

# SAFETY COMPLIANCE TESTING FOR FMVSS No. 218 MOTORCYCLE HELMETS

**Brand: KOV**  
**Model: LITIO**  
**Tested Size: L (59-60 cm)**

Prepared For:

**KOV INTERNATIONAL SA DE CV**  
Carretera Leon-Lagos #2238,  
Interior 12, Col. Lagunillas, CP. 37660,  
Leon de los Aldamas, Guanajuato, Mexico



**Issue Date: 19 January 2024**

**Final Report: 711.16163.002**

Tested By:

**Taicang ACT Sporting Goods Testing Co., Ltd.**  
No. 35 Zhenghe Road,  
Ludu Town, Taicang City, Suzhou,  
Jiangsu Province, China 215412  
[www.act-lab.com](http://www.act-lab.com)

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Contract File No.: 711.16163

Test File: 002

Control Document: Official ACT FMVSS No.218 Report Template TP-07 CN 30 November 2023 Rev.28

SharePoint/GlobalResourceLibrary/Reporting/ReportTemplates/Helmets/FMVSS No.218

Technician: Wille Wang

Test Date: 18 January 2024



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## PURPOSE OF COMPLIANCE TEST

### **Purpose:**

**The purpose of this test was to determine if the motorcycle helmets supplied by:**

**KOV INTERNATIONAL SA DE CV**

**Met the requirements of**

**Federal Motor Vehicle Safety Standard No. 218: Motorcycle Helmets effective May 13, 2013.**

**All samples received were in good condition and appropriate for these tests.**

### **Test Procedure:**

**This test was performed following TP-218-07 and ACT Lab Helmet Cadex Testing Manual 2.3**



### SUMMARY OF TEST RESULTS

INDICATE Pass or Fail

HELMET	A	B	C	D
TEST	AMBIENT	LOW TEMP	HIGH TEMP	WATER IMMERSED
IMPACT	Pass	Pass	Pass	Pass
PENETRATION	Pass	Pass	Pass	Pass
RETENTION	Pass	Pass	Pass	Pass

INDICATE Pass or Fail

TEST	PASS/FAIL
PERIPHERAL VISION	Pass
PROJECTIONS	Pass
LABELING	Pass



### SELECTION OF APPROPRIATE HEADFORM

Paragraph S6.1 - If the helmet size designation falls into more than one of three size ranges, it shall be tested on each appropriate headform.

HELMET SIZE DESIGNATION	HEADFORM SIZE
Less than or equal to 6-3/4 (European Size 54)	SMALL
Greater than 6-3/4, but less than or equal to 7-1/2 (European Size 60)	MEDIUM
Greater than 7-1/2 (European 60)	LARGE

**COMMENTS:**

The manufacturer marked the helmet with its corresponding discrete size: L (59-60 cm), Headform Size: DOT MEDIUM.

**CONDITIONING FOR TESTING — Paragraph S6.4 —** The protective headgear shall be conditioned for not less than 4 hours and no more than 24 hours, in the specified environmental condition shown below, prior to test.

Ambient Conditions	16°C to 26°C (61°F to 79°F); 30% to 70% Relative Humidity
Low Temperature	-15°C to -5°C (5°F to 23°F)
High Temperature	45°C to 55°C (113°F to 131°F)
Water Immersion	16°C to 26°C (61°F to 79°F)

The maximum time during which the protective headgear may be out of the conditioning environment shall not exceed 4 minutes. It must then be returned to the conditioned environment for a minimum of 3 minutes for each minute or portion of a minute in excess of 4 minutes out of the conditioning environment or 12 hours, whichever is less, prior to resumption of testing.

AVERAGE LAB TEMPERATURE : 22 °C ; AVERAGE LAB HUMIDITY : 57 %



### IMPACT ATTENUATION

Helmet ID	Condition	Impact #	Impact Location	Anvil	Drop Height (cm)	Velocity (m/sec)	Duration at 150G (ms)	Duration at 200G (ms)	Peak Acc. (g)	Pass/Fail
711.16163.002-A	Ambient	1	RT FRONT	FLAT	192.0	5.9548	0.00	0.00	144.8	Pass
711.16163.002-A	Ambient	2	RT FRONT	FLAT	192.0	6.0067	1.32	0.00	161.4	Pass
711.16163.002-A	Ambient	3	LF REAR	FLAT	192.0	6.0027	2.24	0.00	176.6	Pass
711.16163.002-A	Ambient	4	LF REAR	FLAT	192.0	5.9917	3.47	0.41	208.4	Pass
711.16163.002-A	Ambient	5	LF FRONT	HEMI	145.0	5.2186	0.00	0.00	89.4	Pass
711.16163.002-A	Ambient	6	LF FRONT	HEMI	145.0	5.2080	0.00	0.00	89.0	Pass
711.16163.002-A	Ambient	7	RT REAR	HEMI	145.0	5.2247	0.00	0.00	100.1	Pass
711.16163.002-A	Ambient	8	RT REAR	HEMI	145.0	5.2368	0.00	0.00	115.7	Pass
711.16163.002-B	Cold	1	RT FRONT	FLAT	192.0	6.0159	1.38	0.00	162.8	Pass
711.16163.002-B	Cold	2	RT FRONT	FLAT	192.0	5.9975	2.24	0.00	184.4	Pass
711.16163.002-B	Cold	3	LF REAR	FLAT	192.0	6.0547	3.04	0.97	210.7	Pass
711.16163.002-B	Cold	4	LF REAR	FLAT	192.0	6.0270	3.00	1.99	254.5	Pass
711.16163.002-B	Cold	5	LF FRONT	HEMI	145.0	5.2038	0.00	0.00	93.6	Pass
711.16163.002-B	Cold	6	LF FRONT	HEMI	145.0	5.2018	0.00	0.00	133.7	Pass
711.16163.002-B	Cold	7	RT REAR	HEMI	145.0	5.2244	0.00	0.00	83.9	Pass
711.16163.002-B	Cold	8	RT REAR	HEMI	145.0	5.2171	0.00	0.00	107.4	Pass
711.16163.002-C	Hot	1	RT FRONT	FLAT	192.0	5.9733	0.00	0.00	144.8	Pass
711.16163.002-C	Hot	2	RT FRONT	FLAT	192.0	6.0193	2.25	0.00	174.7	Pass
711.16163.002-C	Hot	3	LF REAR	FLAT	192.0	5.9852	2.07	0.00	179.4	Pass
711.16163.002-C	Hot	4	LF REAR	FLAT	192.0	6.0651	3.27	0.30	202.4	Pass
711.16163.002-C	Hot	5	LF FRONT	HEMI	145.0	5.2302	0.00	0.00	76.5	Pass
711.16163.002-C	Hot	6	LF FRONT	HEMI	145.0	5.2130	0.00	0.00	79.3	Pass
711.16163.002-C	Hot	7	RT REAR	HEMI	145.0	5.2326	0.00	0.00	88.1	Pass
711.16163.002-C	Hot	8	RT REAR	HEMI	145.0	5.2235	0.00	0.00	99.1	Pass
711.16163.002-D	Wet	1	RT FRONT	FLAT	192.0	6.0353	0.00	0.00	121.7	Pass
711.16163.002-D	Wet	2	RT FRONT	FLAT	192.0	5.9982	0.00	0.00	133.7	Pass
711.16163.002-D	Wet	3	LF REAR	FLAT	192.0	5.9991	2.22	0.00	176.1	Pass
711.16163.002-D	Wet	4	LF REAR	FLAT	192.0	6.0363	2.83	0.29	202.0	Pass
711.16163.002-D	Wet	5	LF FRONT	HEMI	145.0	5.2236	0.00	0.00	72.4	Pass
711.16163.002-D	Wet	6	LF FRONT	HEMI	145.0	5.2253	0.00	0.00	111.6	Pass
711.16163.002-D	Wet	7	RT REAR	HEMI	145.0	5.2252	0.00	0.00	83.9	Pass
711.16163.002-D	Wet	8	RT REAR	HEMI	145.0	5.2635	0.00	0.00	98.2	Pass

Contract File No.: 711.16163

Test File: 002

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SharePoint/GlobalResourceLibrary/Reporting/ReportTemplates/Helmets/FMVSS No.218

Technician: Wille Wang

Test Date: 18 January 2024

## PENETRATION

Paragraph S5.2 and S7.2

**WEIGHT OF STRIKER:** 2.95 to 3.06 kg (6 pounds, 8 ounces to 6 pounds, 12 ounces)

**POINT OF STRIKER:** Radius =  $0.5 \pm 0.1$  mm ( $0.02 \pm 0.004$  in.), included angle of  $60^\circ \pm 0.5^\circ$ , hardness minimum of 60 Rockwell "C" Scale and a cone height of not less than  $3.8 \pm 0.038$  cm ( $1.5 \pm 0.015$  in.).

**HEIGHT OF FALL:**  $300 \text{ cm} \pm 1.5 \text{ cm}$ , measured from the tip of the striker point to the outer surface of the mounted protective headgear.

**FAILURE CRITERION:** When tested, the protective headgear shall be failed if the penetrator has made an indentation in the headform.

TEST	HELMET	TEST LOCATION	PASS	FAIL	CONDITIONS
1	A	Crown	X		AMBIENT
2	A	Rear	X		AMBIENT
3	B	Crown	X		LOW TEMPERATURE
4	B	Rear	X		LOW TEMPERATURE
5	C	Crown	X		HIGH TEMPERATURE
6	C	Rear	X		HIGH TEMPERATURE
7	D	Crown	X		WATER IMMERSED
8	D	Rear	X		WATER IMMERSED

**COMMENT:** Photographs of penetration test locations are found in Appendix C.



## RETENTION SYSTEM

Paragraph S5.3 and S7.3

### REQUIREMENTS:

READING	APPLIED LOAD
INITIAL	22.68 kg, + 4.54 kg, - 0 kg (50.0 lbs., + 10 lbs., - 0 lbs.)
FINAL	136 kg, + 0 kg, - 2.3 kg (300.0 lbs., + 0 lbs., - 5 lbs.)

ELONGATION NOT TO EXCEED 2.54 cm (1.0 INCH) AFTER LOAD INCREASE

HELMET	CONDITIONS	ELONGATION cm
A	AMBIENT	1.86
B	LOW TEMPERATURE	1.50
C	HIGH TEMPERATURE	1.65
D	WATER IMMERSED	1.38

## PERIPHERAL VISION

CONFIGURATION - Paragraph S5.4 - Helmet shall provide a minimum peripheral vision of 105° to each side of the midsagittal plane. The brow opening shall be at least 2.54 cm (1 inch) above all points in the basic plane that are within the angles of peripheral vision.

	REQUIREMENTS	TEST RESULTS
PERIPHERAL VISION	> 105°	Pass
BROW OPENING	> 2.5 cm (1 inch)	Pass

## PROJECTIONS

Paragraph S5.5

### REQUIREMENTS:

PROJECTION	REQUIREMENT
Internal rigid	None
External rigid	Operational, shall not protrude more than 5 mm

### TEST RESULTS:

PROJECTION	PRESENT	HEIGHT (mm)
Internal	None	Not Applicable
External	Spoiler	37.20 mm

### COMMENT:

- The projection is greater than 5 mm in height but is loosely attached to the shell as it can be removed without the aid of a tool and therefore deemed non-rigid.

