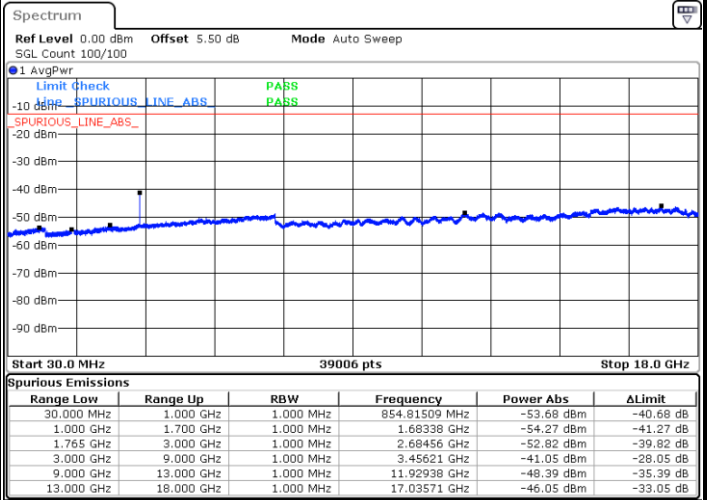
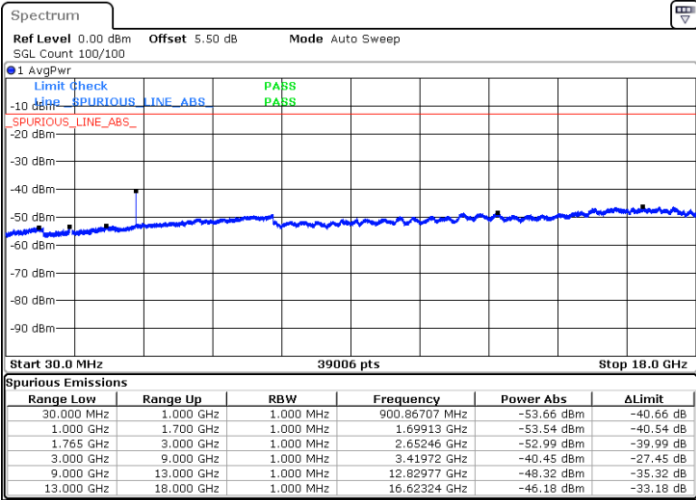




