

**ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

*FCC PART 15.247, SUBPART C
IC RSS-247
TEST REPORT**for**the*

Brewer

Model: OSMA

Prepared for

OSMOSA, INC.
1478A CHURCH STREET
SAN FRANCISCO, CA, 94131Prepared by: 
Andreas DavidssonApproved by: 
Kevin BothmannElectro Magnetic Test, Inc.
1547 Plymouth Street
Mountain View, California 94043
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Date: October 1, 2020

	REPORT BODY	APPENDICES				TOTAL
		A	B	C	D	
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REVISION HISTORY

REVISION	DATE	COMMENTS	MODIFIED BY
1.0	October 1, 2020	Original Document	-
1.1	October 12, 2020	Updated IC test site ID.	Andreas Davidsson



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GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Electro Magnetic Test, Inc., which is an independent testing and consulting firm. The test report is based on testing performed Electro Magnetic Test, Inc. personnel according to the measurement procedure described in the test specification 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 in any form unless done so in full.

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

The measurement data and conclusions contained in this test report are deemed satisfactory evidence of compliance with Industry Canada Interference-Causing Equipment Standard ICES-003, Issue 6, January 2016.

Electro Magnetic Test, Inc. is recognized by the following agencies for performing EMI/EMC testing:

COUNTRY	AGENCY	IDENTIFYING #
USA	Federal Communications Commission (FCC) (EMT's test site is recognized by the FCC)	Registration Number: 90576
USA, Canada, Taiwan, Australia/New Zealand, European Community	National Voluntary Lab Accreditation Program (NVLAP) (EMT is accredited by NVLAP. A copy of the NVLAP Scope Of Accreditation is available upon request.)	Lab Code: 200147-0
Canada	Industry Canada	File No.: IC 2804A
Japan	Voluntary Control Council For Interference (VCCI)	A-0118
	Open Field Test Site "A"	-
	Mains Conducted Emissions Test Site "D"	-
	Telecom Conducted Emissions Test Site "D"	-
	3 Meter Semi-Anechoic Chamber Site "E"	-
	3 Meter Semi-Anechoic Chamber Site "E" (1GHz – 6GHz)	-
	Mains Conducted Emissions Test Site "E"	-
	Telecom Conducted Emissions Test Site "E"	-
Korea	Ministry of Information and Communication's Radio Research Laboratory (RRL) under the Asia Pacific Economic Cooperation (APEC) Mutual Recognition Arrangement (A copy of the Scope Of Accreditation is available upon request)	US0036
Taiwan	Bureau Of Standards, Metrology and Inspection (BSMI)	Reference Number: SL2-IN-E-1024
Australia / New Zealand	Australian Communications Authority (AUSTEL)	*

*These agencies do not issue an identifying number to test labs.



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GENERAL REPORT SUMMARY (CONTINUED)

Device Tested: Brewer
 Model: OSMA
 S/N: 00001

Product Description: Portable beverage brewing appliance. There are two modes of operation: 1) stand-by and 2) brewing. 1) Stand-by is a default mode. 2) Brewing mode is entered after the water being loaded into the cup and a controlled button is depressed, initializing the brewing cycle. Brewing cycle is limited in time (default value is 2 minutes) after which unit is entering a cool-down time period (default value 2 minutes)

Modifications: The EUT was not modified during the testing.

Manufacturer: OSMOSA, INC.
 1478A CHURCH STREET
 SAN FRANCISCO, CA, 94131

Test Date(s): September 11, 30, 2020

Test Specifications: EMI requirements
 Limits: CISPR 22: 1997 plus A1:2000 & A2:2002 Class B
 FCC Title 47, Part 15 Subpart B, Class B
 Test Procedure: ANSI C63.4: 2014

Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	FCC STANDARD	IC STANDARD	RESULTS
7.1	Emissions in Restricted and Non-Restricted Bands	15.209, 15.247, 15.247(d)	RSS-GEN Issue 5, [8.9] RSS 247 Issue 2, [5.5]:	PASS
7.2	Conducted Emissions	15.207(a)	RSS-GEN Issue 5 [8.8]	N/A This device is battery operated
7.3	Occupied Bandwidth	15.247(a)(2)	RSS 247 Issue 2, [5.2.1, 6.2.4.1]	PASS
7.4	Maximum Peak Output Power	15.247 (b)	RSS 247 Issue 2, [5.4.4]	PASS
7.5	Maximum Peak Power Spectral Density	15.247(e)	RSS 247 Issue 2, [5.2.2]	PASS
7.6	Antenna Requirement	15.203,15.247(b)(4))	N/A	PASS


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TECHNICAL DESCRIPTION OF THE EUT

Manufacturer:		OSMOSA, INC.					
Manufacturer Address:		1478A CHURCH STREET					
EUT Name:		Brewer					
Model No:		Model: OSMA					
Operation frequency:		2402 MHz to 2480 MHz					
Channel Number:		40					
Modulation Technology:		DSSS					
Antenna Type:		PCB Antenna					
Antenna Gain:		2.04 dBi					
Maximum Output Power:		2.508 dBm					
Description of Channel:							
Bluetooth LE							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

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1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Brewer Model: OSMA. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 2014. 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 in FCC Title 47, Part 15, Subpart C and IC RSS 247, Issue 2.

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2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Electro Magnetic Test, Inc., 1547 Plymouth Street, Mountain View, California, 94043.

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 measurement results in this report and the calibration of the test equipment are traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

OSMOSA, INC.

Dmitry Gorin Director Of Engineering

Electro Magnetic Test, Inc.

Andreas Davidsson	Test Technician
Chinmay Shendurnikar	Test Technician
David Vivanco	Test Technician
Simeet Gandhi	Test Technician
Manan Modi	Test Technician
Kevin Bothmann	Lab Manager

2.4 Date Test Sample was Received

The test sample was received on September 11, 2020

2.5 Disposition of the Test Sample

The test sample has not yet been returned to OSMOSA, INC.

2.6 Abbreviations and Acronyms

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

RF	Radio Frequency
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
CISPR	International Special Committee On Radio Interference
FCC	Federal Communications Commission

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3. APPLICABLE DOCUMENTS

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

SPEC	TITLE
RSS-Gen Issue 5, April 2018	General Requirements for Compliance of Radio Apparatus
RSS 247, Issue 2, February 2017	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
FCC Title 47, Part 15, Subpart C	FCC Rules - Radio frequency devices (including digital devices).
FCC Publication KDB558074	Guidance for compliance measurements on digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the fcc rules, August 24, 2018
ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

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4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration - EMI

During testing the Bluetooth radio was continuously transmitting and the Brewer was testing in its worst case orientation.

The EUT was tested in three physical configurations across all modes, flat, vertical with antenna facing upwards, and vertical with antenna facing downwards. The flat orientation in flight mode was found to have the highest intentional and unintentional emissions.

It was determined that the emissions were at their highest level when the EUT was operating in the above configuration. The cables were moved to maximize the emissions. The final conducted as well as radiated data was taken in this mode of operation. All initial investigations were performed with the EMI receiver in manual mode scanning the frequency range continuously.



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4.1.1

Cable Construction and Termination

The EUT did not have any cables connected to it during testing.

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5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

EQUIPMENT TYPE	MANUFACTURER	MODEL	SERIAL NUMBER	FCC ID
Brewer (EUT)	OSMOSA, INC.	OSMA	00001	N/A
THE FOLLOWING WERE LOCATED OUTSIDE THE TEST SITE:				
Remote Computer	DELL	DCIR	670MBG1	DOC
Remote Keyboard	DELL	KBAR211	803823-001	DOC
Remote Mouse	HP	DX-WMSE2	10K10A000979	DOC
Remote Monitor	DYNEX	E178FPb	CN-06248H-74261-8BB-065S	DOC


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5.2 EMI Test Equipment

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. CYCLE
EMI Receiver	Rohde & Schwarz	ESU40	100127	February 22, 2020	1 Year
EMI Test Software	Rohde & Schwarz	EMC32	V8.54.0	N/A	N/A
Transient Limiter	Com Power	LIT-153A	531175	December 18, 2019	1 Year
BiConiLog Antenna	ETS-Lindgren	3143B	00206757	September 27, 2019	1 Year
Horn Antenna	ETS-Lindgren	3117	00109294	September 27, 2019	1 Year
Preamplifier	Rohde & Schwarz	TS-PR18	100056	December 19, 2019	1 Year
Antenna Mast	ETS-Lindgren	2171B	00150364	N/A	N/A
Turntable	ETS-Lindgren	2187-3.0	00118231	N/A	N/A
Computer	Dell, Inc.	D13M	4T50WC1	N/A	N/A
Computer	Dell, Inc.	Precision Tower 3620	GPQCDH2	N/A	N/A
Multi-Function Controller	ETS-Lindgren	2090	00102270	N/A	N/A
EMI Receiver (Conducted EMI)	Rohde & Schwarz	ESU40	100295	February 22, 2020	1 Year
Conducted EMI Software	ETS-Lindgren	TILE !	Rev. 7.2.10.12	N/A	N/A
LISN	Solar Electronics	Type 21107-50-TS-50-N	21107150701	June 24, 2020	1 Year
LISN	Solar Electronics	Type 21107-50-TS-50-N	21107150702	June 24, 2020	1 Year
LISN	Solar Electronics	Type 21107-50-TS-50-N	21107150703	June 24, 2020	1 Year
LISN	Solar Electronics	Type 21107-50-TS-50-N	21107150704	June 24, 2020	1 Year

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6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to the table below and section 7.1 of this report for the details of which sites were used for testing. All sites are located at 1547 Plymouth Street, Mountain View, California 94043.

Site Used For Test	Site Description
	Open Field Test Site "A"
	Mains Conducted Emissions Test Site "D"
	Telecom Conducted Emissions Test Site "D"
X	3 Meter Semi-Anechoic Chamber Site "E"
	Mains Conducted Emissions Test Site "E"
	Telecom Conducted Emissions Test Site "E"

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 for all tests not including radiated measurements above 1GHz.

For radiated measurements above 1GHz the EUT was mounted on a 0.7 meter non-conductive hollow cube that was placed on a 1.0 by 1.5 meter table 0.8 meters above the ground plane with a total height of 1.5 meters.

The EUT was not grounded.

6.3 Facility Environmental Characteristics

All tests were performed in a climate controlled building. The temperature was 24° C, humidity 45%, and barometric pressure 101.6 kPa.


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7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests.

7.1 Emissions in Restricted and Non-Restricted Bands

7.1.1 General Requirements Limit (FCC PART 15 Section 15.209(a)(1), IC-RSS-GEN Issue 5, [8.9])

Frequency of Emission (MHz)	Field Strength		Measurement Distance (Meters)
	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	
0.009-0.49	2400/F(kHz)		300
0.49-1.705	24000/F(kHz)		30
1.705-30	30		30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

7.1.2 Emissions in Restricted and Non-Restricted Bands Limit (FCC PART 15 Section 15.247(d), IC RSS-GEN Issue 5, [8.10], IC-RSS 247 Issue 1, [5.5])

Emissions in Restricted and Non-Restricted Bands FCC PART 15 Section 15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).


