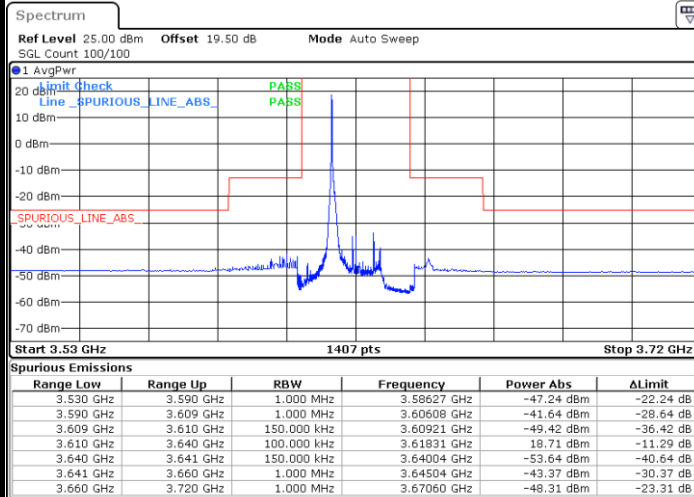




LTE Band 48 / 15MHz

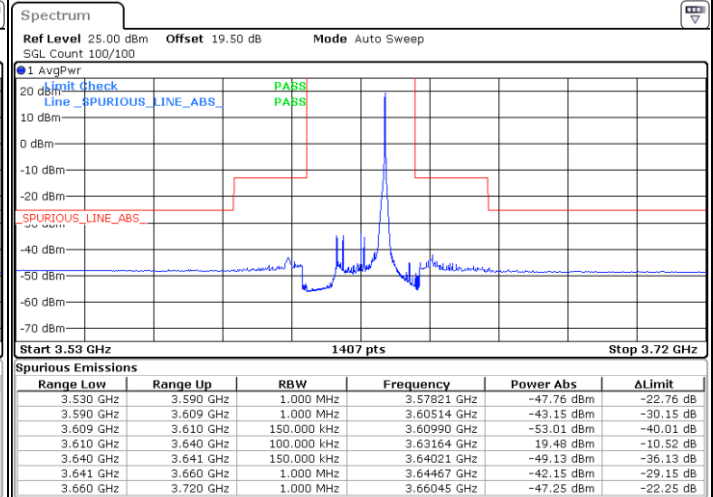
64QAM

Middle Channel / 1RB0



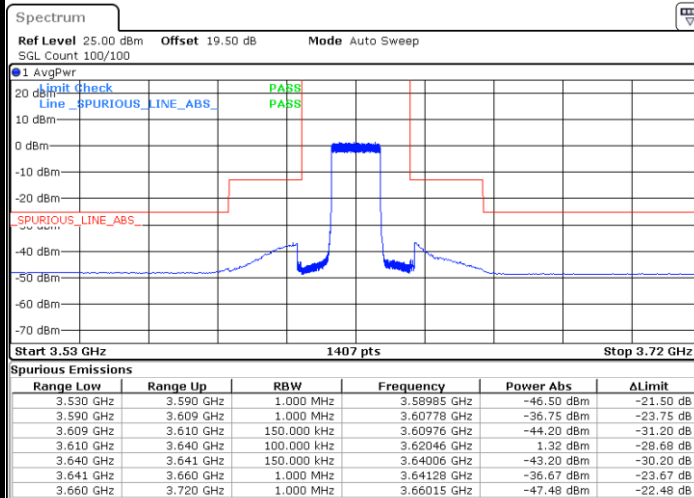
Date: 24.APR.2024 00:53:36

Middle Channel / 1RBmax



Date: 24.APR.2024 01:04:16

Middle Channel / FullRB



Date: 24.APR.2024 00:51:25

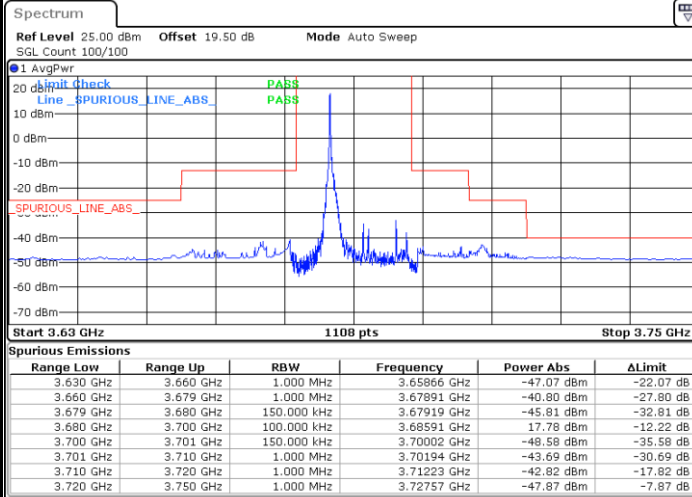
N/A



LTE Band 48 / 15MHz

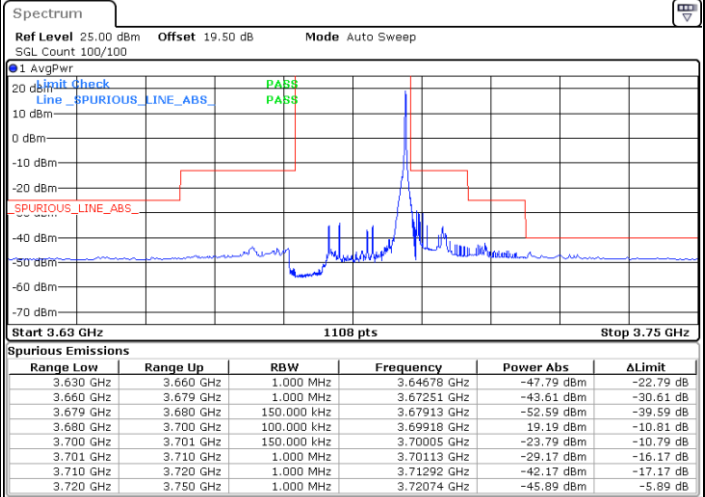
64QAM

Highest Channel / 1RB0



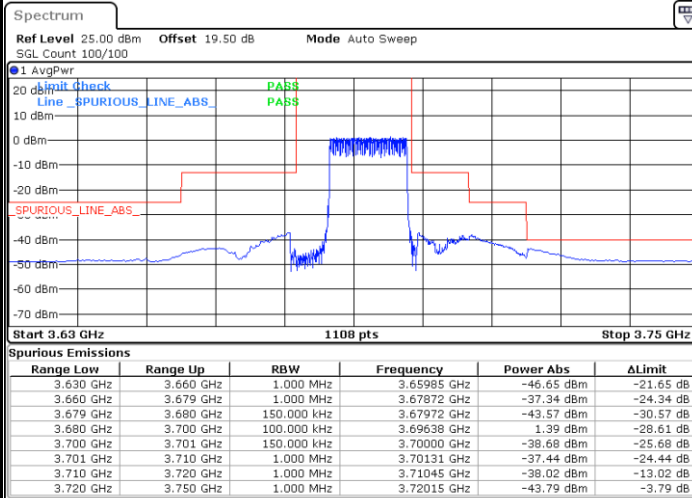
Date: 21.APR.2024 21:18:33

Highest Channel / 1RBmax



Date: 21.APR.2024 21:25:13

Highest Channel / FullRB



Date: 21.APR.2024 21:26:33

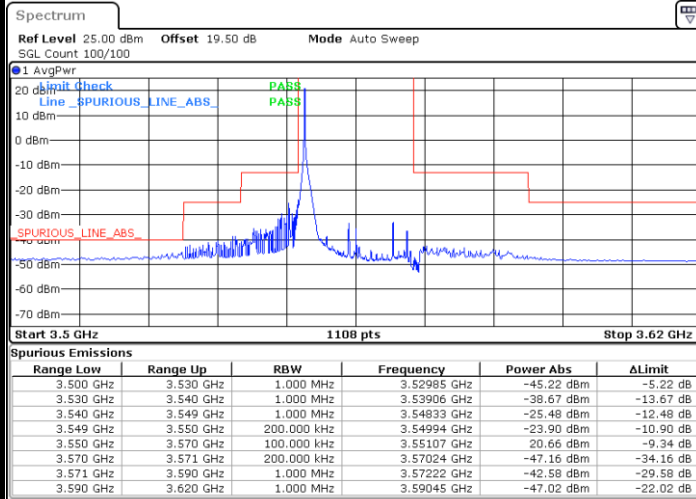
N/A



LTE Band 48 / 20MHz

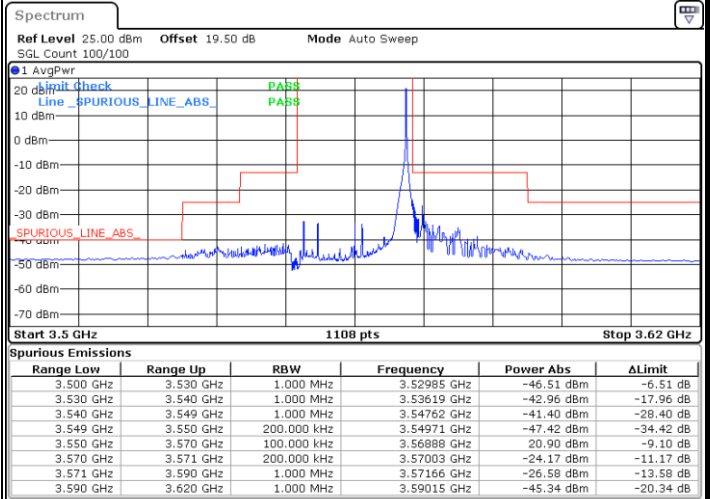
QPSK

Lowest Channel / 1RB0



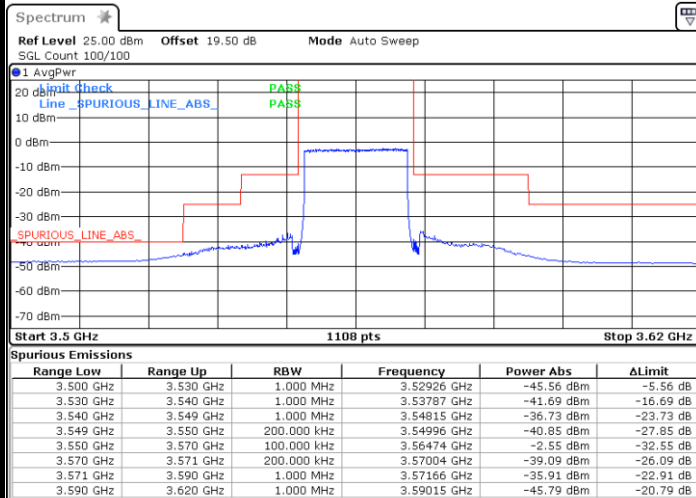
Date: 21.APR.2024 21:39:07

Lowest Channel / 1RBmax



Date: 21.APR.2024 21:45:48

Lowest Channel / FullIRB



Date: 24.APR.2024 16:54:34

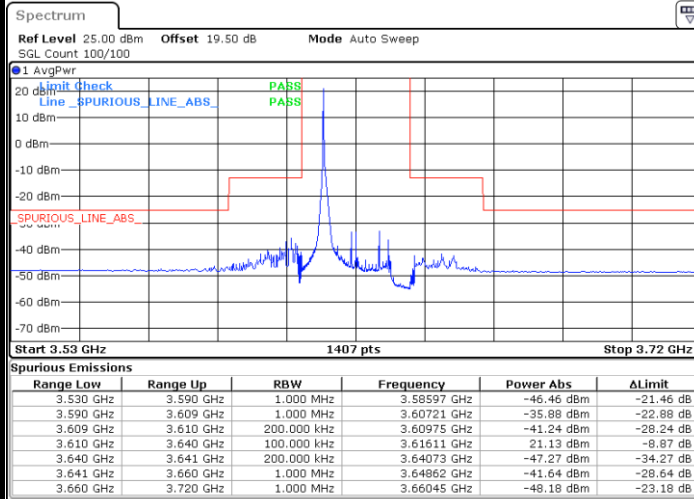
N/A



LTE Band 48 / 20MHz

