SAFETY COMPLIANCE TESTING FOR FMVSS No. 218 MOTORCYCLE HELMETS

Brand: BRX
Model: N97
Tested Size: L (59-60 cm)
To also include sizes S (55-56 cm) and M (57-58 cm) with same shell and EPS liner size.

Prepared For:

CHINA YANG ZU S.A.C.
MZA.X LOTE. 13 PARQUE IND EL ASESOR
(FRENTE HUACAS DE PURUCHUCO)

Part of the Cotecna Group

Issue Date: 03 December 2025

Final Report: 2487.21624.002

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

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Contract File No.: 2487.21624
Test File: 002

Technician: Edward Wang
Test Date: 02 December 2025

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PURPOSE OF COMPLIANCE TEST

Purpose:

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

CHINA YANG ZU S.A.C.

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 TP 304.

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HELMET DATA

HELMET BRAND NAME: BRX

HELMET MODEL DESIGNATION: N97

HELMET MANUFACTURER: CHINA YANG ZU S.A.C.

HELMET SIZE: L (59-60 cm)

HELMET COVERAGE: Partial: _____ Full: _____ Complete: X

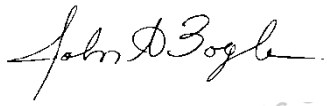
HELMET POSITIONING INDEX: 55 mm

SHELL MATERIAL: Plastic

LINER MATERIAL: Polystyrene

BUCKLE DESCRIPTION: Quick Release Ratchet

HELMET	A Ambient	B Low Temp	C High Temp	D Water Immersed	E Spare
SHELL COLOR/PATTERN	Black	Black	Black	Black	Black
WEIGHT (grams)	1399	1401	1392	1393	1563
MONTH & YEAR OF MANUFACTURE	11/25	11/25	11/25	11/25	11/25

Reviewed by: John Bogler 

COMMENTS:

1. All helmets were received in undamaged condition and were appropriate for testing.
2. Weights listed above for helmets A-D are as tested with face shields and inner sun shields removed.
3. Weight for helmet E is complete with all components in place.
4. This is a complete coverage helmet with modular flip up chin bar.
5. ACT determined the HPI information prior to testing.

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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

COMMENT:

1. S5.6 Labeling: *Client has supplied digital artwork for section 5.6.1 and 5.6.2, ACT has only evaluated that the required content is present.

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

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 ºC ; 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
2487.21624.002-A	Ambient	1	LF FRONT	HEMI	145.0	5.1804	0.00	0.00	90.0	Pass
2487.21624.002-A	Ambient	2	LF FRONT	HEMI	145.0	5.1902	0.00	0.00	132.9	Pass
2487.21624.002-A	Ambient	3	RT REAR	HEMI	145.0	5.1653	0.00	0.00	103.3	Pass
2487.21624.002-A	Ambient	4	RT REAR	HEMI	145.0	5.1287	0.00	0.00	131.5	Pass
2487.21624.002-A	Ambient	5	RT FRONT	FLAT	192.0	6.0351	2.14	0.00	178.5	Pass
2487.21624.002-A	Ambient	6	RT FRONT	FLAT	192.0	6.0045	2.60	1.12	206.2	Pass
2487.21624.002-A	Ambient	7	LF REAR	FLAT	192.0	6.0141	2.34	0.00	185.4	Pass
2487.21624.002-A	Ambient	8	LF REAR	FLAT	192.0	6.0451	2.55	0.79	205.3	Pass
2487.21624.002-B	Cold	1	LF FRONT	HEMI	145.0	5.1738	0.00	0.00	103.8	Pass
2487.21624.002-B	Cold	2	LF FRONT	HEMI	145.0	5.1820	1.21	0.51	217.7	Pass
2487.21624.002-B	Cold	3	RT REAR	HEMI	145.0	5.2025	0.00	0.00	112.6	Pass
2487.21624.002-B	Cold	4	RT REAR	HEMI	145.0	5.2006	0.83	0.00	153.6	Pass
2487.21624.002-B	Cold	5	RT FRONT	FLAT	192.0	5.9914	2.56	0.00	186.8	Pass
2487.21624.002-B	Cold	6	RT FRONT	FLAT	192.0	5.9728	2.61	1.84	233.9	Pass
2487.21624.002-B	Cold	7	LF REAR	FLAT	192.0	6.0290	2.70	0.00	191.9	Pass
2487.21624.002-B	Cold	8	LF REAR	FLAT	192.0	5.9676	2.54	1.78	228.8	Pass
2487.21624.002-C	Hot	1	LF FRONT	HEMI	145.0	5.1885	0.00	0.00	101.5	Pass
2487.21624.002-C	Hot	2	LF FRONT	HEMI	145.0	5.2355	1.28	0.94	318.8	Pass
2487.21624.002-C	Hot	3	RT REAR	HEMI	145.0	5.1647	0.00	0.00	98.3	Pass
2487.21624.002-C	Hot	4	RT REAR	HEMI	145.0	5.2090	0.87	0.00	165.1	Pass
2487.21624.002-C	Hot	5	RT FRONT	FLAT	192.0	6.0057	1.73	0.00	165.6	Pass
2487.21624.002-C	Hot	6	RT FRONT	FLAT	192.0	5.9959	2.65	1.04	208.0	Pass
2487.21624.002-C	Hot	7	LF REAR	FLAT	192.0	6.0155	2.60	0.00	180.4	Pass
2487.21624.002-C	Hot	8	LF REAR	FLAT	192.0	6.0189	2.51	0.56	203.0	Pass
2487.21624.002-D	Wet	1	LF FRONT	HEMI	145.0	5.1997	0.00	0.00	95.9	Pass
2487.21624.002-D	Wet	2	LF FRONT	HEMI	145.0	5.1794	1.13	0.58	232.0	Pass
2487.21624.002-D	Wet	3	RT REAR	HEMI	145.0	5.2049	0.00	0.00	109.3	Pass
2487.21624.002-D	Wet	4	RT REAR	HEMI	145.0	5.1528	0.00	0.00	149.5	Pass
2487.21624.002-D	Wet	5	RT FRONT	FLAT	192.0	5.9721	2.32	0.00	168.8	Pass
2487.21624.002-D	Wet	6	RT FRONT	FLAT	192.0	5.9790	2.50	1.56	218.7	Pass
2487.21624.002-D	Wet	7	LF REAR	FLAT	192.0	6.0127	2.64	0.00	169.8	Pass
2487.21624.002-D	Wet	8	LF REAR	FLAT	192.0	6.0137	2.66	0.24	202.0	Pass

Contract File No.: 2487.21624
Test File: 002

Technician: Edward Wang
Test Date: 02 December 2025

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 ± 0.1 mm (0.02 ± 0.004 in.), included angle of 60º ± 0.5°, hardness minimum of 60 Rockwell "C" Scale and a cone height of not less than 3.8 ± 0.038 cm (1.5 ± 0.015 in.).

HEIGHT OF FALL: 300 cm ± 1.5 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 Right	X		AMBIENT
3	B	Crown	X		LOW TEMPERATURE
4	B	Rear Right	X		LOW TEMPERATURE
5	C	Crown	X		HIGH TEMPERATURE
6	C	Rear Right	X		HIGH TEMPERATURE
7	D	Crown	X		WATER IMMERSED
8	D	Rear Right	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	2.06
B	LOW TEMPERATURE	1.56
C	HIGH TEMPERATURE	1.87
D	WATER IMMERSED	2.37

PERIPHERAL VISION

CONFIGURATION - Paragraph S5.4 - Helmet shall provide a minimum peripheral vision of 105º 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	> 105º	Pass
BROW OPENING	> 2.5 cm (1 inch)	Pass

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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	39.04 mm

COMMENT:

1. The projection is greater than 5 mm in height but is loosely attached to the shell as it breaks away when impacted with the forces equivalent to those produced by the impact attenuation test and therefore deemed non-rigid.

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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:

1. S5.6 Labeling: *Client has supplied digital artwork for section 5.6.1. ACT has only evaluated that the required content is present; the additional requirements for: formatting, appearance, and permanency were not evaluated.

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:

1. S5.6 Labeling: *Client has supplied digital artwork for section 5.6.2. ACT has only evaluated that the required content is present; the additional requirements for: formatting, appearance, and permanency were not evaluated.

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TEST DATA

Uni-Axial Calibration

M.E.P. Pad Model: 1 MEP

Helmet Manufacturer :

Address :

Laboratory Temperature: 22 deg C

Laboratory Humidit: 57 %

Selected Filter Frequency: 1000 Hz

Acc. sensitivity (axis Z) : 10.59 mV/G

Acc. sensitivity (axis X) : 10.00 mV/G

Acc. sensitivity (axis Y) : 10.00 mV/G

Drop Device : Spherical Impactor (Uni-Axial)

