<u>Equipment Matrix</u>



i. Basic Information

Commercial Brand/ Brand for Vehicle Safety Type Approval	TOYOTA / Kuozui
Test Model ¹	ALTIS

ii. Application Rating Method and Test variant

□ The assessment of vehicles with the lowest base safety level shall be executed based on the government budget.

□ Manufacturer is willing to provide the test vehicles and its test components free of charge.

□ Purchase the test vehicles and its test components with the government budget.

□ Manufacturer agree to sponsor for rating, and designate the following variant as the test variant.

□ Variant with the base safety level(Standard equipment).

□ Designated variant.

iii. Specification of Test Model

The test model is sold according to the following body type, drivetrain, displacement and energy types (this table can be added or deleted according to actual needs). In addition, please add relevant information in the description field, such as "Starting sales in 2018".

Body Style

Body Style	Description
4 door sedan(saloon)	-

> Displacement and energy sources types, such as 2487c.c. gasoline (gasoline and electricity)

Displacement and energy sources types	Description
1798 c.c. gasoline	
1798 c.c. gasoline (gasoline and electricity)	-

> Drivetrain

Drivetrain	Description
4 X 2	-

\blacktriangleright The 3rd Row Seat²

Configuration description	\times Not available
Seat	\times Not available

iv. Other NCAP Rating Plan

Is the test vehicle model scheduled to be assessed, now or at some point in the future, by any other car safety evaluation program? Or have you obtained the effective star rating (e.g. Japan NCAP, Euro NCAP, etc.)?

Name of program	(Estimated) Date of Releasing Result		
Euro NCAP	2020/11		

^{1.} Please fill in the exact name of the commercial vehicle model to be displayed on TNCAP website, such as Mercedes-Benz C-Class, BMW 3 series.

2. For any variant of the model range with standard/optional third-row seats, the manufacturer shall provide at least one vehicle with third-row seats free of charge to allow assessment of the seat belt reminder device, child restraint system installation and rear seat whiplash. The implementing agency will return the vehicle after the test. If the manufacturer doesn't provide an extra vehicle for the above assessment, then the variant will not be considered to share the rating of the tested model.

v. Model Range

Please specify the whole of test model range information in the table below. The model range refers to all the variant (i.e. body style, displacement and energy types, drivetrain system) which have acquired the Vehicle Safety Type Approval Certificate in Taiwan and have the same commercial name or designation. This information will be used to reveal to consumers the applicable variants of star assessment results. The assessed manufacturer shall attach relevant data and proved documents according to the TNCAP protocol (1.3 Application of Star Rating), for the implementing agency to conduct the applicability review.

(- 11	8// 1	8 8		11	· ·	
Vehicle Model Code with "Vehicle Safety Type Safety Approval Certificate	Marketing	Body Style	Displacement and energy sources types	Drivetrain	Kerb Weight ³	Rating Applies
AXXXXXXXXXXX	Classic	4 door sedan(saloon)	1798 c.c. gasoline	4 X 2	1290	\checkmark
AXXXXXXXXXXX	Luxury	4 door sedan(saloon)	1798 c.c. gasoline	4 X 2	1305	\checkmark
AXXXXXXXXXXXX	Luxury+	4 door sedan(saloon)	1798 c.c. gasoline	4 X 2	1305	\checkmark
AXXXXXXXXXXX	Deluxe	4 door sedan(saloon)	1798 c.c. gasoline	4 X 2	1315	\checkmark
AXXXXXXXXXXX	Deluxe+	4 door sedan(saloon)	1798 c.c. gasoline	4 X 2	1315	\checkmark
AXXXXXXXXXXX	GR SPORT	4 door sedan(saloon)	1798 c.c. gasoline	4 X 2	1330	\checkmark
AXXXXXXXXXXX	Deluxe	4 door sedan(saloon)	1798 c.c. gasoline (gasoline and electricity)	4 X 2	1390	
AXXXXXXXXXXX	Flagship	4 door sedan(saloon)	1798 c.c. gasoline (gasoline and electricity)	4 X 2	1405	

Supplementary description:

1. The Vehicle Safety Type Approval Certificate for XXX vehicle model, please see attachment 1.

2. The Classic, Luxury, and Luxury+ variants are all fitted with standard safety equipment. The Deluxe, Deluxe+, and GR SPORT variants have extra safety equipment compared to the standard equipment. Therefore, the above models are all applicable to the rating results.

Whether to apply for sharing the rating to other variants?

Supplementary description:

Deluxe and Flagship gasoline and electricity variants apply for sharing the star rating. But offset deformable barrier frontal impact test and oblique pole side impact test are applying for formal test, when test completed that will be provided to implementing agency for processing.

Whether to apply for sharing the star rating to other models No Supplementary description:

Yes

vi. Test Variant

Please recommend test variant with the lowest base safety level (or designate test variant) according to the aforementioned model range, and explain the reasons. If there are many variants belonging to the basic safety level in the rated model range, please describe the information and recommendation of each variant, and the implementing agency will select the test variant from the above ones.

✓ Variant with the base safety level (Standard equipment)	Description
□ Designate variant	
Classic	
Luxury	

3. Please fill in the kerb weight of each variant base on the "Vehicle Safety Type Approval Certificate"

vii. Brand LOGO and Image of test variant

To facilitate the publication of rating results and related information on the TNCAP website, please reply (check the box) to indicate whether you agree to provide both images of the brand logo of vehicle model and the tested variant.

> Brand LOGO (If the box is not checked, the implementing institution will handle it directly.)

□ Agree to provide current or new image, the required specifications are as follows

- Format : JPG or PNG
- File size : 300*300 px

□ The image was provided previously.

□ Other, _____

> Image of test variant (If the box is not checked, the implementing institution will handle it directly.)

□ Agree to provide the test variant image, the required specifications are as follows

- Format : JPG or PNG
- File size : 408*198 px
- Background color : white
- View : ISO view
- Vehicle head direction : When the viewer faces the image, the vehicle head direction is toward the left of the viewer.

□ Other, _____

viii. Adult Occupant Protection

Please describe the configuration of each safety equipment of the test model:

Standard; \bigcirc Optional; \times Not available; $-$ Not applicable							
Adult Occupant	Driver	Passenger	Row 2 outboard	Row 2 Center	Row 3 outboard	Row 3 Center	
Frontal							
Frontal airbag	•	•	X		_		
Belt pretensioner	•	•	•	\times			
Belt loadlimiter	•	•	•	\times		—	
Knee airbag	•	•			—	—	
Side							
Side head airbag		•	•	—	_	_	
Side chest airbag			\times	—	_	_	
Side pelvis airbag	•	•	\times	_	—	—	
Whiplash							
Meet the Vehicle Safety Testing Directions, "50-2, Head restraint"		_	—	Y	—	Y	
Does the car have structure behind the front seats Description : which might influence seat deflection/whiplash Description : performance? □ Yes ☑ No							
AEB City System ^{4,6}							
Fitment							
Name of AEB City system	PCS (Pre-C	PCS (Pre-Collision Safety system)					
AEB City System is 'Default On'?	Yes						
Operating speeds (km/h)	Min. Speed : XXX Max. Speed : XXX						

If any safety equipment is optional or cannot be equipped with any variant, please fill in "O Optional" or "X Not available" respectively. If the safety equipment cannot be used for the seat of test model, please fill in "– Not applicable".

