

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 1 of 29

TEST REPORT

Application No.:	SZCR2305001440AT
Applicant:	Very Great, Inc DBA Courant
Address of Applicant:	228 Park Ave South PMB 53363, New York 10003 United States
Manufacturer:	Very Great, Inc DBA Courant
Address of Manufacturer:	228 Park Ave South PMB 53363, New York 10003 United States
Equipment Under Test (EUT	·):
EUT Name:	MAG:2 Essentials (MFM)
Model No.:	CR-MAG2-ES-MFM-GN, CR-MAG2-ES-MFM-CM
%	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	Courant
FCC ID:	2ARIH-MAG2M
Standard(s) :	47 CFR Part 15, Subpart C
Date of Receipt:	2023-05-15
Date of Test:	2023-05-16 to 2023-06-13
Date of Issue:	2023-06-19
Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards specified above.

Keny. xu

Keny Xu EMC Laboratory Manager



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Report No.: SZCR230500144001 Page: 2 of 29

	Revision Record						
Version	Version Chapter Date Modifier Ren						
01		2023-06-19		Original			

Authorized for issue by:			
	Più Chen		
	Bill Chen/Project Engineer		
	Eric Fu		
	Eric Fu/Reviewer	_	



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 3 of 29

Test Summary 2

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C	N/A	47 CFR Part 15, Subpart C 15.203	Pass		

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass		
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2013) Section 6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Emissions (9kHz-30MHz)	47 CFR Part 15, Subpart C	ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart C 15.215	Pass		
Restricted Bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205	Pass		

Declaration of EUT Family Grouping:

Model No.: CR-MAG2-ES-MFM-GN, CR-MAG2-ES-MFM-CM

Only the model CR-MAG2-ES-MFM-CM was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on model No., shape and color of the shell.



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 4 of 29

3 Contents

		Page
1	Cover Page	1
2	Test Summary	
3	Contents	1
3		
4	General Information	6
	4.1 Details of E.U.T.	
	4.2 Description of Support Units	
	4.3 Measurement Uncertainty4.4 Test Location	
	4.4 Test Education	
	4.6 Deviation from Standards	
	4.7 Abnormalities from Standard Conditions	
5	Equipment List	
6	Radio Spectrum Technical Requirement	10
0		
	6.1 Antenna Requirement6.1.1 Test Requirement:	
	6.1.1 Test Requirement: 6.1.2 Conclusion	
7		
1	-	
	 7.1 Conducted Emissions at AC Mains Power Port (150kHz-30MHz) 7.1.1 E.U.T. Operation 	
	7.1.1 E.U.T. Operation7.1.2 Test Mode Description	
	7.1.2 Test Node Description	
	7.1.4 Measurement Procedure and Data	
	7.2 Radiated Emissions (30MHz-1GHz)	
	7.2.1 E.U.T. Operation	
	7.2.2 Test Mode Description	
	7.2.3 Test Setup Diagram	
	7.2.4 Measurement Procedure and Data7.3 Radiated Emissions (9kHz-30MHz)	
	7.3.1 E.U.T. Operation	
	7.3.2 Test Mode Description	
	7.3.3 Test Setup Diagram	
	7.3.4 Measurement Procedure and Data	22
	7.4 20dB Bandwidth	
	7.4.1 E.U.T. Operation	
	7.4.2 Test Mode Description	
	7.4.3 Test Setup Diagram7.4.4 Measurement Procedure and Data	
	7.4.4 Measurement Procedure and Data 7.5 Restricted Bands	
	7.5.1 E.U.T. Operation	



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SZEMC-TRF-01 Rev. A/0 Aug01,2022 Report No.: SZCR230500144001 Page: 5 of 29 7.5.2 7.5.3 7.5.4 8 9



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 6 of 29

4 General Information

4.1 Details of E.U.T.

Power supply:	Adapter:		
	Model: PD-014		
	Input: AC 100-240V 50/60Hz 0.8A		
	PD 3.0 Output: DC 5V/3A,9V/3A,15V/2A,20V/1.5A		
	Total Output:38W (max)		
	Wireless Charging:		
	Top Output:15W		
	Buttom Output:5W		
Cable(s):	Type C cable:150cm unshielded		
Organization from up on u	112.2kHz to 147kHz(5W bottom)		
Operation frequency:	337.6KHz-385.6KHz(Top)		
Modulation type:	Load modulation		
Antenna type:	Loop Antenna		

