

Audi Q5

KEAD2025

02/08/2018 15:56:29

Vehicle Data

GENERAL

ID	24
VehID	KEAD2025
Year	0
Mileage	0
Manufacturer	Audi
Model	Q5
Class	
Client	
Project	
Description	Kempton University
Chassis number	
Extra info	

WEIGHTS AND DIMENSIONS

GVWR	0.0 kg
FGAWR	0.0 kg
RGAWR	0.0 kg
WheelBase	2820.0 mm

	Front Axle	Rear Axle
Track	1610.0 mm	1610.0 mm
Rolling radius	0.0 mm	0.0 mm

	Front L	Front R	Rear L	Rear R
Kerb weight	500.0 kg	500.0 kg	500.0 kg	500.0 kg
Wing height	0.0 mm	0.0 mm	0.0 mm	0.0 mm

VEHICLE AND RIG CONFIGURATION

Drive	Four Wheel Drive			
Stiffness	Medium			
	Front Axle		Rear Axle	
	Outboard		Outboard	
	Independent		Independent	
Brake location	Outboard		Outboard	
Susp layout	Independent		Independent	
Drv Tq Reaction	Unknown		Unknown	
	Front L	Front R	Rear L	Rear R
Table extender	Standard	Standard	Standard	Standard
Large turntable	No	No	No	No

ALIGNMENT DATA

	Front Axle		Rear Axle	
	0 deg		0 deg	
	0 deg		0 deg	
Set back	0 deg		0 deg	
Thrust angle	0 deg		0 deg	
	Front L	Front R	Rear L	Rear R
Kerb toe	0 deg	0 deg	0 deg	0 deg
Kerb camber	0 deg	0 deg	0 deg	0 deg
Kerb castor	0 deg	0 deg	0 deg	0 deg
Kingpin incl.	0 deg	0 deg	0 deg	0 deg
Offset (ET)	0 mm	0 mm	0 mm	0 mm

TYRES AND RIMS

	Front Axle		Rear Axle	
Tyre size				
Tyre make				
Tyre type				
Infl. pressure	0 kPa		0 kPa	
Wheel size				
Wheel type				

Brake make

Brake type

MISCELLANEOUS

Last test date	03/07/2018
Archived	No

USER LABELS

Engine Type	TDI Quattro
MOI Tank Condition	Full
MOI Front Seat Mass	
MOI Rear Seat Mass	
User label 5	
User label 6	
Suspension Type	
User label 8	
User label 9	
User label 10	
Suspension Type	
User label 8	
User label 9	
User label 10	

USER DROPDOWNS

Dropdown Title
User Dropdown 2
User Dropdown 3
User Dropdown 4
User Dropdown 5
User Dropdown 6

VEHICLE NOTES

FRONT AXLE NOTES

REAR AXLE NOTES

SETUP 1 INFORMATION

Type=CGMOI

Description Initial CG/MOI Load Setup

ID 1

Wheels fitted Yes

Suspension At rebound

Steering motor fitted No

	Front L	Front R	Rear L	Rear R
X lift control	Fixed	Fixed	Fixed	Fixed
Y lift control	Fixed	Fixed	Fixed	Fixed
D lift control	Fixed	Fixed	Fixed	Fixed
Lifted bounce jog	230.00 mm			
Lifted pitch jog	0.00 deg			
Lifted roll jog	0.00 deg			
Test bounce jog	0.00 mm			
Test pitch jog	0.00 deg			
Test roll jog	0.00 deg			
Reference bounce jog	-71.80 mm			
Reference pitch jog	0.21 deg			
Reference roll jog	0.00 deg			
	Front L	Front R	Rear L	Rear R
X pad positions	2138.99 mm	2138.99 mm	-2138.9 mm	-2139.0 mm
Y pad positions	1114.99 mm	-1114.9 mm	1114.99 mm	-1114.9 mm
D pad positions	-0.0085 deg	-0.0004 deg	-0.0007 deg	-0.0019 deg
X wheel centre clamped	1409.98 mm	1407.79 mm	-1409.5 mm	-1410.8 mm
Y wheel centre clamped	810.683 mm	-809.54 mm	804.819 mm	-802.17 mm
Z wheel centre clamped	349.488 mm	348.896 mm	356.467 mm	355.680 mm
X wheel centre lifted	1406.90 mm	1403.74 mm	-1399.3 mm	-1401.4 mm
Y wheel centre lifted	790.663 mm	-789.71 mm	787.403 mm	-784.80 mm
Z wheel centre lifted	568.582 mm	570.401 mm	584.844 mm	586.260 mm
X clamp positions	602 mm	603 mm	-603 mm	-603 mm
Y clamp positions	772 mm	-770 mm	769 mm	-765 mm
Z clamp positions	95 mm	95 mm	95 mm	95 mm

Max roll angle	8.00 deg
Max pitch angle	6.00 deg

NOTES

SETUP 2 INFORMATION

Type=KC

Description	Ride Height 1
ID	2
Pad centring	Force
Transmission lock	None
Brakes on	Yes

Wheel mode	Front Axle		Rear Axle	
	Road		Road	
	Front L	Front R	Rear L	Rear R
X lift control	Float	Float	Float	Float
Y lift control	Float	Float	Float	Float
D lift control	Clutch	Clutch	Clutch	Clutch
Steering left lock	526.58 deg			
Steering right lock	-526.26 deg			
Lifted bounce jog	106.05 mm			
Lifted pitch jog	0.00 deg			
Lifted roll jog	0.00 deg			
On pad bounce jog	-16.05 mm			
On pad pitch jog	0.09 deg			
On pad roll jog	0.16 deg			
	Front L	Front R	Rear L	Rear R
X lift offset	1402.25 mm	1400.36 mm	-1361.9 mm	-1363.8 mm
Y lift offset	785.45 mm	-783.47 mm	777.08 mm	-775.08 mm
D lift offset	0 deg	0 deg	0 deg	0 deg
X pad offset	1413.55 mm	1411.69 mm	-1409.0 mm	-1409.7 mm
Y pad offset	810.12 mm	-807.69 mm	804.12 mm	-801.11 mm
D pad offset	0 deg	0 deg	0 deg	0 deg
X wheel centre	1413.47 mm	1411.33 mm	-1408.9 mm	-1409.8 mm
Y wheel centre	812.24 mm	-811.69 mm	807.25 mm	-804.95 mm
Z wheel centre	354.31 mm	353.94 mm	353.97 mm	353 mm

Toe	0.12 deg	0.15 deg	0.16 deg	0.02 deg
Camber	-0.62 deg	-0.71 deg	-0.82 deg	-0.87 deg
Bounce force	17225.47 N			
Roll moment	58.91 Nm			
Pitch moment	785.76 Nm			
	Front L	Front R	Rear L	Rear R
Static forces	4171.59 N	4152.94 N	4462.75 N	4438.19 N

NOTES

SETUP 3 INFORMATION

Type=KC
Description 2 UP
ID 3
Pad centring Force
Transmission lock None
Brakes on Yes

	Front Axle		Rear Axle	
Wheel mode	Road		Road	
	Front L	Front R	Rear L	Rear R
X lift control	Float	Float	Float	Float
Y lift control	Float	Float	Float	Float
D lift control	Clutch	Clutch	Clutch	Clutch
Steering left lock	526.58 deg			
Steering right lock	-526.26 deg			
Lifted bounce jog	106.05 mm			
Lifted pitch jog	0.00 deg			
Lifted roll jog	0.00 deg			
On pad bounce jog	-31.00 mm			
On pad pitch jog	0.10 deg			
On pad roll jog	0.19 deg			
	Front L	Front R	Rear L	Rear R
X lift offset	1400.91 mm	1398.83 mm	-1357.4 mm	-1359.2 mm
Y lift offset	783.66 mm	-782.21 mm	775.06 mm	-773.52 mm
D lift offset	0 deg	0 deg	0 deg	0 deg
X pad offset	1413.61 mm	1411.62 mm	-1410.4 mm	-1411.2 mm
Y pad offset	809.72 mm	-807.92 mm	804.1 mm	-801.69 mm
D pad offset	0 deg	0 deg	0 deg	0 deg
X wheel centre	1413.61 mm	1411.39 mm	-1410.6 mm	-1411.5 mm
Y wheel centre	812.41 mm	-812.23 mm	807.69 mm	-805.8 mm
Z wheel centre	353.39 mm	352.91 mm	353.01 mm	351.92 mm

Toe	0.16 deg	0.01 deg	0.19 deg	0.06 deg
Camber	-0.83 deg	-0.87 deg	-1.08 deg	-1.09 deg
Bounce force	18652.86 N			
Roll moment	-10.05 Nm			
Pitch moment	832.20 Nm			
	Front L	Front R	Rear L	Rear R
Static forces	4502.03 N	4523.77 N	4805.56 N	4821.49 N

NOTES

SEQUENCES, TESTS, AND RUNS

2 MOI Sequence

4 Standard K&C test - Validation

- | | | |
|----------|--|----------------|
| 1 (Setup | 3) Vertical Bounce test (brakes on) Engine Off | |
| 1 Run 1 | | 03/07/2018 Man |
| 2 (Setup | 3) Vertical Bounce test (brakes on) Engine ON | |
| 1 Run 1 | | 03/07/2018 Man |
| 3 (Setup | 3) Roll Test at Constant Axle Load (brakes on) | |
| 1 Run 1 | | 03/07/2018 Man |
| 4 (Setup | 3) Steering Geometry test | |
| 1 Run 1 | | 03/07/2018 Man |
| 5 (Setup | 3) Longitudinal Compliance at 0mm Y offset | |
| 1 Run 1 | | 03/07/2018 Man |
| 6 (Setup | 3) Lateral Compliance at 0mm X offset (anti-phase) | |
| 1 Run 1 | | 03/07/2018 Man |
| 7 (Setup | 3) Lateral Compliance at 0mm X offset (in phase) | |
| 1 Run 1 | | 03/07/2018 Man |
| 8 (Setup | 3) Aligning Torque Compliance (anti-phase) | |
| 2 Run 2 | | 03/07/2018 Man |
| 9 (Setup | 3) Aligning Torque Compliance (in phase) | |
| 1 Run 1 | | 03/07/2018 Man |

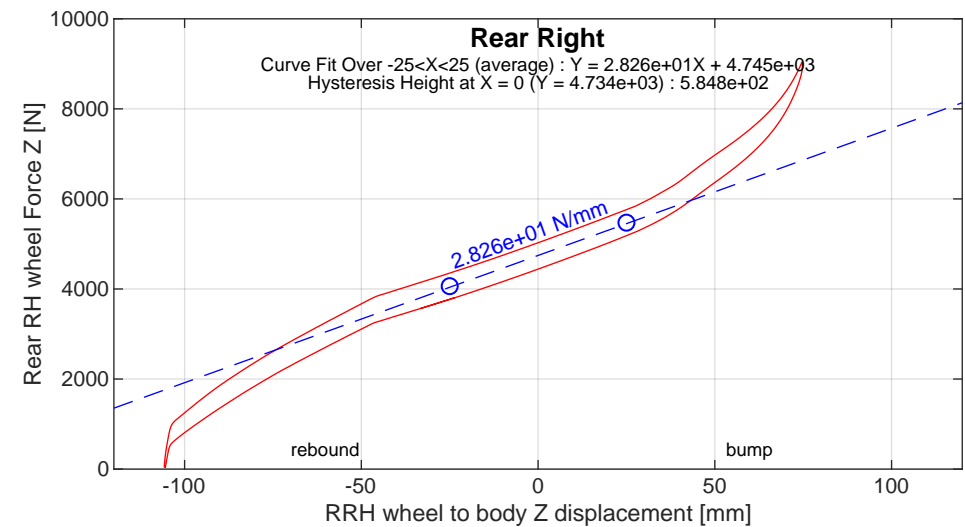
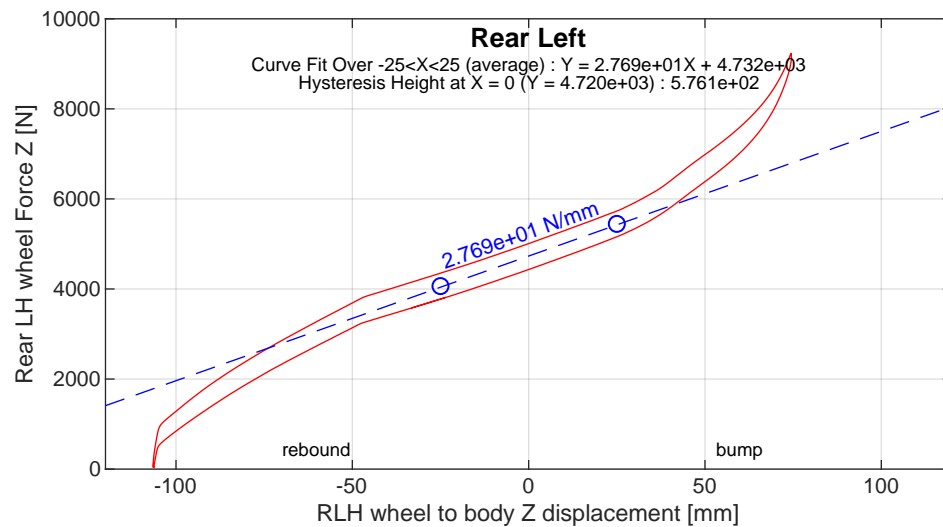
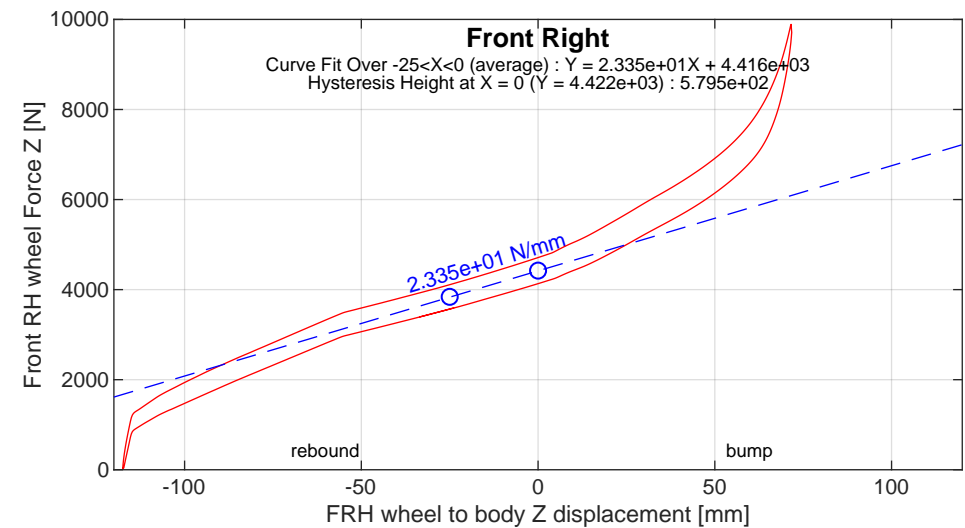
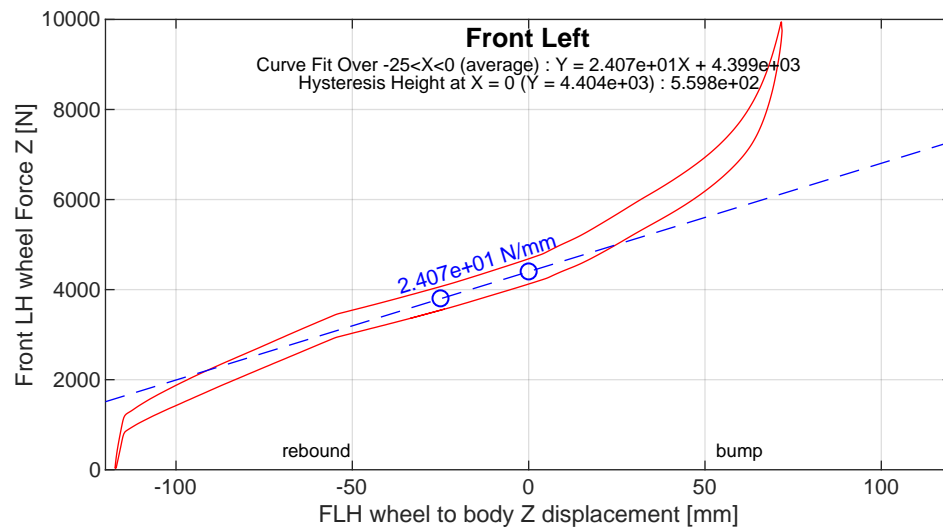
6 Dynamic Tests

- | | | |
|----------|---------------------------|----------------|
| 1 (Setup | 3) Dynamic Bounce (1Hz) | |
| 1 Run 1 | | 03/07/2018 Man |
| 2 (Setup | 3) Dynamic Bounce (1.5Hz) | |
| 1 Run 1 | | 03/07/2018 Man |
| 3 (Setup | 3) Dynamic Bounce (2Hz) | |
| 1 Run 1 | | 03/07/2018 Man |
| 5 (Setup | 3) 0.5g cornering test | |
| 1 Run 1 | | 03/07/2018 Man |

7 VPS cornering

- | | | |
|----------|------------------------|----------------|
| 1 (Setup | 3) 0.5g cornering test | |
| 1 Run 1 | | 03/07/2018 Man |
| 2 (Setup | 3) 0.5g cornering test | |
| 1 Run 1 | | 03/07/2018 Man |
| 3 (Setup | 3) 0.5g cornering test | |
| 1 Run 1 | | 03/07/2018 Man |
| 4 (Setup | 3) 0.5g cornering test | |
| 1 Run 1 | | 03/07/2018 Man |

5 (Setup	3) 0.5g cornering test	
	1 Run 1	03/07/2018 Man
6 (Setup	3) 0.5g cornering test	
	1 Run 1	03/07/2018 Man
7 (Setup	3) 0.5g cornering test	
	1 Run 1	03/07/2018 Man



Bounce

Audi Q5

Wheel Rates

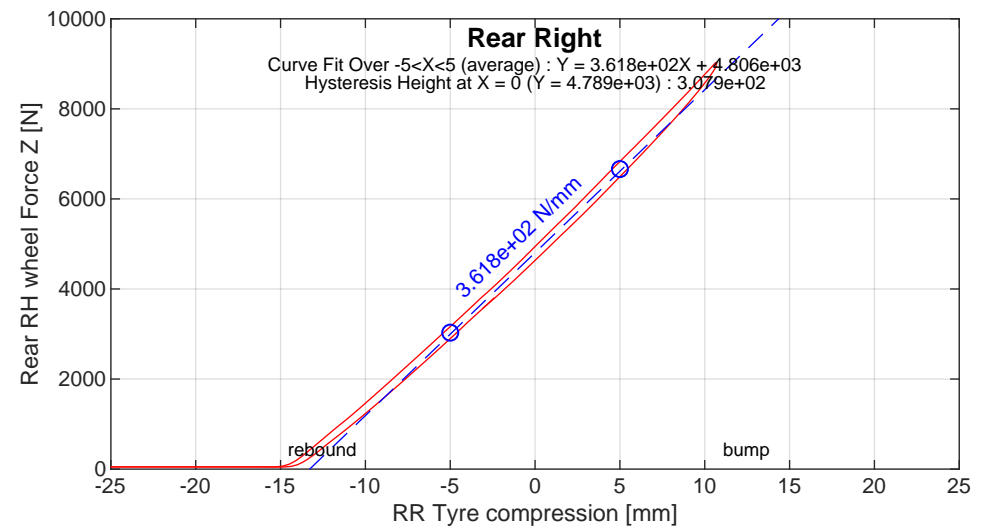
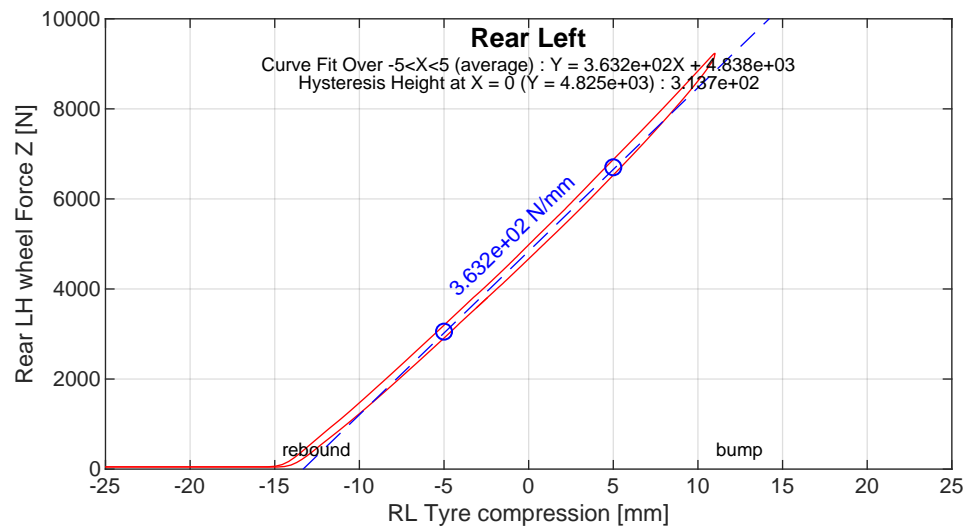
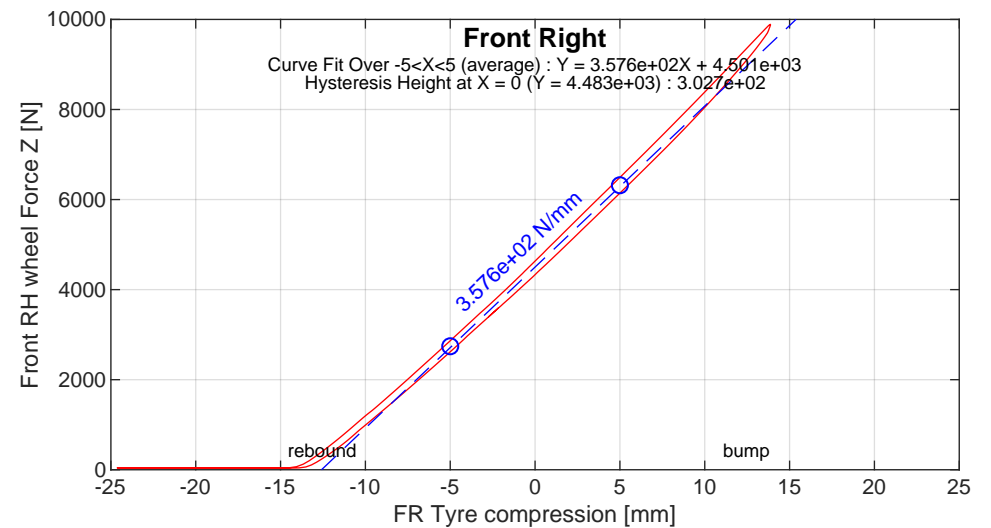
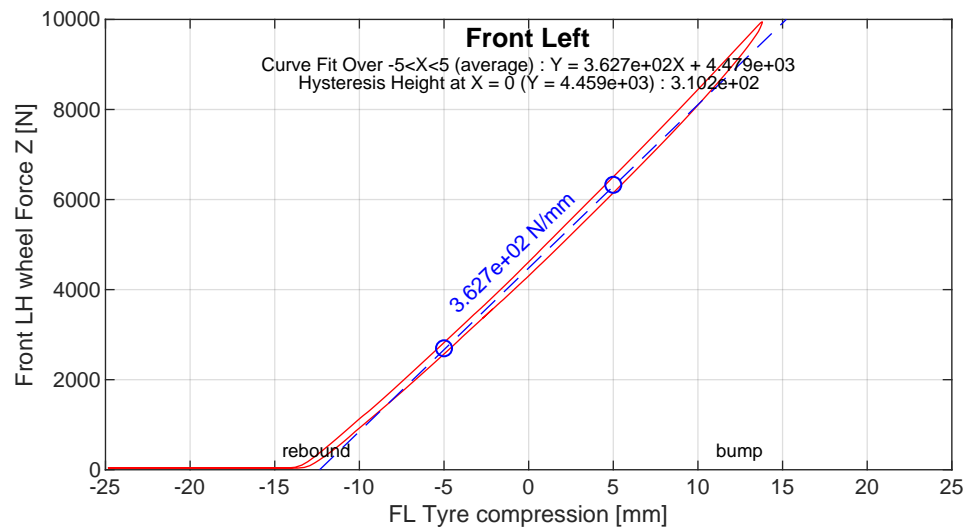
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine Off : Test #1 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



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Bounce

Audi Q5

Tyre Radial Rates

Co-ordinate system : ISO Ground-fixed

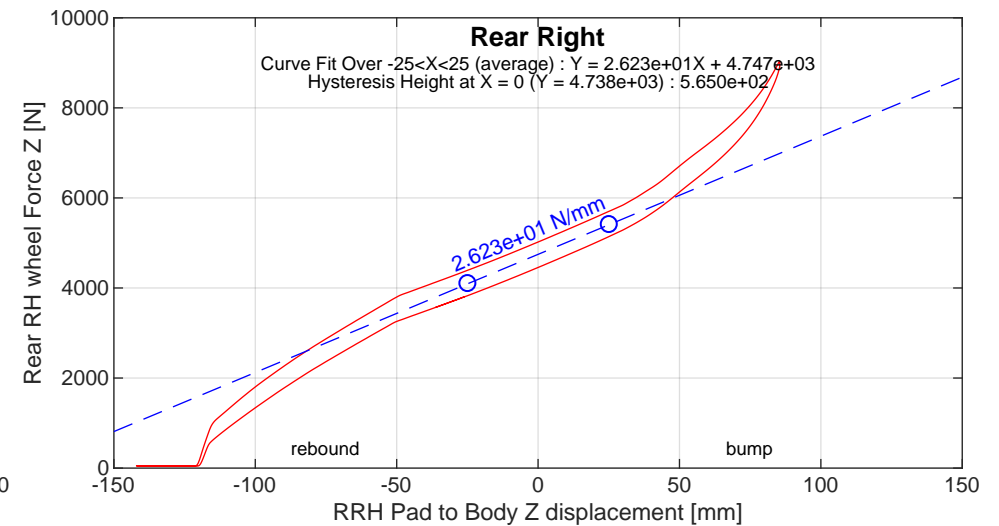
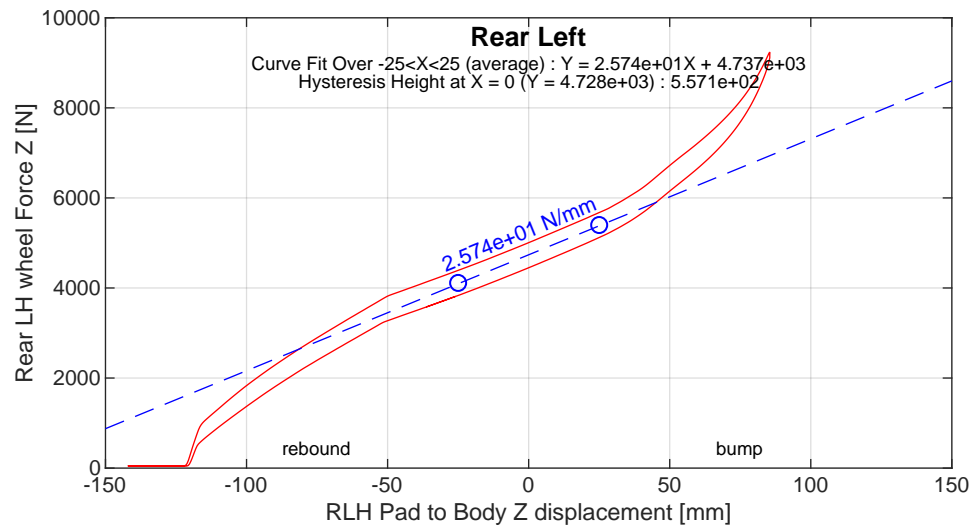
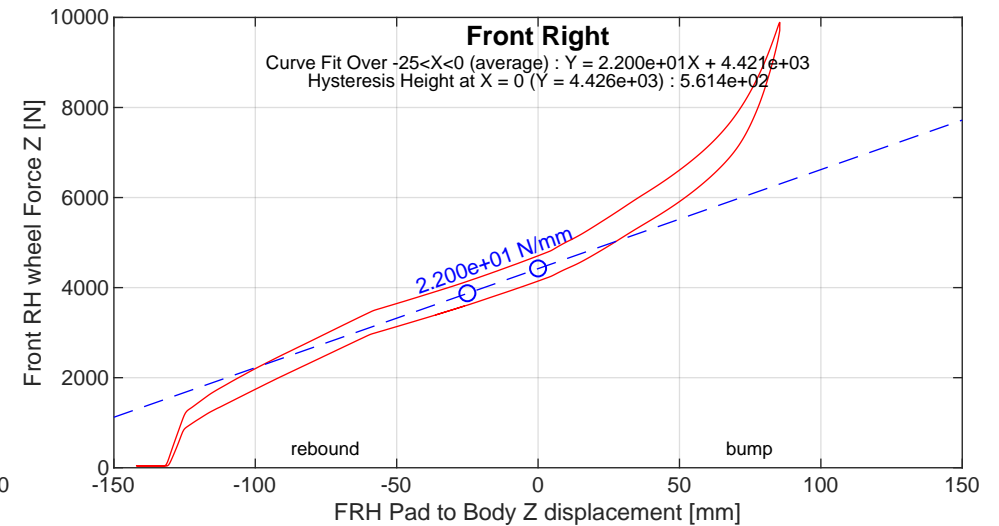
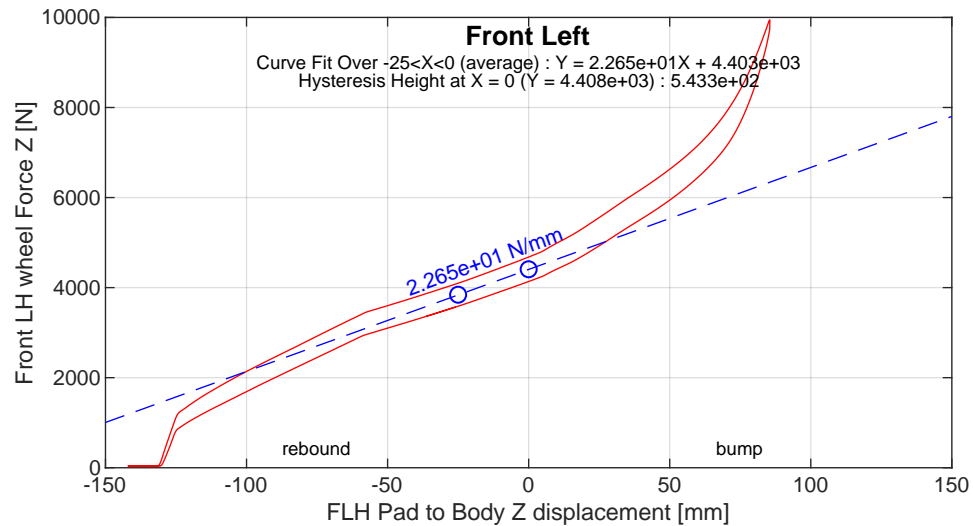
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Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



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Bounce

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Ride Rates

Co-ordinate system : ISO Ground-fixed

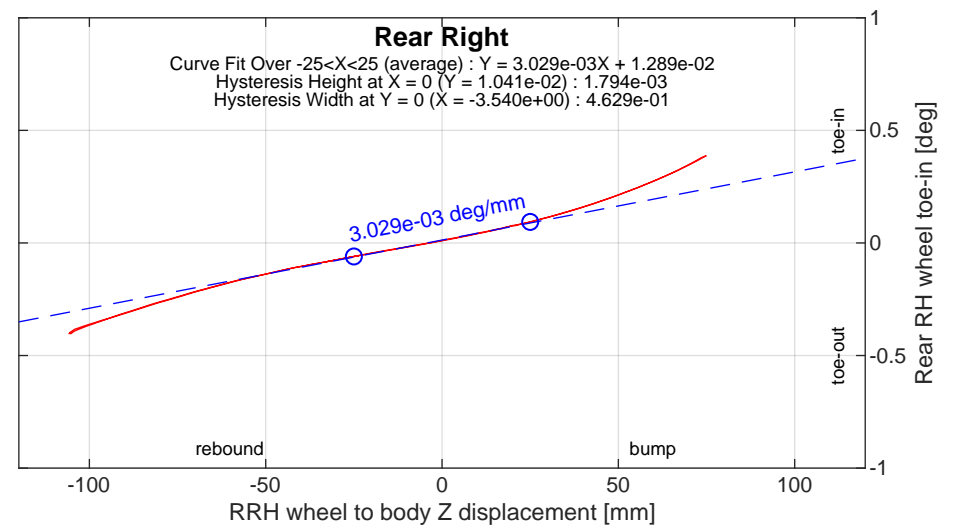
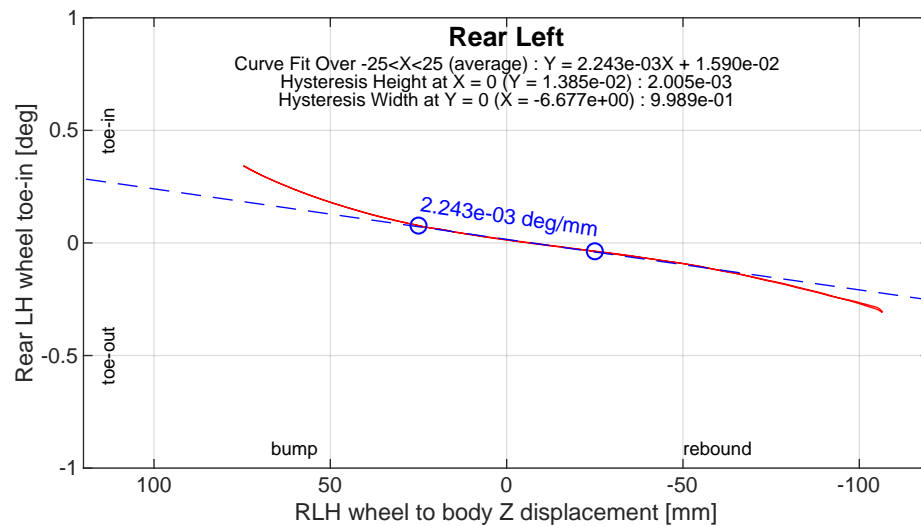
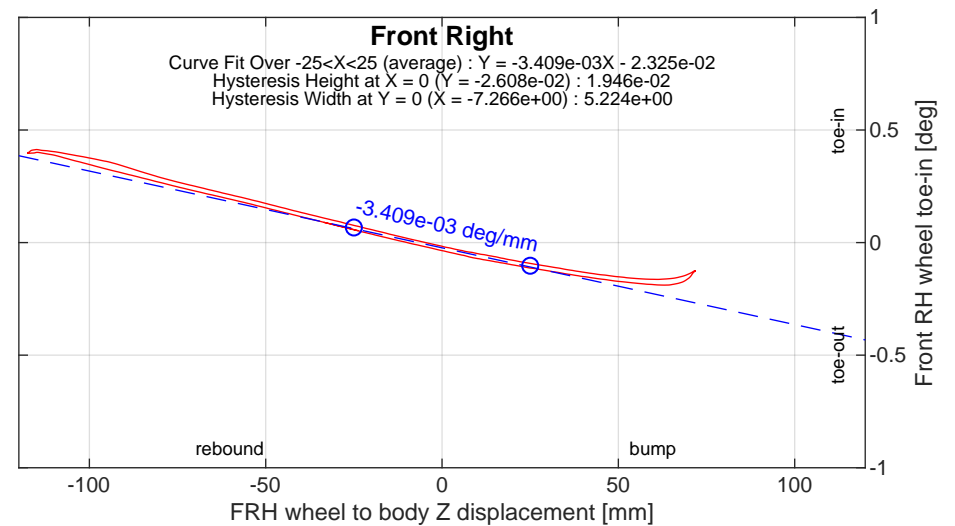
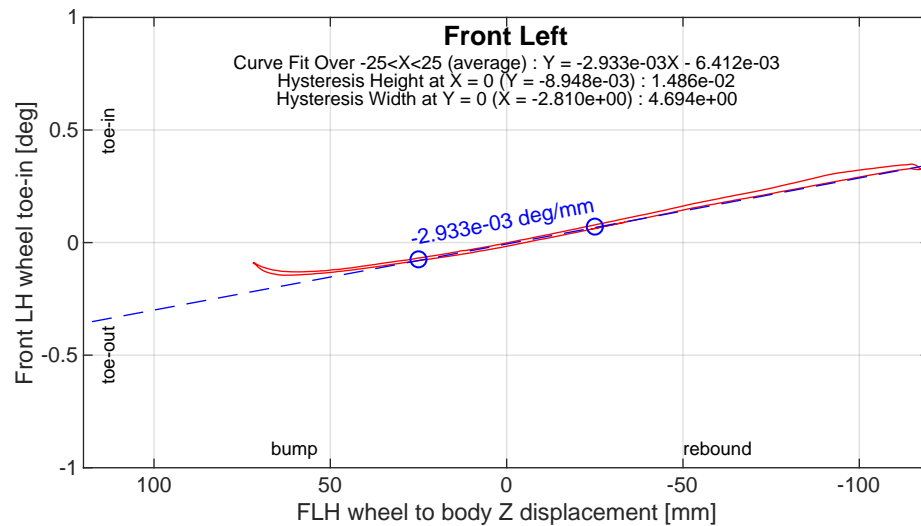
03 July 2018

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Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine Off : Test #1 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



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Bounce

Audi Q5

Bump Steer

Co-ordinate system : ISO Ground-fixed

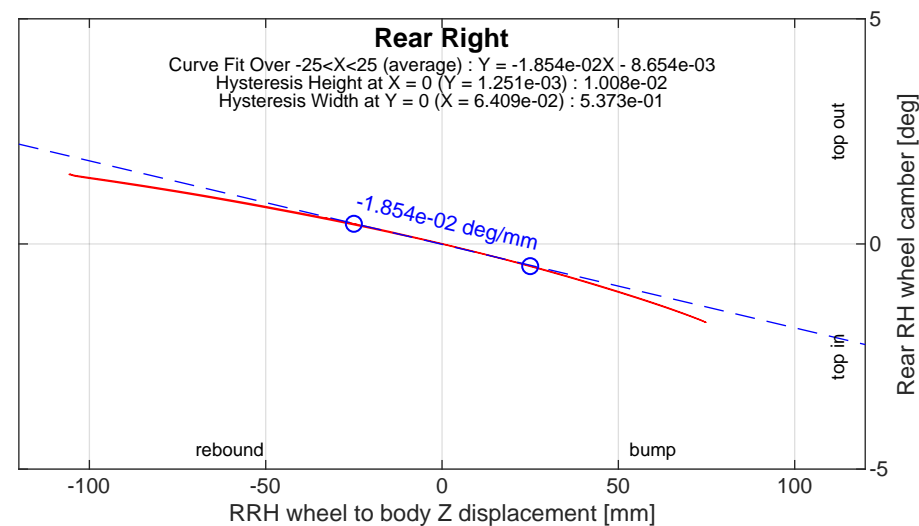
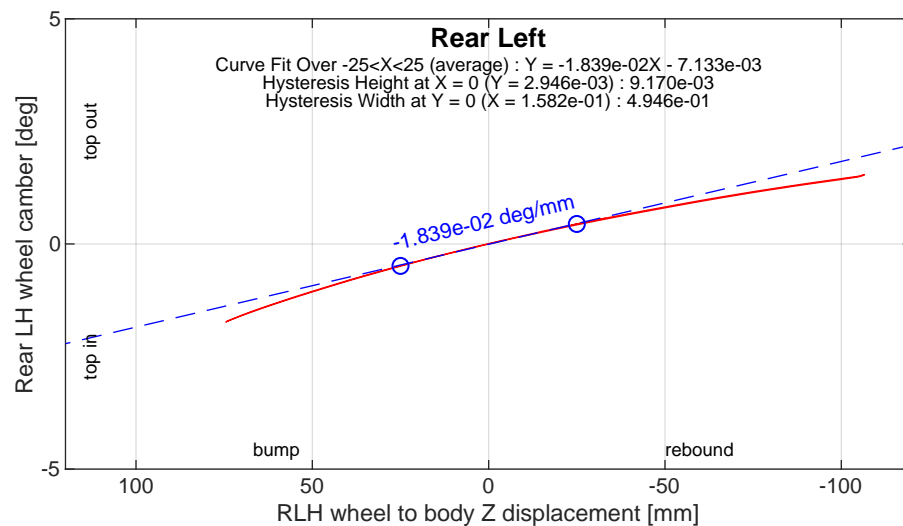
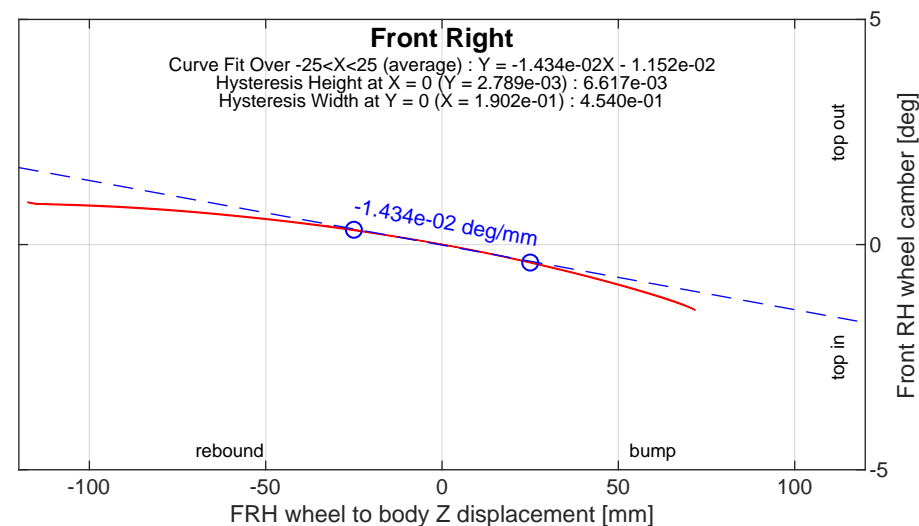
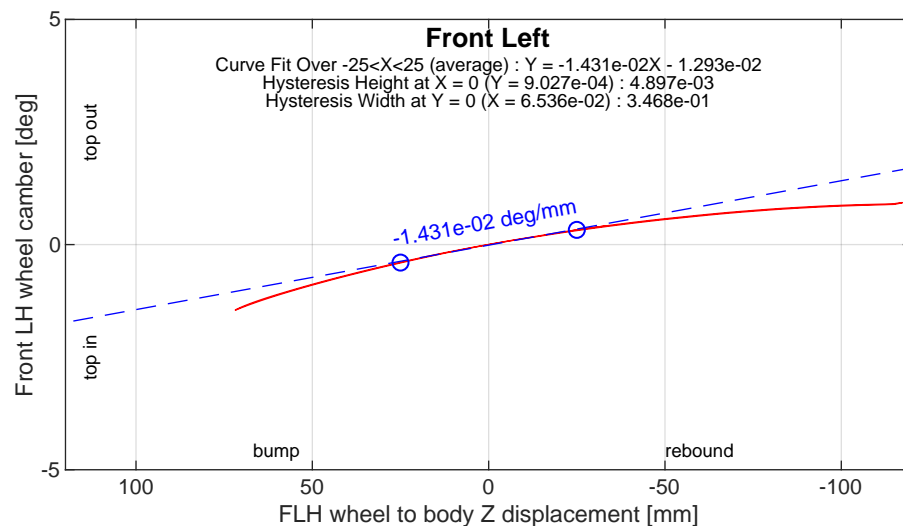
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Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes

AB
Dynamics

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Bounce

Audi Q5

Bump Camber

Co-ordinate system : ISO Ground-fixed

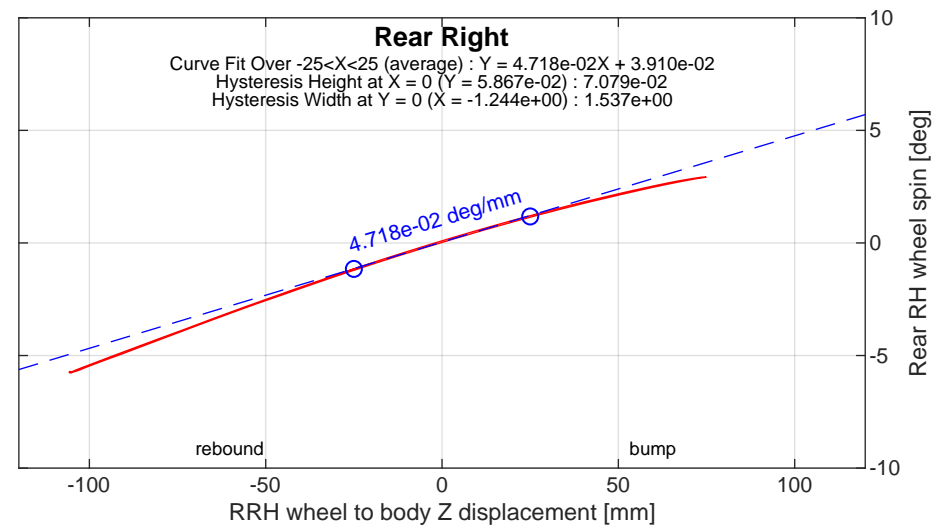
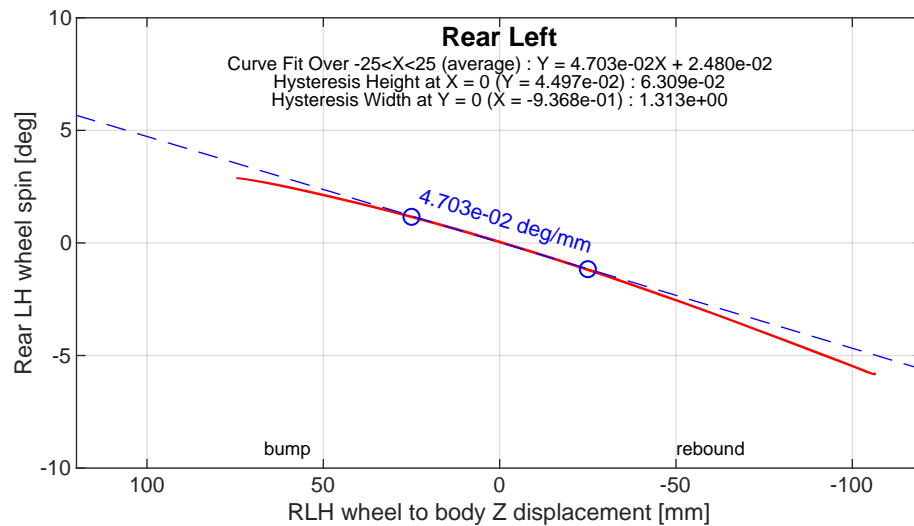
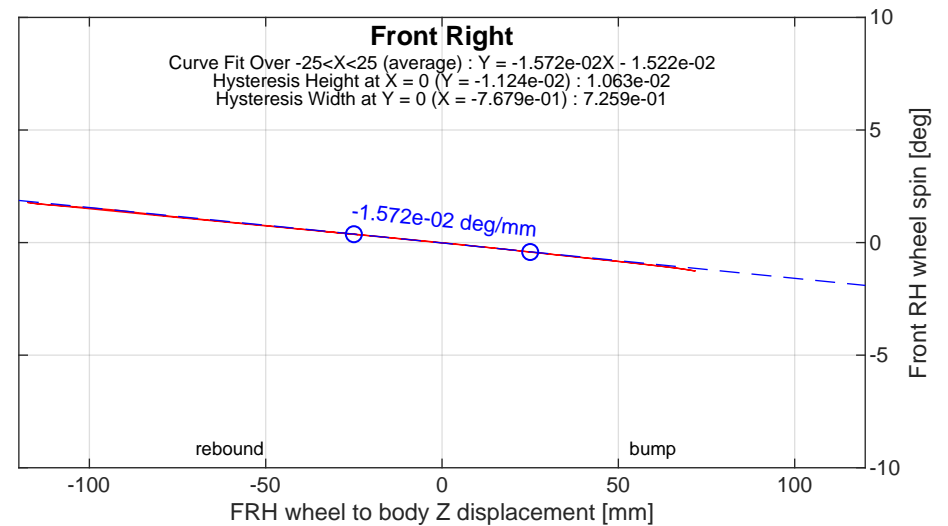
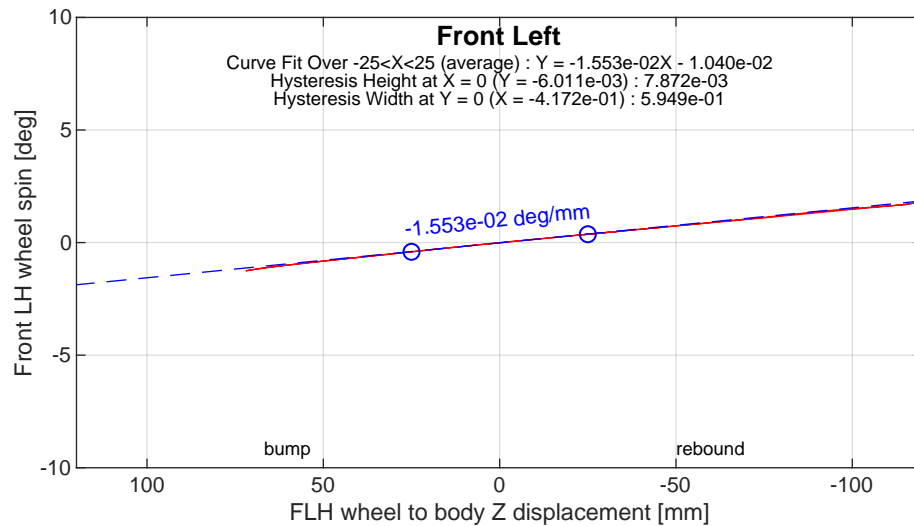
03 July 2018

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Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



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Bounce

Audi Q5

Bump Spin

Co-ordinate system : ISO Ground-fixed

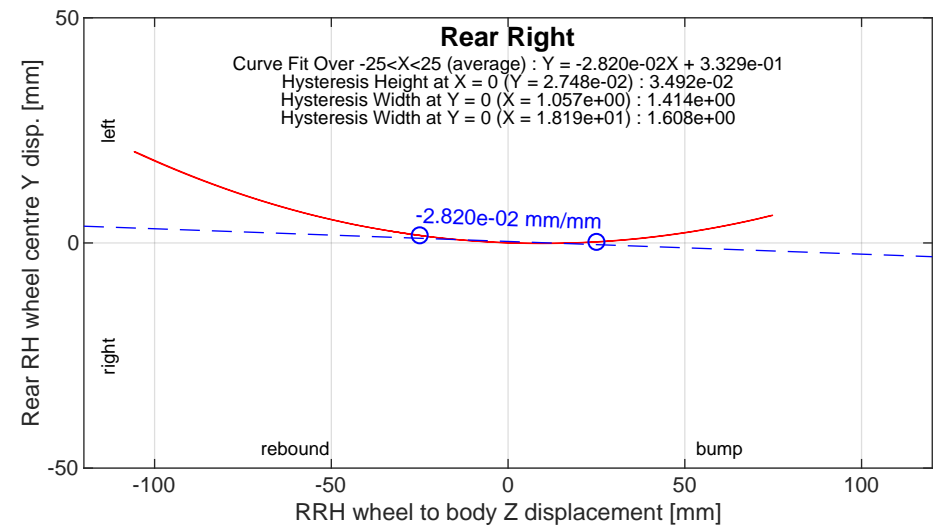
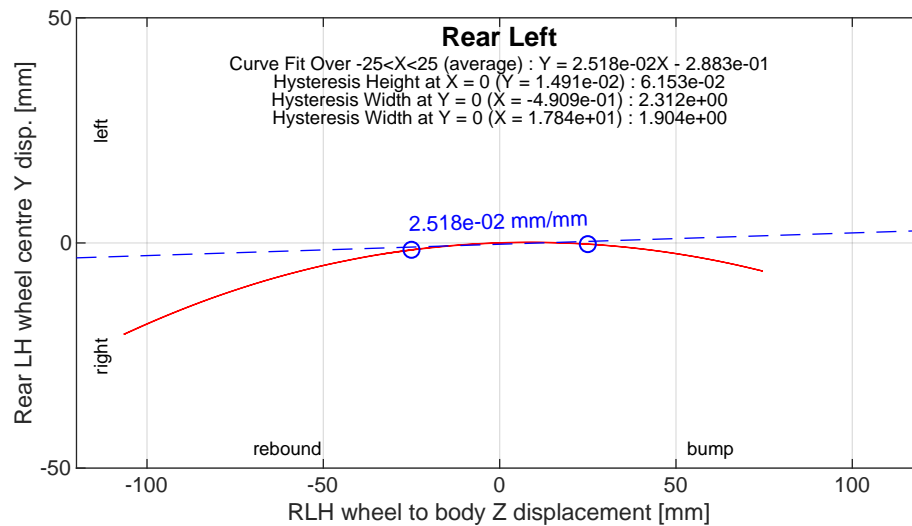
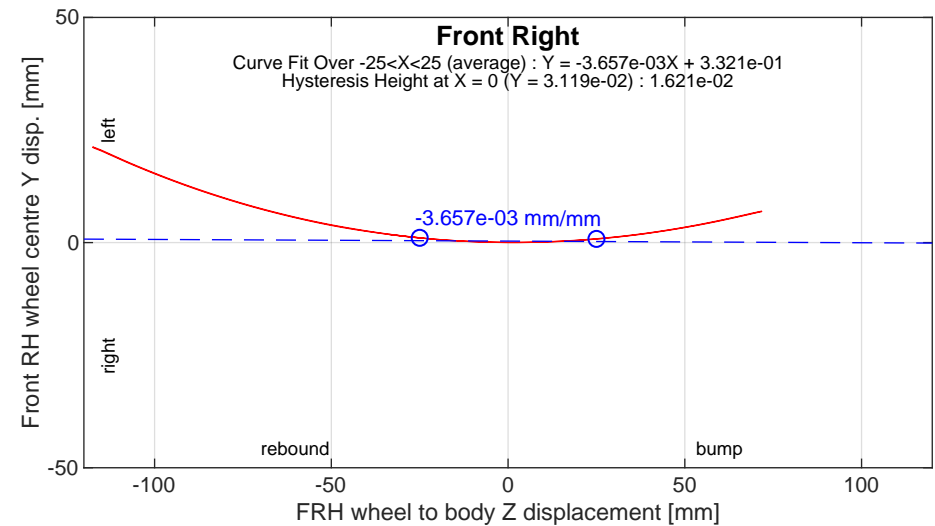
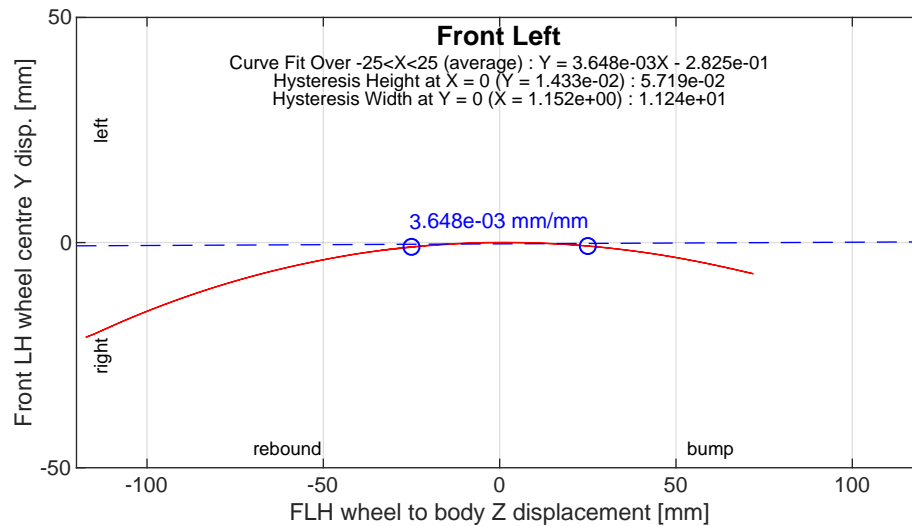
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Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



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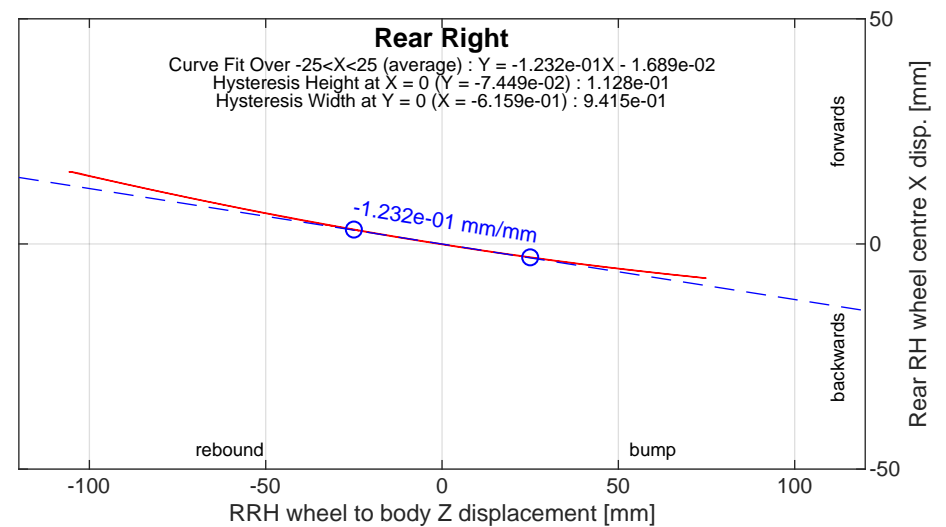
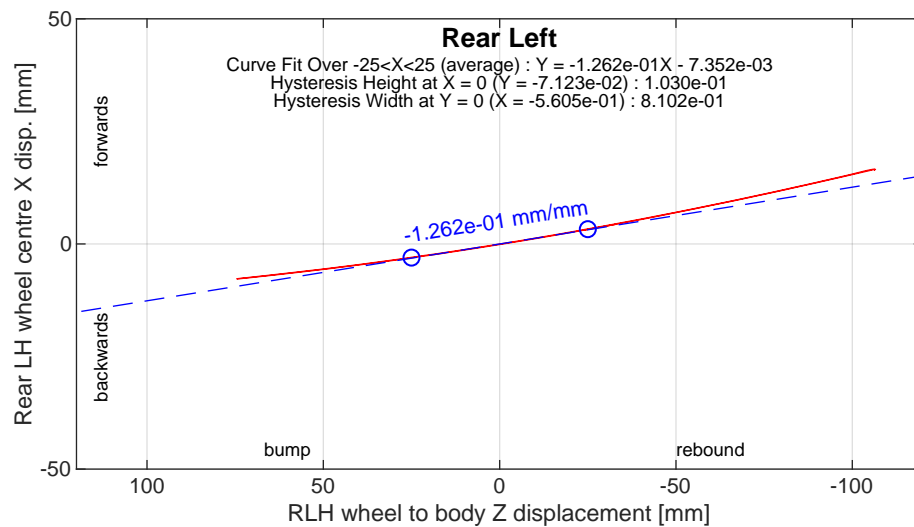
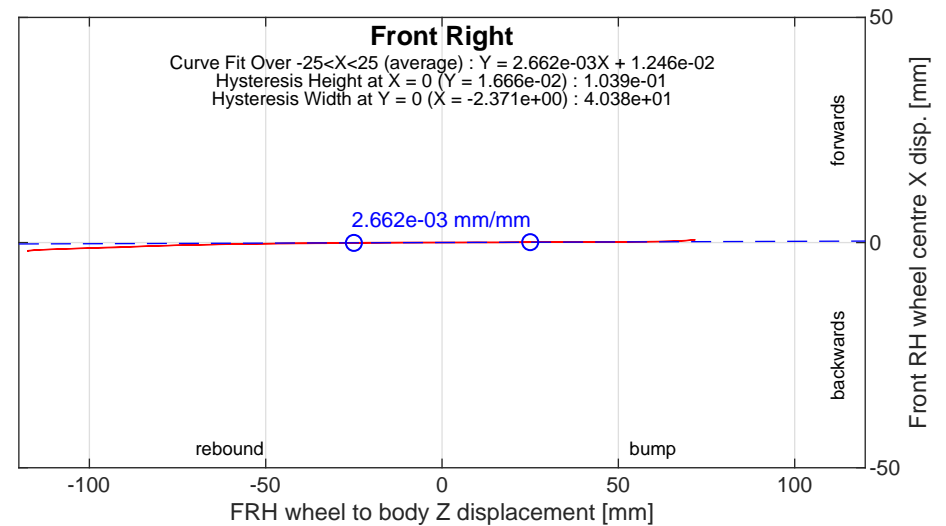
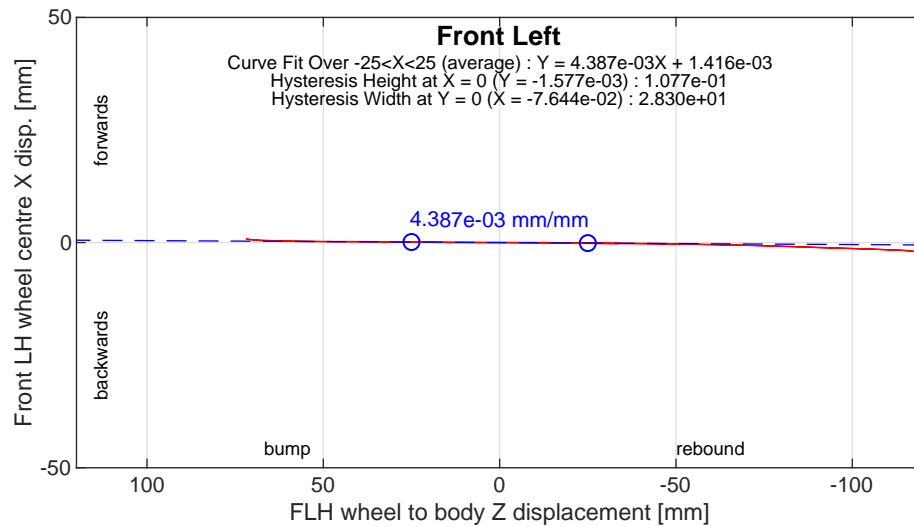
Bounce
Audi Q5
Lateral Wheel Centre Displacement
Co-ordinate system : ISO Ground-fixed
03 July 2018

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Vertical Bounce test (brakes on) Engine Off : Test #1 of 9
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Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



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SPMM Serial Number 31



Bounce

Audi Q5

Wheel Recession

Co-ordinate system : ISO Ground-fixed

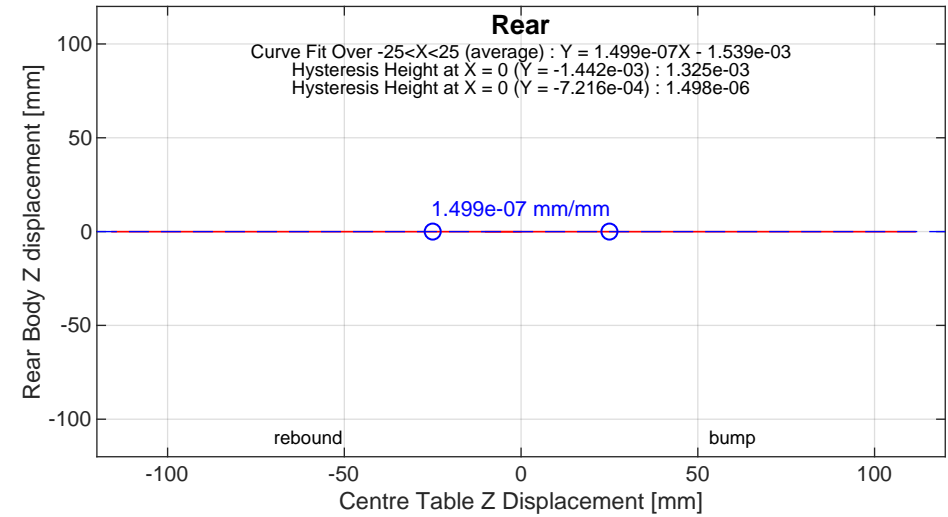
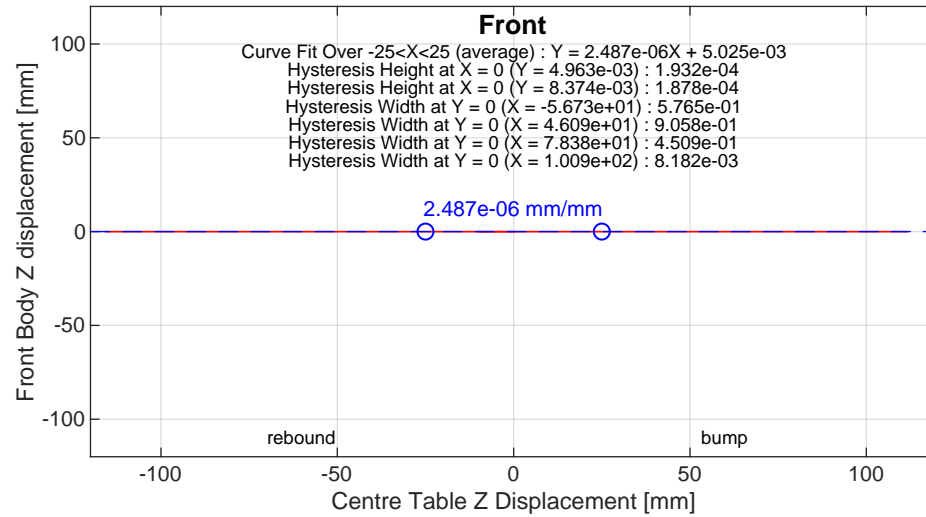
03 July 2018