TNCAP executive agency and technical service will randomly select predicted collision speeds⁵ from those provided by the evaluated vehicle manufacturer for the AEB City scenario and conduct 10 verification tests. The evaluated vehicle manufacturer may apply for additional test points at their own expense to obtain a more accurate correction factor. Please indicate in the table below whether you are applying for additional test points at your own expense.

Whether the assessed manufacturer wish to sponsor additional CCRs tests for validation	Yes Number of additional tests (up to 10) :
Supplementary description :	

Please indicate whether the test model conducted the knee-mapping; TNCAP *executive* agency will then hold the relevant inspection and one-to-one meeting.

Whether the knee mapping test is conducted for the test model?	Yes
Supplementary description :	

- 4. For AEB City System, when a manufacturer believes that the GVT is not suitable for another type of sensor system used by the VUT, the manufacturer is asked to contact the TNCAP executive agency.
- 5. Vehicle manufacturers shall provide the TNCAP executive agency with color-coded data used for predicting the AEB system tests (there is no need to provide the expected collision speeds). The vehicle performance in CCRs scenarios shall be clearly described to identify all overlap and collision speed combinations.
- 6. If predictive data for the AEB City is not provided, the vehicle manufacturer shall, at their own expense, conduct tests at all grid points; otherwise, no score will be awarded for this item.

ix. Child Occupant Protection

Please describe the configuration of each safety equipment of the test model:

ullet Standard; \bigcirc Optional; \times Not available; - Not applicable

Vehicle Based						
Child Occupant	Driver	Passenger	Row 2 outboard	Row 2 Center	Row 3 outboard	Row 3 Center
ISOFIX	—	\times		\times	—	_
Top tether	—	\times		\times	_	_
i-Size	—	\times			—	_
Integrated CRS	—	\times	\times	\times	—	_
Airbag cut-off switch	—		N/A	N/A	N/A	N/A
Airbag warning labels	_		N/A	N/A	N/A	N/A
Floor storage compartment	_		0	N/A	0	N/A

If any safety equipment is optional or cannot be equipped with any variant, please fill in "O Optional" or "X Not available" respectively. If the safety equipment cannot be used for the seat of test model, please fill in "- Not applicable".

Whether the test model is vehicle with limited rear space 7?	Yes
Supplementary description :	

Whether the test model is equipped with a low risk deployment frontal airbag ⁸ ?	Yes
Supplementary description :	

7. Vehicles will be considered as having limited rear space when the normal CRSs recommended by the manufacturer cannot be installed with the front seats in t`position.

^{8. &}quot;The low risk deployment frontal airbag" means the airbag can remain active when installing a rearward facing child restraint system.

Manufacturer Recommended Child Restraints				
	Recommended restraint ⁹	Installation	Certificate of the registration of product certification Certificate No.	
Group 0+	Maxi Cosi Cabriofix	Belt	CIXXXXXXXXXXXX	
Group I	Römer Duo Plus	ISOFIX	CIXXXXXXXXXXXX	
Group II	Römer KidFix XP	ISOFIX	CIXXXXXXXXXXXX	
Group III	Römer KidFix XP	Belt	CIXXXXXXXXXXXX	
6-year-old dummy (Q6)	Britax Römer KIDFIX XT SICT	ISOFIX	CIXXXXXXXXXXXX	
10-year-old dummy (Q10)	Booster Cushion	ISOFIX	CIXXXXXXXXXXXX	

Supplementary description :

Please attach the relevant information on recommended child restraints in the owner's manual of the model

For specific equipment not listed in the above table, please use the box above to supplement it.

9. Recommended child restraint systems (CRS) for dynamic tests will be bought and shipped to the laboratory by TNCAP executive agency at the expense of the assessed manufacturer.

x. Pedestrian Protection

Please provide details of the pedestrian protection systems

	Standard;	\bigcirc Optional;	\times	Not available
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Active pedestrian system ¹⁰	
Deployable bonnet	\times
Pedestrian Airbag	\times
Name of system	

TNCAP will perform 10 validation tests, TNCAP *executive* agency and laboratory randomly chosen from the predicted results¹¹. The assessed manufacturers may sponsor additional points for validation to get a more accurate correction factor. Please indicate here whether or not additional points will be sponsored.

Whether the assessed manufacturer wish to sponsor	Yes		
additional headform tests for validation	Number of additional tests (up to 10) :		
Whether the assessed manufacturer wish to sponsor	Yes		
additional legform tests	Number of additional tests :		
Whether the assessed manufacturer wish to sponsor	Yes		
additional upper legform tests	Number of additional tests :		
Supplementary description:			

AEB VRU System ¹²				
AEB Pede strian System				
Fitment		•		
Works in low light/darkness	Yes			
Technology employed	Radar			
Name of system	PCS (Pre-Collision Safety system)			
AEB Pedestrian System is 'Default On'?	Yes			
Operating speeds (km/h)	Min. Speed : XXX	Max. Speed : XXX		
AEB Bicyclist System		•		
Fitment		•		

Technology employed	Ra	adar
Name of system	PCS (Pre-Collision Safety system)	
AEB Bicyclist System is 'Default On'?	Y	7es
Operating speeds (km/h)	Min. Speed : XXX	Max. Speed : XXX
Supplementary description :		

- 10. Note that the car will be tested with any active system undeployed unless the assessed manufacturer provide evidence to TNCAP demonstrating that the system meets the requirements set out in TNCAP's Pedestrian Testing Protocol regarding robustness of deployment
- 11. For pedestrian test, the assessed manufacturer shall provide predicted data for all grid points and the number of additional tests of the test model before the test. Where no predicted data is to be provided, all grid points of the assessed manufacturer shall be tested by laboratory at its own expense, or marked by the laboratory according to the Euro NCAP Pedestrian Testing Protocol version 5.3.1, November 2011, and tested according to the TNCAP Pedestrian Testing Protocol.
- 12. For AEB VRU System, when a manufacturer believes that the EVT is not suitable for another type of sensor system used by the VUT, the manufacturer is asked to contact the TNCAP executive agency.

