

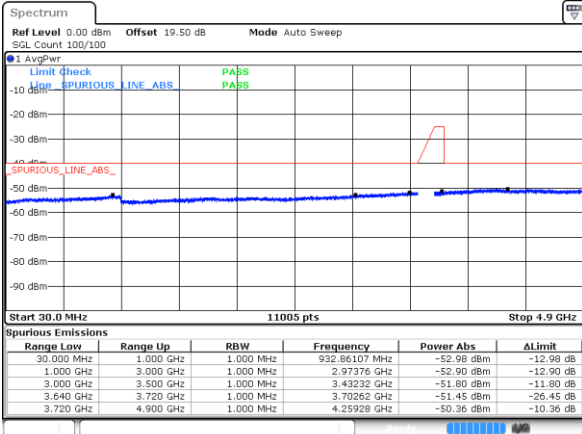


Conducted Spurious Emission

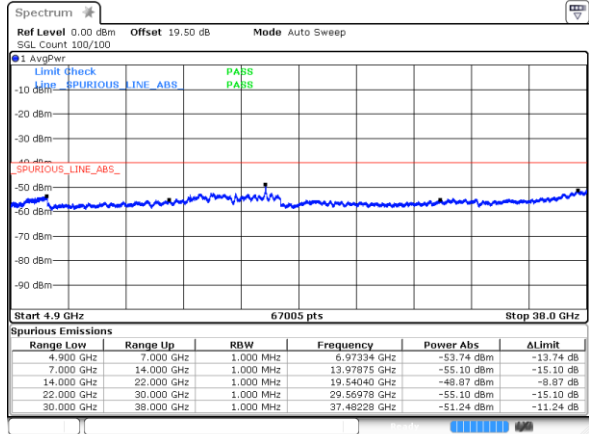
LTE Band 48C / 5MHz+20MHz

QPSK

Lowest Channel / 1RB24 and 1RB0

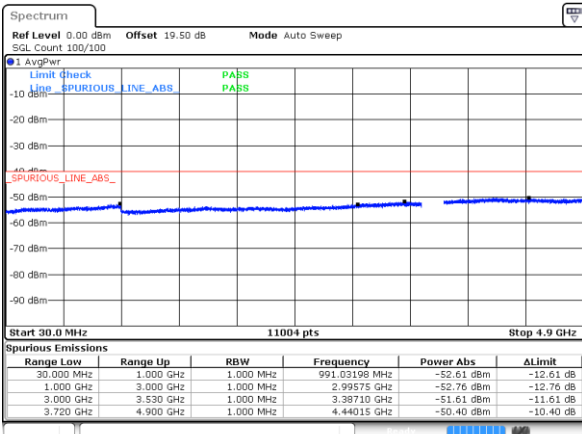


Date: 12 SEP 2023 13:59:01

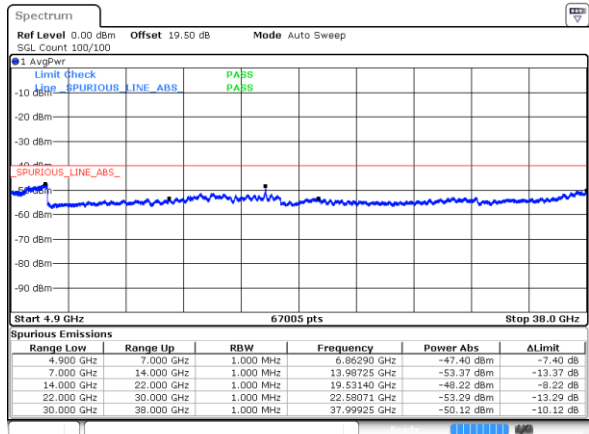


Date: 17 SEP 2023 23:23:24

Middle Channel / 1RB24 and 1RB0

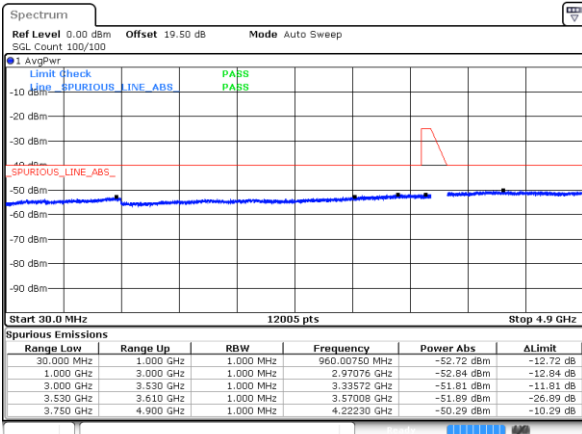


Date: 12 SEP 2023 13:48:24

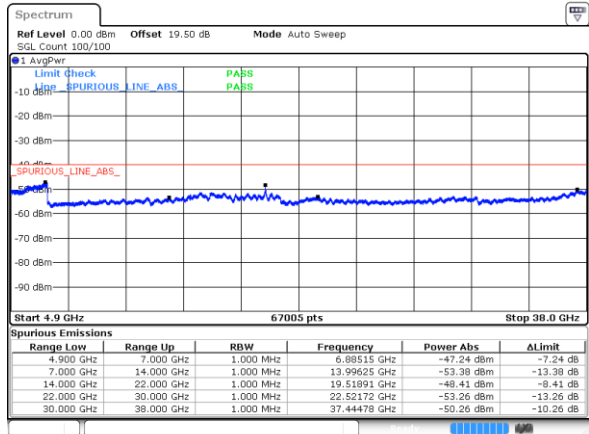


Date: 17 SEP 2023 23:28:12

Highest Channel / 1RB24 and 1RB0



Date: 12 SEP 2023 14:40:42



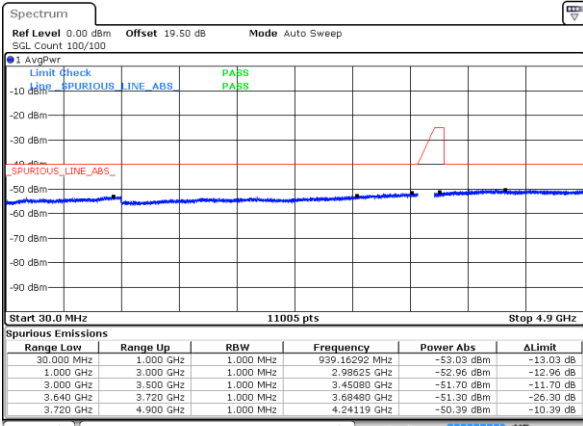
