

TEST REPORT

Application No.: SZCR2307002244AT
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:3 CLASSICS
Model No.: CR-MAG3-BK-BK, CR-MAG3-GR-GR, CR-MAG3-WH-SL,
 CR-MAG3-BR-ORB, CR-MAG3-TN-PG ♣
 ♣ 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-MAG3
Standard(s) : 47 CFR Part 15, Subpart C
Date of Receipt: 2023-07-12
Date of Test: 2023-07-14 to 2023-07-26
Date of Issue: 2023-07-31

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

Kenx. Xu

Kenx Xu
EMC Laboratory Manager




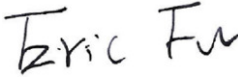
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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

Report No.: SZCR230700224401

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-07-31		Original

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



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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.: CR-MAG3-BK-BK, CR-MAG3-GR-GR, CR-MAG3-WH-SL, CR-MAG3-BR-ORB, CR-MAG3-TN-PG

Only the model CR-MAG3-BK-BK 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 shape and color of the shell.



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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:30W (max) Wireless Charging: Left Output:7.5W Right Output:5W
Cable(s):	Type C cable:150cm unshielded
Operation frequency:	Left:129.2KHz to 131.6KHz Right: 117kHz to 148.6kHz
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.
Load Resistor	SGS	N/A	REF. No.SEA06A00
iPhone 13	Apple	MLDYCH/A	REF. No.SEA16Q00
Earphone	Apple	A2566	REF. No.SEA10D00

4.3 Measurement Uncertainty

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

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (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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4.4 Test Location

All tests were performed at:

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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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5 Equipment List

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	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30

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	2023-07-07	2024-07-06
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

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	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30

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



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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	2023-07-07	2024-07-06

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	2023-07-07	2024-07-06

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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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 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



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

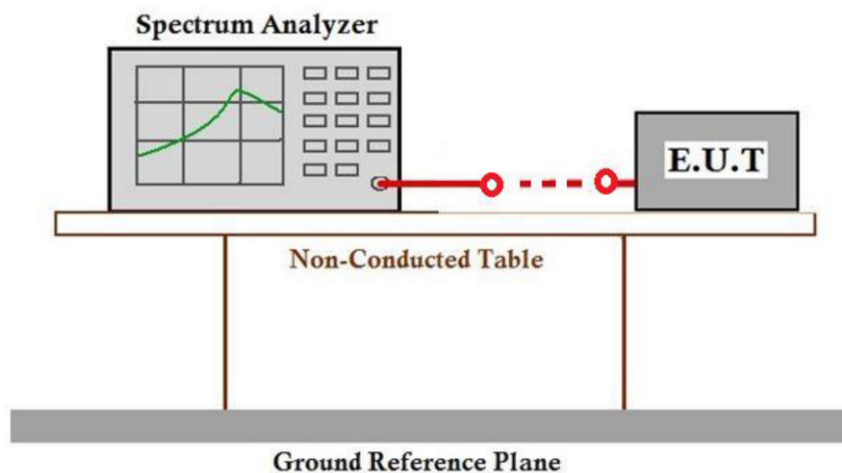
Operating Environment:

Temperature: 26.8 °C Humidity: 44.1 % RH Atmospheric Pressure: 995 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Operation(Wireless):Keep the EUT pairing with other devices. (5W airpods)
Final test	01	Operation(Wireless):Keep the EUT pairing with other devices. (7.5W iPhone)
Pre-scan	02	Charging mode_Keep the EUT charging (5W airpods+7.5W iPhone)
Pre-scan	03	Operation(Wireless)+Output:Keep the EUT pairing with other devices. (5W airpods)
Pre-scan	04	Operation(Wireless)+ Output:Keep the EUT pairing with other devices. (7.5W iPhone)
Pre-scan	05	Operation(Wireless)+ Output:Keep the EUT charging (5W airpods+7.5W iPhone)

