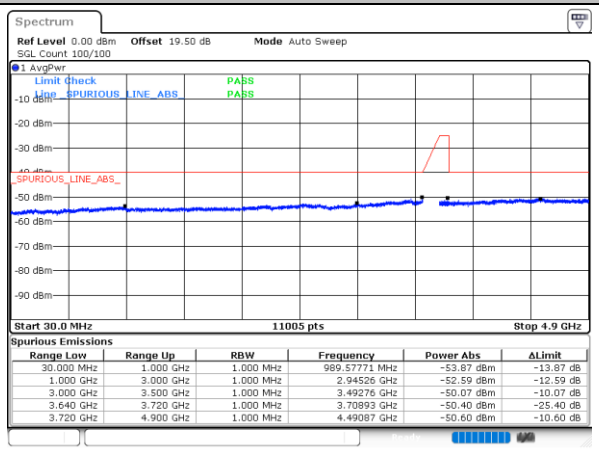
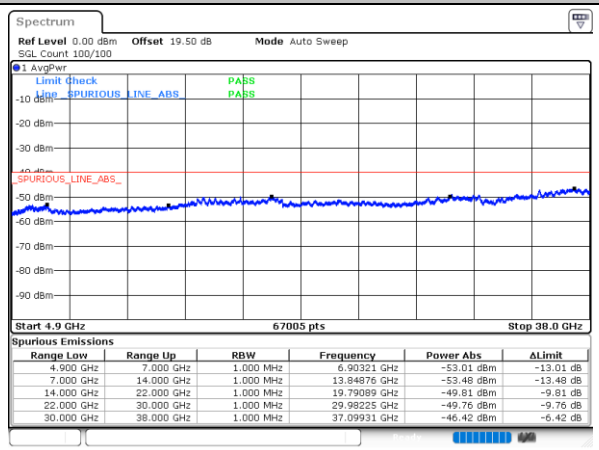
Conducted Spurious Emission

