FCC PART 15, SUBPART B and SUBPART C
TEST REPORT

for

LIQUOR MONITOR NON OBSTRUCTIVE POUR

MODEL: LMNOP

Prepared for

LIQUOR MONITOR, LLC.
17252 ARMSTONG AVE, SUITE C
IRVINE, CA 92614

Prepared by:_____

JOEY MADLANGBAYAN

Approved by:_____

JOSH HANSEN

COMPATIBLE ELECTRONICS INC.
20621 Pascal Way
LAKE FOREST, CA 92630
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DATE: MAY 15, 2013

	REPORT BODY	APPENDICES					TOTAL
		A	***B***	***C***	***D***	***E***	
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1	Plot Map And Layout of 3 Meter Radiated Site

GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product endorsement by NVLAP, NIST or any other agency of the U.S. Government.

Device Tested:	Liquor Monitor Non Obstructive Pour Model: LMNOP
Product Description:	See Expository Statement
Modifications:	The EUT was not modified.
Manufacturer:	Liquor Monitor, LLC. 17252 Armstrong Ave. Suite C Irvine, CA 92614
Test Date:	May 1, & 10 2013
Test Specifications:	CFR Title 47, Part 15 Subpart B, Sections 15.109 CFR Title 47, Part 15 Subpart C, Sections 15.205, 15.209 and 15.231
Test Procedure:	ANSI C63.4:2009, ANSI C63.10: 2009
Test Deviations:	The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Radiated RF Emissions, 9kHz - 5000 MHz	Complies with the limits of CFR Title 47, Part 15, Subpart B, Section 15.109, Part 15, Subpart C, section 15.205, 15.209, 15.231(e)
2	-20 dB Occupied Bandwidth of the Emission	Complies with the limits of CFR Title 47, Part 15, Subpart C, section 15.231 (c).
3	Fundamental Radiated Field Strength	Complies with the limits of CFR Title 47, Part 15, Subpart C, section 15.231 (e).

1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Liquor Monitor Non Obstructive Pour Model: LMNOP. The EMI measurements were performed according to the measurement procedure described in ANSI C63.10. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the specification limits defined by CFR Title 47, Part 15, Part 15, Subpart B, section 15.109, Subpart C, sections 15.205, 15.209 and 15.231.

2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics 20621 Pascal Way Lake Forest, California 92630.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

Liquor Monitor

Melissa Holm Manufacturing Engineer

coAction Consulting

Larry G. Larson III Engineer/Business Development

Compatible Electronics, Inc.

Eugene Adams	Test Technician
Joey Madlangbayan	Test Engineer
Josh Hansen	Lab Manager

2.4 Date Test Sample was Received

The test sample was received on May 1 2013.

2.5 Disposition of the Test Sample

The sample remains at Compatible Electronics at the time of this report.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

RF	Radio Frequency
CLA	Cigar Lighter Adaptor
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network

3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
CFR Title 47, Part 15	FCC Rules – Radio frequency devices (including digital devices)
ANSI C63.4, 2009	Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz.
ANSI C63.10, 2009	American National Standard for Testing Unlicensed Wireless Devices

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description Of Test Configuration - EMI

Setup and operation of the equipment under test.

Specifics of the EUT and Peripherals Tested

The Liquor Monitor Non Obstructive Pour Model: LMNOP (EUT) was set up in a table top configuration. The EUT was explored in 3 orthogonal axes (X-axis, Y-axis and Z-axis).

The EUT was continuously transmitting throughout the tests.

The transmit antenna is a integrated trace on the PCB, which is contained inside the plastic housing.

The final data was taken in the worst case axis (Y-Axis) and mode described in the above configuration. Please see Appendix E for the data sheets.

4.1.1 Cable Construction and Termination

There were no interconnecting cables.

5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

EQUIPMENT	MANUFACTURER	MODEL NUMBER	PARTNUMBER	FCC ID
LIQUOR MONITOR NON OBSTRUCTIVE POUR (EUT)	LIQUOR MONITOR	LMNOP	1.6	**YENNOP0611**

5.2 EMI Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. DUE DATE
Computer	Compatible Electronics	s5250t	MXV94400D8	N/A	N/A
EMI Receiver	Rohde & Schwarz	ESIB40	100219	9/26/2012	9/26/2013
Antenna, Loop	Com Power	AL-130	17085	01/29/2013	01/29/2015
Antenna, CombiLog	Com Power	AC-220	003	05/25/2012	05/25/2013
Antenna, Horn 1-18GHz	Com Power	AH-118	071250	07/03/2012	07/03/2014
Pre-Amp, 1-18GHz	Com Power	PAM-118	443009	04/08/2013	04/08/2014
Mast, Antenna Positioner	Sunol Science Corporation	TWR 95-4	020808-3	N/A	N/A
Antenna Mast	Sunol Science Corporation	TWR 95-4	020808-3	N/A	N/A
Turntable	Sunol Science Corporation	FM 2001	N/A	N/A	N/A
Mast and Turntable Controller	Sunol Science Corporation	SC104V	020808-1	N/A	N/A

6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to section 2.1 and 7.1 of this report for EMI test location.