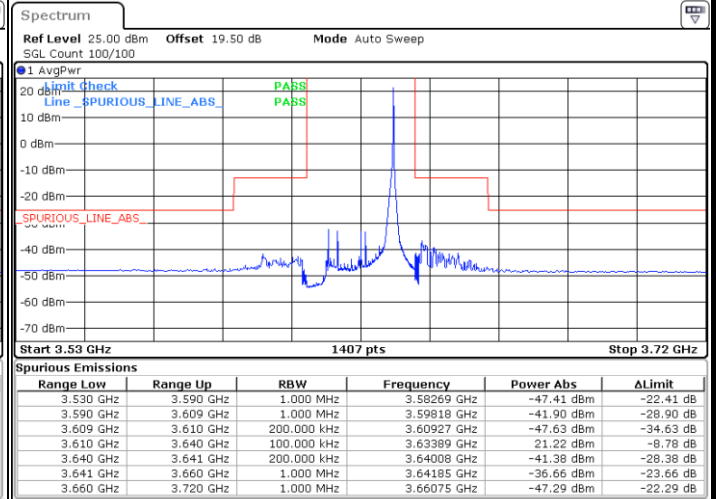
QPSK

Middle Channel / 1RB0



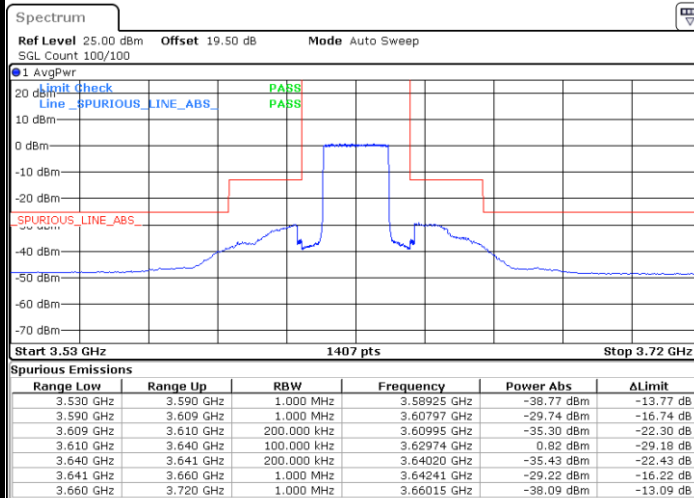
Date: 24.APR.2024 01:23:42

Middle Channel / 1RBmax



Date: 24.APR.2024 01:25:15

Middle Channel / FullIRB



Date: 24.APR.2024 01:13:13

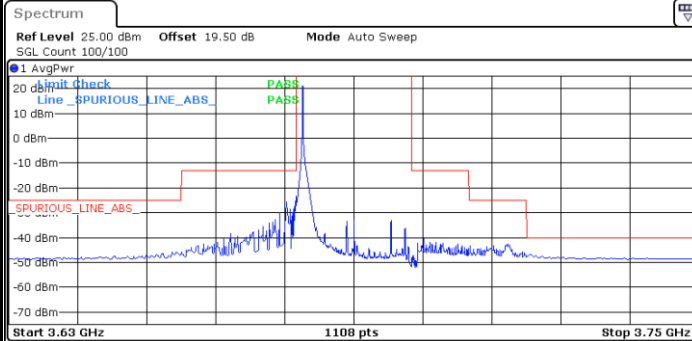
N/A



LTE Band 48 / 20MHz

QPSK

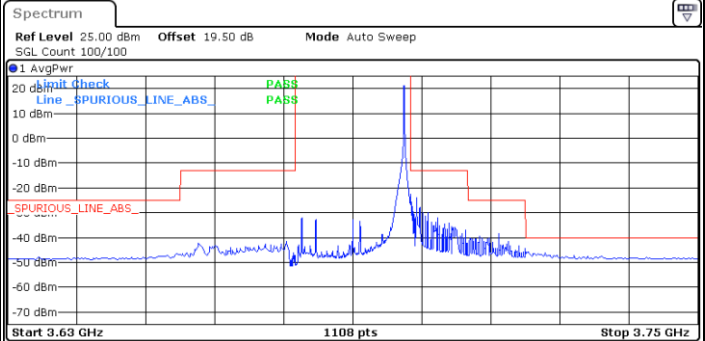
Highest Channel / 1RB0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.65837 GHz	-45.76 dBm	-20.76 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67834 GHz	-25.85 dBm	-12.85 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.67998 GHz	-23.37 dBm	-10.37 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.68107 GHz	21.09 dBm	-8.91 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70027 GHz	-47.16 dBm	-34.16 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70211 GHz	-40.66 dBm	-27.66 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71669 GHz	-42.65 dBm	-17.65 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72045 GHz	-46.67 dBm	-6.67 dB

