13	-42.22	-69.18	-62.62	1.15	10.70	H
	3339	-55.02	-13	-42.02	-71	-63.65	1.33	12.11	H
									H
									H
									H
									H
	1672	-60.43	-13	-47.43	-69.52	-66.11	0.93	8.75	V
	2504	-56.11	-13	-43.11	-70.28	-63.51	1.15	10.70	V
	3339	-54.34	-13	-41.34	-70.79	-62.97	1.33	12.11	V
									V
									V
									V
									V

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



LTE Band 2

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)
Middle	3744	-52.48	-13	-39.48	-71.14	-63.70	1.42	12.65	H
	5616	-48.87	-13	-35.87	-71.71	-60.43	1.74	13.30	H
	7482	-45.62	-13	-32.62	-72.27	-54.77	1.98	11.13	H
									H
									H
									H
									H
	3744	-52.25	-13	-39.25	-71.11	-63.47	1.42	12.65	V
	5616	-49.36	-13	-36.36	-71.85	-60.92	1.74	13.30	V
	7482	-45.53	-13	-32.53	-72.12	-54.68	1.98	11.13	V
									V
									V
									V
									V

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



LTE Band 25

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)
Lowest	3702	-52.47	-13	-39.47	-71.03	-63.68	1.41	12.62	H
	5553	-48.82	-13	-35.82	-71.72	-60.38	1.74	13.30	H
	7404	-44.90	-13	-31.90	-71.88	-54.22	1.94	11.25	H
									H
									H
									H
									H
	3702	-52.15	-13	-39.15	-70.86	-63.36	1.41	12.62	V
	5553	-49.59	-13	-36.59	-72.02	-61.15	1.74	13.30	V
	7404	-44.95	-13	-31.95	-71.78	-54.27	1.94	11.25	V
									V
									V
									V
									V
Middle	3744	-52.46	-13	-39.46	-71.12	-63.68	1.42	12.65	H
	5616	-48.79	-13	-35.79	-71.63	-60.35	1.74	13.30	H
	7484	-45.56	-13	-32.56	-72.2	-54.70	1.98	11.13	H
									H
									H
									H
									H
	3744	-52.08	-13	-39.08	-70.94	-63.30	1.42	12.65	V
	5616	-49.14	-13	-36.14	-71.64	-60.70	1.74	13.30	V
	7482	-45.38	-13	-32.38	-71.97	-54.53	1.98	11.13	V
									V
									V
									V
									V
								V	



Highest	3792	-52.00	-13	-39.00	-70.77	-63.24	1.44	12.68	H
	5688	-48.54	-13	-35.54	-71.72	-60.11	1.73	13.30	H
	7584	-45.90	-13	-32.90	-72.04	-55.02	2.00	11.12	H
									H
									H
									H
									H
	3792	-51.89	-13	-38.89	-70.92	-63.13	1.44	12.68	V
	5688	-48.97	-13	-35.97	-71.62	-60.54	1.73	13.30	V
	7584	-45.76	-13	-32.76	-71.86	-54.88	2.00	11.12	V
									V
									V
									V
									V

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



LTE Band 7

LTE Band 7 / 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	5052	-49.67	-25	-24.67	-71.2	-60.72	1.62	12.67	H
	7578	-45.73	-25	-20.73	-71.9	-54.84	2.00	11.12	H
	10107	-42.11	-25	-17.11	-71.38	-50.93	2.40	11.21	H
									H
									H
									H
									H
	5052	-50.07	-25	-25.07	-71.23	-61.12	1.62	12.67	V
	7578	-45.89	-25	-20.89	-72.02	-55.00	2.00	11.12	V
	10107	-41.71	-25	-16.71	-71.55	-50.53	2.40	11.21	V
									V
									V
									V
									V

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



LTE Band 38

LTE Band 38 / 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	5172	-50.35	-25	-25.35	-71.94	-61.54	1.65	12.84	H
	7758	-45.52	-25	-20.52	-71.62	-54.65	2.03	11.15	H
	10341	-41.28	-25	-16.28	-71.29	-49.91	2.39	11.03	H
									H
									H
									H
									H
	5172	-50.00	-25	-25.00	-71.39	-61.19	1.65	12.84	V
	7758	-45.78	-25	-20.78	-71.63	-54.91	2.03	11.15	V
	10341	-41.35	-25	-16.35	-71.41	-49.98	2.39	11.03	V
									V
									V
									V
									V

