

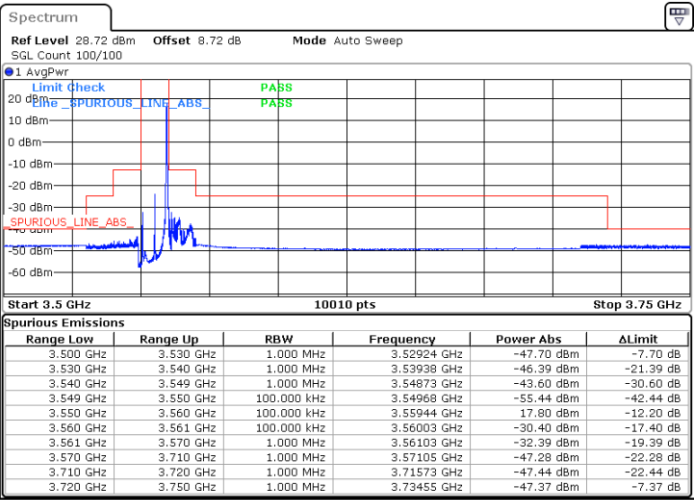
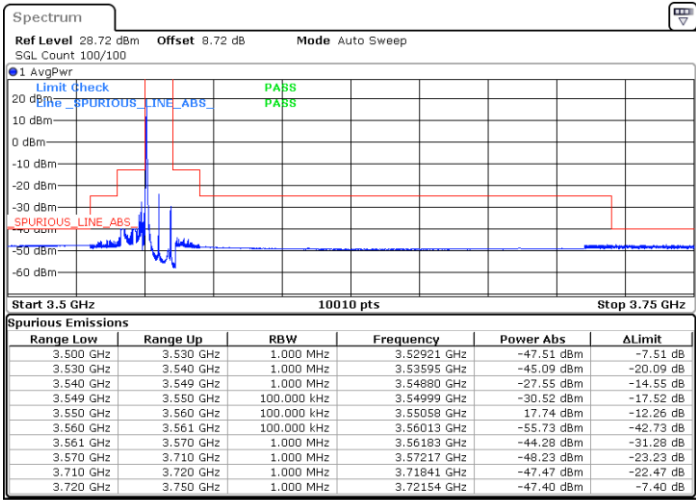


LTE Band 48 / 10MHz

256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

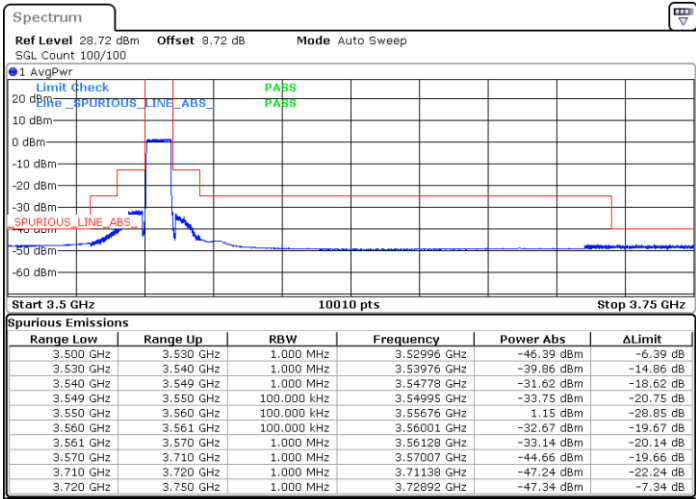


Date: 5.OCT.2022 03:18:32

Date: 5.OCT.2022 03:33:27

Lowest Channel / FullIRB

N/A



Date: 5.OCT.2022 03:39:33

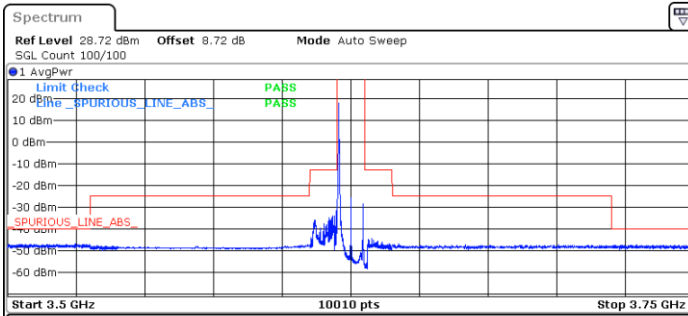


LTE Band 48 / 10MHz

256QAM

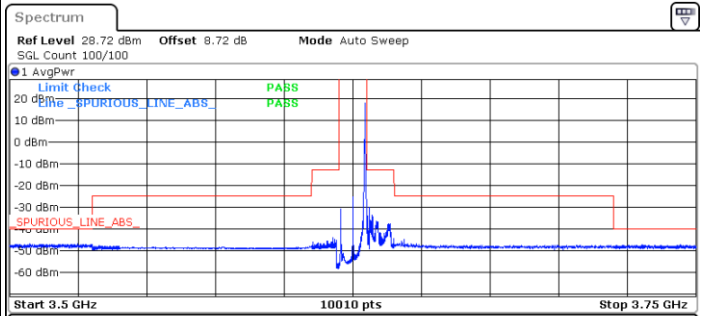
Middle Channel / 1RB0

Middle Channel / 1RBmax



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52456 GHz	-47.03 dBm	-7.03 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53264 GHz	-47.86 dBm	-22.86 dB
3.540 GHz	3.610 GHz	1.000 MHz	3.60913 GHz	-47.43 dBm	-22.43 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61889 GHz	-33.94 dBm	-20.94 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61998 GHz	-29.35 dBm	-16.35 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62059 GHz	17.80 dBm	-12.20 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63060 GHz	-55.81 dBm	-42.81 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63259 GHz	-44.53 dBm	-31.53 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64252 GHz	-46.79 dBm	-21.79 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72904 GHz	-47.12 dBm	-7.12 dB

