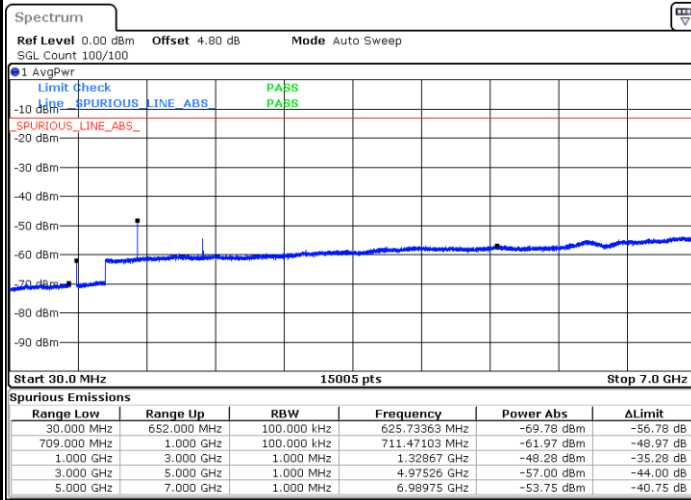




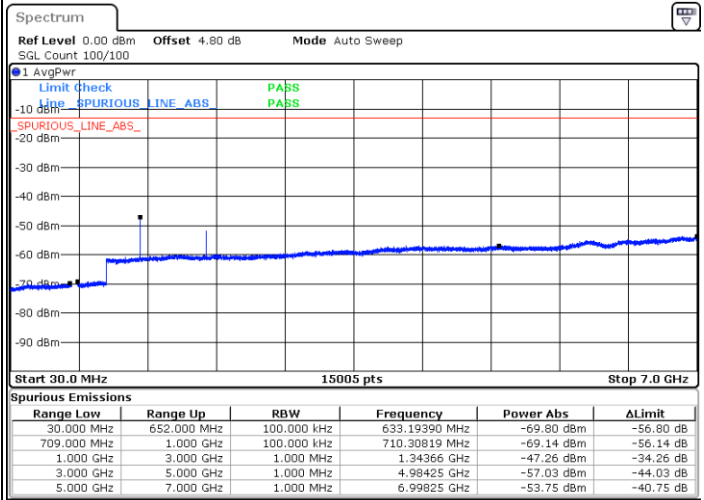
LTE Band 71 / 20MHz

Lowest Channel / QPSK



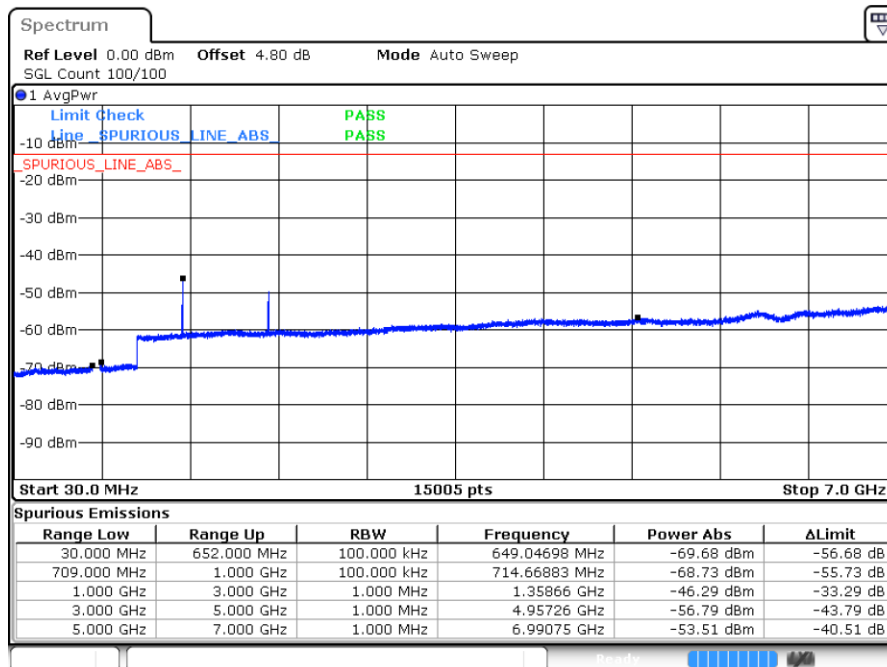
Date: 13 JAN 2023 01:24:09

Middle Channel / QPSK



Date: 13 JAN 2023 01:25:43

Highest Channel / QPSK



Date: 13 JAN 2023 01:27:21

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	0.0025	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0030	
-10	Normal Voltage	0.0039	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0000	
20	End Point	0.0008	

