

Prüfbericht-Nr.: <i>Test report no.:</i>	CN25BTYS 003	Auftrags-Nr.: <i>Order no.:</i>	168562185	Seite 1 von 28 <i>Page 1 of 28</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2025-06-09	
Auftraggeber: <i>Client:</i>	Harman International Industries, Incorporated 8500 Balboa Blvd, Northridge, California, 91329, United States			
Prüfgegenstand: <i>Test item:</i>	BLUETOOTH HEADSET			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	JUNIOR FREE (Trademark: JBL)			
Auftrags-Inhalt: <i>Order content:</i>	Type test			
Prüfgrundlage: <i>Test specification:</i>	EN 301 489-1 V2.2.3 (2019-11) EN 301 489-17 V3.3.1 (2024-09) EN IEC 61000-3-2:2019+A1 EN 61000-3-3:2013+A2 EN 55032:2015+A11:2020 EN 55032:2015+A1:2020 EN 55035:2017+A11:2020		ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.3.1 (2024-09) BS EN IEC 61000-3-2:2019+A1 BS EN 61000-3-3:2013+A2 BS EN 55032:2015+A11:2020 BS EN 55032:2015+A1:2020 BS EN 55035:2017+A11:2020	
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025-06-26			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004028566			
Prüfzeitraum: <i>Testing period:</i>	2025-06-26 – 2025-07-11			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	X  _____ Signed by: Harry W. C. Wu		genehmigt von: <i>authorized by:</i>	X  _____ Signed by: Alex Lan
Datum: <i>Date:</i> 2025-08-19			Ausstellungsdatum: <i>Issue date:</i> 2025-08-19	
Stellung / Position	Project Manager		Stellung / Position	Authorizer
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>		
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
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Anmerkungen Remarks

- | | |
|----------|---|
| 1 | <p>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system.</p> <p>Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</p> <p><i>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</i></p> <p><i>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i></p> |
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| 3 | <p>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</p> <p><i>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</i></p> |
| 4 | <p>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</p> <p><i>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezueglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</i></p> |

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Test Summary

5.1.1 HARMONICS CURRENT EMISSION ON AC MAINS PORT

RESULT: *Not applicable*

5.1.2 VOLTAGE FLUCTUATIONS AND FLICKER ON AC MAINS

RESULT: *Not applicable*

5.1.3 CONDUCTED EMISSIONS

RESULT: *Pass*

5.1.4 RADIATED EMISSIONS

RESULT: *Pass*

5.2.1 ELECTROSTATIC DISCHARGES (ESD)

RESULT: *Pass*

5.2.2 RADIO FREQUENCY ELECTROMAGNETIC FIELD (RS)

RESULT: *Pass*

5.2.3 FAST TRANSIENTS (EFT)

RESULT: *Pass*

5.2.4 SURGE

RESULT: *Pass*

5.2.5 RADIO-FREQUENCY CONTINUOUS CONDUCTED (CS)

RESULT: *Pass*

5.2.6 VOLTAGE DIPS AND INTERRUPTIONS

RESULT: *Pass*

5.2.7 POWER-FREQUENCY MAGNETIC FIELDS

RESULT: *Not applicable*

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:
Appendix A: Test Results.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.
2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China
CNAS number: L3080

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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102428	2026-07-18
Artificial Mains Network	R&S	ENV432	101546	2026-02-09
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A
Radiated Emission (10m chamber)				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
10m SAC	ETS-Lindgren	SAC10	CT001632-Q1399	2027-10-22
EMI Test Receiver 2	R&S	ESR7	102023	2026-07-18
Below 1G cable #1 in 10m SAC	Calibration frequency range:9 kHz ~1.0 GHz			2025-12-20
EMI Test Receiver 1	R&S	ESR7	102022	2026-07-18
Below 1G cable #2 in 10m SAC	Calibration frequency range:9 kHz ~1.0 GHz			2025-12-20
Bilog Antenna 1	TESEQ	CBL6112D	51321	2025-09-07
Bilog Antenna 2	TESEQ	CBL6112D	51322	2025-09-26
Preamplifier 1 (30-1000MHz)	SCHWARZBECK	BBV9745	00256	2025-10-19
Preamplifier 1 (30-1000MHz)	SCHWARZBECK	BBV9745	115	2025-10-19
Preamplifier 3 (1-18GHz)	R&S	SCU-18F	180077	2025-10-19
Horn Antenna	R&S	HF907	102707	2025-10-19
Above 1G cable #1 in 10m SAC	Calibration frequency range: 9 kHz~6 GHz			2025-12-20
Above 1G cable #2 in 10m SAC	Calibration frequency range: 1 GHz~18 GHz			2025-12-20
Antenna-Preamplifier 40GHz cable (30cm)	Calibration frequency range: 1 GHz~40 GHz			2025-12-14
Preamplifier-Receiver 40GHz cable (50cm)	Calibration frequency range: 1 GHz~40 GHz			2025-12-14
EMC32 test software	R&S	EMC32(Ver.10.60.20)	N/A	N/A
Radiated Emission (3m chamber) for above 1GHz				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
3m SAC	ETS-Lindgren	SAC3	CT001632-Q1362	2027-09-11
EMI Test Receiver	R&S	ESR7	102111	2026-07-18
Horn Antenna	R&S	HF907	102706	2025-09-01
Preamplifier (1-18GHz)	R&S	SCU-18F	180076	2025-10-11
Above 1G cable in 3m SAC	Calibration frequency range: 9 kHz~18 GHz			2025-12-14
Active magnetic loop antenna	SCHWARZBECK	FMZB1519B	00080	2025-09-01
Trilog-Broadband antenna	SCHWARZBECK	VULB9168	0945	2026-07-18
Preamplifier (30-1000MHz)	EMCI	EMC9135-P	980629	2026-07-18
Below 1G cable in 3m SAC	Calibration frequency range: 9 kHz~1.0 GHz			2025-12-20

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EMC32 test software	R&S	EMC32(Ver.10.60.20)	N/A	N/A
Electrostatic Discharge (ESD)				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
ESD Tester	TESEQ	NSG-437	1282	2026-08-01
Radio Frequency Electromagnetic Field (RS)				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
3m FAC	ETS-Lindgren	FAC3	CT001632-Q1360	2027-09-12
Signal Generator	R&S	SMB100A	115183	2026-07-18
Power Amplifier	R&S	BBA150-BC250	103102	2026-07-18
Power Amplifier	R&S	BBA150-D110E100	103117	2026-07-18
Power Sensor	R&S	NRP6AN	101161	2026-07-18
Power Sensor	R&S	NRP6AN	101162	2026-07-18
Stacked Double Log.-Per. Antenna	Schwarzbeck	STLP 9128E	0153	2026-01-11
Stacked Log.-Per. Antenna	Schwarzbeck	STLP 9149	00520	2026-01-11
EMC32 Test Software	R&S	EMC32(Ver.10.50.00)	N/A	N/A
Laser Probe Interface	RF/Microwave	FI7000	0351048	2026-07-18
Electric Field Probe Kit	Rf/Microwave	FL7006/KIT	0350352/0351122	2026-07-18
Radio Frequency Continuous Conducted (CS)				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Conducted Immunity Test System	Teseq	NSG 4070	51350	2026-07-18
6 dB Attenuator	Teseq	100W6dB	/	2026-07-18
COUPLING AND DECOUPLING NETWORK	Teseq	CDN M016	51055	2026-07-18
COUPLING AND DECOUPLING NETWORK	Teseq	CDN M016	51056	2026-07-18
COUPLING AND DECOUPLING NETWORK	Teseq	CDNE M210	51964	2026-07-18
COUPLING AND DECOUPLING NETWORK	Teseq	CDNE M310	50933	2026-07-18
COUPLING AND DECOUPLING NETWORK	Teseq	CDN T800	49430	2026-07-18
Attenuation clamp	Teseq	KEMA 801A	50790	2026-02-09
EM Clamp	Teseq	KEMZ 801A	51287	2026-02-09
EFT/Surge/Voltage Dips & Interruptions				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EFT/Surge/Voltage Dips & Interruption Main test unit	EMTest	compact NX5 bspt-1-300-16	P1807214329	2026-07-18
Capacitive Coupling Clamp	EMTest	CCI	P1827221599	2026-07-18
Variac	EMTest	Variac NX-1-260-16	P1828221789	2026-07-18