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7.1.2
Emissions in Restricted and Non-Restricted Bands Limit (FCC PART 15 Section 15.247(d), IC-RSS-GEN Issue 5, [8.10], IC-RSS 247 Issue 1, [5.5]) (Continued)
Emissions in Restricted Bands IC-RSS-GEN Issue 5, [8.10]:

Restricted bands, identified in Table 6, are designated primarily for safety-of-life services (distress calling and certain aeronautical bands), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following restrictions apply:

- (a) Fundamental components of modulation of licence-exempt radio apparatus shall not fall within the restricted bands of Table 6 except for apparatus complying under RSS-287
- (b) Unwanted emissions that fall into restricted bands of Table 6 shall comply with the limits specified in RSS-Gen; and
- (c) Unwanted emissions that do not fall within the restricted frequency bands of Table 6 shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.

Limit (For Restricted Bands)
See General Limits Requirement In Above Chart (Section 7.1.1)

Emissions in Non-Restricted Bands IC-RSS 247 Issue 1, [5.5]:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

Limit (For Non Restricted Bands)
20db Below Peak Power Spectral Density
30db Below Average Power Spectral Density

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7.1.3 Test Procedure (Radiated)

The Rohde & Schwarz ESU40 EMI receiver was used as a measuring meter while under software control by the Rohde & Schwarz EMC32 software. To increase the sensitivity of the instrument, the built in preamplifier was used from 9 KHz to 1 GHz and an external preamplifier was used from 1 GHz to 26.5 GHz. The EMI receiver was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the EMI receiver records the highest measured reading over all the sweeps. The built in quasi-peak or average detector was used only for those readings which are marked accordingly on the data sheets. The effective measurement bandwidth used for the radiated emissions test was 100 kHz from 9 kHz to 26.5 GHz.

The Loop Antenna, Broadband BiConiLog and horn antennas were used as transducers during the measurement. The Loop antenna was used from 9 KHz to 30 MHz, the BiConiLog antenna was used from 30 MHz to 1000 MHz and horn antennas were used from 1GHz – 26.5 GHz. The frequency spans were wide (9 kHz to 150 kHz, 150 kHz to 30 MHz, 30 MHz to 88 MHz, 88 MHz to 216 MHz, 216 to 300 MHz, 300 MHz to 1 GHz, 1 GHz to 18 GHz and 18 GHz to 26.5 GHz) during preliminary investigations. The final data was taken with a frequency span of 1 MHz. Furthermore, the frequency span was reduced during the preliminary investigations as deemed necessary.

The 5 meter semi-anechoic chamber of Electro Magnetic Test, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4: 2014. 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. Data was collected in the worst case (highest emission) configuration of the EUT. The EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength).

The presence of non EUT signals was verified by turning the EUT off. In case a non EUT signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the other signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance from 9 kHz to 26.5 GHz. to obtain final test data.

Calculation Of Radiated Emission Test Data:

Amplitude - Gain + Antenna Factor + Cable Loss = Corrected Amplitude

Corrected Amplitude - Limit = Margin

Associated with the radiated emission test data in this report is a ± 5.1 dB measurement uncertainty.



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7.1.4 Test Procedure (Conducted)

This testing was not required; please see the results table for reasoning.

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7.2 Conducted Emissions Test – Mains Ports**7.2.1 Limit (FCC PART 15 Section 15.207(a), IC RSS-GEN Issue 5 [8.8])**

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

*Note: Decreases with the logarithm of the frequency

7.2.2 Test Procedure

This testing was not required; please see the results table for reasoning.

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7.3 Occupied Bandwidth**7.3.1 Limit (FCC PART 15 Section 15.247(a)(2), IC-RSS 247 Issue 1, [5.2.1])****FCC PART 15 Section 15.247(a)(2)**

Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz

IC-RSS 247 Issue 1 [5.2.1]

DTSS include systems that employ digital modulation techniques resulting in spectral characteristics similar to direct sequence systems. The following applies to the bands 902-928 MHz and 2400-2483.5 MHz

Limit
6 dB Bandwidth $\geq$ 500 kHz

7.3.2 Test Procedure

Follow the radiated test procedure but set the Spectrum Analyzer as below:

RBW: 100 kHz

VBW: $\geq 3 \times$ RBW

Detector: Peak

Trace Mode: Max Hold

- (1) Set analyzer center frequency to center of signal
- (2) Turn on occupied bandwidth measurement mode
- (3) Set measurement to 6db bandwidth

Associated with the Occupied Bandwidth test data in this report is a $\pm 2.5\%$ measurement uncertainty.

7.3.3 Test Result

The EUT meets the requirements. Please see the datasheets in Appendix A for the measurement results.



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7.4 Maximum Peak Output Power

7.4.1 Limit (FCC PART 15 Section 15.247(b)(3), IC-RSS 247 Issue 1, [5.4.4])

FCC PART 15 Section 15.247(b)(3)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

IC-RSS 247 Issue 1, [5.4.4]

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. Except provided in Section 5.4(5), the e.i.r.p. shall not exceed 4 W.

Limit
Maximum Peak Output Power (Digital Modulation) $\leq$ 1Watt or 30 dBm

7.4.2 Test Procedure

Follow the radiated test procedure but set the Spectrum Analyzer as below:

RBW > DTS Bandwidth

VBW $\geq$ 3 x RBW

Span $\geq$ 3 * RBW

Detector: Peak

Trace Mode: Max Hold

- (1) When the trace is completed, mark the peak value
- (2) Calculate the Field strength at 3Meters.
 - a. $E3 = \text{Results} - GP + AF + CL + 107$
Where:
 - b. Results = Specific uncorrected results from test (dBm)
 - c. GP = Pre-Amp Gain (dB)
 - d. AF = Antenna Factor (dB/m)
 - e. CL = Cable Loss (dB)
- (3) Calculate the EIRP by using the following equation:
 - a. $EIRP = E3 - 95.2$
Where:
 - b. $E3 = \text{See Step 2 (dBuV/m @ 3m)}$
- (4) Calculate the Peak Output Power by using the following equation:
 - a. Peak Power = EIRP - G_A
Where:
 - b. EIRP = See step 3 (dBm)
 - c. G_A = Antenna Gain (dBi)

Associated with the Maximum Peak Output Power test data in this report is a ± 5.1 dB measurement uncertainty.

7.4.3 Test Result

The EUT meets the requirements. Please see the datasheets in Appendix A for the measurement results.



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7.5 Maximum Peak Power Spectral Density

7.5.1 Limit (FCC PART 15 Section 15.247(e), IC-RSS 247 Issue 1, [5.2.2])

FCC PART 15 Section 15.247(e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density

Limit
8 dBm/3 KHz

7.5.2 Test Procedure

Follow the radiated test procedure but set the Spectrum Analyzer as below:

$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$

$\text{VBW} \geq 3 \times \text{RBW}$

$\text{Span} \geq 1.5 \times \text{DTS Bandwidth}$

Detector: Peak

Sweep Time auto

- 1) Use Peak Marker Function
- 2) If value Exceeds limit, reduce RBW (no less than 3 kHz)
- 3) Calculate the Field strength at 3Meters.
 - a) $E_3 = \text{Results} - G_p + \text{AF} + \text{CL} + 107$
Where:
 - b) Results = Specific uncorrected results from test (dBm)
 - c) G_p = Pre-Amp Gain (dB)
 - d) AF = Antenna Factor (dB/m)
 - e) CL = Cable Loss (dB)
- 4) Calculate the EIRP by using the following equation:
 - a) $\text{EIRP} = E_3 - 95.2$
Where:
 - b) E_3 = See Step 3 (dBuV/m @ 3m)
- 5) Calculate the Peak Output Power by using the following equation:
 - a) $\text{Peak Power} = \text{EIRP} - G_A$
Where:
 - b) EIRP = See step 4 (dBm)
 - c) G_A = Antenna Gain (dBi)

Associated with the Maximum Peak Power Spectral Density test data in this report is a ± 5.1 dB measurement uncertainty.

7.5.3 Test Result

The EUT meets the requirements. Please see the datasheets in Appendix A for the measurement results.

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7.6 Antenna Requirement

7.6.1 Requirement (FCC PART 15 SECTION 15.203,15.247(b)(4))

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section.

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.6.2 Test Result

The antenna is integrated on the main PCB with no consideration for replacement on the Brewer.



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8. CONCLUSIONS / COMPLIANCE STATEMENT

Based upon the results contained in this report, Electro Magnetic Test, Inc. has determined that the Brewer, Model: OSMA meets all of the specification limits defined in FCC Title 47, Part 15, Subpart C and IC RSS 247, Issue 2.



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APPENDIX A

RADIATED AND CONDUCTED EMISSIONS DATA SHEETS

Radiated Emission Test Report

Tested At:
Electro Magnetic Test, Inc.
1547 Plymouth Street
Mountain View, CA 94043
Tel. 650-965-4000
Fax. 650-965-3000