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	HUAWEI	LYA-AL00	REF. No.SEA16C00
iPhone 13	Apple	MLE03ZA/A	REF. No.SEA16Q01
Earphone	Apple	A2566	REF. No.SEA10D00
E-loading	SGS	N/A	REF. No.SEA42A00

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	± 3.1dB
Radiated Emissions (30MHz-1GHz)	\pm 6.0dB for 3m; \pm 5.0dB for 10m
Radiated Emissions (9kHz-30MHz)	± 3.6dB
20dB Bandwidth	± 0.3%
Restricted Bands	± 0.3%

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 7 of 29

4.4 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057. Tel: +86 755 2601 2053 Fax: +86 755 2671 0594 No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC – Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 8 of 29

5 **Equipment List**

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023-03-20	2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2022-07-08	2023-07-07
LISN	Rohde&Schwarz	ENV216	SEM007-01	2022-09-20	2023-09-19
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2022-10-20	2023-10-19
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2021-10-28	2023-10-27
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2023-03-31	2024-03-30
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2022-07-08	2023-07-07

Radiated Emissions (9kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26	
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2022-10-20	2023-10-19	
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2021-10-28	2023-10-27	
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2023-03-31	2024-03-30	
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM029-01	2022-07-08	2023-07-07	



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 9 of 29

20dB Bandwidth								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
DC Power Supply	Zhao Xin	PS-305D	SEM011-13	2022-09-21	2023-09-20			
Spectrum Analyzer	Rohde & Schwarz	FSP30	SEM004-06	2022-09-22	2023-09-21			
Measurement Software	TST PASS	ASS TST PASS N/A N/A		N/A	N/A			
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07			
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30			

Restricted Bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Zhao Xin	PS-305D	SEM011-13	2022-09-21	2023-09-20
Spectrum Analyzer	Rohde & Schwarz	FSP30	SEM004-06	2022-09-22	2023-09-21
Measurement Software	TST PASS	ST PASS TST PASS N/A N/A		N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

General used equipment							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03		
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03		
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22		



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 10 of 29

Radio Spectrum Technical Requirement 6

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna: The antenna is integrated on the main PCB and no consideration of replacement.

Refer to internal photos



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Report No.: SZCR230500144001 Page: 11 of 29

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

Test Requirement47 CFR Part 15, Subpart C 15.207Test Method:ANSI C63.10 (2013) Section 6.2

Limit:

	Conducted limit(dBµV)				
Frequency of emission(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
*Decreases with the logarithm of the frequency.					

7.1.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	23.5 °C	Humidity:	46.6 % RH	Atmospheric Pressure:	1010	mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charging mode_Keep the EUT charging (5W bottom)
Pre-scan	01	Charging mode_Keep the EUT charging (5W Top)
Pre-scan	02	Charging mode_Keep the EUT charging (7.5W Top)
Pre-scan	03	Charging mode_Keep the EUT charging (10W Top)
Pre-scan	04	Charging mode_Keep the EUT charging (15W Top)
Pre-scan	05	Charging mode_Keep the EUT charging (5W Top+5W bottom)
Pre-scan	06	Charging mode_Keep the EUT charging (7.5W Top+5W bottom)
Pre-scan	07	Charging mode_Keep the EUT charging (10W Top+5W bottom)
Final test	08	Charging mode_Keep the EUT charging (15W Top+5W bottom)



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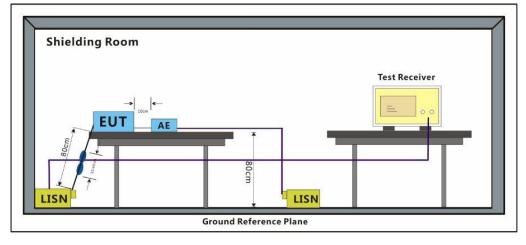
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 12 of 29