LTE Band 4 / 10MHz

Lowest Channel / QPSK

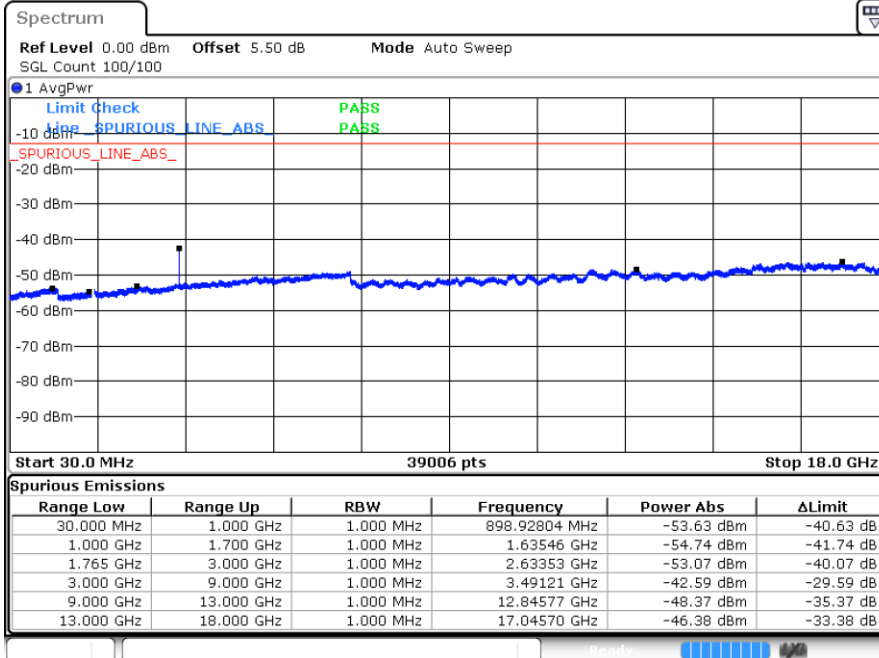
Middle Channel / QPSK



Date: 27.DEC.2021 01:44:12

Date: 27.DEC.2021 01:56:37

Highest Channel / QPSK



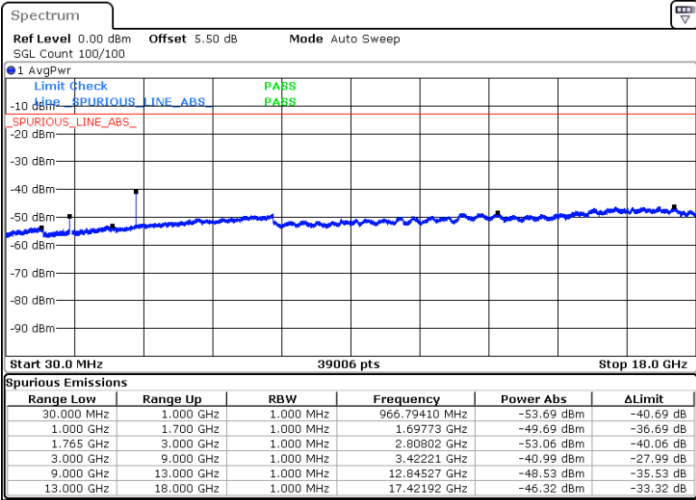
Date: 27.DEC.2021 01:58:59



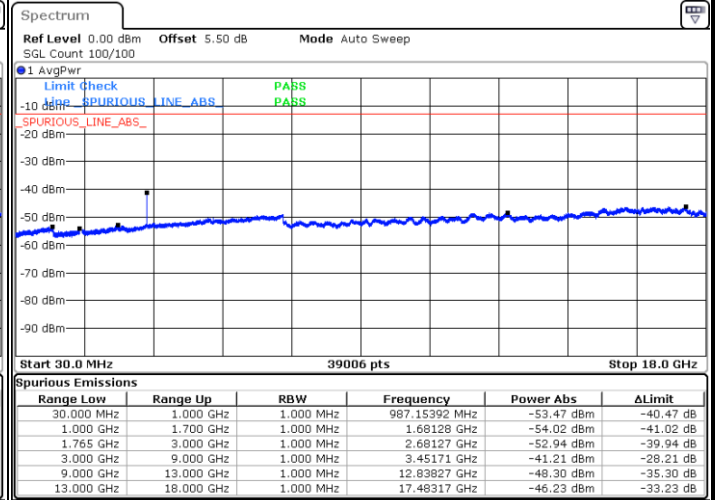
LTE Band 4 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

