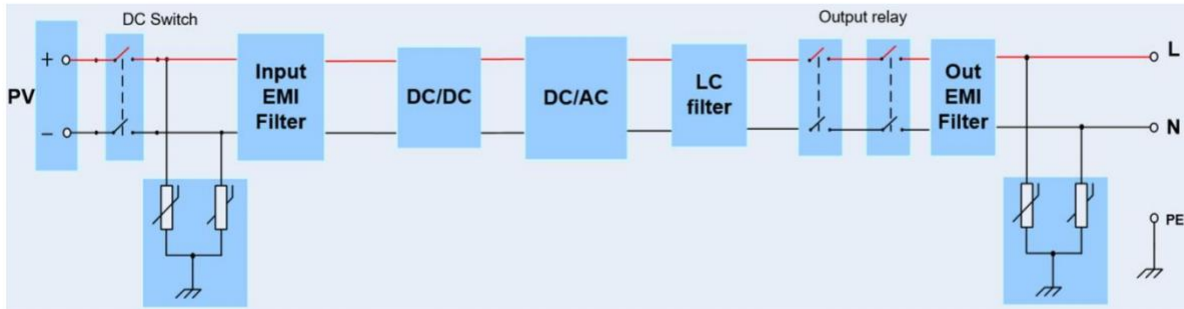


MIC 600TL-X Wechselrichter Klarstellung

Growatt hat SGS (das weltweit führende Prüf-, Inspektions- und Zertifizierungsunternehmen) damit beauftragt, eine Prüfung von 10x Growatt MIC 600TL-X-Wechselrichtern, die zufällig aus unserem Warenlager entnommen wurden, durchzuführen.

Das Topologie-Diagramm des Wechselrichters ist unten abgebildet, mit 2 Sets an NA-Schutzrelais:



Der Wechselrichter wurde vor der Prüfung in die deutsche Ländereinstellung gesetzt, die Prüfung umfasste die folgenden zwei Teile:

- Die Abschaltzeit nach VDE-AR-N 4105:2018-11
- Die Überspannung bei Umschaltung nach IEEE1547.1-2020, da es keine Anforderung nach VDE-AR-N 4105:2018-11 gibt.

Die 10x MIC 600TL-X Wechselrichter aus dem Lager haben beide Tests bestanden und zeigen, dass die Wechselrichter die VDE-AR-N 4105:2018-11 Vorschriften erfüllen, siehe Prüfberichte:

Abschaltzeit nach VDE-AR-N 4105:2018-11, Bericht Nr. GZES230801495902.

Die Überspannung bei Umschaltung nach IEEE1547.1-2020, Bericht Nr. GZES230801495901.

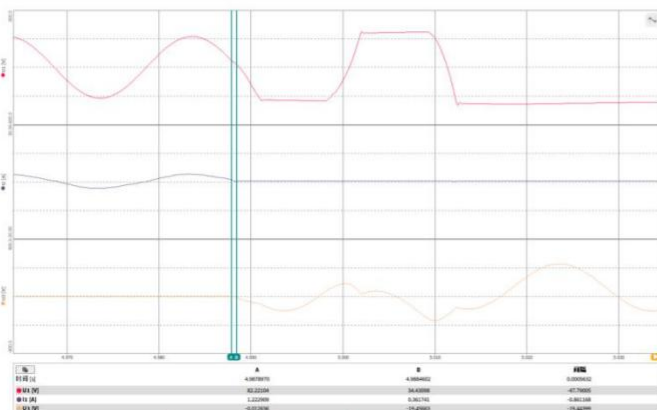
Während des Tests stellte SGS klar, dass die Abschaltzeit die Zeit ist, in der der AC-Trennschalter ausschaltet, um das interne Relais des Wechselrichters auszuschalten, und der SGS-Bericht zeigt diesen Wert. In diesem Fall schaltet das Relais des Wechselrichters innerhalb von 10 ms ab. Die in der Publikation angegebene Prüfzeit wurde anhand der Zeit berechnet, in der die Spannung auf 0 V reduziert wird, was sich von der in VDE-AR-N 4105:2018-11 beschriebenen Anforderung unterscheidet.

U1: AC-Ausgangsspannung des Wechselrichters I

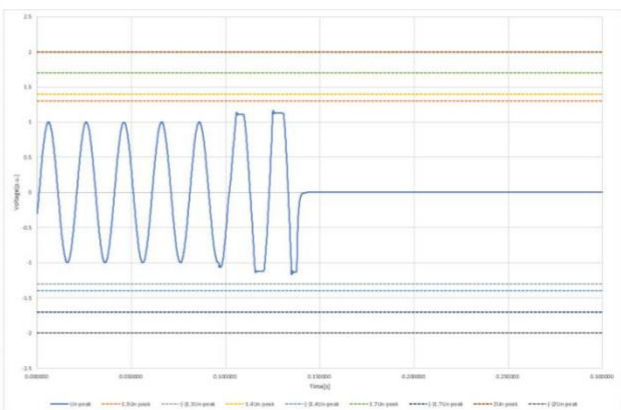
1: Ausgangsstrom des Wechselrichters

U3: AC-Schaltsignal

Un: AC-Ausgangsspannung des Wechselrichters



AC-Abschalttest



Überspannung beim Umschalten Funktionsprüfung

Wir haben viele Tests in unserem Labor durchgeführt und mit verschiedenen Softwareversionen getestet. Die Abschaltzeit war stets unter 10 ms, und der Spannungsabfall auf 0 V erfolgt in den meisten Fällen ebenfalls innerhalb von 200 ms. Wir haben jedoch festgestellt, dass bei einigen Softwareversionen die Zeit zwischen dem Ausschalten des Schutzschalters und dem Abfallen der Spannung auf 0 V länger als 200 ms sein könnte. Nach einer Aktualisierung der Firmware auf die neuste Version kann dieses Problem jedoch einfach vermieden werden.

Es gibt zwei Möglichkeiten, das Software-Update durchzuführen:

1. Aktualisierung über OSS: Wenn der MIC 600TL-X mit dem Online Monitoring verbunden ist, können wir eine Online-Aktualisierung durchführen; die Aktualisierung wird automatisch vom 23.08.2023 bis Ende des Monats durchgeführt.
2. Lokales Update per USB-Stick: Wenn der MIC 600TL-X nicht im Online-Monitoringsystem verbunden ist, werden wir die Firmware und die Aktualisierungsanleitung diese Woche bereitstellen. Die Firmware und die Anleitung können unter folgendem Link heruntergeladen werden:

https://drive.google.com/drive/folders/1NUzfZQguPG8EfCQg64lr0x3vmwo2RUY-?usp=drive_link

Shenzhen Growatt New Energy Co., Ltd



Zhu Peng (Unterschrift)

Regulation Compliance Manager

15.08.2023

Test report

Report No.: GZES230801495901

Date: 2023-08-15

The following sample was submitted and identified on behalf of the client as:

Applicant: Shenzhen Growatt New Energy Co., Ltd.
4-13/F, Building A, Sino-German(Europe)Industrial Park, Hangcheng Ave,
Bao'an District, Shenzhen, China

Testing location/address: SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
198 Kezhu Road, Science City, Economic & Technology Development Area,
Guangzhou, Guangdong, China

The standards/method: Test Load Rejection Overvoltage (LROV) according to clause 7.4.2 of IEEE Std 1547:2018 and clause 5.17.2 of IEEE Std 1547.1:2020

Test item description: PV Grid Inverter

Trade Mark: GROWATT

Model/Type for test: MIC 600TL-X

Variant Models N/A

Ratings: DC input: 50-500V, Max. 13A
AC output: L/N/PE 230Vac, 50Hz, Max. 2.9A, 600VA

Sample receipt date: 2023-08-09

Testing date: 2023-08-10 to 2023-08-11

Test result: Pass

Remark: Throughout this report a point is used as the decimal separator.
When determining for test conclusion, measurement uncertainty of tests has been considered.

Sunny Lin
Project Engineer

Roger Hu
Technical Reviewer



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LIST OF INSTALLATION COMPONENTS

CHARACTERISTICS OF THE TESTED SAMPLE (PV INVERTER)

Type of appliance:	PV Grid Inverter
Manufacturer / Distributor / Installer:	Shenzhen Growatt New Energy Co., Ltd.
Brand:	GROWATT
Model/ Type:	MIC 600TL-X
Series No.:	AEK2CB7006, AEK5CHQ00A, AEK5CHQ001, AEK5CHQ002, AEK5CHQ004, AEK5CHQ005, AEK5CHQ006, AEK5CHQ007, AEK5CHQ008, AEK5CHQ009
Software revision	GH1.0
Nominal characteristics:	DC input: 50-500V, Max. 13A AC output: L/N/PE 230Vac, 50Hz, Max. 2.9A, 600VA



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TEST DESCRIPTION:

The purpose of this test is to obtain necessary information for DER evaluation in order to verify the effects of the DER system on overvoltage on the area EPS when switching action creates a generation-load island. The EUT is tested at various output power and load combinations including no load.

- LROV test limit

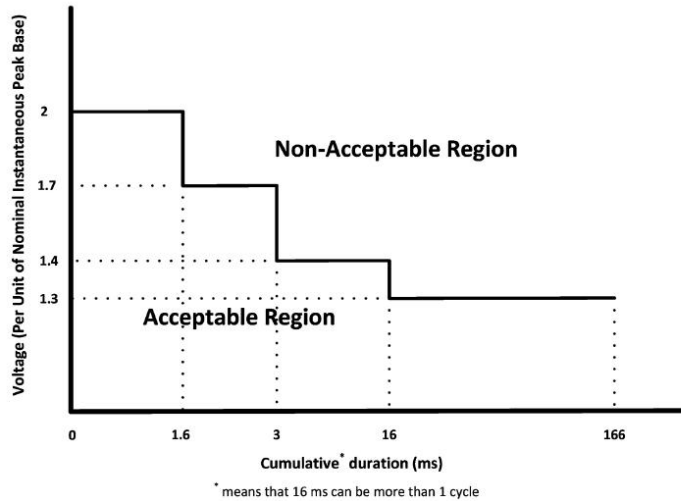


Figure 3 —Transient overvoltage limits

- LROV Test circuit

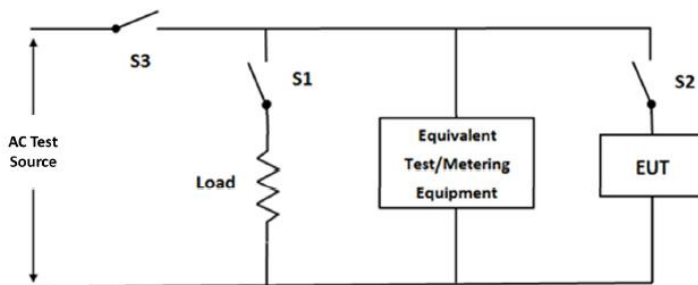


Figure 15—LROV test circuit

- LROV Test sequence



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Table 40—Tests to be performed

EUT output	Load value (percent of tested power level)			
	50%	33%	10%	0%
100%	Yes	Yes	Yes	Yes
66%	Yes	Yes	Yes	Yes
33%	No	No	Yes	Yes

Measurement equipment settings used for this test are shown in the following table:

Measurement device	Date of measurement	Recording	Sampling frequency
1820-POWR-4	2023/08/10 to 2023/08/11	100 ms	10 kHz



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1) Test-1: EUT output level = 100%P_{rated} & Load level = 50%P_{rated}

Serial Number: AEK2CB7006			
Test Condition			
AC Voltage (V)	AC Current (A)	EUT AC Power (W)	Consumption of Load value (W)
230.07	2.64	602.28	298.62
Region	Phase	Total Duration Meas. (ms)	Duration Limit (ms)
1.3*U _{n-peak} <U _{peak} <=1.4*U _{n-peak}	L1 to L2	0.0	16.0
1.4*U _{n-peak} <U _{peak} <=1.7*U _{n-peak}	L1 to L2	0.0	3.0
1.7*U _{n-peak} <U _{peak} <=2.0*U _{n-peak}	L1 to L2	0.0	1.6
U _{peak} >2.0*U _{n-peak}	L1 to L2	0.0	0.0
Result Chart			



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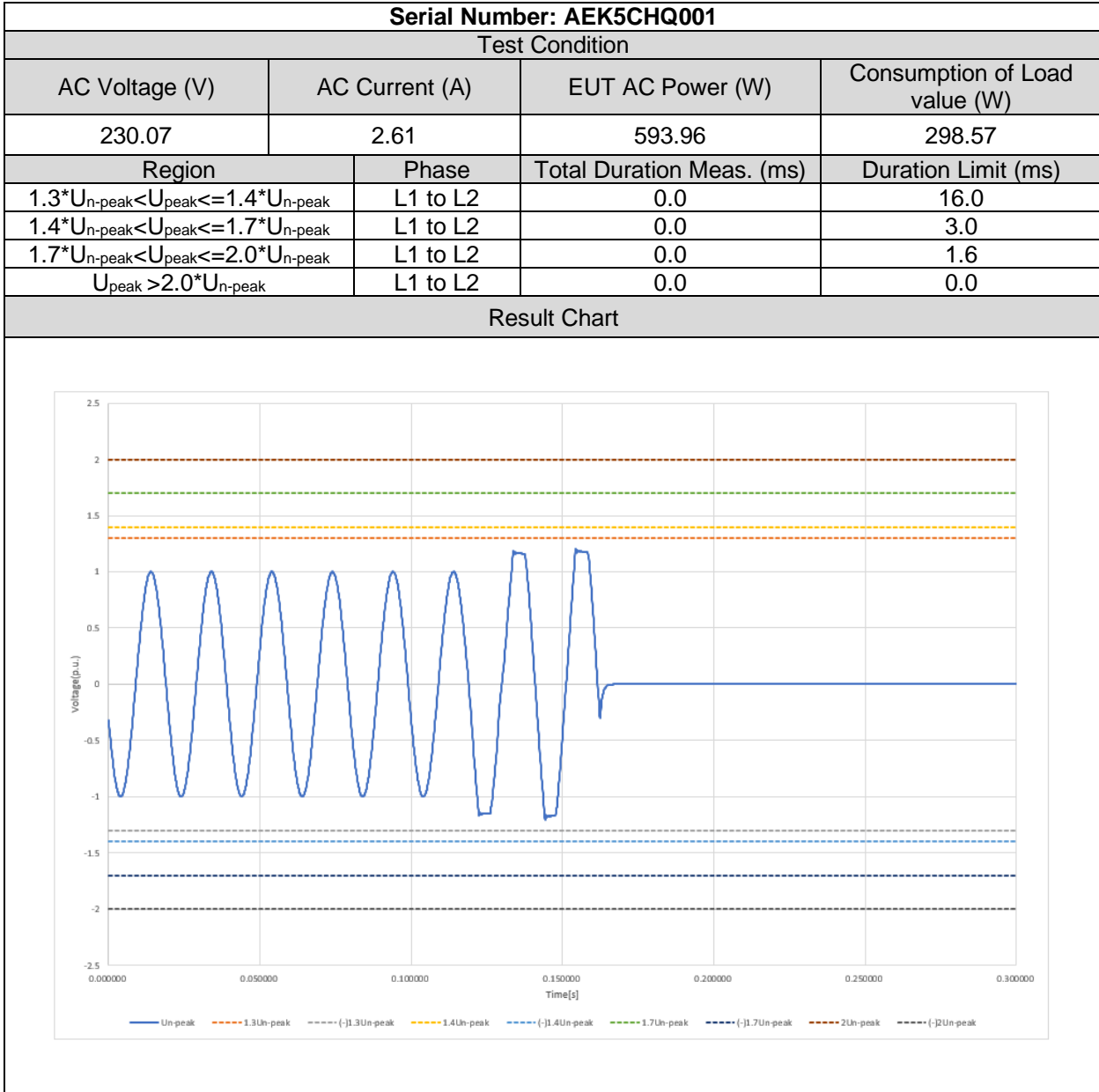
Serial Number: AEK5CHQ00A			
Test Condition			
AC Voltage (V)	AC Current (A)	EUT AC Power (W)	Consumption of Load value (W)
230.08	2.62	596.63	298.49
Region	Phase	Total Duration Meas. (ms)	Duration Limit (ms)
$1.3 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 1.4 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	16.0
$1.4 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 1.7 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	3.0
$1.7 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 2.0 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	1.6
$U_{\text{peak}} > 2.0 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	0.0

Result Chart	
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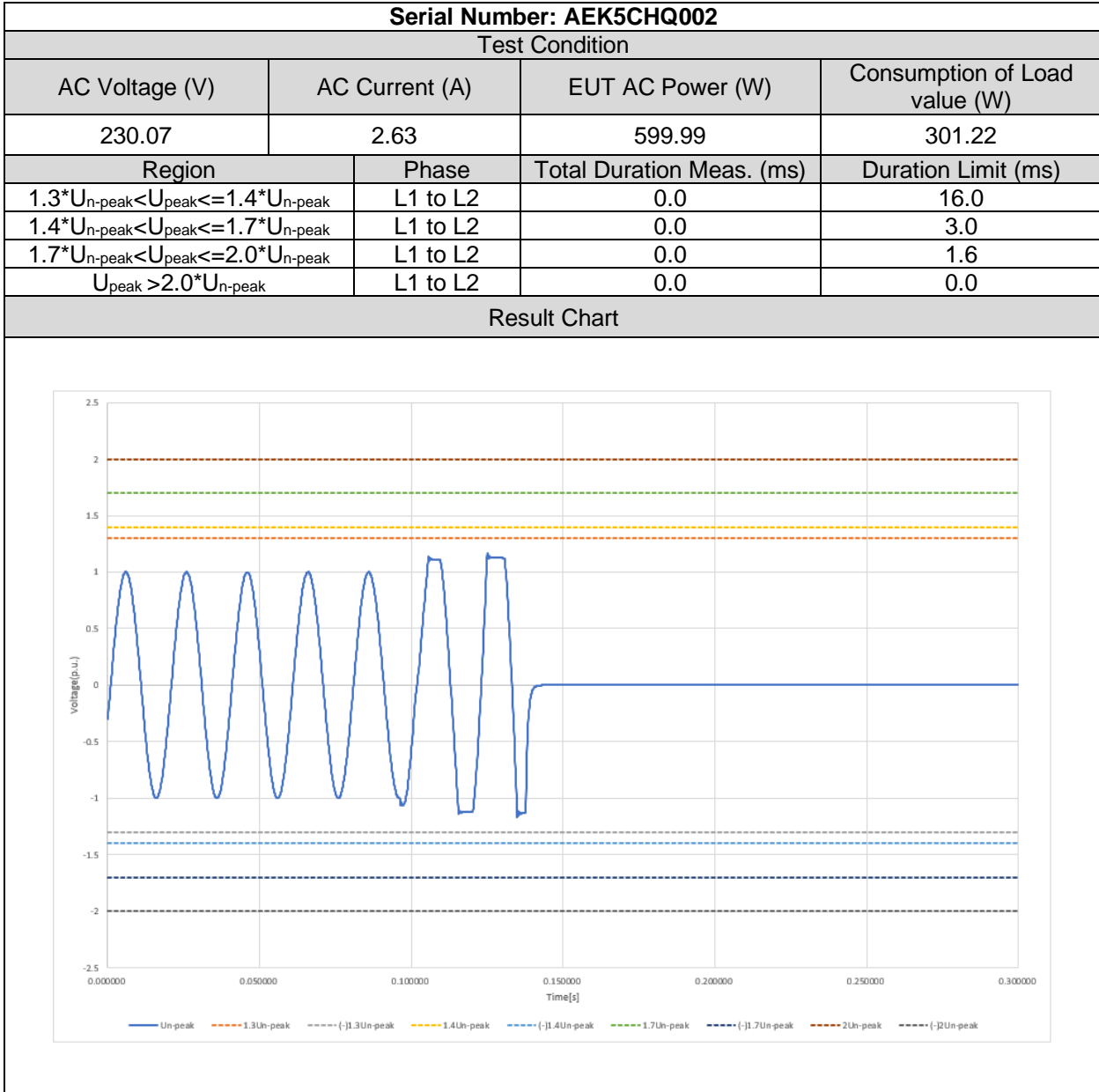
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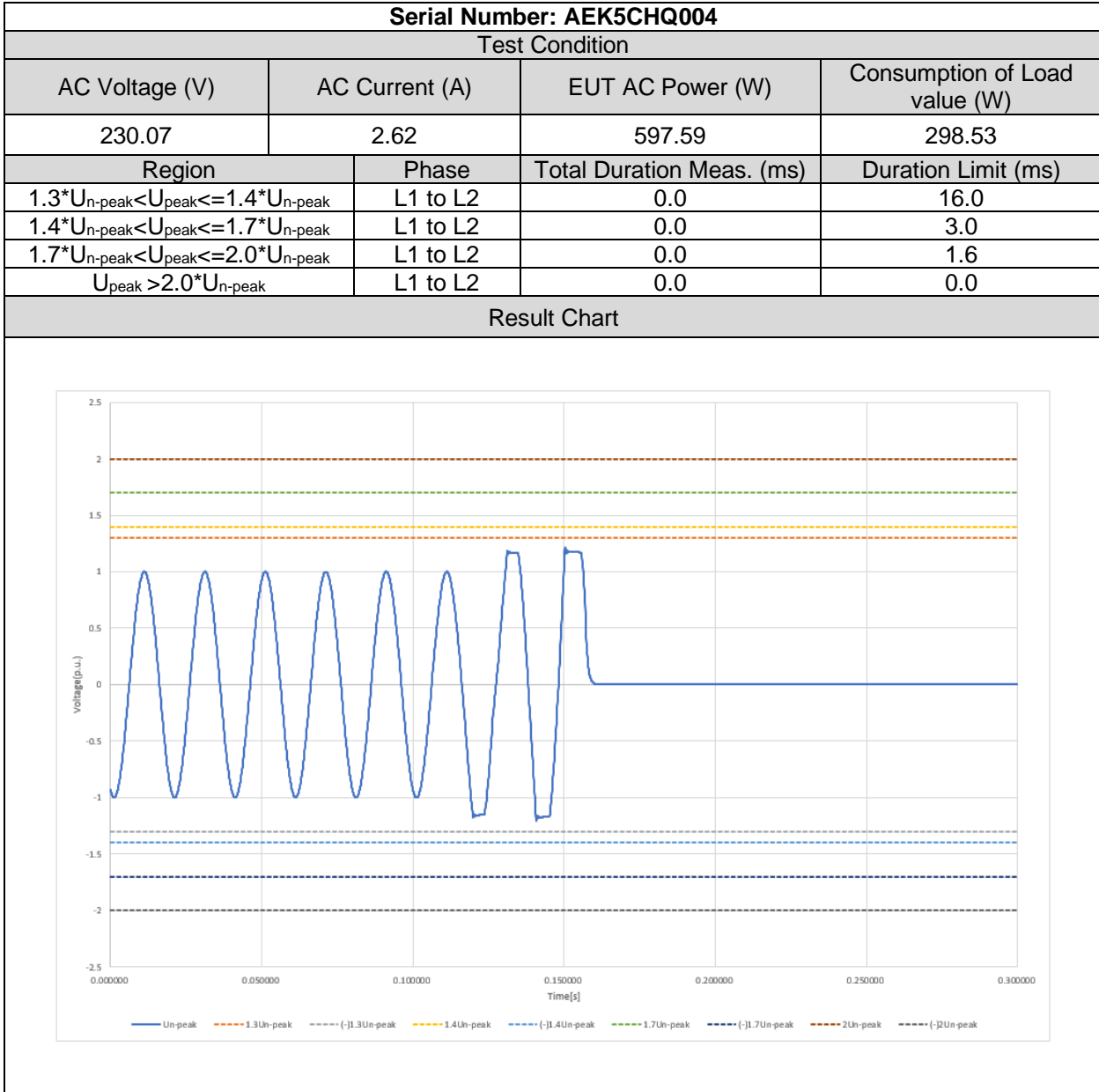
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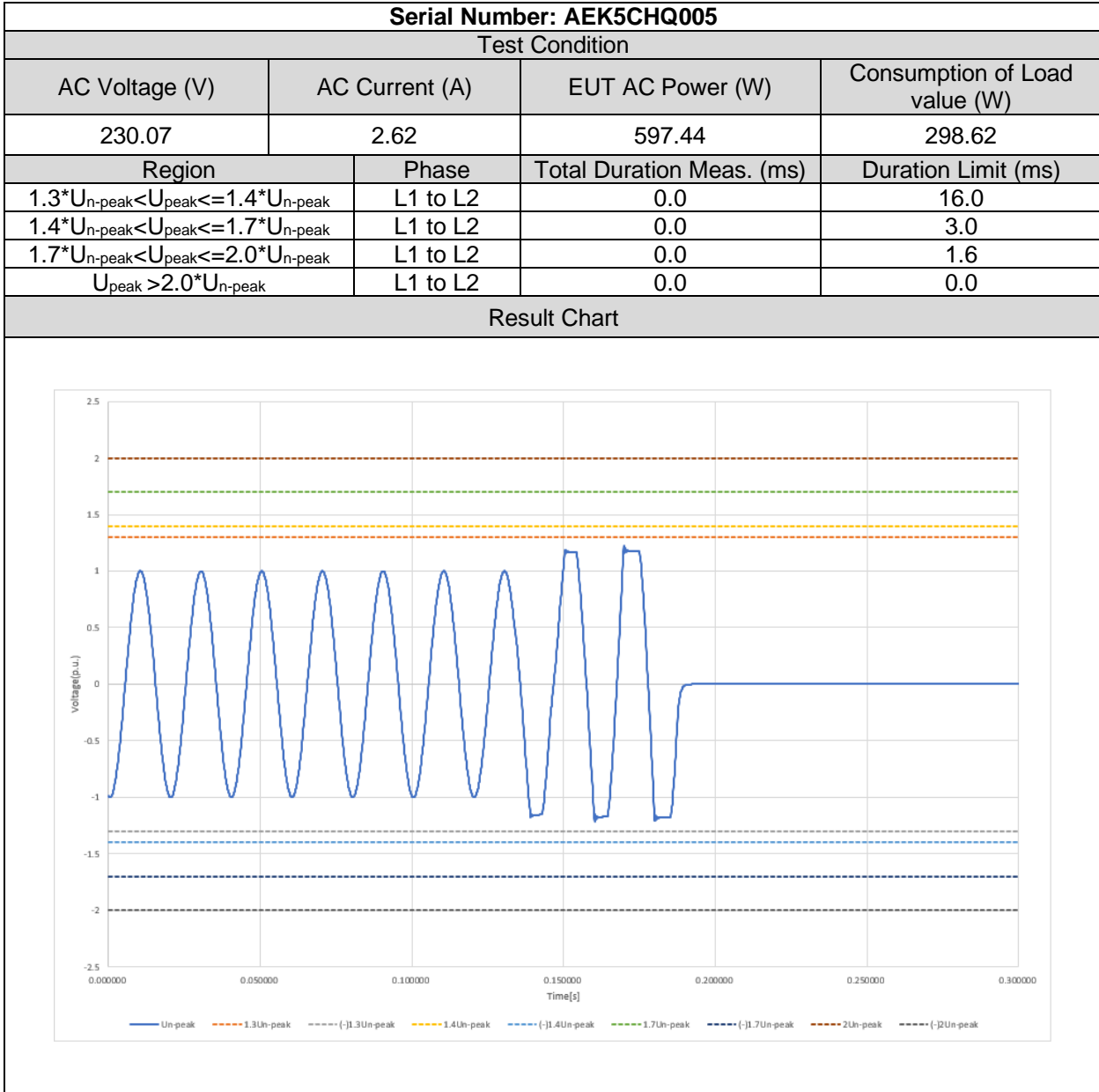
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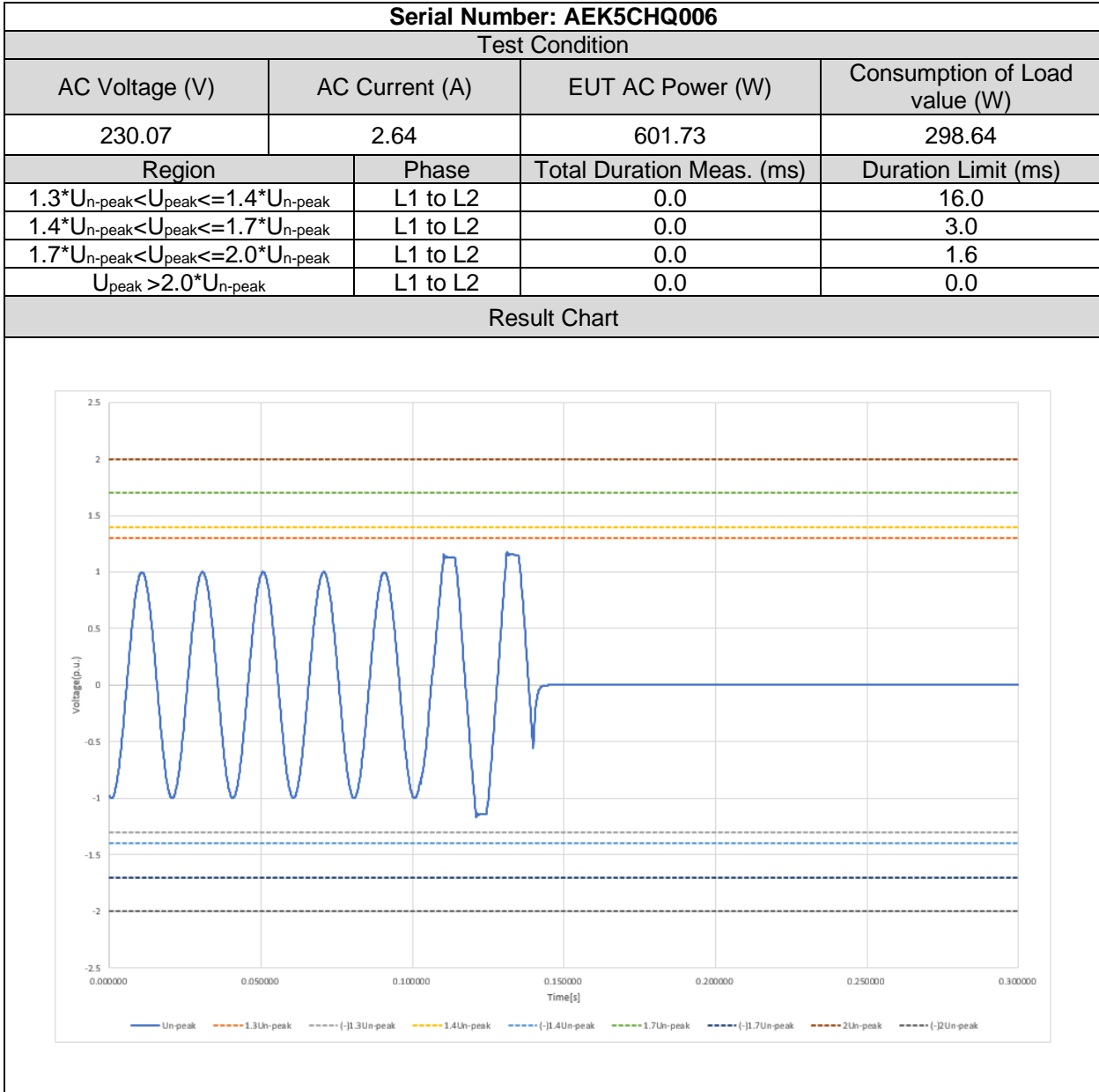
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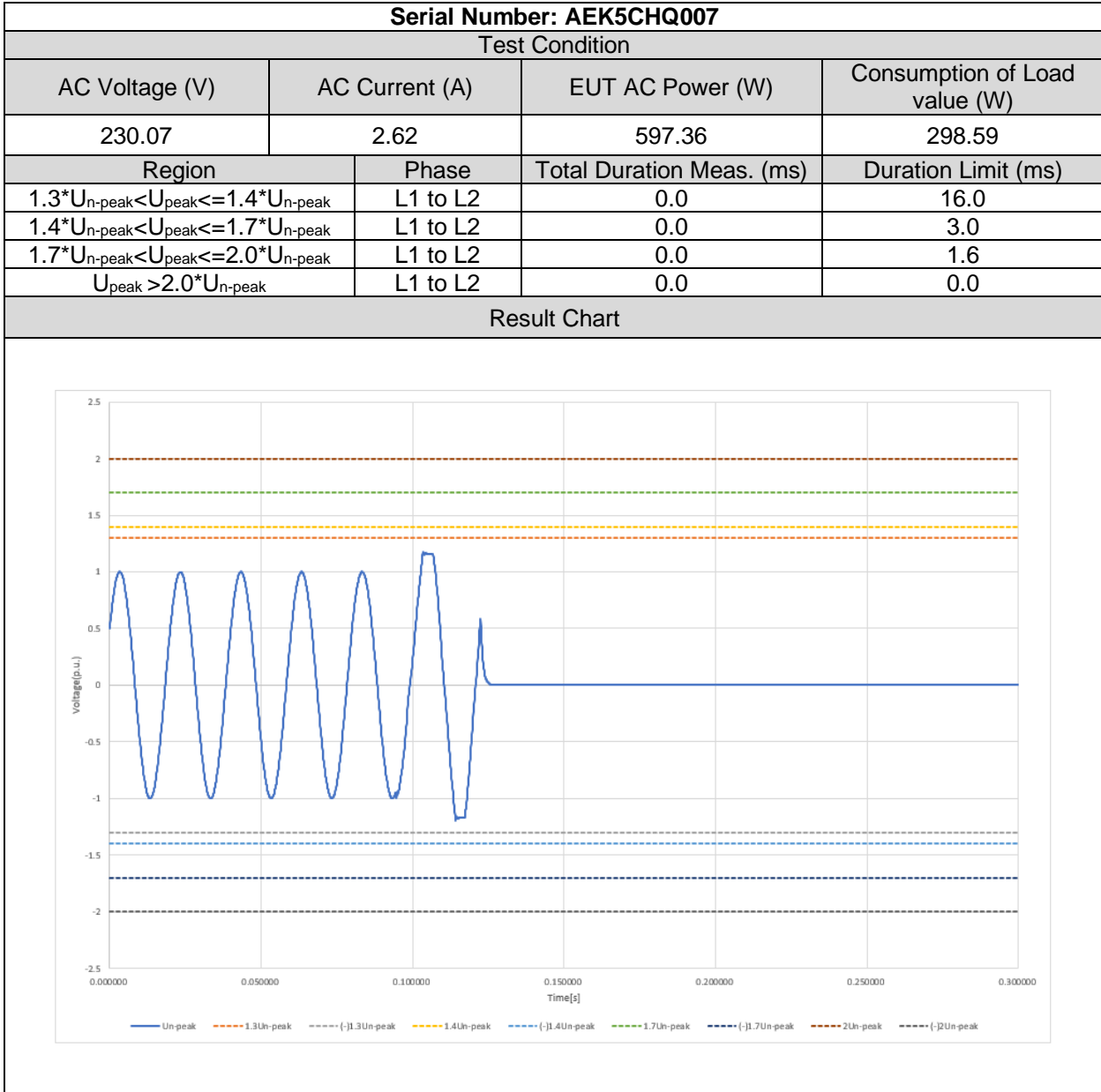
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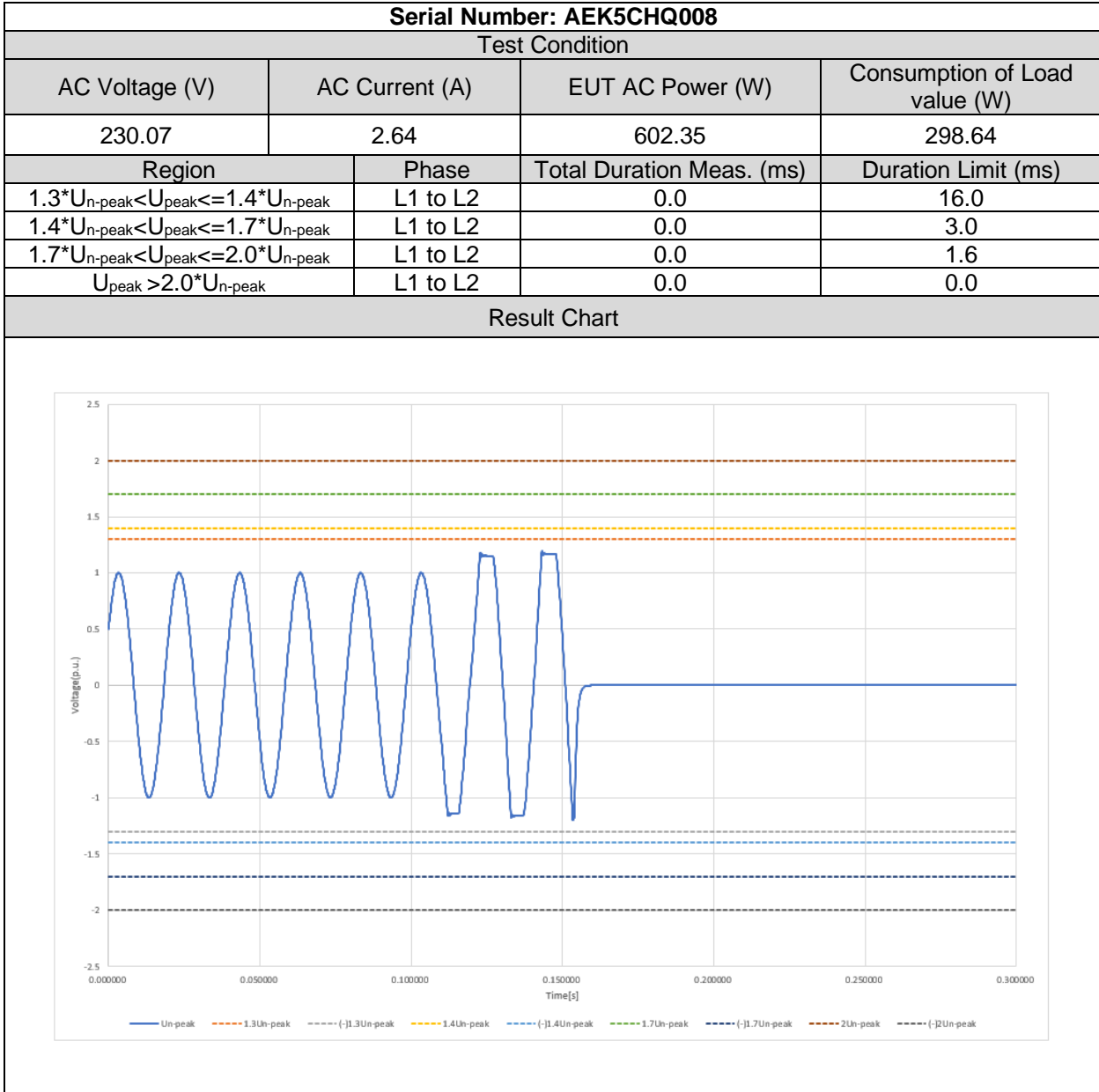
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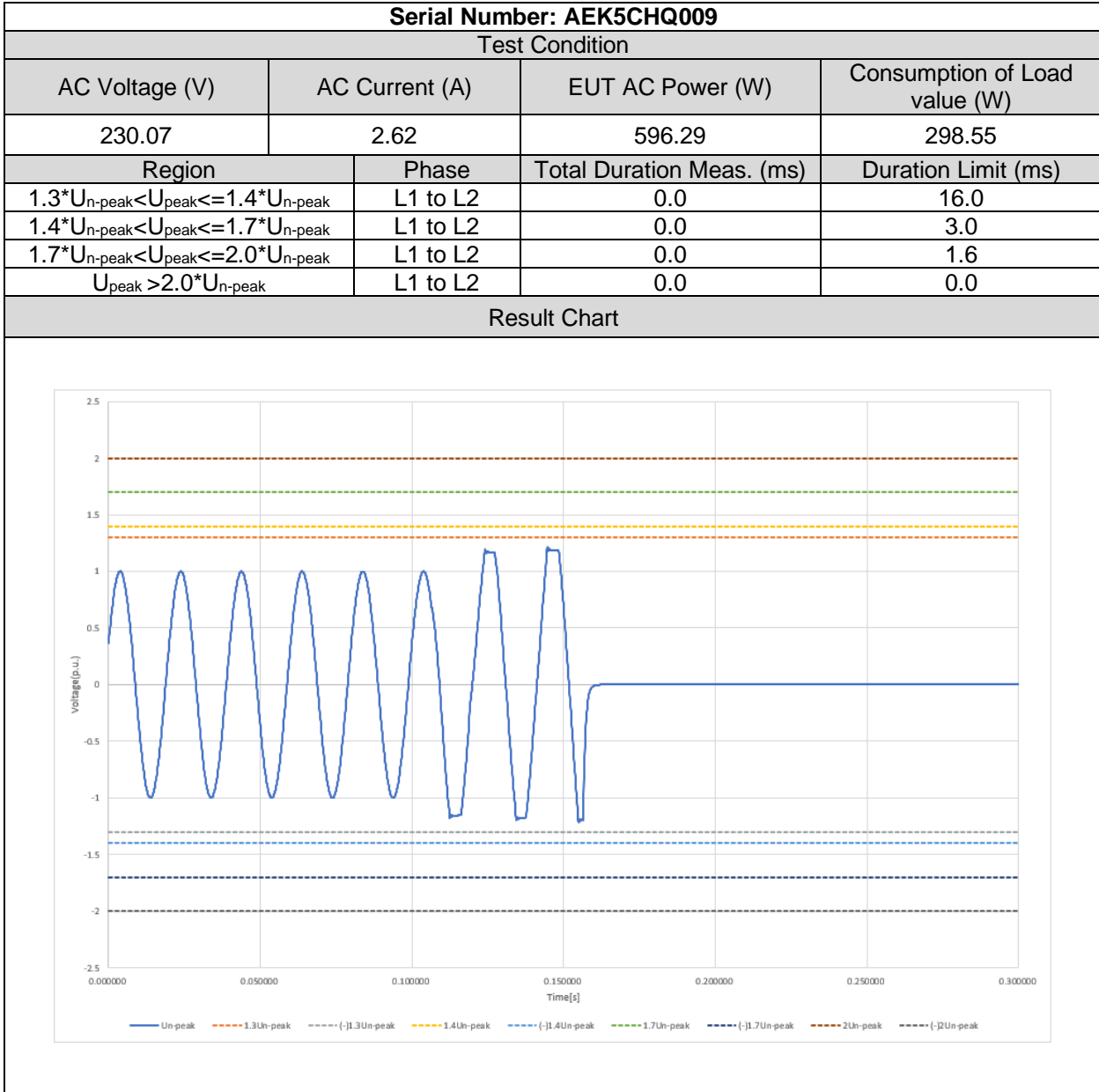
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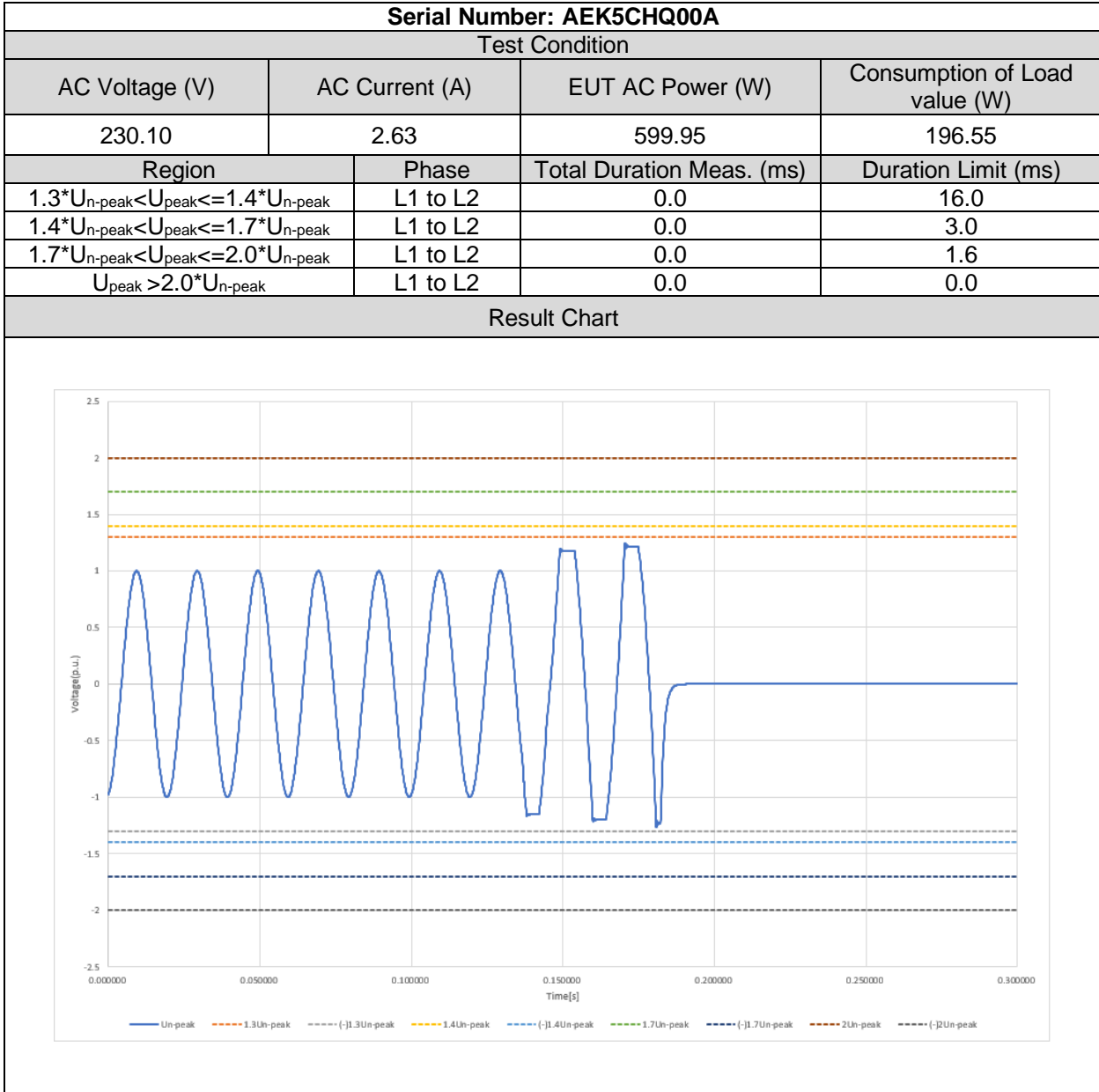
2) Test-2: EUT output level = 100%P_{rated} & Load level = 33%P_{rated}

Serial Number: AEK2CB7006			
Test Condition			
AC Voltage (V)	AC Current (A)	EUT AC Power (W)	Consumption of Load value (W)
230.10	2.65	602.99	196.55
Region	Phase	Total Duration Meas. (ms)	Duration Limit (ms)
$1.3 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 1.4 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	16.0
$1.4 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 1.7 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	3.0
$1.7 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 2.0 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	1.6
$U_{\text{peak}} > 2.0 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	0.0
Result Chart			