LTE Band 48C / 5MHz+20MHz

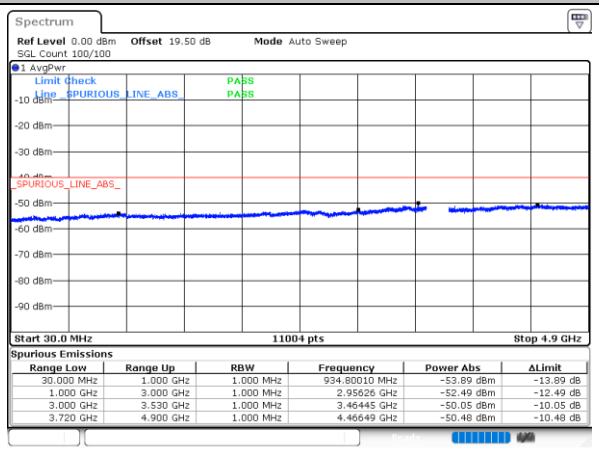
QPSK

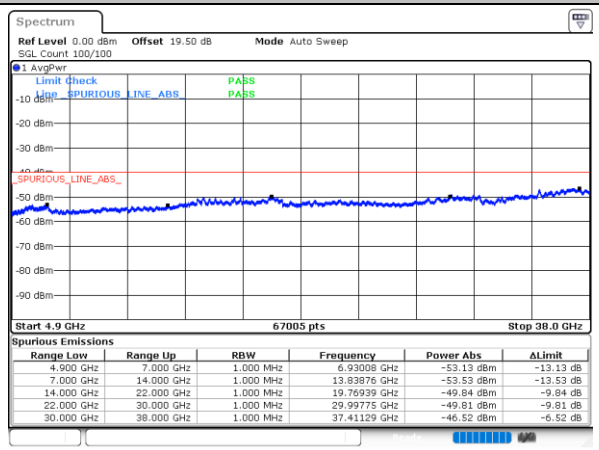
Lowest Channel / 1RB24 and 1RB0



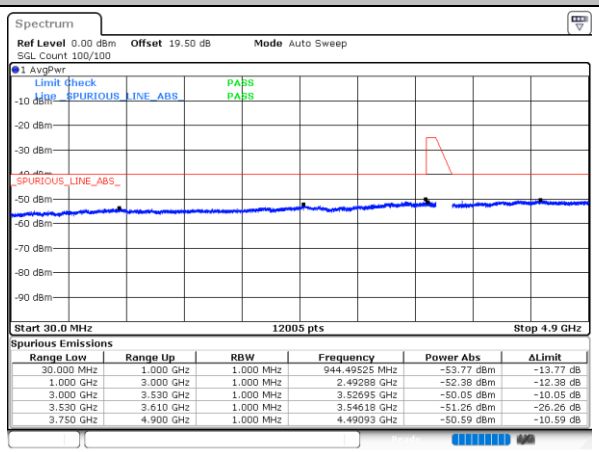


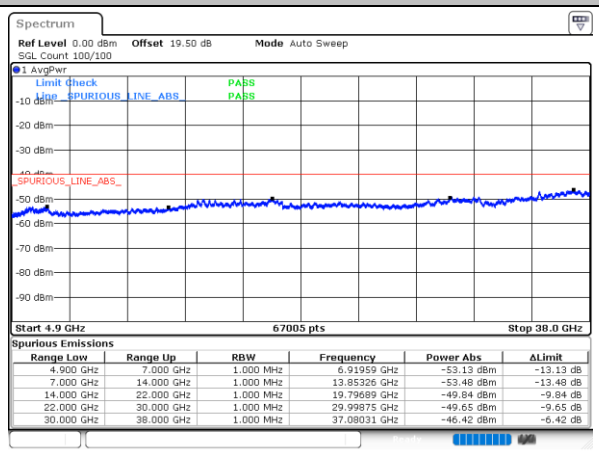
Middle Channel / 1RB24 and 1RB0





Highest Channel / 1RB24 and 1RB0

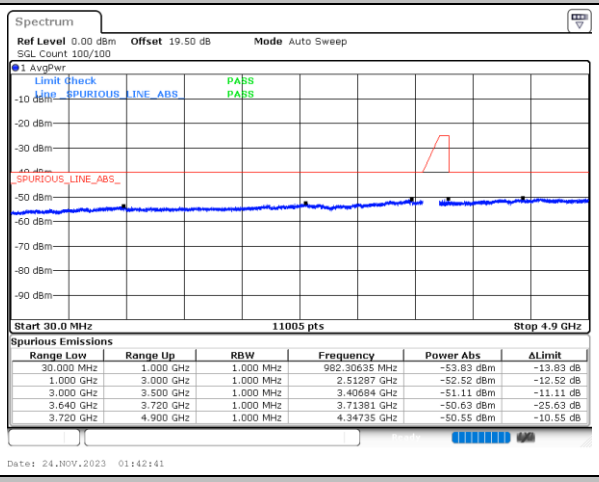


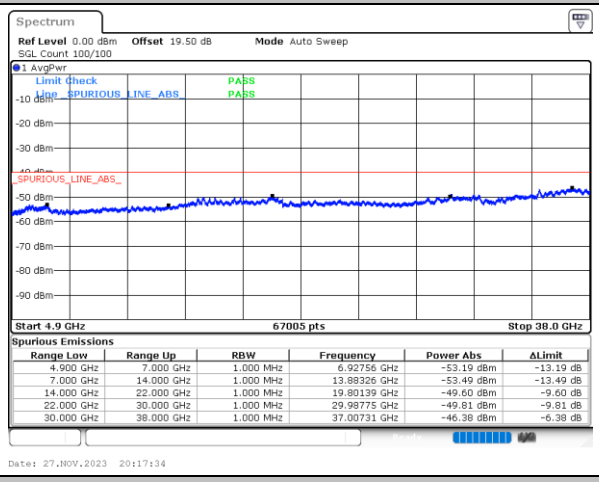


LTE Band 48C / 10MHz+20MHz

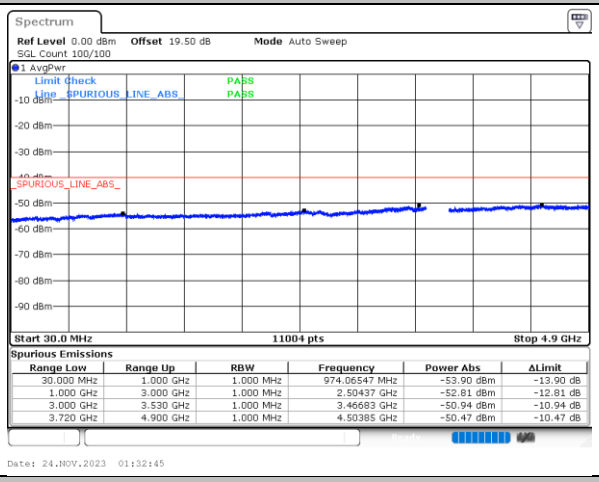
QPSK

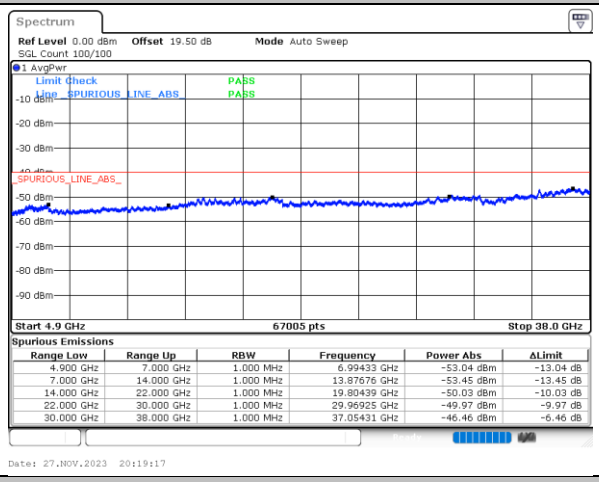
Lowest Channel / 1RB49 and 1RB0



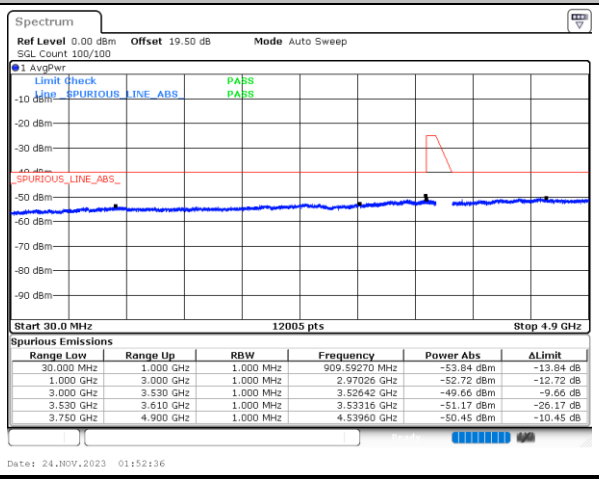


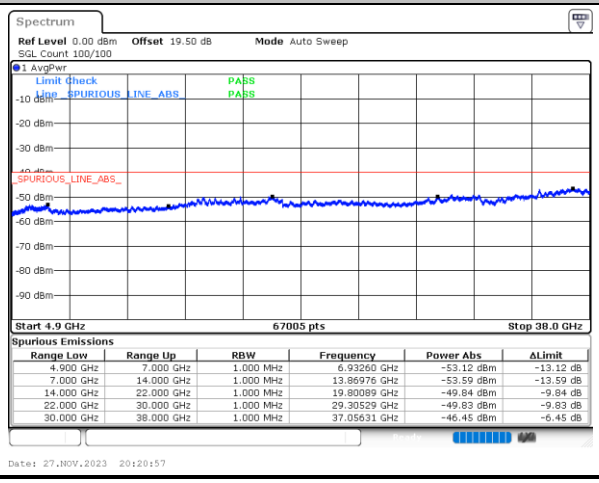
Middle Channel / 1RB49 and 1RB0