Date: 22.APR.2024 10:36:34

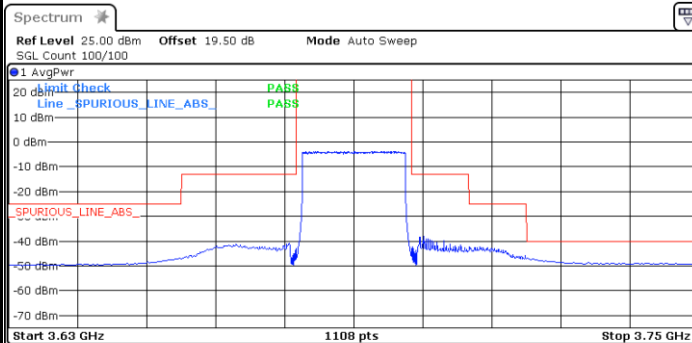
Highest Channel / 1RBmax



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.65955 GHz	-46.32 dBm	-21.32 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67853 GHz	-41.41 dBm	-28.41 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.67967 GHz	-46.07 dBm	-33.07 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.69893 GHz	21.26 dBm	-8.74 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70004 GHz	-22.61 dBm	-9.61 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70113 GHz	-23.84 dBm	-10.84 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71530 GHz	-38.52 dBm	-13.52 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72045 GHz	-45.64 dBm	-5.64 dB

Date: 22.APR.2024 10:43:14

Highest Channel / FullRB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.65985 GHz	-46.74 dBm	-21.74 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67872 GHz	-40.91 dBm	-27.91 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.67998 GHz	-42.90 dBm	-29.90 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.68362 GHz	-3.74 dBm	-33.74 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70010 GHz	-42.19 dBm	-29.19 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70211 GHz	-38.04 dBm	-25.04 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71005 GHz	-42.27 dBm	-17.27 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72015 GHz	-46.77 dBm	-6.77 dB