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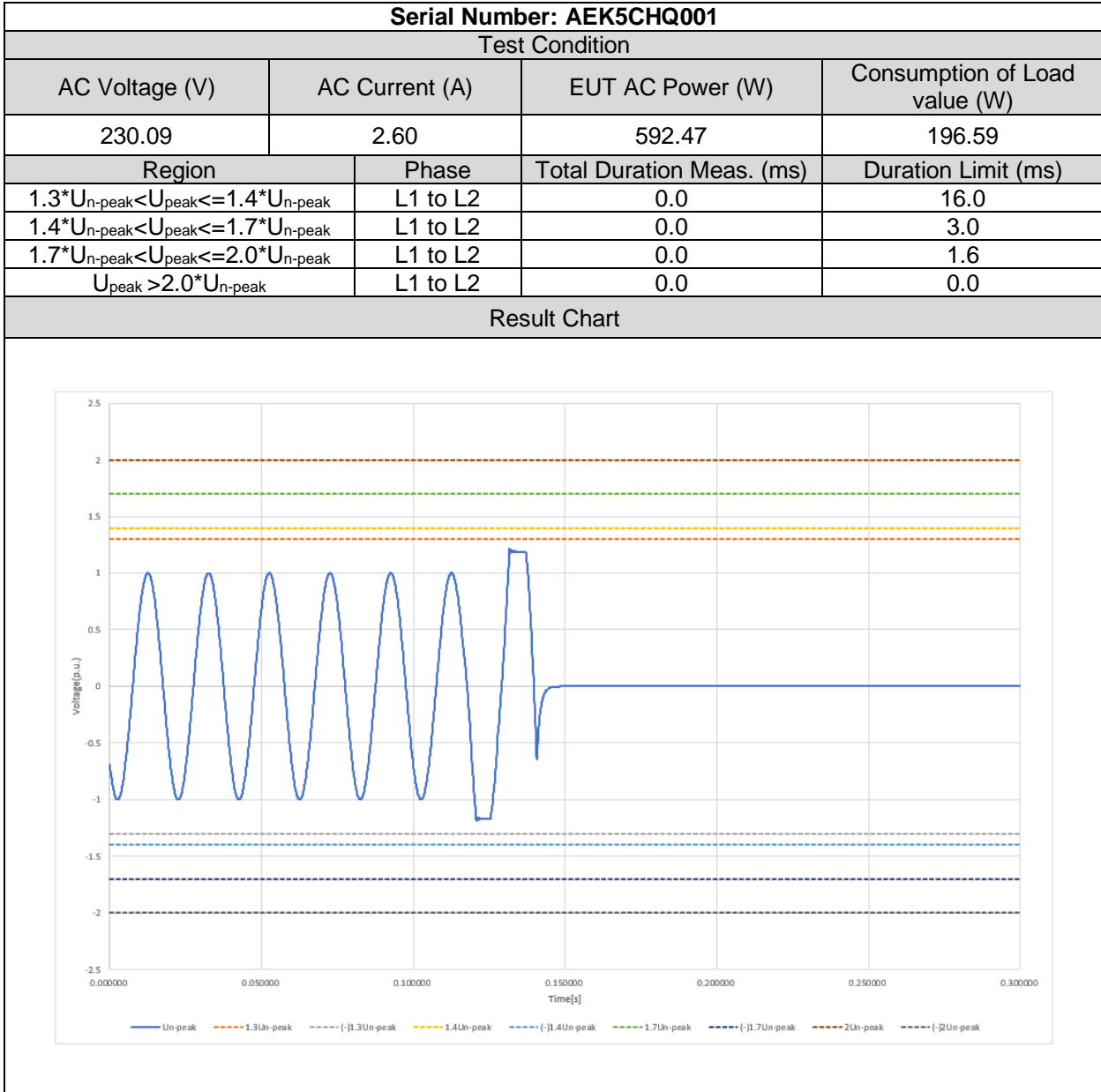
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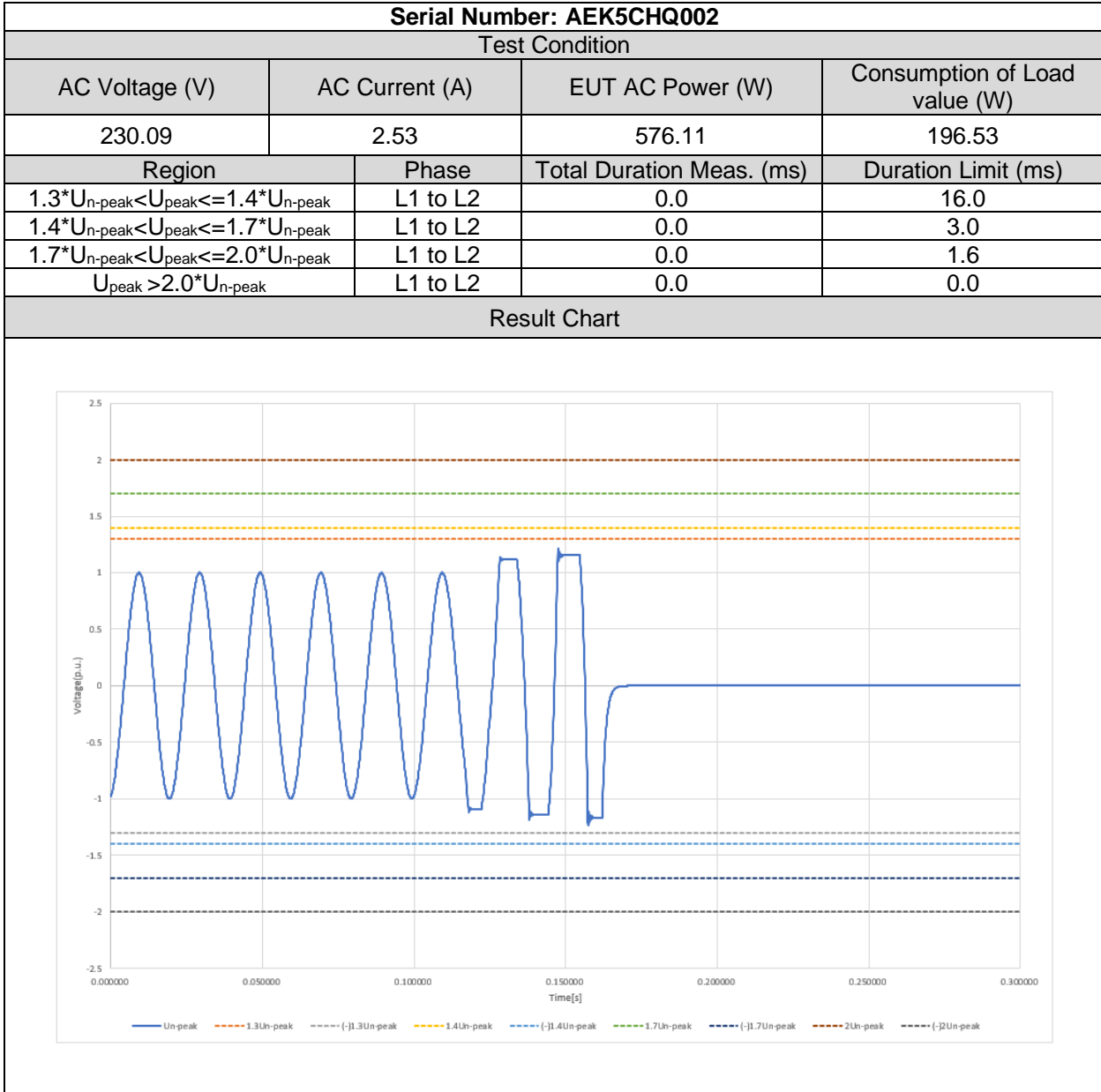
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Serial Number: AEK5CHQ004			
Test Condition			
AC Voltage (V)	AC Current (A)	EUT AC Power (W)	Consumption of Load value (W)
230.08	2.61	594.47	196.49
Region	Phase	Total Duration Meas. (ms)	Duration Limit (ms)
$1.3 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 1.4 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	16.0
$1.4 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 1.7 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	3.0
$1.7 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 2.0 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	1.6
$U_{\text{peak}} > 2.0 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	0.0

Result Chart	
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Serial Number: AEK5CHQ005			
Test Condition			
AC Voltage (V)	AC Current (A)	EUT AC Power (W)	Consumption of Load value (W)
230.09	2.61	595.27	196.53
Region	Phase	Total Duration Meas. (ms)	Duration Limit (ms)
$1.3 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 1.4 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	16.0
$1.4 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 1.7 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	3.0
$1.7 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 2.0 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	1.6
$U_{\text{peak}} > 2.0 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	0.0

Result Chart	
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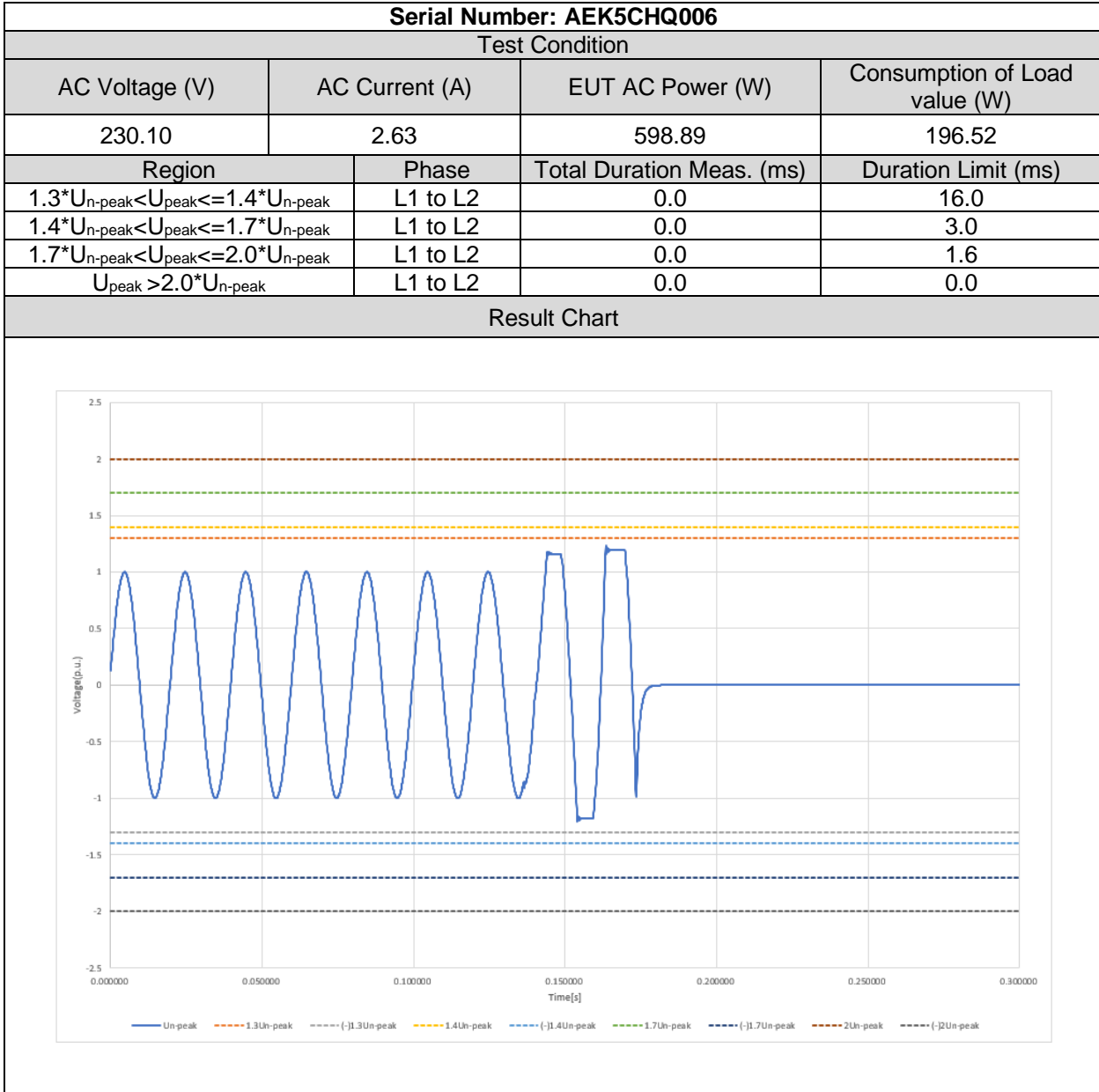
The graph displays a voltage waveform over a 0.3-second interval. The y-axis represents voltage in per-unit (p.u.) from -2.5 to 2.5. The x-axis represents time in seconds from 0.000000 to 0.300000. The waveform shows a series of regular oscillations between approximately -1.0 and 1.0 p.u. until about 0.11 seconds, where it exhibits a sharp spike reaching approximately 1.2 p.u. followed by a sharp drop to about -1.2 p.u. and then stabilizes at 0 p.u. Several horizontal dashed lines represent different peak voltage limits: 1.3Un-peak (orange), 1.4Un-peak (yellow), 1.7Un-peak (green), and 2.0Un-peak (red). The legend at the bottom identifies the lines for Un-peak (blue), 1.3Un-peak (orange), -1.3Un-peak (grey), 1.4Un-peak (yellow), -1.4Un-peak (blue), 1.7Un-peak (green), -1.7Un-peak (grey), 2.0Un-peak (red), and -2.0Un-peak (grey).



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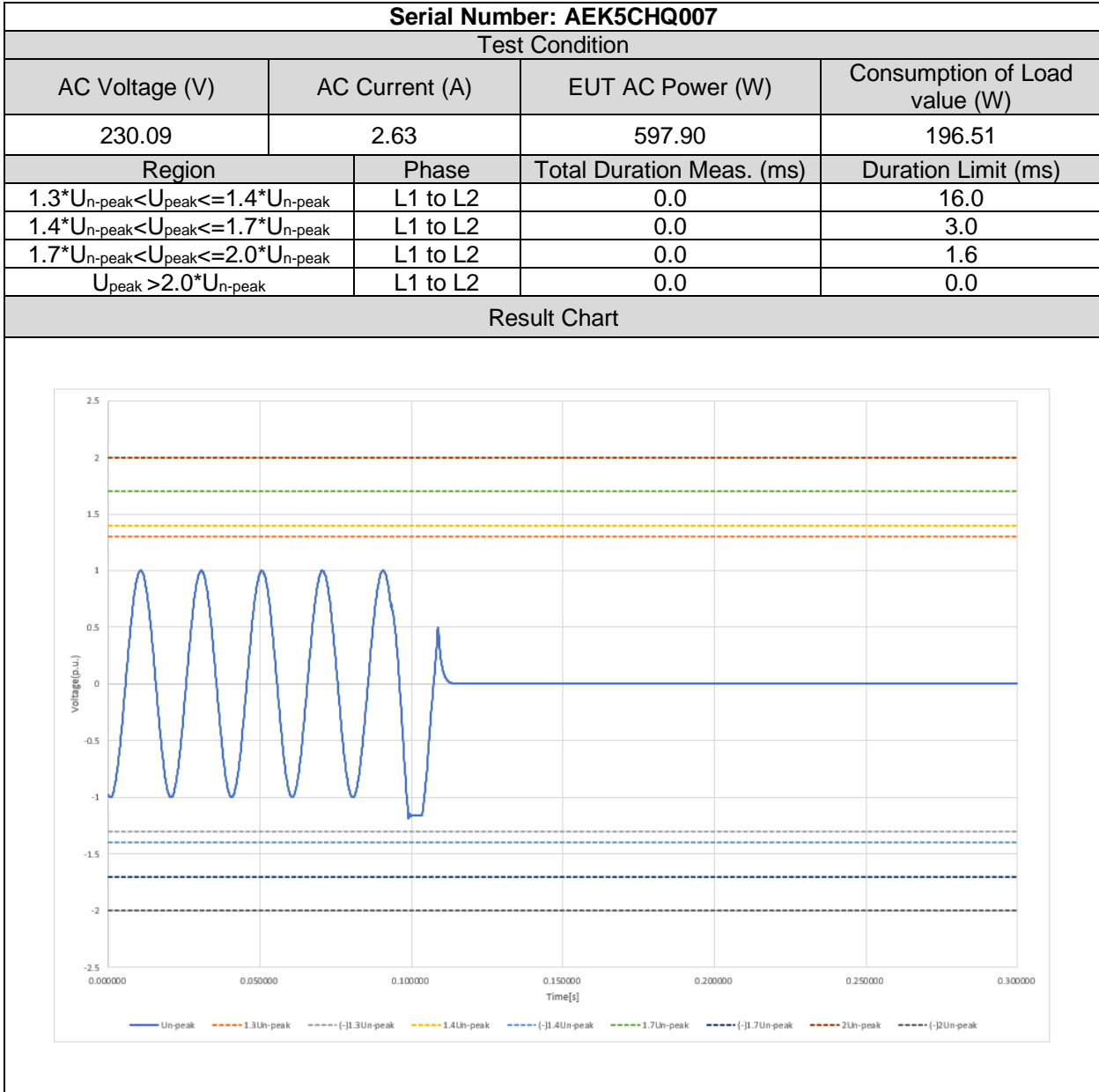
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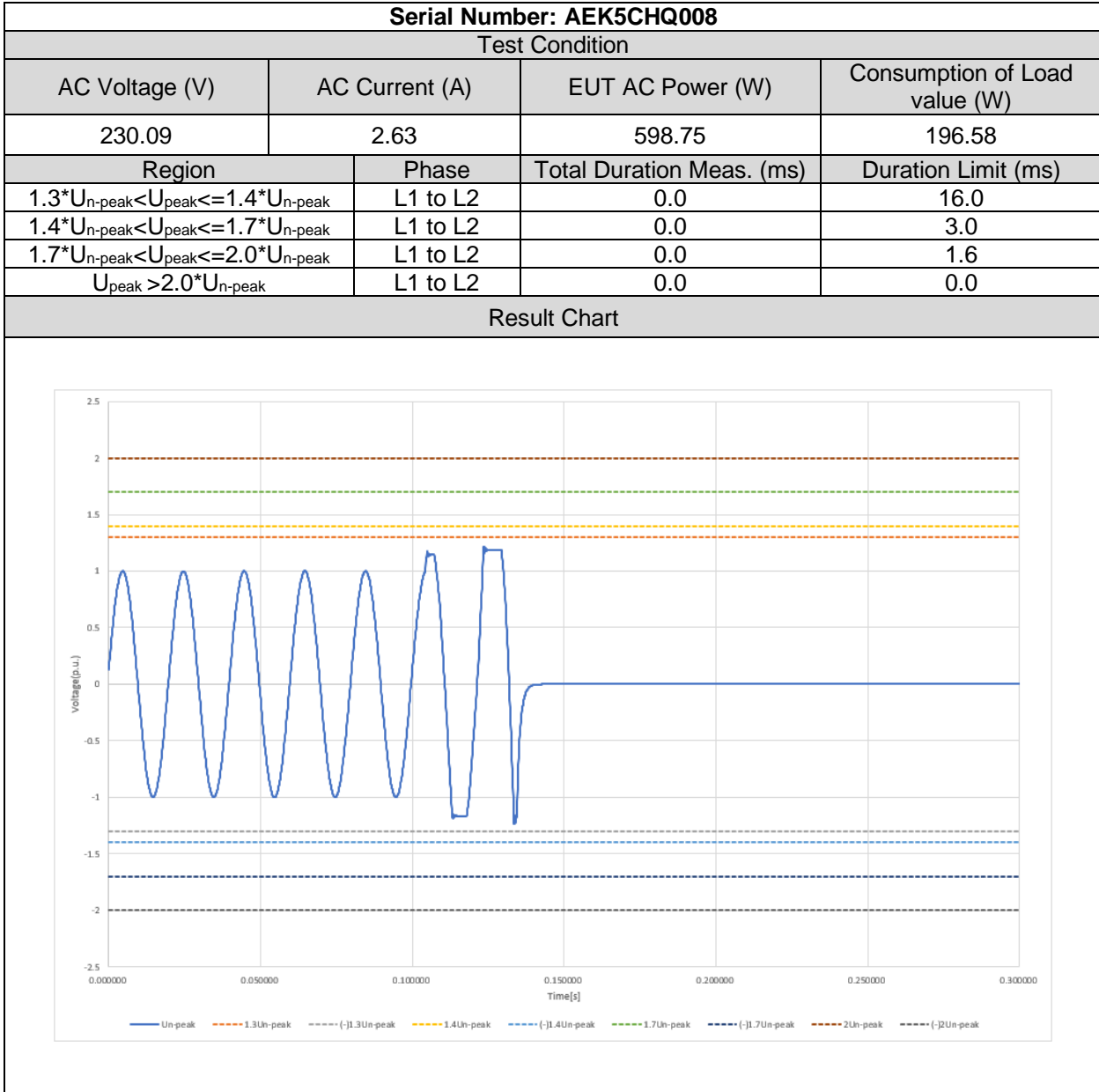
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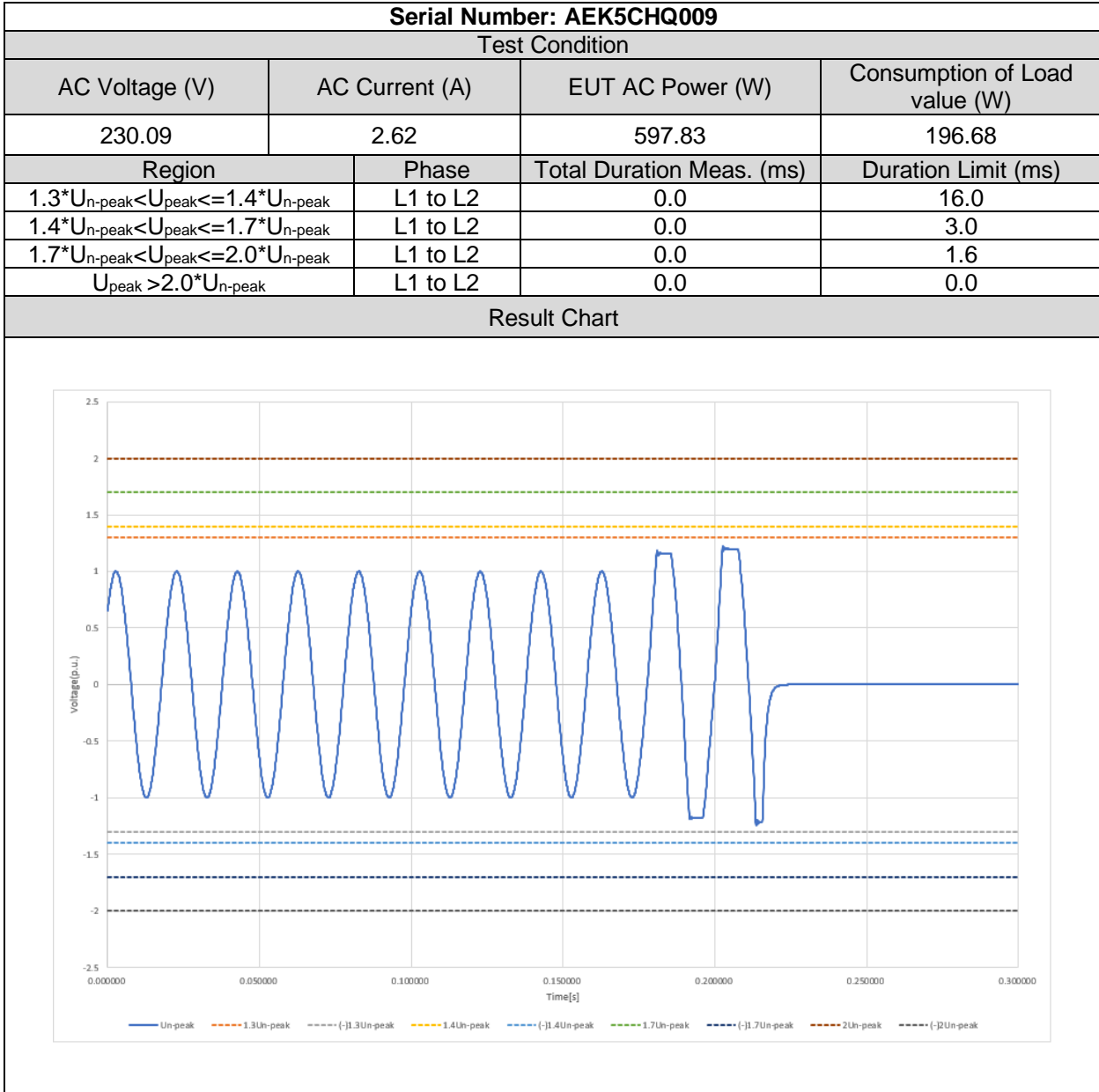
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3) Test-3: EUT output level = 100%P_{rated} & Load level = 10%P_{rated}

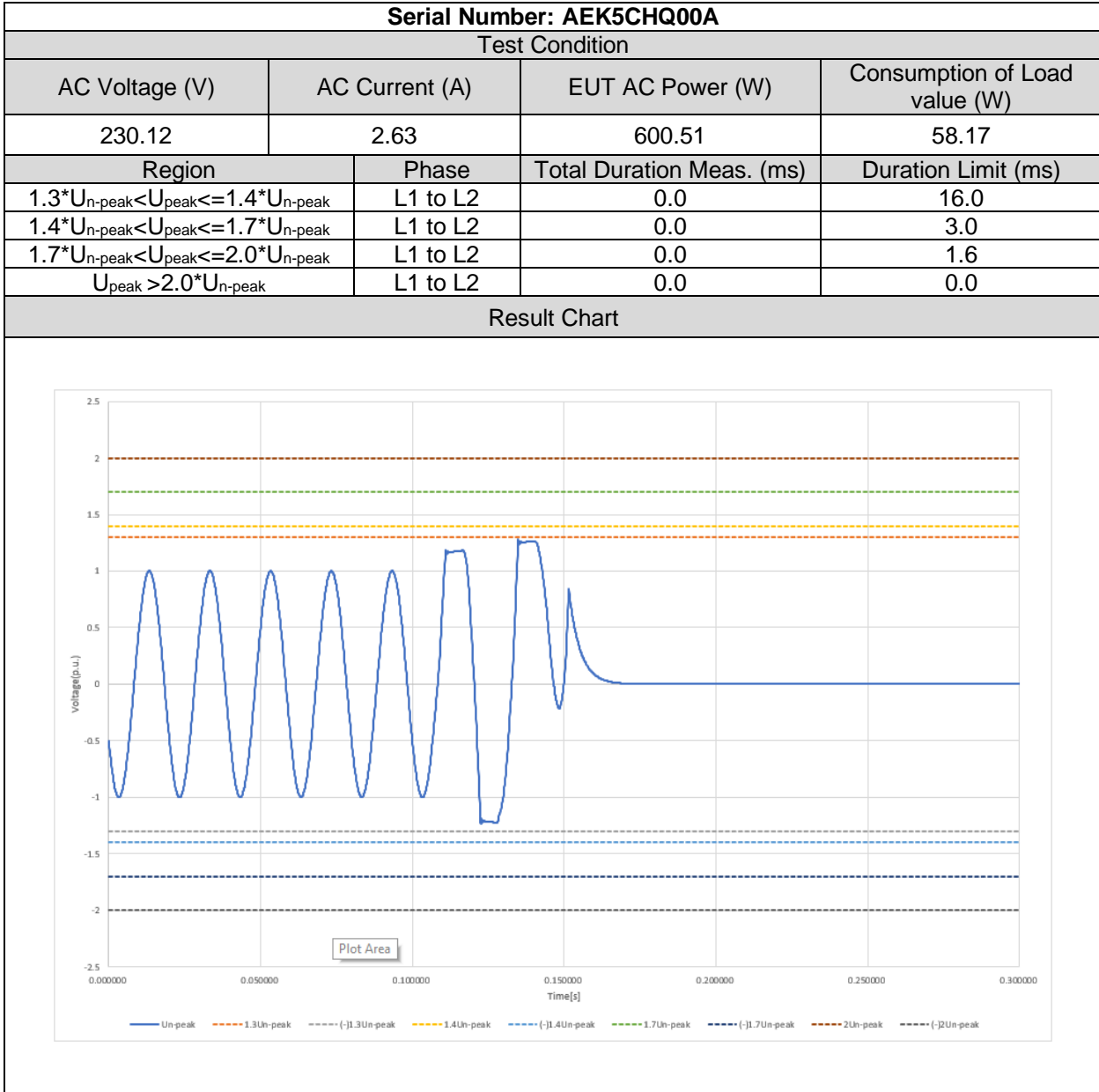
Serial Number: AEK2CB7006			
Test Condition			
AC Voltage (V)	AC Current (A)	EUT AC Power (W)	Consumption of Load value (W)
230.12	2.62	597.31	58.23
Region	Phase	Total Duration Meas. (ms)	Duration Limit (ms)
1.3*U _{n-peak} <U _{peak} <=1.4*U _{n-peak}	L1 to L2	0.0	16.0
1.4*U _{n-peak} <U _{peak} <=1.7*U _{n-peak}	L1 to L2	0.0	3.0
1.7*U _{n-peak} <U _{peak} <=2.0*U _{n-peak}	L1 to L2	0.0	1.6
U _{peak} >2.0*U _{n-peak}	L1 to L2	0.0	0.0
Result Chart			



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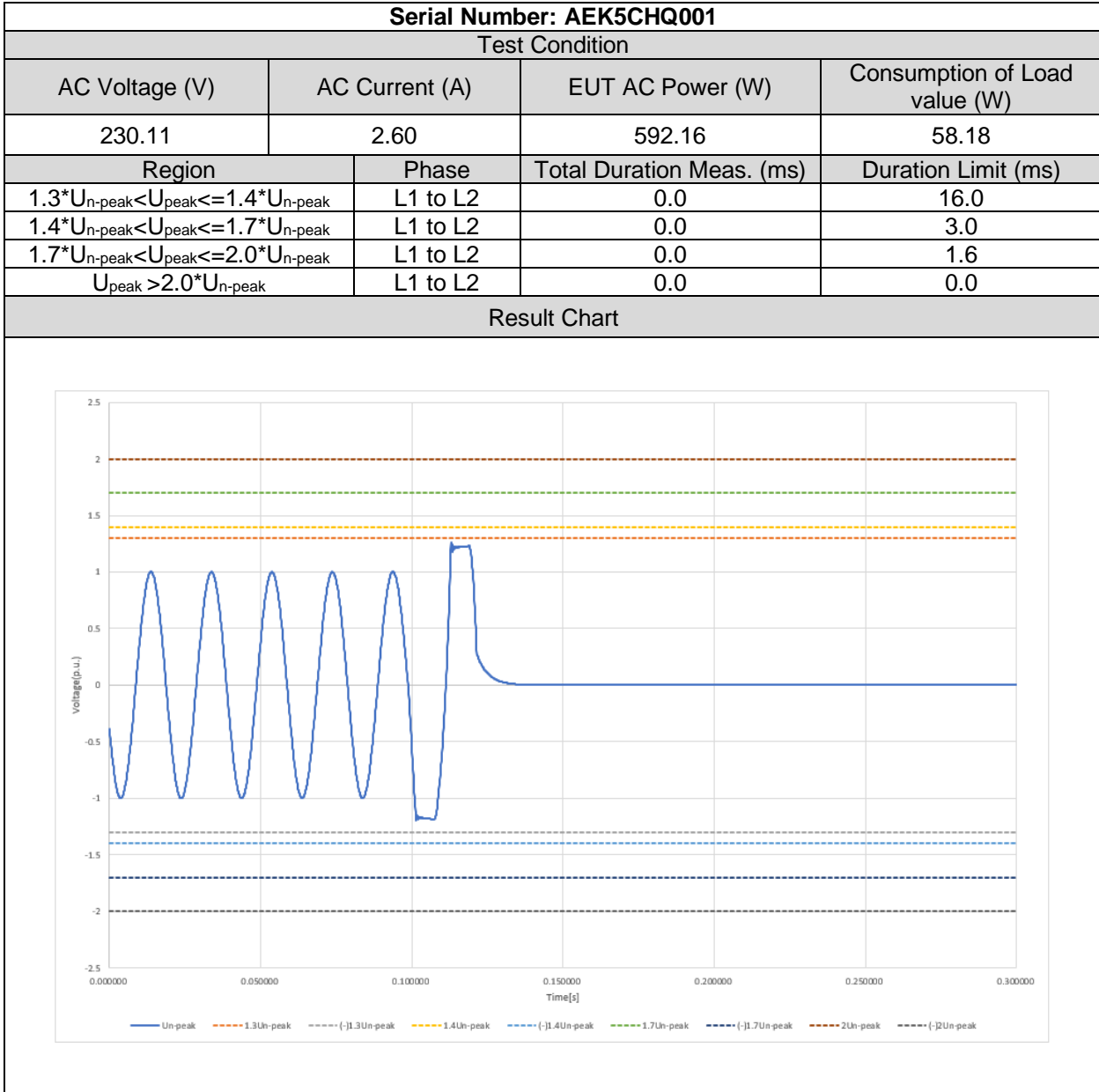
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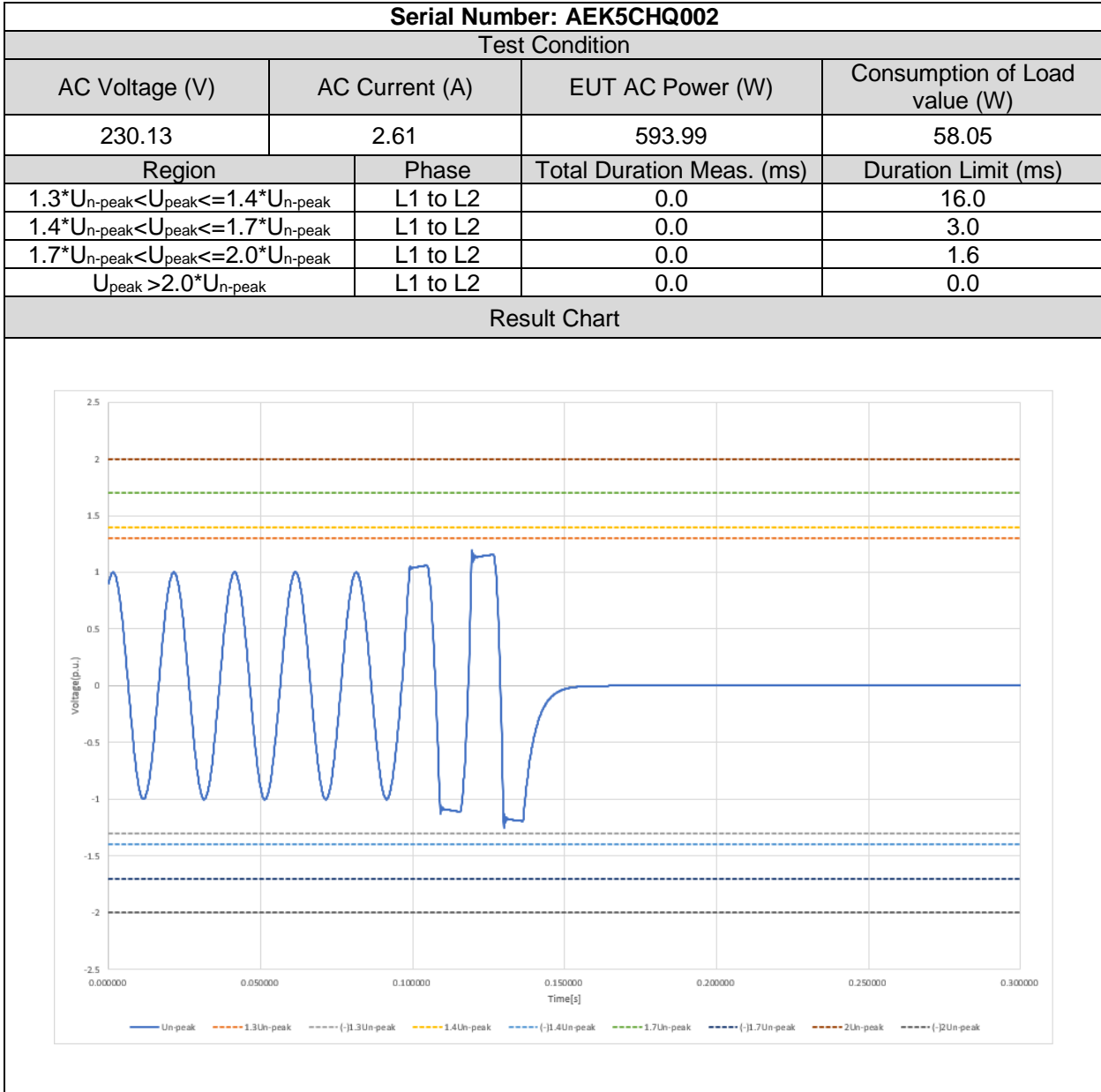
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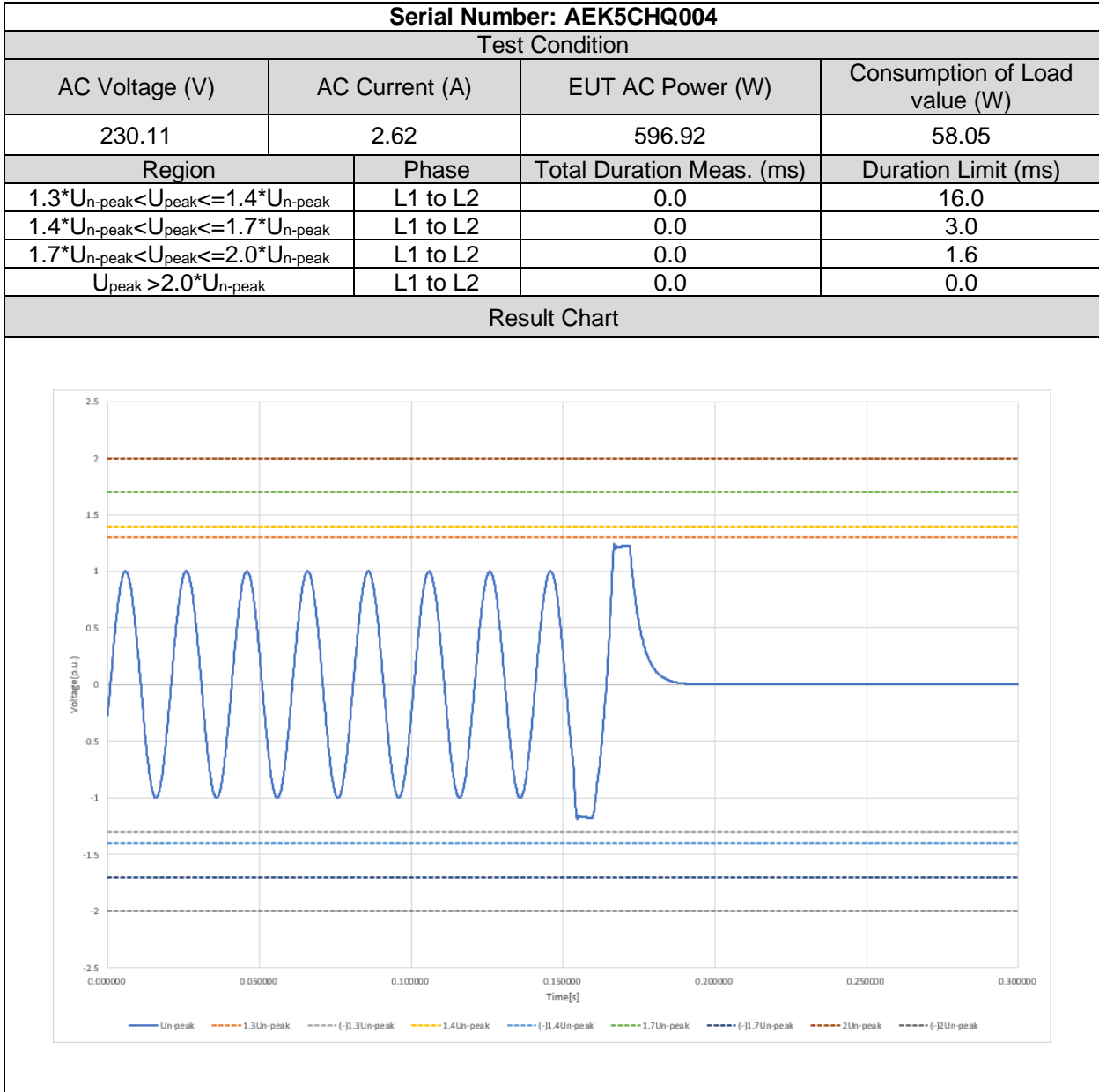
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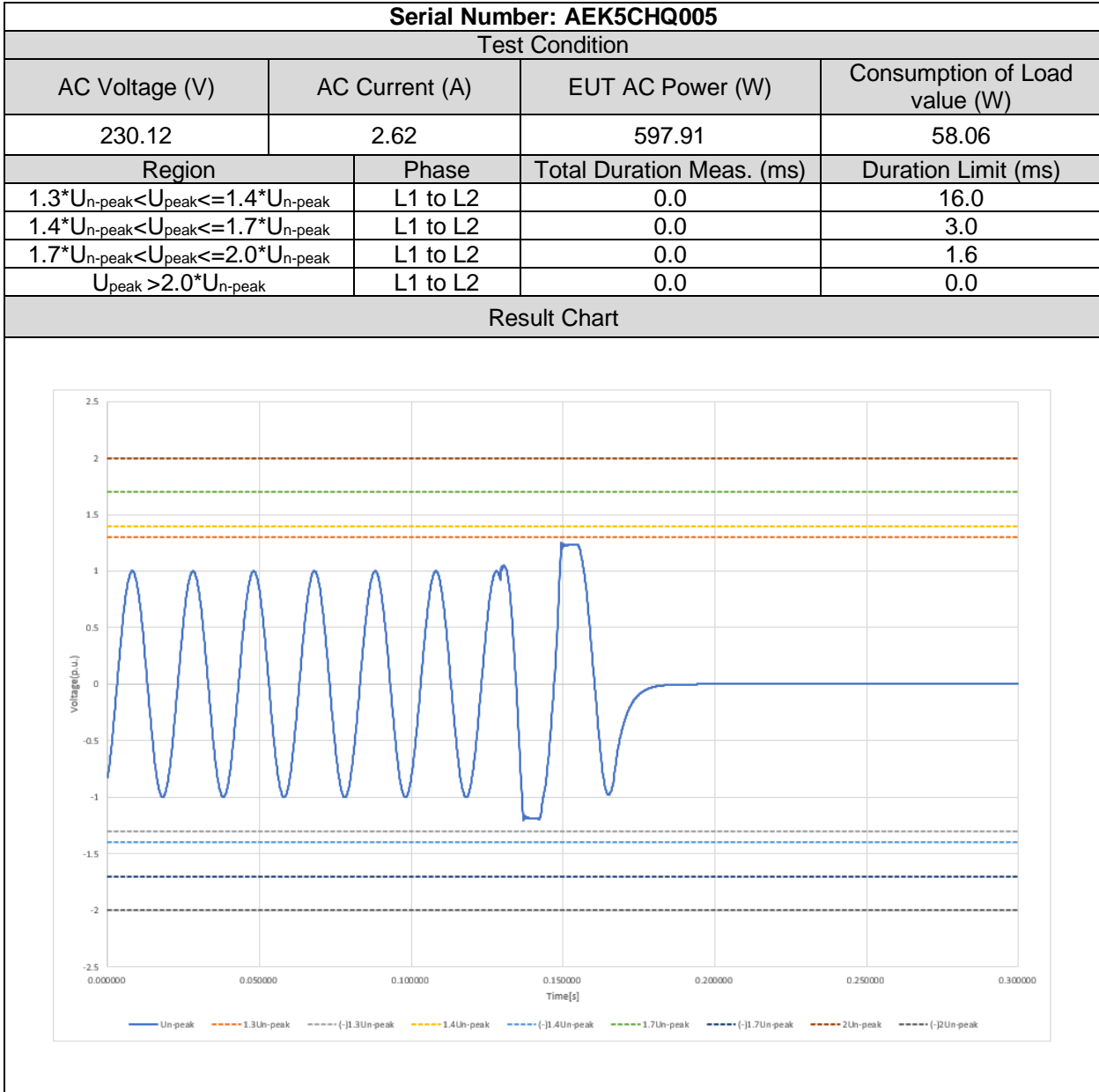
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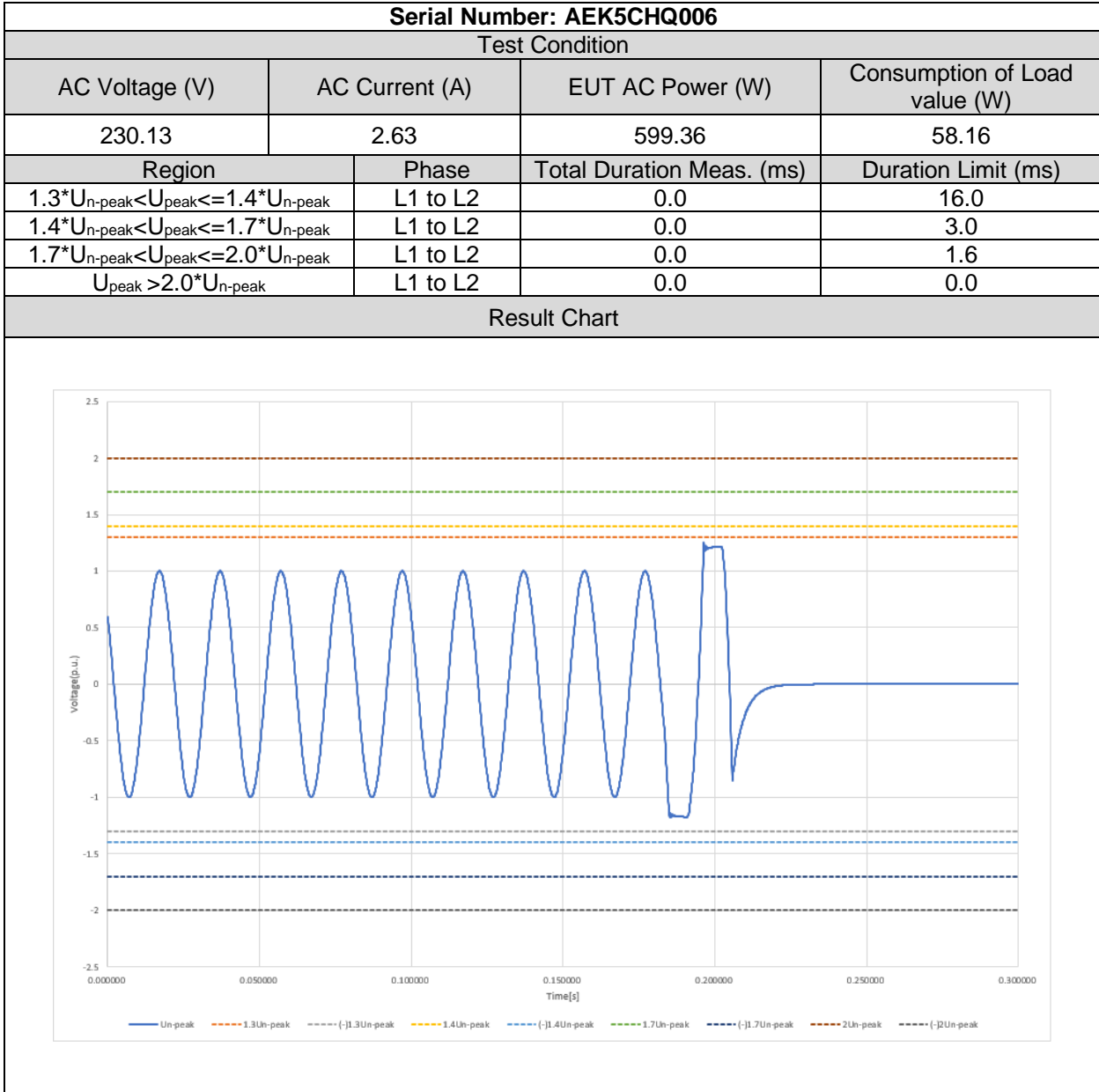
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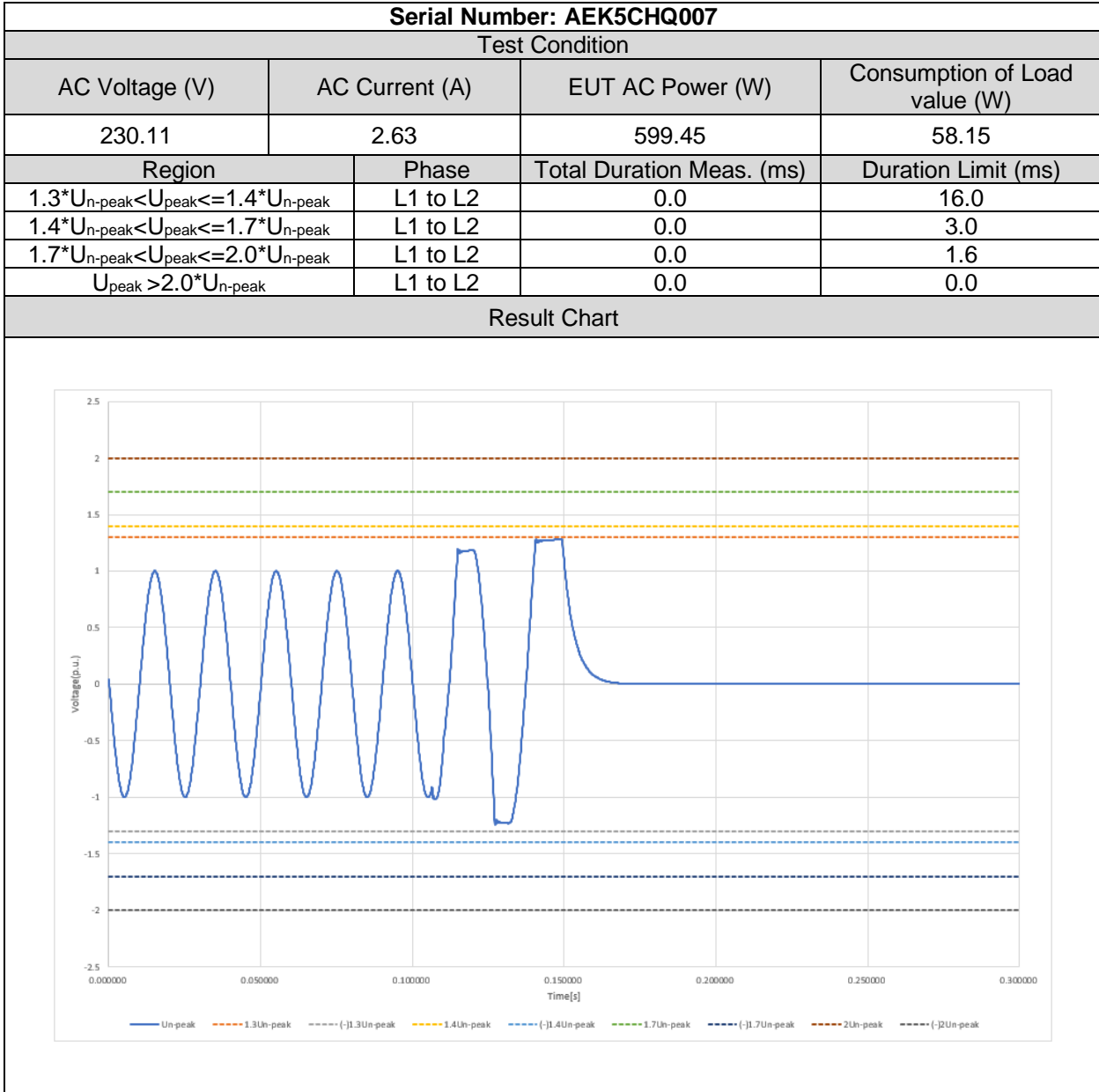
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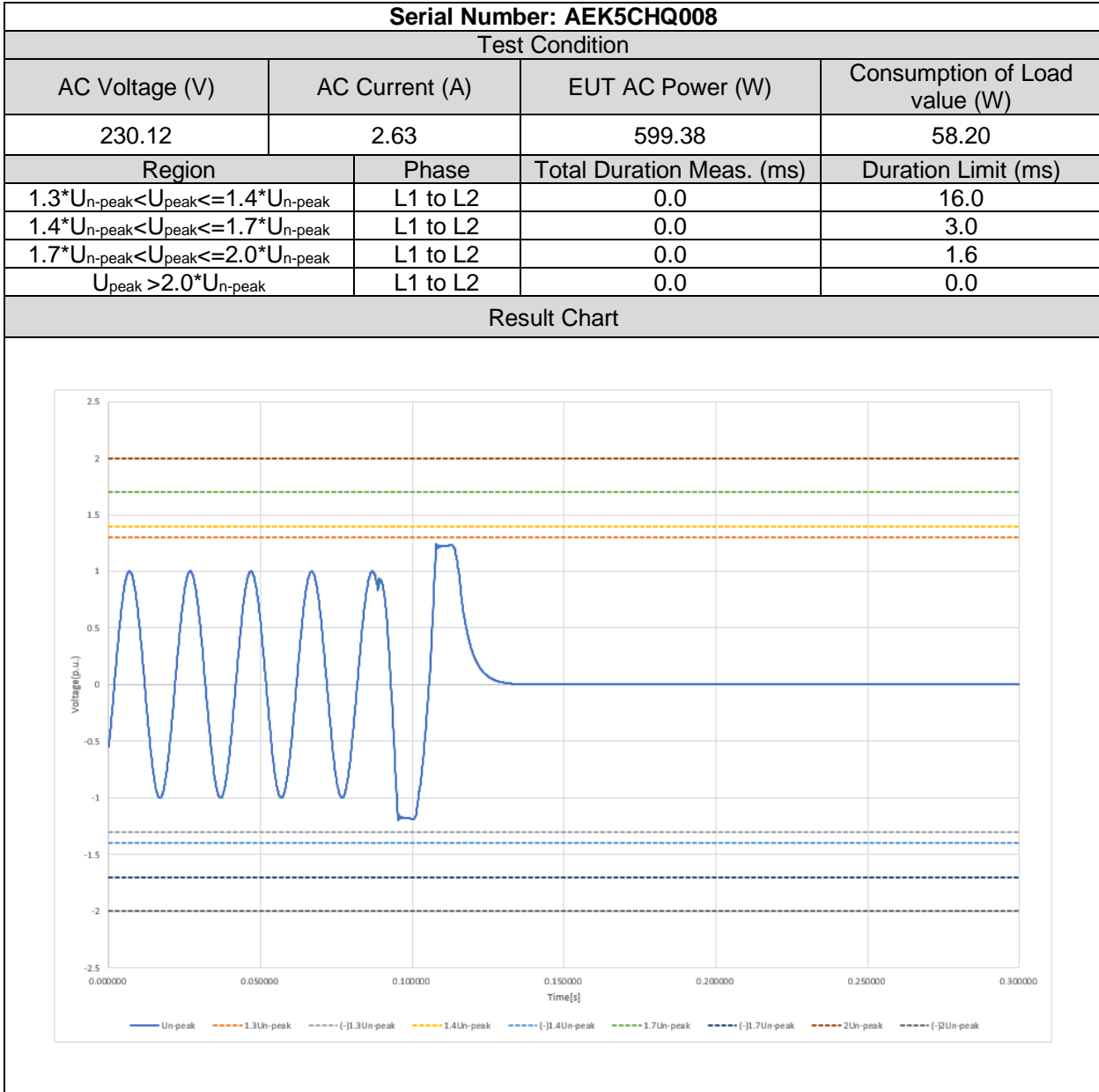
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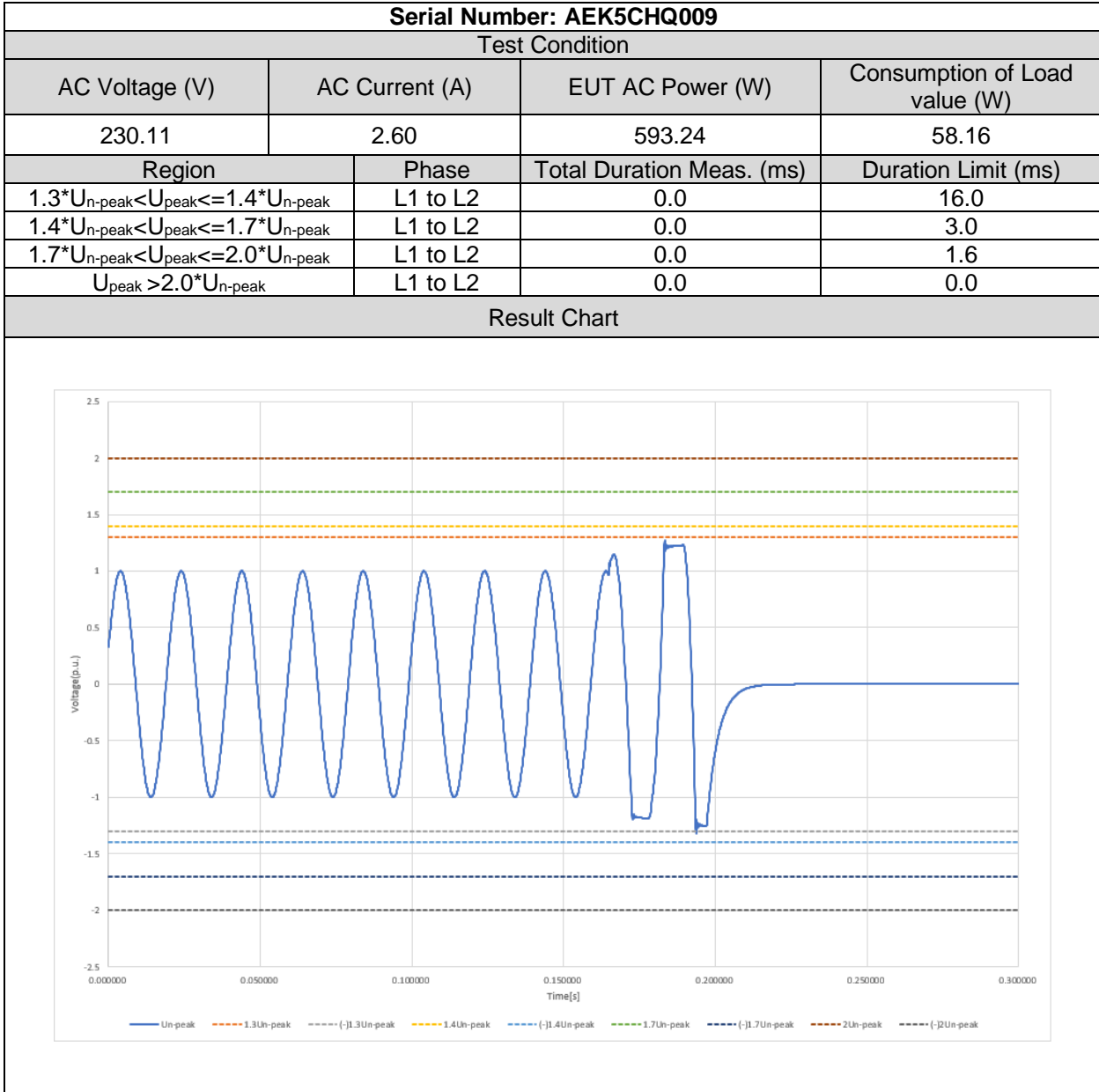
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4) Test-4: EUT output level = 100%P_{rated} & Load level = 0%P_{rated}