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PFMF Generator	EMTest	MC 2630	P1816215107	2026-07-18
PFMF Magnetic antenna	EMTest	MS 100N	P1832222236	2026-07-18
Coupling Decoupling Network for Telecommunication port	EMTest	CNV508T5	P1806214115	2026-07-18
EMC 4 IN 1 system test software	EMTest	lec.control (V8.0.3)	N/A	N/A

ABT test equipments for audio product test

Equipment	Manufacturer	M/N	S/N	Calibrated until
Audio Analyzer Unit	R&S	UPV	104669	2026-02-09
ABT-SET - artificial ear	B&K	4185	1105	2026-02-14
ABT-SET - artificial mouth	B&K	4227	1106	2026-02-14
ABT-SET - Microphone	B&K	4182	1107	2026-02-14
ABT-SET – Audio calibrator	B&K	4231	1108	2026-02-14
ABT-SET – Audio amplifier	B&K	2690-0S2	1109	2026-02-14

Equipment	Manufacturer	Model	Serial No.	Cal. until
Wireless Connectivity Tester	R&S	CMW270	102505	25.09.2025

2.3 Uncertainty of Measurement

Table 2: Measurement Uncertainty levels

Test	Parameters	Expanded uncertainty (U_{lab})	Expanded uncertainty (U_{cisp})
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 3.70 dB ± 3.30 dB	± 3.8 dB ± 3.4 dB
Radiated Emission (10m SAC)	Level accuracy (30MHz to 1000MHz)	± 4.66 dB	± 6.3 dB
	Level accuracy (above 1000MHz)	± 4.35 dB	N/A
Radiated Emission (3m SAC)	Level accuracy (30MHz to 1000MHz)	± 4.30 dB	± 6.3 dB
	Level accuracy (above 1000MHz)	± 4.60 dB	N/A
Mains Harmonic	Current	$\pm 2.94\%$	N/A
Voltage Fluctuations & Flicker	Voltage	$\pm 6.24\%$	N/A

As U_{lab} in all applicable tests listed above are less than U_{cisp} according to CISPR 16-4-2:2011,

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

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a Bluetooth headset, and it supports Bluetooth dual mode technology. This product may have different colors for marketing purpose which have the same electrical parameter.

The Classical Bluetooth and Bluetooth low energy can't transmit at the same time.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	BLUETOOTH HEADSET
Type Designation	JUNIOR FREE
Trade Mark	JBL
Operating Voltage	DC 5V, 1A via Type C interface or DC 3.85V, 98mAh, 0.38Wh via built-in Li-ion battery
Extreme Temperature Range	0°C to +45°C
Technical Specification of Classical Bluetooth	
Operating Frequency band	2402 ~ 2480 MHz
Channel Number	79 channels
Channel separation	1MHz
Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type	FPC antenna
Antenna Gain	-0.73 dBi (Provided by the Client)
Technical Specification of Bluetooth Low Energy	
Operating Frequency band	2402 – 2480 MHz
Channel Number	40 channels
Channel separation	2MHz
Data rate	1Mbps, 2Mbps
Modulation	GFSK
Antenna Type	FPC antenna
Antenna Gain	-0.73 dBi (Provided by the Client)

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth playing
- B. On, Charging
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

For details refer to the Circuit Diagram.

3.5 Submitted Documents

- | | |
|-----------------|----------------|
| - Block Diagram | - Rating Label |
| - Schematics | - User Manual |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Immunity: The equipment under test (EUT) was configured to have its highest possible susceptibility against the tested phenomena. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5 and chapter 6.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N or Ratng
Mobile phone	SAMSUNG	Galaxy Z Fold4	RFCT80V5XYF
AC/DC Adapter	HUAWEI	HW-090200CH0	Input: 100-240V, 50/60Hz, 0.5A Output: DC 5V, 2A or DC 9V, 2A
Earbuds	Harman	ENDURANCE ZONE	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

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5 Test Results ERM

5.1 Test Results of Emissions Requirement

5.1.1 Harmonics Current Emission on AC Mains port

RESULT:

Not applicable

Test Specification

Test standard	: EN 301 489-17 V3.3.1
Basic standard	: EN 301 489-1 V2.2.3 EN IEC 61000-3-2:2019+A1:2021
Test requirement	: Clause 8.5 of EN 301 489-1 V2.2.3
Measured harmonics	: 2 - 40
Classification	: Class A
Limit	: EN IEC 61000-3-2:2019+A1:2021, Clause 7.2

As declared by the manufacturer, the max rated power of the EUT is less than 25W. According to clause 7 of EN IEC 61000-3-2:2019+A1:2021, limit for equipment with a rated power of 75W or less is not specified. Therefore, the requirements are fulfilled without testing.

5.1.2 Voltage Fluctuations and Flicker on AC Mains

RESULT:

Not applicable

Test Specification

Test standard	: EN 301 489-17 V3.3.1
Basic standard	: EN 301 489-1 V2.2.3 EN 61000-3-3:2013+A2:2021
Test requirement	: Clause 8.6 of EN 301 489-1 V2.2.3
Frequency range	: 0 – 2 kHz
Limit	: Clause 5 of EN 61000-3-3:2013+A2:2021

The EUT's rated power is less than 25W and is not likely to produce significant voltage fluctuations or flicker, therefore deem to conform to voltage fluctuations and flicker limits without further testing in accordance with Clause 6.1 of EN 61000-3-3:2013+A2:2021.

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5.1.3 Conducted Emissions

RESULT:

Pass

Test Specification

Test standard	: EN 301 489-1 V2.2.3 EN 301 489-17 V3.3.1 EN 55032: 2015+A1:2020 EN 55032: 2015+A11:2020
Frequency range	: 0.15 - 30MHz
Classification	: Class B
Limit	: Clause 8.4.3 of EN 301 489-1 V2.2.3 Table A.10 of EN 55032: 2015+A1:2020 Table A.10 of EN 55032: 2015+A11:2020
Kind of test site	: Shielded room

Test Setup

Date of testing	: 2025-06-26 to 2025-07-11
Test voltage	: DC 5V via Type-C interface
Operation mode	: B
Test ports	: AC mains terminals
Earthing	: Not connected
Test configuration	: Table-top
Ambient temperature	: 24.5 °C
Relative humidity	: 52.3 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A & B.

This testing was carried out on all operation modes, but only the worst case was presented in this report.

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5.1.4 Radiated Emissions

RESULT:

Pass

Test Specification

Test standard	: EN 301 489-1 V2.2.3 EN 301 489-17 V3.3.1 EN 55032: 2015+A1:2020 EN 55032: 2015+A11:2020
Frequency range	: 30MHz to 5 th harmonic of the highest frequency
Classification	: Class B
Limit	: Clause 8.2.3 of EN 301 489-1 V2.2.3 Table A.4 and A.5 of EN 55032: 2015+A1:2020 Table A.4 and A.5 of EN 55032: 2015+A11:2020
Kind of test site	: 10m Semi-Anechoic Chamber & 3m Semi-Anechoic Chamber
Test ports	: Enclosure

Test Setup

Date of testing	: 2025-06-26 to 2025-07-11
Test voltage	: DC 5V via Type-C interface or battery
Operation mode	: A, B
Earthing	: Not connected
Test configuration	: Table-top
Ambient temperature	: Refer to test data
Relative humidity	: Refer to test data
Atmospheric pressure	: Refer to test data

For the measurement records, refer to the appendix A & B.

This testing was carried out on all operation modes, but only the worst case was presented in this report.