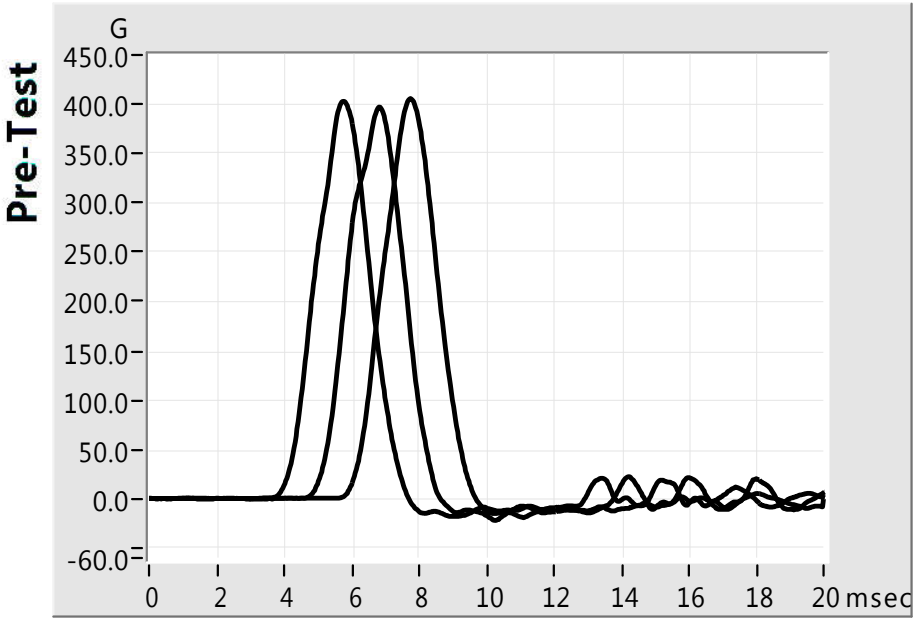
Testing Laboratory : Taicang ACT Lab

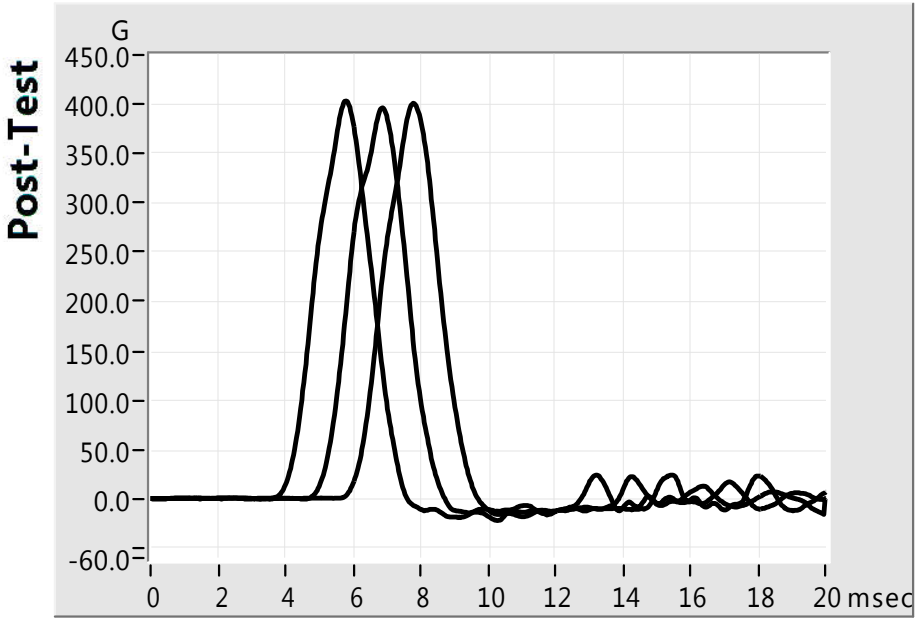
Address : No. 35 Zhenghe Road, Ludu Town, Taicang City, Suzhou, Jiangsu Province, China 215412

Drop mass assembly : 4.966 kg Time gate flag height : 25.56 mm

Laboratory Technician name: Wille

Calibration peak : 402.5 G +/- 22.50 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	402.7	3082	4.1696	90.0	MEP	2.14	1.82	0/0	2025-12-02	08:44:21	0.7	Pass
	2	396.7	3075	4.1582	90.0	MEP	2.16	1.87	0/0	2025-12-02	08:45:17	1.0	Pass
	3	405.5	3102	4.1228	90.0	MEP	2.14	1.81	0/0	2025-12-02	08:46:10	1.8	Pass
Post-Test	1	403.2	3083	4.1939	90.0	MEP	2.17	1.86	0/0	2025-12-02	16:36:31	0.2	Pass
	2	396.3	3114	4.1409	90.0	MEP	2.14	1.85	0/0	2025-12-02	16:37:33	1.4	Pass
	3	400.9	3060	4.1284	90.0	MEP	2.14	1.83	0/0	2025-12-02	16:38:31	1.7	Pass

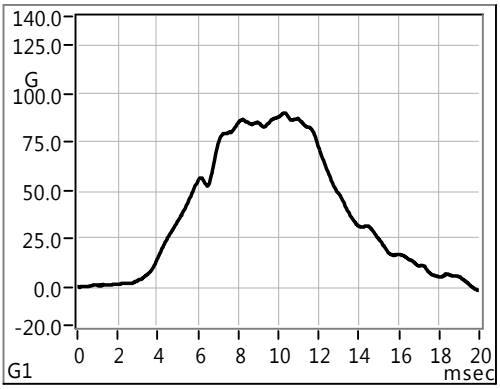
Curve impact #2 : shift of 1ms
Curve impact #3 : shift of 2ms

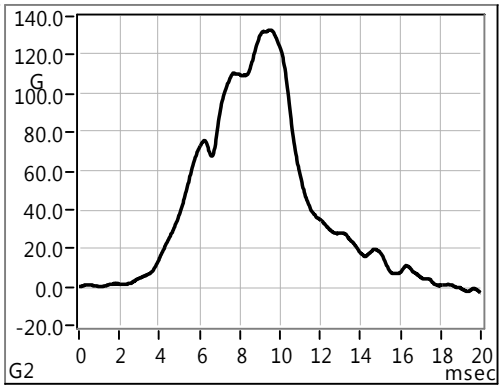
Impact Uni-Axial

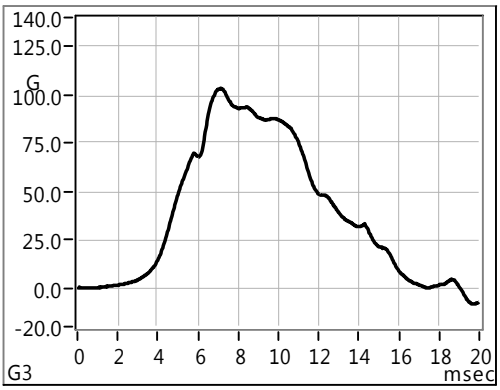
Testing Laboratory : Taicang ACT Lab
Address : No. 35 Zhenghe Road, Ludu Town, Taicang City, Suzhou, Jiangsu Province, China 215412

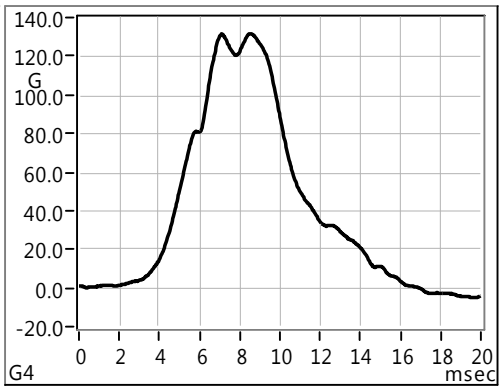
Helmet Manufacturer :
Address :

Laboratory Technician name : Wille
Batch Number :
Ref. P.O. Number :









Model : N97
Color : Black
Size : L(59-60CM)
Weight : 1399.00 g
Manufacturing Date : 01 Dec 2025
Standard Request : FMVSS 218
Identification Code : 2487.21624.002-A
Headform Model : D.O.T.
Headform Size : C D.O.T
Conditioning : Ambiant
Laboratory Temperature : 22 deg C
Laboratory Humidity : 57 %
Selected Filter Frequency : 1650 Hz
Maximum Peak G's authorized : 400 G
Maximum Peak m/s2 authorized : 3923 m/s2
Drop mass assembly : 4.966 kg
Time gate flag height : 25.56 mm
Acc. sensibility (axis Z) : 10.59

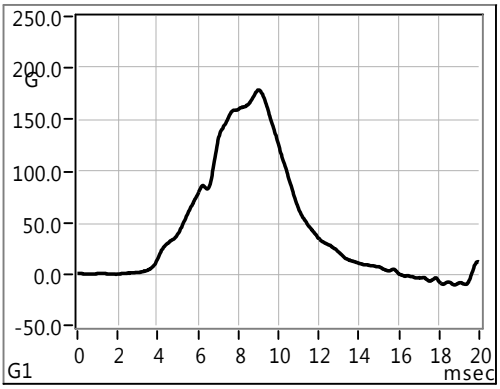
Impact #	Peak Acc.(G)	HIC	Velocity IN (m/sec)	Drop Height (cm)	Anvil type	Delta T 150G (msec)	Delta T 200G (msec)	Position	Test Date	Test Time	Friction (%)	PASS or FAIL
1	90.0	361	5.1804	145.0	HEMI	0.00	0.00	LF FRONT	2025-12-02	10:43:26	2.9	Pass
2	132.9	544	5.1902	145.0	HEMI	0.00	0.00	LF FRONT	2025-12-02	10:43:37	2.7	Pass
3	103.3	417	5.1653	145.0	HEMI	0.00	0.00	RT REAR	2025-12-02	10:56:38	3.1	Pass
4	131.5	621	5.1287	145.0	HEMI	0.00	0.00	RT REAR	2025-12-02	10:56:44	3.8	Pass

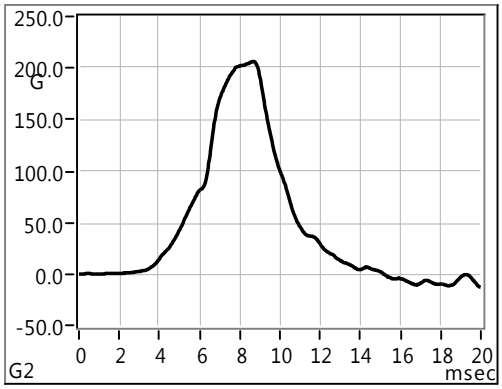
Impact Uni-Axial

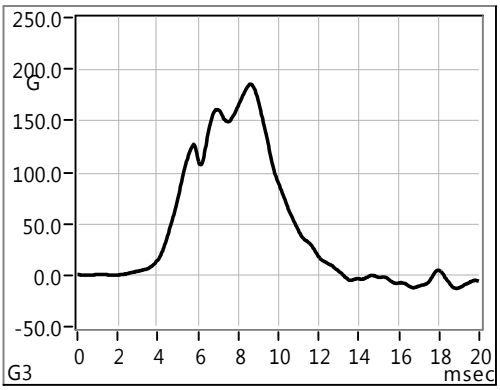
Testing Laboratory : Taicang ACT Lab
Address : No. 35 Zhenghe Road, Ludu Town, Taicang City, Suzhou, Jiangsu Province, China 215412