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 50hm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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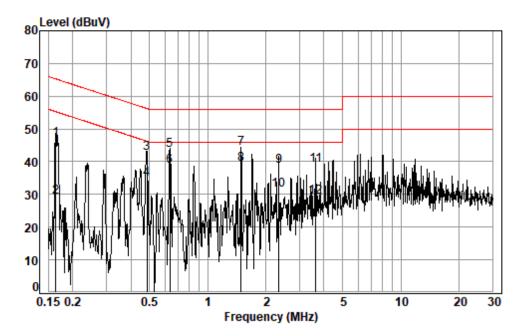
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 13 of 29



Test Mode: 08; Line: Live line

Site : Shielding Room Condition: Line Job No. : 01440AT Test mode: 08

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1633	0.03	9.76	37.04	46.83	65.30	-18.47	QP
2	0.1633	0.03	9.76	19.33	29.12	55.30	-26.18	Average
3	0.4837	0.05	9.76	32.76	42.57	56.27	-13.70	QP
4	0.4837	0.05	9.76	25.00	34.81	46.27	-11.46	Average
5	0.6372	0.06	9.77	33.62	43.45	56.00	-12.55	QP
6	0.6372	0.06	9.77	28.74	38.57	46.00	-7.43	Average
7*	1.4874	0.09	9.80	34.18	44.07	56.00	-11.93	QP
8 *	1.4874	0.09	9.80	29.20	39.09	46.00	-6.91	Average
9	2.3336	0.11	9.83	28.58	38.52	56.00	-17.48	QP
10	2.3336	0.11	9.83	21.52	31.46	46.00	-14.54	Average
11	3.6225	0.13	9.86	28.83	38.82	56.00	-17.18	QP
12	3.6225	0.13	9.86	19.08	29.07	46.00	-16.93	Average



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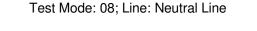
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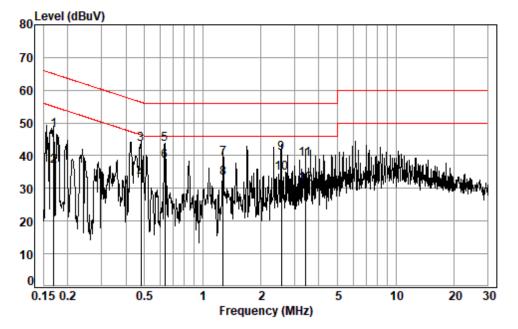
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 14 of 29





Site :	Shielding	Room
Condition:	Neutral	
Job No. :	01440AT	
Test mode:	08	

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1694	0.03	9.73	38.01	47.77	64.99	-17.22	QP
2	0.1694	0.03	9.73	27.02	36.78	54.99	-18.21	Average
3	0.4786	0.05	9.74	33.65	43.44	56.36	-12.92	QP
4	0.4786	0.05	9.74	23.18	32.97	46.36	-13.39	Average
5 *	0.6372	0.06	9.74	33.55	43.35	56.00	-12.65	QP
6*	0.6372	0.06	9.74	28.66	38.46	46.00	-7.54	Average
7	1.2756	0.08	9.77	29.50	39.35	56.00	-16.65	QP
8	1.2756	0.08	9.77	23.20	33.05	46.00	-12.95	Average
9	2.5535	0.12	9.81	30.78	40.71	56.00	-15.29	QP
10	2.5535	0.12	9.81	24.75	34.68	46.00	-11.32	Average
11	3.3994	0.13	9.85	28.90	38.88	56.00	-17.12	QP
12	3.3994	0.13	9.85	21.41	31.39	46.00	-14.61	Average



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 15 of 29

7.2 Radiated Emissions (30MHz-1GHz)

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.5
Measurement Distance:	10m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)			
30-88	100	3			
88-216	150	3			
216-960	200	3			
Above 960	500	3			
Remark: The emission limits shown in the above table are based on measurements employing a					

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector.