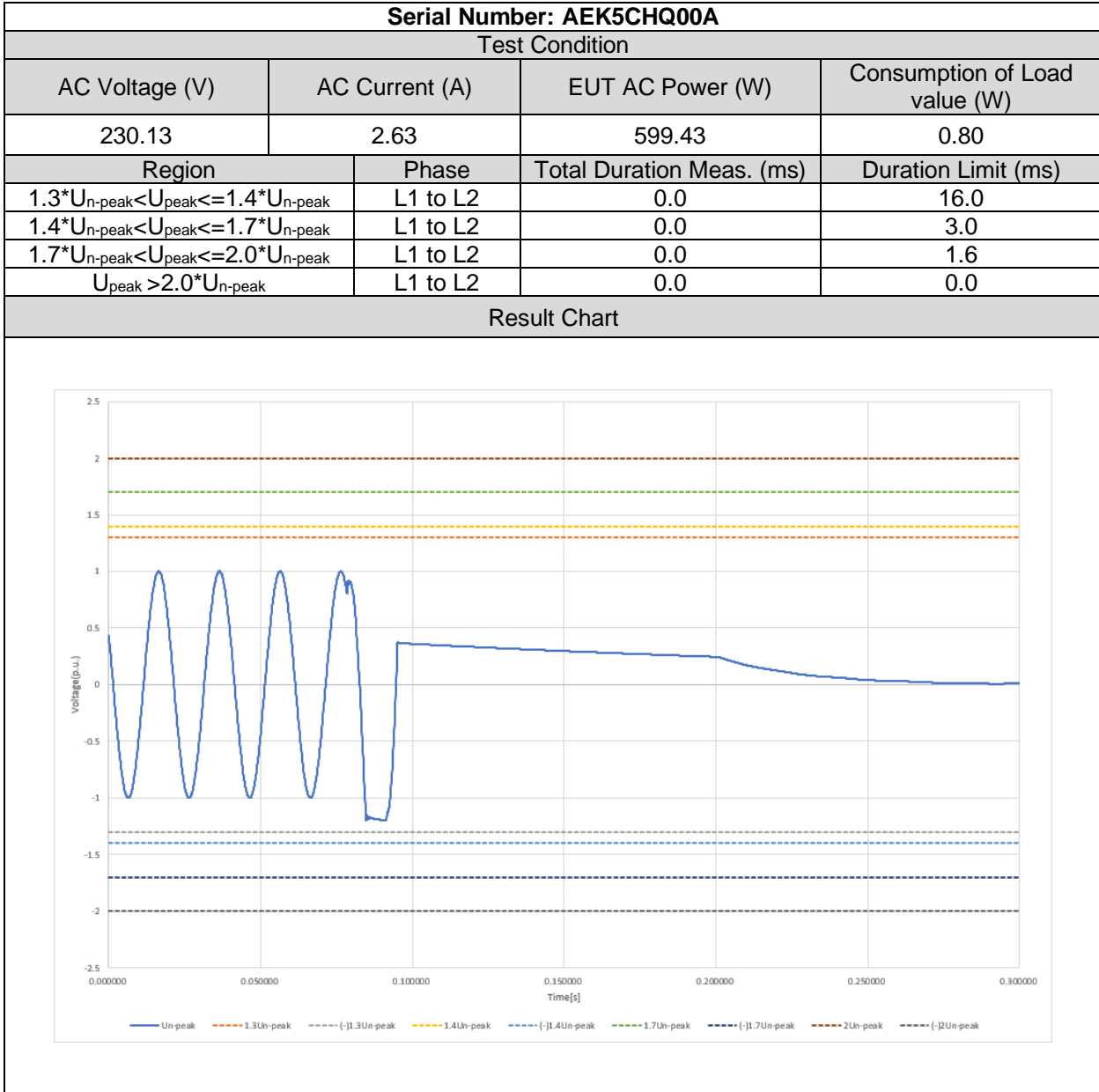
Serial Number: AEK2CB7006			
Test Condition			
AC Voltage (V)	AC Current (A)	EUT AC Power (W)	Consumption of Load value (W)
230.14	2.62	596.73	0.75
Region	Phase	Total Duration Meas. (ms)	Duration Limit (ms)
$1.3 \cdot U_{n-peak} < U_{peak} \leq 1.4 \cdot U_{n-peak}$	L1 to L2	0.0	16.0
$1.4 \cdot U_{n-peak} < U_{peak} \leq 1.7 \cdot U_{n-peak}$	L1 to L2	0.0	3.0
$1.7 \cdot U_{n-peak} < U_{peak} \leq 2.0 \cdot U_{n-peak}$	L1 to L2	0.0	1.6
$U_{peak} > 2.0 \cdot U_{n-peak}$	L1 to L2	0.0	0.0
Result Chart			



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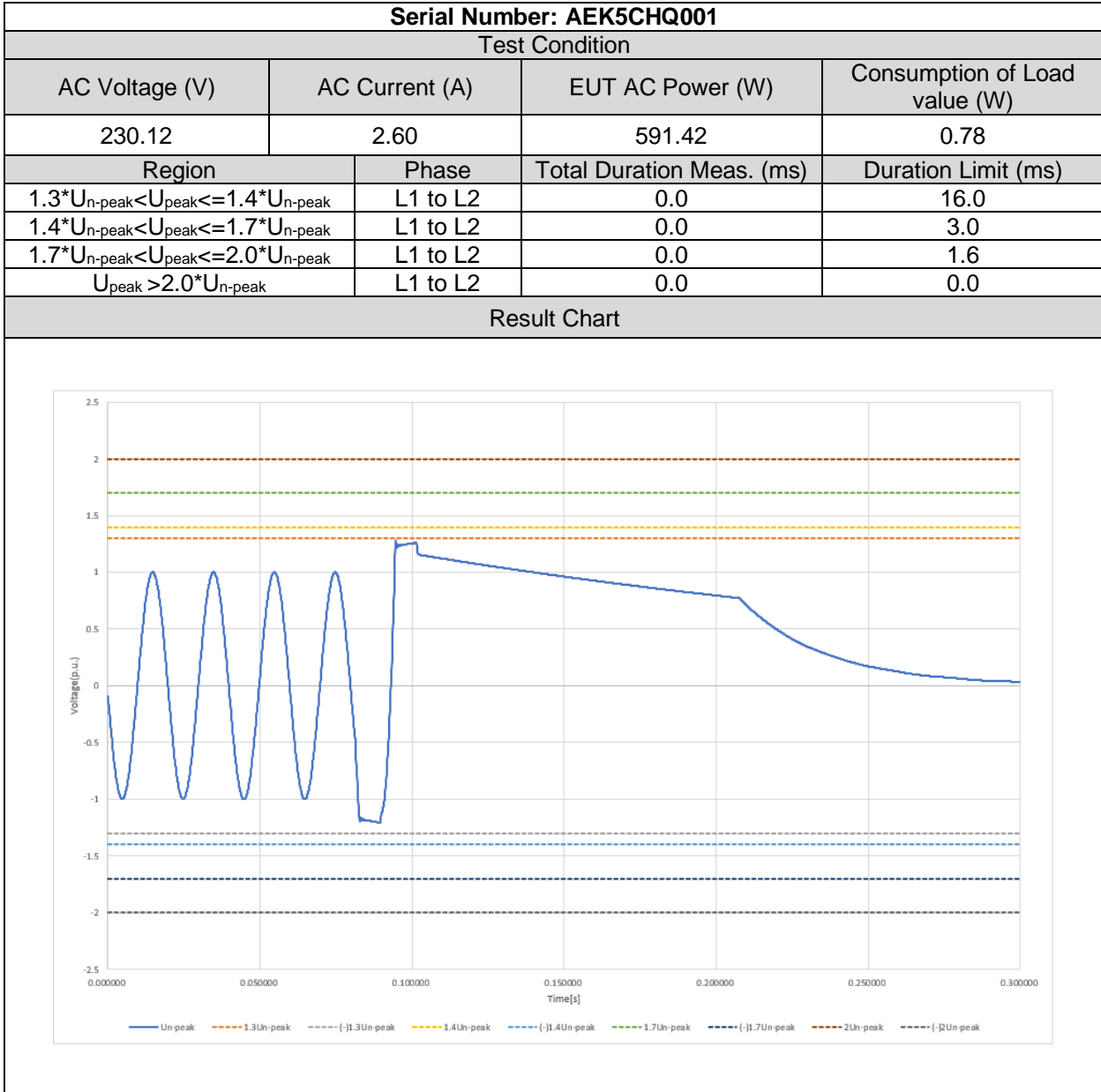
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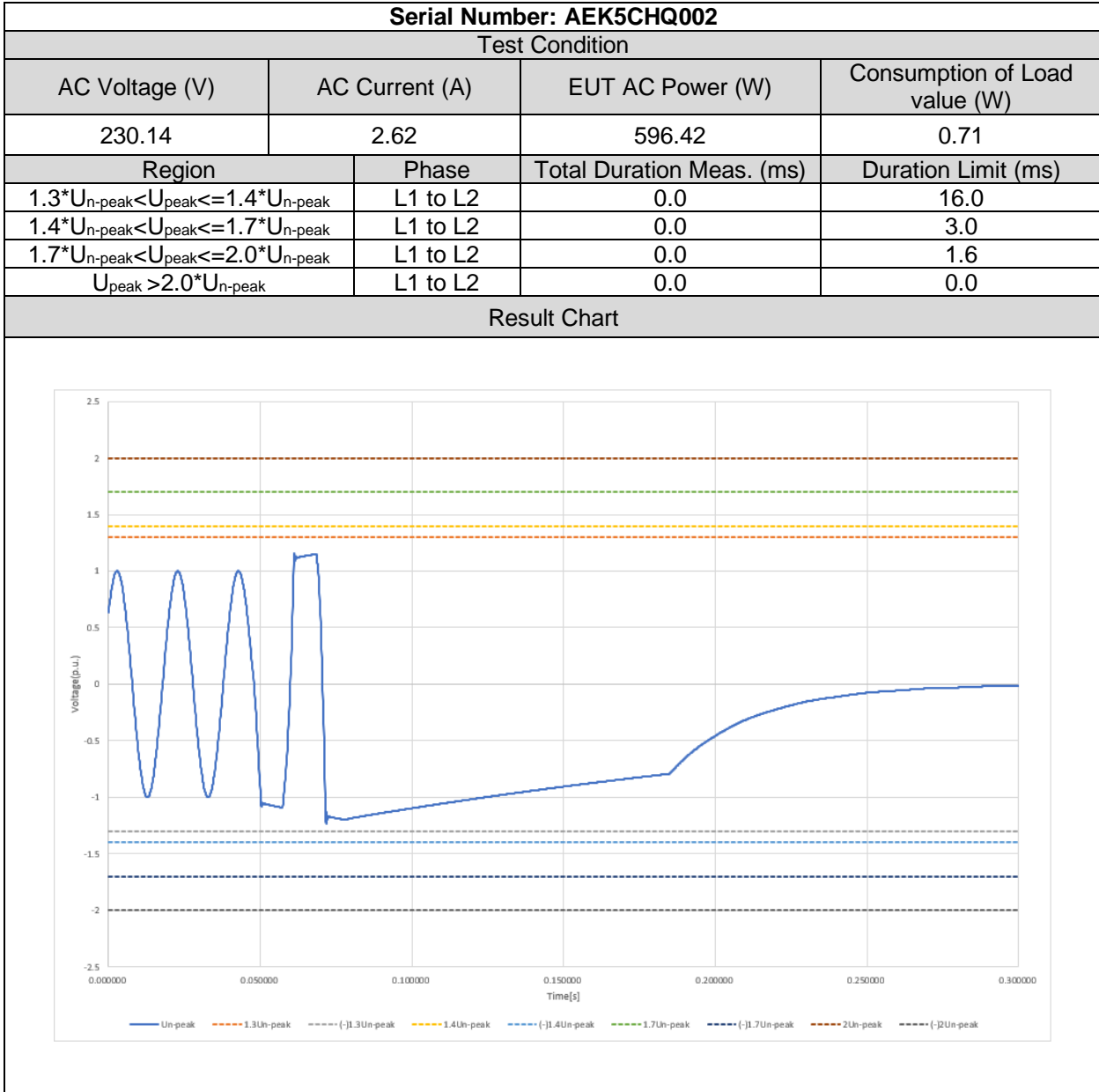
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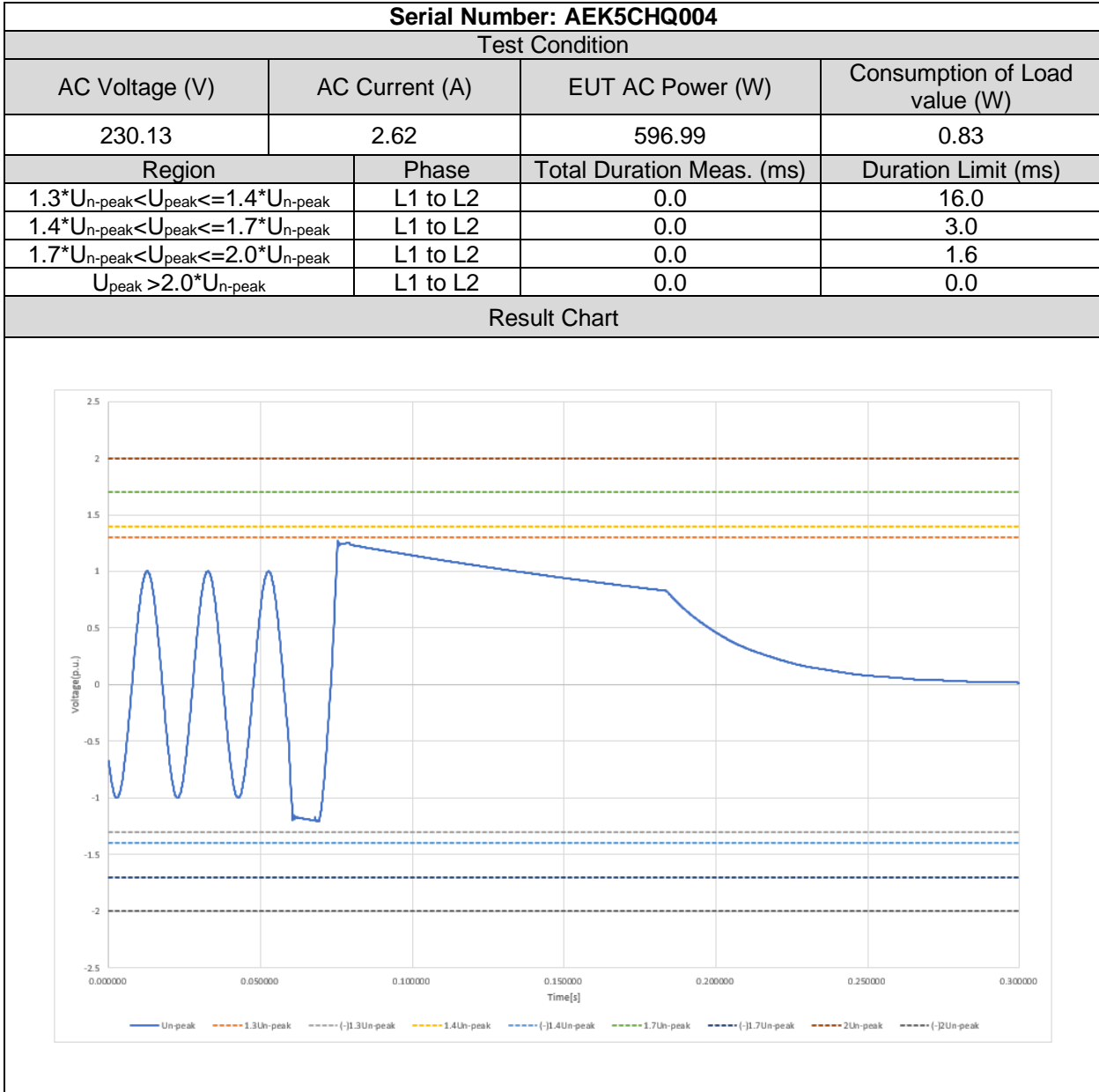
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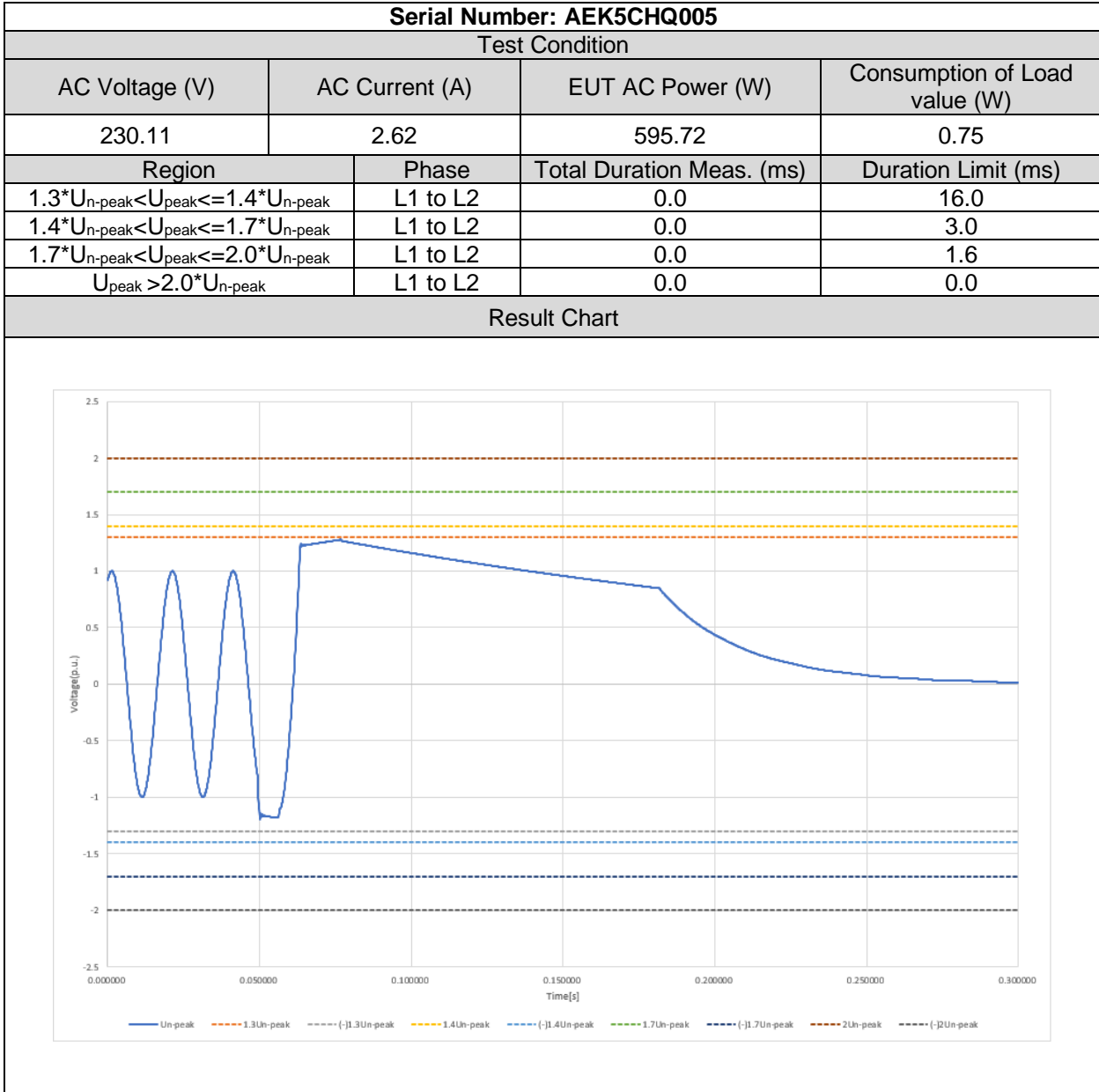
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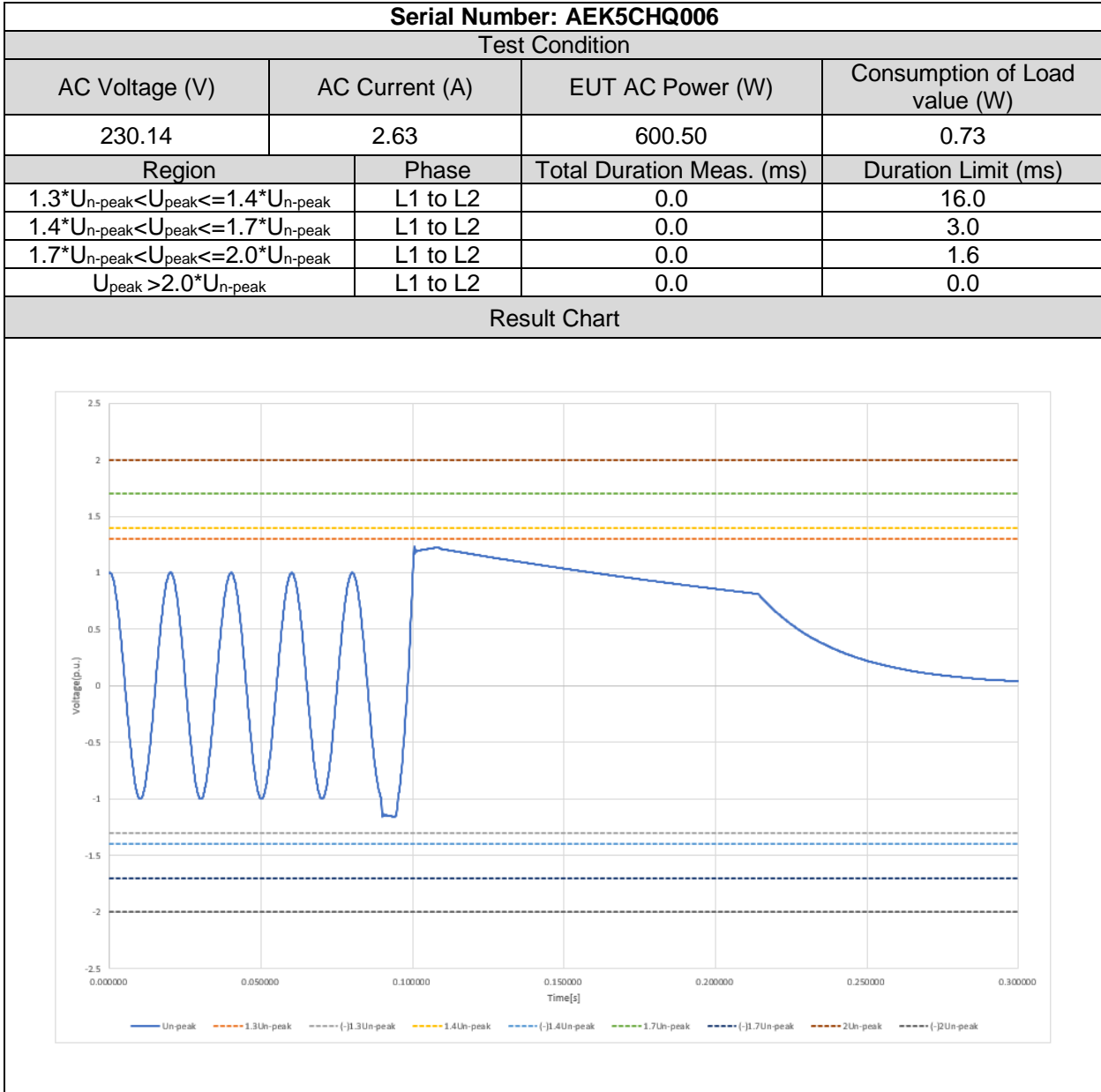
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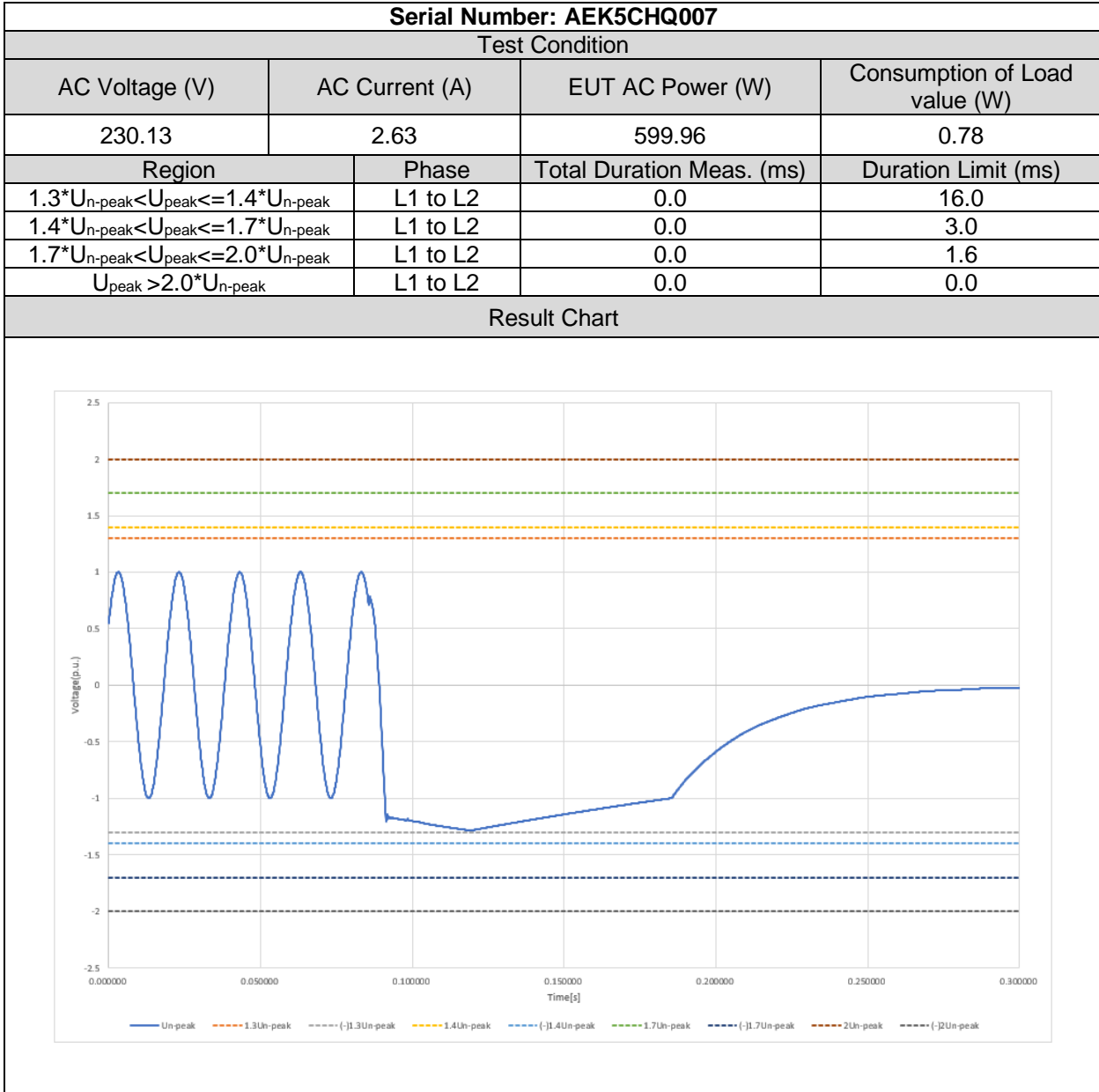
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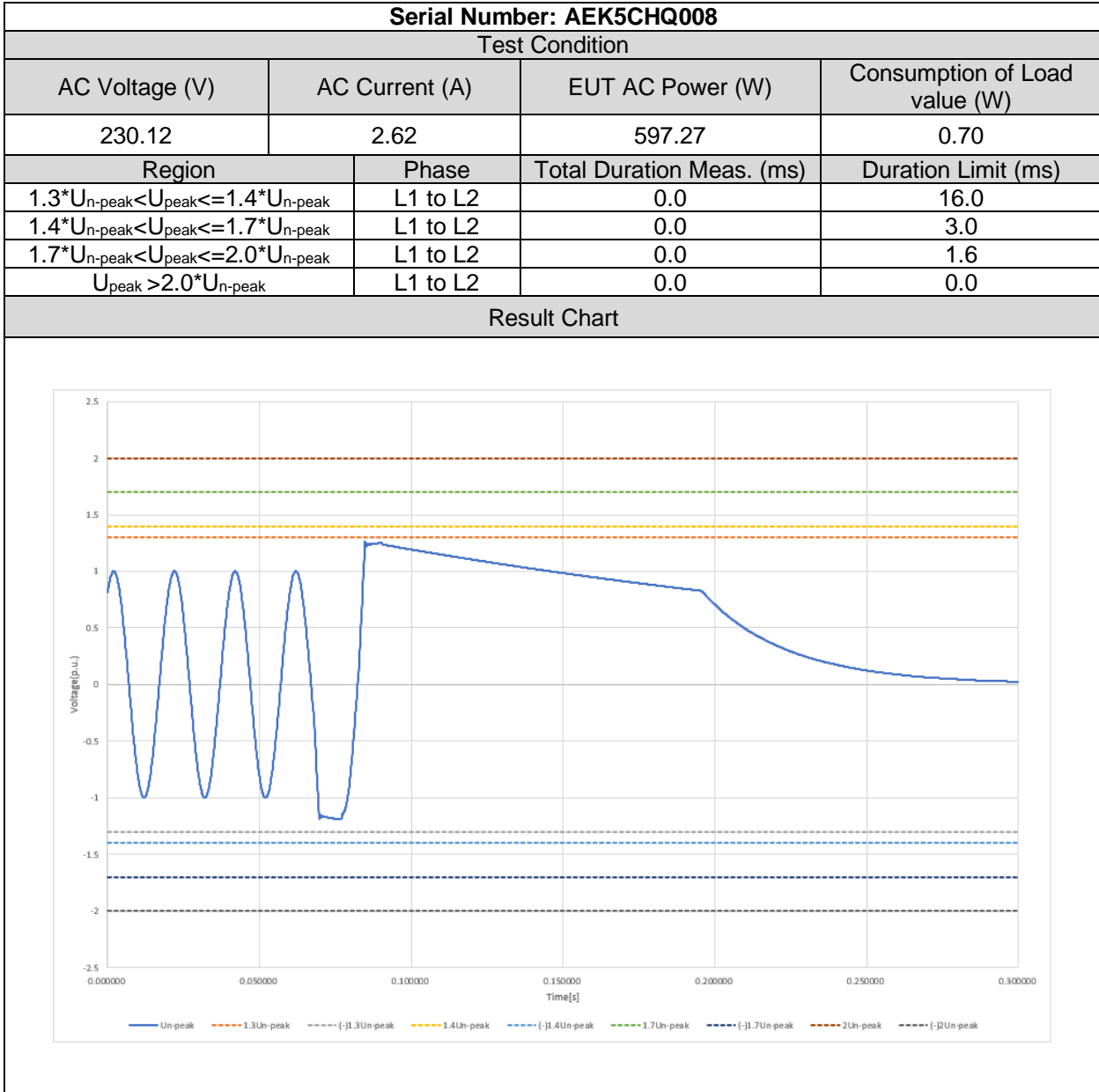
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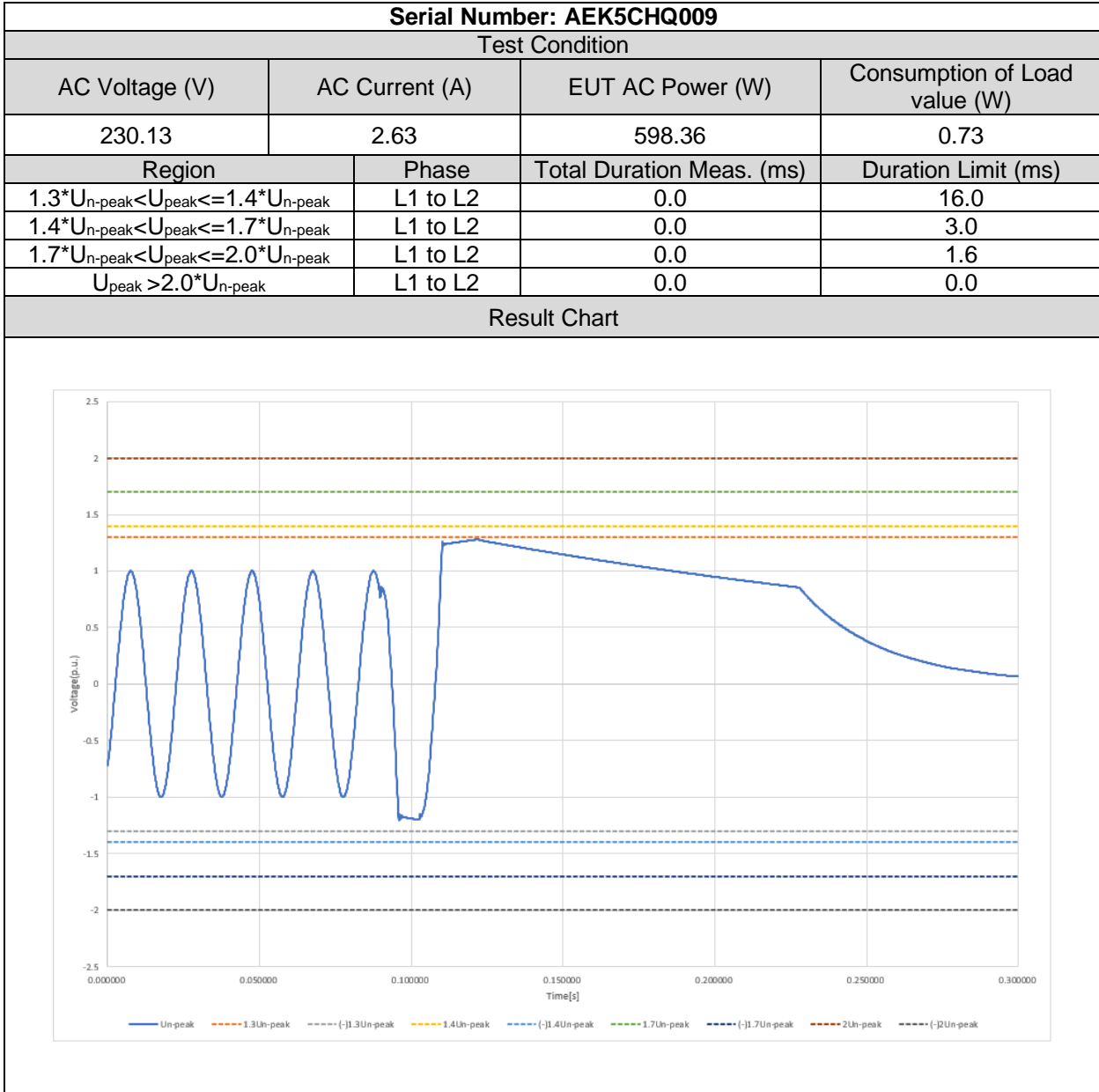
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5) Test-5: EUT output level = 66%P_{rated} & Load level = 50%P_{rated}