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 Vertical Bounce test (brakes on) Engine Off : Test #1 of 9
 Test Run #1, Cycle #2
 Input : Linear, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : No
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



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 SPMM Serial Number 31



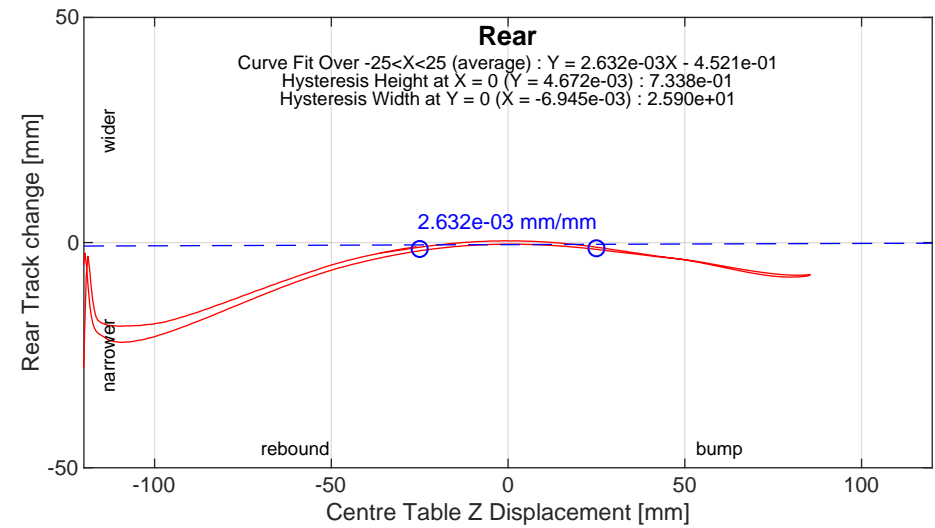
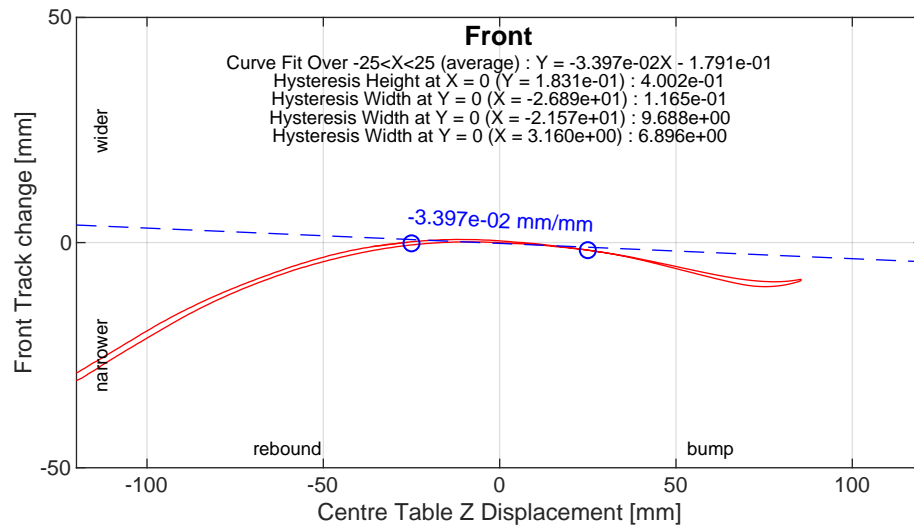
Bounce
Audi Q5
Body Vertical Displacement
Co-ordinate system : ISO Ground-fixed
03 July 2018

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Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



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SPMM Serial Number 31



Bounce Audi Q5 Track Change

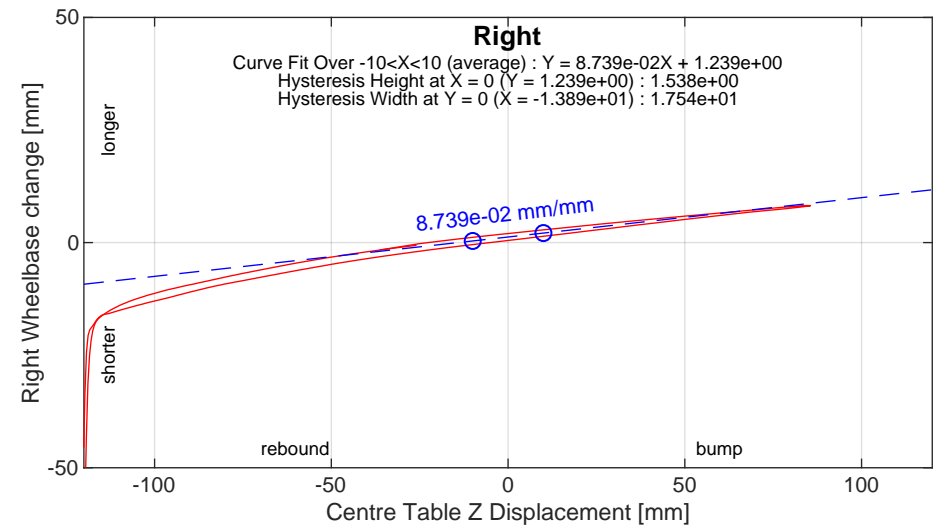
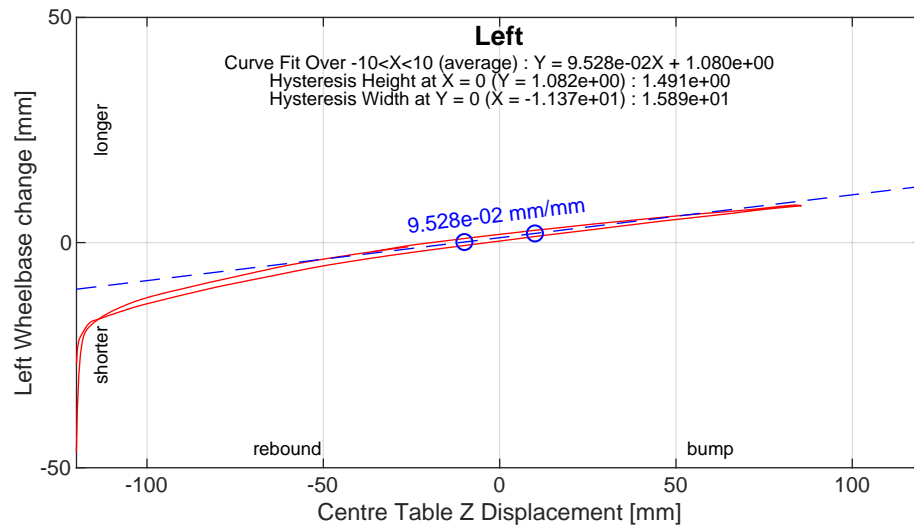
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Transmission Lock : None
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 Engine On : No
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 Rear ARB Fitted : Yes



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 SPMM Serial Number 31



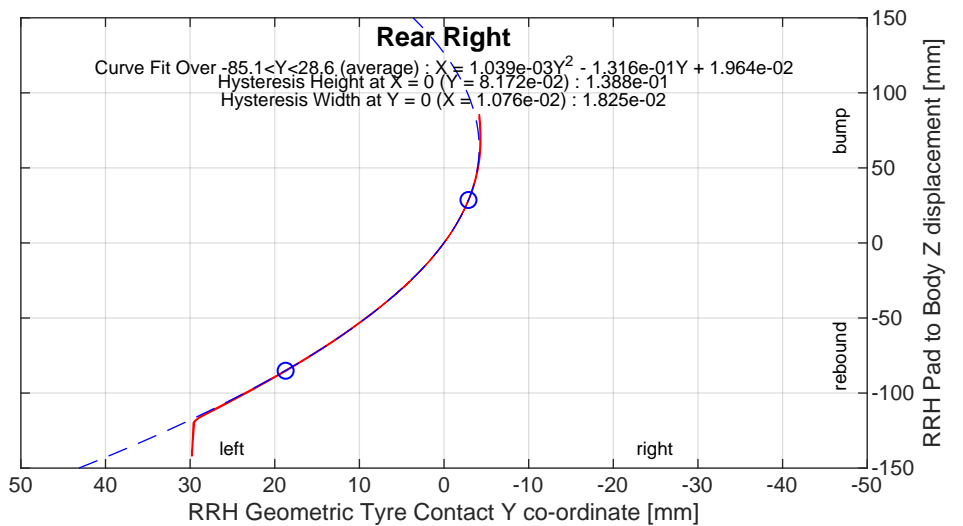
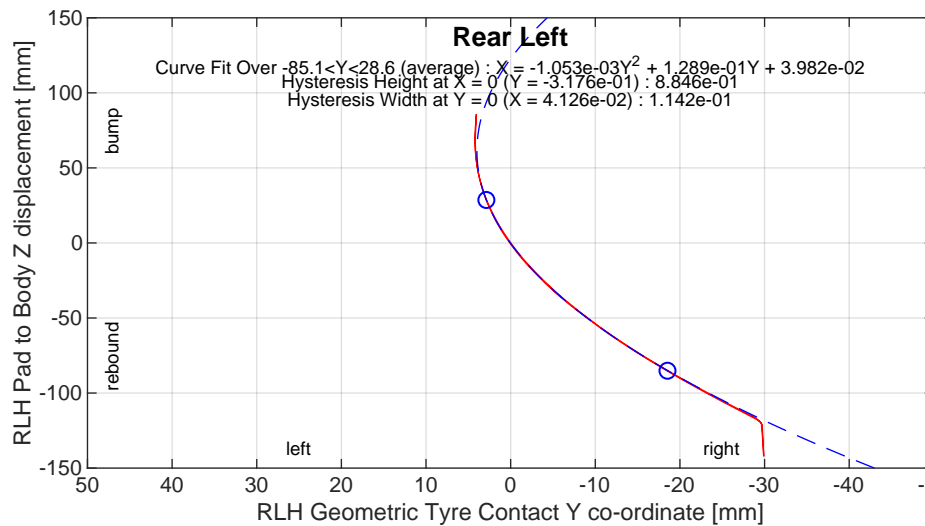
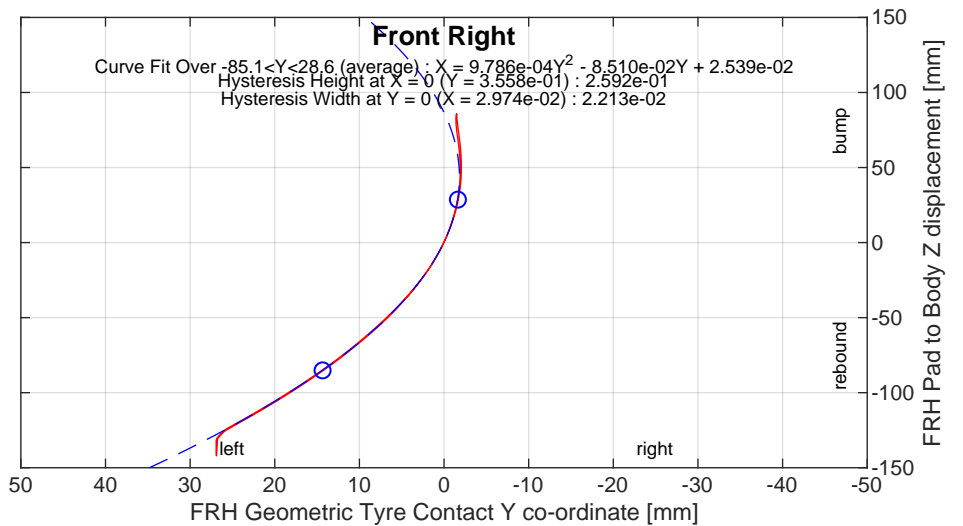
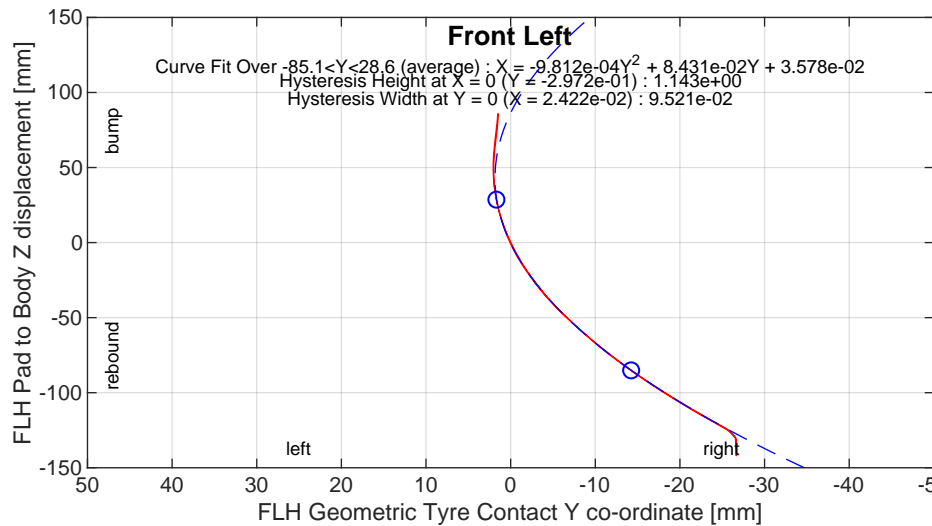
Bounce
Audi Q5
Wheelbase Change
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Vertical Bounce test (brakes on) Engine Off : Test #1 of 9
 Test Run #1, Cycle #2
 Input : Linear, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : No
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



Bounce

Audi Q5

Roll Centre Curve Fits

Co-ordinate system : ISO Ground-fixed

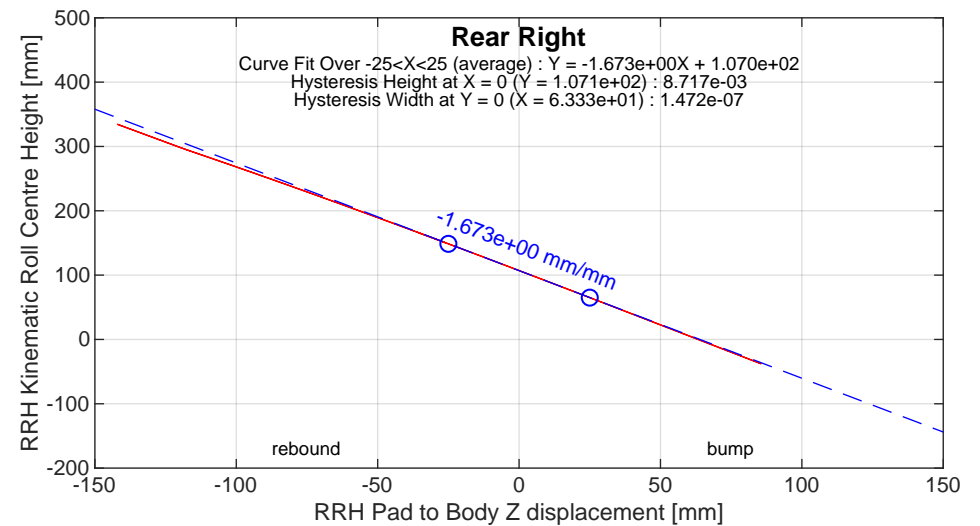
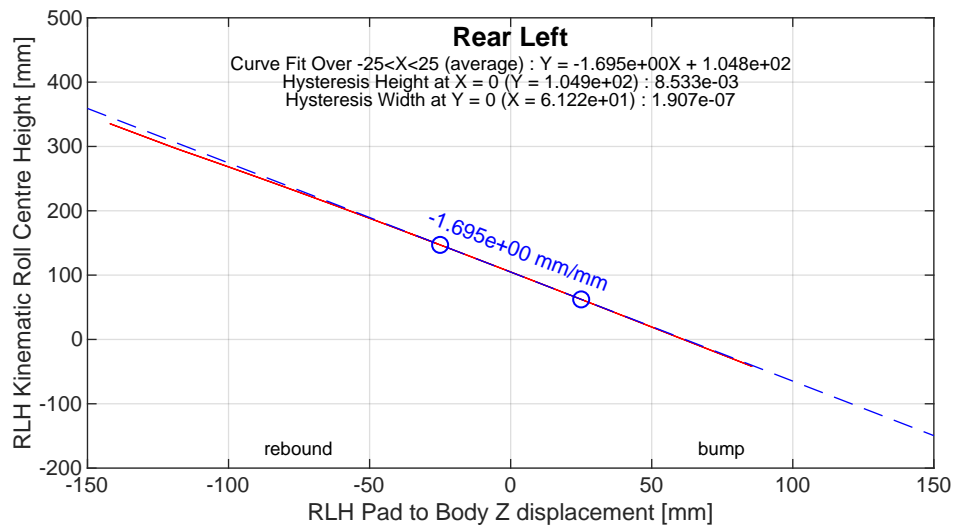
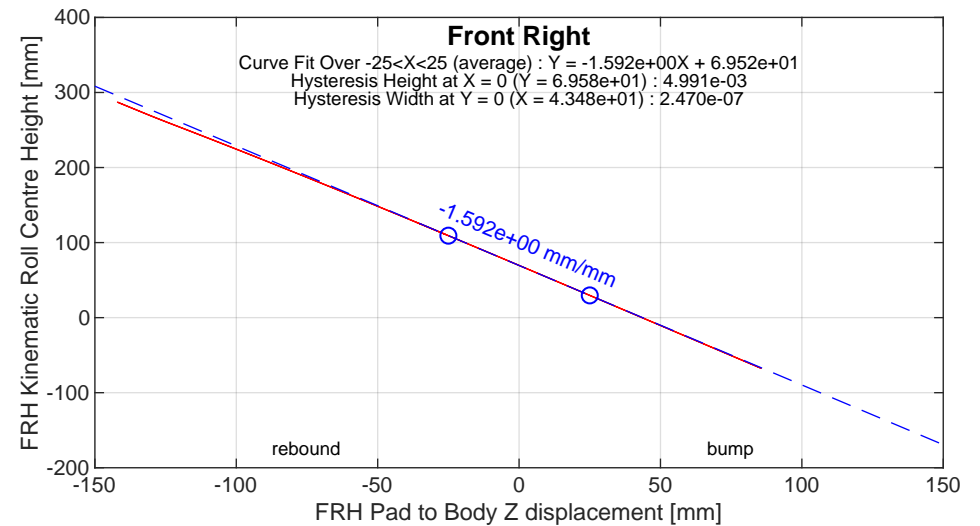
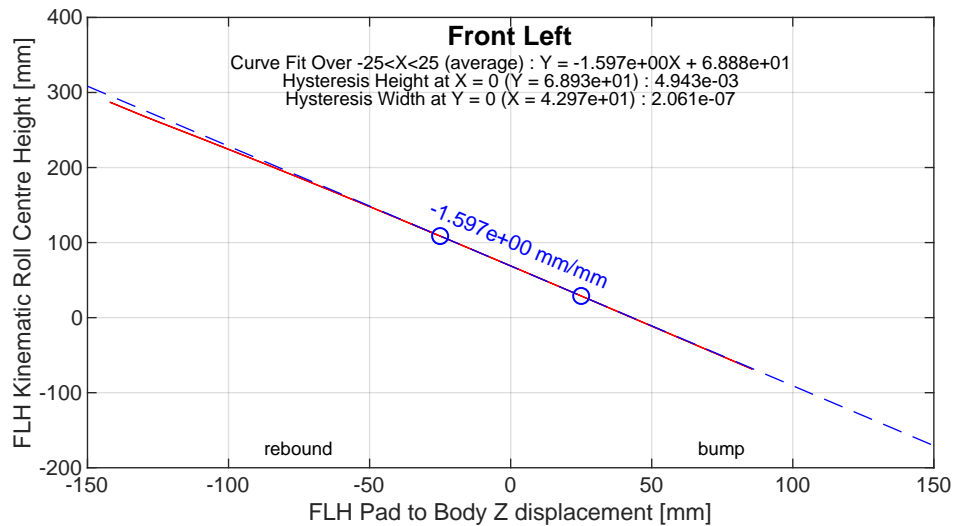
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine Off : Test #1 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



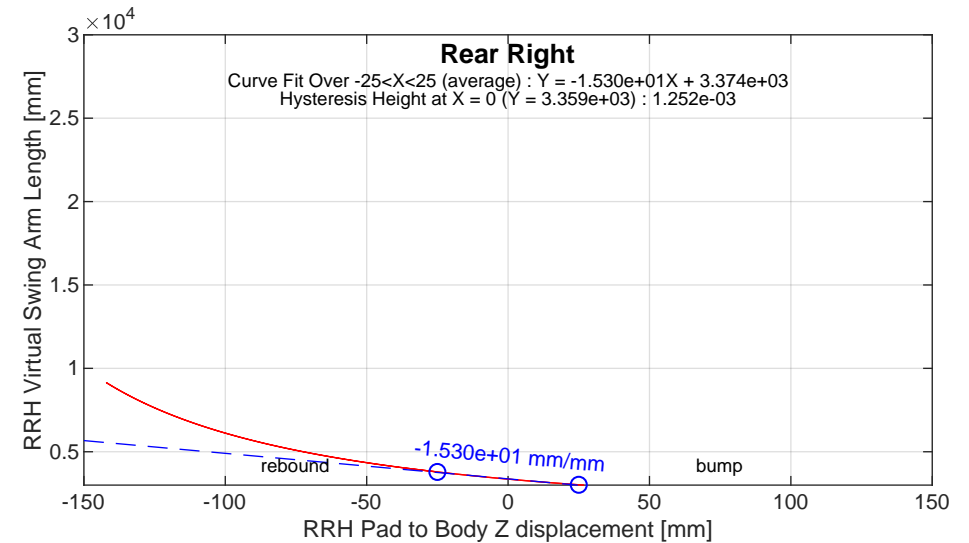
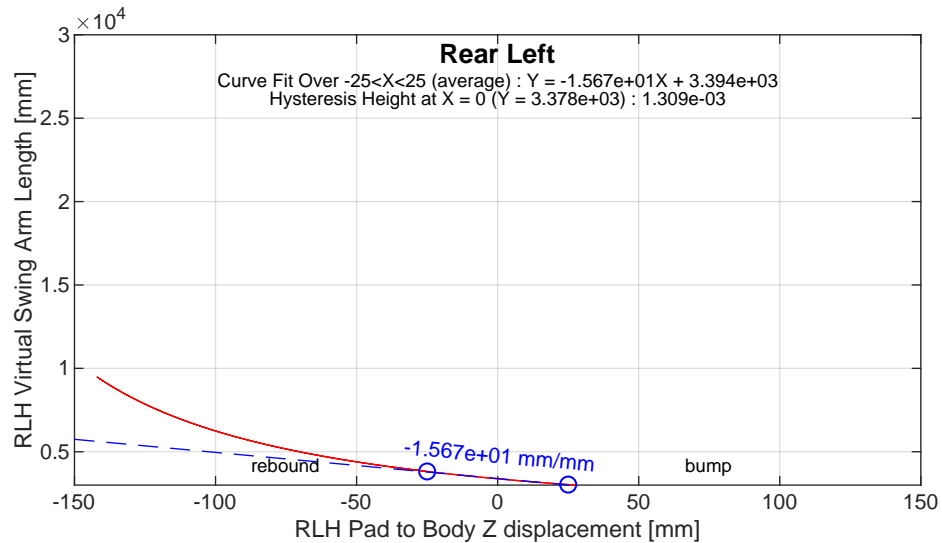
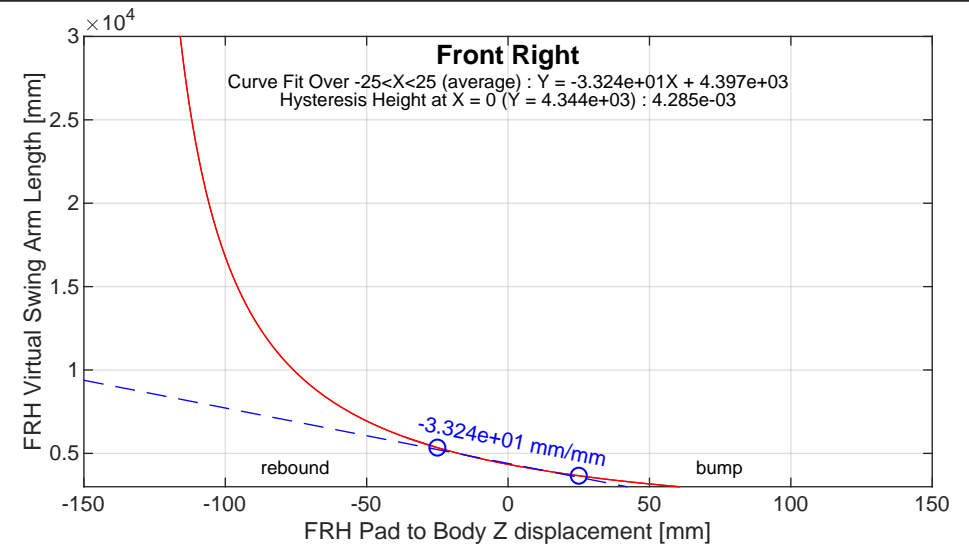
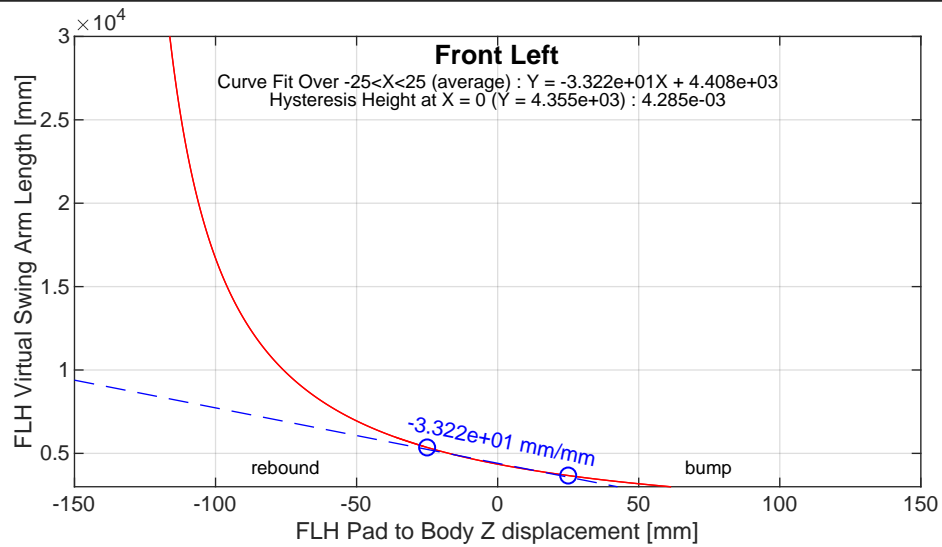
Bounce
Audi Q5
Kinematic Roll Centre Height
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine Off : Test #1 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Virtual Swing Arm Length

Co-ordinate system : ISO Ground-fixed

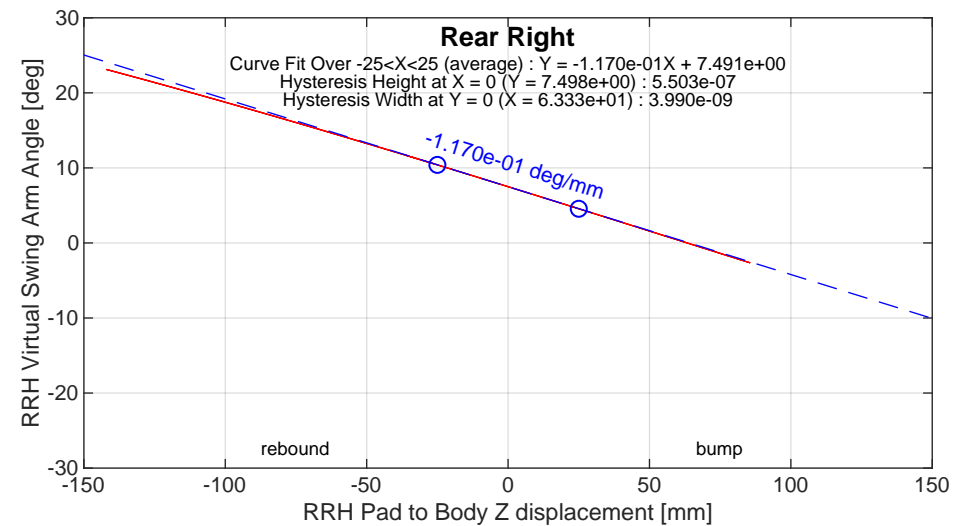
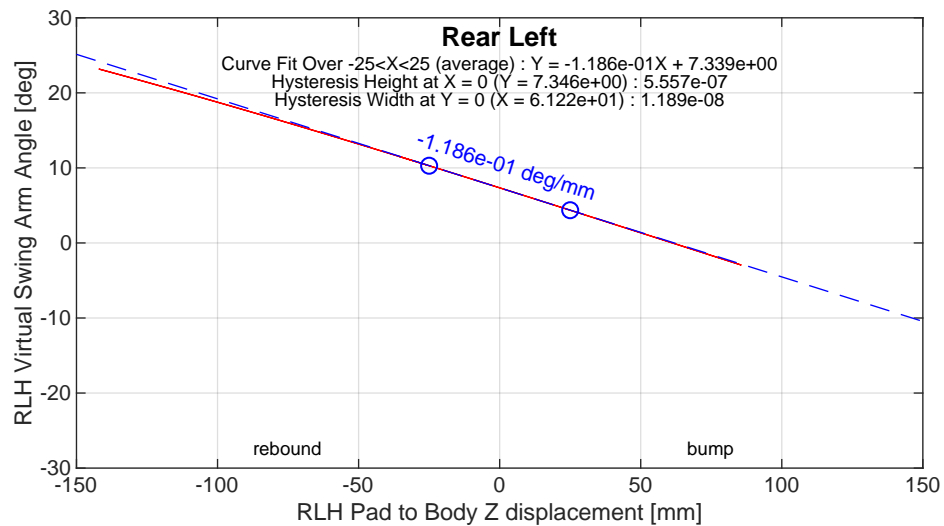
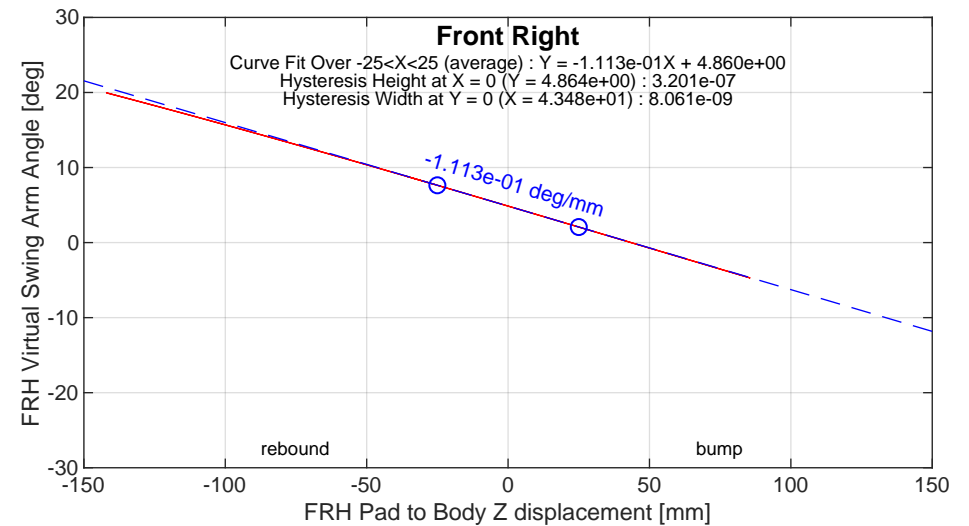
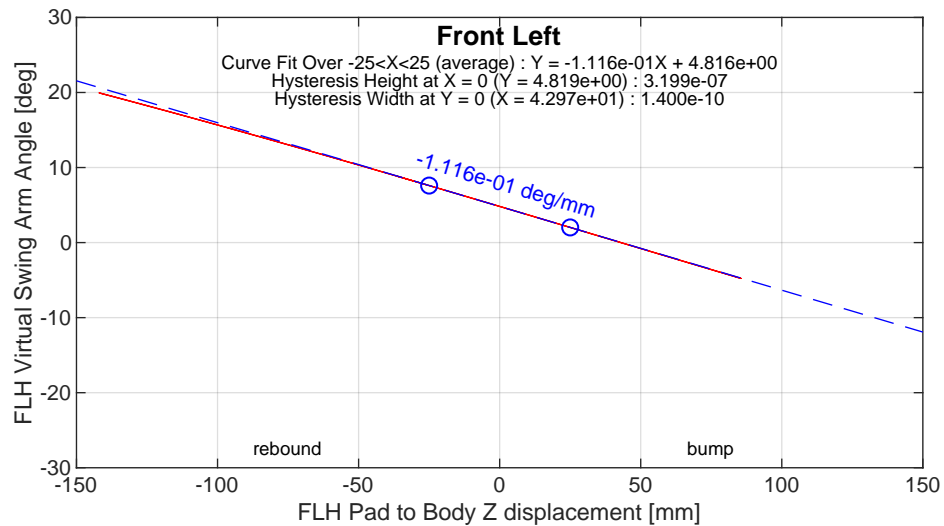
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine Off : Test #1 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



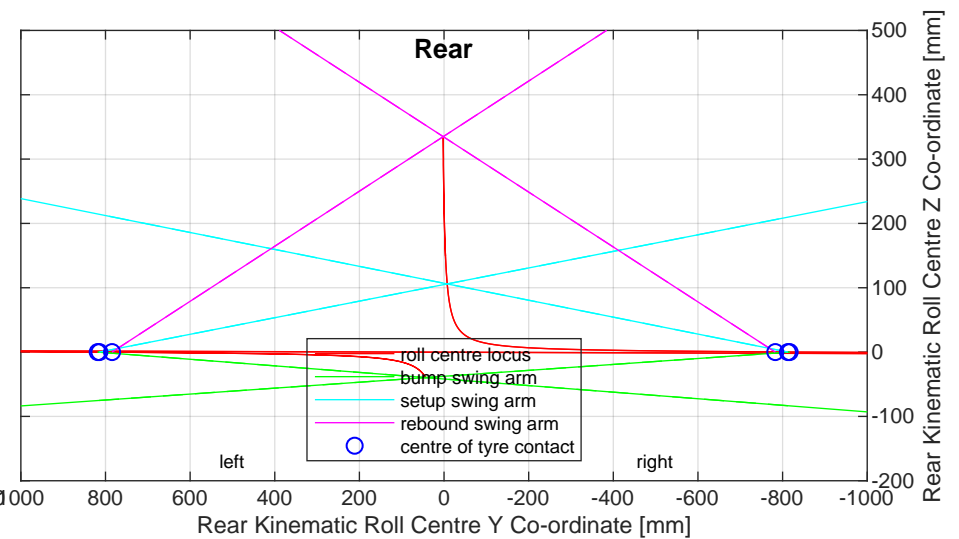
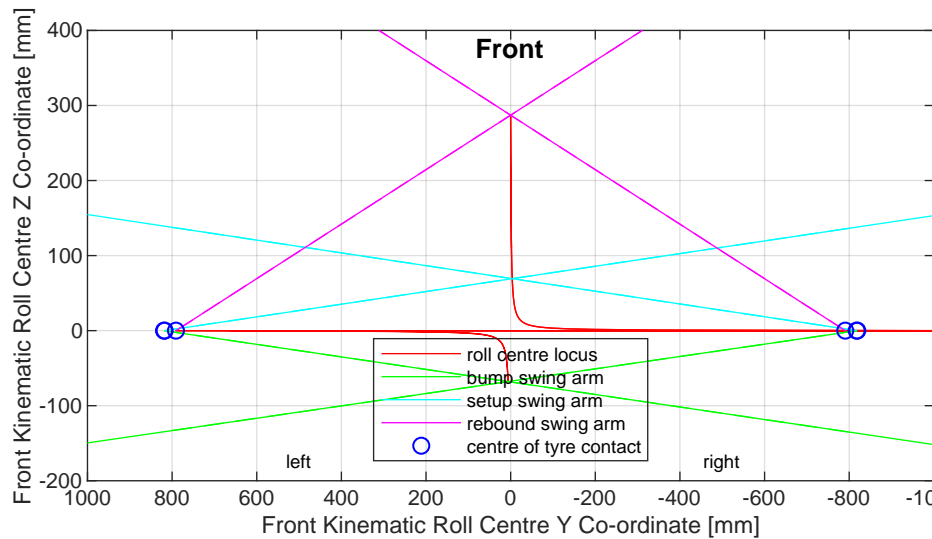
Bounce
Audi Q5
Virtual Swing Arm Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine Off : Test #1 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



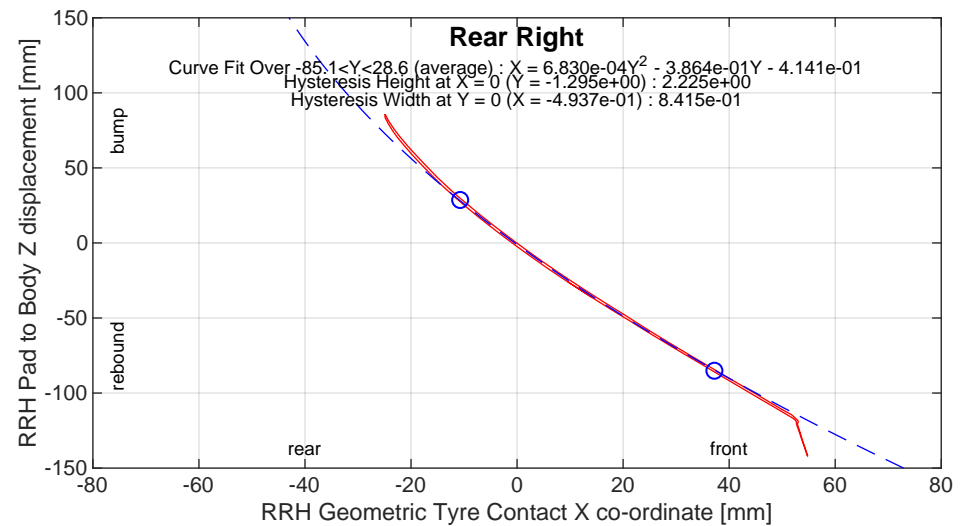
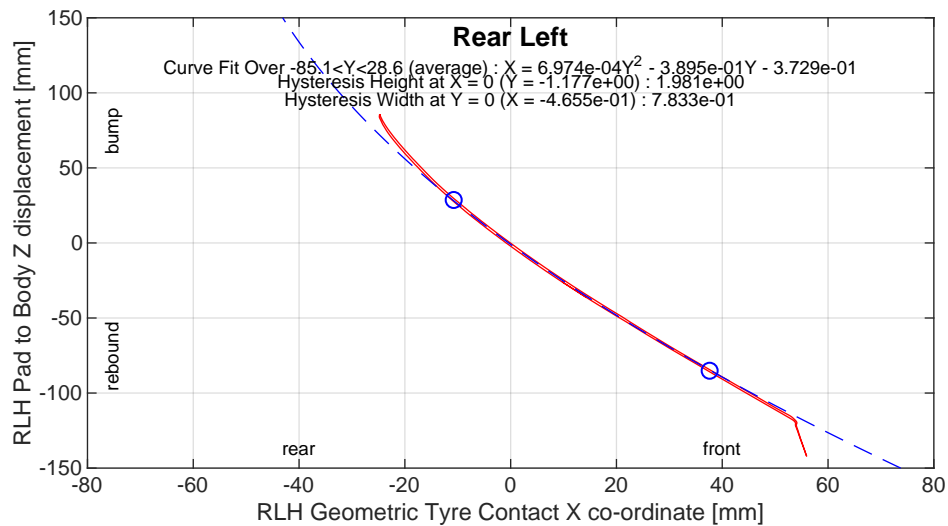
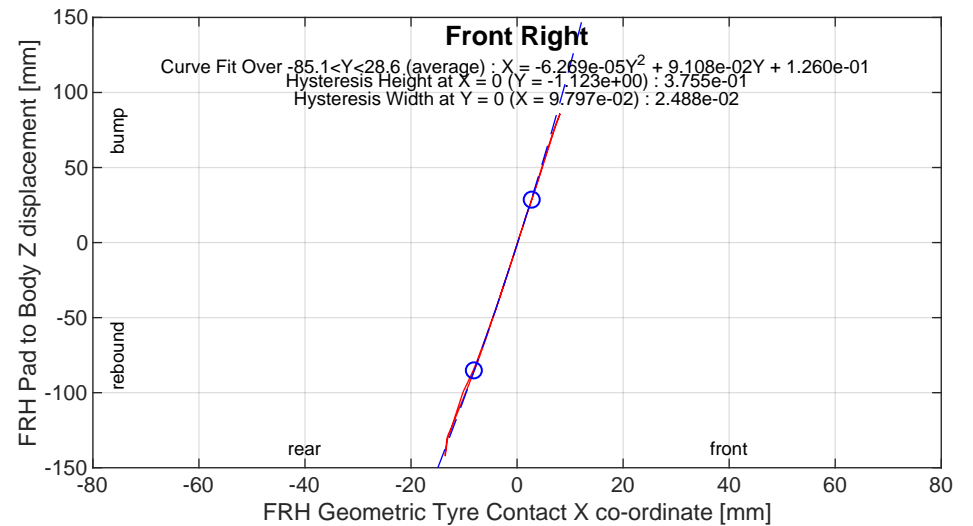
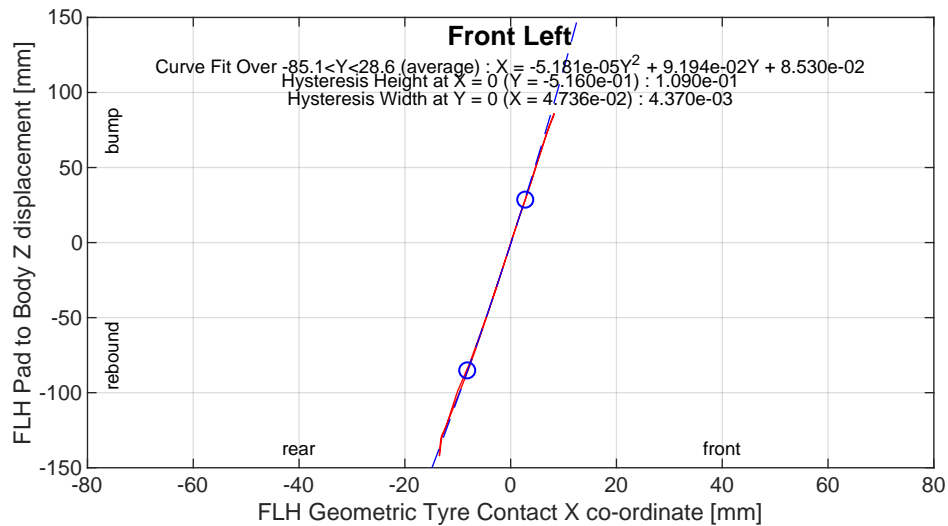
Bounce
Audi Q5
Kinematic Roll Centre Locus
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine Off : Test #1 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



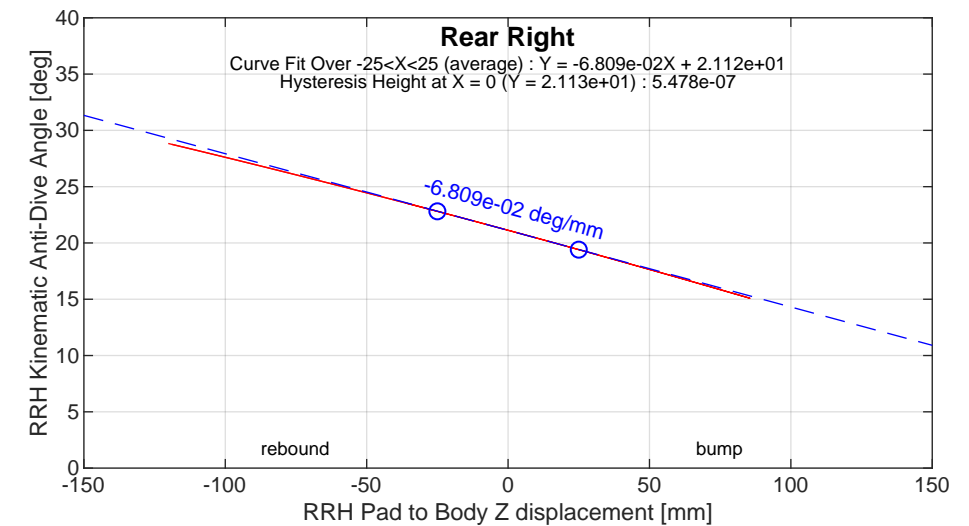
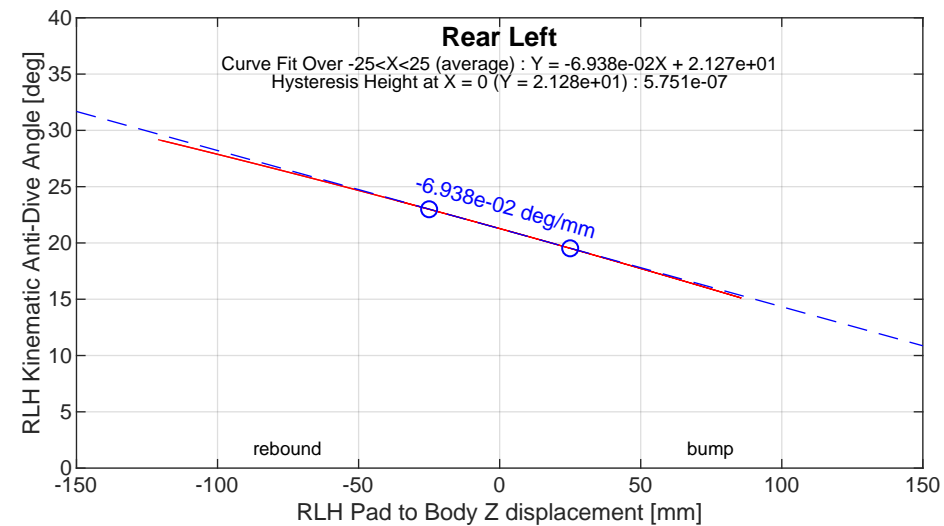
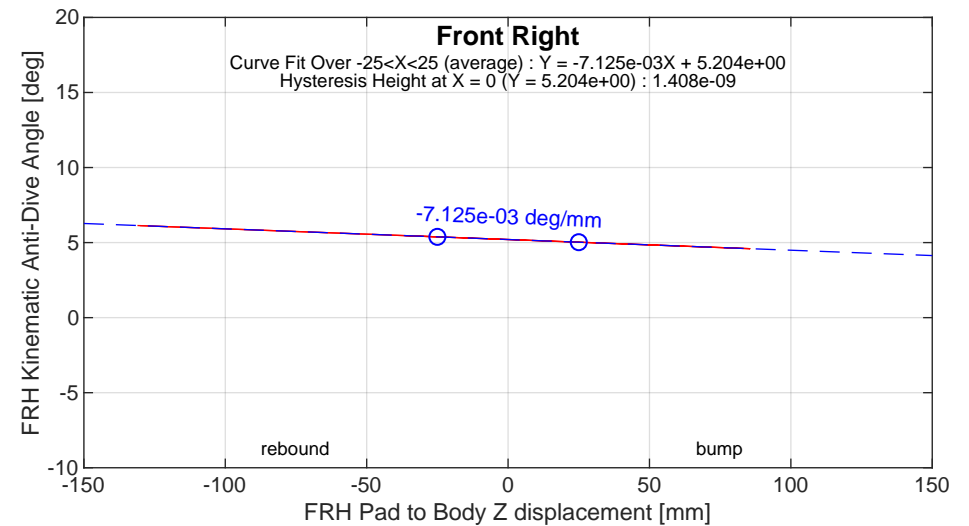
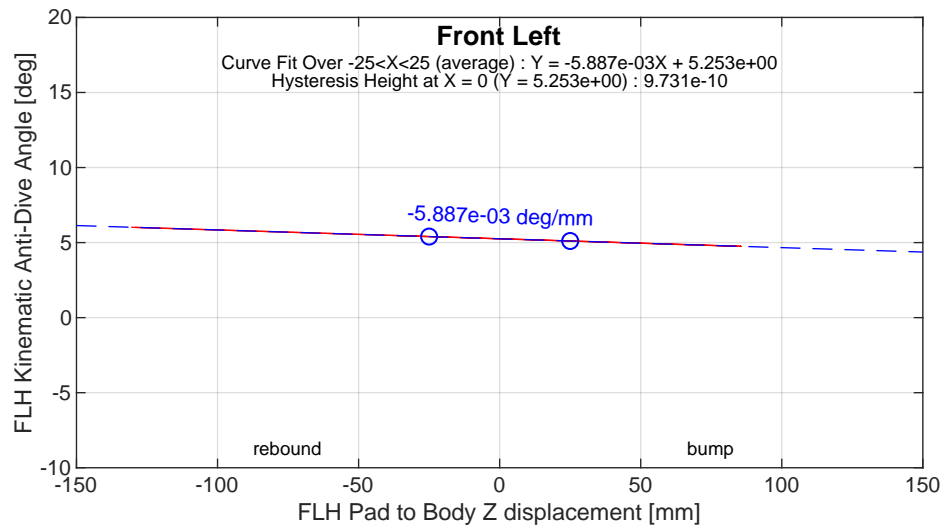
Bounce
Audi Q5
Anti-Dive Curve Fits
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine Off : Test #1 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



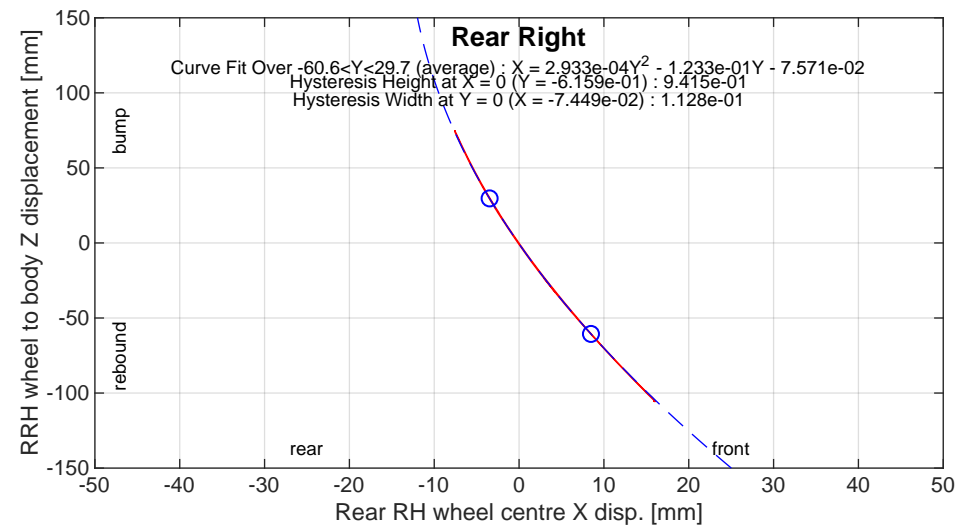
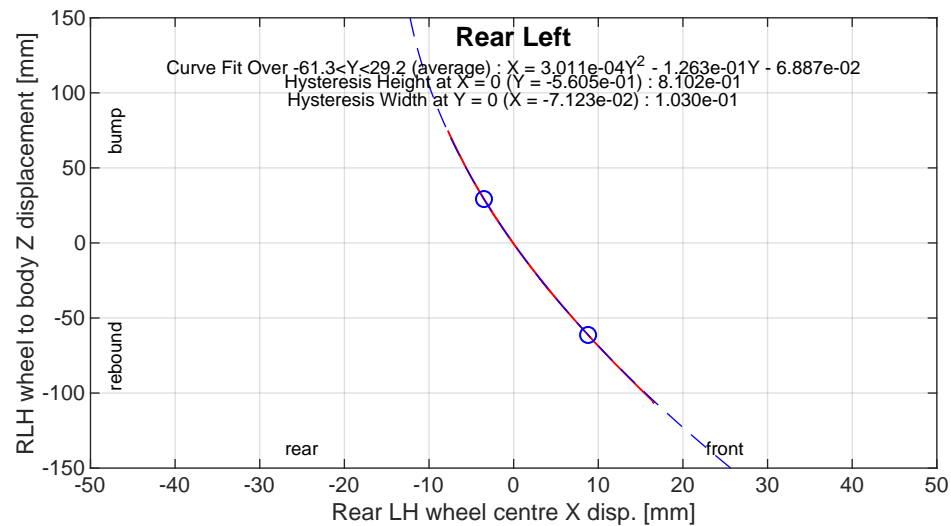
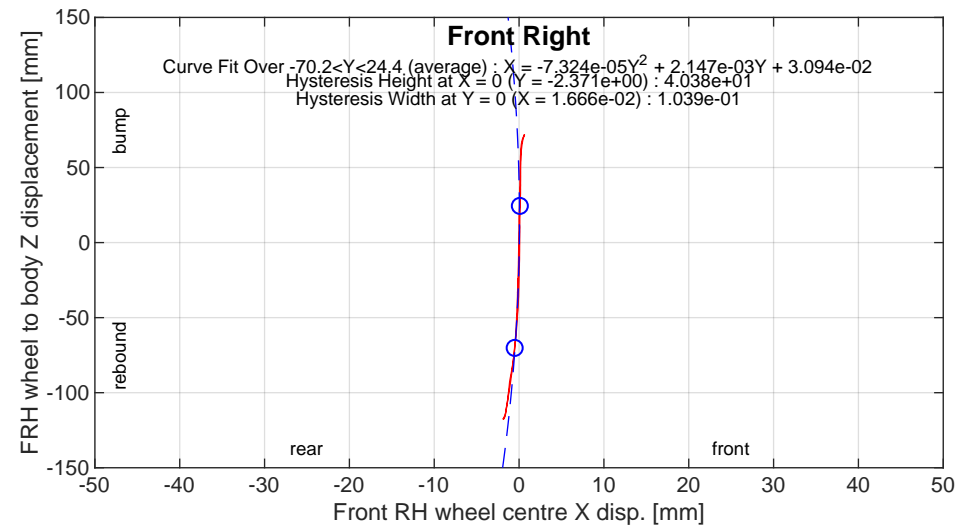
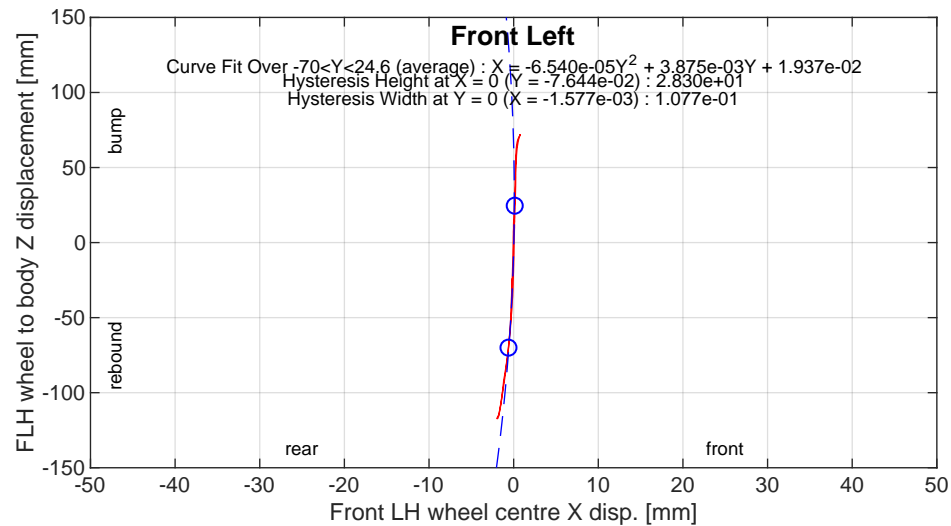
Bounce
Audi Q5
Kinematic Anti-Dive Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine Off : Test #1 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



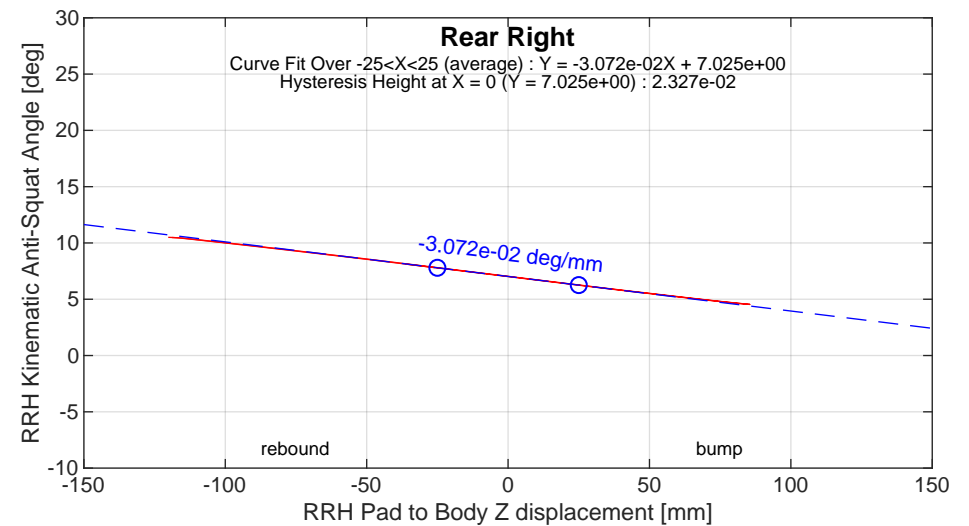
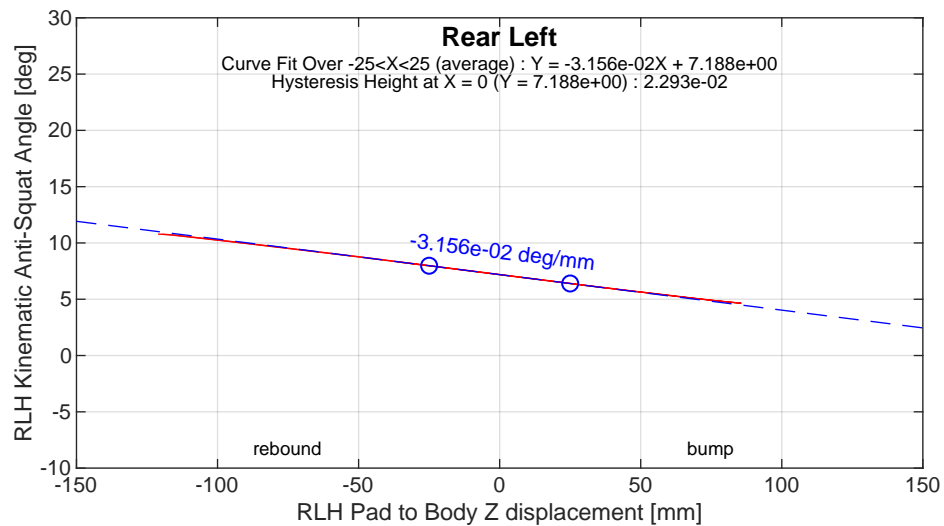
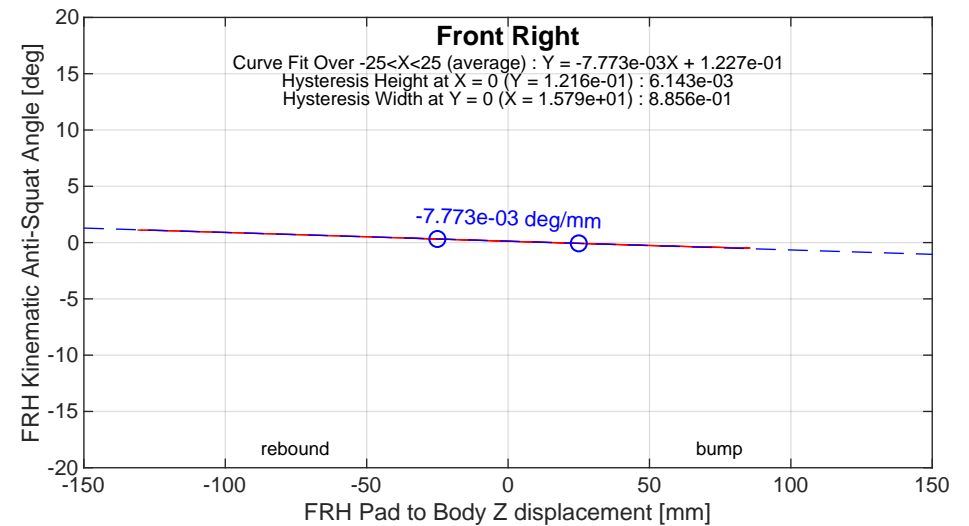
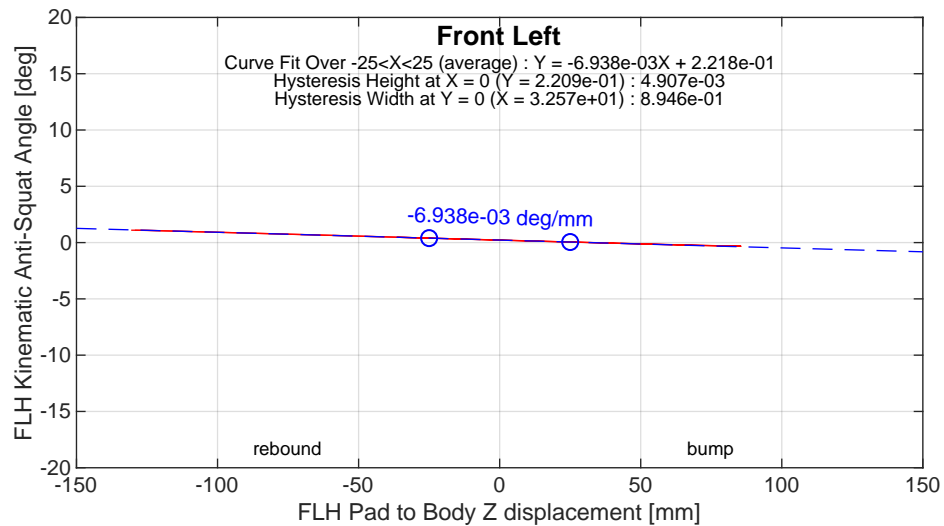
Bounce
Audi Q5
Anti-Squat Curve Fits
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine Off : Test #1 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce
Audi Q5
Kinematic Anti-Squat Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine Off : Test #1 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31

Plotted Curve Fit Coefficients

Wheel Rates (FL/FR/RL/RR) [N/mm]:

2.407e+01	4.399e+03
2.335e+01	4.416e+03
2.769e+01	4.732e+03
2.826e+01	4.745e+03

Tyre Radial Rates (FL/FR/RL/RR) [N/mm]:

3.627e+02	4.479e+03
3.576e+02	4.501e+03
3.632e+02	4.838e+03
3.618e+02	4.806e+03

Ride Rates (FL/FR/RL/RR) [N/mm]:

2.265e+01	4.403e+03
2.200e+01	4.421e+03
2.574e+01	4.737e+03
2.623e+01	4.747e+03

Bump Steer (FL/FR/RL/RR) [deg/mm]:

-2.933e-03	-6.412e-03
-3.409e-03	-2.325e-02
2.243e-03	1.590e-02
3.029e-03	1.289e-02

Bump Camber (FL/FR/RL/RR) [deg/mm]:

-1.431e-02	-1.293e-02
-1.434e-02	-1.152e-02
-1.839e-02	-7.133e-03
-1.854e-02	-8.654e-03

Bump Spin (FL/FR/RL/RR) [deg/mm]:

-1.553e-02	-1.040e-02
-1.572e-02	-1.522e-02
4.703e-02	2.480e-02
4.718e-02	3.910e-02

Lateral Wheel Centre Displacement (FL/FR/RL/RR) [mm/mm]:

3.648e-03	-2.825e-01
-3.657e-03	3.321e-01
2.518e-02	-2.883e-01
-2.820e-02	3.329e-01

Wheel Recession (FL/FR/RL/RR) [mm/mm]:

4.387e-03	1.416e-03
2.662e-03	1.246e-02
-1.262e-01	-7.352e-03
-1.232e-01	-1.689e-02

Body Vertical Displacement (F/R) [mm/mm]:

2.487e-06	5.025e-03
1.499e-07	-1.539e-03

Track Change (F/R) [mm/mm]:

-3.397e-02	-1.791e-01
2.632e-03	-4.521e-01

Wheelbase Change (L/R) [mm/mm]:

9.528e-02	1.080e+00
8.739e-02	1.239e+00

Roll Centre Curve Fits (FL/FR/RL/RR) [mm/mm]:

-9.812e-04	8.431e-02	3.578e-02
9.786e-04	-8.510e-02	2.539e-02
-1.053e-03	1.289e-01	3.982e-02
1.039e-03	-1.316e-01	1.964e-02

Kinematic Roll Centre Height (FL/FR/RL/RR) [mm/mm]:

-1.597e+00	6.888e+01
-1.592e+00	6.952e+01
-1.695e+00	1.048e+02
-1.673e+00	1.070e+02

Virtual Swing Arm Length (FL/FR/RL/RR) [mm/mm]:

-3.322e+01	4.408e+03
-3.324e+01	4.397e+03
-1.567e+01	3.394e+03

-1.530e+01 3.374e+03

Virtual Swing Arm Angle (FL/FR/RL/RR) [deg/mm]:

-1.116e-01 4.816e+00
-1.113e-01 4.860e+00
-1.186e-01 7.339e+00
-1.170e-01 7.491e+00

Anti-Dive Curve Fits (FL/FR/RL/RR) [mm/mm]:

-5.181e-05 9.194e-02 8.530e-02
-6.269e-05 9.108e-02 1.260e-01
6.974e-04 -3.895e-01 -3.729e-01
6.830e-04 -3.864e-01 -4.141e-01

Kinematic Anti-Dive Angle (FL/FR/RL/RR) [deg/mm]:

-5.887e-03 5.253e+00
-7.125e-03 5.204e+00
-6.938e-02 2.127e+01
-6.809e-02 2.112e+01

Anti-Squat Curve Fits (FL/FR/RL/RR) [mm/mm]:

-6.540e-05 3.875e-03 1.937e-02
-7.324e-05 2.147e-03 3.094e-02
3.011e-04 -1.263e-01 -6.887e-02
2.933e-04 -1.233e-01 -7.571e-02

Kinematic Anti-Squat Angle (FL/FR/RL/RR) [deg/mm]:

-6.938e-03 2.218e-01
-7.773e-03 1.227e-01
-3.156e-02 7.188e+00
-3.072e-02 7.025e+00

Calculated Parameters

Kinematic Roll Centre Heights (FL/FR/RL/RR) [mm]:

6.894e+01
6.958e+01
1.049e+02
1.071e+02

Virtual Swing Arm Lengths (FL/FR/RL/RR) [mm]:

4.355e+03

4.344e+03

3.378e+03

3.359e+03

Virtual Swing Arm Angles (FL/FR/RL/RR) [deg]:

4.819e+00

4.864e+00

7.346e+00

7.498e+00

Kinematic Roll Center Height (F/R) [mm]:

6.925e+01

1.060e+02

Kinematic Roll Center Lateral Offset (F/R) [mm]:

-3.745e+00

-7.495e+00

Kinematic Anti-dive Angles (FL/FR/RL/RR) [deg]:

5.253e+00

5.204e+00

2.128e+01

2.113e+01

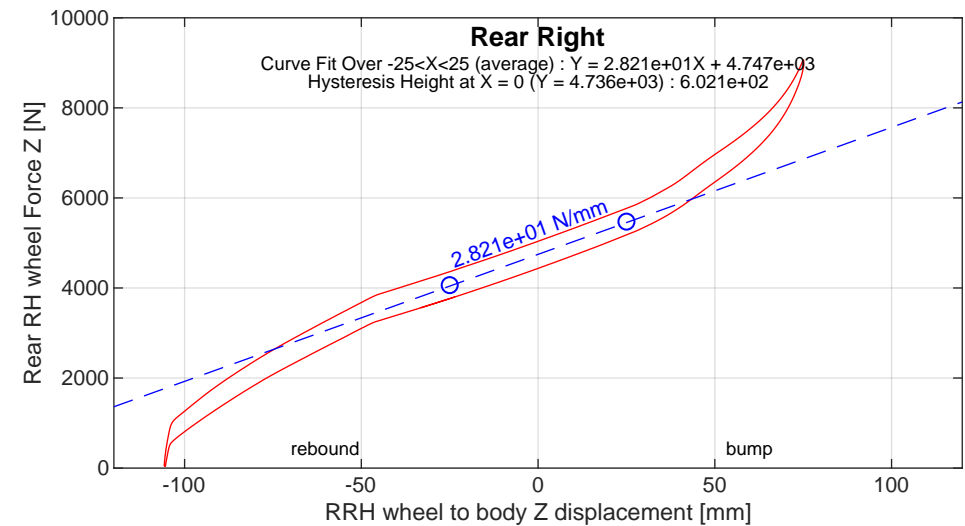
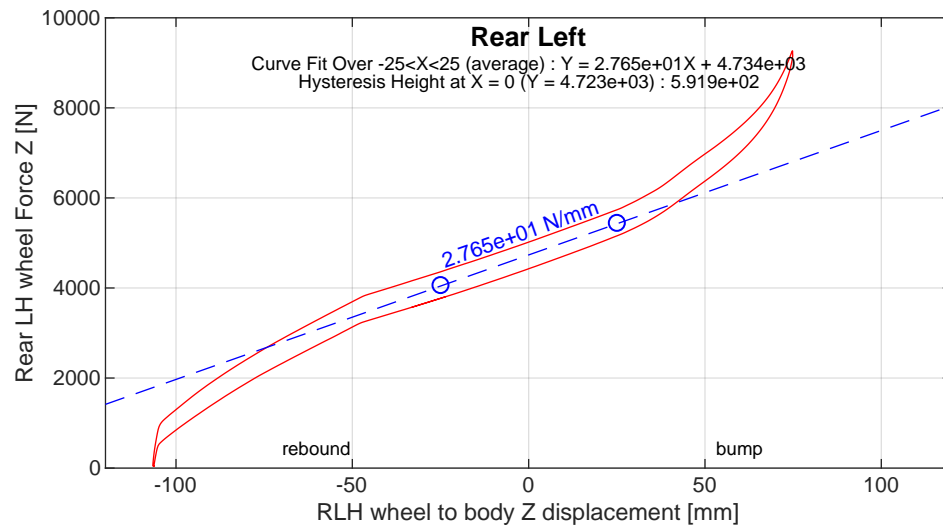
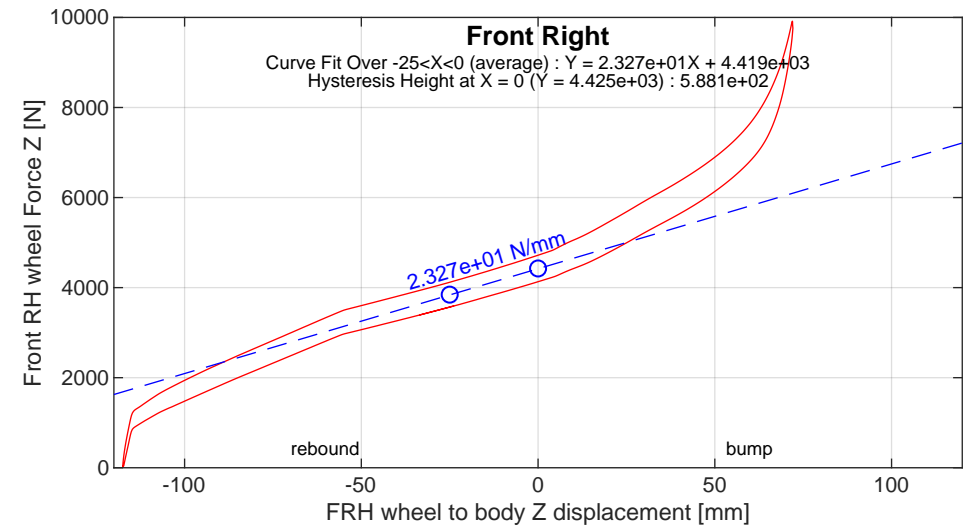
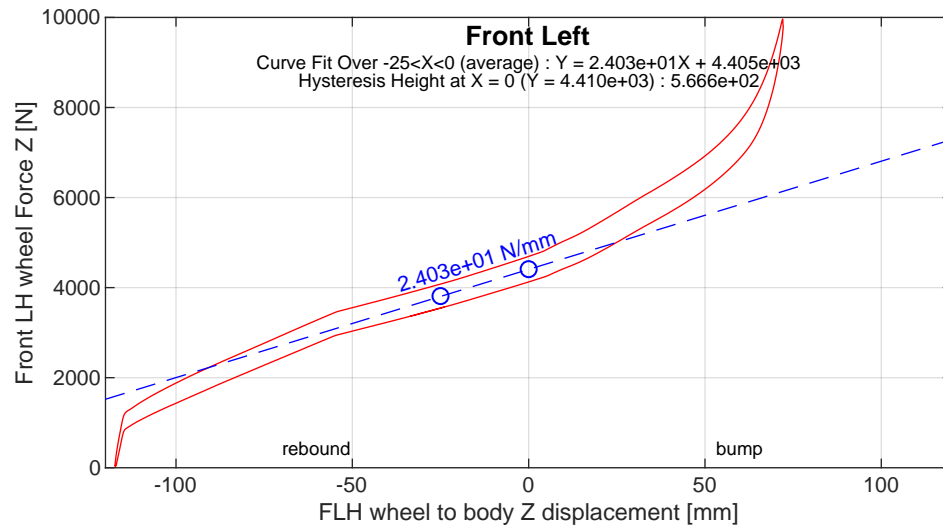
Kinematic Anti-Squat Angles (FL/FR/RL/RR) [deg]:

2.209e-01

1.216e-01

7.188e+00

7.025e+00



Bounce Audi Q5 Wheel Rates

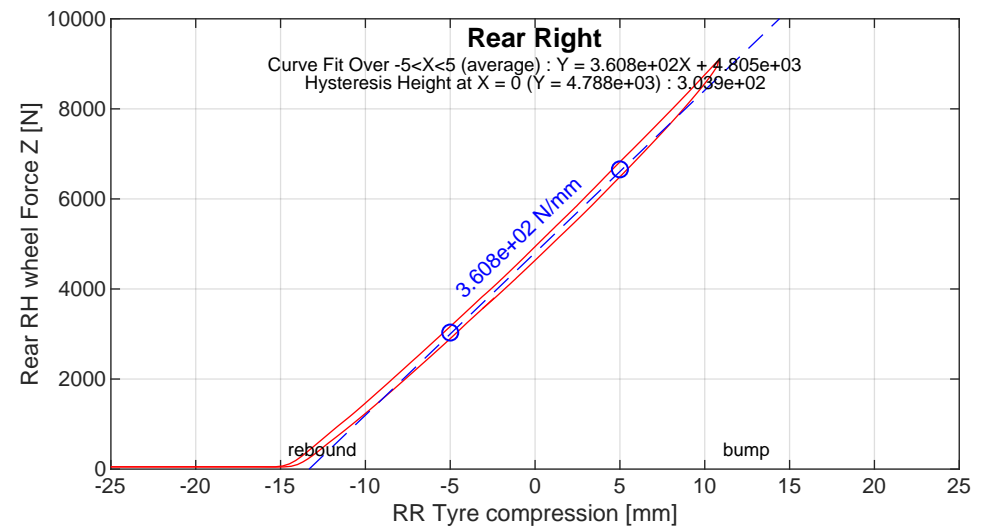
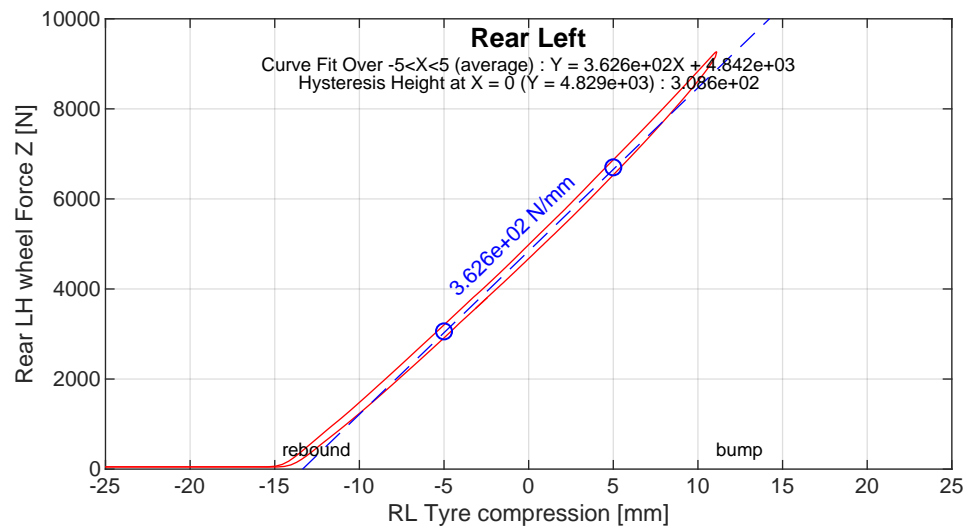
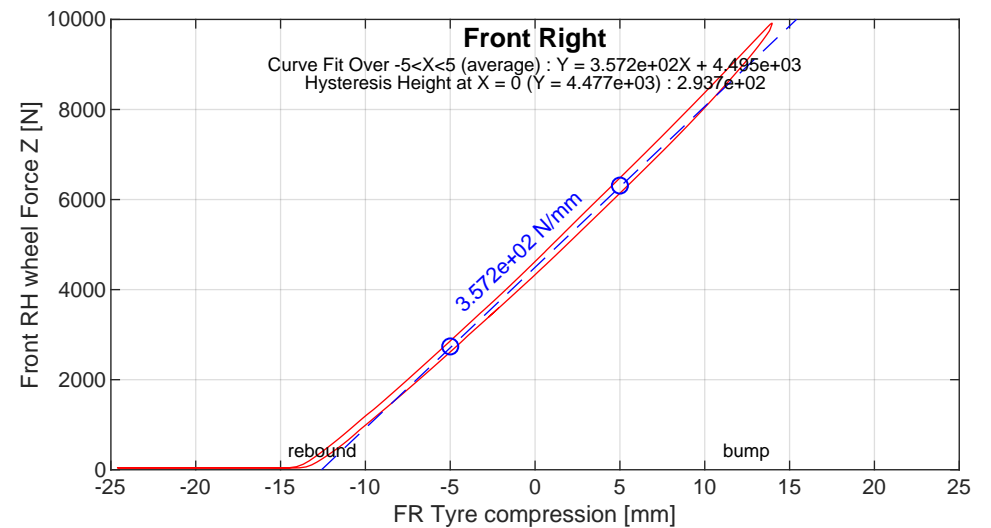
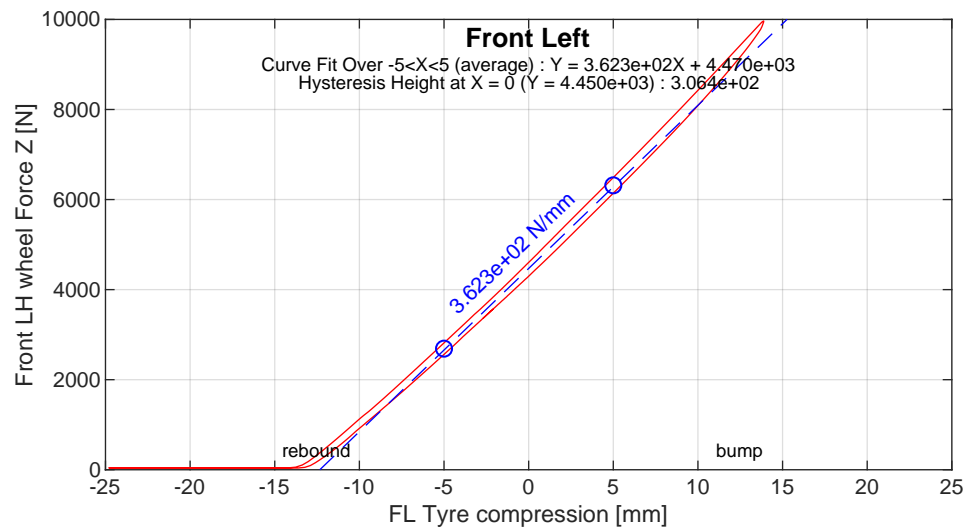
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Tyre Radial Rates

Co-ordinate system : ISO Ground-fixed

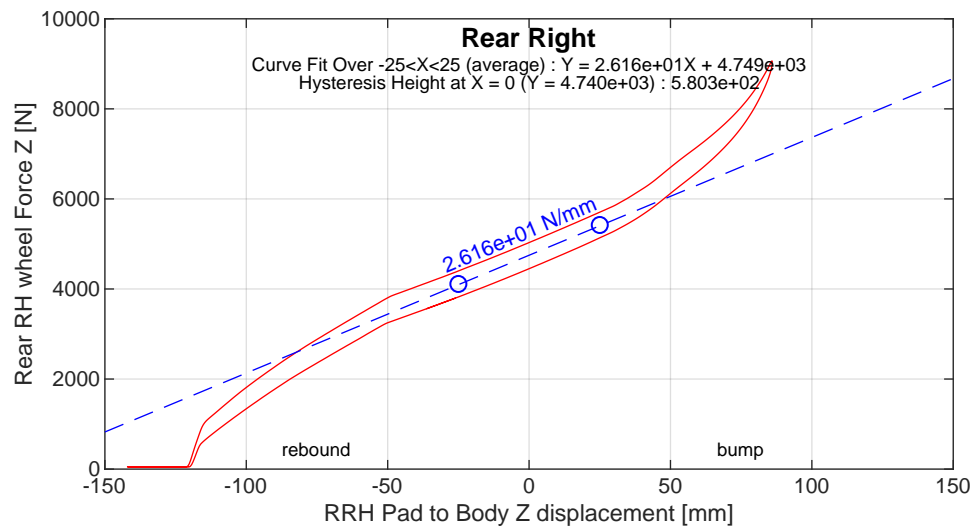
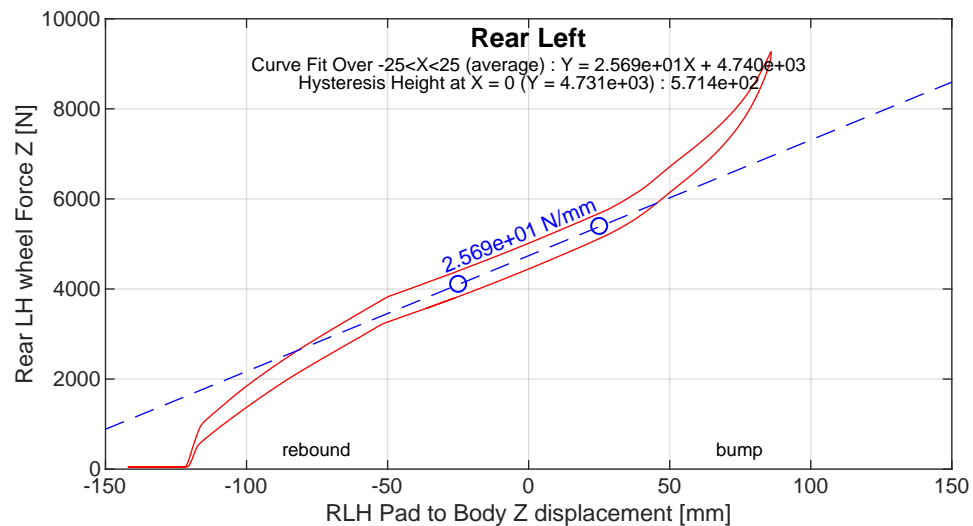
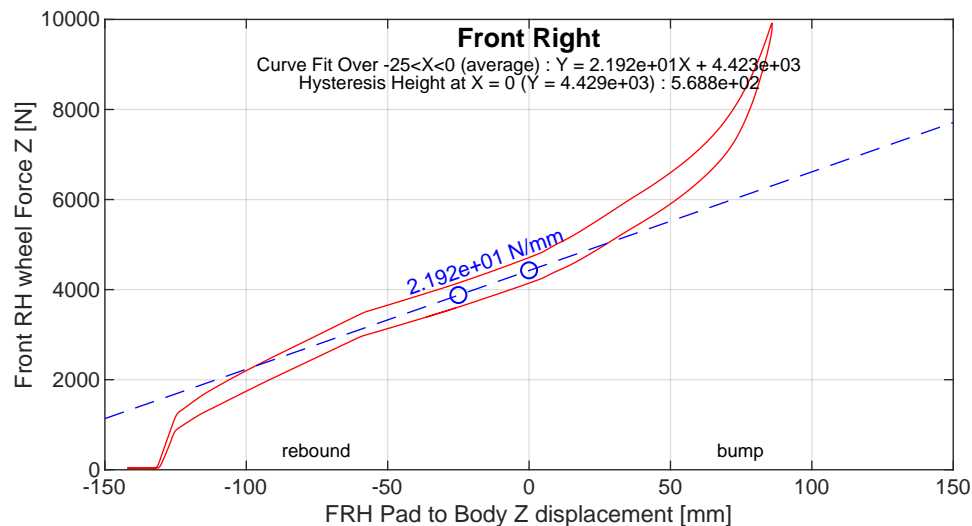
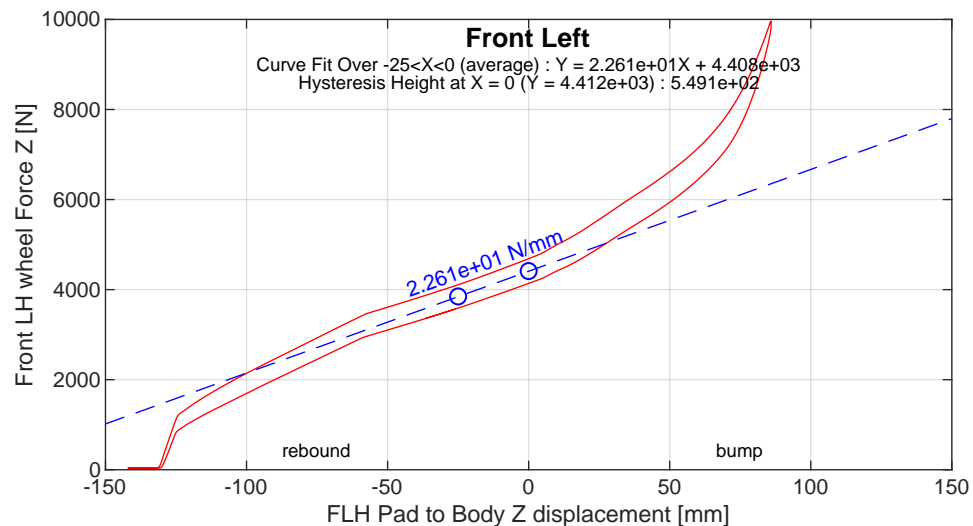
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Ride Rates

Co-ordinate system : ISO Ground-fixed

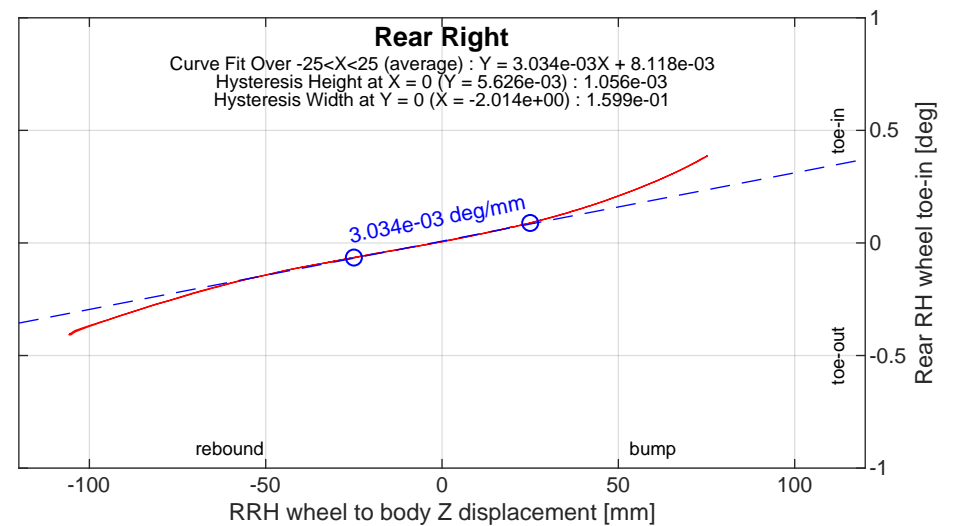
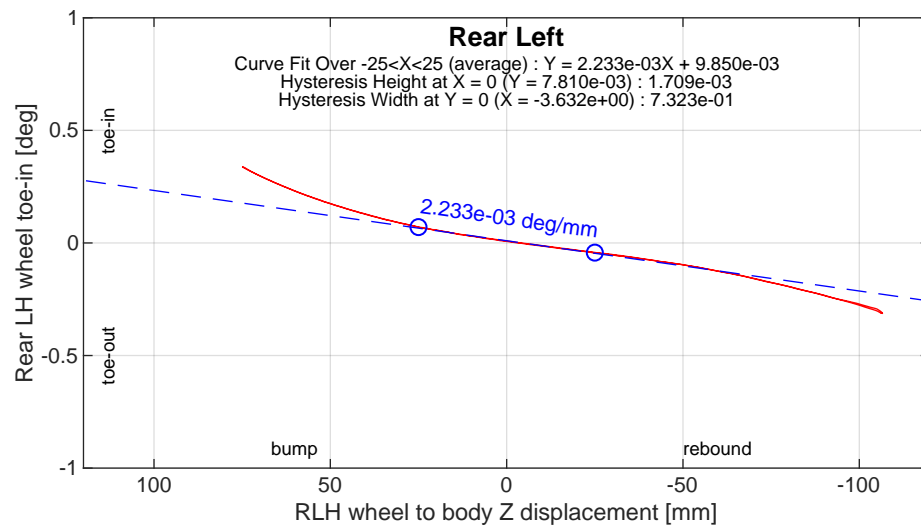
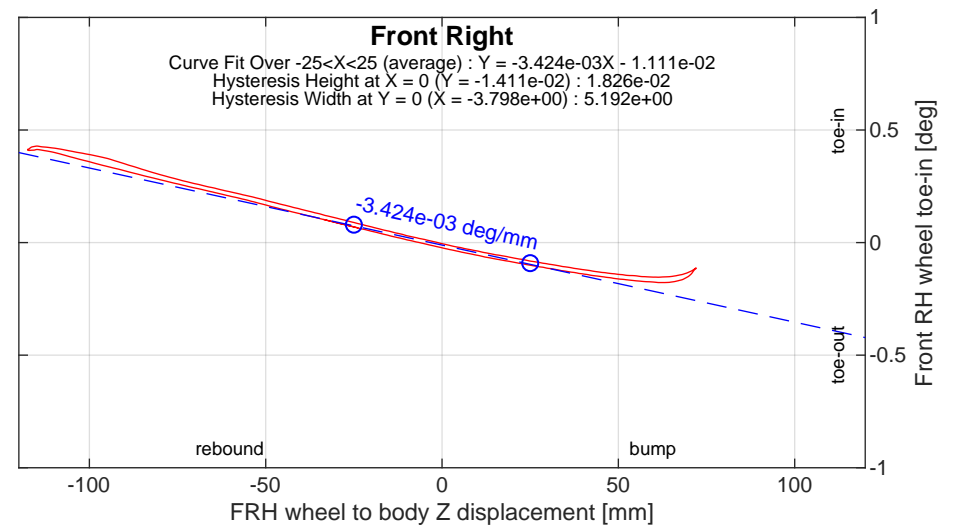
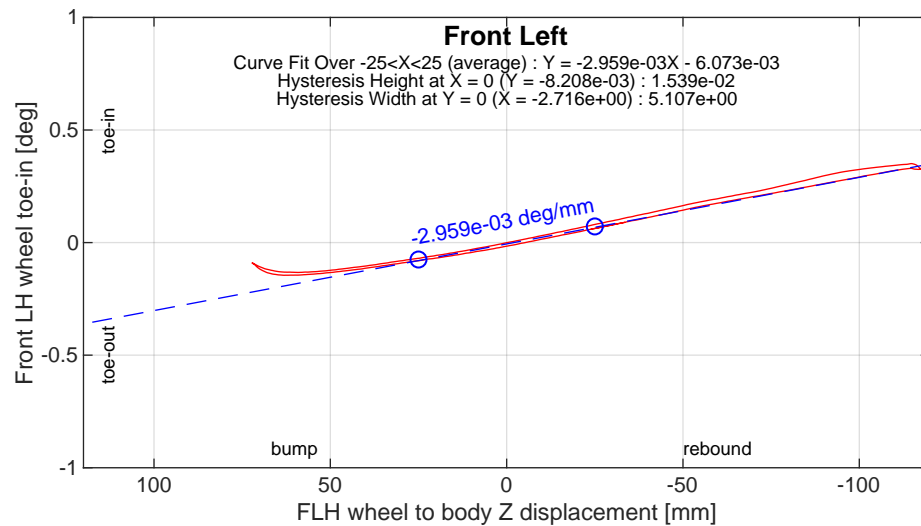
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Bump Steer

Co-ordinate system : ISO Ground-fixed

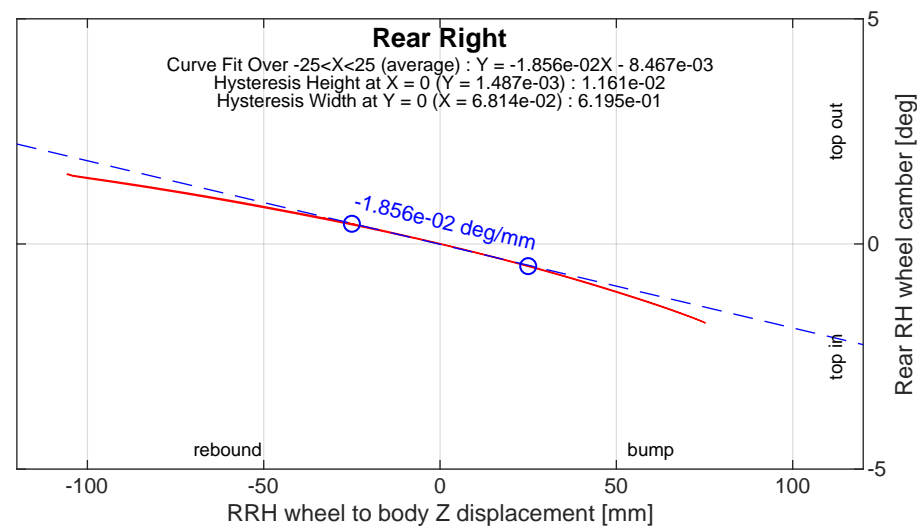
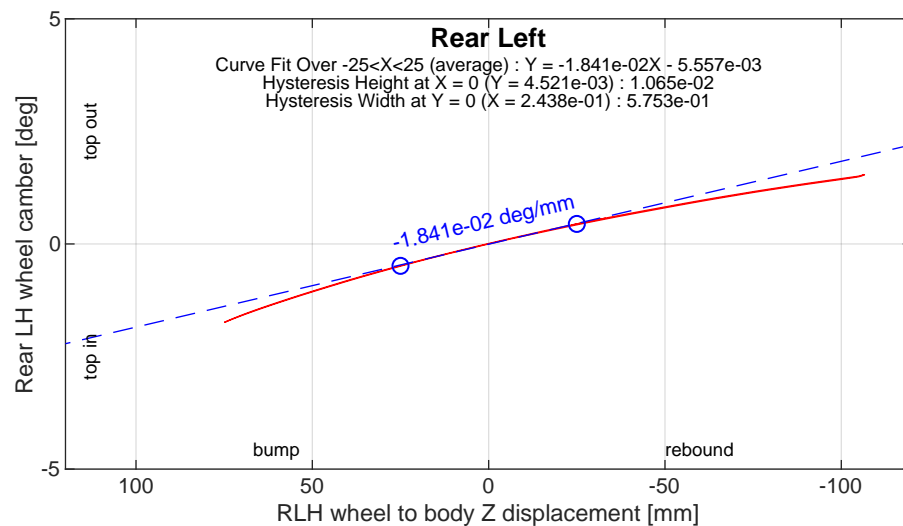
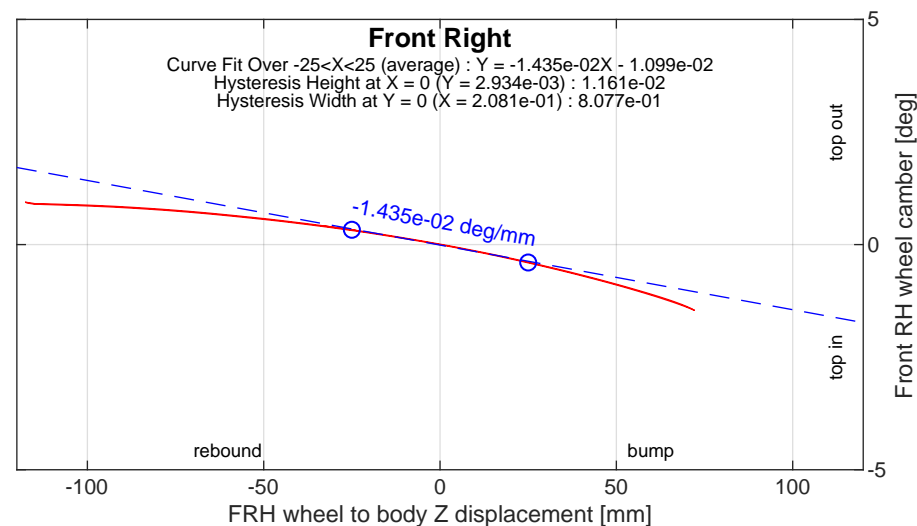
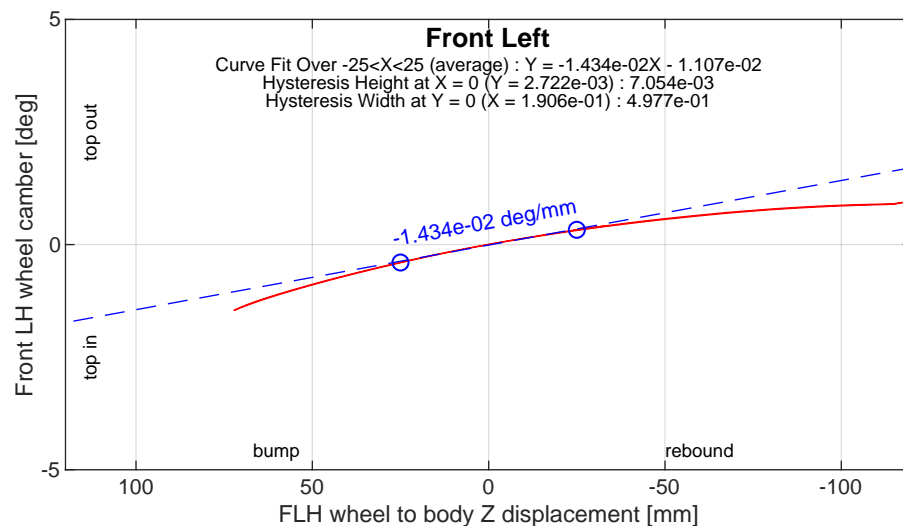
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Bump Camber

Co-ordinate system : ISO Ground-fixed

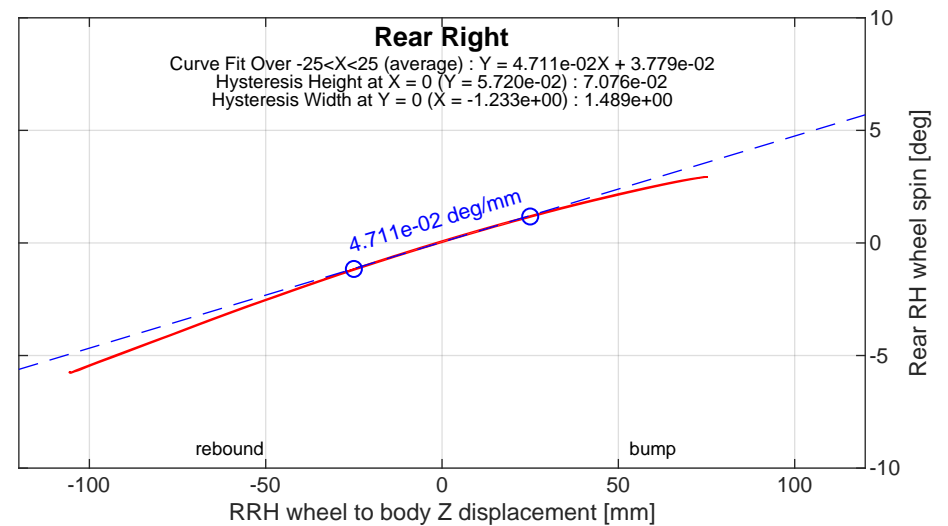
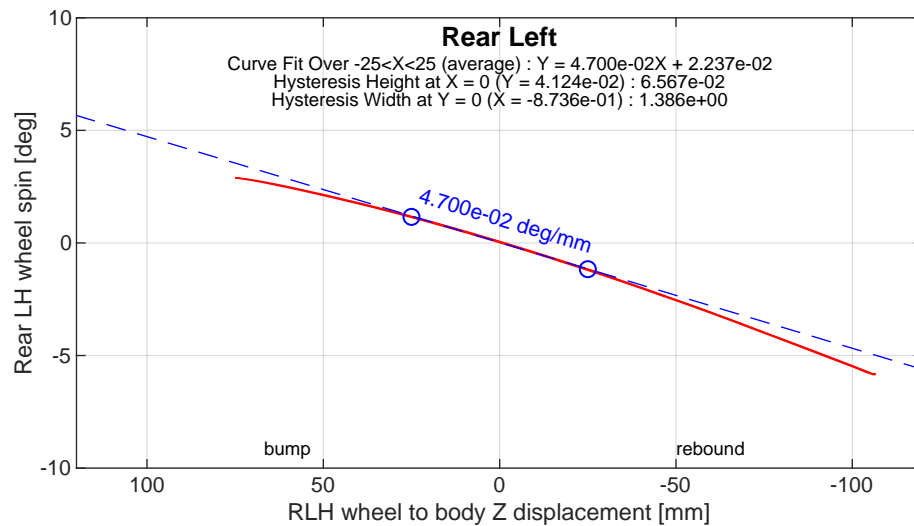
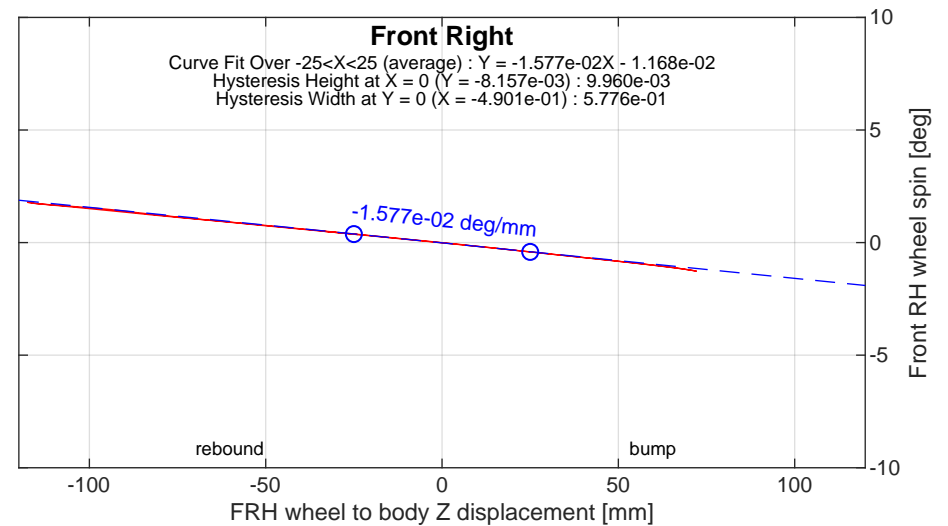
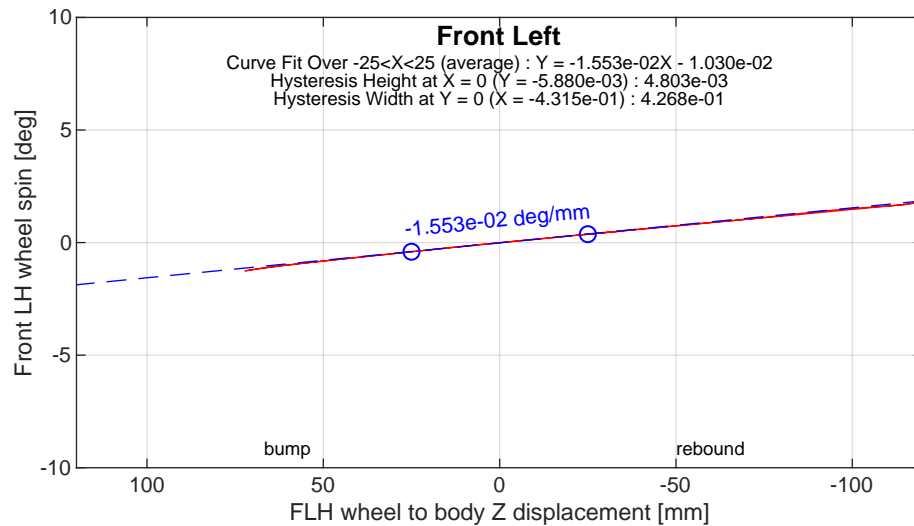
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



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SPMM Serial Number 31



Bounce

Audi Q5

Bump Spin

Co-ordinate system : ISO Ground-fixed

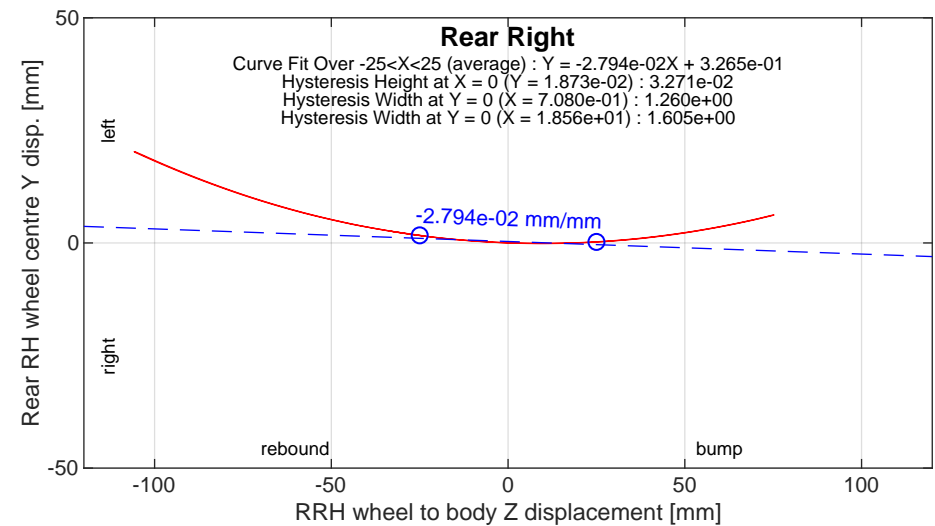
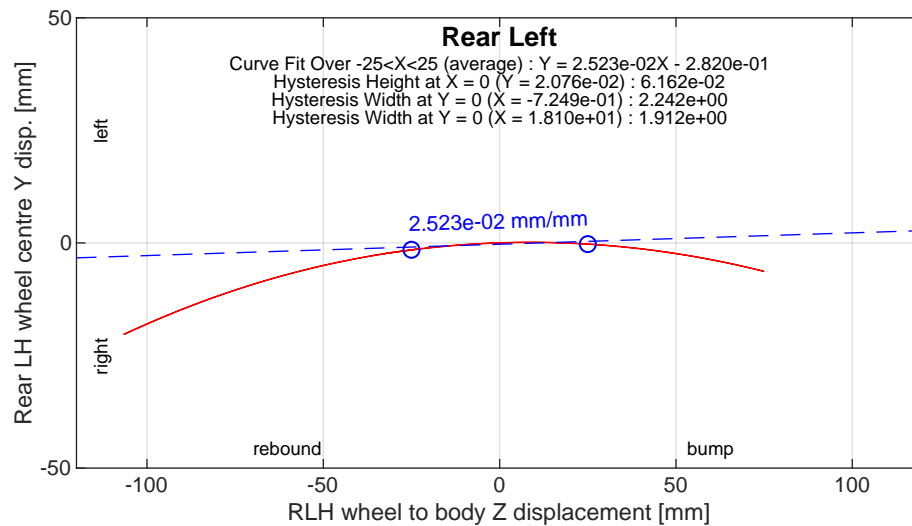
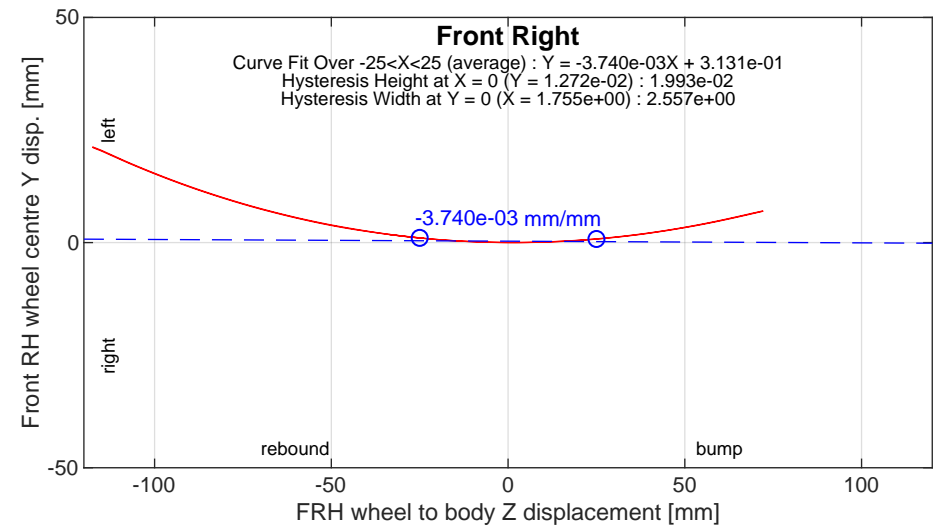
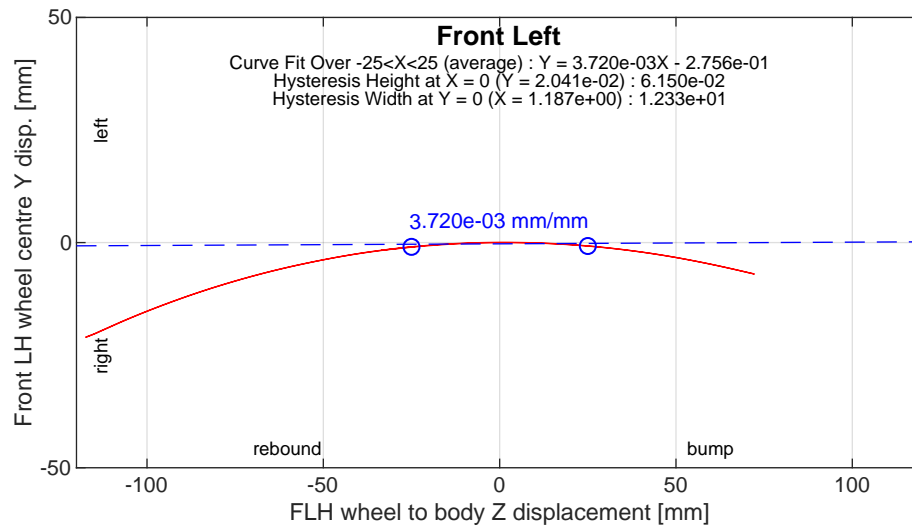
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



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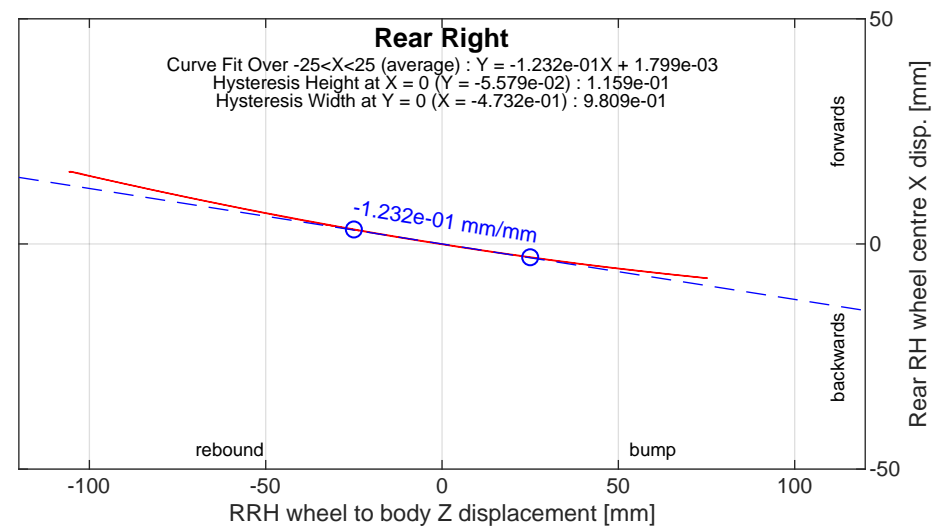
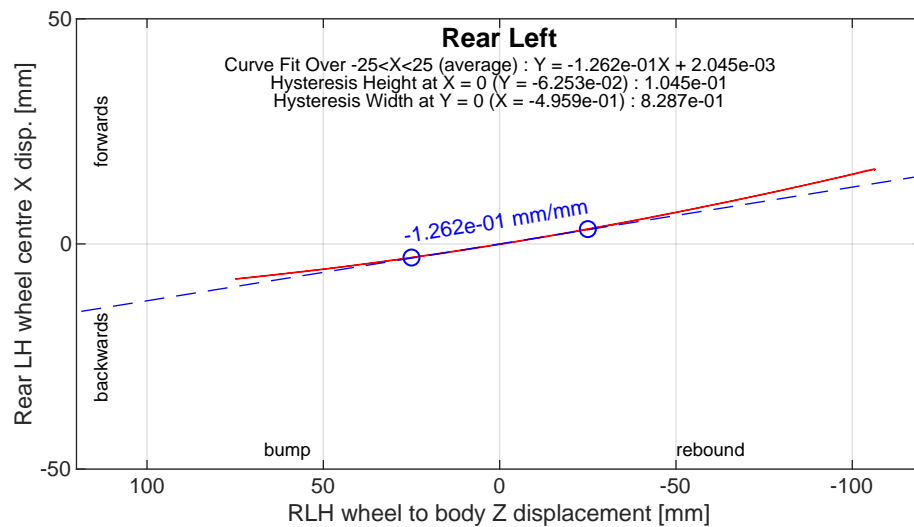
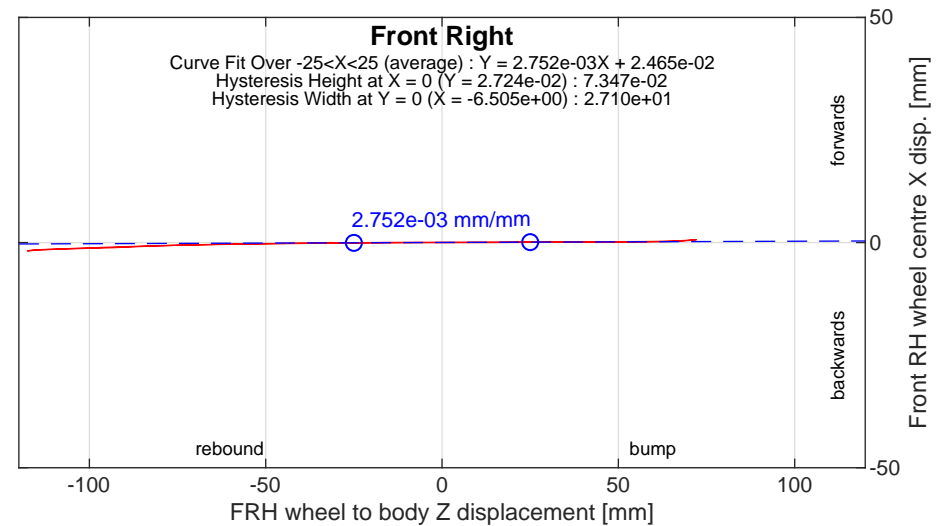
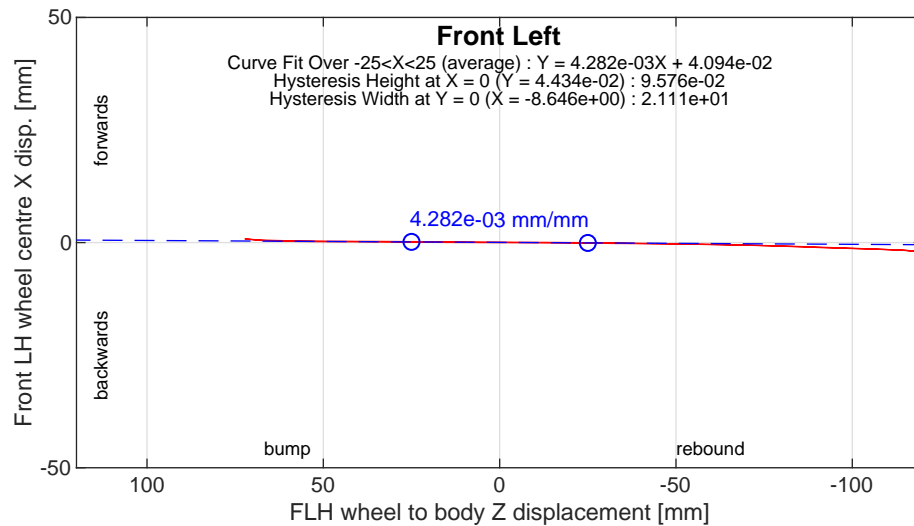
Bounce
Audi Q5
Lateral Wheel Centre Displacement
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
 Test Run #1, Cycle #2
 Input : Linear, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



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 SPMM Serial Number 31



Bounce

Audi Q5

Wheel Recession

Co-ordinate system : ISO Ground-fixed

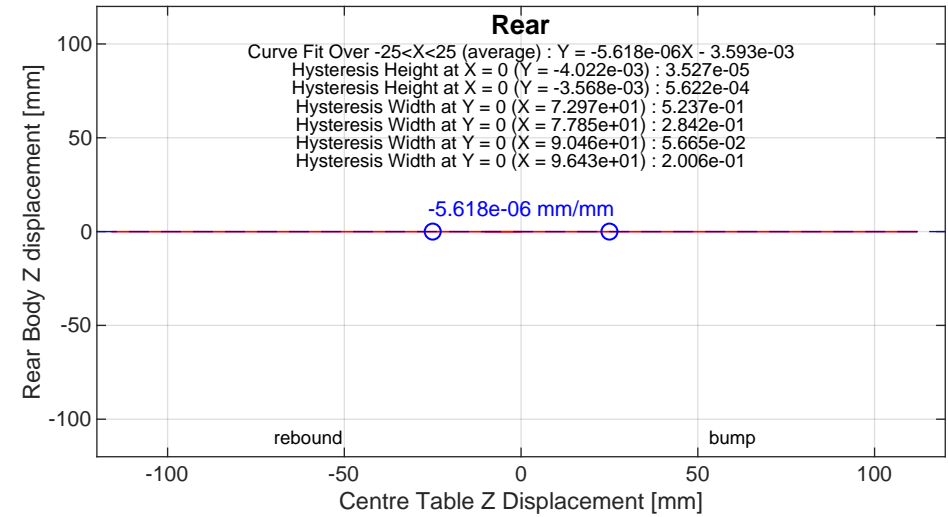
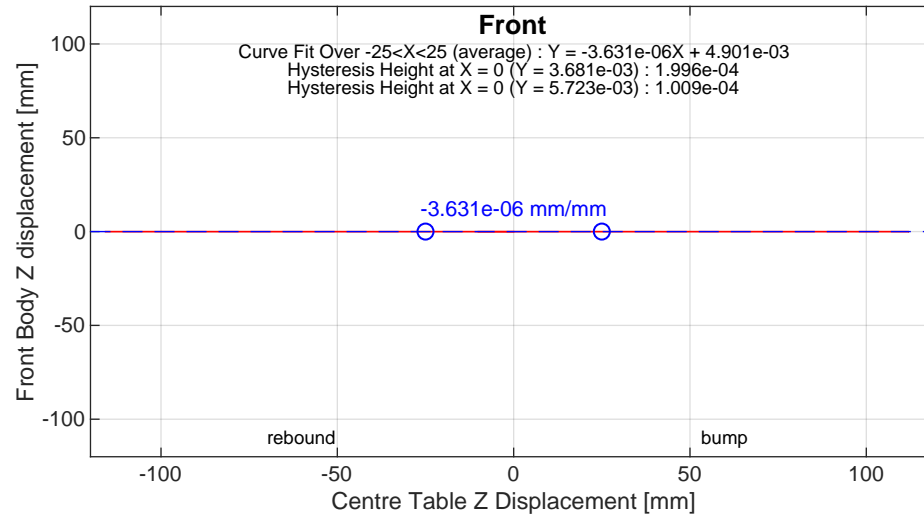
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



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SPMM Serial Number 31



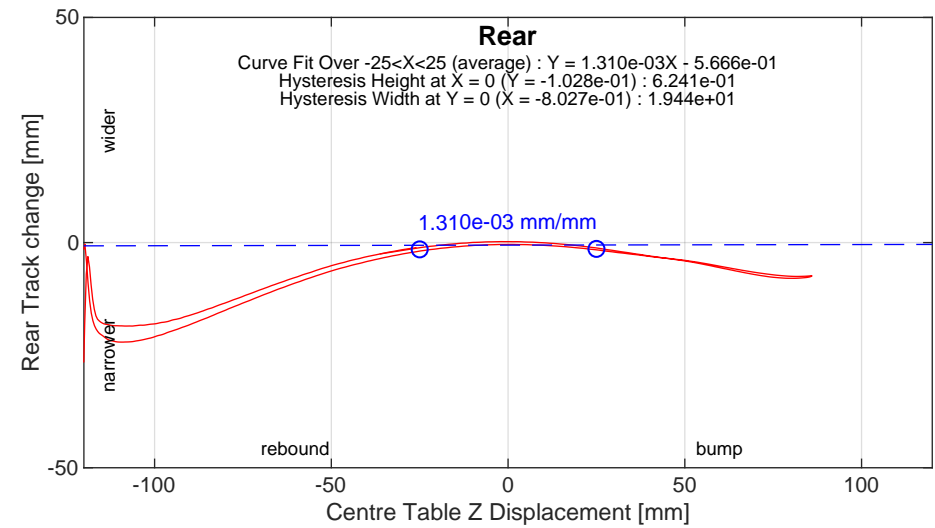
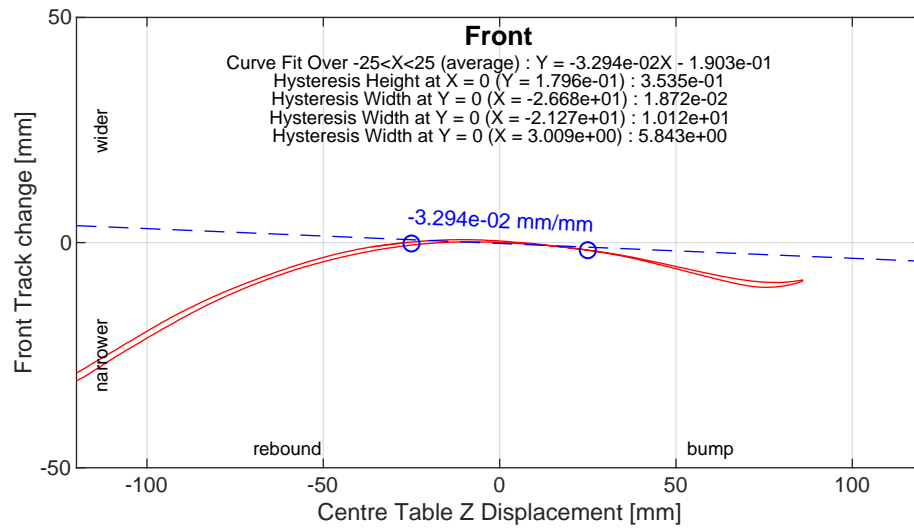
Bounce
Audi Q5
Body Vertical Displacement
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
 Test Run #1, Cycle #2
 Input : Linear, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



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 SPMM Serial Number 31



Bounce Audi Q5 Track Change

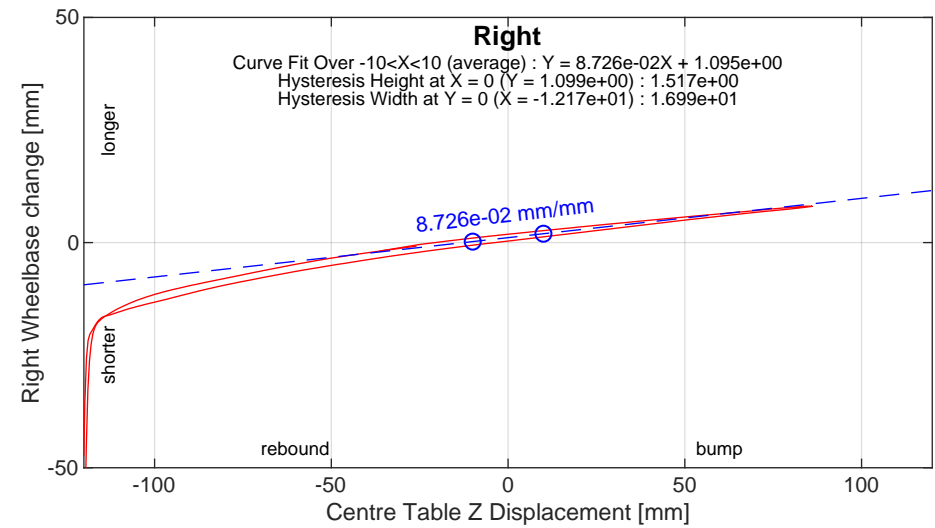
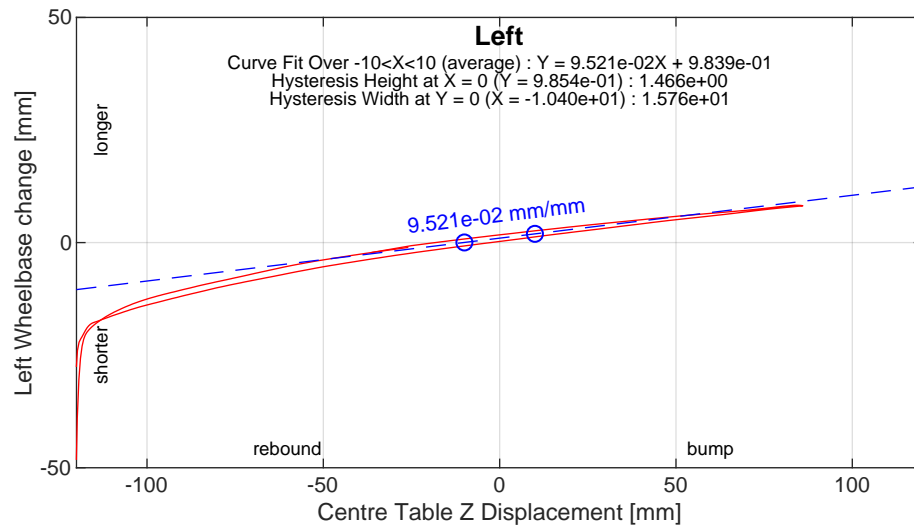
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
 Test Run #1, Cycle #2
 Input : Linear, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



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 SPMM Serial Number 31



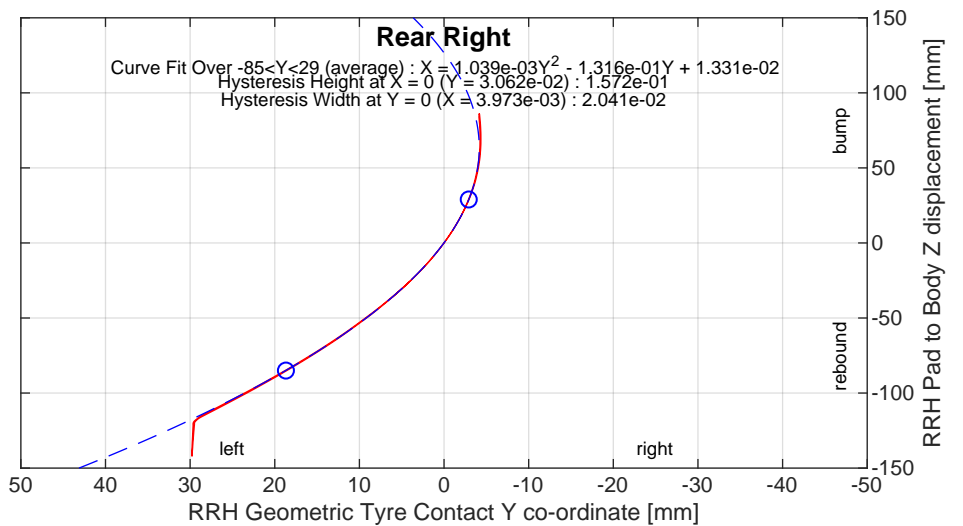
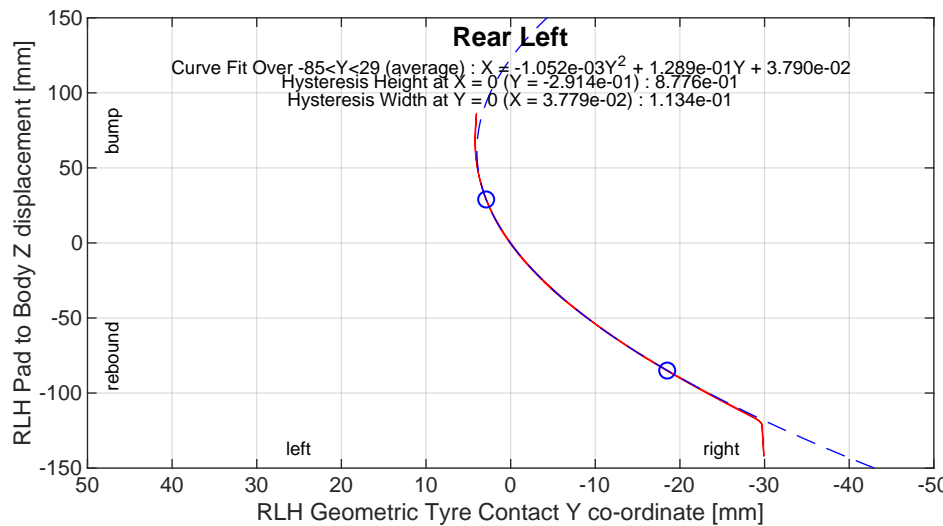
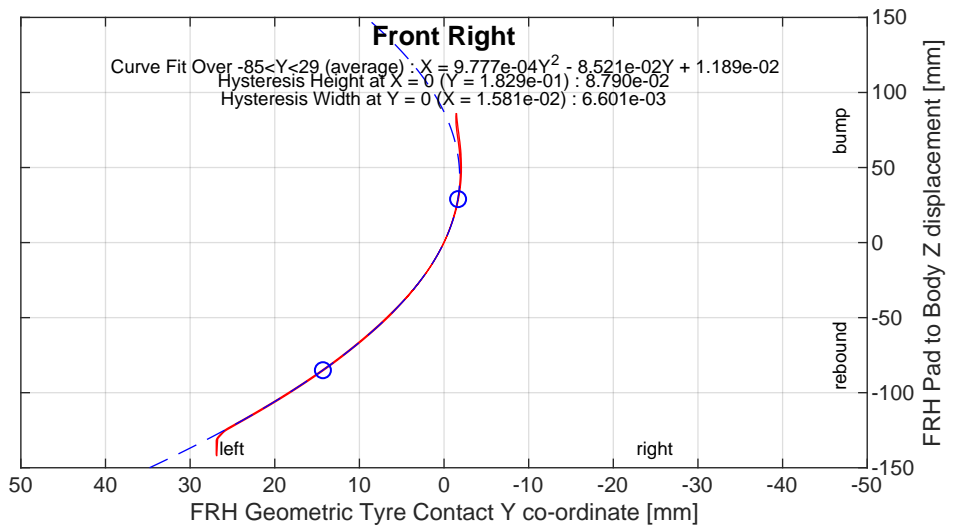
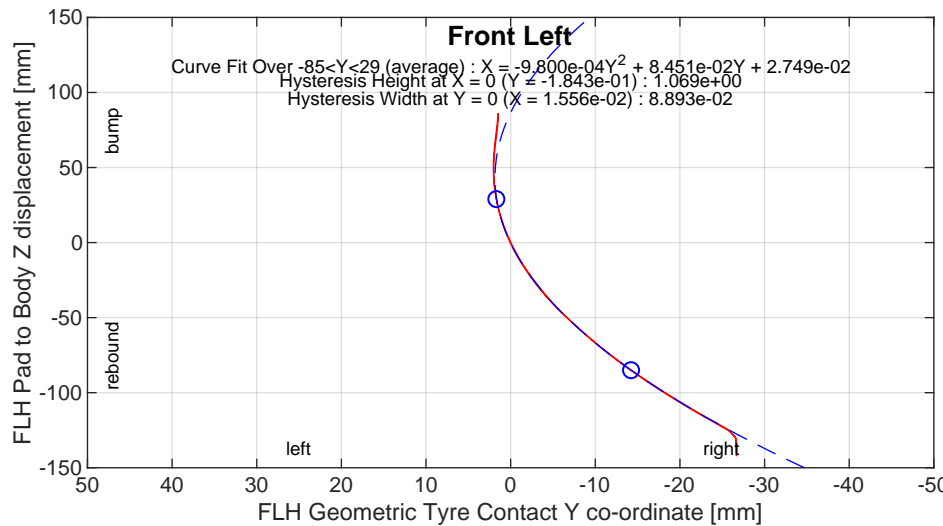
Bounce
Audi Q5
Wheelbase Change
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
 Test Run #1, Cycle #2
 Input : Linear, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



