

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220600025003

Page: 1 of 37

TEST REPORT

Application No.: FYCR2206000250AT
Applicant: INNOVATIVE TECHNOLOGY ELECTRONICS LLC
Address of Applicant: 3513 Brighton Blvd Suite 570 Denver Colorado 80216 United States
Manufacturer: Shenzhen Antexin Technology Co., Ltd.
Address of Manufacturer: 4th Floor Bldg 2, Fuxingda Industrial Park, Lanzhu East Road, Longtian St, Pingshan District Shenzhen, Guangdong, China 518118
Factory: Shenzhen Antexin Technology Co., Ltd.
Address of Factory: 4th Floor Bldg 2, Fuxingda Industrial Park, Lanzhu East Road, Longtian St, Pingshan District Shenzhen, Guangdong, China 518118
Equipment Under Test (EUT):
EUT Name: Portable Bluetooth Speaker
Model No.: VPB-400-BLK, VPB-400-SLV, VPB-400-BLK-INT, VPB-400-SLV-INT, VPB-400xxxx (where "x" can be 0-9, A-Z, "-" or blank and means color code of unit), VPB-400xxxxyyyy (where "x" can be 0-9, A-Z, "-" or blank and means color code of unit; and where "y" can be A-Z and means Market Code)
♣
Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
♣
Trade Mark: **VICTROLA**
FCC ID: 2AFHW-VPB400
Standard(s) : 47 CFR Part 15, Subpart C
Date of Receipt: 2022-06-24
Date of Test: 2022-07-15 to 2022-09-01
Date of Issue: 2022-09-14

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Winkey Wang
EMC Technical Manager



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

Report No.: FYCR220600025003

Page: 2 of 37

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-09-14		Original

Authorized for issue by:				
		Tree Zhan		
		Tree Zhan/Project Engineer		
		Winkey Wang		
		Winkey Wang/Reviewer		



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

Report No.: FYCR220600025003

Page: 3 of 37

2 Test Summary

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
20dB Bandwidth	47 CFR Part 15, Subpart C	ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart C 15.215	Pass
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
Restricted Bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205	Pass
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2013) Section 6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Declaration of EUT Family Grouping:

Model No.: VPB-400-BLK, VPB-400-SLV, VPB-400-BLK-INT, VPB-400-SLV-INT, VPB-400xxxx (where "x" can be 0-9, A-Z, "-" or blank and means color code of unit), VPB-400xxxxyyy (where "x" can be 0-9, A-Z, "-" or blank and means color code of unit; and where "y" can be A-Z and means Market Code)

Only the model VPB-400-BLK was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on the color, model No., brand name for trading purpose.



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3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	6
4.1 DETAILS OF E.U.T.	6
4.2 DESCRIPTION OF SUPPORT UNITS	6
4.3 MEASUREMENT UNCERTAINTY	6
4.4 TEST LOCATION	7
4.5 TEST FACILITY	7
4.6 DEVIATION FROM STANDARDS	7
4.7 ABNORMALITIES FROM STANDARD CONDITIONS	7
5 EQUIPMENT LIST	8
6 RADIO SPECTRUM TECHNICAL REQUIREMENT	10
6.1 ANTENNA REQUIREMENT	10
6.1.1 Test Requirement:	10
6.1.2 Conclusion	10
7 RADIO SPECTRUM MATTER TEST RESULTS	11
7.1 20dB BANDWIDTH	11
7.1.1 E.U.T. Operation	11
7.1.2 Test Mode Description	11
7.1.3 Test Setup Diagram	11
7.1.4 Measurement Procedure and Data	12
7.2 CONDUCTED EMISSIONS AT AC MAINS POWER PORT (150kHz-30MHz)	13
7.2.1 E.U.T. Operation	13
7.2.2 Test Mode Description	13
7.2.3 Test Setup Diagram	13
7.2.4 Measurement Procedure and Data	14
7.3 RESTRICTED BANDS	21
7.3.1 E.U.T. Operation	21
7.3.2 Test Mode Description	21
7.3.3 Test Setup Diagram	21
7.3.4 Measurement Procedure and Data	22
7.4 RADIATED EMISSIONS (9kHz-30MHz)	23
7.4.1 E.U.T. Operation	24
7.4.2 Test Mode Description	24
7.4.3 Test Setup Diagram	24
7.4.4 Measurement Procedure and Data	24
7.5 RADIATED EMISSIONS (30MHz-1GHz)	29
7.5.1 E.U.T. Operation	29



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220600025003

Page: 5 of 37

7.5.2	Test Mode Description	29
7.5.3	Test Setup Diagram	30
7.5.4	Measurement Procedure and Data	30
8	TEST SETUP PHOTO	37
9	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	37



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

Report No.: FYCR220600025003

Page: 6 of 37

4 General Information

4.1 Details of E.U.T.

Power supply:	Rechargeable battery DC7.4V,4400mAh Adapter Model: GKYZB0200050US Input:AC100-240V 50/60Hz 0.5A MAX Output: DC5V 2000mA
Cable(s):	Type-C USB cable:30cm unshielded
Operation frequency:	111.8kHz to 145.2kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

Remark: The information in this section is provided by the applicant or manufacturer, CCS 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	Nexus	MRA58K	REF. No.SEA16P00
iPhone 8	Apple	A1863	REF. No.SEA16J00
Mobile Phone	SAMSUNG	SM-G9810	REF. No.SEA16K00
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA16J00
E-loading	SGS	N/A	REF. No.SEA42A00

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
20dB Bandwidth	$\pm 0.3\%$
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	$\pm 2.1 \text{ dB}$ (9kHz to 30MHz)
Restricted Bands	$\pm 0.3\%$
Radiated Emissions (9kHz-30MHz)	$\pm 2.7\text{dB}$
Radiated Emissions (30MHz-1GHz)	$\pm 5.6\text{dB}$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (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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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220600025003

Page: 7 of 37

4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 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. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

• FCC –Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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

Report No.: FYCR220600025003

Page: 8 of 37

5 Equipment List

20dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Measurement Software	TST PASS	V2.0	N/A	N/A	N/A

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2021/7/13	2024/7/12
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2022/7/12	2023/7/11
Two-Line V-Network	Rohde & Schwarz	ENV216	SEM007-16	2022/7/12	2023/7/11
Two-Line V-Network	Rohde & Schwarz	ESH3-Z5	SEM007-22	2022/1/10	2023/1/9
Measurement Software	Audix	e3 V8.2014-6-27	N/A	N/A	N/A

Restricted Bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Measurement Software	TST PASS	V2.0	N/A	N/A	N/A

Radiated Emissions (9kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Measurement Software	Audix	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2022/7/12	2023/7/11



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

Report No.: FYCR220600025003

Page: 9 of 37

Low Noise Amplifier	CLAVIO	BDLNA-0118-352810	SEM005-05	2022/7/12	2023/7/11
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2022/7/12	2023/7/11
Measurement Software	Audix	e3 V8.2014-6-27	N/A	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022-07-12	2023-07-11
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022-07-12	2023-07-11
Barometer	DUMAI	DYM3	SEM002-24	2022-07-12	2023-07-11



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6 Radio Spectrum Technical Requirement

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 permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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.