### LABELING

S5.6.1 *Labeling* - Each helmet shall be permanently and legibly labeled, in a manner such that the label(s) can be easily read without removing padding or any other permanent part, with the following:

Required Information	Content/Format	Permanent
Manufacturer's name	Pass	Pass
Discrete size	Pass	Pass
Month and year of manufacture	Pass	Pass
Instructions to the purchaser as follows:	-----	-----
"Shell and liner constructed of (identify type(s) of materials)."	Pass	Pass
"Helmet can be seriously damaged by some common substances without damage being visible to the user."	Pass	Pass
"Apply only the following: (Recommended cleaning agents, paints, adhesives, etc., as appropriate.)"	Pass	Pass
"Make no modifications."	Pass	Pass
"Fasten helmet securely."	Pass	Pass
"If helmet experiences a severe blow, return it to the manufacturer for inspection, or destroy it and replace it."	Pass	Pass

**COMMENT:**

- Labels were determined to be both easily read and permanent based on the TP-218-07, Section 12.5.4.

### LABELING

S5.6.2 Certification. Each helmet shall be labeled permanently and legibly with a label, constituting the manufacturer’s certification that the helmet conforms to the applicable Federal motor vehicle safety standards, that is separate from the label(s) used to comply with S5.6.1, and complies with paragraphs (a) through (c) of this section. (a) Content, format, and appearance. The label required by paragraph S5.6.2 shall have the following content, format, and appearance:

Required Certification Information	Content/Format	Permanent
The symbol “DOT,” horizontally centered on the label, in letters not less than 0.38 inch (1.0 cm) high.	Pass	Pass
The term “FMVSS No. 218,” horizontally centered beneath the symbol DOT, in letters not less than 0.09 inches (0.23 cm) high.	Pass	
The word “CERTIFIED,” horizontally centered beneath the term “FMVSS No. 218,” in letters not less than 0.09 inches (0.23 cm) high.	Pass	
The precise model designation horizontally centered above the symbol DOT, in letters and/or numerals not less than 0.09 inch (0.23 cm) high.	Pass	
The manufacturer’s name and/or brand, horizontally centered above the model designation, in letters and/or numerals not less than 0.09 inch (0.23 cm) high.	Pass	
All symbols, letters and numerals shall be in a color that contrasts with the background of the label.	Pass	
No information, other than the information specified in subparagraph (a), shall appear on the label.	Pass	
The label shall appear on the outer surface of the helmet and be placed so that it is centered laterally with the horizontal centerline of the DOT symbol located a minimum of 1 inch (2.5 cm) and a maximum of 3 inches (7.6 cm) from the bottom edge of the posterior portion of the helmet.	Pass	

**COMMENT:**

- Labels were determined to be both easily read and permanent based on the TP-218-07, Section 12.5.4.



## TEST DATA

Contract File No.: 711.16163

Test File: 002

Control Document: Official ACT FMVSS No.218 Report Template TP-07 CN 30 November 2023 Rev.28

SharePoint/GlobalResourceLibrary/Reporting/ReportTemplates/Helmets/FMVSS No.218

Technician: Wille Wang

Test Date: 18 January 2024

# Uni-Axial Calibration

M.E.P. Pad Model

Helmet Manufacturer KOV

Address :

Testing Laboratory Taicang ACT Lab

Address : No.605 Shanghai Road, Ludu Town,  
Taicang City, Suzhou, Jiangsu Province,  
China 215412

Laboratory Technician name Wille

Laboratory Temperature  deg C

Laboratory Humidity  %

Selected Filter Frequency  Hz

Acc. sensitivity (axis Z) :  mV/G

Acc. sensitivity (axis X) :  mV/G

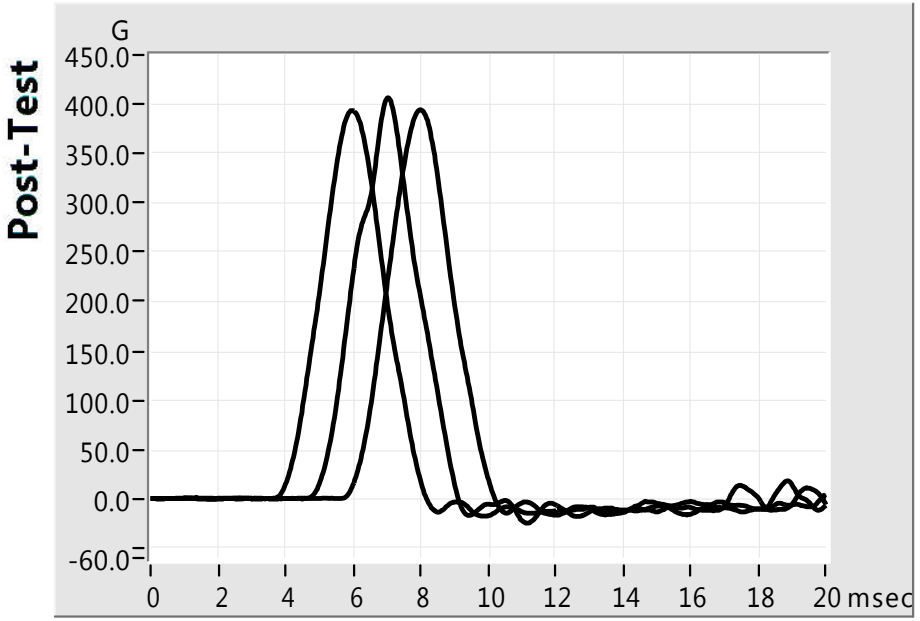
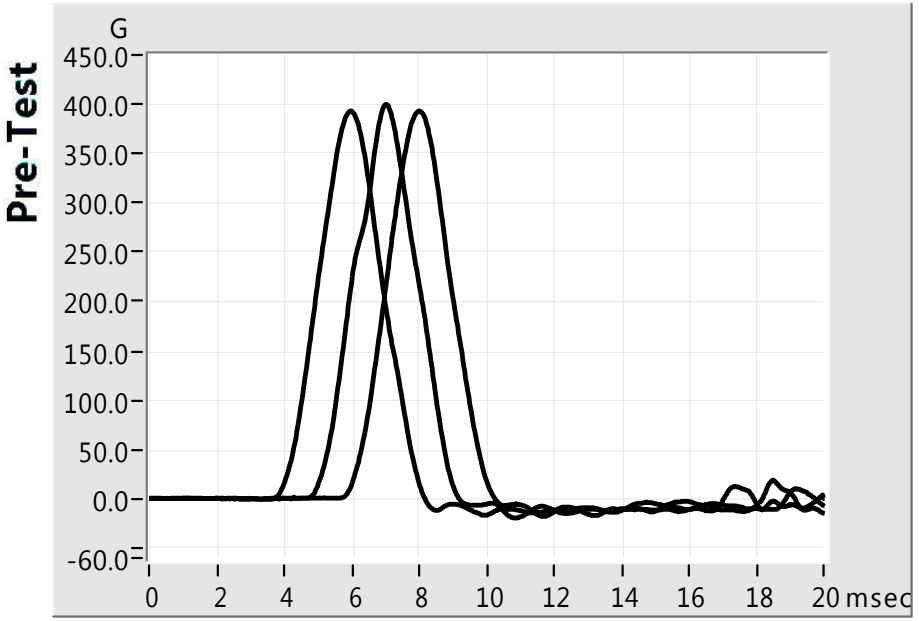
Acc. sensitivity (axis Y) :  mV/G

Drop Device :

Drop mass assembly :  kg

Time gate flag height :  mm

Calibration peak :  G +/-  G



Impact #	Peak Acc.(G)	HIC	Velocity IN (m/sec)	Drop Height (cm)	Anvil type	Delta T 150G (msec)	Delta T 200G (msec)	Position	Test Date	Test Time	Friction (%)	PASS or FAIL	
Pre-Test	1	392.8	3659	4.7357	120.0	MEP	2.51	2.06	0/0	2024-01-18	08:51:31	2.4	Pass
	2	399.8	3573	4.7831	120.0	MEP	2.57	2.17	0/0	2024-01-18	08:52:35	1.4	Pass
	3	392.8	3697	4.7699	120.0	MEP	2.49	2.06	0/0	2024-01-18	08:53:36	1.7	Pass
Post-Test	1	393.3	3700	4.7418	120.0	MEP	2.49	2.04	0/0	2024-01-18	15:23:48	2.3	Pass
	2	406.2	3564	4.7025	120.0	MEP	2.58	2.13	0/0	2024-01-18	15:24:50	3.1	Pass
	3	394.2	3715	4.7417	120.0	MEP	2.48	2.05	0/0	2024-01-18	15:25:51	2.3	Pass

Curve impact #2 : shift of 1ms  
Curve impact #3 : shift of 2ms

# Impact Uni-Axial

Testing Laboratory : Taicang ACT Lab

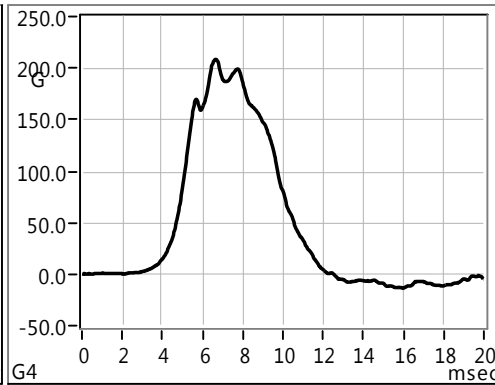
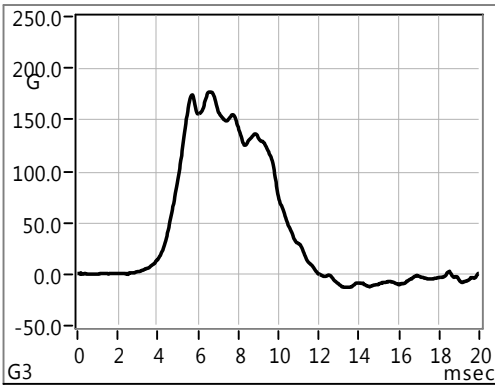
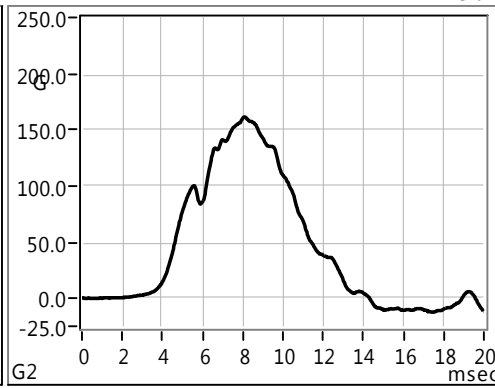
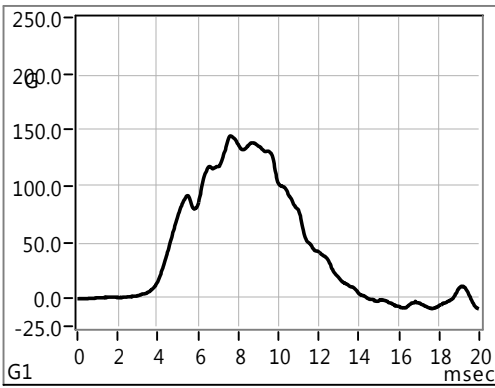
Address : No.605 Shanghai Road, Ludu Town,  
Taicang City, Suzhou, Jiangsu  
Province, China 215412