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5.2 Test Results of Immunity Requirement

5.2.1 Electrostatic Discharges (ESD)

RESULT:

Pass

Test Specification

Test standard	: EN 301 489-1 V2.2.3 EN 301 489-17 V3.3.1 EN 55035:2017+A11:2020
Basic standard	: EN 61000-4-2:2009 IEC 61000-4-2:2008
Test Requirement	: Clause 9.3.1 of EN 301 489-1 V2.2.3 Table 1 of EN 55035:2017+A11:2020
Test level	: Contact discharge: $\pm 4.0\text{kV}$ Air discharge: $\pm 2\text{kV}$, $\pm 4\text{kV}$, $\pm 8\text{kV}$
Position	: All exposed surfaces
Criterion	: Clause 6.4 of EN 301 489-17 V3.3.1 Clause 8 and Annex G of EN 55035:2017+A11:2020

Test Setup

Date of testing	: 2025-06-26 to 2025-07-11
Test voltage	: DC 5V via Type-C interface or battery
Operation mode	: A, B
Test ports	: Enclosure
Earthing	: Not connected
Test configuration	: Table-top
Ambient temperature	: 24.6 °C
Relative humidity	: 52.5 %
Atmospheric pressure	: 101 kPa

Table 5: Test result of Electrostatic Discharges (ESD)

Operation mode	Test Voltage	Location	Result
A, B	$\pm 4.0\text{kV}$ / Contact	HCP	A*
		VCP	A*
		Conducted Enclosure	A*
	$\pm 2\text{kV}$, $\pm 4\text{kV}$, $\pm 8\text{kV}$ / Air	Non-conducted Enclosure	A*
		Button	A*
		Slot	A*

*Remark: No degradation was observed during and after the tests.
During the test period, the PER was less than 10%.

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5.2.2 Radio Frequency Electromagnetic Field (RS)

RESULT:

Pass

Test Specification

Test standard	: EN 301 489-1 V2.2.3 EN 301 489-17 V3.3.1 EN 55035:2017+A11:2020
Basic standard	: EN 61000-4-3:2006+A1+A2 IEC 61000-4-3:2006+A1+A2
Test Requirement	: Clause 9.2.1 of EN 301 489-1 V2.2.3 Table 1 of EN 55035:2017+A11:2020
Test level	: 3V/m, (unmodulated, rms)
Modulation	: 80% AM by a sinusoidal signal of 1kHz For EN 301489-1: 80MHz -6GHz For EN 55035:
Frequency range	: 80MHz -1GHz for swept test 1800MHz, 26000MHz, 3500MHz, 5000MHz for spot test
Criterion	: Clause 6.3 of EN 301 489-17 V3.3.1 Clause 8 and Annex G of EN 55035:2017+A11:2020

Test Setup

Date of testing	: 2025-06-26 to 2025-07-11
Test voltage	: DC 5V via Type-C interface or battery
Operation mode	: A, B
Test ports	: Enclosure
Earthing	: Not connected Table-top
Test configuration	: Test setup according to Figure G.2 of EN55035:2017+A11:2020 (Microphone, Filter and Audio Meterare all integrated into the Audio Analyzer already)
Ambient temperature	: 24.6 °C
Relative humidity	: 51.8 %
Atmospheric pressure	: 101.4 kPa

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Table 6: Test result of Radio Frequency Electromagnetic Field (RS), for swept test

Test Frequency Band	Test port	Polarity	Location	Result
80MHz – 1000MHz	Enclosure	Vertical / Horizontal	Front	A*
			Rear	A*
			Left	A*
			Right	A*
1000MHz – 6000MHz	Enclosure	Vertical / Horizontal	Front	A*
			Rear	A*
			Left	A*
			Right	A*

Table 7: Test result of Radio Frequency Electromagnetic Field (RS), for spot test

Test Frequency	Test port	Polarity	Location	Result
1800MHz 2600MHz 3500MHz 5000MHz	Enclosure	Vertical / Horizontal	Front	A*
			Rear	A*
			Left	A*
			Right	A*

*Remark: No degradation was observed during and after the tests.
During the test period, the PER was less than 10%.
The measured acoustic interference ratio are less than 20dB.

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5.2.3 Fast Transients (EFT)

RESULT:

Pass

Test Specification

Test standard : EN 301 489-1 V2.2.3
EN 301 489-17 V3.3.1
EN 55035:2017+A11:2020
Basic standard : EN 61000-4-4: 2004
IEC 61000-4-4: 2012
Test Requirement : Clause 9.4.1 of EN 301 489-1 V2.2.3
Table 4 of EN 55035:2017+A11:2020
Test level : $\pm 1\text{kV}$
Test duration : $\geq 60\text{sec}$
Rise time : 5/50ns
Repetition frequency : 5kHz
Criterion : Clause 6.4 of EN 301 489-17 V3.3.1
Clause 8 and Annex G of EN 55035:2017+A11:2020

Test Setup

Date of testing : 2025-06-26 to 2025-07-11
Test voltage : DC 5V via Type-C interface or battery
Operation mode : B
Test ports : AC mains terminals
Earthing : Not connected
Test configuration : Table-top
Ambient temperature : 23.9 °C
Relative humidity : 52.8 %
Atmospheric pressure : 101.4 kPa

Table 8: Test result of Electrical Fast Transients (EFT)

Test Mode	Coupling Method	Coupling Port	Test Level	Actual Performance
B	Direct Injection	Live + Neutral	$\pm 1\text{kV}$ on AC	A*

*Remark: No degradation was observed during and after the tests.

During the test period, the PER was less than 10%.

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5.2.4 Surge

RESULT:

Pass

Test Specification

Test standard : EN 301 489-1 V2.2.3
EN 301 489-17 V3.3.1
EN 55035:2017+A11:2020
Basic standard : EN 61000-4-5: 2006
IEC 61000-4-5: 2005
Test Requirement : Clause 9.8.1 of EN 301 489-1 V2.2.3
Table 4 of EN 55035:2017+A11:2020
Test level : $\pm 1\text{kV}$
Number of surges : 5 (for each combination of parameters)
Repetition rate : Max. 1/min
Criterion : Clause 6.4 of EN 301 489-17 V3.3.1
Clause 8 and Annex G of EN 55035:2017+A11:2020

Test Setup

Date of testing : 2025-06-26 to 2025-07-11
Test voltage : DC 5V via Type-C interface or battery
Operation mode : B
Test ports : AC mains terminals
Earthing : Not connected
Test configuration : Table-top
Ambient temperature : 24.0 °C
Relative humidity : 52.9 %
Atmospheric pressure : 101.4 kPa

Table 9: Test result of Surge

Test Mode	Coupling Port	Test Level ($\pm\text{kV}$)	Coupling Phase	Actual Performance
B	AC mains power port	$\pm 1.0\text{ kV line to line}$	0	A*
			$\pi/2$	A*
			π	A*
			$3\pi/2$	A*

*Remark: No degradation was observed during and after the tests.
During the test period, the PER was less than 10%.

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5.2.5 Radio-Frequency Continuous Conducted (CS)

RESULT:

Pass

Test Specification

Test standard	: EN 301 489-1 V2.2.3 EN 301 489-17 V3.3.1 EN 55035:2017+A11:2020
Basic standard	: EN 61000-4-6: 2007 IEC 61000-4-6: 2008
Test Requirement	: Clause 9.5.1 of EN 301 489-1 V2.2.3 Table 4 of EN 55035:2017+A11:2020
Frequency range	: 0.15 - 80 MHz
Source impedance	: 150Ω For EN 301 489-1: 3V, (unmodulated, r.m.s.) For EN 55035:
Test level	: 3V, (unmodulated, r.m.s.) (150KHz – 10MHz) 3 to 1V (unmodulated, r.m.s.) (10MHz – 30MHz), 1V (unmodulated, r.m.s.) (30MHz – 80MHz)
Modulation	: AM 80%, 1kHz sine-wave
Sweep mode	: automatic
Sweep rate	: $<1.5 \times 10^{-3}$ decade / sec.
Criterion	: Clause 6.3 of EN 301 489-17 V3.3.1 Clause 8 and Annex G of EN 55035:2017+A11:2020

Test Setup

Date of testing	: 2025-06-26 to 2025-07-11
Test voltage	: DC 5V via Type-C interface or battery
Operation mode	: B
Test ports	: AC mains terminals
Earthing	: Not connected Table-top
Test configuration	: Test setup according to Figure G.2 of EN 55035:2017+A11:2020 (Microphone, Filter and Audio Meter are all integrated into the Audio Analyzer already)
Ambient temperature	: 23.4 °C
Relative humidity	: 52.7 %
Atmospheric pressure	: 101.4 kPa

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Table 10: Test result of Injected Currents / Conducted Susceptibility (CS), for EN 301 489-1

Test Frequency Band	Coupling Method	Test Port	Test Level	Actual Performance
150KHz – 80MHz	Direct Injection	AC mains power port	3.0 V	A*

Table 11: Test result of Injected Currents / Conducted Susceptibility (CS), for EN 55035

Test Frequency Band	Coupling Method	Test Port	Test Level	Actual Performance
150KHz – 10MHz	Direct Injection	AC mains power port	3.0 V	A*
10MHz – 30MHz	Direct Injection	AC mains power port	3.0V to 1.0V	A*
30MHz – 80MHz	Direct Injection	AC mains power port	1.0 V	A*

*Remark: No degradation was observed during and after the tests.
During the test period, the PER was less than 10%.