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

7.1 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

7.1.1 E.U.T. Operation

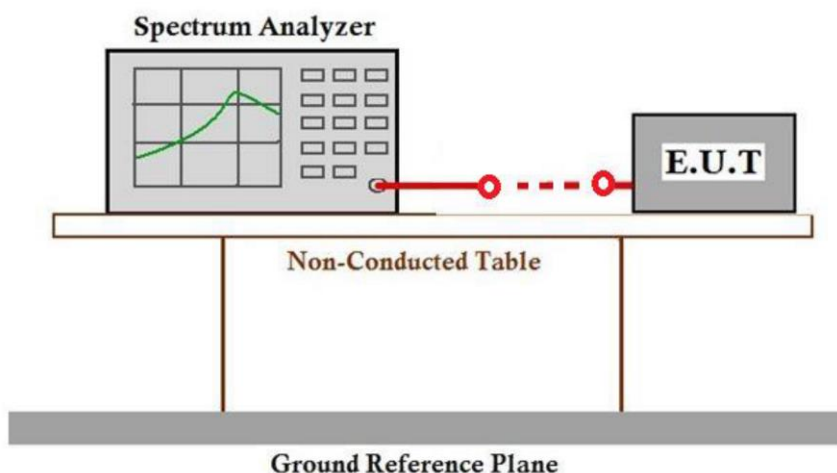
Operating Environment:

Temperature: 21.5 °C Humidity: 54.3 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	08	Charge mode_Keep the EUT charging(5W)
Pre-scan	09	Charge mode_Keep the EUT charging(7.5W)
Final test	10	Charge mode_Keep the EUT charging(10W)

7.1.3 Test Setup Diagram



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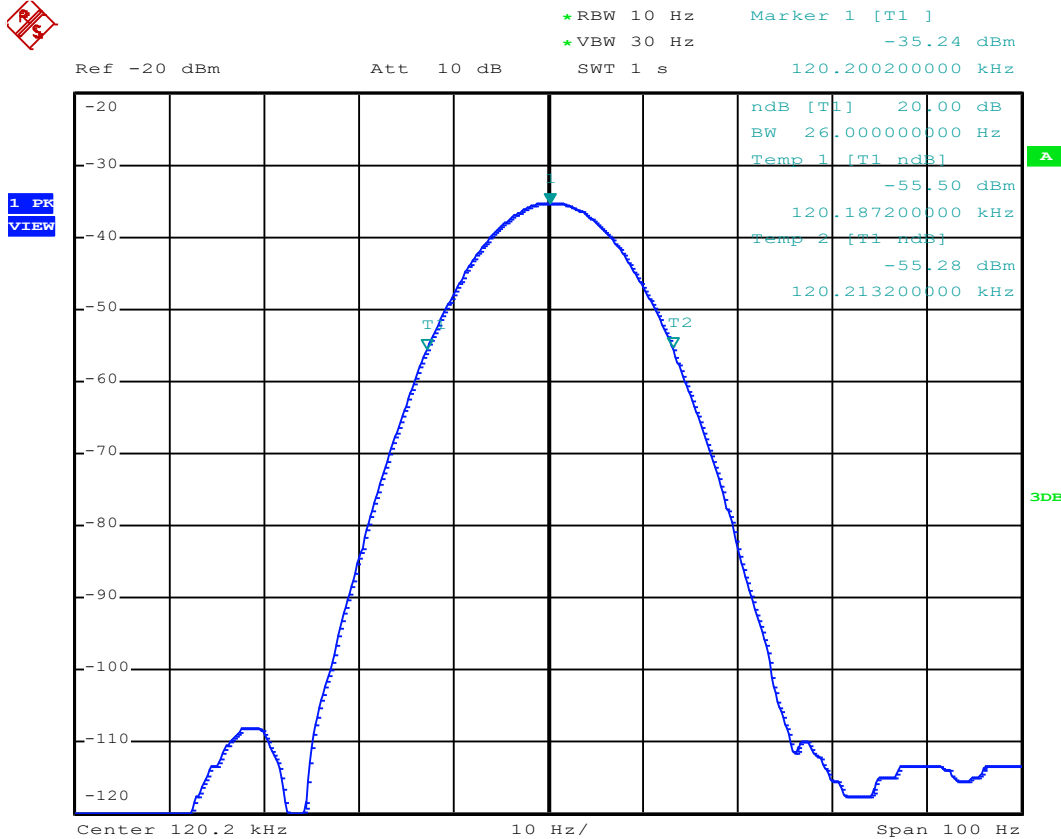
Report No.: FYCR220600025003

Page: 12 of 37

7.1.4 Measurement Procedure and Data

Mode 10:

Test Channel	Bandwidth	Limit	Verdict
120.2KHz	26.0Hz	N/A	PASS



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

Report No.: FYCR220600025003

Page: 13 of 37

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

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

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

*Decreases with the logarithm of the frequency.
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C

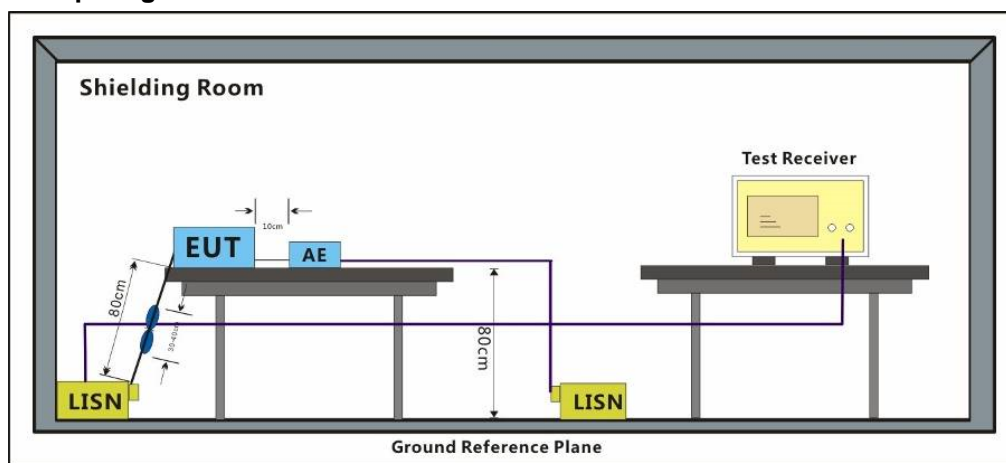
Humidity: 52.6 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	Charge mode_Keep the EUT charging(5W)
Final test	09	Charge mode_Keep the EUT charging(7.5W)
Final test	10	Charge mode_Keep the EUT charging(10W)

7.2.3 Test Setup Diagram



Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220600025003

Page: 14 of 37

7.2.4 Measurement Procedure and Data

- 1) 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 + 5ohm 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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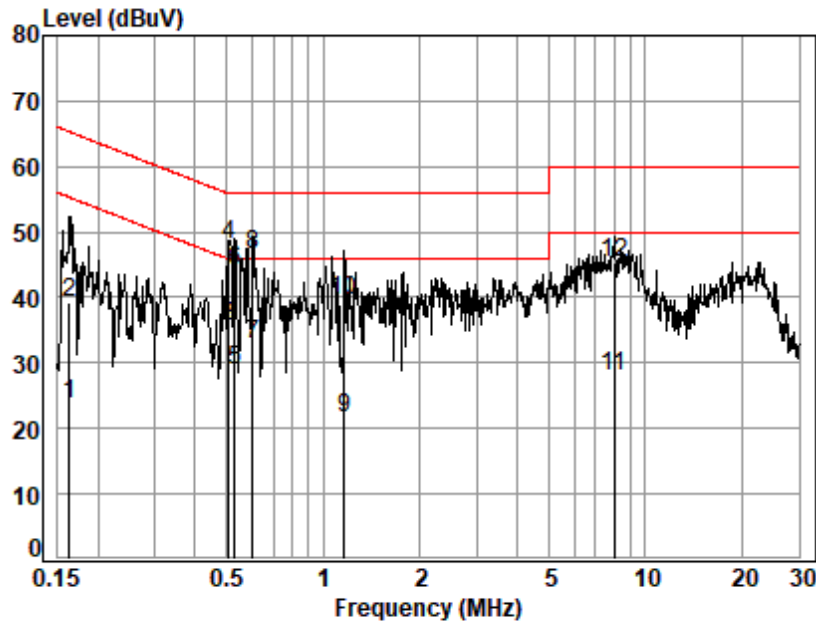
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220600025003