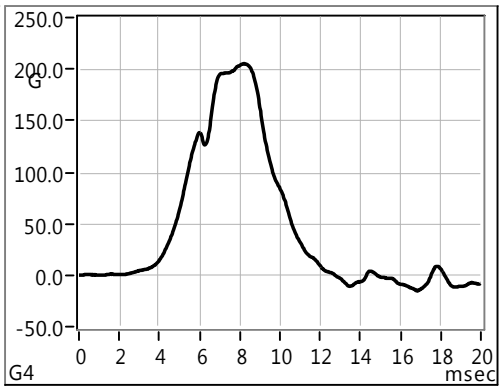
Helmet Manufacturer :
Address :

Laboratory Technician name : Wille
Batch Number :
Ref. P.O. Number :









Model : N97
Color : Black
Size : L(59-60CM)
Weight : 1399.00 g
Manufacturing Date : 01 Dec 2025
Standard Request : FMVSS 218
Identification Code : 2487.21624.002-A
Headform Model : D.O.T.
Headform Size : C D.O.T
Conditioning : Ambiant
Laboratory Temperature : 22 deg C
Laboratory Humidity : 57 %
Selected Filter Frequency : 1650 Hz
Maximum Peak G's authorized : 400 G
Maximum Peak m/s2 authorized : 3923 m/s2
Drop mass assembly : 4.966 kg
Time gate flag height : 25.56 mm
Acc. sensibility (axis Z) : 10.59

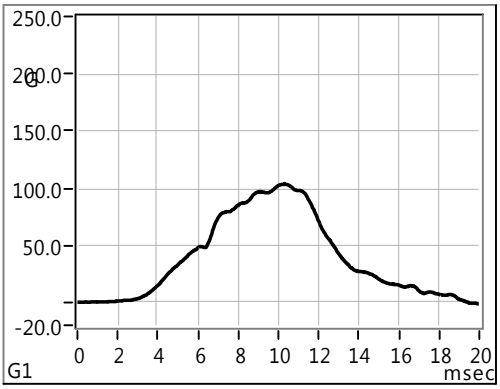
Impact #	Peak Acc.(G)	HIC	Velocity IN (m/sec)	Drop Height (cm)	Anvil type	Delta T 150G (msec)	Delta T 200G (msec)	Position	Test Date	Test Time	Friction (%)	PASS or FAIL
5	178.5	1001	6.0351	192.0	FLAT	2.14	0.00	RT FRONT	2025-12-02	11:05:12	1.7	Pass
6	206.2	1355	6.0045	192.0	FLAT	2.60	1.12	RT FRONT	2025-12-02	11:05:31	2.2	Pass
7	185.4	1170	6.0141	192.0	FLAT	2.34	0.00	LF REAR	2025-12-02	11:16:45	2.0	Pass
8	205.3	1454	6.0451	192.0	FLAT	2.55	0.79	LF REAR	2025-12-02	11:16:57	1.5	Pass

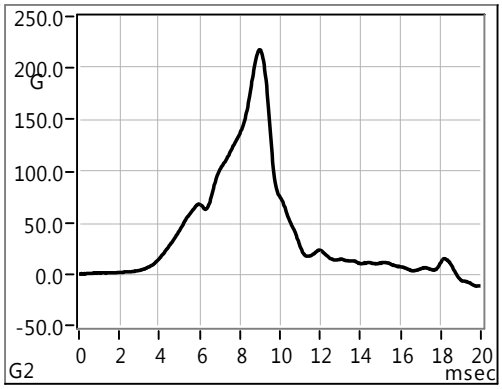
Impact Uni-Axial

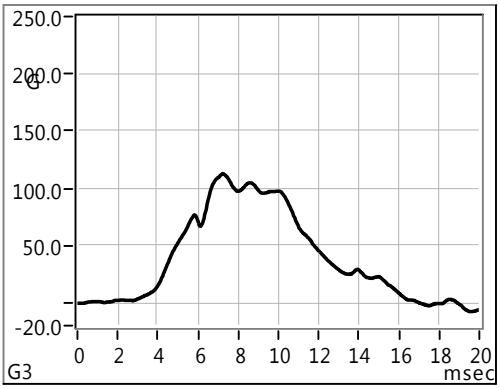
Testing Laboratory : Taicang ACT Lab
Address : No. 35 Zhenghe Road, Ludu Town, Taicang City, Suzhou, Jiangsu Province, China 215412

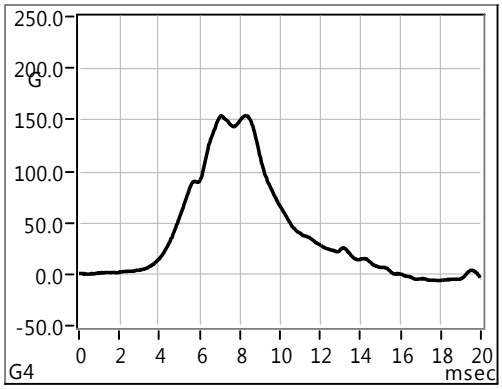
Helmet Manufacturer :
Address :

Laboratory Technician name : Wille
Batch Number :
Ref. P.O. Number :









Model : N97
Color : Black
Size : L(59-60CM)
Weight : 1401.00 g
Manufacturing Date : 01 Dec 2025
Standard Request : FMVSS 218
Identification Code : 2487.21624.002-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/s2 authorized : 3923 m/s2
Drop mass assembly : 4.966 kg
Time gate flag height : 25.56 mm
Acc. sensibility (axis Z) : 10.59

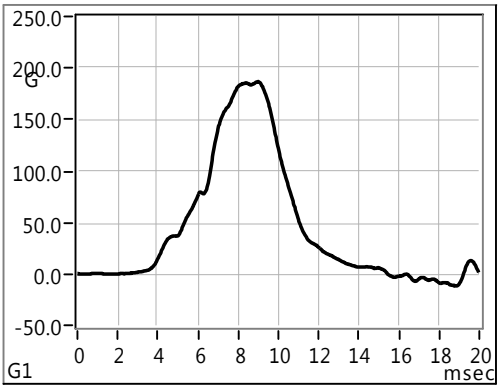
Impact #	Peak Acc.(G)	HIC	Velocity IN (m/sec)	Drop Height (cm)	Anvil type	Delta T 150G (msec)	Delta T 200G (msec)	Position	Test Date	Test Time	Friction (%)	PASS or FAIL
1	103.8	417	5.1738	145.0	HEMI	0.00	0.00	LF FRONT	2025-12-02	10:41:04	3.0	Pass
2	217.7	772	5.1820	145.0	HEMI	1.21	0.51	LF FRONT	2025-12-02	10:41:18	2.8	Pass
3	112.6	475	5.2025	145.0	HEMI	0.00	0.00	RT REAR	2025-12-02	10:54:04	2.4	Pass
4	153.6	726	5.2006	145.0	HEMI	0.83	0.00	RT REAR	2025-12-02	10:54:11	2.5	Pass

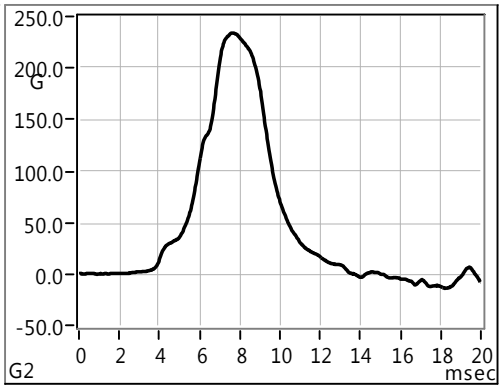
Impact Uni-Axial

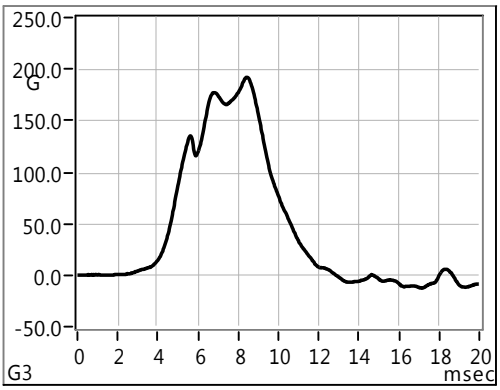
Testing Laboratory : Taicang ACT Lab
Address : No. 35 Zhenghe Road, Ludu Town, Taicang City, Suzhou, Jiangsu Province, China 215412

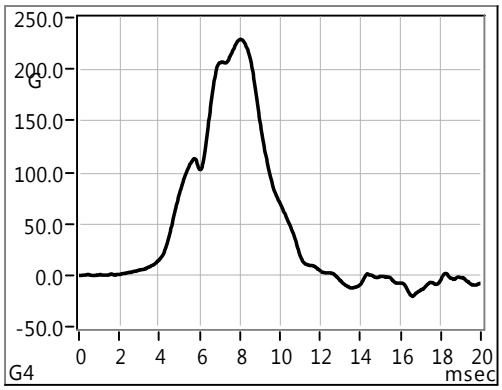
Helmet Manufacturer :
Address :

Laboratory Technician name : Wille
Batch Number :
Ref. P.O. Number :









Model : N97
Color : Black
Size : L(59-60CM)
Weight : 1401.00 g
Manufacturing Date : 01 Dec 2025
Standard Request : FMVSS 218
Identification Code : 2487.21624.002-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/s2 authorized : 3923 m/s2
Drop mass assembly : 4.966 kg
Time gate flag height : 25.56 mm
Acc. sensibility (axis Z) : 10.59

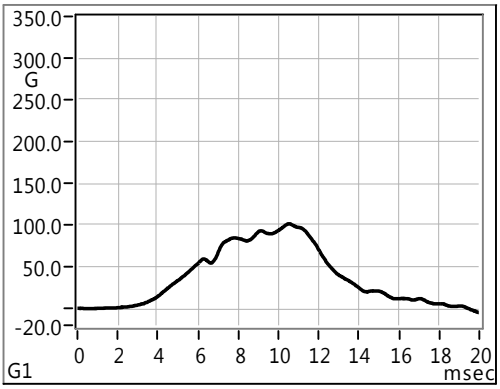
Impact #	Peak Acc.(G)	HIC	Velocity IN (m/sec)	Drop Height (cm)	Anvil type	Delta T 150G (msec)	Delta T 200G (msec)	Position	Test Date	Test Time	Friction (%)	PASS or FAIL
5	186.8	1135	5.9914	192.0	FLAT	2.56	0.00	RT FRONT	2025-12-02	11:03:01	2.4	Pass
6	233.9	1669	5.9728	192.0	FLAT	2.61	1.84	RT FRONT	2025-12-02	11:03:19	2.7	Pass
7	191.9	1319	6.0290	192.0	FLAT	2.70	0.00	LF REAR	2025-12-02	11:13:48	1.8	Pass
8	228.8	1506	5.9676	192.0	FLAT	2.54	1.78	LF REAR	2025-12-02	11:14:02	2.8	Pass