xi. Safety Assist

$ullet$ Standard; \bigcirc Optional; $igma$ Not available

Occupant Status Monitoring (OSM)							
Seat Belt Reminder (S	SBR)	•					
Name of system							
	Driver	Passen seat	-	Row 2 Outboard	Row 2 Center	Row 3 Outboard	Row 3 Center
Fitment	•	•		•	•	•	
Includes occupant detection as standard	—	Y		Y	Y	Y	Y
Driver Status Monitoring (DSM)							
Fitment							
Name of system							
Type of system							
Driver Status Monitori	ng is 'Default O	t On'? Yes					
Operating speeds (km/l	h)	Min. Speed : X		. Speed : XXX Max. Speed : XXX		X	
Supplementary description :							

AEB Inter-Urban System ^{13, 15}				
Fitment	۲			
Name of system	PCS (Pre-Collision Safety system)			
Type of system	AEB-	FCW		
AEB Inter-Urban System is 'Default On'?	Y	es		
AEB operating speed range (km/h)	Min. Speed : 10	Max. Speed : XXX		
FCW operating speed range (km/h)	Min. Speed : 10	Max. Speed : XXX		
Supplementary description:				

TNCAP executive agency and technical service will randomly select predicted collision speeds¹⁴ from those provided by the evaluated vehicle manufacturer for the AEB Inter-Urban scenario and conduct 20 verification tests. The evaluated vehicle manufacturer may apply for additional test points at their own expense to obtain a more accurate correction factor. Please indicate in the table below whether you are applying for additional test

Whether the assessed manufacturer wish to sponsor	Yes	
additional AEB CCRm tests for validation	Number of additional tests (up to 10) :	
Whether the assessed manufacturer wish to sponsor	Yes	
additional FCW CCRs and CCRm tests for validation	Number of additional tests (up to 10 for CCRs and	
	CCRm tests) :	
Supplementary description :	·	

Lane Support System (LSS) ¹³					
Name of system	LDA Lane Departure Warning System				
Type of system	LKA+LDW+ELK ×				
Lane Support System is 'Default On'?	Yes				
Oncoming vehicle detection?	Yes				
LDW operating speed range (km/h)	Min. Speed : XXX Max. Speed : XXX				
LKA operating speed range (km/h)	Min. Speed : XXX	d : XXX Max. Speed : XXX			
ELK operating speed range (km/h)	Min. Speed : XXX Max. Speed : XXX		XXX		
Equipped with Blind Spot Monitoring (BSM)		•			
Supplementary description :					

- 13. For AEB Inter-Urban system and Lane Support System, when a manufacturer believes that the GVT is not suitable for another type of sensor system used by the VUT, the manufacturer is asked to contact the TNCAP executive agency.
- 14. Vehicle manufacturers shall provide the TNCAP executive agency with color-coded data used for predicting AEB and FCW system test scenarios (it is not necessary to provide the expected collision speed). The performance of the vehicle in CCRs and CCRm scenarios shall be detailed to determine all overlap and collision speed combinations.
- 15. If predictive data for highway emergency braking assistance systems is not provided, the vehicle manufacturer may, at their own expense, conduct tests at all grid points; otherwise, no score will be awarded for this item.

Speed Assistance	Speed Assistance System (SAS)					
Name of system				-		
Function of system		Intelligent Speed Assistnace(ISA SLIF+SLF coupled)		Α,	•	
	Speed Limit Information Function type	Camera				
	Speed Limit Information Function is 'Default On'?	Yes				
Speed Limit Information Function (SLIF)	System Accuracy -If map-based data must be updated frequently (at least quarterly) and automatically for the first six years, without user action.	Yes				
		General Speed Limit	Urban-Yes	Rural-Yes	Highways-Yes	
	Recognizable background information of SLIF	Conditional	Time Condition- Yes	Weather Condition-Yes	Vehicle Category-Yes	
		Speed Limit	Distance-Yes	Implicit-Yes	Dynamic Speed Limit-Yes	
Operating speed r	ange (km/h)	Min. Speed : XXX Max. Speed : XXX		XX		
Supplementary de	Supplementary description :					

Blind Spot Assist System (BSS)			
Fitment	•		
Name of system			
Type of system	BSD		
Blind Spot Detection (BSD) operating speed range (km/h)	Min. Speed : XXX	Max. Speed : XXX	
Blind Spot Visualization (BSV) operating speed range (km/h)	Min. Speed : XXX	Max. Speed : XXX	
Supplementary description :			

Test Information on Test Vehicle



I. Required Document for the Test and Assessment

(I) Adult Occupant Protection

1.1 Knee mapping test data, where applicable

The manufacturer shall submit the knee mapping data before the frontal offset deformable impact test, or within 6 weeks after the test at the latest. If it fails to do so, the penalty will be applied according to the protocol. Description:

1.2 Front passenger data of the frontal full width impact test

The manufacturer shall submit the front passenger data at least 1 week before the frontal full width impact test. If it is not willing or able to provide this data, TNCAP may perform the frontal full width test with an additional dummy. Description:

1.3 Details about the front seats available for that model of vehicle

Before the front seat whiplash test, the manufacturer shall submit the details about the front seats available for that model of vehicle and of any differences between the driver and front passenger's seats in the basic level vehicle that might influence whiplash protection.

Description:

1.4 Evidence of the equivalence of the worst case geometry assessment of the front seats

Before the front seat whiplash test, the manufacturer shall provide evidence that the front seats of test variant are equivalent in terms of the worst case geometry assessment; otherwise, the manufacturer will be asked to provide additional seat for assessment.

Description:

(I) Adult Occupant Protection

1.5 R point position and torso angle of the rear outboard seating positions of the test variant

Before the rear seat whiplash test, the manufacturer shall provide the theoretical design data for R point position and torso angle of the two outboard seating positions of the test variant to prove that the outboard seating positions are symmetrical. If all the values are the same to within the tolerances, only one position needs to be measured. Otherwise, the two outboard seating positions will separately assessed.

Description:

1.6 Evidence of the vehicle with limited rear space¹, where necessary

For vehicles with limited rear space, the manufacturer, before the assessment, shall provide evidence showing that the Child Restraint System (CRS) and/or child dummy cannot be installed without interference from the vehicle. Description:

1. Vehicles will be considered as having limited rear space when the normal CRSs recommended by the manufacturer cannot be installed with the front seats in the test position.

(II) Child Occupant Protection

2.1 Evidence of low risk deployment frontal airbag², where necessary

Where the low risk deployment frontal airbag is fitted, the manufacturer shall provide convincing data before the assessment, which indicate that the frontal airbag can indeed be considered as low risk, and there must be information in the handbook indicating that this airbag can remain active when installing the rearward facing Child restraint system (CRS).

Description:

2.2 For vehicles with limited rear space, the manufacturer shall submit dynamic test data

The manufacturer shall provide the dynamic test data with modified front seating positions before the assessment; otherwise, zero point will be awarded for the dynamic assessment. Description:

^{2. &}quot;The low risk deployment frontal airbag" means the airbag can remain active when installing a rearward facing child restraint system.