Page: 15 of 37

Test Mode: 08; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00250AT
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1633	0.02	0.25	23.50	23.77	55.30	-31.53 Average
2	0.1633	0.02	0.25	39.00	39.27	65.30	-26.03 QP
3	0.5101	0.01	0.27	35.20	35.48	46.00	-10.52 Average
4	0.5101	0.01	0.27	47.90	48.18	56.00	-7.82 QP
5	0.5322	0.02	0.26	28.70	28.98	46.00	-17.02 Average
6	0.5322	0.02	0.26	43.70	43.98	56.00	-12.02 QP
7	0.6043	0.05	0.24	32.70	32.99	46.00	-13.01 Average
8	0.6043	0.05	0.24	46.10	46.39	56.00	-9.61 QP
9	1.1657	0.03	0.19	21.29	21.51	46.00	-24.49 Average
10	1.1657	0.03	0.19	39.19	39.41	56.00	-16.59 QP
11	8.0198	0.04	0.12	27.90	28.06	50.00	-21.94 Average
12	8.0198	0.04	0.12	45.10	45.26	60.00	-14.74 QP



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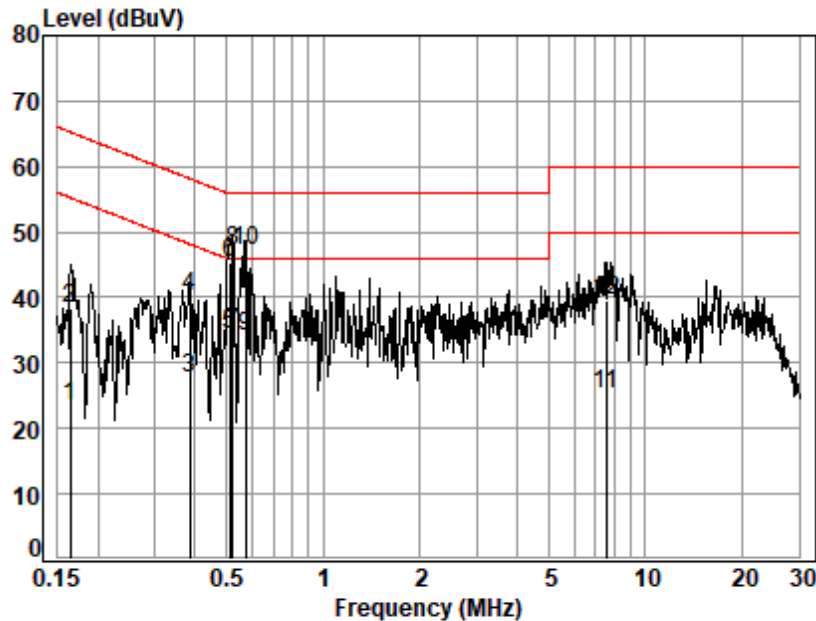
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220600025003

Page: 16 of 37

Test Mode: 08; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00250AT
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1641	0.02	0.30	23.10	23.42	55.25	-31.83 Average
2	0.1641	0.02	0.30	38.00	38.32	65.25	-26.93 QP
3	0.3852	0.03	0.28	27.50	27.81	48.17	-20.36 Average
4	0.3852	0.03	0.28	39.80	40.11	58.17	-18.06 QP
5	0.5128	0.02	0.26	34.20	34.48	46.00	-11.52 Average
6	0.5128	0.02	0.26	45.00	45.28	56.00	-10.72 QP
7	0.5238	0.02	0.25	34.41	34.68	46.00	-11.32 Average
8	0.5238	0.02	0.25	47.01	47.28	56.00	-8.72 QP
9	0.5731	0.04	0.23	33.70	33.97	46.00	-12.03 Average
10	0.5731	0.04	0.23	46.90	47.17	56.00	-8.83 QP
11	7.5658	0.04	0.16	25.20	25.40	50.00	-24.60 Average
12	7.5658	0.04	0.16	39.40	39.60	60.00	-20.40 QP



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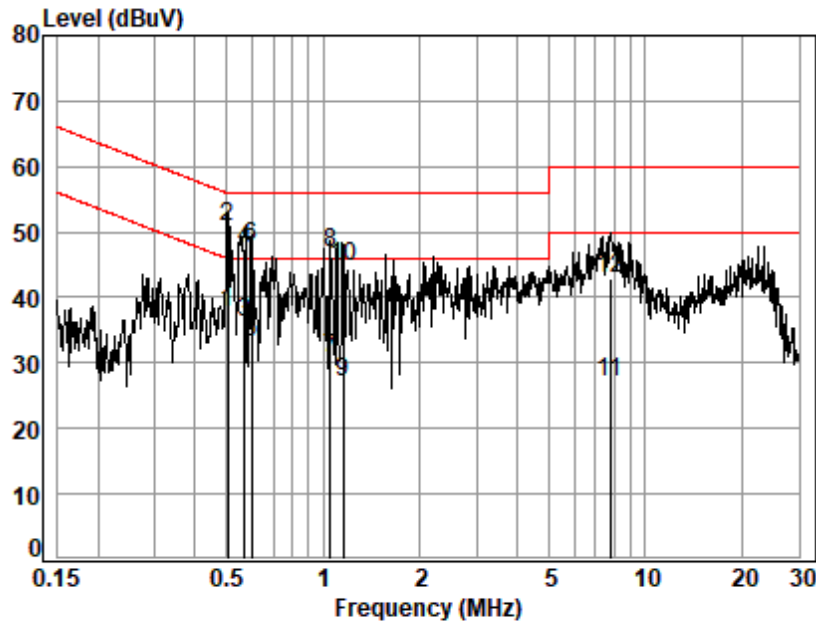
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220600025003

Page: 17 of 37

Test Mode: 09; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00250AT
Test mode: 09

	Freq	Cable Loss	LISN Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.5047	0.01	0.27	37.50	37.78	46.00	-8.22 Average
2	0.5047	0.01	0.27	50.60	50.88	56.00	-5.12 QP
3	0.5701	0.04	0.25	36.00	36.29	46.00	-9.71 Average
4	0.5701	0.04	0.25	47.30	47.59	56.00	-8.41 QP
5	0.5979	0.05	0.24	32.90	33.19	46.00	-12.81 Average
6	0.5979	0.05	0.24	47.50	47.79	56.00	-8.21 QP
7	1.0541	0.03	0.19	30.40	30.62	46.00	-15.38 Average
8	1.0541	0.03	0.19	46.70	46.92	56.00	-9.08 QP
9	1.1534	0.03	0.19	26.99	27.21	46.00	-18.79 Average
10	1.1534	0.03	0.19	44.59	44.81	56.00	-11.19 QP
11	7.7689	0.04	0.12	26.90	27.06	50.00	-22.94 Average
12	7.7689	0.04	0.12	42.70	42.86	60.00	-17.14 QP



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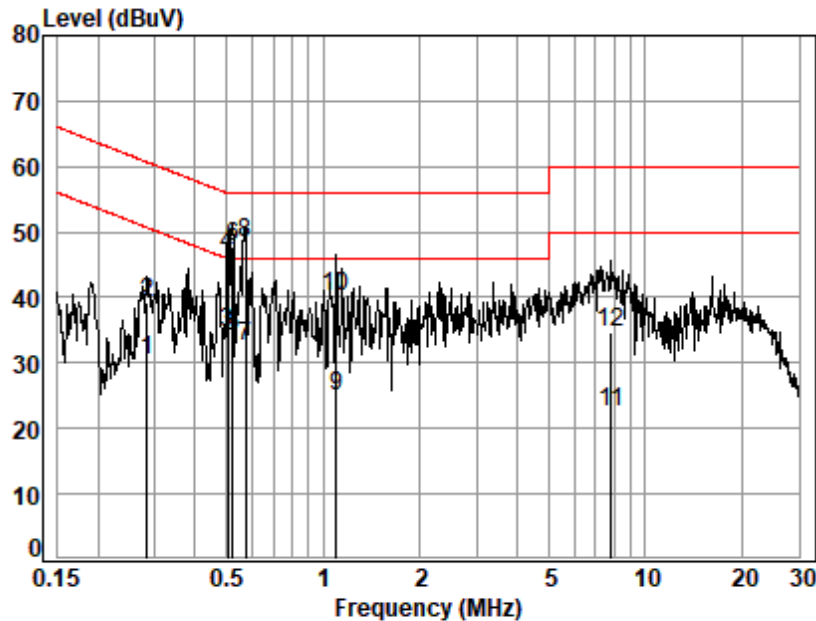
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220600025003