Date: 5.OCT.2022 03:47:00

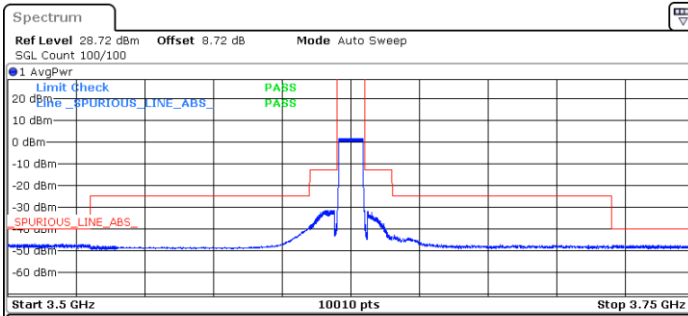


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52462 GHz	-46.92 dBm	-6.92 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53274 GHz	-47.81 dBm	-22.81 dB
3.540 GHz	3.610 GHz	1.000 MHz	3.60976 GHz	-48.02 dBm	-23.02 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61761 GHz	-44.21 dBm	-31.21 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61999 GHz	-55.72 dBm	-42.72 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62939 GHz	17.81 dBm	-12.19 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63004 GHz	-30.16 dBm	-17.16 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63113 GHz	-29.97 dBm	-16.97 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64364 GHz	-44.84 dBm	-19.84 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74426 GHz	-47.33 dBm	-7.33 dB

Date: 5.OCT.2022 03:53:12

Middle Channel / FullIRB

N/A



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51983 GHz	-46.84 dBm	-6.84 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53275 GHz	-47.85 dBm	-22.85 dB
3.540 GHz	3.610 GHz	1.000 MHz	3.60990 GHz	-38.99 dBm	-13.99 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61662 GHz	-31.50 dBm	-18.50 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61999 GHz	-33.22 dBm	-20.22 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62832 GHz	1.65 dBm	-28.35 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63002 GHz	-33.27 dBm	-20.27 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63106 GHz	-31.94 dBm	-18.94 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64068 GHz	-43.04 dBm	-18.04 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74390 GHz	-47.51 dBm	-7.51 dB

Date: 5.OCT.2022 03:59:13

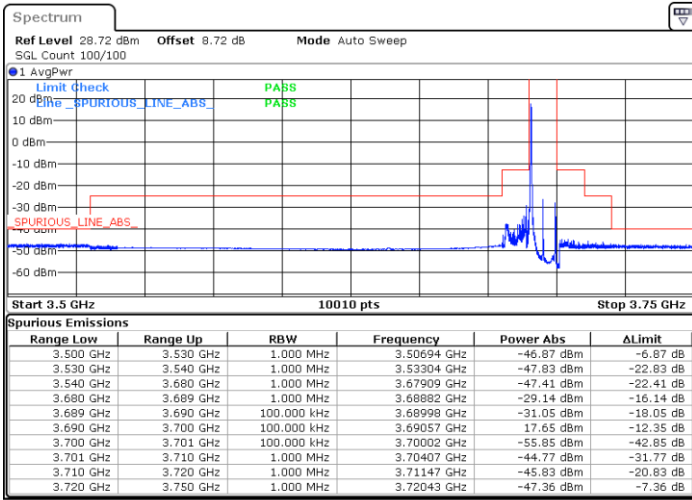


LTE Band 48 / 10MHz

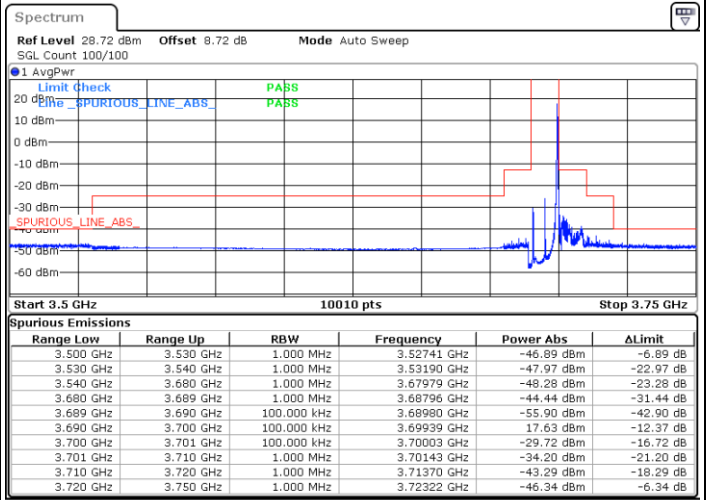
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