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5.2.6 Voltage Dips and Interruptions

RESULT:

Pass

Test Specification

Test standard	: EN 301 489-1 V2.2.3 EN 301 489-17 V3.3.1 EN 55035:2017+A11:2020
Basic standard	: EN 61000-4-11: 2004 IEC 61000-4-11: 2004
Test Requirement	: Clause 9.7.1 of EN 301 489-1 V2.2.3 Table 4 of EN 55035:2017+A11:2020
Test level and durations	: Voltage Dips: 100% reduction for 0.5 period 100% reduction for 1 periods 30% reduction for 25 periods for 50Hz 30% reduction for 30 periods for 60Hz Voltage interruptions: 0% reduction for 250 period for 50Hz 0% reduction for 300 period for 60Hz
Criterion	: Clause 6.4 of EN 301 489-17 V3.3.1

Test Setup

Date of testing	: 2025-06-26 to 2025-07-11
Test voltage	: DC 5V via Type-C interface or battery
Operation mode	: B
Test ports	: AC mains terminals
Earthing	: Not connected
Test configuration	: Table-top
Ambient temperature	: 24.6 °C
Relative humidity	: 51.2 %
Atmospheric pressure	: 101.4 kPa

Table 12: Test result of Voltage Dips and Interruptions

Test Mode	Coupling Port	Voltage Reduction (%)	Reduction Duration (in Period)	Actual Performance
B	AC mains power port	100%	0.5	A*
		100%	1	A*
		30%	25 for 50Hz 30 for for 60Hz	A*
		100%	250 for 50Hz 300 for for 60Hz	B**

*Remark: No degradation was observed during and after the tests.

**Remark: The EUT stop charging during testing, but can recover to normal charging operation by itself after test.

During the test period, the PER was less than 10%.

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5.2.7 Power-Frequency Magnetic Fields

RESULT:

Not applicable

Test Specification

Test standard	: EN 55035:2017+A11:2020
Basic standard	: IEC 61000-4-8: 2009
Test Requirement	: Clause 4.2.3 of EN 55035:2017+A11:2020
Test Frequency	: 50 & 60Hz
Test level	: 1A/m (r.m.s.)
Criterion	: Clause 8 and Annex G of EN 55035:2017+A11:2020

Exemption Conditions:

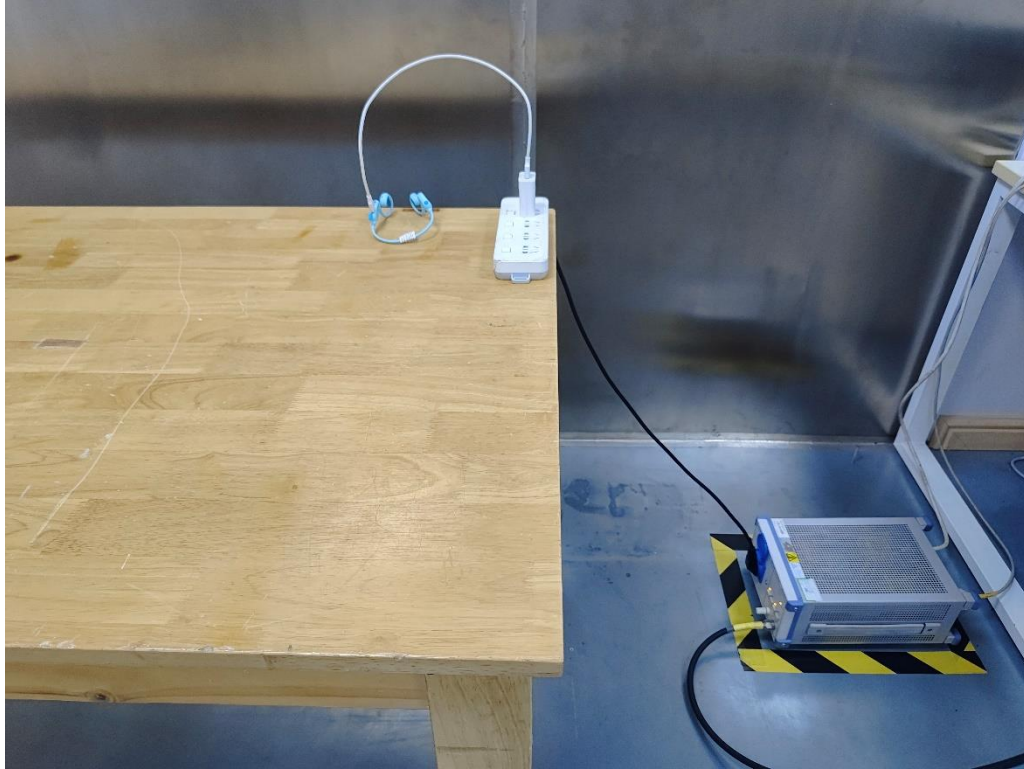
According to note a of table 1, clause 5 of EN 55035:2017+A11:2020, this test applicable only to equipment containing devices intrinsically susceptible to magnetic fields, such as CRT monitors, Hall effect elements, electro-dynamic microphones, magnetic field sensors or audio frequency transformers.

Conclusion:

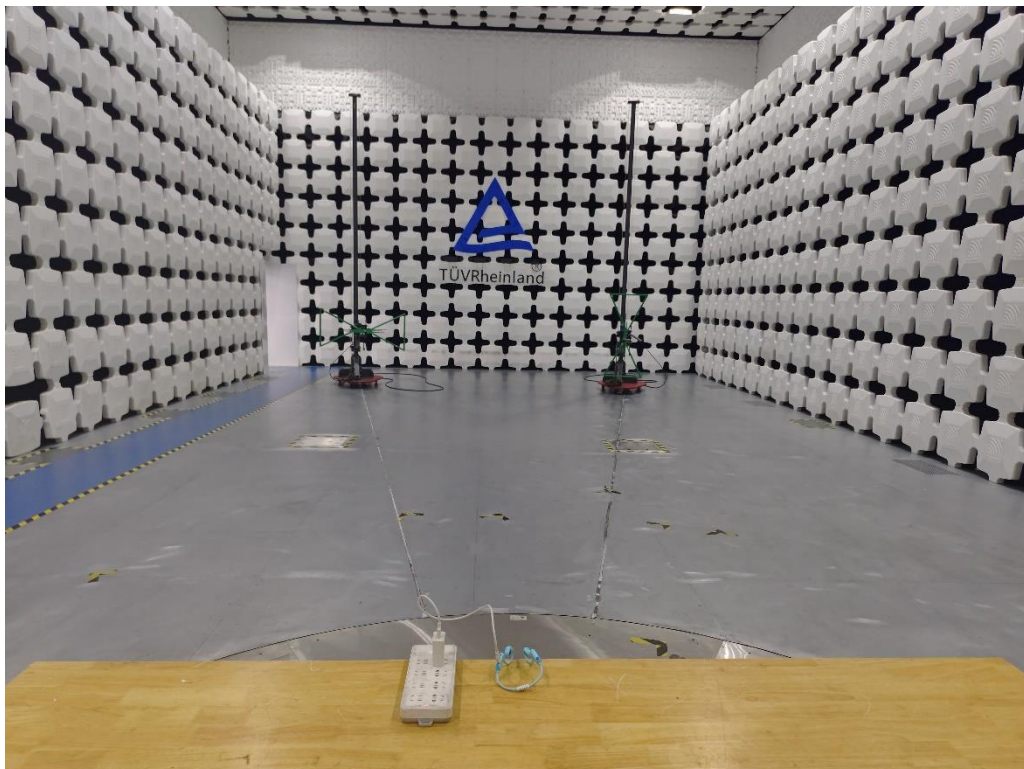
The EUT doesn't containing devices intrinsically susceptible to magnetic fields, hence this requirement is not applicable.

