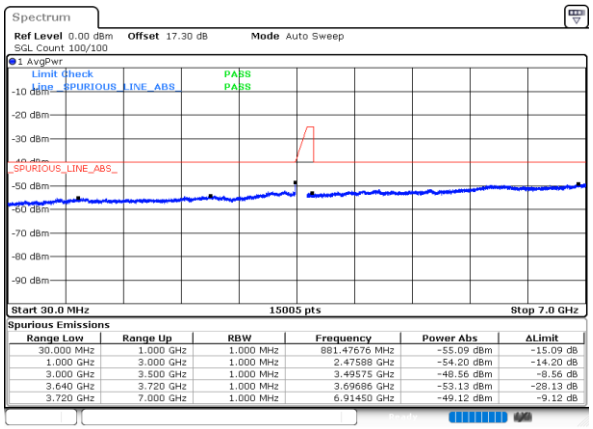
LTE Band 48C / 10MHz+20MHz

QPSK

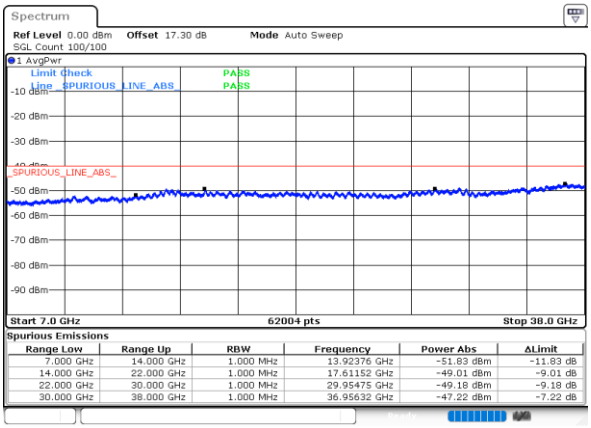
Lowest Channel / 1RB0 and 1RB99



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	881.47676 MHz	-55.09 dBm	-15.09 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.47588 GHz	-54.20 dBm	-14.20 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.49575 GHz	-48.56 dBm	-8.56 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.69686 GHz	-53.13 dBm	-28.13 dB
3.720 GHz	7.000 GHz	1.000 MHz	6.91450 GHz	-49.12 dBm	-9.12 dB

Date: 26.APR.2023 01:11:29

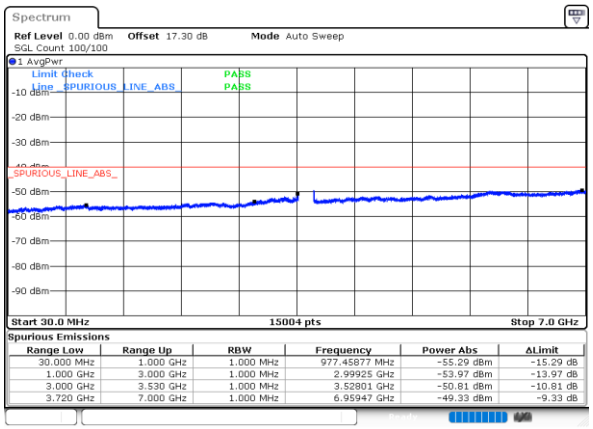


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	13.92376 GHz	-51.83 dBm	-11.83 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.61152 GHz	-49.01 dBm	-9.01 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.95475 GHz	-49.18 dBm	-9.18 dB
30.000 GHz	38.000 GHz	1.000 MHz	36.95632 GHz	-47.22 dBm	-7.22 dB

Date: 27.APR.2023 17:49:17

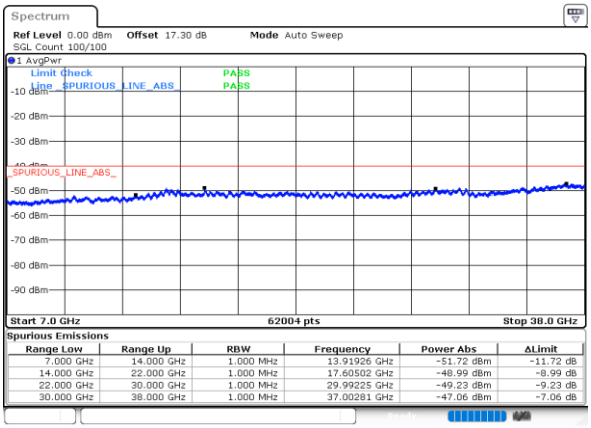
Middle Channel / 1RB0 and 1RB99



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	977.45877 MHz	-55.29 dBm	-15.29 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99925 GHz	-53.97 dBm	-13.97 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.52801 GHz	-50.81 dBm	-10.81 dB
3.720 GHz	7.000 GHz	1.000 MHz	6.95947 GHz	-49.33 dBm	-9.33 dB

Date: 26.APR.2023 01:31:33

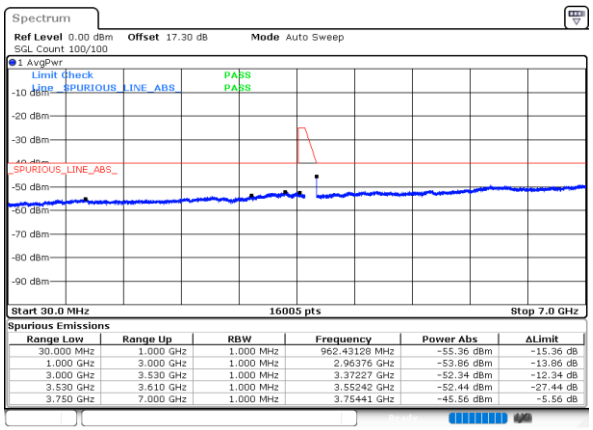


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	13.91926 GHz	-51.72 dBm	-11.72 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.60502 GHz	-48.99 dBm	-8.99 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.99225 GHz	-49.23 dBm	-9.23 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.00281 GHz	-47.06 dBm	-7.06 dB

Date: 27.APR.2023 17:53:47

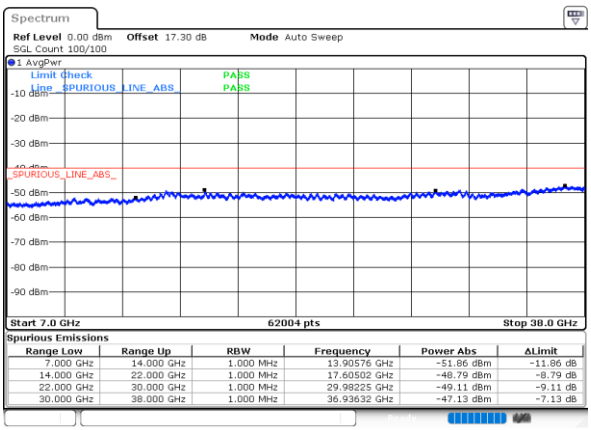
Highest Channel / 1RB0 and 1RB99



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	962.43128 MHz	-55.36 dBm	-15.36 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96376 GHz	-53.86 dBm	-13.86 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.37227 GHz	-52.34 dBm	-12.34 dB
3.530 GHz	3.610 GHz	1.000 MHz	3.55242 GHz	-52.44 dBm	-27.44 dB
3.750 GHz	7.000 GHz	1.000 MHz	3.75441 GHz	-45.56 dBm	-5.56 dB

Date: 26.APR.2023 01:54:24



Spurious Emissions

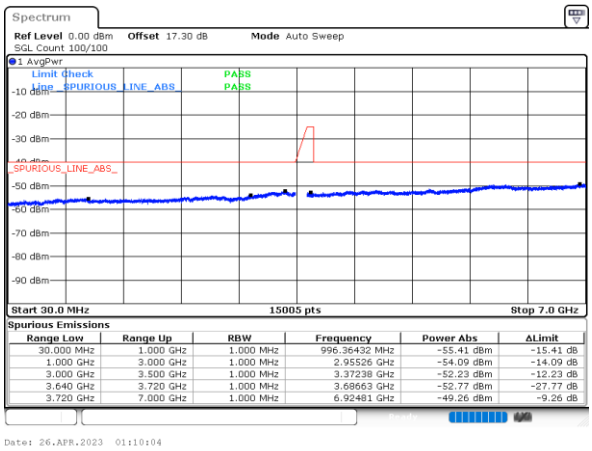
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	13.90576 GHz	-51.86 dBm	-11.86 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.60502 GHz	-48.79 dBm	-8.79 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.98225 GHz	-49.11 dBm	-9.11 dB
30.000 GHz	38.000 GHz	1.000 MHz	36.93632 GHz	-47.13 dBm	-7.13 dB