The official sheets are written in Chinese, this English edition is for your reference only.

(III) Pedestrian Protection

3.1 Information about detection of pedestrian and deployable system

Where an active pedestrian protection system is fitted, the manufacturer shall provide all necessary information related to the detection of pedestrians and development of the system (such as the specific details of the sensing, trigger and development systems, etc.) before the pedestrian test, including but not limited to:

- 1. General system description shall be provided which details the type of sensor system (pressure/acceleration etc.) and give details of any airbags, actuators and hinge mechanisms.
- 2. Active operating range for the system (km/h).
- 3. Human body model simulations for head impact time (HIT) of relevant pedestrian statures (6YO, 5th female, 50th male, 95th male).
- 4. System total response time (TRT) compared to HIT.
- 5. Confirmation of hardest to detect impactor (HTD).
- 6. Data from all necessary physical tests.
- 7. HIC data for an undeployed system at the lower operating limit.
- 8. Bonnet deflection analysis.

Description:

3.2 Coordinates of all grid points derived from either CAE data or physical mark out, and HIC_{15} or colour data detailing the protection offered by the test variant at all headform grid locations.

For headform impact test, the manufacturer shall provide the following data before any vehicle marking or testing begins:

- 1. Manufacturer grid marking coordinates relative to an identifiable location on the vehicle.
- 2. Predicted colour or HIC data clearly identifying defaulted points and blue points.
- 3. Justification for all blue points.
- 4. *4. In case there are two blue zones next to each other, details of which point(s) form a blue zone.* Description:

3.3 Evidence for the location and structure of symmetrical grid points in front of the vehicle

For the legform impact test, if the structure of symmetrical grid points on both sides of the vehicle are different, the manufacturer should provide proof before the start location is selected and any nominations are made. Description:

3.4 List of parts required for the pedestrian protection test

The manufacturer shall provide the list of parts required for the test before the pedestrian protection test. However, if the parts are quoted at unrealistically high prices or with excessively long lead times, the test will be scored zero points in accordance with TNCAP Section 1.4.4.3.2. Description:

(IV) Safety Assist

4.1 For the evaluation of Driver Monitoring Systems, the manufacturer must provide a dossier containing a detailed technical assessment.

The dossier should contain:

- 1. Technical detail about the system, to fully understand its functionality, relevant components, and intended availability.
- 2. Test procedures, criteria and limits by which the performance of the system was verified.

3. *If available, the dossier should summarize the findings from real-world or simulated real-world evaluations.* Description:

II. Specification Information Table of the Test Vehicle

i. Basic Inform	nation of the Ve	hicle							
Vehicle Make		Model Name	;			Test M	odel		
Vehicle Length	mm	Vehicle Wid	th	mm		Number Doors	r of		
Unladen Kerb Mass	kg (full fuel tank)	Front Axle Weight Rear Axle		kg			um ed Laden	(full	kg fuel tank)
	,	Weight		kg		Mass		,	
Tire Specification	Brand	Model	D	imension	Speed	Code	Load Capabilit Index	У	Cold Tire Pressure (unit)
Front Axle									
Rear Axle									
Geometric Inspection (Unit: degree & arc minute)	Left Toe-in (with tolerances)	Right Toe-in (with tolerances)	(w	eft Camber vith lerances)	Right (with tolerar	Camber nces)	Left Caster (with tolerance	s)	Right Caster (with tolerances)
Front Axle									
Rear Axle									
Recommended value of air pressure for tire in proper load state	□ Recommended Value Description: □ Fig			gure:					
Fender Height with no Load	The height of left front fender from ground ismm, The height of left rear fender from ground ismm. The height of right front fender from ground ismm, The height of right rear fender from ground ismm.								
	□ ICE □ 92 Unleaded Gasoline □ 95 Unleaded Gasoline □ Diesel Fuel tank capacity :Liter								
Engine Type	□ Pure Electric □ Hybrid (Please declare the fuel type above) □ Electric □ Fuel cell: Fuel capacity:liter, Fuel type: (Please attach the electric system specifications and charging operation documents.)								
	□ Other:								
Spare Tire	□ Available □ Not available								
Accessory Tools	□ Available □ Not available								

Reference	Position	Coordinate Value	Diagram Description	Diagram of Coordinate Axis Direction
Point	Description	(X, Y, Z)	· · ·	
	Fixing point abo		NO.01	
NO.01	the striker of the	Y:		
	left front door	Z:		
	Fixing point of t	he X:	NO.02	
NO.02	hinge rod of the	Y:		
	left front door	Z:		
	Fixing point of t			
NO.03	front left seat leg			
	driver seat	Z:		
	Fixing point of t			
NO.04	front right seat l	-	The second se	anna constantion destruction dere r place ferrigent
	of driver seat	Z:	NO.04 NO.03	SIGN CONVENTIONS Seguration and start
	Fixing point of t		\bigcap	Sera & plane
NO.05	rear left seat leg driver seat			terry filmed
	unver seat	Z:		
	Fixing point of t			+Y
NO.06	rear right seat le of driver seat		NO.05 NO.06	La Cart
		Z:	10.00	
	Fixing point of t front left seat leg	r of		A Committee soften
	the front passen		· · ·	+X 1+Z
	seat	Z:		
	Fixing point of t			
NO.08	front right seat loof the front	Y:		
	passenger seat	Z:	NO.08 NO.07	
	Fixing point of t		\bigcap	
NO.09	rear left seat leg			
	the front passeng	Z:	\square	
	Fixing point of t	he X:		
NO.10	rear right seat le		A CE	
	of the front passenger seat	Z:	NO.09 NO.10	
Please prov	· · · ·		the plane of the vehicle be	ody. If there are other reference points other
han the ab	ove, please also j	provide relevant diag		
R point coo leat	ordinate of driver	X:	Y:	Z:
	ordinate of front	X	× 7	
assenger s	seat	X:	Y:	Z:
The R poin	t coordinate Lef	t X:	Y:	Z:
t the 50th t the outsi	percentile			
nd row	Rig		Y:	Z:
The R point	t coordinate Left	t X:	Y:	Z:
it the 50th it the outsi	de of the	L. W	* 7	
rd row	Rigi	ht X:	Y:	Z:

iii. Function Information of Adjustments					
	Driver Seat	Front Passenger Seat	The Outside Of The 2nd Row Seat	The Outside Of The 3rd Row Seat	
Seat Fore/Aft Adjustment *					
Seat Base Tilt Adjustment *					
Seat Height Adjustment *					
Seat Lumbar Support *					
Seat Back Angle Adjustment *					
Upper Seat Back Adjustment					
Side Bolsters					
Seat Cushion Tilt Adjustment					
Seat Cushion Height Adjustment					
Cushion Extension					
Leg Support System					
Movable Arm-Rests*					
Seat Lateral Adjustment	_				
Seat Facing Adjustment	—				
Head Restraint Height Adjustment *					
Head Restraint Tilt Adjustment *					
Seat Belt Anchorage Adjustment *					
Steering Wheel - Horizontal *		Steering Wheel –	Vertical		
Accel Pedal Adjustment *		Brake Pedal Adjustment			
Clutch Pedal Adjustment		Parking Brake Pedal Adjustment			
Others Adjustments					