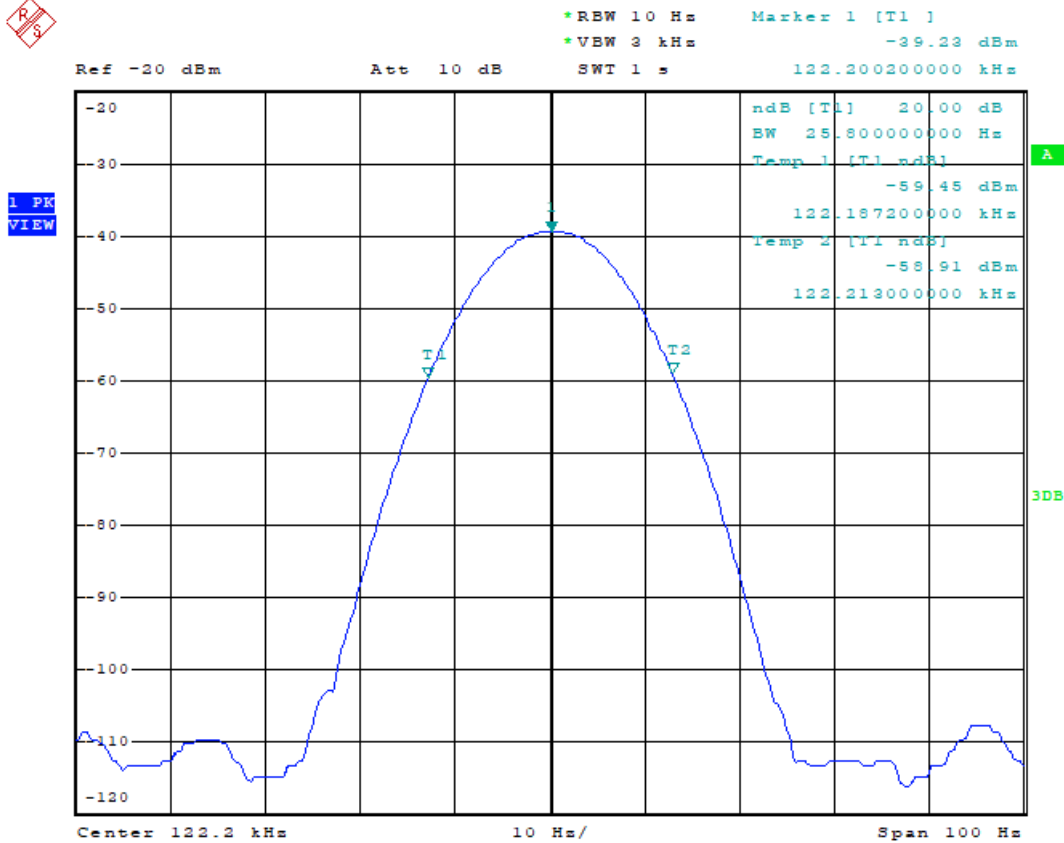
7.1.3 Test Setup Diagram



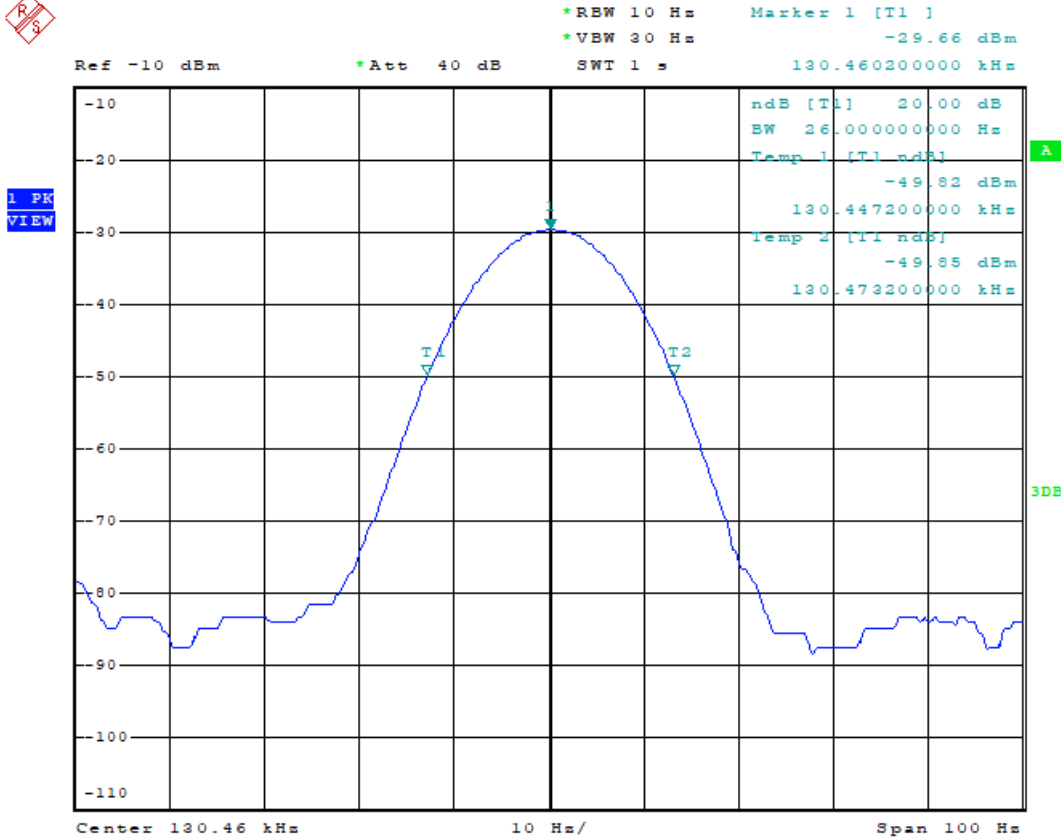
7.1.4 Measurement Procedure and Data



Test mode: 00



Test mode: 01



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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.