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 SPMM Serial Number 31



Bounce

Audi Q5

Roll Centre Curve Fits

Co-ordinate system : ISO Ground-fixed

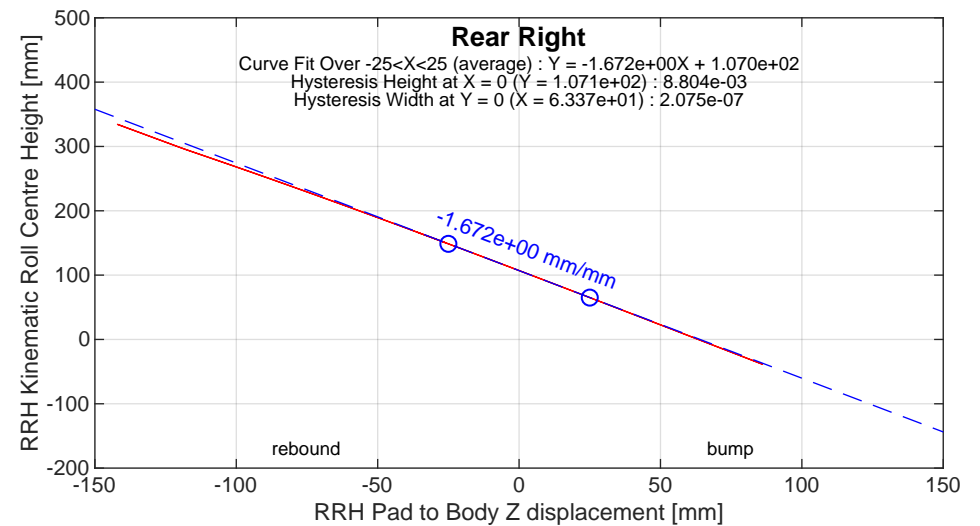
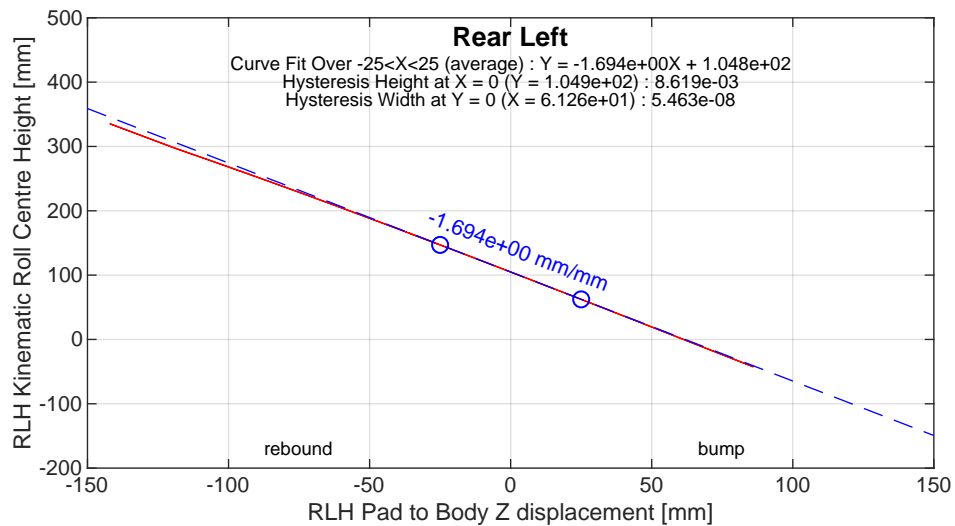
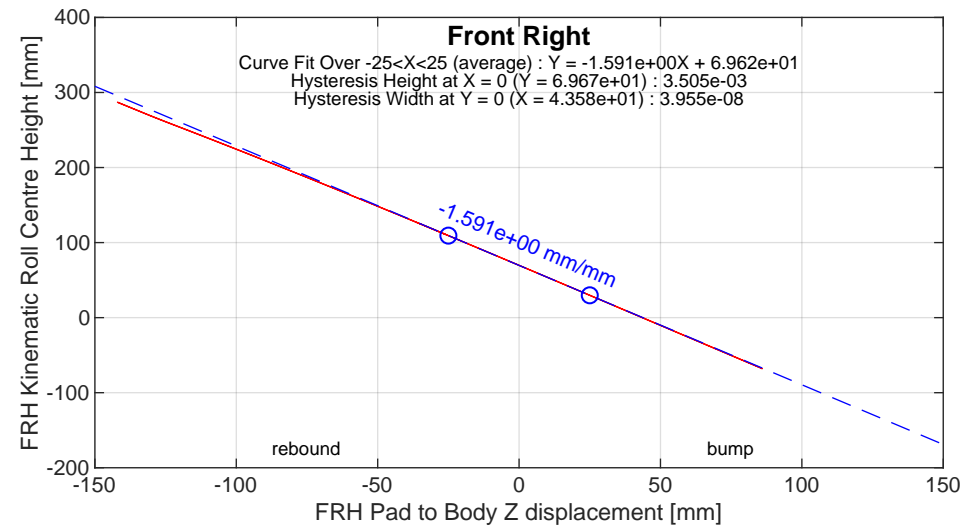
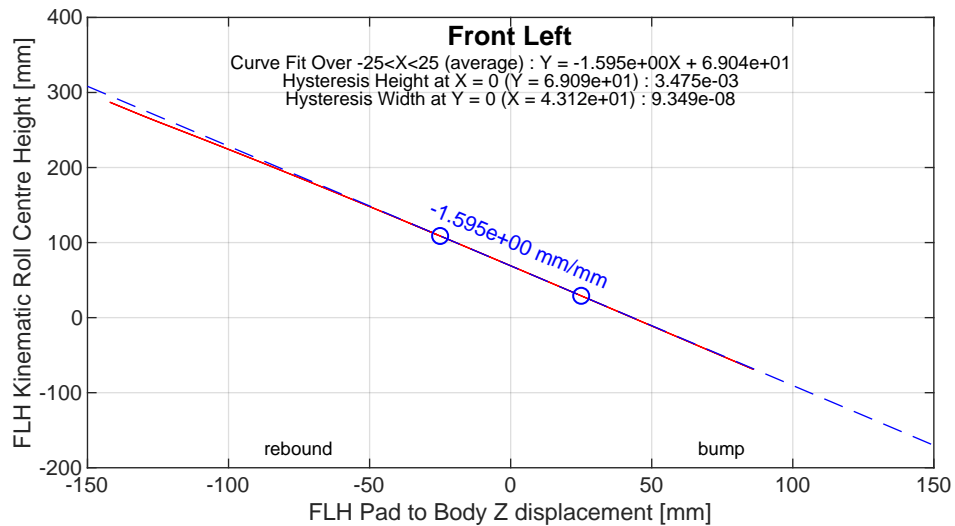
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



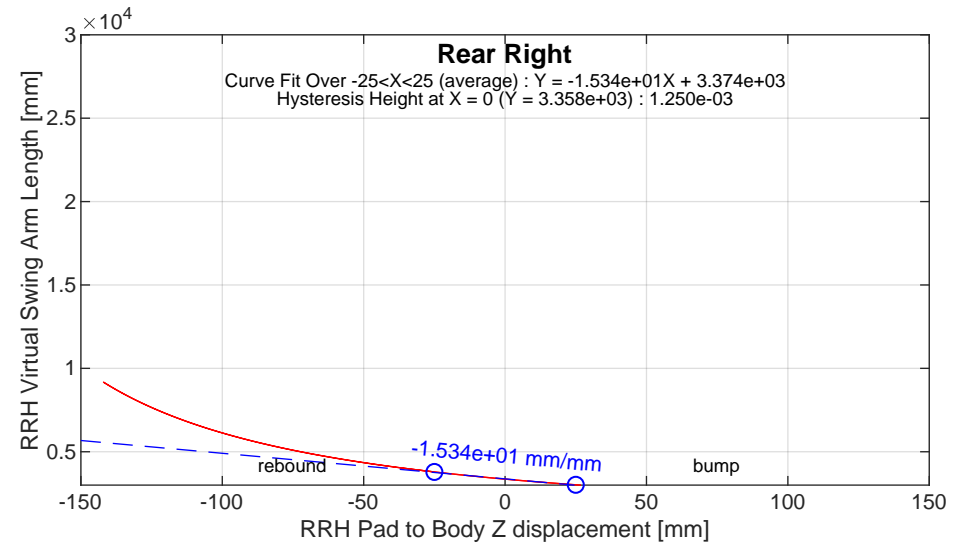
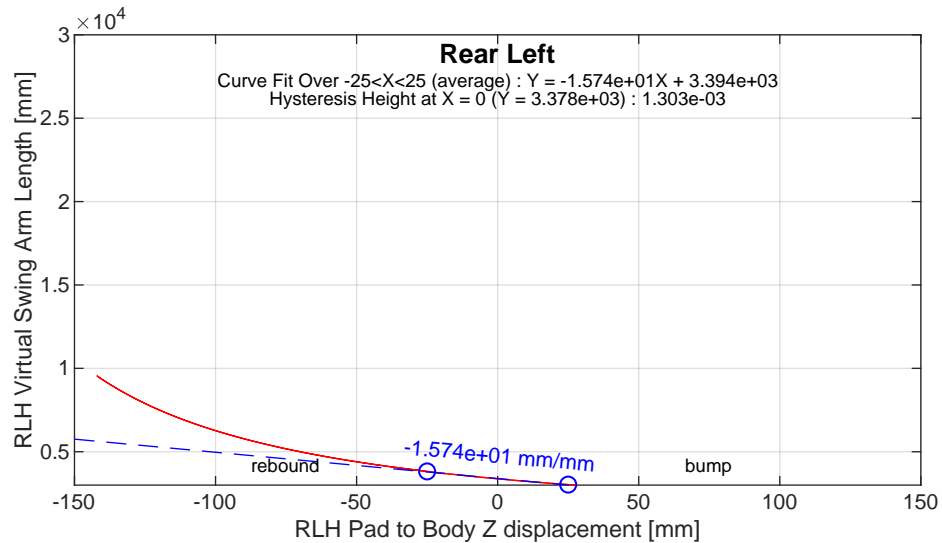
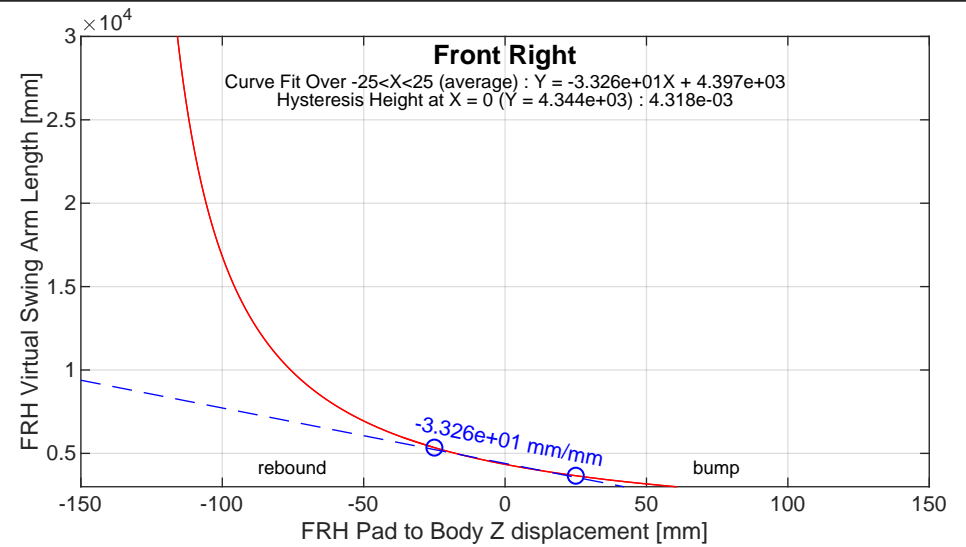
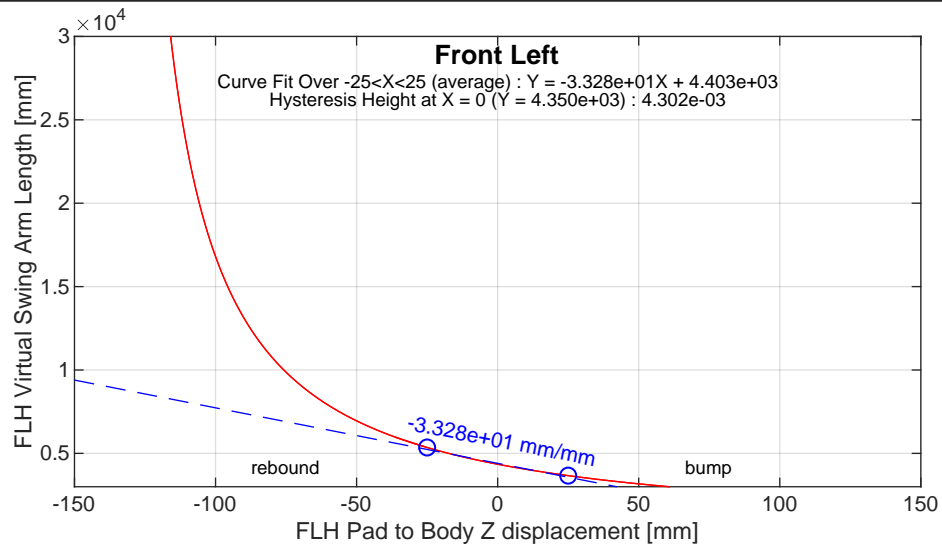
Bounce
Audi Q5
Kinematic Roll Centre Height
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



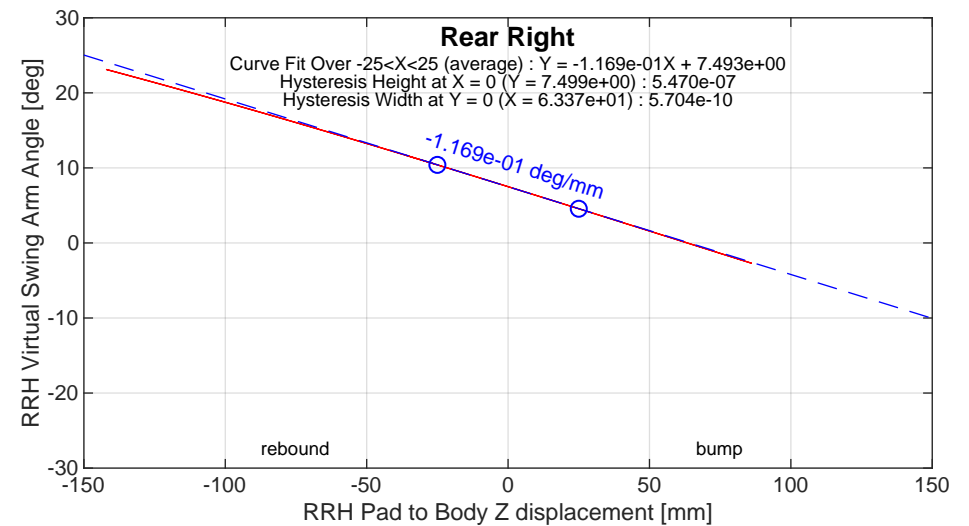
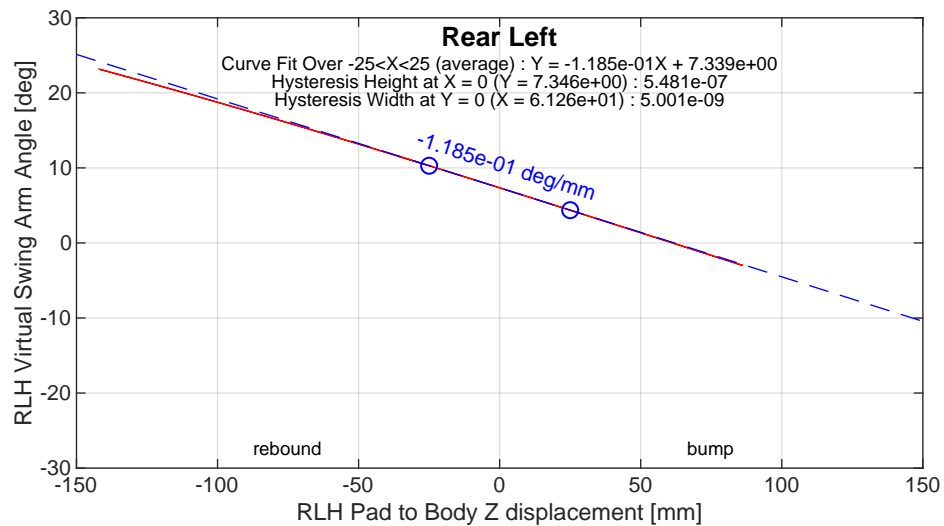
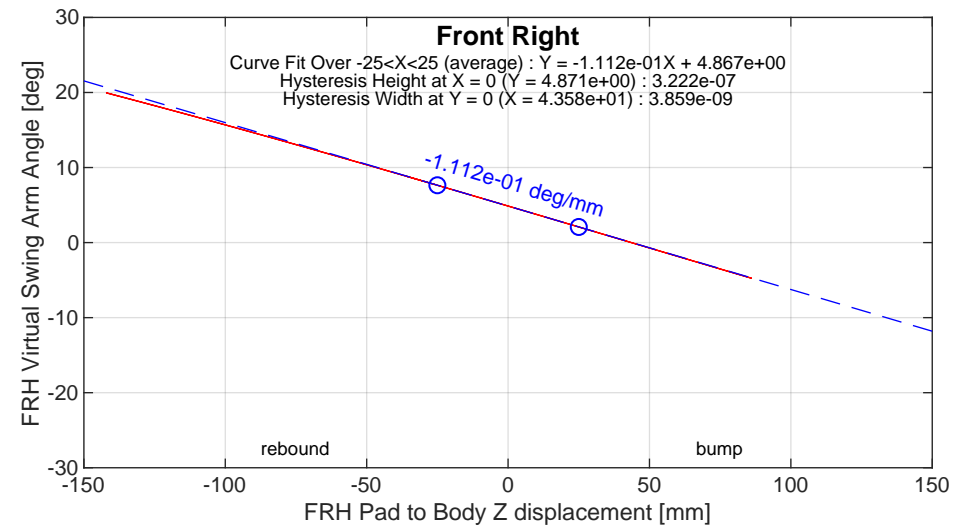
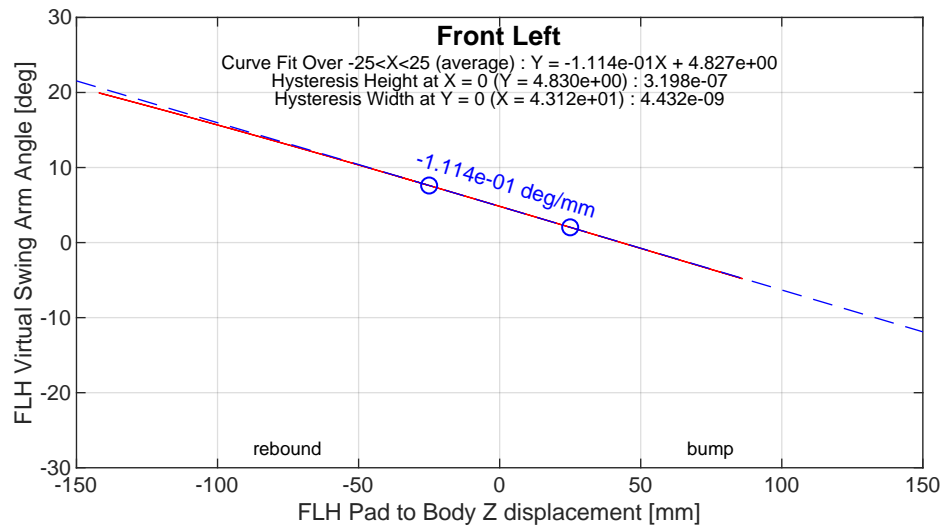
Bounce
Audi Q5
Virtual Swing Arm Length
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



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SPMM Serial Number 31



Bounce

Audi Q5

Virtual Swing Arm Angle

Co-ordinate system : ISO Ground-fixed

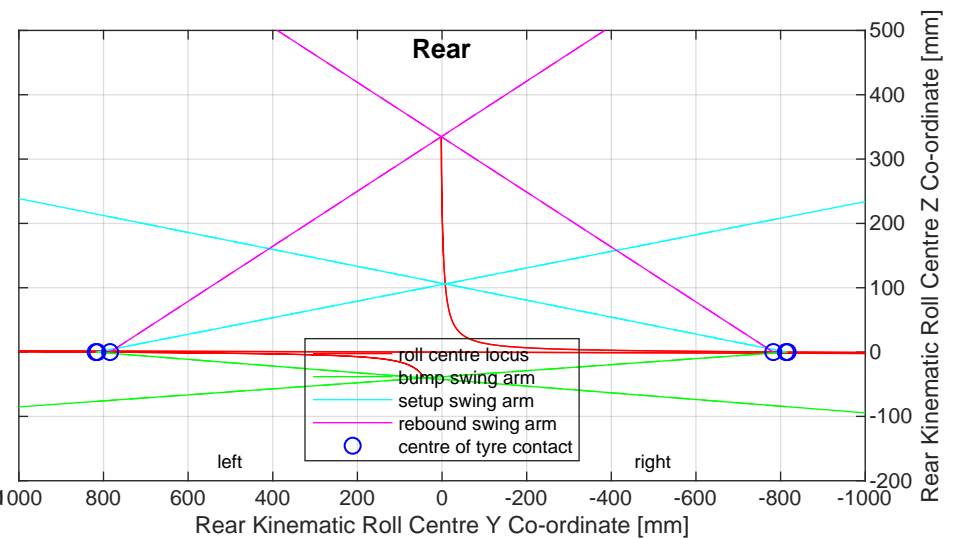
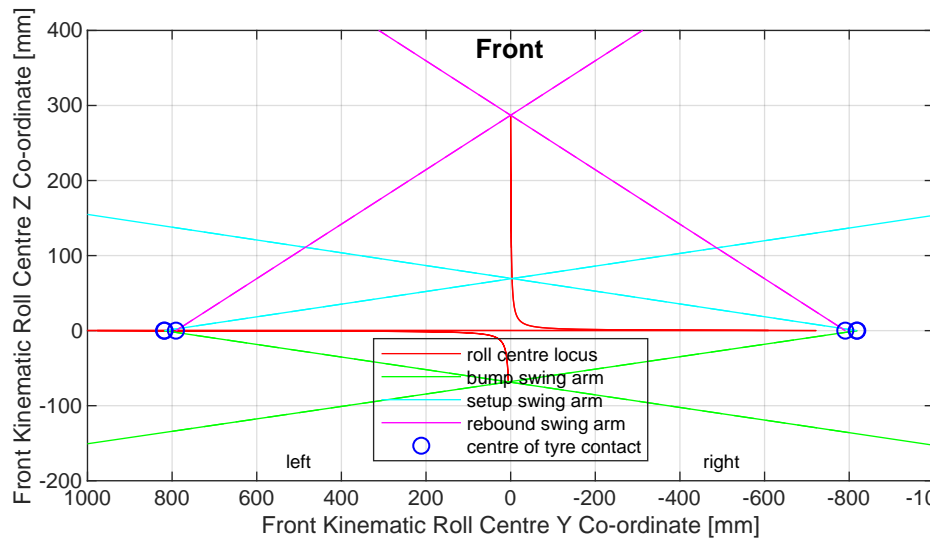
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
 Test Run #1, Cycle #2
 Input : Linear, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



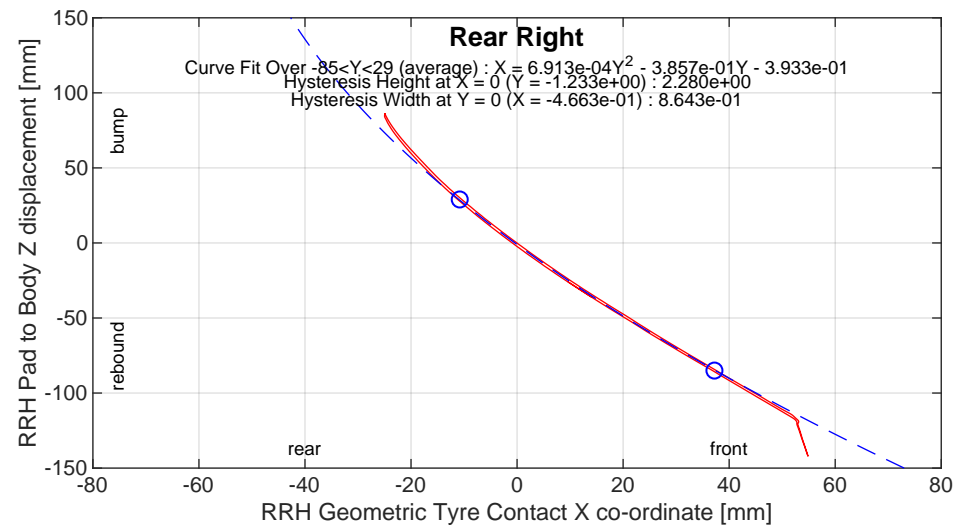
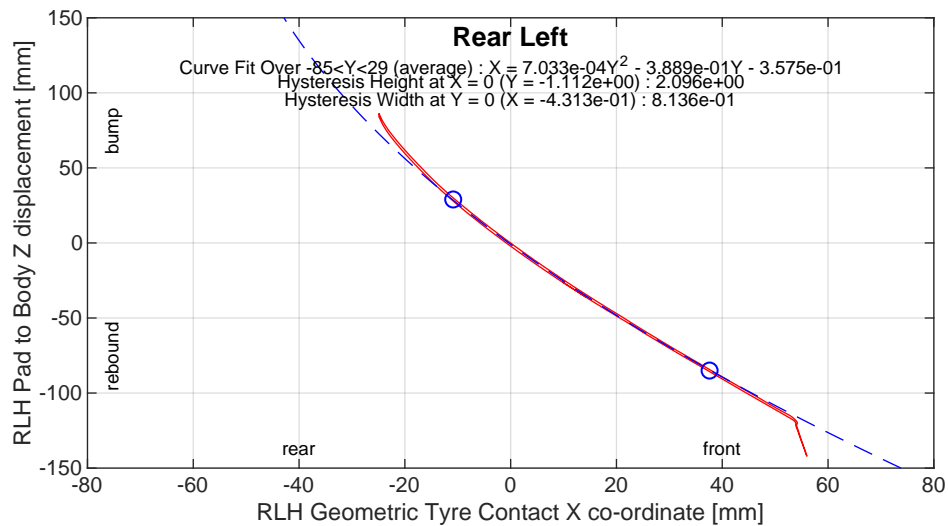
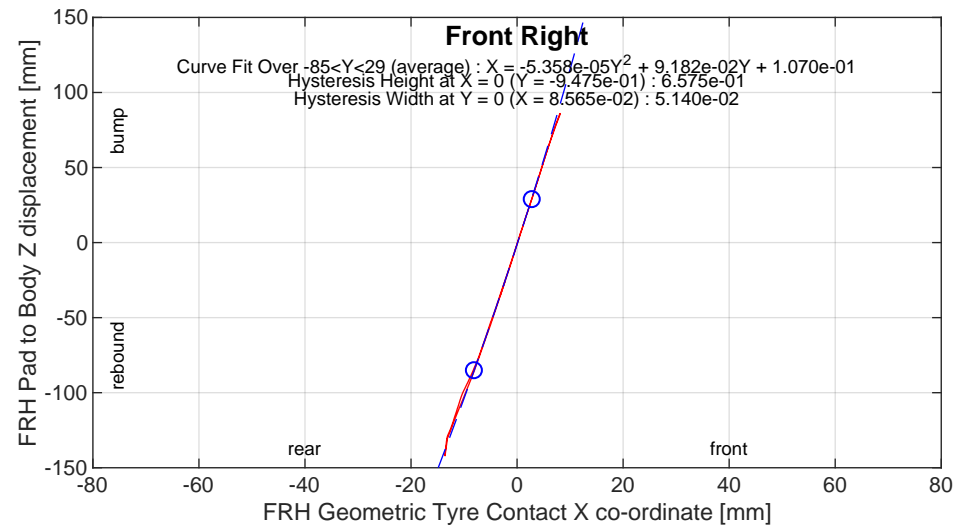
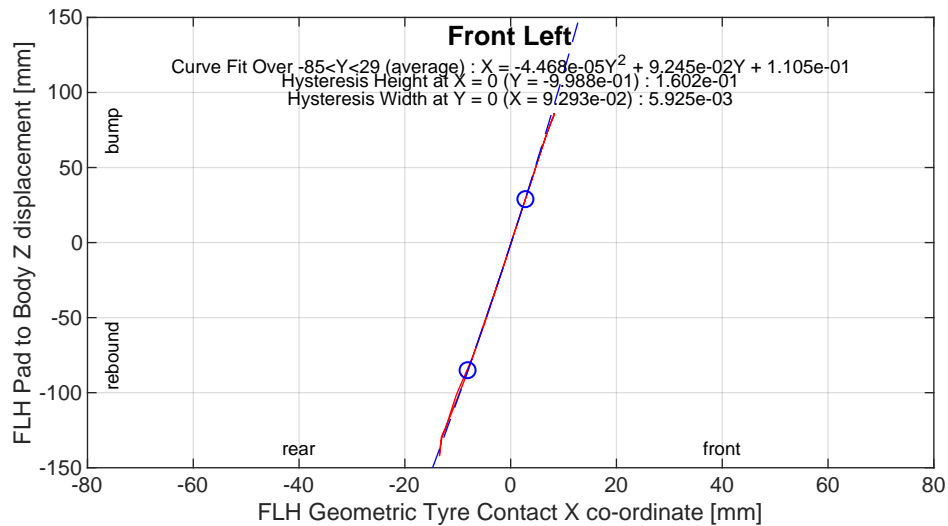
Bounce
Audi Q5
Kinematic Roll Centre Locus
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



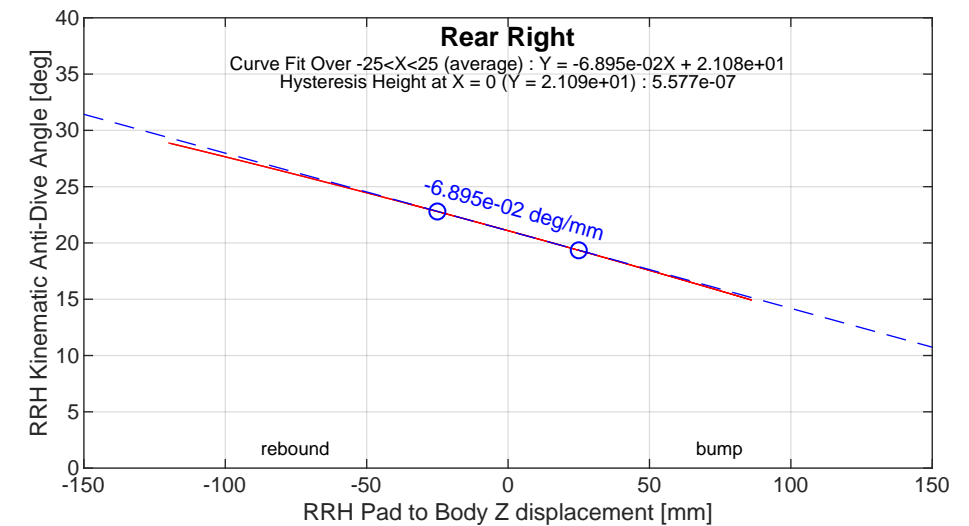
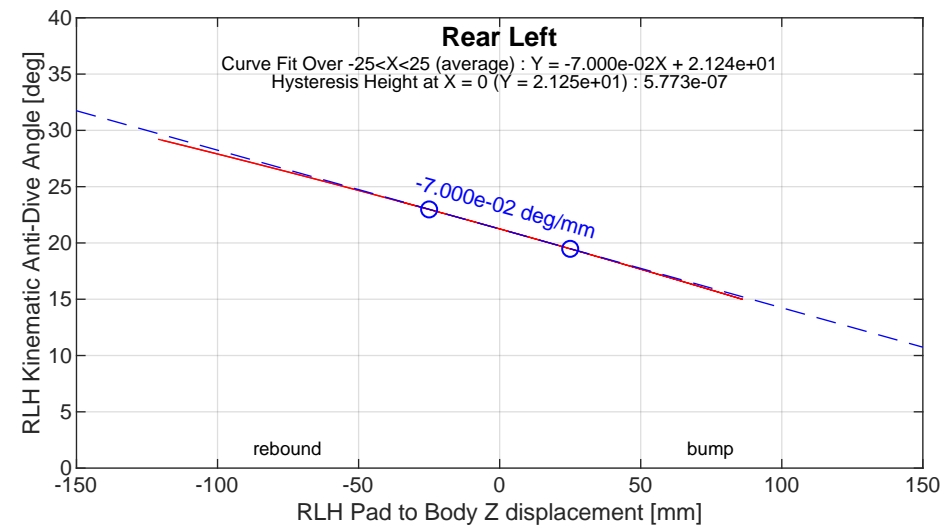
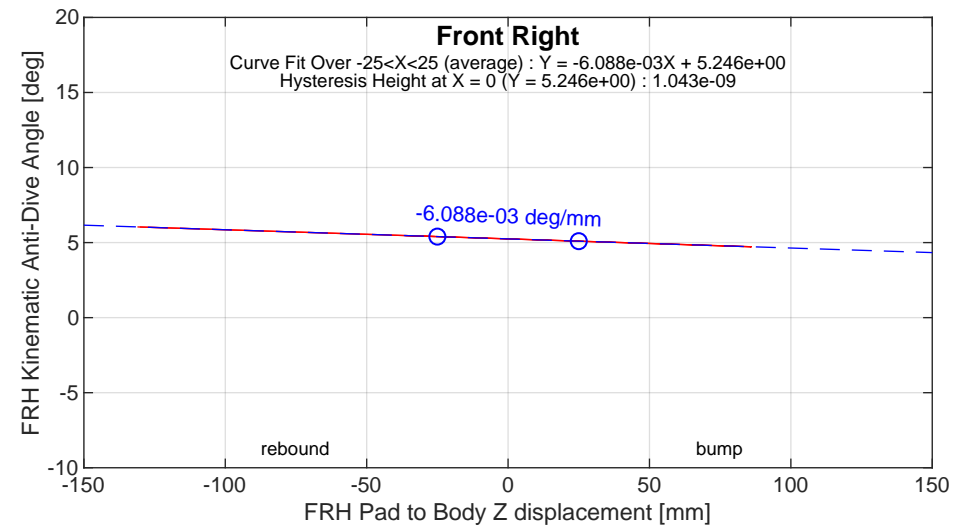
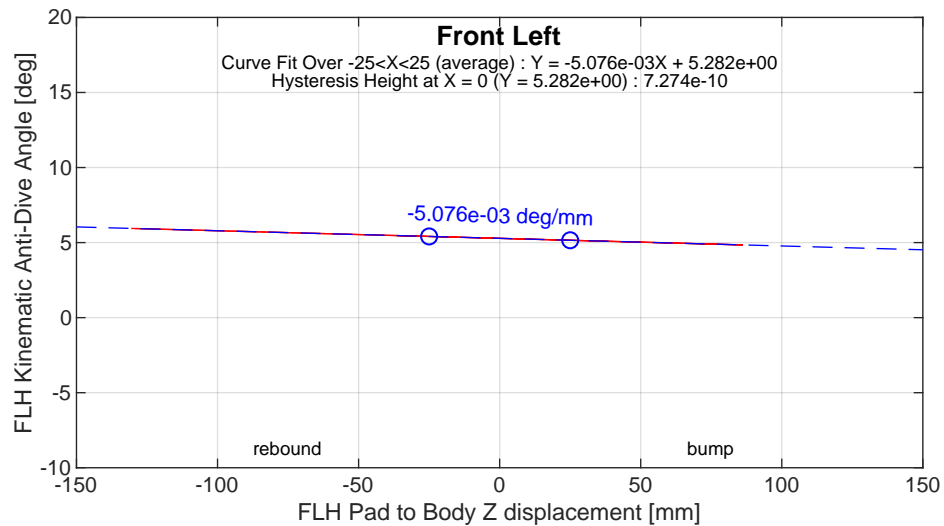
Bounce
Audi Q5
Anti-Dive Curve Fits
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



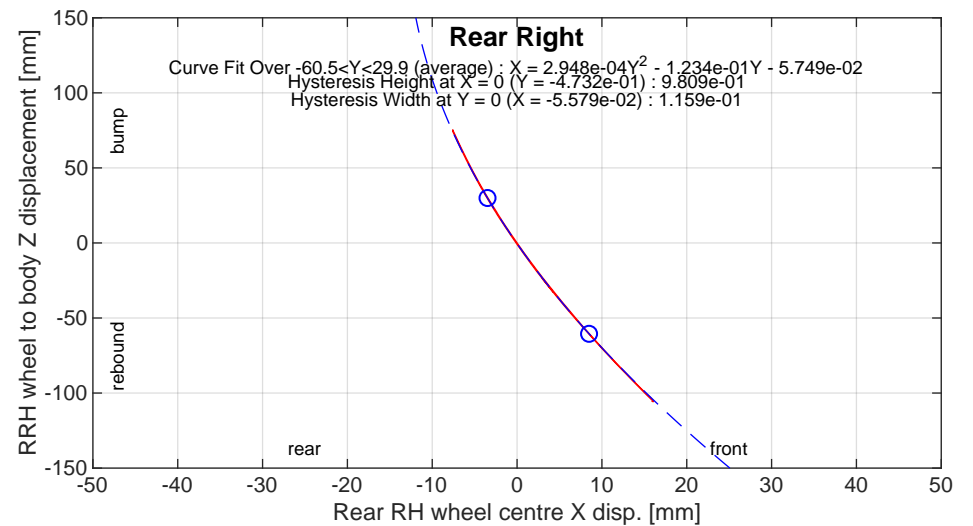
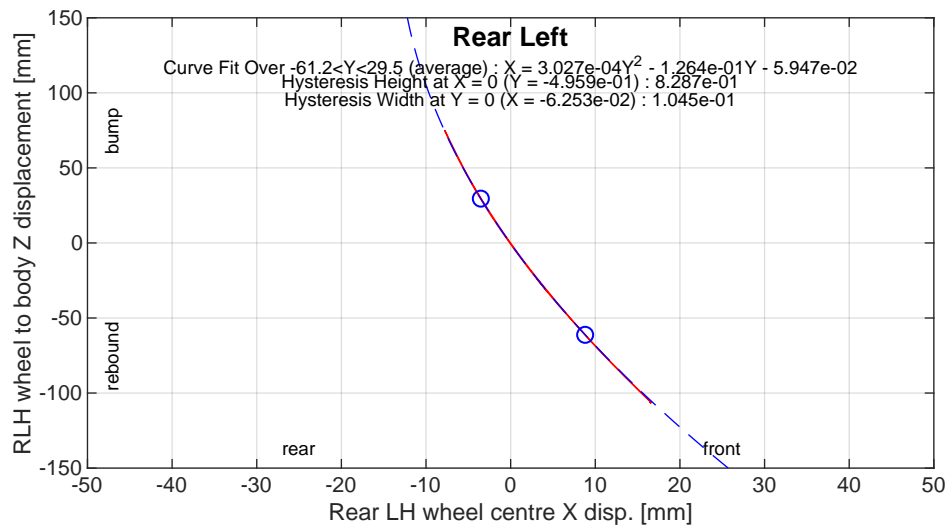
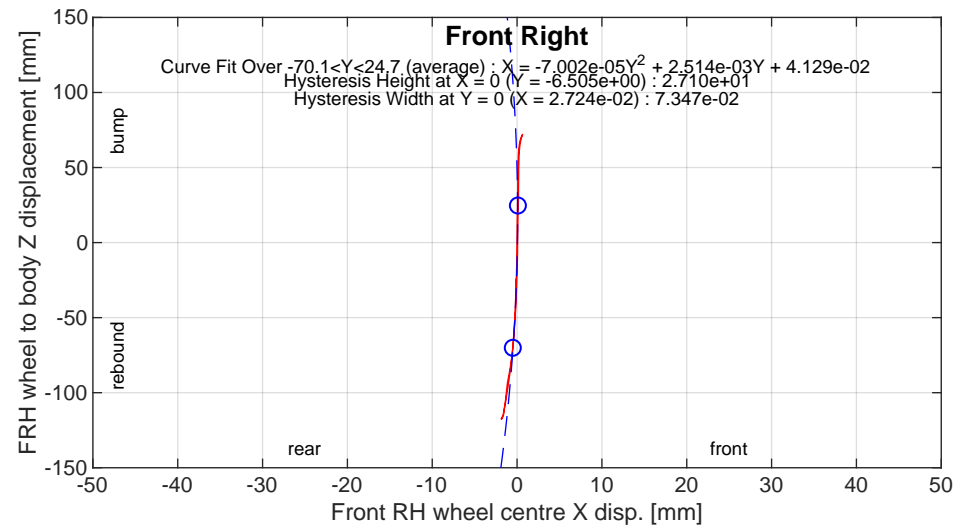
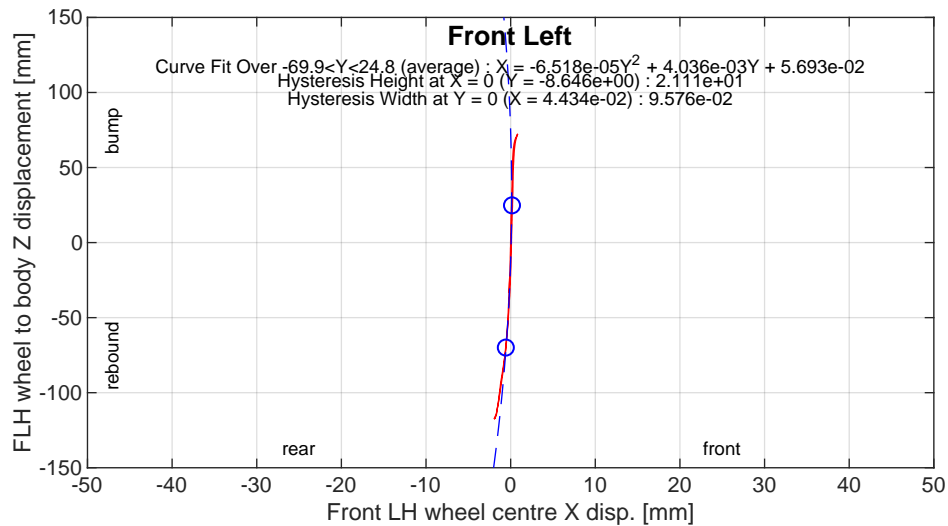
Bounce
Audi Q5
Kinematic Anti-Dive Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Anti-Squat Curve Fits

Co-ordinate system : ISO Ground-fixed

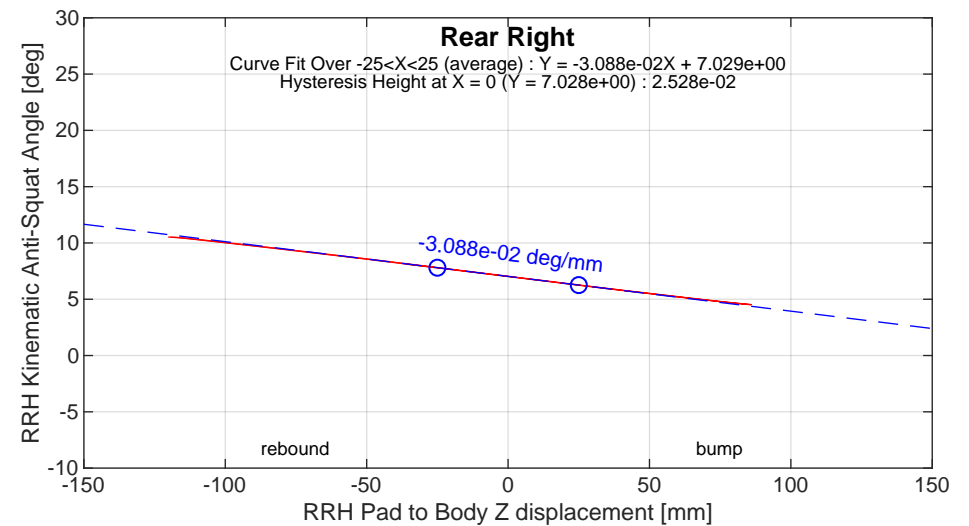
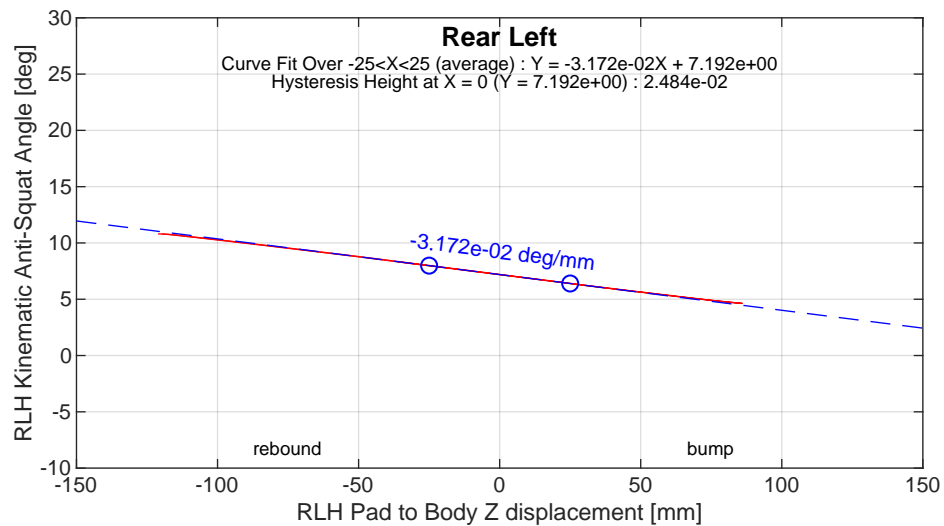
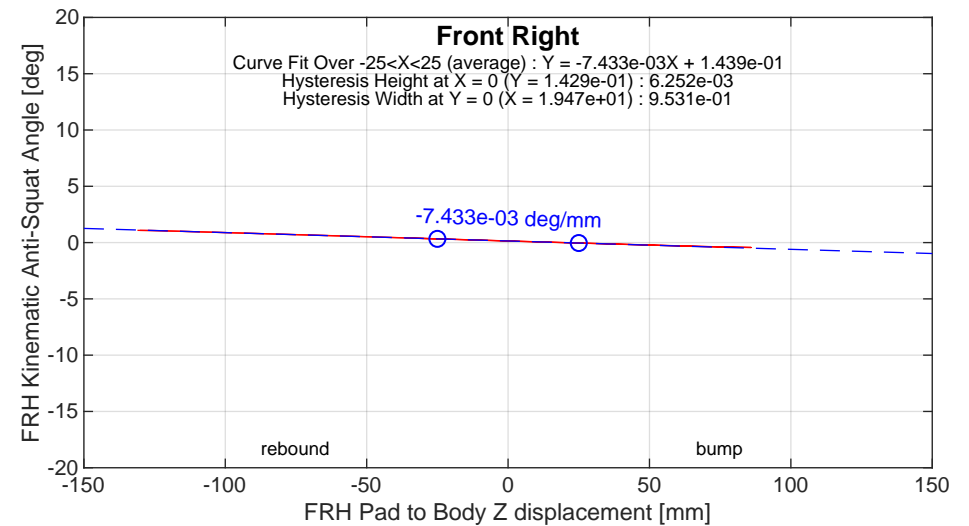
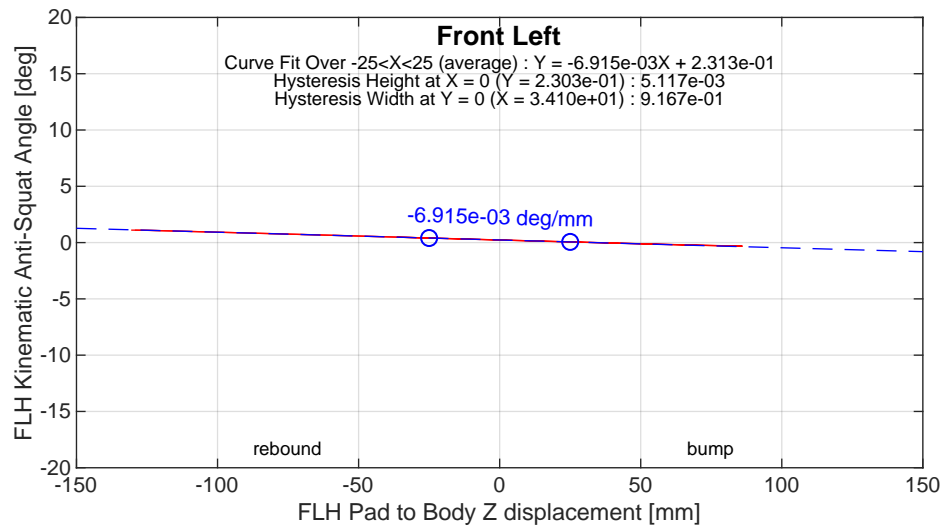
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce
Audi Q5
Kinematic Anti-Squat Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Vertical Bounce test (brakes on) Engine ON : Test #2 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31

Plotted Curve Fit Coefficients

Wheel Rates (FL/FR/RL/RR) [N/mm]:

2.403e+01	4.405e+03
2.327e+01	4.419e+03
2.765e+01	4.734e+03
2.821e+01	4.747e+03

Tyre Radial Rates (FL/FR/RL/RR) [N/mm]:

3.623e+02	4.470e+03
3.572e+02	4.495e+03
3.626e+02	4.842e+03
3.608e+02	4.805e+03

Ride Rates (FL/FR/RL/RR) [N/mm]:

2.261e+01	4.408e+03
2.192e+01	4.423e+03
2.569e+01	4.740e+03
2.616e+01	4.749e+03

Bump Steer (FL/FR/RL/RR) [deg/mm]:

-2.959e-03	-6.073e-03
-3.424e-03	-1.111e-02
2.233e-03	9.850e-03
3.034e-03	8.118e-03

Bump Camber (FL/FR/RL/RR) [deg/mm]:

-1.434e-02	-1.107e-02
-1.435e-02	-1.099e-02
-1.841e-02	-5.557e-03
-1.856e-02	-8.467e-03

Bump Spin (FL/FR/RL/RR) [deg/mm]:

-1.553e-02	-1.030e-02
-1.577e-02	-1.168e-02
4.700e-02	2.237e-02
4.711e-02	3.779e-02

Lateral Wheel Centre Displacement (FL/FR/RL/RR) [mm/mm]:

3.720e-03	-2.756e-01
-3.740e-03	3.131e-01
2.523e-02	-2.820e-01
-2.794e-02	3.265e-01

Wheel Recession (FL/FR/RL/RR) [mm/mm]:

4.282e-03	4.094e-02
2.752e-03	2.465e-02
-1.262e-01	2.045e-03
-1.232e-01	1.799e-03

Body Vertical Displacement (F/R) [mm/mm]:

-3.631e-06	4.901e-03
-5.618e-06	-3.593e-03

Track Change (F/R) [mm/mm]:

-3.294e-02	-1.903e-01
1.310e-03	-5.666e-01

Wheelbase Change (L/R) [mm/mm]:

9.521e-02	9.839e-01
8.726e-02	1.095e+00

Roll Centre Curve Fits (FL/FR/RL/RR) [mm/mm]:

-9.800e-04	8.451e-02	2.749e-02
9.777e-04	-8.521e-02	1.189e-02
-1.052e-03	1.289e-01	3.790e-02
1.039e-03	-1.316e-01	1.331e-02

Kinematic Roll Centre Height (FL/FR/RL/RR) [mm/mm]:

-1.595e+00	6.904e+01
-1.591e+00	6.962e+01
-1.694e+00	1.048e+02
-1.672e+00	1.070e+02

Virtual Swing Arm Length (FL/FR/RL/RR) [mm/mm]:

-3.328e+01	4.403e+03
-3.326e+01	4.397e+03
-1.574e+01	3.394e+03

-1.534e+01 3.374e+03

Virtual Swing Arm Angle (FL/FR/RL/RR) [deg/mm]:

-1.114e-01 4.827e+00
-1.112e-01 4.867e+00
-1.185e-01 7.339e+00
-1.169e-01 7.493e+00

Anti-Dive Curve Fits (FL/FR/RL/RR) [mm/mm]:

-4.468e-05 9.245e-02 1.105e-01
-5.358e-05 9.182e-02 1.070e-01
7.033e-04 -3.889e-01 -3.575e-01
6.913e-04 -3.857e-01 -3.933e-01

Kinematic Anti-Dive Angle (FL/FR/RL/RR) [deg/mm]:

-5.076e-03 5.282e+00
-6.088e-03 5.246e+00
-7.000e-02 2.124e+01
-6.895e-02 2.108e+01

Anti-Squat Curve Fits (FL/FR/RL/RR) [mm/mm]:

-6.518e-05 4.036e-03 5.693e-02
-7.002e-05 2.514e-03 4.129e-02
3.027e-04 -1.264e-01 -5.947e-02
2.948e-04 -1.234e-01 -5.749e-02

Kinematic Anti-Squat Angle (FL/FR/RL/RR) [deg/mm]:

-6.915e-03 2.313e-01
-7.433e-03 1.439e-01
-3.172e-02 7.192e+00
-3.088e-02 7.029e+00

Calculated Parameters

Kinematic Roll Centre Heights (FL/FR/RL/RR) [mm]:

6.909e+01
6.967e+01
1.049e+02
1.071e+02

Virtual Swing Arm Lengths (FL/FR/RL/RR) [mm]:

4.350e+03

4.344e+03

3.378e+03

3.358e+03

Virtual Swing Arm Angles (FL/FR/RL/RR) [deg]:

4.830e+00

4.871e+00

7.346e+00

7.499e+00

Kinematic Roll Center Height (F/R) [mm]:

6.938e+01

1.060e+02

Kinematic Roll Center Lateral Offset (F/R) [mm]:

-3.356e+00

-7.560e+00

Kinematic Anti-dive Angles (FL/FR/RL/RR) [deg]:

5.282e+00

5.246e+00

2.125e+01

2.109e+01

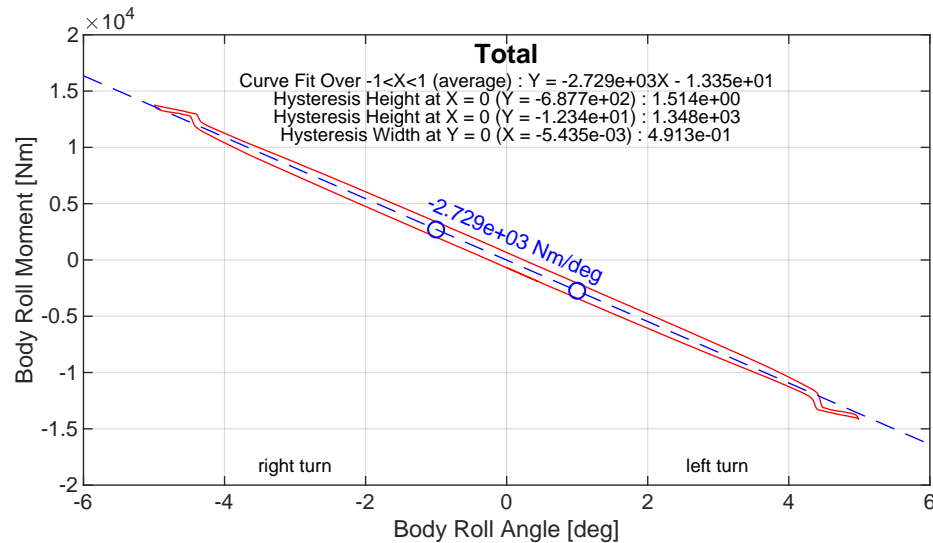
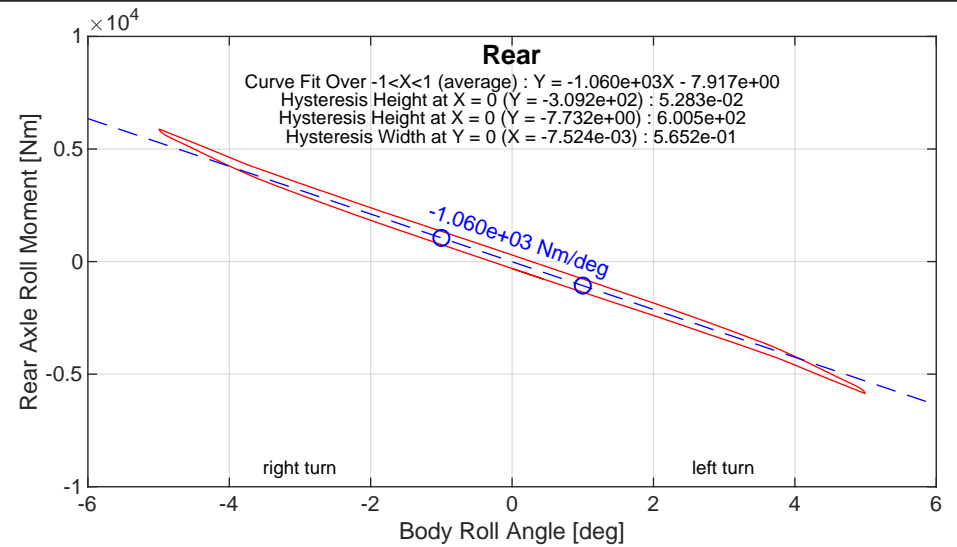
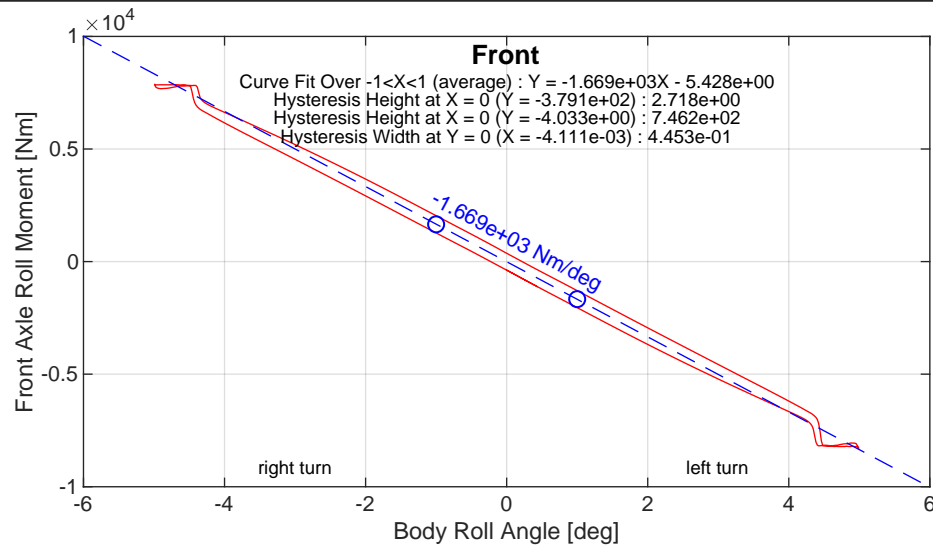
Kinematic Anti-Squat Angles (FL/FR/RL/RR) [deg]:

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1.429e-01

7.192e+00

7.028e+00



Roll Audi Q5

Roll Stiffnesses

Co-ordinate system : ISO Ground-fixed

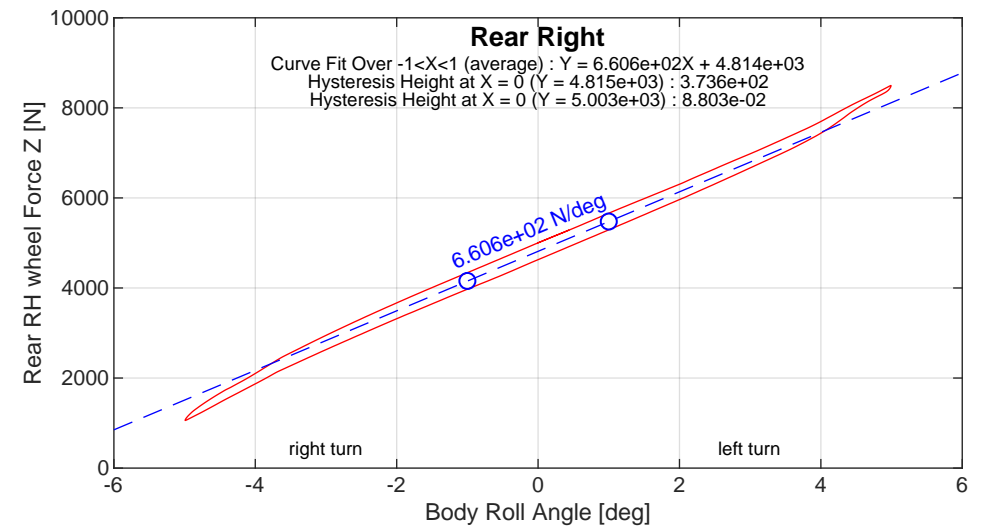
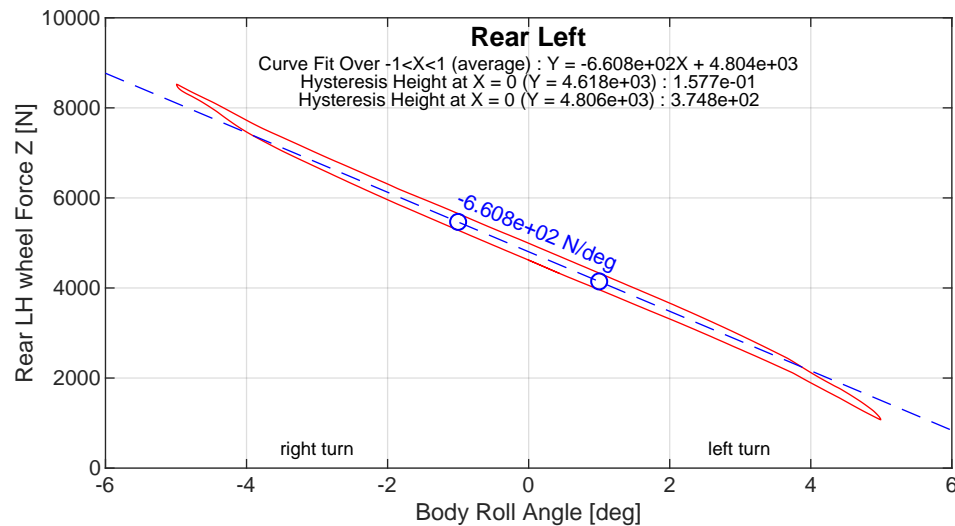
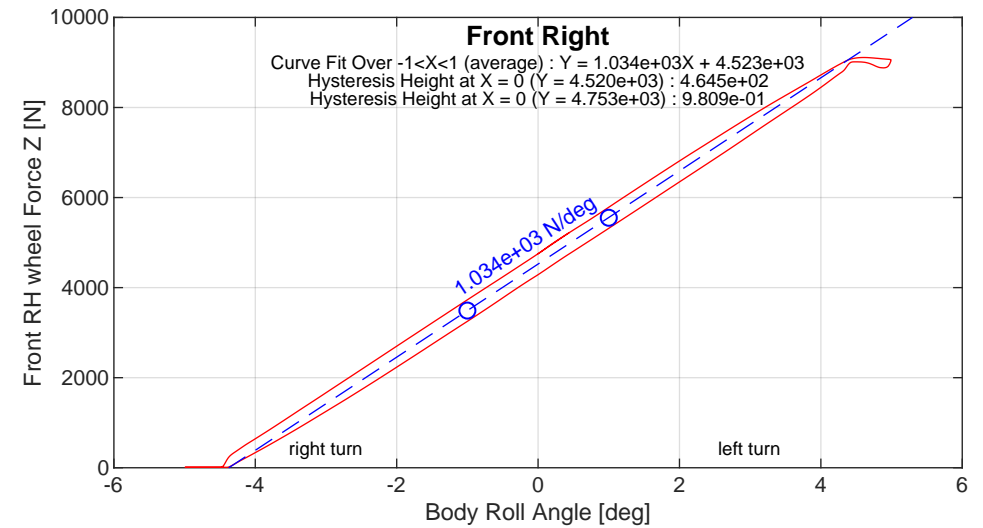
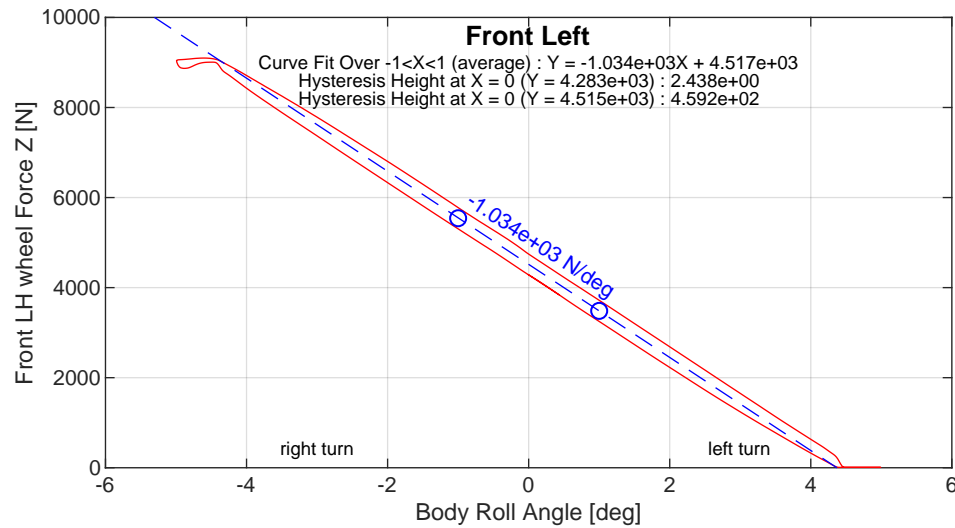
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Roll Test at Constant Axle Load (brakes on) : Test #3 of 9
 Test Run #1, Cycle #2
 Input : Linear, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