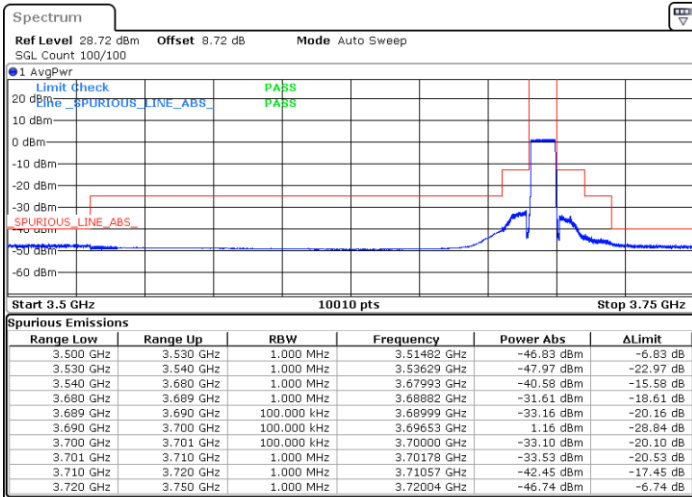
Date: 5.OCT.2022 04:05:15



Date: 5.OCT.2022 04:11:21

Highest Channel / FullIRB

N/A



Date: 5.OCT.2022 04:17:27

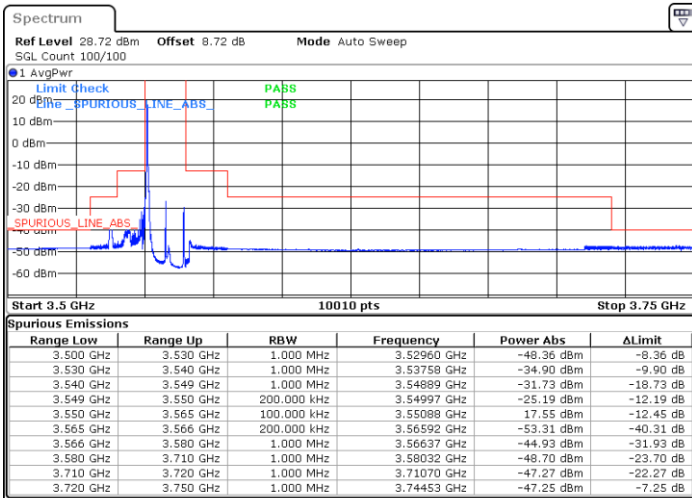


LTE Band 48 / 15MHz

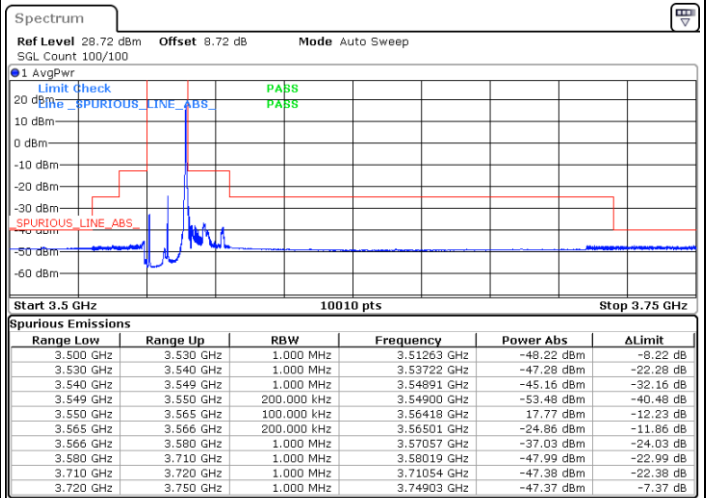
256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



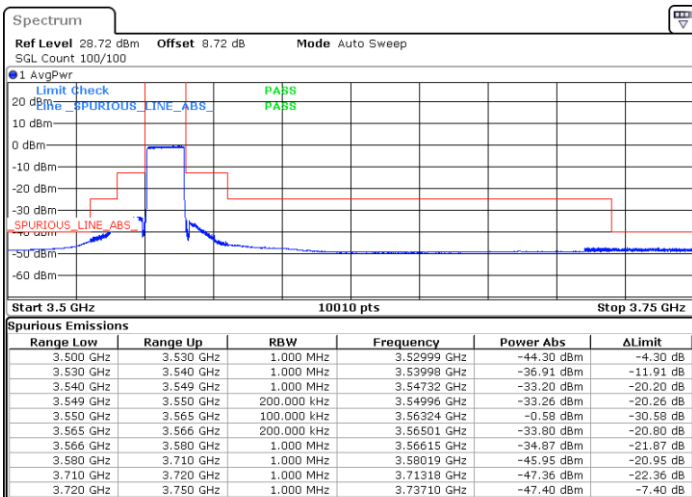
Date: 5.OCT.2022 04:32:33



Date: 5.OCT.2022 04:40:03

Lowest Channel / FullRB

N/A



Date: 5.OCT.2022 04:47:37

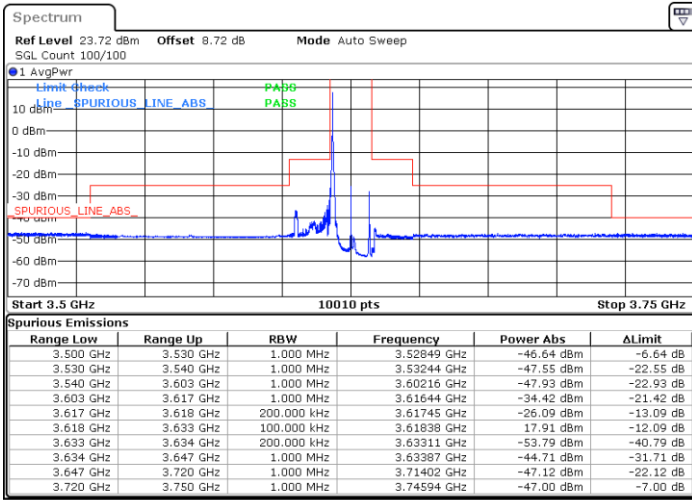


LTE Band 48 / 15MHz

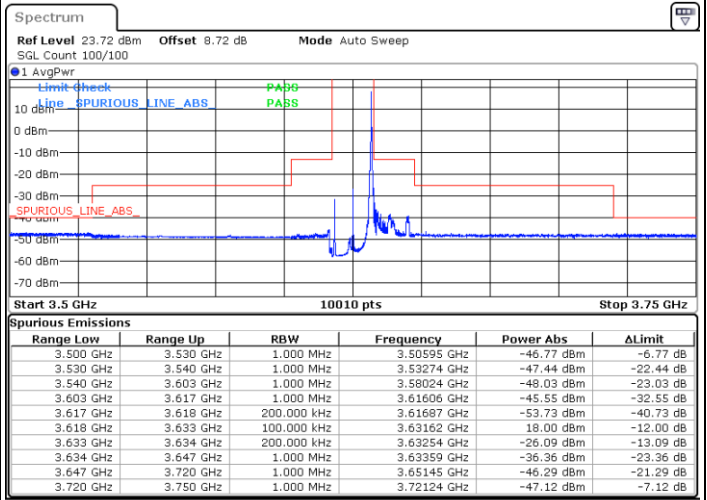
256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