Helmet Manufacturer : KOV  
Address :

Laboratory Technician name : Wille

Batch Number :

Ref. P.O. Number :



Model : LITIO  
Color : Black  
Size : L(59-60CM)  
Weight : 1506.00 g  
Manufacturing Date : 18 Jan 2024  
Standard Request : FMVSS 218  
Identification Code : 711.16163.002-A  
Headform Model : D.O.T.  
Headform Size : C D.O.T  
Conditioning : Ambient  
Laboratory Temperature : 22 deg C  
Laboratory Humidity : 57 %  
Selected Filter Frequency : 1650 Hz  
Maximum Peak G's authorized : 400 G  
Maximum Peak m/s<sup>2</sup> authorized : 3923 m/s<sup>2</sup>  
Drop mass assembly : 5.028 kg  
Time gate flag height : 25.55 mm  
Acc. sensibility (axis Z) : 10.59

Impact #	Peak Acc.(G)	HIC	Velocity IN (m/sec)	Drop Height (cm)	Anvil type	Delta T 150G (msec)	Delta T 200G (msec)	Position	Test Date	Test Time	Friction (%)	PASS or FAIL
1	144.8	824	5.9548	192.0	FLAT	0.00	0.00	RT FRONT	2024-01-18	08:59:59	3.0	Pass
2	161.4	998	6.0067	192.0	FLAT	1.32	0.00	RT FRONT	2024-01-18	09:00:10	2.1	Pass
3	176.6	1204	6.0027	192.0	FLAT	2.24	0.00	LF REAR	2024-01-18	09:07:16	2.2	Pass
4	208.4	1653	5.9917	192.0	FLAT	3.47	0.41	LF REAR	2024-01-18	09:07:34	2.4	Pass

# Impact Uni-Axial

Testing Laboratory : Taicang ACT Lab

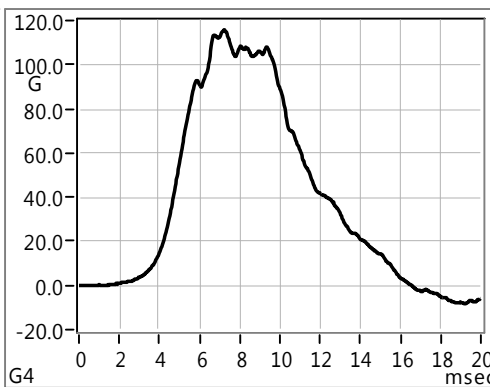
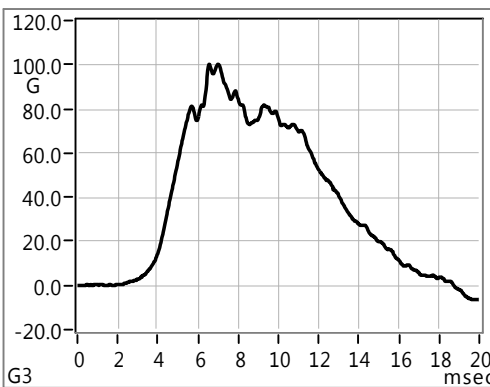
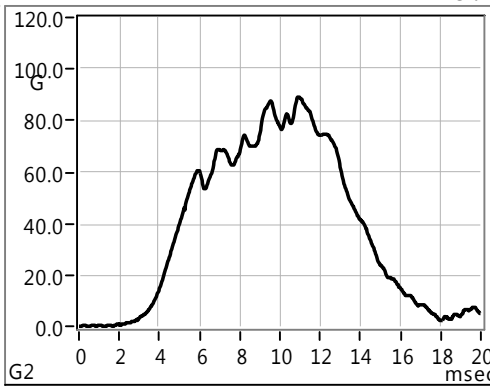
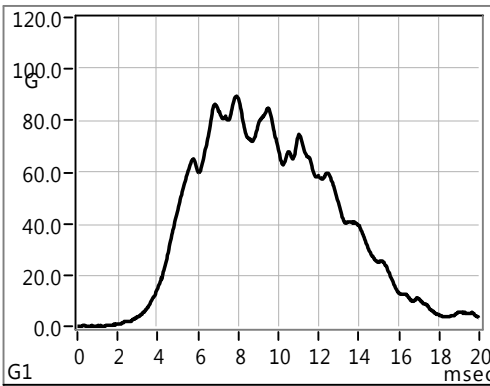
Address : No.605 Shanghai Road, Ludu Town,  
Taicang City, Suzhou, Jiangsu  
Province, China 215412

Helmet Manufacturer : KOV  
Address :

Laboratory Technician name : Wille

Batch Number :

Ref. P.O. Number :



Model : LITIO  
Color : Black  
Size : L(59-60CM)  
Weight : 1506.00 g  
Manufacturing Date : 18 Jan 2024  
Standard Request : FMVSS 218  
Identification Code : 711.16163.002-A  
Headform Model : D.O.T.  
Headform Size : C D.O.T  
Conditioning : Ambient  
Laboratory Temperature : 22 deg C  
Laboratory Humidity : 57 %  
Selected Filter Frequency : 1650 Hz  
Maximum Peak G's authorized : 400 G  
Maximum Peak m/s<sup>2</sup> authorized : 3923 m/s<sup>2</sup>  
Drop mass assembly : 5.028 kg  
Time gate flag height : 25.55 mm  
Acc. sensibility (axis Z) : 10.59

Impact #	Peak Acc.(G)	HIC	Velocity IN (m/sec)	Drop Height (cm)	Anvil type	Delta T 150G (msec)	Delta T 200G (msec)	Position	Test Date	Test Time	Friction (%)	PASS or FAIL
5	89.4	328	5.2186	145.0	HEMI	0.00	0.00	LF FRONT	2024-01-18	09:14:03	2.1	Pass
6	89.0	350	5.2080	145.0	HEMI	0.00	0.00	LF FRONT	2024-01-18	09:14:08	2.3	Pass
7	100.1	375	5.2247	145.0	HEMI	0.00	0.00	RT REAR	2024-01-18	09:18:19	2.0	Pass
8	115.7	533	5.2368	145.0	HEMI	0.00	0.00	RT REAR	2024-01-18	09:18:24	1.8	Pass



# Impact Uni-Axial

Testing Laboratory : Taicang ACT Lab

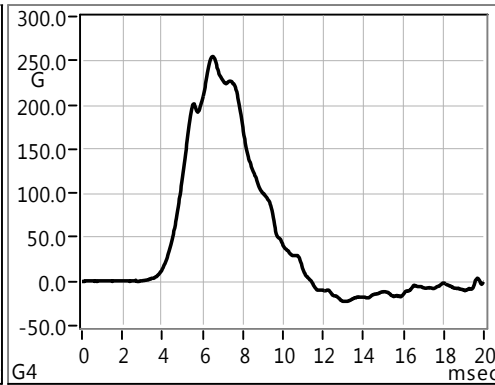
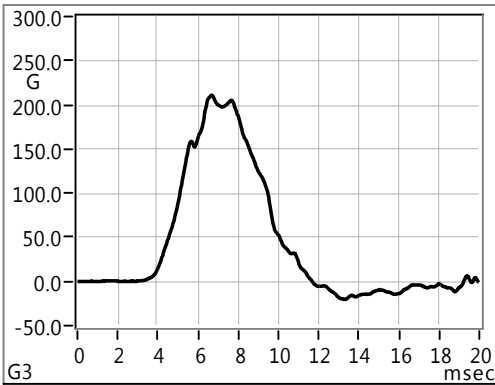
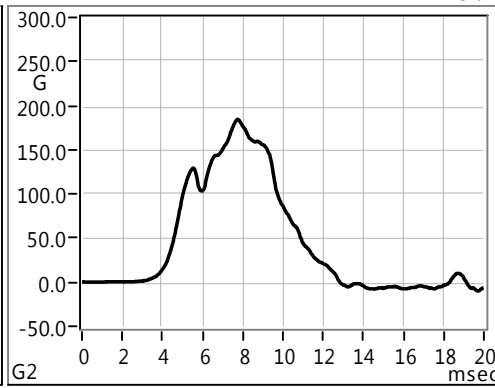
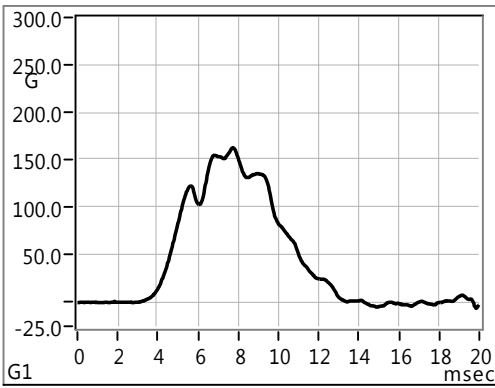
Address : No.605 Shanghai Road, Ludu Town,  
Taicang City, Suzhou, Jiangsu  
Province, China 215412

Helmet Manufacturer : KOV  
Address :

Laboratory Technician name : Wille

Batch Number :

Ref. P.O. Number :



Model : LITIO  
Color : Black  
Size : L(59-60CM)  
Weight : 1507.00 g  
Manufacturing Date : 18 Jan 2024  
Standard Request : FMVSS 218  
Identification Code : 711.16163.002-B  
Headform Model : D.O.T.  
Headform Size : C D.O.T  
Conditioning : Cold  
Laboratory Temperature : 22 deg C  
Laboratory Humidity : 57 %  
Selected Filter Frequency : 1650 Hz  
Maximum Peak G's authorized : 400 G  
Maximum Peak m/s<sup>2</sup> authorized : 3923 m/s<sup>2</sup>  
Drop mass assembly : 5.028 kg  
Time gate flag height : 25.55 mm  
Acc. sensibility (axis Z) : 10.59

Impact #	Peak Acc.(G)	HIC	Velocity IN (m/sec)	Drop Height (cm)	Anvil type	Delta T 150G (msec)	Delta T 200G (msec)	Position	Test Date	Test Time	Friction (%)	PASS or FAIL
1	162.8	966	6.0159	192.0	FLAT	1.38	0.00	RT FRONT	2024-01-18	09:00:42	2.0	Pass
2	184.4	1187	5.9975	192.0	FLAT	2.24	0.00	RT FRONT	2024-01-18	09:00:50	2.3	Pass
3	210.7	1529	6.0547	192.0	FLAT	3.04	0.97	LF REAR	2024-01-18	09:05:19	1.3	Pass
4	254.5	2002	6.0270	192.0	FLAT	3.00	1.99	LF REAR	2024-01-18	09:05:36	1.8	Pass