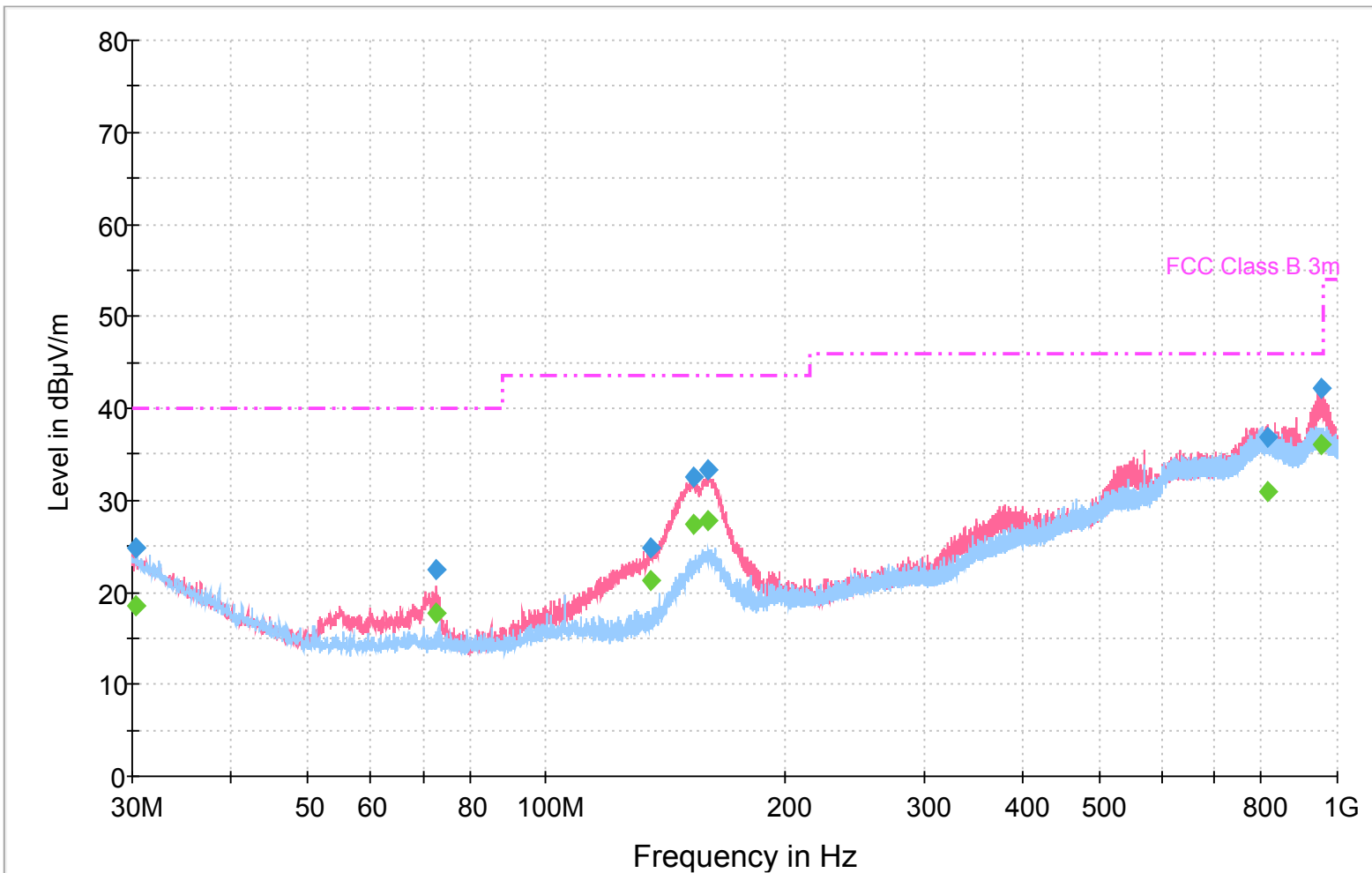
Common Information

Test Description:	FCC Class B Radiated Emissions
Operating Conditions:	Normal
Test Engineer:	Andreas Davidsson

EUT Information

Company Name:	OSMOSA, Inc.
EUT Name	OSMA
Model Number:	OSMA
Serial Number:	N/A
Comment:	Non-Charging Mode

FCC Class B Radiated Scan 3m PK QP



----- FCC Class B 3m
◆ Final Result 1-PK+

----- Preview Result 1V-PK+
◆ Final Result 2-QP

----- Preview Result 1H-PK+

Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
30.330000	24.8	100.0	H	106.0	20.7	15.20	40.00	
72.660000	22.5	100.0	V	247.0	12.3	17.50	40.00	
135.300000	24.9	100.0	V	120.0	13.4	18.60	43.50	
153.630000	32.4	182.0	V	267.0	15.3	11.10	43.50	
160.200000	33.2	100.0	V	290.0	15.8	10.30	43.50	
816.090000	36.9	135.0	V	129.0	31.3	9.10	46.00	
955.800000	42.2	212.0	V	90.0	31.8	3.80	46.00	

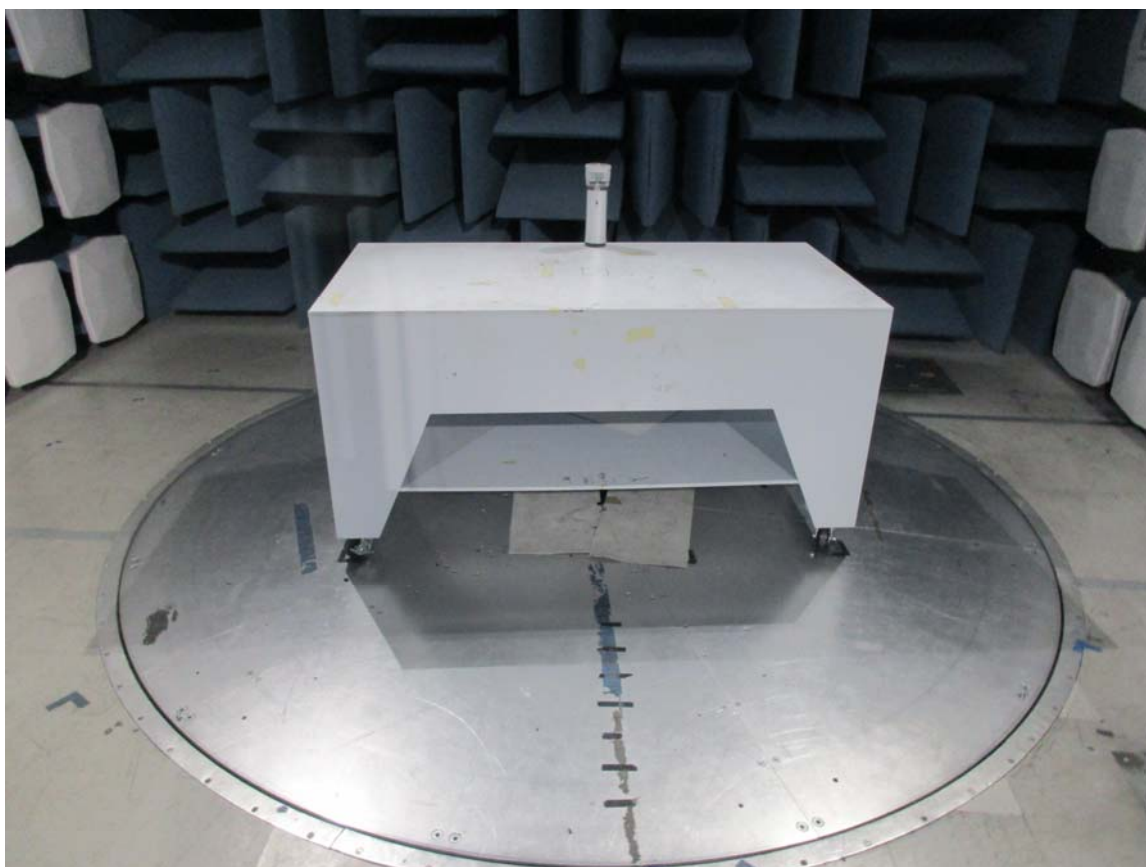
Final Result 2

Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
30.330000	18.4	100.0	H	106.0	20.7	21.60	40.00	
72.660000	17.8	100.0	V	247.0	12.3	22.20	40.00	
135.300000	21.3	100.0	V	120.0	13.4	22.20	43.50	
153.630000	27.3	182.0	V	267.0	15.3	16.20	43.50	
160.200000	27.8	100.0	V	290.0	15.8	15.70	43.50	
816.090000	30.9	135.0	V	129.0	31.3	15.10	46.00	
955.800000	36.1	212.0	V	90.0	31.8	9.90	46.00	



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FRONT VIEW

OSMOSA, INC.

Brewer

Model: OSMA

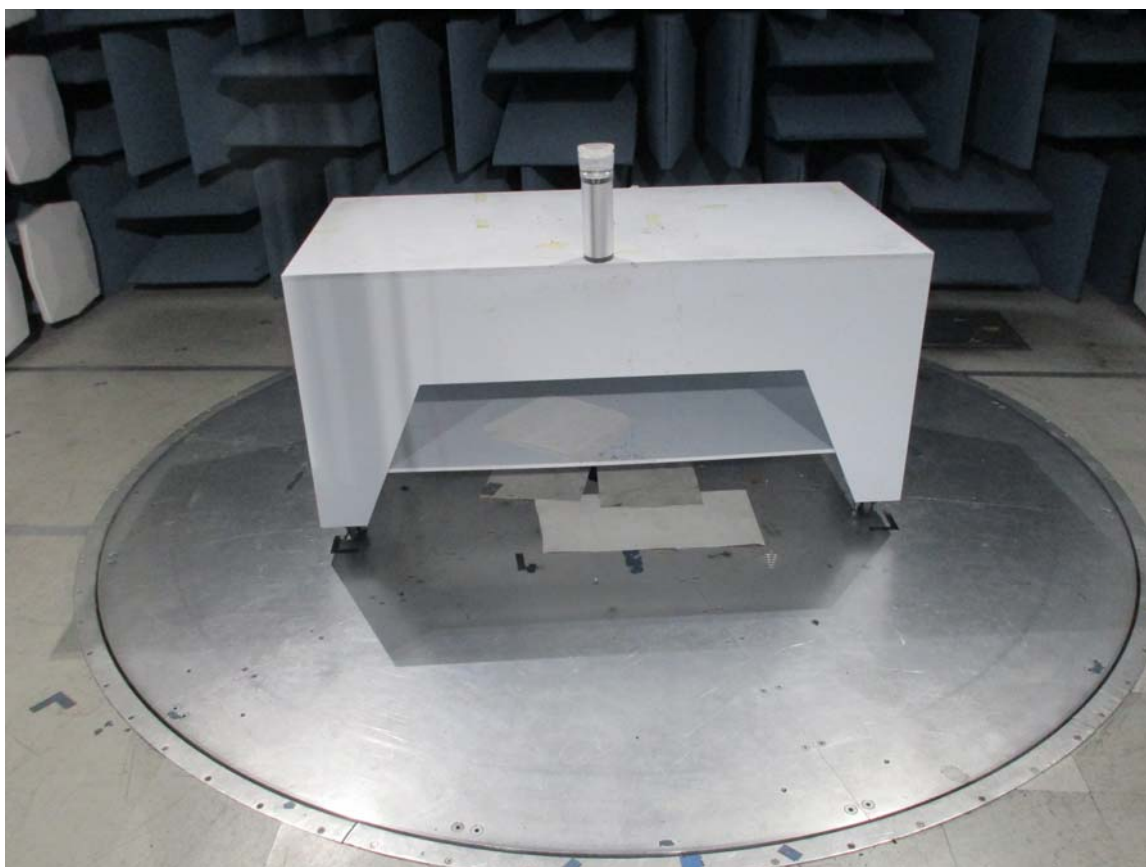
CISPR 22/FCC Class B – Radiated Emissions

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000



REAR VIEW

OSMOSA, INC.