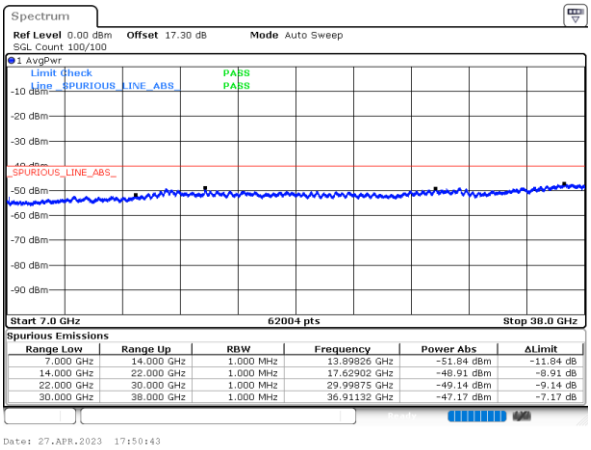
Date: 27.APR.2023 17:55:22

LTE Band 48C / 10MHz+20MHz

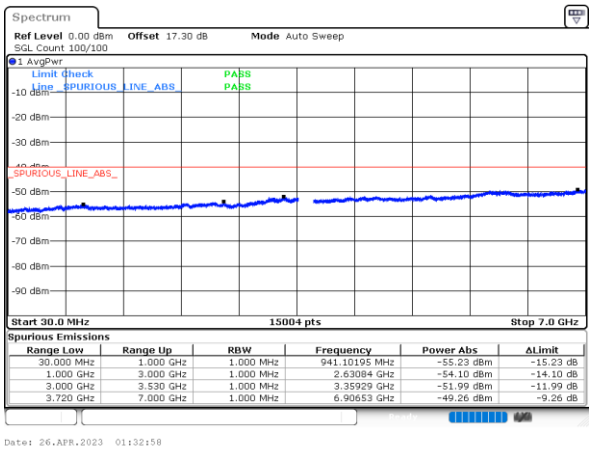
QPSK

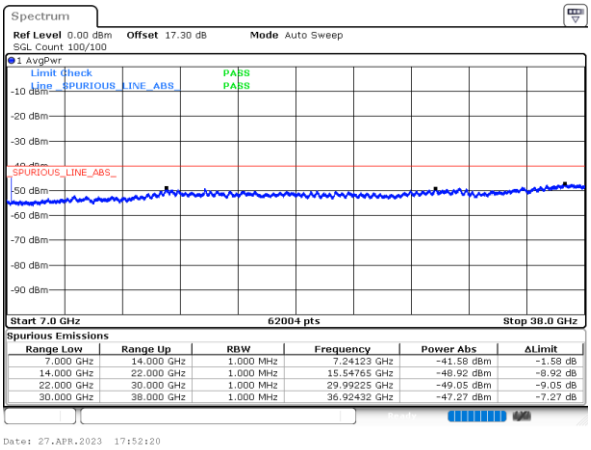
Lowest Channel / 1RB49 and 1RB0



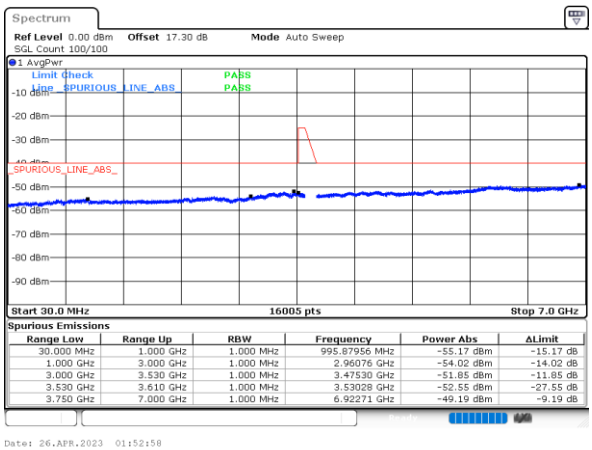


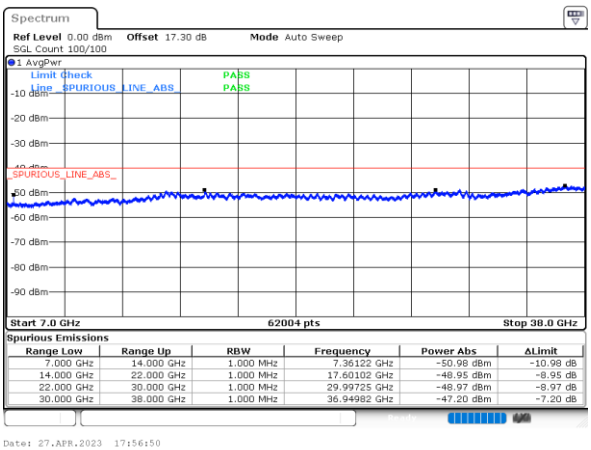
Middle Channel / 1RB49 and 1RB0





Highest Channel / 1RB49 and 1RB0

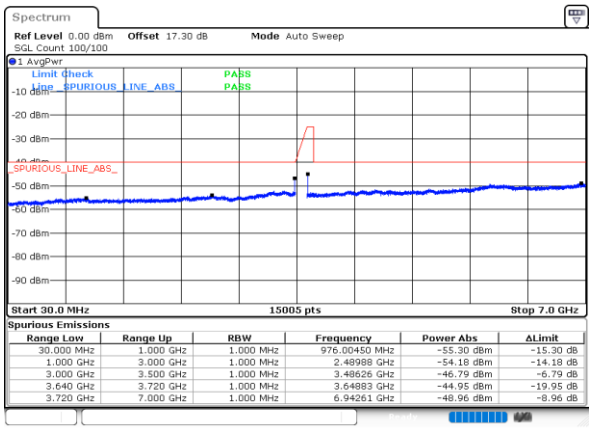


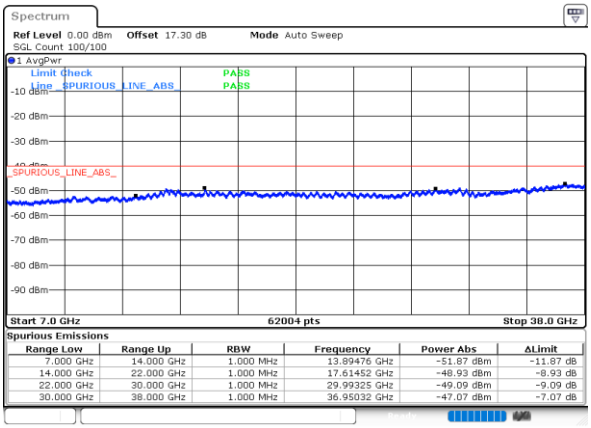


LTE Band 48C / 15MHz+20MHz

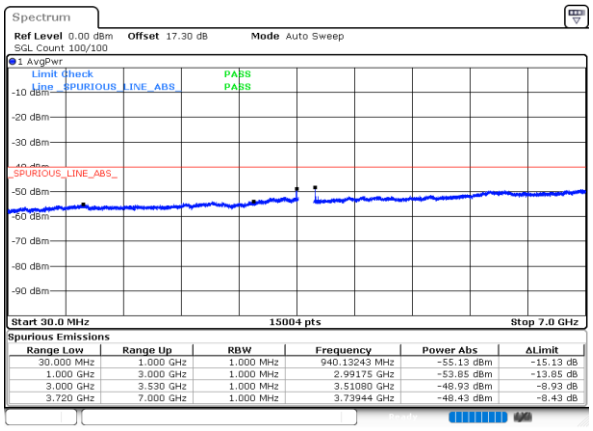
QPSK

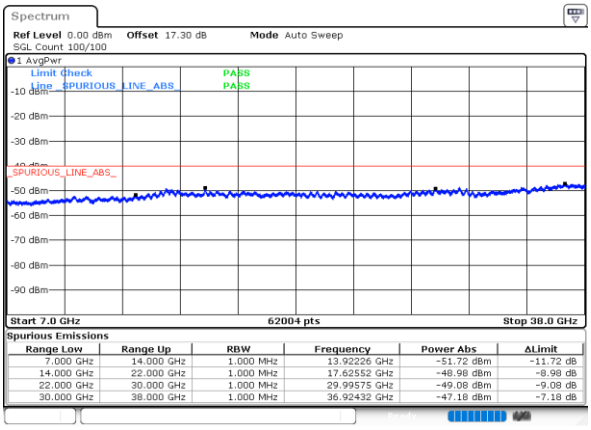
Lowest Channel / 1RB0 and 1RB99



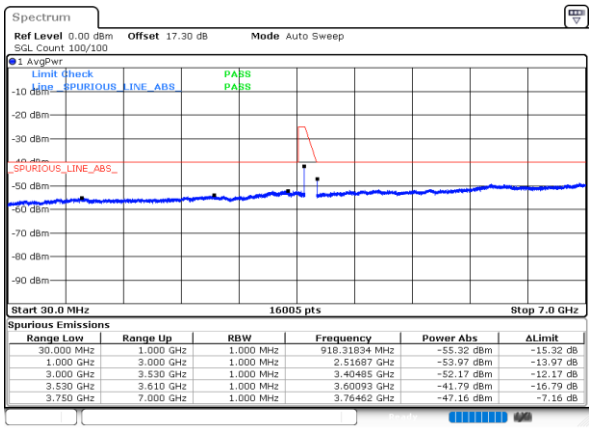


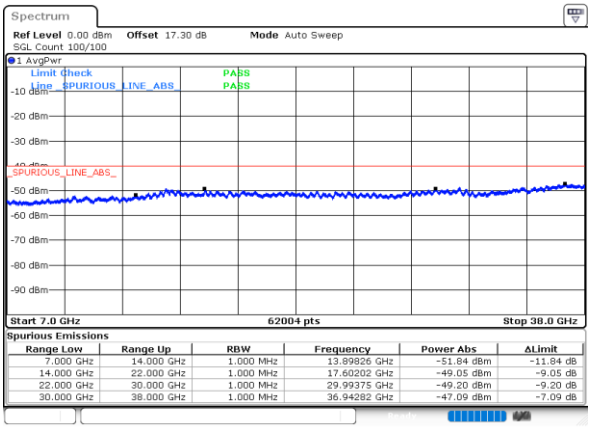
Middle Channel / 1RB0 and 1RB99





Highest Channel / 1RB0 and 1RB99

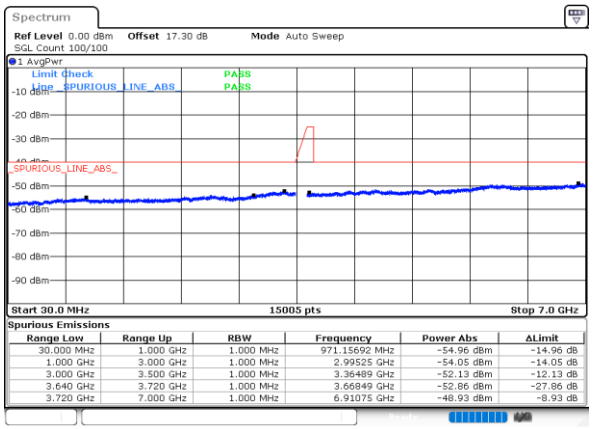


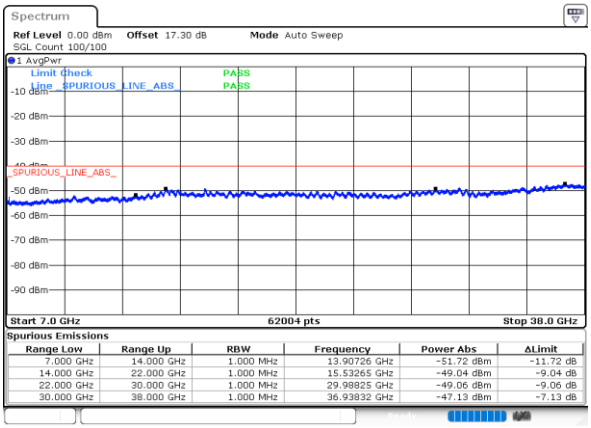


LTE Band 48C / 15MHz+20MHz

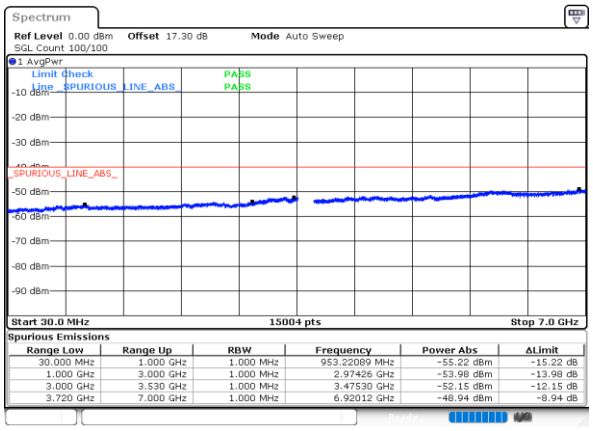
QPSK

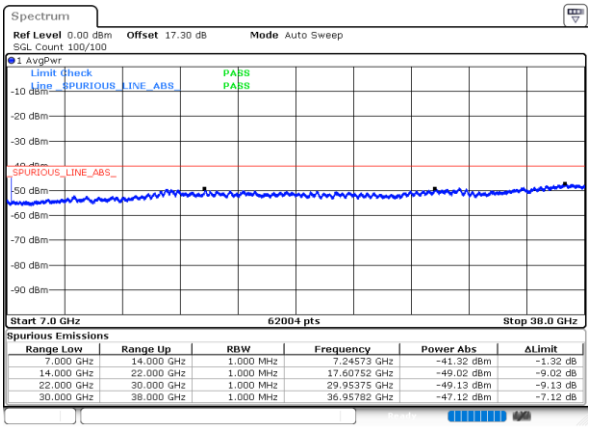
Lowest Channel / 1RB74 and 1RB0



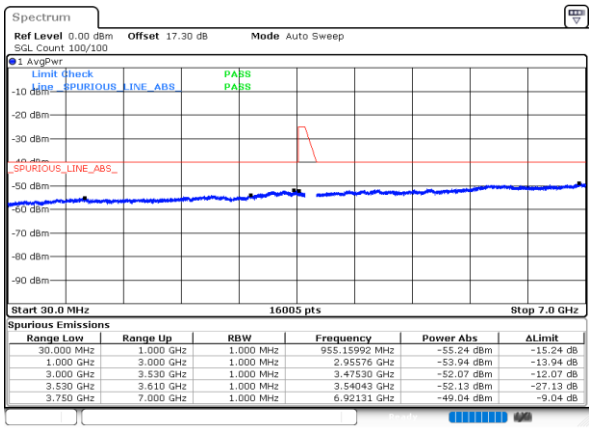


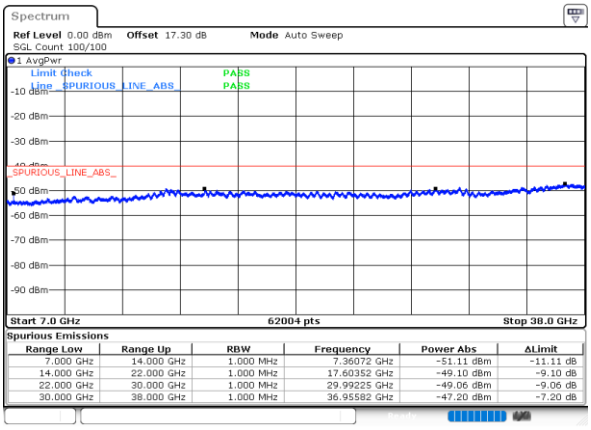