Date: 17 SEP 2023 23:30:10



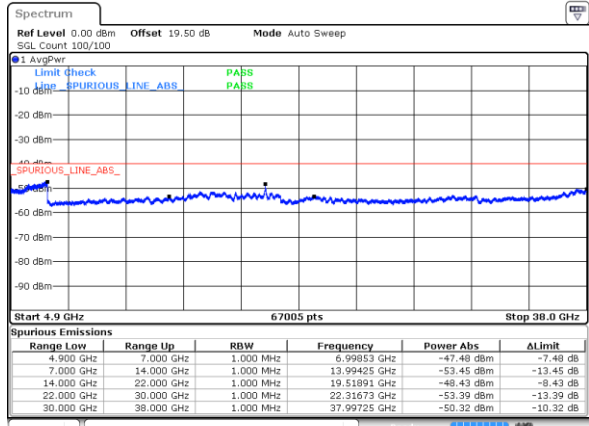
LTE Band 48C / 10MHz+20MHz

QPSK

Lowest Channel / 1RB49 and 1RB0

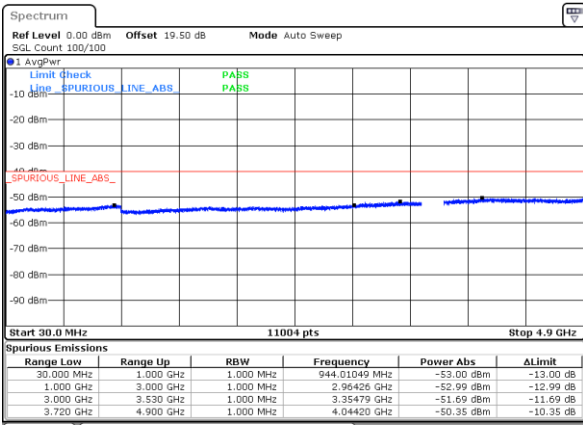


Date: 12 SEP 2023 20:36:39

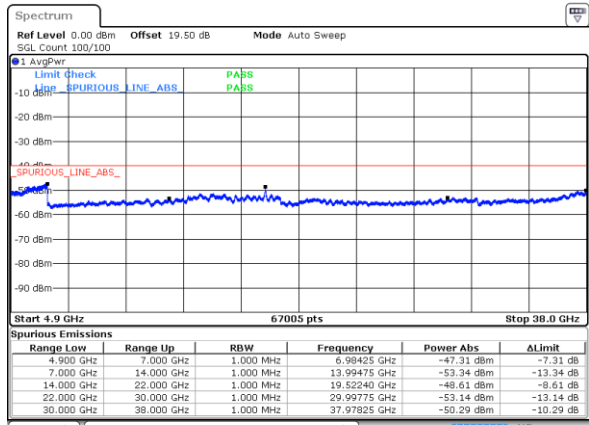


Date: 17 SEP 2023 23:32:34

Middle Channel / 1RB49 and 1RB0

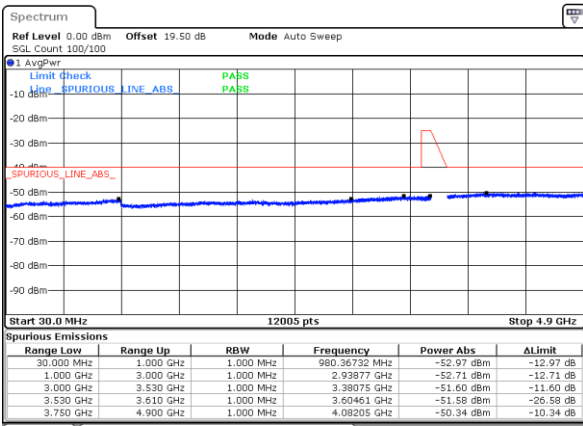


Date: 12 SEP 2023 19:36:43

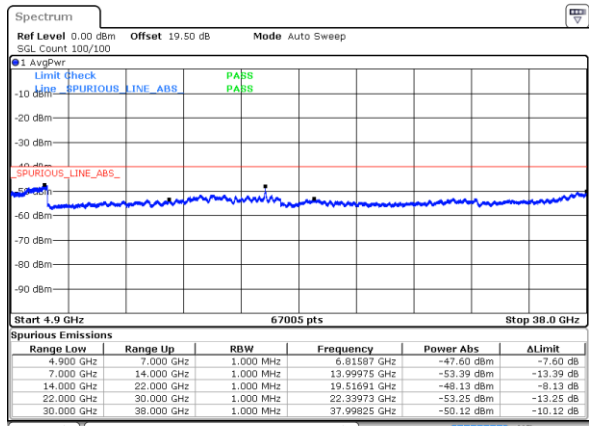


Date: 17 SEP 2023 23:34:58

Highest Channel / 1RB49 and 1RB0



Date: 12 SEP 2023 21:06:36



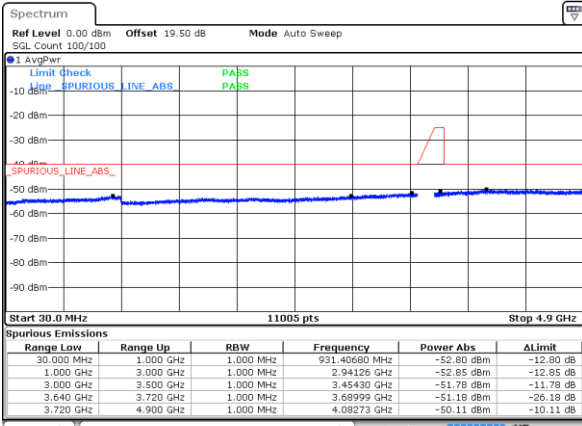
Date: 17 SEP 2023 23:36:57