Date: 7.MAY.2024 03:26:53

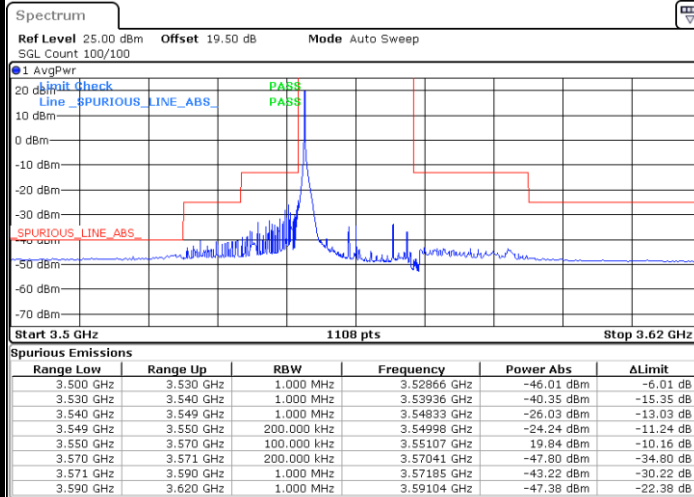
N/A



LTE Band 48 / 20MHz

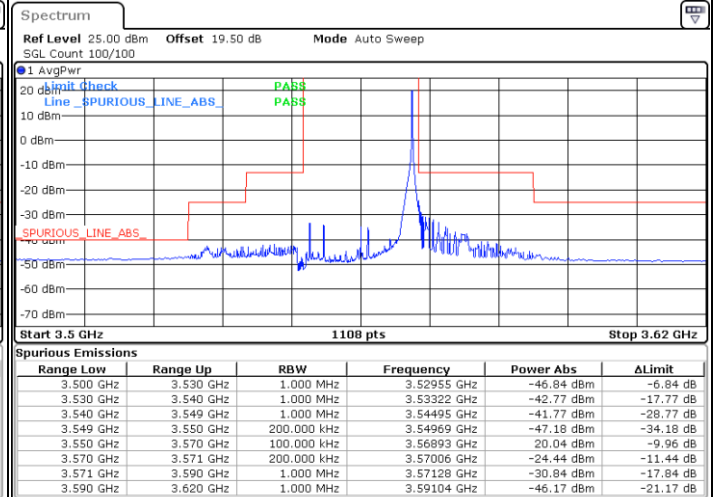
16QAM

Lowest Channel / 1RB0



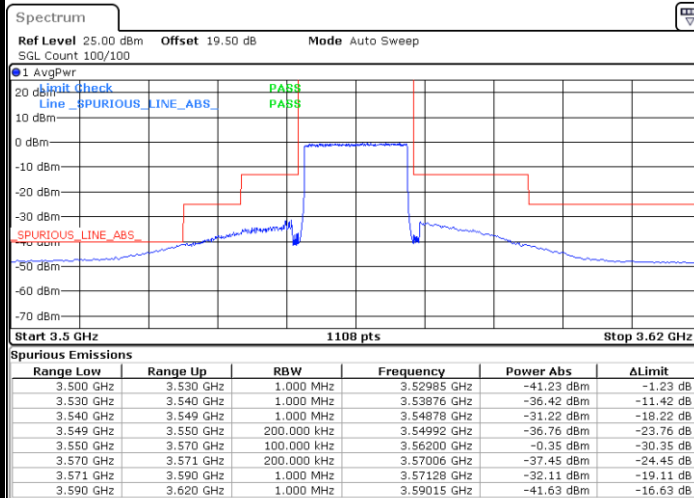
Date: 21.APR.2024 21:40:27

Lowest Channel / 1RBmax



Date: 21.APR.2024 21:44:28

Lowest Channel / FullIRB



Date: 21.APR.2024 21:48:29

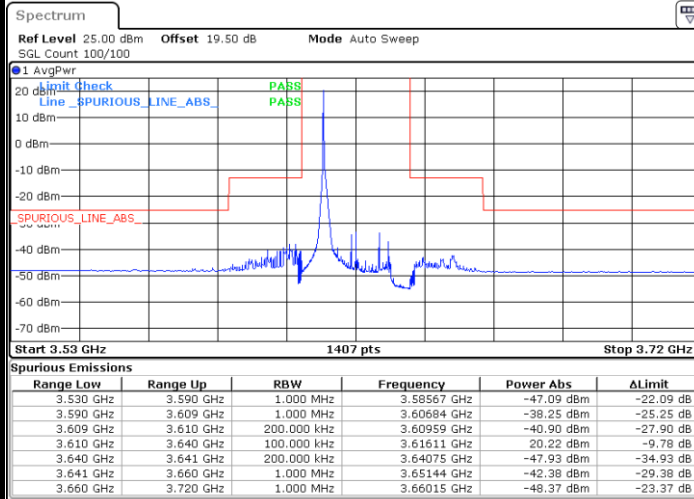
N/A



LTE Band 48 / 20MHz

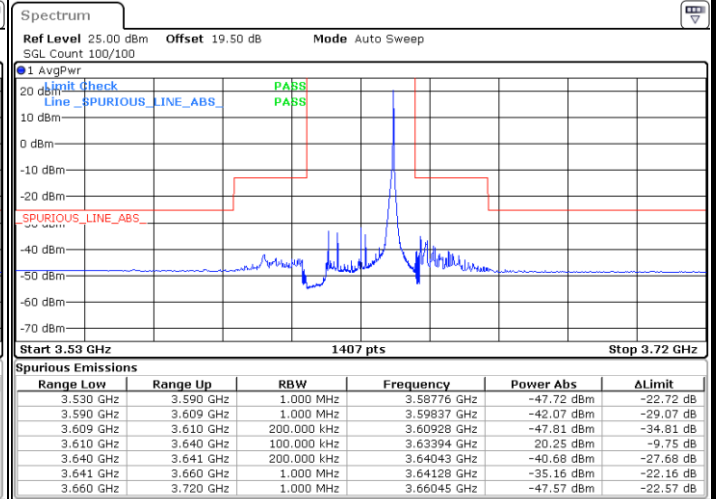
16QAM

Middle Channel / 1RB0



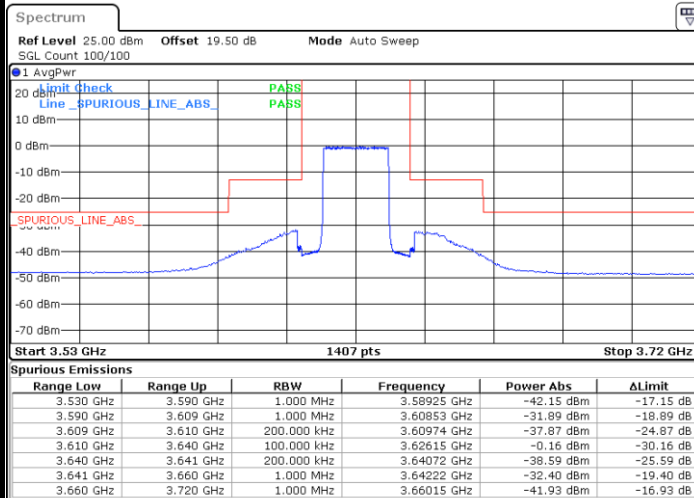
Date: 24.APR.2024 01:22:09

Middle Channel / 1RBmax



Date: 24.APR.2024 01:26:48

Middle Channel / FullRB



Date: 24.APR.2024 01:15:01

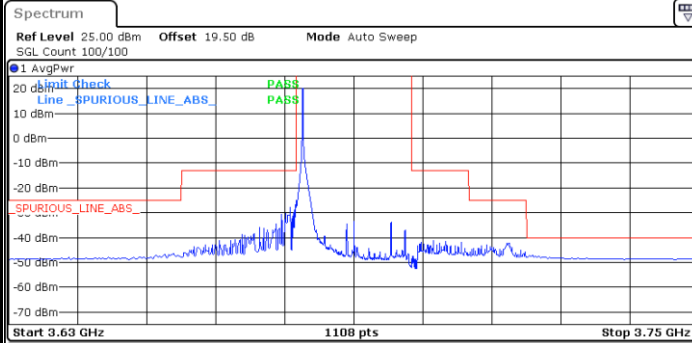
N/A



LTE Band 48 / 20MHz

16QAM

Highest Channel / 1RB0

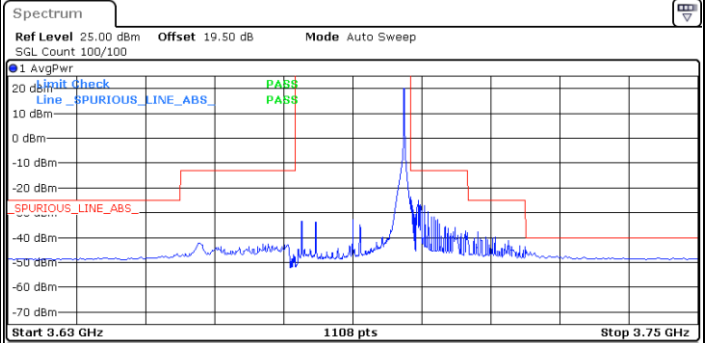


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.65866 GHz	-46.32 dBm	-21.32 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67891 GHz	-27.77 dBm	-14.77 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.67999 GHz	-25.17 dBm	-12.17 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.68107 GHz	20.10 dBm	-9.90 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70025 GHz	-47.48 dBm	-34.48 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70381 GHz	-41.10 dBm	-28.10 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71688 GHz	-42.10 dBm	-17.10 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72104 GHz	-47.06 dBm	-7.06 dB

Date: 22.APR.2024 10:37:54

Highest Channel / 1RBmax

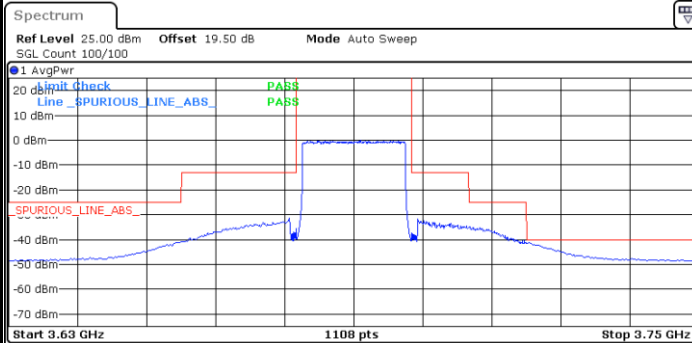


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.65955 GHz	-46.63 dBm	-21.63 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.66310 GHz	-42.13 dBm	-29.13 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.67971 GHz	-46.70 dBm	-33.70 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.69893 GHz	20.10 dBm	-9.90 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70001 GHz	-23.54 dBm	-10.54 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70140 GHz	-24.96 dBm	-11.96 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71173 GHz	-37.59 dBm	-12.59 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72015 GHz	-45.64 dBm	-5.64 dB

Date: 22.APR.2024 10:41:54

Highest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.65955 GHz	-41.17 dBm	-16.17 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67872 GHz	-31.47 dBm	-18.47 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.67993 GHz	-35.72 dBm	-22.72 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.69115 GHz	-0.10 dBm	-30.10 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70004 GHz	-37.38 dBm	-24.38 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70104 GHz	-31.71 dBm	-18.71 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71005 GHz	-34.74 dBm	-9.74 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72045 GHz	-41.36 dBm	-1.36 dB