Middle Channel / 1RB74 and 1RB0





Highest Channel / 1RB74 and 1RB0

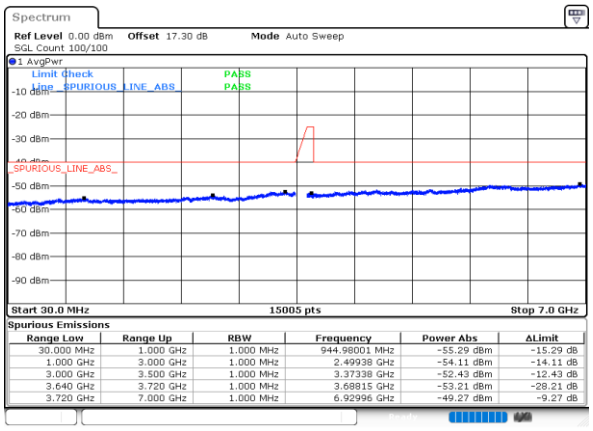


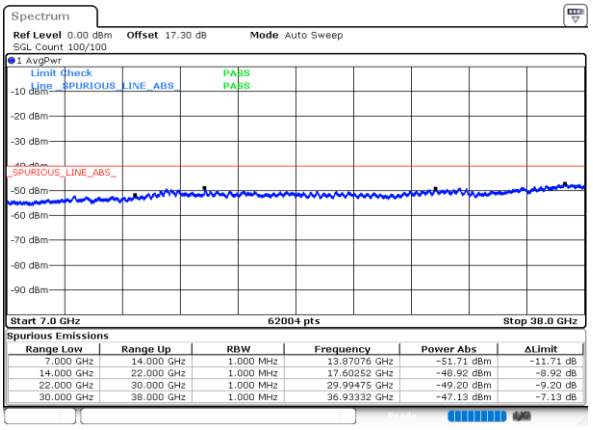


LTE Band 48C / 20MHz+5MHz

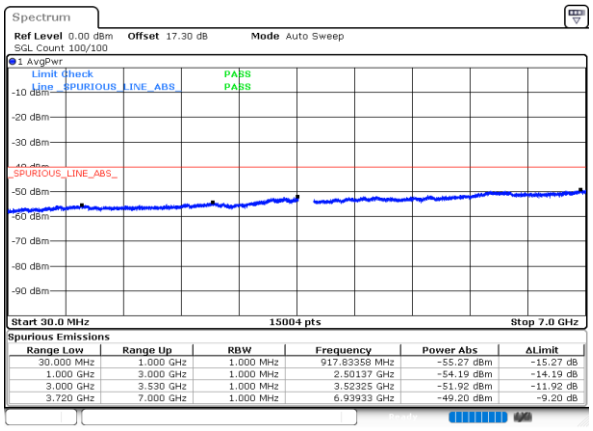
QPSK

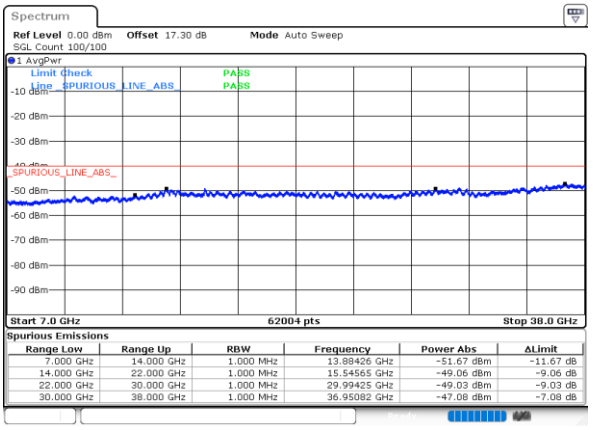
Lowest Channel / 1RB0 and 1RB24



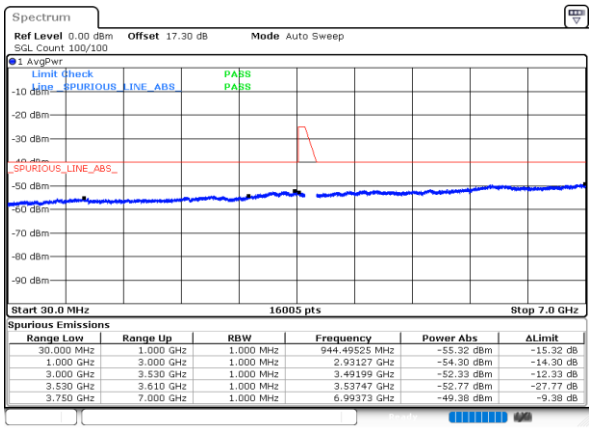


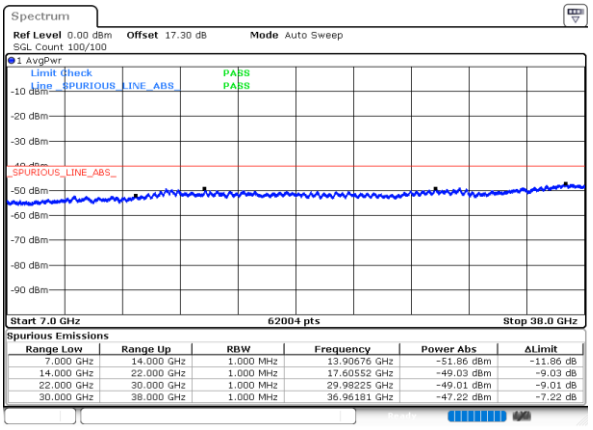
Middle Channel / 1RB0 and 1RB24





Highest Channel / 1RB0 and 1RB24

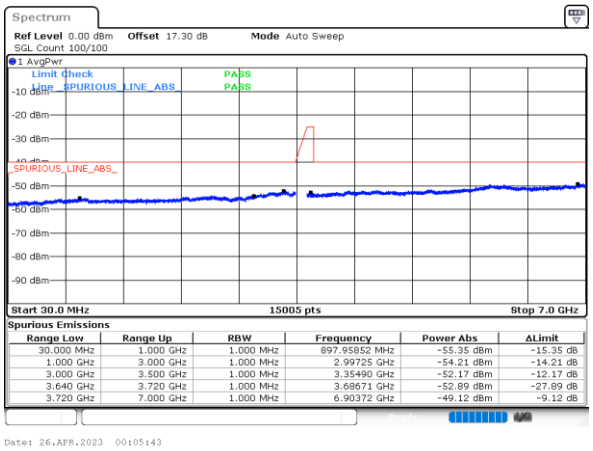


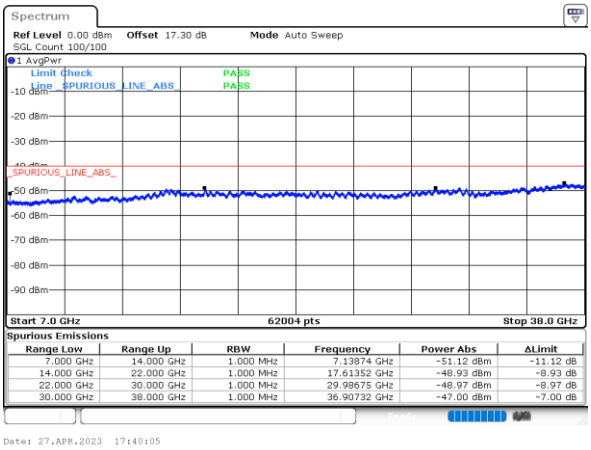


LTE Band 48C / 20MHz+5MHz

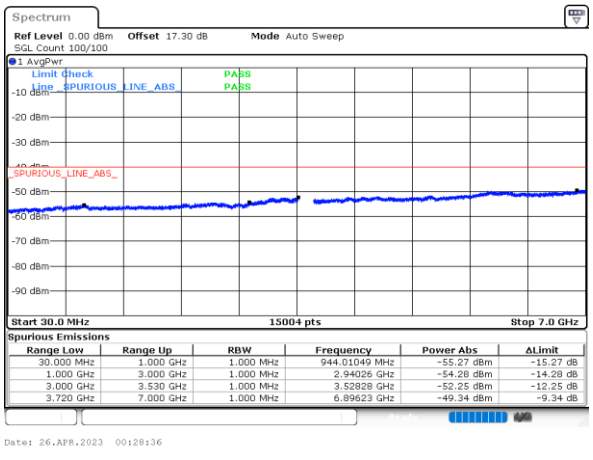
QPSK

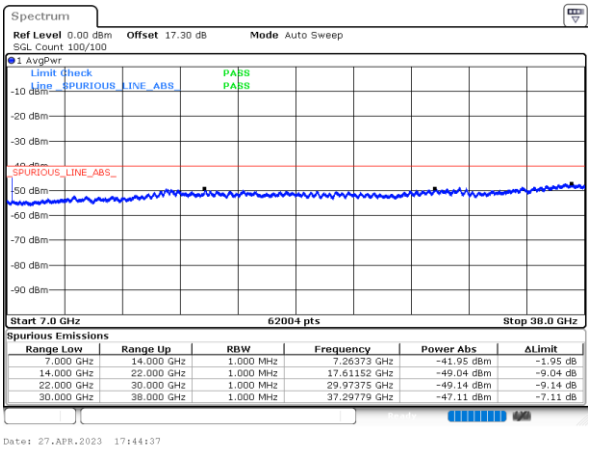
Lowest Channel / 1RB99 and 1RB0



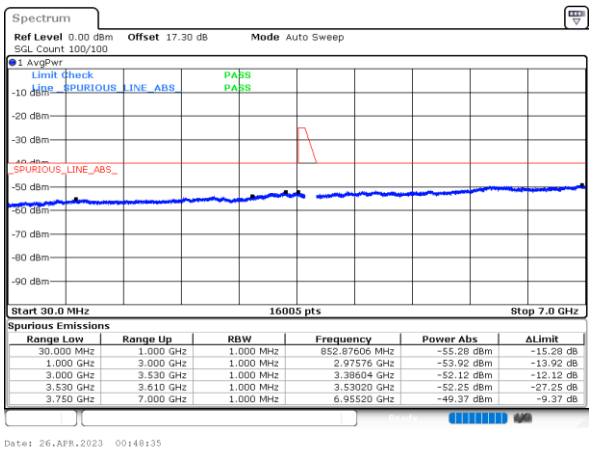


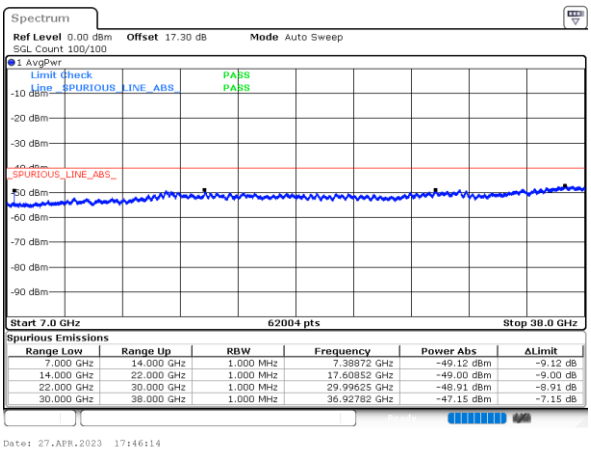
Middle Channel / 1RB99 and 1RB0





Highest Channel / 1RB99 and 1RB0

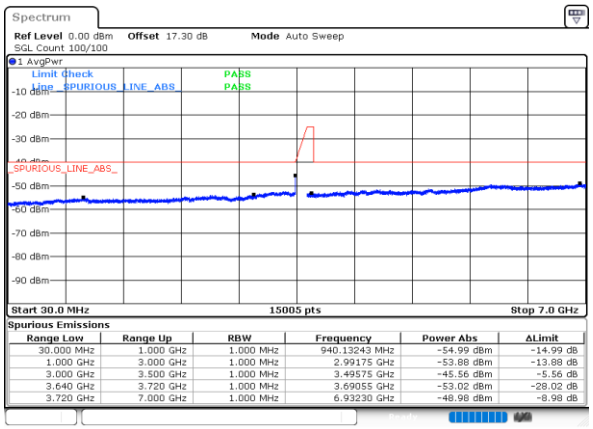




LTE Band 48C / 20MHz+10MHz

QPSK

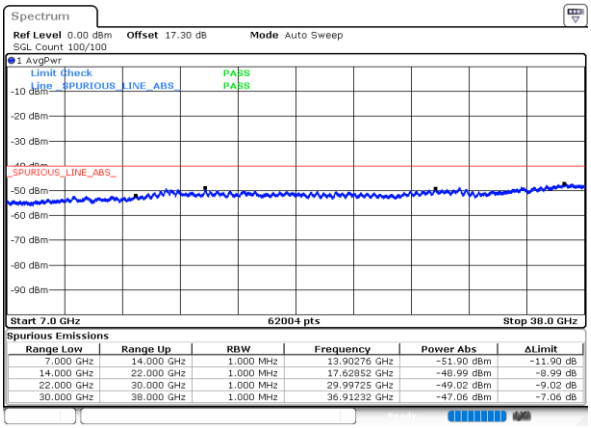
Lowest Channel / 1RB0 and 1RB49