6 Photographs of the Test Set-Up

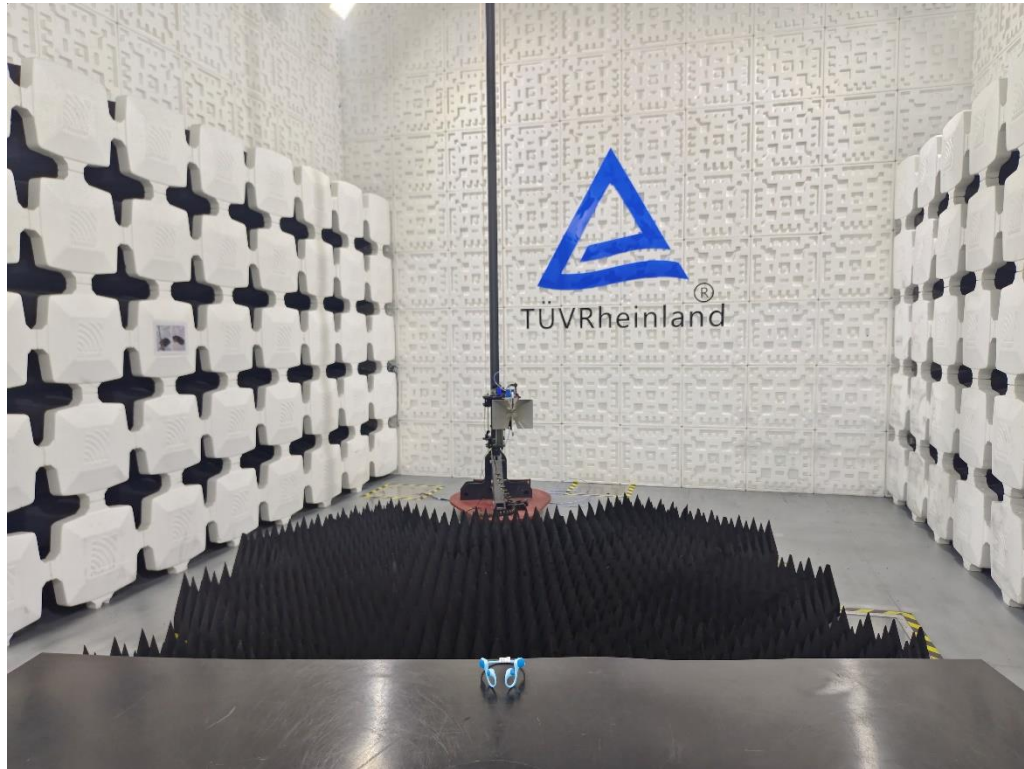
Photograph 1: Set-up for Conducted Emission on AC Mains



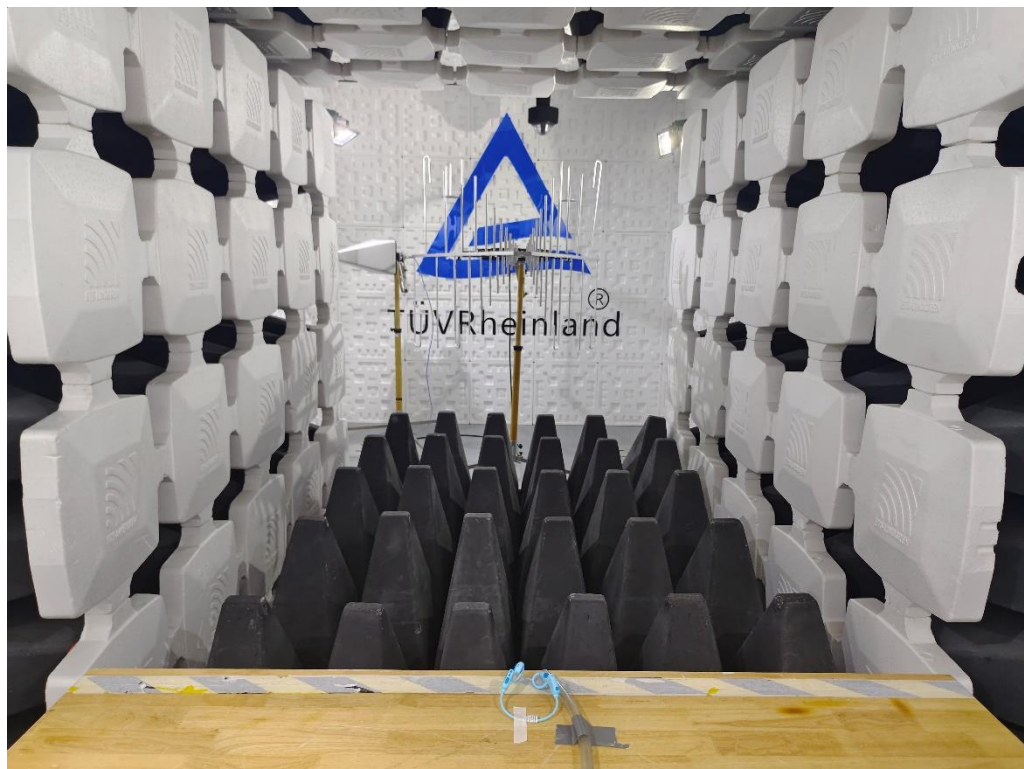
Photograph 2: Set-up for Radiated Emission, Below 1GHz



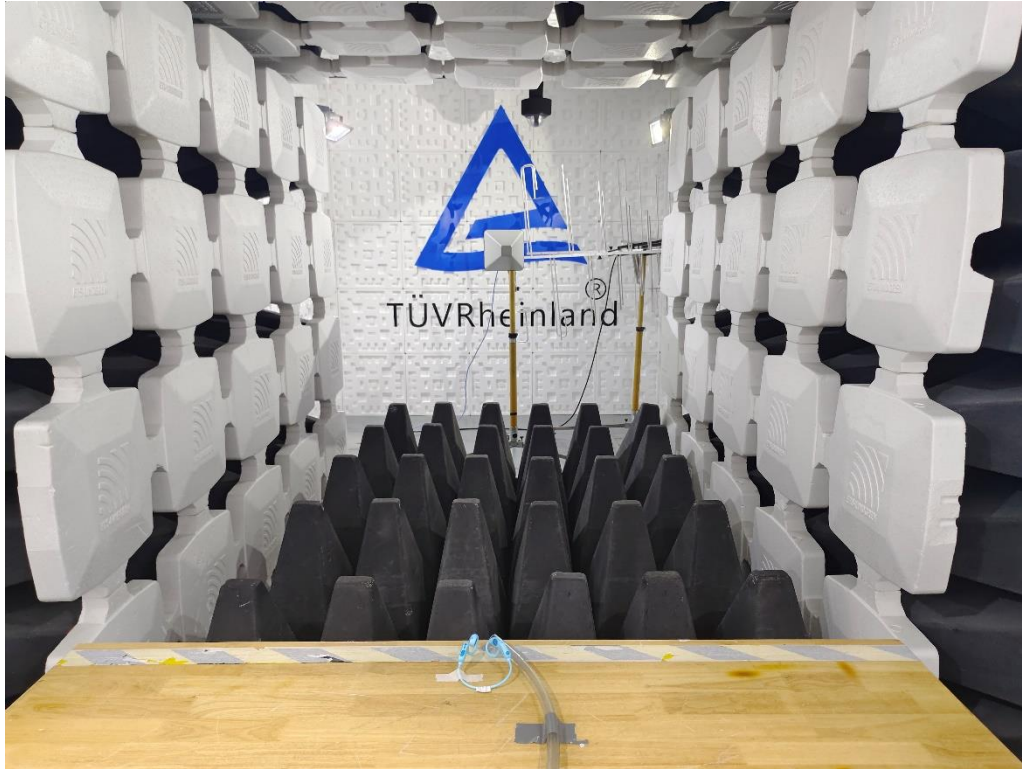
Photograph 3: Set-up for Radiated Emission, Above 1GHz