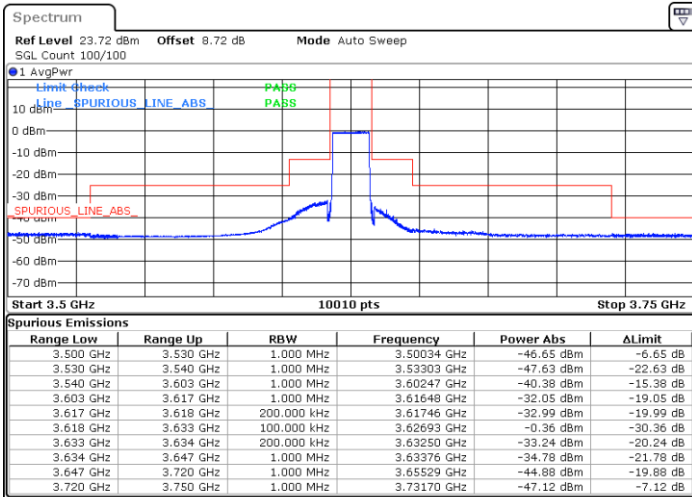
Date: 5.OCT.2022 04:56:18



Date: 5.OCT.2022 05:03:18

Middle Channel / FullIRB

N/A



Date: 5.OCT.2022 05:10:19

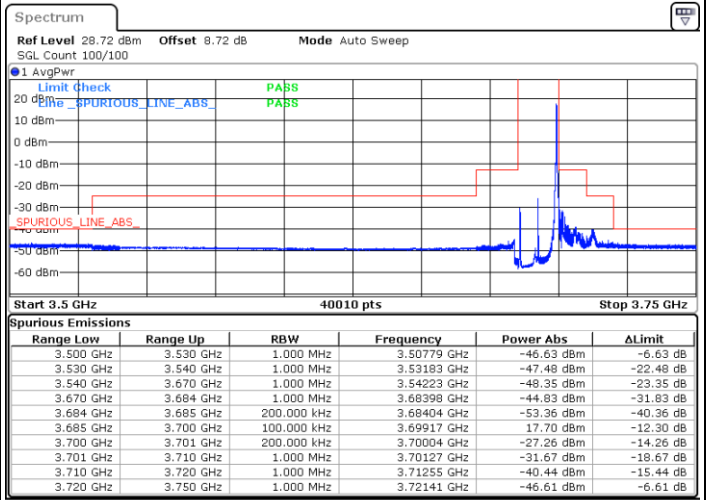
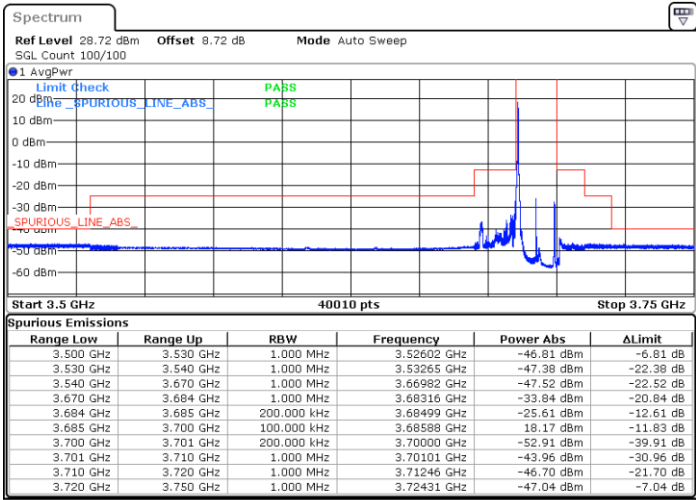


LTE Band 48 / 15MHz

256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

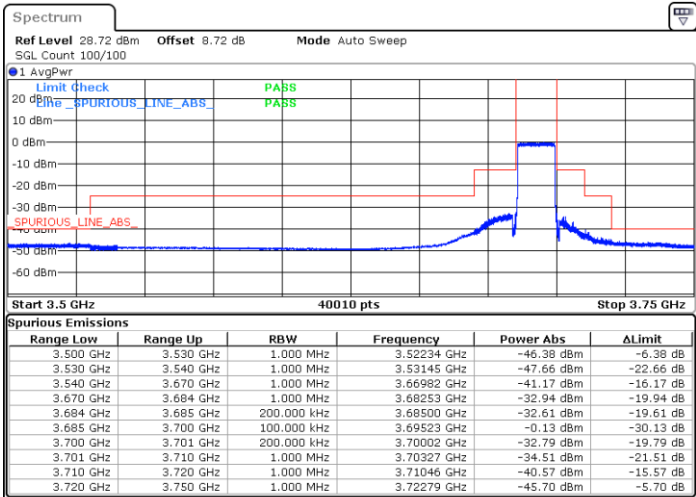


Date: 5.OCT.2022 05:17:22

Date: 5.OCT.2022 05:24:28

Highest Channel / FullIRB

N/A



Date: 5.OCT.2022 05:31:35

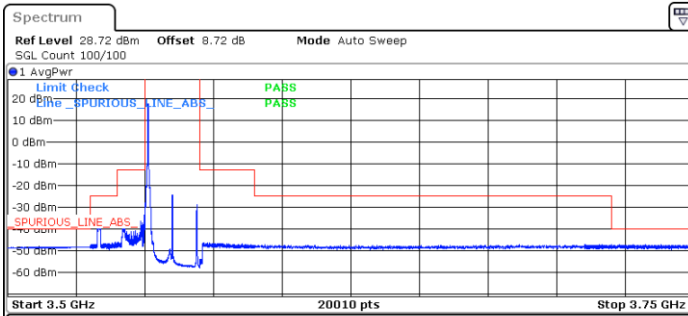


LTE Band 48 / 20MHz

256QAM

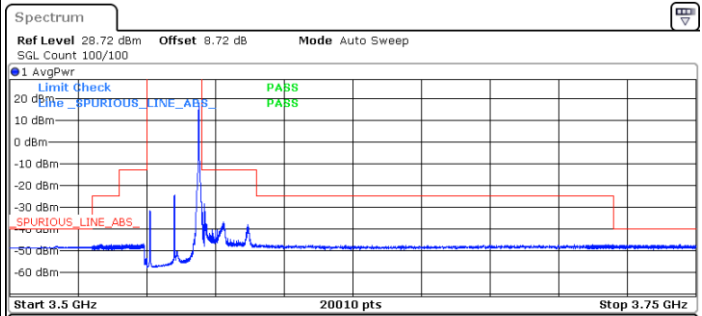
Lowest Channel / 1RB0

Lowest Channel / 1RBmax



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52996 GHz	-48.32 dBm	-8.32 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53315 GHz	-35.92 dBm	-10.92 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54844 GHz	-36.54 dBm	-23.54 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54999 GHz	-28.03 dBm	-15.03 dB
3.550 GHz	3.570 GHz	100.000 kHz	3.55110 GHz	17.70 dBm	-12.30 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.57006 GHz	-54.07 dBm	-41.07 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.57340 GHz	-46.34 dBm	-33.34 dB
3.590 GHz	3.710 GHz	1.000 MHz	3.68634 GHz	-47.36 dBm	-22.36 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71543 GHz	-47.27 dBm	-22.27 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73786 GHz	-47.22 dBm	-7.22 dB

Date: 5.OCT.2022 05:41:32

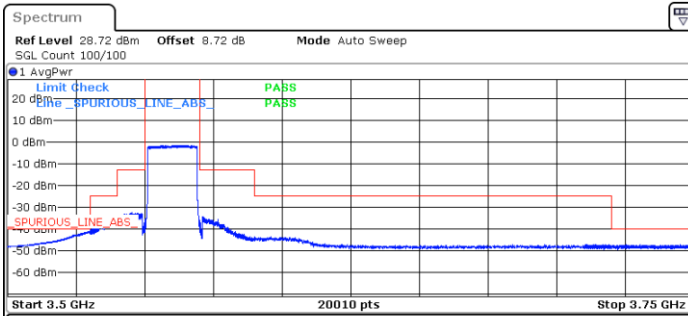


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51734 GHz	-48.13 dBm	-8.13 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53318 GHz	-47.19 dBm	-22.19 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54870 GHz	-46.90 dBm	-33.90 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54968 GHz	-53.65 dBm	-40.65 dB
3.550 GHz	3.570 GHz	100.000 kHz	3.56895 GHz	18.01 dBm	-11.99 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.57000 GHz	-28.83 dBm	-15.83 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.57101 GHz	-28.34 dBm	-15.34 dB
3.590 GHz	3.710 GHz	1.000 MHz	3.59003 GHz	-47.39 dBm	-22.39 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71808 GHz	-47.35 dBm	-22.35 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74431 GHz	-47.30 dBm	-7.30 dB