Date: 22.APR.2024 10:45:54

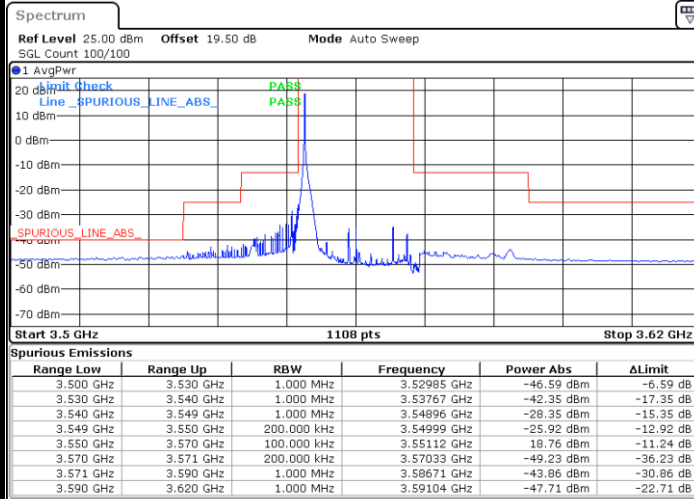
N/A



LTE Band 48 / 20MHz

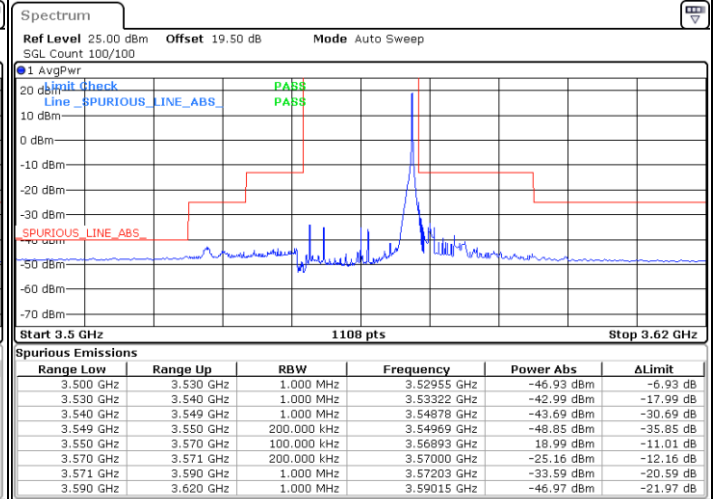
64QAM

Lowest Channel / 1RB0



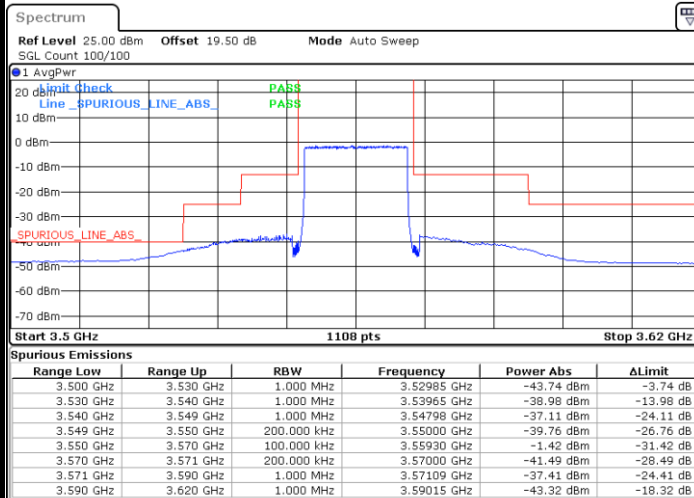
Date: 21.APR.2024 21:41:48

Lowest Channel / 1RBmax



Date: 21.APR.2024 21:43:08

Lowest Channel / FullIRB



Date: 21.APR.2024 21:49:50

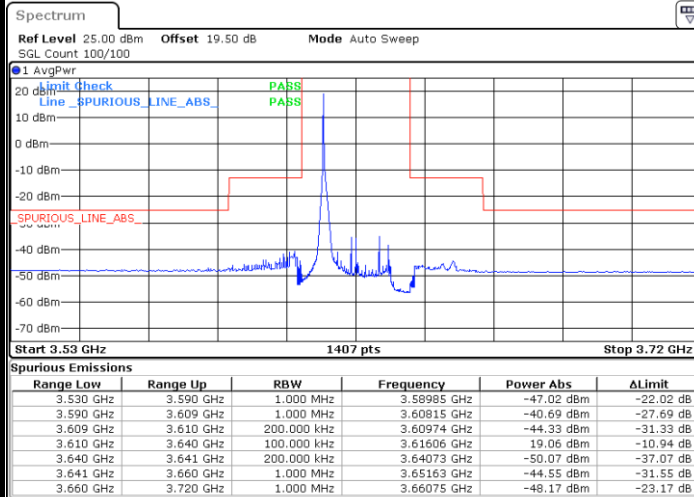
N/A



LTE Band 48 / 20MHz

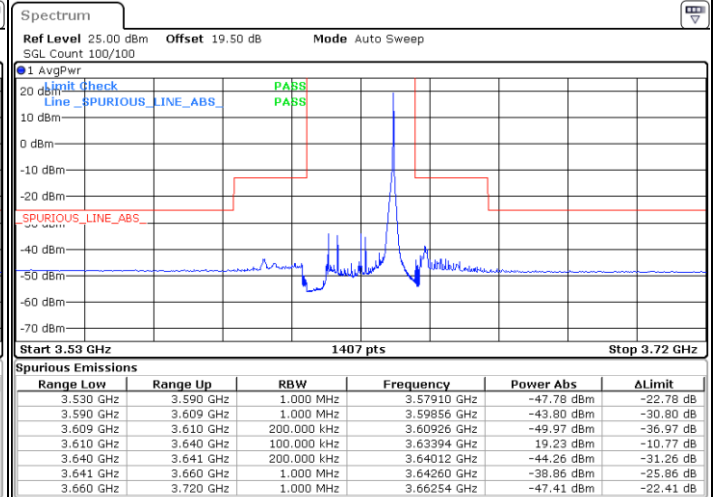
64QAM

Middle Channel / 1RB0



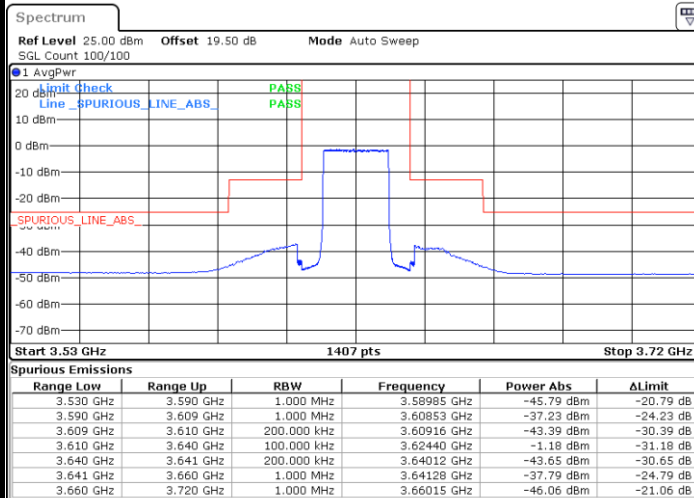
Date: 24.APR.2024 01:20:35

Middle Channel / 1RBmax



Date: 24.APR.2024 01:28:21

Middle Channel / FullIRB



Date: 24.APR.2024 01:19:02

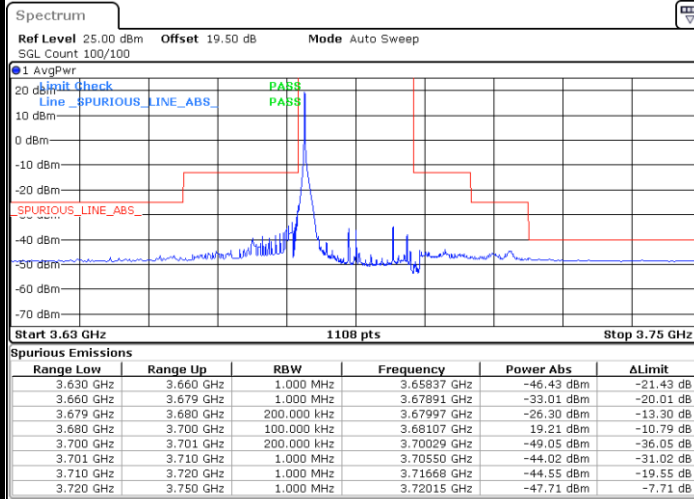
N/A