Brewer

Model: OSMA

CISPR 22/FCC Class B – Radiated Emissions

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Radiated Emission Test Report

Tested At:
Electro Magnetic Test, Inc.
1547 Plymouth Street
Mountain View, CA 94043
Tel. 650-965-4000
Fax. 650-965-3000

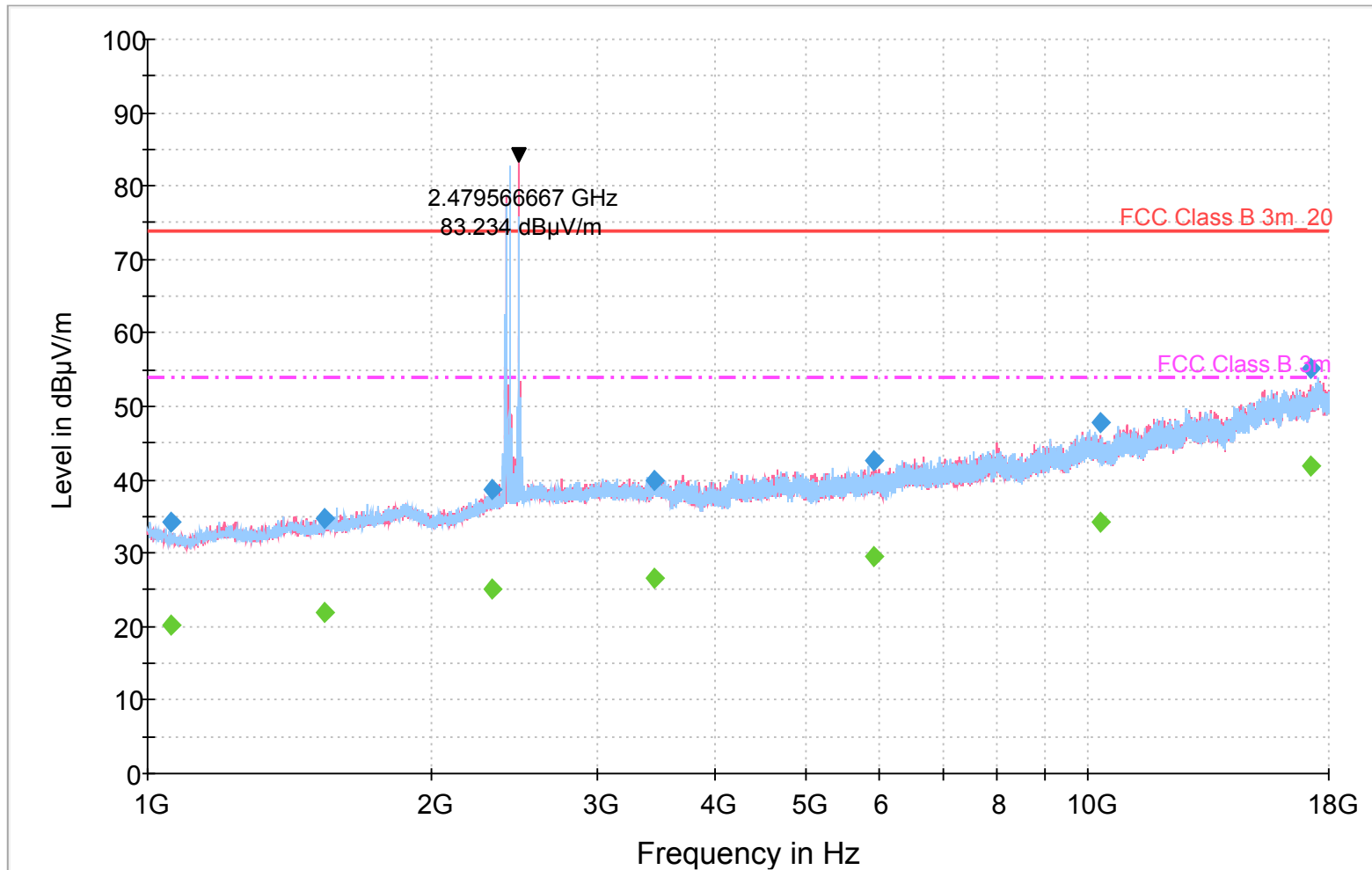
Common Information

Test Description:	FCC Class B Radiated Emissions
Operating Conditions:	Normal
Test Engineer:	Andreas Davidsson

EUT Information

Company Name:	OSMOSA, Inc.
EUT Name	OSMA
Model Number:	OSMA
Serial Number:	N/A
Comment:	Non-Charging Mode

FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



— FCC Class B 3m_20 - - - FCC Class B 3m — Preview Result 1V-PK+
— Preview Result 1H-PK+ ◆ Final Result 1-PK+ ◆ Final Result 2-AVG

Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
1056.666667	34.2	100.0	V	118.0	-4.6	39.80	74.00	
1539.466667	34.8	268.0	H	192.0	-3.0	39.20	74.00	
2323.733333	38.7	251.0	V	1.0	0.6	35.30	74.00	
3452.533333	39.9	185.0	V	273.0	3.0	34.10	74.00	
5923.766667	42.6	211.0	V	2.0	6.9	31.40	74.00	
10289.366667	47.9	156.0	V	258.0	14.3	26.10	74.00	
17249.733333	55.3	176.0	V	109.0	22.9	18.70	74.00	

Final Result 2

Frequency (MHz)	Average (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
1056.666667	20.1	100.0	V	118.0	-4.6	33.90	54.00	
1539.466667	21.9	268.0	H	192.0	-3.0	32.10	54.00	
2323.733333	25.0	251.0	V	1.0	0.6	29.00	54.00	
3452.533333	26.7	185.0	V	273.0	3.0	27.30	54.00	
5923.766667	29.5	211.0	V	2.0	6.9	24.50	54.00	
10289.366667	34.3	156.0	V	258.0	14.3	19.70	54.00	
17249.733333	41.9	176.0	V	109.0	22.9	12.10	54.00	

Radiated Emission Test Report

Tested At:
Electro Magnetic Test, Inc.
1547 Plymouth Street
Mountain View, CA 94043
Tel. 650-965-4000
Fax. 650-965-3000

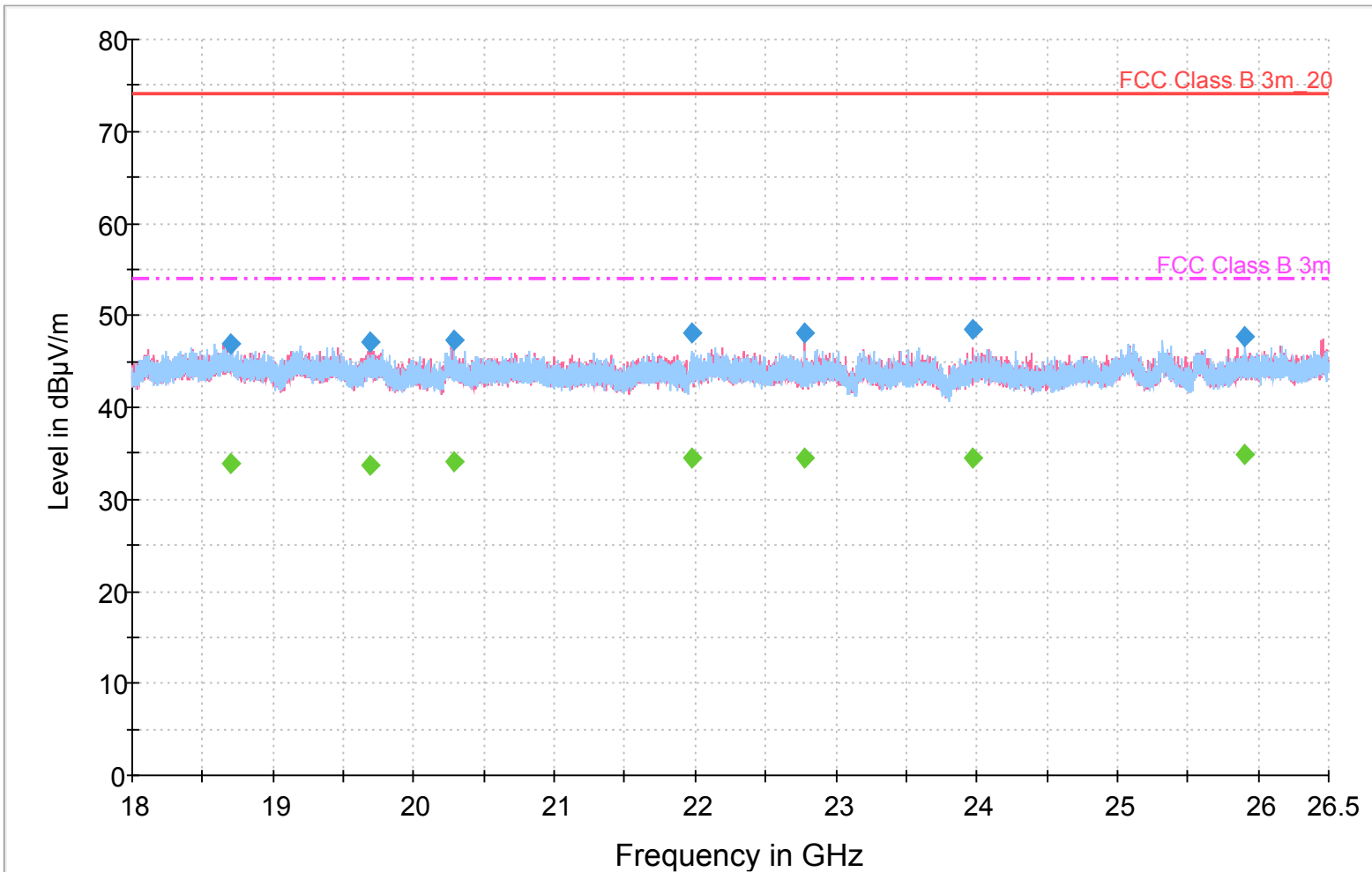
Common Information

Test Description:	FCC Class B Radiated Emissions
Operating Conditions:	Normal
Test Engineer:	David Vivanco

EUT Information

Company Name:	OSMOSA, Inc.
EUT Name	OSMA
Model Number:	OSMA
Serial Number:	N/A
Comment:	Non-Charging Mode

FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



— FCC Class B 3m_20 - - - FCC Class B 3m — Preview Result 1V-PK+
— Preview Result 1H-PK+ ◆ Final Result 1-PK+ ◆ Final Result 2-AVG

Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
18694.450000	46.9	240.0	H	44.0	10.7	27.10	74.00	
19696.175000	47.1	277.0	V	44.0	10.8	26.90	74.00	
20288.625000	47.4	213.0	H	118.0	11.0	26.60	74.00	
21972.050000	48.1	294.0	H	223.0	11.6	25.90	74.00	
22778.700000	48.1	250.0	V	333.0	11.7	25.90	74.00	
23974.225000	48.5	177.0	V	95.0	11.5	25.50	74.00	
25908.825000	47.7	274.0	H	234.0	11.7	26.30	74.00	