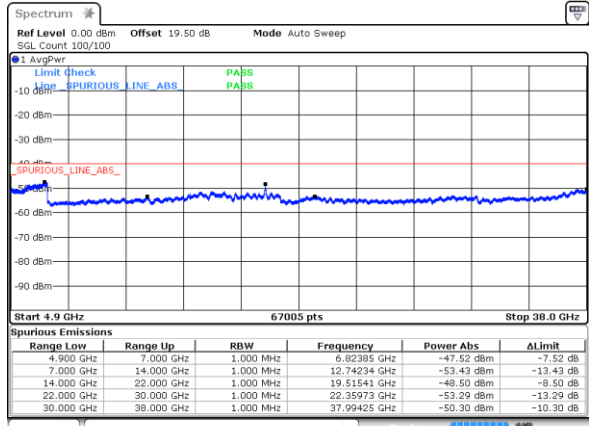
LTE Band 48C / 15MHz+20MHz

QPSK

Lowest Channel / 1RB74 and 1RB0

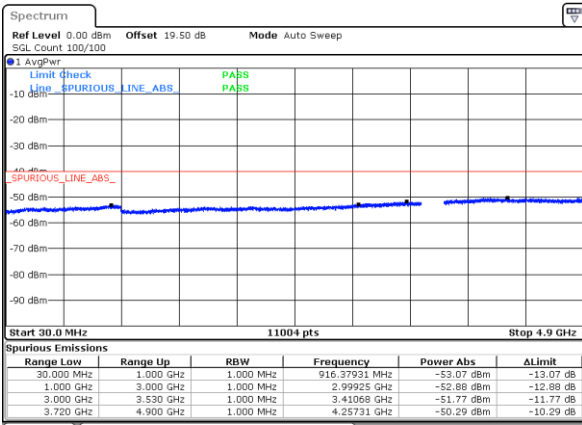


Date: 12 SEP 2023 21:41:22

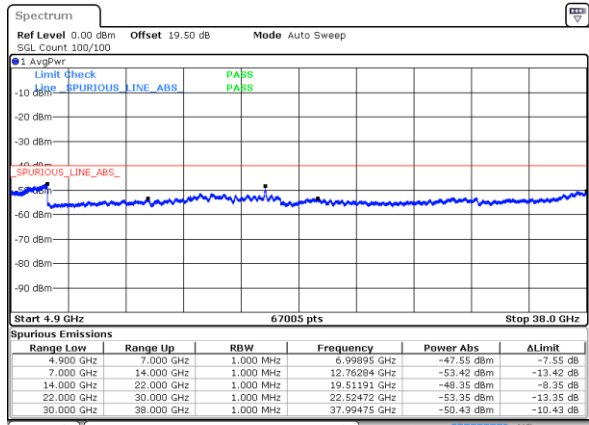


Date: 17 SEP 2023 23:39:42

Middle Channel / 1RB74 and 1RB0

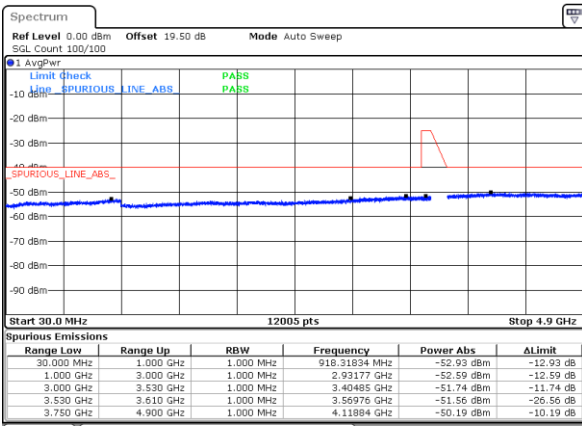


Date: 12 SEP 2023 21:25:17

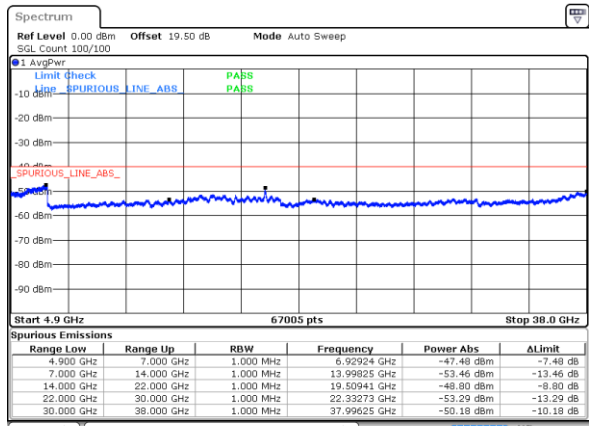


Date: 17 SEP 2023 23:39:42

Highest Channel / 1RB74 and 1RB0



Date: 12 SEP 2023 22:11:25



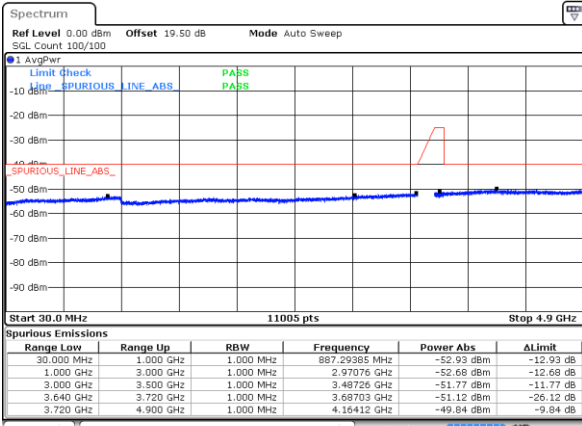
Date: 18 SEP 2023 00:04:07