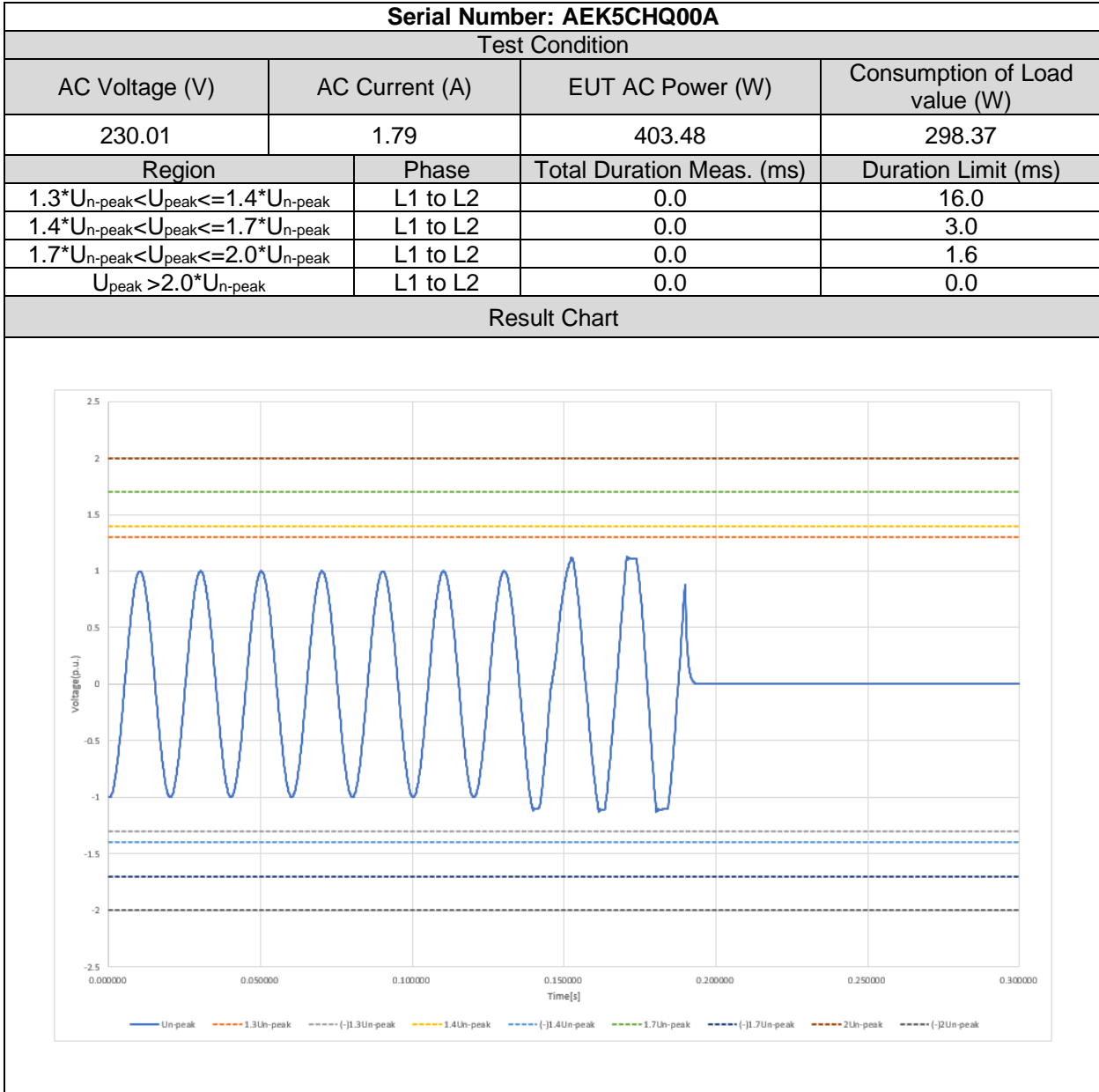
Serial Number: AEK2CB7006			
Test Condition			
AC Voltage (V)	AC Current (A)	EUT AC Power (W)	Consumption of Load value (W)
230.02	1.77	401.09	298.44
Region	Phase	Total Duration Meas. (ms)	Duration Limit (ms)
$1.3 \cdot U_{n-peak} < U_{peak} \leq 1.4 \cdot U_{n-peak}$	L1 to L2	0.0	16.0
$1.4 \cdot U_{n-peak} < U_{peak} \leq 1.7 \cdot U_{n-peak}$	L1 to L2	0.0	3.0
$1.7 \cdot U_{n-peak} < U_{peak} \leq 2.0 \cdot U_{n-peak}$	L1 to L2	0.0	1.6
$U_{peak} > 2.0 \cdot U_{n-peak}$	L1 to L2	0.0	0.0
Result Chart			



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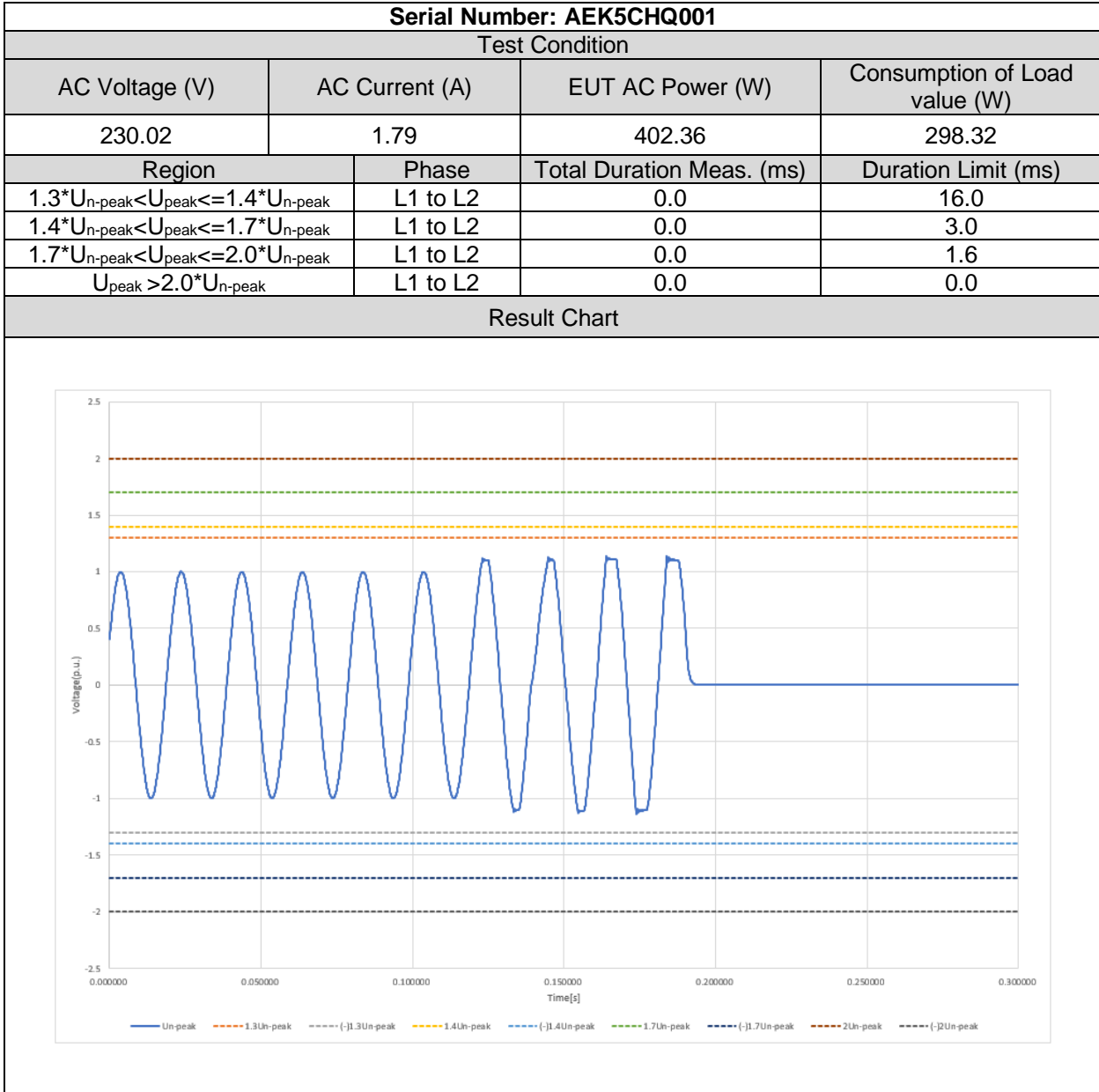
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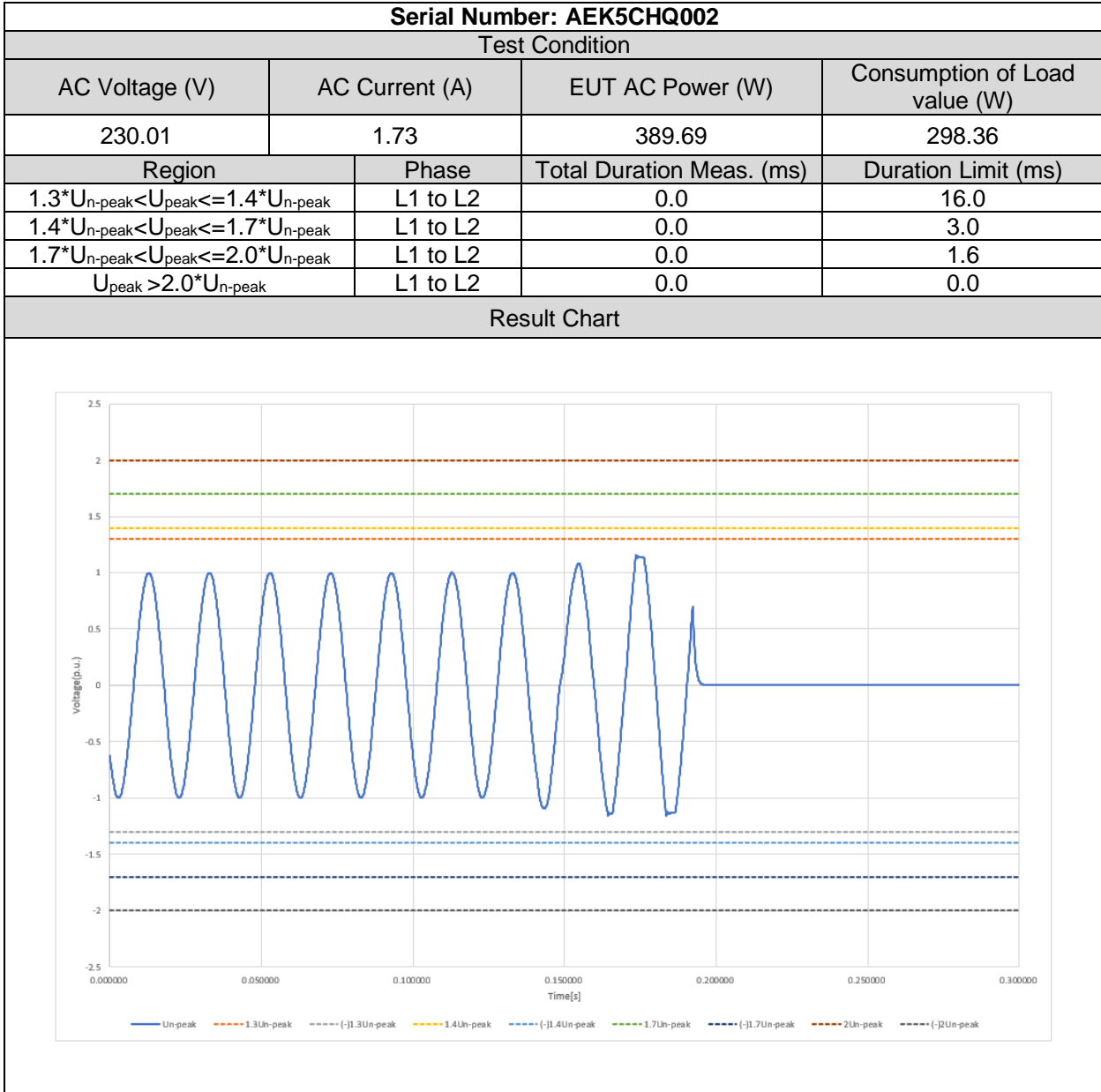
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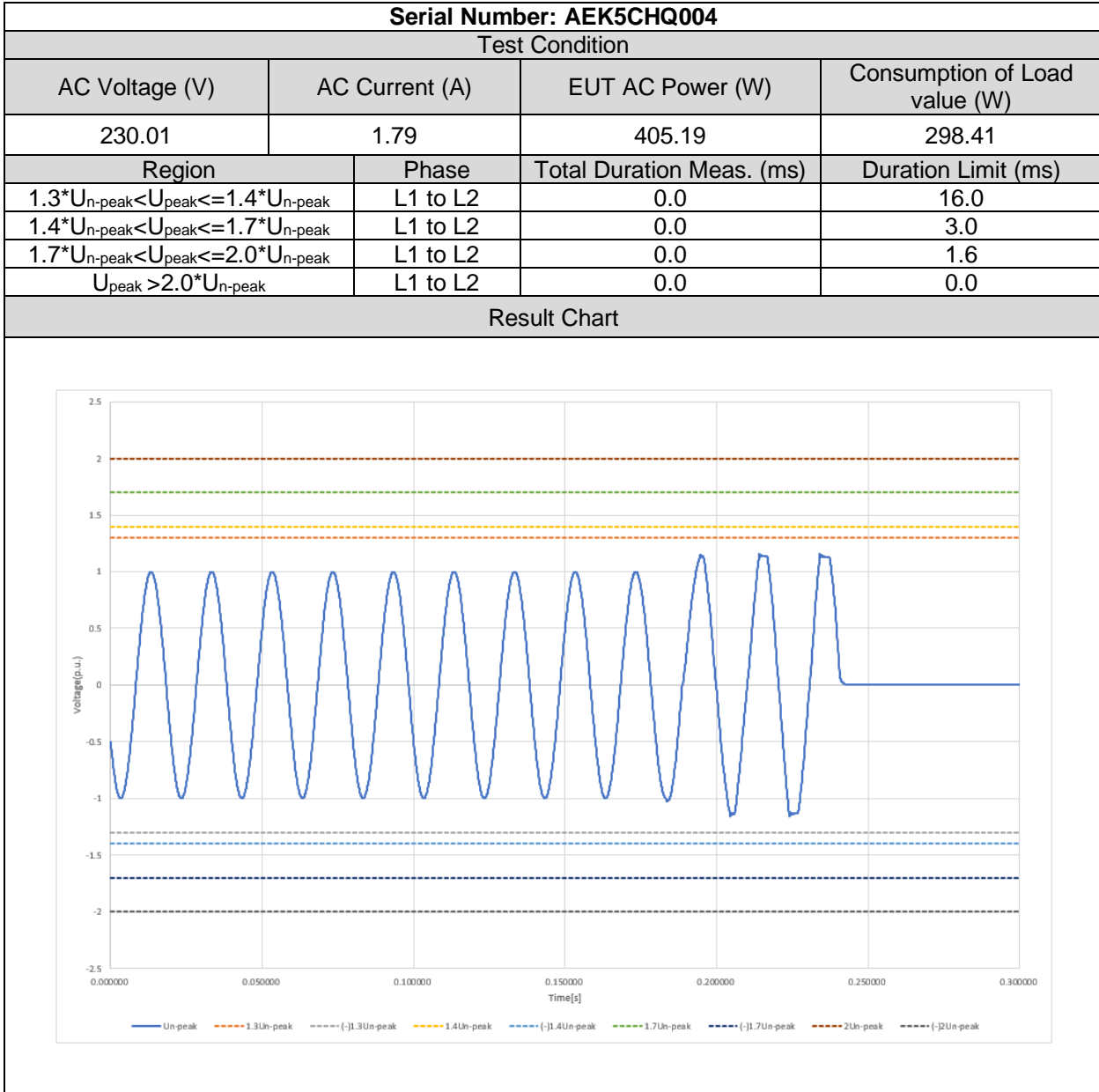
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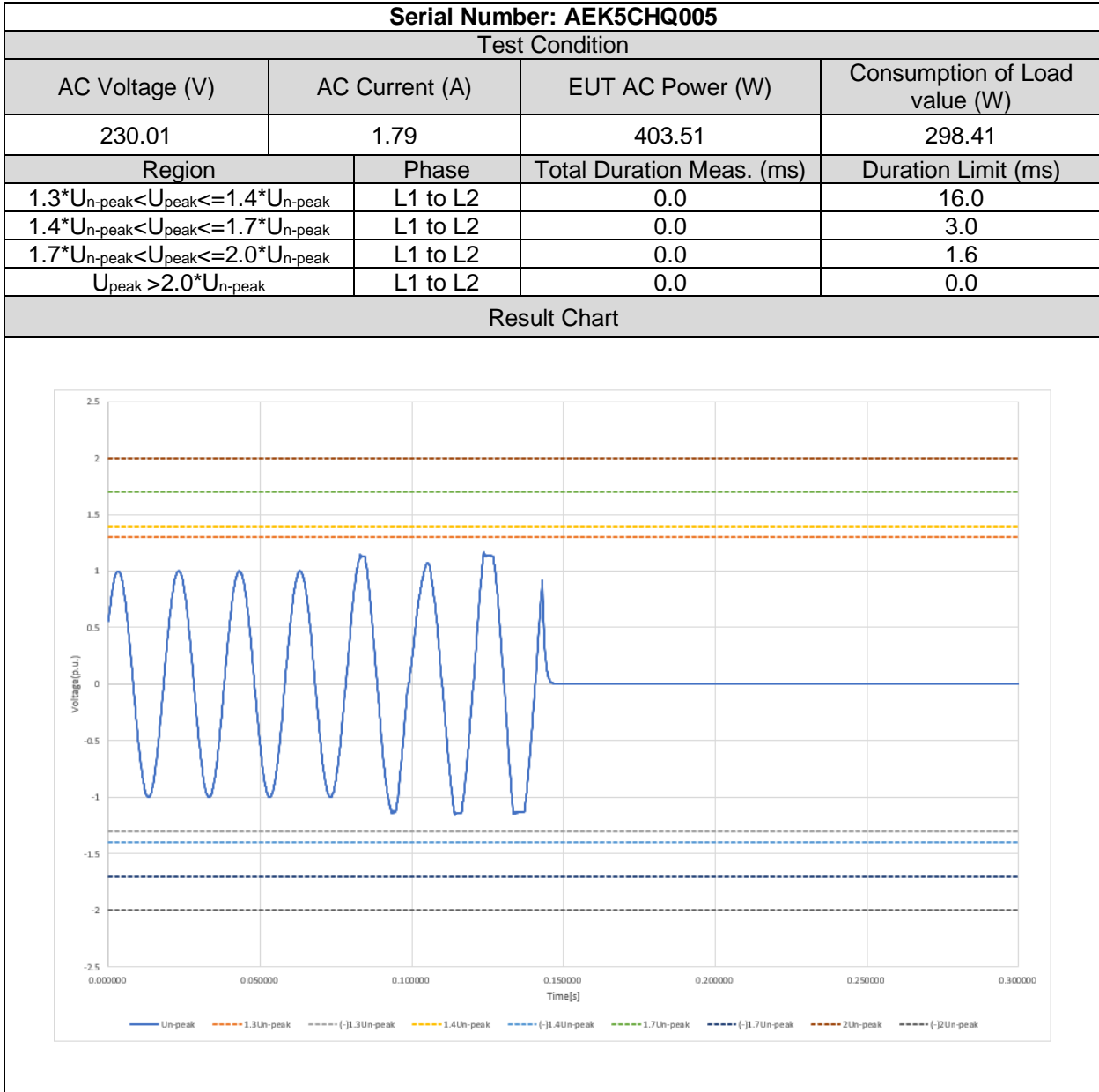
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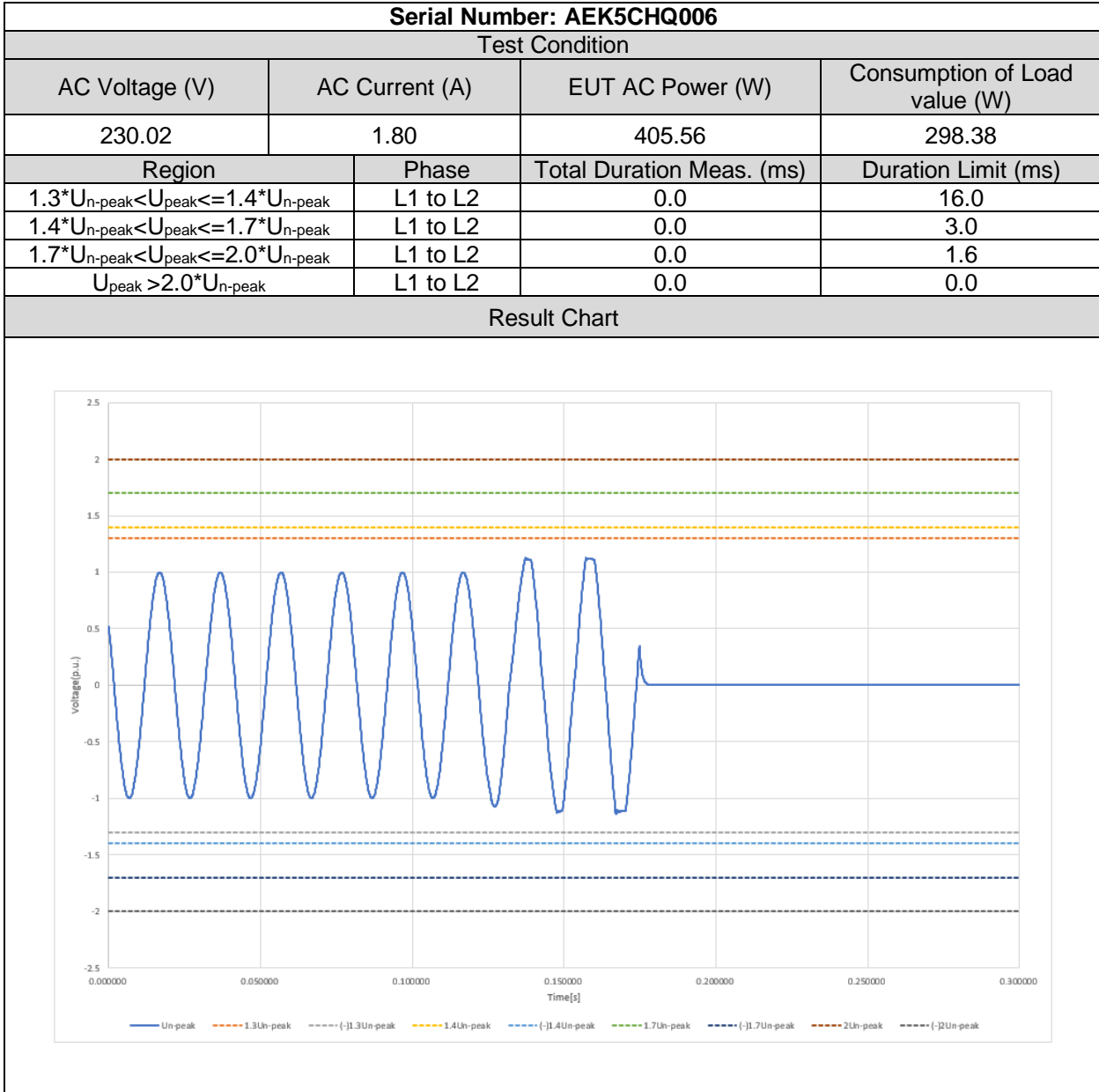
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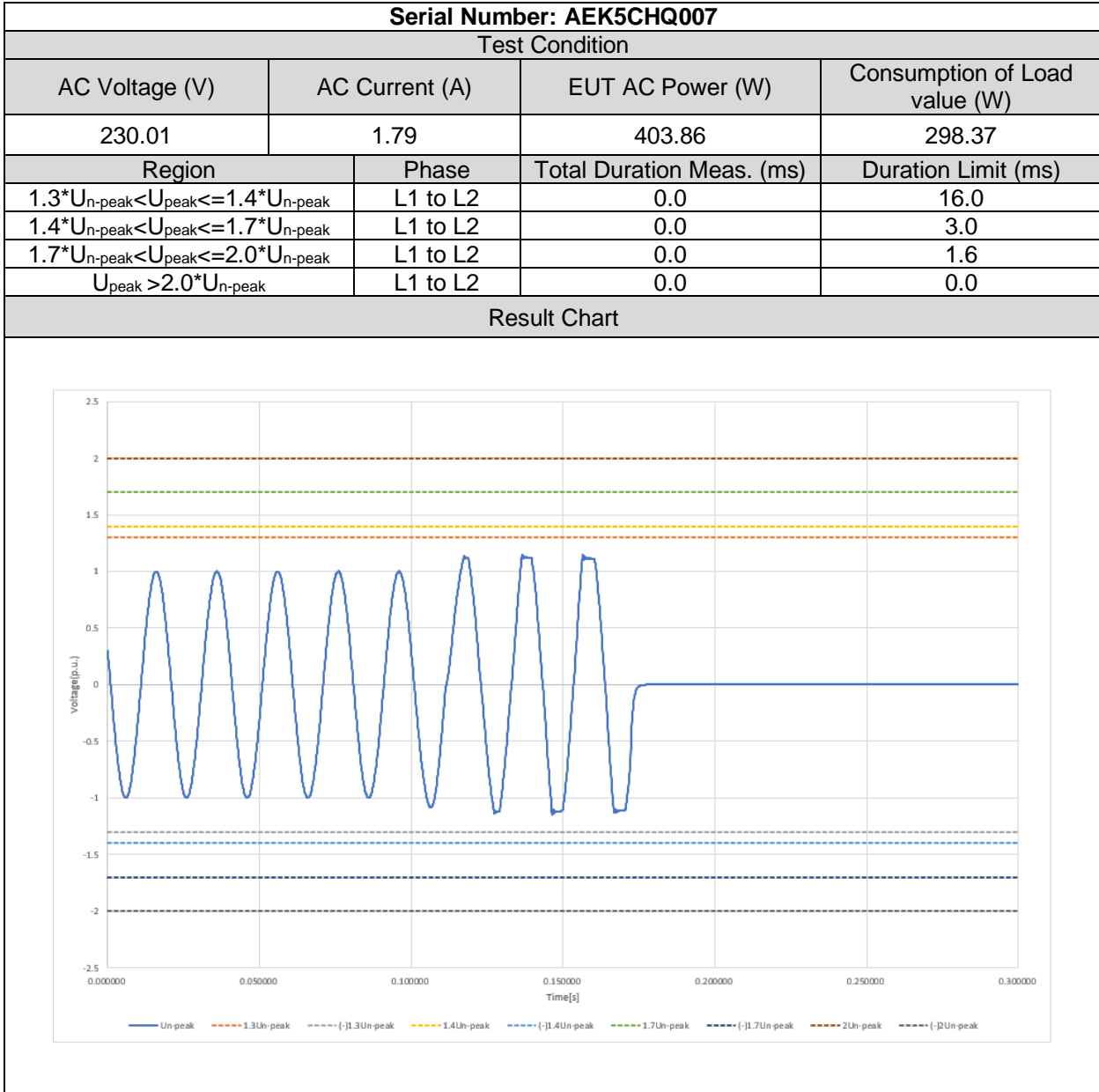
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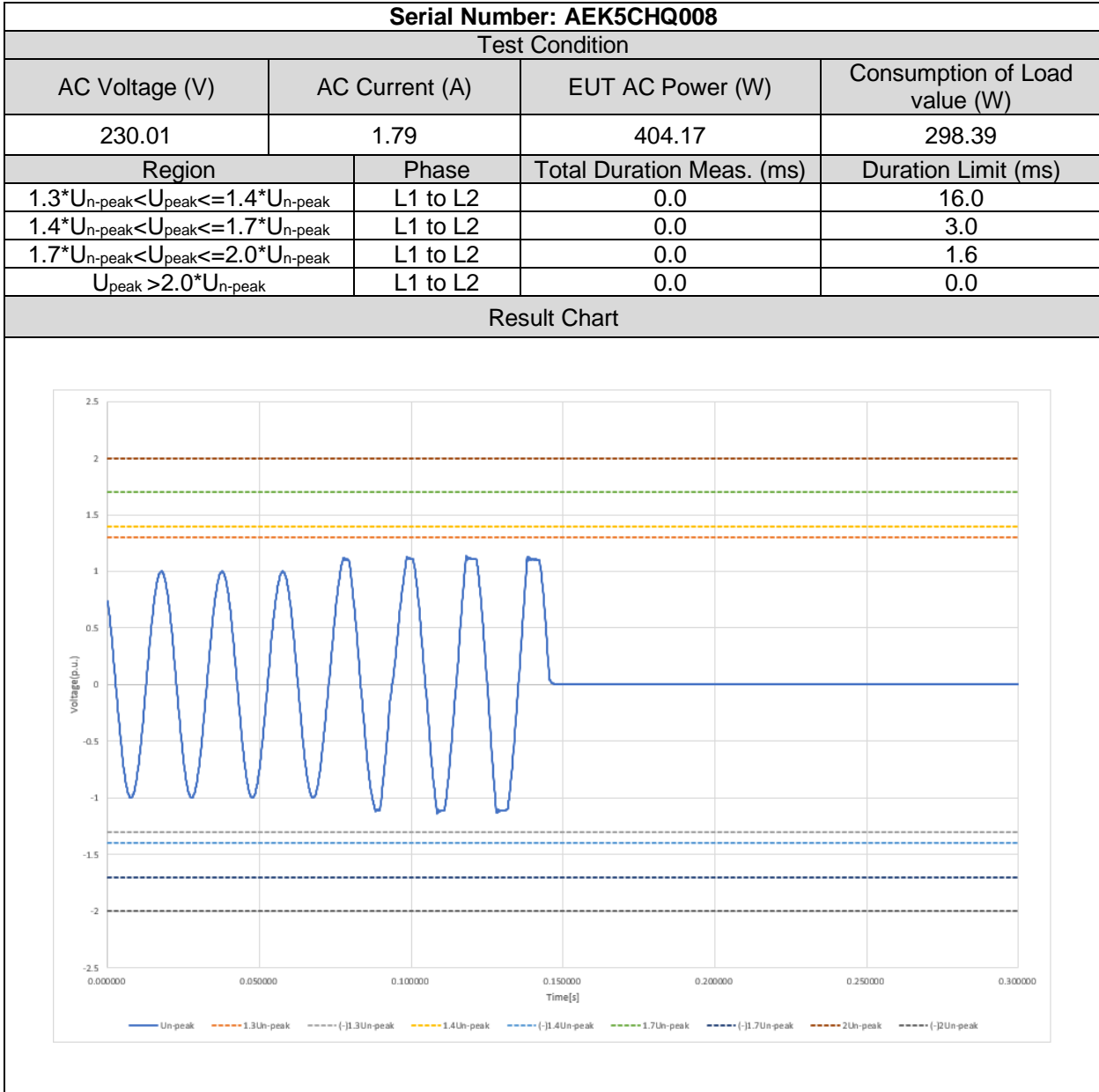
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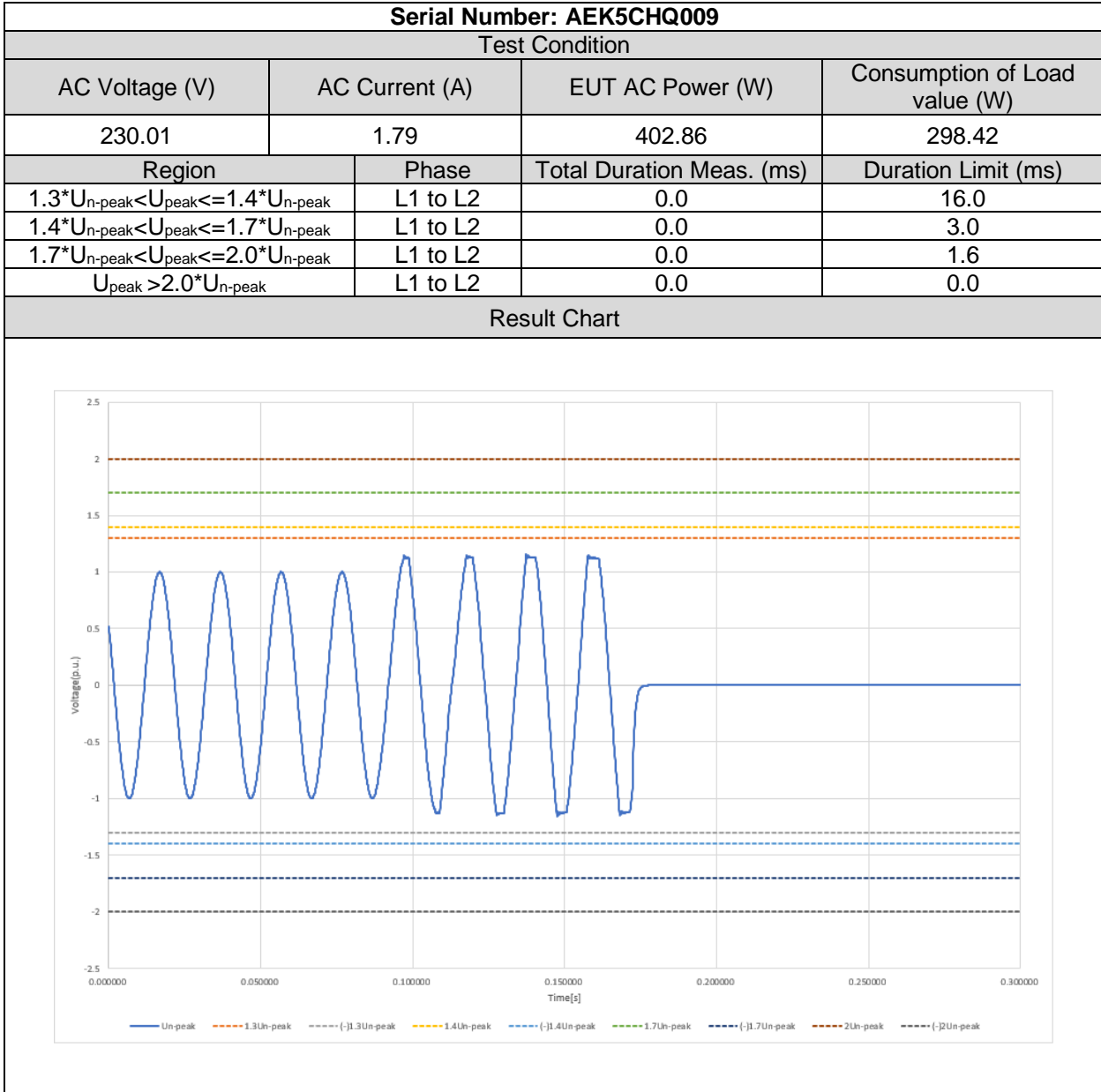
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6) Test-6: EUT output level = 66%P_{rated} & Load level = 33%P_{rated}

Serial Number: AEK2CB7006			
Test Condition			
AC Voltage (V)	AC Current (A)	EUT AC Power (W)	Consumption of Load value (W)
230.04	1.79	403.63	196.49
Region	Phase	Total Duration Meas. (ms)	Duration Limit (ms)
$1.3 \cdot U_{n-peak} < U_{peak} \leq 1.4 \cdot U_{n-peak}$	L1 to L2	0.0	16.0
$1.4 \cdot U_{n-peak} < U_{peak} \leq 1.7 \cdot U_{n-peak}$	L1 to L2	0.0	3.0
$1.7 \cdot U_{n-peak} < U_{peak} \leq 2.0 \cdot U_{n-peak}$	L1 to L2	0.0	1.6
$U_{peak} > 2.0 \cdot U_{n-peak}$	L1 to L2	0.0	0.0
Result Chart			



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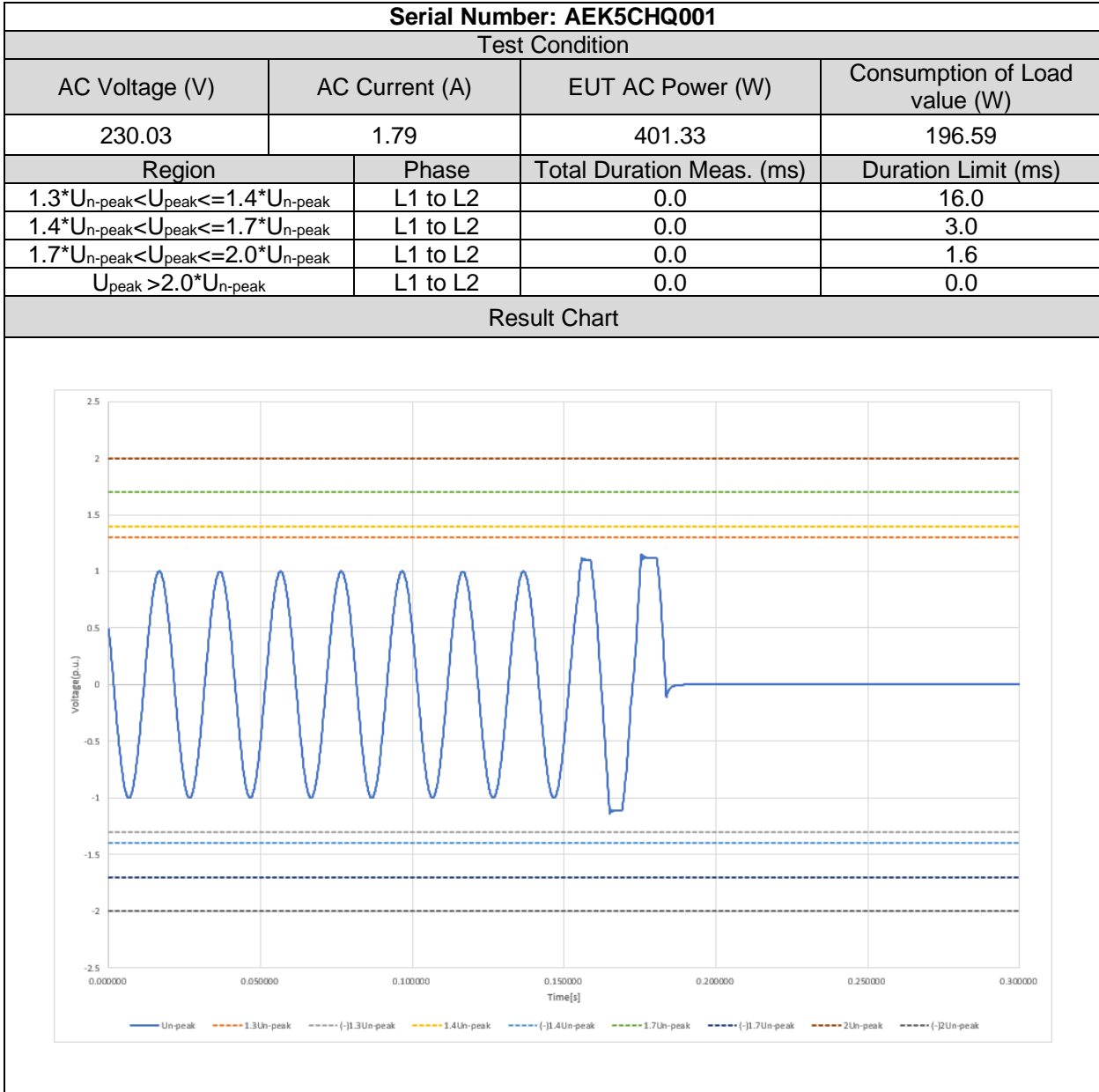
Serial Number: AEK5CHQ00A			
Test Condition			
AC Voltage (V)	AC Current (A)	EUT AC Power (W)	Consumption of Load value (W)
230.04	1.78	400.46	196.50
Region	Phase	Total Duration Meas. (ms)	Duration Limit (ms)
$1.3 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 1.4 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	16.0
$1.4 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 1.7 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	3.0
$1.7 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 2.0 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	1.6
$U_{\text{peak}} > 2.0 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	0.0

Result Chart	
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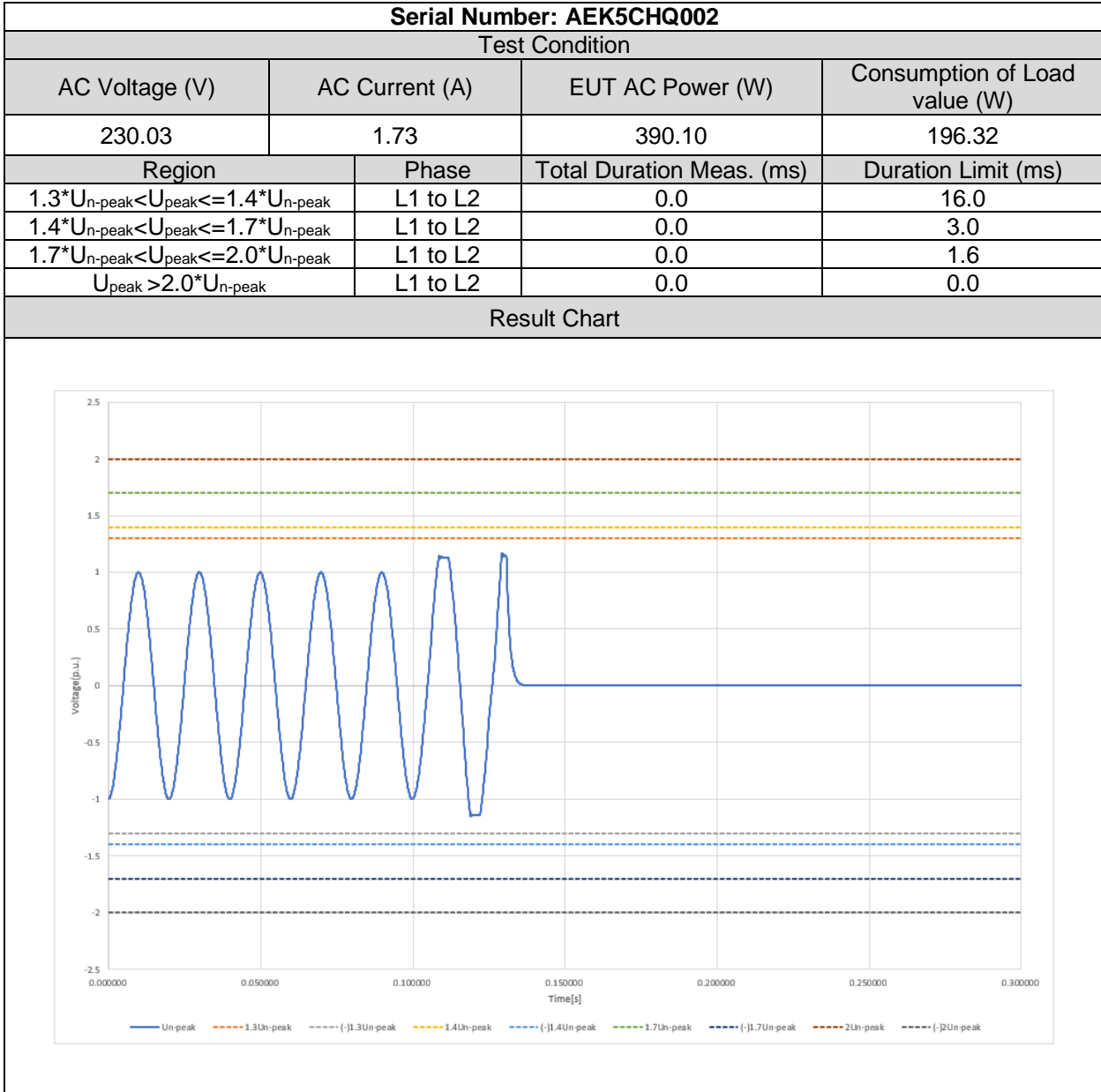
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Serial Number: AEK5CHQ004			
Test Condition			
AC Voltage (V)	AC Current (A)	EUT AC Power (W)	Consumption of Load value (W)
230.04	1.80	406.54	196.48
Region	Phase	Total Duration Meas. (ms)	Duration Limit (ms)
$1.3 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 1.4 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	16.0
$1.4 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 1.7 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	3.0
$1.7 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 2.0 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	1.6
$U_{\text{peak}} > 2.0 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	0.0

Result Chart	



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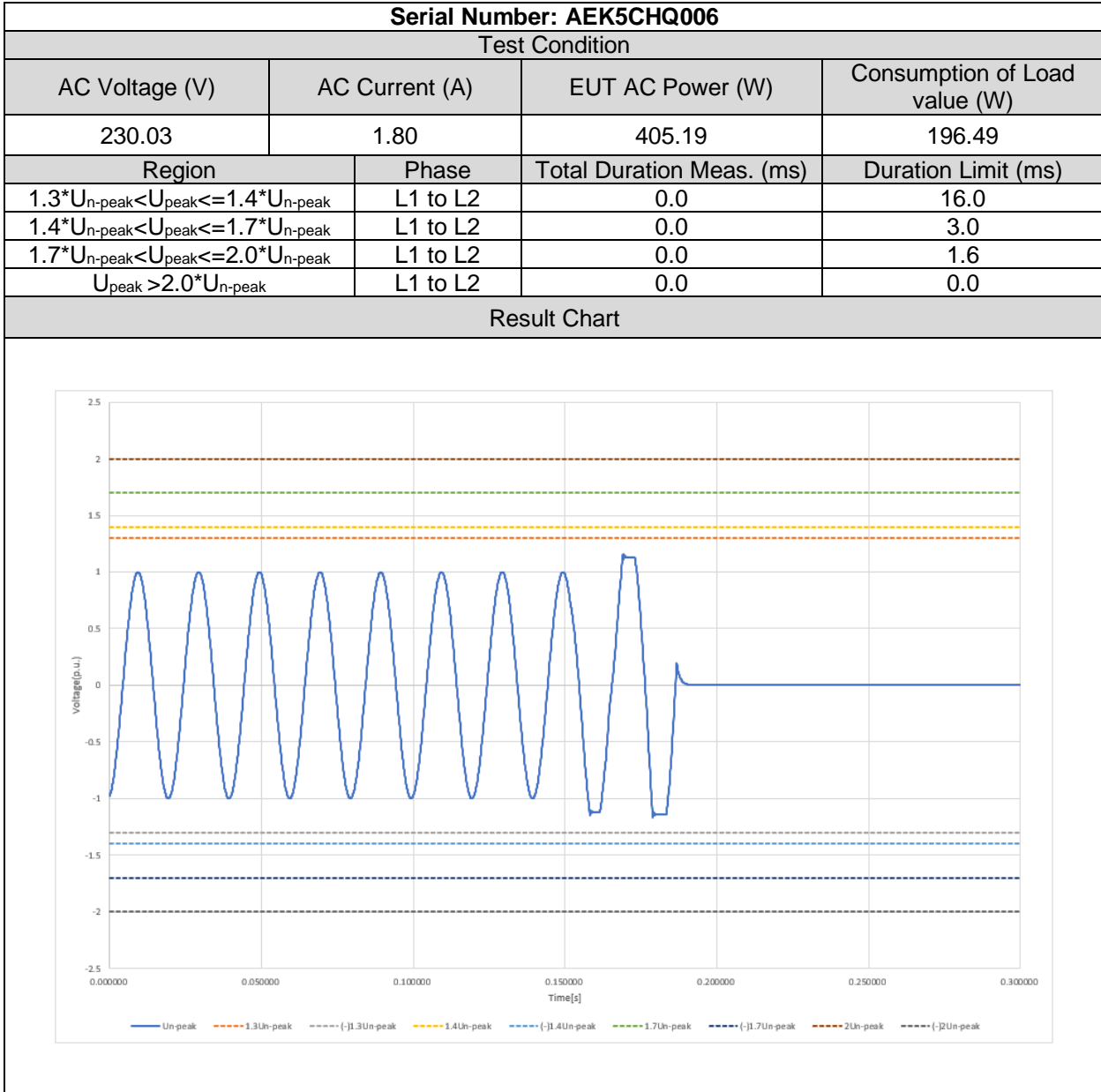
Serial Number: AEK5CHQ005			
Test Condition			
AC Voltage (V)	AC Current (A)	EUT AC Power (W)	Consumption of Load value (W)
230.04	1.80	406.86	196.43
Region	Phase	Total Duration Meas. (ms)	Duration Limit (ms)
$1.3 \cdot U_{n-peak} < U_{peak} \leq 1.4 \cdot U_{n-peak}$	L1 to L2	0.0	16.0
$1.4 \cdot U_{n-peak} < U_{peak} \leq 1.7 \cdot U_{n-peak}$	L1 to L2	0.0	3.0
$1.7 \cdot U_{n-peak} < U_{peak} \leq 2.0 \cdot U_{n-peak}$	L1 to L2	0.0	1.6
$U_{peak} > 2.0 \cdot U_{n-peak}$	L1 to L2	0.0	0.0