Highest Channel / 1RB49 and 1RB0

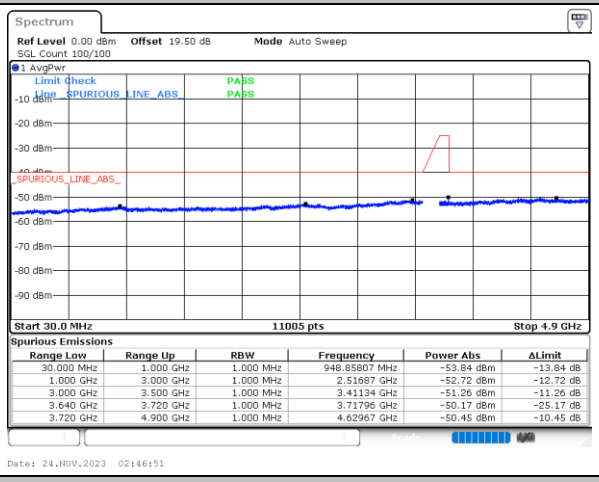


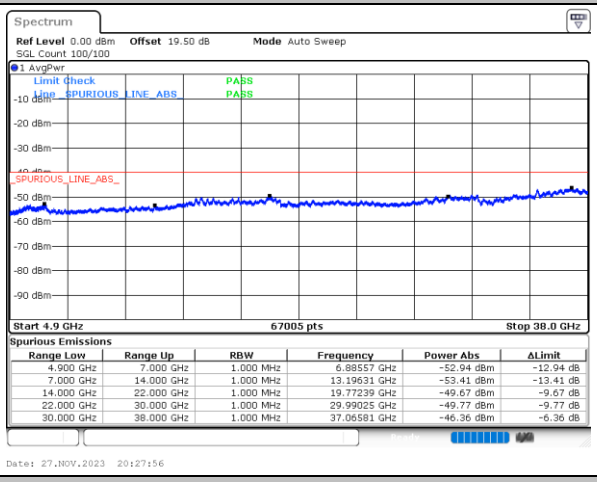


LTE Band 48C / 15MHz+20MHz

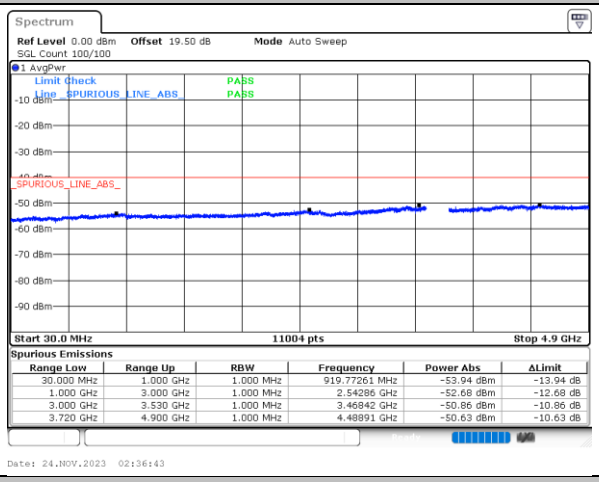
QPSK

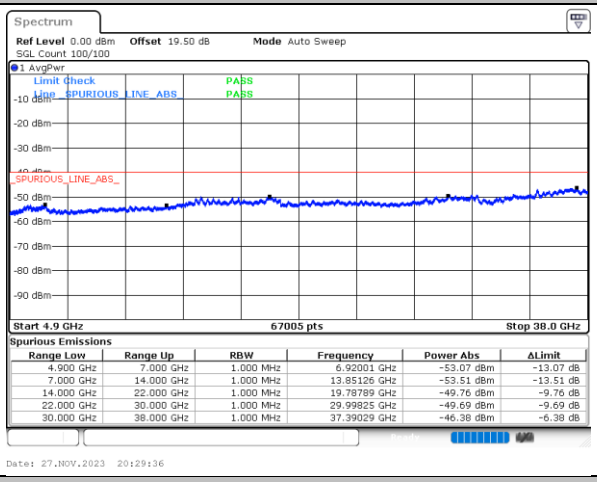
Lowest Channel / 1RB74 and 1RB0



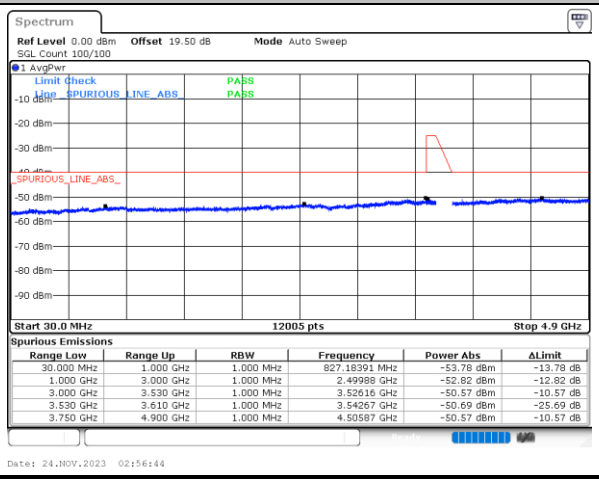


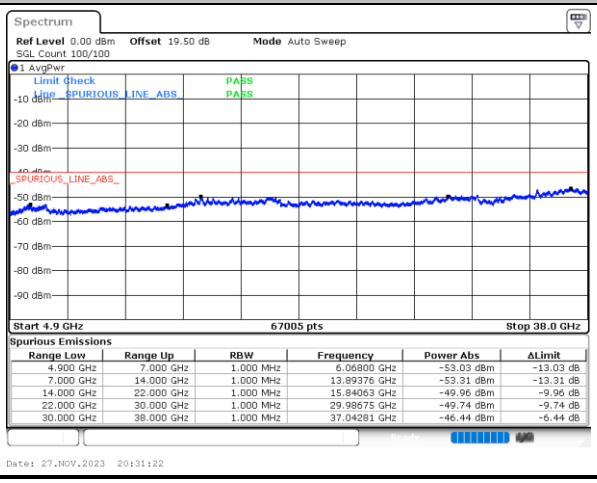
Middle Channel / 1RB74 and 1RB0





Highest Channel / 1RB74 and 1RB0

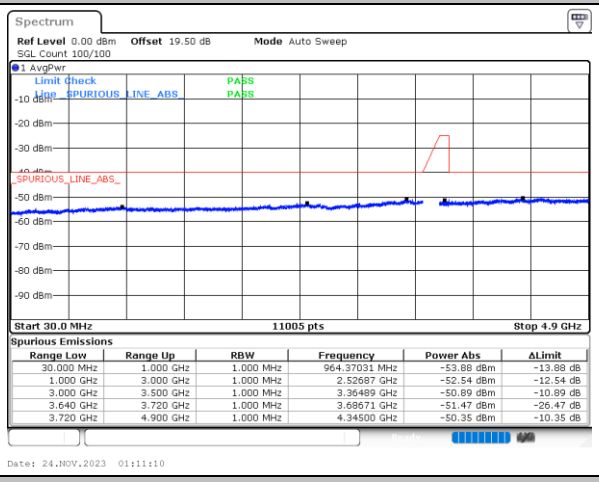


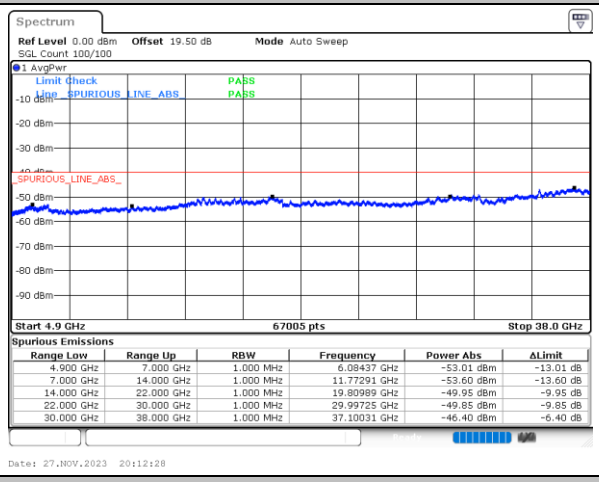


LTE Band 48C / 20MHz+5MHz

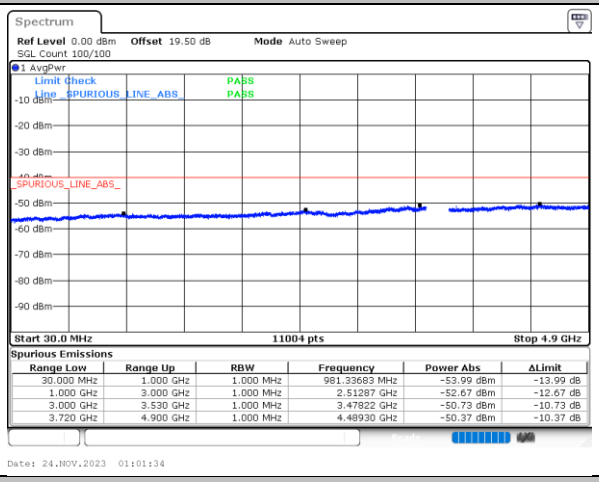
QPSK

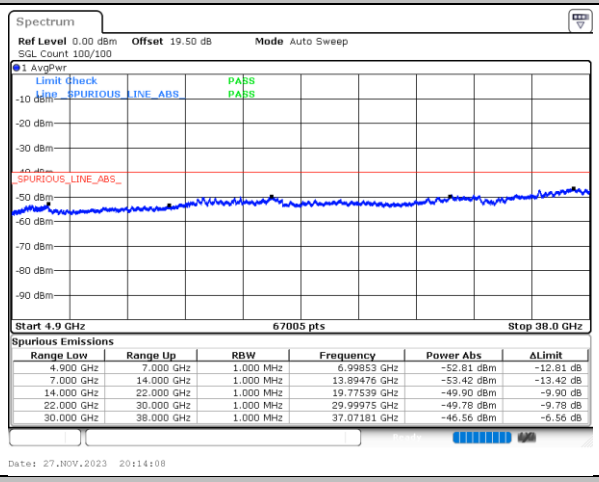
Lowest Channel / 1RB99 and 1RB0