6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was placed in the center of the table, in accordance with ANSI C63.10: 2009. The test site receive antenna distance was measured from the closest periphery of the EUT setup.

The EUT was not grounded.

7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

7.1 RF Emissions

7.1.1 Conducted Emissions Test

(This test was not performed.)

Test Results:

The EUT does not connect to AC Mains; therefore this test was not performed.

7.1.2 Radiated Emissions (Spurious and Harmonics) Test

The EMI receiver was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the receiver records the highest measured reading over all the sweeps.

At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 were collected employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.109 were collected employing an average detector.

The measurement bandwidths and transducers used for the radiated emissions (Spurious) tests were:

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
9 kHz to 150 kHz	200 Hz	Active Loop Antenna
150 kHz to 30 MHz	9 kHz	Active Loop Antenna
30 MHz to 1 GHz	120 kHz	CombiLog Antenna
1 GHz to 5 GHz	1 MHz	Horn Antenna

The Semi-Anechoic test site of Compatible Electronics, Inc, was used for all tests. This test sites are set up according to ANSI C63.10. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Final data was collected in the worst case configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The loop antenna was also rotated in the horizontal and vertical axis in order to ensure accurate results.

7.1.3 Radiated Emissions (Spurious and Harmonics) Test (Continued)

The EUT was continuously transmitting during the test. The EUT was tested at a 3-meter test distance to obtain the final test data. The final qualification data sheets are located in Appendix E.

Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B section 15.109; and CFR Title 47, Part 15, Subpart C, sections 15.205, 15.209 and 15.231(e). There were no emissions found below 30MHz.

7.1.4 Peak radiated EMI

The EUT was tested at a 3-meter test distance to obtain the final test data. The final qualification data sheets are located in Appendix E.

Test Results:

The EUT complies with Part 15, Subpart C, section 15.231(e).

7.1.5 Bandwidth of the Fundamental

The -20 dB bandwidth was checked using the EMI Receiver to confirm that the bandwidth of the emission shall was not more than 0.25% of the center frequency. The RBW was set to 10 kHz and the VBW was set to 30 kHz. The final qualification data sheets are located in Appendix E.

Test Results:

The EUT complies with the requirements of CFR Title 47, Part 15, Subpart C, section 15.231(c) for the -20 dB bandwidth of the fundamental.

8. CONCLUSIONS

The Liquor Monitor Non Obstructive Pour Model: LMNOP meets all of the specification limits defined in CFR Title 47, Part 15, Subpart B section 15.109 for the digital portion; and the limits defined in Subpart C, sections 15.205, 15.209, and 15.231 for the transmitter portion.

APPENDIX A

LABORATORY RECOGNITIONS

LABORATORY RECOGNITIONS

Compatible Electronics has the following agency accreditations:

National Voluntary Laboratory Accreditation Program - Lab Code: 200527-0

Voluntary Control Council for Interference - Registration Numbers: A-0044

Bureau of Standards and Metrology Inspection - Reference Number: SL2-IN-E-1031

Conformity Assessment Body for the EMC Directive Under the US/EU MRA Appointed by NIST

Compatible Electronics is recognized or on file with the following agencies:

Industry Canada
Site Number: 2154C-1

APPENDIX B

MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.231 or FCC Class B specifications.

No modifications were made to the EUT.

APPENDIX C

ADDITIONAL MODELS COVERED UNDER THIS REPORT

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST — Liquor Monitor Non Obstructive Pour
Model: LMNOP
S/N: None

There were no additional models covered under this report.

APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS

FIGURE 1: RADIATED EMISSIONS 3-METER SEMI-ANECHOIC TEST CHAMBER

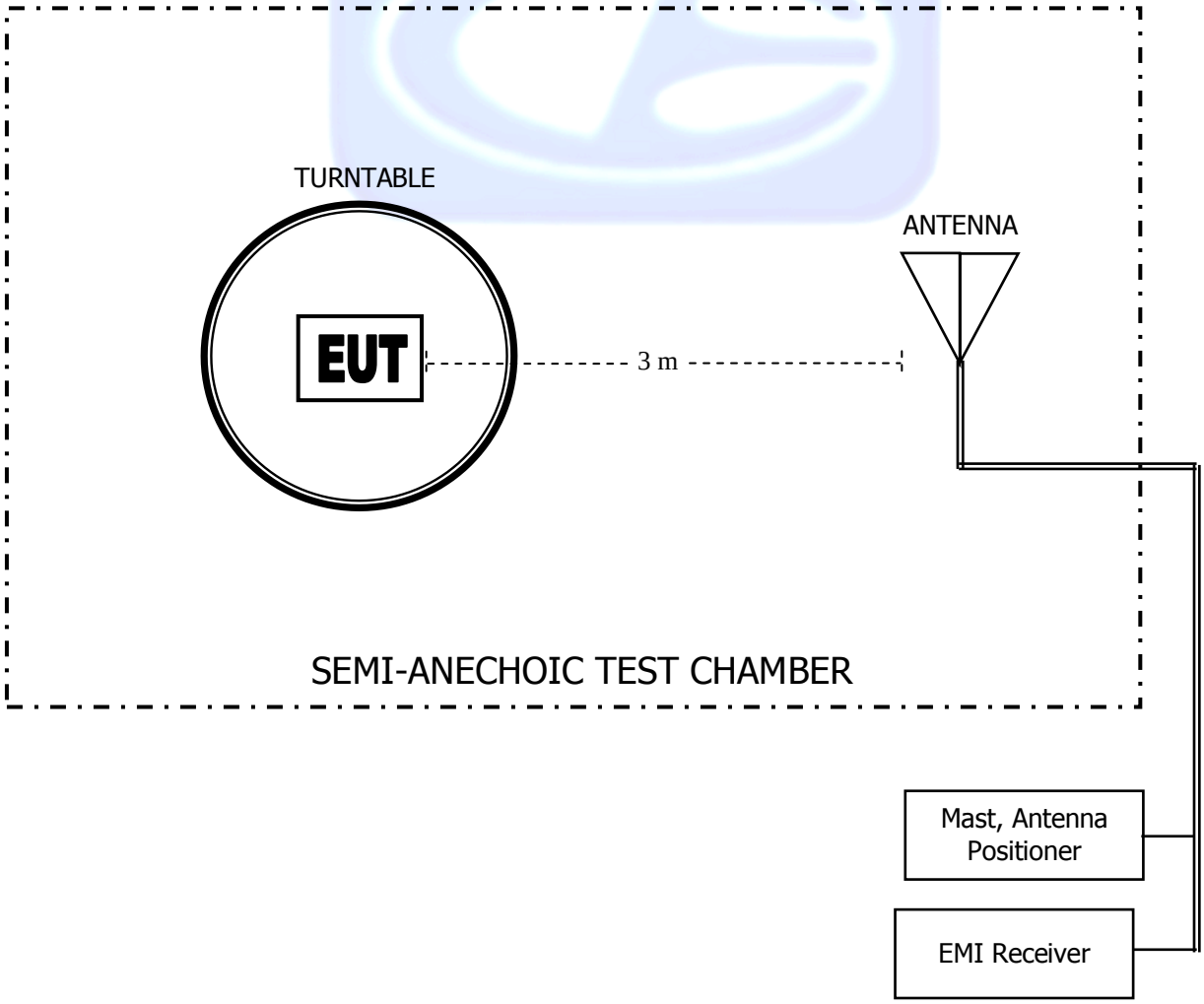
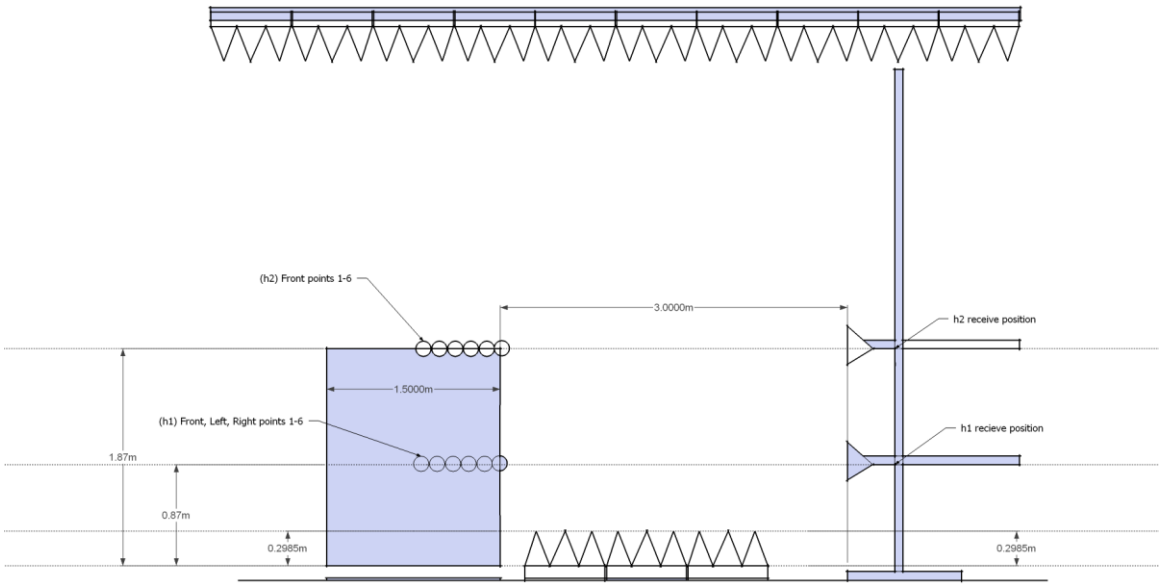