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	940.13243 MHz	-54.99 dBm	-14.99 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99175 GHz	-53.88 dBm	-13.88 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.49575 GHz	-45.56 dBm	-5.56 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.69055 GHz	-53.02 dBm	-28.02 dB
3.720 GHz	7.000 GHz	1.000 MHz	6.93230 GHz	-48.98 dBm	-8.98 dB

Date: 26.APR.2023 02:15:54

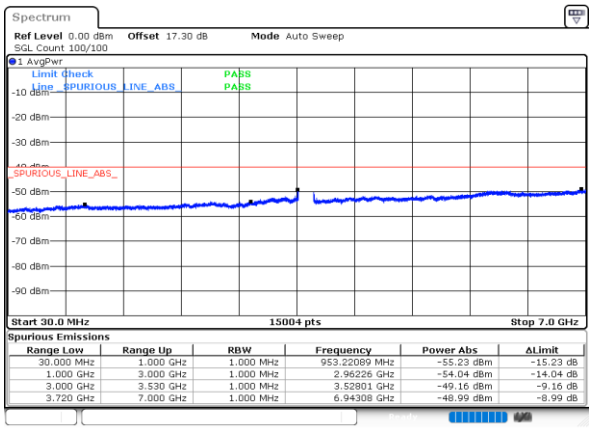


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	13.90276 GHz	-51.90 dBm	-11.90 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.62852 GHz	-48.99 dBm	-8.99 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.99725 GHz	-49.02 dBm	-9.02 dB
30.000 GHz	38.000 GHz	1.000 MHz	36.91232 GHz	-47.06 dBm	-7.06 dB

Date: 27.APR.2023 17:59:53

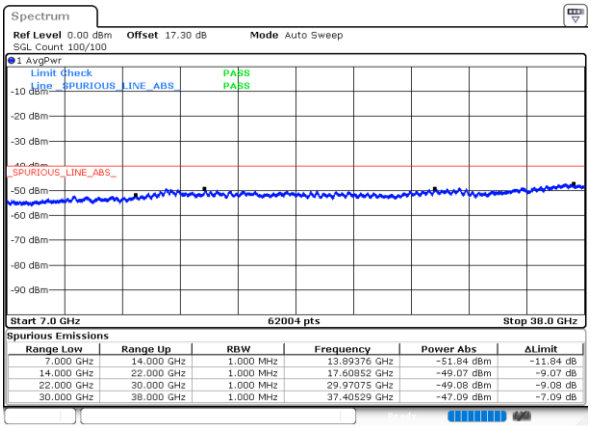
Middle Channel / 1RB0 and 1RB49



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	953.22089 MHz	-55.23 dBm	-15.23 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96226 GHz	-54.04 dBm	-14.04 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.52801 GHz	-49.16 dBm	-9.16 dB
3.720 GHz	7.000 GHz	1.000 MHz	6.94308 GHz	-48.99 dBm	-8.99 dB