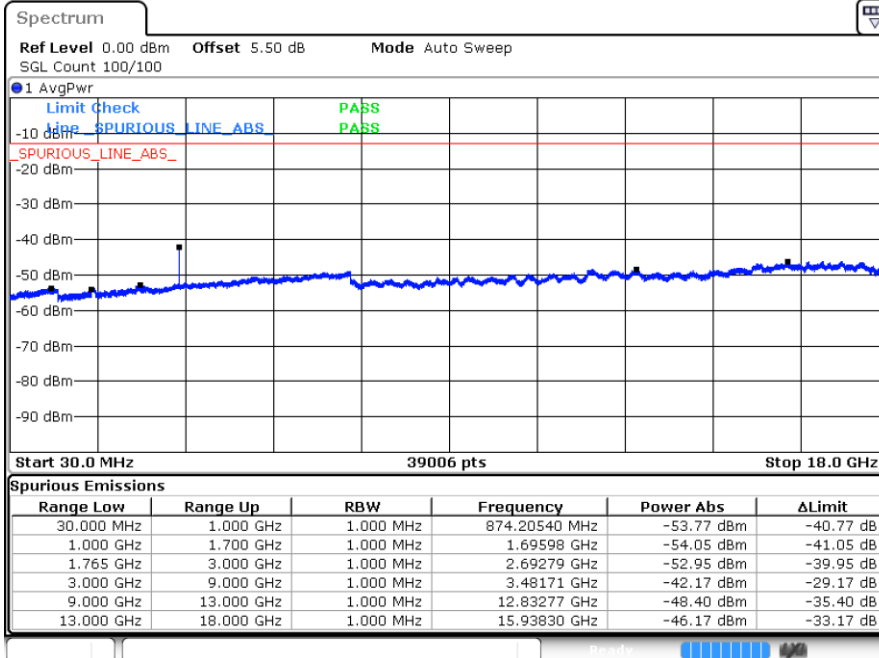


Date: 27.DEC.2021 02:11:24



Date: 27.DEC.2021 02:23:48

Highest Channel / QPSK



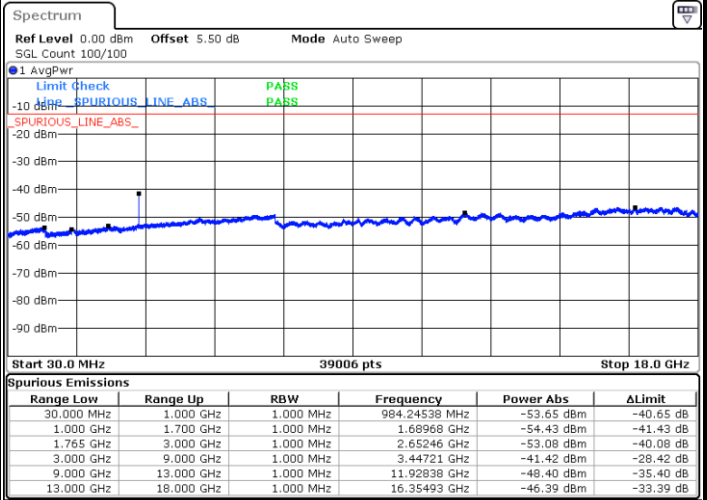
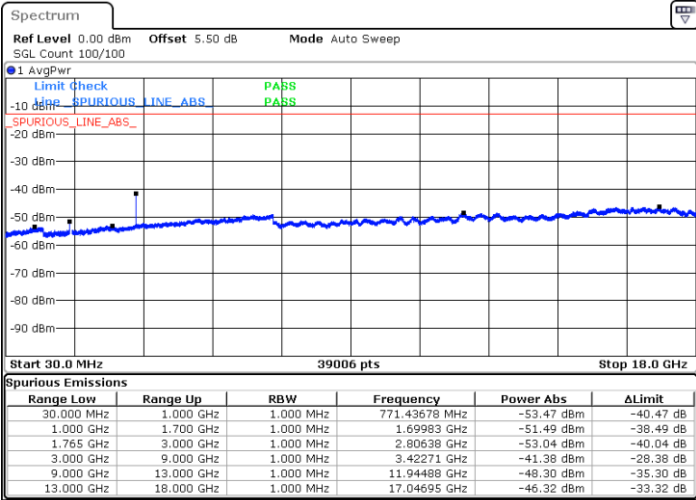
Date: 27.DEC.2021 02:26:10



LTE Band 4 / 20MHz

Lowest Channel / QPSK

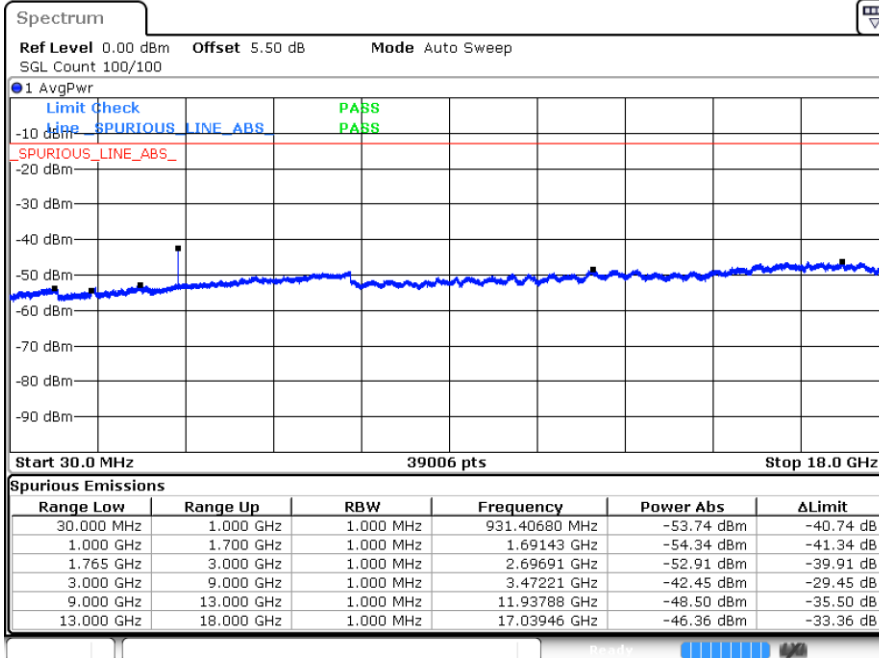
Middle Channel / QPSK



Date: 27.DEC.2021 02:38:35

Date: 27.DEC.2021 02:51:00

Highest Channel / QPSK



Date: 27.DEC.2021 02:53:21



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage =3.87 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

Test Engineer :	Chris Chen	Temperature :	22~23°C
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for the different antenna, we choose the worst antenna mode to test.