FIGURE 2: PLOT MAP & LAYOUT OF TEST SITE ABOVE 1 GHz



COM-POWER AL-130

LOOP ANTENNA

S/N: 17085

CALIBRATION DUE: JANUARY 29, 2015

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)	FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-40.70	10.80	**0.8**	-40.91	10.59
0.01	-40.50	11.00	**0.9**	-40.80	10.70
0.02	-40.70	10.80	**1.0**	-40.81	10.69
0.03	-40.10	11.40	**2.0**	-40.51	10.99
0.04	-40.50	11.00	**3.0**	-40.54	10.96
0.05	-41.10	10.40	**4.0**	-40.44	11.06
0.06	-41.00	10.50	**5.0**	-40.32	11.18
0.07	-41.10	10.40	**6.0**	-40.69	10.81
0.08	-41.10	10.40	**7.0**	-40.37	11.13
0.09	-41.20	10.30	**8.0**	-39.99	11.51
0.1	-41.20	10.30	**9.0**	-40.00	11.50
0.2	-41.40	10.10	**10.0**	-40.08	11.42
0.3	-41.30	10.20	**15.0**	-42.36	9.14
0.4	-41.20	10.30	**20.0**	-38.75	12.75
0.5	-41.40	10.10	**25.0**	-40.70	10.80
0.6	-41.40	10.10	**30.0**	-41.09	10.41
0.7	-41.20	10.30			

COM-POWER AC-220

LAB P - COMBILOG ANTENNA

S/N: 003

CALIBRATION DUE: MAY 25, 2013

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	19.2	**180**	9.2
35	19.3	**200**	9.3
40	20.0	**250**	12.1
45	17.8	**300**	14.2
50	17.8	**300**	13.8
60	13.2	**400**	15.0
70	7.9	**500**	17.5
80	6.9	**600**	17.9
90	8.1	**700**	20.7
100	8.1	**800**	20.3
120	9.6	**900**	21.3
140	9.7	**1000**	22.4
160	8.6		

COM-POWER AH-118

HORN ANTENNA

S/N: 071250

CALIBRATION DUE: JULY 3, 2014

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
1000	26.0	**9500**	40.7
1500	27.3	**10000**	41.0
2000	31.7	**10500**	41.5
2500	31.8	**11000**	42.2
3000	32.4	**11500**	42.1
3500	33.2	**12000**	42.4
4000	33.8	**12500**	41.6
4500	34.8	**13000**	43.7
5000	36.5	**13500**	44.3
5500	36.9	**14000**	43.2
6000	37.1	**14500**	42.8
6500	37.4	**15000**	44.7
7000	38.8	**15500**	44.5
7500	39.5	**16000**	43.4
8000	42.4	**16500**	43.5
8500	38.9	**17000**	46.0
9000	39.4	**17500**	48.0
		18000	49.0

COM-POWER PAM-118

1-18GHz - PREAMPLIFIER

S/N: 443009

CALIBRATION DUE: APRIL 08, 2014

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
500	29.9	**5500**	26.7
1000	27.8	**6000**	26.5
1100	28.0	**6500**	25.9
1200	27.9	**7000**	25.3
1300	29.1	**7500**	25.5
1400	27.8	**8000**	25.9
1500	28.4	**8500**	25.6
1600	29.0	**9000**	26.6
1700	27.9	**9500**	27.6
1800	28.6	**10000**	28.0
1900	28.0	**11000**	27.6
2000	28.1	**12000**	27.8
2500	28.7	**13000**	27.2
3000	28.6	**14000**	25.4
3500	28.0	**15000**	26.0
4000	27.8	**16000**	26.3
4500	27.4	**17000**	25.7
5000	27. 2	**18000**	25.2

VIEW 1
(Y-AXIS)

LIQUOR MONITOR
LIQUOR MONITOR NON OBSTRUCTIVE POUR
MODEL: LMNOP
FCC SUBPART B AND C – RADIATED SPURIOUS EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

VIEW 2
(Y-AXIS)

LIQUOR MONITOR
LIQUOR MONITOR NON OBSTRUCTIVE POUR
MODEL: LMNOP
FCC SUBPART B AND C – RADIATED SPURIOUS EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