Page: 18 of 37

Test Mode: 09; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00250AT
Test mode: 09

	Freq	Cable Loss	LISN Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.2848	0.03	0.28	30.00	30.31	50.68	-20.37 Average
2	0.2848	0.03	0.28	38.80	39.11	60.68	-21.57 QP
3	0.5047	0.01	0.27	34.30	34.58	46.00	-11.42 Average
4	0.5047	0.01	0.27	46.20	46.48	56.00	-9.52 QP
5	0.5238	0.02	0.25	33.71	33.98	46.00	-12.02 Average
6	0.5238	0.02	0.25	47.41	47.68	56.00	-8.32 QP
7	0.5731	0.04	0.23	32.20	32.47	46.00	-13.53 Average
8	0.5731	0.04	0.23	48.00	48.27	56.00	-7.73 QP
9	1.0997	0.03	0.07	24.90	25.00	46.00	-21.00 Average
10	1.0997	0.03	0.07	40.00	40.10	56.00	-15.90 QP
11	7.8516	0.04	0.16	22.30	22.50	50.00	-27.50 Average
12	7.8516	0.04	0.16	34.50	34.70	60.00	-25.30 QP



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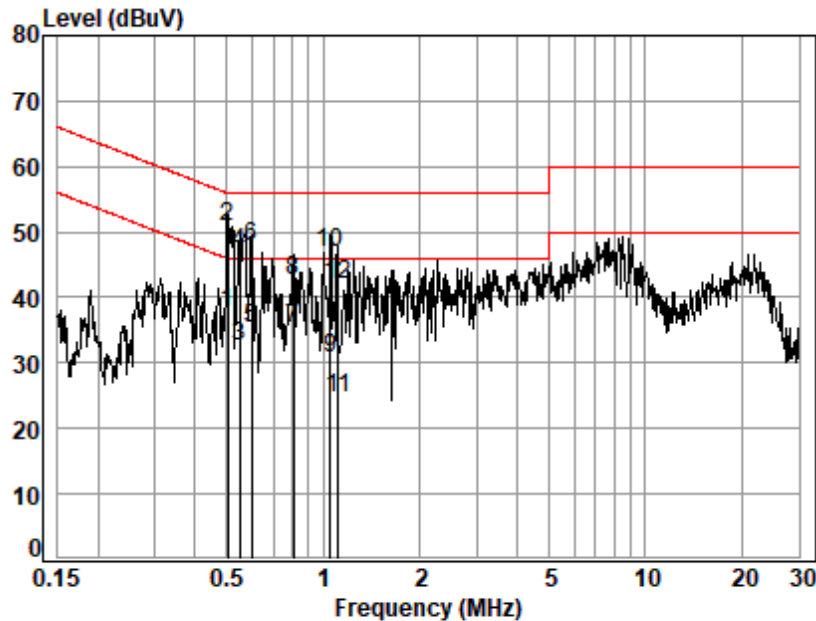
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220600025003

Page: 19 of 37

Test Mode: 10; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00250AT
Test mode: 10

	Cable	LISN	Read	Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.5047	0.01	0.27	37.50	37.78	46.00 -8.22 Average
2	0.5047	0.01	0.27	50.60	50.88	56.00 -5.12 QP
3	0.5493	0.03	0.26	32.20	32.49	46.00 -13.51 Average
4	0.5493	0.03	0.26	46.60	46.89	56.00 -9.11 QP
5	0.5979	0.05	0.24	35.10	35.39	46.00 -10.61 Average
6	0.5979	0.05	0.24	47.50	47.79	56.00 -8.21 QP
7	0.8088	0.06	0.21	35.00	35.27	46.00 -10.73 Average
8	0.8088	0.06	0.21	42.40	42.67	56.00 -13.33 QP
9	1.0541	0.03	0.19	30.40	30.62	46.00 -15.38 Average
10	1.0541	0.03	0.19	46.70	46.92	56.00 -9.08 QP
11	1.1114	0.03	0.19	24.39	24.61	46.00 -21.39 Average
12	1.1114	0.03	0.19	41.89	42.11	56.00 -13.89 QP



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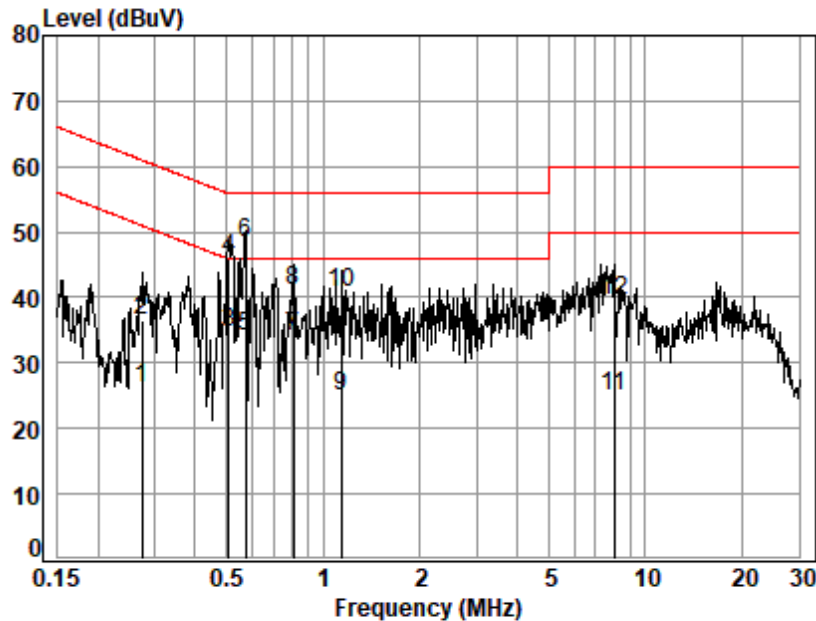
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220600025003

Page: 20 of 37

Test Mode: 10; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00250AT
Test mode: 10

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.2744	0.03	0.28	26.00	26.31	50.98	Average
2	0.2744	0.03	0.28	36.10	36.41	60.98	QP
3	0.5101	0.01	0.26	34.41	34.68	56.00	QP
4	0.5101	0.01	0.26	45.81	46.08	56.00	QP
5	0.5731	0.04	0.23	33.90	34.17	46.00	Average
6	0.5731	0.04	0.23	48.00	48.27	56.00	QP
7	0.8088	0.06	0.12	33.90	34.08	46.00	Average
8	0.8088	0.06	0.12	40.80	40.98	56.00	QP
9	1.1413	0.03	0.07	24.70	24.80	46.00	Average
10	1.1413	0.03	0.07	40.70	40.80	56.00	QP
11	8.0198	0.04	0.16	24.70	24.90	50.00	Average
12	8.0198	0.04	0.16	39.40	39.60	60.00	QP