7.2.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	23.2 °C	Humidity:	50.5 % RH	Atmospheric Pressure:	1010	mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charging mode_Keep the EUT charging (5W bottom)
Pre-scan	01	Charging mode_Keep the EUT charging (5W Top)
Pre-scan	02	Charging mode_Keep the EUT charging (7.5W Top)
Pre-scan	03	Charging mode_Keep the EUT charging (10W Top)
Pre-scan	04	Charging mode_Keep the EUT charging (15W Top)
Pre-scan	05	Charging mode_Keep the EUT charging (5W Top+5W bottom)
Pre-scan	06	Charging mode_Keep the EUT charging (7.5W Top+5W bottom)
Pre-scan	07	Charging mode_Keep the EUT charging (10W Top+5W bottom)
Final test	08	Charging mode_Keep the EUT charging (15W Top+5W bottom)



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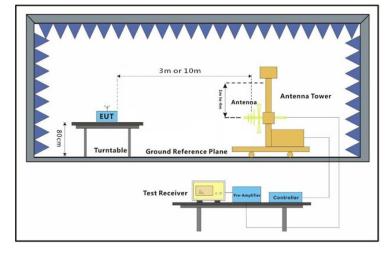
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 16 of 29

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case.

i. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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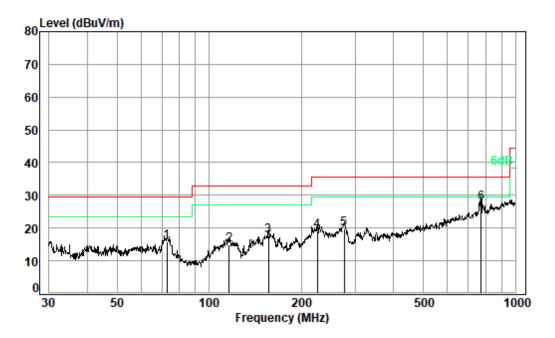
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 17 of 29

Test Mode: 08; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 01440AT Test Mode: 08

MHz dBuV dB/m dB dB dBuV/m dBuV/m dB 1 72.847 32.68 14.64 0.76 32.40 15.68 29.50 -13.82 QP 2 116.132 31.73 14.56 0.89 32.40 14.78 33.00 -18.22 QP 3 156.458 31.20 17.74 1.03 32.40 17.57 33.00 -15.43 QP 4 225.308 34.83 15.50 1.25 32.40 19.18 35.60 -16.42 QP 5 276.124 33.72 17.19 1.38 32.40 19.89 35.60 -15.71 QP 6 pp 774.158 31.72 26.01 2.29 32.35 27.67 35.60 -7.93 QP		Freq		Ant Factor						Remark
2 116.132 31.73 14.56 0.89 32.40 14.78 33.00 -18.22 QP 3 156.458 31.20 17.74 1.03 32.40 17.57 33.00 -15.43 QP 4 225.308 34.83 15.50 1.25 32.40 19.18 35.60 -16.42 QP 5 276.124 33.72 17.19 1.38 32.40 19.89 35.60 -15.71 QP		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
3 156.458 31.20 17.74 1.03 32.40 17.57 33.00 -15.43 QP 4 225.308 34.83 15.50 1.25 32.40 19.18 35.60 -16.42 QP 5 276.124 33.72 17.19 1.38 32.40 19.89 35.60 -15.71 QP	1	72.847	32.68	14.64	0.76	32.40	15.68	29.50	-13.82	QP
4 225.308 34.83 15.50 1.25 32.40 19.18 35.60 -16.42 QP 5 276.124 33.72 17.19 1.38 32.40 19.89 35.60 -15.71 QP	2	116.132	31.73	14.56	0.89	32.40	14.78	33.00	-18.22	QP
5 276.124 33.72 17.19 1.38 32.40 19.89 35.60 -15.71 QP	3	156.458	31.20	17.74	1.03	32.40	17.57	33.00	-15.43	QP
	4	225.308	34.83	15.50	1.25	32.40	19.18	35.60	-16.42	QP
6 pp 774.158 31.72 26.01 2.29 32.35 27.67 35.60 -7.93 QP	5	276.124	33.72	17.19	1.38	32.40	19.89	35.60	-15.71	QP
	6 pp	774.158	31.72	26.01	2.29	32.35	27.67	35.60	-7.93	QP



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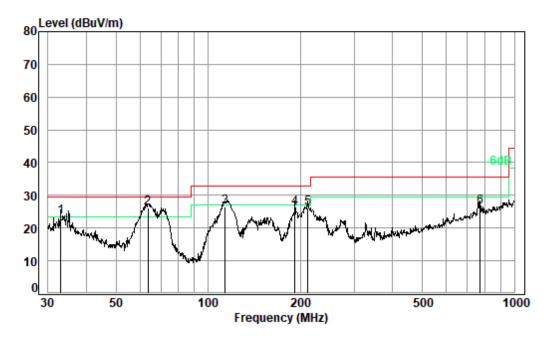
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 18 of 29