Result Chart	
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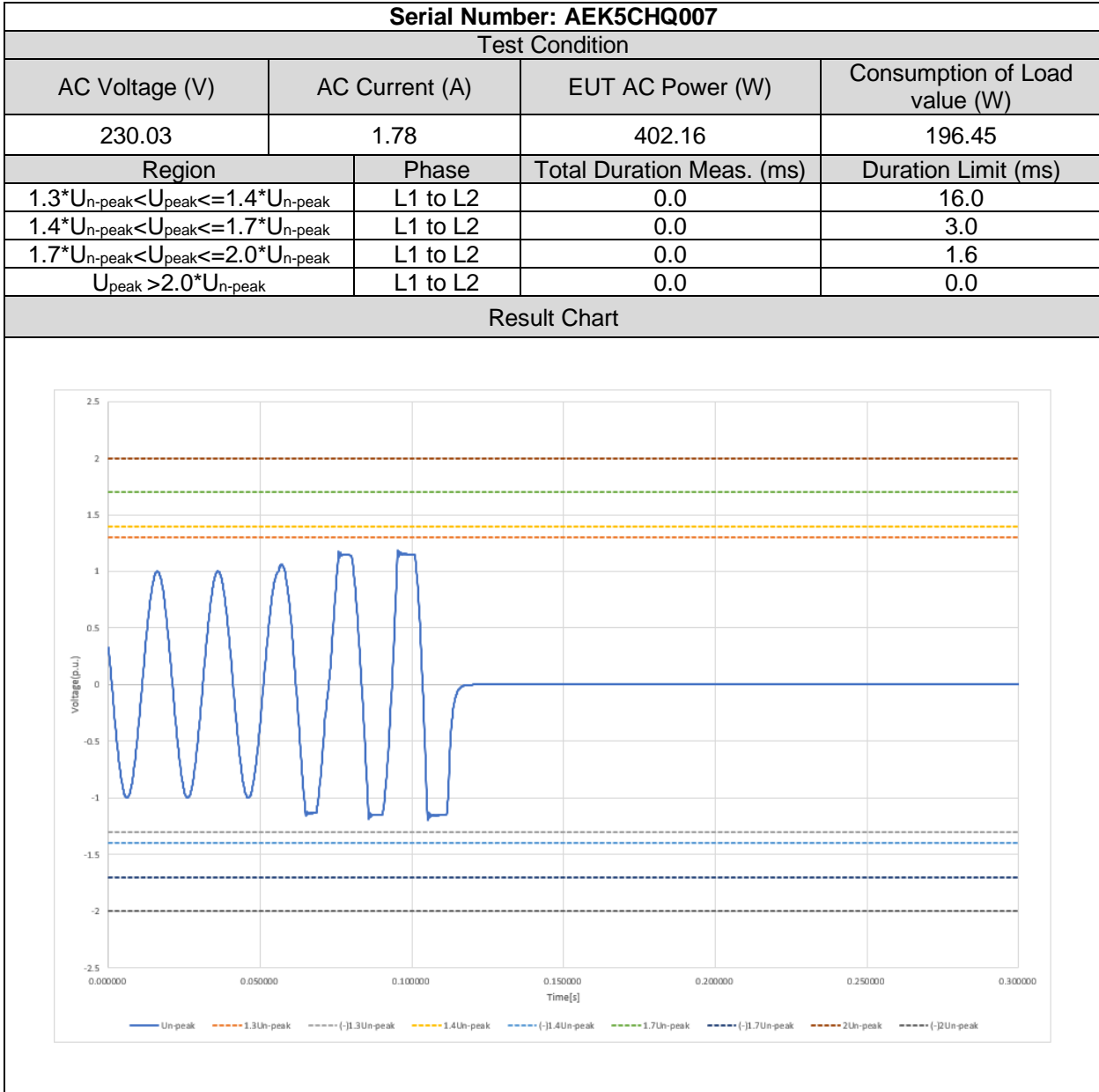
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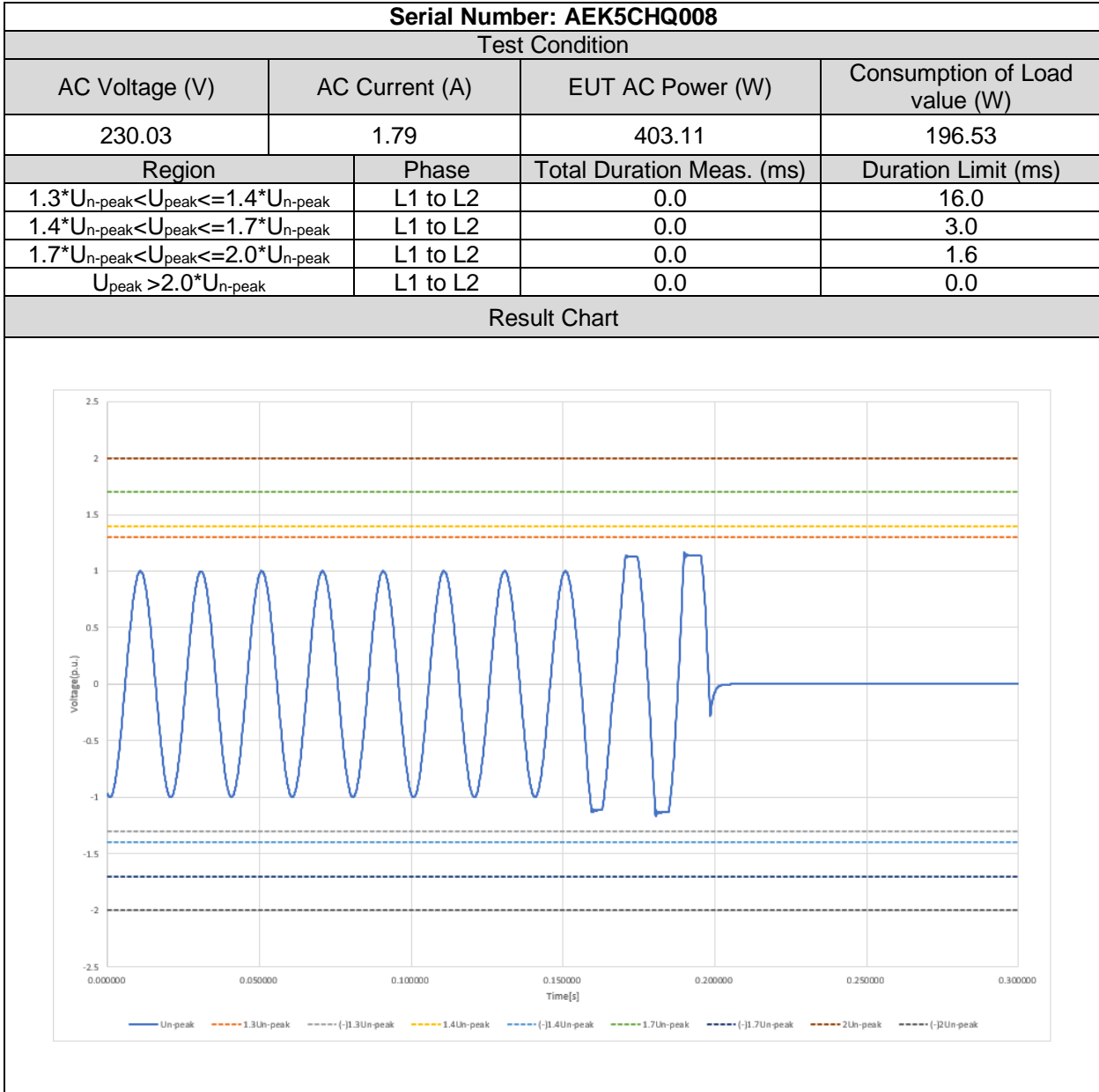
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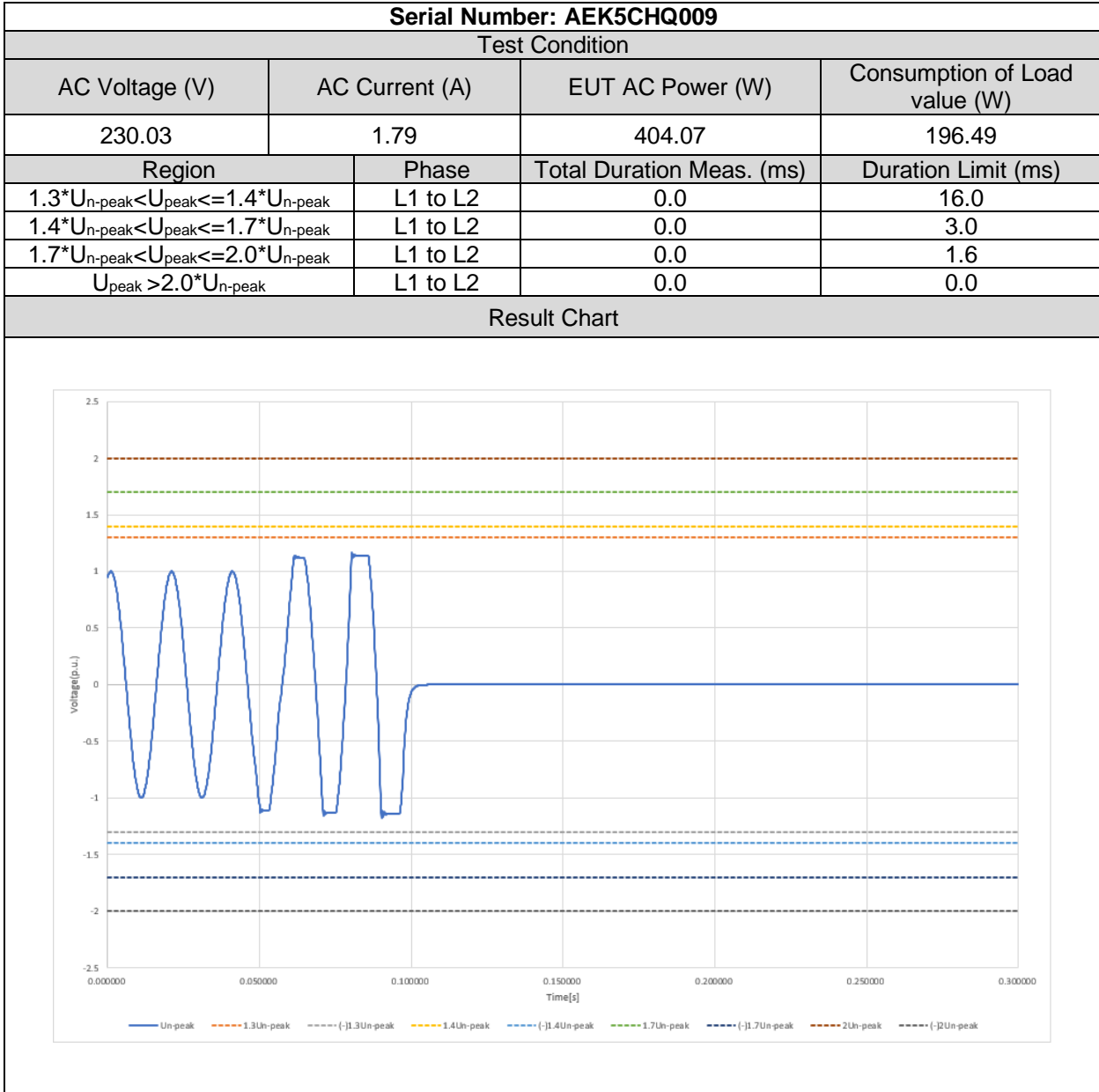
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7) Test-7: EUT output level = 66%P_{rated} & Load level = 10%P_{rated}

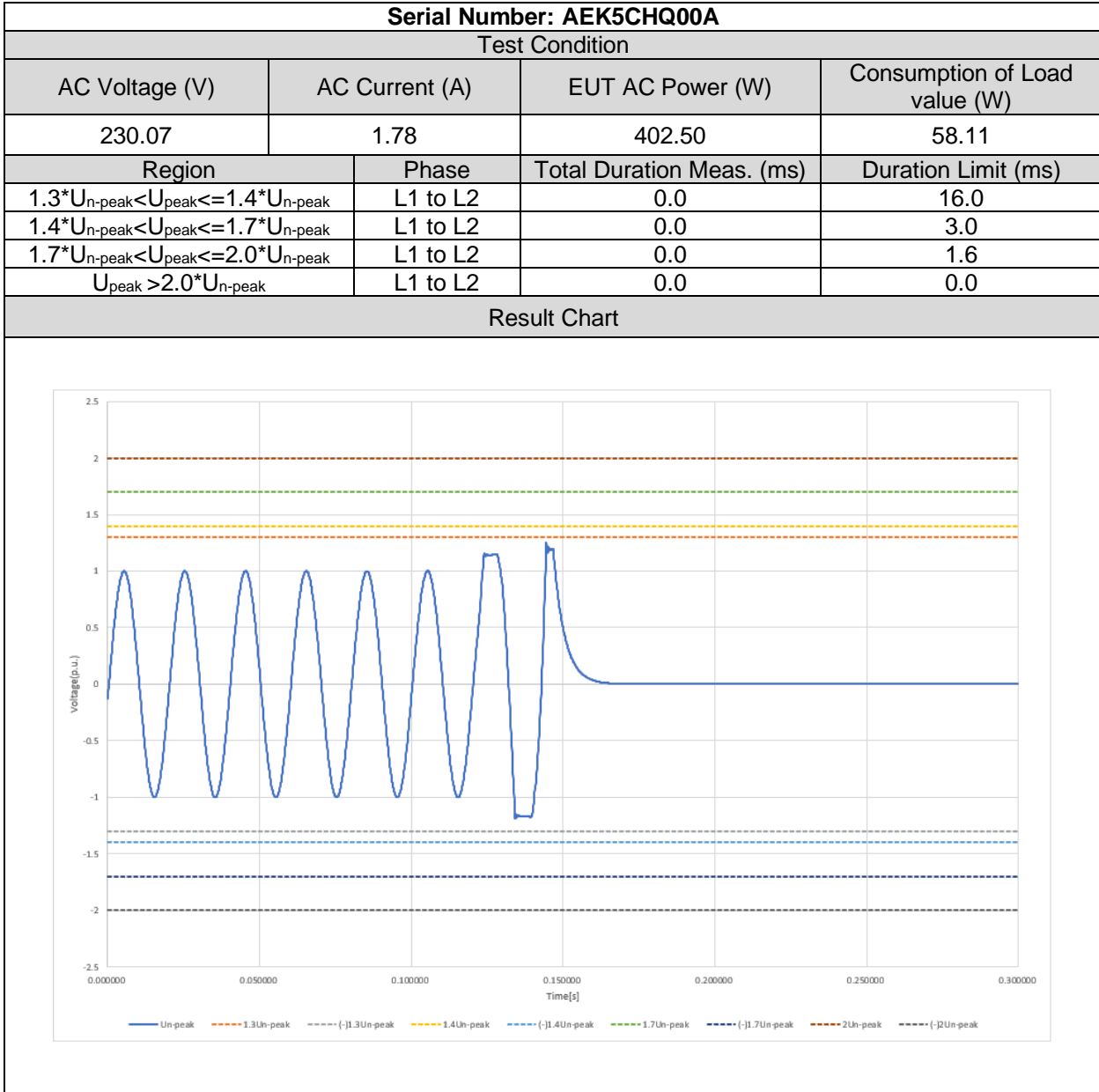
Serial Number: AEK2CB7006			
Test Condition			
AC Voltage (V)	AC Current (A)	EUT AC Power (W)	Consumption of Load value (W)
230.06	1.78	401.57	58.13
Region	Phase	Total Duration Meas. (ms)	Duration Limit (ms)
$1.3 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 1.4 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	16.0
$1.4 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 1.7 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	3.0
$1.7 \cdot U_{n\text{-peak}} < U_{\text{peak}} \leq 2.0 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	1.6
$U_{\text{peak}} > 2.0 \cdot U_{n\text{-peak}}$	L1 to L2	0.0	0.0
Result Chart			



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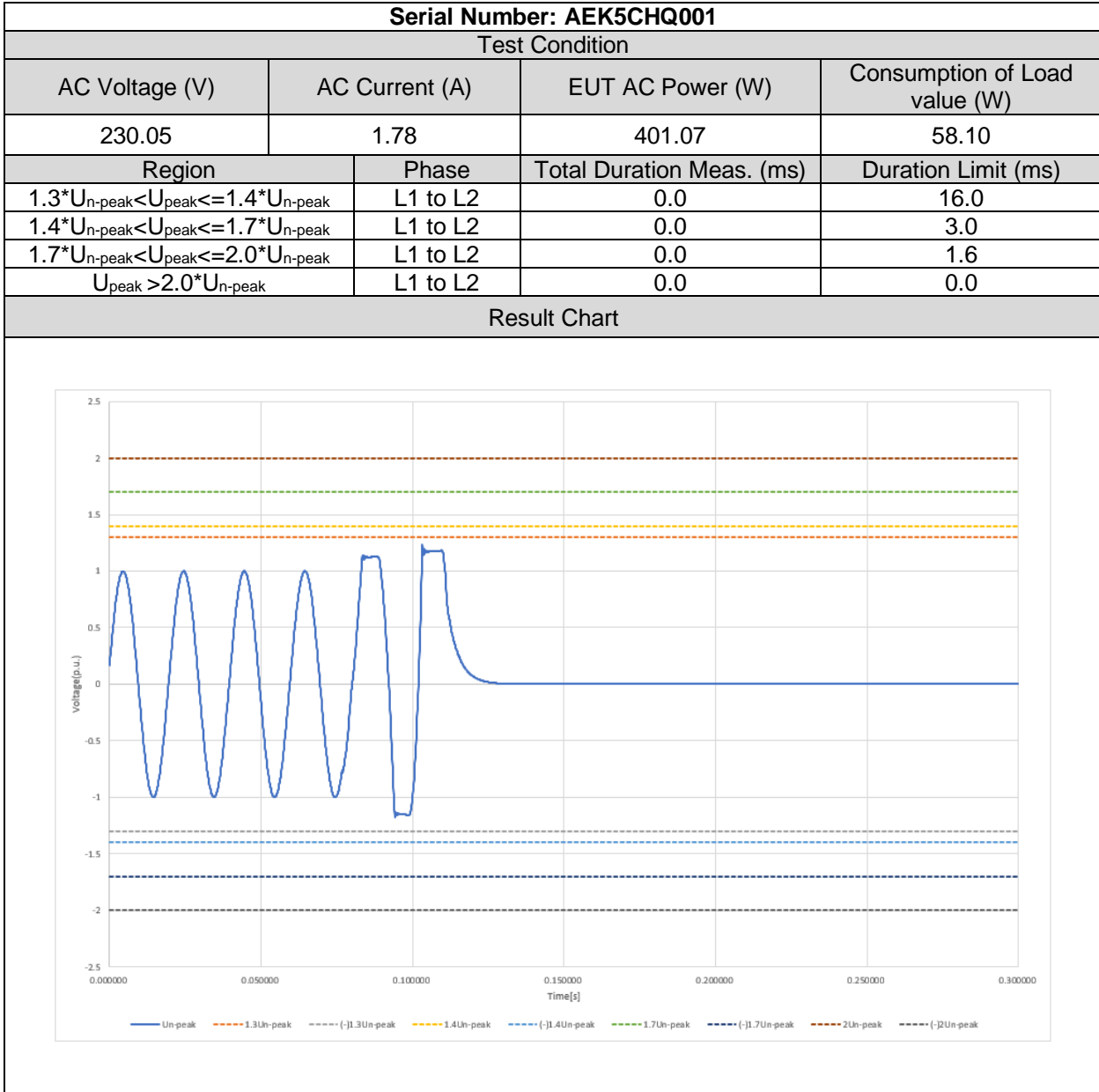
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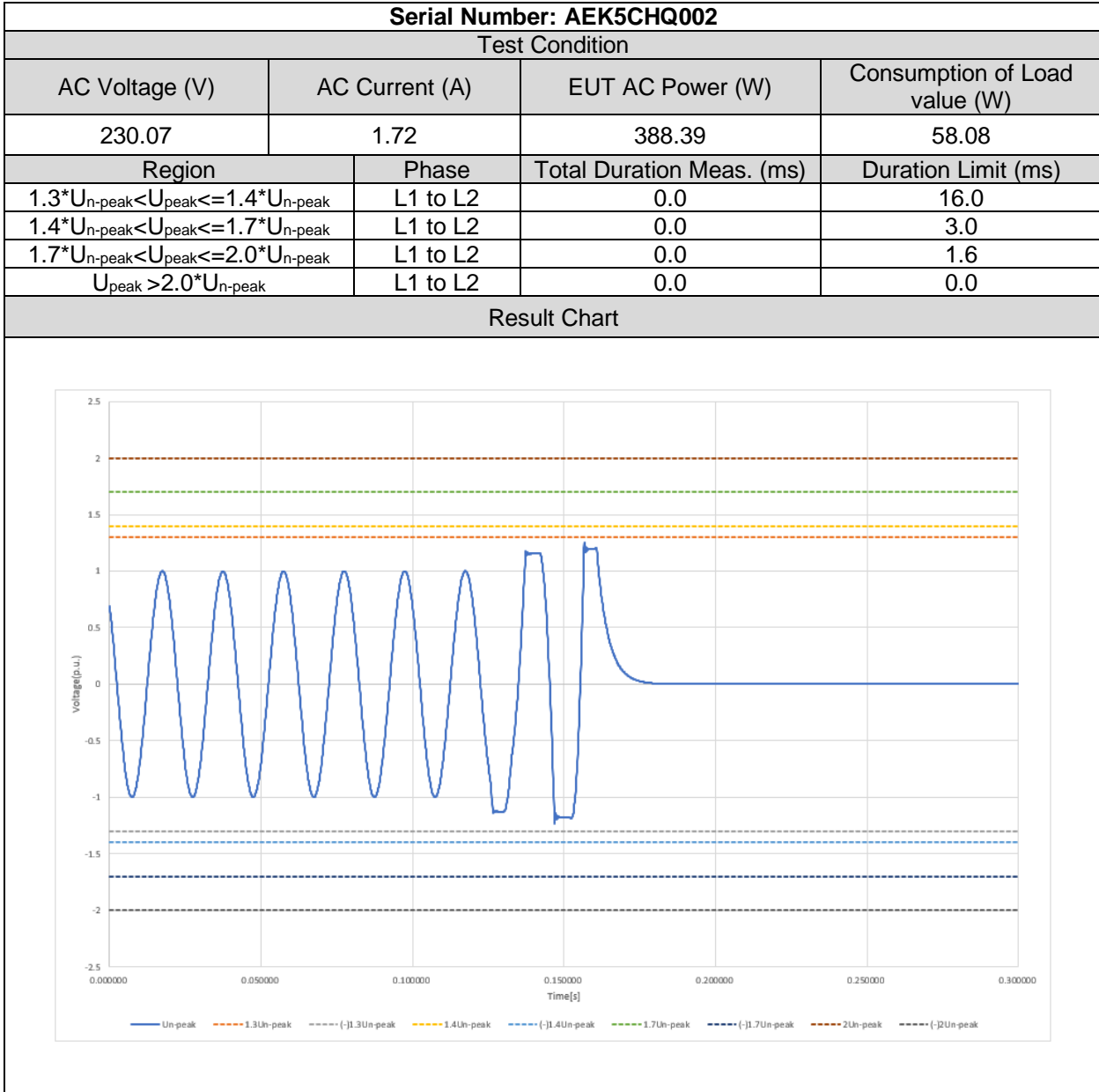
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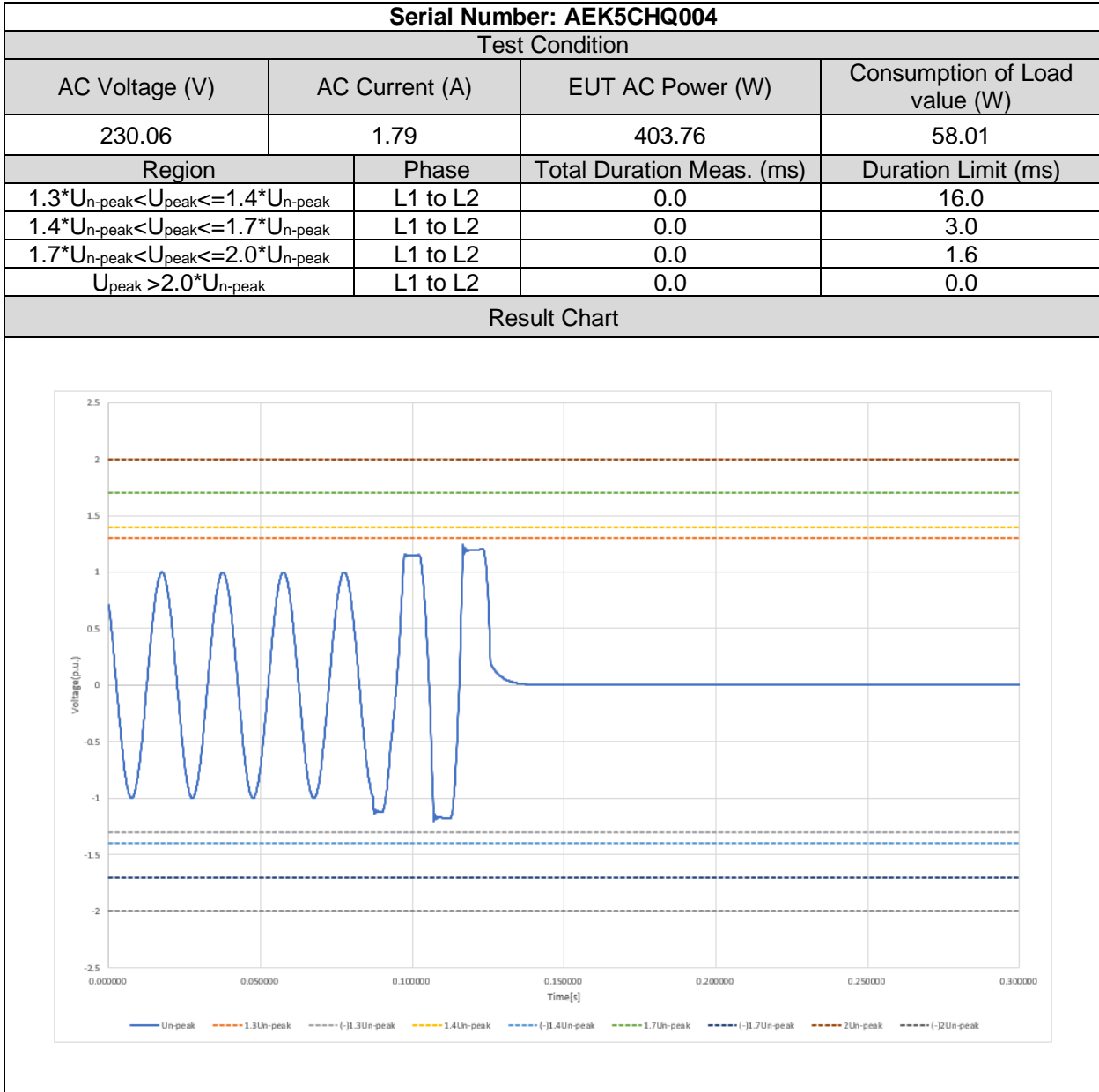
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Serial Number: AEK5CHQ005			
Test Condition			
AC Voltage (V)	AC Current (A)	EUT AC Power (W)	Consumption of Load value (W)
230.06	1.79	403.16	58.07
Region	Phase	Total Duration Meas. (ms)	Duration Limit (ms)
$1.3 \cdot U_{n-peak} < U_{peak} \leq 1.4 \cdot U_{n-peak}$	L1 to L2	0.0	16.0
$1.4 \cdot U_{n-peak} < U_{peak} \leq 1.7 \cdot U_{n-peak}$	L1 to L2	0.0	3.0
$1.7 \cdot U_{n-peak} < U_{peak} \leq 2.0 \cdot U_{n-peak}$	L1 to L2	0.0	1.6
$U_{peak} > 2.0 \cdot U_{n-peak}$	L1 to L2	0.0	0.0

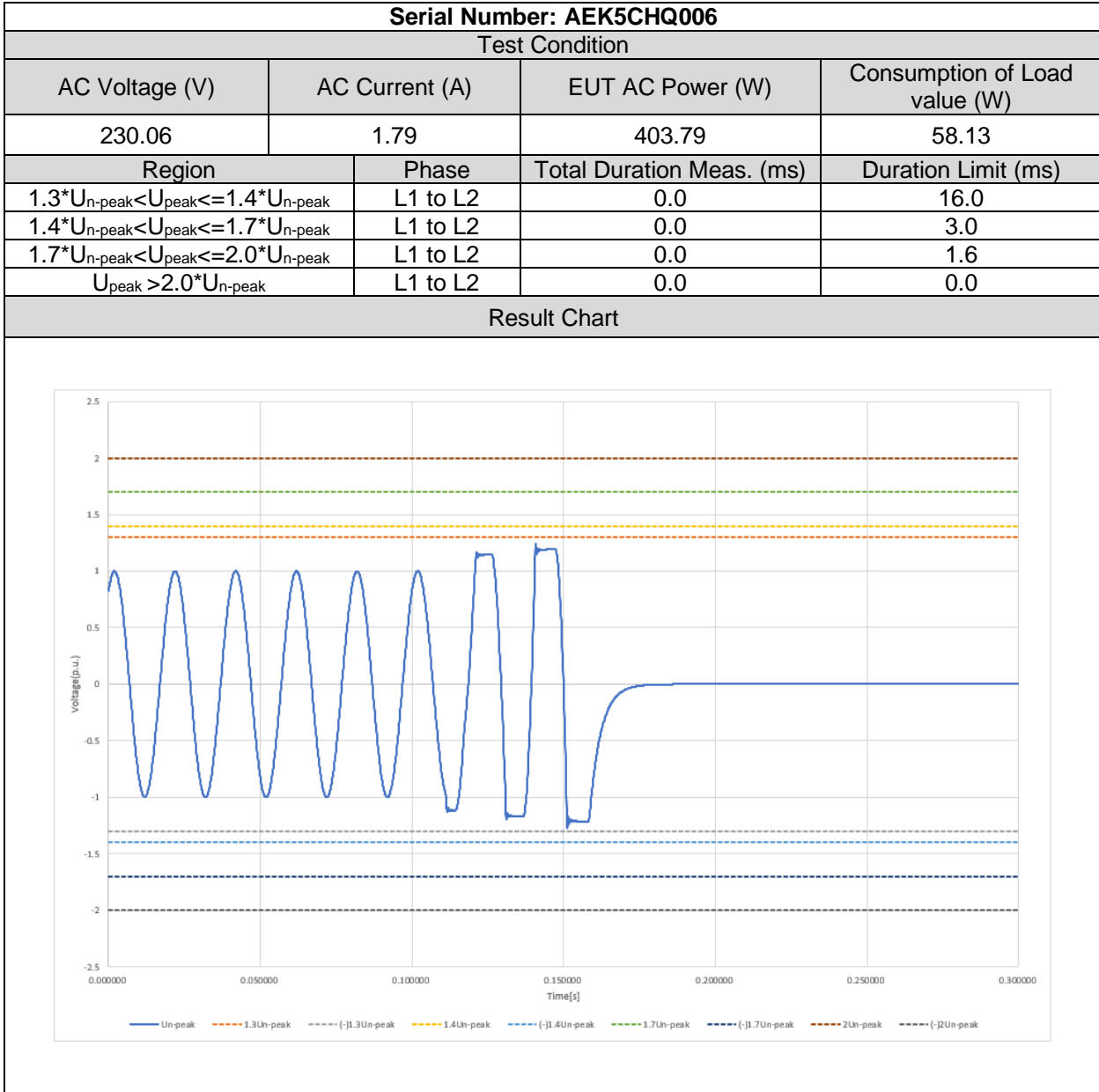
Result Chart	
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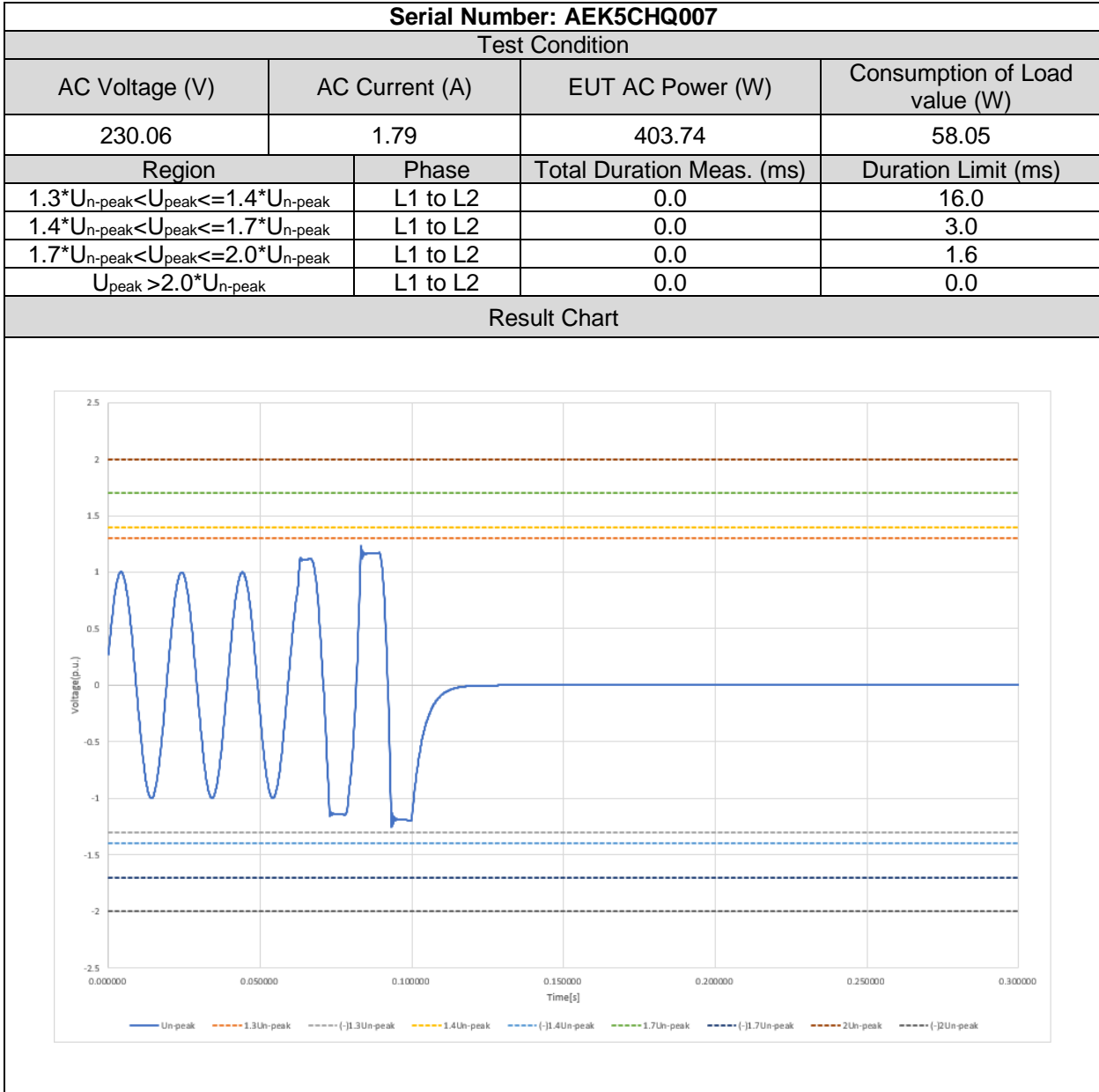
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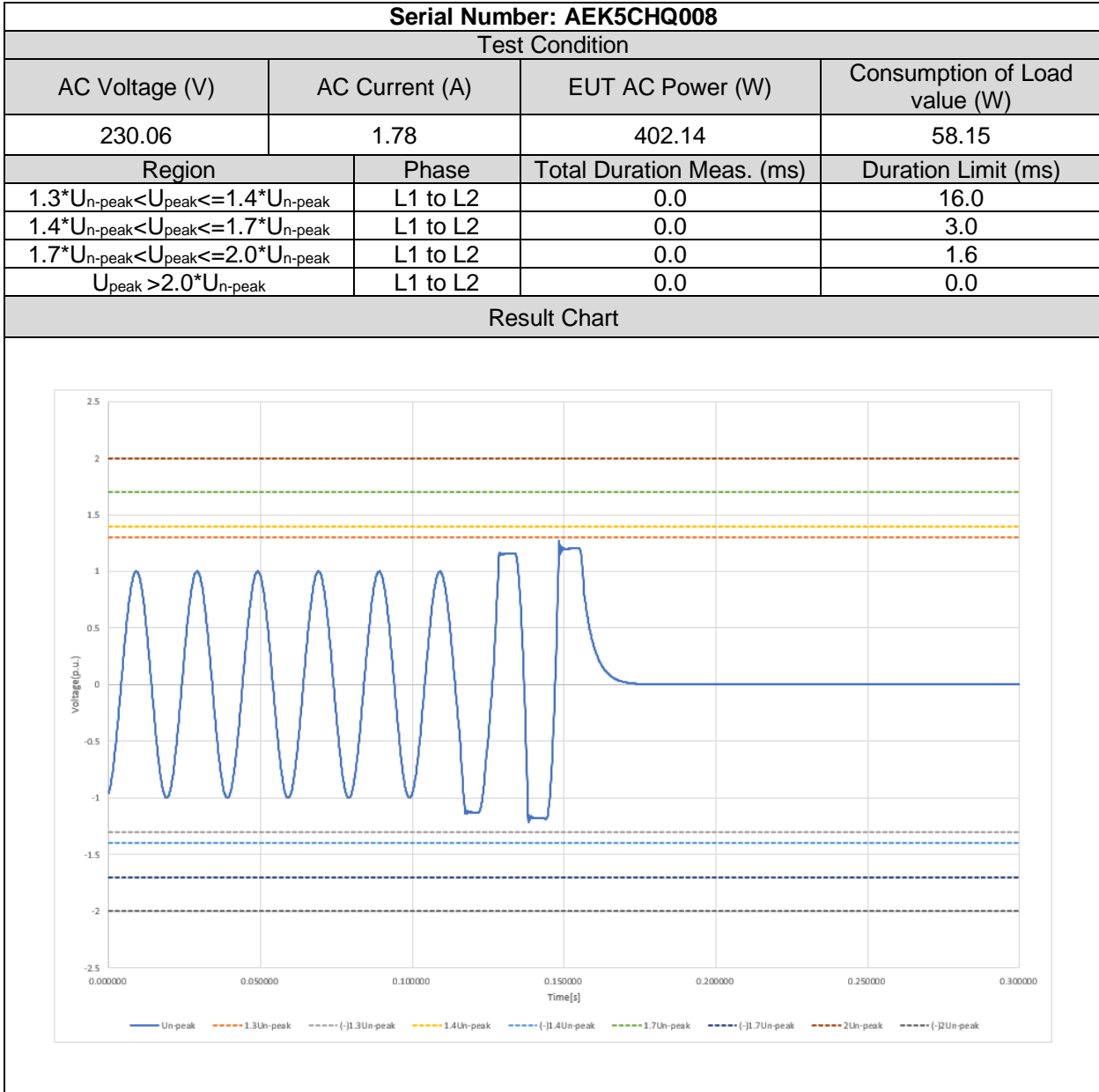
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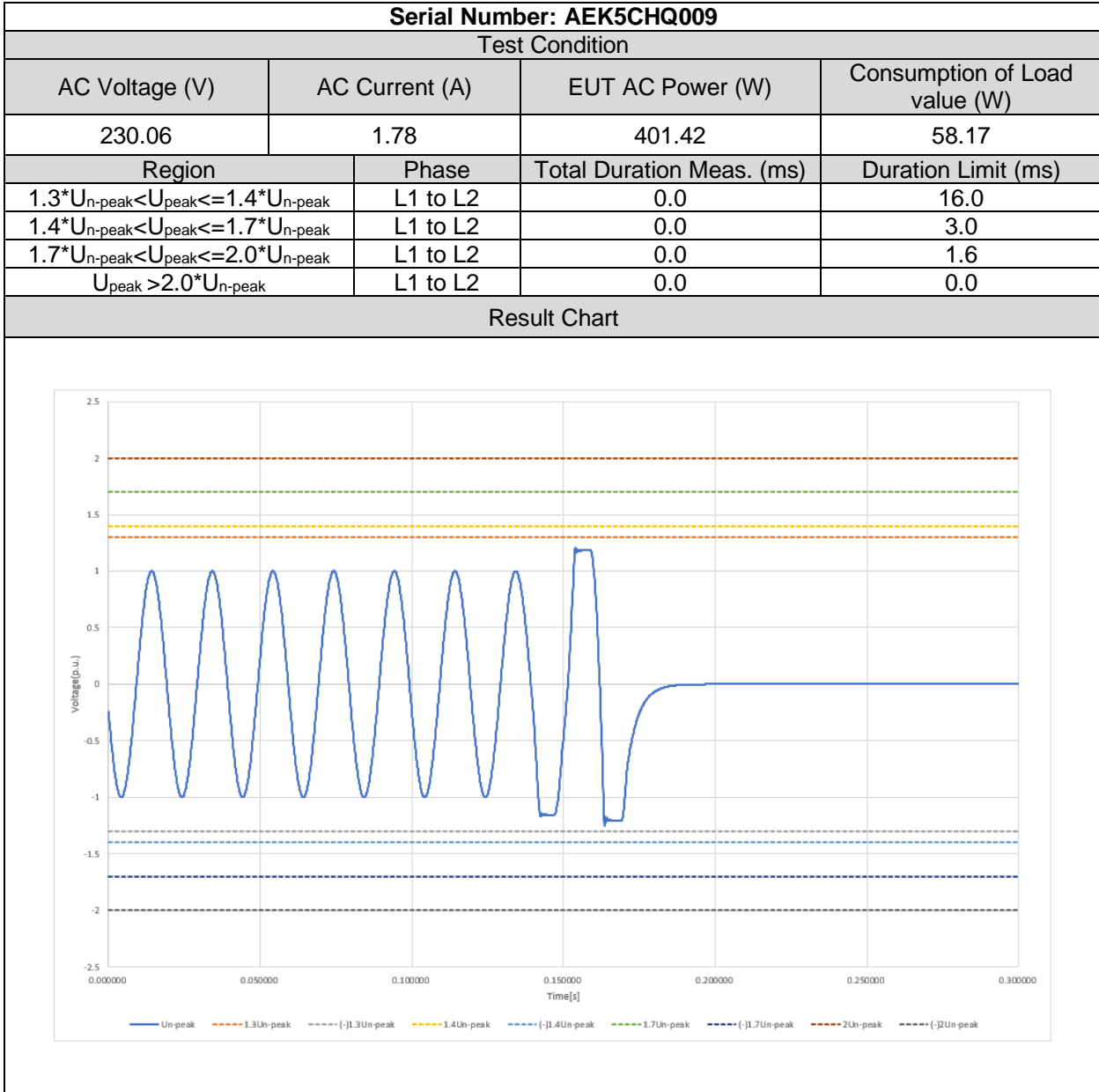
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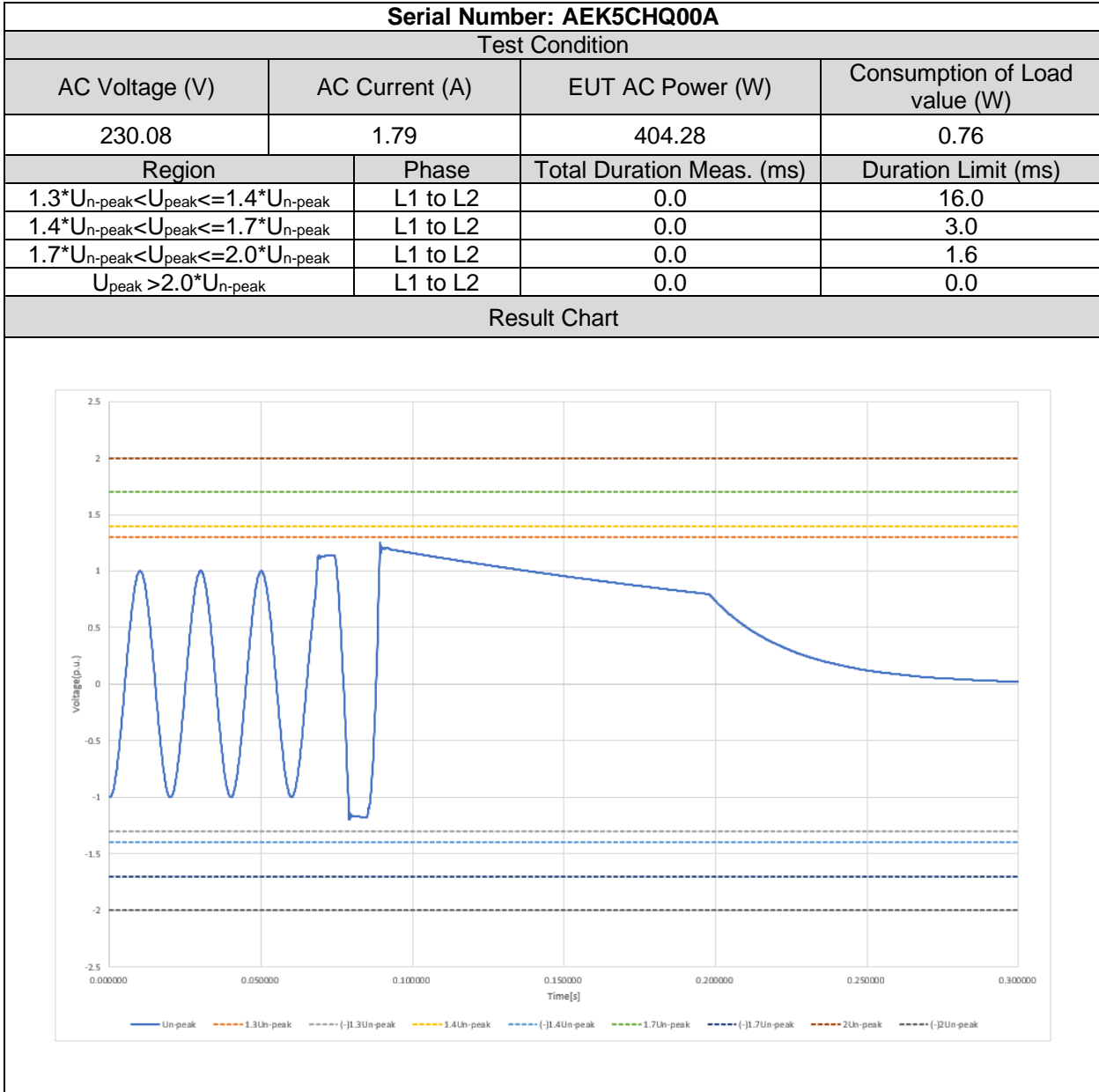
8) Test-8: EUT output level = 66%P_{rated} & Load level = 0%P_{rated}

Serial Number: AEK2CB7006			
Test Condition			
AC Voltage (V)	AC Current (A)	EUT AC Power (W)	Consumption of Load value (W)
230.08	1.78	402.14	0.80
Region	Phase	Total Duration Meas. (ms)	Duration Limit (ms)
$1.3 \cdot U_{n-peak} < U_{peak} \leq 1.4 \cdot U_{n-peak}$	L1 to L2	0.0	16.0
$1.4 \cdot U_{n-peak} < U_{peak} \leq 1.7 \cdot U_{n-peak}$	L1 to L2	0.0	3.0
$1.7 \cdot U_{n-peak} < U_{peak} \leq 2.0 \cdot U_{n-peak}$	L1 to L2	0.0	1.6
$U_{peak} > 2.0 \cdot U_{n-peak}$	L1 to L2	0.0	0.0
Result Chart			