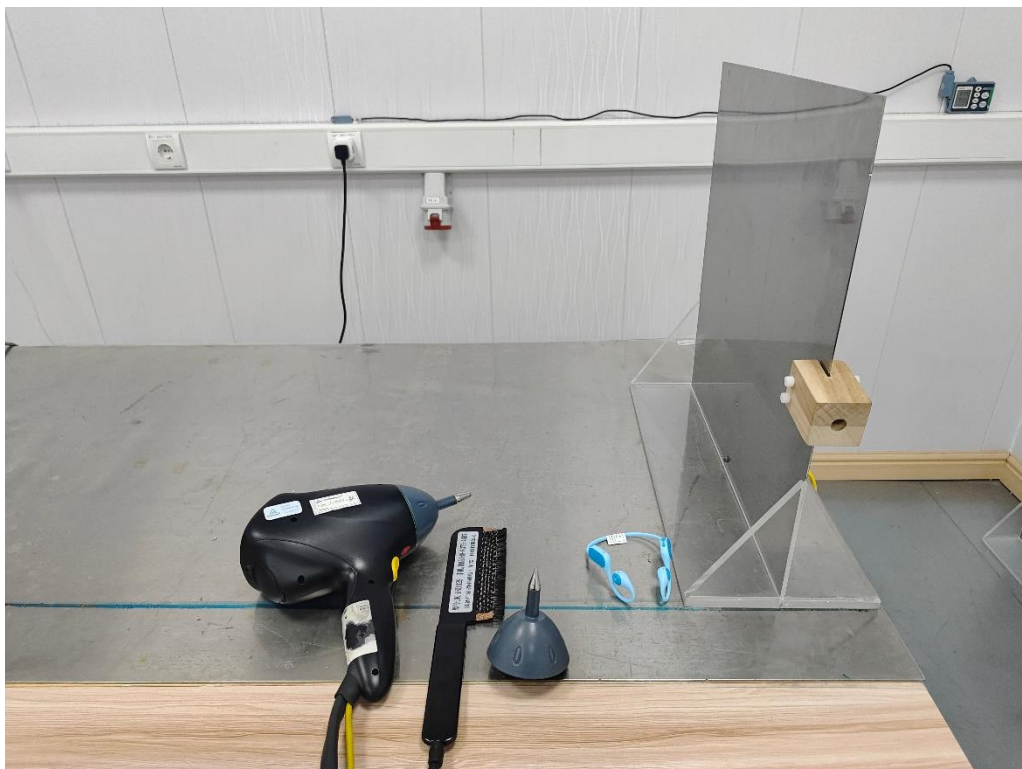
Photograph 4: Set-up for Radio Frequency Electromagnetic Fie(RS, 80MHz-1GHz)



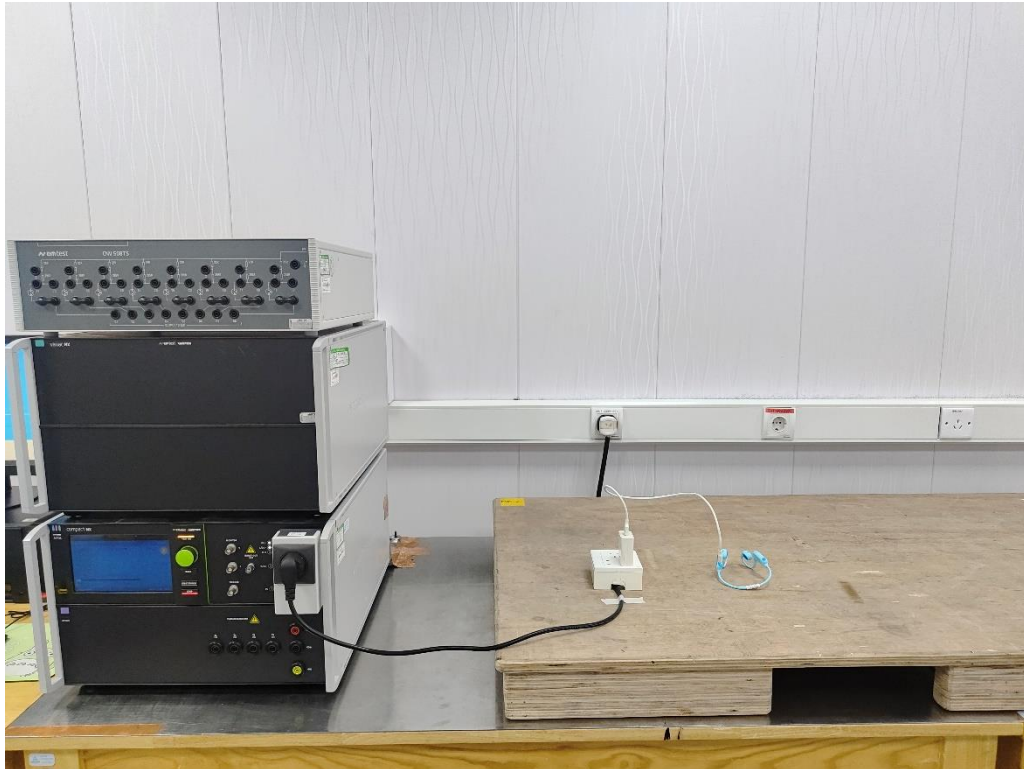
Photograph 5: Set-up for Radio Frequency Electromagnetic Fie(RS, 1GHz-6GHz)



Photograph 6: Setup for Electrostatic Discharges (ESD)



Photograph 7: Setup for Fast Transients (EFT), Surge, Voltage dips and interruptions, AC mains



Photograph 8: Setup for Radio-frequency continuous conducted (CS), AC mains



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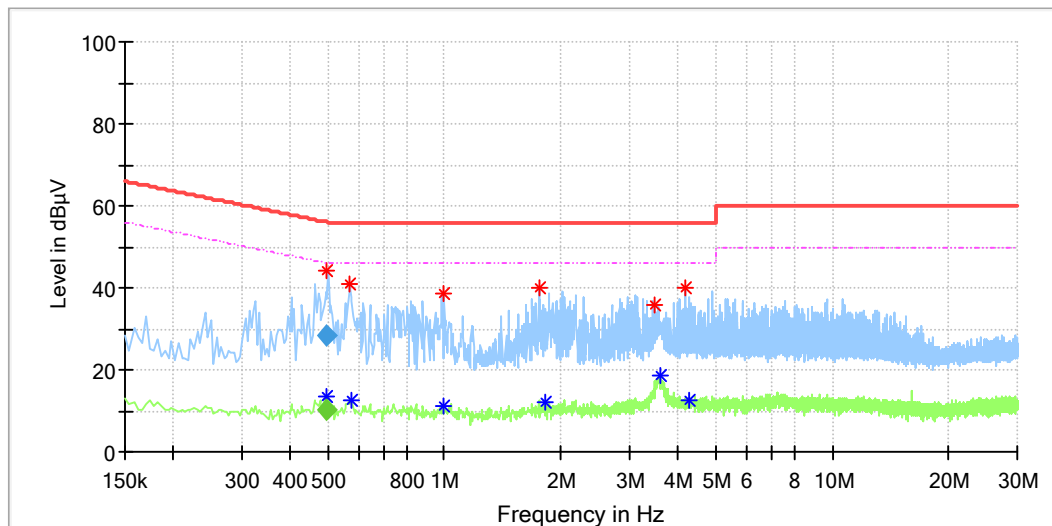
Appendix A: Test Results of Article 3.1b EMC Requirements