# Impact Uni-Axial

Testing Laboratory : Taicang ACT Lab

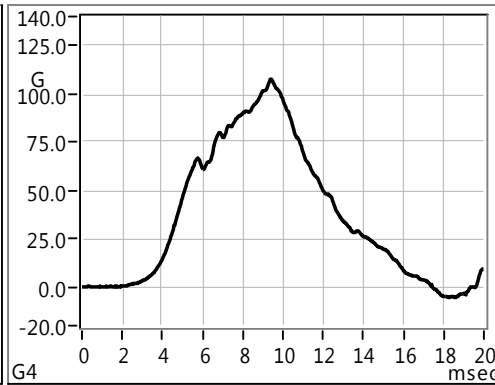
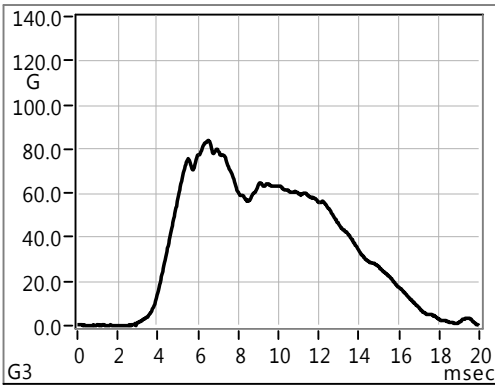
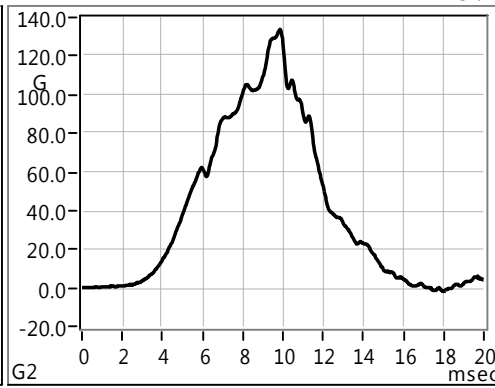
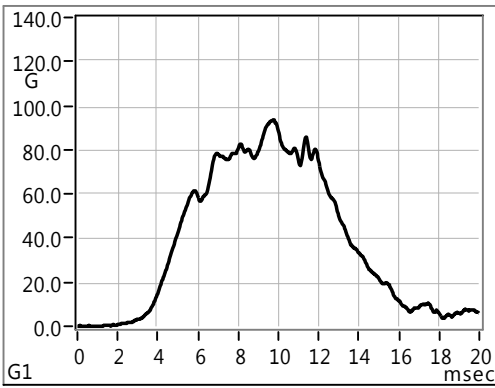
Address : No.605 Shanghai Road, Ludu Town,  
Taicang City, Suzhou, Jiangsu  
Province, China 215412

Helmet Manufacturer : KOV  
Address :

Laboratory Technician name : Wille

Batch Number :

Ref. P.O. Number :



Model : LITIO  
Color : Black  
Size : L(59-60CM)  
Weight : 1507.00 g  
Manufacturing Date : 18 Jan 2024  
Standard Request : FMVSS 218  
Identification Code : 711.16163.002-B  
Headform Model : D.O.T.  
Headform Size : C D.O.T  
Conditioning : Cold  
Laboratory Temperature : 22 deg C  
Laboratory Humidity : 57 %  
Selected Filter Frequency : 1650 Hz  
Maximum Peak G's authorized : 400 G  
Maximum Peak m/s<sup>2</sup> authorized : 3923 m/s<sup>2</sup>  
Drop mass assembly : 5.028 kg  
Time gate flag height : 25.55 mm  
Acc. sensibility (axis Z) : 10.59

Impact #	Peak Acc.(G)	HIC	Velocity IN (m/sec)	Drop Height (cm)	Anvil type	Delta T 150G (msec)	Delta T 200G (msec)	Position	Test Date	Test Time	Friction (%)	PASS or FAIL
5	93.6	369	5.2038	145.0	HEMI	0.00	0.00	LF FRONT	2024-01-18	09:10:27	2.4	Pass
6	133.7	525	5.2018	145.0	HEMI	0.00	0.00	LF FRONT	2024-01-18	09:10:43	2.5	Pass
7	83.9	272	5.2244	145.0	HEMI	0.00	0.00	RT REAR	2024-01-18	09:16:28	2.0	Pass
8	107.4	390	5.2171	145.0	HEMI	0.00	0.00	RT REAR	2024-01-18	09:16:37	2.2	Pass

# Impact Uni-Axial

Testing Laboratory : Taicang ACT Lab

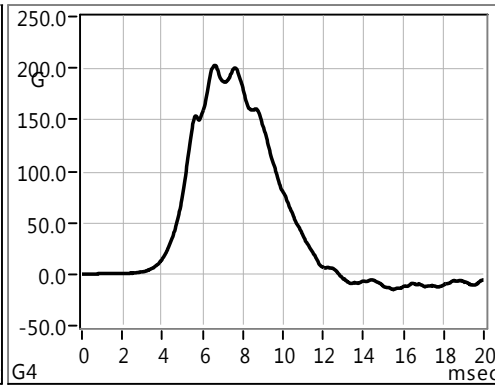
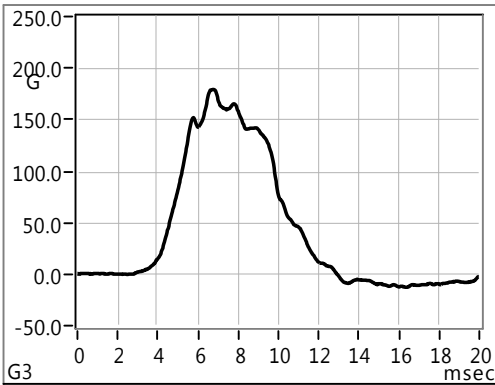
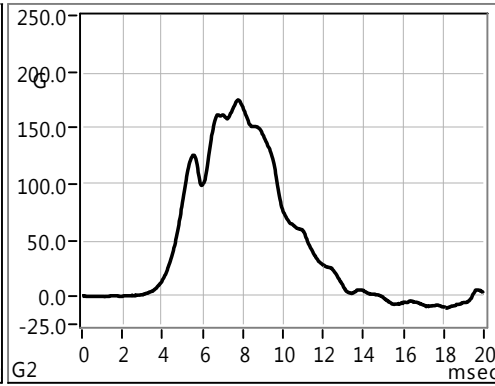
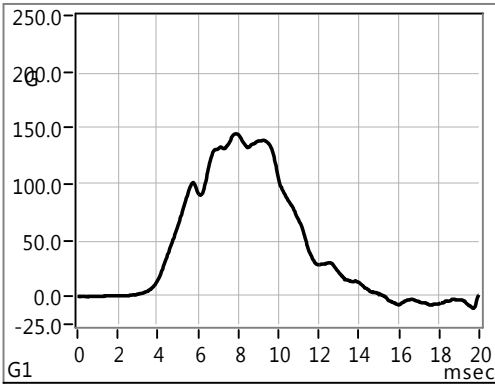
Address : No.605 Shanghai Road, Ludu Town,  
Taicang City, Suzhou, Jiangsu  
Province, China 215412

Helmet Manufacturer : KOV  
Address :

Laboratory Technician name : Wille

Batch Number :

Ref. P.O. Number :



Model : LITIO  
Color : Black  
Size : L(59-60CM)  
Weight : 1507.00 g  
Manufacturing Date : 18 Jan 2024  
Standard Request : FMVSS 218  
Identification Code : 711.16163.002-C  
Headform Model : D.O.T.  
Headform Size : C D.O.T  
Conditioning : Hot  
Laboratory Temperature : 22 deg C  
Laboratory Humidity : 57 %  
Selected Filter Frequency : 1650 Hz  
Maximum Peak G's authorized : 400 G  
Maximum Peak m/s<sup>2</sup> authorized : 3923 m/s<sup>2</sup>  
Drop mass assembly : 5.028 kg  
Time gate flag height : 25.55 mm  
Acc. sensibility (axis Z) : 10.59

Impact #	Peak Acc.(G)	HIC	Velocity IN (m/sec)	Drop Height (cm)	Anvil type	Delta T 150G (msec)	Delta T 200G (msec)	Position	Test Date	Test Time	Friction (%)	PASS or FAIL
1	144.8	846	5.9733	192.0	FLAT	0.00	0.00	RT FRONT	2024-01-18	09:01:33	2.7	Pass
2	174.7	1099	6.0193	192.0	FLAT	2.25	0.00	RT FRONT	2024-01-18	09:01:41	1.9	Pass
3	179.4	1227	5.9852	192.0	FLAT	2.07	0.00	LF REAR	2024-01-18	09:06:30	2.5	Pass
4	202.4	1522	6.0651	192.0	FLAT	3.27	0.30	LF REAR	2024-01-18	09:06:36	1.2	Pass

# Impact Uni-Axial

Testing Laboratory : Taicang ACT Lab

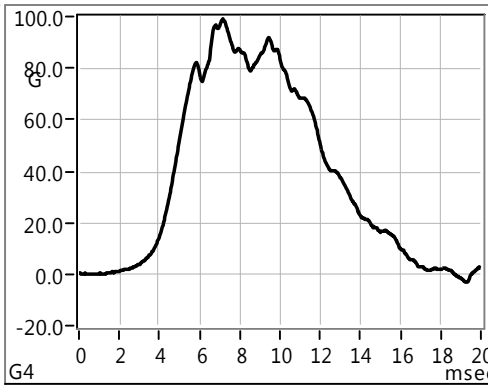
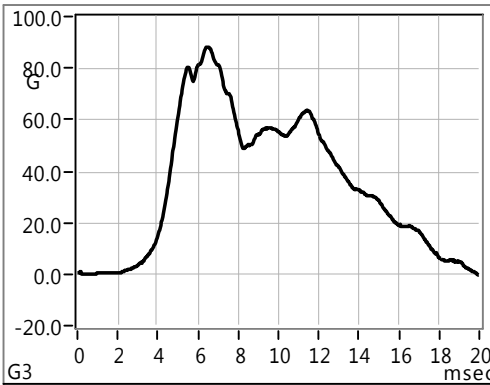
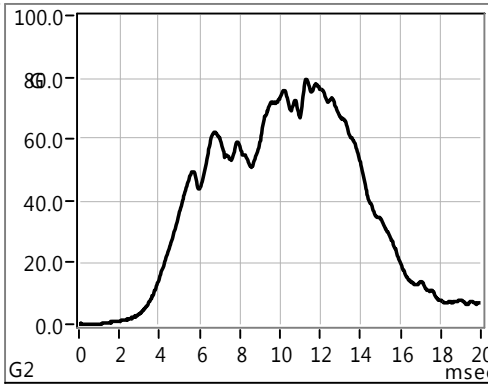
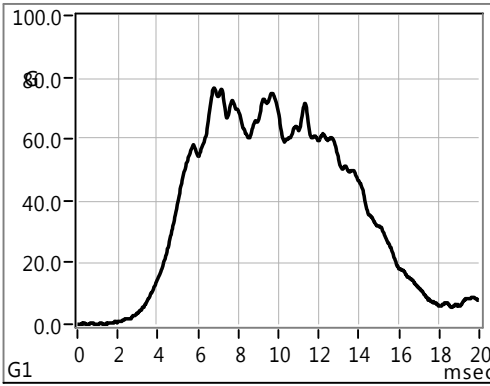
Address : No.605 Shanghai Road, Ludu Town,  
Taicang City, Suzhou, Jiangsu  
Province, China 215412