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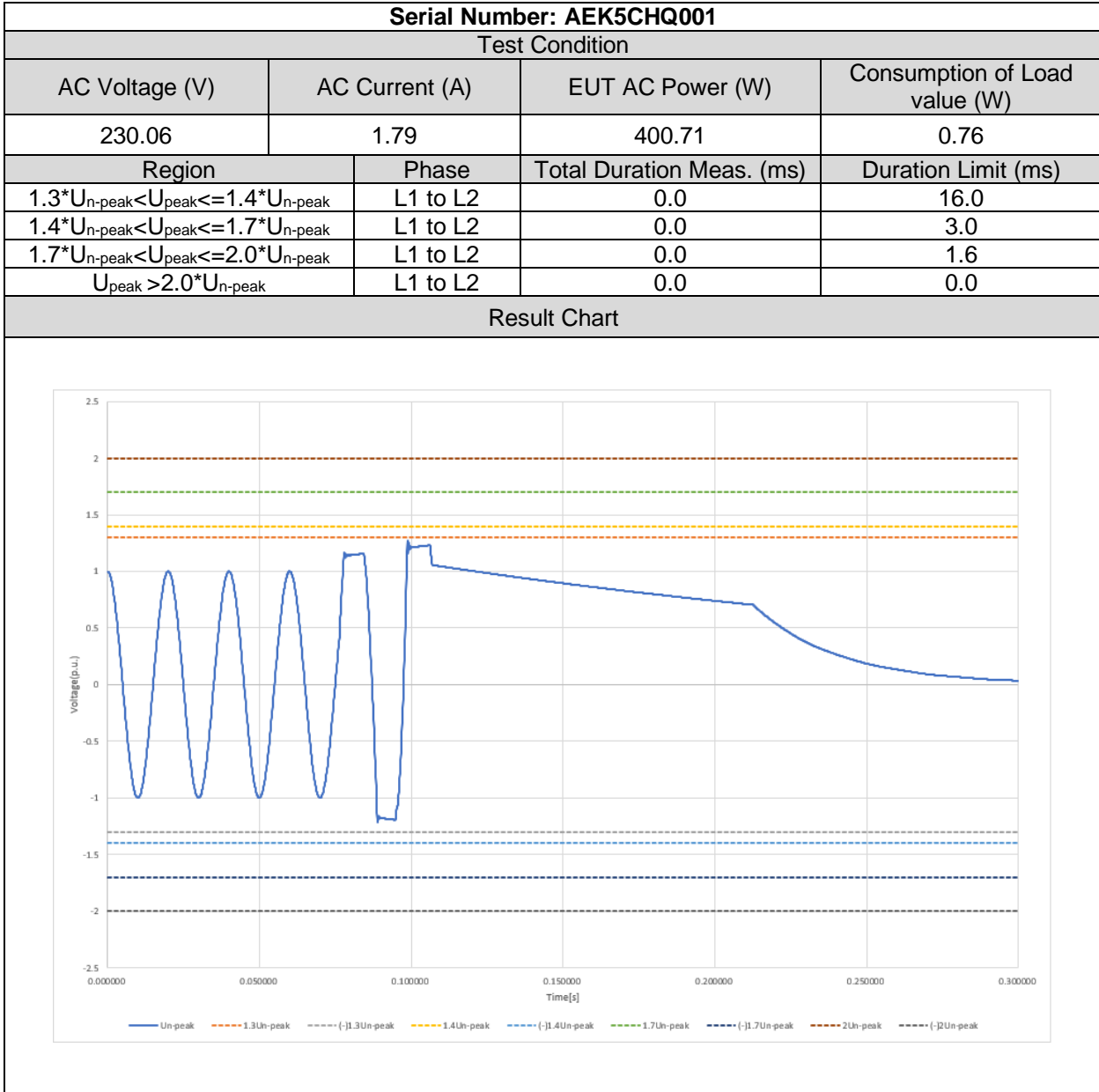
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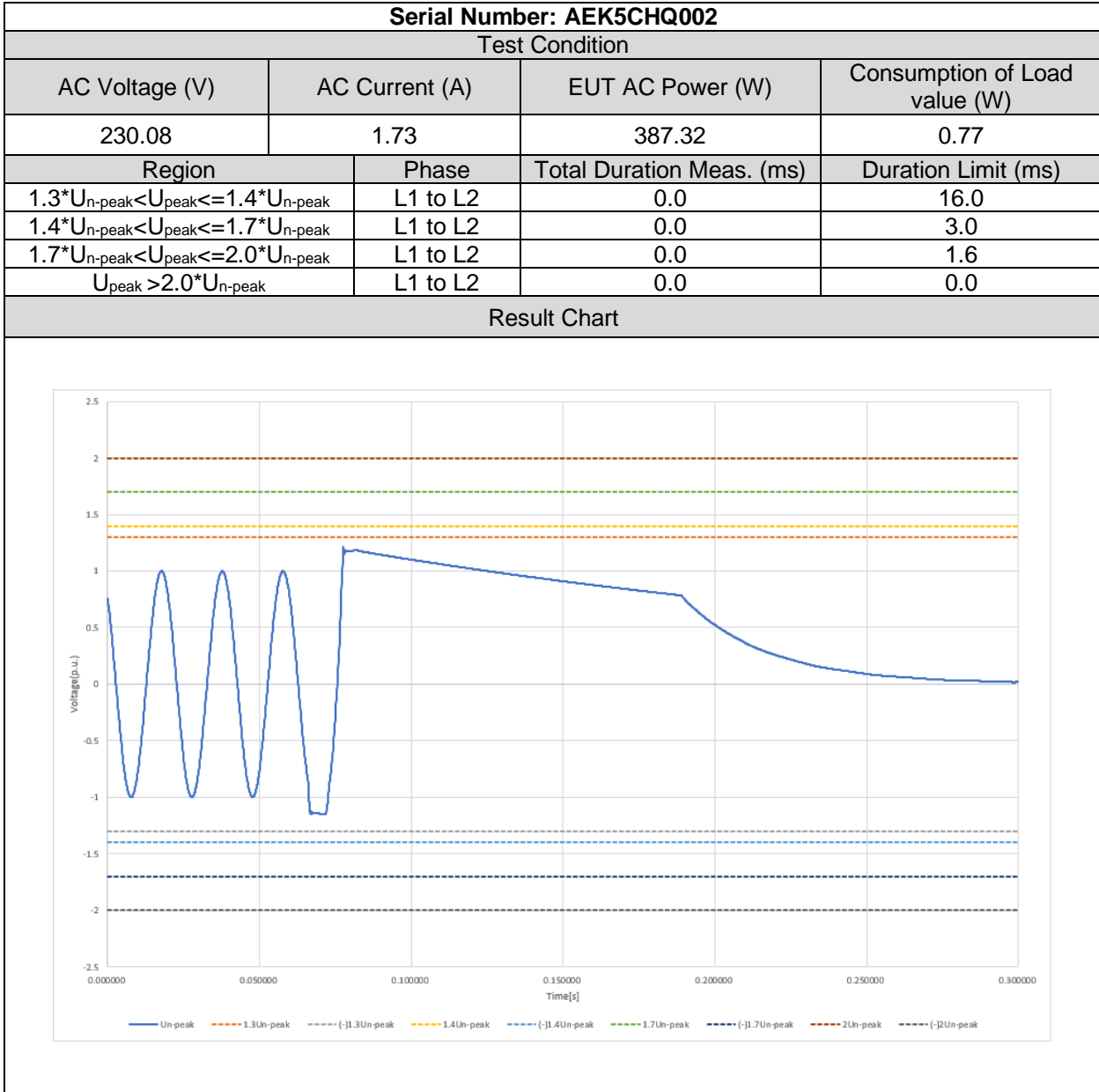
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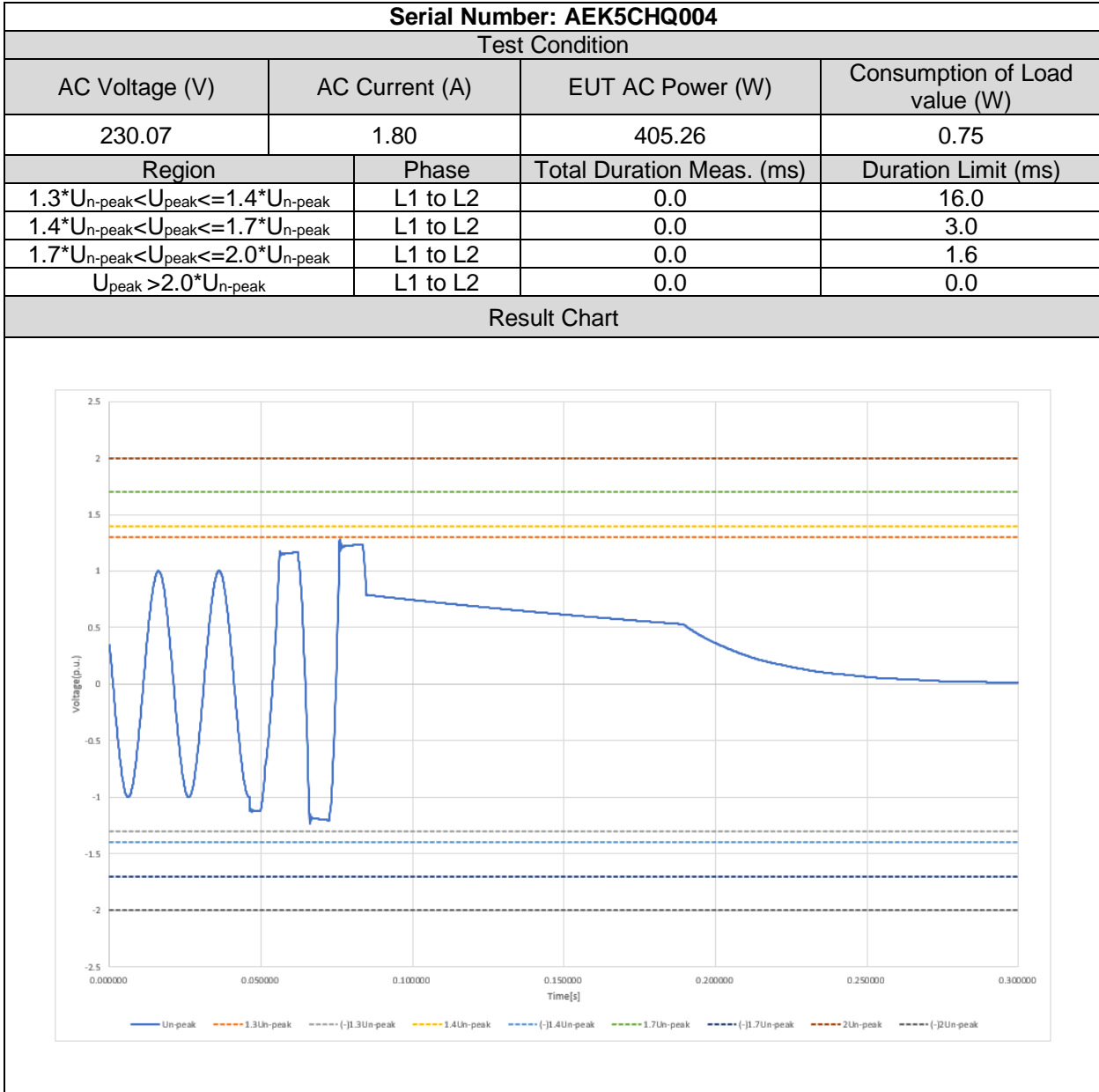
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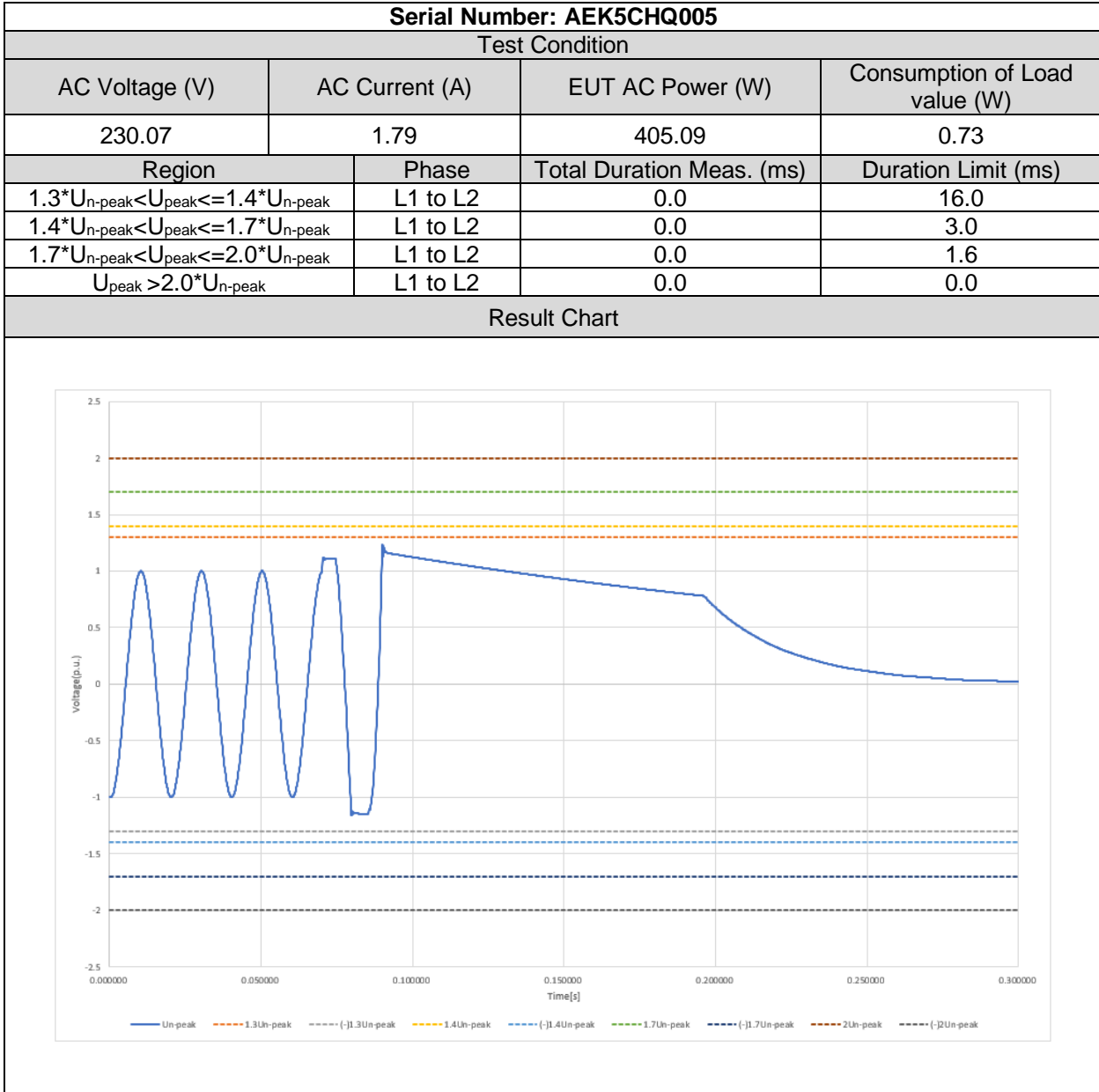
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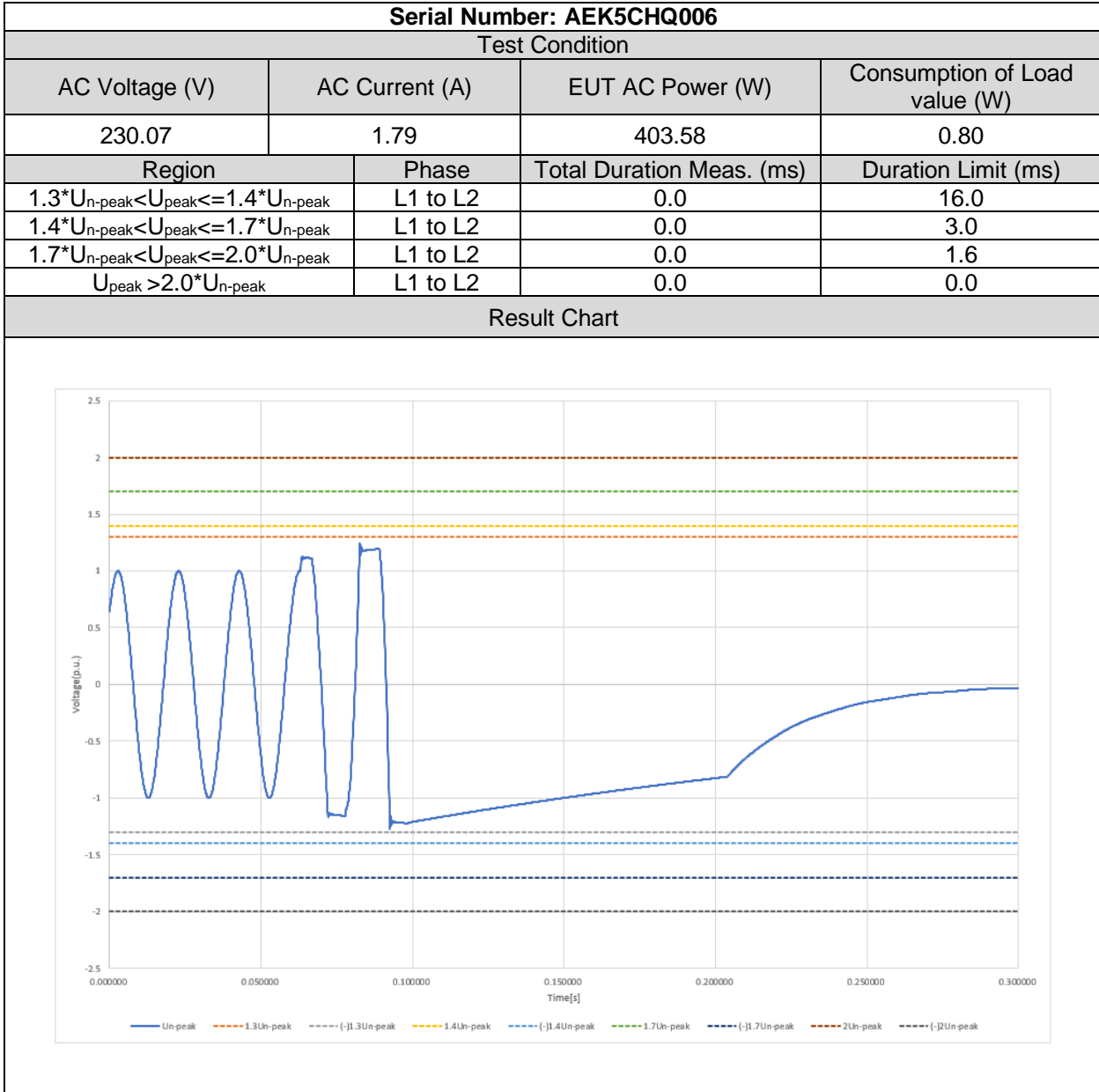
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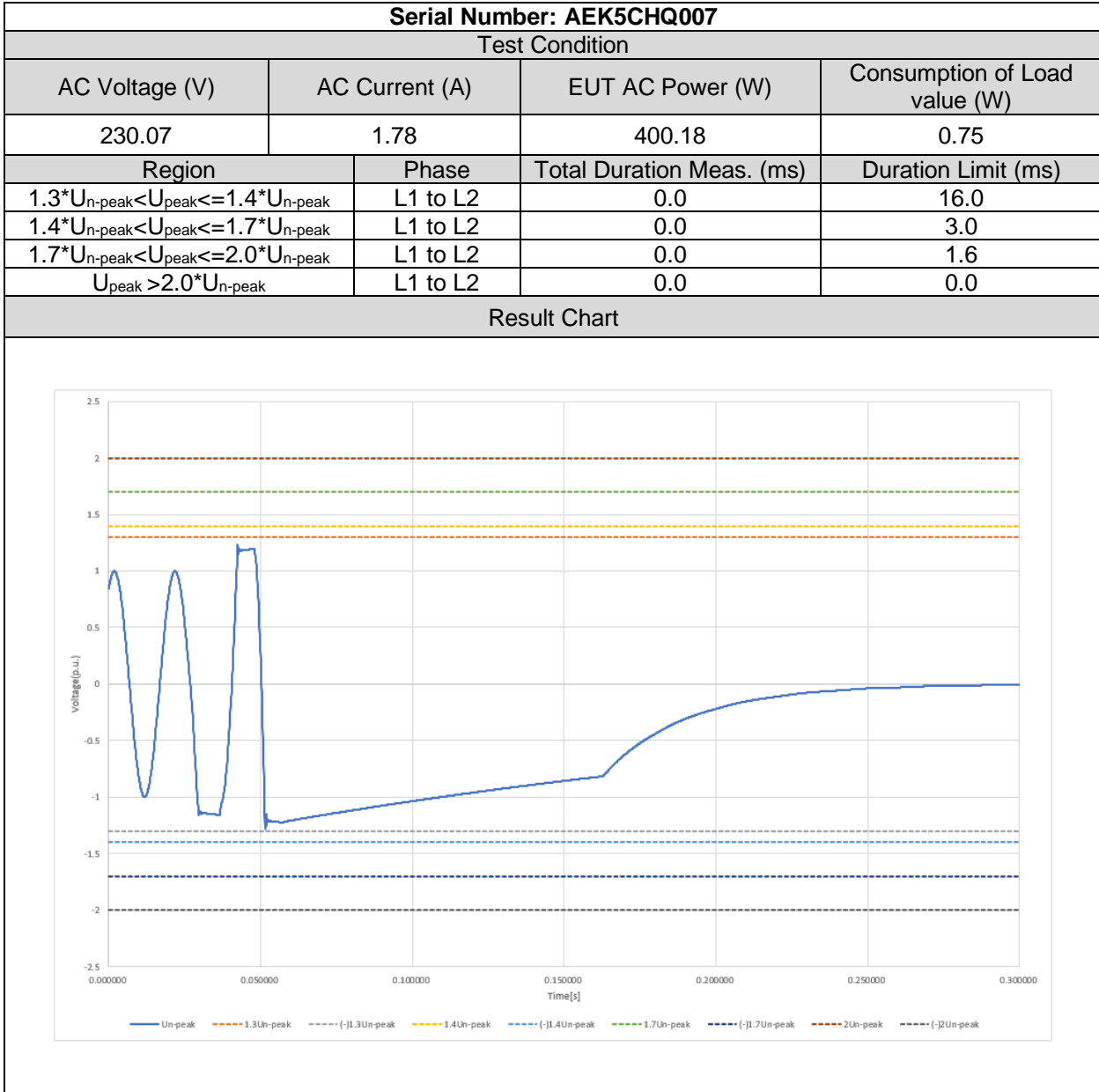
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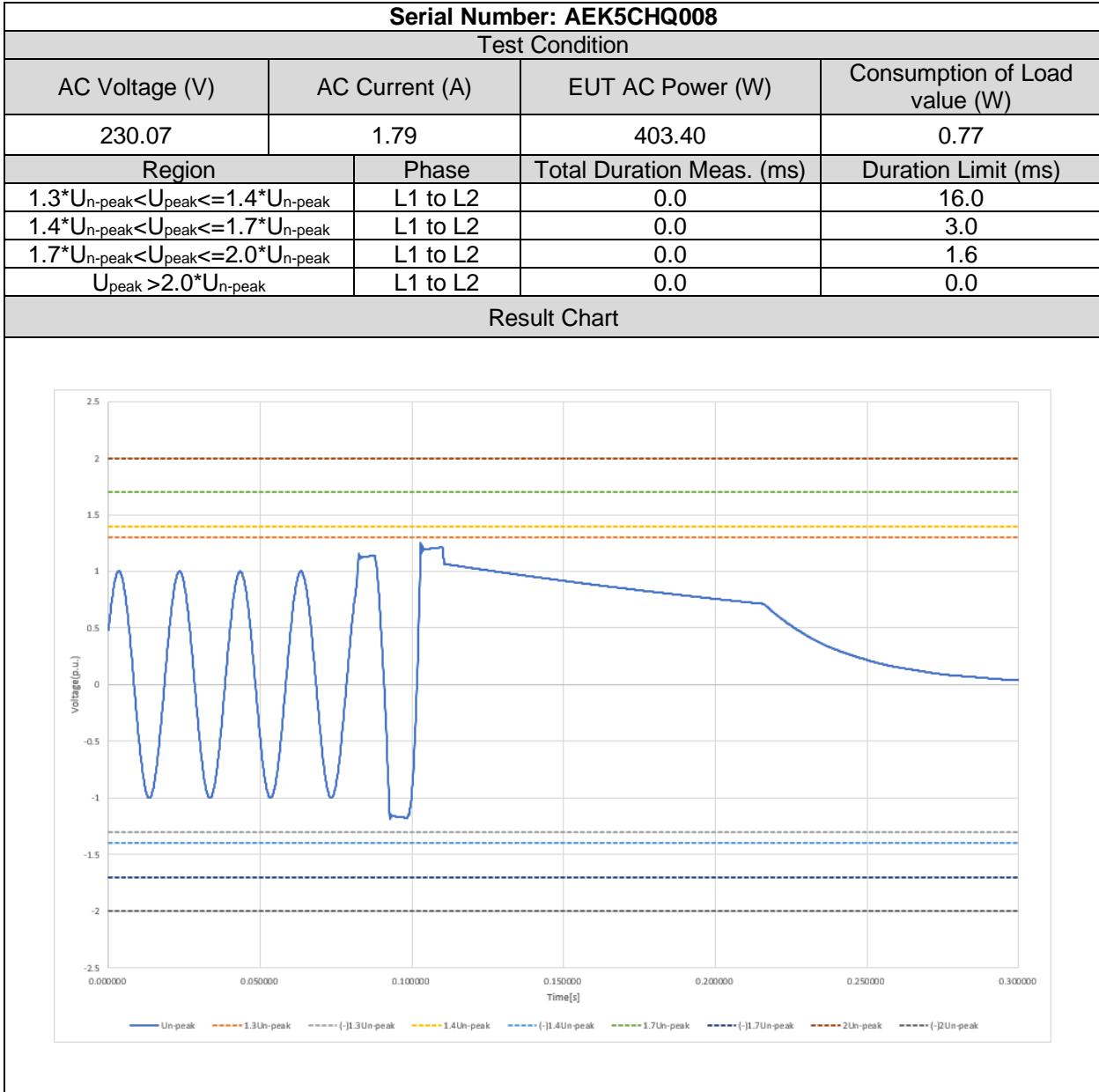
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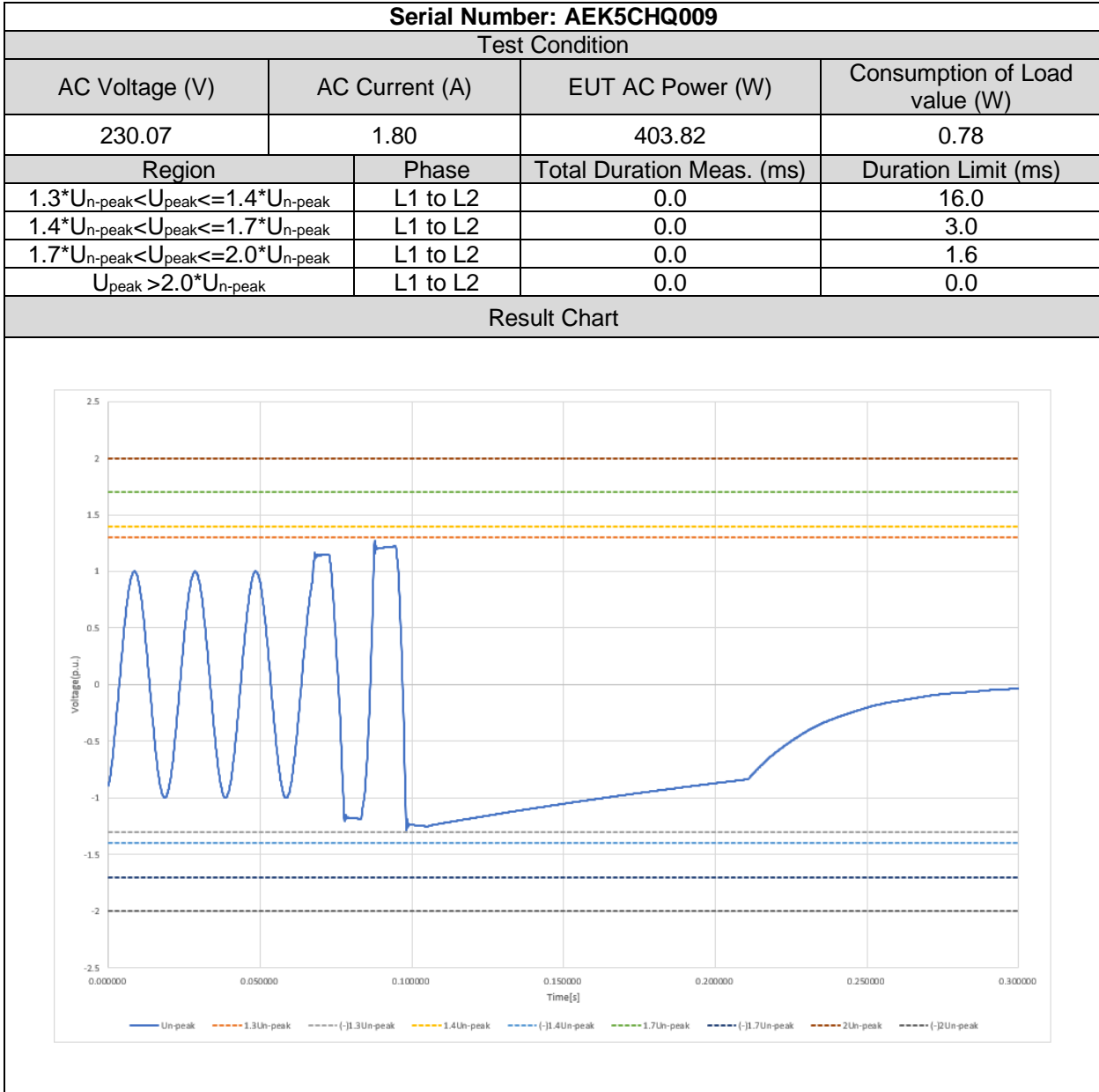
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9) Test-9: EUT output level = 33%P_{rated} & Load level = 10%P_{rated}

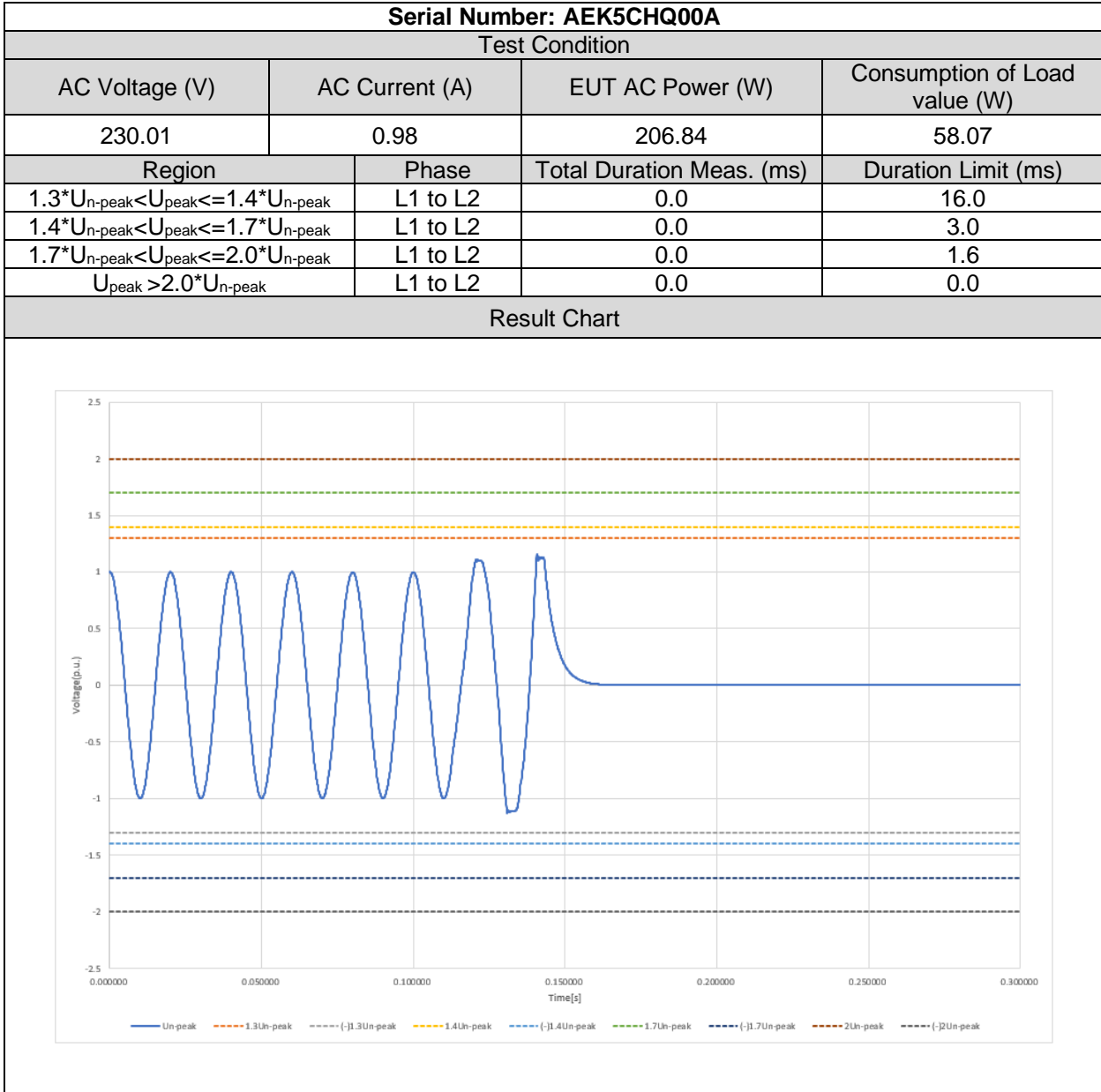
Serial Number: AEK2CB7006			
Test Condition			
AC Voltage (V)	AC Current (A)	EUT AC Power (W)	Consumption of Load value (W)
230.01	0.95	202.54	58.11
Region	Phase	Total Duration Meas. (ms)	Duration Limit (ms)
1.3*U _{n-peak} <U _{peak} <=1.4*U _{n-peak}	L1 to L2	0.0	16.0
1.4*U _{n-peak} <U _{peak} <=1.7*U _{n-peak}	L1 to L2	0.0	3.0
1.7*U _{n-peak} <U _{peak} <=2.0*U _{n-peak}	L1 to L2	0.0	1.6
U _{peak} >2.0*U _{n-peak}	L1 to L2	0.0	0.0
Result Chart			