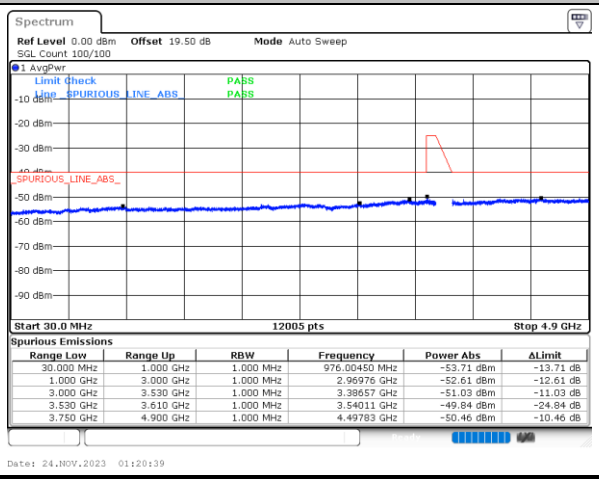


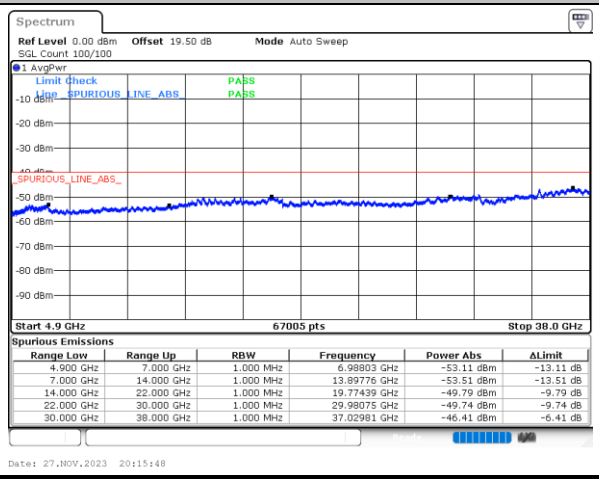
Middle Channel / 1RB99 and 1RB0





Highest Channel / 1RB99 and 1RB0

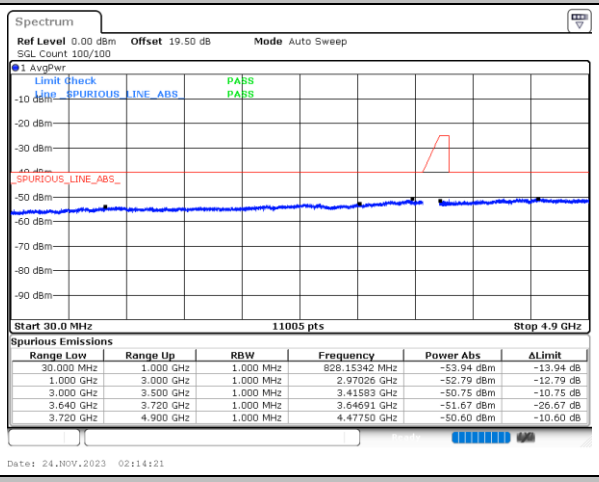


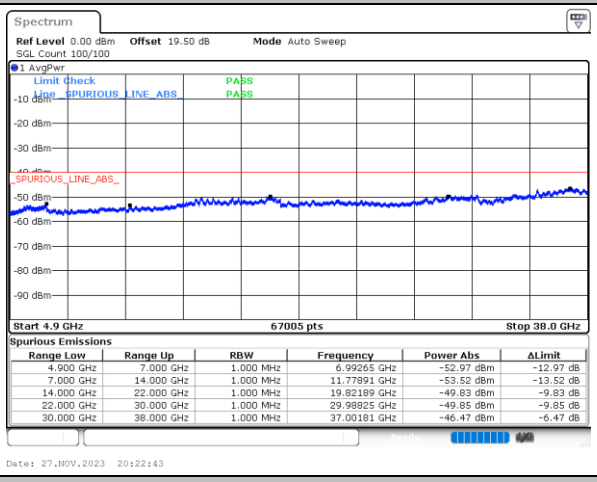


LTE Band 48C / 20MHz+10MHz

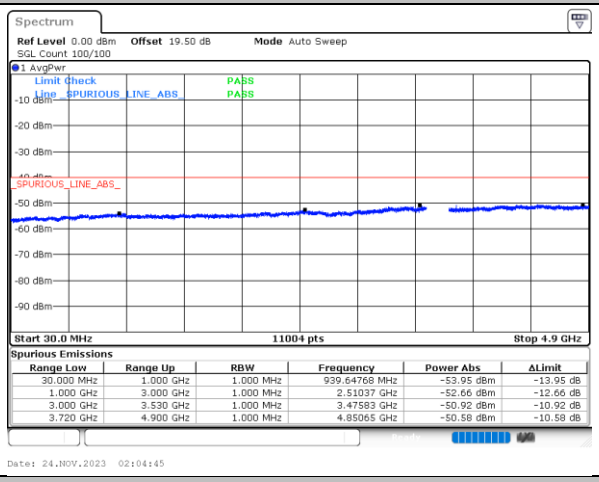
QPSK

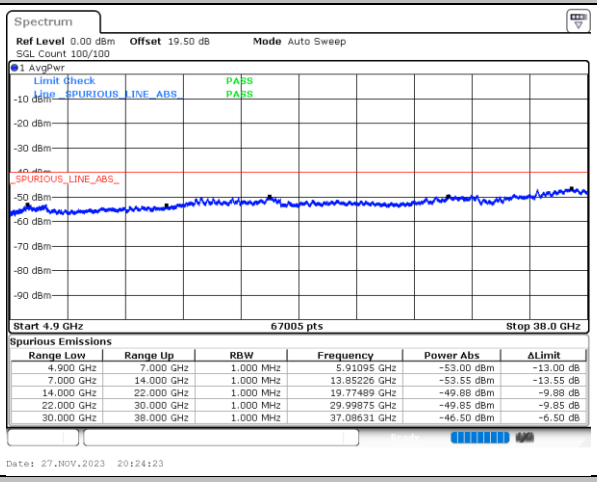
Lowest Channel / 1RB99 and 1RB0



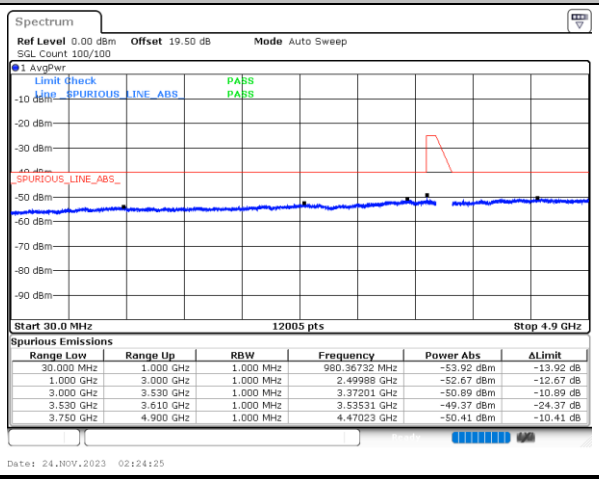


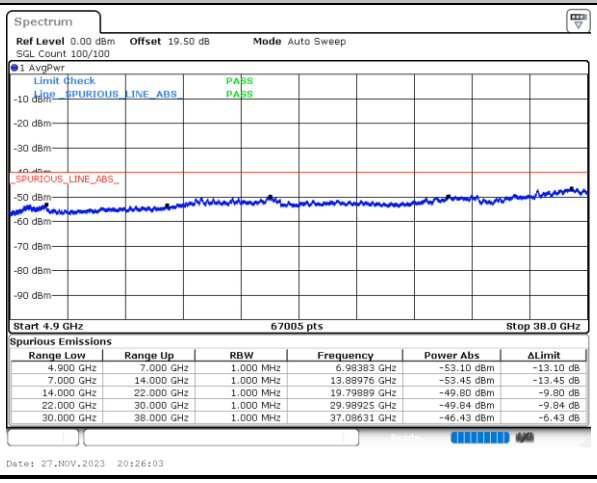
Middle Channel / 1RB99 and 1RB0





Highest Channel / 1RB99 and 1RB0

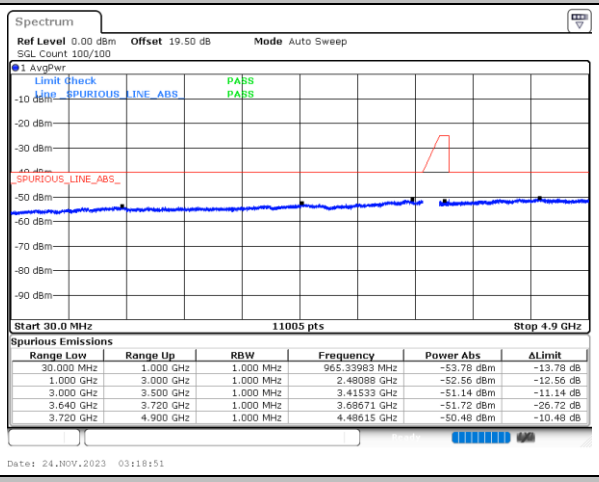


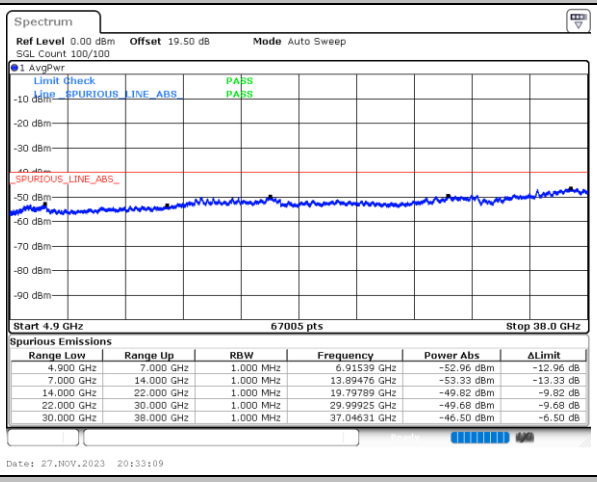


LTE Band 48C / 20MHz+15MHz