APPENDIX E

DATA SHEETS

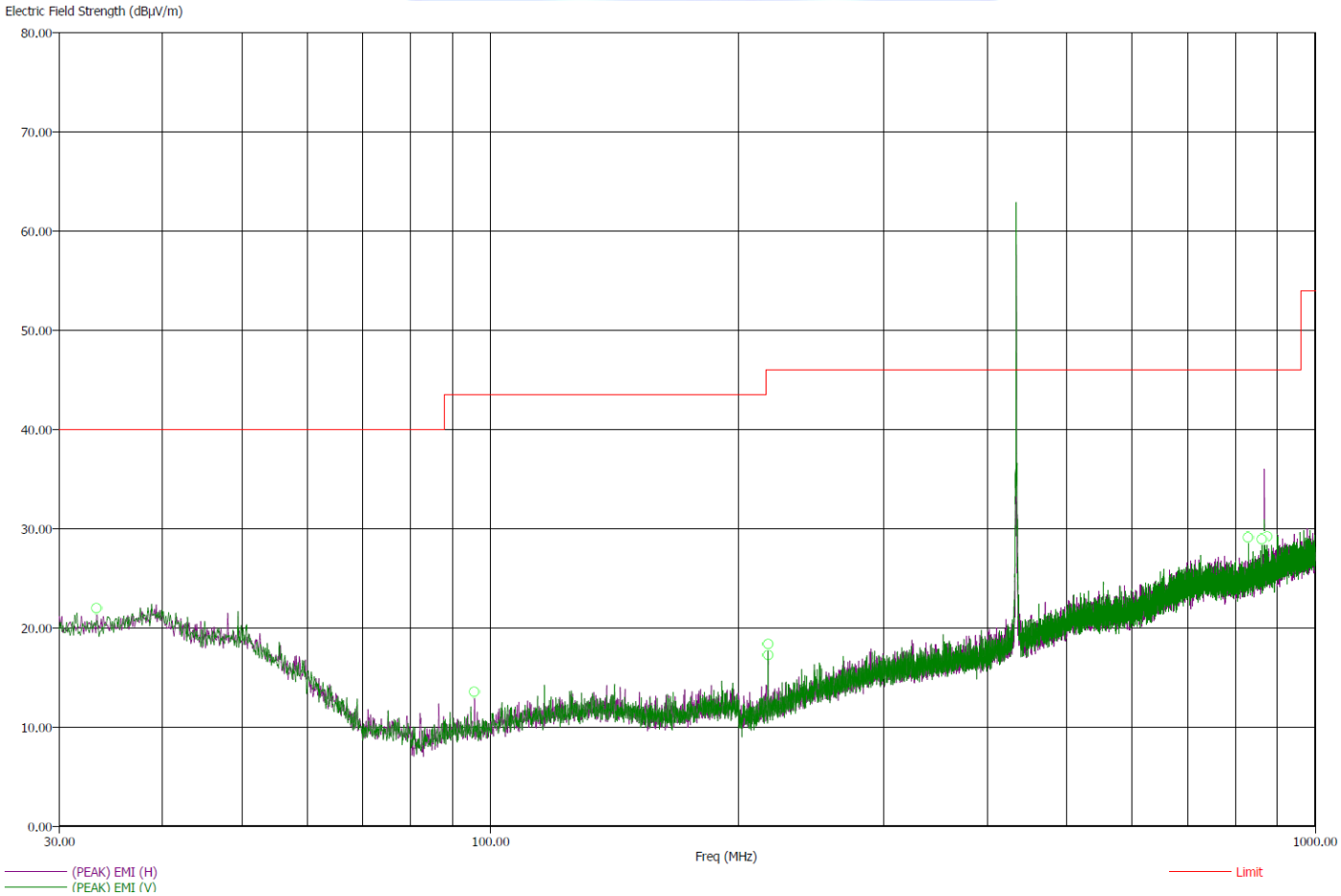
RADIATED EMISSIONS

SPURIOUS AND HARMONICS

DATA SHEETS

Title: FCC 15.231(e) 5/1/2013 1:47:30 PM
File: Radiated Pre-Scan 30-1000Mhz.set Sequence: Preliminary Scan
Operator: Eugene Adams
EUT Type: Liquor Monitor Non Obstructive Pour (M/N: LMNOP)
EUT Condition: Transmitting in Y-Axis
Comments:
Temp: 72f
Hum: 46%
Battery Powered

Compatible Electronics, Inc. FAC-3 (LAB P)



No spurious emissions found below 30 MHz and above 1 GHz

Title: FCC 15.231(e) 5/1/2013 2:09:24 PM
File: Radiated Final 30-1000Mhz.set Sequence: Final Measurements
Operator: Eugene Adams
EUT Type: Liquor Monitor Non Obstructive Pour (M/N: LMNOP)
EUT Condition: Transmitting in Y-Axis
Comments:
Temp: 72f
Hum: 46%
Battery Powered

Compatible Electronics, Inc. FAC-3 (LAB P)