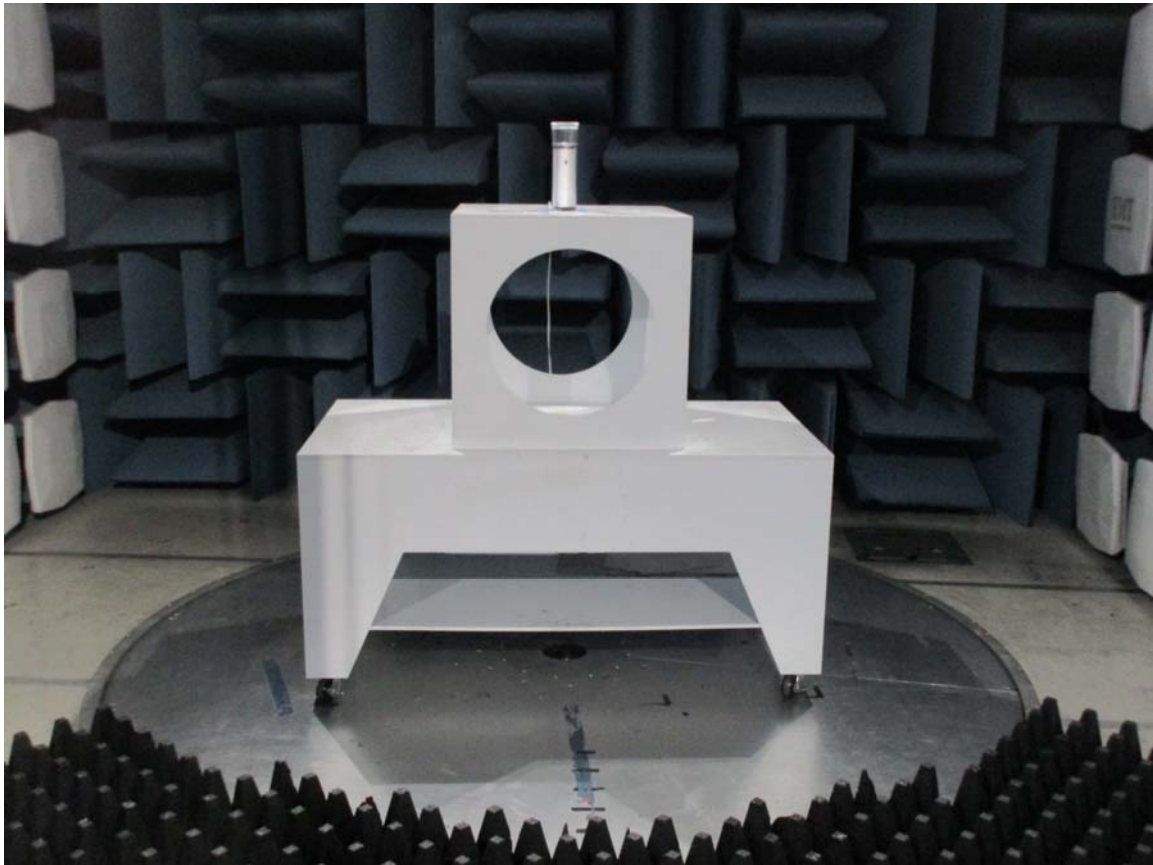
Final Result 2

Frequency (MHz)	Average (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
18694.450000	33.8	240.0	H	44.0	10.7	20.20	54.00	
19696.175000	33.7	277.0	V	44.0	10.8	20.30	54.00	
20288.625000	34.1	213.0	H	118.0	11.0	19.90	54.00	
21972.050000	34.4	294.0	H	223.0	11.6	19.60	54.00	
22778.700000	34.5	250.0	V	333.0	11.7	19.50	54.00	
23974.225000	34.4	177.0	V	95.0	11.5	19.60	54.00	
25908.825000	34.8	274.0	H	234.0	11.7	19.20	54.00	



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FRONT VIEW

OSMOSA, INC.

Brewer

Model: OSMA

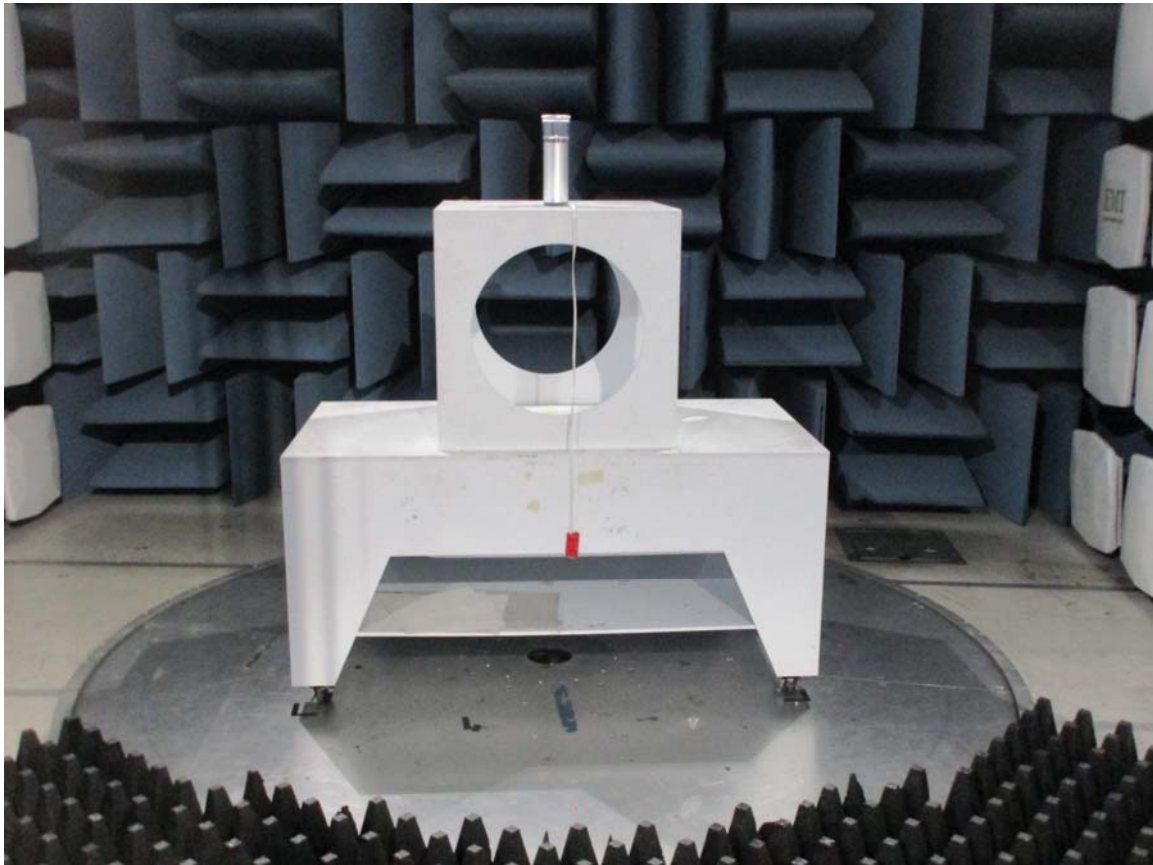
CISPR 22/FCC Class B – Radiated Emissions (>1GHz)

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



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REAR VIEW

OSMOSA, INC.

Brewer

Model: OSMA

CISPR 22/FCC Class B – Radiated Emissions (>1GHz)

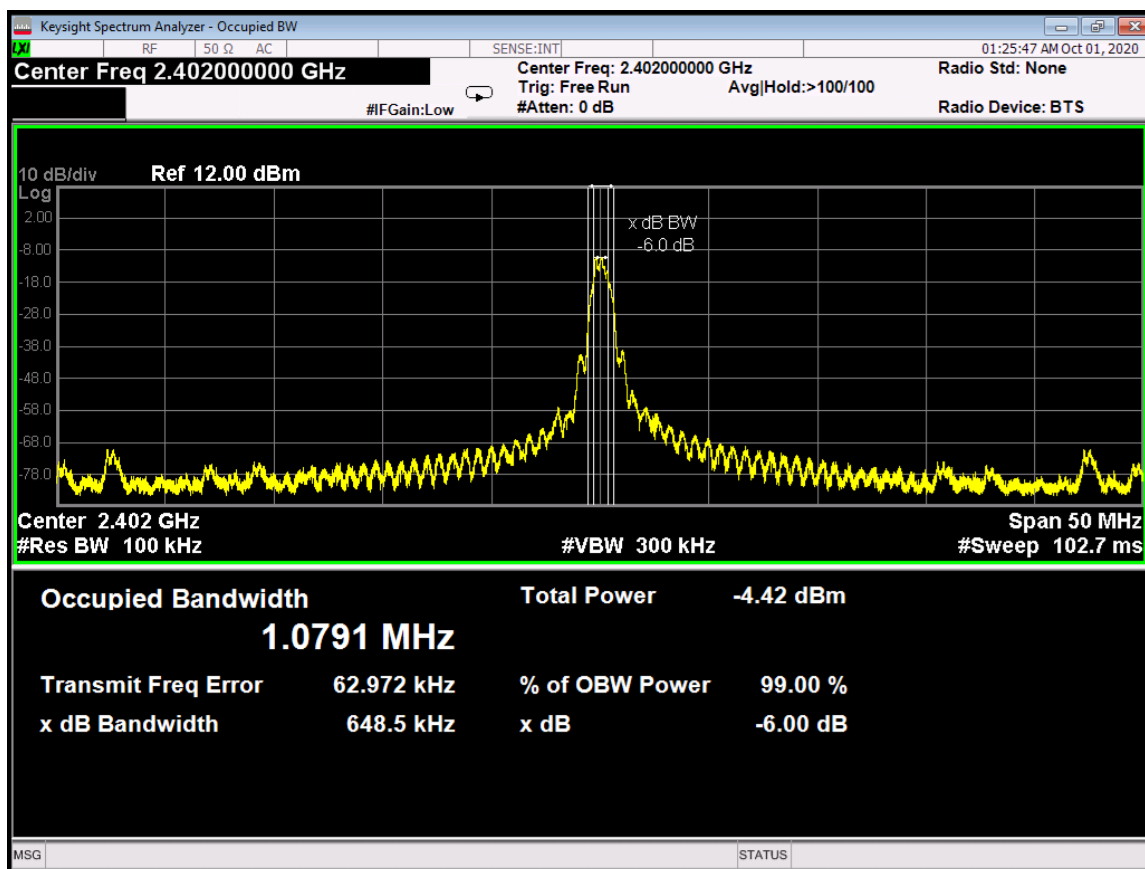
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



Company:	OSMOSA, INC.		Test Date:		9/30/2020	
EUT Name:	Brewer		Test Engineer:		Andreas Davidsson	
Model:	OSMA		Test Result:		PASS	
Operating Mode:	TX Mode					
Mode	Test CH	Frequency (MHz)	6 dB Bandwidth (KHz)	99% Occupied Bandwidth (MHz)	6 dB Bandwidth Limit (KHz)	Conclusion
Bluetooth LE	0	2402	648.5	1.0791	≥ 500	PASS
	19	2440	626.2	1.0771	≥ 500	PASS
	39	2480	641	1.0787	≥ 500	PASS
Test Equipment: Please refer to section 5.2						