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Appendix A.1: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: BLUETOOTH HEADSET
Model: JUNIOR FREE
Test Mode: Charging by adapter
Test Voltage: AC 230V/50Hz
Test Standard: EN 301489-1/17
Test By:/Review By: Solomon Wu/Murphy Chen
Tem./Hum./Pressure: 24.5°C/52.3%/101kPa
Remark: SR 3



Critical Freqs

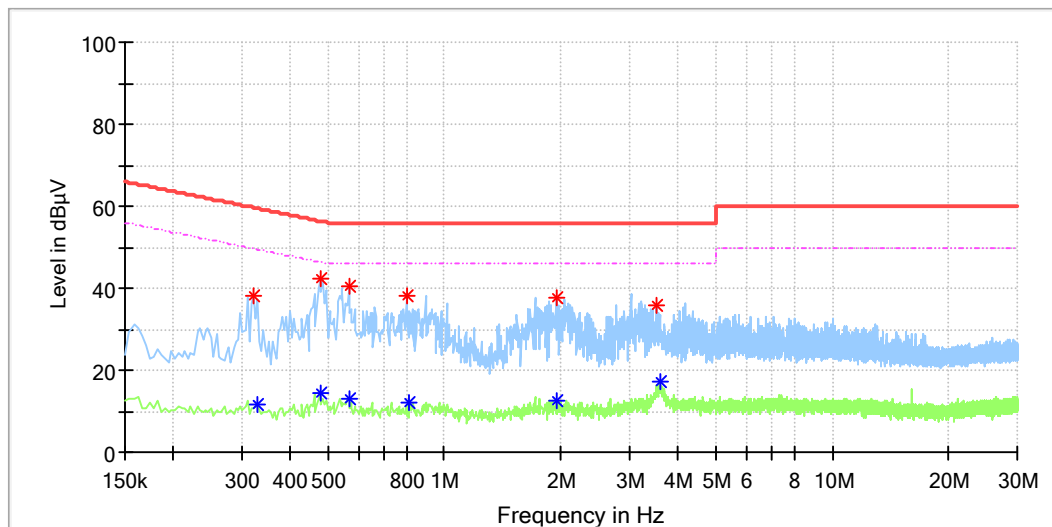
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.497500	---	13.70	46.00	32.30	L1	9.9
0.497500	44.11	---	56.00	11.89	L1	9.9
0.570000	41.07	---	56.00	14.93	L1	9.9
0.578000	---	12.58	46.00	33.42	L1	9.9
0.990000	---	11.12	46.00	34.88	L1	9.9
0.998000	38.54	---	56.00	17.46	L1	9.9
1.750000	40.22	---	56.00	15.78	L1	10.0
1.822000	---	12.27	46.00	33.73	L1	10.0
3.486000	35.87	---	56.00	20.13	L1	10.1
3.606000	---	18.52	46.00	27.48	L1	10.1
4.174000	39.86	---	56.00	16.14	L1	10.1
4.262000	---	12.44	46.00	33.56	L1	10.1

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.497500	---	10.20	46.04	35.84	1000.0	9.000	L1	9.9
0.497500	28.56	---	56.04	27.48	1000.0	9.000	L1	9.9

EUT Information

EUT Name: BLUETOOTH HEADSET
Model: JUNIOR FREE
Test Mode: Charging by adapter
Test Voltage: AC 230V/50Hz
Test Standard: EN 301489-1/17
Test By./Review By: Soloman Wu/Murphy Chen
Tem./Hum./Pressure: 24.5°C/52.3%/101kPa
Remark: SR 3



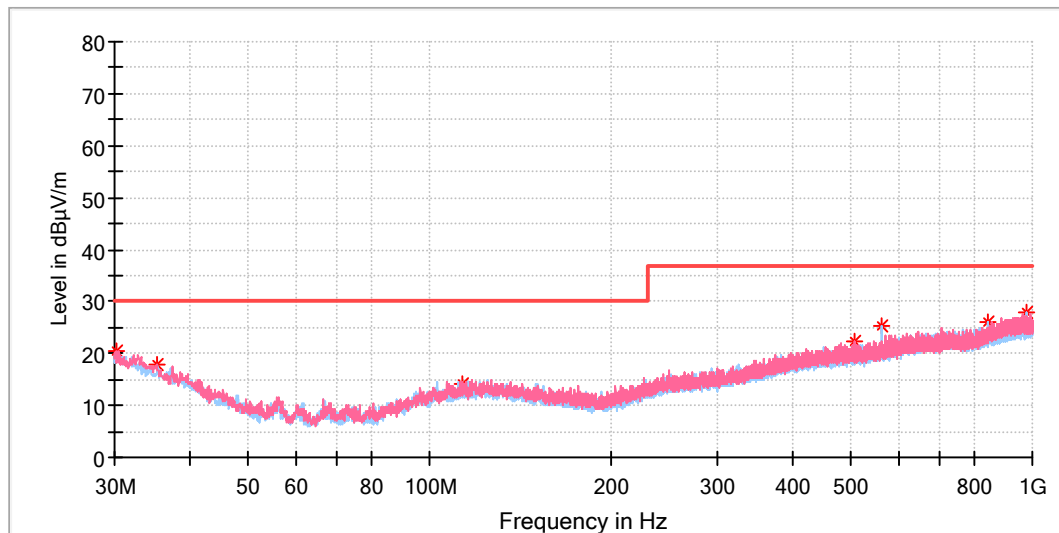
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.322000	37.92	---	59.66	21.74	N	9.7
0.330000	---	11.69	49.45	37.76	N	9.7
0.478000	42.44	---	56.37	13.93	N	9.7
0.478000	---	14.55	46.37	31.82	N	9.7
0.566000	---	13.25	46.00	32.75	N	9.7
0.566000	40.62	---	56.00	15.38	N	9.7
0.798000	38.05	---	56.00	17.95	N	9.7
0.814000	---	12.00	46.00	34.00	N	9.7
1.938000	---	12.74	46.00	33.26	N	9.8
1.938000	37.88	---	56.00	18.12	N	9.8
3.514000	35.80	---	56.00	20.20	N	9.8
3.586000	---	17.04	46.00	28.96	N	9.8

Appendix A.2: Test Results of Radiated Emission, Below 1GHz

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	JUNIOR FREE
Test Mode:	Bluetooth playing
Test Voltage:	Battery
Test Standard:	EN 301489-1/17
Test By:/Review By:	Soloman Wu/Shower Dai
Tem./Hum./Pressure:	24.6°C/51.4%/101kPa
Remark:	10m SAC

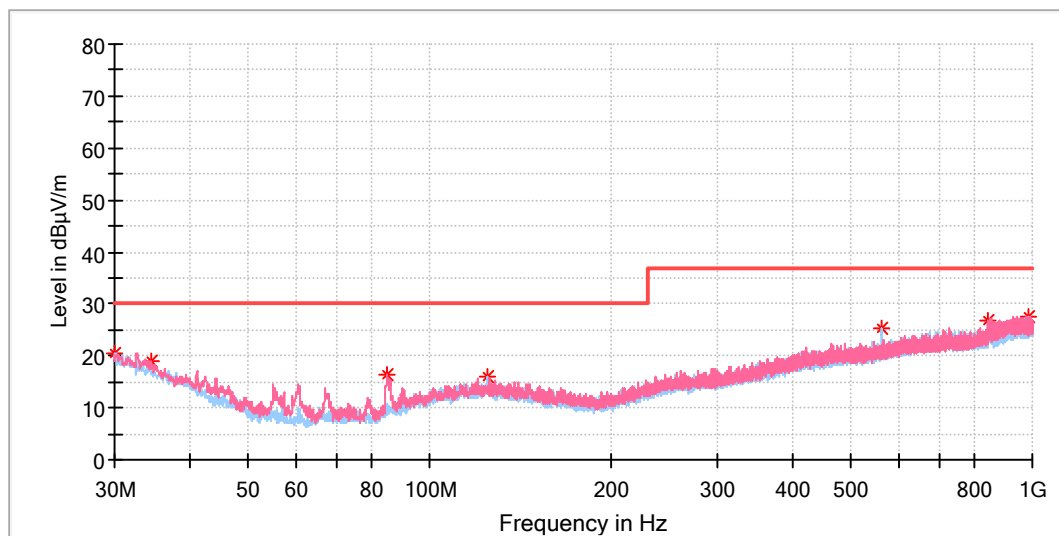


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.161667	20.49	30.00	9.51	100.0	V	324.0	-4.2
35.227222	17.79	30.00	12.21	100.0	V	263.0	-7.0
113.635556	14.16	30.00	15.84	200.0	H	248.0	-11.6
507.078333	22.47	37.00	14.53	100.0	V	43.0	-2.6
561.613889	25.45	37.00	11.55	100.0	H	268.0	-4.0
845.716111	26.00	37.00	11.00	100.0	H	0.0	-1.0
977.690000	27.87	37.00	9.13	200.0	H	275.0	1.0