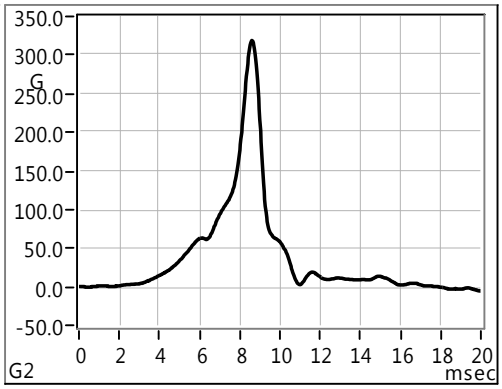
Impact Uni-Axial

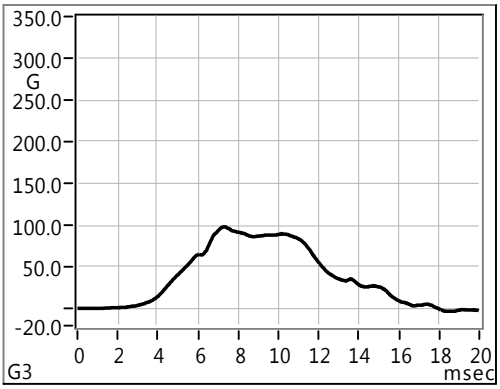
Testing Laboratory : Taicang ACT Lab
Address : No. 35 Zhenghe Road, Ludu Town, Taicang City, Suzhou, Jiangsu Province, China 215412

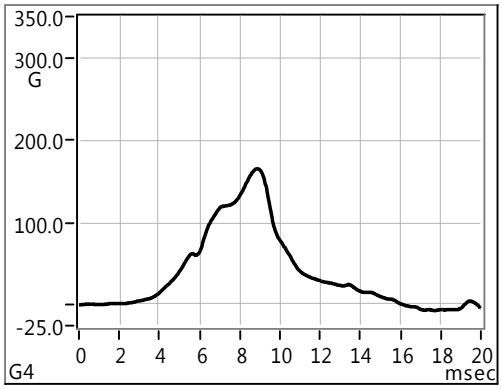
Helmet Manufacturer :
Address :

Laboratory Technician name : Wille
Batch Number :
Ref. P.O. Number :









Model : N97
Color : Black
Size : L(59-60CM)
Weight : 1392.00 g
Manufacturing Date : 01 Dec 2025
Standard Request : FMVSS 218
Identification Code : 2487.21624.002-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/s2 authorized : 3923 m/s2
Drop mass assembly : 4.966 kg
Time gate flag height : 25.56 mm
Acc. sensibility (axis Z) : 10.59

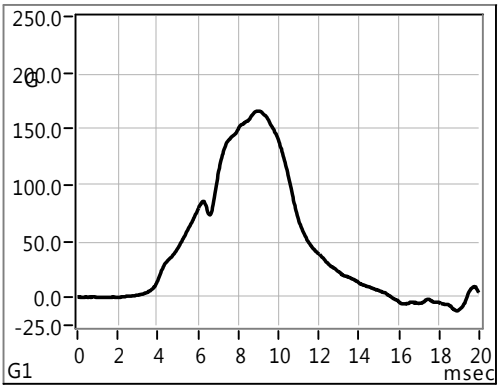
Impact #	Peak Acc.(G)	HIC	Velocity IN (m/sec)	Drop Height (cm)	Anvil type	Delta T 150G (msec)	Delta T 200G (msec)	Position	Test Date	Test Time	Friction (%)	PASS or FAIL
1	101.5	389	5.1885	145.0	HEMI	0.00	0.00	LF FRONT	2025-12-02	10:42:21	2.7	Pass
2	318.8	1179	5.2355	145.0	HEMI	1.28	0.94	LF FRONT	2025-12-02	10:42:33	1.8	Pass
3	98.3	401	5.1647	145.0	HEMI	0.00	0.00	RT REAR	2025-12-02	10:55:21	3.2	Pass
4	165.1	670	5.2090	145.0	HEMI	0.87	0.00	RT REAR	2025-12-02	10:55:29	2.3	Pass

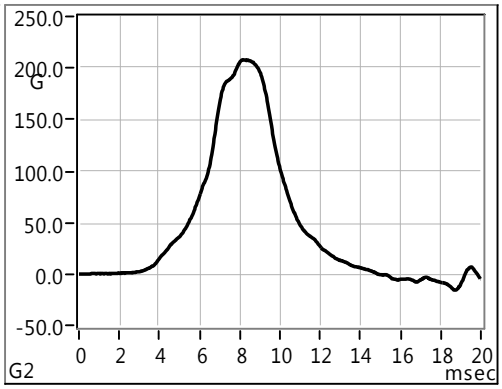
Impact Uni-Axial

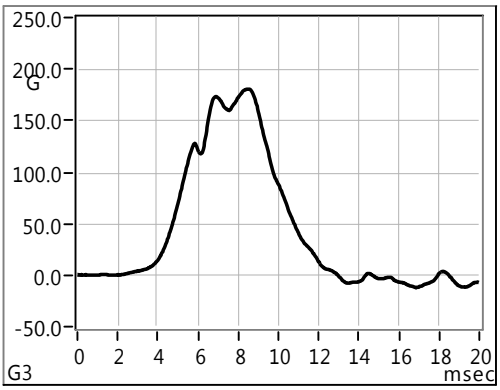
Testing Laboratory : Taicang ACT Lab
Address : No. 35 Zhenghe Road, Ludu Town, Taicang City, Suzhou, Jiangsu Province, China 215412

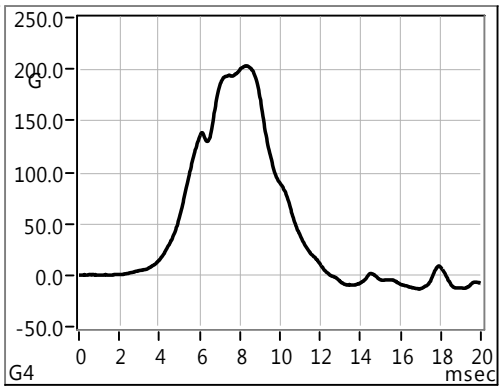
Helmet Manufacturer :
Address :

Laboratory Technician name : Wille
Batch Number :
Ref. P.O. Number :









Model : N97
Color : Black
Size : L(59-60CM)
Weight : 1392.00 g
Manufacturing Date : 01 Dec 2025
Standard Request : FMVSS 218
Identification Code : 2487.21624.002-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/s2 authorized : 3923 m/s2
Drop mass assembly : 4.966 kg
Time gate flag height : 25.56 mm
Acc. sensibility (axis Z) : 10.59

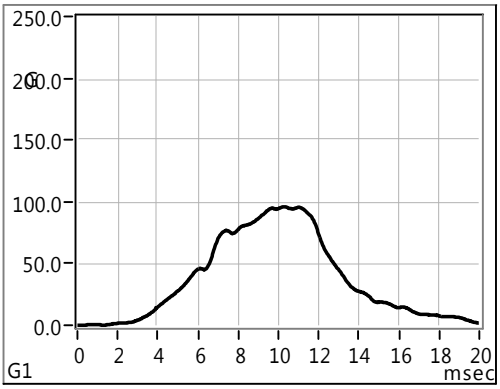
Impact #	Peak Acc.(G)	HIC	Velocity IN (m/sec)	Drop Height (cm)	Anvil type	Delta T 150G (msec)	Delta T 200G (msec)	Position	Test Date	Test Time	Friction (%)	PASS or FAIL
5	165.6	928	6.0057	192.0	FLAT	1.73	0.00	RT FRONT	2025-12-02	11:04:11	2.1	Pass
6	208.0	1386	5.9959	192.0	FLAT	2.65	1.04	RT FRONT	2025-12-02	11:04:22	2.3	Pass
7	180.4	1213	6.0155	192.0	FLAT	2.60	0.00	LF REAR	2025-12-02	11:15:30	2.0	Pass
8	203.0	1403	6.0189	192.0	FLAT	2.51	0.56	LF REAR	2025-12-02	11:15:39	1.9	Pass

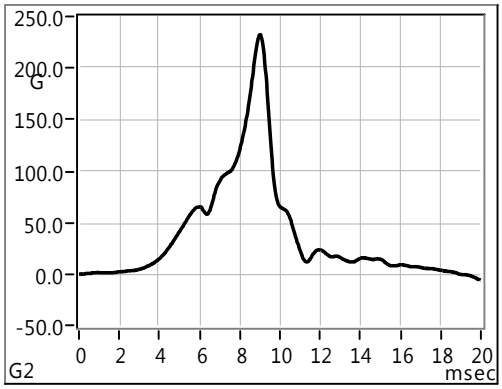
Impact Uni-Axial

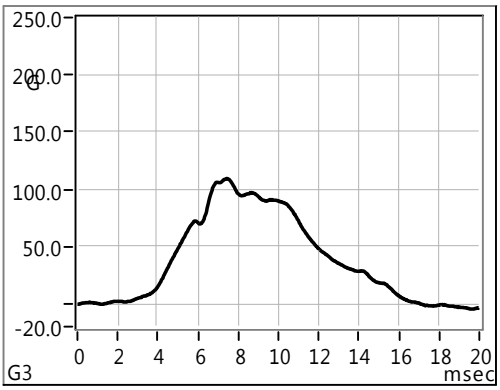
Testing Laboratory : Taicang ACT Lab
Address : No. 35 Zhenghe Road, Ludu Town, Taicang City, Suzhou, Jiangsu Province, China 215412