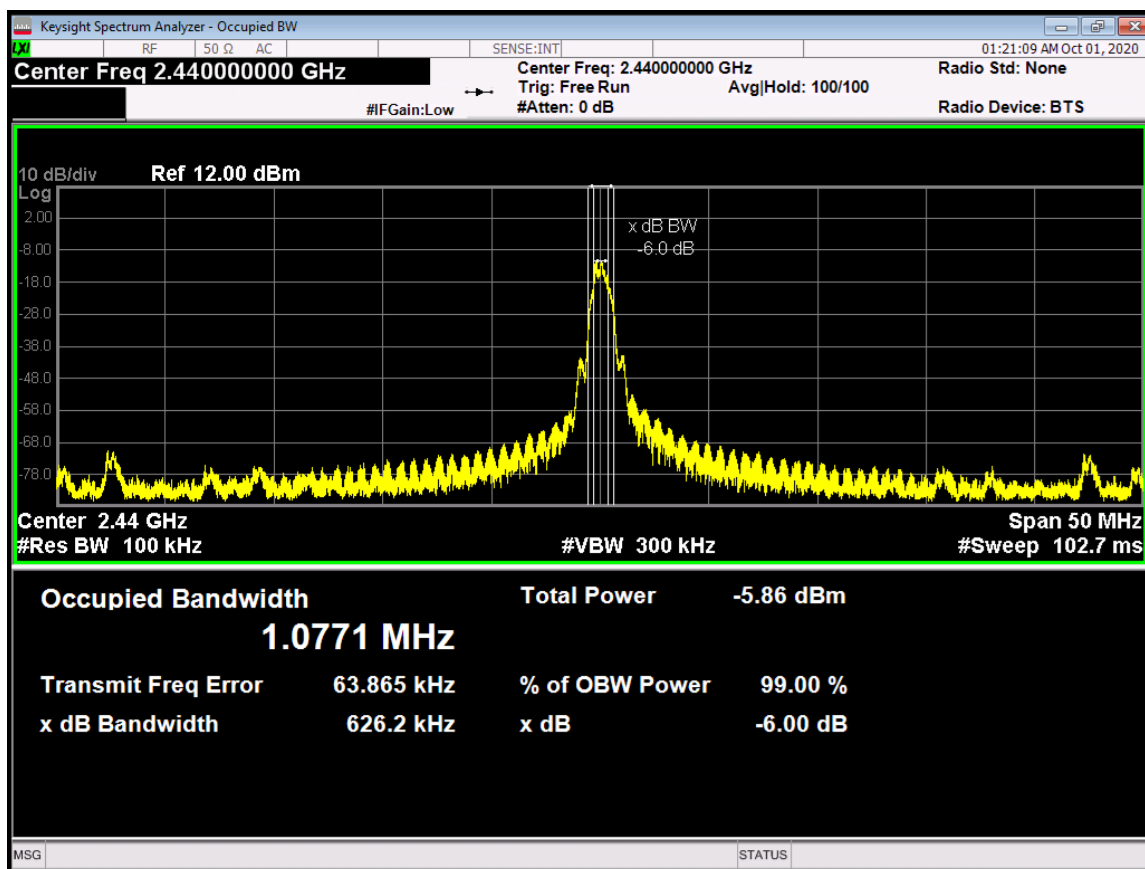
**ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

**Channel 0**

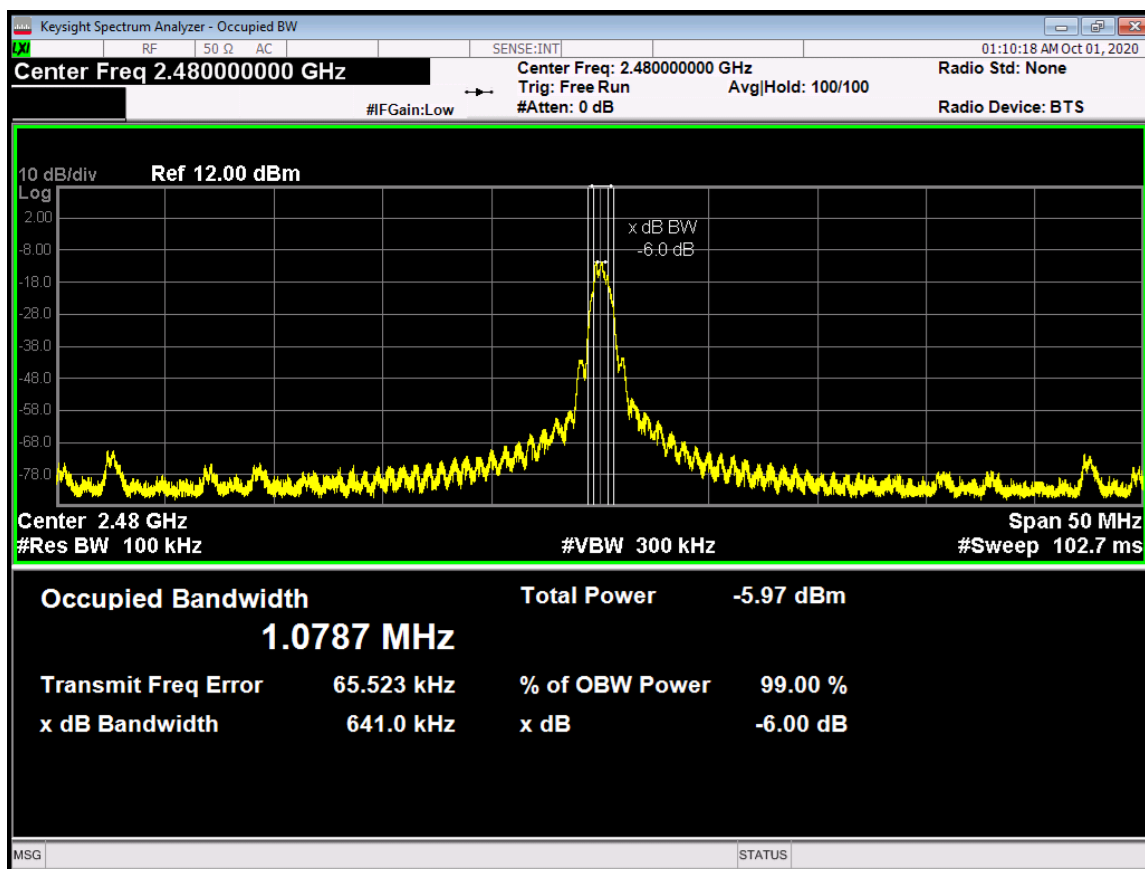
**ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

**Channel 19**

**ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

**Channel 39**


ELECTRO MAGNETIC TEST, INC.

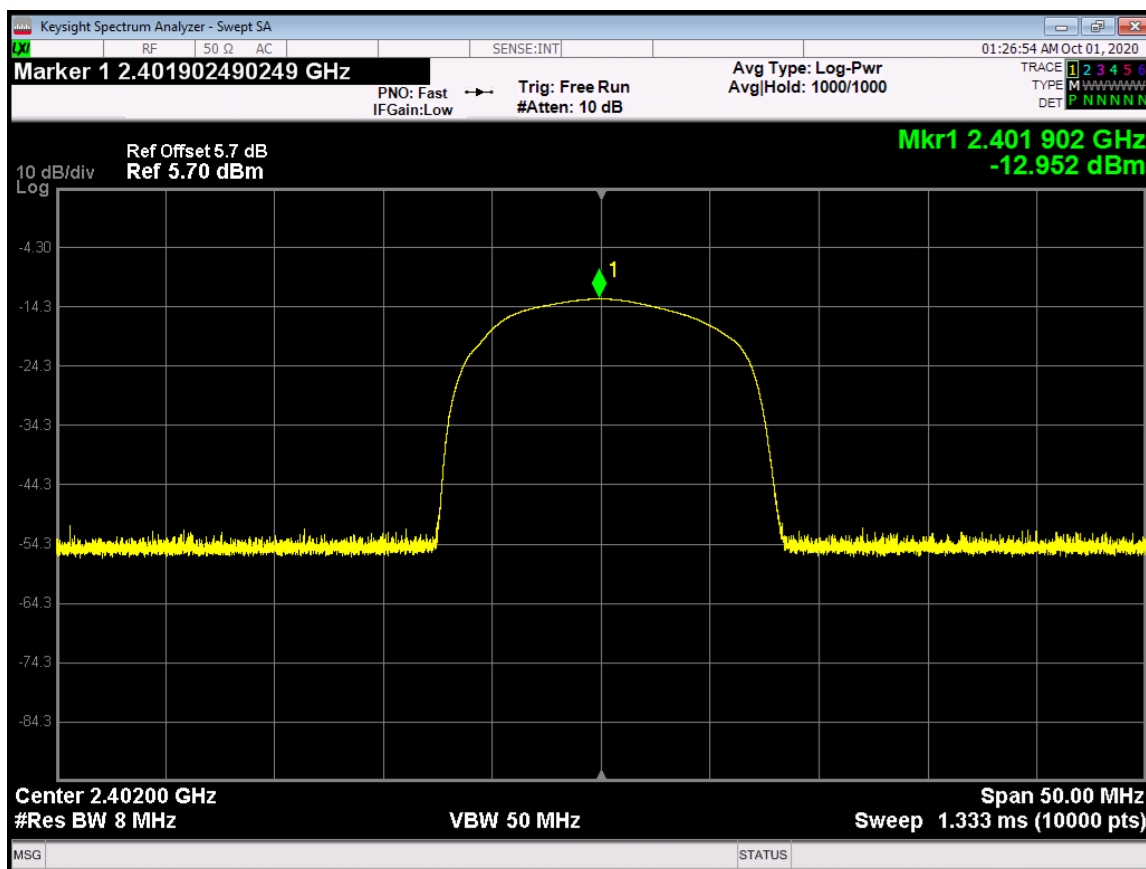
1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

Maximum Peak Output Power Test Data

Company:	OSMOSA, INC.		Test Date	9/30/2020	
EUT Name	Brewer		Test Engineer	Andreas Davidsson	
Model:	OSMA		Test Result	PASS	
Operating Mode	TX Mode				
Mode	Test CH	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Conclusion
Bluetooth LE	0	2402	2.508	≤ 30	Pass
	19	2440	-0.370	≤ 30	Pass
	39	2480	-0.832	≤ 30	Pass
Test Equipment: Please refer to section 5.2					
Peak Output Power Calculation (See Section 7.4.2 for calculation explanation)					
Channel 0: $((-12.952+5.7+107)-95.2)-2.04 = 2.508$					
Channel 19: $((-15.830+5.7+107)-95.2)-2.04 = -0.37$					
Channel 39: $((-16.292+5.7+107)-95.2)-2.04 = -0.832$					