Date: 26.APR.2023 02:35:58

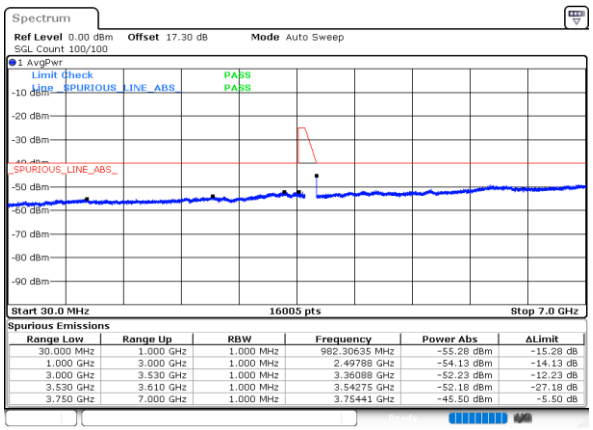


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	13.89376 GHz	-51.84 dBm	-11.84 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.60852 GHz	-49.07 dBm	-9.07 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.97075 GHz	-49.08 dBm	-9.08 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.40529 GHz	-47.09 dBm	-7.09 dB

Date: 27.APR.2023 18:01:31

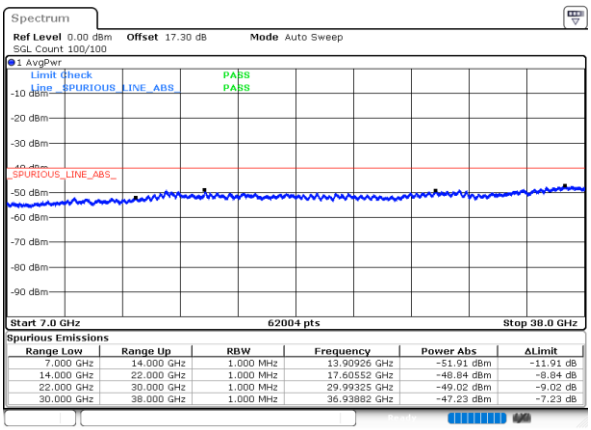
Highest Channel / 1RB0 and 1RB49



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	982.30635 MHz	-55.28 dBm	-15.28 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.49788 GHz	-54.13 dBm	-14.13 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.36088 GHz	-52.23 dBm	-12.23 dB
3.530 GHz	3.610 GHz	1.000 MHz	3.54275 GHz	-52.18 dBm	-27.18 dB
3.750 GHz	7.000 GHz	1.000 MHz	3.75441 GHz	-45.50 dBm	-5.50 dB

Date: 26.APR.2023 02:58:48



Spurious Emissions

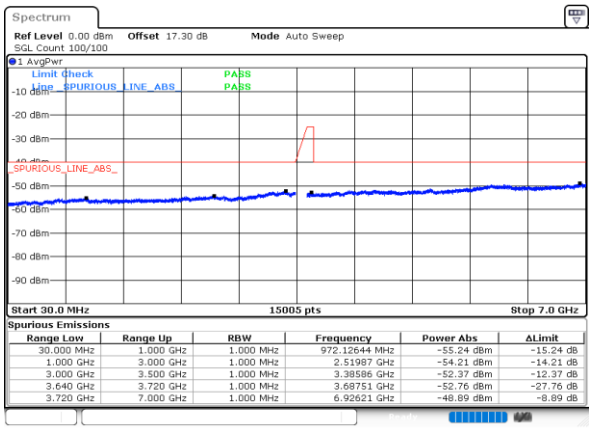
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	13.90926 GHz	-51.91 dBm	-11.91 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.60552 GHz	-48.84 dBm	-8.84 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.99325 GHz	-49.02 dBm	-9.02 dB
30.000 GHz	38.000 GHz	1.000 MHz	36.93882 GHz	-47.23 dBm	-7.23 dB

Date: 27.APR.2023 18:06:00

LTE Band 48C / 20MHz+10MHz

QPSK

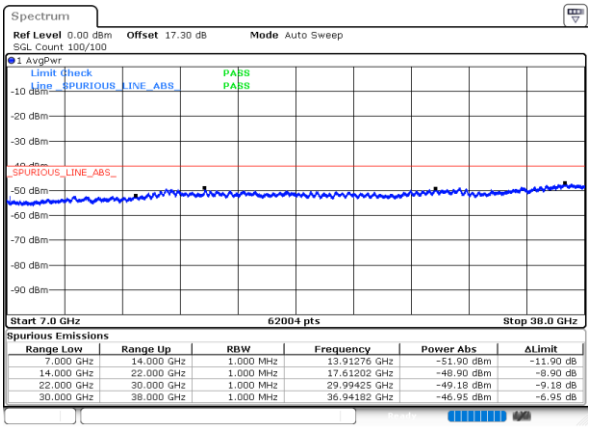
Lowest Channel / 1RB99 and 1RB0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	972.12644 MHz	-55.24 dBm	-15.24 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.51987 GHz	-54.21 dBm	-14.21 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.38586 GHz	-52.37 dBm	-12.37 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.68751 GHz	-52.76 dBm	-27.76 dB
3.720 GHz	7.000 GHz	1.000 MHz	6.92621 GHz	-48.89 dBm	-8.89 dB

Date: 26.APR.2023 02:14:28

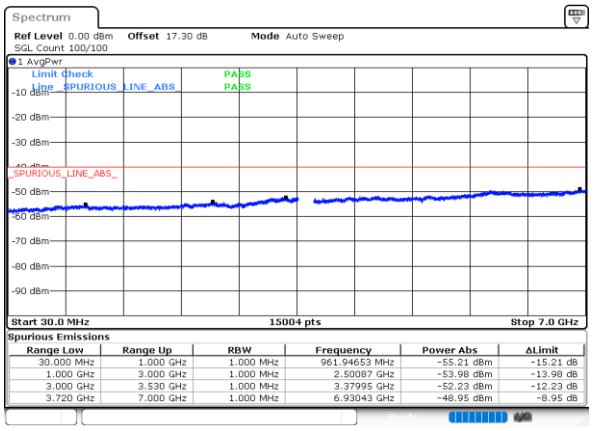


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	13.91276 GHz	-51.90 dBm	-11.90 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.61202 GHz	-48.90 dBm	-8.90 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.99425 GHz	-49.18 dBm	-9.18 dB
30.000 GHz	38.000 GHz	1.000 MHz	36.94182 GHz	-46.95 dBm	-6.95 dB

Date: 27.APR.2023 17:58:26

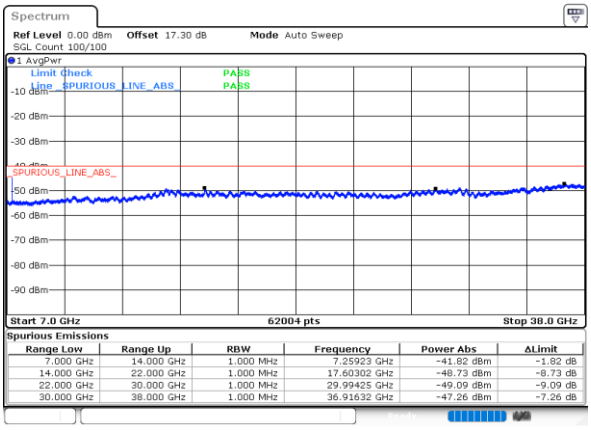
Middle Channel / 1RB99 and 1RB0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	961.94653 MHz	-55.21 dBm	-15.21 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.50087 GHz	-53.98 dBm	-13.98 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.37995 GHz	-52.23 dBm	-12.23 dB
3.720 GHz	7.000 GHz	1.000 MHz	6.93043 GHz	-48.95 dBm	-8.95 dB

Date: 26.APR.2023 02:37:24

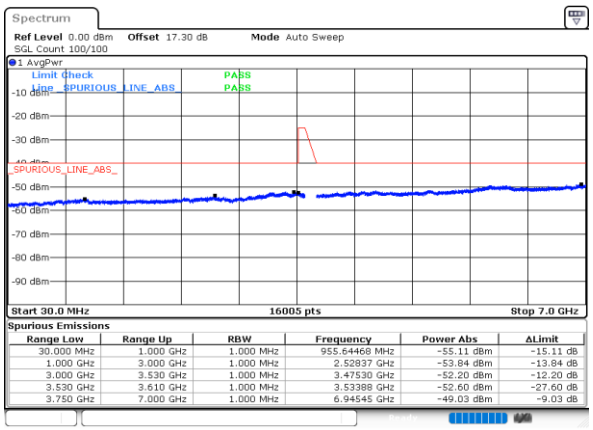


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	7.25923 GHz	-41.82 dBm	-1.82 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.60302 GHz	-48.73 dBm	-8.73 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.99425 GHz	-49.09 dBm	-9.09 dB
30.000 GHz	38.000 GHz	1.000 MHz	36.91632 GHz	-47.26 dBm	-7.26 dB

Date: 27.APR.2023 18:02:57

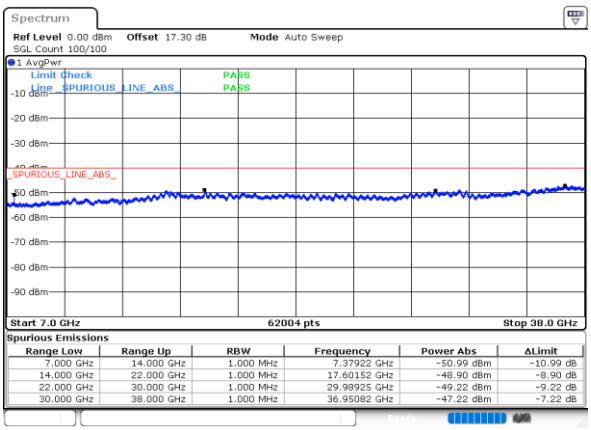
Highest Channel / 1RB99 and 1RB0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	955.64468 MHz	-55.11 dBm	-15.11 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.52837 GHz	-53.84 dBm	-13.84 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.47530 GHz	-52.20 dBm	-12.20 dB
3.530 GHz	3.610 GHz	1.000 MHz	3.53388 GHz	-52.60 dBm	-27.60 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.94545 GHz	-49.03 dBm	-9.03 dB