Helmet Manufacturer : KOV  
Address :

Laboratory Technician name : Wille

Batch Number :

Ref. P.O. Number :



Model : LITIO  
Color : Black  
Size : L(59-60CM)  
Weight : 1507.00 g  
Manufacturing Date : 18 Jan 2024  
Standard Request : FMVSS 218  
Identification Code : 711.16163.002-C  
Headform Model : D.O.T.  
Headform Size : C D.O.T  
Conditioning : Hot  
Laboratory Temperature : 22 deg C  
Laboratory Humidity : 57 %  
Selected Filter Frequency : 1650 Hz  
Maximum Peak G's authorized : 400 G  
Maximum Peak m/s<sup>2</sup> authorized : 3923 m/s<sup>2</sup>  
Drop mass assembly : 5.028 kg  
Time gate flag height : 25.55 mm  
Acc. sensibility (axis Z) : 10.59

Impact #	Peak Acc.(G)	HIC	Velocity IN (m/sec)	Drop Height (cm)	Anvil type	Delta T 150G (msec)	Delta T 200G (msec)	Position	Test Date	Test Time	Friction (%)	PASS or FAIL
5	76.5	276	5.2302	145.0	HEMI	0.00	0.00	LF FRONT	2024-01-18	09:13:24	1.9	Pass
6	79.3	281	5.2130	145.0	HEMI	0.00	0.00	LF FRONT	2024-01-18	09:13:30	2.2	Pass
7	88.1	248	5.2326	145.0	HEMI	0.00	0.00	RT REAR	2024-01-18	09:17:30	1.9	Pass
8	99.1	396	5.2235	145.0	HEMI	0.00	0.00	RT REAR	2024-01-18	09:17:34	2.1	Pass



# Impact Uni-Axial

Testing Laboratory : Taicang ACT Lab

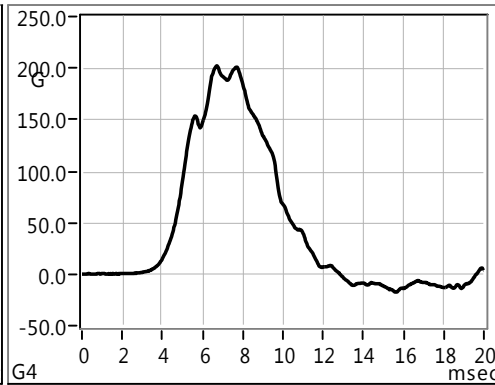
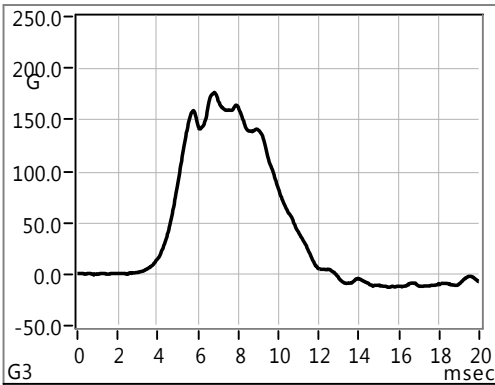
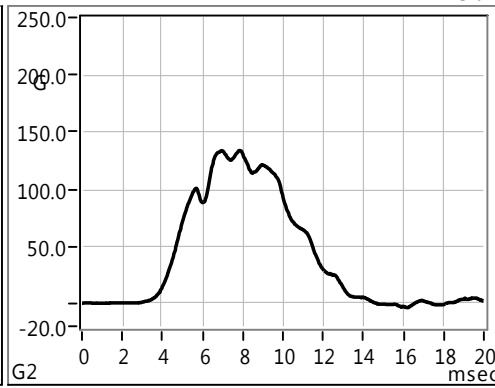
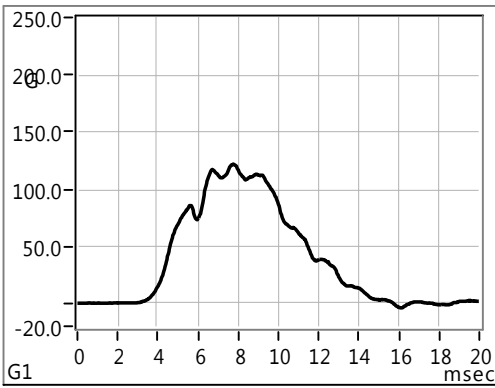
Address : No.605 Shanghai Road, Ludu Town,  
Taicang City, Suzhou, Jiangsu  
Province, China 215412

Helmet Manufacturer : KOV  
Address :

Laboratory Technician name : Wille

Batch Number :

Ref. P.O. Number :



Model : LITIO  
Color : Black  
Size : L(59-60CM)  
Weight : 1511.00 g  
Manufacturing Date : 18 Jan 2024  
Standard Request : FMVSS 218  
Identification Code : 711.16163.002-D  
Headform Model : D.O.T.  
Headform Size : C D.O.T  
Conditioning : Wet  
Laboratory Temperature : 22 deg C  
Laboratory Humidity : 57 %  
Selected Filter Frequency : 1650 Hz  
Maximum Peak G's authorized : 400 G  
Maximum Peak m/s<sup>2</sup> authorized : 3923 m/s<sup>2</sup>  
Drop mass assembly : 5.028 kg  
Time gate flag height : 25.55 mm  
Acc. sensibility (axis Z) : 10.59

Impact #	Peak Acc.(G)	HIC	Velocity IN (m/sec)	Drop Height (cm)	Anvil type	Delta T 150G (msec)	Delta T 200G (msec)	Position	Test Date	Test Time	Friction (%)	PASS or FAIL
1	121.7	553	6.0353	192.0	FLAT	0.00	0.00	RT FRONT	2024-01-18	09:02:50	1.7	Pass
2	133.7	708	5.9982	192.0	FLAT	0.00	0.00	RT FRONT	2024-01-18	09:03:01	2.3	Pass
3	176.1	1218	5.9991	192.0	FLAT	2.22	0.00	LF REAR	2024-01-18	09:08:02	2.2	Pass
4	202.0	1495	6.0363	192.0	FLAT	2.83	0.29	LF REAR	2024-01-18	09:08:08	1.6	Pass

# Impact Uni-Axial

Testing Laboratory : Taicang ACT Lab

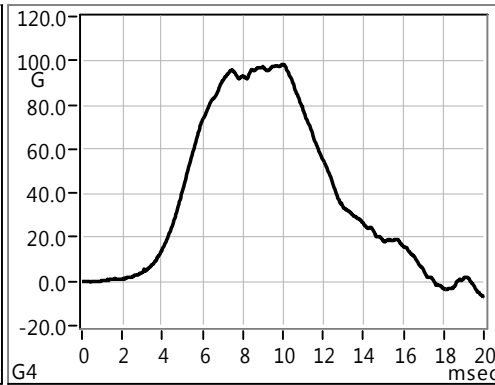
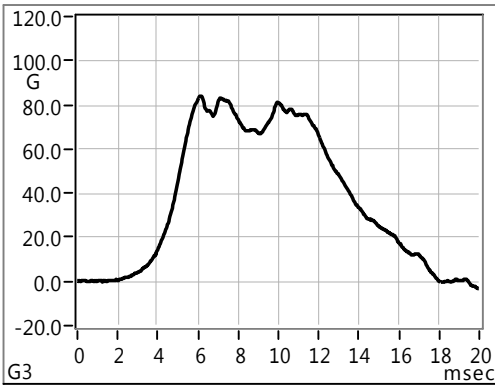
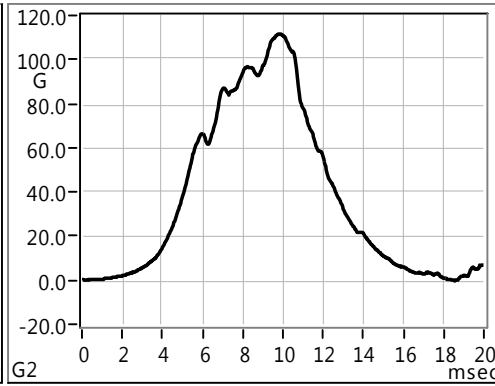
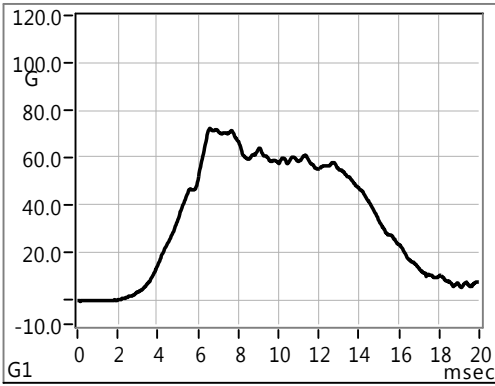
Address : No.605 Shanghai Road, Ludu Town,  
Taicang City, Suzhou, Jiangsu  
Province, China 215412

Helmet Manufacturer : KOV  
Address :

Laboratory Technician name : Wille

Batch Number :

Ref. P.O. Number :



Model : LITIO  
Color : Black  
Size : L(59-60CM)  
Weight : 1511.00 g  
Manufacturing Date : 18 Jan 2024  
Standard Request : FMVSS 218  
Identification Code : 711.16163.002-D  
Headform Model : D.O.T.  
Headform Size : C D.O.T  
Conditioning : Wet  
Laboratory Temperature : 22 deg C  
Laboratory Humidity : 57 %  
Selected Filter Frequency : 1650 Hz  
Maximum Peak G's authorized : 400 G  
Maximum Peak m/s<sup>2</sup> authorized : 3923 m/s<sup>2</sup>  
Drop mass assembly : 5.028 kg  
Time gate flag height : 25.55 mm  
Acc. sensibility (axis Z) : 10.59

Impact #	Peak Acc.(G)	HIC	Velocity IN (m/sec)	Drop Height (cm)	Anvil type	Delta T 150G (msec)	Delta T 200G (msec)	Position	Test Date	Test Time	Friction (%)	PASS or FAIL
5	72.4	245	5.2236	145.0	HEMI	0.00	0.00	LF FRONT	2024-01-18	09:14:36	2.0	Pass
6	111.6	435	5.2253	145.0	HEMI	0.00	0.00	LF FRONT	2024-01-18	09:14:42	2.0	Pass
7	83.9	349	5.2252	145.0	HEMI	0.00	0.00	RT REAR	2024-01-18	09:18:54	2.0	Pass
8	98.2	438	5.2635	145.0	HEMI	0.00	0.00	RT REAR	2024-01-18	09:19:00	1.3	Pass