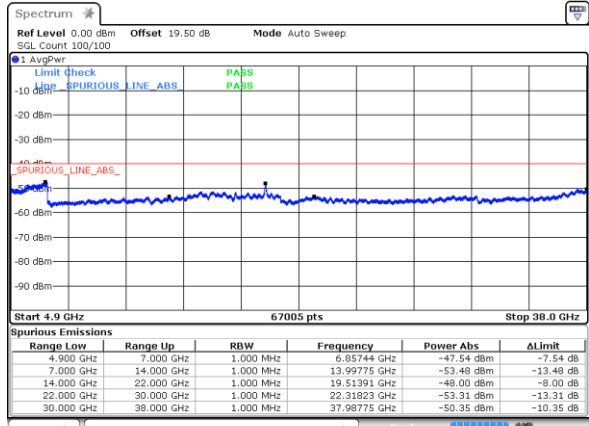
LTE Band 48C / 20MHz+5MHz

QPSK

Lowest Channel / 1RB99 and 1RB0

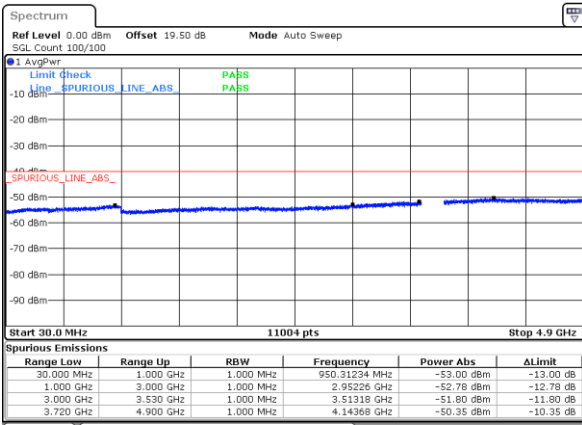


Date: 12 SEP 2023 15:09:20

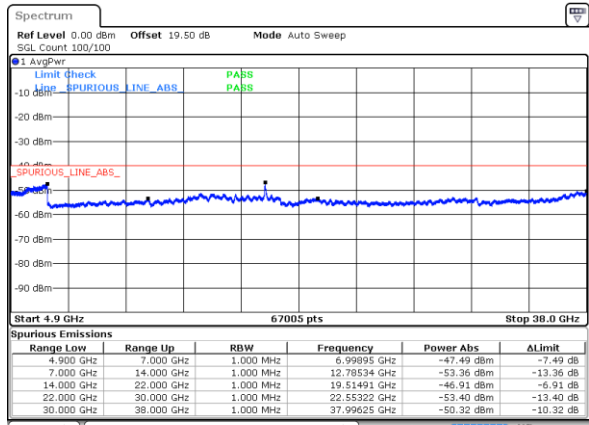


Date: 18 SEP 2023 00:07:58

Middle Channel / 1RB99 and 1RB0

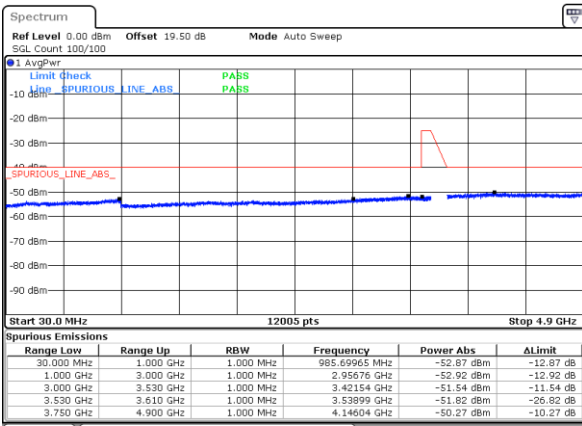


Date: 12 SEP 2023 14:59:35

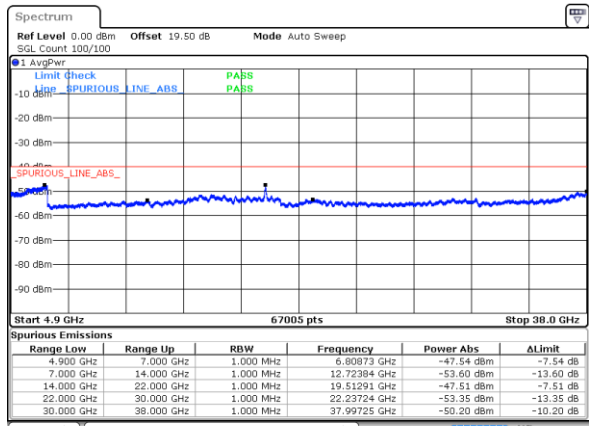


Date: 18 SEP 2023 00:13:43

Highest Channel / 1RB99 and 1RB0



Date: 12 SEP 2023 15:45:00



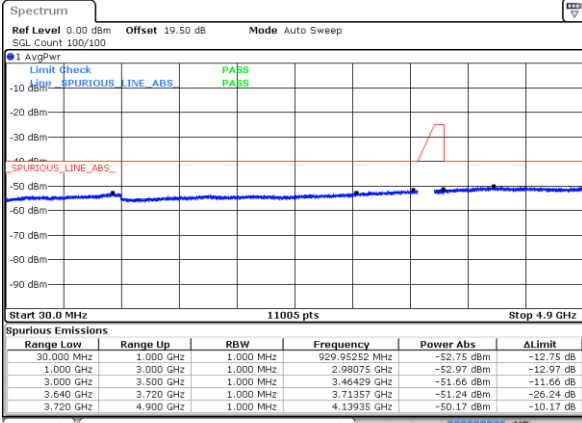
Date: 18 SEP 2023 00:16:22



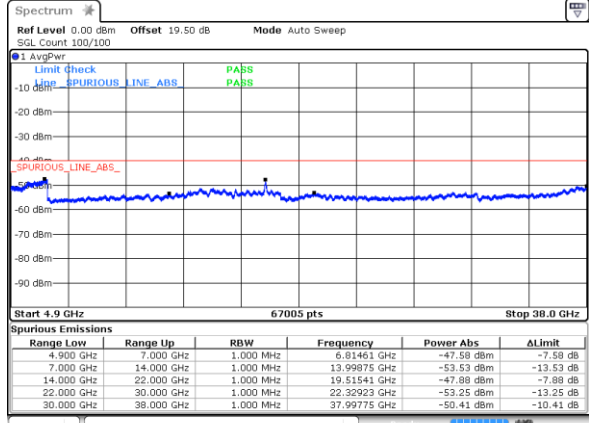