LTE Band 2 / 20MHz / QPSK for Ant.0								
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)
Middle	3742.18	-62.92	-13	-49.92	-75.18	2.64	14.90	H
	5613	-50.94	-13	-37.94	-62.80	2.94	14.80	H
	7488	-54.41	-13	-41.41	-64.18	3.39	13.16	H
	9360	-40.74	-13	-27.74	-51.22	4.00	14.48	H
	11232	-41.71	-13	-28.71	-51.22	4.23	13.74	H
	13092	-46.19	-13	-33.19	-56.03	4.49	14.32	H
	14964	-46.41	-13	-33.41	-56.66	4.94	15.19	H
	3741	-62.35	-13	-49.35	-74.61	2.64	14.90	V
	5613	-54.06	-13	-41.06	-65.92	2.94	14.80	V
	7488	-53.76	-13	-40.76	-63.53	3.39	13.16	V
	9360	-36.97	-13	-23.97	-47.45	4.00	14.48	V
	11232	-39.66	-13	-26.66	-49.17	4.23	13.74	V
	13092	-46.39	-13	-33.39	-56.23	4.49	14.32	V
	14964	-49.57	-13	-36.57	-59.82	4.94	15.19	V

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

LTE Band 4 / 20MHz / QPSK for Ant.0								
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)
Middle	3450	-58.19	-13	-45.19	-68.93	2.604	13.34	H
	5175	-45.19	-13	-32.19	-55.70	3.011	13.52	H
	6900	-50.66	-13	-37.66	-60.86	3.271	13.47	H
	8625	-48.19	-13	-35.19	-55.16	5.527	12.5	H
	10335	-50.66	-13	-37.66	-57.52	6.038	12.9	H
	12060	-37.28	-13	-24.28	-44.48	6.726	13.93	H
	3450	-57.37	-13	-44.37	-68.11	2.604	13.34	V
	5175	-48.62	-13	-35.62	-59.13	3.011	13.52	V
	6900	-49.68	-13	-36.68	-59.88	3.271	13.47	V
	8625	-49.68	-13	-36.68	-56.65	5.527	12.50	V
	10335	-48.88	-13	-35.88	-55.74	6.038	12.90	V
	12060	-36.67	-13	-23.67	-43.87	6.726	13.93	V

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



LTE Band 12 / 10MHz / QPSK for Ant.0								
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	1408	-33.64	-13	-20.64	-40.61	1.58	10.70	H
	2112	-39.73	-13	-26.73	-47.98	2.102	12.50	H
	2812.36	-61.55	-13	-48.55	-70.44	2.856	13.90	H
	1408	-34.55	-13	-21.55	-41.52	1.58	10.70	V
	2112	-40.11	-13	-27.11	-48.36	2.10	12.50	V
	2816	-58.99	-13	-45.99	-67.88	2.86	13.90	V

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

LTE Band 13 / 5MHz / QPSK for Ant.0								
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	1560	-52.71	-42.15	-10.56	-55.34	1.09	5.87	H
	2336	-52.33	-13	-39.33	-54.73	1.37	5.92	H
	3119.36	-64.03	-13	-51.03	-67.92	1.64	7.68	H
	1560	-54.74	-42.15	-12.59	-57.37	1.09	5.87	V
	2336	-51.79	-13	-38.79	-54.19	1.37	5.92	V
	3119.36	-63.59	-13	-50.59	-67.48	1.64	7.68	V

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

LTE Band 13 / 10MHz / QPSK for Ant.0								
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	-48.91	-13	-35.91	-51.54	1.09	5.87	H
	2336	-49.88	-13	-36.88	-52.28	1.37	5.92	H
	3110.36	-64.15	-13	-51.15	-68.04	1.64	7.68	H
	1552	-52.35	-13	-39.35	-54.98	1.09	5.87	V
	2336	-48.93	-13	-35.93	-51.33	1.37	5.92	V
	3112	-63.25	-13	-50.25	-67.14	1.64	7.68	V

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



LTE Band 26 / 15MHz / QPSK for Ant.0								
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	1660	-60.76	-13	-47.76	-67.73	1.58	10.70	H
	2489.52	-60.46	-13	-47.46	-68.71	2.102	12.50	H
	3318	-65.32	-13	-52.32	-74.21	2.856	13.90	H
	1660	-63.91	-13	-50.91	-70.88	1.58	10.70	V
	2490	-61.35	-13	-48.35	-69.60	2.10	12.50	V
	3318	-64.51	-13	-51.51	-73.40	2.86	13.90	V

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



Appendix D. Reference Report

Please refer to Sporton report number FG1N1013B which is issued separately.