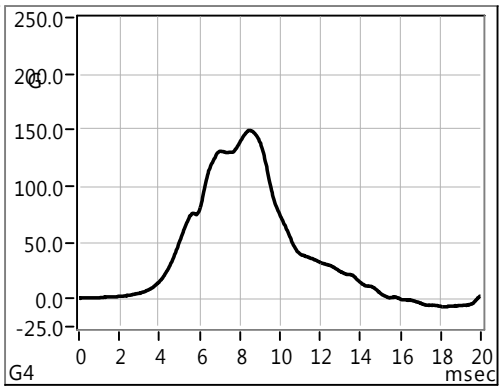
Helmet Manufacturer :
Address :

Laboratory Technician name : Wille
Batch Number :
Ref. P.O. Number :









Model : N97
Color : Black
Size : L(59-60CM)
Weight : 1393.00 g
Manufacturing Date : 01 Dec 2025
Standard Request : FMVSS 218
Identification Code : 2487.21624.002-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/s2 authorized : 3923 m/s2
Drop mass assembly : 4.966 kg
Time gate flag height : 25.56 mm
Acc. sensibility (axis Z) : 10.59

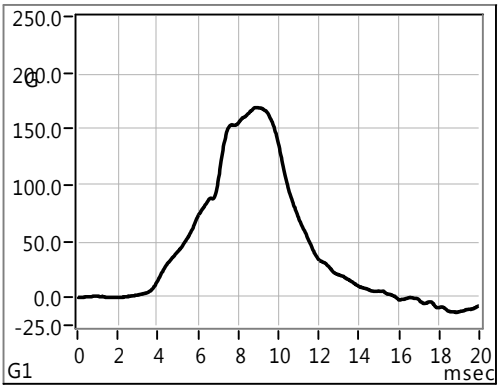
Impact #	Peak Acc.(G)	HIC	Velocity IN (m/sec)	Drop Height (cm)	Anvil type	Delta T 150G (msec)	Delta T 200G (msec)	Position	Test Date	Test Time	Friction (%)	PASS or FAIL
1	95.9	370	5.1997	145.0	HEMI	0.00	0.00	LF FRONT	2025-12-02	10:44:14	2.5	Pass
2	232.0	697	5.1794	145.0	HEMI	1.13	0.58	LF FRONT	2025-12-02	10:44:26	2.9	Pass
3	109.3	445	5.2049	145.0	HEMI	0.00	0.00	RT REAR	2025-12-02	10:57:14	2.4	Pass
4	149.5	674	5.1528	145.0	HEMI	0.00	0.00	RT REAR	2025-12-02	10:57:20	3.4	Pass

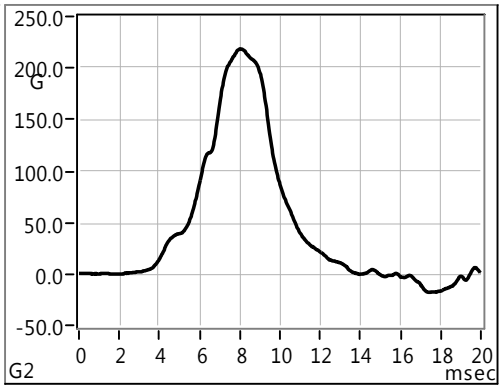
Impact Uni-Axial

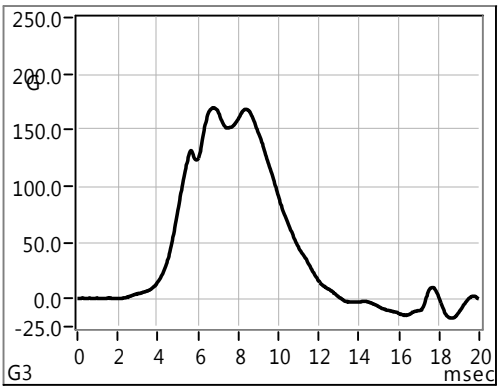
Testing Laboratory : Taicang ACT Lab
Address : No. 35 Zhenghe Road, Ludu Town, Taicang City, Suzhou, Jiangsu Province, China 215412

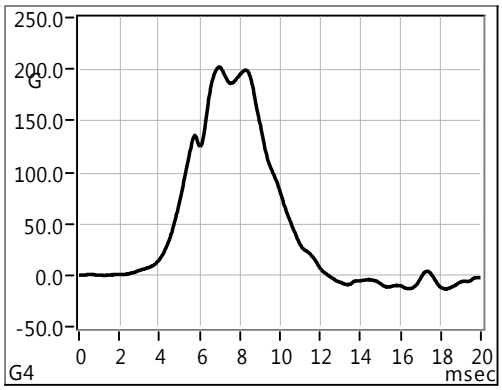
Helmet Manufacturer :
Address :

Laboratory Technician name : Wille
Batch Number :
Ref. P.O. Number :