LTE Band 48C / 20MHz+10MHz

QPSK

Lowest Channel / 1RB99 and 1RB0

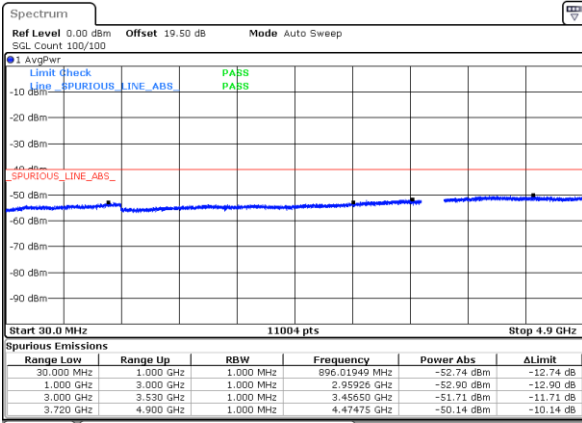


Date: 12 SEP 2023 16:18:53

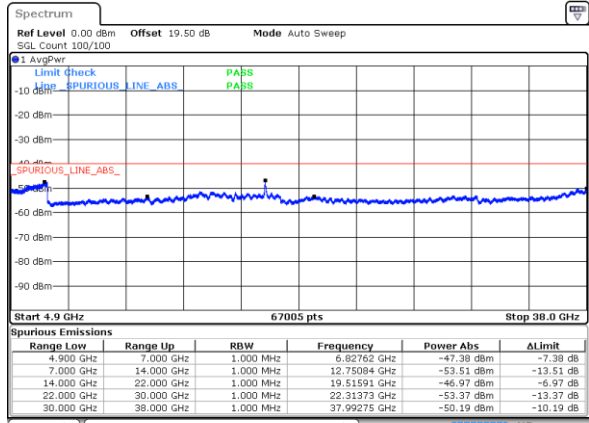


Date: 18 SEP 2023 00:19:28

Middle Channel / 1RB99 and 1RB0

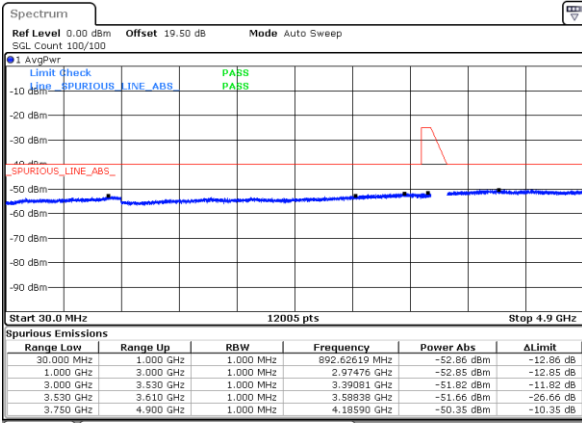


Date: 12 SEP 2023 16:09:03

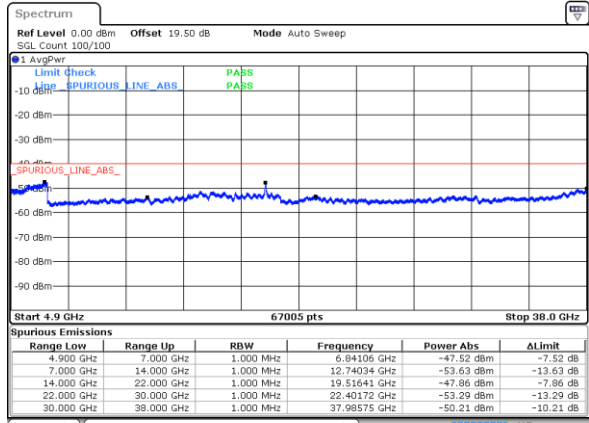


Date: 18 SEP 2023 00:22:33

Highest Channel / 1RB99 and 1RB0



Date: 12 SEP 2023 16:54:44



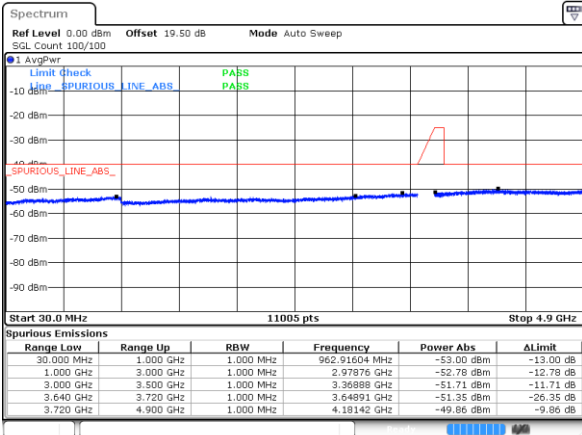
Date: 18 SEP 2023 00:26:38



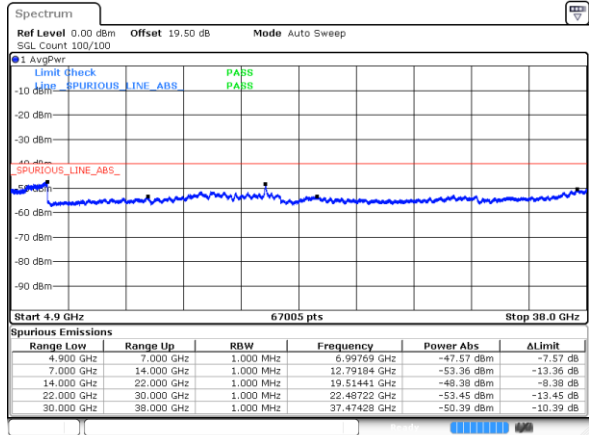
LTE Band 48C / 20MHz+15MHz

QPSK