Freq (MHz)	(QP)Margin (dB)	(QP)EMI (dBµV/m)	(PEAK)EMI (dBµV/m)	Limit (dBµV/m)	Pol	Ttbl Agl (deg)	Twr Ht (cm)	Transducer (dB)	Cable (dB)
33.30	-24.39	15.61	20.61	40.00	H	133.75	337.29	19.27	0.47
95.60	-37.61	5.91	12.19	43.52	H	251.75	220.29	8.10	0.83
217.00	-28.33	17.67	20.69	46.00	H	274.00	350.05	10.32	1.34
217.00	-28.78	17.22	20.21	46.00	V	12.50	227.00	10.32	1.34
830.10	-24.28	21.72	26.45	46.00	V	0.00	124.52	20.61	2.75
861.90	-23.71	22.29	27.88	46.00	V	176.75	358.47	20.93	2.84
874.50	-23.46	22.54	27.70	46.00	V	131.75	308.29	21.06	2.85

No spurious emissions found below 30 MHz and above 1 GHz

Harmonic Emissions

FCC 15.231

Company : Liquor Monitor
EUT: Liquor Monitor Non Obstructive Pour
Model: LMNOP
Duty Cycle Correction Factor: N/A

Date: 5/1/2013
Lab: P
Test ENG: Eugene Adams

Compatible Electronics, Inc. FAC-3 (Lab R)

Freq. (MHz)	Level (dBµV)	Pol (V/H)	Limit (dBµV)	Margin (dB)	Peak / QP / Avg	Ttbl Agl (deg)	Twr Ht (cm)	Comments
867.90	41.82	V	52.87	-11.05	Peak	91.5	193.82	
867.90	--	V	52.87	--	Avg			
1301.85	38.14	V	53.98	-15.84	Peak	134.00	233.94	
1301.85	--	V	53.98	--	Avg			
1735.79	48.81	V	53.98	-5.17	Peak	55.25	101.58	
1735.79	--	V	53.98	--	Avg			
2169.74	51.44	V	53.98	-2.54	Peak	74.00	100.05	
2169.74	--	V	53.98	--	Avg			
2603.69	47.22	V	53.98	-6.76	Peak	183.75	118.41	
2603.69	--	V	53.98	--	Avg			
3037.64	--	V	53.98	--	Peak			No Emissions Found
3037.64	--	V	53.98	--	Avg			
3471.59	--	V	53.98	--	Peak			No Emissions Found
3471.59	--	V	53.98	--	Avg			
3905.54	--	V	53.98	--	Peak			No Emissions Found
3905.54	--	V	53.98	--	Avg			
4339.49	--	V	53.98	--	Peak			No Emissions Found
4339.49	--	V	53.98	--	Avg			

Test distance
3 meter

Harmonic Emissions

FCC 15.231

Company: Liquor Monitor
EUT: Liquor Monitor Non Obstructive Pour
Model: LMNOP
Duty Cycle Correction Factor: N/A

Date: 5/1/2013
Lab: P
Test ENG: Eugene Adams

Compatible Electronics, Inc. FAC-3 (Lab R)

Freq. (MHz)	Level (dBuV)	Pol (V/H)	Limit (dBµV)	Margin (dB)	Peak / QP / Avg	Ttbl Agl (deg)	Twr Ht (cm)	Comments
867.90	43.66	H	52.87	-9.21	Peak	250.00	235.00	
867.90	--	H	52.87	--	Avg			
1301.85	40.85	H	53.98	-13.13	Peak	77.00	106.64	
1301.85	--	H	53.98	--	Avg			
1735.79	41.55	H	53.98	-12.43	Peak	327.00	100.00	
1735.79	--	H	53.98	--	Avg			
2169.74	43.37	H	53.98	-10.61	Peak	0.00	134.52	
2169.74	--	H	53.98	--	Avg			
2603.69	40.80	H	53.98	-13.18	Peak	0.00	307.82	
2603.69	--	H	53.98	--	Avg			
3037.64		H	53.98	--	Peak			No Emissions Found
3037.64		H	53.98	--	Avg			
3471.59		H	53.98	--	Peak			No Emissions Found
3471.59		H	53.98	--	Avg			
3905.54		H	53.98	--	Peak			No Emissions Found
3905.54		H	53.98	--	Avg			
4339.49		H	53.98	--	Peak			No Emissions Found
4339.49		H	53.98	--	Avg			

Test distance
3 meter

-20 dB BANDWIDTH
OCCUPIED BANDWIDTH

DATA SHEETS

OCCUPIED BANDWIDTH

FCC 15.231(c)