Date: 5.OCT.2022 05:48:39

Lowest Channel / FullIRB

N/A



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52960 GHz	-41.25 dBm	-1.25 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53958 GHz	-34.25 dBm	-9.25 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54513 GHz	-32.66 dBm	-19.66 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54996 GHz	-35.64 dBm	-22.64 dB
3.550 GHz	3.570 GHz	100.000 kHz	3.56295 GHz	-1.66 dBm	-31.66 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.57000 GHz	-36.14 dBm	-23.14 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.57102 GHz	-34.53 dBm	-21.53 dB
3.590 GHz	3.710 GHz	1.000 MHz	3.59003 GHz	-43.68 dBm	-18.68 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71119 GHz	-47.32 dBm	-22.32 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73037 GHz	-47.31 dBm	-7.31 dB

Date: 5.OCT.2022 05:55:46

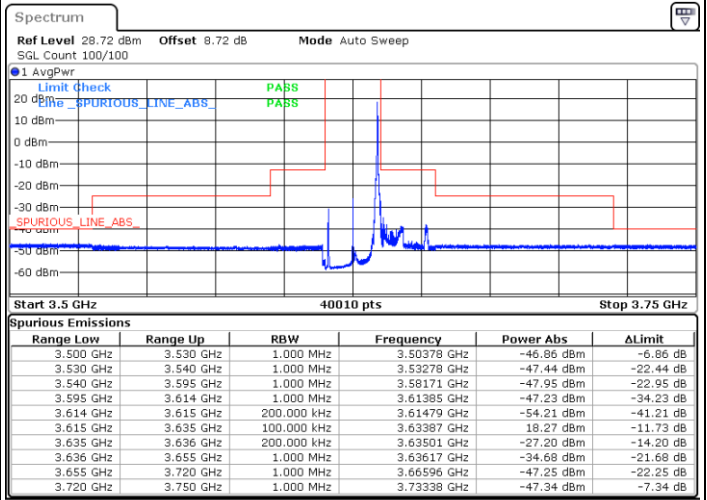
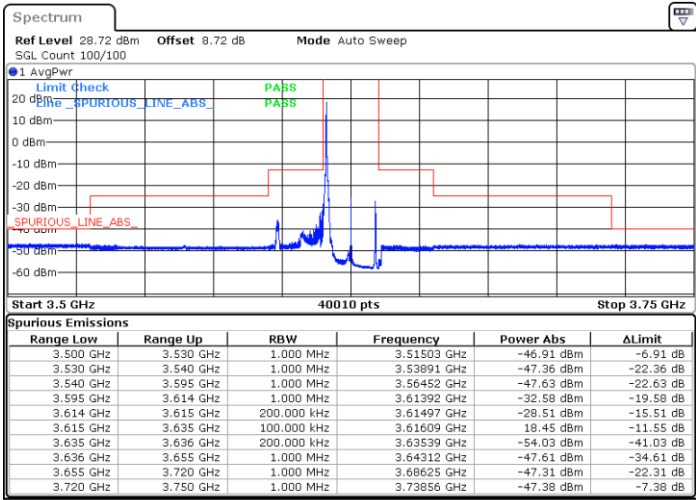


LTE Band 48 / 20MHz

256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

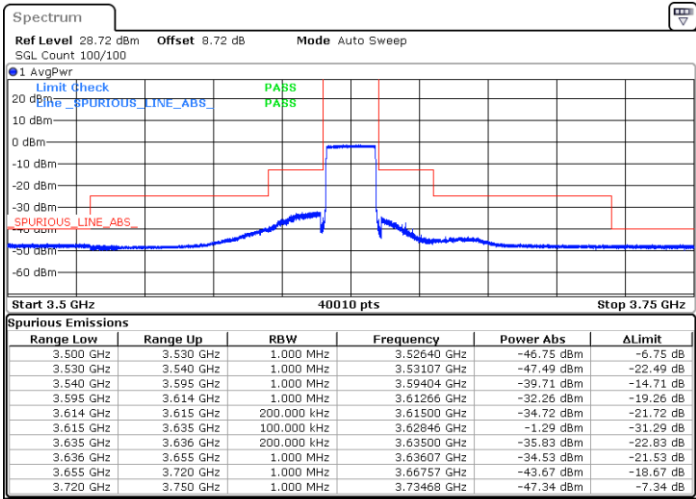


Date: 5.OCT.2022 06:04:27

Date: 5.OCT.2022 06:11:28

Middle Channel / FullIRB

N/A



Date: 5.OCT.2022 06:18:30

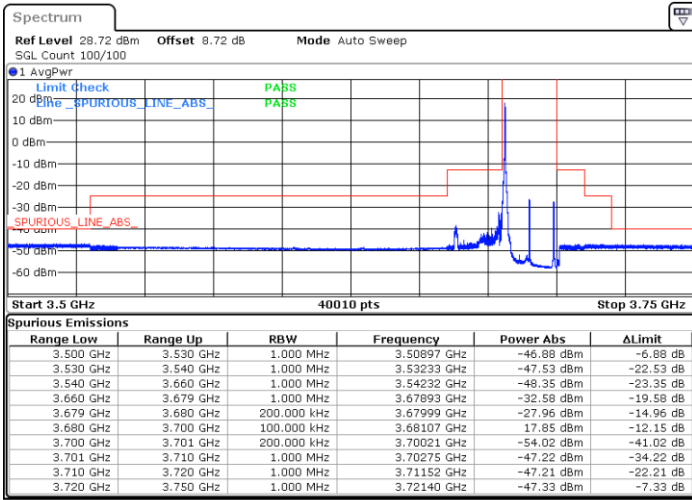


LTE Band 48 / 20MHz

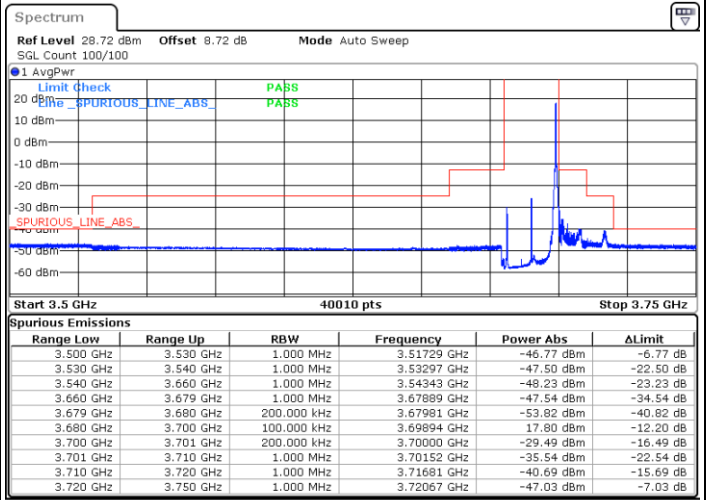
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