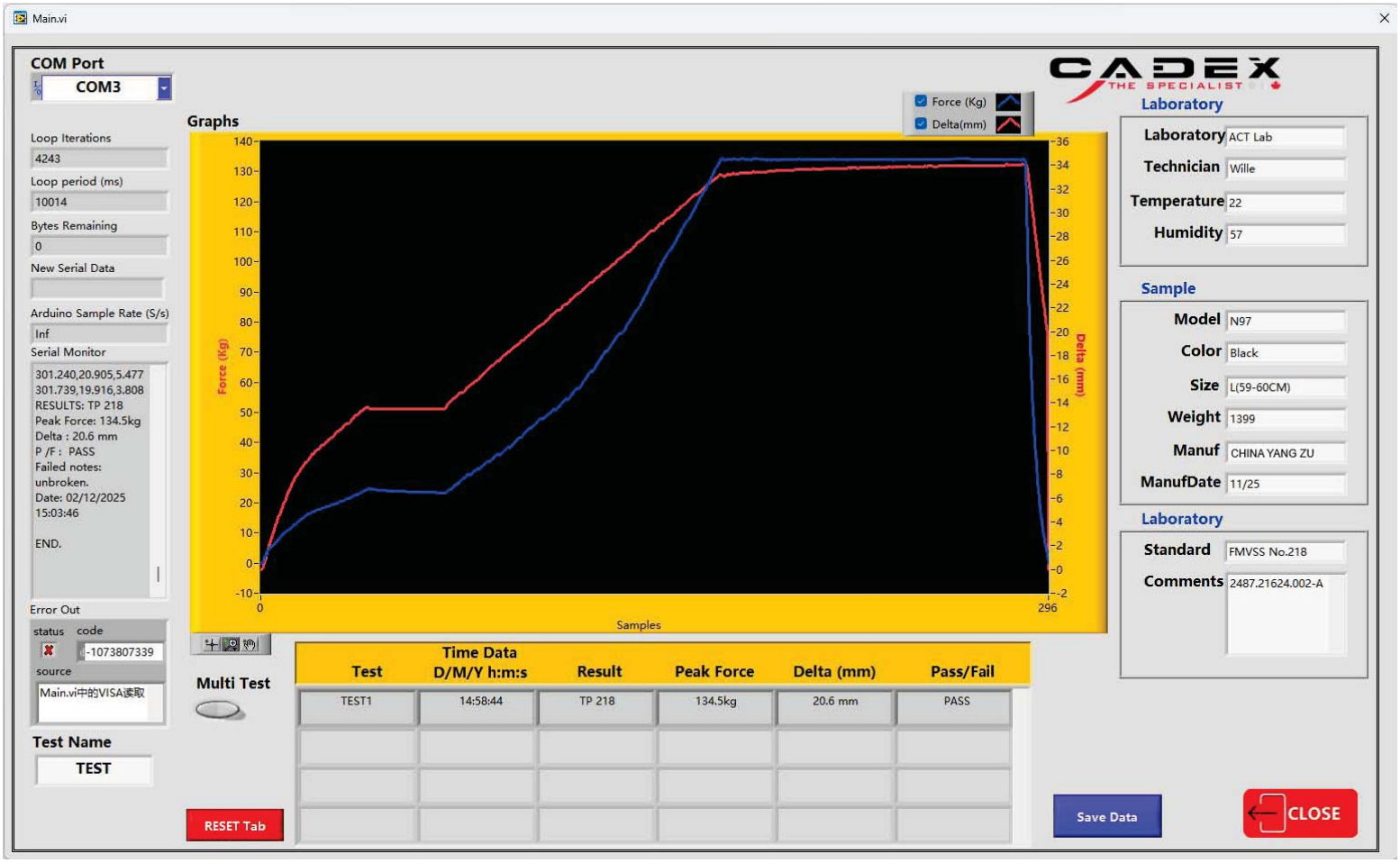


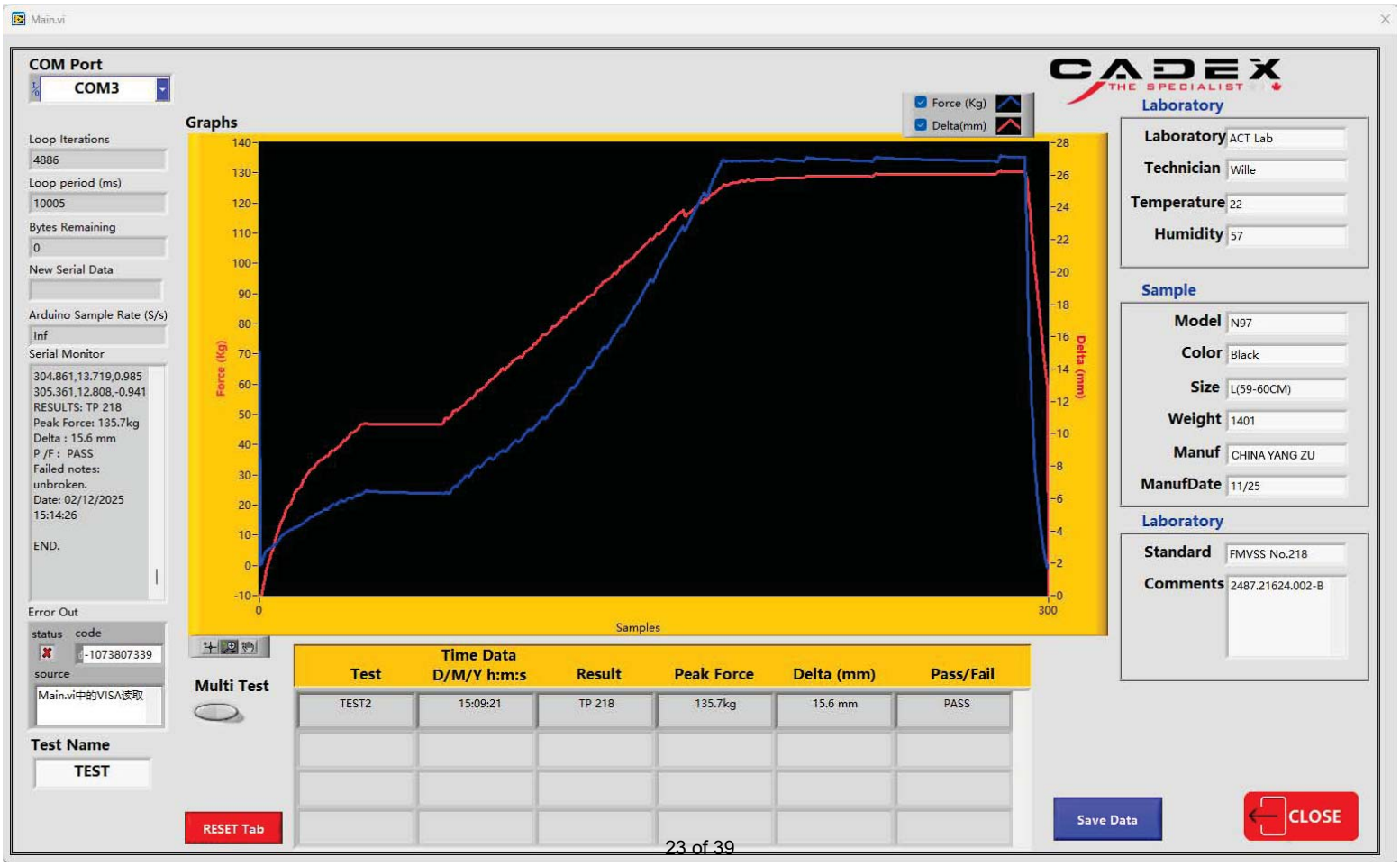


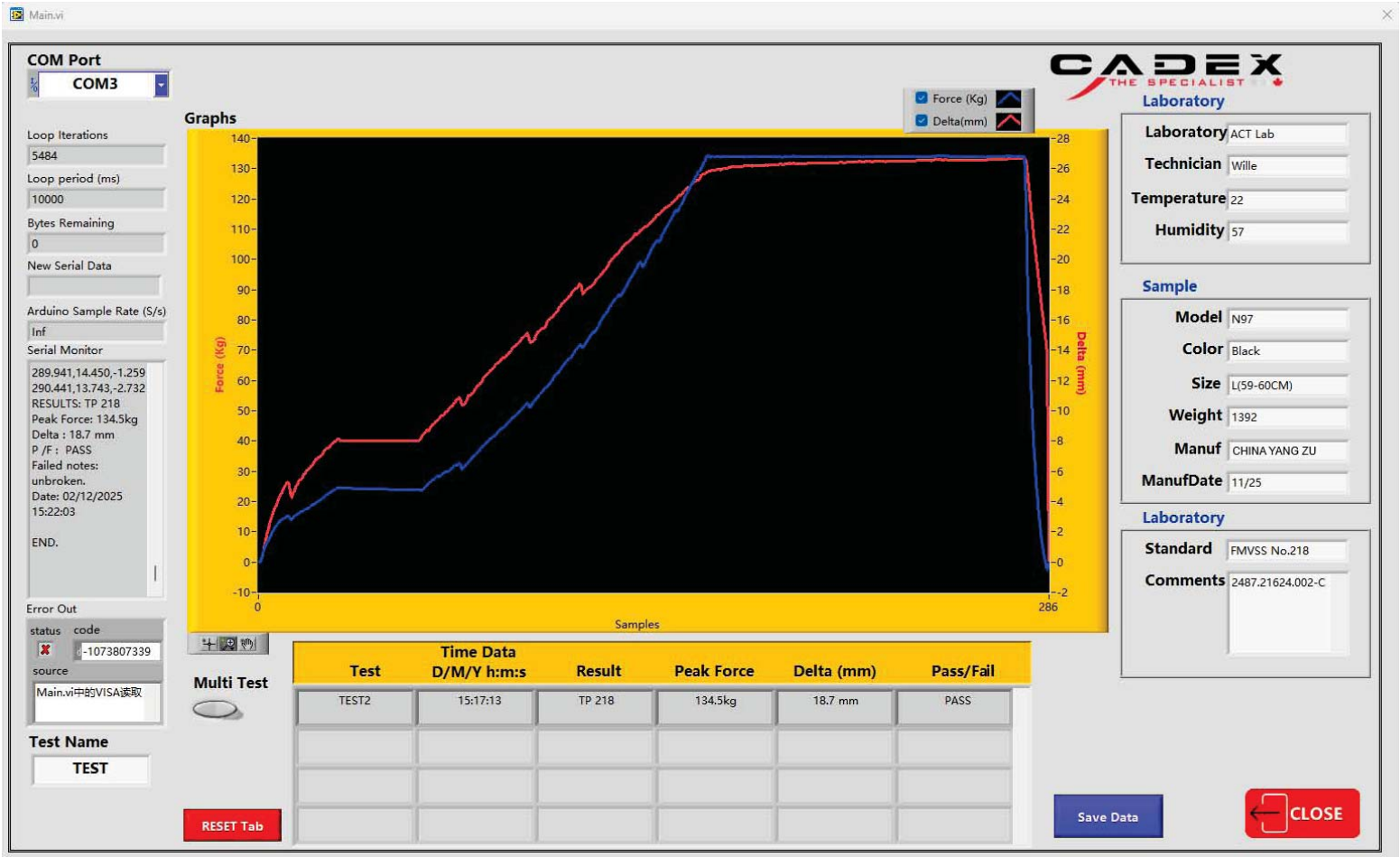


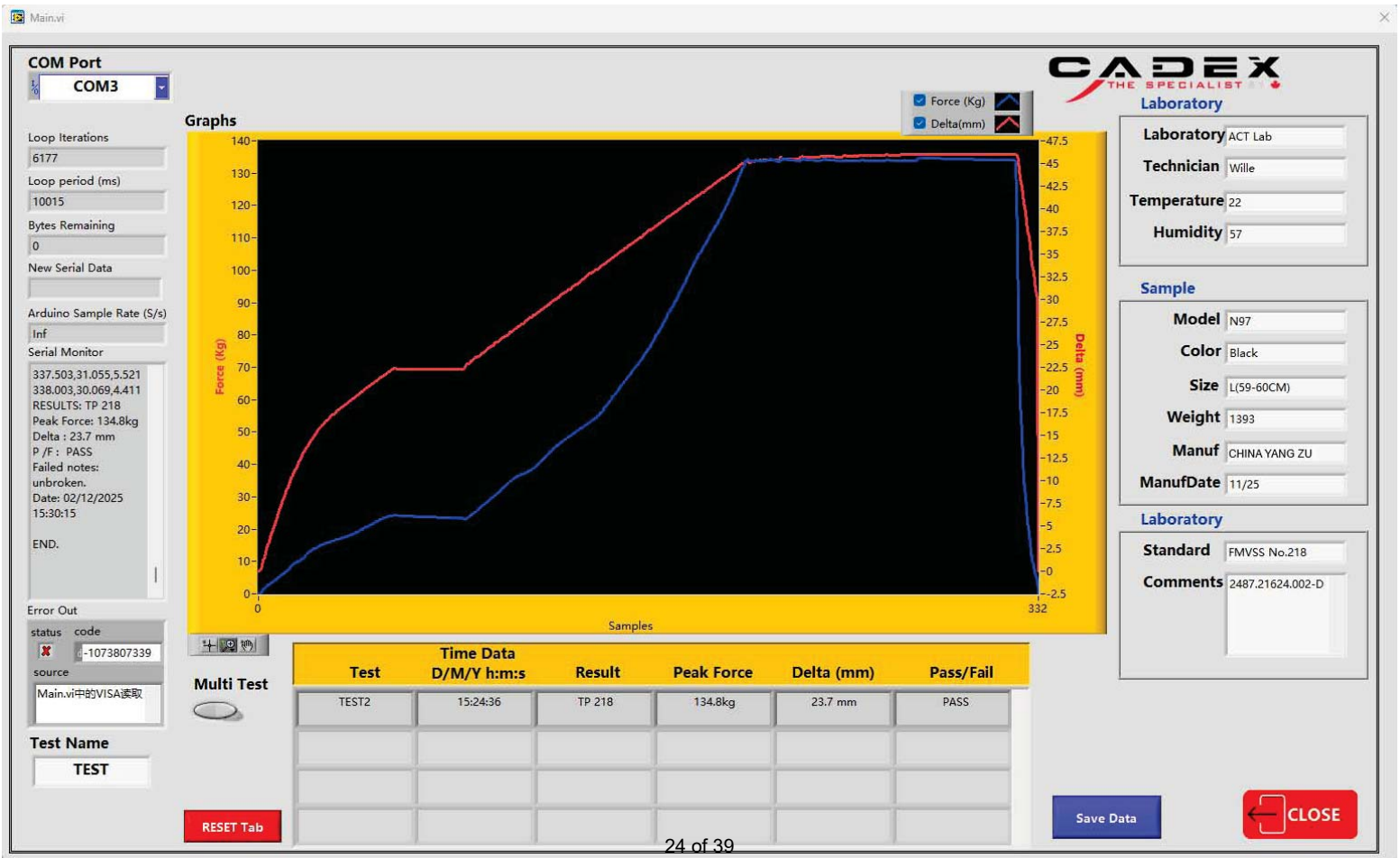
Model : N97
Color : Black
Size : L(59-60CM)
Weight : 1393.00 g
Manufacturing Date : 01 Dec 2025
Standard Request : FMVSS 218
Identification Code : 2487.21624.002-D
Headform Model : D.O.T.
Headform Size : C D.O.T
Conditioning : Wet
Laboratory Temperature : 22 deg C
Laboratory Humidity : 57 %
Selected Filter Frequency : 1650 Hz
Maximum Peak G's authorized : 400 G
Maximum Peak m/s2 authorized : 3923 m/s2
Drop mass assembly : 4.966 kg
Time gate flag height : 25.56 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	168.8	958	5.9721	192.0	FLAT	2.32	0.00	RT FRONT	2025-12-02	11:06:07	2.7	Pass
6	218.7	1455	5.9790	192.0	FLAT	2.50	1.56	RT FRONT	2025-12-02	11:06:35	2.6	Pass
7	169.8	1197	6.0127	192.0	FLAT	2.64	0.00	LF REAR	2025-12-02	11:17:50	2.0	Pass
8	202.0	1453	6.0137	192.0	FLAT	2.66	0.24	LF REAR	2025-12-02	11:18:00	2.0	Pass