Date: 26.APR.2023 02:57:23



Spurious Emissions

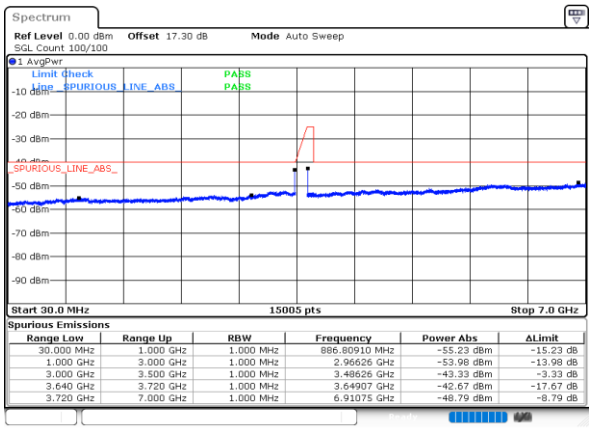
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	7.37922 GHz	-50.99 dBm	-10.99 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.60152 GHz	-48.90 dBm	-8.90 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.98925 GHz	-49.22 dBm	-9.22 dB
30.000 GHz	38.000 GHz	1.000 MHz	36.95082 GHz	-47.22 dBm	-7.22 dB

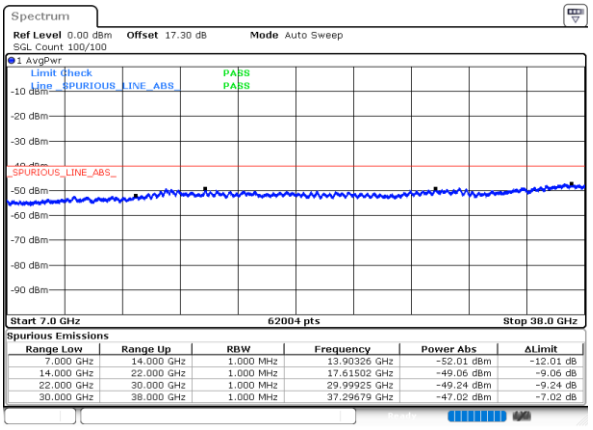
Date: 27.APR.2023 18:04:34

LTE Band 48C / 20MHz+15MHz

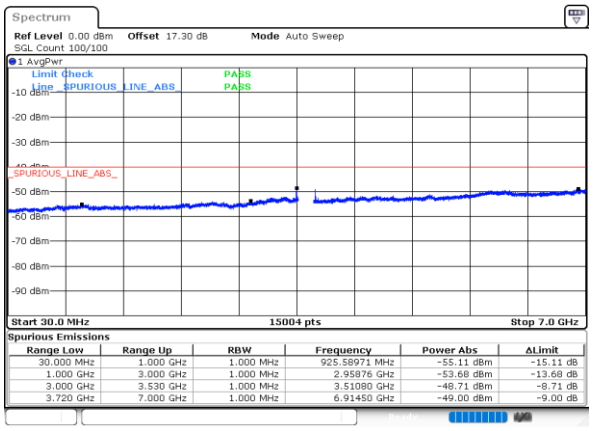
QPSK

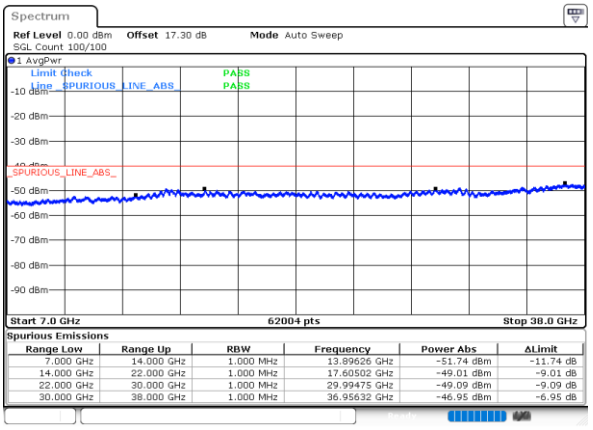
Lowest Channel / 1RB0 and 1RB74



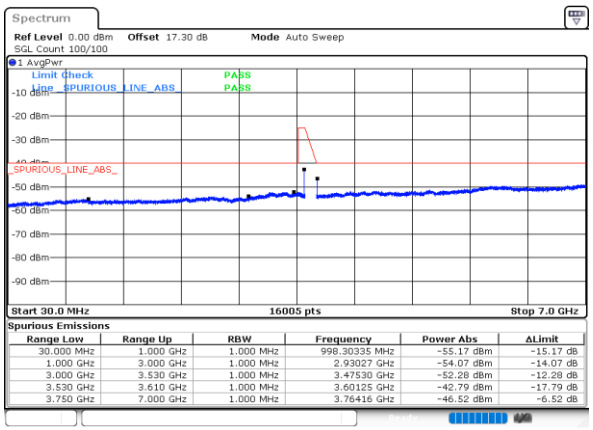


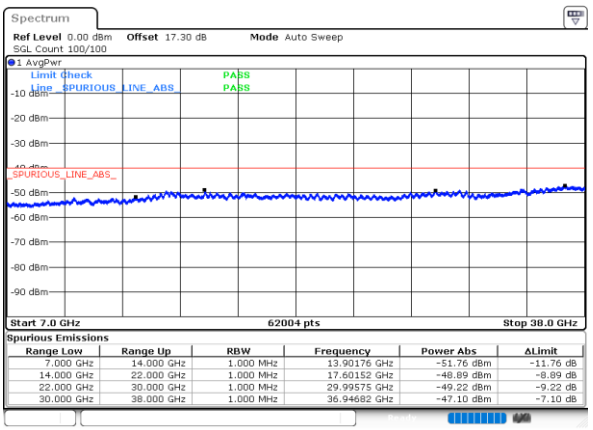
Middle Channel / 1RB0 and 1RB74





Highest Channel / 1RB0 and 1RB74

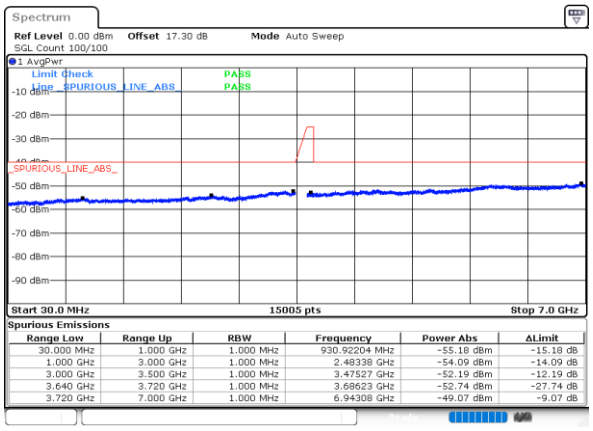


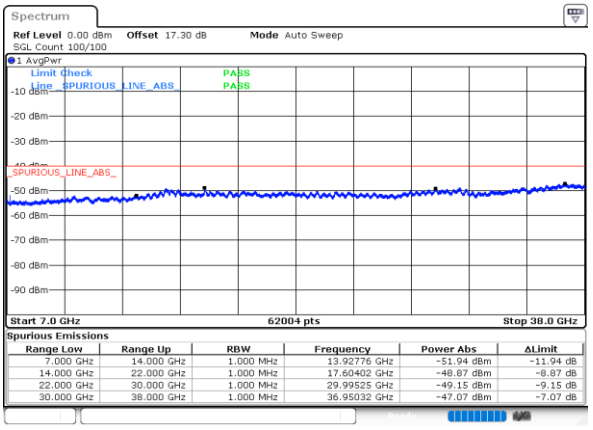


LTE Band 48C / 20MHz+15MHz

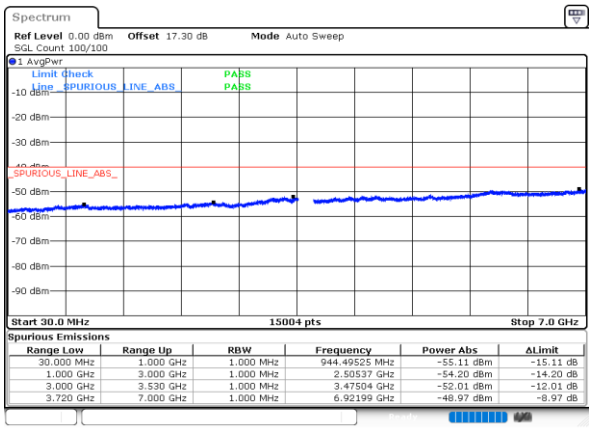
QPSK

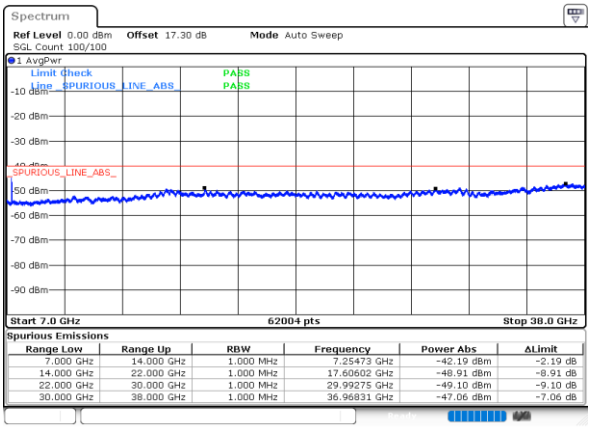
Lowest Channel / 1RB99 and 1RB0



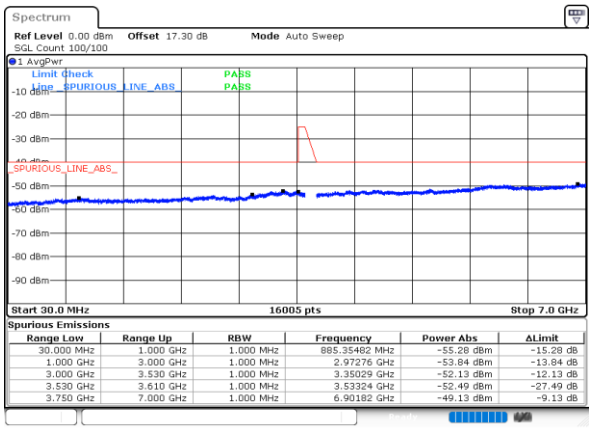


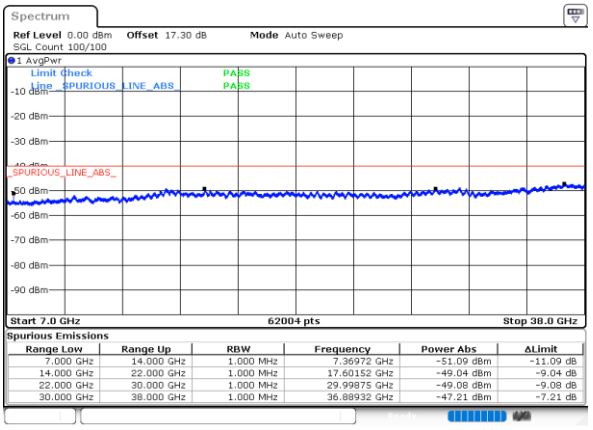
Middle Channel / 1RB99 and 1RB0





Highest Channel / 1RB99 and 1RB0

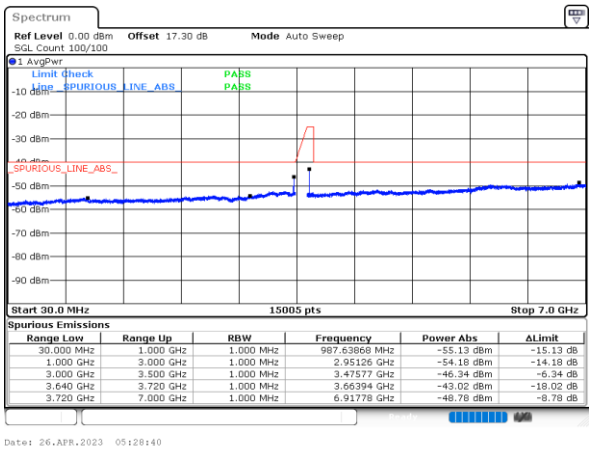


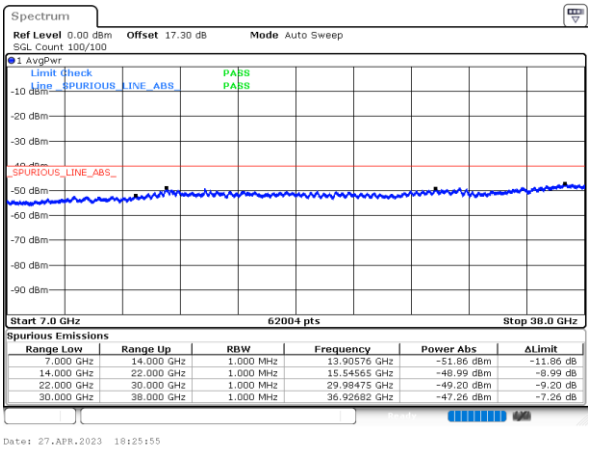


LTE Band 48C / 20MHz+20MHz

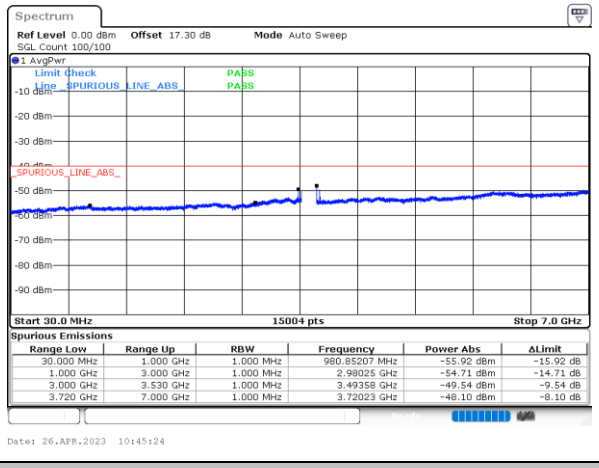
QPSK

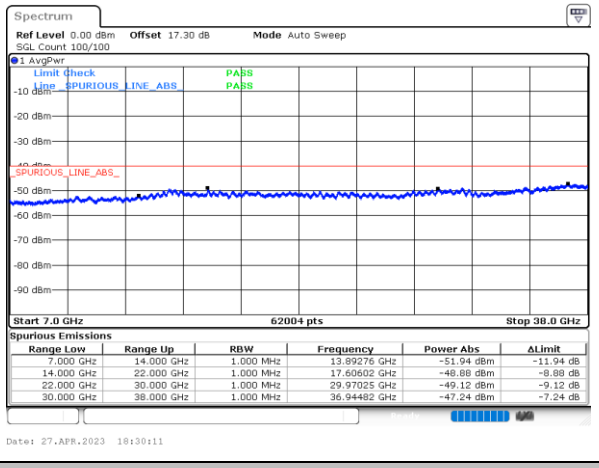
Lowest Channel / 1RB0 and 1RB99



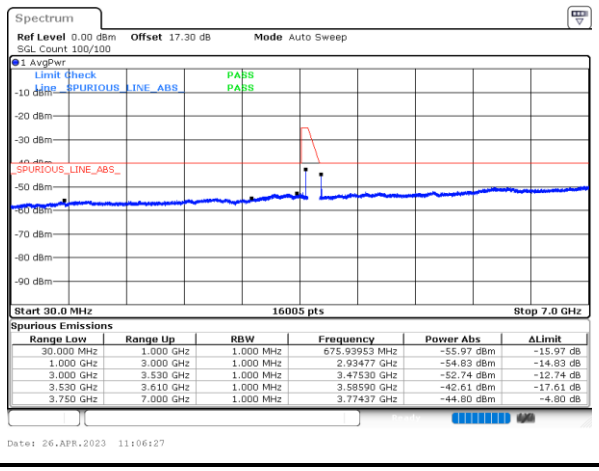


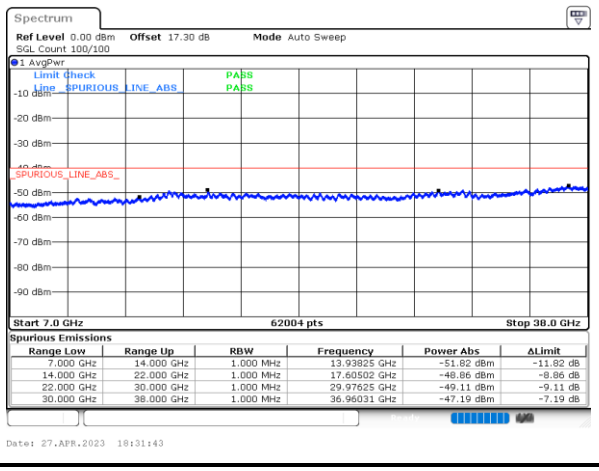
MiddleChannel / 1RB0 and 1RB99





Highest Channel / 1RB0 and 1RB99

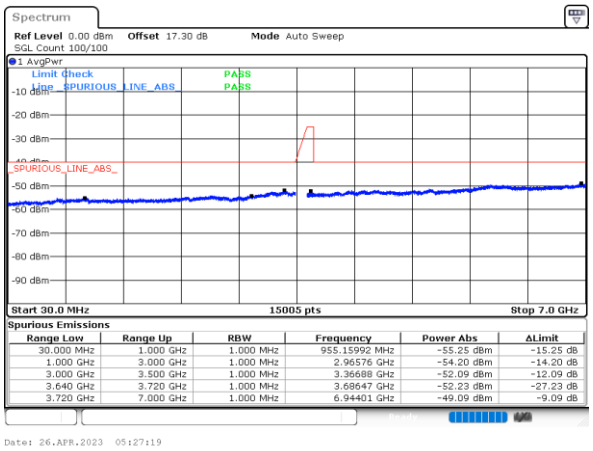


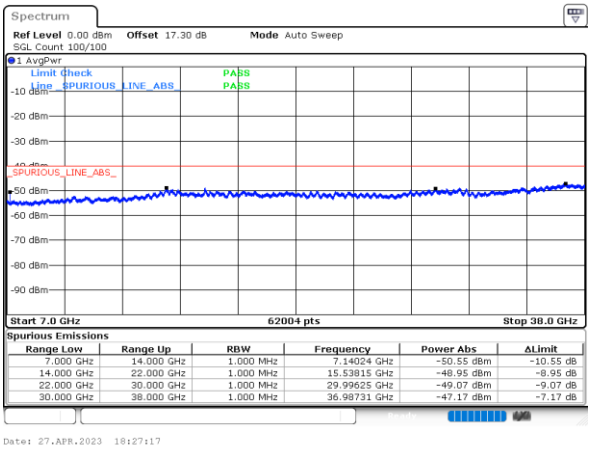


LTE Band 48C / 20MHz+20MHz

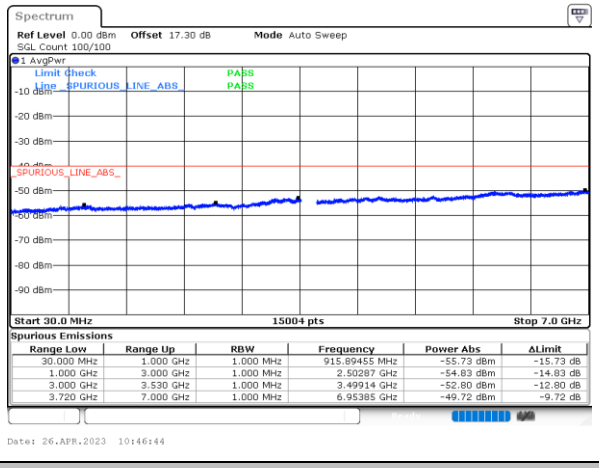
QPSK

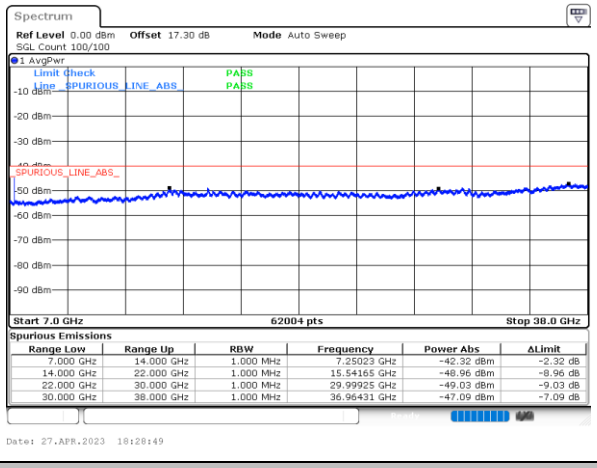
Lowest Channel / 1RB99 and 1RB0



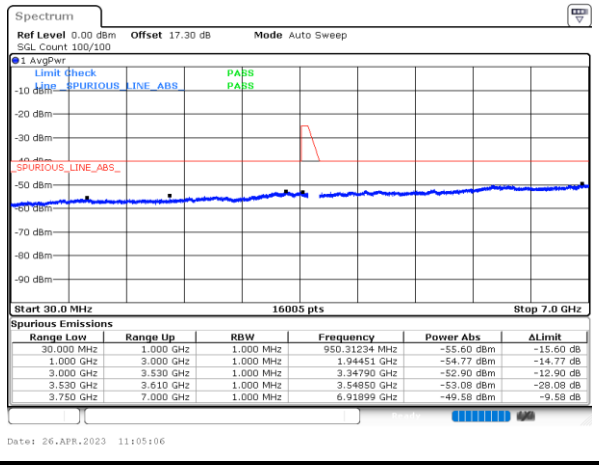


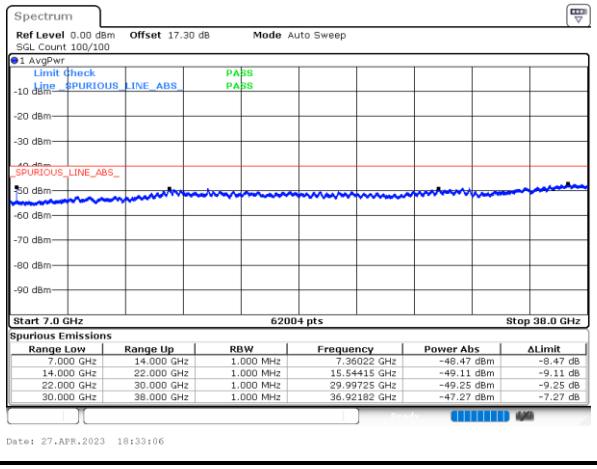
Middle Channel / 1RB99 and 1RB0





Highest Channel / 1RB99 and 1RB0





Appendix B. Test Results of Radiated Test

LTE Band 48