Lowest Channel / 1RB99 and 1RB0

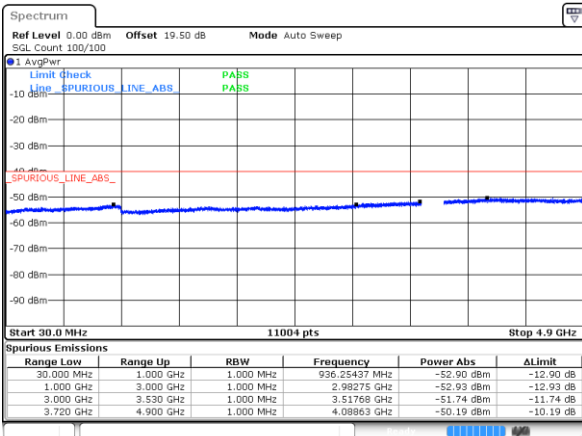


Date: 12 SEP 2023 17:29:51

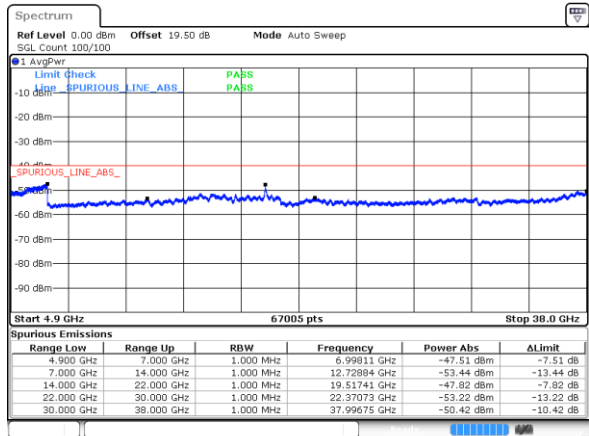


Date: 18 SEP 2023 00:30:58

Middle Channel / 1RB99 and 1RB0

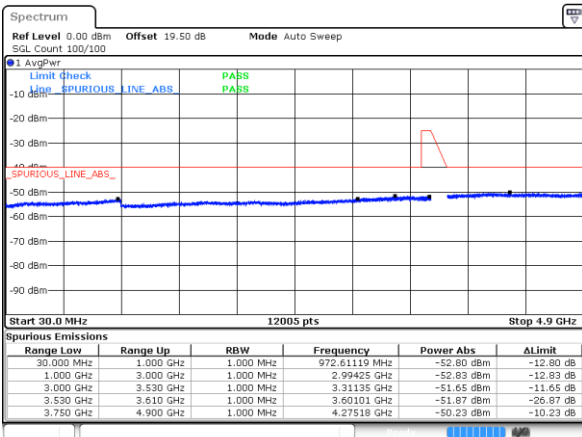


Date: 12 SEP 2023 17:20:07

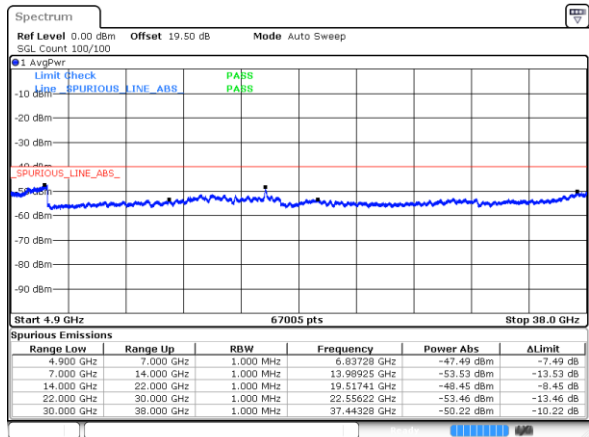


Date: 18 SEP 2023 00:34:00

Highest Channel / 1RB99 and 1RB0



Date: 12 SEP 2023 18:07:14



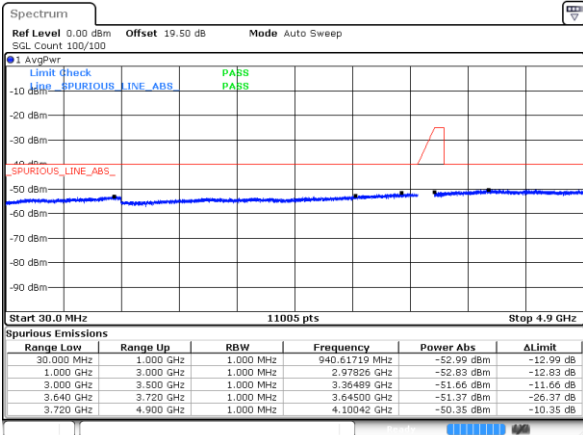
Date: 18 SEP 2023 00:36:17



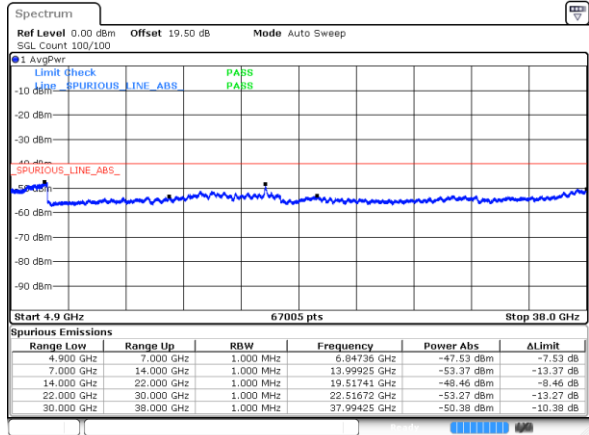
LTE Band 48C / 20MHz+20MHz

QPSK

Lowest Channel / 1RB99 and 1RB0