# DOT Auto – Test results

## Laboratory

**Laboratory** ACT Lab  
**Technician** Terry  
**Temperature** 22  
**Humidity** 57

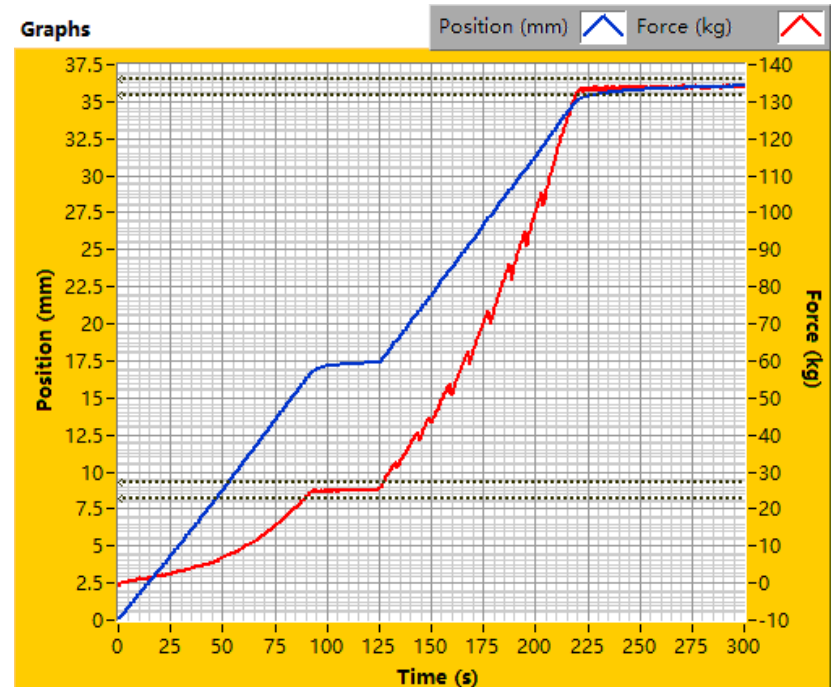
## Sample

**Model** LITIO  
**Color** BLACK  
**Size** L(59-60CM)  
**Weight** 1506  
**Manufacturer** KOV  
**Manuf. Date** 2023.12

## Infos

**Standard** FMVSS No.218  
**Comment** 711.16163.002-A

Graphs



Results

Test	Time Data D/M/Y h:m:s	DL ?	Status	Tar1 (Kg)	Tar1 (S)	Tar2 (Kg)	Tar2 (S)	Delta(Del.1 to Del2) (mm)	Pass/Fail
Test#13	[01/01/01 00:00:01	NO	Valid	22.7	30.0	136.0	120.0	18.6	Pass

# DOT Auto – Test results

## Laboratory

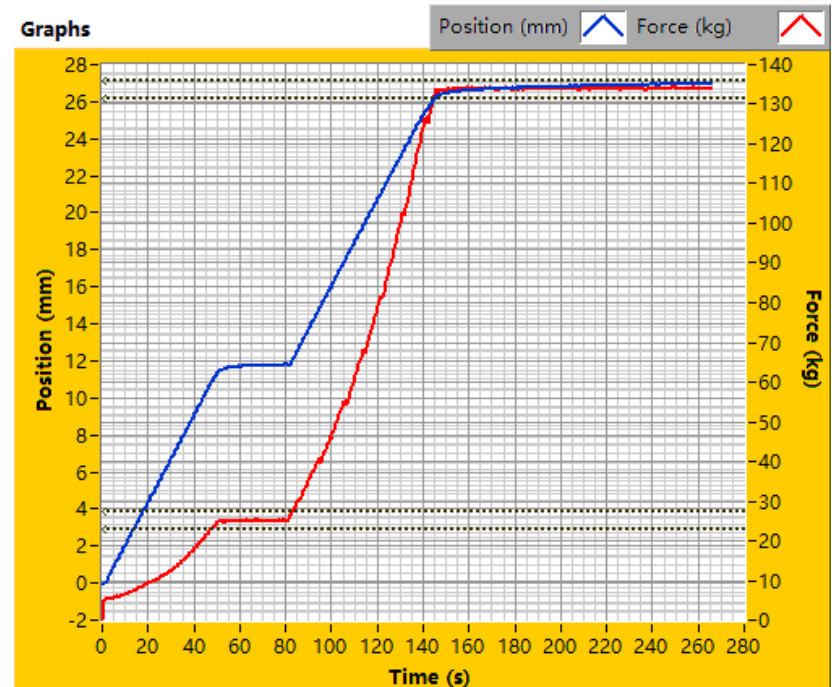
Laboratory ACT Lab  
 Technician Terry  
 Temperature 22  
 Humidity 57

## Sample

Model LITIO  
 Color BLACK  
 Size L(59-60CM)  
 Weight 1507  
 Manufacturer KOV  
 Manuf. Date 2023.12

## Infos

Standard FMVSS No.218  
 Comment 711.16163.002-B



## Results

Test	Time Data D/M/Y h:ms	DL ?	Status	Tar1 (Kg)	Tar1 (S)	Tar2 (Kg)	Tar2 (S)	Delta(Del.1 to Del2) (mm)	Pass/Fail
Test#14	[01/01/01 00:00:01	NO	Valid	22.7	30.0	136.0	120.0	15.0	Pass



# DOT Auto – Test results

## Laboratory

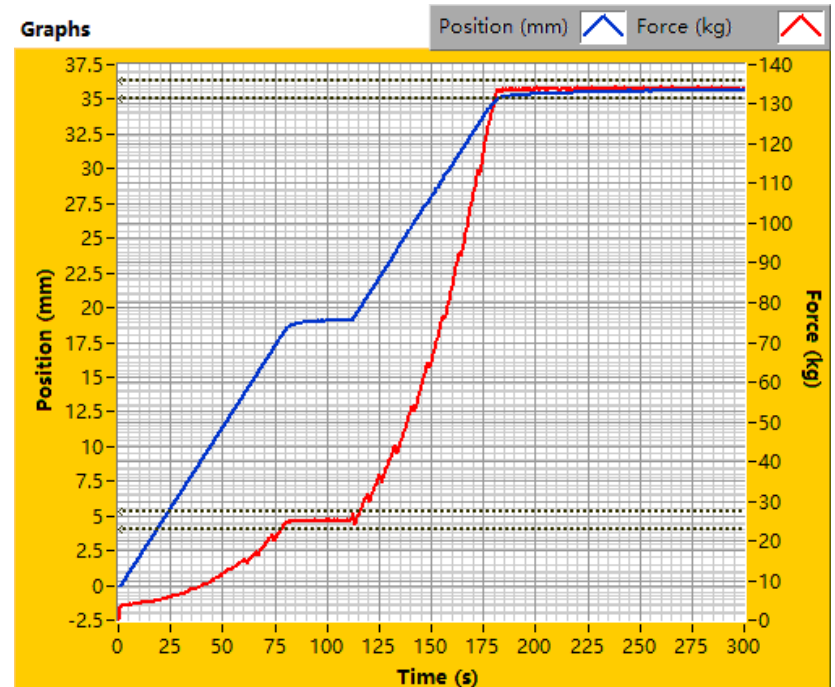
Laboratory ACT Lab  
 Technician Terry  
 Temperature 22  
 Humidity 57

## Sample

Model LITIO  
 Color BLACK  
 Size L(59-60CM)  
 Weight 1507  
 Manufacturer KOV  
 Manuf. Date 2023.12

## Infos

Standard FMVSS No.218  
 Comment 711.16163.002-C



## Results

Test	Time Data D/M/Y h:m:s	DL ?	Status	Tar1 (Kg)	Tar1 (S)	Tar2 (Kg)	Tar2 (S)	Delta(Del.1 to Del2) (mm)	Pass/Fail
Test#15	[01/01/01 00:00:01	NO	Valid	22.7	30.0	136.0	120.0	16.5	Pass

# DOT Auto – Test results

## Laboratory

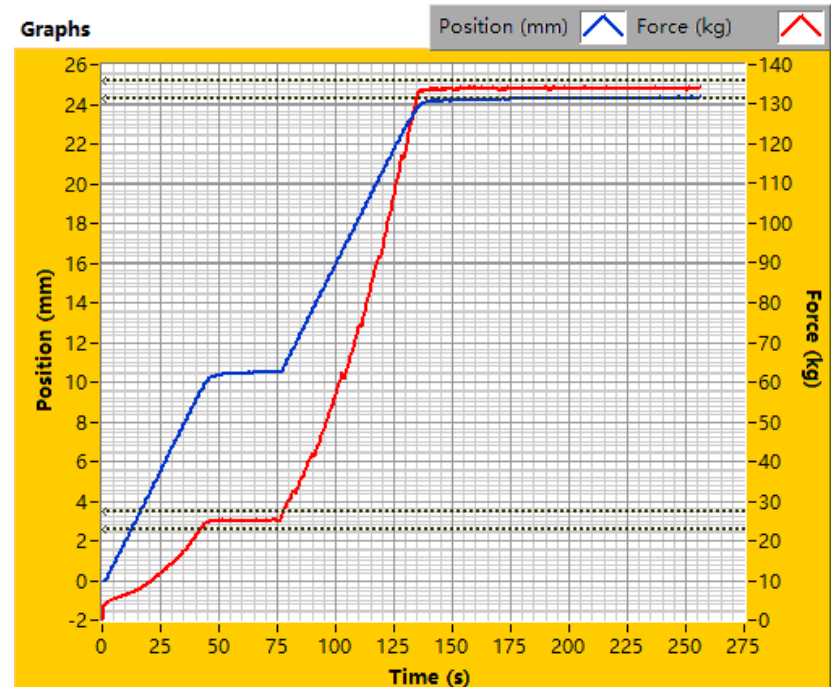
Laboratory ACT Lab  
 Technician Terry  
 Temperature 22  
 Humidity 57

## Sample

Model LITIO  
 Color BLACK  
 Size L(59-60CM)  
 Weight 1511  
 Manufacturer KOV  
 Manuf. Date 2023.12

## Infos

Standard FMVSS No.218  
 Comment 711.16163.002-D



## Results

Test	Time Data D/M/Y h:m:s	DL ?	Status	Tar1 (Kg)	Tar1 (S)	Tar2 (Kg)	Tar2 (S)	Delta(Del.1 to Del2) (mm)	Pass/Fail
Test#16	[01/01/01 00:00:01	NO	Valid	22.7	30.0	136.0	120.0	13.8	Pass

## APPENDIX A

### INTERPRETATIONS OR DEVIATIONS FROM FMVSS 218

7. S6.4 Conditioning: Excess water on the water immersed sample was allowed to drip off before testing to prevent water damage to test equipment.