LTE Band 48 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7102	-58.38	-40	-18.38	-55.89	-68.08	1.84	11.55	H
	10653	-56.17	-40	-16.17	-57.64	-64.64	2.23	10.71	H
	14205	-52.18	-40	-12.18	-59.87	-61.81	2.65	12.28	H
	21306	-63.14	-40	-23.14	-76.81	-77.99	3.32	18.17	H
	24857	-60.15	-40	-20.15	-77.63	-74.92	3.71	18.49	H
	28408	-56.99	-40	-16.99	-76.5	-72.46	3.99	19.46	H
	7102	-57.88	-40	-17.88	-55.63	-67.58	1.84	11.55	V
	10653	-56.66	-40	-16.66	-57.72	-65.13	2.23	10.71	V
	14205	-52.62	-40	-12.62	-60.18	-62.25	2.65	12.28	V
	21306	-63.77	-40	-23.77	-77.13	-78.62	3.32	18.17	V
	24857	-60.31	-40	-20.31	-77.47	-75.08	3.71	18.49	V
	28408	-57.15	-40	-17.15	-76.24	-72.62	3.99	19.46	V
Middle	7232	-58.42	-40	-18.42	-56.2	-67.88	1.86	11.32	H
	10848	-56.50	-40	-16.50	-58.31	-64.88	2.22	10.59	H
	14464	-52.40	-40	-12.40	-60.2	-61.90	2.62	12.12	H
	18080	-61.55	-40	-21.55	-72.35	-75.92	3.23	17.60	H
	21696	-61.61	-40	-21.61	-75.99	-76.78	3.42	18.60	H
	25312	-59.57	-40	-19.57	-77.15	-74.57	3.77	18.77	H
	7232	-57.90	-40	-17.90	-56.03	-67.36	1.86	11.32	V
	10848	-56.37	-40	-16.37	-57.95	-64.75	2.22	10.59	V
	14464	-52.14	-40	-12.14	-60.38	-61.64	2.62	12.12	V
	18080	-61.69	-40	-21.69	-72.19	-76.06	3.23	17.60	V
	21696	-62.24	-40	-22.24	-76.29	-77.41	3.42	18.60	V
	25312	-60.19	-40	-20.19	-77.48	-75.19	3.77	18.77	V

Highest	7362	-57.10	-40	-17.10	-55.33	-66.56	1.92	11.38	H
	11043	-54.66	-40	-14.66	-56.87	-62.99	2.22	10.55	H
	14724	-52.62	-40	-12.62	-60.71	-62.62	2.59	12.59	H
	18405	-63.04	-40	-23.04	-74.21	-77.40	3.24	17.60	H
	22086	-62.55	-40	-22.55	-77.22	-77.92	3.52	18.88	H
	25767	-59.31	-40	-19.31	-77.16	-74.48	3.88	19.05	H
	7362	-56.81	-40	-16.81	-55.19	-66.27	1.92	11.38	V
	11043	-53.99	-40	-13.99	-56.13	-62.32	2.22	10.55	V
	14724	-51.80	-40	-11.80	-60.85	-61.80	2.59	12.59	V
	18405	-62.91	-40	-22.91	-73.85	-77.27	3.24	17.60	V
	22086	-62.93	-40	-22.93	-77.22	-78.30	3.52	18.88	V
	25767	-59.40	-40	-19.40	-76.96	-74.57	3.88	19.05	V

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

LTE Band 48C