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



LTE Band 41(HPUE)

LTE Band 41 / 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	4994	-48.93	-25	-23.93	-71.56	-60.18	1.35	12.60	H
	7491	-42.03	-25	-17.03	-72.17	-51.33	1.92	11.22	H
	9988	-36.96	-25	-11.96	-71.95	-45.76	2.29	11.09	H
									H
									H
									H
									H
	4994	-48.17	-25	-23.17	-71.25	-59.42	1.35	12.60	V
	7491	-42.25	-25	-17.25	-72.51	-51.55	1.92	11.22	V
	9988	-37.97	-25	-12.97	-71.62	-46.77	2.29	11.09	V
									V
									V
									V
									V
Middle	5168	-48.79	-25	-23.79	-71.75	-60.18	1.29	12.68	H
	7752	-41.53	-25	-16.53	-71.78	-51.32	1.88	11.68	H
	10336	-36.32	-25	-11.32	-71.61	-44.96	2.26	10.90	H
									H
									H
									H
									H
	5168	-48.29	-25	-23.29	-72.16	-59.68	1.29	12.68	V
	7752	-41.19	-25	-16.19	-71.7	-50.98	1.88	11.68	V
	10336	-37.56	-25	-12.56	-72.02	-46.20	2.26	10.90	V
									V
									V
									V
									V



Highest	5342	-48.63	-25	-23.63	-72.77	-60.18	1.57	13.13	H
	8013	-40.82	-25	-15.82	-72.2	-50.07	2.00	11.25	H
	10684	-37.13	-25	-12.13	-72.96	-45.59	2.23	10.69	H
									H
									H
									H
									H
	5342	-46.99	-25	-21.99	-72.6	-58.54	1.57	13.13	V
	8013	-40.59	-25	-15.59	-72.34	-49.84	2.00	11.25	V
	10684	-37.08	-25	-12.08	-72.53	-45.54	2.23	10.69	V
									V
									V
									V
									V

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



LTE Band 4

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	3422	-54.61	-13	-41.61	-71.43	-65.58	1.35	12.31	H
	5133	-49.54	-13	-36.54	-71.11	-60.68	1.64	12.79	H
	6844	-46.59	-13	-33.59	-72.01	-56.97	1.74	12.12	H
									H
									H
									H
									H
	3422	-54.29	-13	-41.29	-71.53	-65.26	1.35	12.31	V
	5133	-50.02	-13	-37.02	-71.34	-61.16	1.64	12.79	V
	6844	-47.14	-13	-34.14	-72.17	-57.52	1.74	12.12	V
									V
									V
									V
									V
Middle	3447	-54.02	-13	-41.02	-71.11	-60.20	1.59	7.77	H
	5170	-49.93	-13	-36.93	-71.52	-57.20	2.43	9.70	H
	6894	-46.22	-13	-33.22	-71.9	-54.27	2.62	10.67	H
									H
									H
									H
									H
	3447	-53.59	-13	-40.59	-71.07	-59.77	1.59	7.77	V
	5170	-50.15	-13	-37.15	-71.53	-57.42	2.43	9.70	V
	6894	-46.89	-13	-33.89	-72.14	-54.94	2.62	10.67	V
									V
									V
									V
									V



Highest	3472	-54.00	-13	-41.00	-71.35	-65.08	1.35	12.43	H
	5208	-49.87	-13	-36.87	-71.51	-61.10	1.66	12.89	H
	6944	-45.99	-13	-32.99	-71.92	-56.24	1.73	11.98	H
									H
									H
									H
									H
	3472	-53.84	-13	-40.84	-71.57	-64.92	1.35	12.43	V
	5208	-50.32	-13	-37.32	-71.79	-61.55	1.66	12.89	V
	6944	-46.38	-13	-33.38	-71.85	-56.63	1.73	11.98	V
									V
									V
									V
									V

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