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220600025003

Page: 21 of 37

7.3 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

7.3.1 E.U.T. Operation

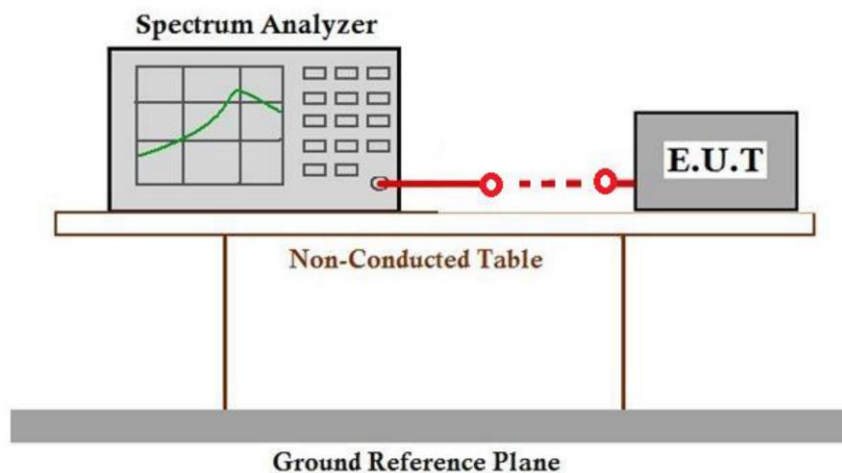
Operating Environment:

Temperature: 21.5 °C Humidity: 54.3 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	08	Charge mode_Keep the EUT charging(5W)
Pre-scan	09	Charge mode_Keep the EUT charging(7.5W)
Final test	10	Charge mode_Keep the EUT charging(10W)

7.3.3 Test Setup Diagram



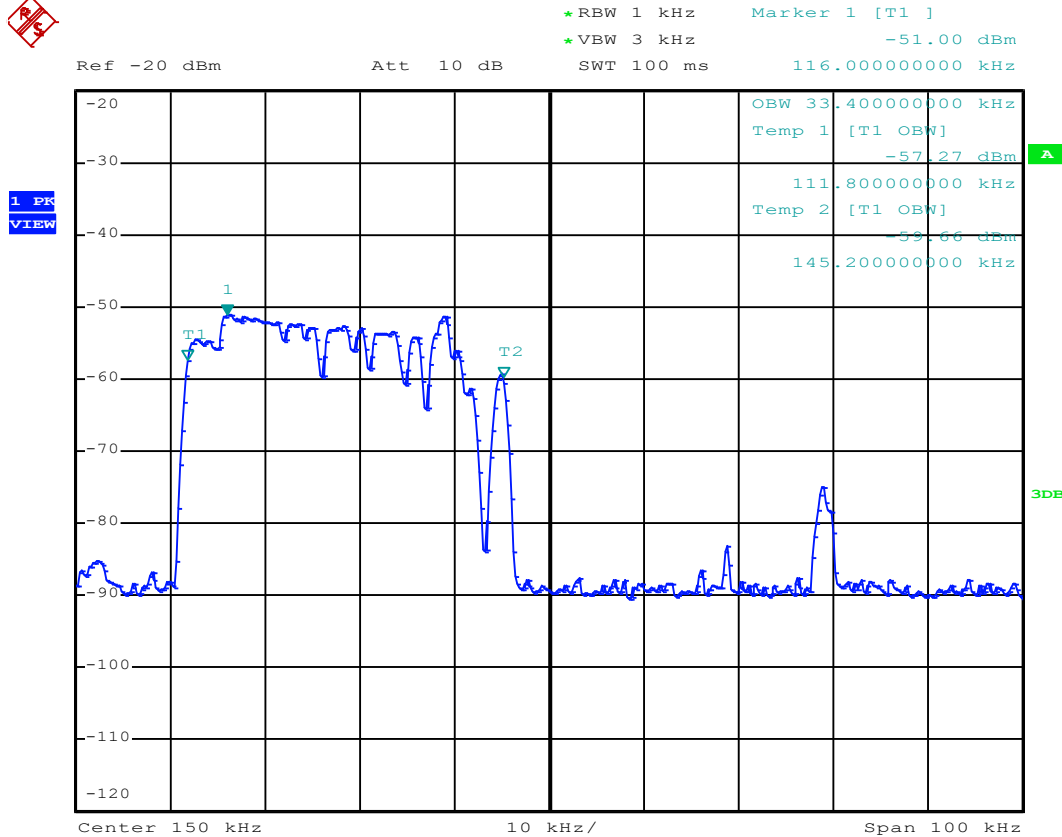
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7.3.4 Measurement Procedure and Data

Mode 10:



According the test data above, the fundamental wave is not fall in the restricted band 90KHz-110KHz, the field strength also meets the 15.209 requirement, please refer to clause 7.4.



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7.4 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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

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):

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

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):

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

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):

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

Remark:

$$d_{near\ field} = 47.77 / f_{MHz}$$

where f_{MHz} is the frequency of the emission being measured in MHz.



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220600025003

Page: 24 of 37

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

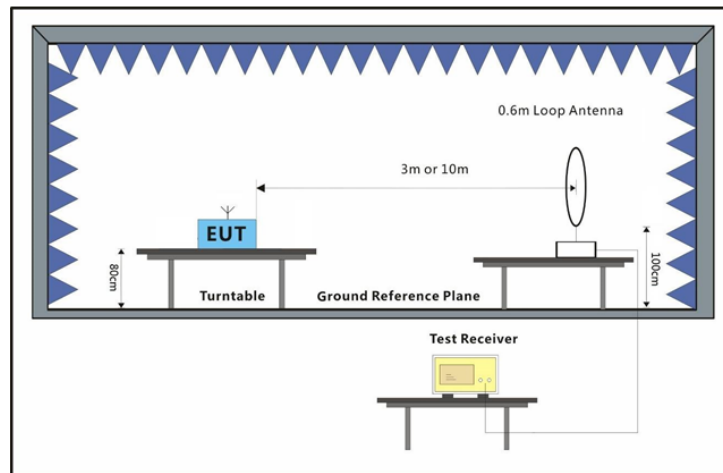
Humidity: 51.7 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	08	Charge mode_Keep the EUT charging(5W)
Pre-scan	09	Charge mode_Keep the EUT charging(7.5W)
Final test	10	Charge mode_Keep the EUT charging(10W)

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.

Remark: Both configuration which specified in the manual were pre-scan during the test, only the worst case data are shown in the test report. The worst case configuration please refer to the setup photos.



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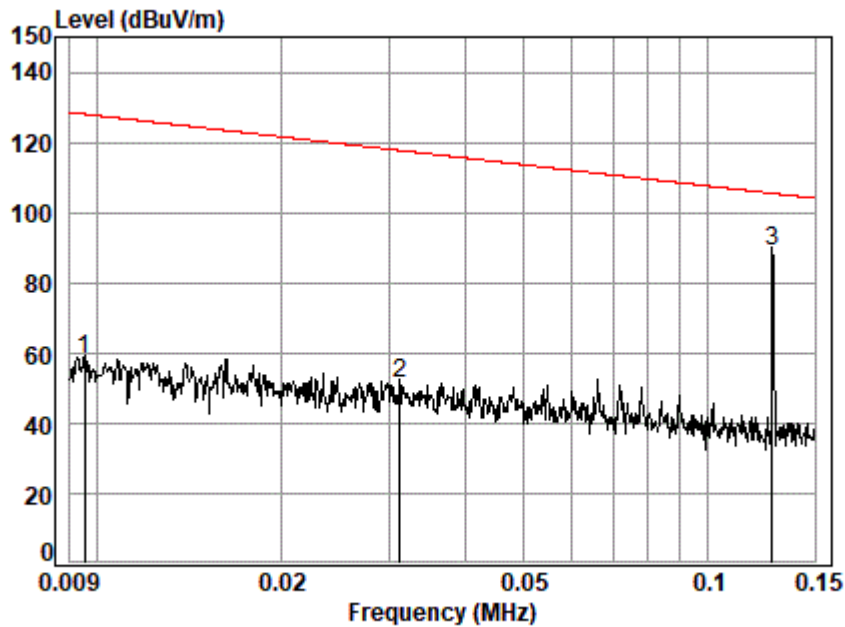
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220600025003