## APPENDIX B

Contract File No.: 711.16163

Test File: 002

Control Document: Official ACT FMVSS No.218 Report Template TP-07 CN 30 November 2023 Rev.28

SharePoint/GlobalResourceLibrary/Reporting/ReportTemplates/Helmets/FMVSS No.218

Technician: Wille Wang

Test Date: 18 January 2024

## EQUIPMENT LIST AND CALIBRATION SCHEDULES

EQUIPMENT LIST						
Asset Tag	Location	Description of part	Model Number	Serial Number	Verification Interval	Next Verification
H1001	Helmet Room	Fixture	Yellow Tower - 1000_00_MIMAT	NA	NA	NA
H1002	Helmet Room	Fixture	Green Tower - Series 2000	NA	NA	NA
H1011	Helmet Room	Instrument	Impact Machine System DX3000 - Green tower	NA	NA	NA
H1013	Helmet Room	Instrument	CPSC/ASTM Dynamic Strength Charge Amplifier - ATA2001 (Backup)	J72863	Yes	Daily
H1015	Helmet Room	Fixture	CPSC/ASTM Positional Stability Fixture	NA	1 year	4/27/2024
H1017	Helmet Room	Fixture	DOT Retention System Machine - SB033	NA	1 year	4/27/2024
H1034	Helmet Room	Environmental chamber	Water Immersion Container	NA	NA	NA
H1043	Helmet Room	Headform	ISO/EN960 A Partial Headform (Impact)	4272	1 year	5/5/2024
H1044	Helmet Room	Headform	ISO/EN960 C Partial Headform (Impact)	6938	1 year	5/5/2024
H1045	Helmet Room	Headform	ISO/EN960 E Partial Headform (Impact)	4146	1 year	5/5/2024
H1046	Helmet Room	Headform	ISO/EN960 J Partial Headform (Impact)	4148	1 year	5/5/2024
H1047	Helmet Room	Headform	ISO/EN960 M Partial Headform (Impact)	4131	1 year	5/5/2024
H1048	Helmet Room	Headform	ISO/EN960 O Partial Headform (Impact)	4151	1 year	5/5/2024
H1049	Helmet Room	Headform	DOT Small (Impact)	5178	1 year	5/5/2024
H1050	Helmet Room	Headform	DOT Medium (Impact)	5179	1 year	5/5/2024
H1051	Helmet Room	Headform	DOT Large (Impact)	5190	1 year	5/5/2024
H1052	Helmet Room	Drop Mass	CPSC/ASTM Spherical Impactor	NA	1 year	5/5/2024
H1054	Helmet Room	Drop Mass	ASTM/SNELL Chin Bar Impactor	NA	1 year	5/5/2024
H1055	Helmet Room	Anvil	CurbStone - CPSC/ASTM	NA	1 year	5/5/2024
H1056	Helmet Room	Anvil	Cylindrical	NA	1 year	5/5/2024
H1059	Helmet Room	Anvil	Triangular Hazard	NA	1 year	5/5/2024
H1060	Helmet Room	Anvil	Hemispherical - Yellow tower	NA	1 year	5/5/2024
H1062	Helmet Room	Anvil	Flat - Yellow tower	C240812-01	1 year	5/5/2024
H1066	Helmet Room	Fixture	Penetration Magnetic Carriage	NA	1 year	6/25/2024
H1091	Helmet Room	Fixture	40° Up Vision Angle Block	NA	1 year	5/6/2024
H1092	Helmet Room	Clamp	Split Ring Clamp - 119g	NA	1 year	5/6/2024
H1093	Helmet Room	Clamp	Split Ring Clamp - 210g	NA	1 year	5/6/2024
H1094	Helmet Room	Clamp	Split Ring Clamp - 378g	NA	1 year	5/6/2024
H1095	Helmet Room	Clamp	Split Ring Clamp - 451g	NA	1 year	5/6/2024
H1096	Helmet Room	Clamp	Split Ring Clamp - 505g	NA	1 year	5/6/2024
H1097	Helmet Room	Clamp	Split Ring Clamp - 597g	NA	1 year	5/6/2024
H1098	Helmet Room	Clamp	Split Ring Clamp - 1158g	NA	1 year	5/6/2024
H1099	Helmet Room	Anvil	Flat - Green tower	NA	1 year	5/6/2024
H1100	Helmet Room	Anvil	Hemispherical - Green tower	NA	1 year	5/6/2024
H1101	Helmet Room	Headform	DOT Small (Reference)	NA	1 year	4/27/2024
H1102	Helmet Room	Headform	DOT Medium (Reference)	NA	1 year	4/27/2024
H1103	Helmet Room	Headform	DOT Large (Reference)	NA	1 year	4/27/2024
H1105	Helmet Room	Drop Mass	Aluminum Ball Stem - Green tower	NA	1 year	5/6/2024
H1106	Helmet Room	Drop Mass	Steel Ball Stem	NA	1 year	5/6/2024
H1107	Helmet Room	Drop Mass	Magnesium Ball Stem	NA	1 year	5/6/2024
H1123	Helmet Room	Fixture	CPSC/ASTM Roll Off Headform Base Fastened Plate	NA	NA	NA
H1126	Helmet Room	Drop Mass	Complete Pistol Grip - Green tower	NA	1 year	5/6/2024
H1127	Helmet Room	Headform	ISO/EN 960 C Full Headform (Reference)	6947	1 year	4/27/2024
H1128	Helmet Room	Headform	DOT Small (Penetration)	NA	1 year	4/27/2024
H1129	Helmet Room	Headform	DOT Medium (Penetration)	NA	1 year	4/27/2024
H1130	Helmet Room	Headform	DOT Large (Penetration)	NA	1 year	4/27/2024
H1143	Helmet Room	Fixture	DOT Brow Opening 1 Inch Block	NA	1 year	4/28/2024
H1146	Helmet Room	Fixture	DOT Penetration Height Stick	NA	1 year	6/25/2024
H1149	Helmet Room	Mass	Testing Area Preload Ballast	NA	1 year	4/28/2024
H1150	Helmet Room	Drop Mass	10kg Positional Stability Drop Mass	NA	1 year	4/28/2024
H1178	Helmet Room	Drop Mass	Complete Pistol Grip - Yellow tower	NA	1 year	5/6/2024
H1179	Helmet Room	Drop Mass	Aluminum Ball Stem - Yellow tower	NA	1 year	5/6/2024
H1189	Helmet Room	Drop Mass	DOT Penetration Striker Tip	070622-03	1 year	6/25/2024
H1196	Helmet Room	Fixture	DOT Retention Machine Static Load - SB033 (New)	NA	1 year	4/28/2024
H1197	Helmet Room	Fixture	DOT Retention LVDT Calibration Block	NA	1 year	11/9/2024
H1204	Helmet Room	Drop Mass	Complete Pistol Grip - Yellow tower (Backup)	120122-07	1 year	5/6/2024
H1205	Helmet Room	Drop Mass	Ball Stem - Yellow tower (Backup)	NA	1 year	5/6/2024
H1213	Helmet Room	Fixture	CPSC/ASTM Dynamic Retention Strength Fixture	NA	1 year	4/28/2024
H1229	Helmet Room	Fixture	Penetration Tube	NA	1 year	6/25/2024
H1230	Helmet Room	Fixture	Penetration Headform Mount Holder	NA	NA	NA

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**CALIBRATED MEASUREMENT DEVICES**

Asset Tag	Description of part	Model Number	Measuring Range	Accuracy	Serial Number	Last Calibrated On	Calibration Due On
H1003	Instrument	Velocity Gate - Yellow tower	0-8.5m/s	±0.0001m/s	HVTG120120810-1	10/4/2023	10/3/2024
H1004	Instrument	Velocity Gate - Green tower	0-8.5m/s	±0.0001m/s	HVTG120090331-1	1/26/2023	1/25/2024
H1006	Instrument	Accelerometer PCB 353B18 - Yellow & Green tower	±500g	±0.1%	131607	1/26/2023	1/25/2024
H1007	Instrument	Accelerometer PCB 353B18 - Green tower	±500g	≤1%	86079	10/2/2023	10/1/2024
H1009	Fixture	Digital Tape 16' - Yellow tower	0-5.5m	±0.1cm	5027526	11/27/2023	11/26/2024
H1010	Instrument	CCS PC4300 - Green tower	±500g	±0.1%	CCS120090331-1	1/26/2023	1/25/2024
H1012	Instrument	CPSC/ASTM Dynamic Strength LVDT - C20101007753 (Backup)	2 Inch	±0.1%	C20101007753	11/22/2023	11/21/2024
H1014	Instrument	DOT Retention System LVDT - LWE-200	0-200mm	±0.05%	2002572	11/22/2023	11/21/2024
H1025	Fixture	Electronic Scale - BT-6	0-6kg	±0.1g	12230126	6/26/2023	6/25/2024
H1026	Fixture	Laser Table - SB005	0-450mm, 0-20°	±1mm, ±1°	TLTV2KB-20090403-1	11/22/2023	11/21/2024
H1030	Environmental chamber	Oven #1 - 92*9240MBE	0-200°C	±0.1°C	8285	6/26/2023	6/25/2024
H1031	Environmental chamber	Oven #2 - DHG-9426	0-200°C	±0.1°C	1503338018	11/22/2023	11/21/2024
H1032	Environmental chamber	Freezer #1 - DW-25W300	-30--10°C	±0.1°C	BE062100N00B29578VMO	6/26/2023	6/25/2024
H1033	Environmental chamber	Freezer #2 - DW-50W225	-30--10°C	±0.1°C	F8LMJ	11/22/2023	11/21/2024
H1036	Fixture	Hygrothermograph #1 - TH-602F	-30~60°C, 0-100%	±1°C	3238	6/27/2023	6/26/2024
H1057	Anvil	Edge	NA	NA	NA	11/26/2023	11/25/2026
H1058	Anvil	Equestrian Hazard	NA	NA	NA	11/26/2023	11/25/2026
H1061	Anvil	Skate Blade	NA	NA	NA	11/26/2023	11/25/2026
H1063	Fixture	Digital tape - 5m	0-5m	±0.1mm	78223	11/27/2023	11/26/2024
H1064	Instrument	CCS PC4400 - Yellow tower	±500g	±0.1%	CCS120120810-1	1/26/2023	1/25/2024
H1070	Instrument	DOT Retention System Load Cell - 9363-B10-300-20T1	0-300lb	±0.1kg	80310843	6/26/2023	6/25/2024
H1072	Fixture	Hygrothermograph #4 - TH600B	-20~100°C, 0-100%	±1°C	Q/MDS001-2017-2	6/27/2023	6/26/2024
H1073	Fixture	Height Gauge	0-500mm	±0.01mm	8811213838273610	11/22/2023	11/21/2024
H1075	Fixture	Digital Level - SPI TRONIC Pro 360	0-360°	±0.1°	31-038-3	11/27/2023	11/26/2024
H1076	Instrument	Calorifier - CN-111	18-35°C	±0.1°C	NA	11/23/2023	11/22/2024
H1077	Fixture	ACT Tape	0-1.5m	±1mm	NA	11/27/2023	11/26/2024
H1117	Fixture	Helmet Internal Circumference Measure Tool	49-62cm	±1mm	NA	11/26/2023	11/25/2024
H1172	Fixture	Height Measurement Rod #6	600±5mm	±1mm	032216-02	6/24/2022	6/23/2025
H1174	Anvil	MEP Pad	NA	NA	021921-01	2022 yearly	2023 yearly
H1180	Instrument	CPSC/ASTM LVDT & Sensor Box	2 Inch	±0.1%	04140748-001	11/22/2023	11/21/2024
H1184	Instrument	Accelerometer PCB 353B18 - Yellow tower	±500g	≤1%	LW226664	10/2/2023	10/1/2024
H1190	Environmental chamber	Oven - KH-120A	5-250°C	±0.1°C	2201-020	11/22/2023	11/21/2024
H1193	Fixture	I-square	150*100mm	±1mm	SJT-43008	11/27/2023	11/26/2024
H1194	Fixture	Triangular Ruler	190mm	±1mm	SJT-43111	11/27/2023	11/26/2024
H1198	Instrument	LVDT Volfa LWE-200 (Head) - DOT Retention	0-200mm	±0.05%	NA	3/10/2023	3/9/2024
H1199	Instrument	LVDT Volfa LWE-200 - DOT Retention Machine	0-200mm	±0.05%	NA	3/10/2023	3/9/2024
H1200	Instrument	VPG load cell - 9363-B10-500-20T1 - DOT Retention Machine	0-500lb	±0.1kg	90139705	3/10/2023	3/9/2024
H1210	Fixture	Peripheral Vision	105° Both sides	105°	NA	4/27/2023	4/26/2026
H1214	Instrument	DOT Retention System LVDT (Head) - LWE-200	0-50mm	±0.05%	27008-10	4/28/2023	4/27/2024
H1216	Fixture	Digital Vernier Caliper - GLA13S	0-300mm	0-200mm: ±0.03mm; 200-300mm: ±0.04mm	K23D014332	5/17/2023	5/16/2024