* Primarily Adjustment Device

Offset Deformable Barrier Frontal Impact	Driver Seat (H-III 50M)	Front Passenger Seat (H-III 50M)	Q6/Q10
Seat Fore/Aft Adjustment	Mid position. Position for the 95th percentile male: notch/mm rearward form foremost position.	Mid position. Position for the 95th percentile male: notch/mm rearward form foremost position.	Position for Q6: notch/mm rearward form foremost position. Position for Q10: notch/mm rearward form foremost position.
Seat Base Tilt Adjustment	□notch/degree upper from flattest position. □Others:	□notch/degree upper from flattest position. □Others:	_
Seat Back Angle Adjustment (Declare one)	□Torso Angle° □notch/degree rearward from foremost position. □Others:	□Torso Angle° □notch/degree rearward from foremost position. □Others:	□Torso Angle° □notch/degree rearward from foremost position. □Others:
Movable Arm-Rests	notch/mm upper form lowest position.	notch/mm upper form lowest position.	Stowed position.
Seat Lumbar Support	□notch/mm forward from rearmost position. □Others:	□notch/mm forward from rearmost position. □Others:	□notch/mm forward from rearmost position. □Others:
Seat Belt Anchorage		notch/mm lower form	As recommended in vehicle handbook for CRS installation
Accel Pedal Adjustment	□notch/mm upper form lowest position. □ Others:	_	_
Brake pedal retraction mechanism	□Fitted (□Engine should be n □Not fitted	an forseconds □ Engi	ine does not need to be ran)
Others (Please elaborate)			

Full Width Frontal Impact	Driver Seat (H-III 5F)	Front Passenger Seat (H-III 5F)	The Outside of 2 nd Row (H-III 5F)
Seat Fore/Aft Adjustment		notch/mm rearward form foremost position.	notch/mm rearward form foremost position.
Seat Base Tilt Adjustment	□notch/degree upper from flattest position. □Others:	□notch/degree upper from flattest position. □Others:	□notch/degree upper from flattest position. □Others:
Seat Height Adjustment		notch/mm upper form lowest position.	notch/mm upper form lowest position.
Seat Back Angle Adjustment (Declare one)	□Torso Angle° □notch/degree rearward from foremost position. □Others:	 Torso Angle° notch/degree rearward from foremost position. Others: 	□Torso Angle° □notch/degree rearward from foremost position. □Others:
Movable Arm-Rests		notch/mm upper form lowest position.	Stowed position.
Head Restraint Tilt Adjustment	 Non-locking,degree rearward form foremost position. Locking, degree rearward form foremost position. Automatically Adjusting 	 Non-locking,degree rearward form foremost position. Locking, degree rearward form foremost position. Automatically Adjusting 	 Non-locking,degree rearward form foremost position. Locking, degree rearward form foremost position. Automatically Adjusting
Seat Lumbar Support	□notch/mm forward from rearmost position. □Others:	□notch/mm forward from rearmost position. □Others:	According to protocol.
Seat Belt Anchorage	notch/mm lower form highest position.	notch/mm lower form highest position.	notch/mm lower form highest position.
Steering Wheel - Horizontal	□notch/mm rearward form foremost position. □Others:	_	_
Accel Pedal Adjustment	□notch/mm upper form lowest position. □ Others:	_	_
Brake pedal retraction mechanism	□Fitted (□Engine should be □Not fitted	e ran forseconds □ En	gine does not need to be ran)
Others (Please elaborate)			

Side Impact Mobile Deformable Barrier Oblique Pole Side Impact	Driver Seat (WorldSID 50M)	Q6/Q10			
Seat Fore/Aft Adjustment	According to protocol.	notch/mm rearward form foremost position.			
Seat Back Angle Adjustment (Declare one)	□Torso Angle° □notch/degree rearward from foremost position. □Others:	□Torso Angle° □notch/degree rearward from foremost position. □Others:			
Movable Arm-Rests	notch/mm upper form lowest position.	Stowed position.			
Seat Belt Anchorage	notch/mm lower form highest position.	As recommended in vehicle handbook for CRS installation			
Others (Please elaborate)					
WorldSID Rib Angle	degree				
 Reference for protocols on WorldSID rib angle. 3.3.5.2.5.1/3.4.5.3.4.1 Adjust the dummy until the thorax tilt sensor coincides with the angle specified by the manufacturer. 3.3.5.2.5.2/3.4.5.3.4.2 If the rib angle is not specified by the manufacturer and the seat back is 23° ± 1°, adjust the dummy until the thorax tilt sensor reads -2° (spine flexion) ± 1° 3.3.5.2.5.3/3.4.5.3.4.3 If no rib angle is specified and the seat back angle is not 23° ± 1°, no further adjustment Version 8.3 5th December 2023 17 of rib angle is required. 					
Head Protection Device, HPD					
The Pressure For Side Airbags	□ Not fitted	 Seat mounted head protection devices Seat mounted head protection devices 			

Front Seat Whiplash					
Seat Belt	 Use generic seat belts anchorage mounting. Use vehicle specific belts and geometry (Please provide the installation mounting and the coordinate information below). 			1 mounting	
Seat Belt Upper Fixed Point	X:	X: Y: Z:			
Seat Belt Lower Fixed Point	X:	Y:	Z:		
Seat Belt Buckle Fixed Point	X:	Y:	Z:		
Seat Belt Pretensioner	□Not fitted □Fitted, do not need to trigger in the test. □Fitted, need to trigger in the test, time to fire:ms				
Active Head Restraint	□Not fitted □Re-active head restraint □Pro-active head restraint, time to fire: ms				
Z Axis Coordinate Of Heel Plane Height					
Seat Rail Angle					

Rear Seat Whiplash	The Outside of 2 nd Row Seat	The Outside of 3 rd Row Seat
Seat Fore/Aft Adjustment	notch/mm rearward form foremost position.	notch/mm rearward form foremost position.
Seat Base Tilt Adjustment	□notch/degree upper from flattest position. □Others:	□notch/degree upper from flattest position. □Others:
Seat Height Adjustment	notch/mm upper form lowest position.	notch/mm upper form lowest position.
Seat Lumbar Support	□notch/mm forward from rearmost position. □Others:	□notch/mm forward from rearmost position. □Others:
Seat Back Angle Adjustment	□Torso Angle° □notch/degree rearward from foremost position. □Others:	□Torso Angle° □notch/degree rearward from foremost position. □Others:
Head Restraint Height Adjustment	 Non-locking, mm upper form lowest position. Locking, notch upper form lowest position. Automatically Adjusting 	 Non-locking, mm upper form lowest position. Locking, notch upper form lowest position. Automatically Adjusting
Head Restraint Tilt Adjustment	 Non-locking,degree rearward form foremost position. Locking, degree rearward form foremost position. Automatically Adjusting 	 Non-locking,degree rearward form foremost position. Locking, degree rearward form foremost position. Automatically Adjusting