7.2.1 E.U.T. Operation

Operating Environment:

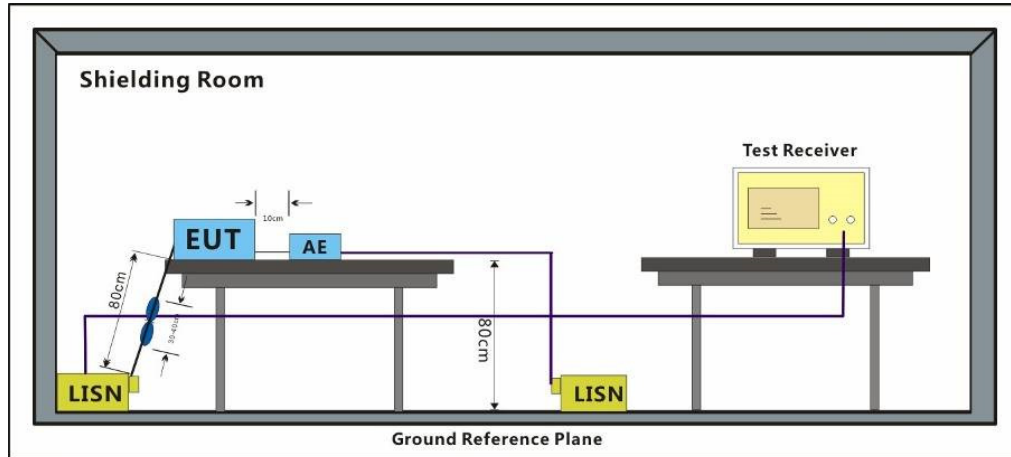
Temperature: 23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 995 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Operation(Wireless):Keep the EUT pairing with other devices. (5W airpods)
Pre-scan	01	Operation(Wireless):Keep the EUT pairing with other devices. (7.5W iPhone)
Pre-scan	02	Charging mode_Keep the EUT charging (5W airpods+7.5W iPhone)
Pre-scan	03	Operation(Wireless)+Output:Keep the EUT pairing with other devices. (5W airpods)
Pre-scan	04	Operation(Wireless)+ Output:Keep the EUT pairing with other devices. (7.5W iPhone)
Final test	05	Operation(Wireless)+ Output:Keep the EUT charging (5W airpods+7.5W iPhone)



7.2.3 Test Setup Diagram



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



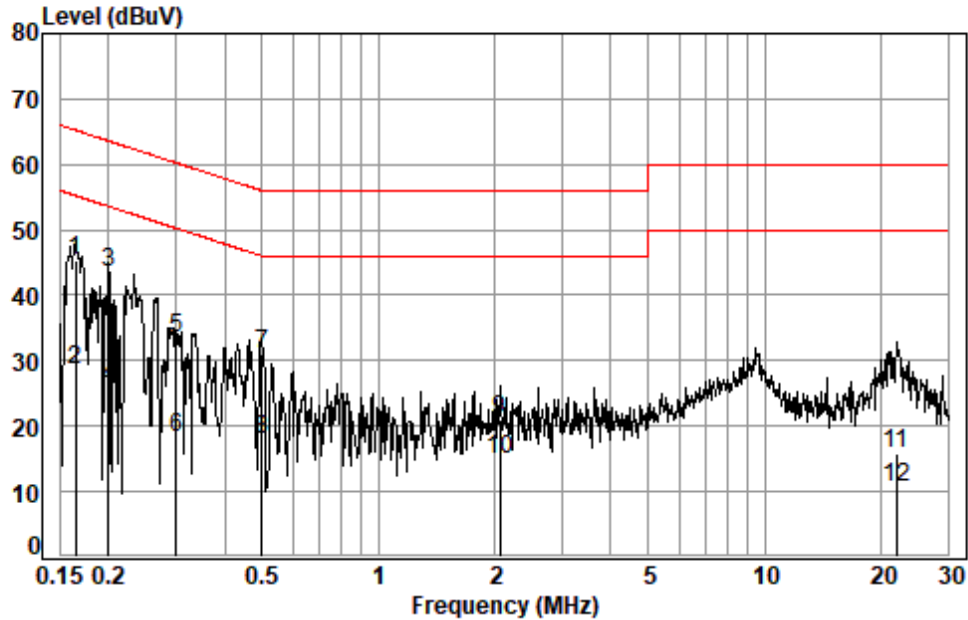
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Test Mode: 05; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 02244AT
Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1641	0.02	9.62	35.59	45.23	65.25	-20.02	QP
2 *	0.1641	0.02	9.62	19.09	28.73	55.25	-26.52	Average
3 *	0.2007	0.02	9.62	33.93	43.57	63.58	-20.01	QP
4	0.2007	0.02	9.62	16.17	25.81	53.58	-27.77	Average
5	0.3003	0.03	9.62	23.88	33.53	60.24	-26.71	QP
6	0.3003	0.03	9.62	8.53	18.18	50.24	-32.06	Average
7	0.4994	0.04	9.62	21.23	30.89	56.01	-25.12	QP
8	0.4994	0.04	9.62	8.33	17.99	46.01	-28.02	Average
9	2.0659	0.07	9.64	11.29	21.00	56.00	-35.00	QP
10	2.0659	0.07	9.64	5.23	14.94	46.00	-31.06	Average
11	21.9463	0.29	10.00	5.54	15.83	60.00	-44.17	QP
12	21.9463	0.29	10.00	0.36	10.65	50.00	-39.35	Average