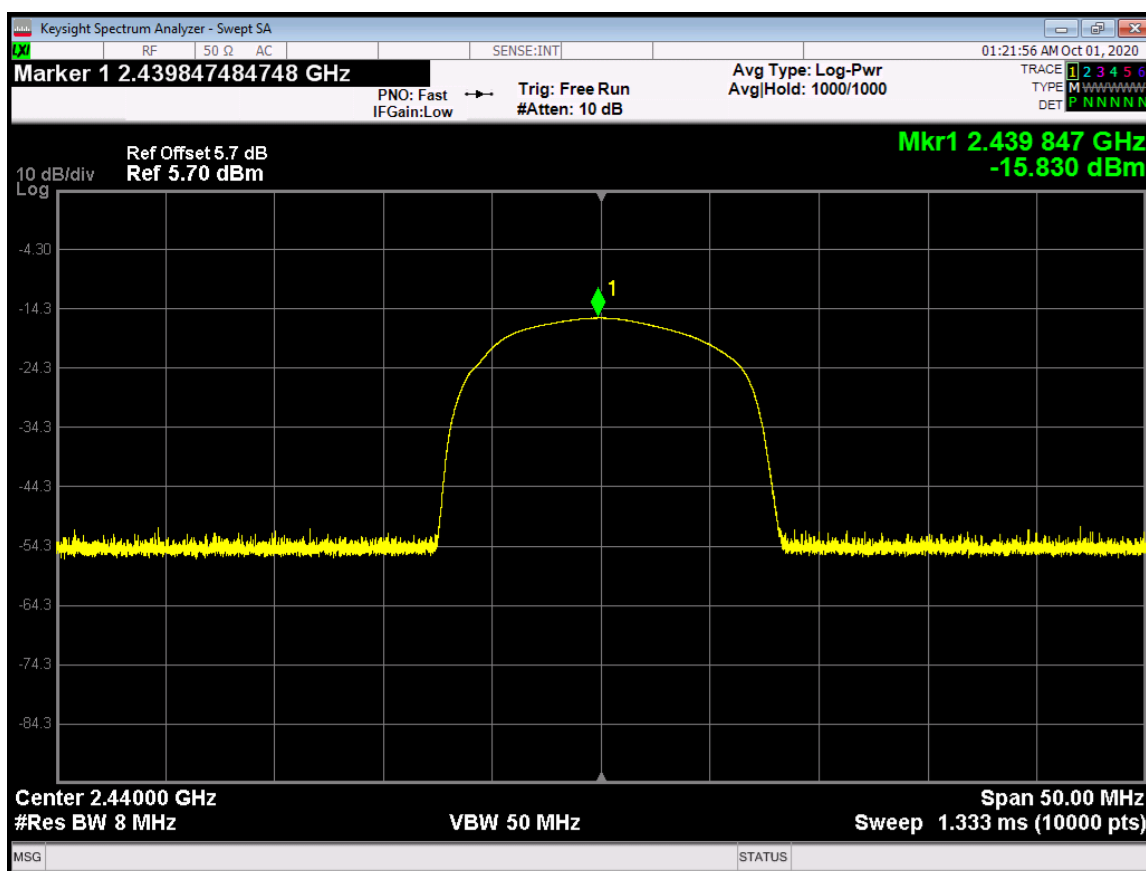
**ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

**Channel 0**

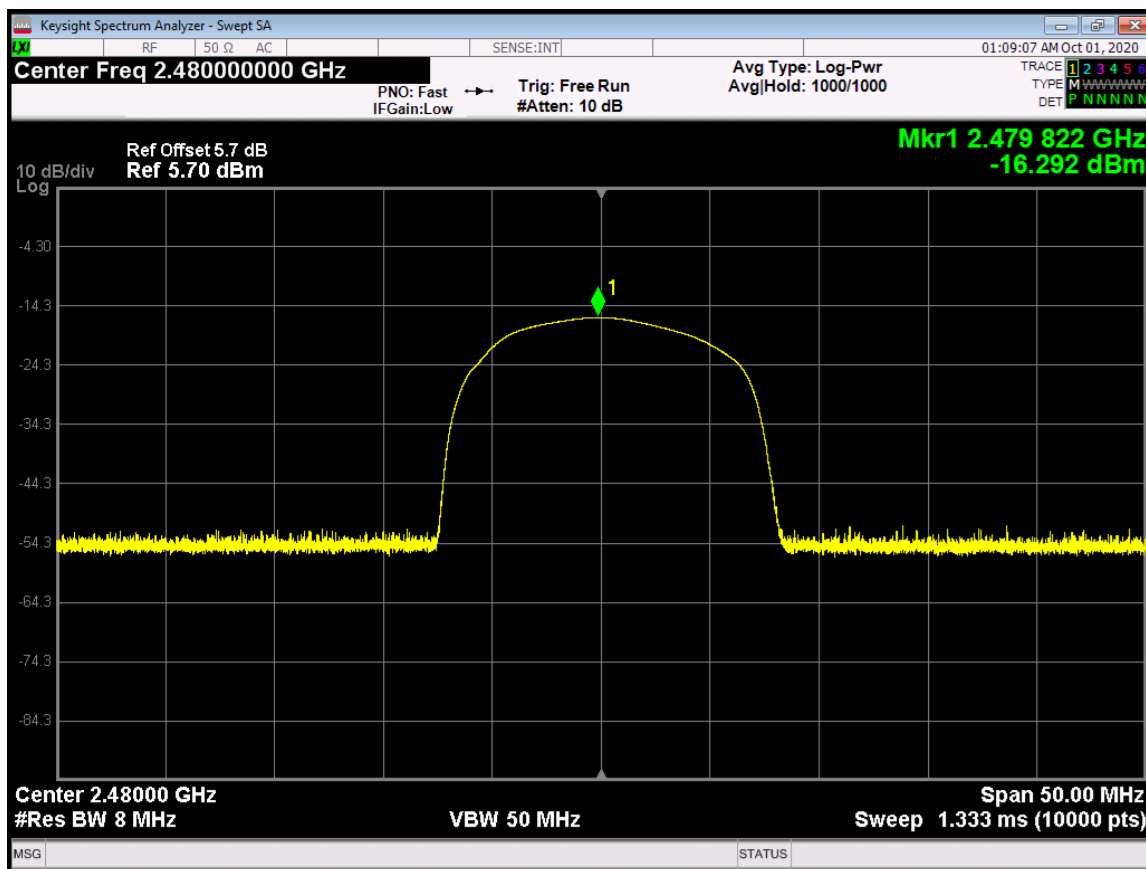
**ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

**Channel 19**

**ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

**Channel 39**


ELECTRO MAGNETIC TEST, INC.

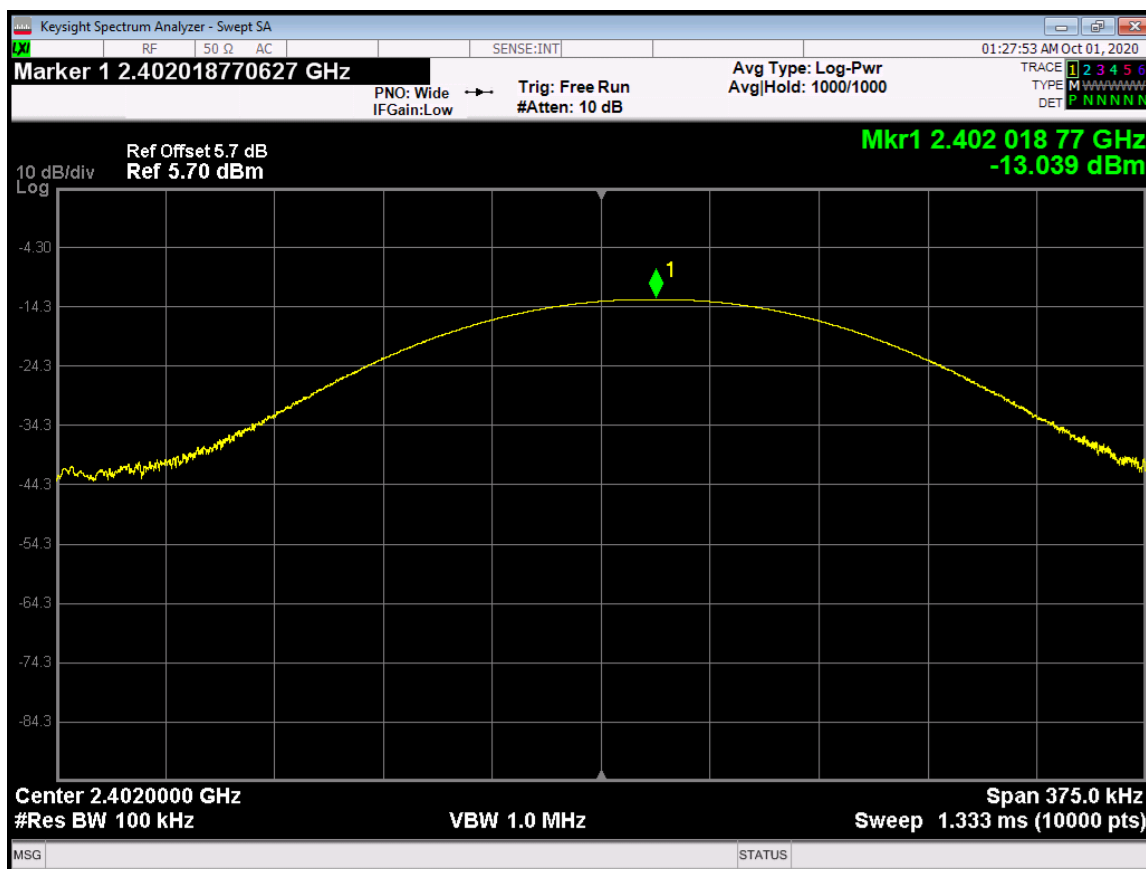
1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

Maximum Power Spectral Density Test Data

Company:	OSMOSA, INC.		Test Date	9/30/2020	
EUT Name	Brewer		Test Engineer	Andreas Davidsson	
Model:	OSMA		Test Result	PASS	
Operating Mode	TX Mode				
Mode	Test CH	Frequency (MHz)	Peak (dBm)	Limit (dBm)	Conclusion
Bluetooth LE	0	2402	2.421	≤ 8	Pass
	19	2440	-0.521	≤ 8	Pass
	39	2480	-0.880	≤ 8	Pass
Test Equipment: Please refer to 5.2					
Peak Calculation (See Section 7.5.2 for calculation explanation)					
Channel 0: $((-13.039+5.7+107)-95.2)-2.04 = 2.421$					
Channel 19: $((-15.981+5.7+107)-95.2)-2.04 = -0.521$					
Channel 39: $((-16.340+5.7+107)-95.2)-2.04 = -0.880$					