Page: 25 of 37

Test Mode: 10; Polarity: Coplanar



Condition: 3m

Job No. : 00250AT

Test Mode: 10

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	0.0095	0.29	18.60	31.18	70.69	58.40	128.03	-69.63 Average
2	0.0313	0.31	11.97	31.70	70.85	51.43	117.69	-66.26 Average
3	0.1278	0.33	10.43	31.79	110.13	89.10	105.48	-16.38 Average



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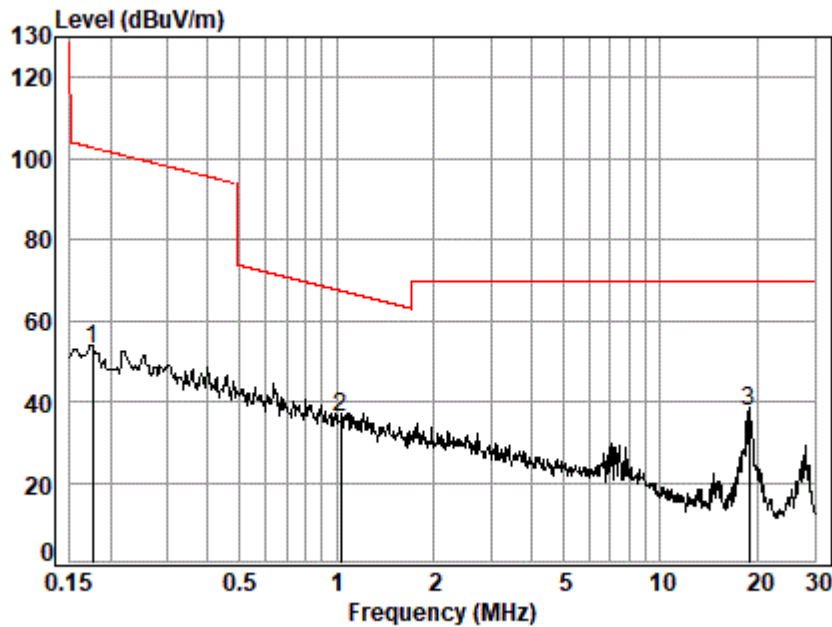
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220600025003

Page: 26 of 37

Test Mode: 10; Polarity: Coplanar



Condition: 3m

Job No. : 00250AT

Test Mode: 10

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	0.32	10.39	31.78	73.87	52.80	102.70	-49.90 Average
2	0.29	10.28	31.70	57.39	36.26	67.33	-31.07 QP
3	0.65	7.84	32.12	61.09	37.46	69.54	-32.08 QP



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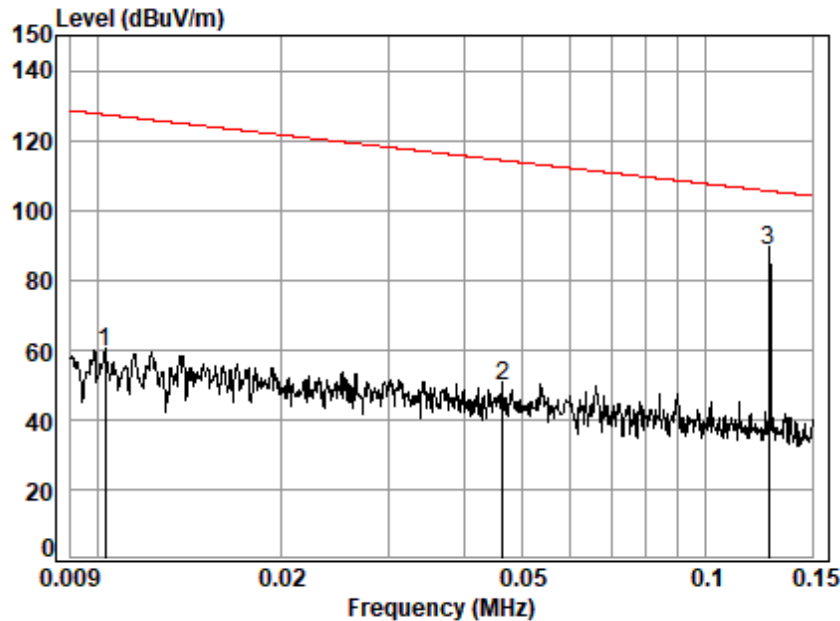
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220600025003

Page: 27 of 37

Test Mode: 10; Polarity: coaxial



Condition: 3m

Job No. : 00250AT

Test Mode: 10

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	0.0102	0.29	18.11	31.60	72.74	59.54	127.40	-67.86 Average
2	0.0464	0.31	11.13	31.73	69.86	49.57	114.27	-64.70 Average
3	0.1274	0.33	10.43	31.79	109.38	88.35	105.50	-17.15 Average



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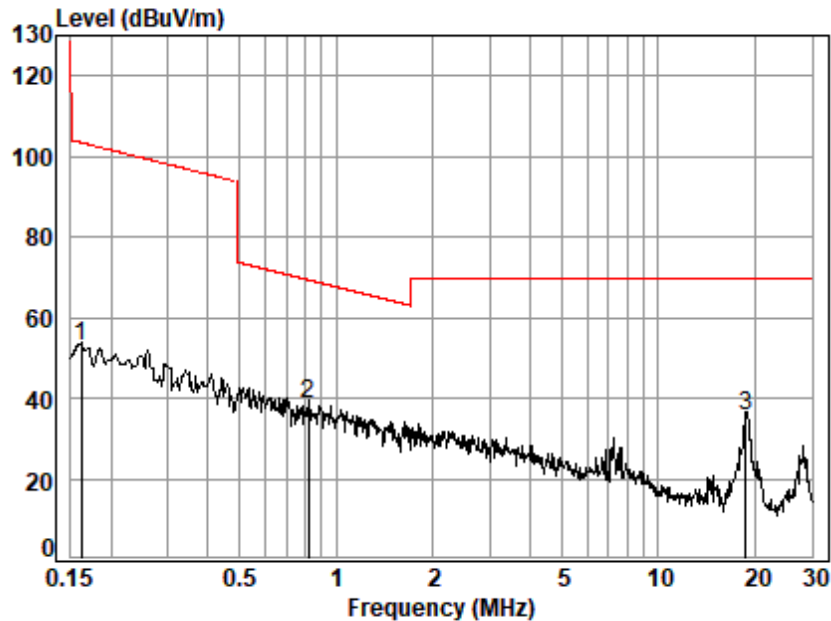
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220600025003

Page: 28 of 37

Test Mode: 10; Polarity: coaxial



Condition: 3m

Job No. : 00250AT

Test Mode: 10

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0.1615	0.32	10.40	31.78	73.73	52.67	103.44	-50.77	Average
2	0.8174	0.28	10.29	31.71	59.52	38.38	69.36	-30.98	QP
3	18.7210	0.65	7.86	32.11	59.09	35.49	69.54	-34.05	QP



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220600025003

Page: 29 of 37

7.5 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: 3m

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 CISPR quasi-peak detector.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 51.2 % RH

Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	Charge mode_Keep the EUT charging(5W)
Final test	09	Charge mode_Keep the EUT charging(7.5W)
Final test	10	Charge mode_Keep the EUT charging(10W)



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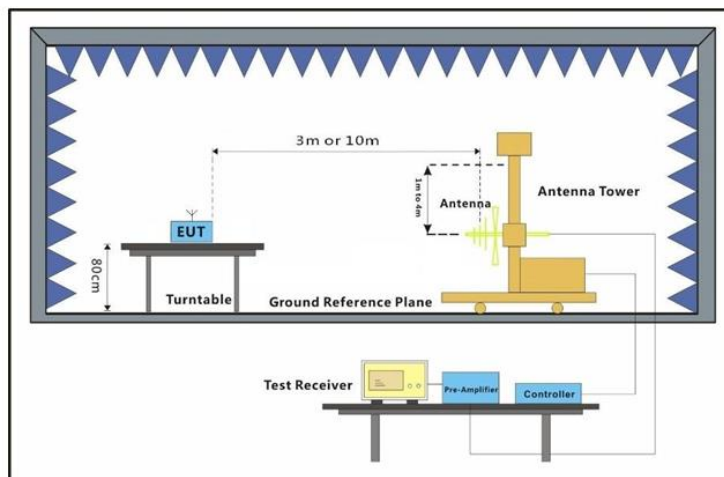
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220600025003

Page: 30 of 37

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel
- 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.
- Repeat above procedures until all frequencies measured was complete.