LTE Band 48 / 20MHz

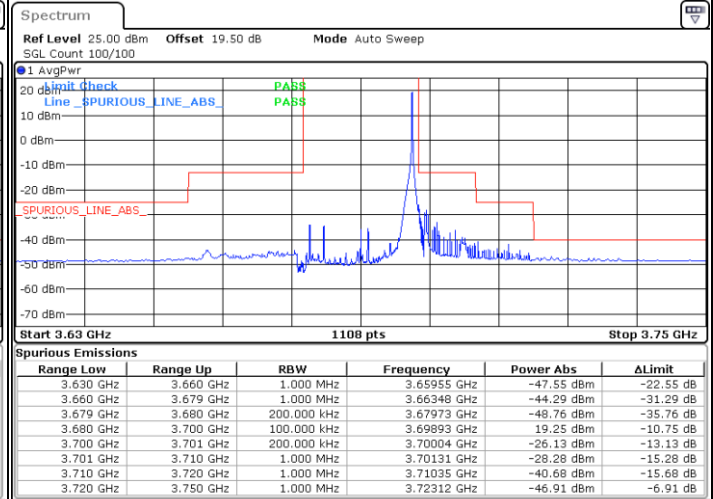
64QAM

Highest Channel / 1RB0



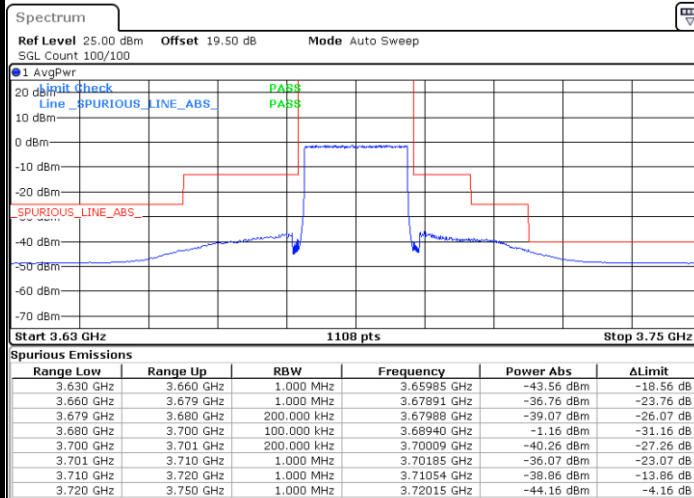
Date: 22.APR.2024 10:39:14

Highest Channel / 1RBmax



Date: 22.APR.2024 10:40:34

Highest Channel / FullRB



Date: 22.APR.2024 10:47:14

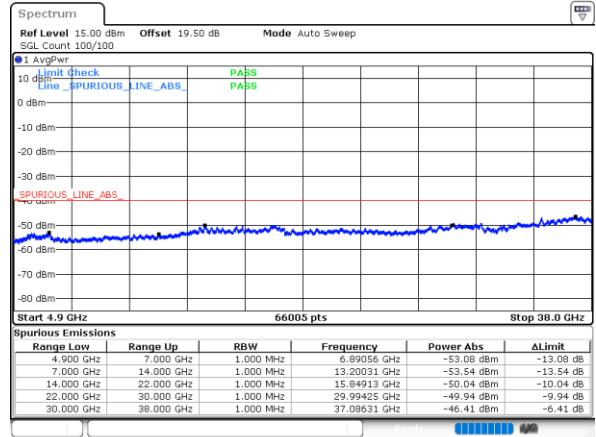
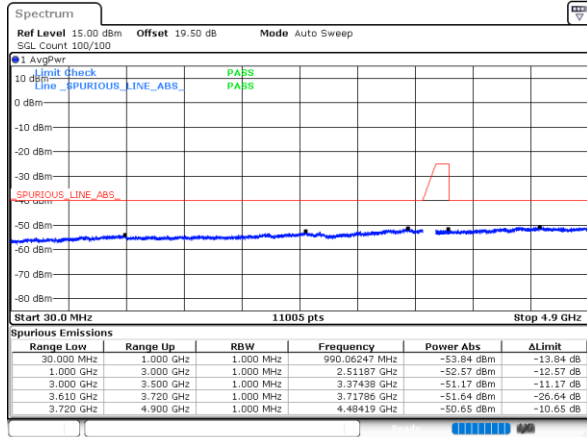
N/A



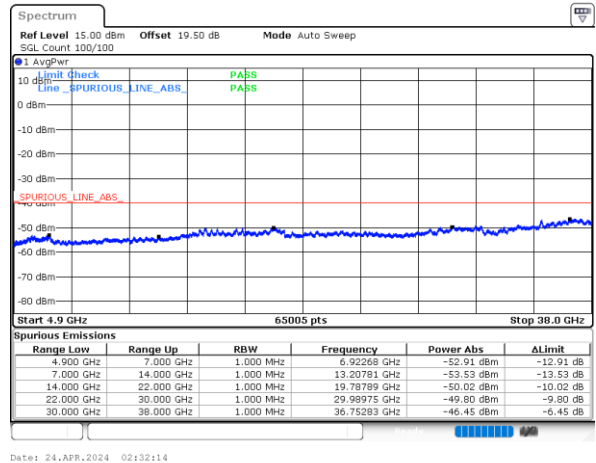
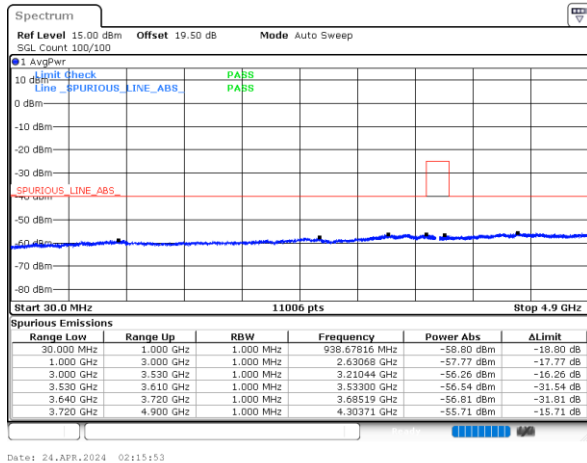
Conducted Spurious Emission

LTE Band 48 / 5MHz

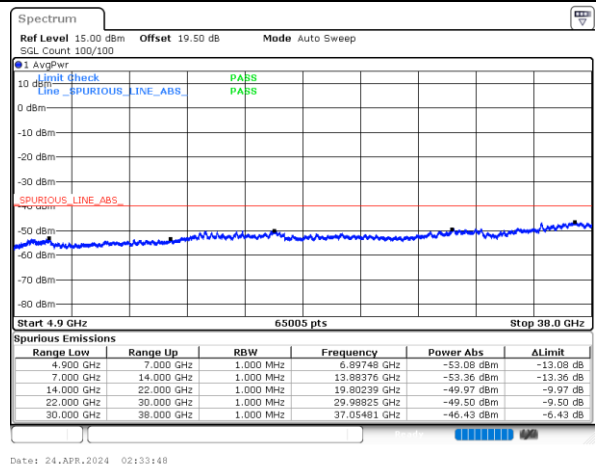
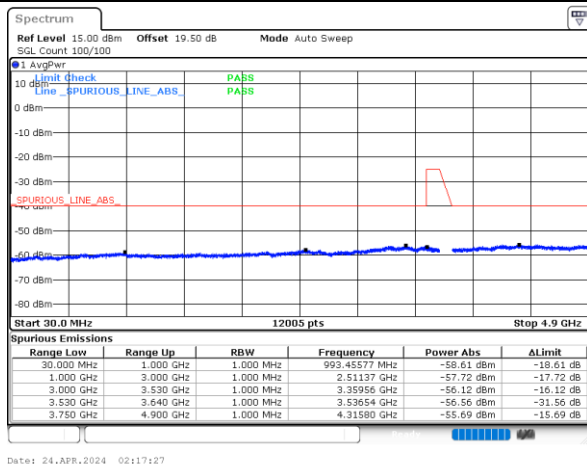
Lowest Channel / QPSK



Middle Channel / QPSK



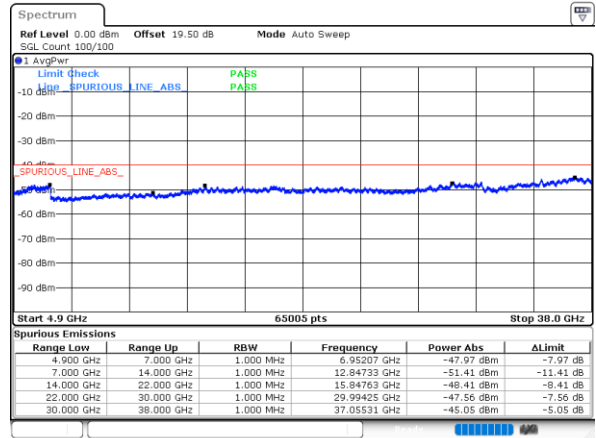
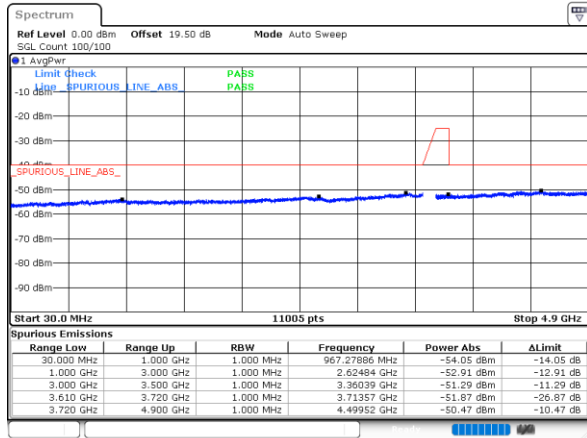
Highest Channel / QPSK