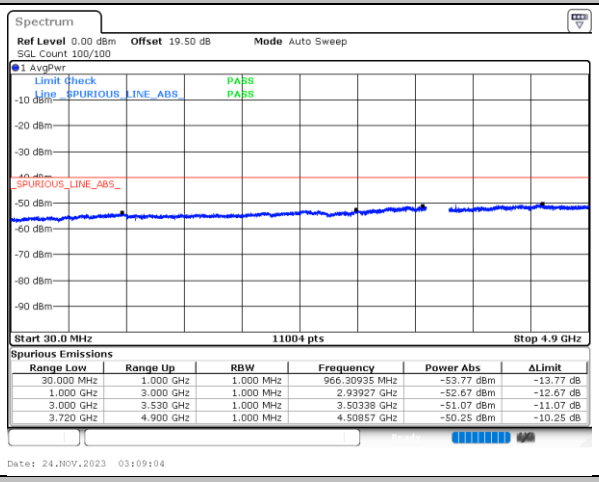
QPSK

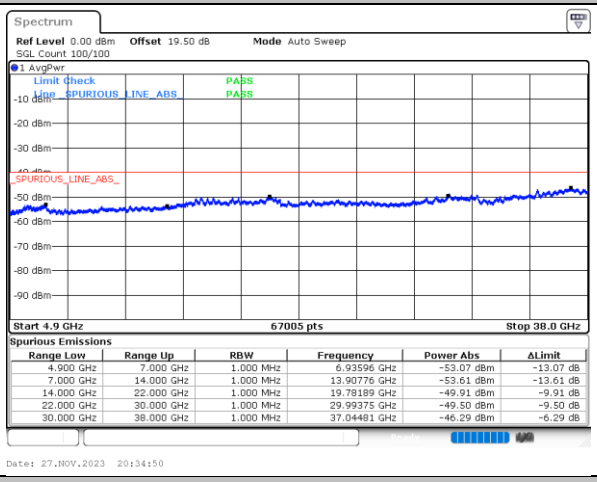
Lowest Channel / 1RB99 and 1RB0



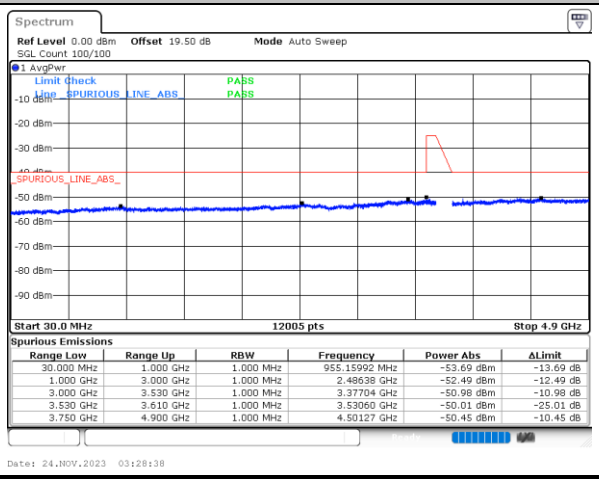


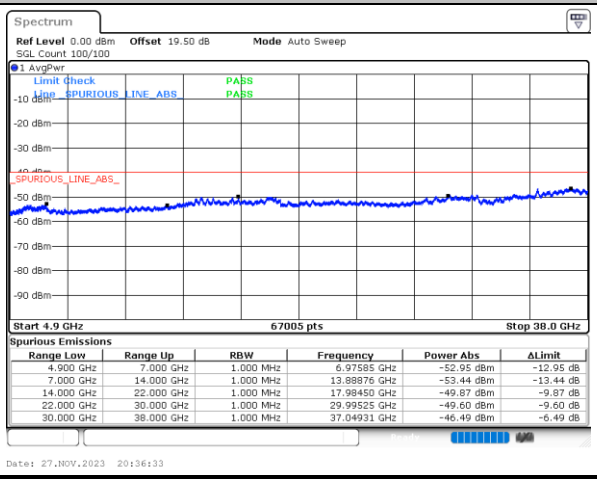
Middle Channel / 1RB99 and 1RB0





Highest Channel / 1RB99 and 1RB0

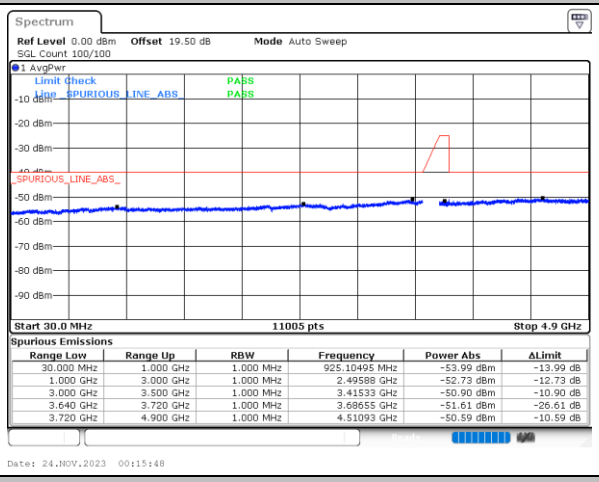


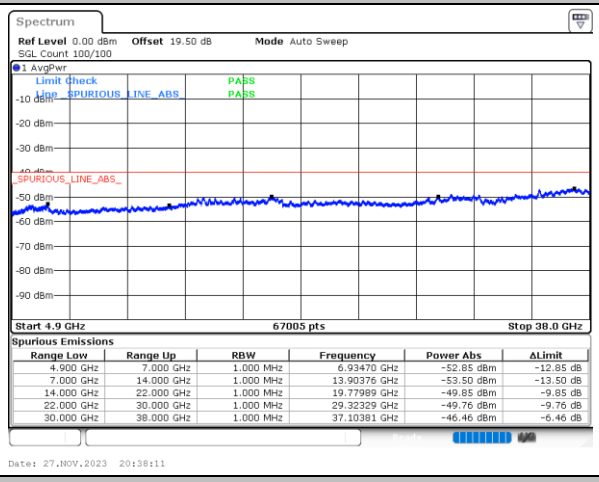


LTE Band 48C / 20MHz+20MHz

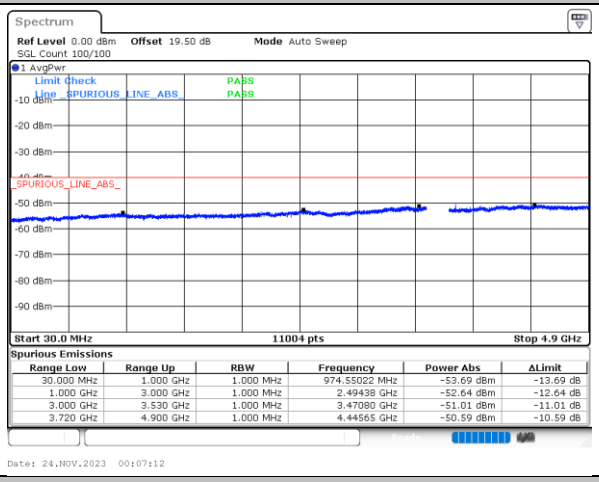
QPSK

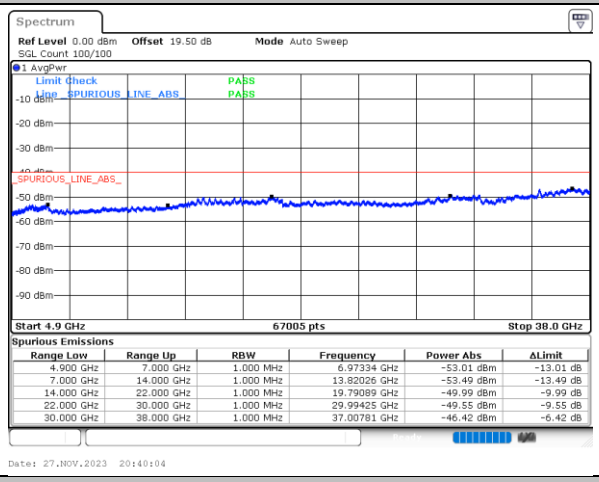
Lowest Channel / 1RB99 and 1RB0



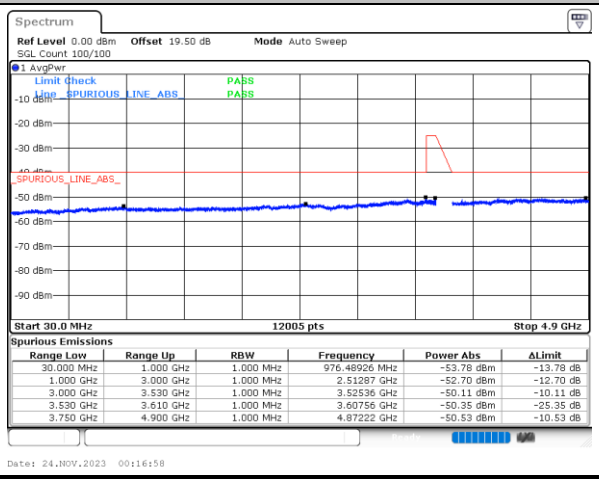


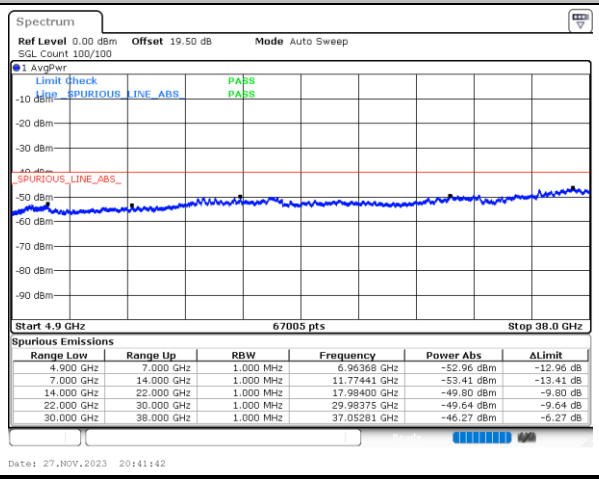
Middle Channel / 1RB99 and 1RB0





Highest Channel / 1RB99 and 1RB0





Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Shunping You	Temperature :	22~25℃
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

Sample 1:

LTE Band 48 / 20MHz / QPSK / Ant.8									
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	7232.00	-59.65	-40	-19.65	-56.36	-62.95	8.30	11.60	H
	10848.00	-52.93	-40	-12.93	-56.03	-54.45	10.48	12.00	H
	14464.00	-50.80	-40	-10.80	-58.16	-52.50	11.80	13.50	H
	7232.00	-59.77	-40	-19.77	-56.52	-63.07	8.30	11.60	V
	10848.00	-53.58	-40	-13.58	-56.44	-55.10	10.48	12.00	V
	14464.00	-50.94	-40	-10.94	-58.09	-52.64	11.80	13.50	V

LTE Band 48B / 10+10MHz / QPSK Ant8									
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	7285.90	-60.08	-40	-20.08	-57.02	-63.38	8.30	11.60	H
	10928.85	-54.25	-40	-14.25	-57.81	-55.77	10.48	12.00	H
	14571.80	-51.16	-40	-11.16	-58.41	-52.86	11.80	13.50	H
	7285.90	-59.77	-40	-19.77	-56.76	-63.07	8.30	11.60	V
	10928.85	-54.38	-40	-14.38	-57.65	-55.90	10.48	12.00	V
	14571.80	-51.64	-40	-11.64	-58.79	-53.34	11.80	13.50	V

LTE Band 48C / 20+20MHz / QPSK Ant8									
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	7232.00	-59.66	-40	-19.66	-56.37	-62.96	8.30	11.60	H
	10848.00	-54.22	-40	-14.22	-57.32	-55.74	10.48	12.00	H
	14464.00	-50.31	-40	-10.31	-57.67	-52.01	11.80	13.50	H
	7232.00	-59.62	-40	-19.62	-56.37	-62.92	8.30	11.60	V
	10848.00	-54.51	-40	-14.51	-57.37	-56.03	10.48	12.00	V
	14464.00	-50.59	-40	-10.59	-57.74	-52.29	11.80	13.50	V

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

Sample 2

LTE Band 48 / 20MHz / QPSK / Ant.8									
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	7232.00	-58.47	-40	-18.47	-55.18	-61.77	8.30	11.60	H
	10848.00	-53.49	-40	-13.49	-56.59	-55.01	10.48	12.00	H
	14464.00	-50.89	-40	-10.89	-58.25	-52.59	11.80	13.50	H
	7232.00	-59.58	-40	-19.58	-56.33	-62.88	8.30	11.60	V
	10848.00	-54.69	-40	-14.69	-57.55	-56.21	10.48	12.00	V
	14464.00	-51.11	-40	-11.11	-58.26	-52.81	11.80	13.50	V

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