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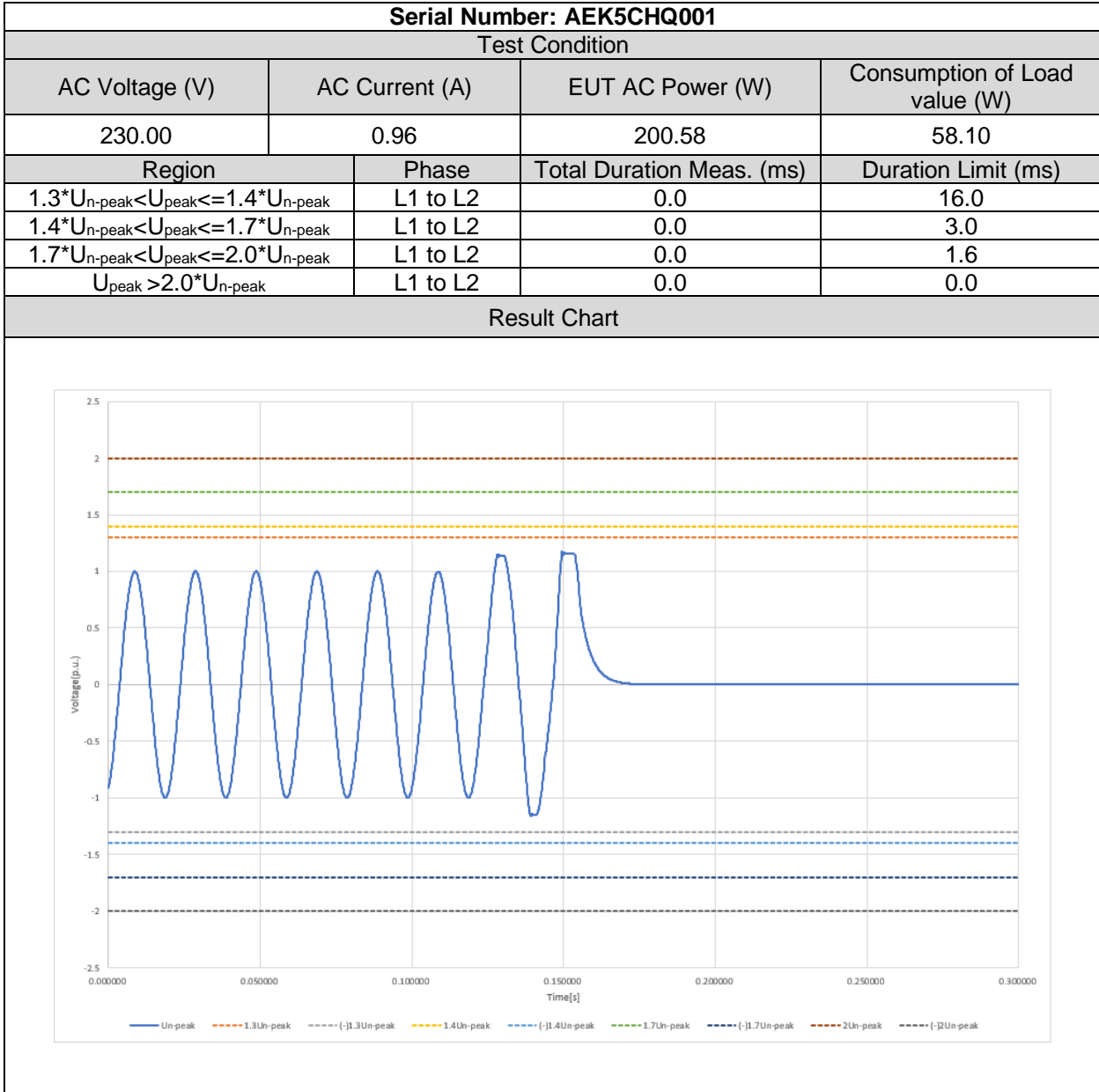
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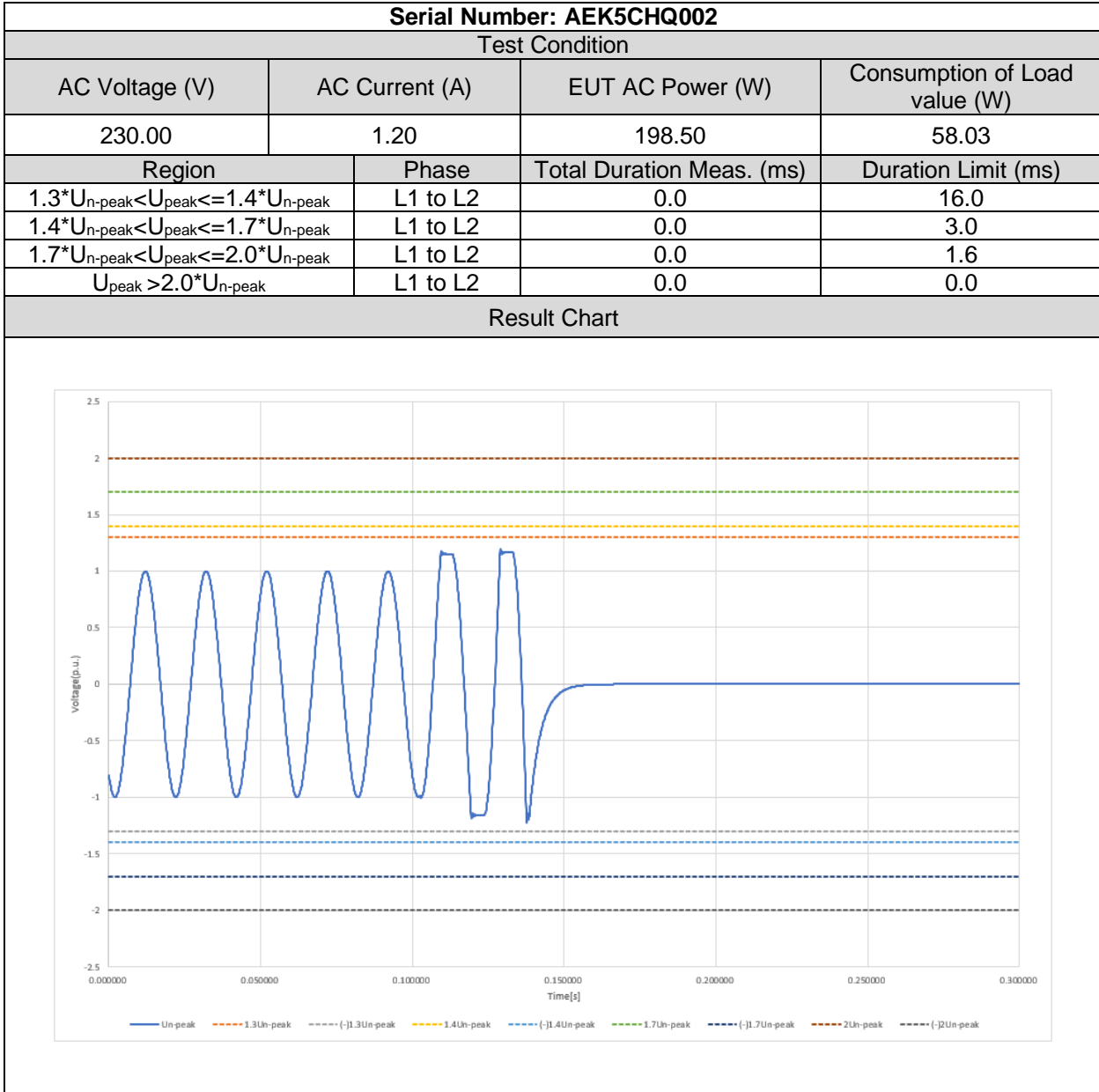
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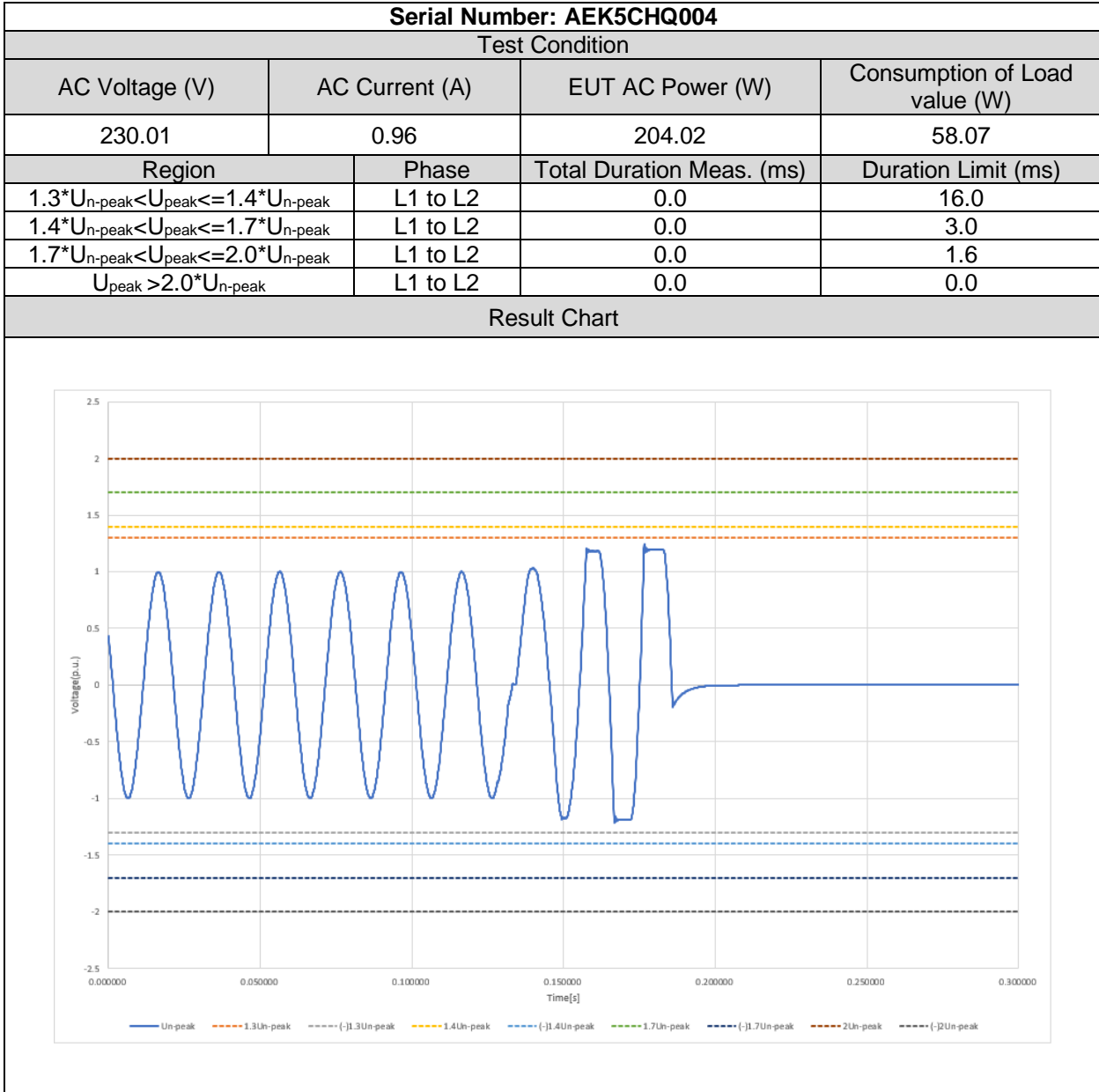
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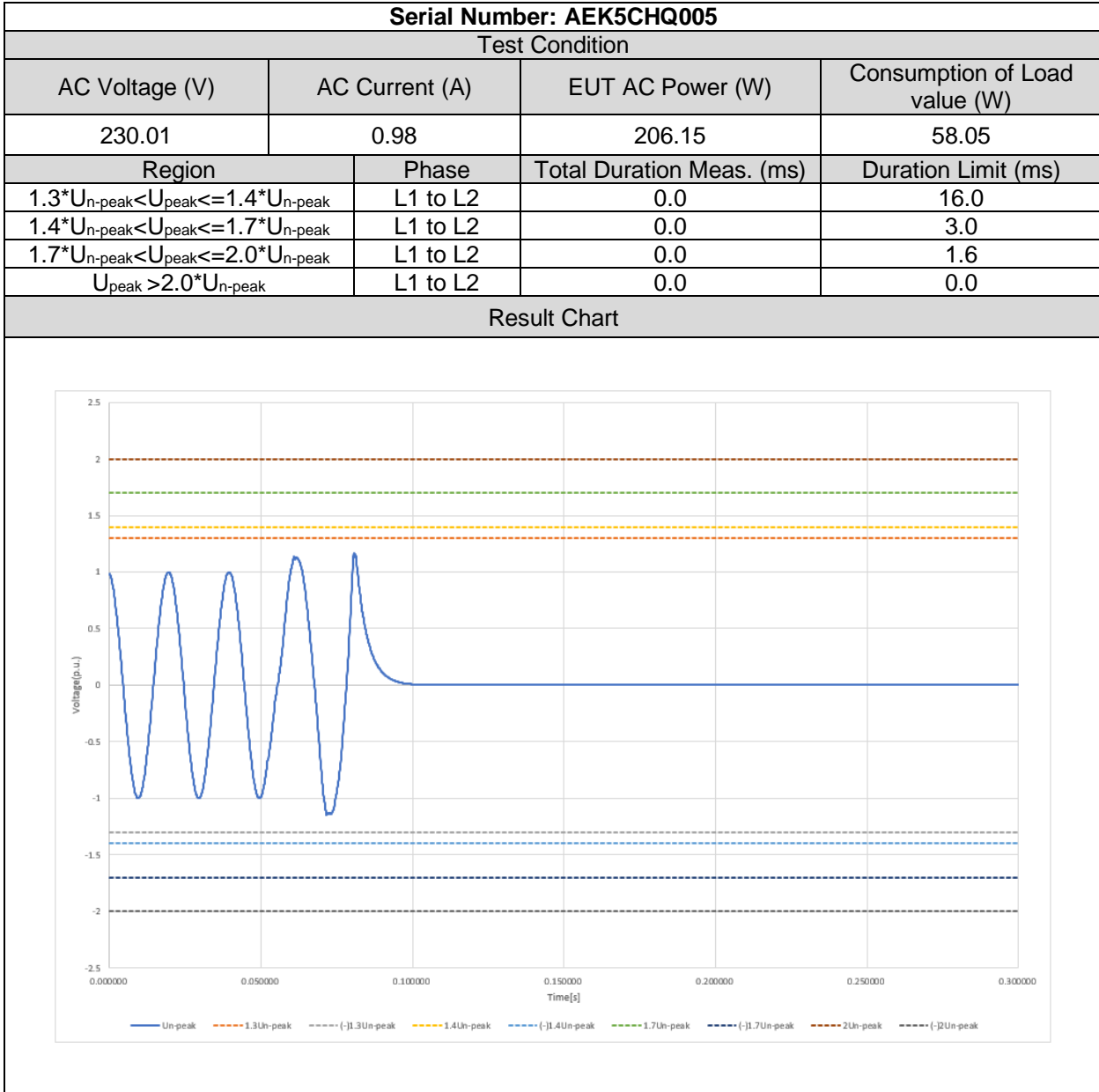
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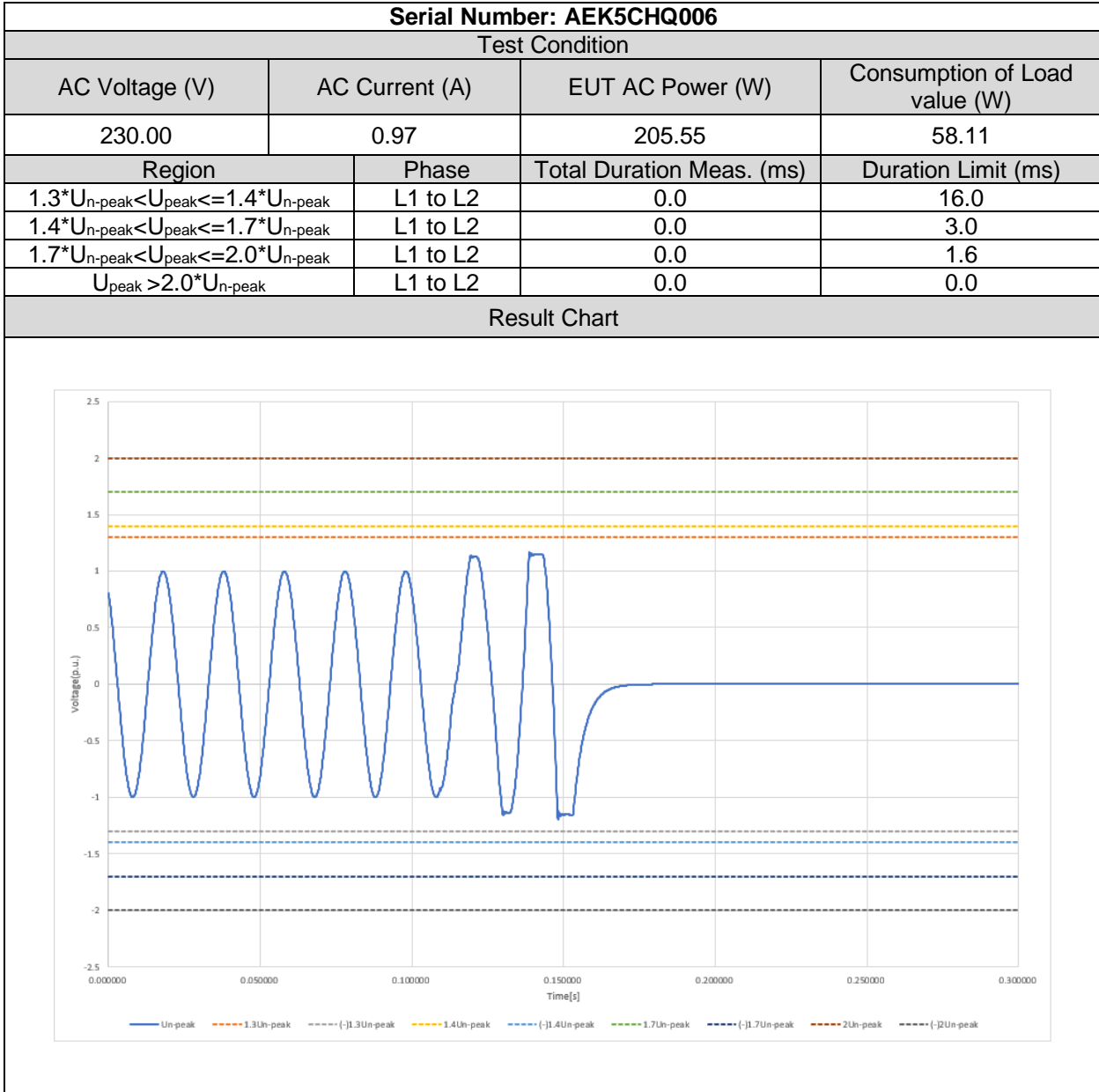
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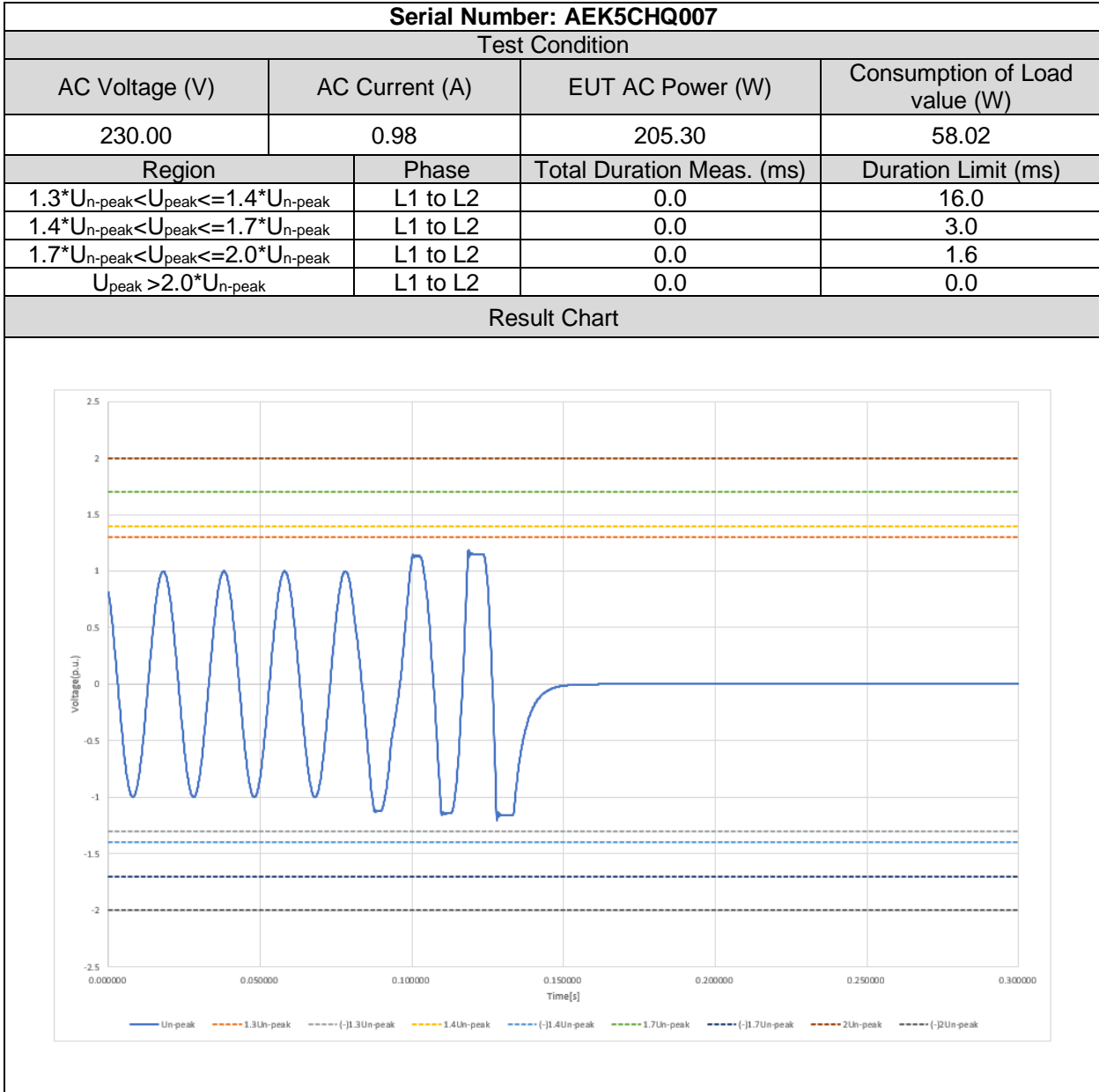
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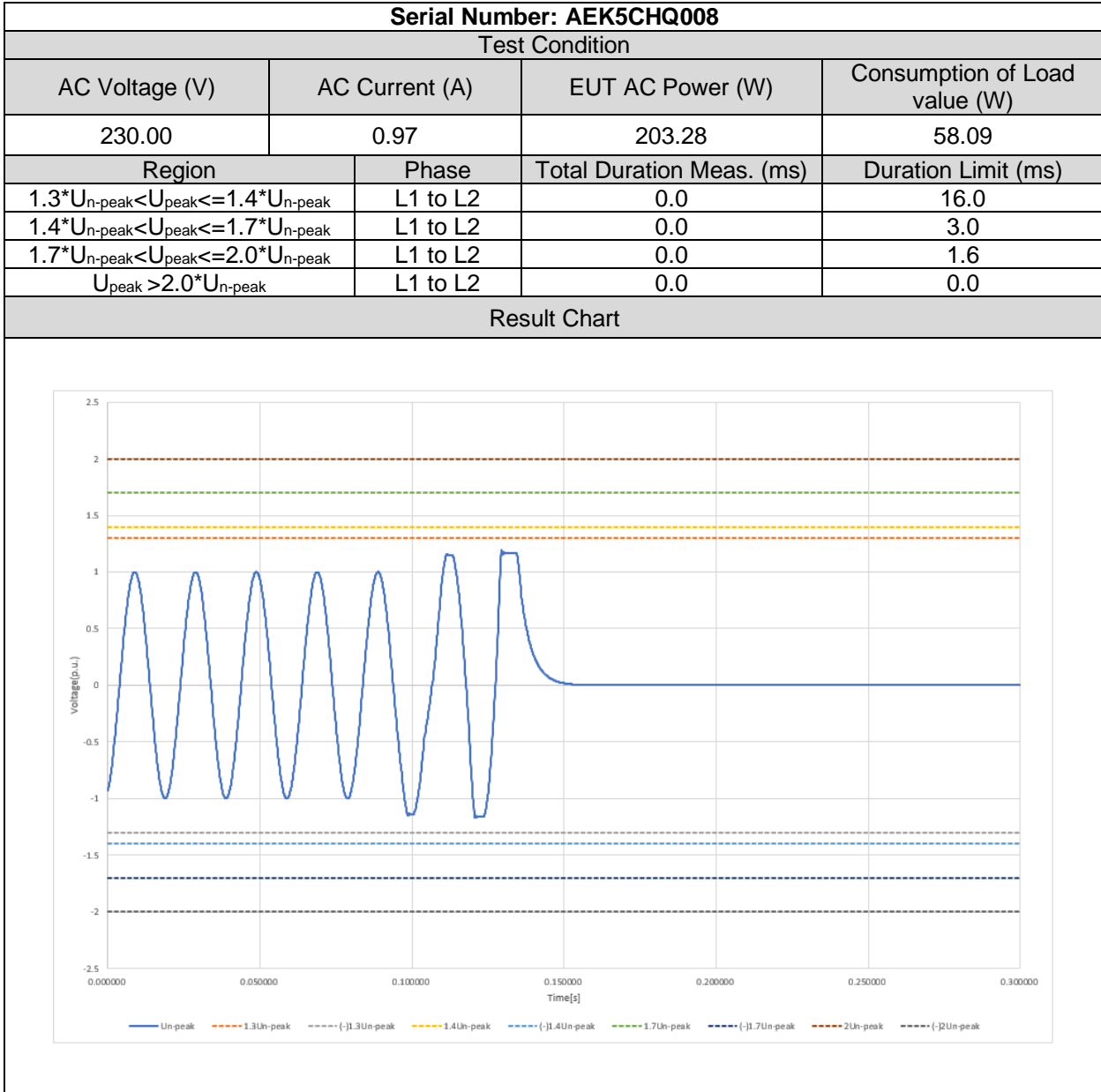
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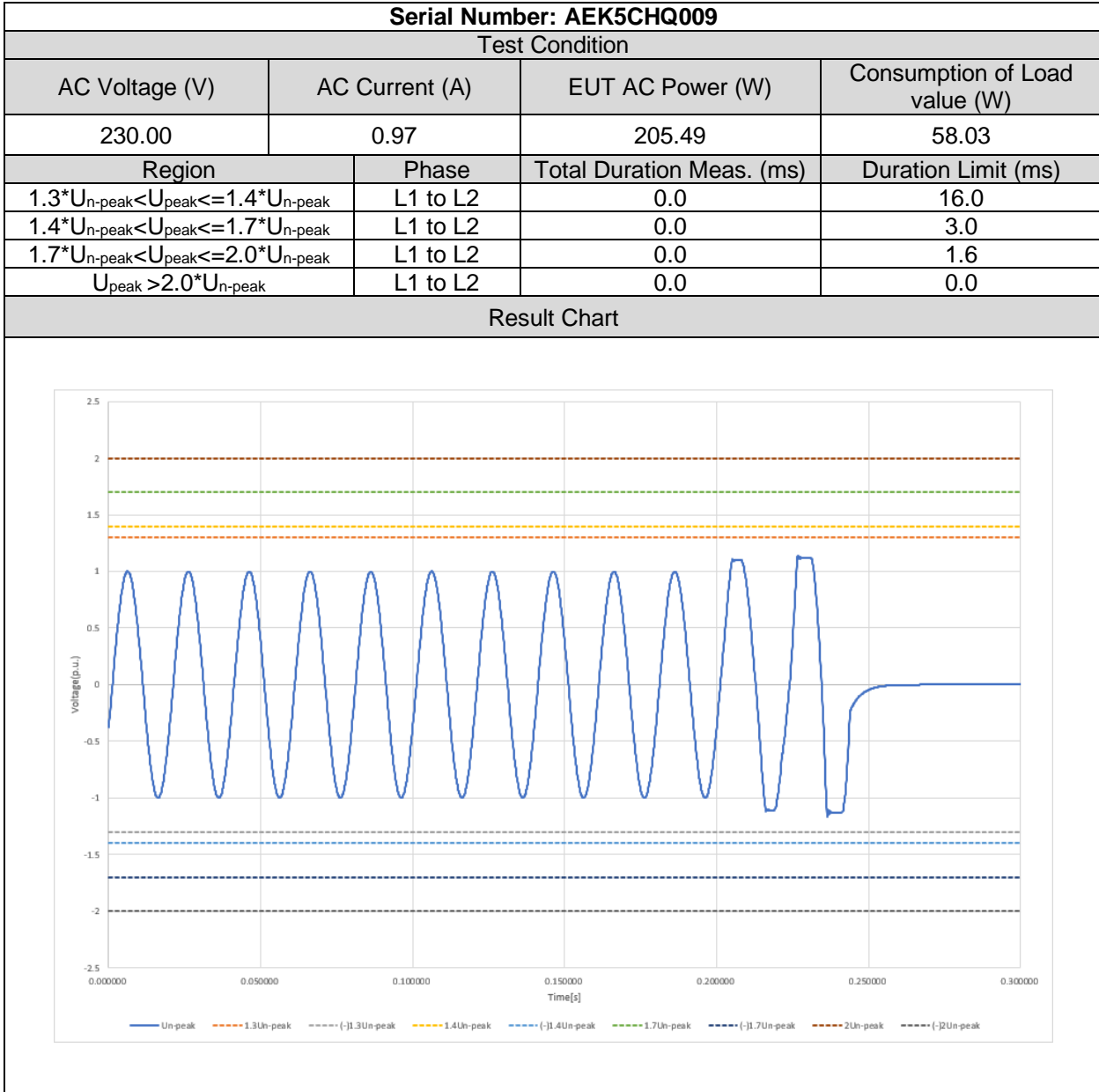
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10) Test-10: EUT output level = 33%P_{rated} & Load level = 0%P_{rated}

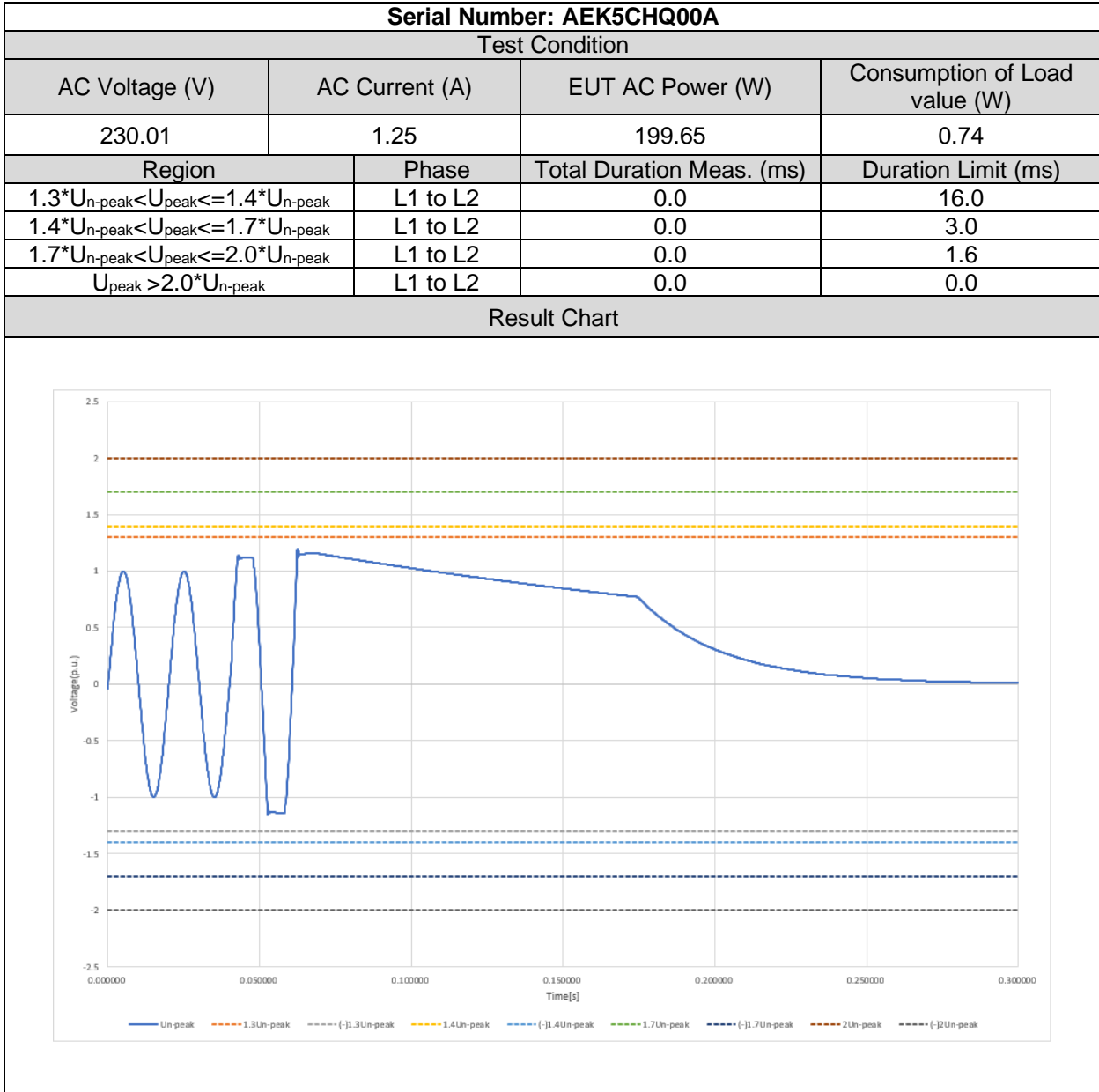
Serial Number: AEK2CB7006			
Test Condition			
AC Voltage (V)	AC Current (A)	EUT AC Power (W)	Consumption of Load value (W)
230.02	1.23	201.73	0.77
Region	Phase	Total Duration Meas. (ms)	Duration Limit (ms)
$1.3 \cdot U_{n-peak} < U_{peak} \leq 1.4 \cdot U_{n-peak}$	L1 to L2	0.0	16.0
$1.4 \cdot U_{n-peak} < U_{peak} \leq 1.7 \cdot U_{n-peak}$	L1 to L2	0.0	3.0
$1.7 \cdot U_{n-peak} < U_{peak} \leq 2.0 \cdot U_{n-peak}$	L1 to L2	0.0	1.6
$U_{peak} > 2.0 \cdot U_{n-peak}$	L1 to L2	0.0	0.0
Result Chart			



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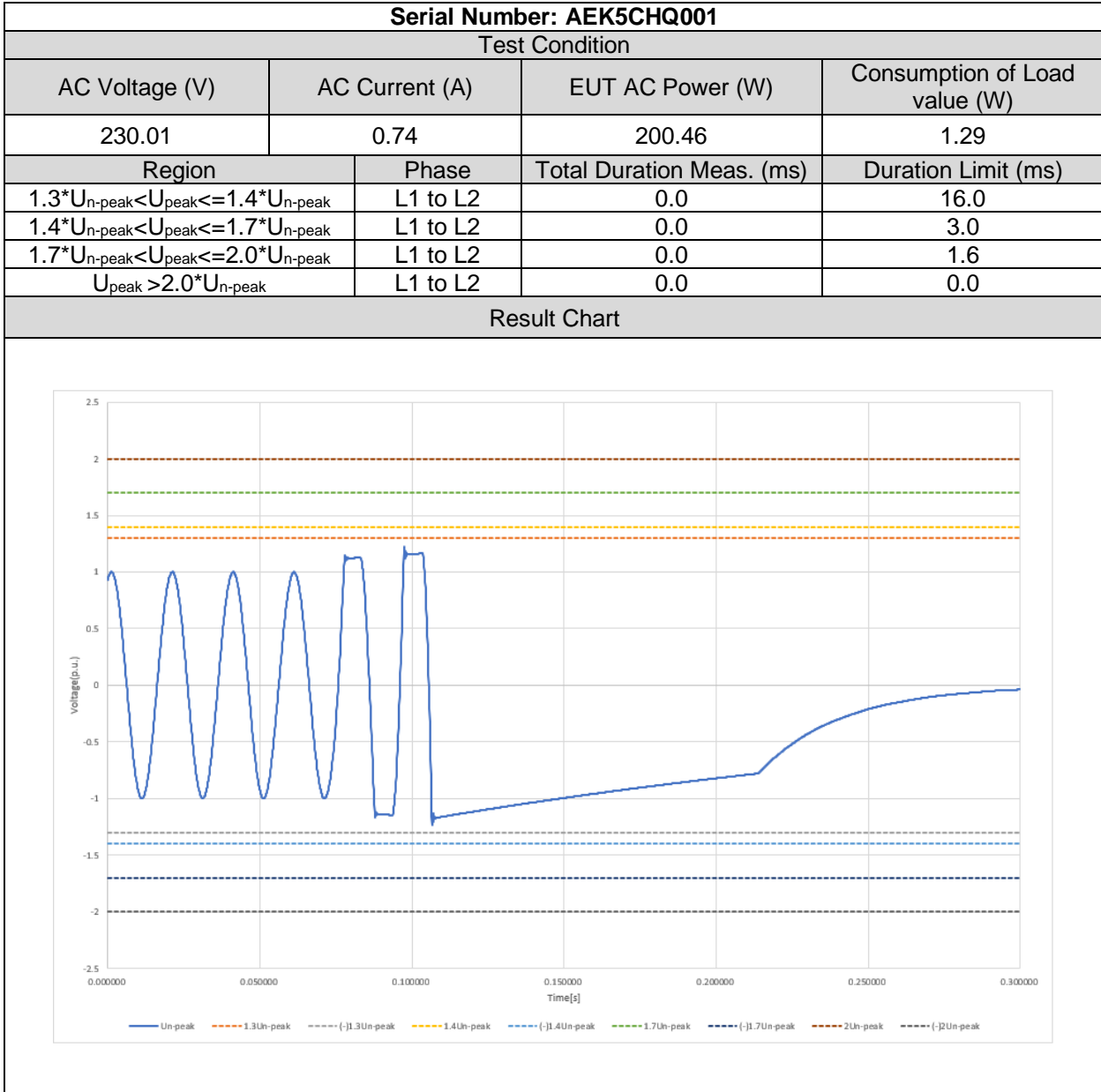
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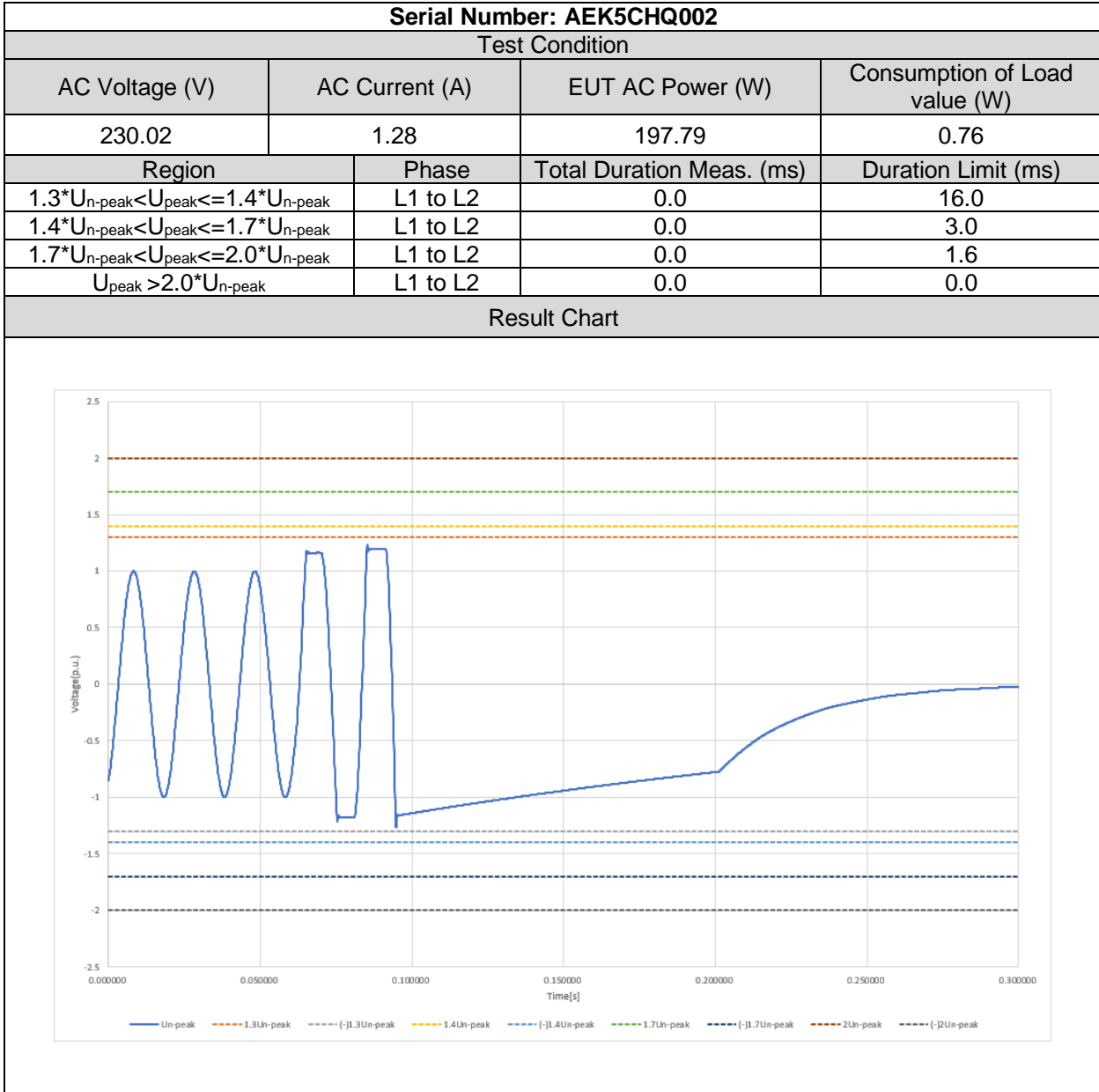
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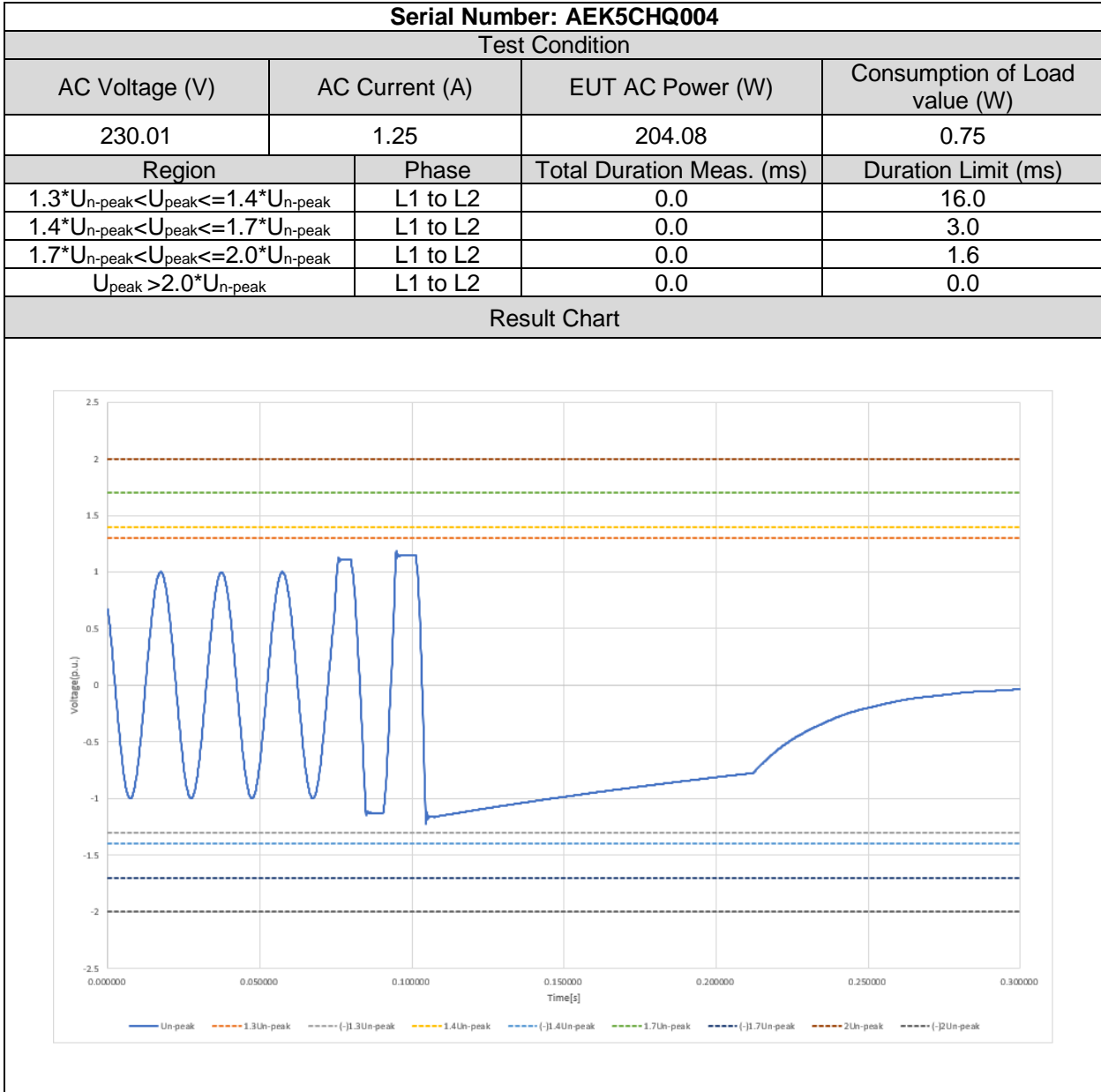
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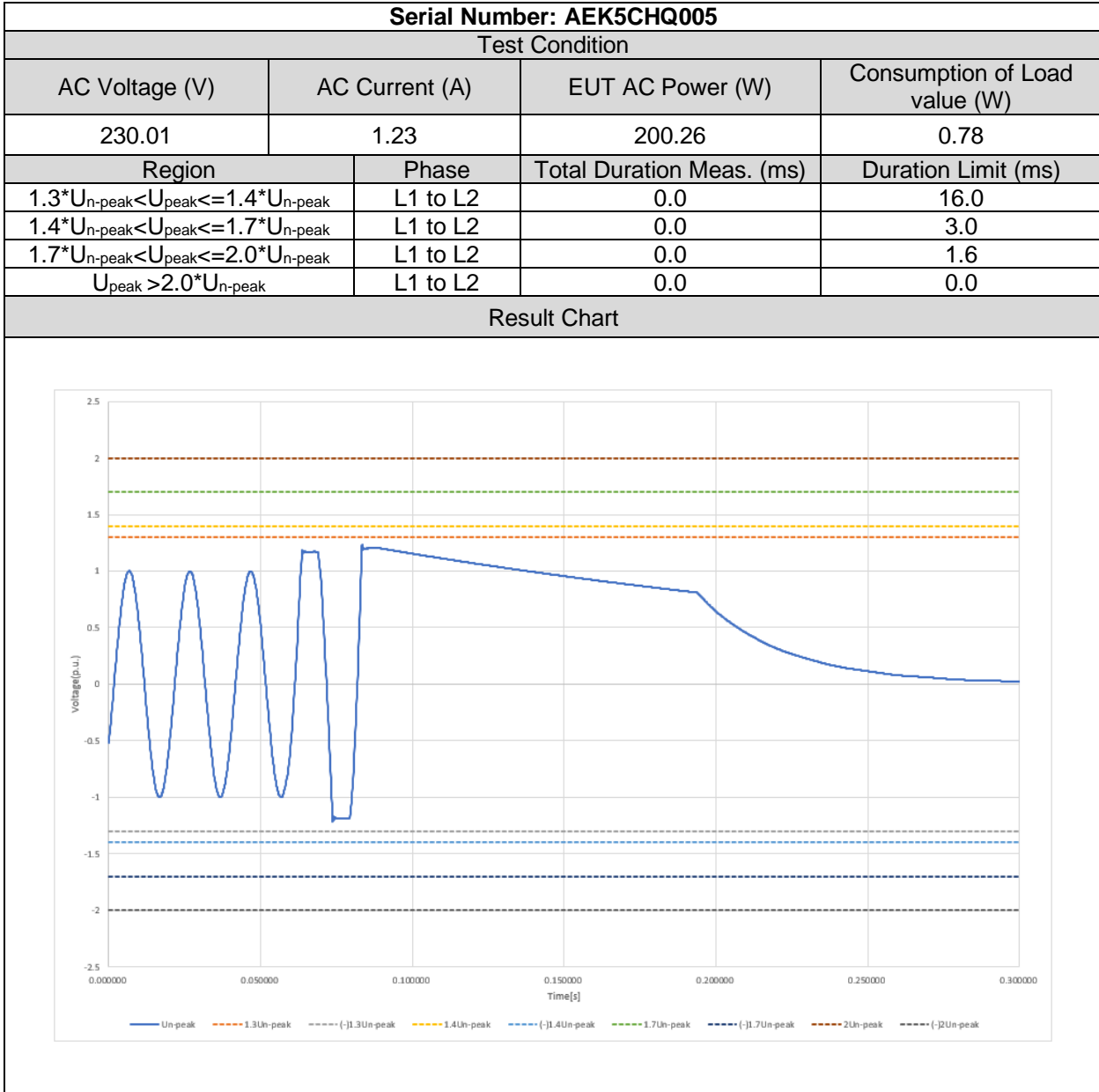
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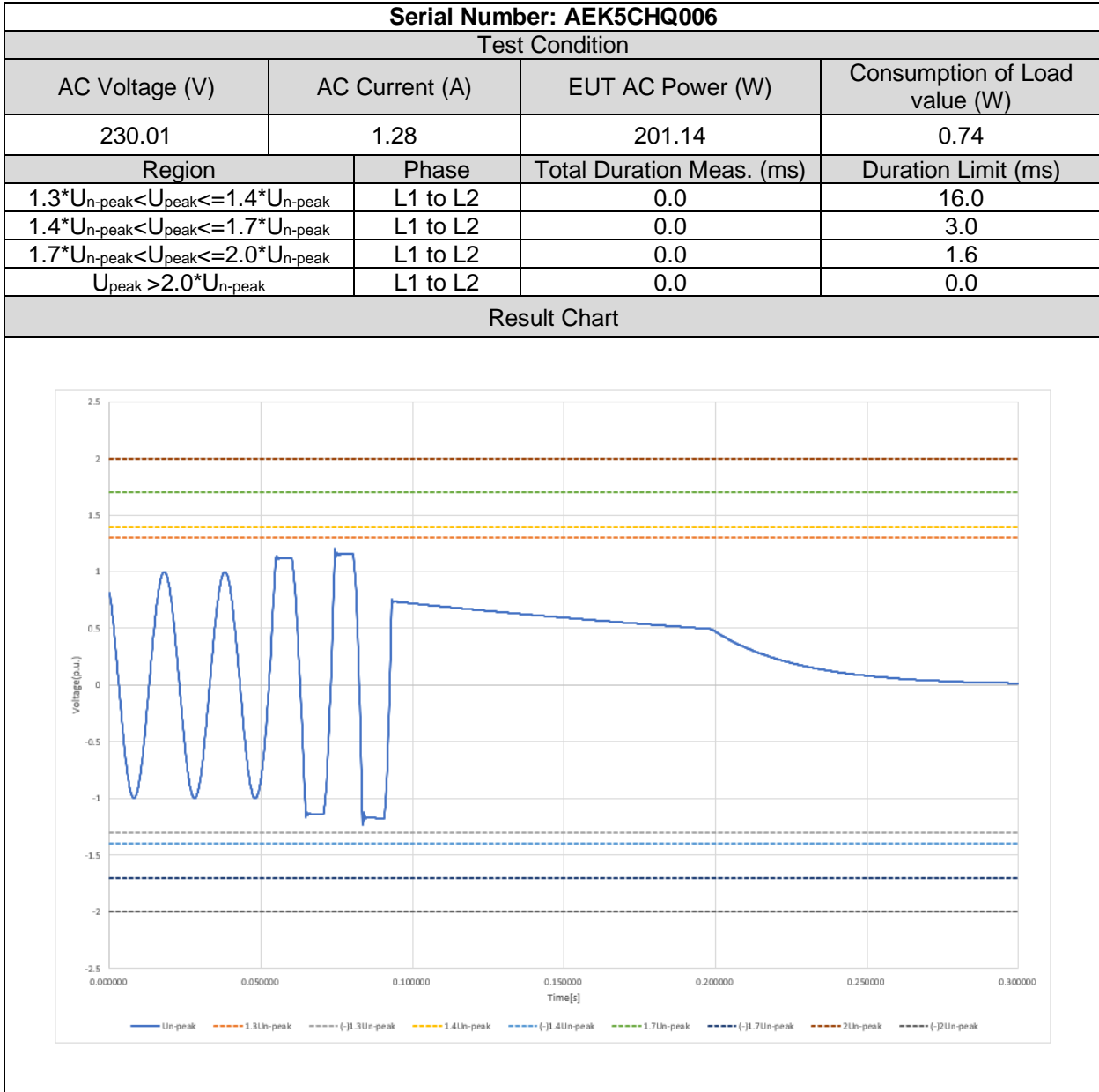
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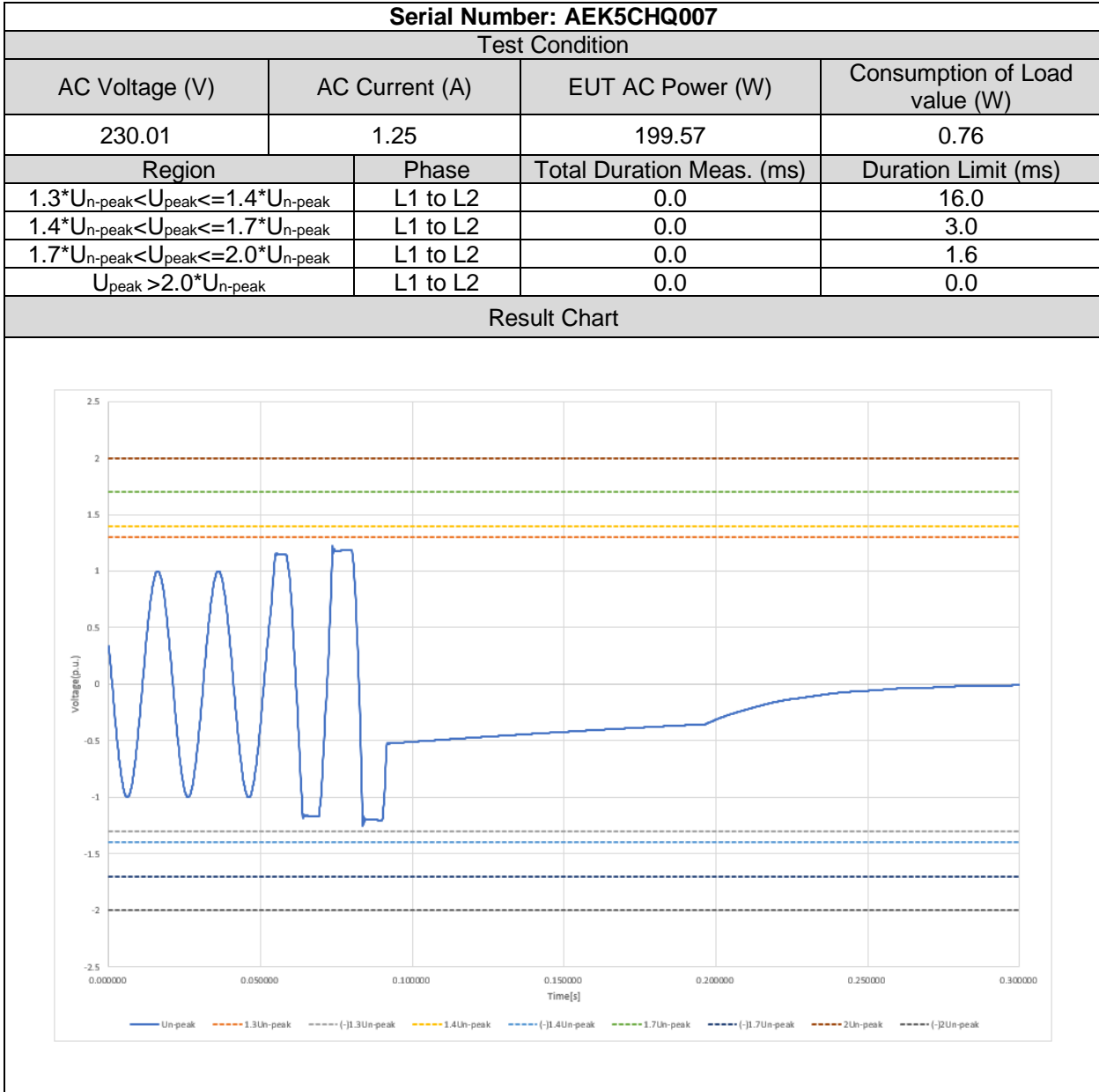
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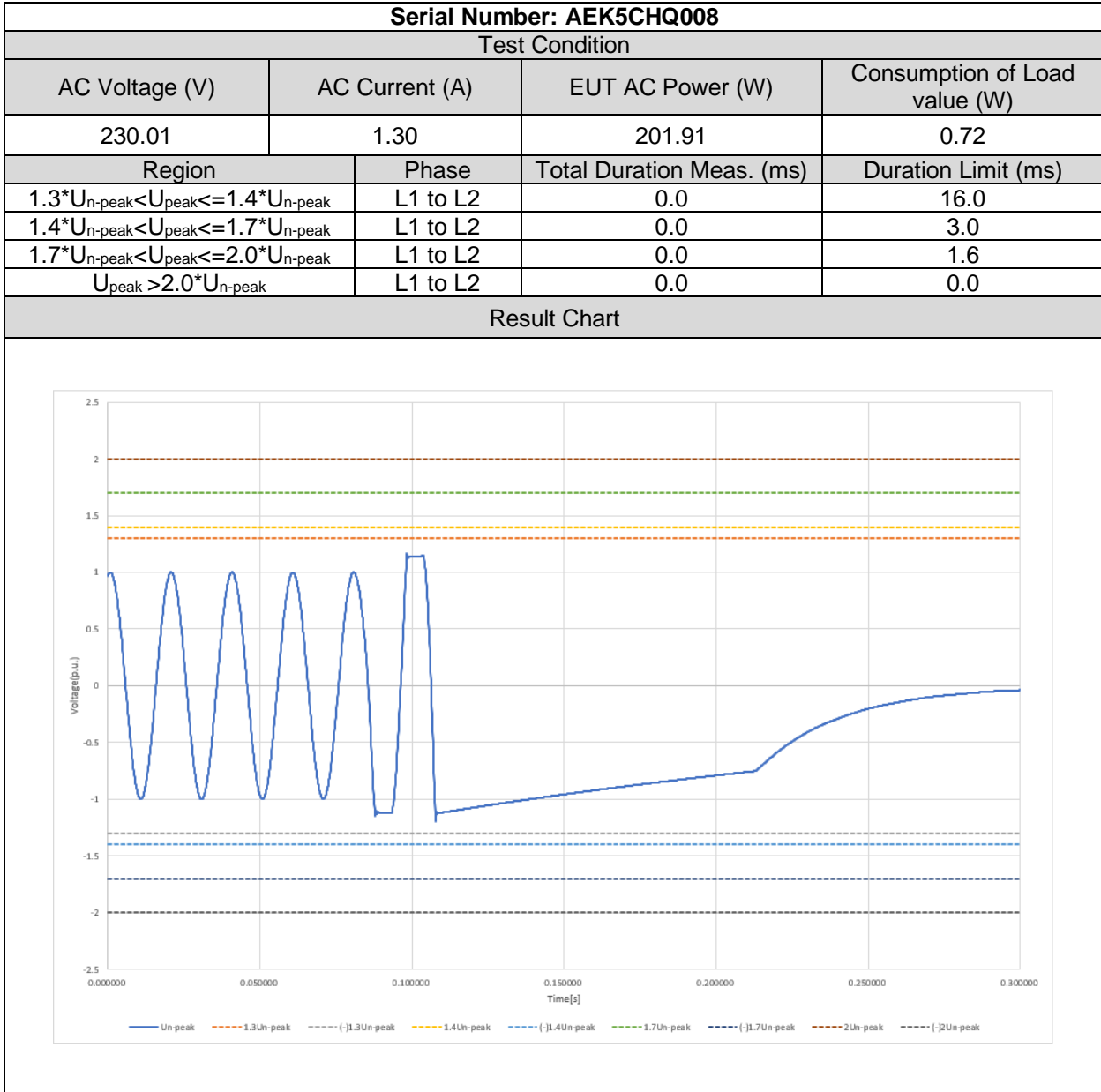
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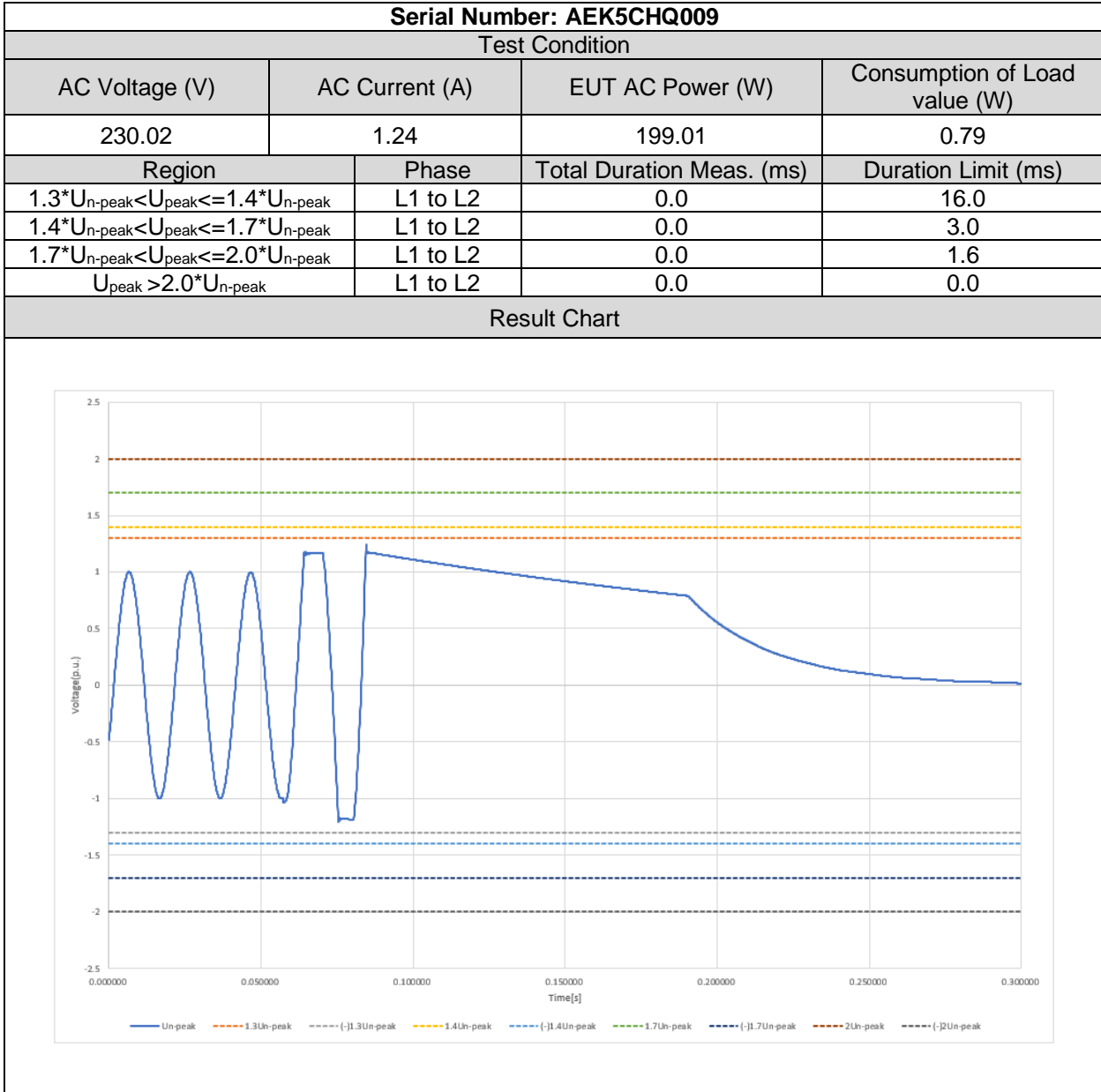
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MEASUREMENT UNCERTAINTY:

Associated uncertainties through measurements showed in this report are the maximum allowable uncertainties.