Note:

1. Normal Voltage =3.8V. ; End Point (BEP) =3.55 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

Test Engineer :	Carl Ni	Temperature :	23~25°C
		Relative Humidity :	41~42%

LTE Band 7 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5000	-61.78	-25	-36.78	-71.99	3.03	13.24	H
	7504	-62.33	-25	-37.33	-71.78	3.56	13.01	H
	10000	-60.71	-25	-35.71	-70.23	3.92	13.44	H
	5000	-61.85	-25	-36.85	-72.06	3.03	13.24	V
	7504	-59.83	-25	-34.83	-69.28	3.56	13.01	V
	10000	-58.73	-25	-33.73	-68.25	3.92	13.44	V
Middle	5052	-61.55	-25	-36.55	-71.76	3.03	13.24	H
	7580	-63.03	-25	-38.03	-72.48	3.56	13.01	H
	10100	-61.04	-25	-36.04	-70.56	3.92	13.44	H
	5052	-60.96	-25	-35.96	-71.17	3.03	13.24	V
	7580	-60.64	-25	-35.64	-70.09	3.56	13.01	V
	10100	-56.76	-25	-31.76	-66.28	3.92	13.44	V
Highest	5104	-63.41	-25	-38.41	-73.62	3.03	13.24	H
	7652	-62.50	-25	-37.50	-71.95	3.56	13.01	H
	10200	-61.94	-25	-36.94	-71.46	3.92	13.44	H
	5104	-62.62	-25	-37.62	-72.83	3.03	13.24	V
	7652	-60.22	-25	-35.22	-69.67	3.56	13.01	V
	10200	-58.50	-25	-33.50	-68.02	3.92	13.44	V

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



LTE Band 12 / 20MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1400	-68.62	-13	-55.62	-75.59	1.58	10.70	H
	2098	-63.75	-13	-50.75	-72.00	2.102	12.50	H
	2798	-58.94	-13	-45.94	-67.83	2.856	13.90	H
	1400	-67.19	-13	-54.19	-74.16	1.58	10.70	V
	2096	-58.20	-13	-45.20	-66.45	2.10	12.50	V
	2800	-57.30	-13	-44.30	-66.19	2.86	13.90	V
Middle	1406	-67.67	-13	-54.67	-74.64	1.58	10.70	H
	2110	-63.62	-13	-50.62	-71.87	2.102	12.50	H
	2812	-60.89	-13	-47.89	-69.78	2.856	13.90	H
	1406	-66.38	-13	-53.38	-73.35	1.58	10.70	V
	2110	-59.43	-13	-46.43	-67.68	2.10	12.50	V
	2812	-60.40	-13	-47.40	-69.29	2.86	13.90	V
Highest	1414	-66.87	-13	-53.87	-73.84	1.58	10.70	H
	2120	-62.03	-13	-49.03	-70.28	2.102	12.50	H
	2826	-58.62	-13	-45.62	-67.51	2.856	13.90	H
	1414	-64.82	-13	-51.82	-71.79	1.58	10.70	V
	2120	-57.89	-13	-44.89	-66.14	2.10	12.50	V
	2826	-55.46	-13	-42.46	-64.35	2.86	13.90	V

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

LTE Band 13 / 5MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1552	-67.64	-13	-54.64	-70.27	1.09	5.87	H
	2336	-55.04	-13	-42.04	-57.44	1.37	5.92	H
	3112	-61.84	-13	-48.84	-65.73	1.64	7.68	H
	1552	-66.79	-13	-53.79	-69.42	1.09	5.87	V
	2336	-51.49	-13	-38.49	-53.89	1.37	5.92	V
	3112	-61.47	-13	-48.47	-65.36	1.64	7.68	V
Middle	1560	-67.02	-42.15	-24.87	-69.65	1.09	5.87	H
	2344	-54.68	-13	-41.68	-57.08	1.37	5.92	H
	3120	-62.32	-13	-49.32	-66.21	1.64	7.68	H
	1560	-65.96	-42.15	-23.81	-68.59	1.09	5.87	V
	2344	-52.48	-13	-39.48	-54.88	1.37	5.92	V
	3120	-62.00	-13	-49.00	-65.89	1.64	7.68	V
Highest	1568	-66.83	-42.15	-24.68	-69.46	1.09	5.87	H
	2352	-53.51	-13	-40.51	-55.91	1.37	5.92	H
	3128	-61.64	-13	-48.64	-65.53	1.64	7.68	H
	1568	-66.27	-42.15	-24.12	-68.90	1.09	5.87	V
	2352	-53.01	-13	-40.01	-55.41	1.37	5.92	V
	3128	-61.95	-13	-48.95	-65.84	1.64	7.68	V