Test Mode: 08; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 01440AT

Test Mode: 08

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_									
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	32.979	38.95	16.28	0.66	32.46	23.43	29.50	-6.07	QP
2 pp	63.536	41.35	16.46	0.68	32.40	26.09	29.50	-3.41	QP
3	113.714	43.37	14.47	0.88	32.40	26.32	33.00	-6.68	QP
4	191.745	42.12	15.26	1.16	32.40	26.14	33.00	-6.86	QP
5	211.527	42.65	14.81	1.22	32.40	26.28	33.00	-6.72	QP
	774.158								-
									•



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 19 of 29

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L10: Level @ 10m distance. Unit: uV/m;

D3: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
72.847	15.68	6.08	20.27	26.14	40.00	-13.86	Н
116.132	14.78	5.48	18.28	25.24	43.50	-18.26	Н
156.458	17.57	7.56	25.20	28.03	43.50	-15.47	Н
225.308	19.18	9.10	30.33	29.64	46.00	-16.36	Н
276.124	19.89	9.87	32.91	30.35	46.00	-15.65	Н
774.158	27.67	24.18	80.61	38.13	46.00	-787	Н
32.979	23.43	14.84	49.47	33.89	40.00	-6.11	V
63.536	26.09	20.16	67.20	36.55	40.00	-3.45	V
113.714	26.32	20.70	69.00	36.78	43.50	-6.72	V
191.745	26.14	20.28	67.59	36.60	43.50	-6.90	V
211.527	26.28	20.61	68.69	36.74	46.00	-9.26	V
774.158	26.44	20.99	69.96	36.90	46.00	-9.10	V



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 20 of 29

7.3 Radiated Emissions (9kHz-30MHz)

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.4
Measurement Distance:	3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
CISPR quasi-peak de emission limits in these the peak field strength	limits shown in the above table are ba tector except for the frequency band three bands are based on measureme of any emission shall not exceed the than 20 dB under any condition of mo	s 9-90kHz, 110-490kHz. Radiated ints employing an average detector, maximum permitted average limits

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than $\lambda/2\pi$ and the limit distance is greater than $\lambda/2\pi$, the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the $\lambda/2\pi$ distance, and at a 20 dB/decade of distance rate beyond $\lambda/2\pi$. This shall be accomplished using Equation (2):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(near field)}/d_{(10m)}\} + 20\log\{d_{(30/300m)}/d_{(near field)}\}$$
(2)

If the single point measured is at a distance greater than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(10m)} = FS_{(30/300m)} + 20\log\{d_{(30/300m)}/d_{(10m)}\}$$
(3)

If both the single point and the limit distance are equal to or closer to the EUT than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(30/300m)}/d_{(10m)}\}$$
(4)

Remark:

 $d_{\text{near field}} = 47.77 \ / \ f_{\text{MHz}}$ where f_{MHz} is the frequency of the emission being measured in MHz.



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 21 of 29

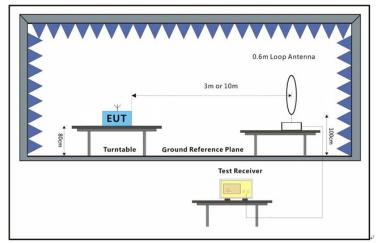
7.3.1 E.U.T. Operation

Operating Enviro	onment:				
Temperature:	23.2 °C	Humidity:	50.5 % RH	Atmospheric Pressure: 1010	mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charging mode_Keep the EUT charging (5W bottom)
Pre-scan	01	Charging mode_Keep the EUT charging (5W Top)
Pre-scan	02	Charging mode_Keep the EUT charging (7.5W Top)
Pre-scan	03	Charging mode_Keep the EUT charging (10W Top)
Pre-scan	04	Charging mode_Keep the EUT charging (15W Top)
Pre-scan	05	Charging mode_Keep the EUT charging (5W Top+5W bottom)
Pre-scan	06	Charging mode_Keep the EUT charging (7.5W Top+5W bottom)
Pre-scan	07	Charging mode_Keep the EUT charging (10W Top+5W bottom)
Final test	08	Charging mode_Keep the EUT charging (15W Top+5W bottom)