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

Remark: Both configuration which specified in the manual were pre-scan during the test, only the worst case data are shown in the test report. The worst case configuration please refer to the setup photos.



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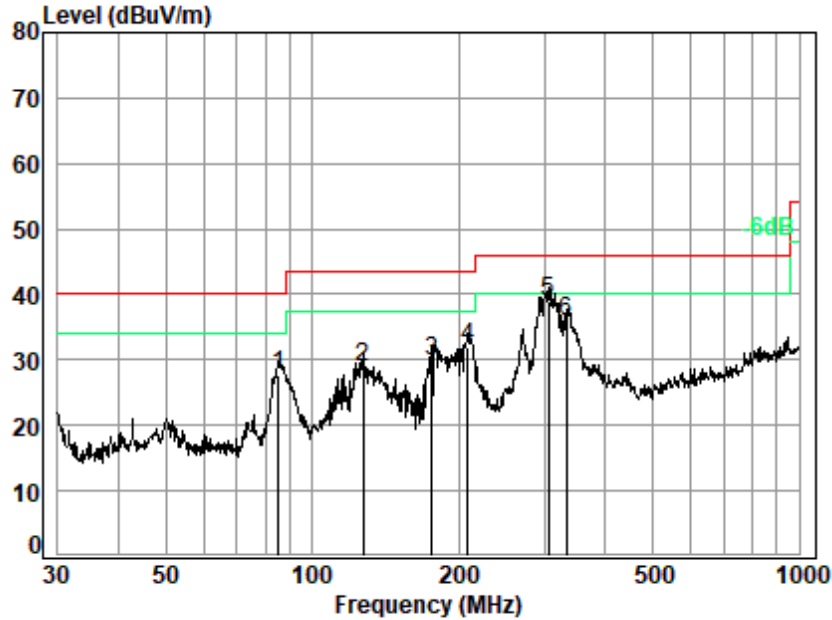
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220600025003

Page: 31 of 37

Test Mode: 08; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00250AT
Mode : 08

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	85.2981	0.57	13.84	25.81	39.09	27.69	40.00	-12.31 QP
2	127.2176	0.92	16.37	25.65	37.29	28.93	43.50	-14.57 QP
3	176.2686	0.68	16.43	25.44	38.12	29.79	43.50	-13.71 QP
4	208.5803	0.72	15.47	25.33	41.23	32.09	43.50	-11.41 QP
5	305.6800	1.07	18.57	25.15	44.51	39.00	46.00	-7.00 QP
6	332.5187	1.34	19.58	25.35	40.18	35.75	46.00	-10.25 QP



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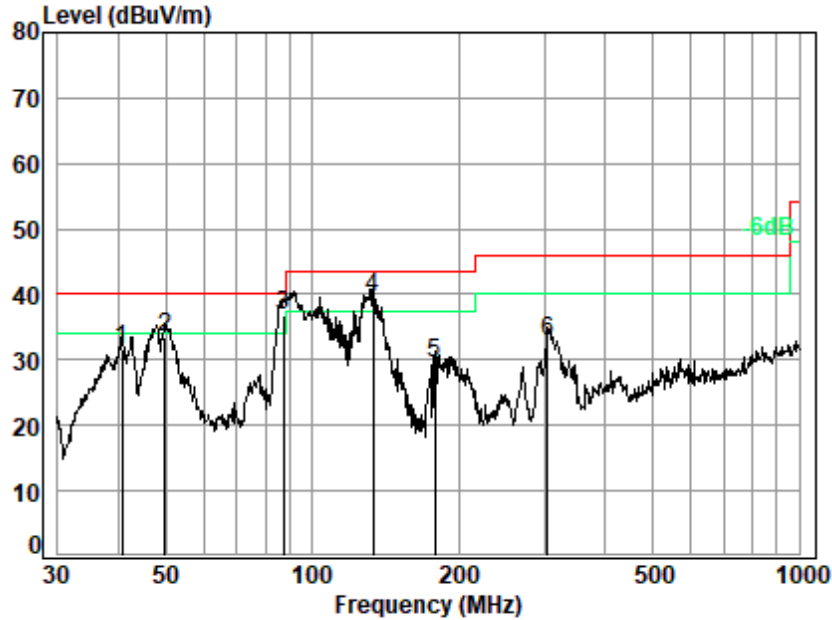
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220600025003

Page: 32 of 37

Test Mode: 08; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00250AT
Mode : 08

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	40.7016	0.20	16.88	25.88	40.48	31.68	40.00	-8.32 QP
2	49.7068	0.22	17.36	25.86	41.85	33.57	40.00	-6.43 QP
3	87.1117	0.61	13.63	25.81	48.40	36.83	40.00	-3.17 QP
4	133.1511	0.92	16.89	25.62	47.26	39.45	43.50	-4.05 QP
5	178.7584	0.67	16.25	25.43	37.90	29.39	43.50	-14.11 QP
6	303.5437	1.05	18.48	25.13	38.49	32.89	46.00	-13.11 QP



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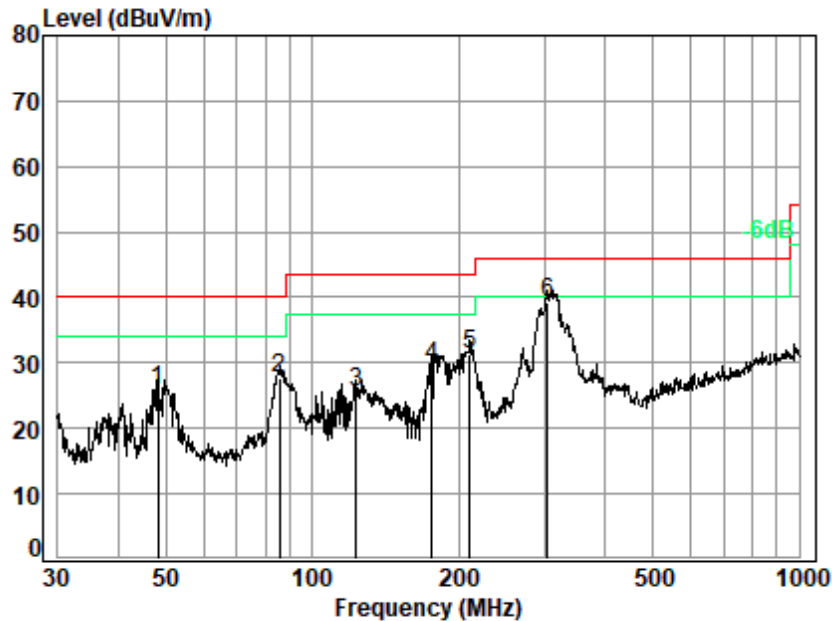
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220600025003

Page: 33 of 37

Test Mode: 09; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00250AT
Mode : 09