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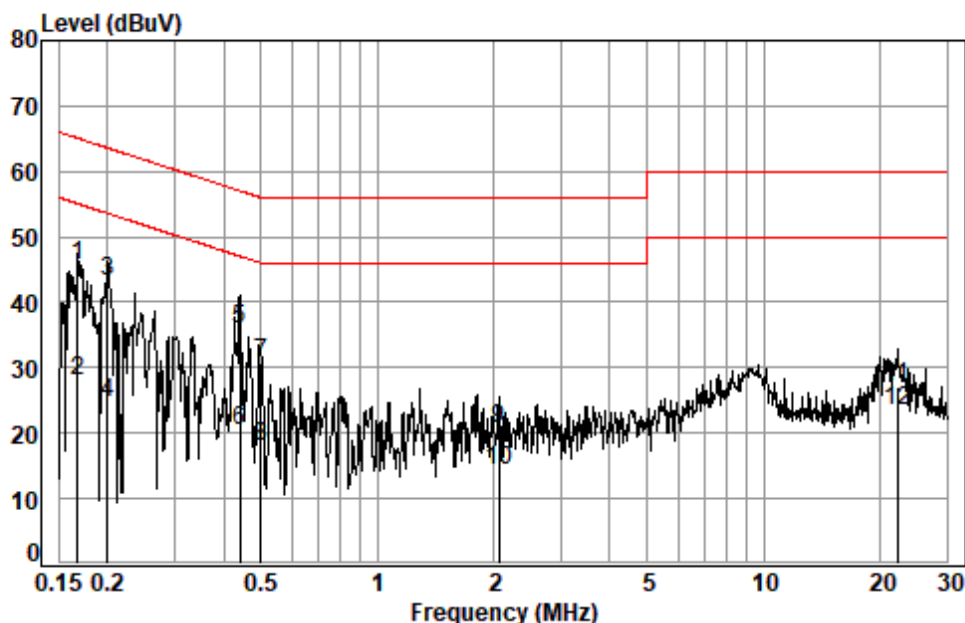
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Test Mode: 05; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 02244AT

Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1677	0.02	9.62	36.09	45.73	65.08	-19.35	QP
2	0.1677	0.02	9.62	18.37	28.01	55.08	-27.07	Average
3	0.2007	0.02	9.62	33.48	43.12	63.58	-20.46	QP
4	0.2007	0.02	9.62	15.13	24.77	53.58	-28.81	Average
5	0.4421	0.04	9.62	26.20	35.86	57.02	-21.16	QP
6	0.4421	0.04	9.62	10.61	20.27	47.02	-26.75	Average
7	0.4994	0.04	9.62	21.10	30.76	56.01	-25.25	QP
8	0.4994	0.04	9.62	8.31	17.97	46.01	-28.04	Average
9	2.0659	0.07	9.64	10.85	20.56	56.00	-35.44	QP
10	2.0659	0.07	9.64	4.70	14.41	46.00	-31.59	Average
11	22.1801	0.29	10.22	16.55	27.06	60.00	-32.94	QP
12 *	22.1801	0.29	10.22	13.05	23.56	50.00	-26.44	Average



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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

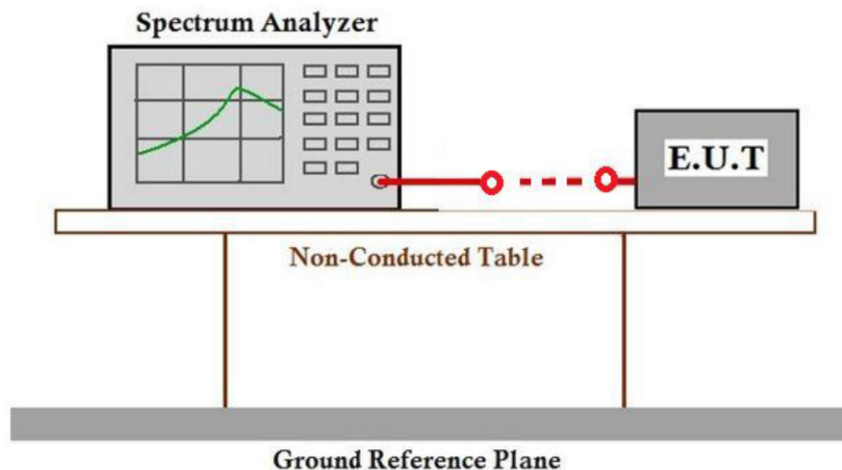
Operating Environment:

Temperature: 26.8 °C Humidity: 44.1 % RH Atmospheric Pressure: 995 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Operation(Wireless):Keep the EUT pairing with other devices. (5W airpods)
Final test	01	Operation(Wireless):Keep the EUT pairing with other devices. (7.5W iPhone)
Pre-scan	02	Charging mode_Keep the EUT charging (5W airpods+7.5W iPhone)
Pre-scan	03	Operation(Wireless)+Output:Keep the EUT pairing with other devices. (5W airpods)
Pre-scan	04	Operation(Wireless)+ Output:Keep the EUT pairing with other devices. (7.5W iPhone)
Pre-scan	05	Operation(Wireless)+ Output:Keep the EUT charging (5W airpods+7.5W iPhone)