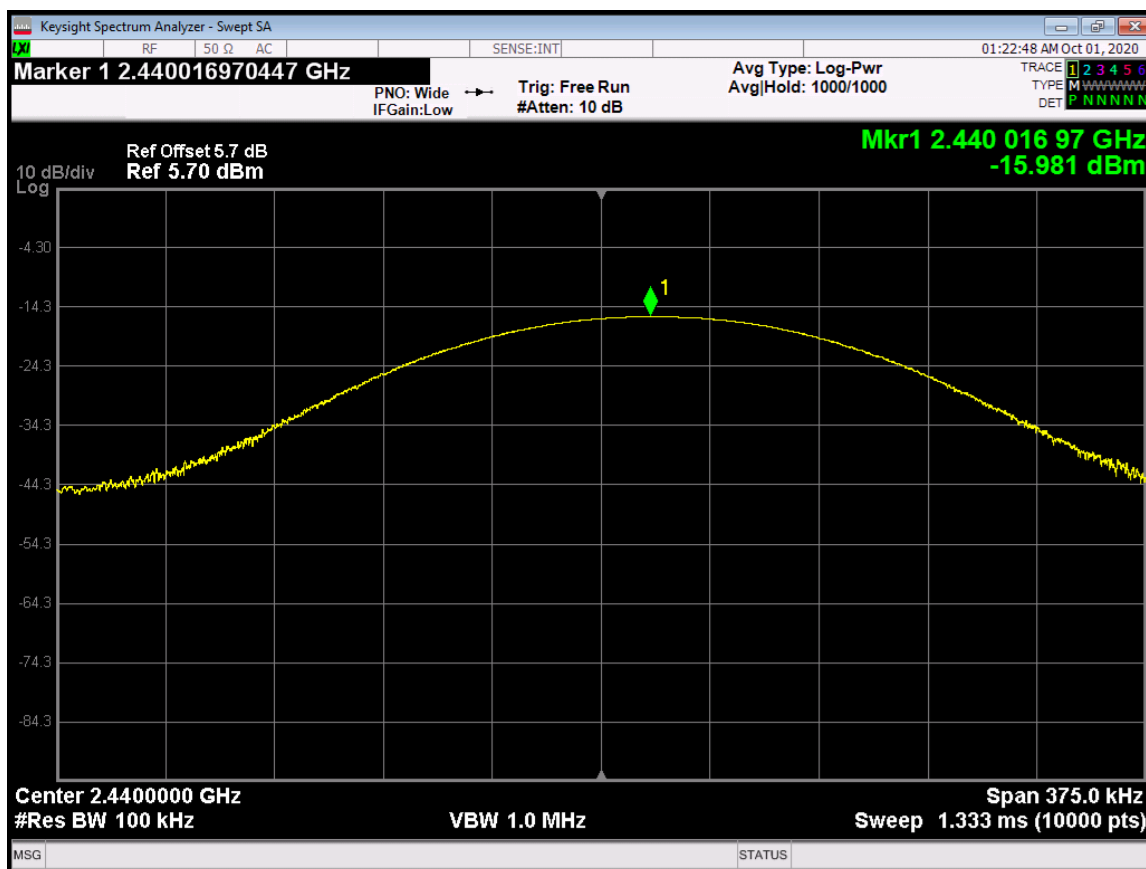
**ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

**Channel 0**

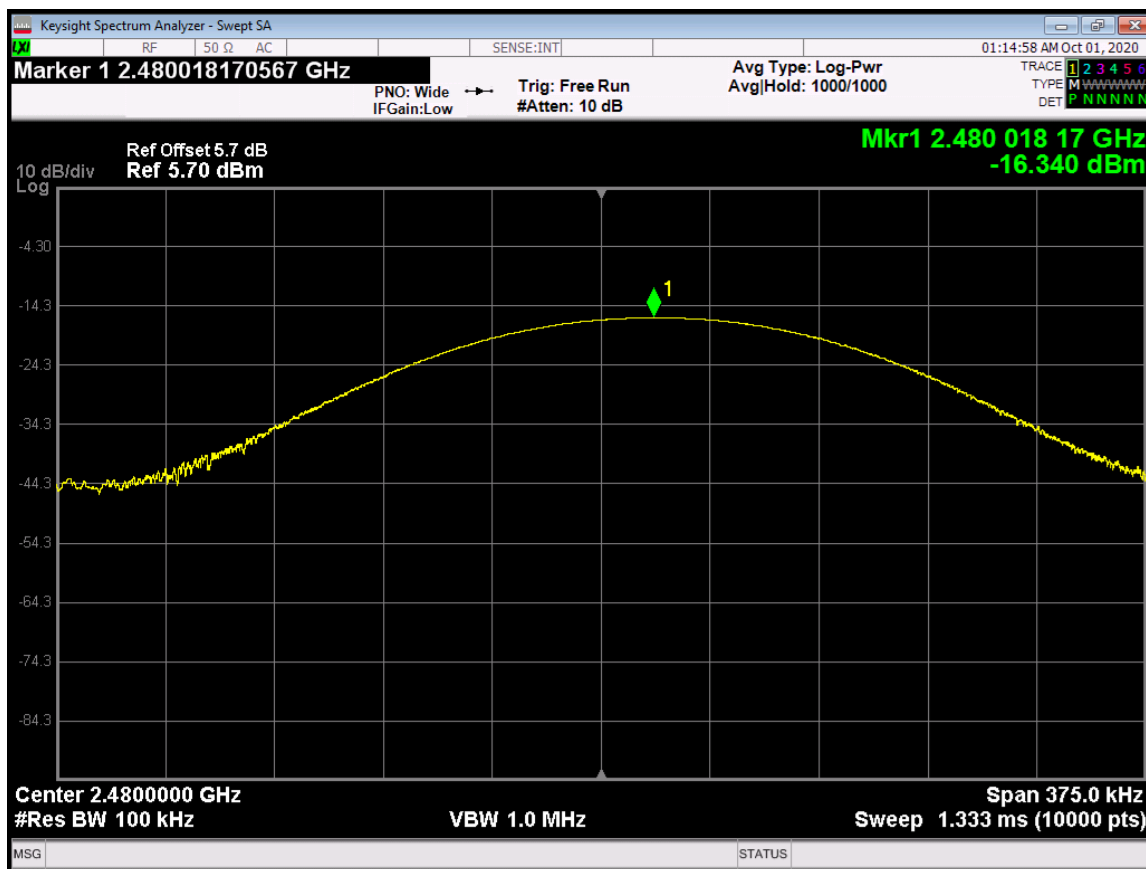
**ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

**Channel 19**

**ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

**Channel 39**



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APPENDIX B

TEST SETUP DIAGRAMS





ELECTRO MAGNETIC TEST, INC.

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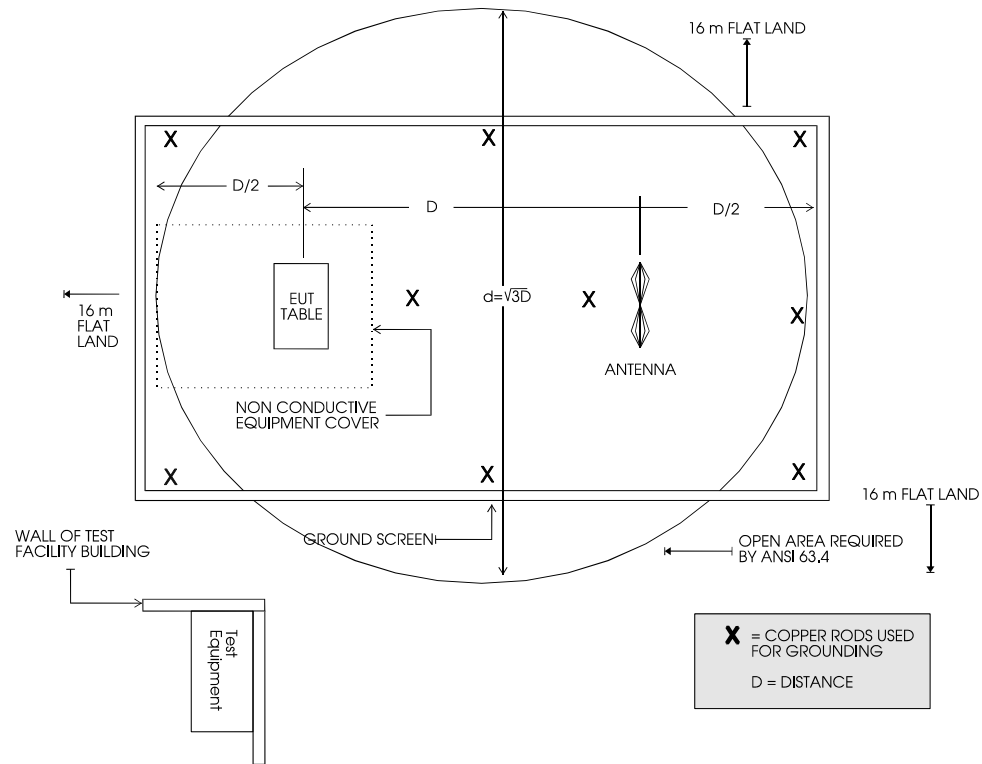


FIGURE 2 - PLOT MAP AND LAYOUT OF TEST SITE "A"

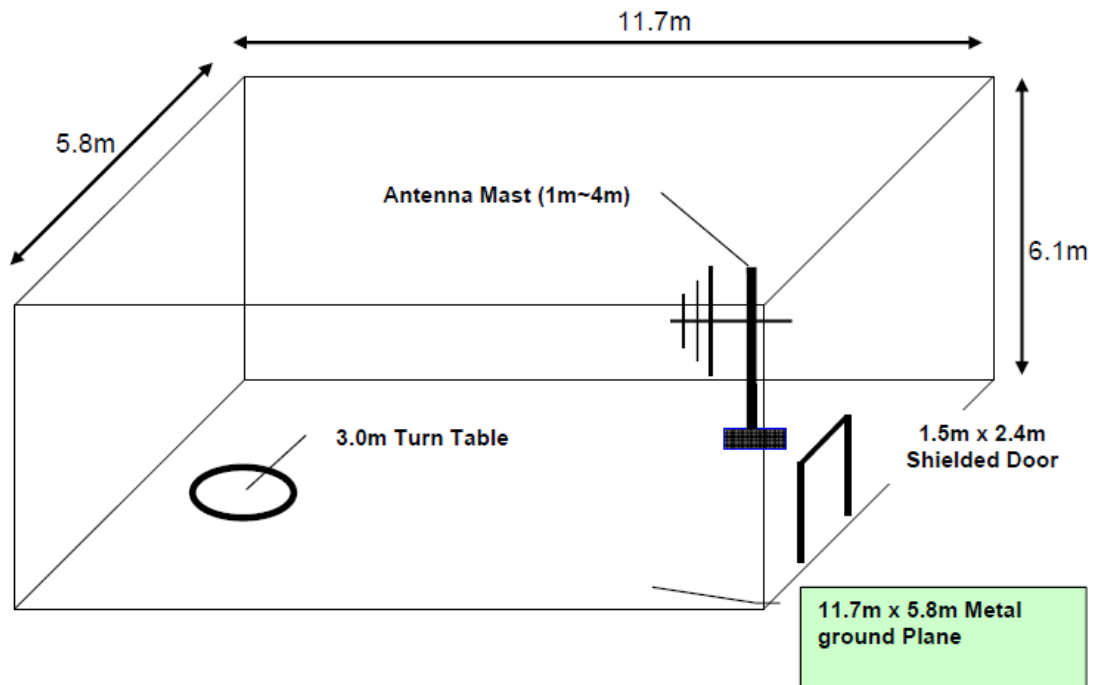


FIGURE 3 - LAYOUT OF 5 METER SEMI-ANECHOIC CHAMBER



ELECTRO MAGNETIC TEST, INC.

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APPENDIX C

MODIFICATIONS TO THE EUT



ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

MODIFICATIONS TO THE EUT

No modifications were made to the EUT by Electro Magnetic Test, Inc. personnel during the testing.



ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

APPENDIX D

ADDITIONAL MODELS COVERED UNDER THIS REPORT



ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

ADDITIONAL MODELS COVERED UNDER THIS REPORT

There are no additional models to be covered under this report.



ELECTRO MAGNETIC TEST, INC.

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End of Report

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and marks the last page of this report