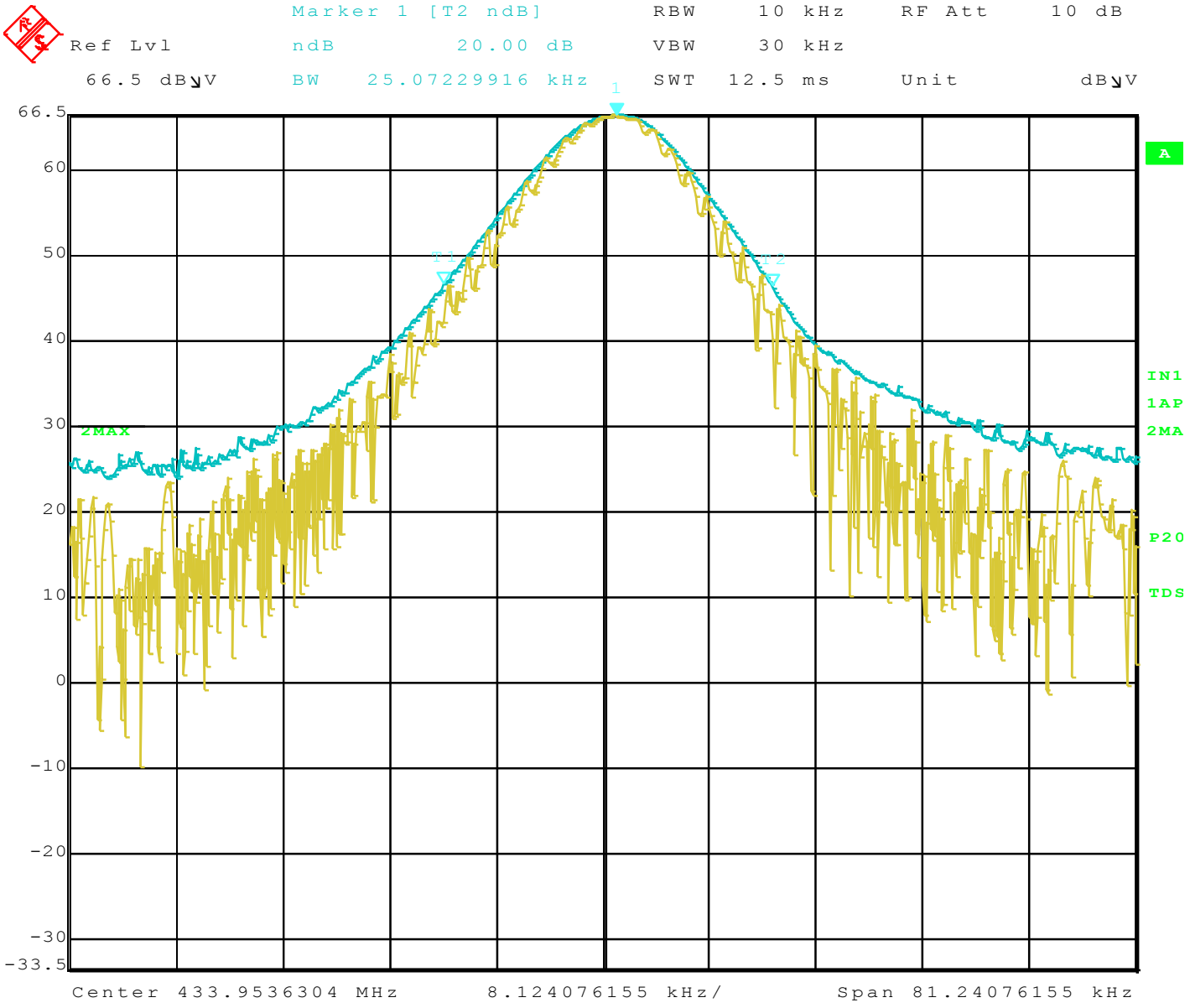
Company: Liquor Monitor — Date: 5/1/2013
EUT: Liquor Monitor Non Obstructive Pour — Lab: P
Model: LMNOP — Test ENG: Eugene Adams
Duty Cycle Correction Factor: N/A

Compatible Electronics, Inc. FAC-3 (Lab P)

FCC 20dB Occupied Bandwidth

Freq. (MHz)	Measured BW (kHz)	Pol (v/h)	Limit (kHz)	Margin (kHz)	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
433.9486	25.0729	--	1084.87	-1059.797	Peak	--	--	

-20 dB Occupied Bandwidth Plot



Title: Liquor monitor non obstructive pour (LMNOP)
Comment A: OBW
Date: 1.MAY.2013 22:30:27

RADIATED FUNDAMENTAL EMISSIONS

DATA SHEETS

RADIATED FUNDAMENTAL EMISSIONS

FCC 15.231(e)

Company: Liquor Monitor
EUT: Liquor Monitor Non Obstructive Pour
Model: LMNOP
Duty Cycle Correction Factor: N/A