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	JUNIOR FREE
Test Mode:	Charging by adapter
Test Voltage:	AC 230V/50Hz
Test Standard:	EN 301489-1/17
Test By:/Review By:	Soloman Wu/Shower Dai
Tem./Hum./Pressure:	24.6°C/51.4%/101kPa
Remark:	10m SAC



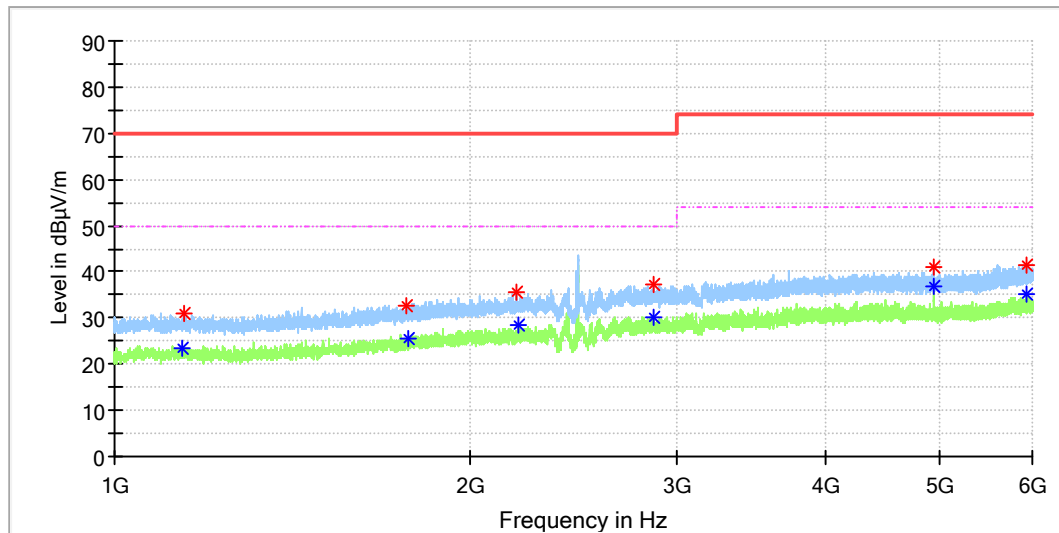
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.107778	20.62	30.00	9.38	100.0	H	319.0	-5.1
34.418889	19.08	30.00	10.92	100.0	V	47.0	-6.6
85.182222	16.27	30.00	13.73	200.0	V	225.0	-13.8
124.305556	16.10	30.00	13.90	100.0	H	14.0	-11.2
561.613889	25.23	37.00	11.77	200.0	H	263.0	-4.0
844.853889	26.70	37.00	10.30	200.0	V	0.0	1.8
988.144444	27.63	37.00	9.37	200.0	H	281.0	1.1

Appendix A.3: Test Results of Radiated Emission, Above 1GHz

EUT Information

EUT Name: BLUETOOTH HEADSET
Model: JUNIOR FREE
Test Mode: Bluetooth playing
Test Voltage: Battery
Test Standard: EN 301 489-1
Test By./Review By: Soloman Wu/ Murphy Chen
Tem./Hum./Pressure: 23.6°C/51.5%/101kPa
Remark: 3m chamber

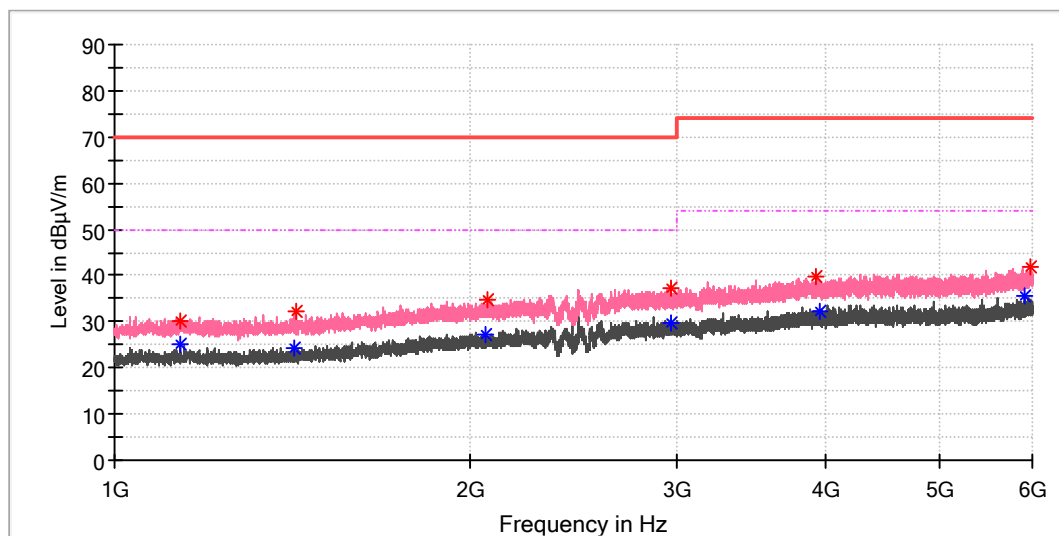


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1142.50	---	23.28	50.00	26.72	100.0	H	269.00	-11.42
1143.44	31.05	---	70.00	38.95	100.0	H	325.00	-11.42
1768.44	32.81	---	70.00	37.19	200.0	H	225.00	-9.24
1771.56	---	25.70	50.00	24.30	200.0	H	298.00	-9.22
2192.50	35.75	---	70.00	34.25	200.0	H	284.00	-7.41
2198.44	---	28.52	50.00	21.48	200.0	H	173.00	-7.39
2862.50	37.10	---	70.00	32.90	200.0	H	0.00	-4.49
2863.75	---	29.94	50.00	20.06	200.0	H	46.00	-4.48
4952.19	---	36.68	54.00	17.32	300.0	H	173.00	1.50
4952.19	40.90	---	74.00	33.10	300.0	H	173.00	1.50
5928.13	41.44	---	74.00	32.56	100.0	H	22.00	3.78
5928.75	---	35.08	54.00	18.92	100.0	H	240.00	3.78

EUT Information

EUT Name: BLUETOOTH HEADSET
Model: JUNIOR FREE
Test Mode: Bluetooth playing
Test Voltage: Battery
Test Standard: EN 301 489-1
Test By./Review By: Soloman Wu/ Murphy Chen
Tem./Hum./Pressure: 23.6°C/51.5%/101kPa
Remark: 3m chamber



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1135.63	30.04	---	70.00	39.96	100.0	V	232.00	-11.44
1138.44	---	24.91	50.00	25.09	100.0	V	148.00	-11.43
1421.56	---	24.20	50.00	25.80	200.0	V	0.00	-10.74
1427.50	32.26	---	70.00	37.74	200.0	V	88.00	-10.72
2059.38	---	27.40	50.00	22.60	100.0	V	179.00	-7.94
2068.44	34.72	---	70.00	35.28	100.0	V	301.00	-7.90
2960.00	37.21	---	70.00	32.79	100.0	V	49.00	-4.08
2965.31	---	29.90	50.00	20.10	100.0	V	148.00	-4.06
3935.31	39.87	---	74.00	34.13	100.0	V	325.00	-0.48
3962.81	---	32.37	54.00	21.63	100.0	V	12.00	-0.41
5909.38	---	35.45	54.00	18.55	100.0	V	156.00	3.74
5977.19	41.76	---	74.00	32.24	100.0	V	111.00	3.87