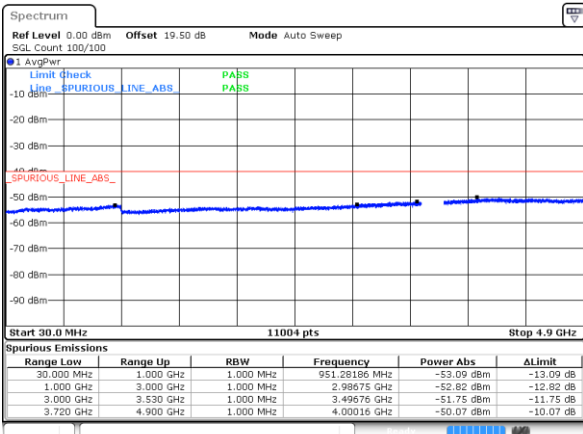


Date: 12 SEP 2023 18:49:14

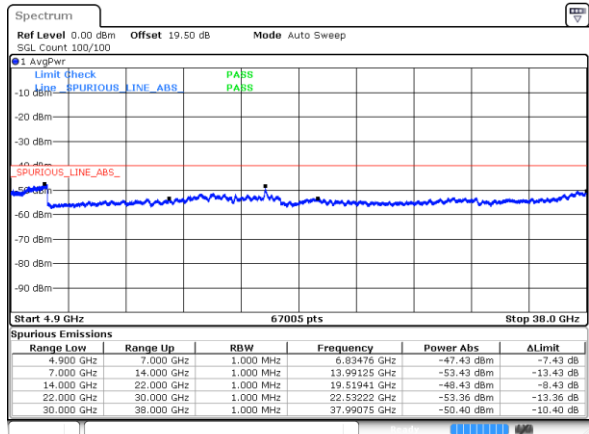


Date: 18 SEP 2023 00:38:21

Middle Channel / 1RB99 and 1RB0

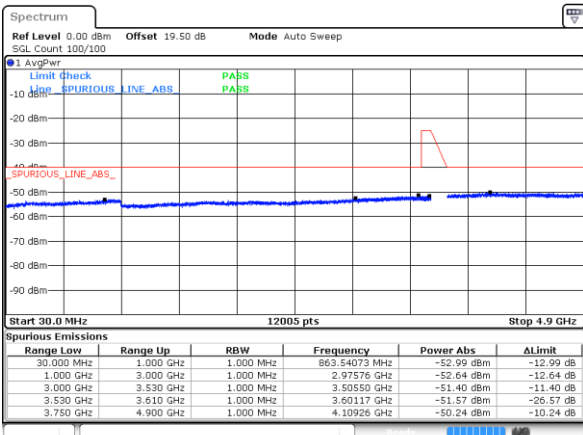


Date: 12 SEP 2023 18:40:21

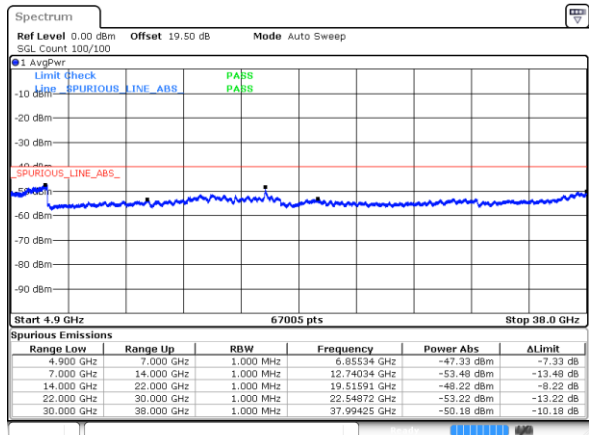


Date: 18 SEP 2023 00:41:17

Highest Channel / 1RB99 and 1RB0



Date: 12 SEP 2023 19:17:41



Date: 18 SEP 2023 00:42:58



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Zhaohui Liang	Temperature :	22~25°C
		Relative Humidity :	48~52%

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

Main PA:

LTE Band 48 / 20MHz / QPSK / Ant.6									
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	7102.00	-57.19	-40	-17.19	-63.06	-60.52	8.25	11.58	H
	10653.00	-48.69	-40	-8.69	-60.04	-50.24	10.45	12.00	H
	14204.00	-51.94	-40	-11.94	-65.83	-53.65	11.74	13.45	H
	7102.00	-54.72	-40	-14.72	-61.11	-58.05	8.25	11.58	V
	10653.00	-54.32	-40	-14.32	-65.03	-55.87	10.45	12.00	V
	14204.00	-51.91	-40	-11.91	-66.98	-53.62	11.74	13.45	V
Middle	7232.00	-51.39	-40	-11.39	-60.07	-54.69	8.30	11.60	H
	10848.00	-51.21	-40	-11.21	-64.92	-52.73	10.48	12.00	H
	14464.00	-51.61	-40	-11.61	-67.83	-53.31	11.80	13.50	H
	7232.00	-53.82	-40	-13.82	-64.23	-57.12	8.30	11.60	V
	10848.00	-52.91	-40	-12.91	-68.24	-54.43	10.48	12.00	V
	14464.00	-54.17	-40	-14.17	-69.98	-55.87	11.80	13.50	V
Highest	7362.00	-55.38	-40	-15.38	-64.29	-58.68	8.32	11.62	H
	11043.00	-51.69	-40	-11.69	-66.07	-53.37	10.52	12.20	H
	14724.00	-52.60	-40	-12.60	-69.44	-54.30	11.85	13.55	H
	7362.00	-56.48	-40	-16.48	-65.75	-59.78	8.32	11.62	V
	11043.00	-49.81	-40	-9.81	-65.54	-51.49	10.52	12.20	V
	14724.00	-53.18	-40	-13.18	-70.11	-54.88	11.85	13.55	V

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



Other PA:

EN-DC_48A_n5A / LTE 20MHz + NR 20MHz / QPSK / ANT12(LTE) & ANT1(NR)									
Channel	Frequency (MHz)	ERP/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)
NR n5 Lowest	1650	-67.27	-13	-54.27	-60.25	-70.50	3.98	9.36	H
	2475	-57.44	-13	-44.44	-56.98	-60.99	4.85	10.55	H
	3300	-61.90	-13	-48.90	-63.31	-66.83	5.50	12.58	H
	1650	-67.12	-13	-54.12	-60.74	-70.35	3.98	9.36	V
	2475	-57.82	-13	-44.82	-57.68	-61.37	4.85	10.55	V
	3300	-60.74	-13	-47.74	-63.04	-65.67	5.50	12.58	V
LTE Band48 Lowest	7232.00	-54.13	-40	-14.13	-62.81	-57.43	8.30	11.60	H
	10848.00	-54.57	-40	-14.57	-68.28	-56.09	10.48	12.00	H
	14464.00	-53.64	-40	-13.64	-69.86	-55.34	11.80	13.50	H
	7232.00	-51.12	-40	-11.12	-61.53	-54.42	8.30	11.60	V
	10848.00	-52.71	-40	-12.71	-68.04	-54.23	10.48	12.00	V
	14464.00	-53.45	-40	-13.45	-69.26	-55.15	11.80	13.50	V
NR n5 Middle	1654.5	-67.34	-13	-54.34	-60.32	-70.59	4.00	9.40	H
	2481.75	-61.43	-13	-48.43	-60.97	-65.00	4.88	10.60	H
	3309	-61.88	-13	-48.88	-63.39	-66.81	5.52	12.60	H
	1654.5	-66.99	-13	-53.99	-60.61	-70.24	4.00	9.40	V
	2481.75	-60.36	-13	-47.36	-60.22	-63.93	4.88	10.60	V
	3309	-60.56	-13	-47.56	-62.77	-65.49	5.52	12.60	V
LTE Band48 Middle	7232.00	-54.49	-40	-14.49	-63.17	-57.79	8.30	11.60	H
	10848.00	-54.59	-40	-14.59	-68.30	-56.11	10.48	12.00	H
	14464.00	-53.67	-40	-13.67	-69.89	-55.37	11.80	13.50	H
	7232.00	-50.74	-40	-10.74	-61.15	-54.04	8.30	11.60	V
	10848.00	-52.85	-40	-12.85	-68.18	-54.37	10.48	12.00	V
	14464.00	-54.06	-40	-14.06	-69.87	-55.76	11.80	13.50	V
NR n5 Highest	1660	-67.55	-13	-54.55	-60.60	-70.72	4.10	9.42	H
	2490	-60.79	-13	-47.79	-60.46	-64.37	4.90	10.63	H
	3320	-62.25	-13	-49.25	-63.76	-67.17	5.55	12.62	H
	1660	-66.90	-13	-53.90	-60.62	-70.07	4.10	9.42	V
	2490	-59.42	-13	-46.42	-59.35	-63.00	4.90	10.63	V
	3320	-60.57	-13	-47.57	-62.78	-65.49	5.55	12.62	V
LTE Band48 Highest	7232.00	-55.43	-40	-15.43	-64.11	-58.73	8.30	11.60	H
	10848.00	-54.25	-40	-14.25	-67.96	-55.77	10.48	12.00	H
	14464.00	-53.67	-40	-13.67	-69.89	-55.37	11.80	13.50	H
	7232.00	-50.19	-40	-10.19	-60.6	-53.49	8.30	11.60	V
	10848.00	-53.27	-40	-13.27	-68.6	-54.79	10.48	12.00	V
	14464.00	-54.40	-40	-14.40	-70.21	-56.10	11.80	13.50	V

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



LTE Band CA_48C / 20MHz + 20MHz / QPSK / Ant.6									
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	7250.00	-57.92	-40	-17.92	-66.63	-61.22	8.30	11.60	H
	10875.00	-54.30	-40	-14.30	-68.16	-55.82	10.48	12.00	H
	14500.00	-53.43	-40	-13.43	-69.70	-55.13	11.80	13.50	H
	7250.00	-56.41	-40	-16.41	-66.66	-59.71	8.30	11.60	V
	10875.00	-53.06	-40	-13.06	-68.57	-54.58	10.48	12.00	V
	14500.00	-53.76	-40	-13.76	-69.64	-55.46	11.80	13.50	V

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