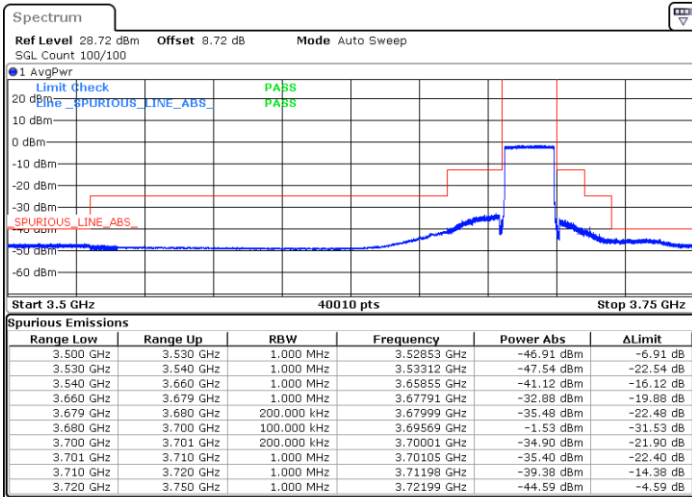
Date: 5.OCT.2022 06:25:33



Date: 5.OCT.2022 06:32:41

Highest Channel / FullIRB

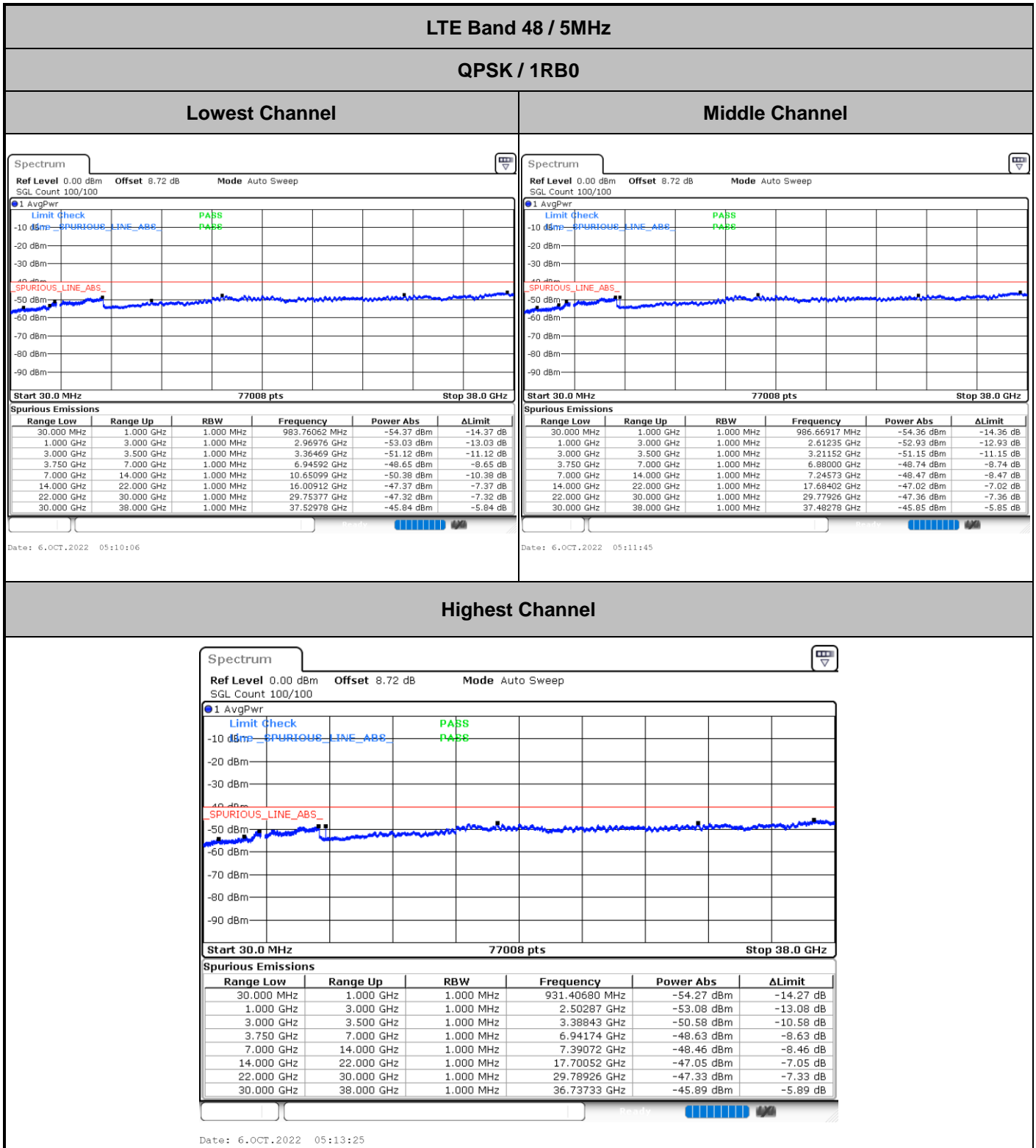
N/A



Date: 5.OCT.2022 06:39:49



Conducted Spurious Emission



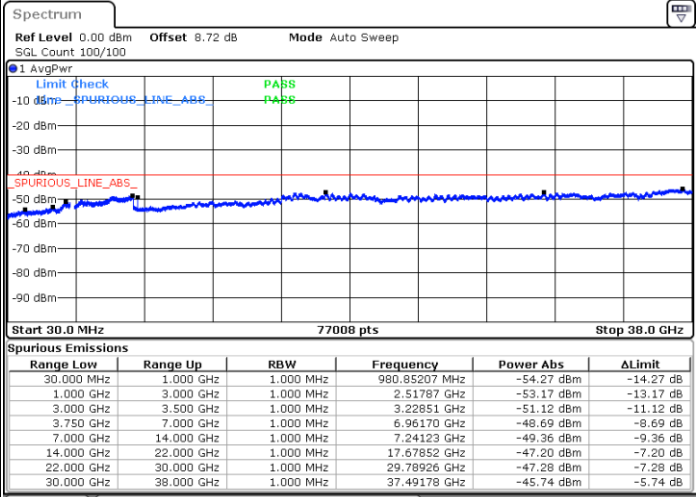
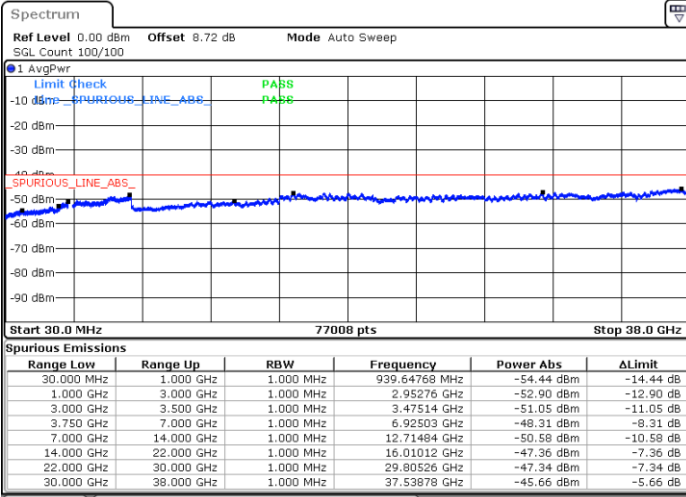