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



LTE Band 13 / 10MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1552	-63.38	-13	-50.38	-66.01	1.09	5.87	H
	2336	-45.58	-13	-32.58	-47.98	1.37	5.92	H
	3112	-61.75	-13	-48.75	-65.64	1.64	7.68	H
	1552	-63.21	-13	-50.21	-65.84	1.09	5.87	V
	2336	-43.43	-13	-30.43	-45.83	1.37	5.92	V
	3112	-61.39	-13	-48.39	-65.28	1.64	7.68	V

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

LTE Band 41 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4994.18	-61.94	-25	-36.94	-72.15	3.03	13.24	H
	7491.27	-63.23	-25	-38.23	-72.68	3.56	13.01	H
	9988.36	-60.63	-25	-35.63	-70.15	3.92	13.44	H
	4994.18	-61.88	-25	-36.88	-72.09	3.03	13.24	V
	7491.27	-61.17	-25	-36.17	-70.62	3.56	13.01	V
	9988.36	-59.21	-25	-34.21	-68.73	3.92	13.44	V
Middle	5168	-63.39	-25	-38.39	-73.60	3.03	13.24	H
	7752	-62.23	-25	-37.23	-71.68	3.56	13.01	H
	10336	-60.89	-25	-35.89	-70.41	3.92	13.44	H
	5168	-62.57	-25	-37.57	-72.78	3.03	13.24	V
	7752	-61.69	-25	-36.69	-71.14	3.56	13.01	V
	10336	-57.83	-25	-32.83	-67.35	3.92	13.44	V
Highest	5342.18	-61.89	-25	-36.89	-72.10	3.03	13.24	H
	8013.27	-62.38	-25	-37.38	-71.83	3.56	13.01	H
	10684.36	-61.07	-25	-36.07	-70.59	3.92	13.44	H
	5342.18	-58.60	-25	-33.60	-68.81	3.03	13.24	V
	8013.27	-61.12	-25	-36.12	-70.57	3.56	13.01	V
	10684.36	-57.38	-25	-32.38	-66.90	3.92	13.44	V

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



LTE Band 71 / 20MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1328	-69.04	-13	-56.04	-70.79	1.02	4.92	H
	1992	-63.07	-13	-50.07	-65.04	1.27	5.39	H
	2656	-61.09	-13	-48.09	-64.02	1.49	6.57	H
	1328	-68.06	-13	-55.06	-69.81	1.02	4.92	V
	1992	-62.36	-13	-49.36	-64.33	1.27	5.39	V
	2656	-60.41	-13	-47.41	-63.34	1.49	6.57	V
Middle	1352	-69.30	-13	-56.30	-71.05	1.02	4.92	H
	2024	-64.05	-13	-51.05	-66.02	1.27	5.39	H
	2696	-61.89	-13	-48.89	-64.82	1.49	6.57	H
	1352	-68.02	-13	-55.02	-69.77	1.02	4.92	V
	2024	-63.26	-13	-50.26	-65.23	1.27	5.39	V
	2696	-61.12	-13	-48.12	-64.05	1.49	6.57	V
Highest	1360	-67.93	-13	-54.93	-69.68	1.02	4.92	H
	2040	-63.42	-13	-50.42	-65.39	1.27	5.39	H
	2712	-60.87	-13	-47.87	-63.80	1.49	6.57	H
	1360	-67.53	-13	-54.53	-69.28	1.02	4.92	V
	2040	-62.60	-13	-49.60	-64.57	1.27	5.39	V
	2712	-60.60	-13	-47.60	-63.53	1.49	6.57	V

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