7.3.3 Test Setup Diagram





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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 22 of 29

7.3.4 Measurement Procedure and Data

a. All radiated emission measurements in terms of magnetic field strength shall be performed with a shielded loop antenna.

b. For all radiated emission measurements in terms of magnetic field strength, the loop antenna were placed such that:

i. its centre shall be at 1.3 m height above the ground plane;

ii. the projection of its centre onto the ground plane shall be at the specified measurement distance from the projection on the ground plane of the closest point on the boundary of the equipment under test (EUT); and

iii. measurements shall be performed with the loop antenna placed vertically, in turn, in two polarizations (the measurement axis specified below is the line segment connecting the projections on the ground plane of the centre of the loop antenna and the centre of the EUT arrangement):

· coaxial (loop plane perpendicular to the ground plane and to the measurement axis); and

· coplanar (loop plane perpendicular to the ground plane and coplanar with the measurement axis).



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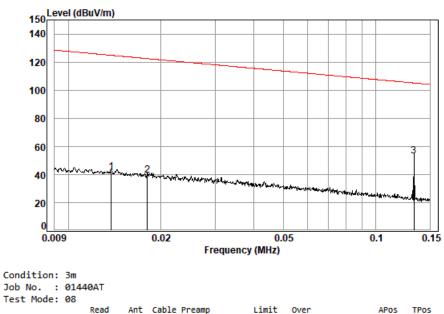
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Report No.: SZCR230500144001 Page: 23 of 29



	Freq		Factor			Level	Line	Limit	Remark		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		CM	deg
1	0.014	73.89	16.53	0.31	48.86	41.87	124.83	-82.96	Average	130	360
2	0.018	73.41	14.53	0.31	48.92	39.33	122.46	-83.13	Average	130	360
3 pp	0.133	92.36	10.43	0.29	49.98	53.10	105.11	-52.01	Average	130	360



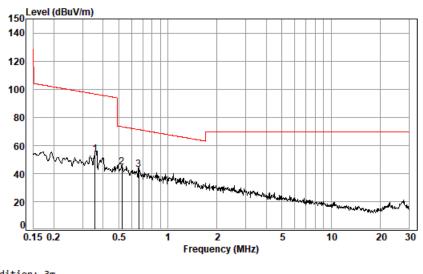
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 24 of 29



Condition: 3m Job No. : 01440AT Т

Test	Mode: 08										
	Freq	Read Level	Ant Factor		Preamp Factor		Limit Line			APos	TPOS
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		cm	deg
1 a	v 0.358	75.61	10.32	0.33	32.50	53.76	96.53	-42.77	Average	130	360
2	0.524	66.14	10.31	0.35	32.50	44.30	73.22	-28.92	QP	130	360
Зр	p 0.665	64.41	10.29	0.37	32.50	42.57	71.15	-28.58	QP	130	360



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 25 of 29

7.4 20dB Bandwidth

Test Requirement	47 CFR Part 15, Subpart C 15.215
Test Method:	ANSI C63.10 (2013) Section 6.9.2

Limit: For report reference only

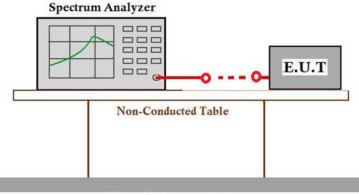
7.4.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	27.7 °C	Humidity:	47.4 % RH	Atmospheric Pressure: 1	005	mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description	
Final test	00	Charging mode_Keep the EUT charging (5W bottom)	
Pre-scan	01	Charging mode_Keep the EUT charging (5W Top)	
Pre-scan	02	Charging mode_Keep the EUT charging (7.5W Top)	
Pre-scan	03	Charging mode_Keep the EUT charging (10W Top)	
Final test	04	Charging mode_Keep the EUT charging (15W Top)	
Pre-scan	05	Charging mode_Keep the EUT charging (5W Top+5W bottom)	
Pre-scan	06	Charging mode_Keep the EUT charging (7.5W Top+5W bottom)	
Pre-scan	07	Charging mode_Keep the EUT charging (10W Top+5W bottom)	
Pre-scan	08	Charging mode_Keep the EUT charging (15W Top+5W bottom)	