LTE Band 48 / 10MHz

QPSK / 1RB0

Lowest Channel

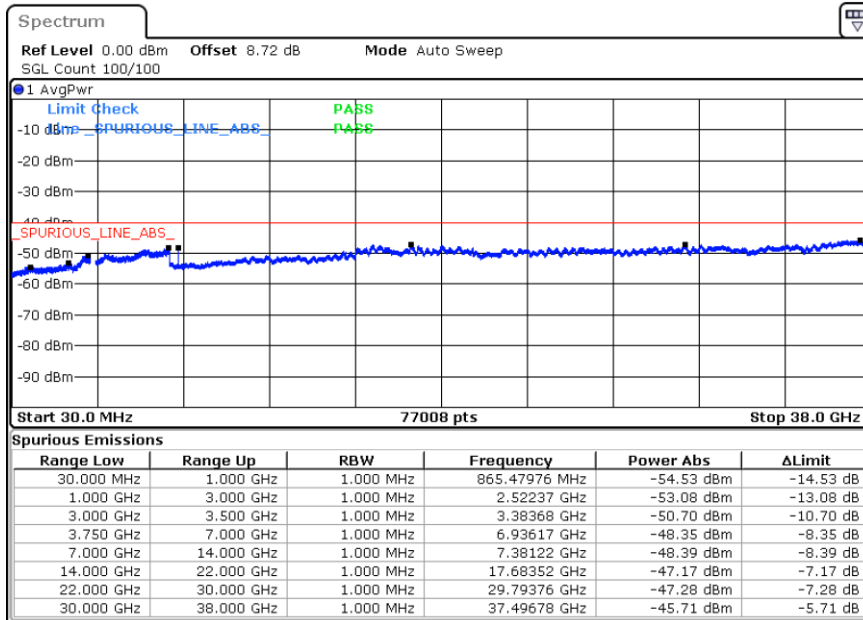
Middle Channel



Date: 6.OCT.2022 05:15:06

Date: 6.OCT.2022 05:16:46

Highest Channel



Date: 6.OCT.2022 05:18:25

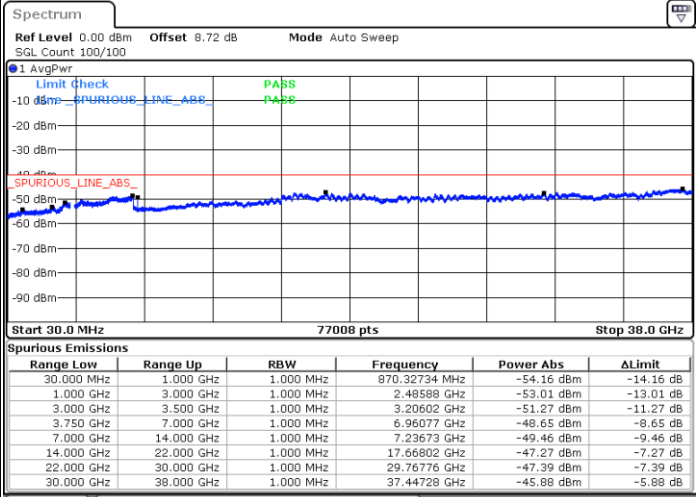
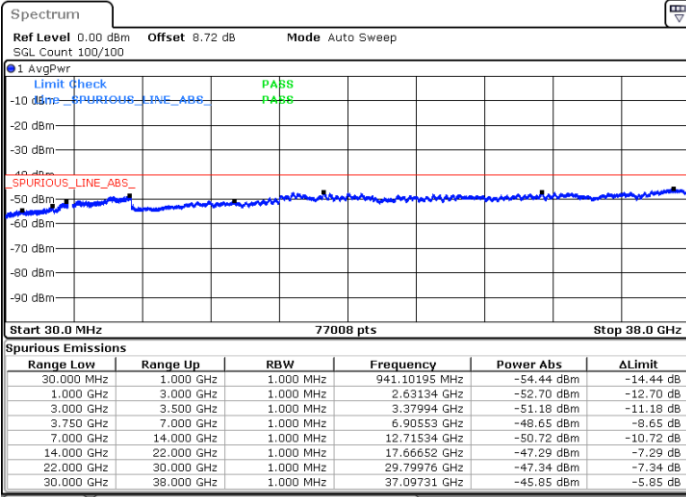