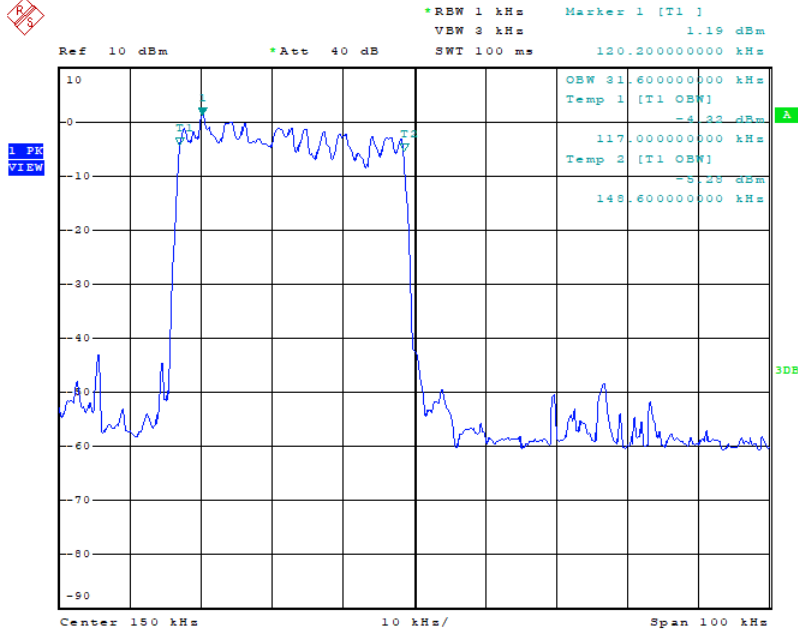
7.3.3 Test Setup Diagram



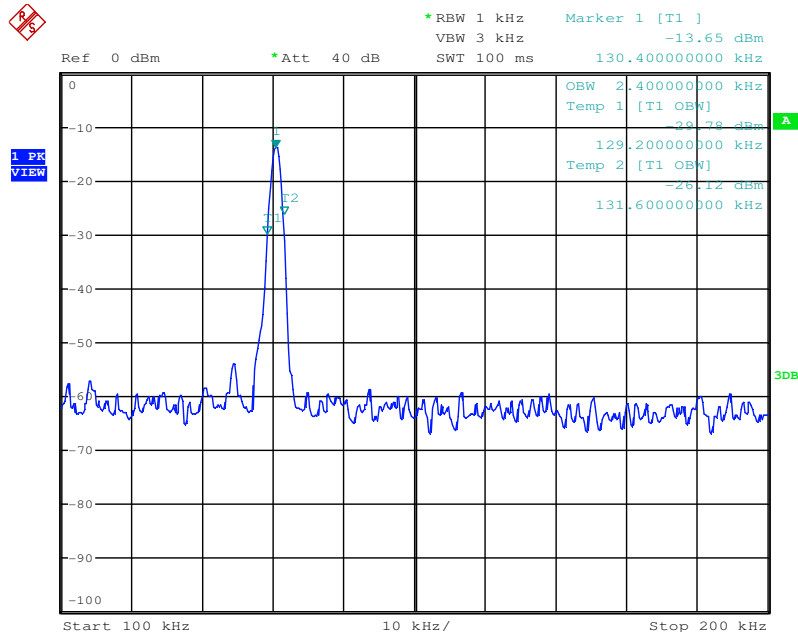
7.3.4 Measurement Procedure and Data



Test mode:00



Test mode:01



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.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

Humidity: 50.5 % RH

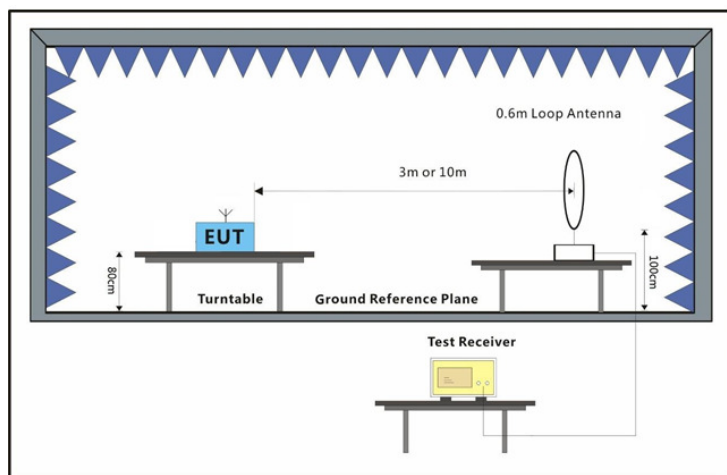
Atmospheric Pressure: 1005 mbar



7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Operation(Wireless):Keep the EUT pairing with other devices. (5W airpods)
Pre-scan	01	Operation(Wireless):Keep the EUT pairing with other devices. (7.5W iPhone)
Pre-scan	02	Charging mode_Keep the EUT charging (5W airpods+7.5W iPhone)
Pre-scan	03	Operation(Wireless)+Output:Keep the EUT pairing with other devices. (5W airpods)
Pre-scan	04	Operation(Wireless)+ Output:Keep the EUT pairing with other devices. (7.5W iPhone)
Final test	05	Operation(Wireless)+ Output:Keep the EUT charging (5W airpods+7.5W iPhone)