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## APPENDIX C PHOTOGRAPHS

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Impact attenuation test apparatus and data acquisition equipment



Retention system test apparatus



DOT headforms (S, M, L) with flat and hemispherical anvils



Penetration test apparatus with adjustable base





High temperature conditioning chamber



High temperature conditioning chamber



Water immersion equipment



Low temperature conditioning chambers







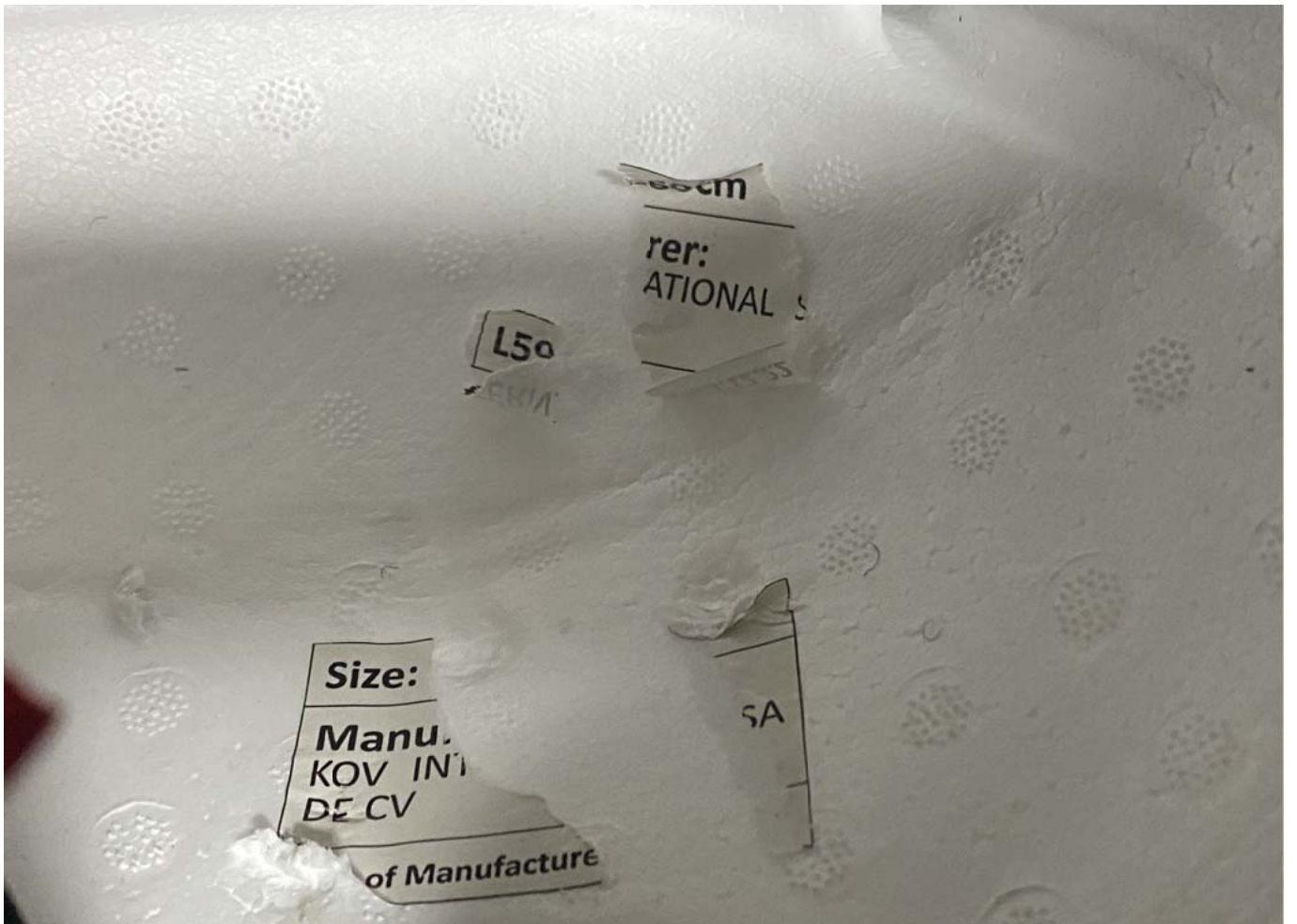
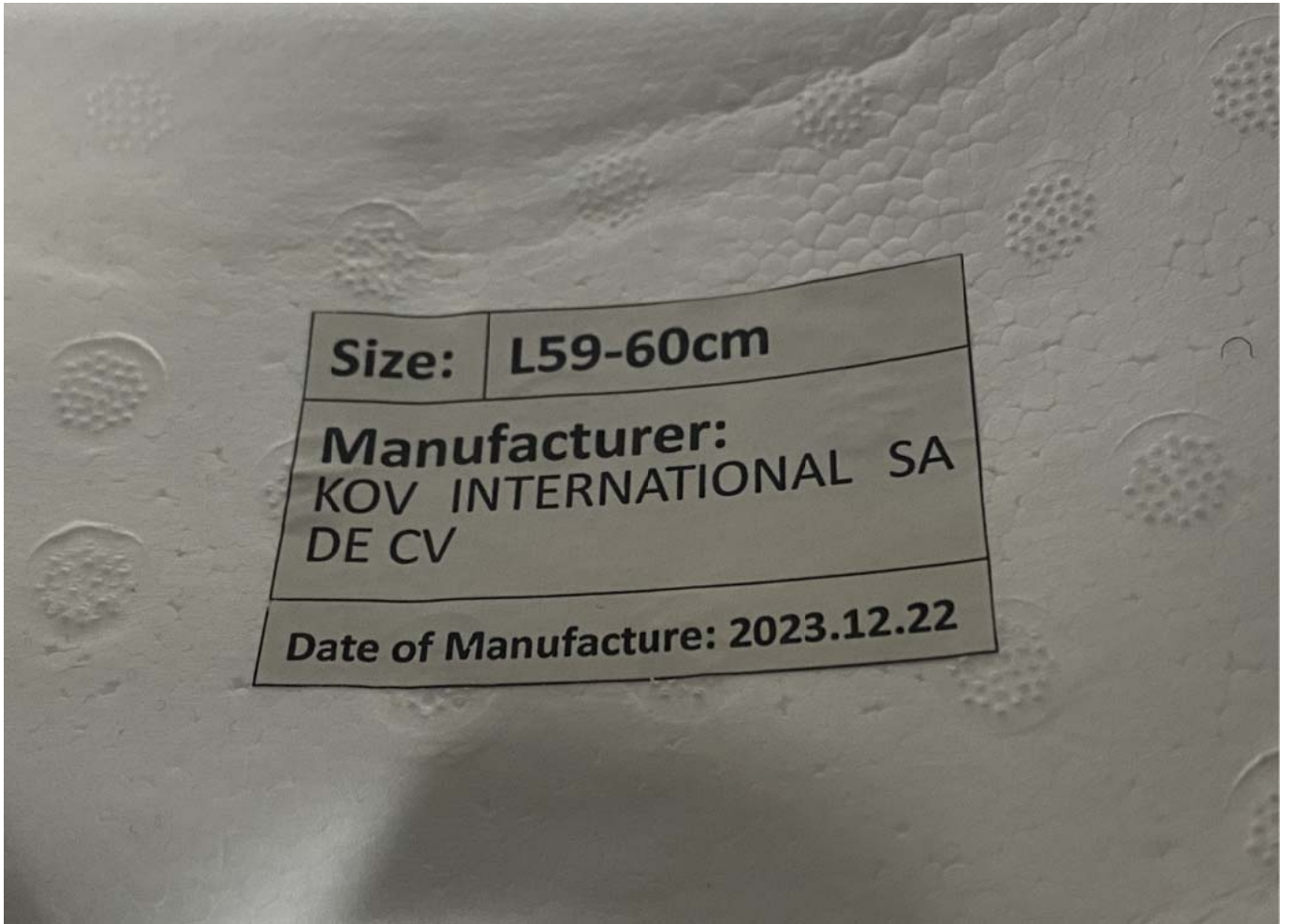












**WARNING**

No helmet can protect the user against all possible impacts, and serious injury or death may occur while wearing helmet. To provide maximum protection. The helmet must:

1. Fit snugly enough to move your skin and scalp when you try to move helmet on your head with chin strap fastened. Test by attempting to move helmet from side to side. And from rear edge upwards and forward. Helmet should not move on your head. It should not roll upwards or come off when lifted from rear edge.
2. Must allow adequate peripheral vision, especially when worn with goggles or eye protection. Tinted goggles or face shields should not be worn at night or in any condition of poor visibility.
3. Helmet can be seriously damaged by some common substances without damage being visible to the user. If helmet experiences a severe blow, return it to the manufacturer for inspection, or destroy it and replace it.
4. Helmet should be replaced after five years. The helmets are made of materials which deteriorate with age and have a limited lifespan.
5. Made no modifications, Fasten helmet securely.
6. Apply only the following: Clean your helmet with mild soap and water or a solution of bicarbonate of soda for the liner and automotive wax or polish for the outer shell.
7. This shell is constructed of ABS plastic, and liner is constructed of polystyrene, Fiberglass.

**IMPORTANT:** Review your helmet owner's manual for additional information on proper fit, care and storage prior to using your helmet.

**DATE OF MANUFACTURE:**

HDV INTERNATIONAL SA DE CV

CARRETERA LEON-LAGOS #2238, INTERIOR 12, COL. LAGUNILLAS, CP.37600, LEON DE LOS ALDAMAS, GUANAJUATO, MEXICO

**L**

**59-60 cm**

**8**





**NOTICE**

1. The report is not effective without the signature of the person(s) authorizing the report (ACT Lab's authorized signatory is John A. Bogler (President)).
2. The report is not valid if altered.
3. Claims have to be made within 15 days after receipt of this report.
4. The results of this test report relate only to the items tested.
5. The results apply to the samples as received.
6. For reports that contain results from external test service providers: Results from external test service providers are supplied by the customer and can affect validity of results.
7. The results of this test report apply ASTM E29:2022 - Rounding Method, unless otherwise requested or noted within the report.
8. Decision rule applied according to "ILAC-G8:09/2019 - Guidelines on the Reporting of Compliance with Specification".

\*\*\*\*\*  
**END OF REPORT**

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