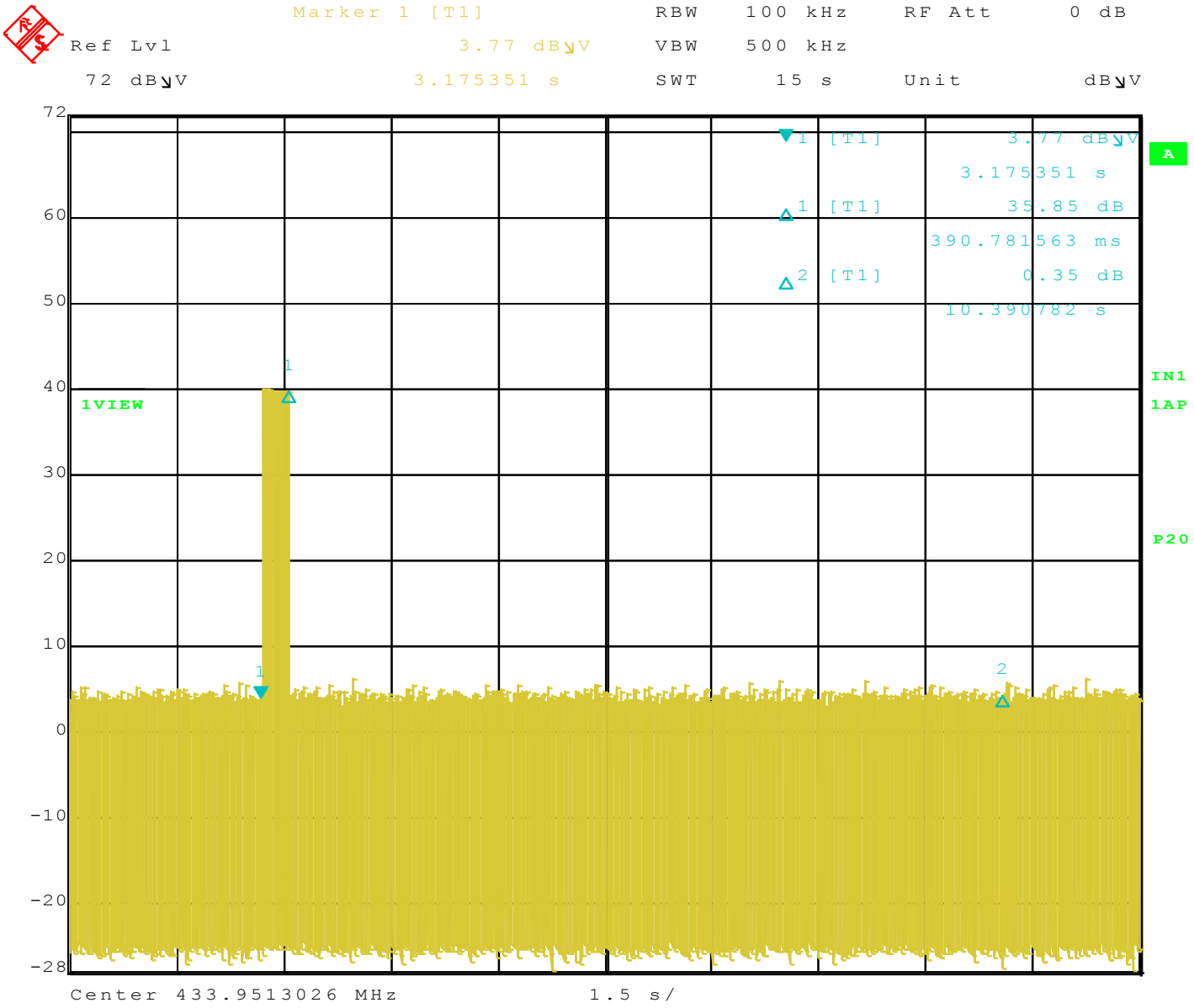
Date: 5/1/2013
Lab: P
Test ENG: Eugene Adams

Compatible Electronics, Inc. FAC-3 (Lab P)

Freq. (MHz)	Level (dBµV)	Pol (v/h)	Limit (dBµV)	Margin (dB)	Peak / QP / Avg	Ant. Height (cm)	Table Angle (deg)	Comments
X-Axis								
433.9486	59.09	H	72.87	-13.780	Peak	210.70	171.50	
433.9486	--	H	--	--	AVG			
433.9486	46.05	V	72.87	-26.820	Peak	176.11	52.75	
433.9486	--	V	--	--	AVG			
Y-Axis								
433.9486	59.90	H	72.87	-12.970	Peak	400.00	242.00	
433.9486	--	H	--	--	AVG			
433.9486	67.24	V	72.87	-5.630	Peak	132.64	5.75	
433.9486	--	V	--	--	AVG			
Z-Axis								
433.9486	56.39	H	72.87	-16.480	Peak	100.00	152.00	
433.9486	--	H	--	--	AVG			
433.9486	60.52	V	72.87	-12.350	Peak	125.82	78.00	
433.9486	--	V	--	--	AVG			

Test distance
3 meter

Pulse Duration



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