Main.vi
COM Port
COM3
Graphs
Force (Kg)
Delta(mm)
Loop Iterations
4243
Loop period (ms)
10014
Bytes Remaining
0
New Serial Data
Arduino Sample Rate (S/s)
Inf
Serial Monitor
301.240,20.905,5.477
301.739,19.916,3.808
RESULTS: TP 218
Peak Force: 134.5kg
Delta : 20.6 mm
P /F : PASS
Failed notes:
unbroken.
Date: 02/12/2025
15:03:46
END.
Error Out
status
code
-1073807339
source
Main.vi中的VISA读取
Test Name
TEST
Multi Test
RESET Tab
Force (Kg)
Delta (mm)
Samples
Time Data
Test
D/M/Y h:m:s
Result
Peak Force
Delta (mm)
Pass/Fail
TEST1
14:58:44
TP 218
134.5kg
20.6 mm
PASS
CADEX
THE SPECIALIST
Laboratory
Laboratory ACT Lab
Technician Wille
Temperature 22
Humidity 57
Sample
Model N97
Color Black
Size L(59-60CM)
Weight 1399
Manuf CHINA YANG ZU
ManufDate 11/25
Laboratory
Standard FMVSS No.218
Comments 2487.21624.002-A
Save Data
CLOSE


Main.vi
COM Port
COM3
Graphs
Force (Kg)
Delta(mm)
Loop Iterations
4886
Loop period (ms)
10005
Bytes Remaining
0
New Serial Data
Arduino Sample Rate (S/s)
Inf
Serial Monitor
304.861,13.719,0.985
305.361,12.808,-0.941
RESULTS: TP 218
Peak Force: 135.7kg
Delta : 15.6 mm
P /F : PASS
Failed notes:
unbroken.
Date: 02/12/2025
15:14:26
END.
Error Out
status
code
-1073807339
source
Main.vi中的VISA读取
Test Name
TEST
Multi Test
RESET Tab
Force (Kg)
Delta (mm)
Samples
Time Data
Test
D/M/Y h:m:s
Result
Peak Force
Delta (mm)
Pass/Fail
TEST2
15:09:21
TP 218
135.7kg
15.6 mm
PASS
CADEX
THE SPECIALIST
Laboratory
Laboratory ACT Lab
Technician Wille
Temperature 22
Humidity 57
Sample
Model N97
Color Black
Size L(59-60CM)
Weight 1401
Manuf CHINA YANG ZU
ManufDate 11/25
Laboratory
Standard FMVSS No.218
Comments 2487.21624.002-B
Save Data
CLOSE


Main.vi
COM Port
COM3
Graphs
Force (Kg)
Delta(mm)
Loop Iterations
5484
Loop period (ms)
10000
Bytes Remaining
0
New Serial Data
Arduino Sample Rate (S/s)
Inf
Serial Monitor
289.941,14.450,-1.259
290.441,13.743,-2.732
RESULTS: TP 218
Peak Force: 134.5kg
Delta : 18.7 mm
P /F : PASS
Failed notes:
unbroken.
Date: 02/12/2025
15:22:03
END.
Error Out
status
code
-1073807339
source
Main.vi中的VISA读取
Test Name
TEST
Force (Kg)
Delta (mm)
Samples
0
286
Multi Test
Time Data
Test
D/M/Y h:m:s
Result
Peak Force
Delta (mm)
Pass/Fail
TEST2
15:17:13
TP 218
134.5kg
18.7 mm
PASS
RESET Tab
Save Data
CLOSE
CADEX
THE SPECIALIST
Laboratory
Laboratory ACT Lab
Technician Wille
Temperature 22
Humidity 57
Sample
Model N97
Color Black
Size L(59-60CM)
Weight 1392
Manuf CHINA YANG ZU
ManufDate 11/25
Laboratory
Standard FMVSS No.218
Comments 2487.21624.002-C


Main.vi
COM Port
COM3
Graphs
Force (Kg)
Delta(mm)
Loop Iterations
6177
Loop period (ms)
10015
Bytes Remaining
0
New Serial Data
Arduino Sample Rate (S/s)
Inf
Serial Monitor
337.503,31.055,5.521
338.003,30.069,4.411
RESULTS: TP 218
Peak Force: 134.8kg
Delta : 23.7 mm
P /F : PASS
Failed notes:
unbroken.
Date: 02/12/2025
15:30:15
END.
Error Out
status
code
-1073807339
source
Main.vi中的VISA读取
Test Name
TEST
Force (Kg)
Delta (mm)
Samples
0
332
Multi Test
Time Data
Test
D/M/Y h:m:s
Result
Peak Force
Delta (mm)
Pass/Fail
TEST2
15:24:36
TP 218
134.8kg
23.7 mm
PASS
RESET Tab
Save Data
CLOSE
CADEX
THE SPECIALIST
Laboratory
Laboratory ACT Lab
Technician Wille
Temperature 22
Humidity 57
Sample
Model N97
Color Black
Size L(59-60CM)
Weight 1393
Manuf CHINA YANG ZU
ManufDate 11/25
Laboratory
Standard FMVSS No.218
Comments 2487.21624.002-D

APPENDIX A

INTERPRETATIONS OR DEVIATIONS FROM FMVSS 218

1. S5.6 Labeling: *Client has supplied digital artwork for section 5.6.1 and 5.6.2, ACT has only evaluated that the required content is present.
2. S6.4 Conditioning: Excess water on the water immersed sample was allowed to drip off before testing to prevent water damage to test equipment.

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APPENDIX B

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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	5/5/2026
H1017	Helmet Room	Fixture	DOT Retention System Machine - SB033	NA	1 year	5/5/2026
H1034	Helmet Room	Environmental chamber	Water Immersion Container	NA	NA	NA
H1043	Helmet Room	Headform	ISO/EN960 A Partial Headform (Impact)	4272	1 year	5/5/2026
H1044	Helmet Room	Headform	ISO/EN960 C Partial Headform (Impact)	6938	1 year	5/5/2026
H1045	Helmet Room	Headform	ISO/EN960 E Partial Headform (Impact)	4146	1 year	5/5/2026
H1046	Helmet Room	Headform	ISO/EN960 J Partial Headform (Impact)	4148	1 year	5/5/2026
H1047	Helmet Room	Headform	ISO/EN960 M Partial Headform (Impact)	4131	1 year	5/5/2026
H1048	Helmet Room	Headform	ISO/EN960 O Partial Headform (Impact)	4151	1 year	5/5/2026
H1049	Helmet Room	Headform	DOT Small (Impact)	5178	1 year	5/5/2026
H1050	Helmet Room	Headform	DOT Medium (Impact)	5179	1 year	5/5/2026
H1051	Helmet Room	Headform	DOT Large (Impact)	5190	1 year	5/5/2026
H1052	Helmet Room	Drop Mass	CPSC/ASTM Spherical Impactor	NA	1 year	5/5/2026
H1054	Helmet Room	Drop Mass	ASTM/SNELL Chin Bar Impactor	NA	1 year	5/5/2026
H1055	Helmet Room	Anvil	CurbStone - CPSC/ASTM	NA	1 year	5/5/2026
H1056	Helmet Room	Anvil	Cylindrical	NA	1 year	5/5/2026
H1059	Helmet Room	Anvil	Triangular Hazard	NA	1 year	5/5/2026
H1060	Helmet Room	Anvil	Hemispherical - Yellow tower	NA	1 year	5/5/2026
H1062	Helmet Room	Anvil	Flat - Yellow tower	C240812-01	1 year	5/5/2026
H1091	Helmet Room	Fixture	40° Up Vision Angle Block	NA	1 year	5/5/2026
H1092	Helmet Room	Clamp	Split Ring Clamp - 119g	NA	1 year	5/5/2026
H1093	Helmet Room	Clamp	Split Ring Clamp - 210g	NA	1 year	5/5/2026
H1094	Helmet Room	Clamp	Split Ring Clamp - 378g	NA	1 year	5/5/2026
H1095	Helmet Room	Clamp	Split Ring Clamp - 451g	NA	1 year	5/5/2026
H1096	Helmet Room	Clamp	Split Ring Clamp - 505g	NA	1 year	5/5/2026
H1097	Helmet Room	Clamp	Split Ring Clamp - 597g	NA	1 year	5/5/2026
H1098	Helmet Room	Clamp	Split Ring Clamp - 1158g	NA	1 year	5/5/2026
H1099	Helmet Room	Anvil	Flat - Green tower	NA	1 year	5/5/2026
H1100	Helmet Room	Anvil	Hemispherical - Green tower	NA	1 year	5/5/2026
H1101	Helmet Room	Headform	DOT Small (Reference)	NA	1 year	5/5/2026
H1102	Helmet Room	Headform	DOT Medium (Reference)	NA	1 year	5/5/2026
H1103	Helmet Room	Headform	DOT Large (Reference)	NA	1 year	5/5/2026
H1105	Helmet Room	Drop Mass	Aluminum Ball Stem - Green tower	NA	1 year	5/5/2026
H1106	Helmet Room	Drop Mass	Steel Ball Stem	NA	1 year	5/5/2026
H1107	Helmet Room	Drop Mass	Magnesium Ball Stem	NA	1 year	5/5/2026
H1126	Helmet Room	Drop Mass	Complete Pistol Grip - Green tower	NA	1 year	5/5/2026
H1127	Helmet Room	Headform	ISO/EN 960 C Full Headform (Reference)	6947	1 year	5/5/2026
H1128	Helmet Room	Headform	DOT Small (Penetration)	NA	1 year	5/5/2026
H1129	Helmet Room	Headform	DOT Medium (Penetration)	NA	1 year	5/5/2026
H1130	Helmet Room	Headform	DOT Large (Penetration)	NA	1 year	5/5/2026
H1143	Helmet Room	Fixture	DOT Brow Opening 1 Inch Block	NA	1 year	5/5/2026
H1146	Helmet Room	Fixture	DOT Penetration Height Stick	NA	1 year	7/23/2025
H1149	Helmet Room	Mass	Testing Area Preload Ballast	NA	1 year	5/5/2026
H1150	Helmet Room	Drop Mass	10kg Positional Stability Drop Mass	NA	1 year	5/5/2026
H1189	Helmet Room	Drop Mass	DOT Penetration Striker Tip	070622-03	1 year	8/5/2026
H1196	Helmet Room	Fixture	DOT Retention Machine Static Load - SB033	NA	1 year	5/5/2026
H1197	Helmet Room	Fixture	DOT Retention LVDT Calibration Block	NA	1 year	11/26/2025
H1204	Helmet Room	Drop Mass	Complete Pistol Grip - Yellow tower	120122-07	1 year	5/5/2026
H1205	Helmet Room	Drop Mass	Ball Stem - Yellow tower	NA	1 year	5/5/2026
H1213	Helmet Room	Fixture	CPSC/ASTM Dynamic Retention Strength Fixture	NA	1 year	11/26/2025
H1229	Helmet Room	Fixture	Penetration Tube	NA	1 year	8/5/2026