Magnitude	Uncertainty
Voltage measurement	±1.5 %
Current measurement	±2.0 %
Frequency measurement	±0.2 %
Time measurement	±0.2 %
Power measurement	±0.5 %
Phase Angle	±1°
Temperature	±3° C

Note1: Measurements uncertainties showed in this table are maximum allowable uncertainties. The measurement uncertainties associated with other parameters measured during the tests are in the laboratory at disposal of the petitioner.
 Note2: Where the standard requires lower uncertainties that those in this table. Most restrictive uncertainty has been considered.

LIST OF TEST EQUIPMENT

No.	Equipment Name	MARK/Model No.	Equipment No.	Equipment calibration due date
1	AC source	ACTIONPOWER / PRE1530M	M3032C0037	2024-06-17
2	DC source	Topcon Quadro / TCP.32.1000.400.S.H	1838CC296	2024-06-17
3	Power analyzer	DEWETRON / 1820-POWR-4	C220704005	2024-06-18
4	Current clamp	OLEM / IT700-S	1170800040	2024-06-18
5	Current clamp	OLEM / IT700-S	8172650044	2024-06-18
6	Current clamp	OLEM / IT700-S	1170800035	2024-06-18
7	Temperature and Humidity meter	deli / -	WSDJ-014	2024-06-19
8	True RMS Multimeter	Fluke / 15B	GZE012-43	2023-11-10



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Appendix Photos:



Front view of PV inverter



Back view of PV inverter



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Left view of PV inverter



Right view of PV inverter



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Top view of PV inverter



Bottom view of PV inverter

*****End of report*****



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Test report

Report No.: GZES230801495902

Date: 2023-08-15

The following sample was submitted and identified on behalf of the client as:

Applicant: Shenzhen Growatt New Energy Co., Ltd.
4-13/F, Building A, Sino-German(Europe) Industrial Park, Hangcheng Ave,
Bao'an District, Shenzhen, China

Testing location/address: SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
198 Kezhu Road, Science City, Economic & Technology Development Area,
Guangzhou, Guangdong, China

The standards/method: Test AC disconnection protection time according to clause 6.5.2 of VDE-AR-N
4105:2018-11

Test item description: PV Grid Inverter

Trade Mark: GROWATT

Model/Type for test: MIC 600TL-X

Variant Models N/A

Ratings: DC input: 50-500V, Max. 13A
AC output: L/N/PE 230Vac, 50Hz, Max. 2.9A, 600VA

Sample receipt date: 2023-08-09

Testing date: 2023-08-10 to 2023-08-11

Test result: Pass

Remark: Throughout this report a point is used as the decimal separator.
When determining for test conclusion, measurement uncertainty of tests has
been considered.

Colin Chen

Colin Chen
Project Engineer



Roger Hu
Technical Reviewer



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LIST OF INSTALLATION COMPONENTS

CHARACTERISTICS OF THE TESTED SAMPLE (PV INVERTER)

Type of appliance:	PV Grid Inverter
Manufacturer / Distributor / Installer:	Shenzhen Growatt New Energy Co., Ltd.
Brand:	GROWATT
Model/ Type:	MIC 600TL-X
Series No.:	AEK2CB7006, AEK5CHQ00A, AEK5CHQ001, AEK5CHQ002, AEK5CHQ004, AEK5CHQ005, AEK5CHQ006, AEK5CHQ007, AEK5CHQ008, AEK5CHQ009
Software revision	GH1.0
Nominal characteristics:	DC input: 50-500V, Max. 13A AC output: L/N/PE 230Vac, 50Hz, Max. 2.9A, 600VA



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TEST DESCRIPTION:

The duration set-point “< 100ms” for the protection relay setting value is based on the assumption that the maximum response time for NS protection + interface switch is also 100ms. This results in a maximum “total disconnection time” of 200ms. If the response time of the components is < 100ms (e.g. 50ms), then this allows for a longer period during which to perform the measurements and the evaluation of the protective function (e.g. up to 150ms). This would then result in a protection relay setting value higher than “< 100ms”, i.e. “< 150ms”. However, in that case, only the 100ms shall be visualised as the setting value at the NS protection. Nevertheless, the disconnection time of 200ms shall in no case be exceeded.

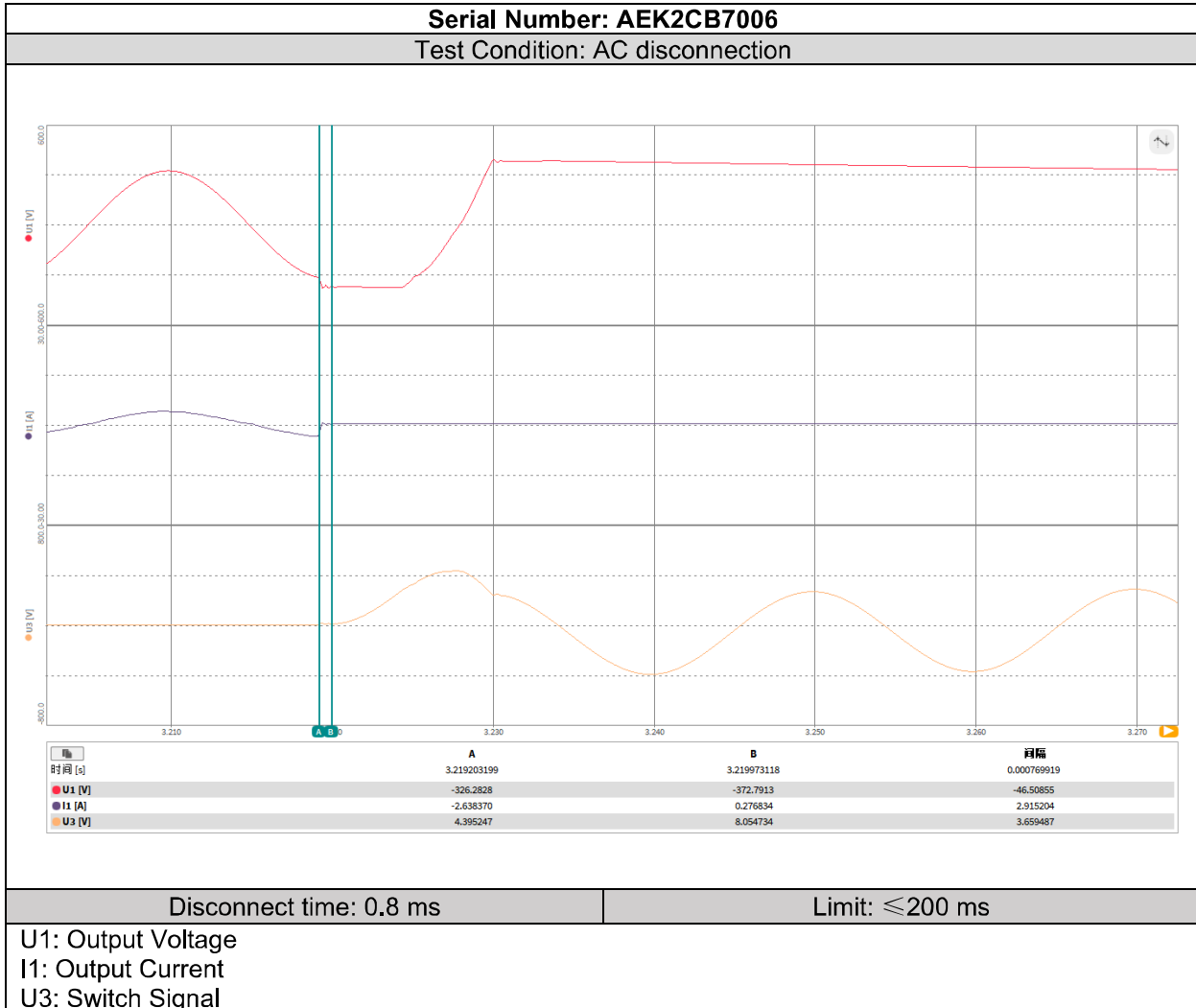
Measurement equipment settings used for this test are shown in the following table:

Measurement device	Date of measurement	Recording	Sampling frequency
1820-POWR-4	2023/08/10 to 2023/08/11	100 ms	10 kHz



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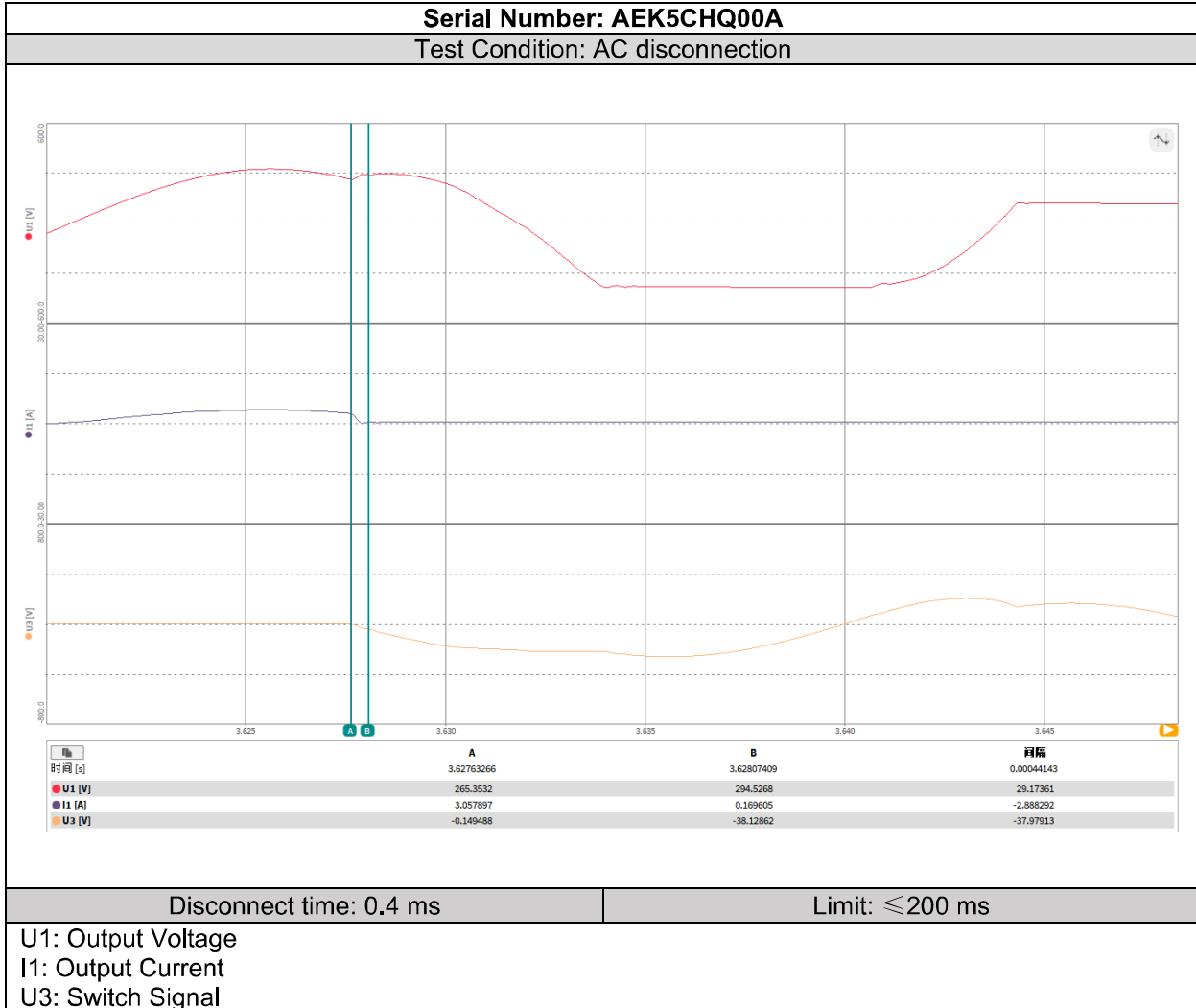
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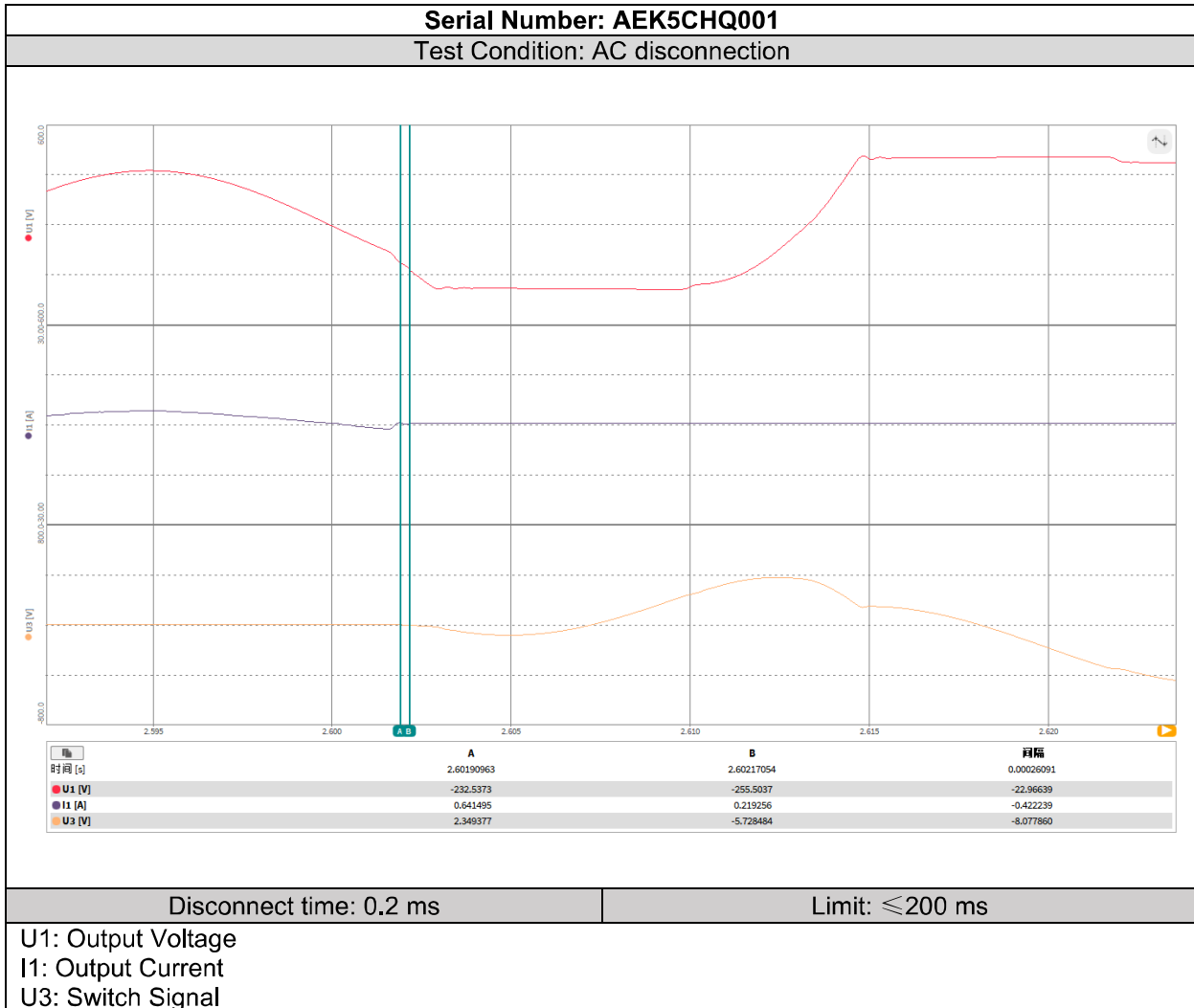
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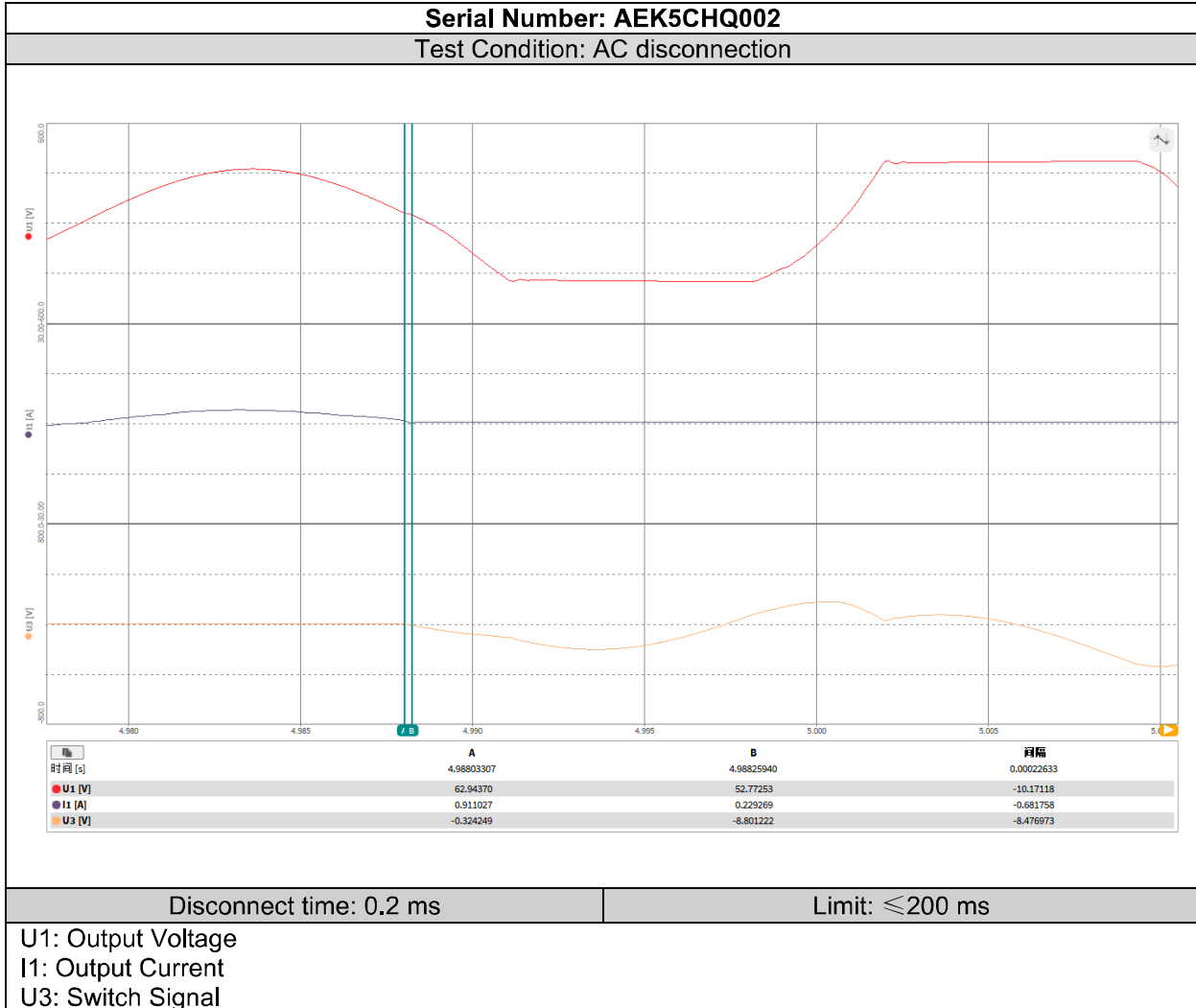
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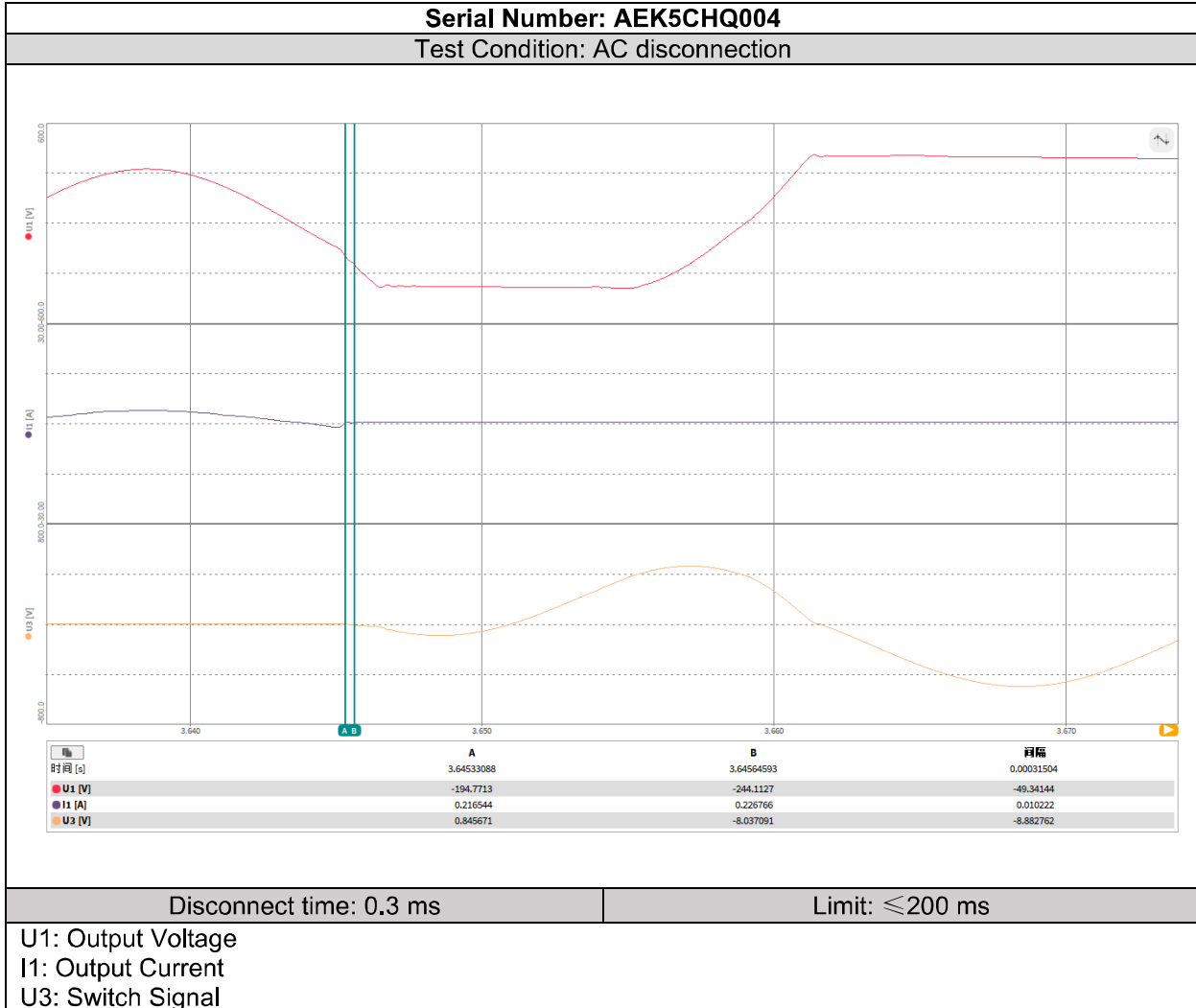
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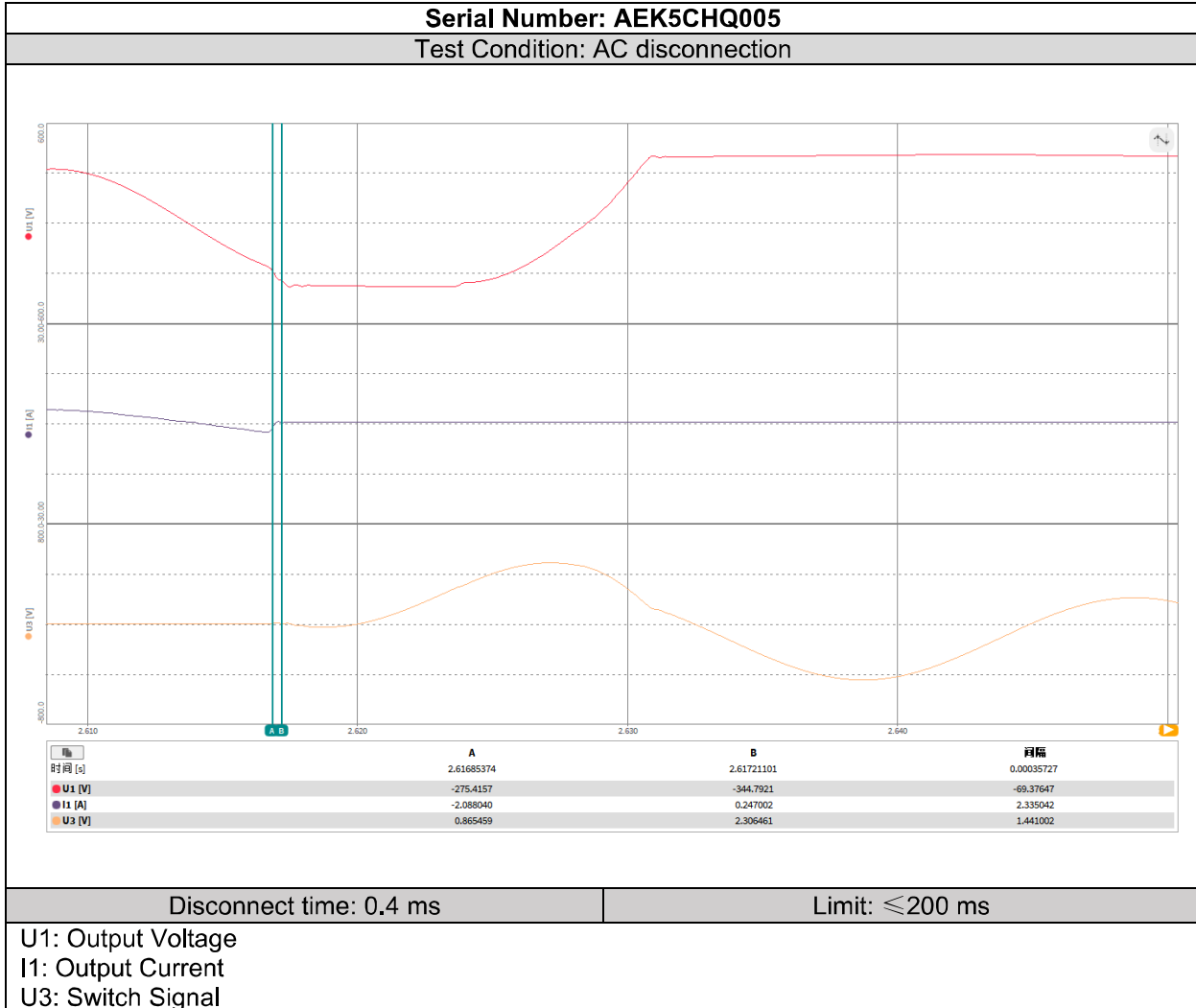
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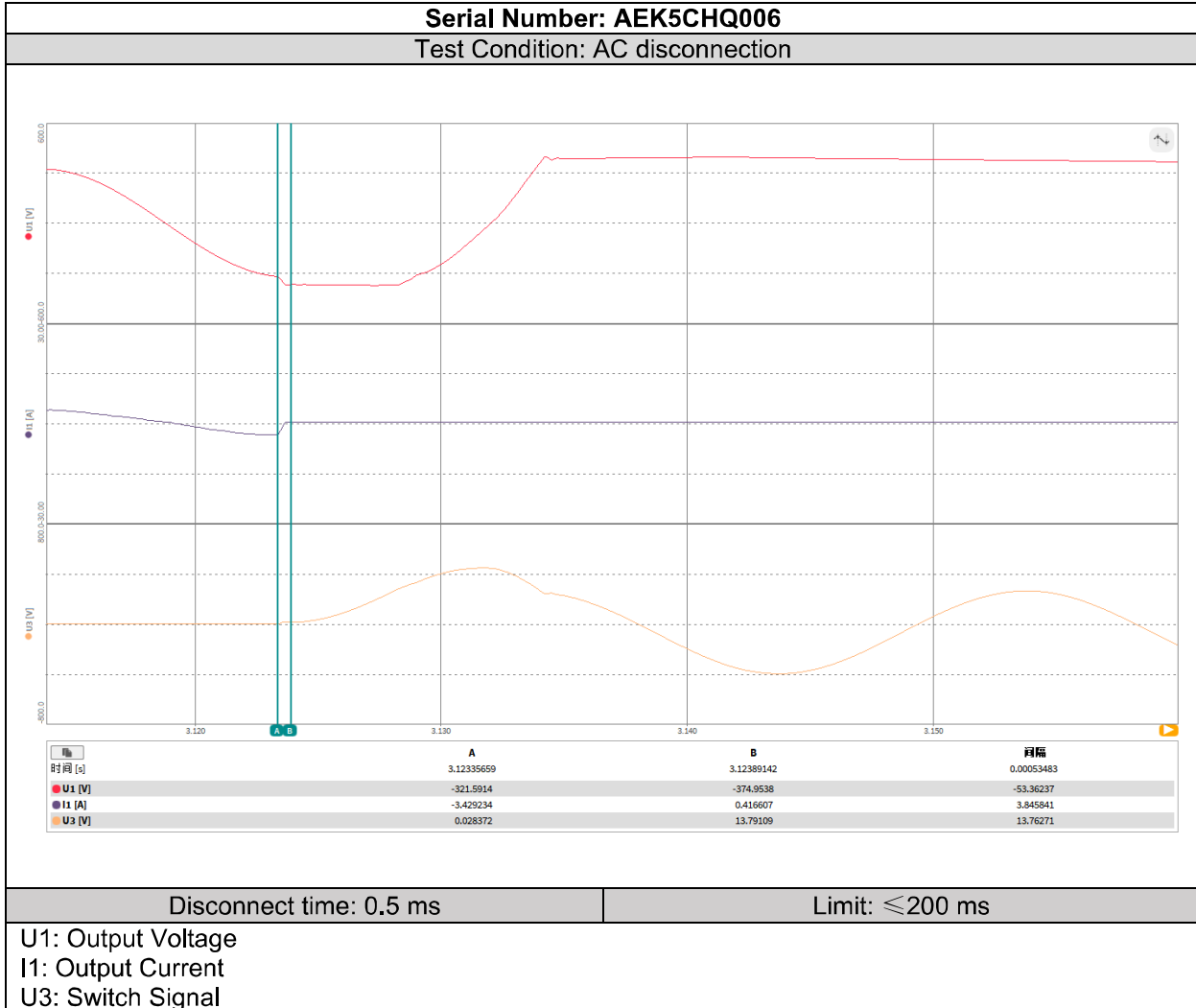
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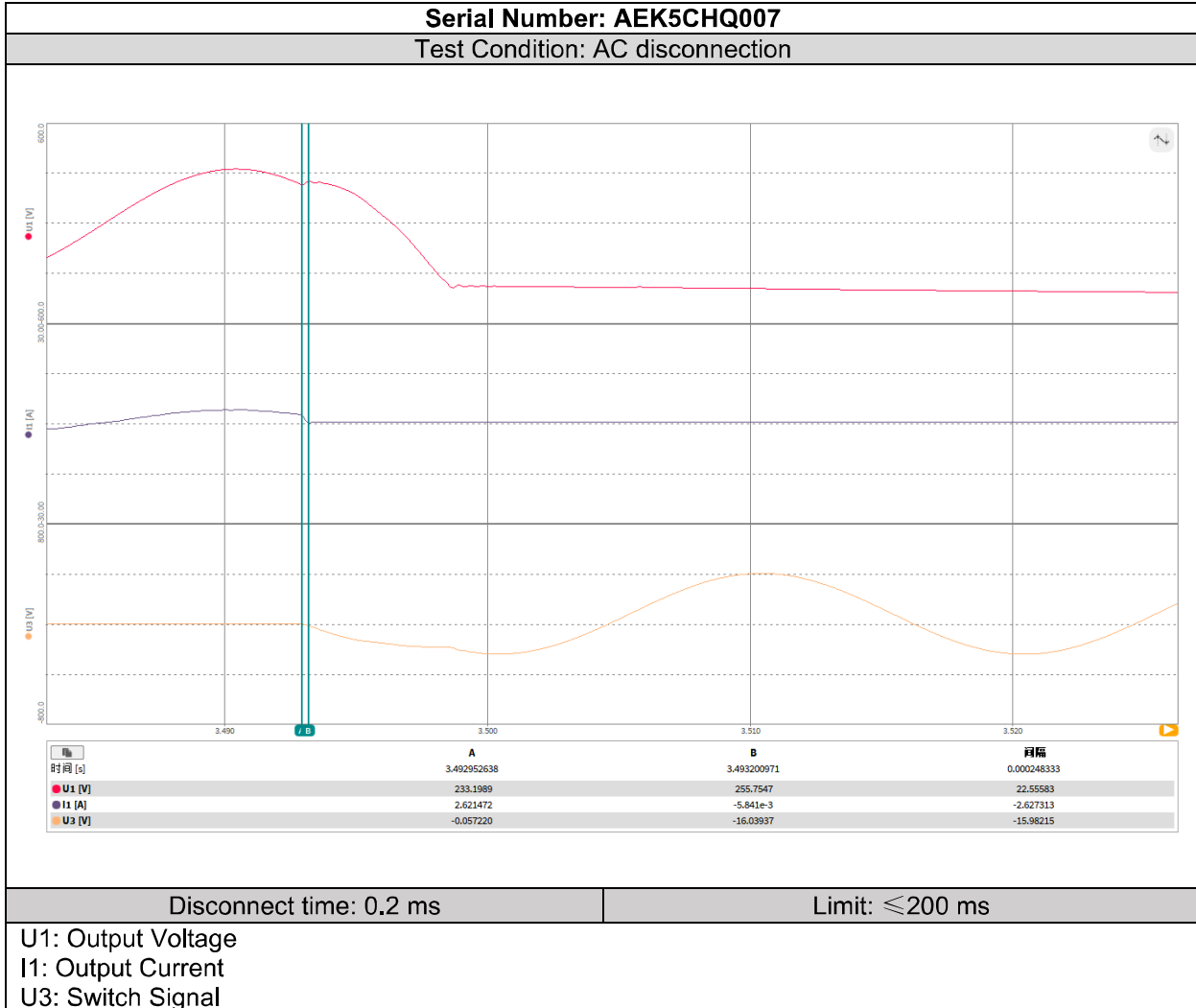
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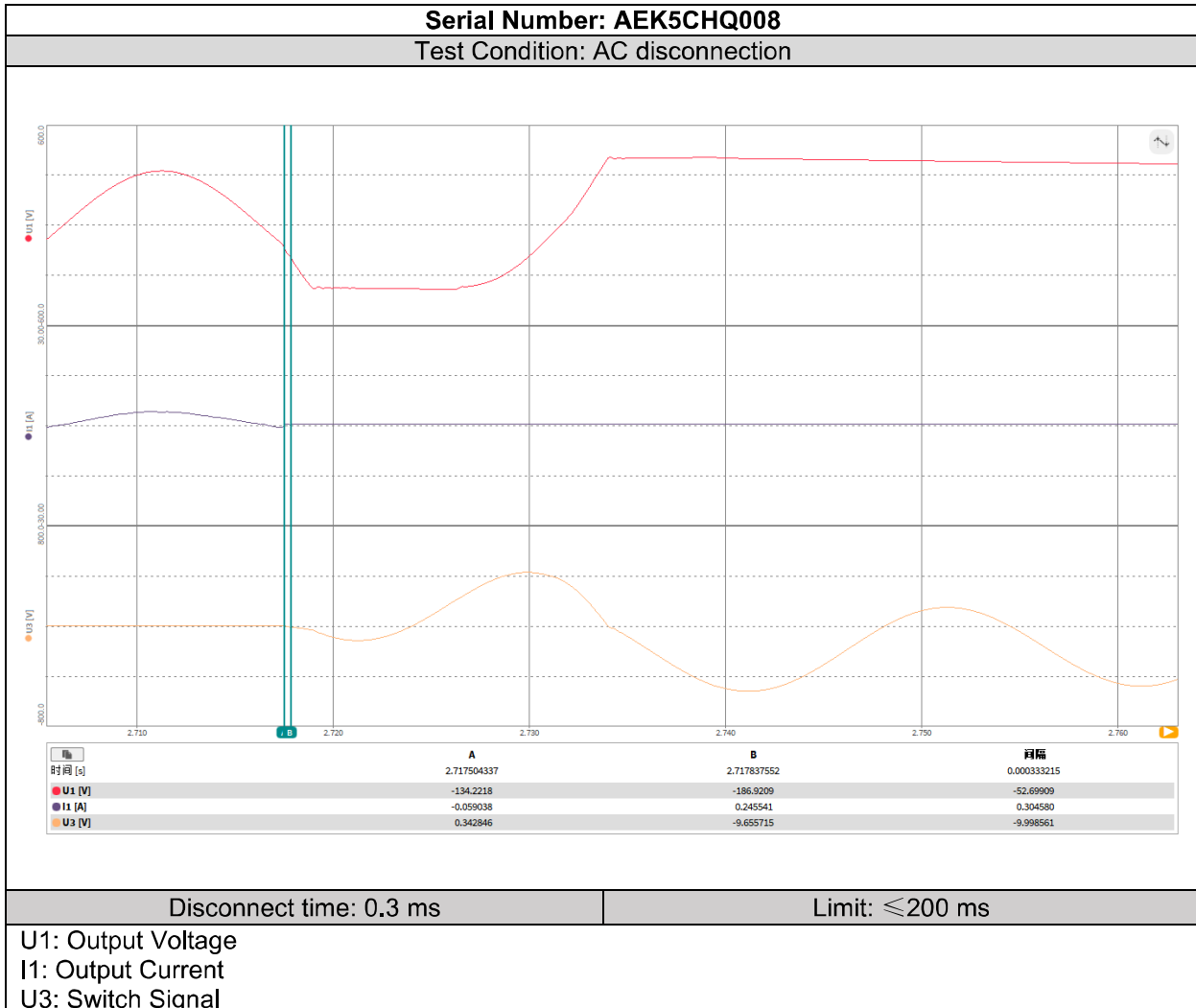
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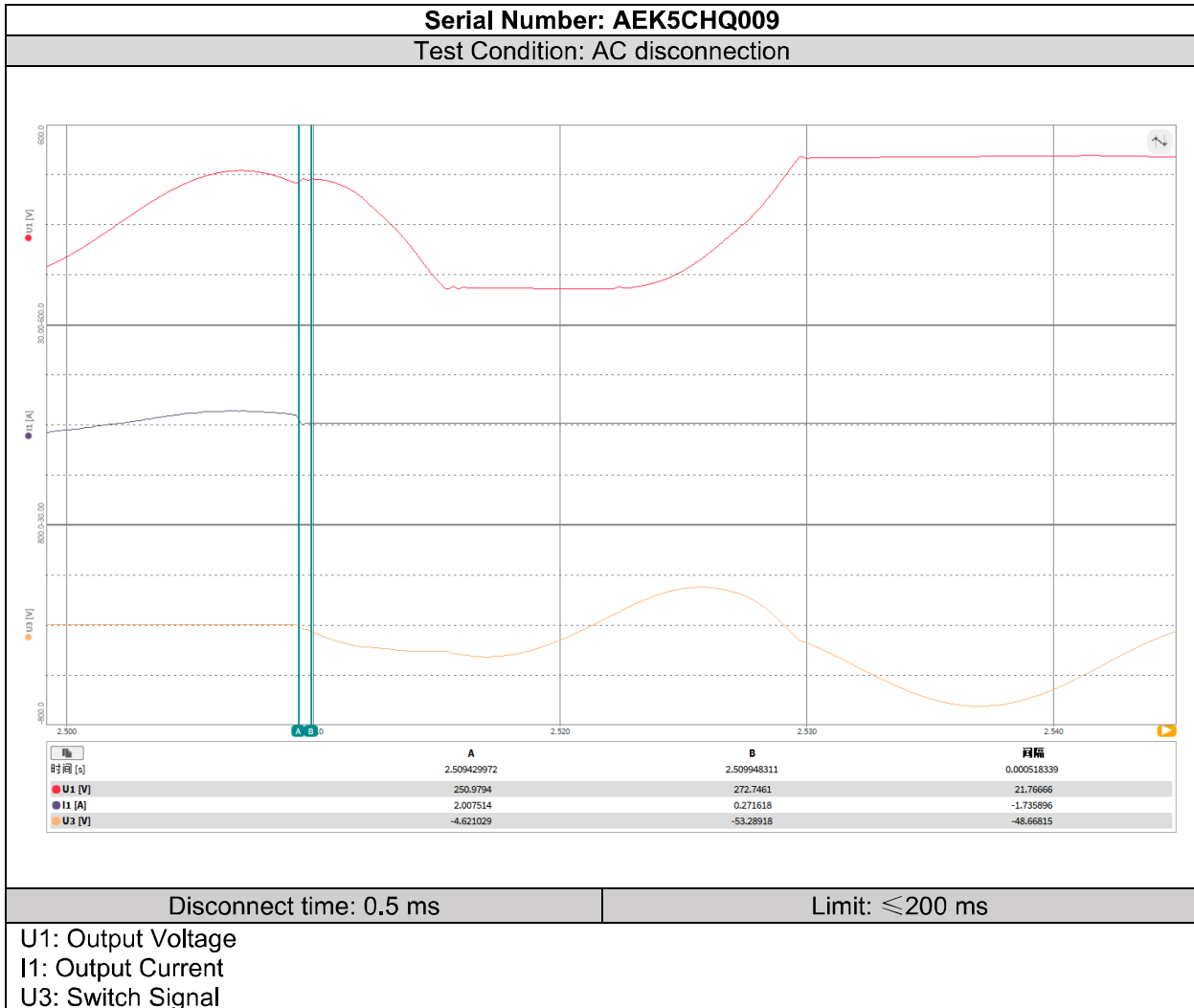
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MEASUREMENT UNCERTAINTY:

Associated uncertainties through measurements showed in this report are the maximum allowable uncertainties.

Magnitude	Uncertainty
Voltage measurement	±1.5 %
Current measurement	±2.0 %
Frequency measurement	±0.2 %
Time measurement	±0.2 %
Power measurement	±0.5 %
Phase Angle	±1°
Temperature	±3° C

Note1: Measurements uncertainties showed in this table are maximum allowable uncertainties. The measurement uncertainties associated with other parameters measured during the tests are in the laboratory at disposal of the petitioner.
 Note2: Where the standard requires lower uncertainties that those in this table. Most restrictive uncertainty has been considered.

LIST OF TEST EQUIPMENT

No.	Equipment Name	MARK/Model No.	Equipment No.	Equipment calibration due date
1	AC source	ACTIONPOWER / PRE1530M	M3032C0037	2024-06-17
2	DC source	Topcon Quadro / TCP,32,1000,400,S,H	1838CC296	2024-06-17
3	Power analyzer	DEWETRON / 1820-POWR-4	C220704005	2024-06-18
4	Current clamp	OLEM / IT700-S	1170800040	2024-06-18
5	Current clamp	OLEM / IT700-S	8172650044	2024-06-18
6	Current clamp	OLEM / IT700-S	1170800035	2024-06-18
7	Temperature and Humidity meter	deli / -	WSDJ-014	2024-06-19
8	True RMS Multimeter	Fluke / 15B	GZE012-43	2023-11-10

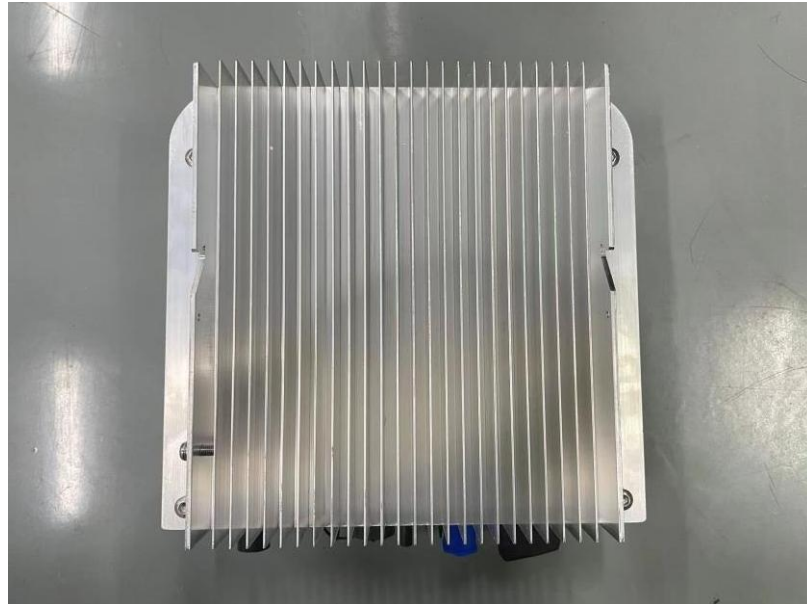


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Appendix Photos:



Front view of PV inverter



Back view of PV inverter



SGS-CSI Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center IEC Laboratory

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Left view of PV inverter



Right view of PV inverter



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Top view of PV inverter



Bottom view of PV inverter

*****End of report*****



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