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data



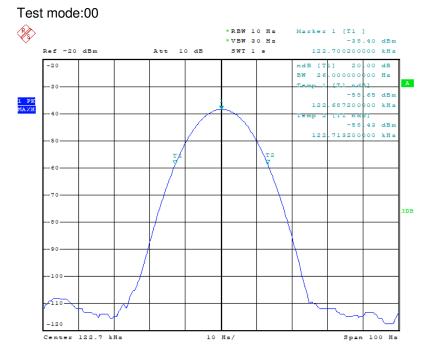
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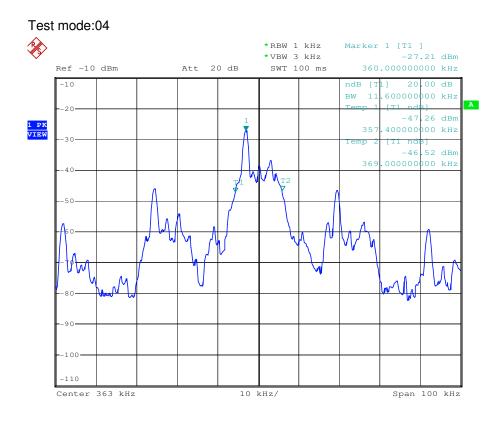
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500144001 Page: 27 of 29

7.5 Restricted Bands

Test Requirement	47 CFR Part 15, Subpart C 15.205
Test Method:	ANSI C63.10 (2013) Section 6.10.5

Limit:

The fundamental wave could not fall in the restricted band 90KHz-110KHz

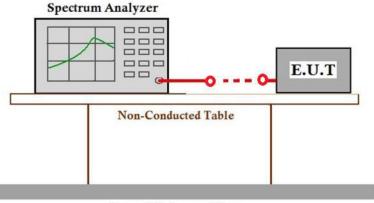
7.5.1 E.U.T. Operation

Operating Environment:									
Temperature:	27.7 °C	Humidity:	47.4 % RH	Atmospheric Pressure: 10)5 mbar				

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description	
Final test	00	Charging mode_Keep the EUT charging (5W bottom)	
Pre-scan	01	Charging mode_Keep the EUT charging (5W Top)	
Pre-scan	02	Charging mode_Keep the EUT charging (7.5W Top)	
Pre-scan	03	Charging mode_Keep the EUT charging (10W Top)	
Final test	04	Charging mode_Keep the EUT charging (15W Top)	
Pre-scan	05	Charging mode_Keep the EUT charging (5W Top+5W bottom)	
Pre-scan	06	Charging mode_Keep the EUT charging (7.5W Top+5W bottom)	
Pre-scan	07	Charging mode_Keep the EUT charging (10W Top+5W bottom)	
Pre-scan	08	Charging mode_Keep the EUT charging (15W Top+5W bottom)	

7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data



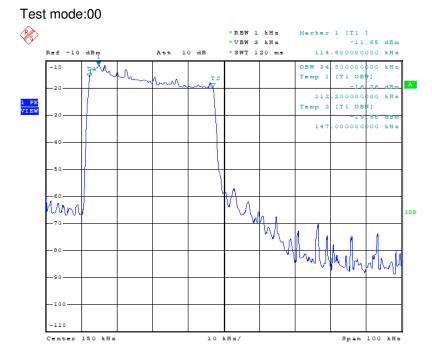
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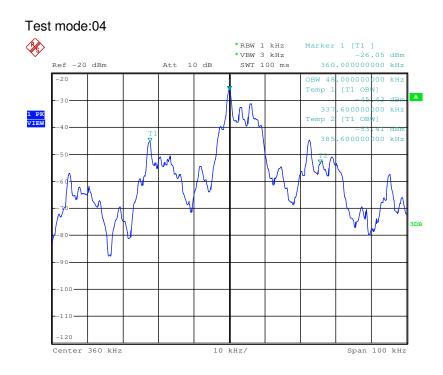
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Report No.: SZCR230500144001 Page: 29 of 29

Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2305001440AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2305001440AT

- End of the Report -



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