EQUIPMENT LIST CONTINUED						
Asset Tag	**Location**	**Description of part**	**Model Number**	**Serial Number**	**Verification Interval**	**Next Verification**
H1057	Helmet Room	Anvil	Edge	NA	1 year	5/5/2026
H1058	Helmet Room	Anvil	Equestrian Hazard	NA	1 year	5/5/2026
H1061	Helmet Room	Anvil	Skate Blade	NA	1 year	5/5/2026
H1030	Helmet Room	Environmental chamber	Oven #1 - 92*9240MBE	Oven #1 - 92*9240MBE	1 year	6/3/2026
H1031	Helmet Room	Environmental chamber	Oven #2 - DHG-9426	Oven #2 - DHG-9426	1 year	12/09/2025
H1032	Helmet Room	Environmental chamber	Freezer #1 - DW-25W300	Freezer #1 - DW-25W300	1 year	6/3/2026
H1033	Helmet Room	Environmental chamber	Freezer #2 - DW-50W225	Freezer #2 - DW-50W225	1 year	12/09/2025
H1190	Helmet Room	Environmental chamber	Oven - KH-120A	2201-020	1 year	12/09/2025
H1026	Helmet Room	Fixture	Laser Table - SB005	Laser Table - SB005	1 year	12/09/2025
H1174	Helmet Room	Anvil	MEP Pad	MEP Pad	1 year	5/5/2026
H1210	Helmet Room	Fixture	Peripheral Vision	NA	1 year	11/26/2025
H1254	Helmet Room 2	Fixture	Mono-Rail Impact Tower 3-1000_00_MIMAT	030223-01	1 year	3/28/2026
H1278	Helmet Room 2	Anvil	Flat Anvil	092722-10	1 year	4/18/2026
H1279	Helmet Room 2	Anvil	Kerbstone Anvil	092722-12	1 year	4/18/2026
H1282	Helmet Room 2	Drop Mass	Pistol Grip (New tower)	120122-09	1 year	4/18/2026

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CALIBRATED MEASUREMENT DEVICES						
Asset Tag	**Model Number**	**Measuring Range**	**Accuracy**	**Serial Number**	**Last Calibrated On**	**Calibration Due On**
H1003	Velocity Gate - Yellow tower	0-8.5m/s	±0.0001m/s	HVTG120120810-1	11/4/2025	11/4/2026
H1004	Velocity Gate - Green tower	0-8.5m/s	±0.0001m/s	HVTG120090331-1	3/7/2025	3/7/2026
H1006	Accelerometer PCB 353B18 - Yellow & Green tower	±500g	±0.1%	131607	2/6/2025	2/7/2026
H1007	Accelerometer PCB 353B18 - Green tower	±500g	≤1%	86079	10/22/2025	10/22/2026
H1010	CCS PC4300 - Green tower	±500g	±0.1%	CCS120090331-1	3/7/2025	3/7/2026
H1012	CPSC/ASTM Dynamic Strength LVDT - C20101007753 (Backup)	2 Inch	±0.1%	C20101007753	12/18/2024	12/17/2025
H1025	Electronic Scale - BT-6	0-6kg	±0.1g	12230126	6/4/2025	6/3/2026
H1036	Hygrothermograph #1 - TH-602F	-30~60℃, 0-100%	±1℃	3238	6/5/2025	6/4/2026
H1063	Digital tape - 5m	0-5m	±0.1mm	78223	12/14/2024	12/13/2025
H1299	Digital Tape - eTape16 G1	0-5m	±1mm	NA	09/23/2025	09/22/2026
H1064	CCS PC4400 - Yellow tower	±500g	±0.1%	CCS120120810-1	11/4/2025	11/4/2026
H1070	DOT Retention System Load Cell - 9363-B10-300-20T1	0-300lb	±0.1kg	80310843	6/4/2025	6/3/2026
H1072	Hygrothermograph #4 - TH600B	-20~100℃, 0-100%	±1℃	Q/MDS001-2017-2	6/5/2025	6/4/2026
H1073	Height Gauge	0-500mm	±0.01mm	8811213838273610	12/10/2024	12/09/2025
H1075	Digital Level - SPI TRONIC Pro 360	0-360°	±0.1°	31-038-3	12/14/2024	12/13/2025
H1076	Calorifier - CN-111	18-35℃	±0.1℃	NA	12/10/2024	12/09/2025
H1077	ACT Tape	0-1.5m	±1mm	NA	12/14/2024	12/13/2025
H1117	Helmet Internal Circumference Measure Tool	49-62cm	±1mm	NA	12/15/2024	12/14/2025
H1172	Height Measurement Rod #6	600±5mm	±1mm	032216-02	6/4/2025	6/3/2028
H1180	CPSC/ASTM LVDT & Sensor Box	2 Inch	±0.1%	04140748-001	12/18/2024	12/17/2025
H1184	Accelerometer PCB 353B18 - Yellow tower	±500g	≤1%	LW226664	10/22/2025	10/22/2026
H1193	I-square	150*100mm	±1mm	SJT-43008	12/14/2024	12/13/2025
H1194	Triangular Ruler	190mm	±1mm	SJT-43111	12/14/2024	12/13/2025
H1198	LVDT Volfa LWE-200 (Head) - DOT Retention	0-200mm	±0.05%	NA	12/18/2024	12/17/2025
H1199	LVDT Volfa LWE-200 - DOT Retention Machine	0-200mm	±0.05%	NA	12/18/2024	12/17/2025
H1200	VPG load cell - 9363-B10-500-20T1 - DOT Retention Machine	0-500lb	±0.1kg	90139705	12/18/2024	12/17/2025
H1214	DOT Retention System LVDT (Head) - LWE-200	0-50mm	±0.05%	27008-10	6/4/2025	6/3/2026
H1216	Digital Vernier Caliper - GLA13S	0-300mm	0~200mm: ±0.03mm; 200~300mm:±0.04mm	K23D014332	6/4/2025	6/3/2026
H1249	LVDT Volfa LWE-200	0-200mm	±0.05%	210015004	12/18/2024	12/17/2025
H1287	Temperature Logger	-40℃~85℃, 5%RH~99%RH	±0.3℃ (15℃~20℃), ±0.5℃ (20℃~30℃), ±3%RH (40%~60%), ±4%RH (60%~80%)	D13000017	6/5/2025	6/4/2026
H1288	Temperature Logger	-40℃~85℃, 5%RH~99%RH		D13000014	6/5/2025	6/4/2026
H1289	Temperature Logger	-40℃~85℃, 5%RH~99%RH		D13000011	6/5/2025	6/4/2026
H1290	Temperature Logger	-40℃~85℃, 5%RH~99%RH		D13000018	6/5/2025	6/4/2026
H1291	Temperature Logger	-40℃~85℃, 5%RH~99%RH		D13000020	6/5/2025	6/4/2026
H1292	Temperature Logger	-50℃~70℃	±1℃	6927148600180	6/5/2025	6/4/2026
H1262	Accelerometer PCB 356B21	50-2,000g	±0.1g	LW347345	5/6/2025	5/5/2026
H1264	CCS Box PC4400 (tower 3)	±500g	≤ 1%	CCS120221216-1	5/15/2025	5/14/2026
H1266	Velocimeter-2 (tower 3)	0-8.5m/s	±0.0001m/s	HVTG120221216-2	5/15/2025	5/14/2026

Contract File No.: 2487.21624
Test File: 002

Technician: Edward Wang
Test Date: 02 December 2025

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






PULL
PULL




M2 F1




H1230
PULL


PULL

Size:L(59-60CM)
Manufacturer: CHINA YANG ZU S.A.C.
Date of manufacture: 2025-11

WARNING

Shell/ Plastic /liner Polystyrene

No helmet can protect against all possible or foreseeable impacts, the purpose is to reduce the harmful effect of a blow to the head. Riding motorcycles or off-road vehicles implies user acceptance some reasonably foreseeable impacts may exceed this helmets capability to protect against injury. Helmet afford no protection from neck injury. Make no modifications to this helmet, For maximum protection helmet must fit firmly on the head and the chin strap must be securely fastened. Read instructions to ensure proper fit. If helmet experiences a severe blow, though damage is not visible, the helmet should be destroyed and replaced. Helmet can be seriously damaged by some common substances, cleaning agents, without being visible to the user, Apply only mild soap and water to clean helmet.

Manufactured date:2025-11
Model: N97
DO NOT REMOVE THIS LABEL
Manufactured by
CHINA YANG ZU S.A.C.
Made in China
DOT FMVSS No.218


BRX
N97
DOT
FMVSS No. 218
CERTIFIED

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 Section 4.2.1 “Binary Statement for Simple Acceptance Rule” as stated in "ILAC-G8:09/2019 - Guidelines on the Reporting of Compliance with Specification".

****

END OF REPORT

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