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	48.1626	0.22	17.28	25.86	34.19	25.83	40.00	-14.17 QP
2	85.5977	0.57	13.80	25.81	39.07	27.63	40.00	-12.37 QP
3	123.2655	0.93	16.01	25.67	34.24	25.51	43.50	-17.99 QP
4	176.2686	0.68	16.43	25.44	37.77	29.44	43.50	-14.06 QP
5	210.7860	0.73	15.55	25.32	40.50	31.46	43.50	-12.04 QP
6	304.6100	1.06	18.52	25.14	44.70	39.14	46.00	-6.86 QP



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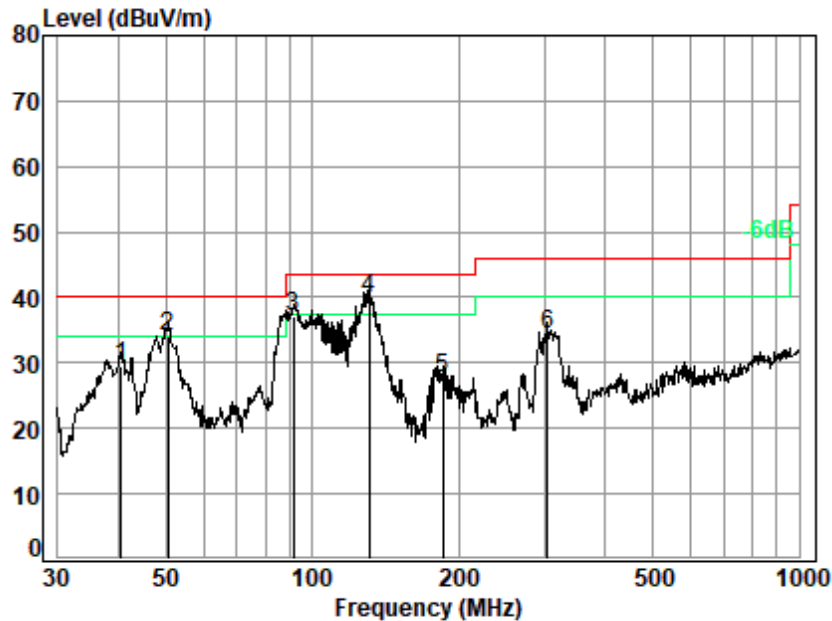
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220600025003

Page: 34 of 37

Test Mode: 09; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00250AT
Mode : 09

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	40.5592	0.20	16.85	25.88	38.46	29.63	40.00	-10.37 QP
2	50.5860	0.22	17.35	25.86	42.49	34.20	40.00	-5.80 QP
3	91.4949	0.69	13.77	25.81	48.37	37.02	43.50	-6.48 QP
4	130.8369	0.92	16.69	25.63	47.88	39.86	43.50	-3.64 QP
5	185.7882	0.67	15.78	25.41	36.58	27.62	43.50	-15.88 QP
6	304.6100	1.06	18.52	25.14	39.80	34.24	46.00	-11.76 QP



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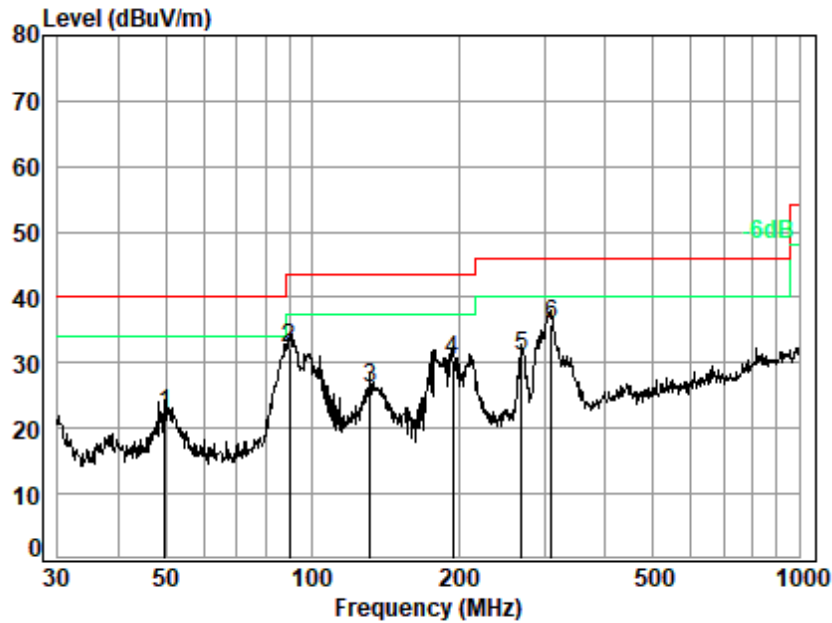
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220600025003

Page: 35 of 37

Test Mode: 10; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00250AT
Mode : 10

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	49.8814	0.22	17.37	25.86	30.58	22.31	40.00	-17.69	QP
2	89.9047	0.67	13.61	25.81	43.92	32.39	43.50	-11.11	QP
3	131.7577	0.92	16.77	25.62	34.07	26.14	43.50	-17.36	QP
4	194.4534	0.69	15.32	25.38	39.87	30.50	43.50	-13.00	QP
5	269.4284	0.90	17.23	25.17	37.95	30.91	46.00	-15.09	QP
6	309.9977	1.11	18.76	25.18	41.35	36.04	46.00	-9.96	QP



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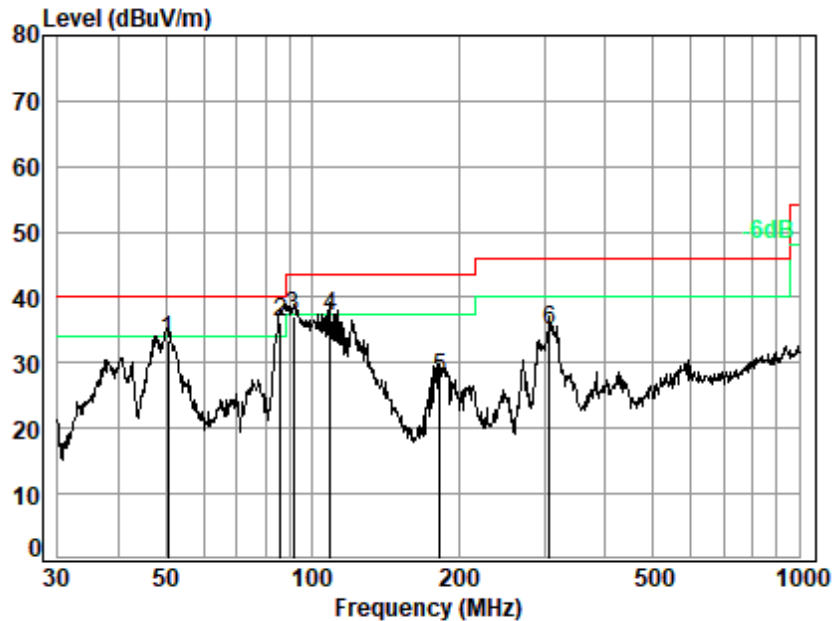
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220600025003

Page: 36 of 37

Test Mode: 10; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00250AT
Mode : 10

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	50.4089	0.22	17.36	25.86	41.60	33.32	40.00	-6.68 QP
2	86.2001	0.59	13.73	25.81	47.62	36.13	40.00	-3.87 QP
3	91.4949	0.69	13.77	25.81	48.36	37.01	43.50	-6.49 QP
4	108.6470	0.88	15.22	25.75	46.78	37.13	43.50	-6.37 QP
5	182.5592	0.67	15.99	25.42	36.44	27.68	43.50	-15.82 QP
6	306.7537	1.08	18.62	25.15	40.49	35.04	46.00	-10.96 QP



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2206000250AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2206000250AT

- End of the Report -



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