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

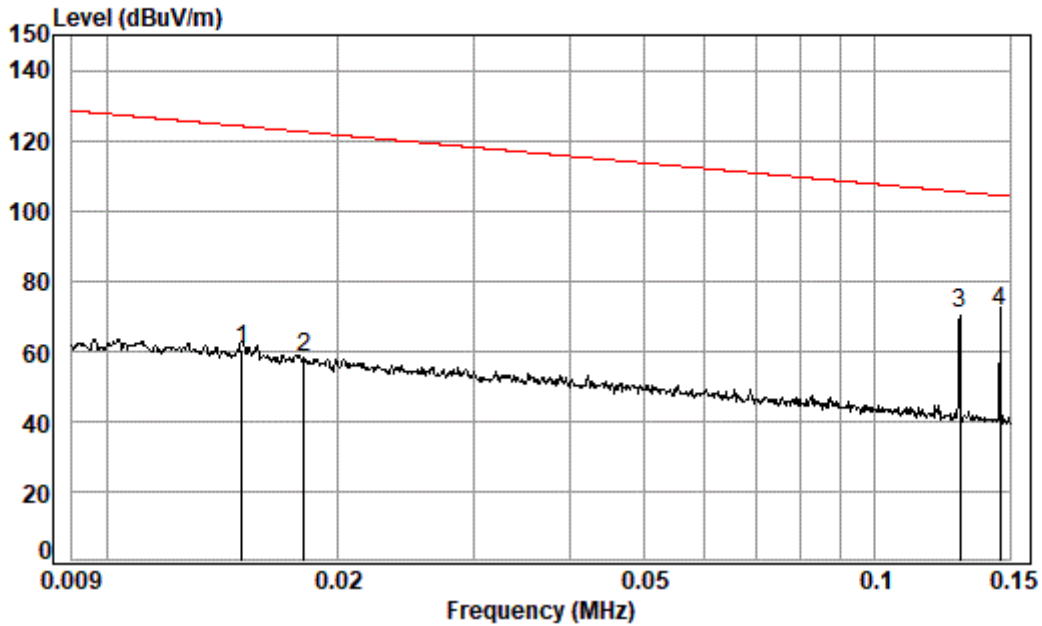
- All radiated emission measurements in terms of magnetic field strength shall be performed with a shielded loop antenna.
- For all radiated emission measurements in terms of magnetic field strength, the loop antenna were placed such that:
 - its centre shall be at 1.3 m height above the ground plane;
 - 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
 - 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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Condition: 3m

Job No. : 02244AT

Test Mode: 05

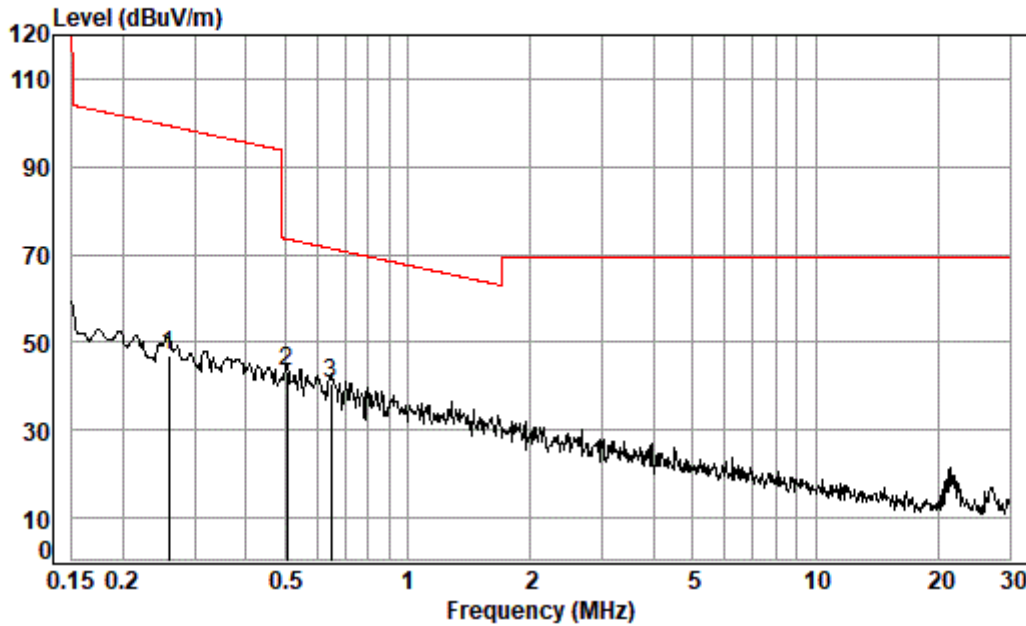
	Read	Ant	Cable	Preamp		Limit	Over		APos	TPos
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		cm
1	0.015	76.10	15.97	0.31	31.71	60.67	124.08	-63.41	Average	130
2	0.018	75.28	14.55	0.31	31.92	58.22	122.47	-64.25	Average	130
3	0.129	92.23	10.43	0.29	32.50	70.45	105.39	-34.94	Average	130
4 pp	0.146	93.29	10.42	0.30	32.50	71.51	104.32	-32.81	Average	130