Torso Angle Of The 50 th Percentile Male		Left: Right:
	□Marking according to coordinate: Left X:, Right X:	 □Marking according to protocol. □Marking according to coordinate: Left X:, Right X: □Others (Please elaborate)

* Only the main adjustment devices are listed. If other adjustment devices need to be declared, please submit separate documents to explain. If not declared, they will be installed in accordance with protocol.

v. **Setting Parameters of Pedestrian Protection Test** 1. The Normal Ride Attitude with the reference of the vertical (Z) position of any marks, holes, surfaces and identification signs on the vehicle body, above the ground. The height of left front fender from ground is mm, Fender Height at The height of left rear fender from ground is _____mm. the Normal Ride The height of right front fender from ground is _____mm, Attitude The height of right rear fender from ground is mm. □ With adjustable suspension, please provide information about the height from the ground. □ Without adjustable suspension, there is no need to provide information in this field. Fender Height at 40 The height of left front fender from ground is mm, The height of left rear fender from ground is _____mm. km/h The height of right front fender from ground is _____mm, The height of right rear fender from ground is mm. Other 2. Vehicle Body Coordinate Structure and Design Value Coordinate Value **Reference** Point Diagram of Coordinate Axis Direction (X, Y, Z)Z:_____ NO.01 X:_____ Y: SIGN CONVENTIONS Dergitudinal sees sta NO.02 X: Y:_____ Z:_____ X:_____ NO.03 Y: Z:_____ X:____ Y: _____ Z: NO.04 erfiling verlage

Please provide the coordinate reference point on the front 1/3 area of the vehicle (hood, engine bay, etc.) If there are other reference points other than the above, please also provide relevant diagram description.

Z:____

1+Z

Y:

3. Vehicle Mark

NO.05

X:_____

Grid marking coordinates	 Provide CAE data. (Please refer to "Other Remarks" below) Provide physical mark out. 						
Grid points for comparison	The grid origin C0,0		X:	Y:	Z:		
	2 points on	A11,	X:	Y:	Z:		
	WAD2100	A11,	X:	Y:	Z:		

Legform Impact Test	 The height of the lower bumper reference line is less than 425 mm, and the legform impactor is adopted. The height of the lower bumper reference line is more than 500 mm, and the upper legform impactor is adopted. The height of the lower bumper reference lines is between 425~500 mm, adopt legform impactor upper legform impactor
Deployable systems	 Deployable systems Other: Not available
Other Remarks	 All the grid marking coordinates of the CAE data or the physical mark out: 1. Two identifiable points on the vehicle centreline (Y=0). (For example, the emblem in front, the camera on the windshield, etc.) 2. The coordinates of the corner reference points, the corner of bumper, and the outermost ends of the bumper beam/lower rails/cross beam structures relative to the identifiable positions on the vehicle. 3. The coordinates of the headform grid points and the upper legform WAD775mm grid points relative to the identifiable positions on the vehicle.

vi. Acti	ive Safety Syst	tem Information					
	1. System Spe	ecification and Execu	tion Requirem	nent			
		System Name					
	□City System	Autonomous Emergency Braking(AEB)	Speed Range	Max Value	km/h	Min. Value	km/h
		System Name					
	□ Inter-Urban	Autonomous Emergency Braking(AEB)	Speed Range	Max Value	km/h	Min. Value	km/h
	System	☐ Forward Collision Warning(FCW)	Speed Range	Max Value	km/h	Min. Value	km/h
		System Name					
		Autonomous Emergency Braking(AEB)					
Autonomous Emergency	□Vulnerable Road User System	Emergency Braking	Speed Range	Max Value	km/h	Min. Value	km/h
Braking System □Not equipped		Test scenarios where the function is enabled/active: Car-to-Pedestrian Farside Adult (CPFA) Car-to-Pedestrian Nearside Adult(CPNA-25, CPNA-75); Day Night Car-to-Pedestrian Nearside Child(CPNC) Car-to-Pedestrian Longitudinal Adult(CPLA-25, CPLA-50); Day Night Car-to-Bicyclist Nearside Adult(CBNA-50) Car-to-Bicyclist Longitudinal Adult(CBLA-25, CBLA-50)					
	Pedestrian/ Vulnerable Road User Protection System (i.e. a deployable pedestrian/ VRU protection system)	□ Equipped (Please describe disable method in the following blank space);□Equipped and already disable;□Not equipped					
		Disable Method Des	cription:				
	2.System Sett	ing Method and Desc	cription				
	Speed	□Equipped with spe limit device	ed □Can b	e used dur	ring assessment ex	ecution;	Not available
	Control*	□Equipped with Cru Control	^{lise} □Can b	e used dur	ring assessment ex-	ecution;□	Not available

Braking Syst	n whether it will affect the Auton tem of the vehicle to be tested, in a assessment execution method.	□Yes; □No				
Timing of FCW Collision Warning	□ Can be set (Please describe se	etting method as be	low); □Cannot be set			
Setting Metho	od Description:					
Timing of AEB Braking Application	□Can be set (Please describe se	tting method as bel	ow); □Cannot be set			
Setting Metho	od Description:					
100km on a m and roadside f	y the vehicle manufacturer, drive nixture of urban and rural roads v furniture to 'calibrate' the sensor ntion and braking.	with other traffic	 Drive on test track to 'calibrate' the sensor system Drive on a mixture of urban and rural roads to 'calibrate' the sensor system No need to execute 			
If requested b before every t	y the OEM an initialisation run n	nay be included	□Yes □No			
10km/h for			im diameter 30m at a speed less than p, and then manoeuvre the VUT into			
Deactivate Fu	nction of AEB and/or FCW		 Cannot be deactivate Can be manually deactivate (Please describe the deactivate method in the following blank) 			
Deactivate Mo	ethod Description:					
Supplementa ry warning for the FCW	In addition to the required audio up display, belt jerk, brake jerk o		nore sophisticated warning like head- feedback.			
system	□ Equipped;□Not equipped	Warning Method:				
Reversible pre- tensioning of the belt in the pre-crash phase						
AEB Non- Availability		visual warning (e.g	of activations, and upon reaching this activated.			
Availability □Equipped;□Not equipped State Restoring Method Description:						

Attention:
□Applicant understands that when the active safety test item is conducted by the laboratory according to the assessment standard, it will inevitably collide, so the body damage caused by it cannot be completely avoided. If it is possible to carry out the continuous assessment item after the damage, it will continue to carry out, and the tested vehicle will be returned to the applicant after all active safety items are completed.
□In case that the tested vehicle is unable to continue the test rating due to physical damage during the active safety test, the implementing agency, the laboratory and the tested manufacturer will determine the responsibility through negotiation, and bear the relevant expenses according to the negotiation results.