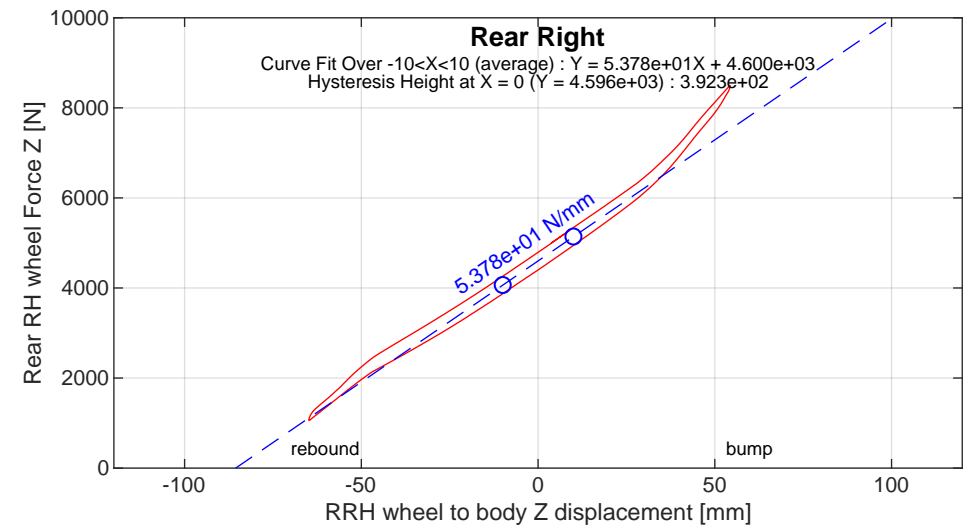
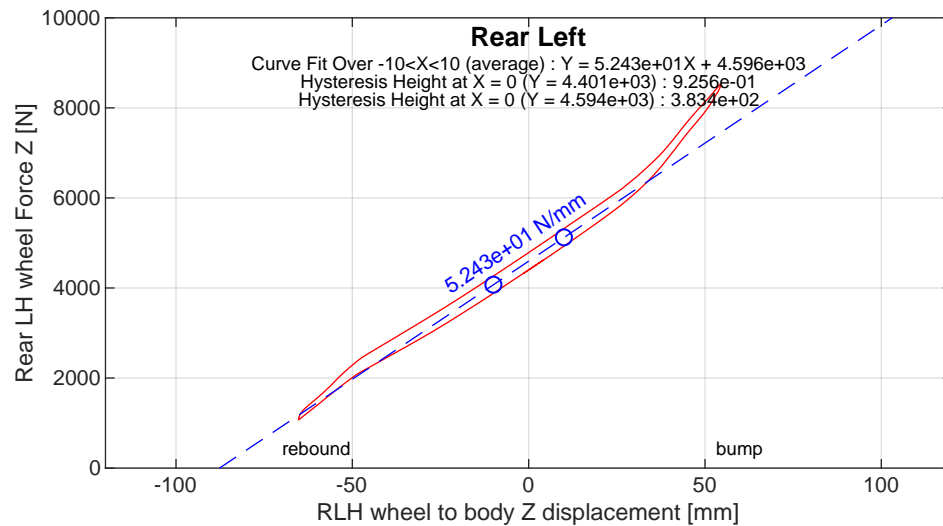
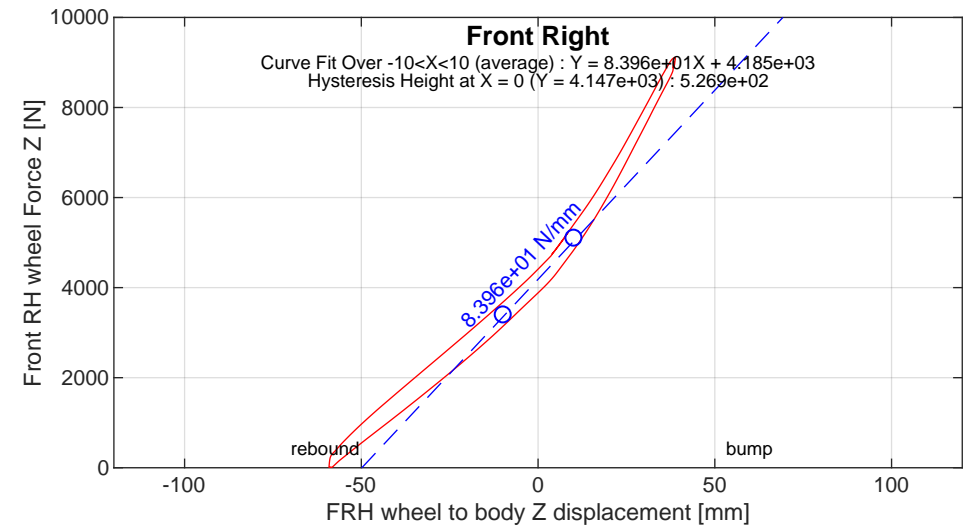
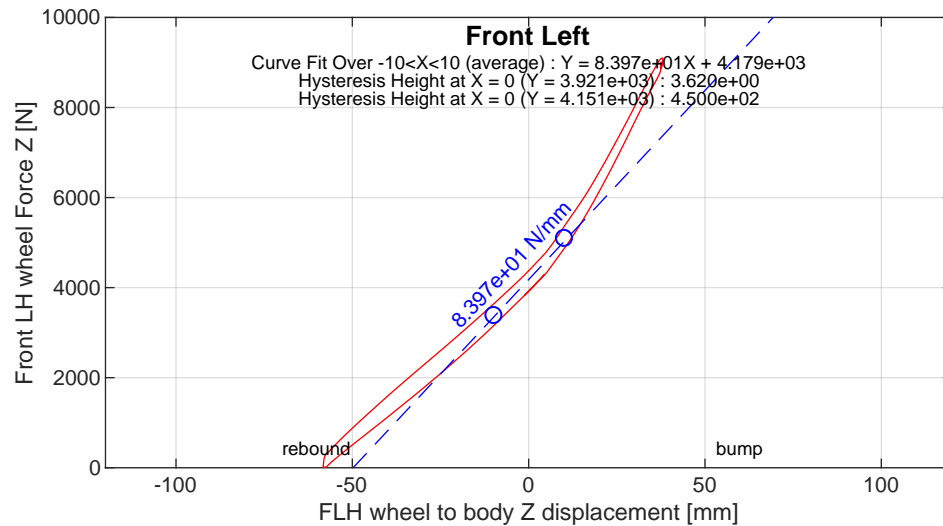
Roll
Audi Q5
Wheel Vertical Loads v Roll Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Roll Test at Constant Axle Load (brakes on) : Test #3 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



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SPMM Serial Number 31



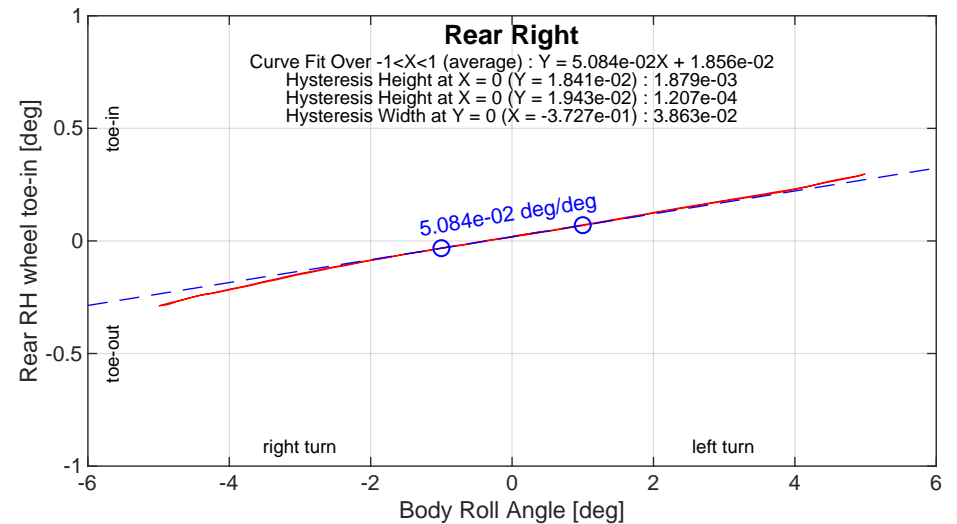
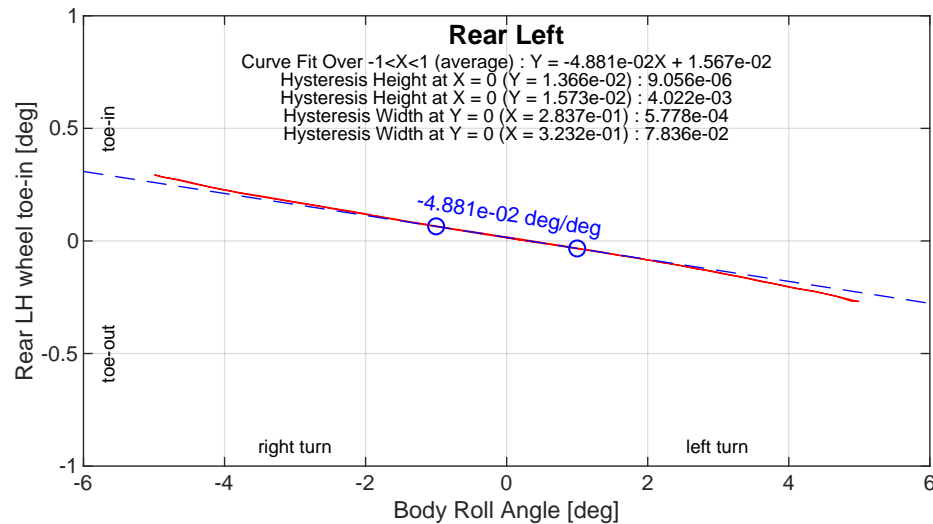
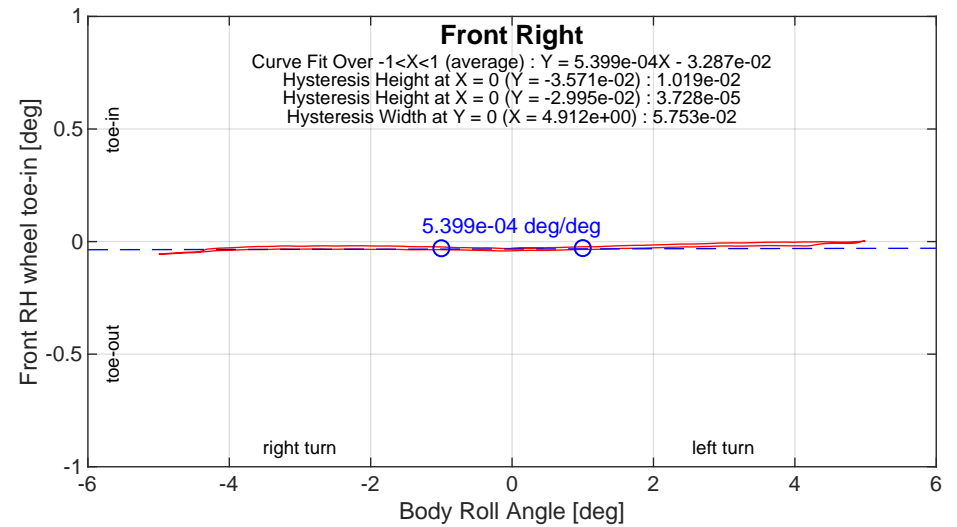
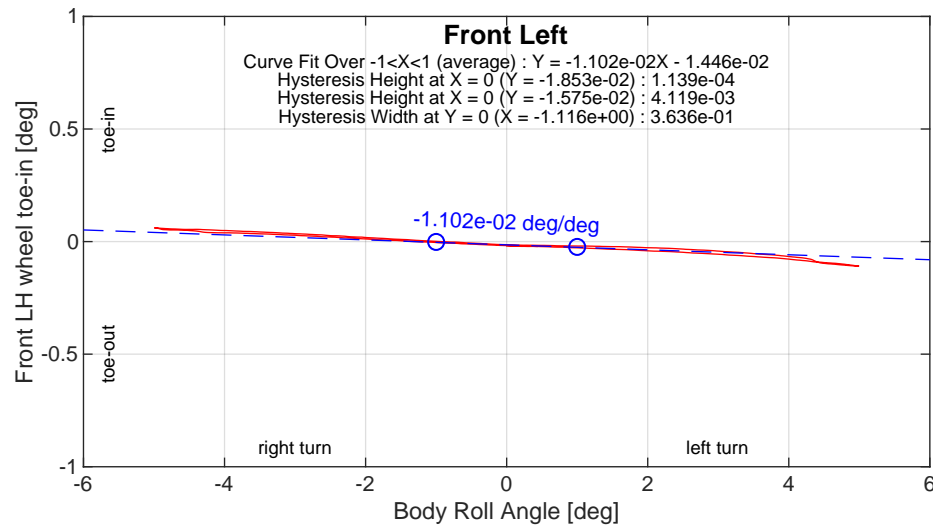
Roll
Audi Q5
Wheel Vertical Rates
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Roll Test at Constant Axle Load (brakes on) : Test #3 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



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SPMM Serial Number 31



Roll
Audi Q5

Roll Steer v Roll Angle

Co-ordinate system : ISO Ground-fixed

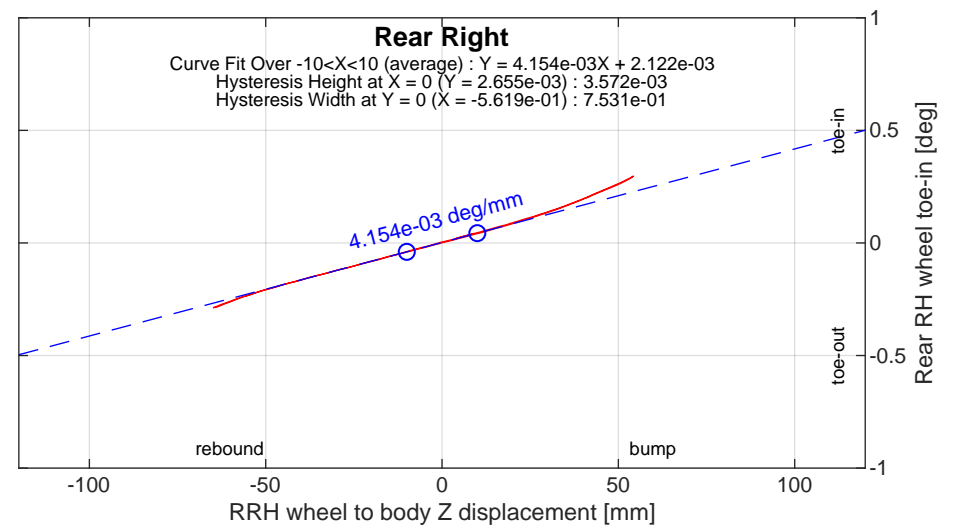
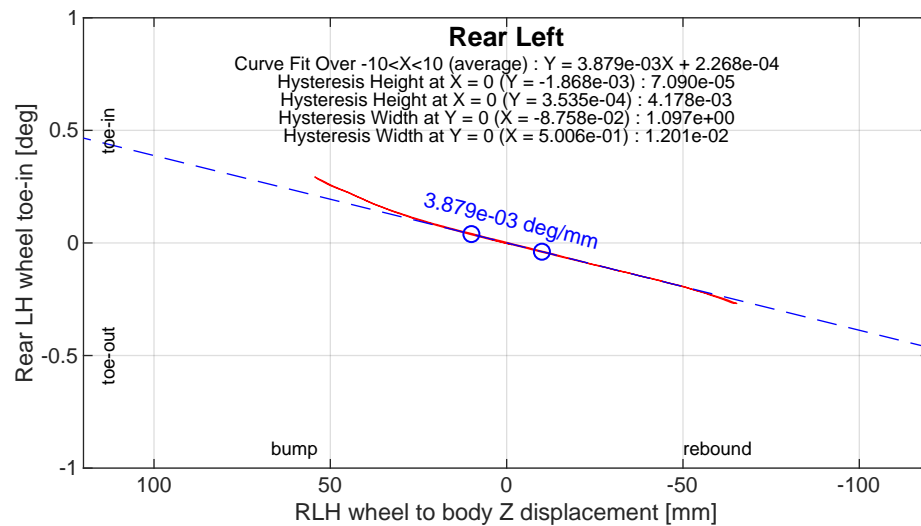
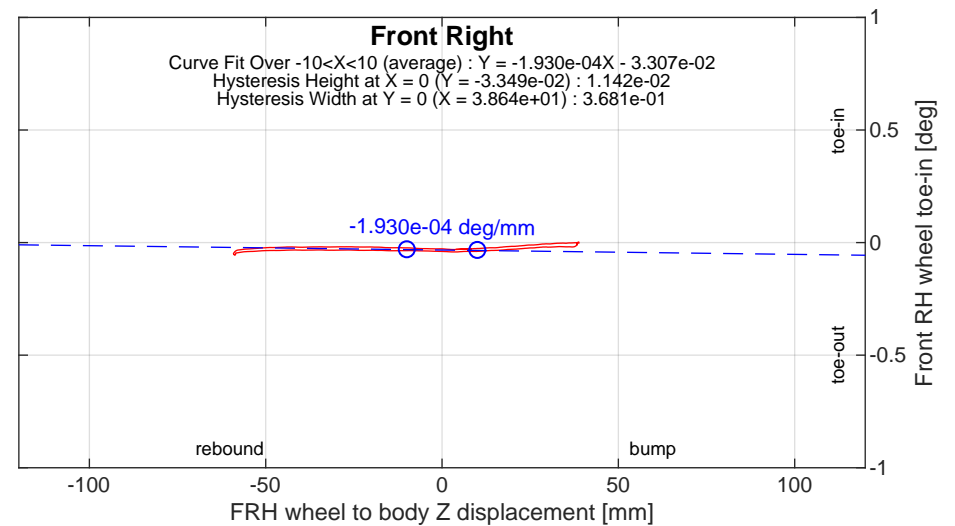
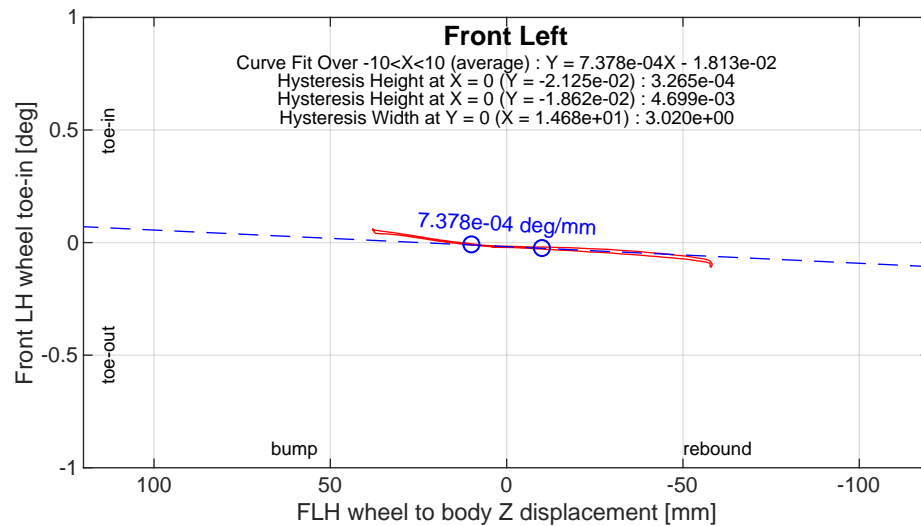
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Roll Test at Constant Axle Load (brakes on) : Test #3 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



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SPMM Serial Number 31



Roll
Audi Q5

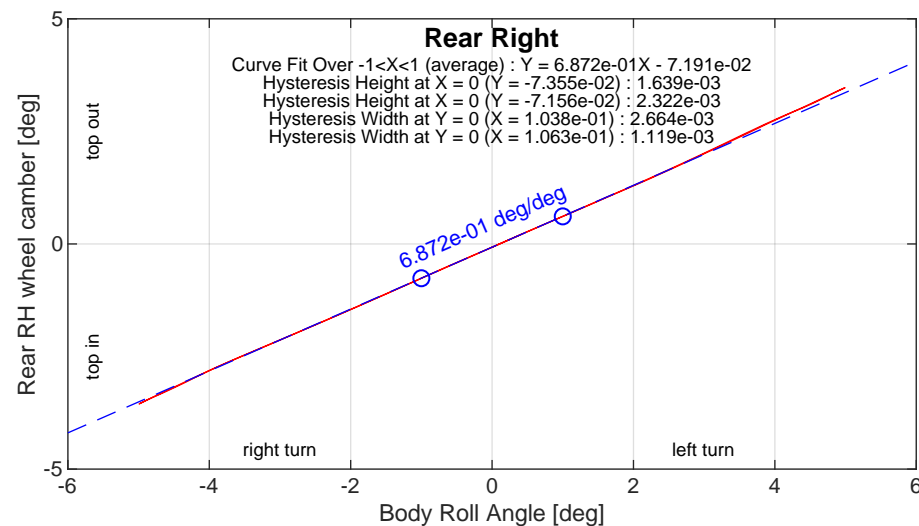
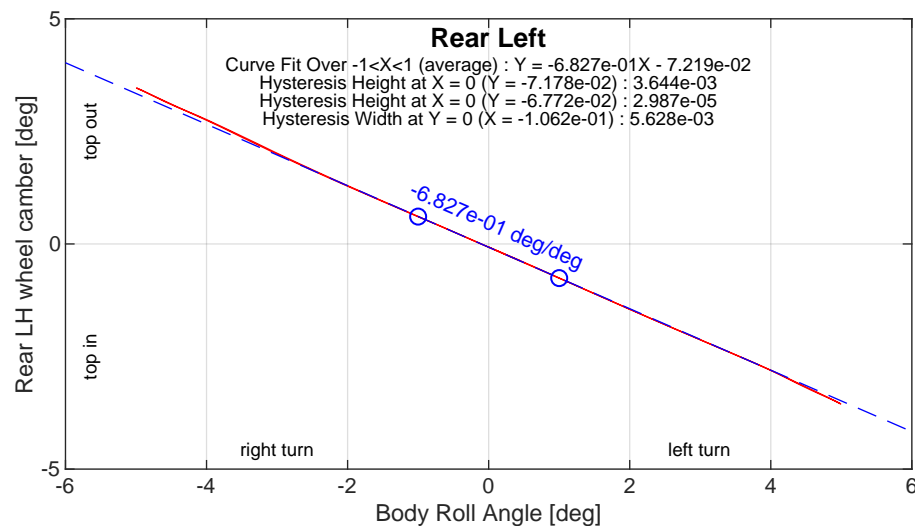
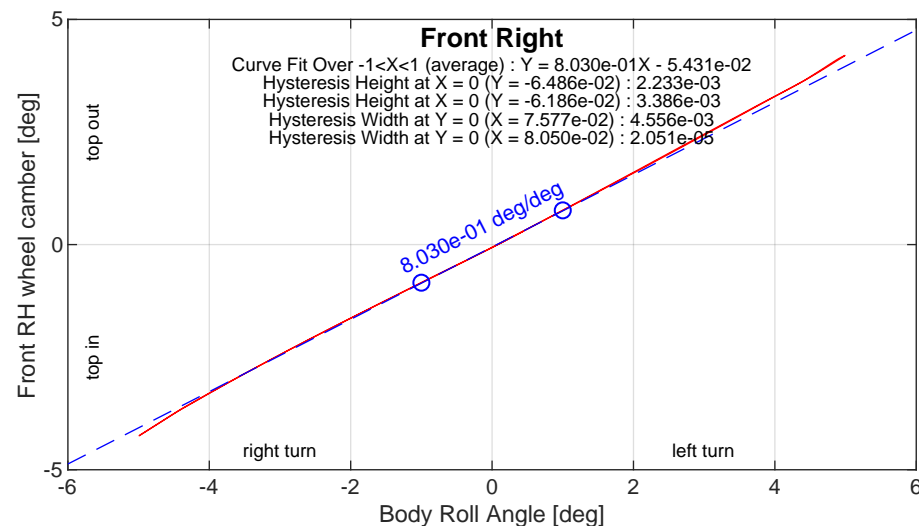
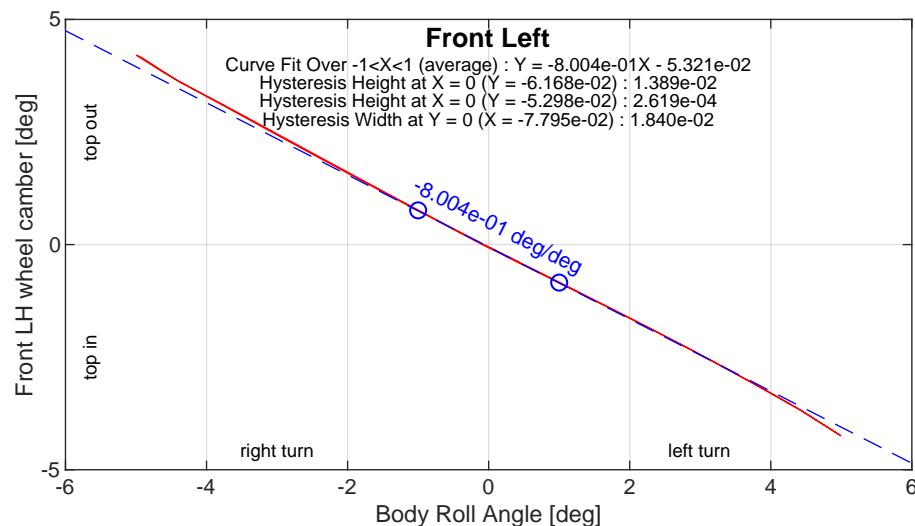
Roll Steer v Wheel to Body
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Roll Test at Constant Axle Load (brakes on) : Test #3 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



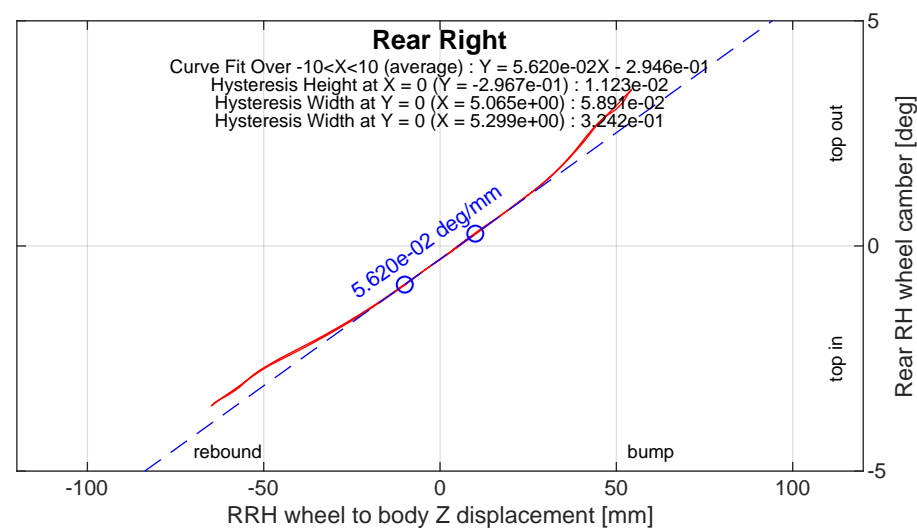
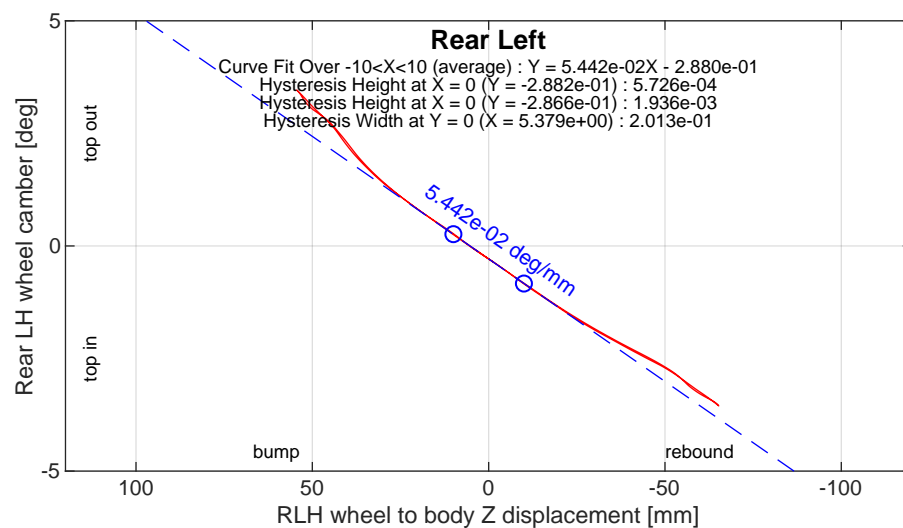
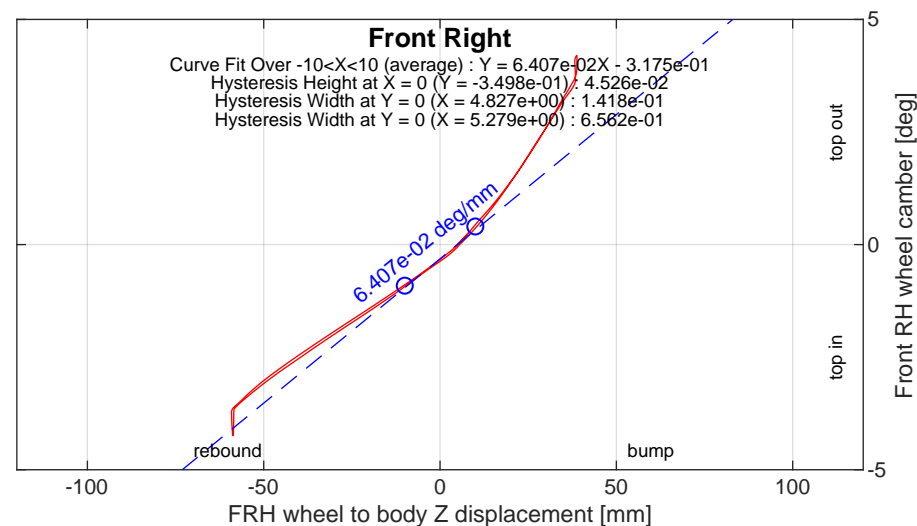
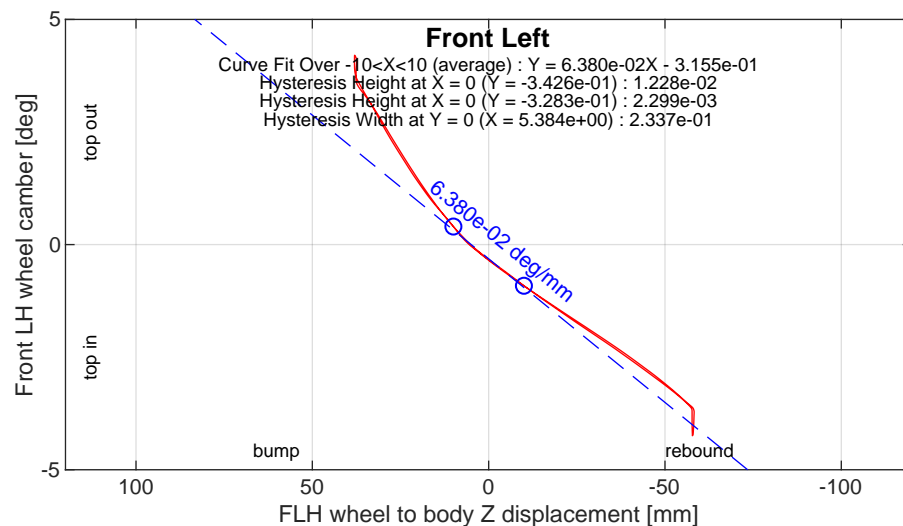
Roll
Audi Q5
Roll Camber v Roll Angle
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Roll Test at Constant Axle Load (brakes on) : Test #3 of 9
 Test Run #1, Cycle #2
 Input : Linear, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



Roll
Audi Q5

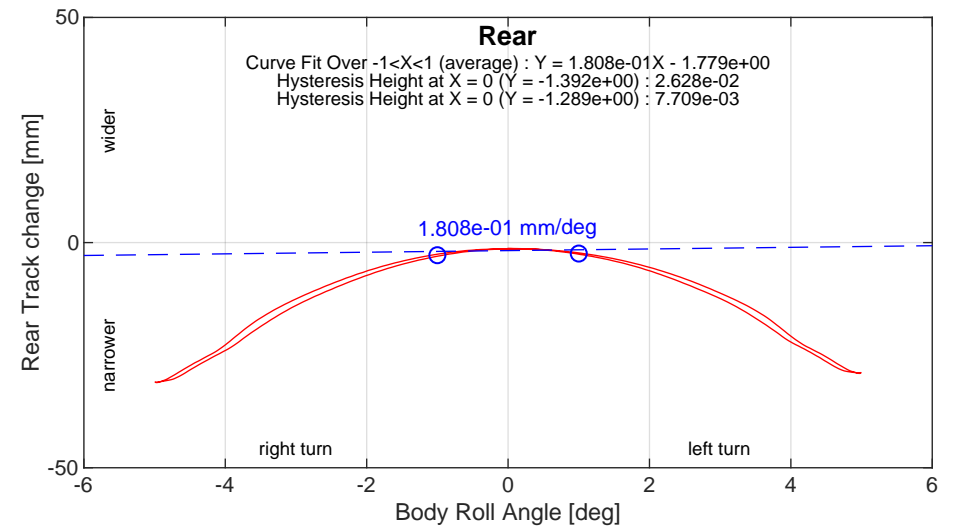
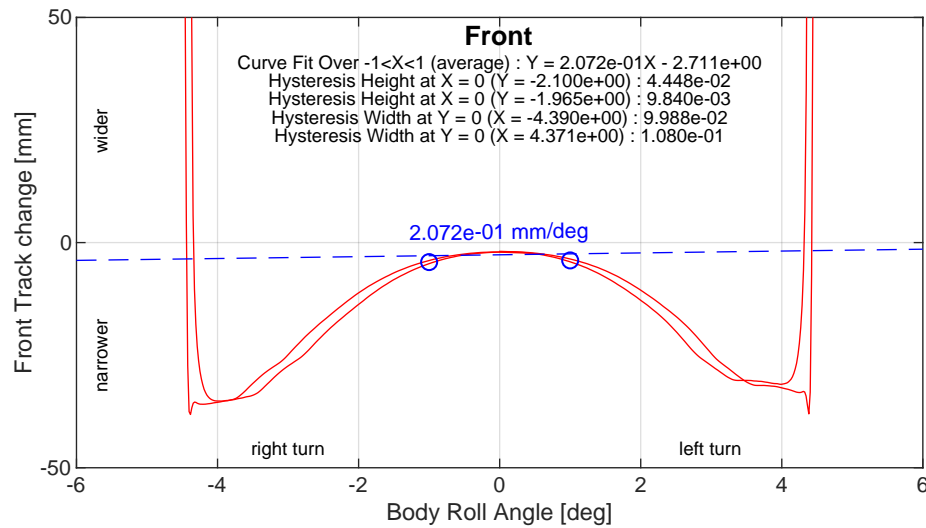
Roll Camber v Wheel to Body
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Roll Test at Constant Axle Load (brakes on) : Test #3 of 9
 Test Run #1, Cycle #2
 Input : Linear, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



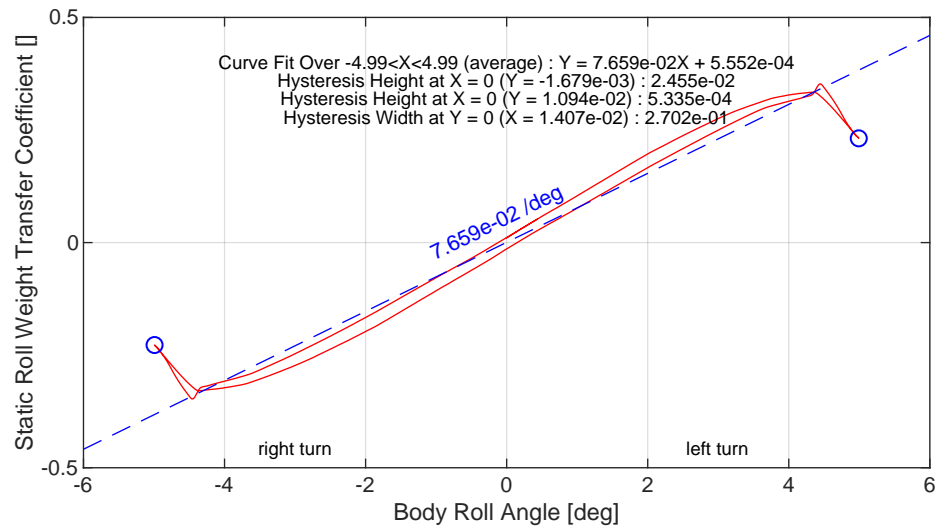
Roll
Audi Q5
Track Change
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Roll Test at Constant Axle Load (brakes on) : Test #3 of 9
 Test Run #1, Cycle #2
 Input : Linear, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



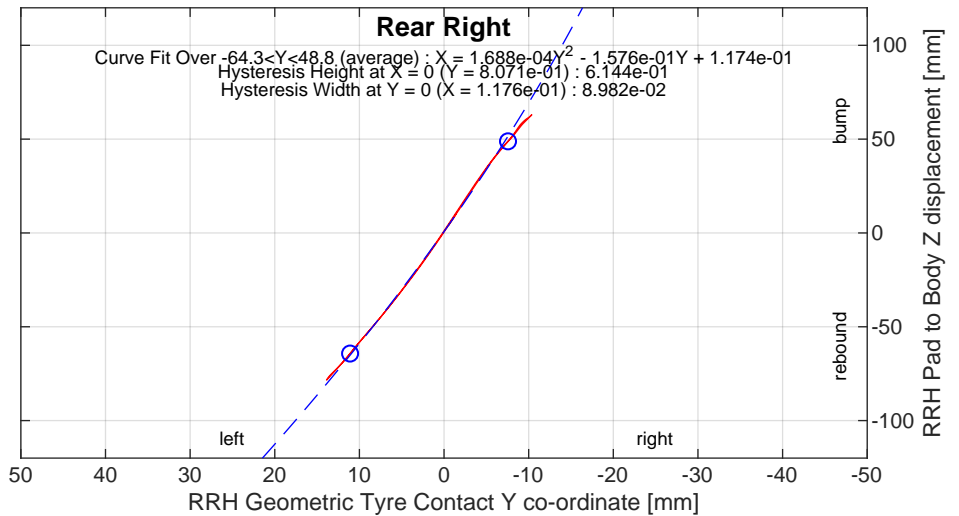
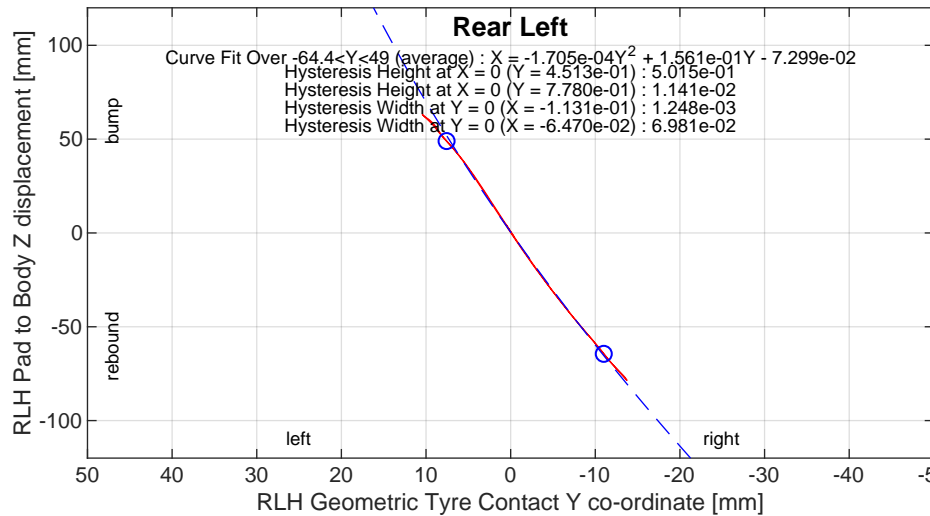
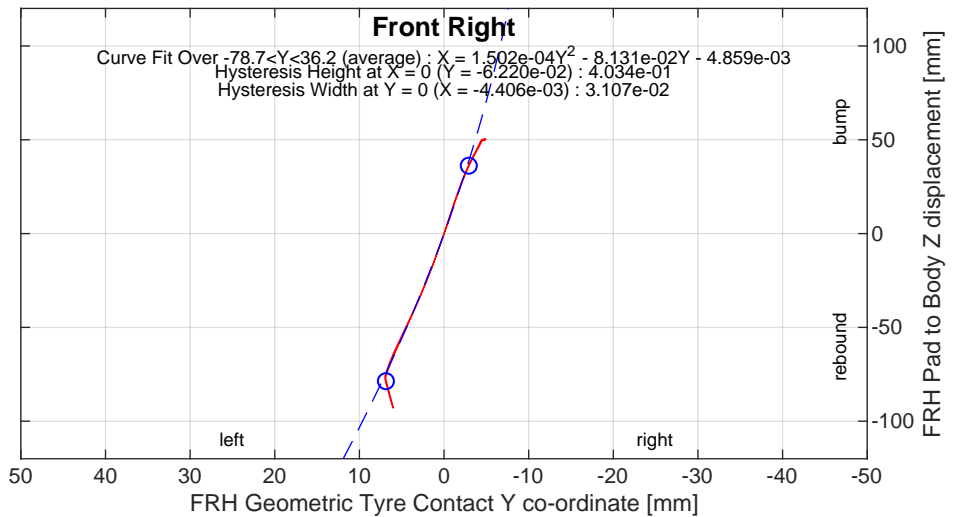
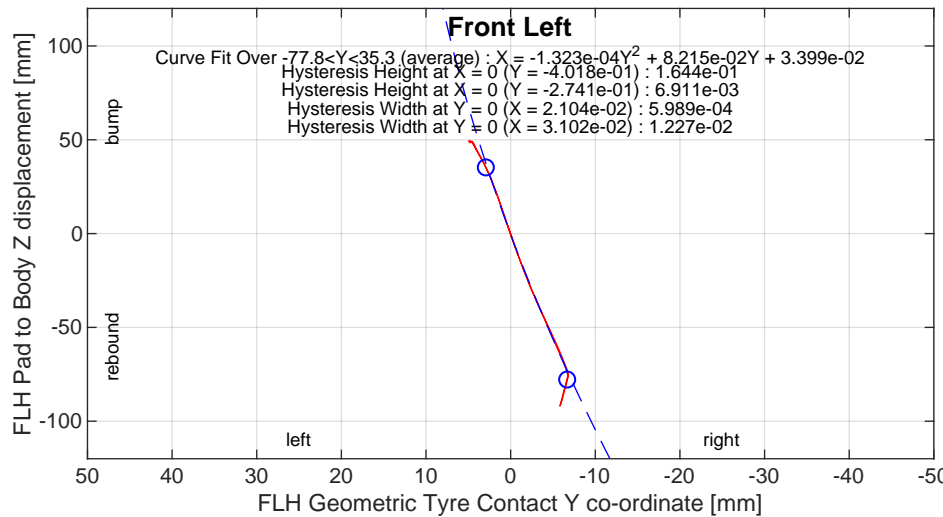
Roll
 Audi Q5
 Static Roll Weight Transfer Coefficient
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Roll Test at Constant Axle Load (brakes on) : Test #3 of 9
 Test Run #1, Cycle #2
 Input : Linear, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



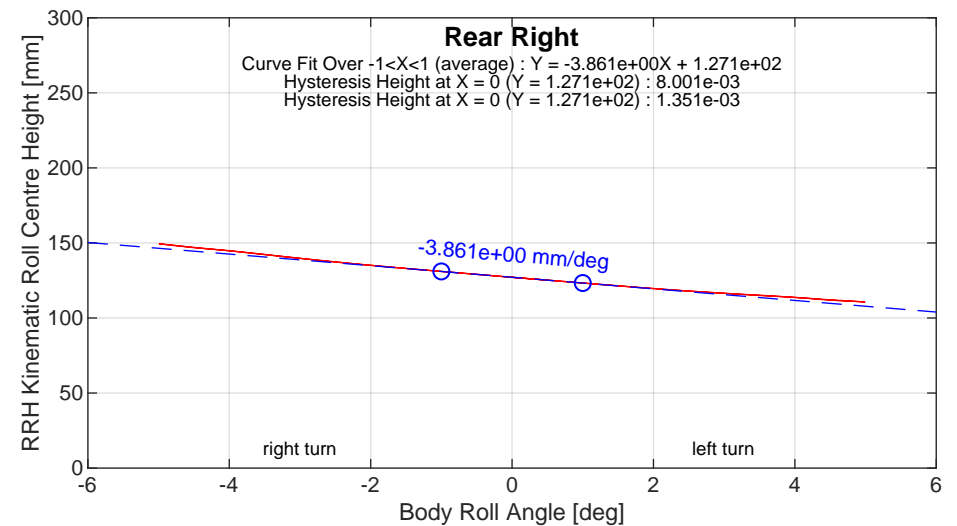
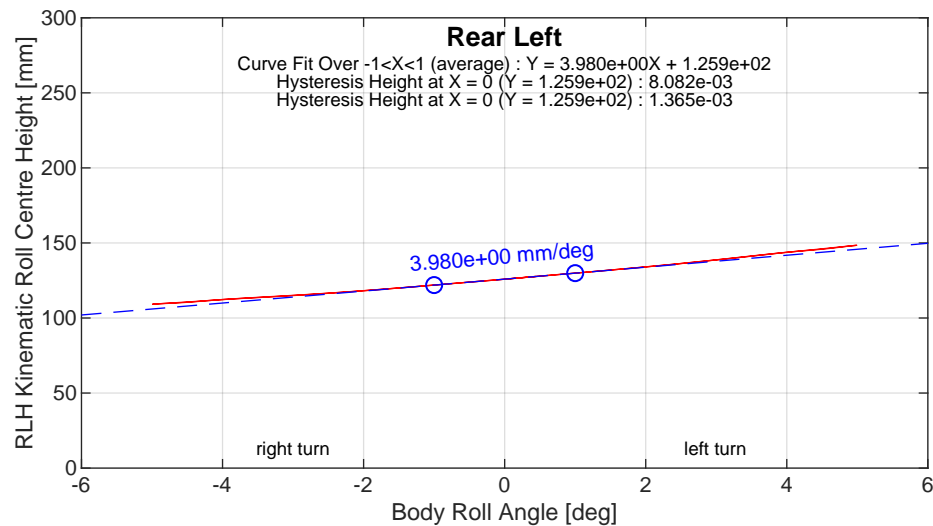
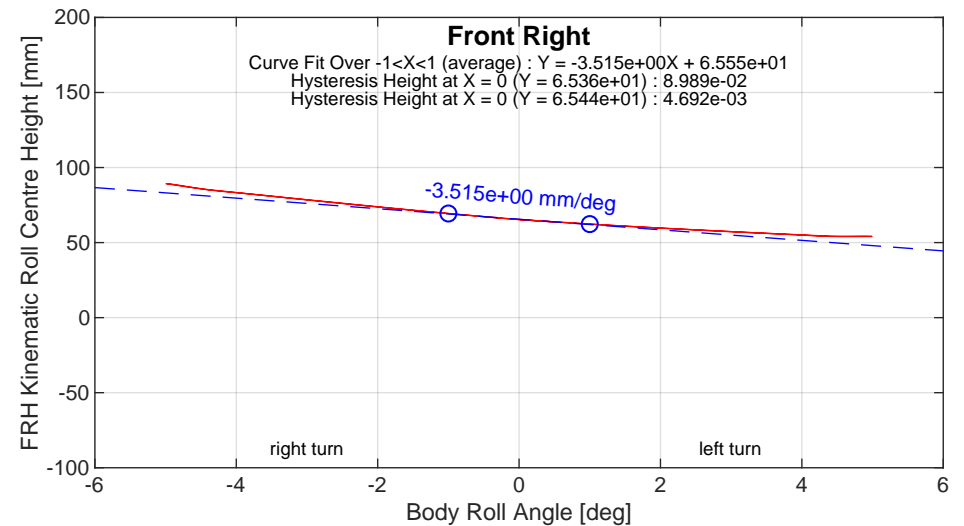
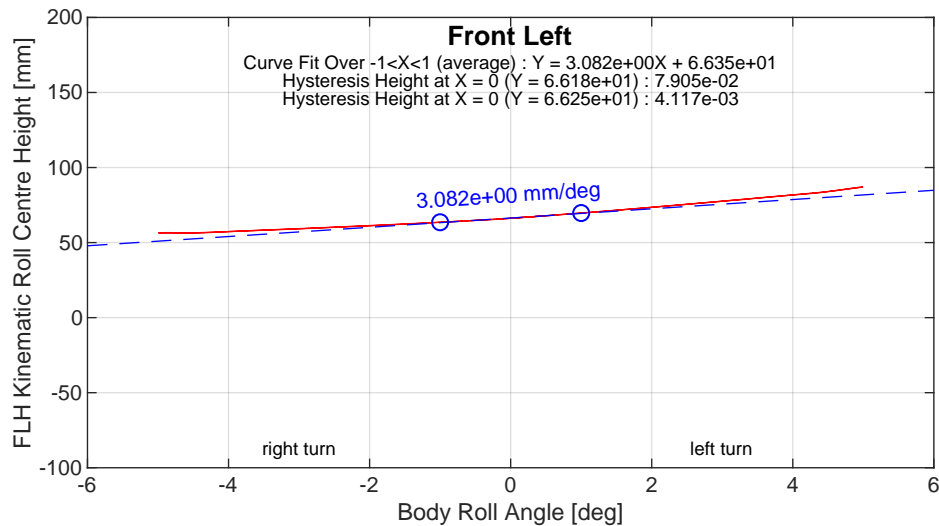
Roll
Audi Q5
Roll Centre Curve Fits
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Roll Test at Constant Axle Load (brakes on) : Test #3 of 9
 Test Run #1, Cycle #2
 Input : Linear, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



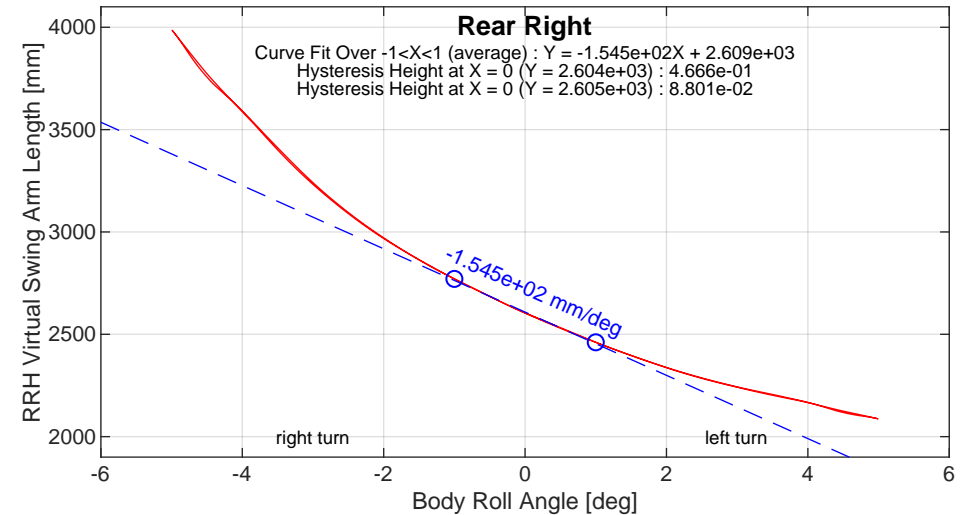
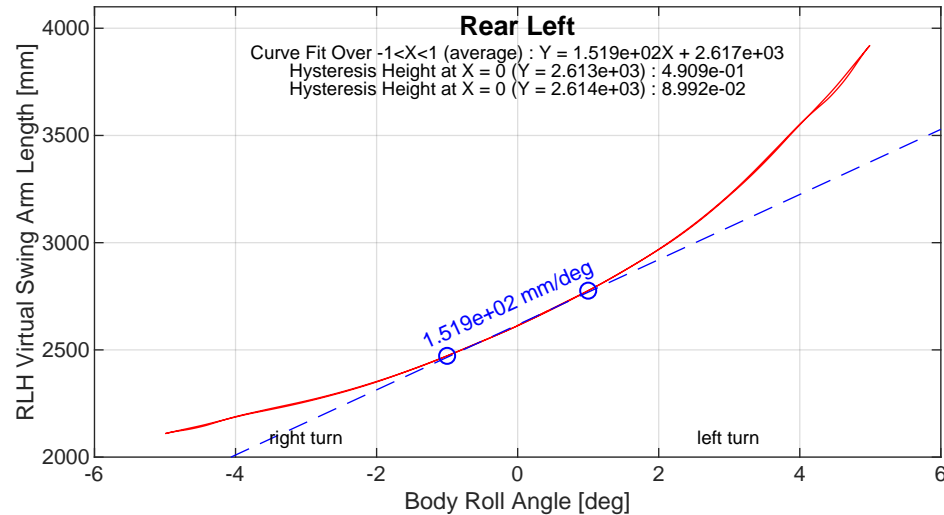
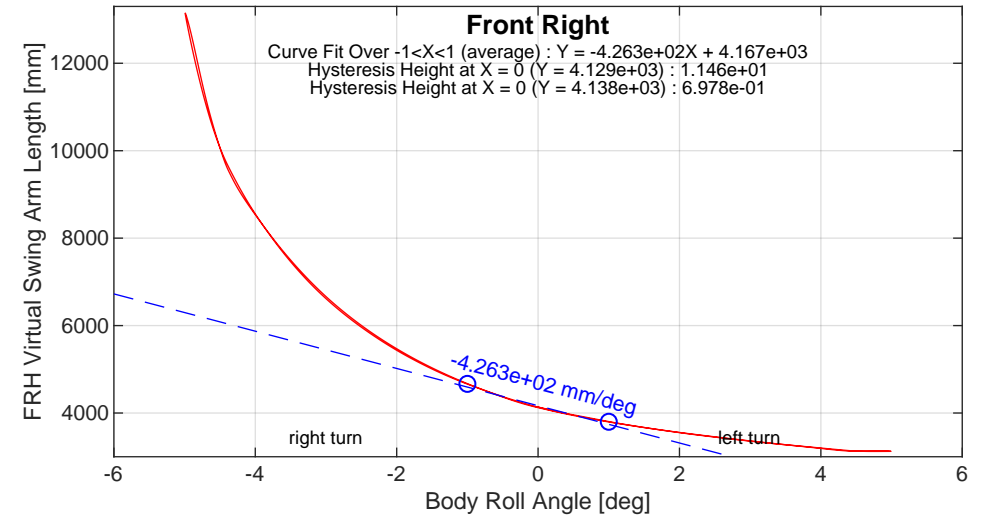
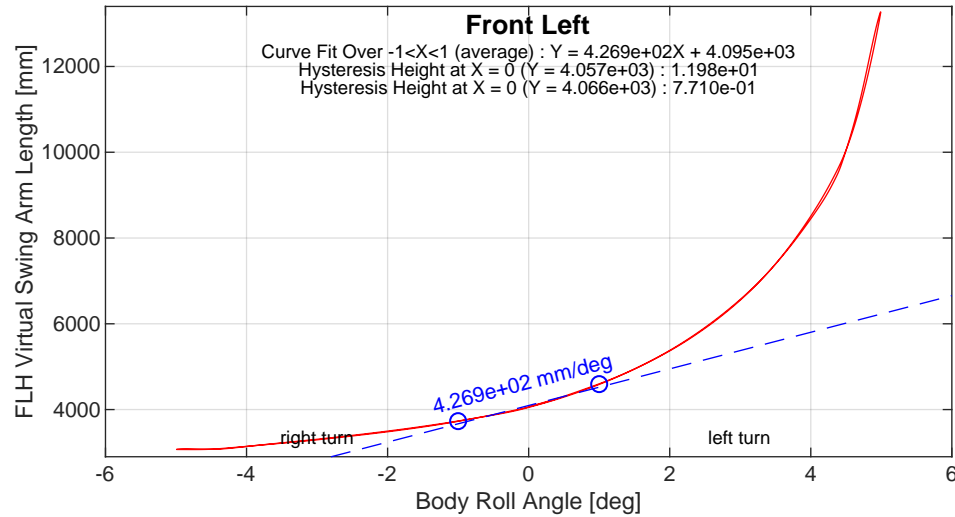
Roll
Audi Q5
Kinematic Roll Centre Height
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Roll Test at Constant Axle Load (brakes on) : Test #3 of 9
 Test Run #1, Cycle #2
 Input : Linear, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



Roll Audi Q5

Virtual Swing Arm Length

Co-ordinate system : ISO Ground-fixed

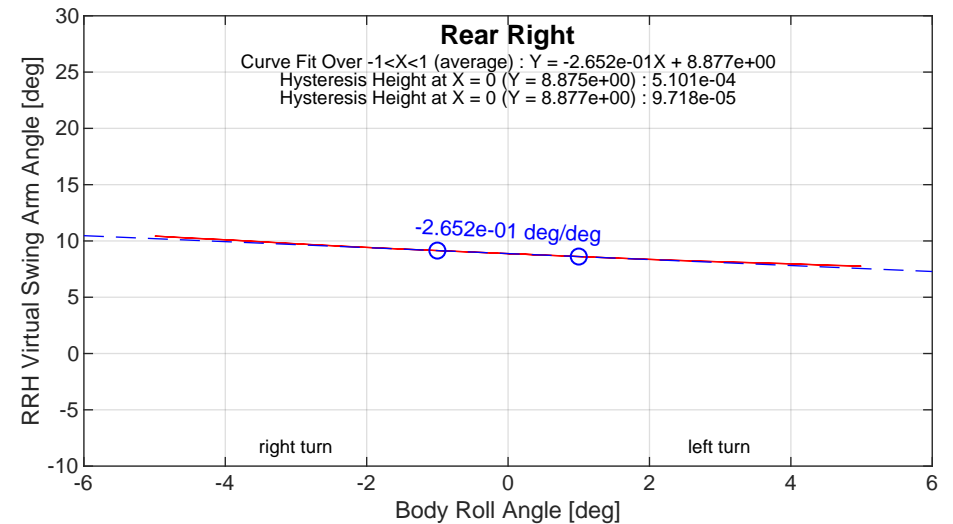
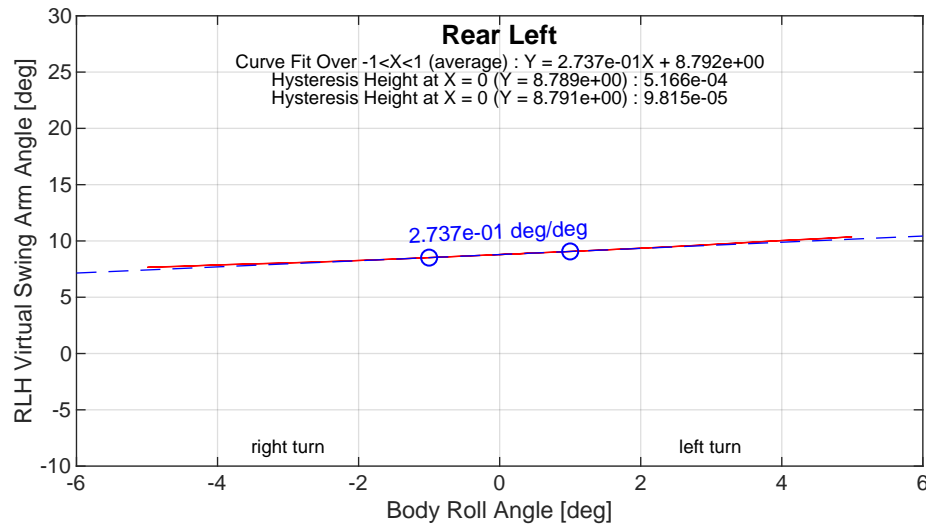
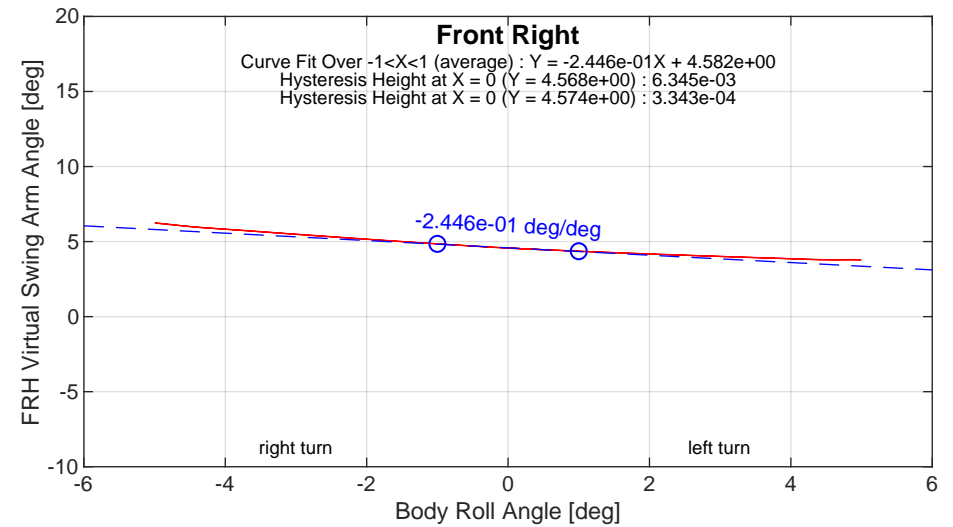
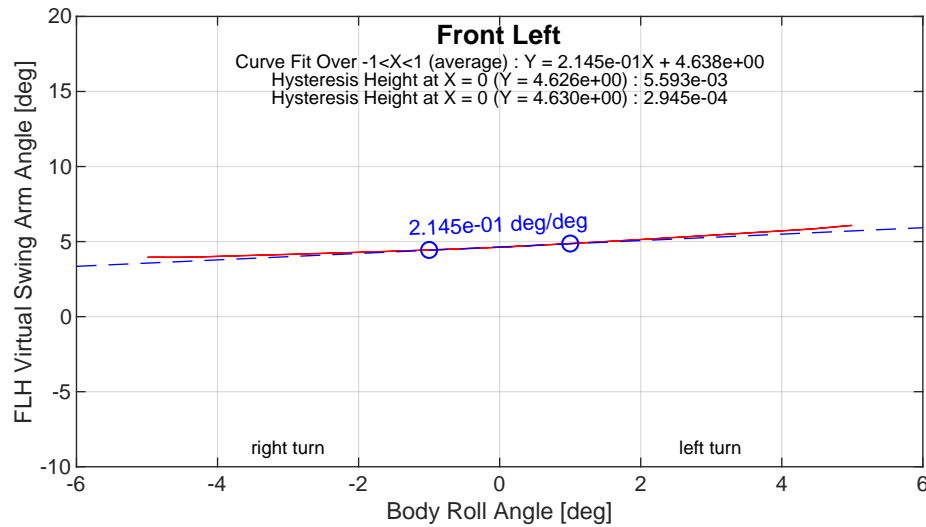
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Roll Test at Constant Axle Load (brakes on) : Test #3 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