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Condition: 3m

Job No. : 02244AT

Test Mode: 05

	Read	Ant	Cable	Preamp	Limit	Over		APos	TPos
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	cm	deg
1 av	0.259	69.19	10.35	0.18	32.50	47.22	99.34 -52.12	Average	130 251
2 pp	0.505	65.28	10.31	0.22	32.50	43.31	73.54 -30.23	QP	130 251
3	0.647	62.76	10.29	0.25	32.50	40.80	71.36 -30.56	QP	130 251



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: 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 CISPR quasi-peak detector.		

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 50.5 % RH

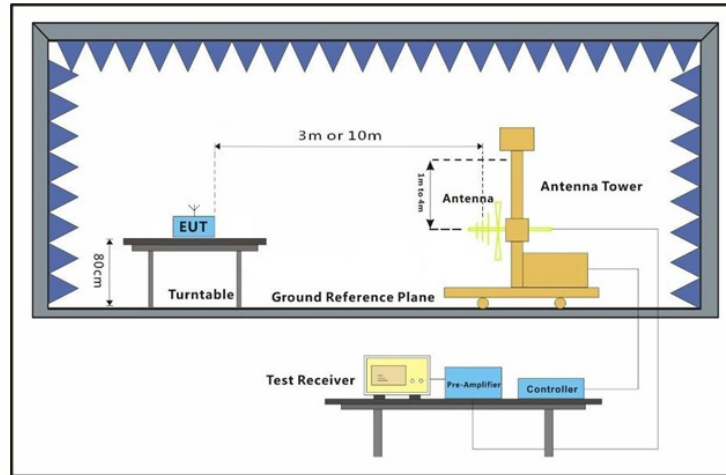
Atmospheric Pressure: 1005 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Operation(Wireless):Keep the EUT pairing with other devices. (5W airpods)
Pre-scan	01	Operation(Wireless):Keep the EUT pairing with other devices. (7.5W iPhone)
Pre-scan	02	Charging mode_Keep the EUT charging (5W airpods+7.5W iPhone)
Pre-scan	03	Operation(Wireless)+Output:Keep the EUT pairing with other devices. (5W airpods)
Pre-scan	04	Operation(Wireless)+ Output:Keep the EUT pairing with other devices. (7.5W iPhone)
Final test	05	Operation(Wireless)+ Output:Keep the EUT charging (5W airpods+7.5W iPhone)