LTE Band 48 / 15MHz

QPSK / 1RB0

Lowest Channel

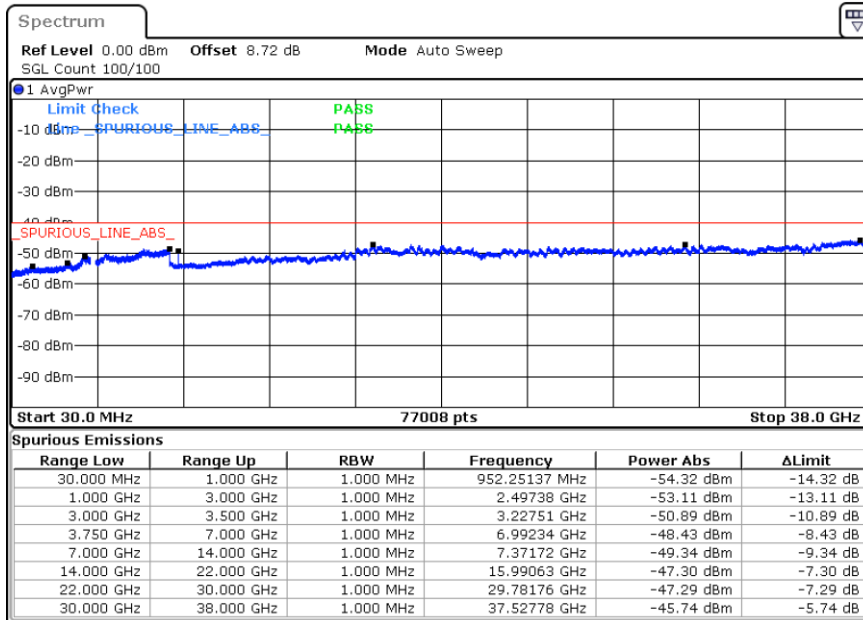
Middle Channel



Date: 6.OCT.2022 05:20:06

Date: 6.OCT.2022 05:21:45

Highest Channel



Date: 6.OCT.2022 05:23:25

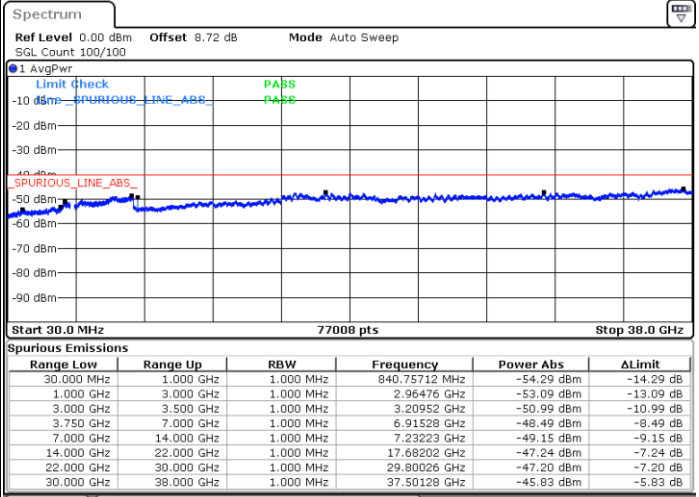
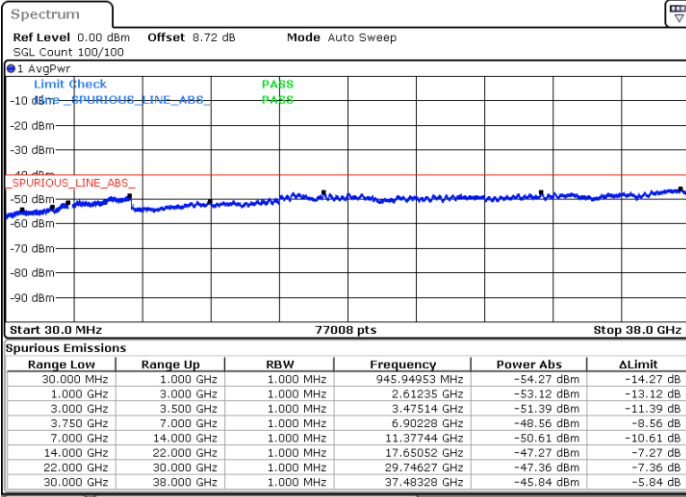


LTE Band 48 / 20MHz

QPSK / 1RB0

Lowest Channel

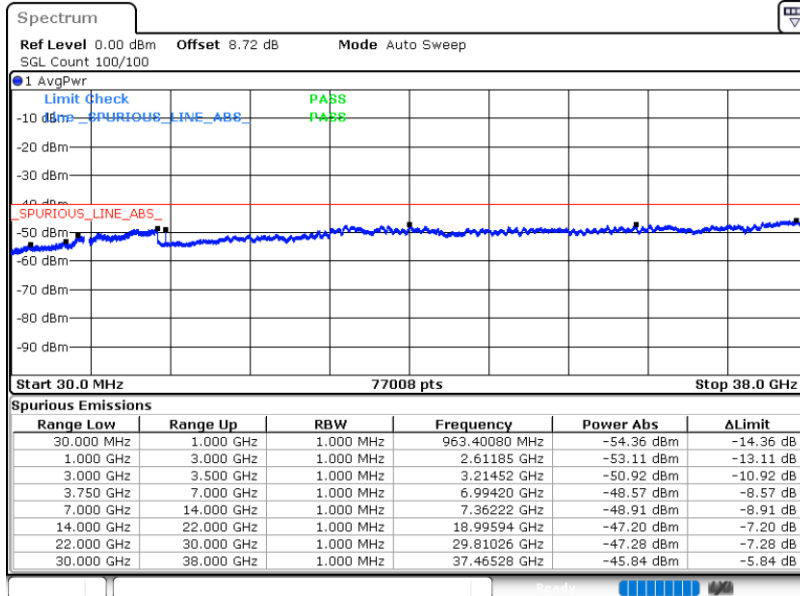
Middle Channel



Date: 6.OCT.2022 05:25:05

Date: 6.OCT.2022 05:26:45

Highest Channel



Date: 6.OCT.2022 05:28:25



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	0.0016	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0029	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0022	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 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 :	Carry Xu	Temperature :	23~25°C
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for all the supported antennas, choose the worst antenna perform final test and record in the report.

LTE Band 48 / 20MHz / QPSK								
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	7230	-59.73	-40	-19.73	-71.19	2.84	14.30	H
	10848	-43.40	-40	-3.40	-53.34	3.49	13.43	H
	14466	-54.94	-40	-14.94	-65.18	3.85	14.09	H
	7230	-54.08	-40	-14.08	-65.54	2.84	14.30	V
	10848	-44.70	-40	-4.70	-54.64	3.49	13.43	V
	14466	-55.92	-40	-15.92	-66.16	3.85	14.09	V

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