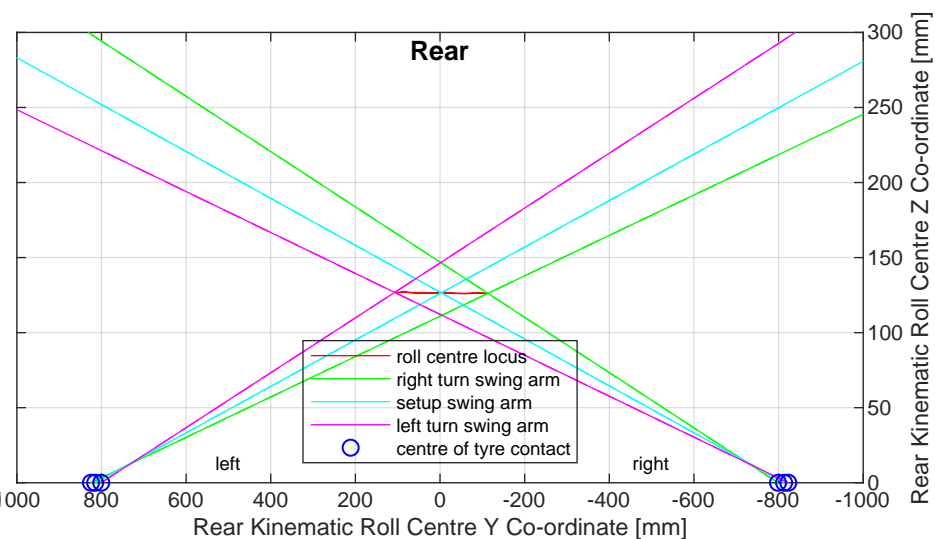
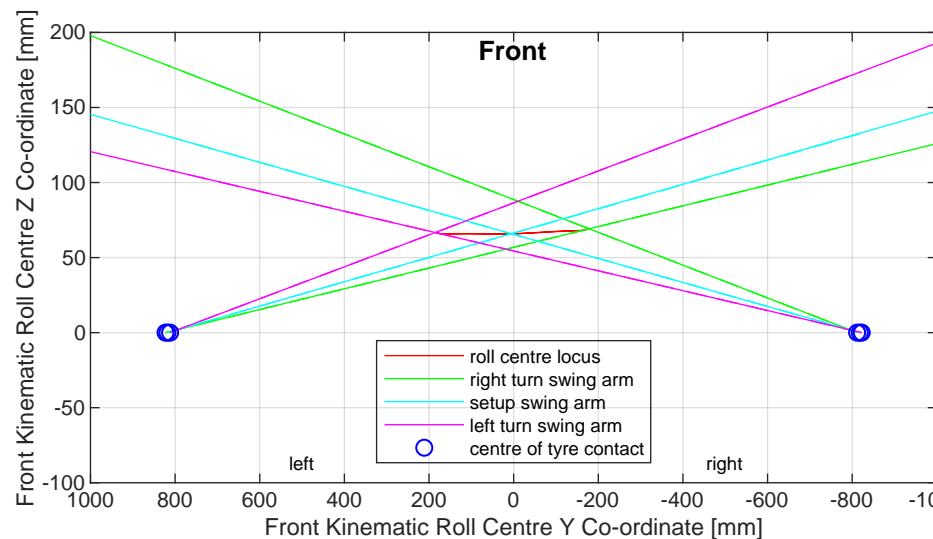
Roll
Audi Q5
Virtual Swing Arm Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Roll Test at Constant Axle Load (brakes on) : Test #3 of 9
Test Run #1, Cycle #2
Input : Linear, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Roll
Audi Q5
Kinematic Roll Centre Locus
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Roll Test at Constant Axle Load (brakes on) : Test #3 of 9
 Test Run #1, Cycle #2
 Input : Linear, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31

Plotted Curve Fit Coefficients

Roll Stiffnesses (F/R/V) [Nm/deg]:

-1.669e+03	-5.428e+00
-1.060e+03	-7.917e+00
-2.729e+03	-1.335e+01

Wheel Vertical Loads v Roll Angle (FL/FR/RL/RR) [N/deg]:

-1.034e+03	4.517e+03
1.034e+03	4.523e+03
-6.608e+02	4.804e+03
6.606e+02	4.814e+03

Wheel Vertical Rates (FL/FR/RL/RR) [N/mm]:

8.397e+01	4.179e+03
8.396e+01	4.185e+03
5.243e+01	4.596e+03
5.378e+01	4.600e+03

Roll Steer v Roll Angle (FL/FR/RL/RR) [deg/deg]:

-1.102e-02	-1.446e-02
5.399e-04	-3.287e-02
-4.881e-02	1.567e-02
5.084e-02	1.856e-02

Roll Steer v Wheel to Body (FL/FR/RL/RR) [deg/mm]:

7.378e-04	-1.813e-02
-1.930e-04	-3.307e-02
3.879e-03	2.268e-04
4.154e-03	2.122e-03

Roll Camber v Roll Angle (FL/FR/RL/RR) [deg/deg]:

-8.004e-01	-5.321e-02
8.030e-01	-5.431e-02
-6.827e-01	-7.219e-02
6.872e-01	-7.191e-02

Roll Camber v Wheel to Body (FL/FR/RL/RR) [deg/mm]:

6.380e-02	-3.155e-01
-----------	------------

6.407e-02	-3.175e-01
5.442e-02	-2.880e-01
5.620e-02	-2.946e-01

Track Change (F/R) [mm/deg]:

2.072e-01	-2.711e+00
1.808e-01	-1.779e+00

Static Roll Weight Transfer Coefficient (V) [/deg]:

7.659e-02	5.552e-04
-----------	-----------

Roll Centre Curve Fits (FL/FR/RL/RR) [mm/mm]:

-1.323e-04	8.215e-02	3.399e-02
1.502e-04	-8.131e-02	-4.859e-03
-1.705e-04	1.561e-01	-7.299e-02
1.688e-04	-1.576e-01	1.174e-01

Kinematic Roll Centre Height (FL/FR/RL/RR) [mm/deg]:

3.082e+00	6.635e+01
-3.515e+00	6.555e+01
3.980e+00	1.259e+02
-3.861e+00	1.271e+02

Virtual Swing Arm Length (FL/FR/RL/RR) [mm/deg]:

4.269e+02	4.095e+03
-4.263e+02	4.167e+03
1.519e+02	2.617e+03
-1.545e+02	2.609e+03

Virtual Swing Arm Angle (FL/FR/RL/RR) [deg/deg]:

2.145e-01	4.638e+00
-2.446e-01	4.582e+00
2.737e-01	8.792e+00
-2.652e-01	8.877e+00

Calculated Parameters

Roll Stiffnesses (F/R/V) [Nm/deg]:

-1.665e+03

-1.059e+03

-2.724e+03

Roll Moment Distribution (F/R) [%]:

6.112e+01

3.888e+01

Kinematic Roll Centre Heights (FL/FR/RL/RR) [mm]:

6.625e+01

6.544e+01

1.259e+02

1.271e+02

Virtual Swing Arm Lengths (FL/FR/RL/RR) [mm]:

4.066e+03

4.138e+03

2.614e+03

2.605e+03

Virtual Swing Arm Angles (FL/FR/RL/RR) [deg]:

4.630e+00

4.574e+00

8.791e+00

8.877e+00

Kinematic Roll Center Height (F/R) [mm]:

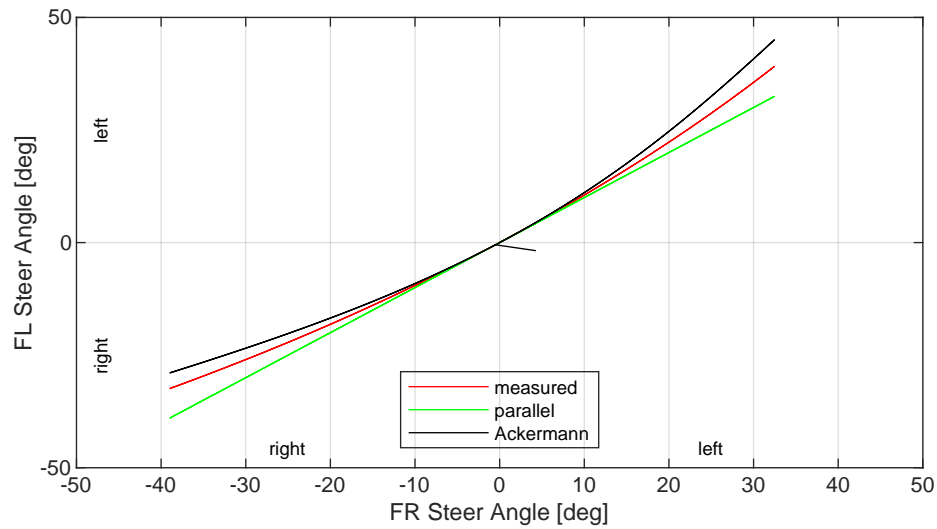
6.584e+01

1.265e+02

Kinematic Roll Center Lateral Offset (F/R) [mm]:

5.164e+00

-3.074e+00



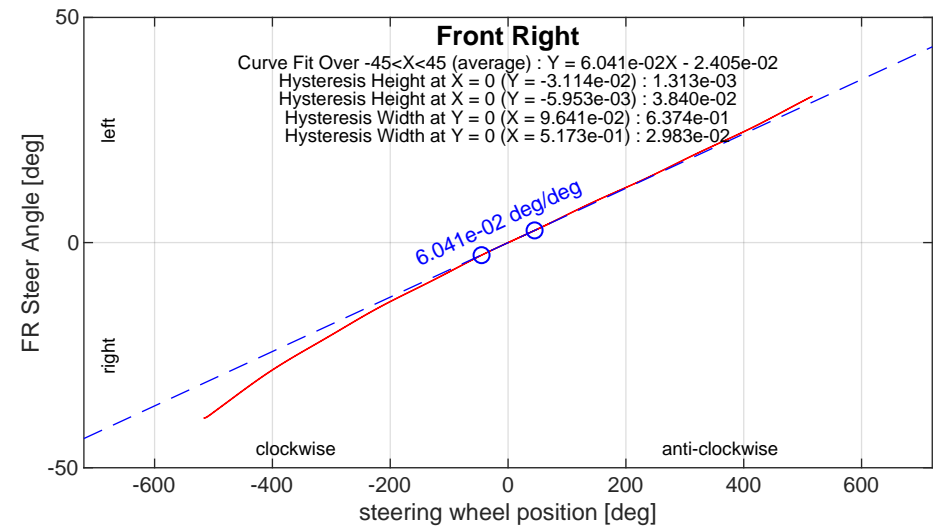
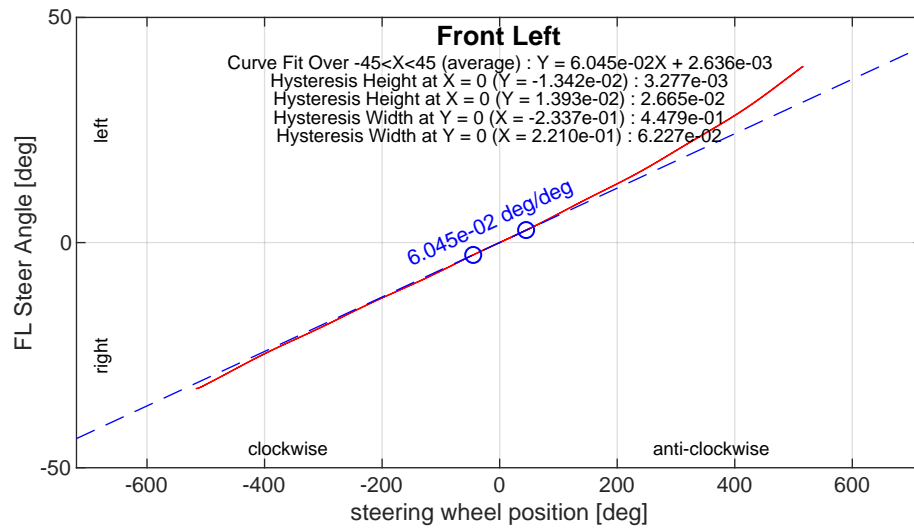
Steer
Audi Q5
Ackermann Curves
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Steering Geometry test : Test #4 of 9
 Test Run #1, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



Steer Audi Q5 Steering Ratio

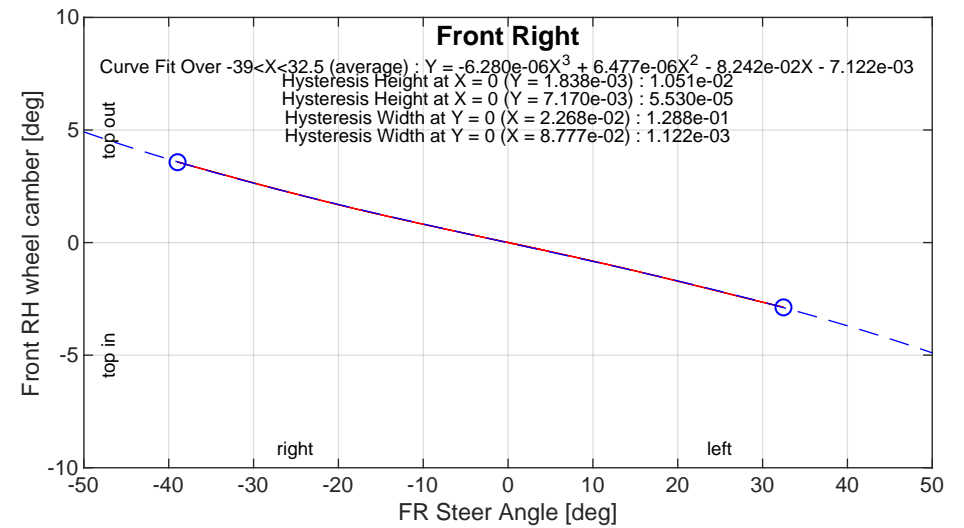
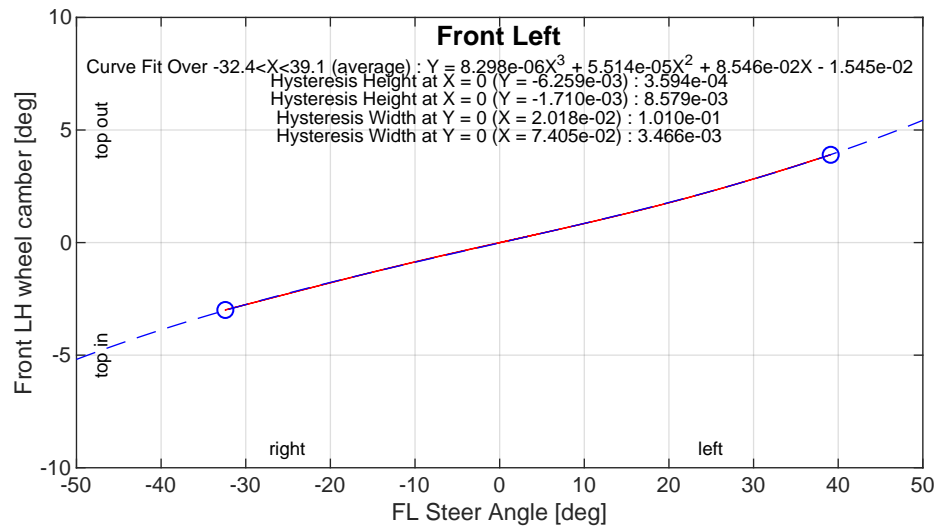
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Steering Geometry test : Test #4 of 9
 Test Run #1, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



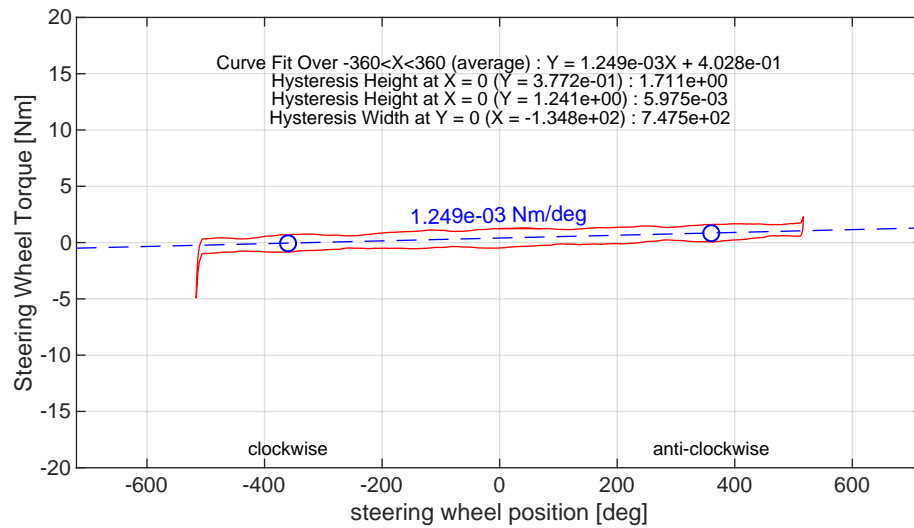
Steer
Audi Q5
Camber Angle v Roadwheel Steer
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Steering Geometry test : Test #4 of 9
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



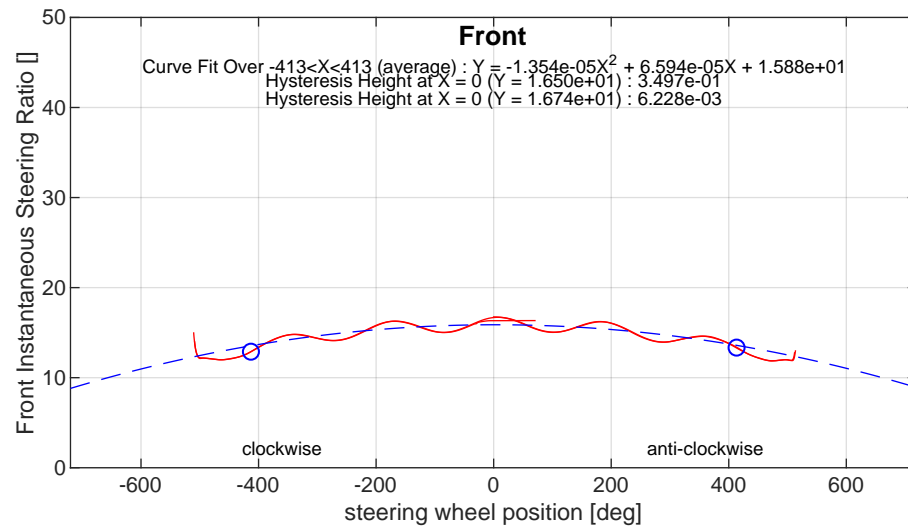
Steer
Audi Q5
Handwheel Torque v Handwheel Steer
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Steering Geometry test : Test #4 of 9
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



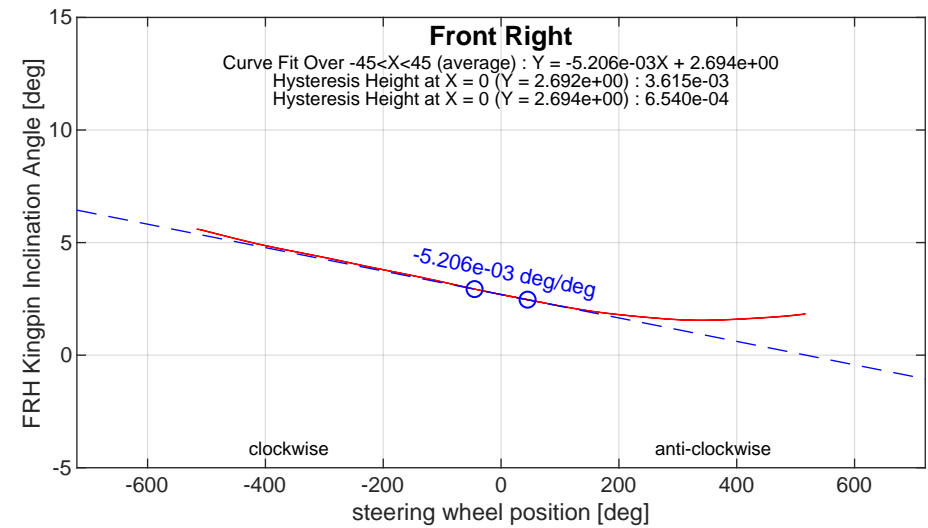
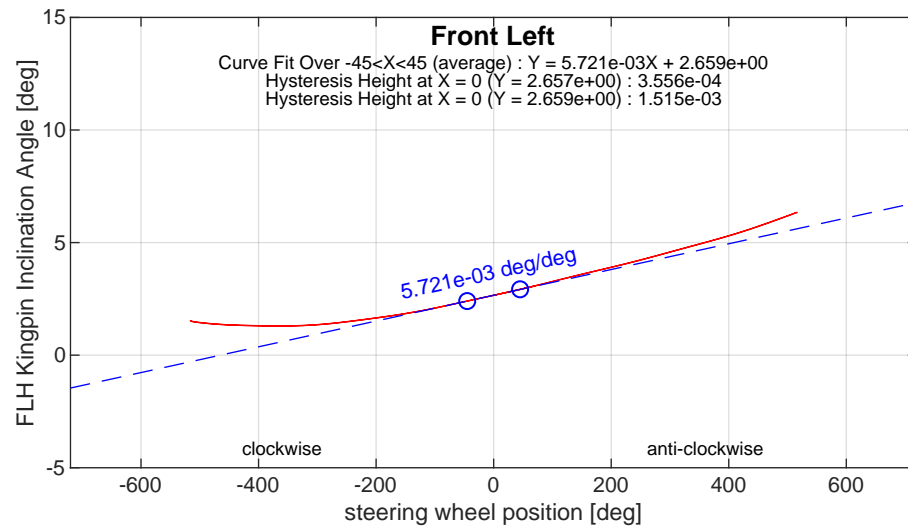
Steer
Audi Q5
Instantaneous Steering Ratio
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Steering Geometry test : Test #4 of 9
 Test Run #1, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



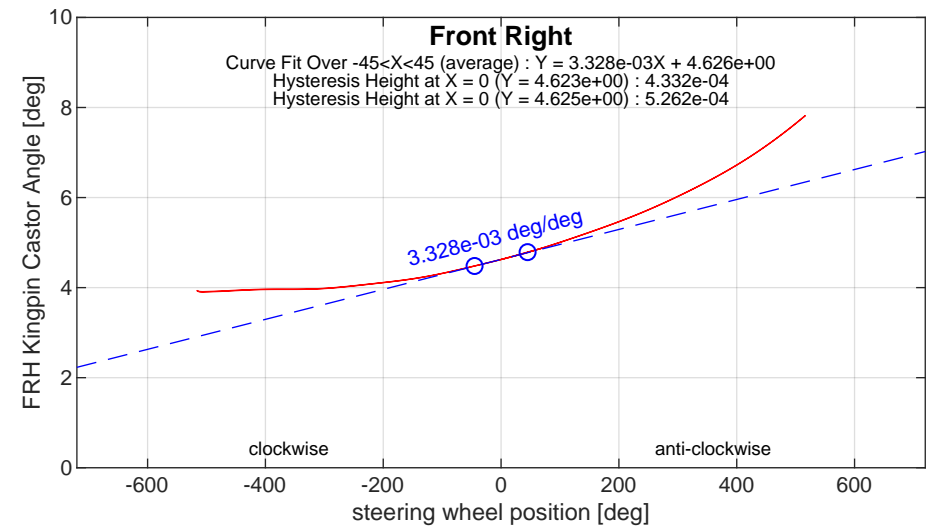
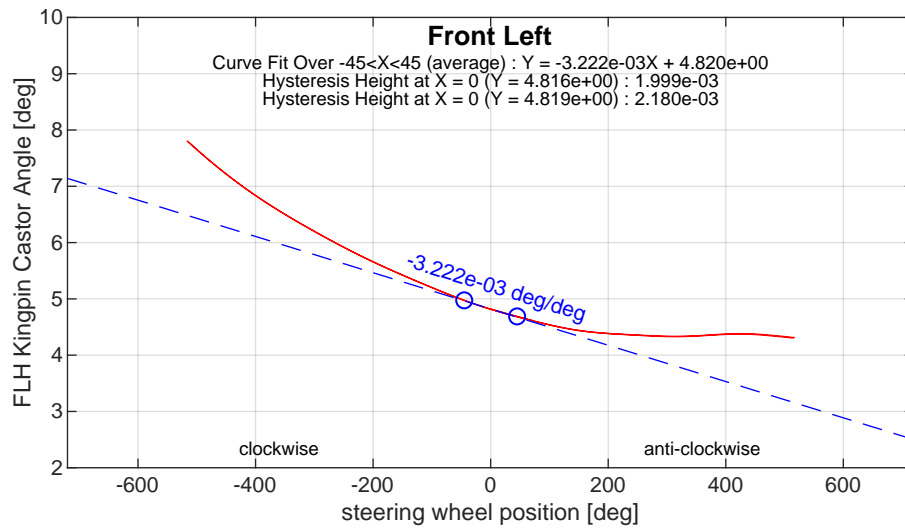
Steer
Audi Q5
Kingpin Inclination Angle v Handwheel Steer
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Steering Geometry test : Test #4 of 9
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



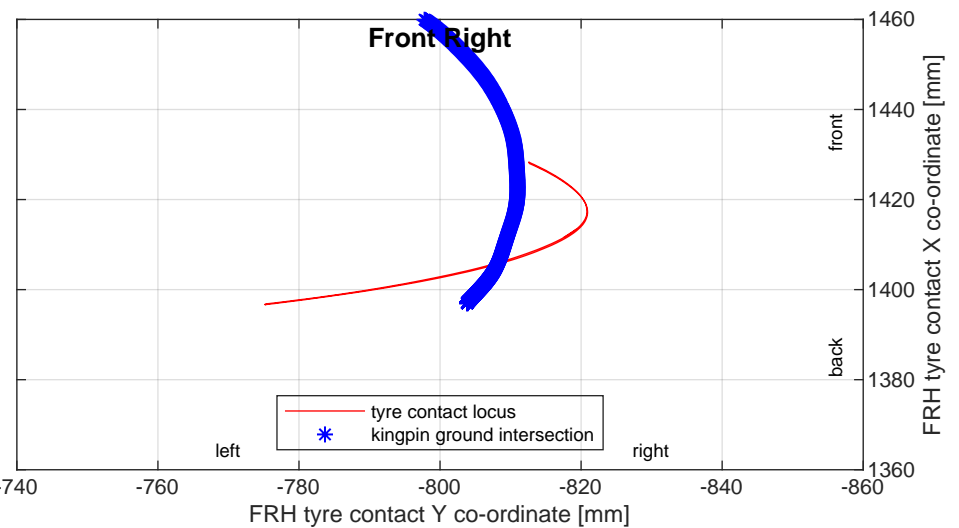
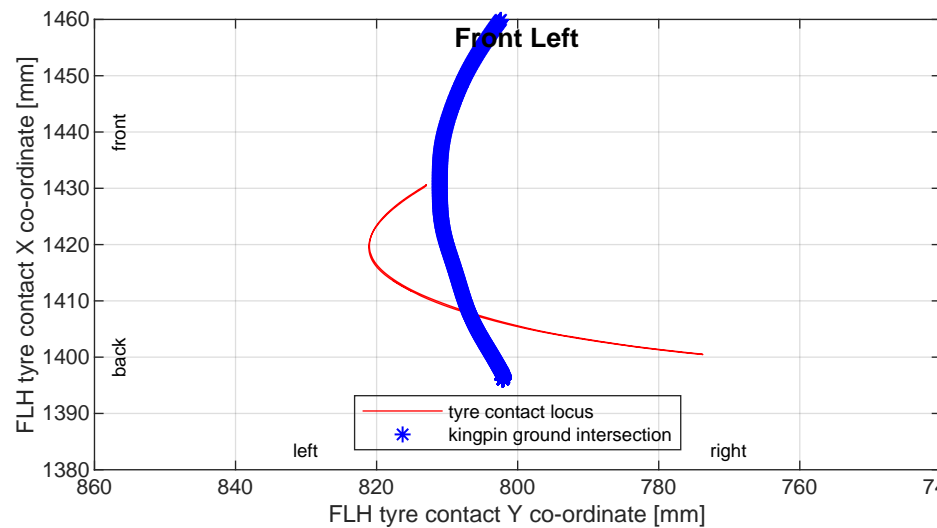
Steer
Audi Q5
Kingpin Castor Angle v Handwheel Steer
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Steering Geometry test : Test #4 of 9
 Test Run #1, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



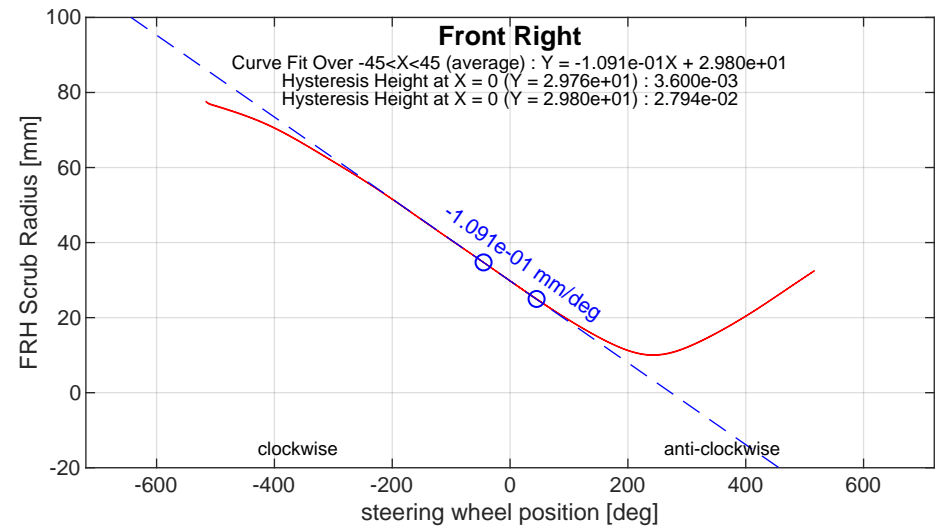
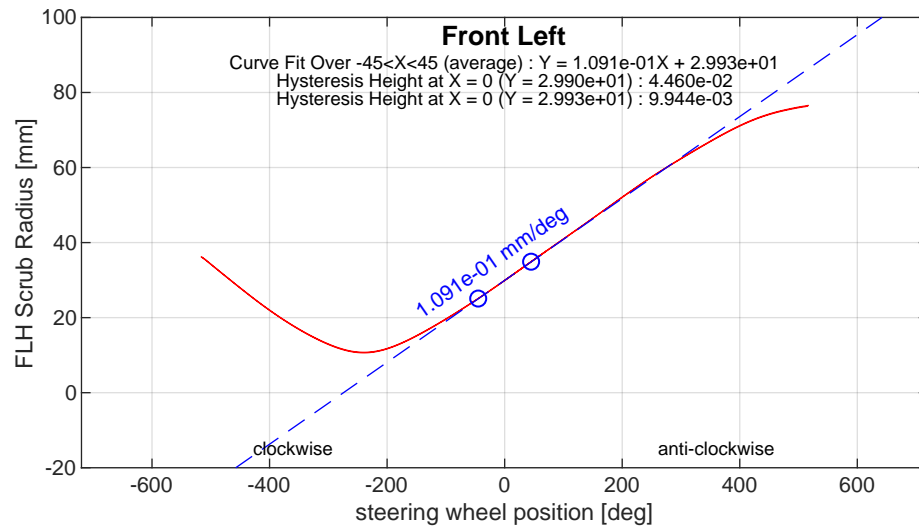
Steer
Audi Q5
Centre of Tyre Contact Locus
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Steering Geometry test : Test #4 of 9
 Test Run #1, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



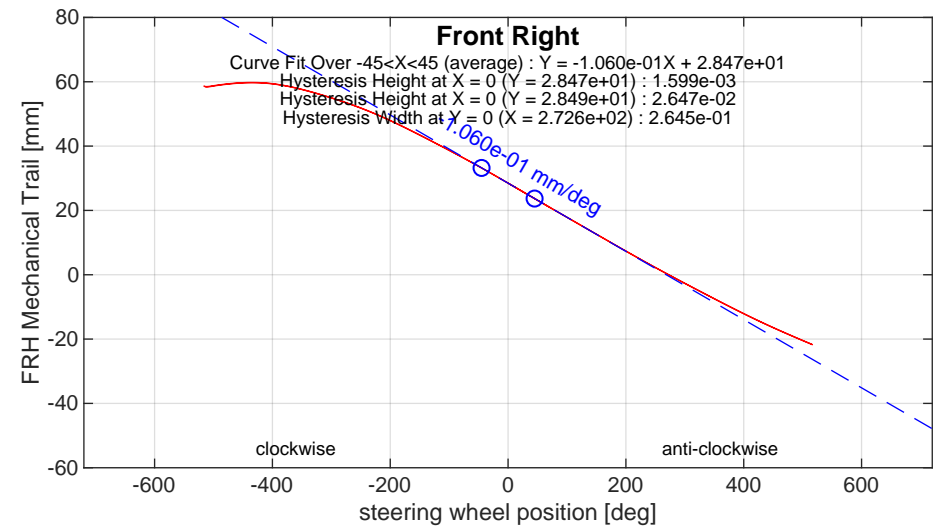
Steer
Audi Q5
Scrub Radius v Handwheel Steer
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Steering Geometry test : Test #4 of 9
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



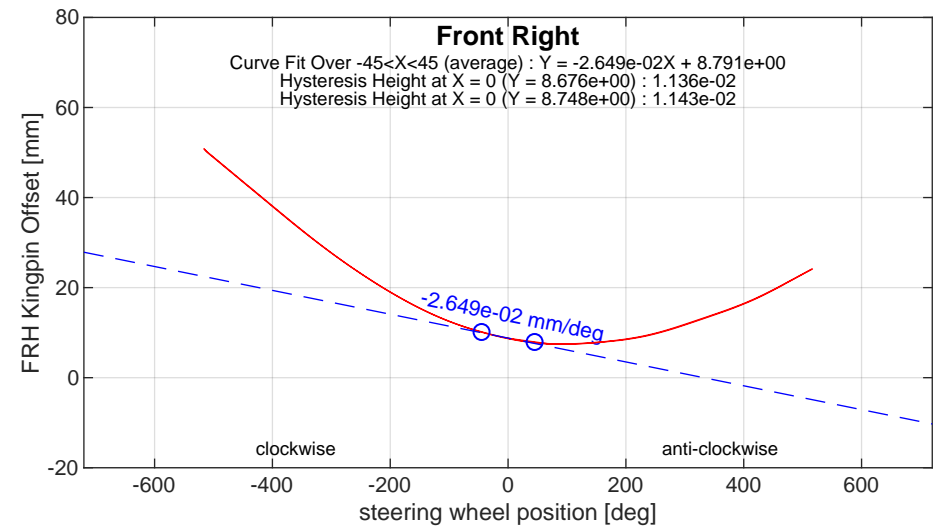
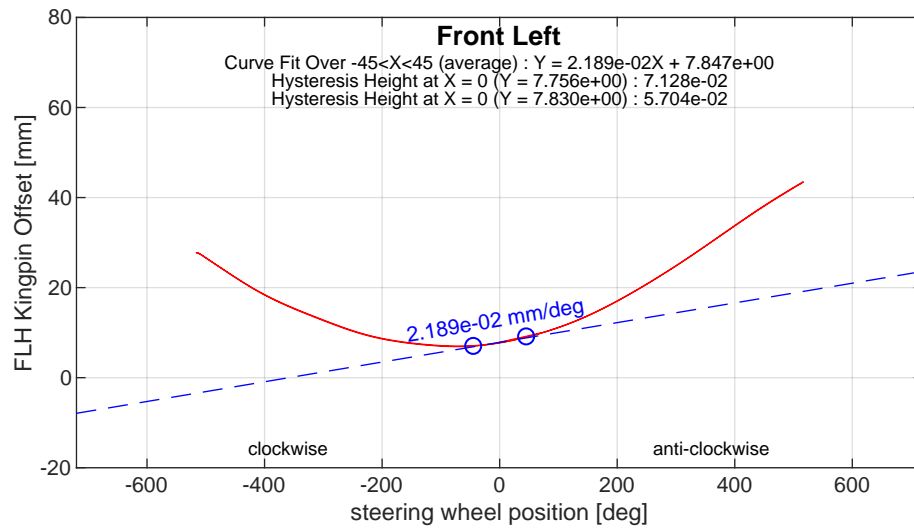
Steer
Audi Q5
Mechanical Trail v Handwheel Steer
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Steering Geometry test : Test #4 of 9
 Test Run #1, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



Steer
Audi Q5
Kingpin Offset v Handwheel Steer
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Steering Geometry test : Test #4 of 9
 Test Run #1, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31

Plotted Curve Fit Coefficients

Steering Ratio (FL/FR/RL/RR) [deg/deg]:

6.045e-02 2.636e-03

6.041e-02 -2.405e-02

None

None

Camber Angle v Roadwheel Steer (FL/FR/RL/RR) [deg/deg]:

8.298e-06 5.514e-05 8.546e-02 -1.545e-02

-6.280e-06 6.477e-06 -8.242e-02 -7.122e-03

None

None

Handwheel Torque v Handwheel Steer (S) [Nm/deg]:

1.249e-03 4.028e-01

Instantaneous Steering Ratio (F/R) [/deg]:

-1.354e-05 6.594e-05 1.588e+01

None

Kingpin Inclination Angle v Handwheel Steer (FL/FR/RL/RR) [deg/deg]:

5.721e-03 2.659e+00

-5.206e-03 2.694e+00

None

None

Kingpin Castor Angle v Handwheel Steer (FL/FR/RL/RR) [deg/deg]:

-3.222e-03 4.820e+00

3.328e-03 4.626e+00

None

None

Scrub Radius v Handwheel Steer (FL/FR/RL/RR) [mm/deg]:

1.091e-01 2.993e+01

-1.091e-01 2.980e+01

None

None

Mechanical Trail v Handwheel Steer (FL/FR/RL/RR) [mm/deg]:

1.072e-01	2.888e+01
-1.060e-01	2.847e+01
None	
None	

Kingpin Offset v Handwheel Steer (FL/FR/RL/RR) [mm/deg]:

2.189e-02	7.847e+00
-2.649e-02	8.791e+00
None	
None	

Calculated Parameters

Number of Handwheel Turns Lock to Lock (S) []:

2.869e+00

Front Steer Angle Difference at 30 deg Outside Wheel (LT/RT) [deg]:

5.557e+00

5.493e+00

Kingpin Inclination Angle (FL/FR) [deg]:

2.660e+00

2.693e+00

Kingpin Castor Angle (FL/FR) [deg]:

4.818e+00

4.626e+00

Kingpin Ground Intersection X Position (FL/FR) [mm]:

1.443e+03

1.440e+03

Kingpin Ground Intersection Y Position (FL/FR) [mm]:

8.098e+02

-8.089e+02

Scrub Radius (FL/FR) [mm]:

2.995e+01

2.978e+01

Mechanical Trail (FL/FR) [mm]:

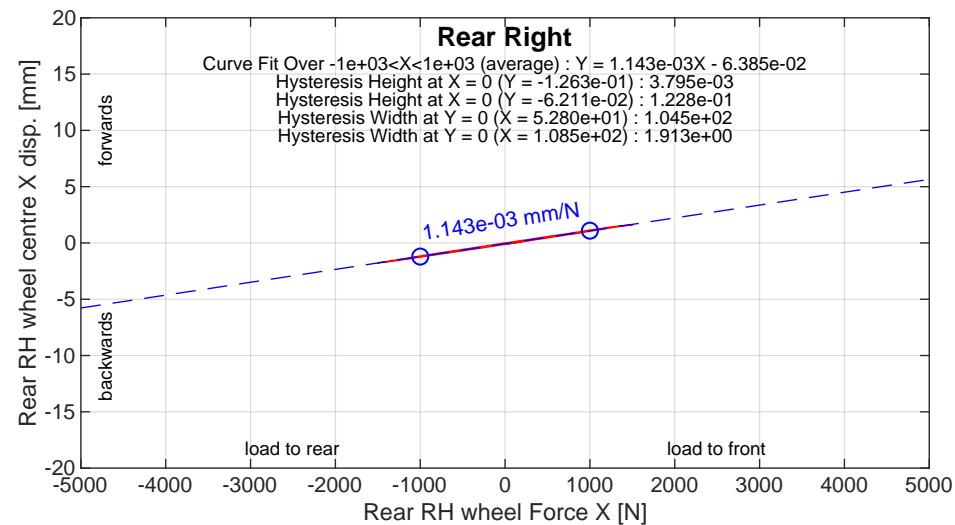
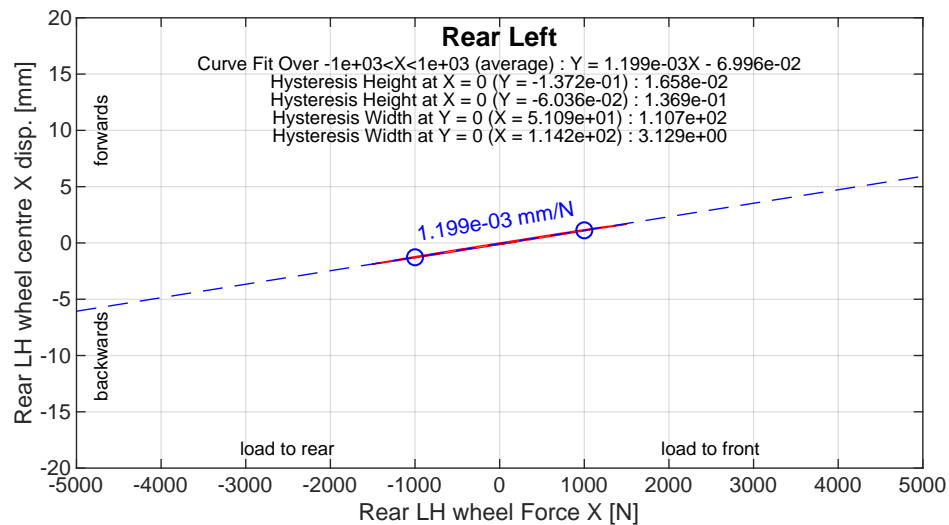
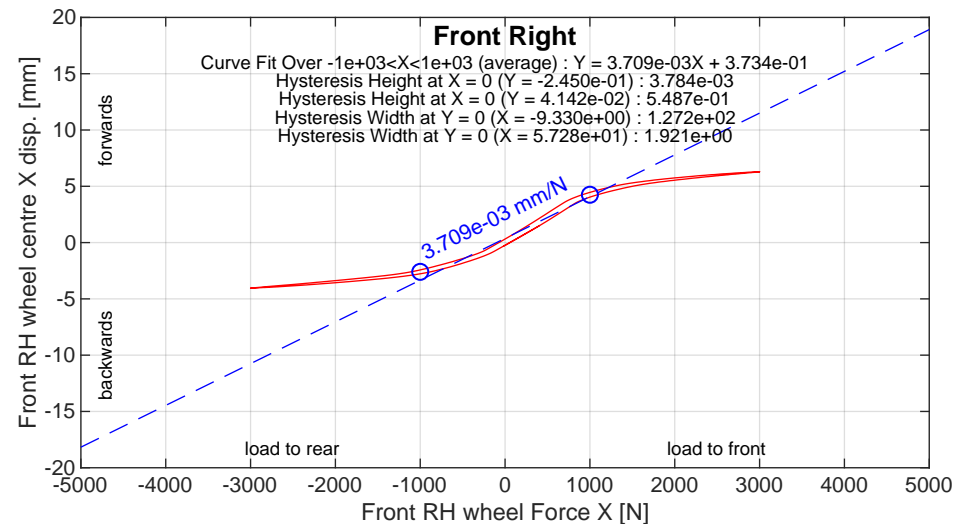
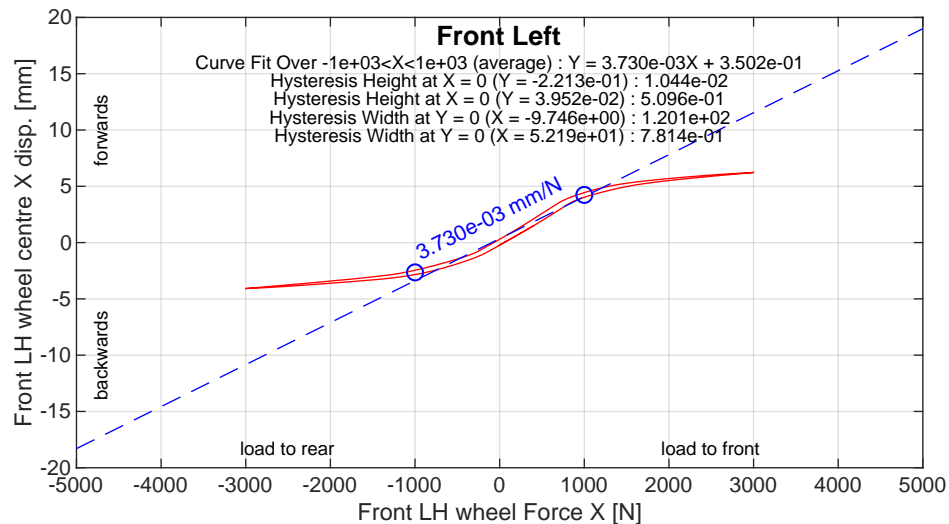
2.891e+01

2.847e+01

Kingpin Offset (FL/FR) [mm]:

7.835e+00

8.745e+00



Longitudinal Compliance

Audi Q5

Longitudinal Wheel Centre Compliance

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 4 : Standard K&C test - Validation

Longitudinal Compliance at 0mm Y offset : Test #5 of 9

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

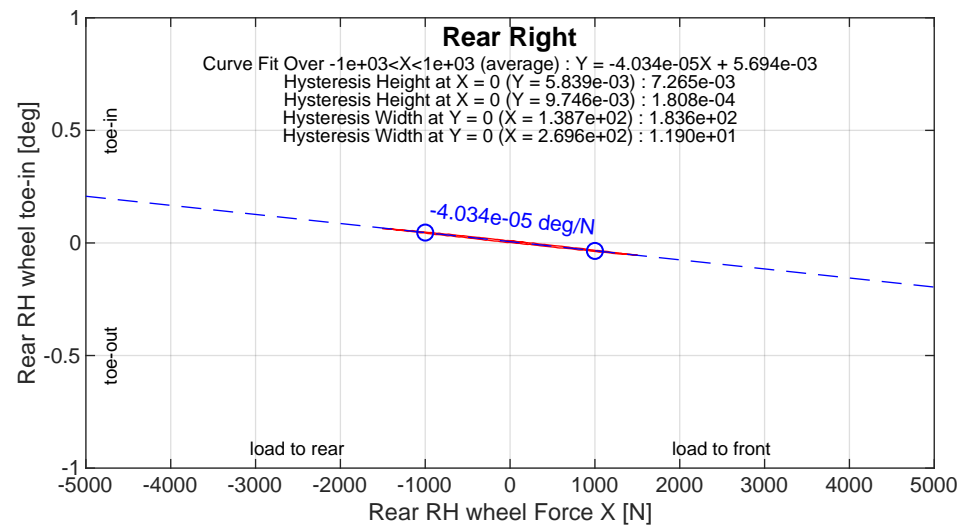
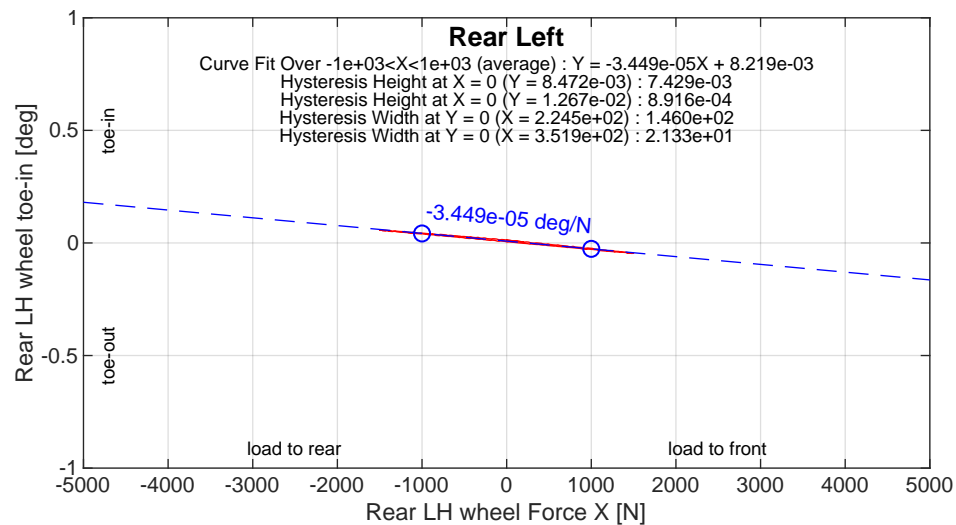
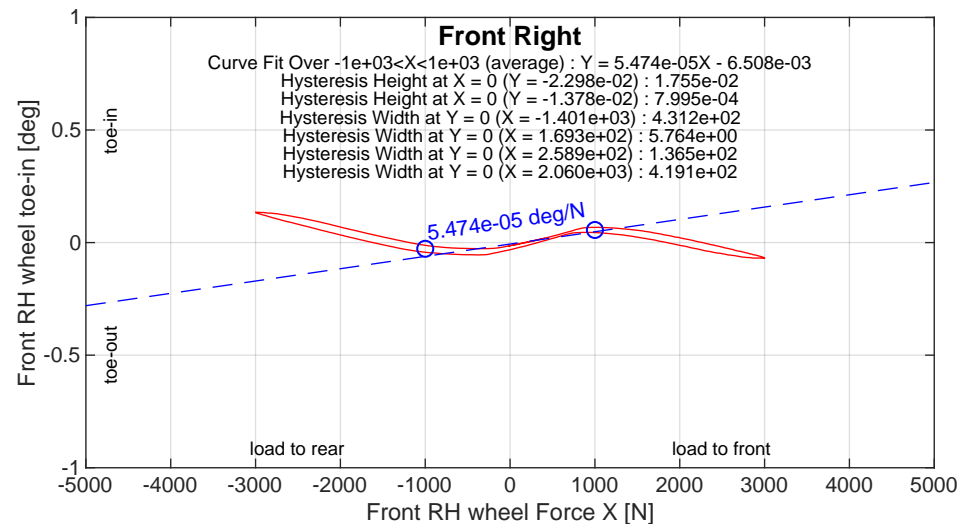
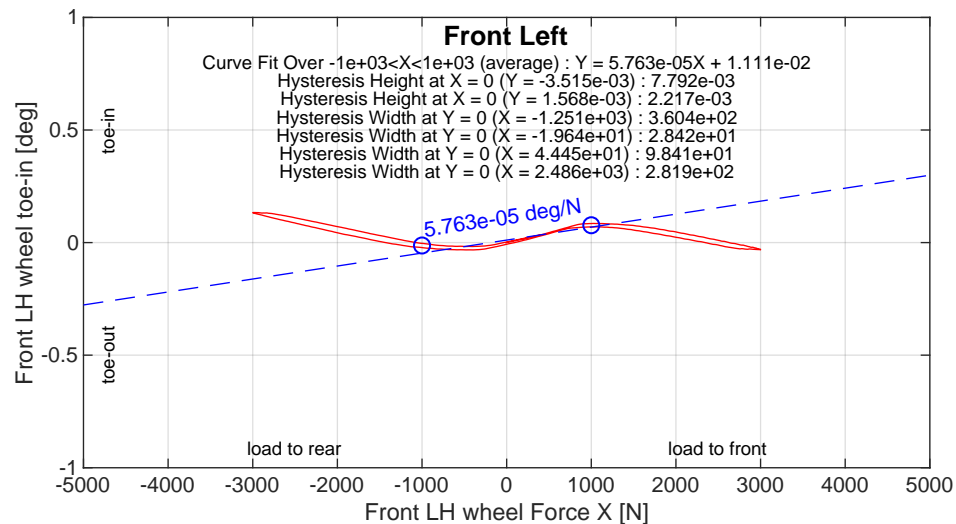
Engine On : Yes

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



Longitudinal Compliance

Audi Q5

Longitudinal Toe Compliance

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 4 : Standard K&C test - Validation

Longitudinal Compliance at 0mm Y offset : Test #5 of 9

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

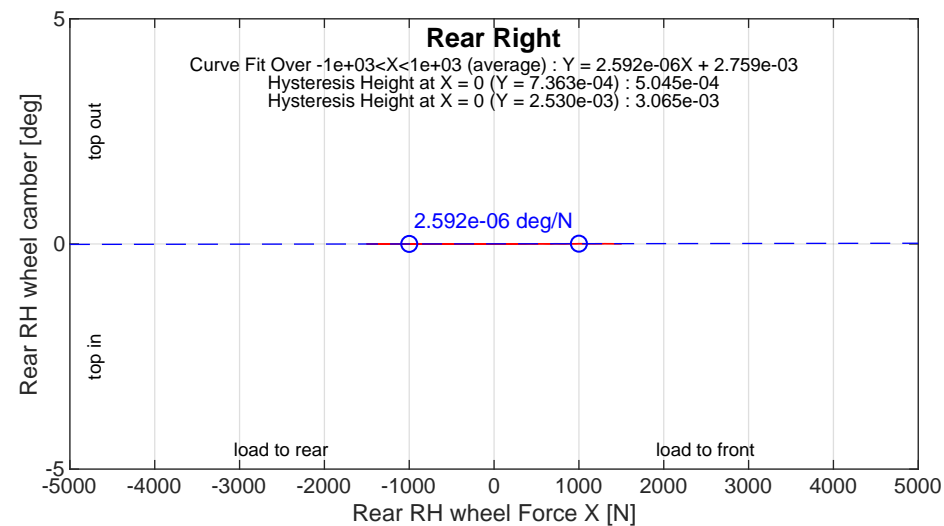
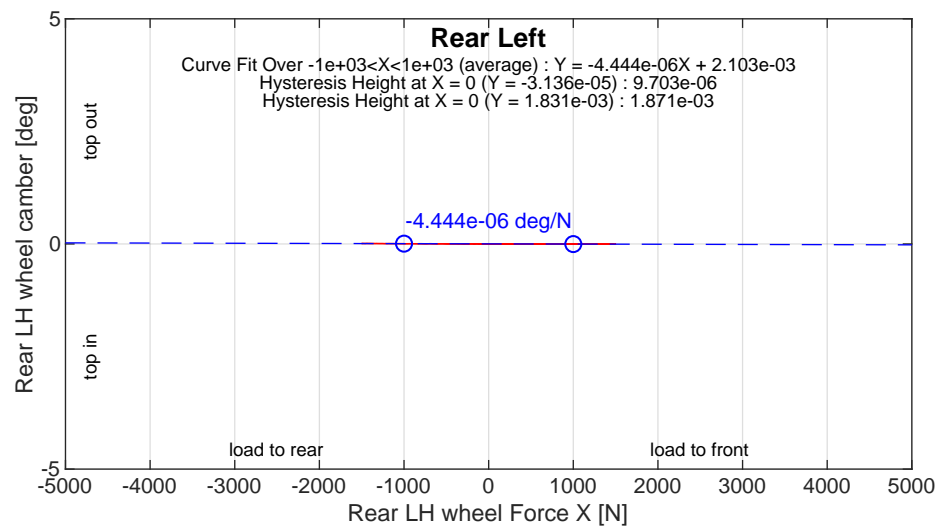
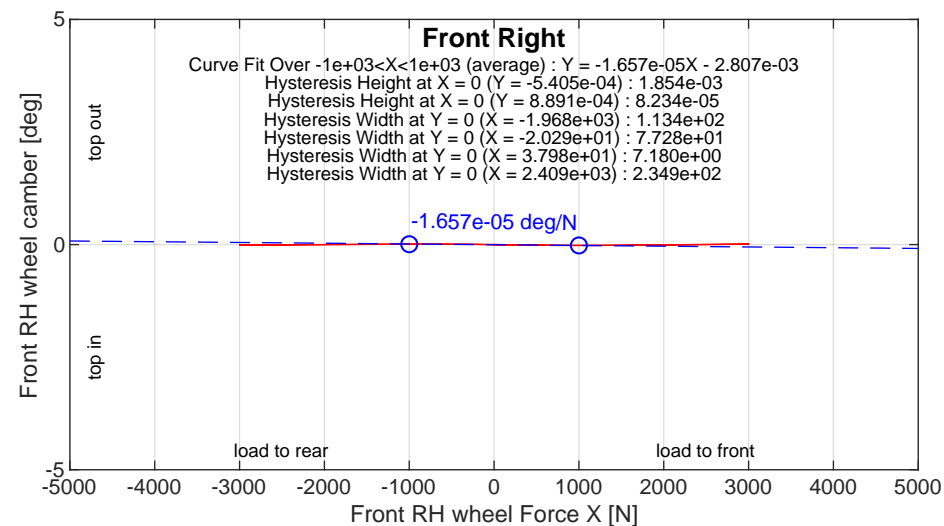
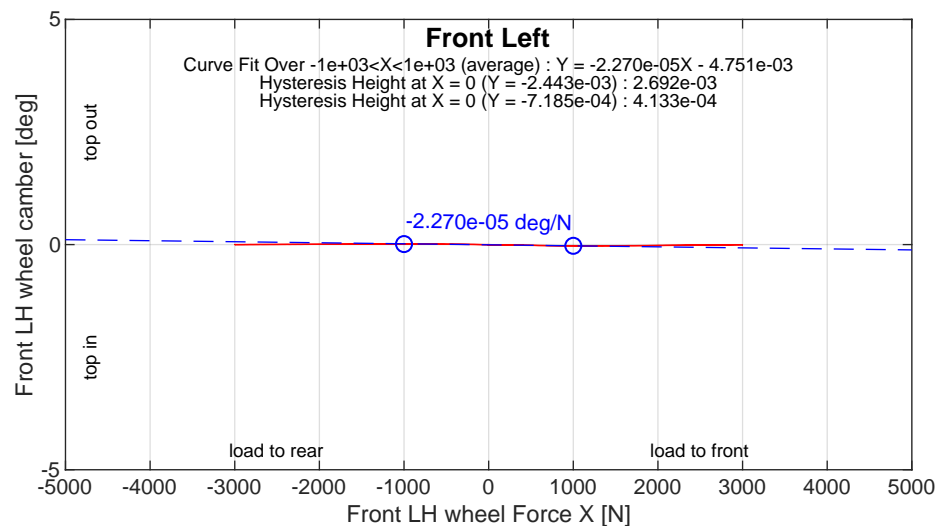
Engine On : Yes

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Longitudinal Compliance

Audi Q5

Longitudinal Camber Compliance

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 4 : Standard K&C test - Validation

Longitudinal Compliance at 0mm Y offset : Test #5 of 9

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

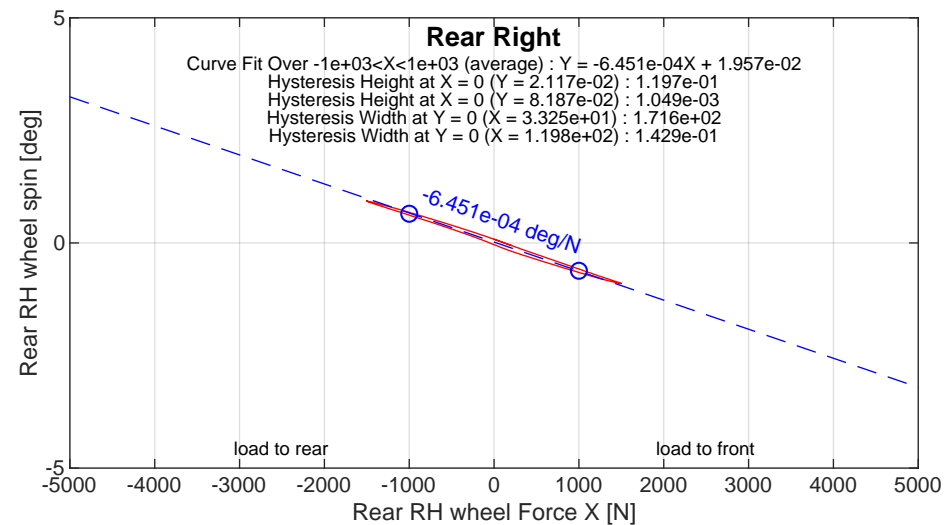
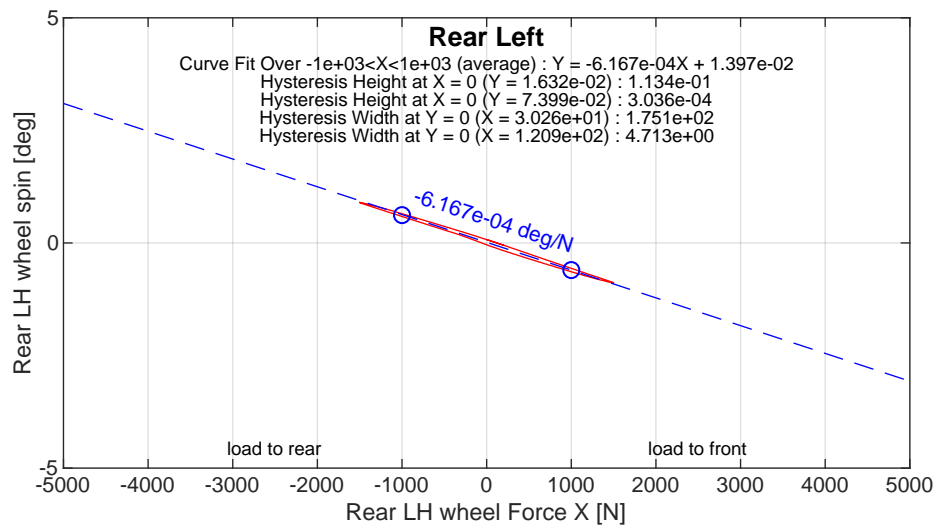
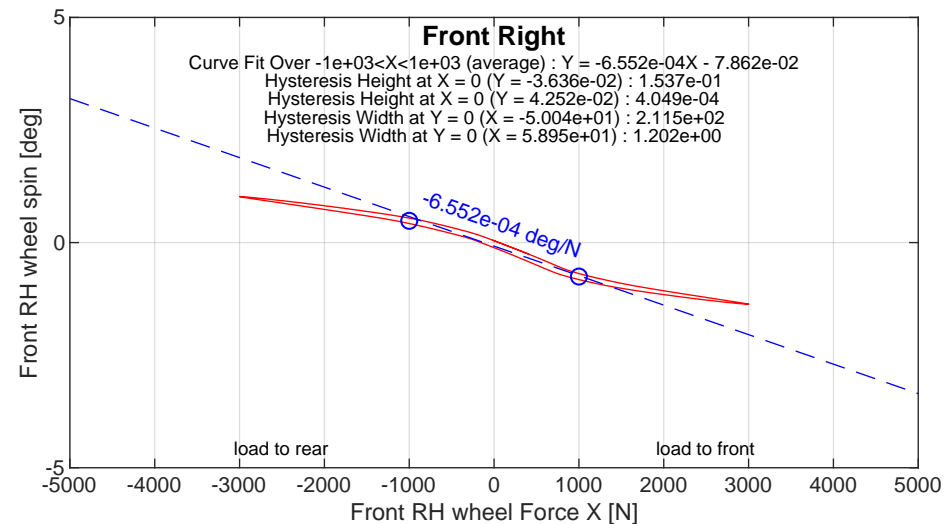
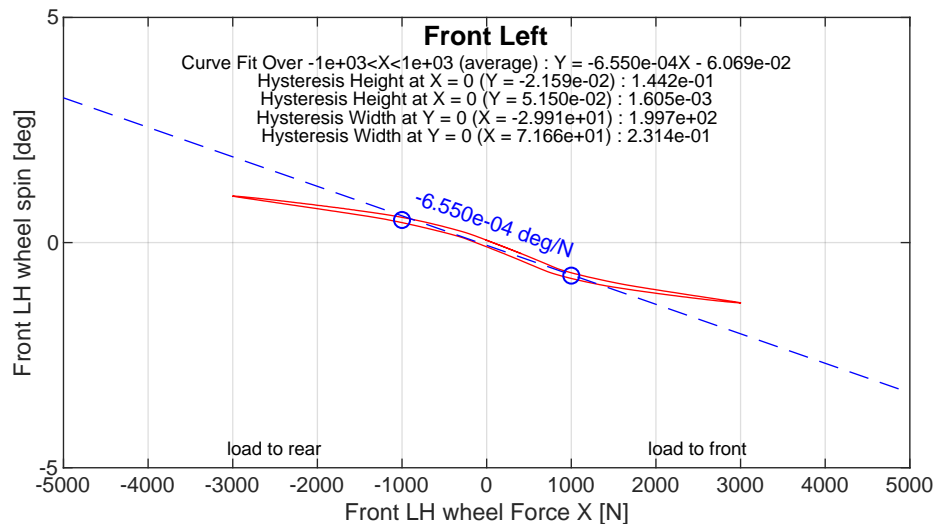
Engine On : Yes

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Longitudinal Compliance

Audi Q5

Longitudinal Spin Compliance

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 4 : Standard K&C test - Validation