	1. System Specification and Execution Requirement								
	System Name								
	Warning Signal	□Audible;□`	□Audible;□Visual;□Haptic;□Other:						
	Equipped with ESC system**	□Equipped;□	∃Not eq	uipped					
	 ** The tested vehicle shall be equipped with the following requirements: (1) Electronic Stability Control according to UN R140 standard of the United Nations, or (2) Electronic Stability Control specified in Section 5.6 of Vehicle Safety Testing Directions 42-3 announced by the Ministry of Transportation and Communications, or (3) Electronic Stability Control specified in Vehicle Safety Testing Directions 85 announced by the Ministry of Transportations 								
	Lane Departure Warning (LDW)	Speed Range	Max Value	km/h	Min. Value	km/h			
	LDW)	Speed Range	Max Value	km/h	Min	km/h			
	Emergency Lane Keeping (ELK)	Speed Range	Max Value	km/h	Min	km/h			
Lane Support Systems □Not equipped		Dotherwise for each lateral velocity, two calibration runs shall be performed in order to determine when the system activates. Compare steering wheel torque, vehicle speed or yaw rate of both runs and determine where there is a notable difference that identifies the location of intervention ribing the location of LKA and/or ELK intervene, so as not to							
	interfere with the system intervention for each test. 2.System Setting Method and Description								
	Lane Departure Warning	-		se describe setting et	method i	in the following			
	Setting Method Description:								
	Lane Keeping Assist (LKA)	□Can be set (Please describe setting method in the following blank);□Cannot be set							
	Setting Method Description:								
	If requested by the vehicle man maximum of 100km on a mixtu rural roads with other traffic an to 'calibrate' the sensor system. acceleration and braking.	ure of urban an d roadside fur	are of urban and system d roadside furniture Drive on a mixture of urban and rur			and rural roads			
	If requested by the OEM an init be included before every test ru		may	□Yes □No					

****Before every test run, drive the VUT around a circle of maximum diameter 30m at a speed less than 10km/h for one clockwise lap followed by one anticlockwise lap, and then manoeuvre the VUT into position on the test path.
--

	System Specification and Execution Requirement							
	Speed Assista	Speed Assistance Systems Information						
	Information			□Equipped;□ Not equipped				
	Speed Assista Function	ince Systems	 Speed Limit Information Function (SLIF)***** Speed Limitation Function (SLF)***** Intelligent Speed Assistance (ISA) Intelligent Adaptive Cruise Control (iACC) 					
	***** This fu options		as an optional	feature and can be selected in combination with other				
Speed Assistance Systems □Not equipped	Speed Limit Information Function(SL IF)	Display Method	\Box The speed	limit information must be shown at any time limit information must be accessible at any time with peration (Please describe operation method in the blank)				
			Operation Me	ethod:				
			□Camera;□	Map;□Camera and Map				
		Camera or map based or a combination of both	□Equipped;[□Not equipped with subsign recognition				
			frequently (at	Not updated If map-based data must be updated t least quarterly) and automatically for the first six at user action. (ex. sending DVD/USB to customer				
			□Audible;□ in the followi	Haptic;□Head-Up Display;□Other (Please describe ing blank)				
		Supplementary Warning Function	Description of	of other supplementary warning functions:				
		Mobile devices connected to the vehicle network	connected	limit information could be shown on mobile devices to the vehicle network. limit information map-based data could be provided devices connected to the vehicle network.				

	1.System Specificatio	n and Exe	cution Re	quirement					
	System Name								
	Warning Type	The 1st	Row	Rear 1s	st Row	Rear 2nd	Row	Rea	ur 3rd Row
Occupant Status Monitorin g □Not equipped	Visual Signal								
	Audible Signal			C]				
	Seating Positions of S	BR	□Seatin	ng Positions	of DMS	□S Sea		sitions of	f Removable
Status Monitorin g □Not	The 1st Row Rear 1st Row D Rear 2nd Row G J Rear 3rd Row Marking method : F equipped.	Rear 1 Rear 2 Rear 3	A B C The 1st Row A Ist Row D E F D D r 1st Row G H I Rear 1st Row G r 2nd Row J K L Rear 2nd Row J r 3rd Row J K L Rear 3rd Row J on with function; For seating position without function; In the second						
		Driv Seat		Front seat passengers	Rear 1st Row	Rear 2nd Row	Rear 3r Row	d Re	mark
	Equipped with DSM								e samples of
	Equipped with multip signal	le 🗆							triggering condition are as follows:
	•Equipped with visua signal								The car has reached a
	Triggering condition over the second signal	of							forward speed of ookm/h
	•Equipped with initial audible signal							2.	The engine has been
	Triggering condition of initial audible signal	ot							running for •• seconds
	•Equipped with final audible signal							3.	Turn on ignition
	Triggering condition of final audible signal	of						4.	switch "Forward Motion" for 00 meters
	2.System Setting Met	hod and D	escriptior	1					
	Seat Belt Reminder Device		l switch o owing bla		t rear row p	position (Plea	se describ	e switch	off method in

unctions quipped	Switch off operation description:
	 Manual switch off air bag function at front seat passenger (Please describe switch off method in the following blank) Switch off operation description:

	System Specification and Execution Requirement						
	Monitoring	System Name					
			Distance from the front wheel center to the centre of the 95th percentile eyellipse: m				
Blind Spot Monitoring	Blind Spot Monitoring System Function	Blind Spot Detection	□Equipped;□Not equipped				
System □Not equipped		Blind Spot Visualization	□Equipped;□Not equipped				
		□Audible;□Visual;□Real-Time Camera View;□ Other(Please describe in the following blank) Description of other warning functions:					

vii. Attached File

1. The power type of the test vehicle is electric/hybrid drive, and electrical system specifications and charging operation documents shall be provided.

DEESS Turne				Working	g Voltage	V	
REESS Type	RELSS Type			REESS	REESS Capacity		h
Chemical Ingred Electrolyte capa		Total Vo		ume: <u>L</u>	Specific Gravity:		Color:
Maintenance Sh Device	utdown	🗆 Not availabl	e□ Availa	ble, positio	n:		
Automatic Disc	onnect	□ Not availabl	e□ Availa	ble, positio	n:		
Automatic Disc Operation Indica		□ Not availabl	e□ Availa	ailable, position:			
	Charging status of REESS □ SOC: _% ~_% or normal operation situation □ Voltage: _V ~_V						
Relevant power	system compor						
Power system la	yout chart						
	Traction moto	or					
	REESS*3						
	Electric energ	gy conversion sys	stem				
Power system components ^{*2}	Electrical con	iverter					
components	Auxiliaries fo	or running					
	Coupling syst	tem for charging	system				
	Other						

*1. For fuel cells, please provide other relevant information such as fuel type and storage capacity.