LTE Band 48C / 20+20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7140	-58.74	-40	-18.74	-56.31	-68.35	1.84	11.45	H
	10705	-55.39	-40	-15.39	-56.95	-63.84	2.23	10.68	H
	14279	-51.03	-40	-11.03	-58.75	-60.62	2.64	12.23	H
	21418	-62.61	-40	-22.61	-76.61	-77.56	3.35	18.30	H
	24981	-59.49	-40	-19.49	-76.97	-74.20	3.70	18.41	H
	28556	-56.54	-40	-16.54	-76.16	-71.94	3.99	19.39	H
	7140	-58.96	-40	-18.96	-56.84	-68.57	1.84	11.45	V
	10705	-55.74	-40	-15.74	-56.94	-64.19	2.23	10.68	V
	14279	-50.55	-40	-10.55	-58.29	-60.14	2.64	12.23	V
	21418	-62.55	-40	-22.55	-76.24	-77.50	3.35	18.30	V
	24981	-59.92	-40	-19.92	-77.08	-74.63	3.70	18.41	V
	28556	-56.96	-40	-16.96	-76.16	-72.36	3.99	19.39	V
Middle	7250	-58.39	-40	-18.39	-56.23	-67.85	1.87	11.33	H
	10870	-54.38	-40	-14.38	-56.24	-62.74	2.21	10.58	H
	14498	-51.17	-40	-11.17	-58.99	-60.65	2.62	12.10	H
	18120	-61.63	-40	-21.63	-72.47	-76.00	3.23	17.60	H
	21744	-62.04	-40	-22.04	-76.44	-77.25	3.44	18.64	H
	25370	-59.13	-40	-19.13	-76.73	-74.19	3.79	18.84	H
	7250	-58.36	-40	-18.36	-56.53	-67.82	1.87	11.33	V
	10870	-53.99	-40	-13.99	-55.64	-62.35	2.21	10.58	V
	14498	-50.03	-40	-10.03	-58.36	-59.51	2.62	12.10	V
	18120	-61.91	-40	-21.91	-72.46	-76.28	3.23	17.60	V
	21744	-62.76	-40	-22.76	-76.82	-77.97	3.44	18.64	V
	25370	-60.02	-40	-20.02	-77.34	-75.08	3.79	18.84	V

Highest	7360	-57.28	-40	-17.28	-55.49	-66.74	1.92	11.38	H
	11040	-55.10	-40	-15.10	-57.29	-63.43	2.22	10.55	H
	14718	-50.62	-40	-10.62	-58.71	-60.61	2.59	12.58	H
	18395	-62.78	-40	-22.78	-73.94	-77.14	3.24	17.60	H
	22073	-61.97	-40	-21.97	-76.62	-77.34	3.51	18.89	H
	25758	-59.08	-40	-19.08	-76.92	-74.25	3.88	19.05	H
	7360	-57.44	-40	-17.44	-55.81	-66.90	1.92	11.38	V
	11040	-54.83	-40	-14.83	-56.94	-63.16	2.22	10.55	V
	14718	-49.91	-40	-9.91	-58.93	-59.90	2.59	12.58	V
	18395	-62.85	-40	-22.85	-73.77	-77.21	3.24	17.60	V
	22073	-62.91	-40	-22.91	-77.18	-78.28	3.51	18.89	V
	25758	-59.73	-40	-19.73	-77.28	-74.90	3.88	19.05	V

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

———THE END———