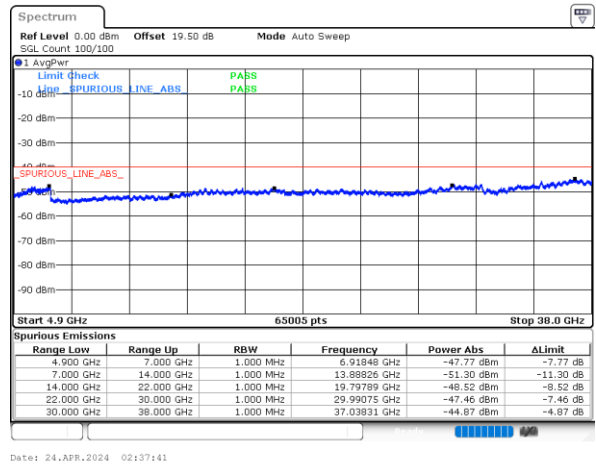
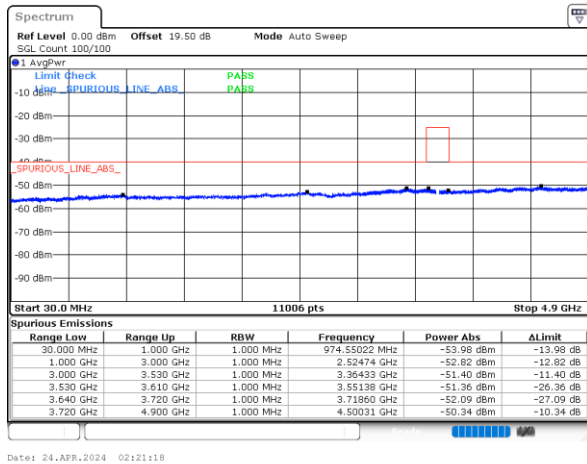


LTE Band 48 / 10MHz

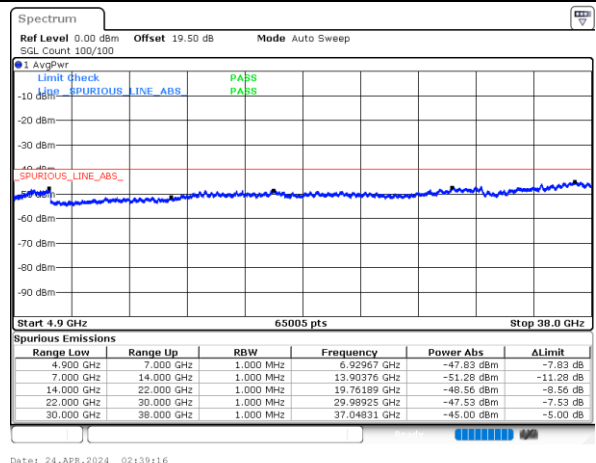
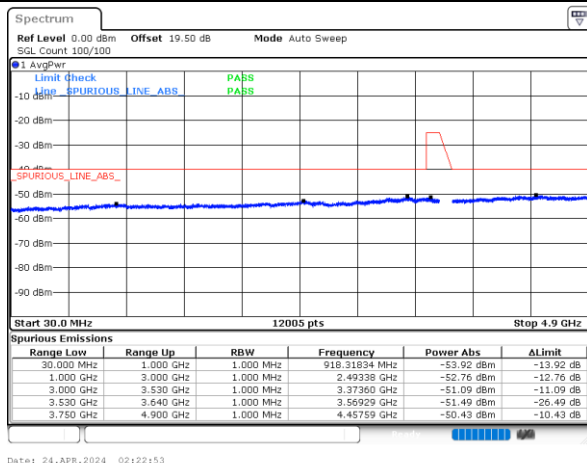
Lowest Channel / QPSK



Middle Channel / QPSK



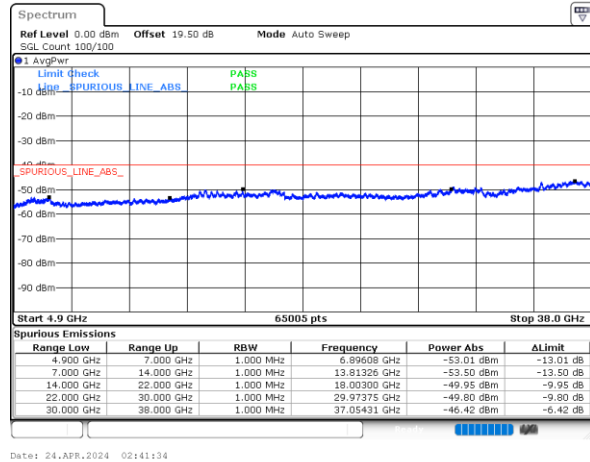
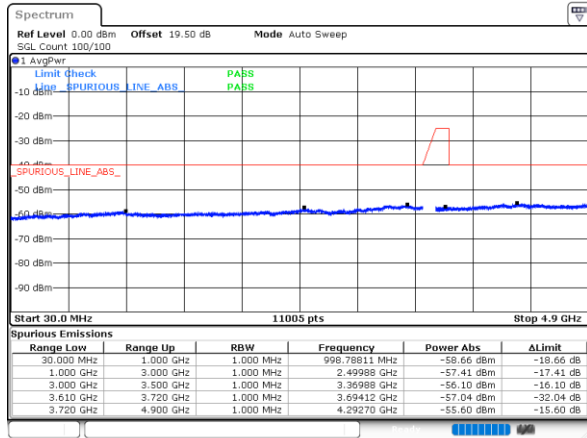
Highest Channel / QPSK



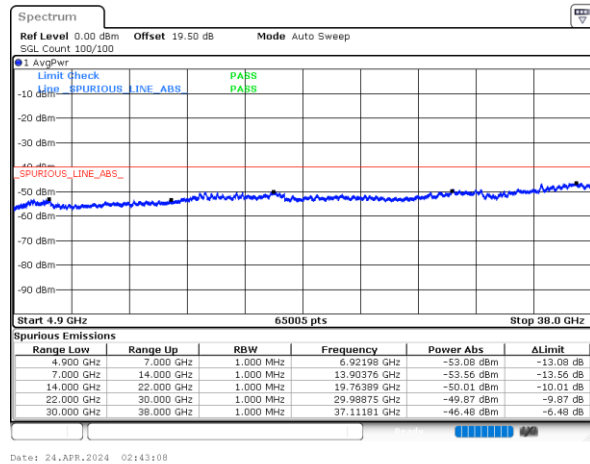
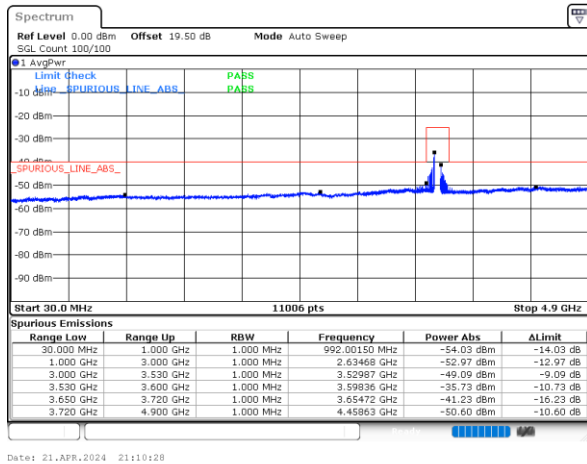