- *2. Indicate respective locations (e.g., inside/outside the cabin) and attach drawings and photographs. Additionally, specify where to check for protection from electric shock
- *3. Indicate where they are fixed and the method of fixation.
- 2. Requirements for protection from electric shock offered by the manufacturer:
 - □ Measuring Isolation Resistance: Please provide the working voltage, current type and measurement location of each power system components, and assist in wiring.
 - □ Measuring the Residual Voltage: Please provide the working voltage information and measurement location of high voltage components, and assist in wiring.
 - □ Measuring the Residual Energy: Please define the capacitance information and measurement location of each capacitor and assist in wiring
- 3. If there are any collision avoidance related systems, please provide the closing mode to avoid operation in collision test.
- 4. Please provide the disassembly method of steering wheel and airbag.
- 5. Please provide the disassembly method of steering wheel and airbag.
- 6. If the seat is electric, please provide the wiring pin position definition diagram.
- 7. If the head restraint is pro-active, please provide control mode or trigger signal information.
- 8. If the design position setting of Q6/Q10 moving parts is different, please provide separate setting positions.
- 9. If there are other body coordinate reference points, please provide relevant diagram description.
- 10. During the pedestrian protection test, the front cover needs to be in a dynamic development state. Please provide the necessary information on the trigger system, specific details of the sensing, trigger and deployment systems.
- 11. Please provide the pedestrian protection test body marking grid.
- 12. Vehicle fit with Automatic Door Locking (ADL) function or not.

 \Box Without ADL.

- \Box ADL is fitted as standard and by default always ON.
- □ ADL is not fitted as standard, or not by default always ON, but fitted to the test variant.

13.	According to t	he requirement	nts of protocol	2.1.6.2.4, pro	vide the score	for all five gri	d points per test speed for
	AEB City.						
	AEB City : Prec	licted score fo	or CCRs-AEB				_
	Test Speed	-50 %	-75 %	100 %	+75 %	+50 %	
	10 km/h						
	15 km/h						
	20 km/h						
	25 km/h						
	30 km/h						
	35 km/h						
	40 km/h						
	45 km/h]
	50 km/h						1

14. Inter-urban system of AEB:

According to the requirements of protocol 3.10.7.4.3.3, provide the brake pedal actuation speed and control, which can be used as the benchmark for equipment control and adjustment during the test.

15. According to the requirements of protocol 2.4.3.2.5, provide the score for all five grid points per test speed for AEB Inter-Urban.

(1) AEB Inter-orban : Predicted score for CCRS-PCW										
Test Speed	-50 %	-75 %	100 %	+75 %	+50 %					
30 km/h										
35 km/h										
40 km/h										
45 km/h										
50 km/h										
55 km/h										
60 km/h										
65 km/h										
70 km/h										
75 km/h										
80 km/h										

(1) AEB Inter-Urban : Predicted score for CCRs-FCW

(2) AEB Inter-Urban : Predicted score for CCRm-AEB

Test Speed	-50 %	-75 %	100 %	+75 %	+50 %
30 km/h					
35 km/h					
40 km/h					
45 km/h					
50 km/h					
55 km/h					
60 km/h					
65 km/h					
70 km/h					
75 km/h					
80 km/h					

(3) AEB Inter-Urban : Predicted score for CCRm-FCW

Test Speed	-50 %	-75 %	100 %	+75 %	+50 %
50 km/h					
55 km/h					

60 km/h			
65 km/h			
70 km/h			
75 km/h			
80 km/h			

16. Vulnerable Road User System of AEB:

(1) According to the requirements of protocol 3.11.6.4.5, provide the test speed of stop testing when the manufacturer predicts no performance of the system in each situation test as the reference information for assessment execution.

(2) According to the requirements of protocol 3.11.6.4.6, provide the test situation to predict the collision speed. Provide; Not provide.

speed. In Tovide, Inot provide.										
Test Seeneries	Car-to-Pedestrian Farside Adult CPFA		<u>Ca</u>	<u>r-to-Pe</u>	destria	n Nearside	e Adult		Car-to-Pedestrian Nearside Child	
Test Scenarios			CPNA-25			CPNA-75			CPNC	
	<u>Test</u> <u>Speed</u>	Predicted collision <u>speed</u> (Provided by the manufacture <u>r</u>)	<u>Test</u> <u>Speed</u>	colli spe (Prov by manuf	icted sion eed vided the facture 0 Night	<u>Test</u> <u>Speed</u>	<u>colli</u> <u>spo</u> (Prov <u>by</u> <u>manuf</u>	icted ision eed vided the facture y Night	<u>Test</u> <u>Speed</u>	Predicted collision <u>speed</u> (Provided by the manufacture <u>r</u>)
Predicted Collision	20		20			20			20	
<u>Speed</u> (km/h)	25		25			25			25	
<u></u> ()	30		30			30			30	
	35		35			35			35	
	40		40			40			40	
	45		45			45			45	
	50		50			50			50	
	55		55			55			55	
	60		60			60			60	
Target speed (km/h)		8		5		5		5		
Visual Obstruction	None		None		None		None			
Impact location 50%		25%		75%		50%				

	Car-to-Pedestrian Longitudinal			Car-to-Bicyclist Nearside			Car-to-Bicyclist			
Test Scenarios	<u>Adult</u> CPLA-50				<u>Adult</u> CBNA-50			Longitudinal Adult CBLA-50		
	Predicted collisionTestSpeedSpeed(Provided by the manufacturer)DayNight		<u>Test</u> Speed	Predic (Prov	ted collision speed ided by the ufacturer)	<u>Test</u> Speed	Predicted collision speed (Provided by the manufacturer)			
	20				20			25		
Predicted Collision	25				25			30		
<u>Speed</u> (km/h)	30				30			35		
_	35				35			40		
	40				40			45		
	45				45			50		
	50				50			55		
	55				55			60		
	60				60					
Target speed (km/h)		5				15			15	
Visual Obstruction		None				Yes			None	
Impact location		50%				50%			50%	
Test Scenarios	Car-to-Pedestrian Longitudina CPLA-25			al Adult	CBLA-25					
	<u>Test</u> Speed		rovide nanufa	d by t cturer	he	<u>Test</u> Speed	Predicted th <u>T_{FC}</u> (Provided <u>manufa</u>	tw 1 by the		
	50					50			1	
Predicted the time o FCW	<u>f</u> 55					55			1	
<u>rcw</u>	60					60				
	65					65				

70 75

80

20 None

25%

70

75

80

5

None

25%

Target speed (km/h)

Visual Obstruction

Impact location