7.5.3 Test Setup Diagram



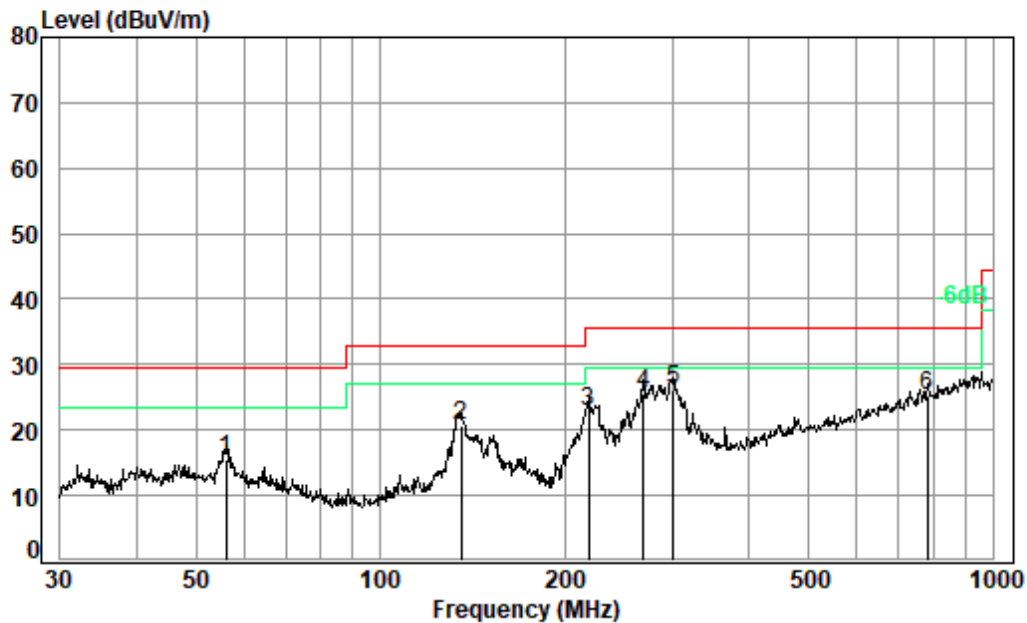
7.5.4 Measurement Procedure and Data

- 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



Test Mode: 05; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 02244AT

Test Mode: 05

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	56.001	30.08	17.31	0.64	32.49	15.54	29.50	-13.96	QP
2	135.506	35.57	16.53	0.96	32.40	20.66	33.00	-12.34	QP
3	219.075	38.76	15.24	1.24	32.38	22.86	35.60	-12.74	QP
4	268.485	39.77	16.83	1.36	32.33	25.63	35.60	-9.97	QP
5 pp	300.367	39.30	17.63	1.44	32.30	26.07	35.60	-9.53	QP
6	782.345	28.89	26.08	2.30	32.05	25.22	35.60	-10.38	QP



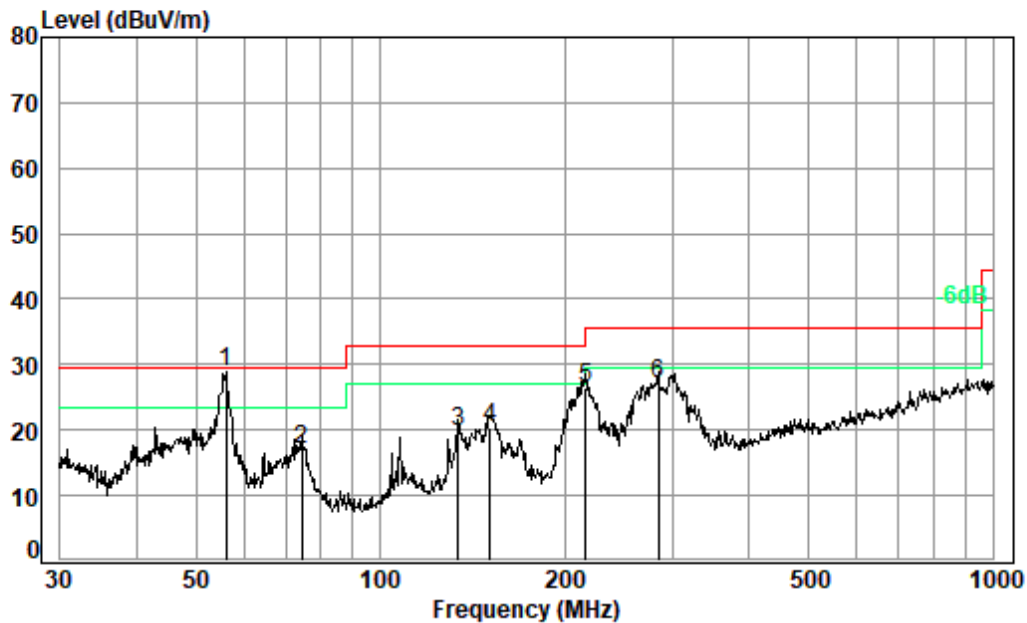
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Test Mode: 05; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 02244AT

Test Mode: 05

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	pp	56.001	43.32	17.31	0.64	32.49	28.78	29.50	-0.72 QP
2		74.396	34.48	14.35	0.78	32.45	17.16	29.50	-12.34 QP
3		134.088	34.84	16.28	0.95	32.40	19.67	33.00	-13.33 QP
4		151.067	34.00	17.72	1.01	32.40	20.33	33.00	-12.67 QP
5		216.783	42.65	15.09	1.23	32.38	26.59	35.60	-9.01 QP
6		283.979	40.47	17.38	1.40	32.32	26.93	35.60	-8.67 QP



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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:

L_3 : Level @ 3m distance. Unit: $\mu\text{V/m}$;

L_{10} : Level @ 10m distance. Unit: $\mu\text{V/m}$;

D_3 : 3m distance. Unit: m

D_{10} : 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m ($\mu\text{V/m}$)	Level @ 3m ($\mu\text{V/m}$)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
56.001	15.54	5.98	19.95	26.00	40	-14.00	H
135.506	20.66	10.79	35.96	31.12	43.5	-12.38	H
219.075	22.86	13.90	46.33	33.32	43.5	-10.18	H
268.485	25.63	19.12	63.74	36.09	46	-9.91	H
300.367	26.07	20.11	67.05	36.53	46	-9.47	H
782.345	25.22	18.24	60.80	35.68	46	-10.32	H
56.001	28.78	27.48	91.60	39.24	40	-0.76	V
74.396	17.16	7.21	24.04	27.62	40	-12.38	V
134.088	19.67	9.63	32.09	30.13	43.5	-13.37	V
151.067	20.33	10.39	34.62	30.79	43.5	-12.71	V
216.783	26.59	21.36	71.18	37.05	46	-8.95	V
283.979	26.93	22.21	74.03	37.39	46	-8.61	V



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2307002244AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2307002244AT

- End of the Report -