LTE Band 48 / 15MHz

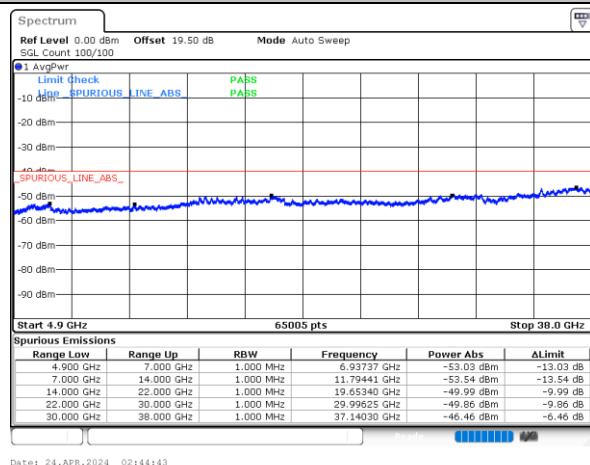
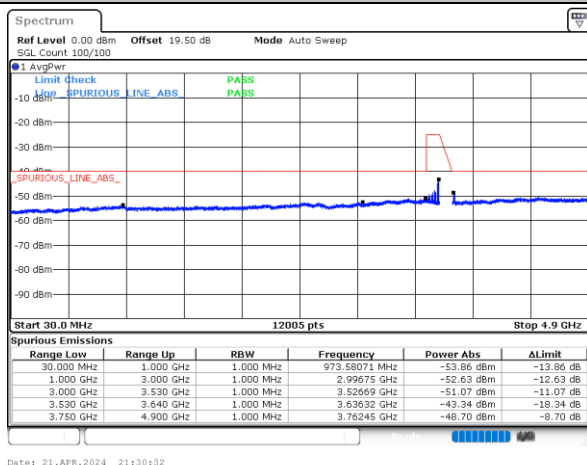
Lowest Channel / QPSK



Middle Channel / QPSK



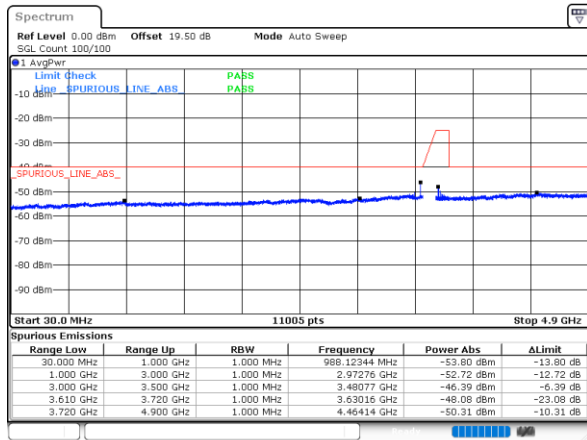
Highest Channel / QPSK



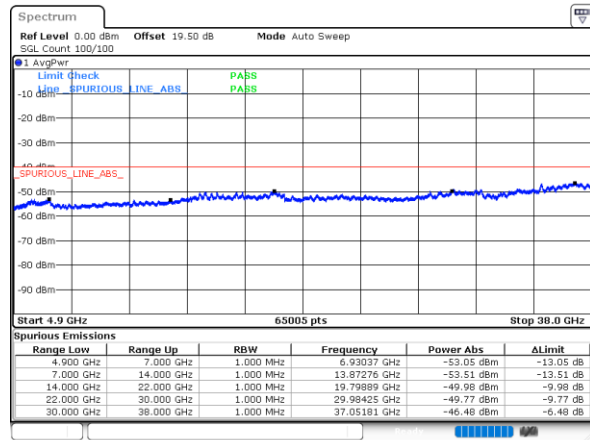


LTE Band 48 / 20MHz

Lowest Channel / QPSK

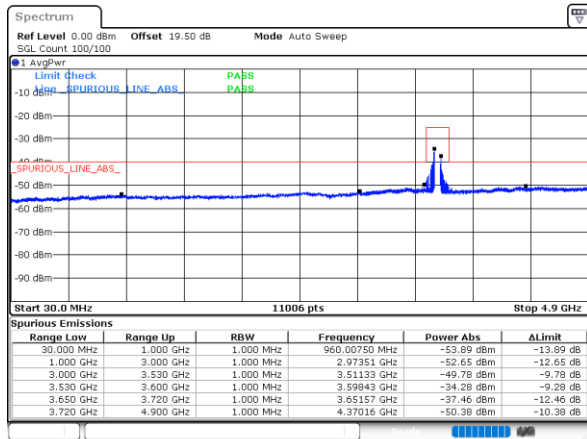


Date: 22.APR.2024 11:11:29

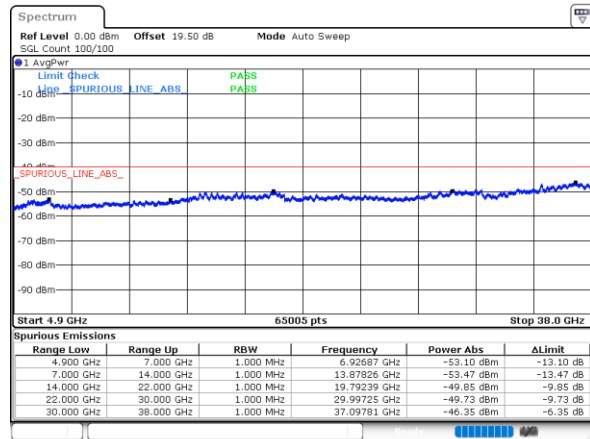


Date: 24.APR.2024 02:47:01

Middle Channel / QPSK

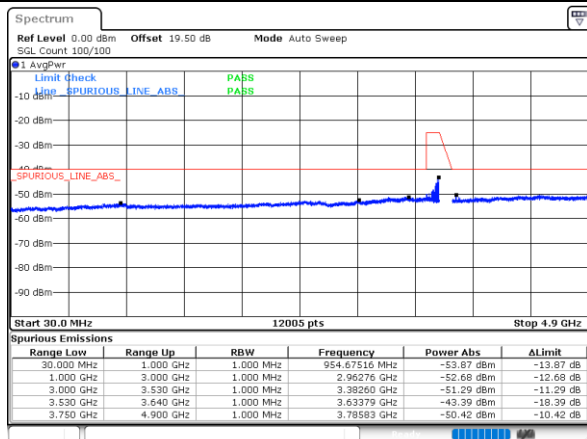


Date: 22.APR.2024 10:27:23

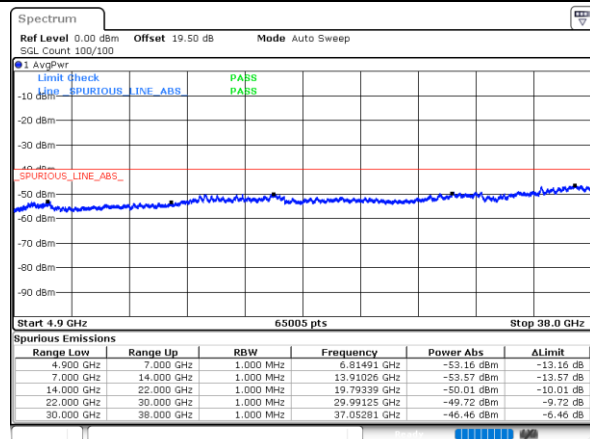


Date: 24.APR.2024 02:48:35

Highest Channel / QPSK



Date: 22.APR.2024 10:48:33



Date: 24.APR.2024 02:50:10

Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0046	PASS
40	Normal Voltage	0.0050	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0087	
-20	Normal Voltage	0.0076	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0056	

Note:

1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage = 4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Qingsheng He	Temperature :	22~25°C
		Relative Humidity :	48~52%

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

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)
Middle	7232.00	-58.71	-40	-18.71	-51.35	-62.01	8.30	11.60	H
	10848.00	-54.52	-40	-14.52	-53.55	-56.04	10.48	12.00	H
	14464.00	-53.25	-40	-13.25	-54.36	-54.95	11.80	13.50	H
	7232.00	-58.05	-40	-18.05	-51.46	-61.35	8.30	11.60	V
	10848.00	-55.08	-40	-15.08	-53.64	-56.60	10.48	12.00	V
	14464.00	-51.03	-40	-11.03	-53.79	-52.73	11.80	13.50	V

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