Longitudinal Compliance at 0mm Y offset : Test #5 of 9

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

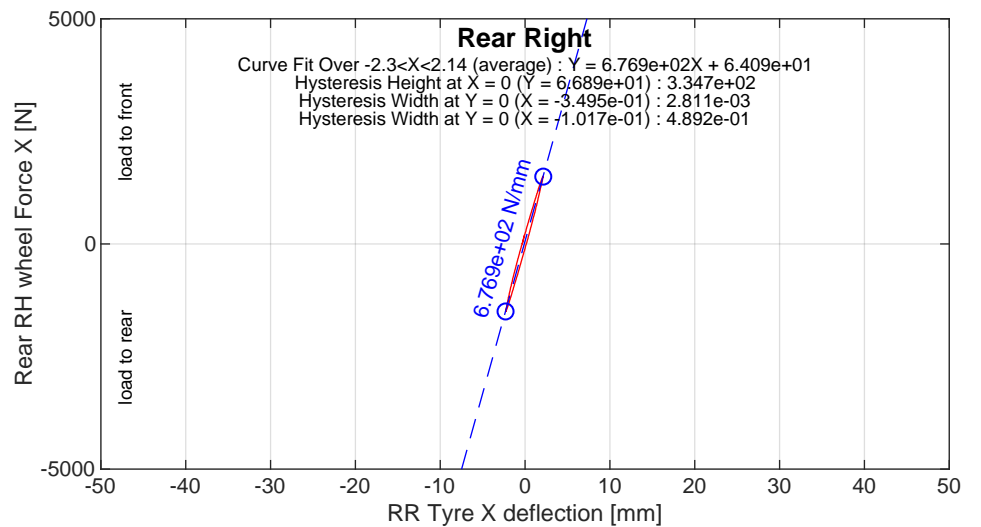
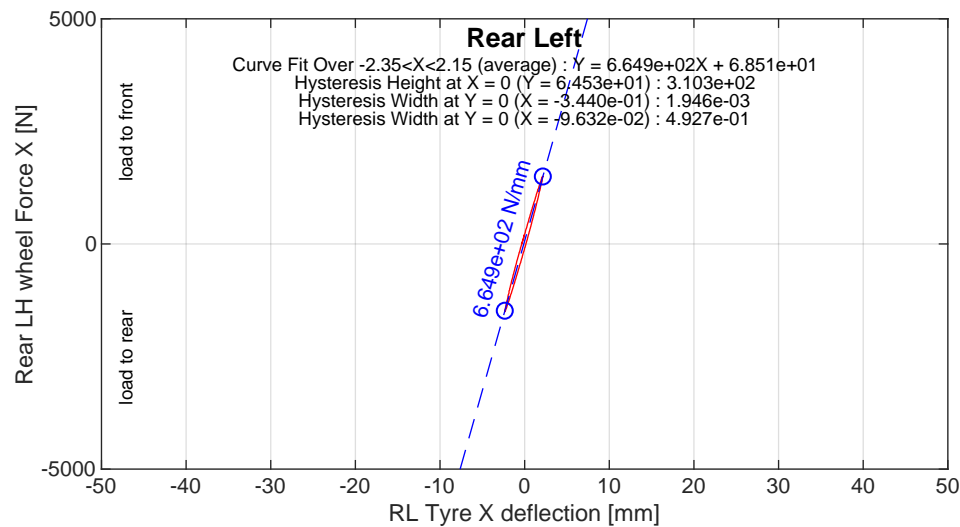
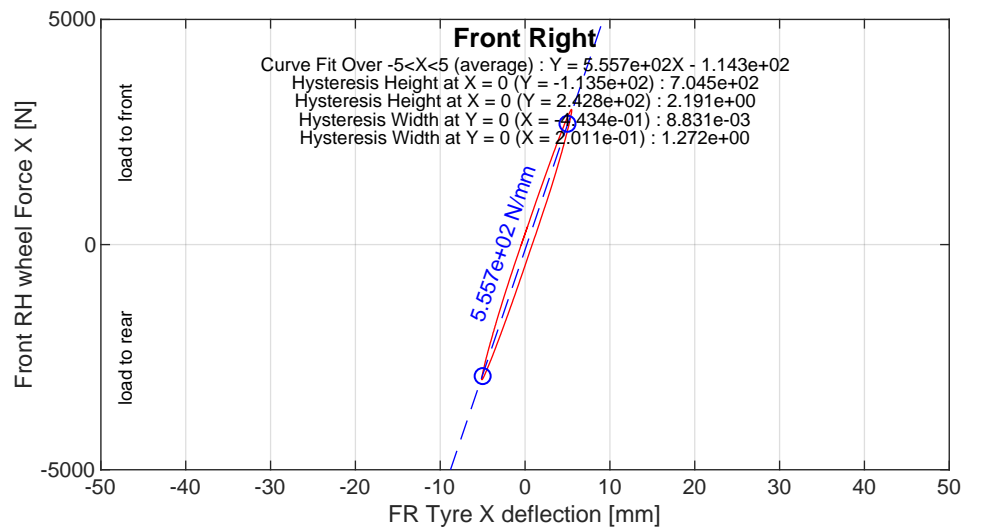
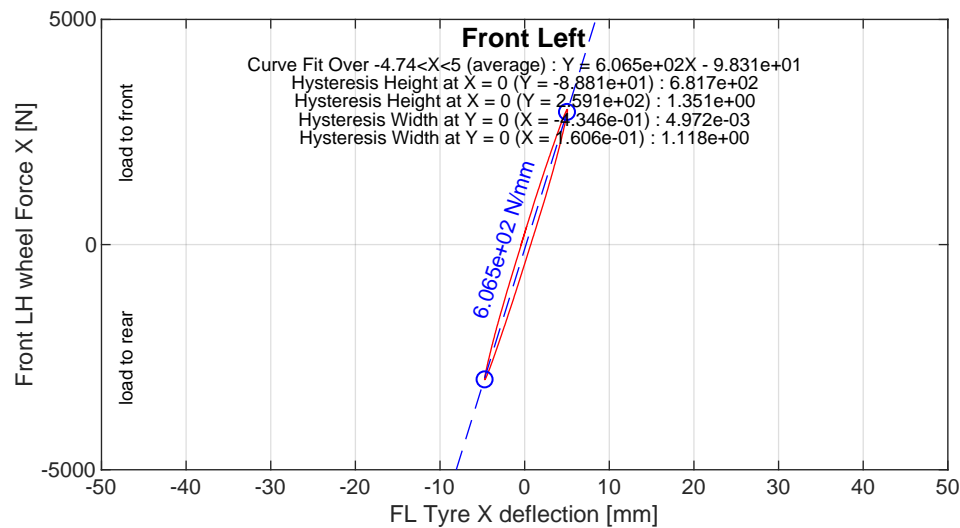
Engine On : Yes

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



Longitudinal Compliance

Audi Q5

Longitudinal Tyre Stiffness

Co-ordinate system : ISO Ground-fixed

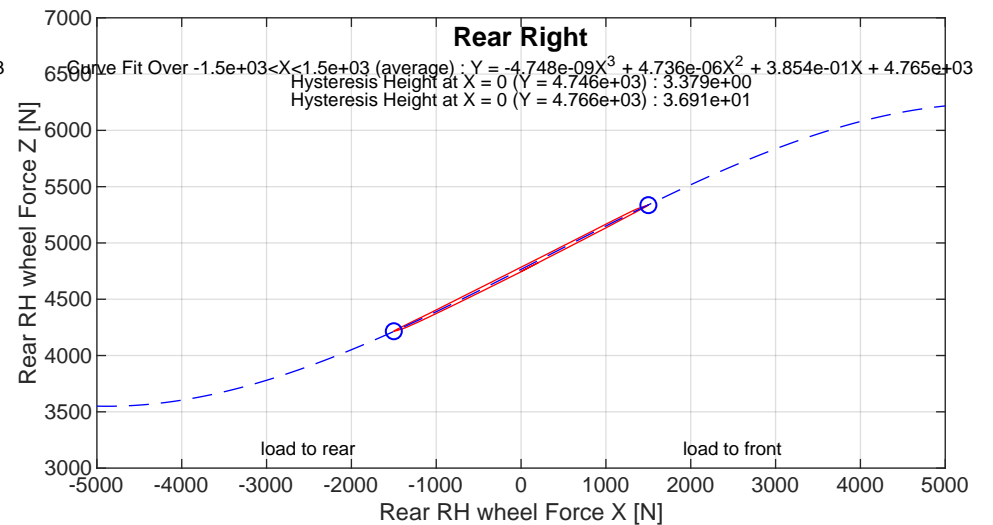
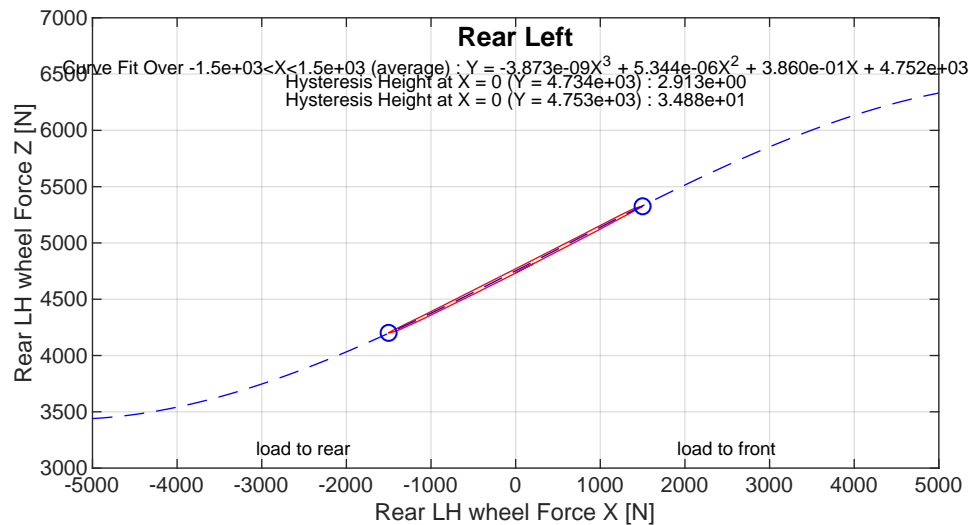
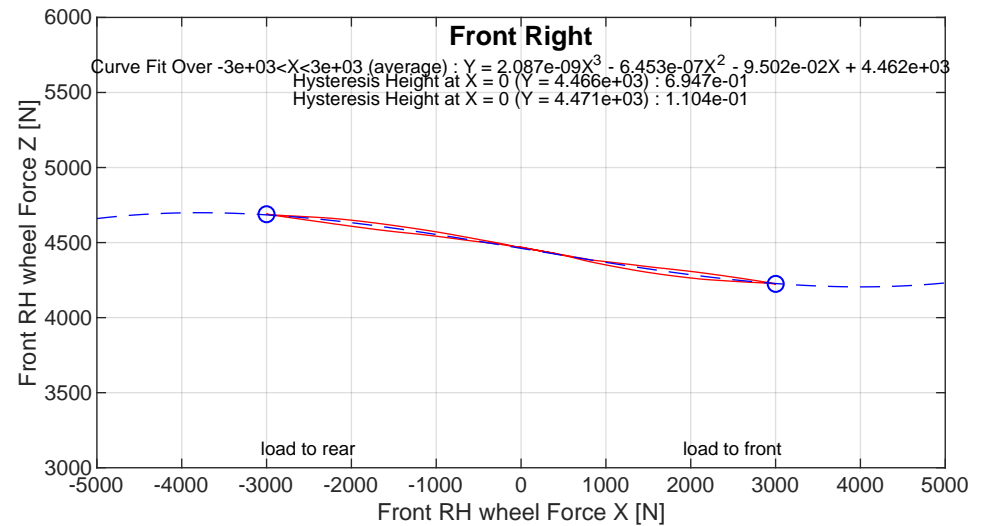
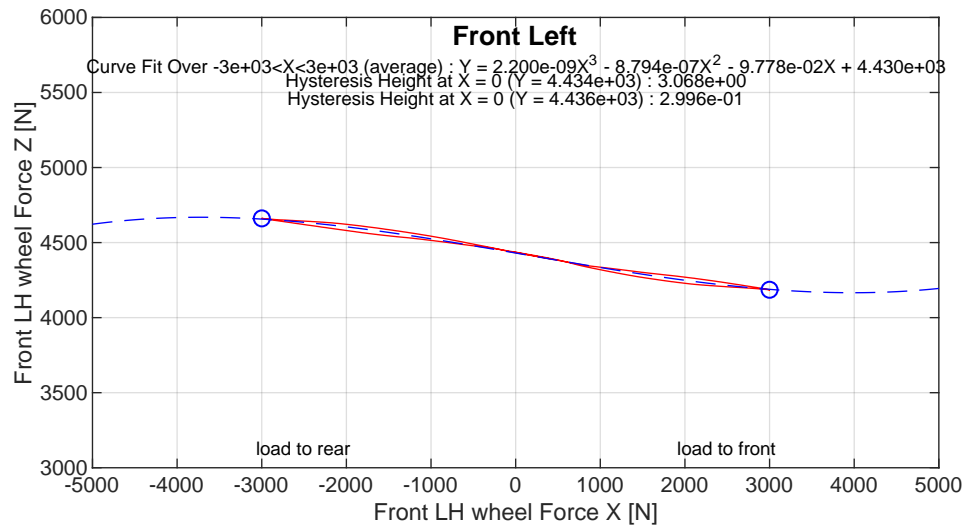
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Longitudinal Compliance at 0mm Y offset : Test #5 of 9
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Longitudinal Compliance

Audi Q5

Anti-Dive/Squat Curve Fits

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 4 : Standard K&C test - Validation

Longitudinal Compliance at 0mm Y offset : Test #5 of 9

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

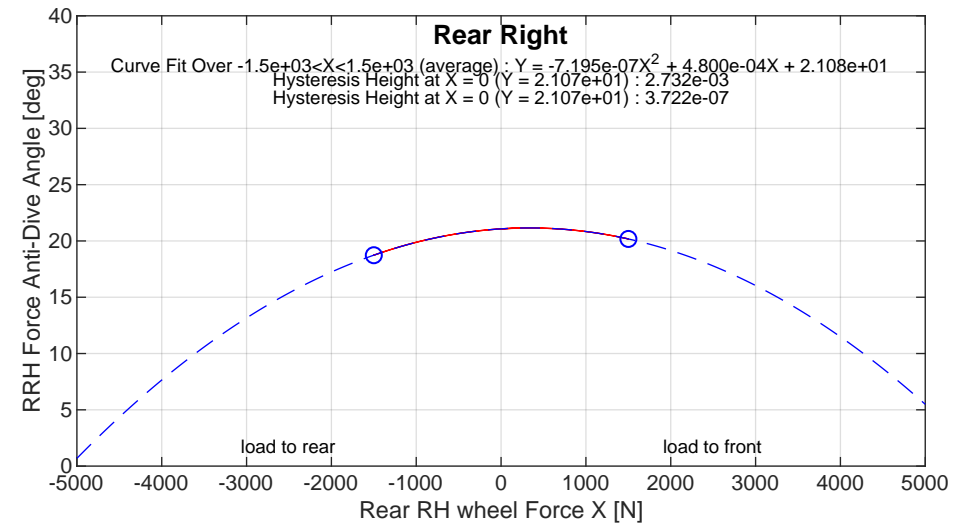
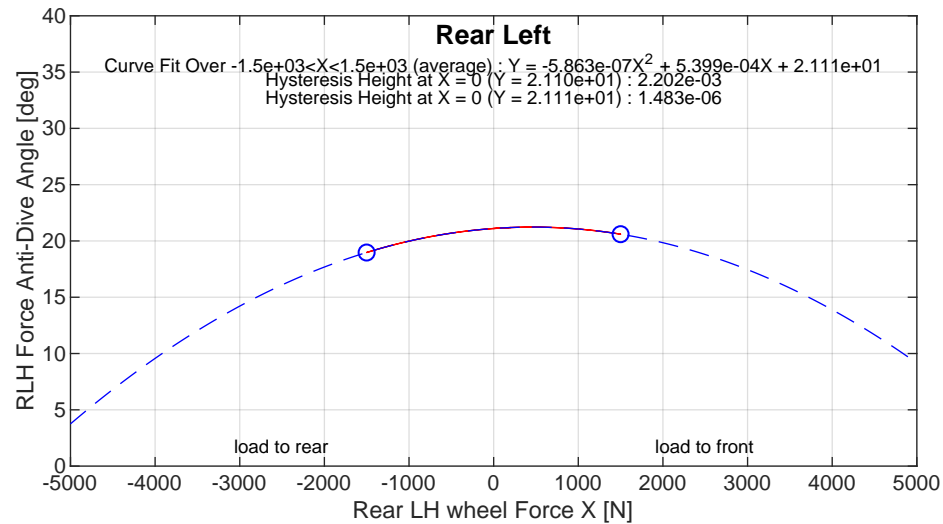
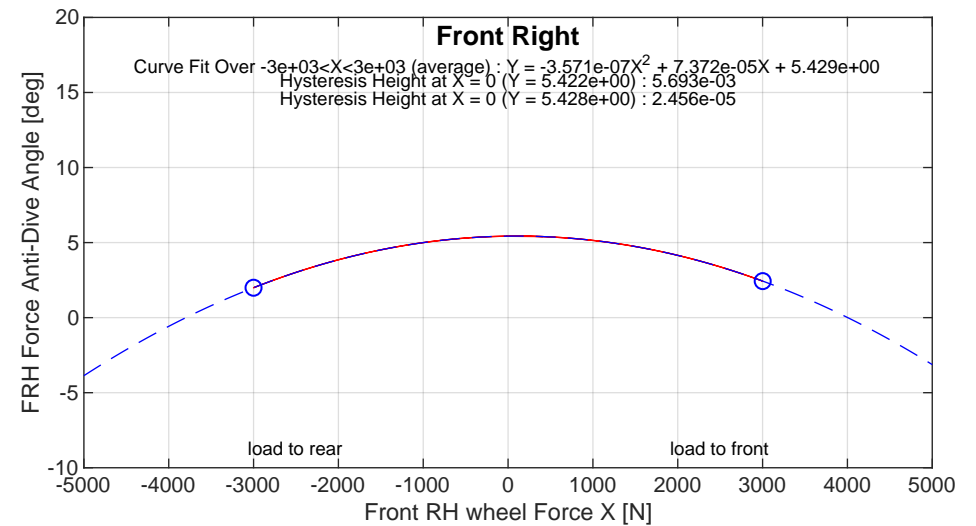
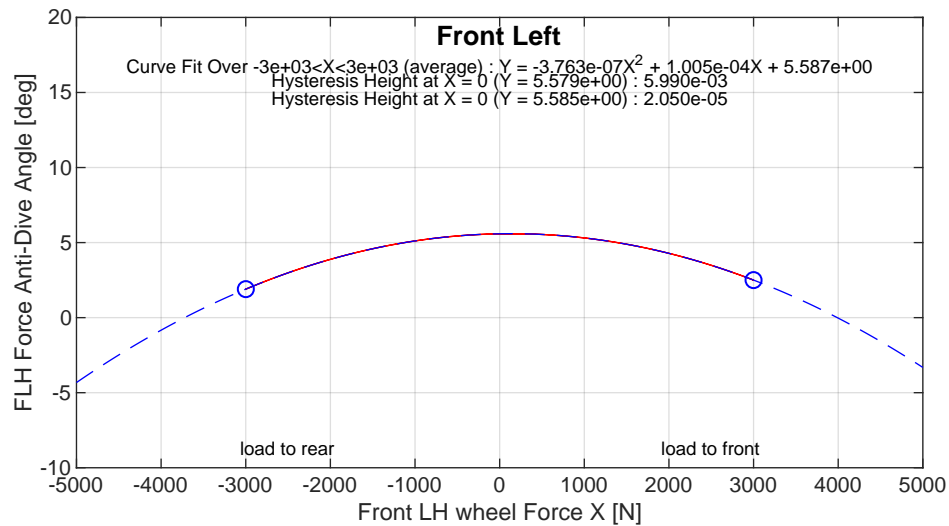
Engine On : Yes

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Longitudinal Compliance

Audi Q5

Force Anti-Dive Angles

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Longitudinal Compliance at 0mm Y offset : Test #5 of 9
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31

Plotted Curve Fit Coefficients

Longitudinal Wheel Centre Compliance (FL/FR/RL/RR) [mm/N]:

3.730e-03	3.502e-01
3.709e-03	3.734e-01
1.199e-03	-6.996e-02
1.143e-03	-6.385e-02

Longitudinal Toe Compliance (FL/FR/RL/RR) [deg/N]:

5.763e-05	1.111e-02
5.474e-05	-6.508e-03
-3.449e-05	8.219e-03
-4.034e-05	5.694e-03

Longitudinal Camber Compliance (FL/FR/RL/RR) [deg/N]:

-2.270e-05	-4.751e-03
-1.657e-05	-2.807e-03
-4.444e-06	2.103e-03
2.592e-06	2.759e-03

Longitudinal Spin Compliance (FL/FR/RL/RR) [deg/N]:

-6.550e-04	-6.069e-02
-6.552e-04	-7.862e-02
-6.167e-04	1.397e-02
-6.451e-04	1.957e-02

Longitudinal Tyre Stiffness (FL/FR/RL/RR) [N/mm]:

6.065e+02	-9.831e+01
5.557e+02	-1.143e+02
6.649e+02	6.851e+01
6.769e+02	6.409e+01

Anti-Dive/Squat Curve Fits (FL/FR/RL/RR) [N/N]:

2.200e-09	-8.794e-07	-9.778e-02	4.430e+03
2.087e-09	-6.453e-07	-9.502e-02	4.462e+03
-3.873e-09	5.344e-06	3.860e-01	4.752e+03
-4.748e-09	4.736e-06	3.854e-01	4.765e+03

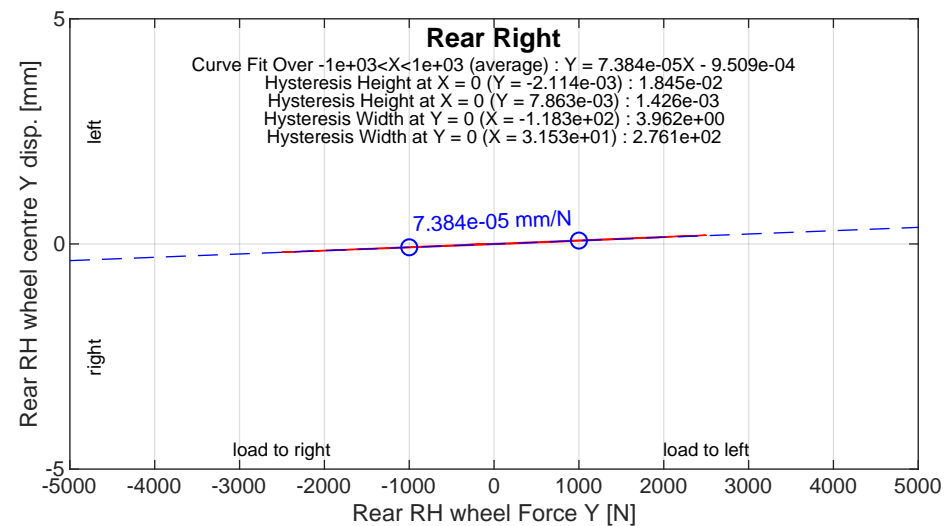
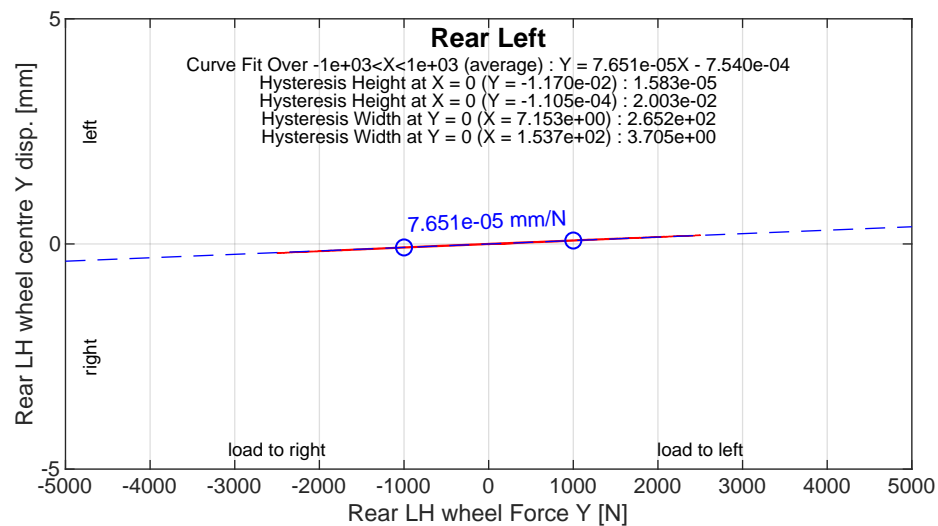
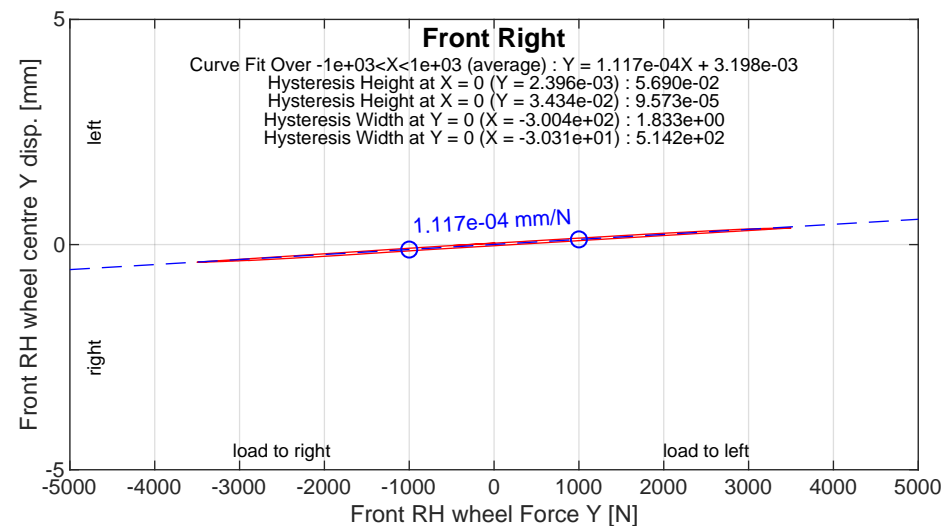
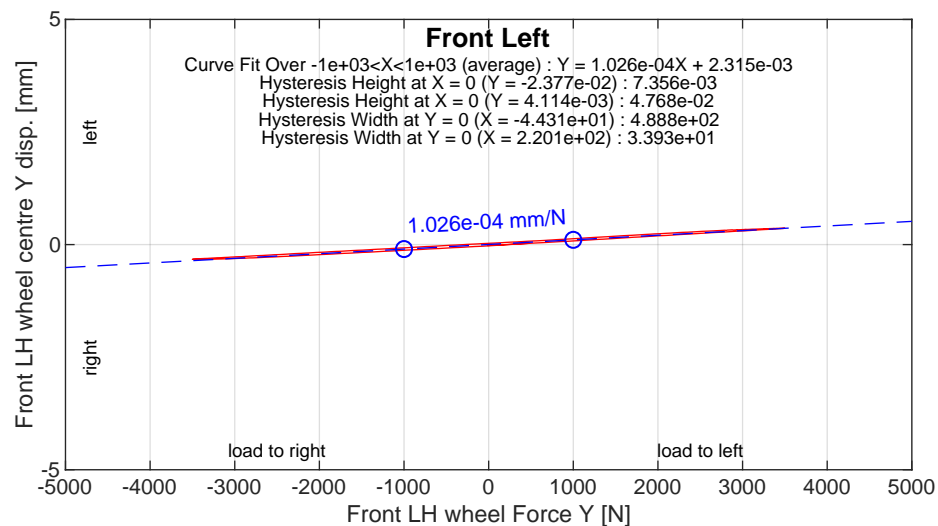
Force Anti-Dive Angles (FL/FR/RL/RR) [deg/N]:

-3.763e-07	1.005e-04	5.587e+00
-3.571e-07	7.372e-05	5.429e+00
-5.863e-07	5.399e-04	2.111e+01
-7.195e-07	4.800e-04	2.108e+01

Calculated Parameters

Force Anti-Dive Angles (FL/FR/RL/RR) [deg]:

5.585e+00
5.428e+00
2.111e+01
2.108e+01



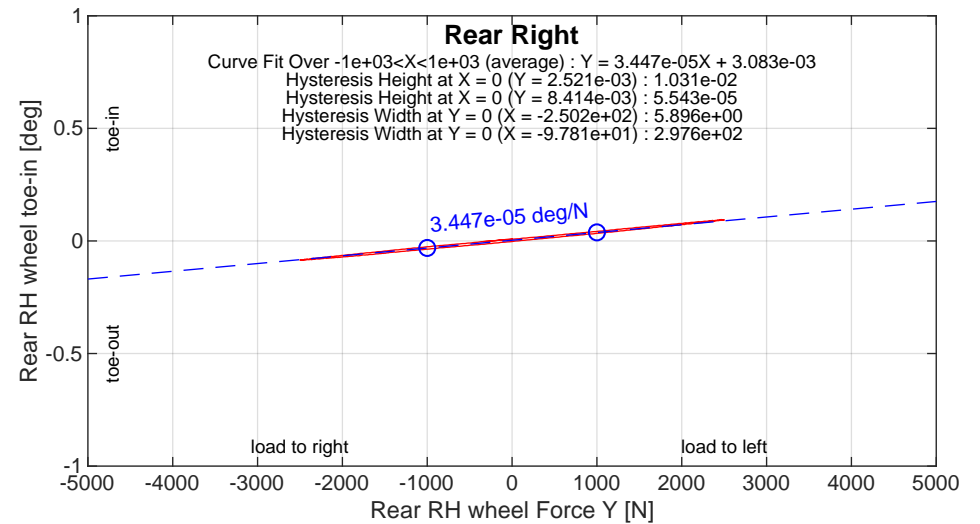
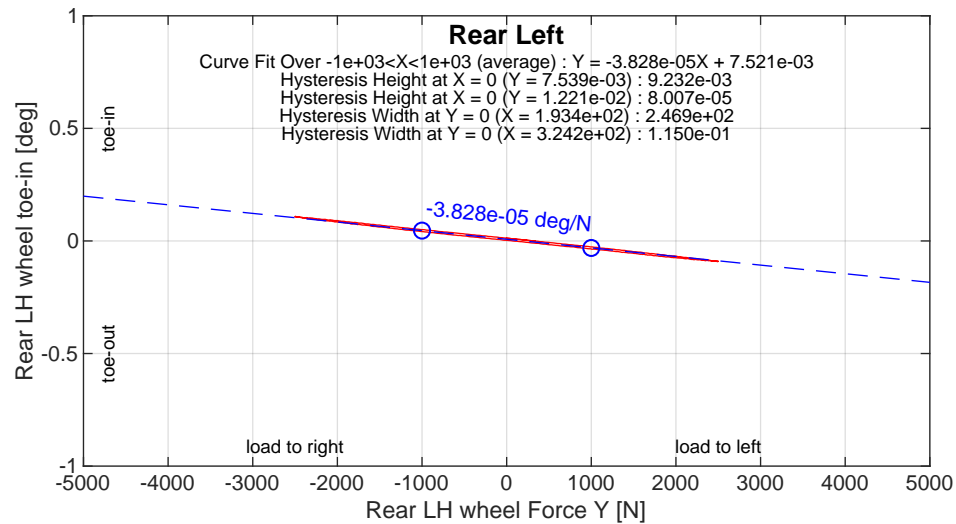
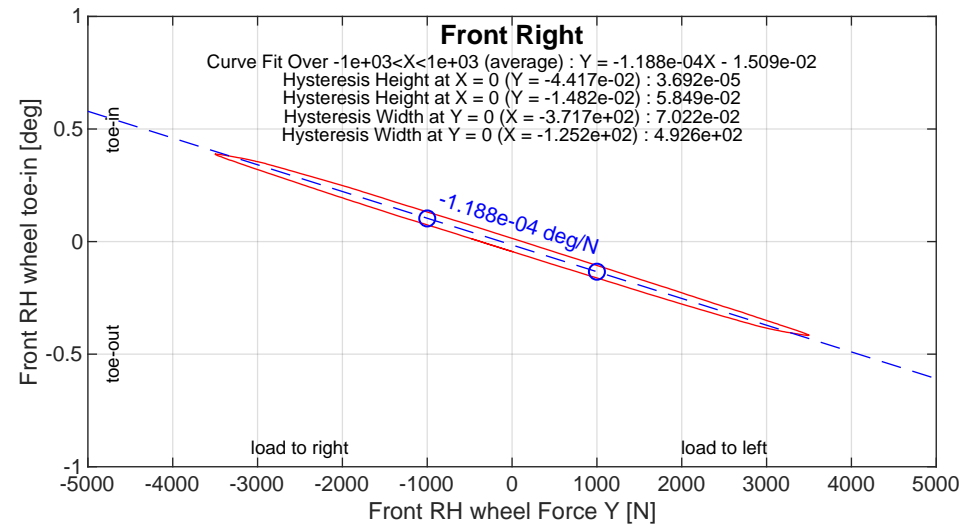
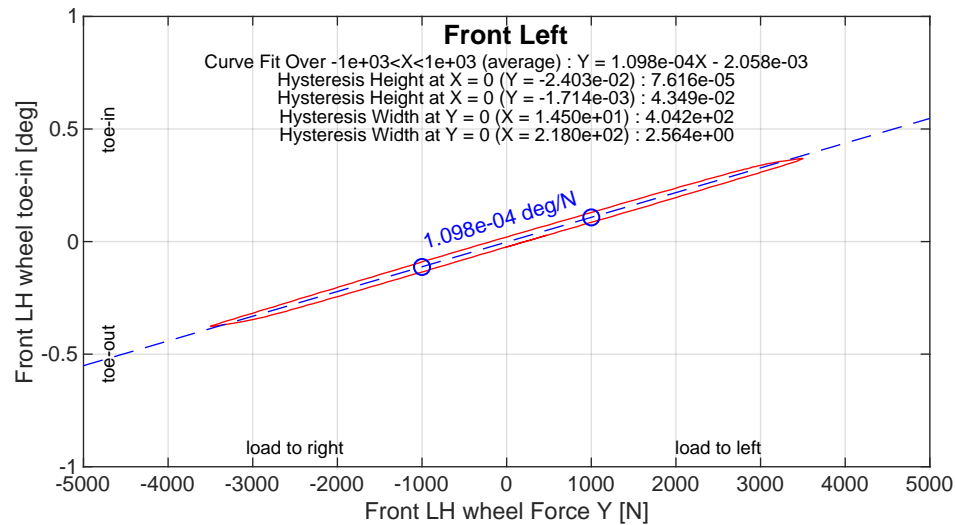
Lateral Compliance, Opposed
Audi Q5
Lateral Wheel Centre Compliance
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Lateral Compliance at 0mm X offset (anti-phase) : Test #6 of 9
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Lateral Compliance, Opposed

Audi Q5

Lateral Toe Compliance

Co-ordinate system : ISO Ground-fixed

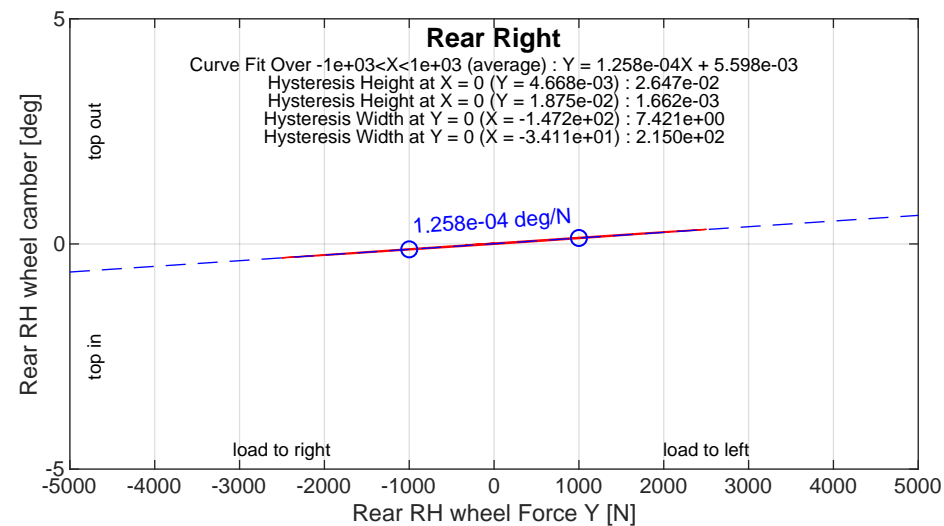
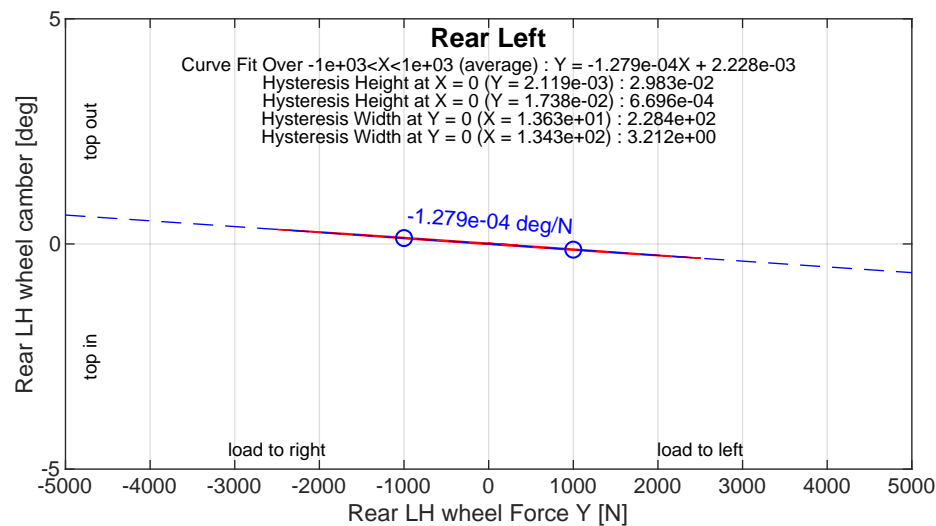
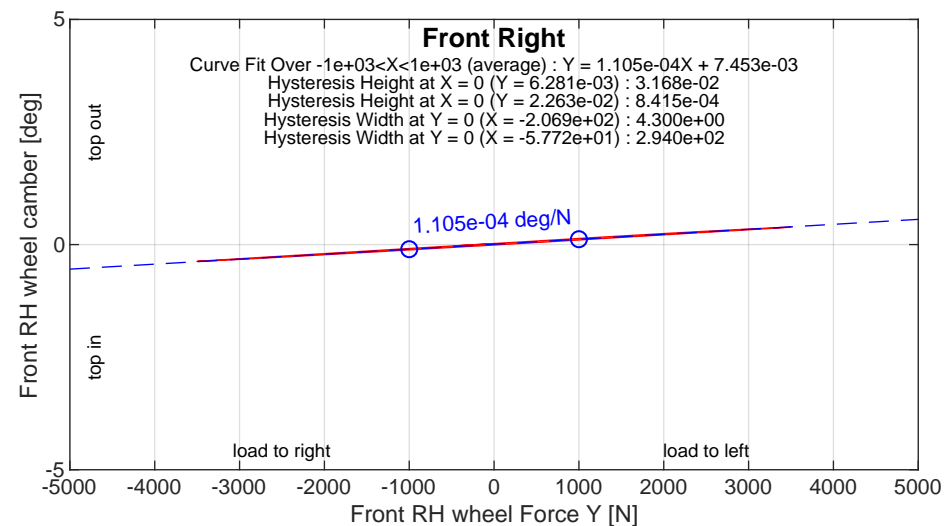
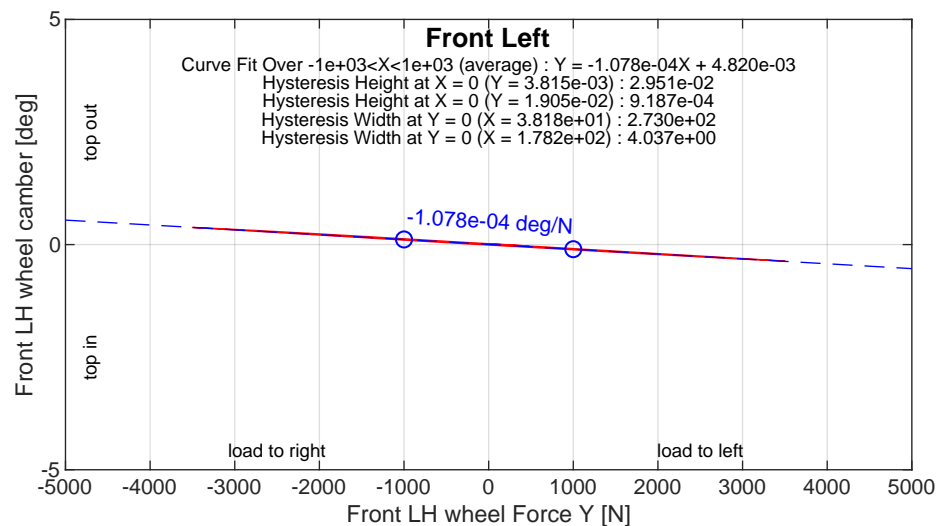
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Lateral Compliance at 0mm X offset (anti-phase) : Test #6 of 9
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Lateral Compliance, Opposed

Audi Q5

Lateral Camber Compliance

Co-ordinate system : ISO Ground-fixed

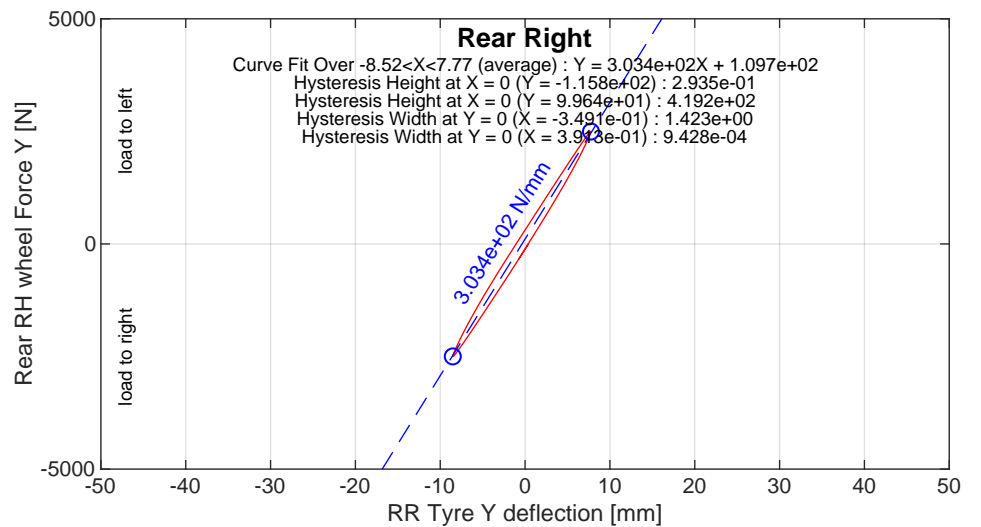
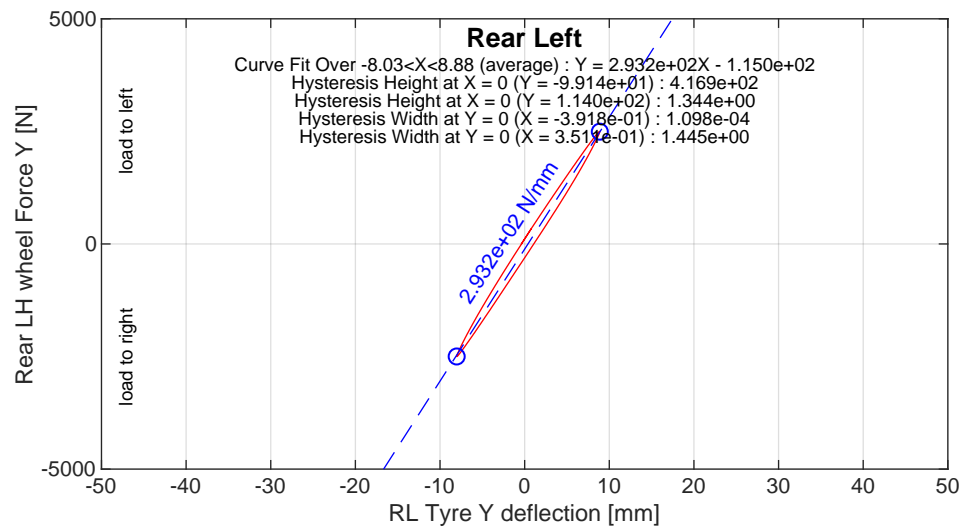
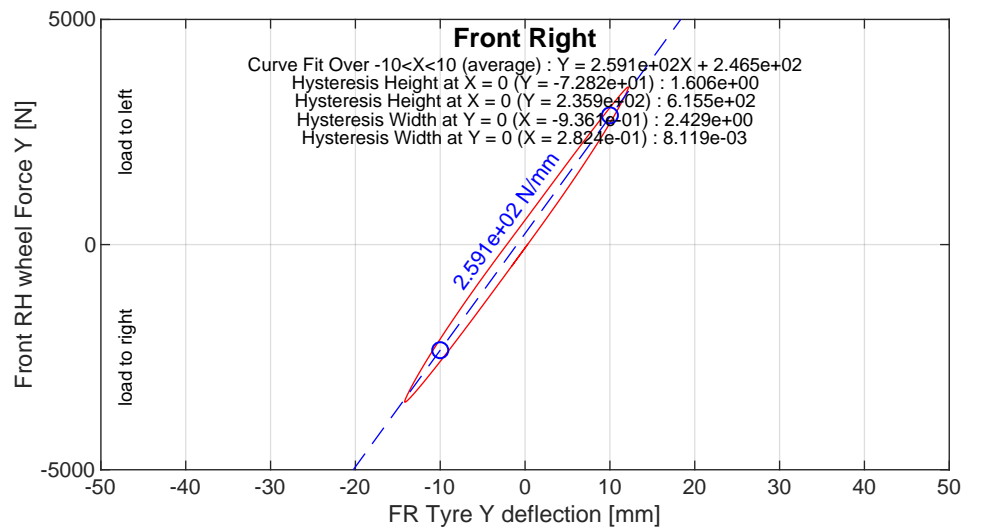
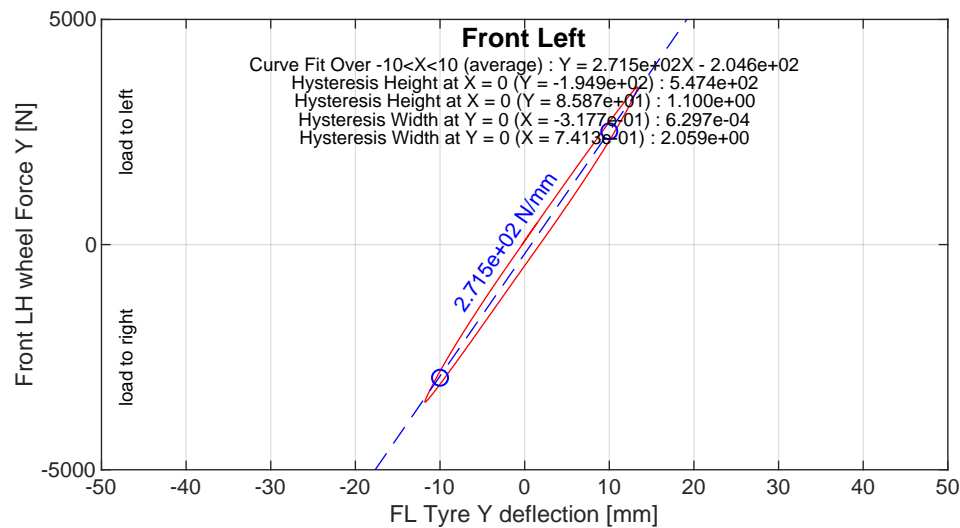
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Lateral Compliance at 0mm X offset (anti-phase) : Test #6 of 9
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



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Lateral Compliance, Opposed

Audi Q5

Lateral Tyre Stiffness

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 4 : Standard K&C test - Validation

Lateral Compliance at 0mm X offset (anti-phase) : Test #6 of 9

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

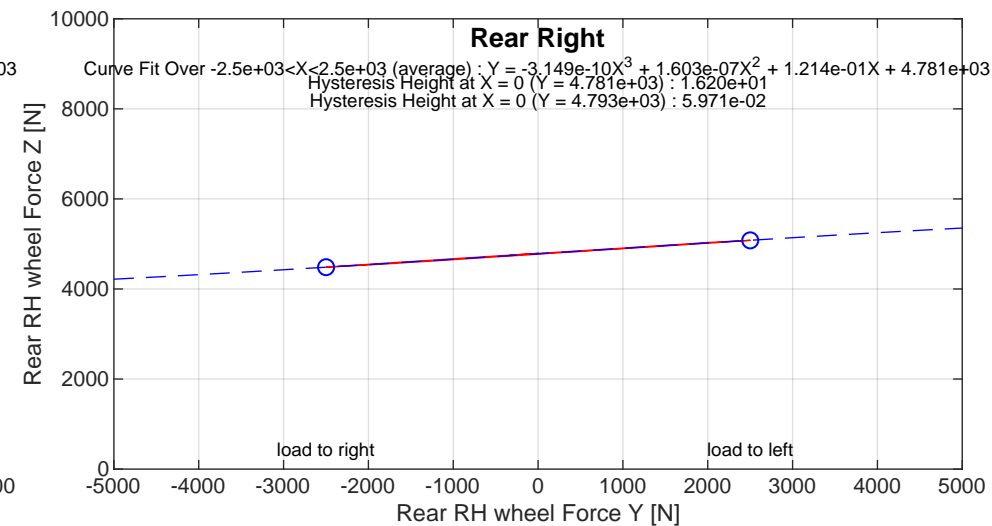
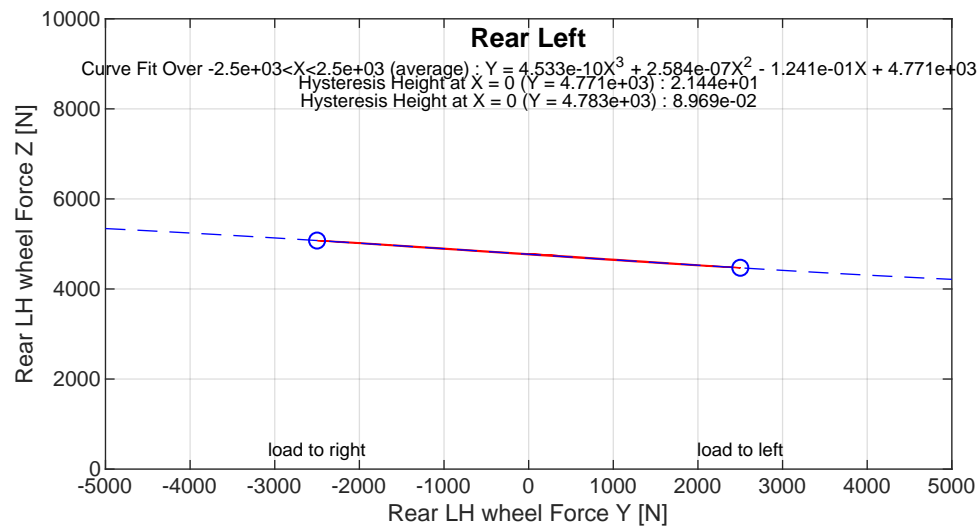
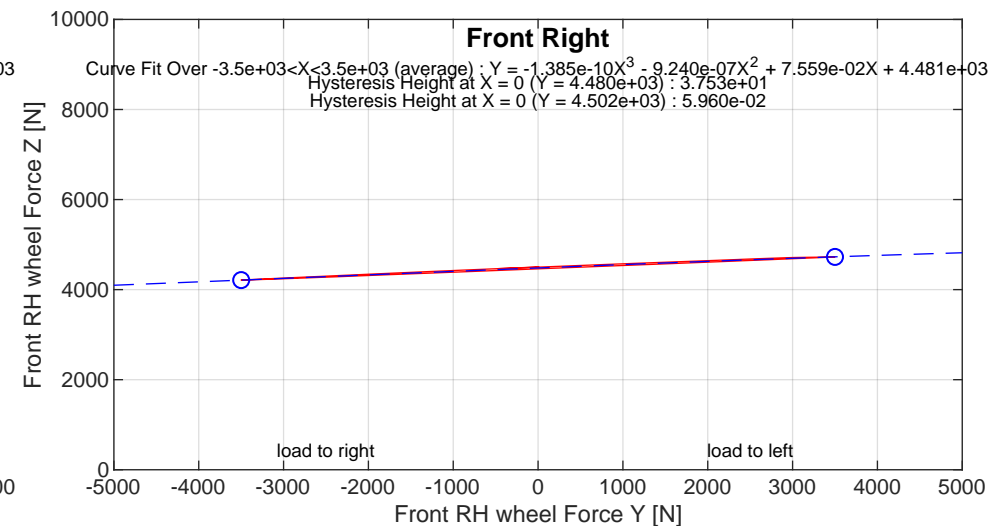
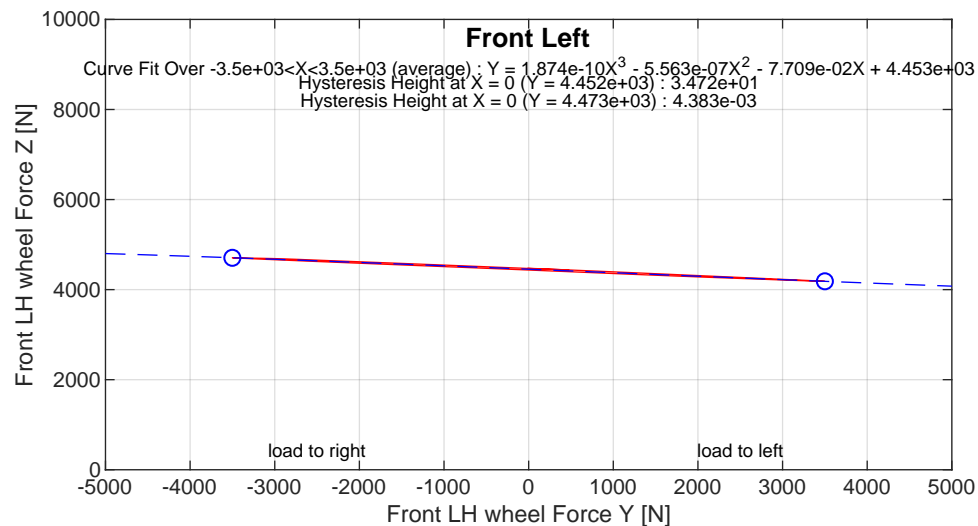
Engine On : Yes

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



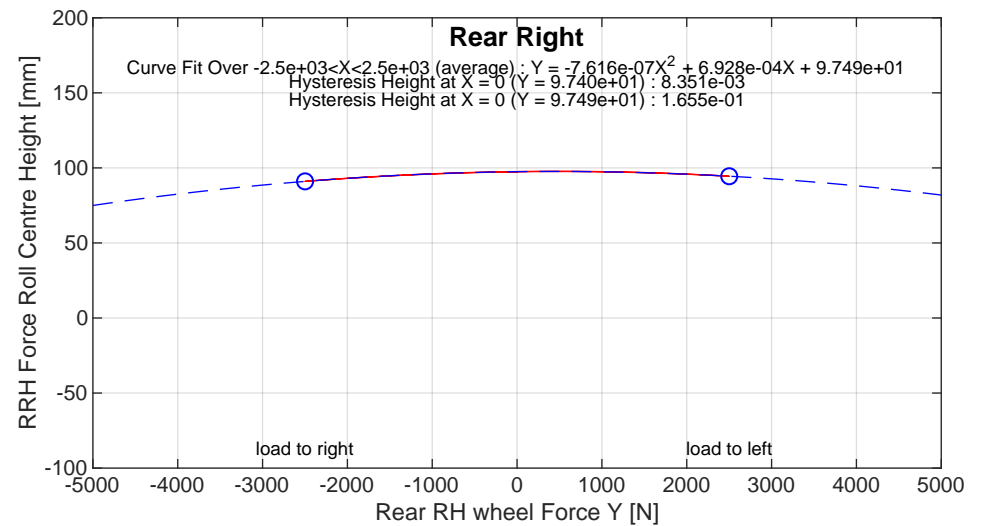
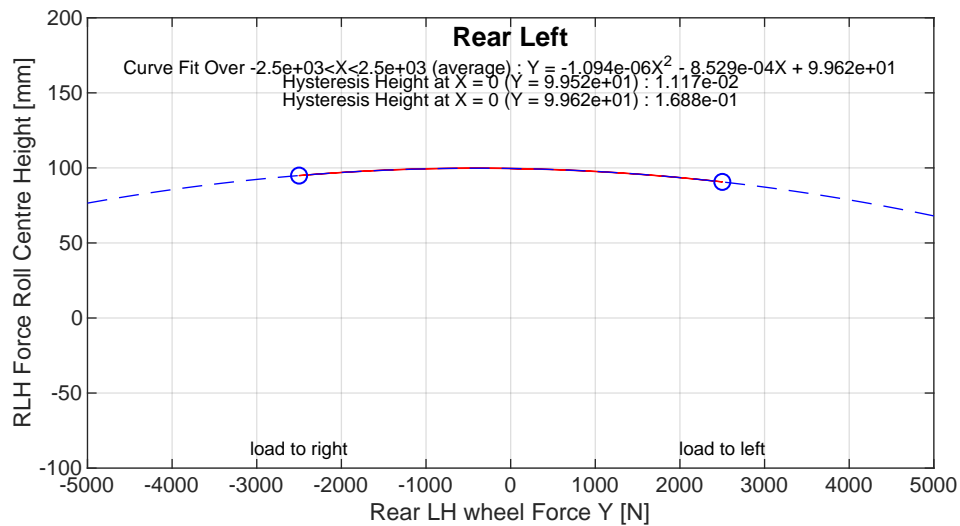
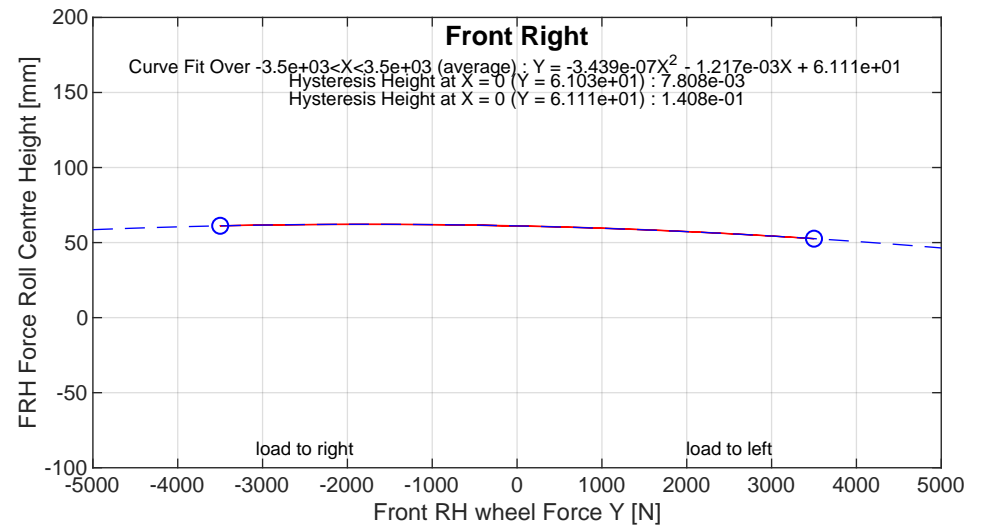
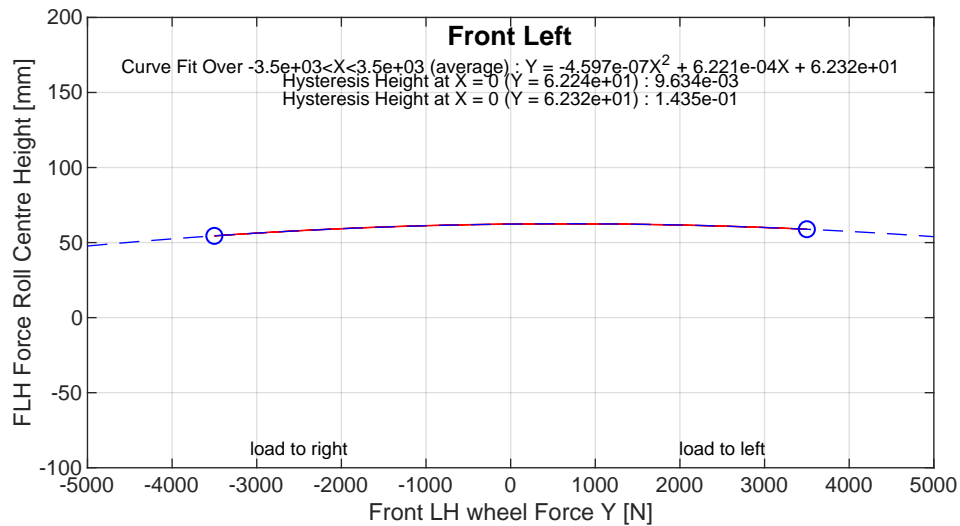
Lateral Compliance, Opposed
Audi Q5
Roll Centre Curve Fits
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Lateral Compliance at 0mm X offset (anti-phase) : Test #6 of 9
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



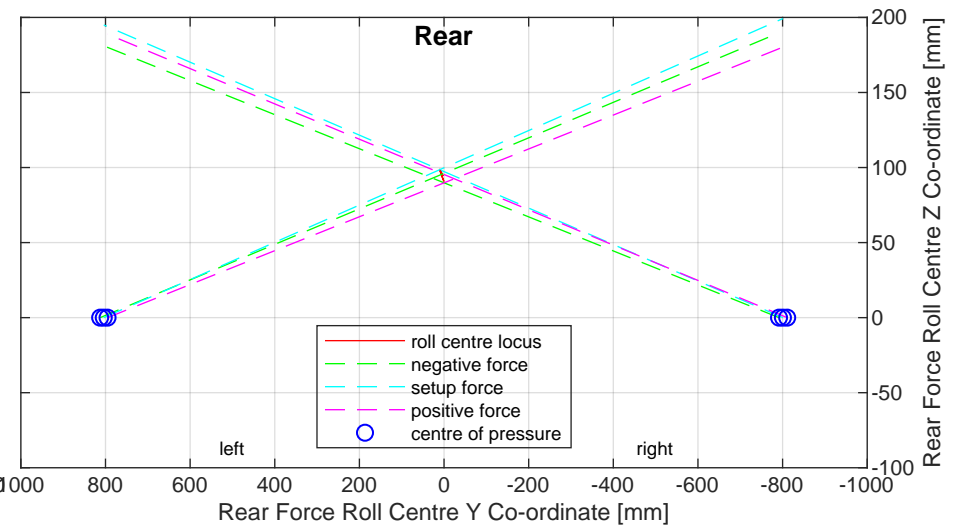
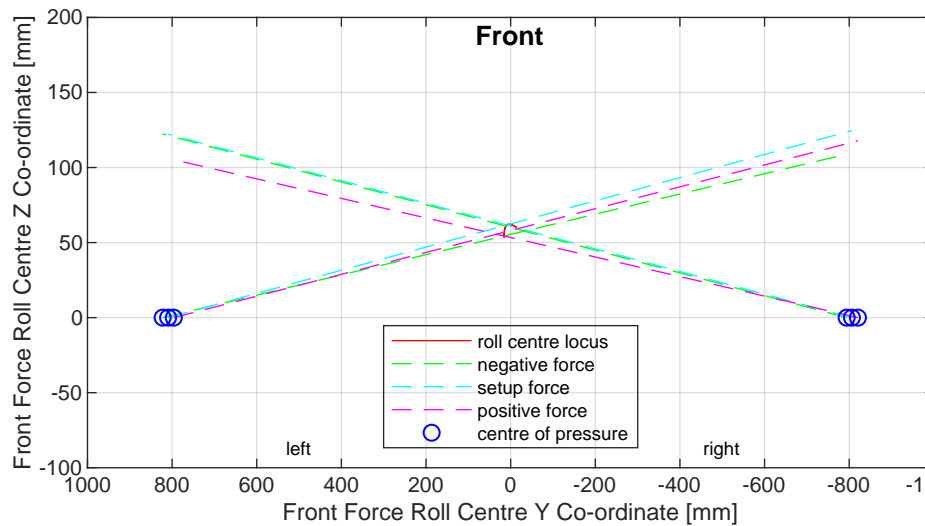
Lateral Compliance, Opposed
Audi Q5
Force Roll Centre Height
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Lateral Compliance at 0mm X offset (anti-phase) : Test #6 of 9
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Lateral Compliance, Opposed
Audi Q5
Force Roll Centre Locus
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Lateral Compliance at 0mm X offset (anti-phase) : Test #6 of 9
 Test Run #1, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31

Plotted Curve Fit Coefficients

Lateral Wheel Centre Compliance (FL/FR/RL/RR) [mm/N]:

1.026e-04	2.315e-03
1.117e-04	3.198e-03
7.651e-05	-7.540e-04
7.384e-05	-9.509e-04

Lateral Toe Compliance (FL/FR/RL/RR) [deg/N]:

1.098e-04	-2.058e-03
-1.188e-04	-1.509e-02
-3.828e-05	7.521e-03
3.447e-05	3.083e-03

Lateral Camber Compliance (FL/FR/RL/RR) [deg/N]:

-1.078e-04	4.820e-03
1.105e-04	7.453e-03
-1.279e-04	2.228e-03
1.258e-04	5.598e-03

Lateral Tyre Stiffness (FL/FR/RL/RR) [N/mm]:

2.715e+02	-2.046e+02
2.591e+02	2.465e+02
2.932e+02	-1.150e+02
3.034e+02	1.097e+02

Roll Centre Curve Fits (FL/FR/RL/RR) [N/N]:

1.874e-10	-5.563e-07	-7.709e-02	4.453e+03
-1.385e-10	-9.240e-07	7.559e-02	4.481e+03
4.533e-10	2.584e-07	-1.241e-01	4.771e+03
-3.149e-10	1.603e-07	1.214e-01	4.781e+03

Force Roll Centre Height (FL/FR/RL/RR) [mm/N]:

-4.597e-07	6.221e-04	6.232e+01
-3.439e-07	-1.217e-03	6.111e+01
-1.094e-06	-8.529e-04	9.962e+01
-7.616e-07	6.928e-04	9.749e+01

Calculated Parameters

Force Roll Centre Heights (FL/FR/RL/RR) [mm]:

6.231e+01

6.111e+01

9.962e+01

9.749e+01

Force Roll Center Height (F/R) [mm]:

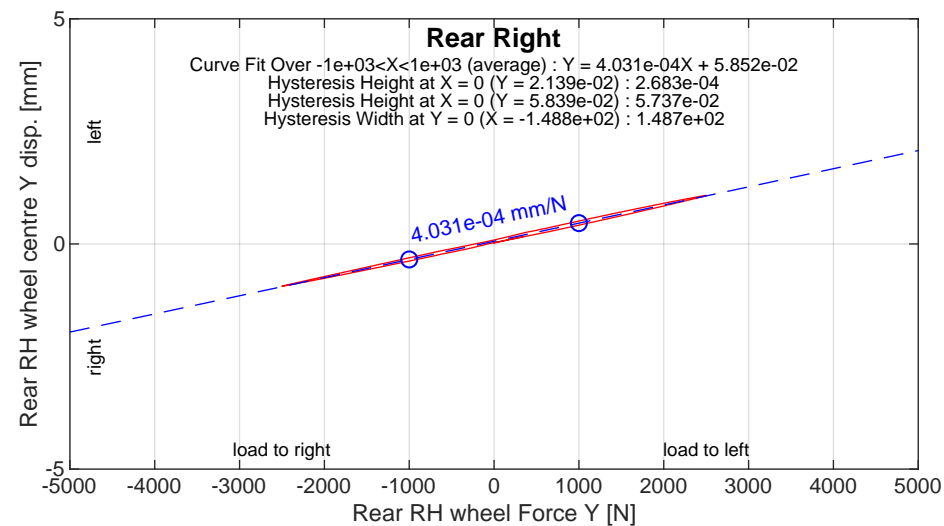
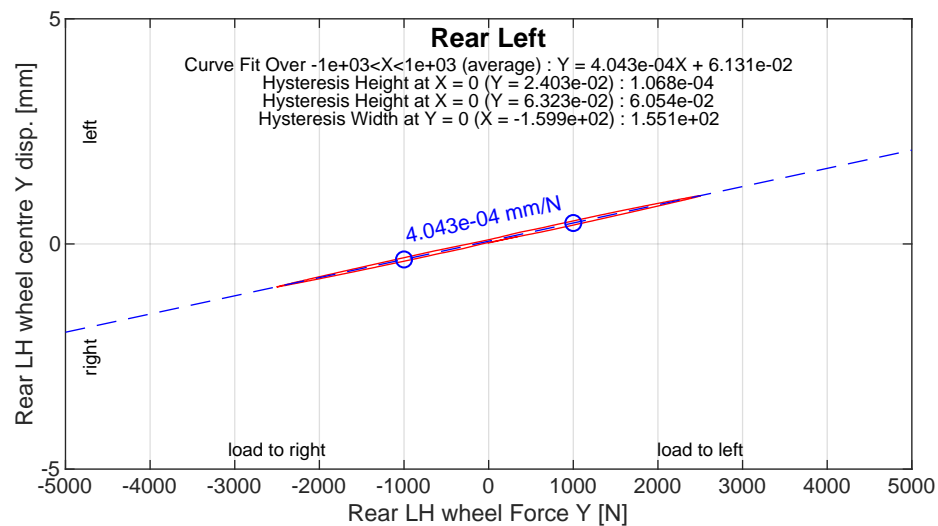
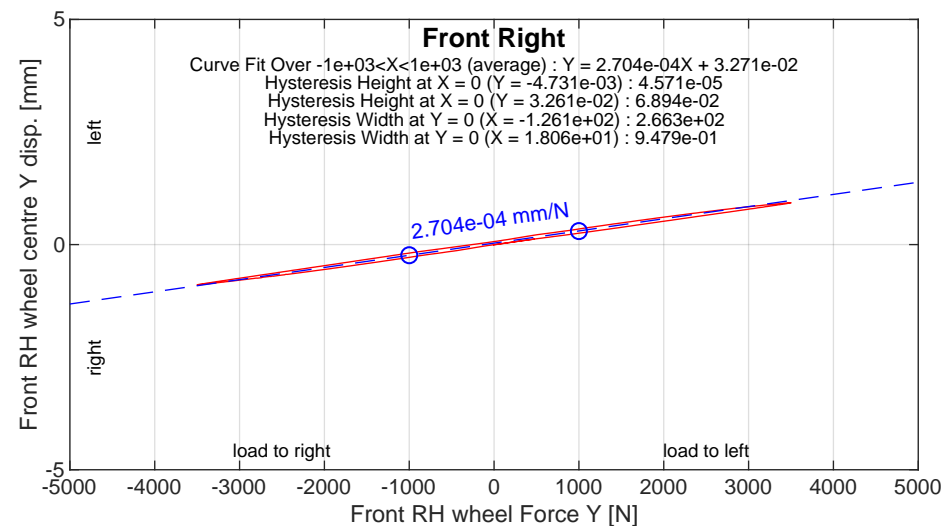
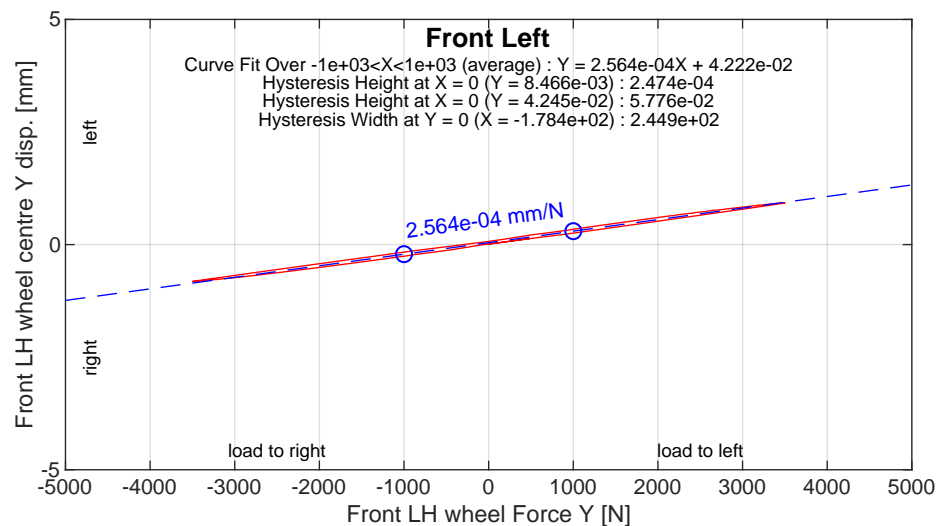
6.170e+01

9.855e+01

Force Roll Center Lateral Offset (F/R) [mm]:

8.897e+00

9.967e+00



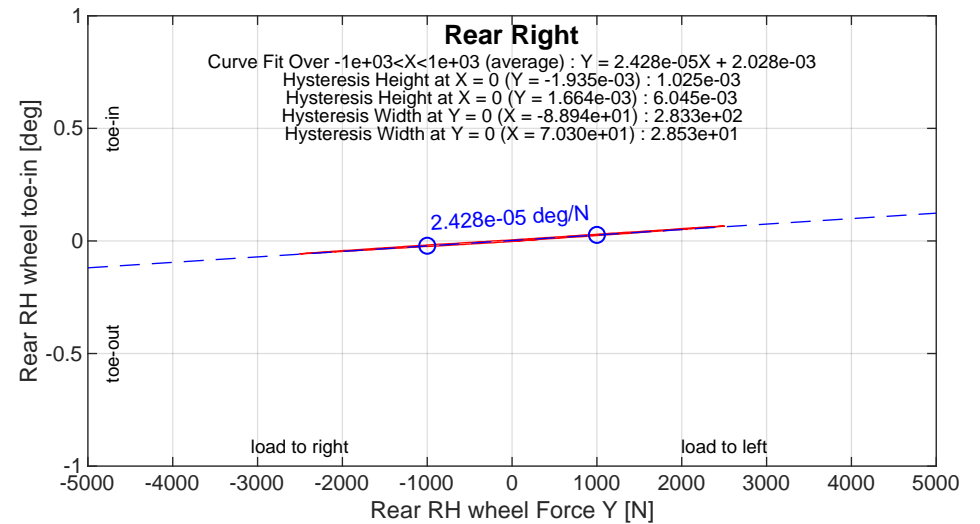
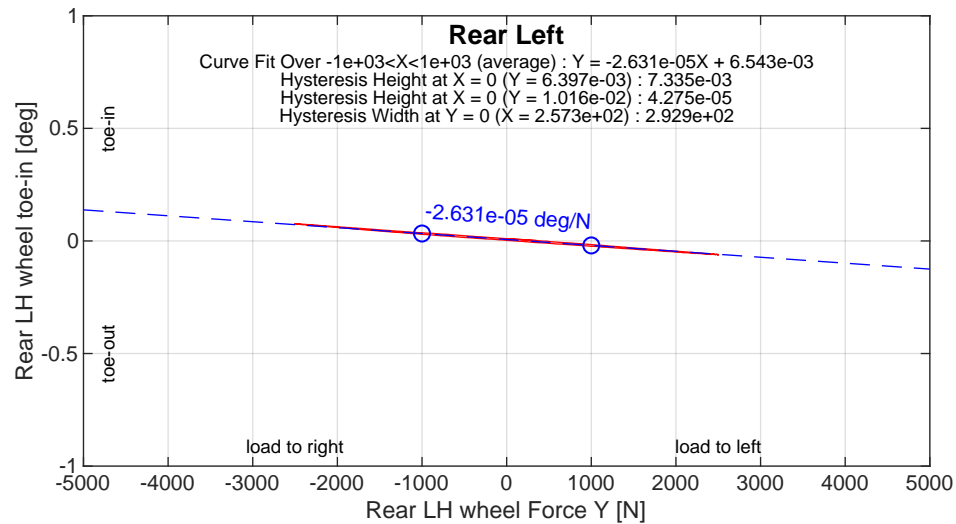
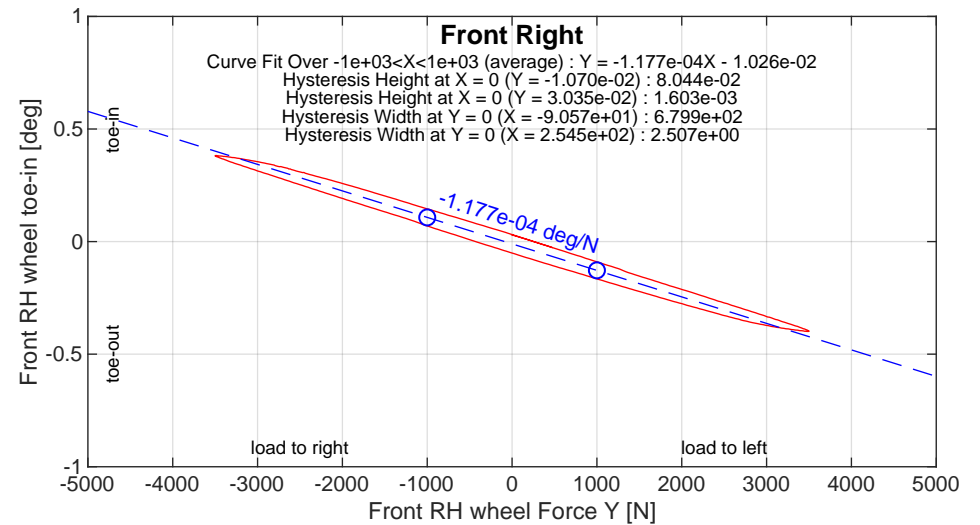
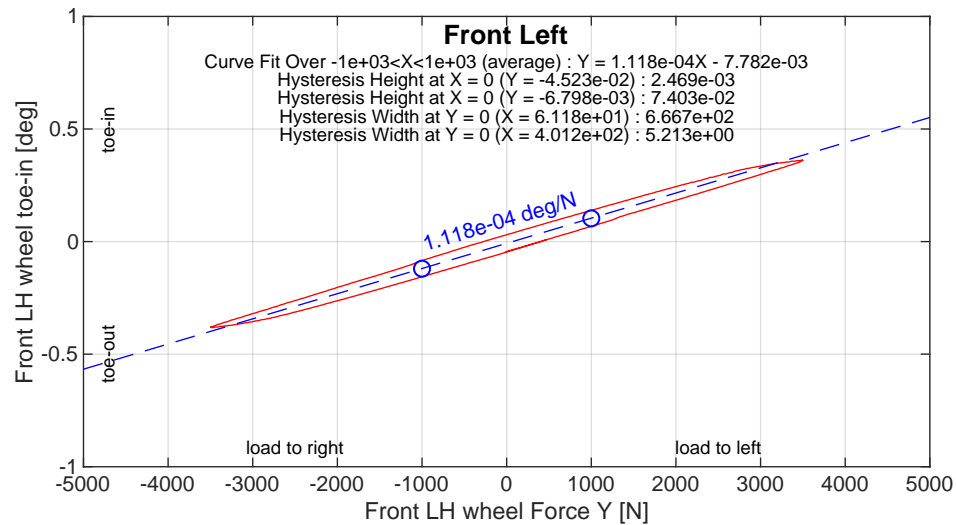
Lateral Compliance, Parallel
Audi Q5
Lateral Wheel Centre Compliance
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Lateral Compliance at 0mm X offset (in phase) : Test #7 of 9
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Lateral Compliance, Parallel Audi Q5

Lateral Toe Compliance

Co-ordinate system : ISO Ground-fixed

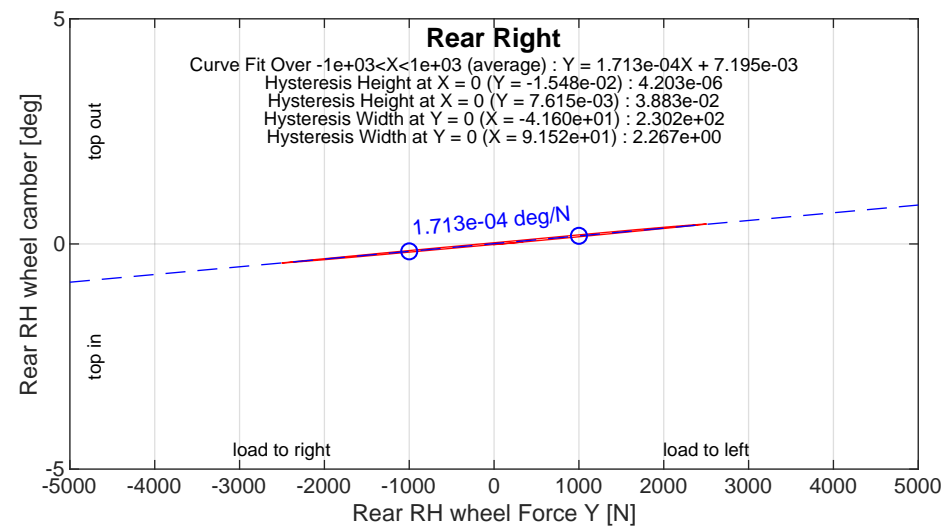
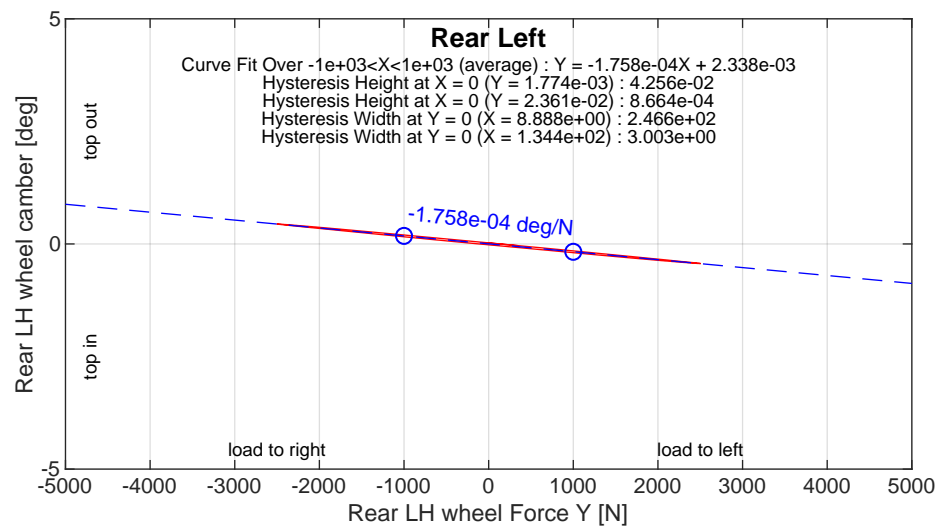
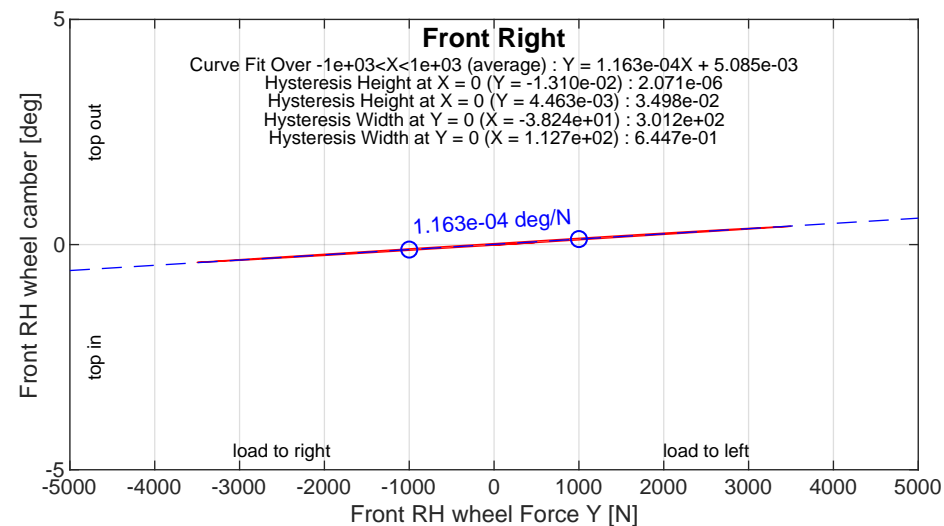
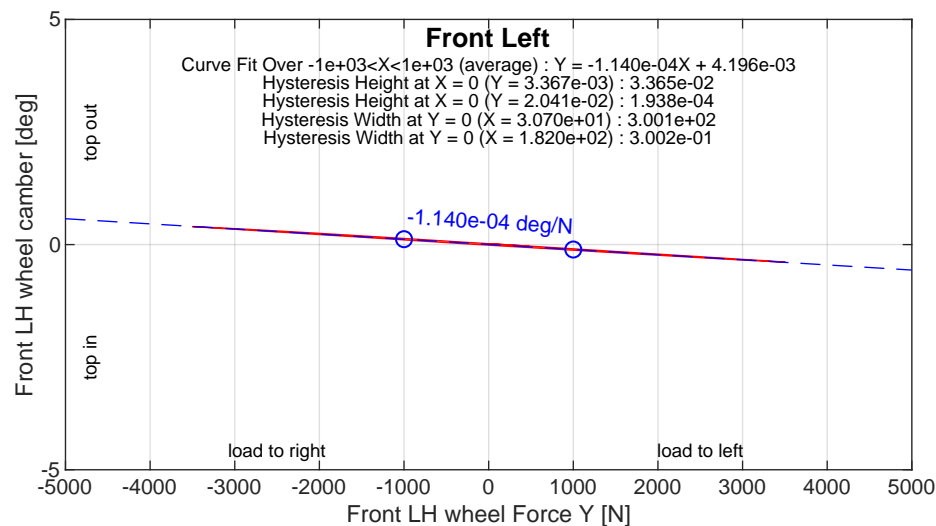
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Lateral Compliance at 0mm X offset (in phase) : Test #7 of 9
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Lateral Compliance, Parallel Audi Q5

Lateral Camber Compliance

Co-ordinate system : ISO Ground-fixed

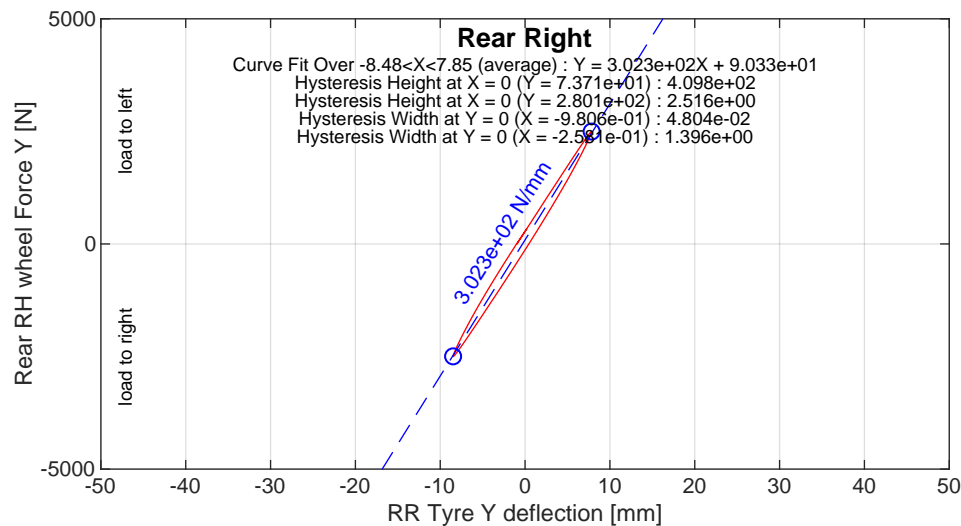
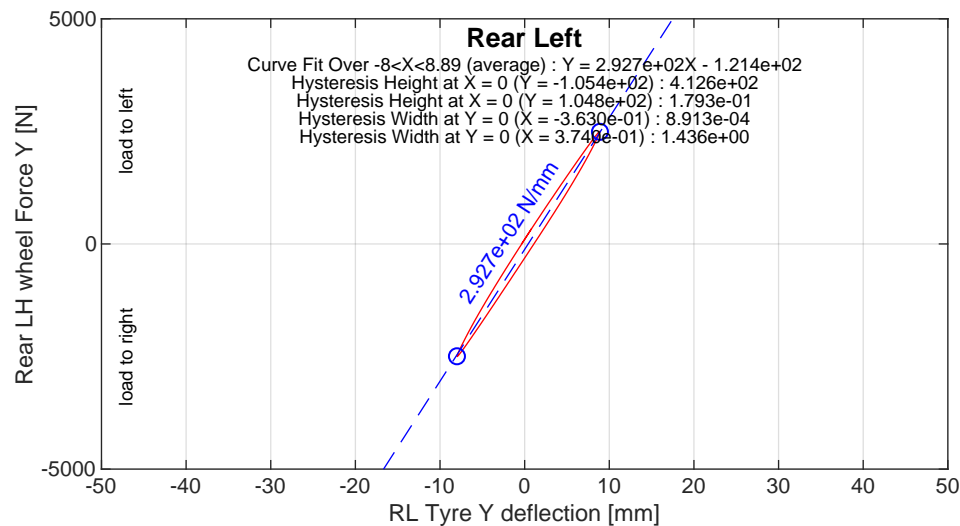
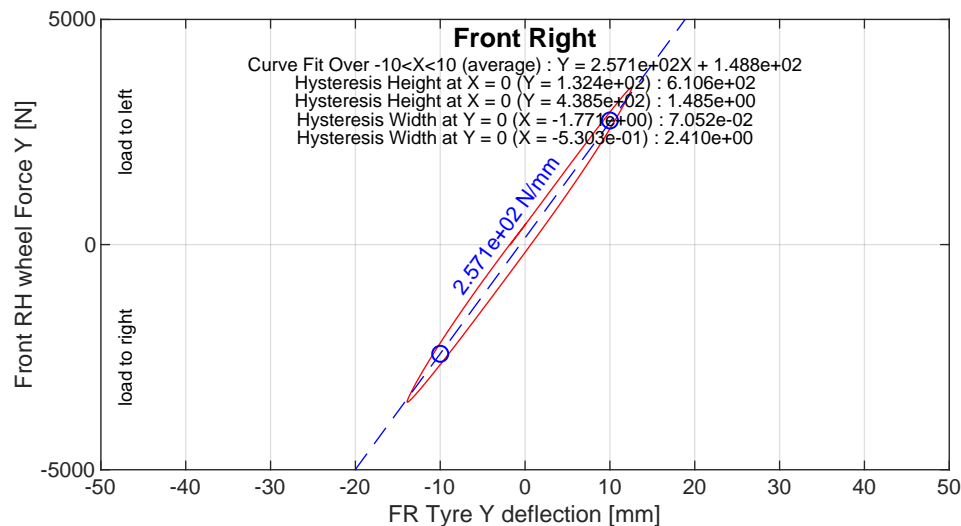
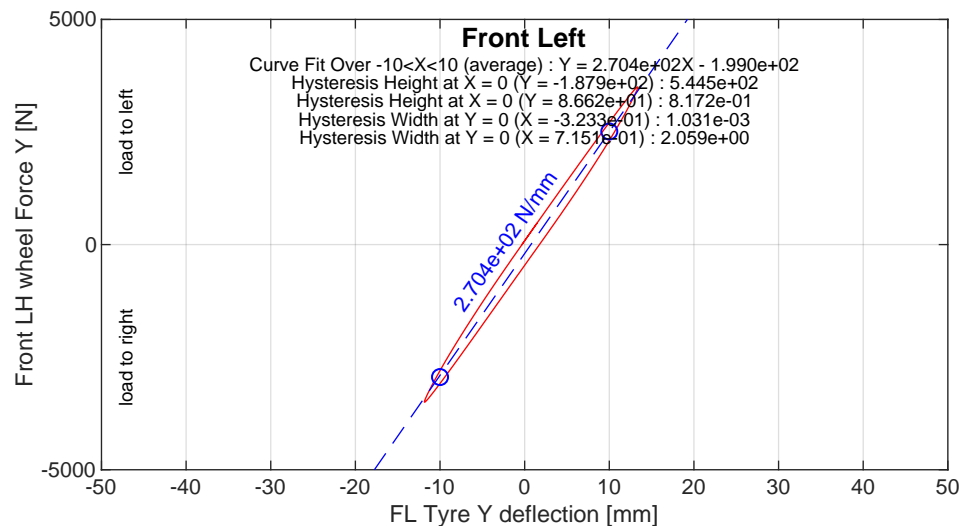
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Lateral Compliance at 0mm X offset (in phase) : Test #7 of 9
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Lateral Compliance, Parallel Audi Q5

Lateral Tyre Stiffness

Co-ordinate system : ISO Ground-fixed

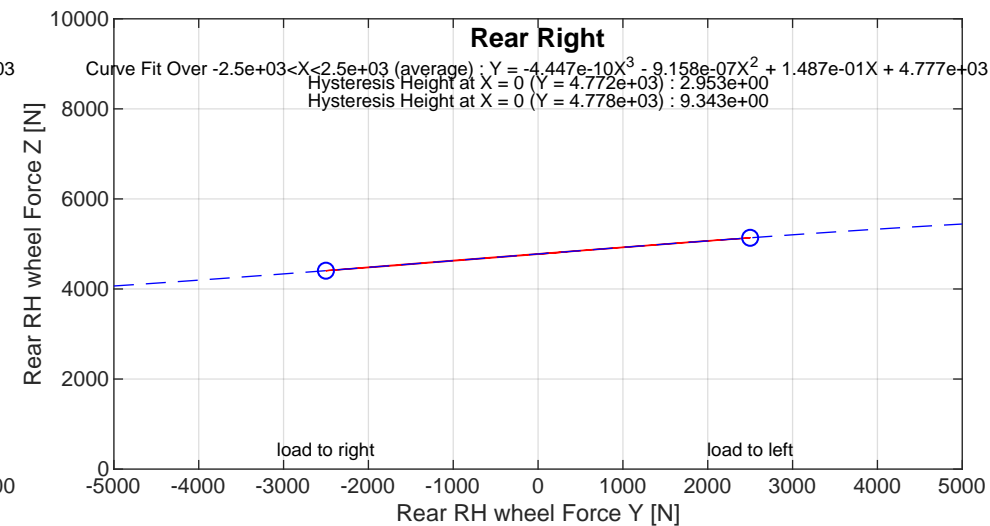
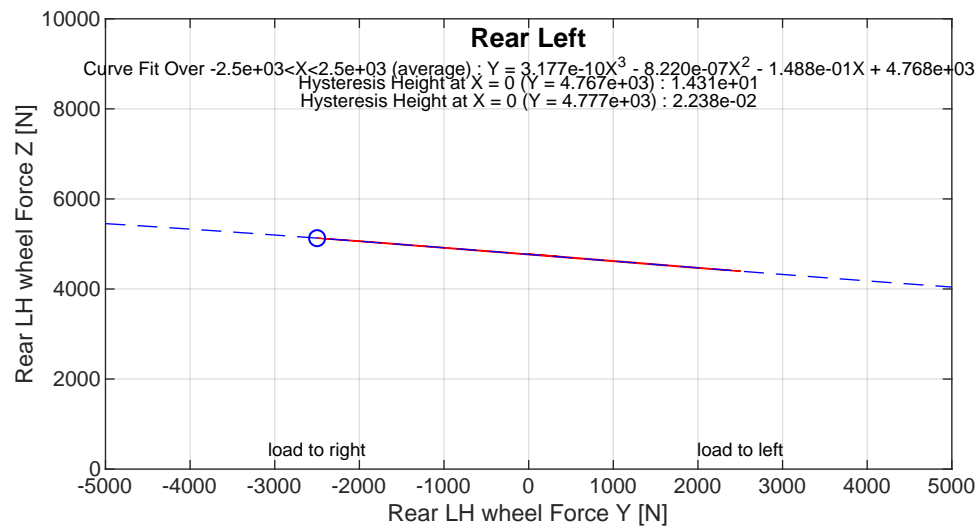
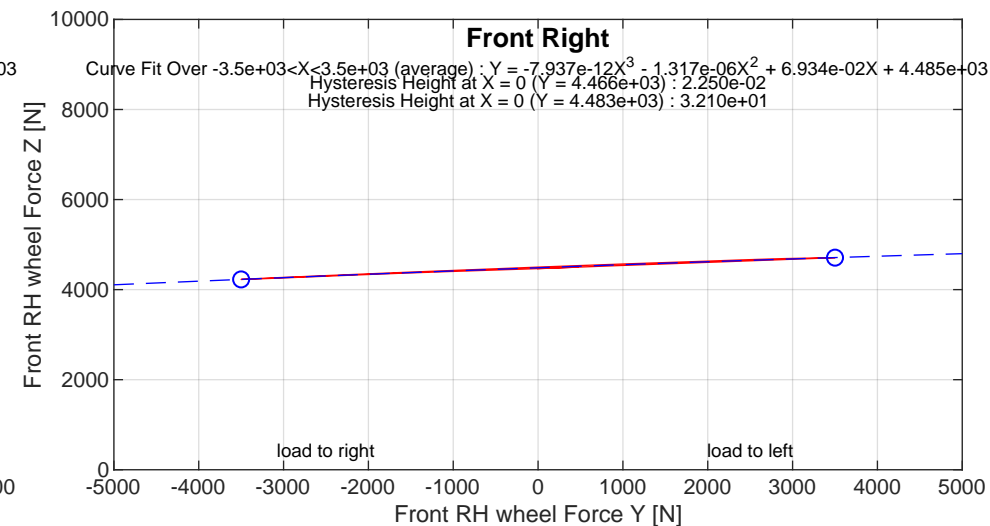
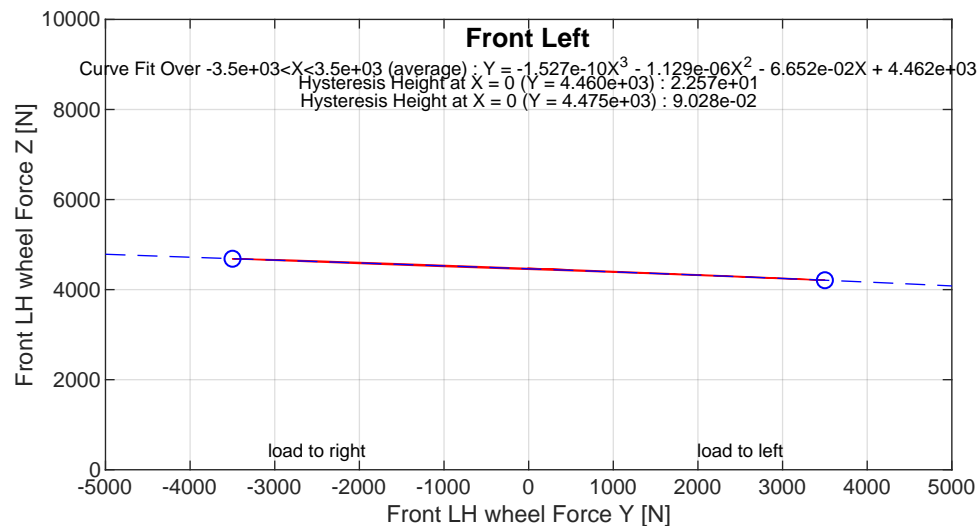
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Lateral Compliance at 0mm X offset (in phase) : Test #7 of 9
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



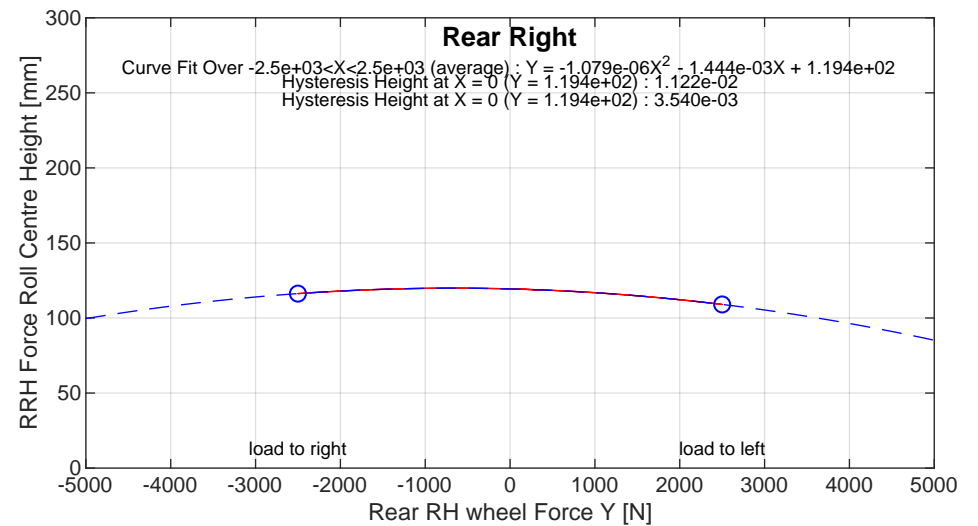
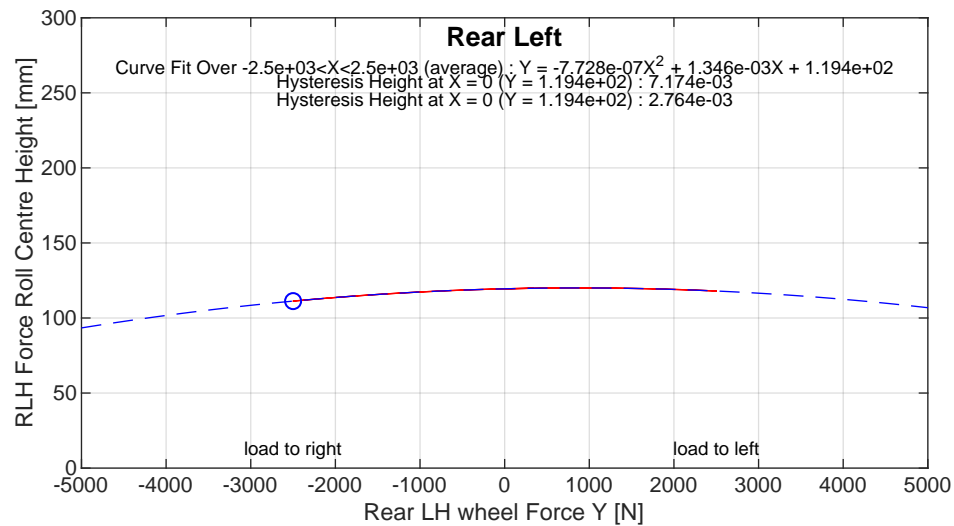
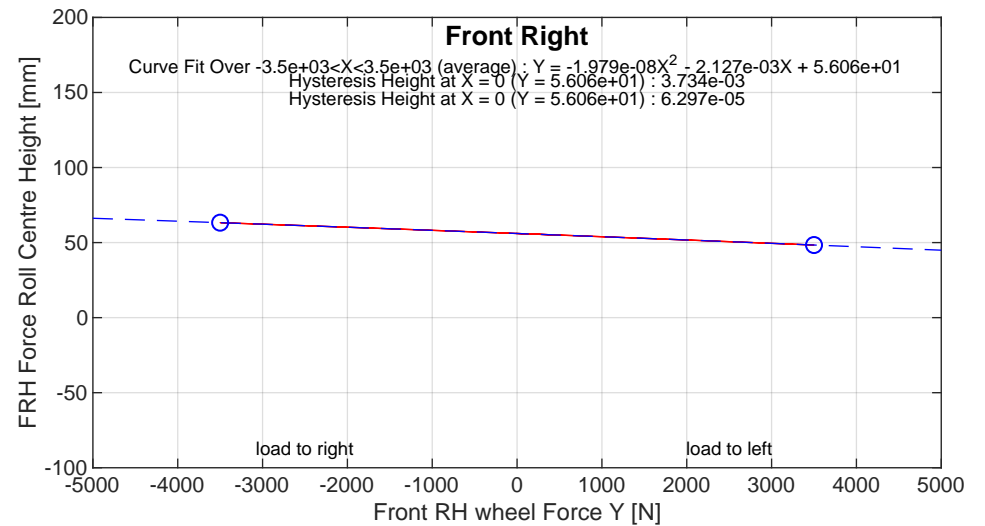
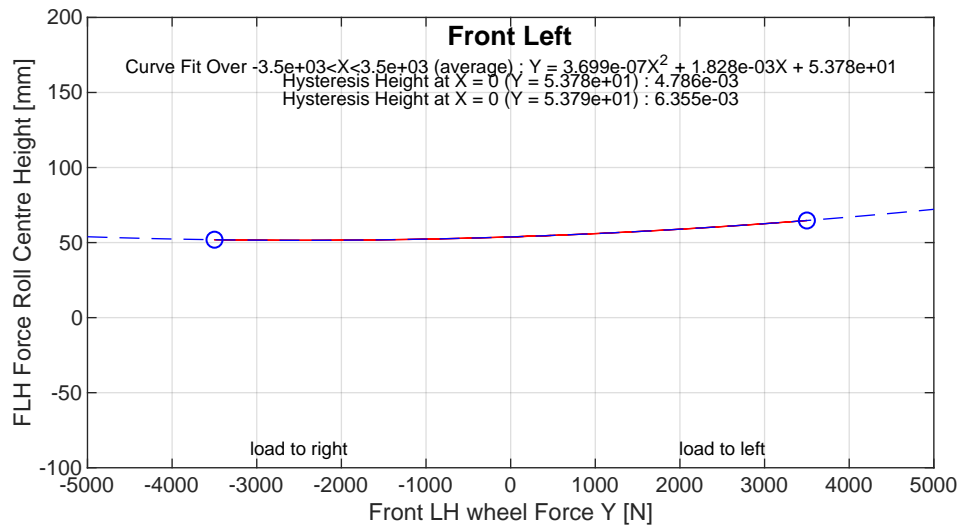
Lateral Compliance, Parallel
Audi Q5
Roll Centre Curve Fits
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Lateral Compliance at 0mm X offset (in phase) : Test #7 of 9
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



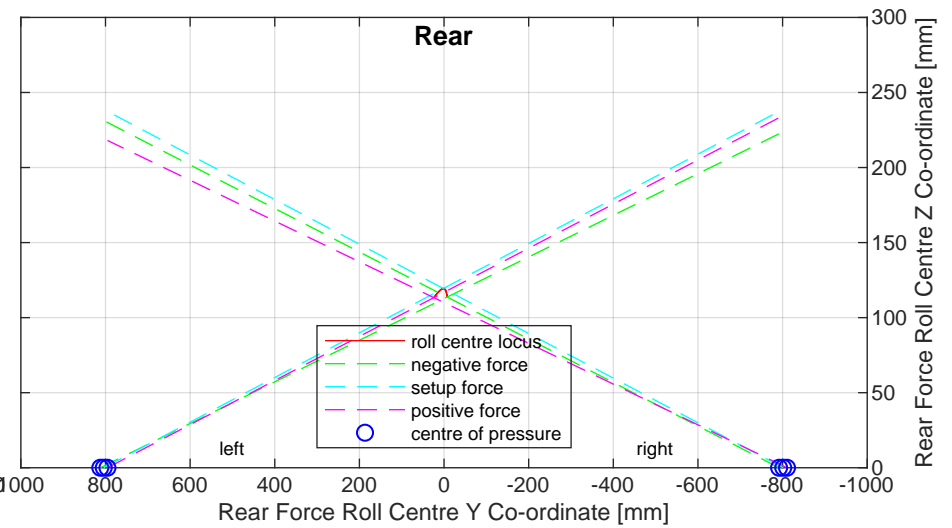
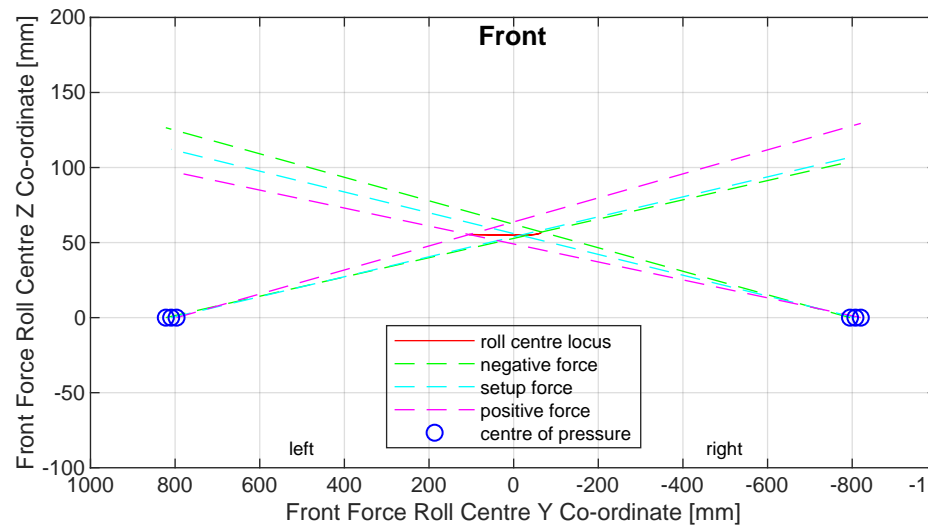
Lateral Compliance, Parallel
Audi Q5
Force Roll Centre Height
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Lateral Compliance at 0mm X offset (in phase) : Test #7 of 9
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Lateral Compliance, Parallel
Audi Q5
Force Roll Centre Locus
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Lateral Compliance at 0mm X offset (in phase) : Test #7 of 9
 Test Run #1, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31

Plotted Curve Fit Coefficients

Lateral Wheel Centre Compliance (FL/FR/RL/RR) [mm/N]:

2.564e-04	4.222e-02
2.704e-04	3.271e-02
4.043e-04	6.131e-02
4.031e-04	5.852e-02

Lateral Toe Compliance (FL/FR/RL/RR) [deg/N]:

1.118e-04	-7.782e-03
-1.177e-04	-1.026e-02
-2.631e-05	6.543e-03
2.428e-05	2.028e-03

Lateral Camber Compliance (FL/FR/RL/RR) [deg/N]:

-1.140e-04	4.196e-03
1.163e-04	5.085e-03
-1.758e-04	2.338e-03
1.713e-04	7.195e-03

Lateral Tyre Stiffness (FL/FR/RL/RR) [N/mm]:

2.704e+02	-1.990e+02
2.571e+02	1.488e+02
2.927e+02	-1.214e+02
3.023e+02	9.033e+01

Roll Centre Curve Fits (FL/FR/RL/RR) [N/N]:

-1.527e-10	-1.129e-06	-6.652e-02	4.462e+03
-7.937e-12	-1.317e-06	6.934e-02	4.485e+03
3.177e-10	-8.220e-07	-1.488e-01	4.768e+03
-4.447e-10	-9.158e-07	1.487e-01	4.777e+03

Force Roll Centre Height (FL/FR/RL/RR) [mm/N]:

3.699e-07	1.828e-03	5.378e+01
-1.979e-08	-2.127e-03	5.606e+01
-7.728e-07	1.346e-03	1.194e+02
-1.079e-06	-1.444e-03	1.194e+02

Calculated Parameters

Force Roll Centre Heights (FL/FR/RL/RR) [mm]:

5.379e+01

5.605e+01

1.194e+02

1.194e+02

Force Roll Center Height (F/R) [mm]:

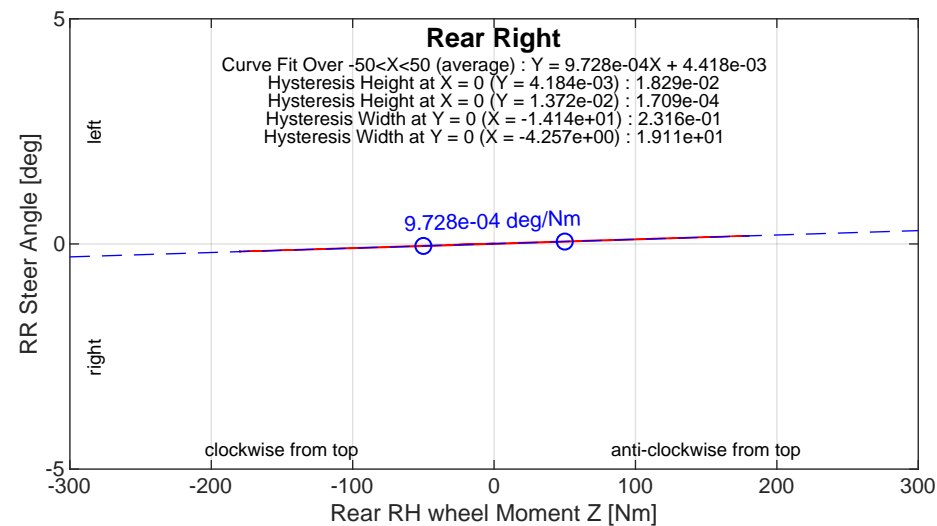
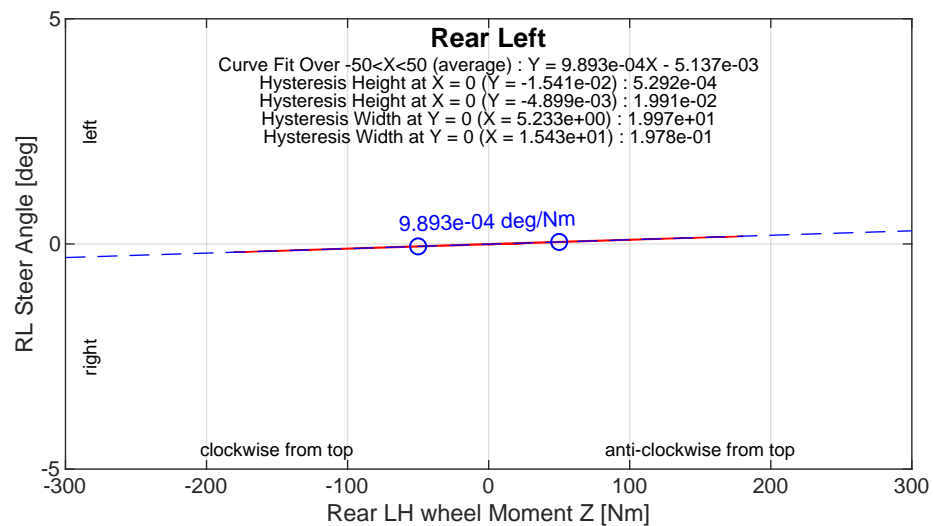
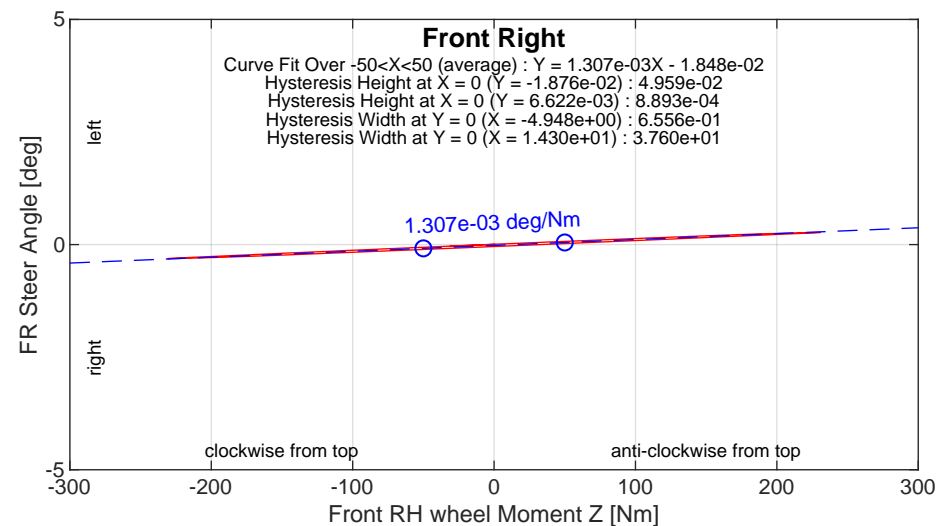
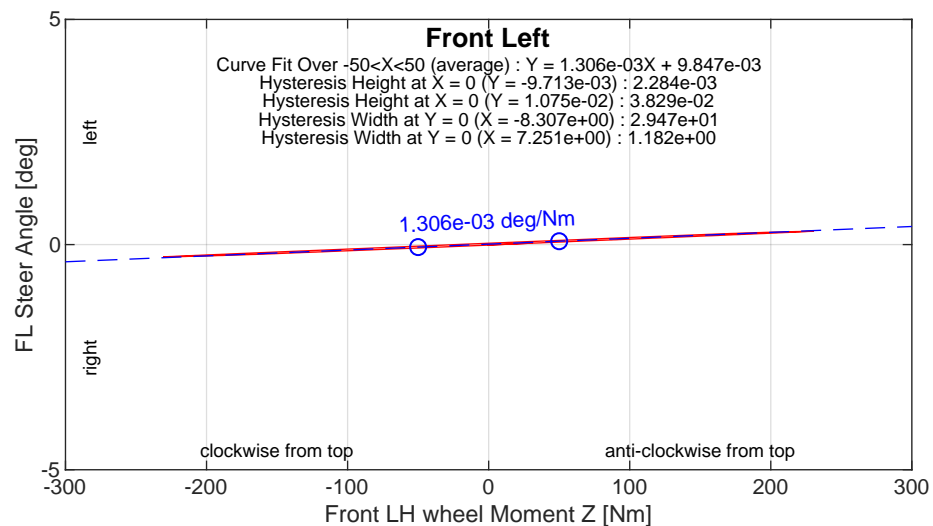
5.490e+01

1.194e+02

Force Roll Center Lateral Offset (F/R) [mm]:

-1.575e+01

1.537e+00



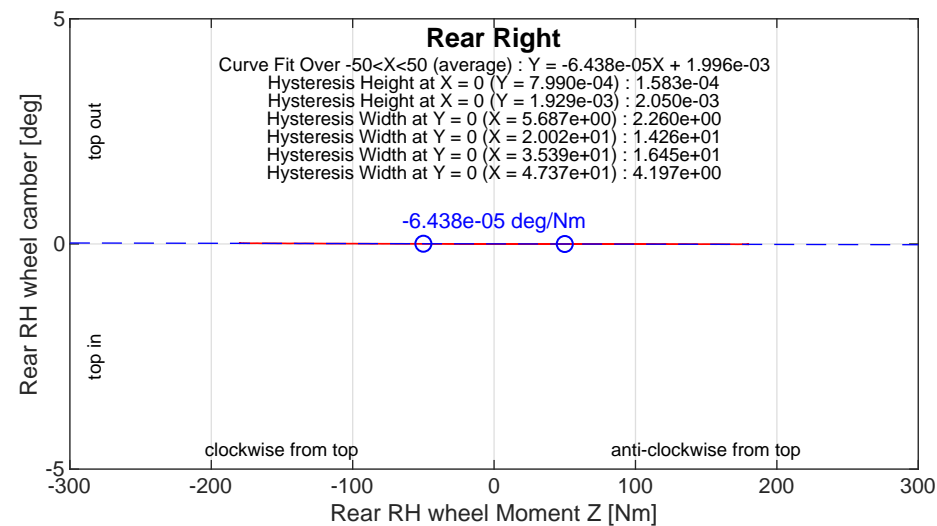
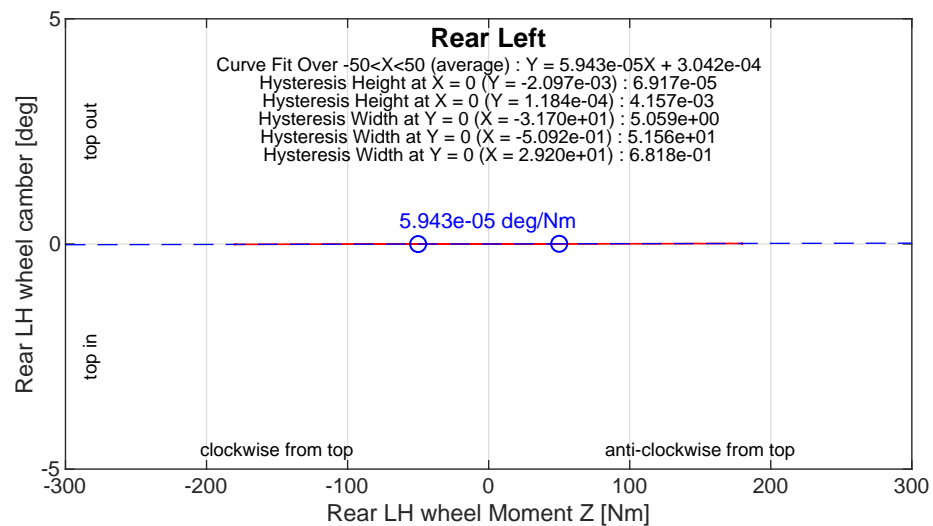
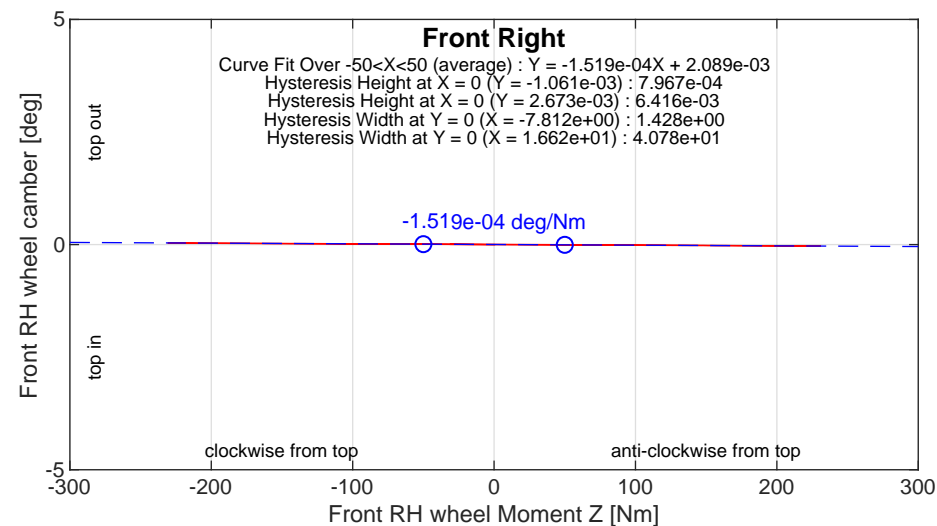
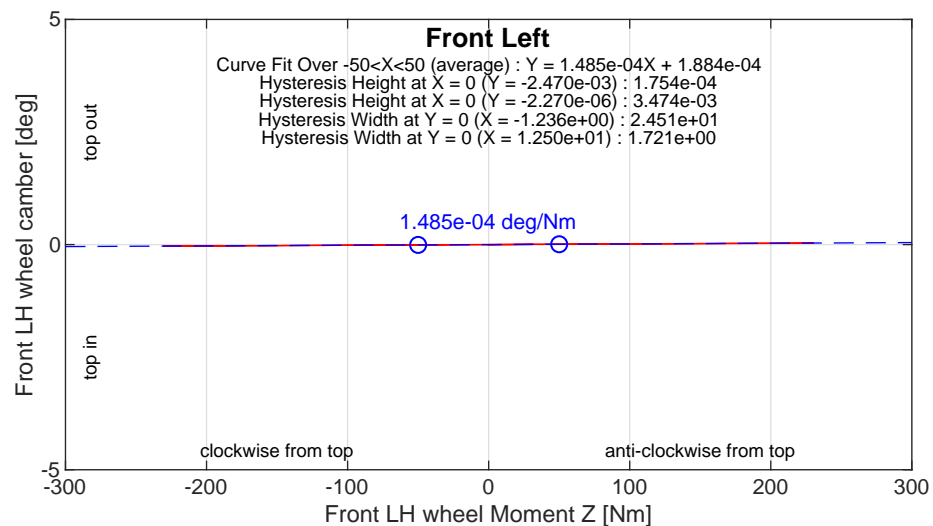
Toe Compliance, Opposed
Audi Q5
Toe Compliance
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Aligning Torque Compliance (anti-phase) : Test #8 of 9
 Test Run #2, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



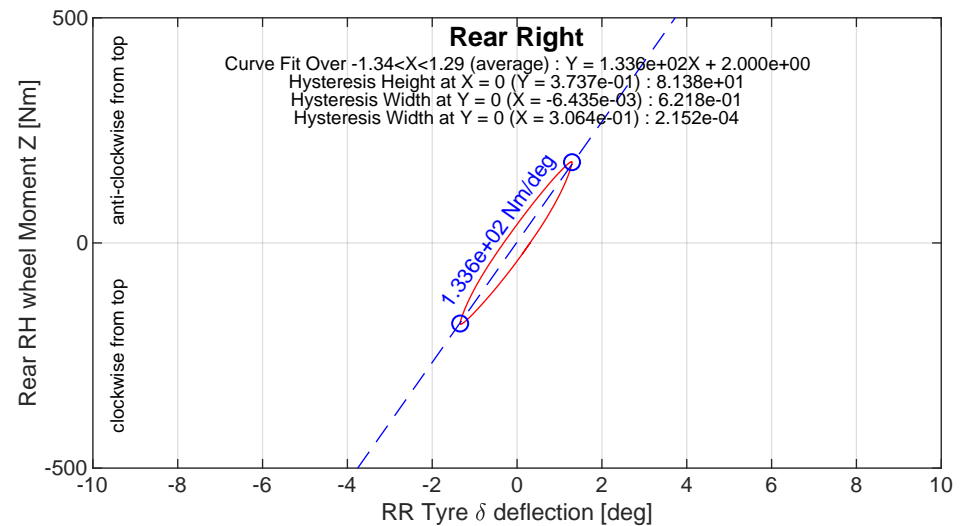
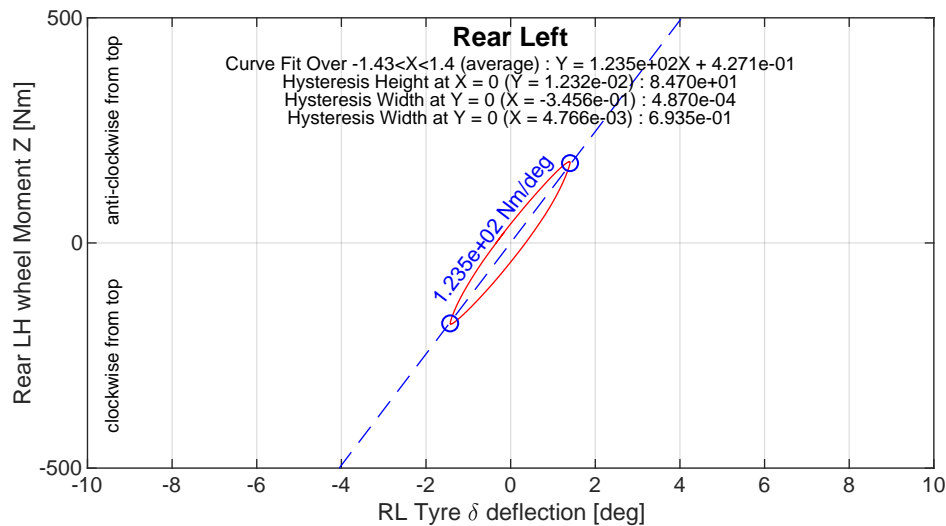
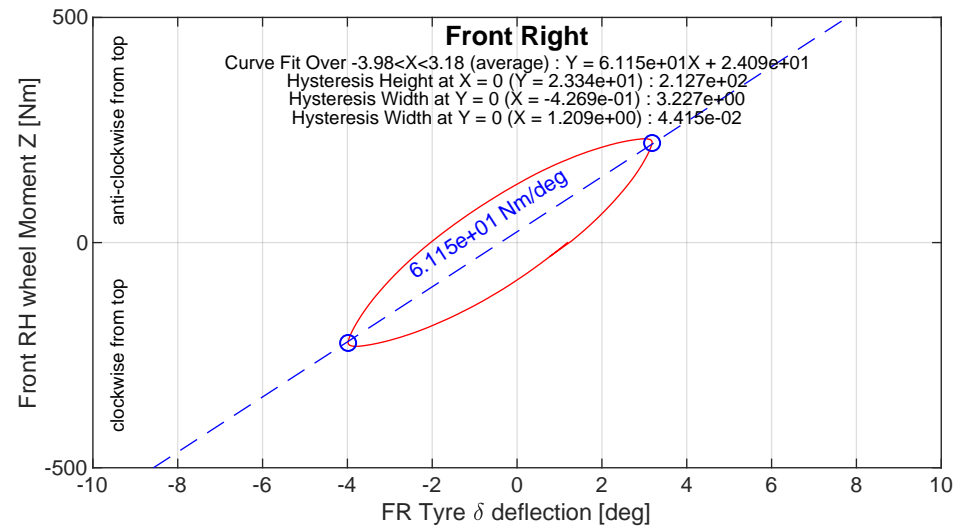
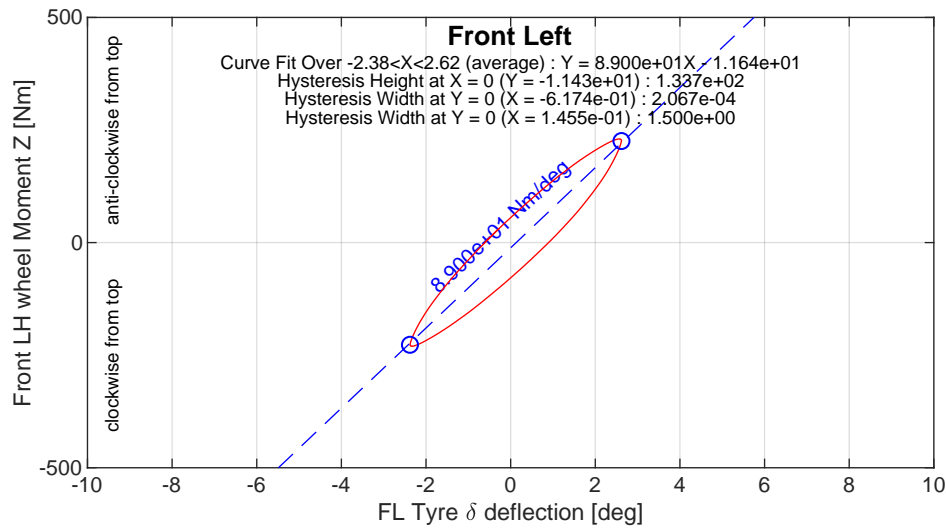
Toe Compliance, Opposed
Audi Q5
Camber Compliance
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Aligning Torque Compliance (anti-phase) : Test #8 of 9
Test Run #2, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Toe Compliance, Opposed
Audi Q5
Tyre Aligning Stiffness
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 4 : Standard K&C test - Validation
Aligning Torque Compliance (anti-phase) : Test #8 of 9
Test Run #2, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : Yes
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31

Plotted Curve Fit Coefficients

Toe Compliance (FL/FR/RL/RR) [deg/Nm]:

1.306e-03	9.847e-03
1.307e-03	-1.848e-02
9.893e-04	-5.137e-03
9.728e-04	4.418e-03

Camber Compliance (FL/FR/RL/RR) [deg/Nm]:

1.485e-04	1.884e-04
-1.519e-04	2.089e-03
5.943e-05	3.042e-04
-6.438e-05	1.996e-03

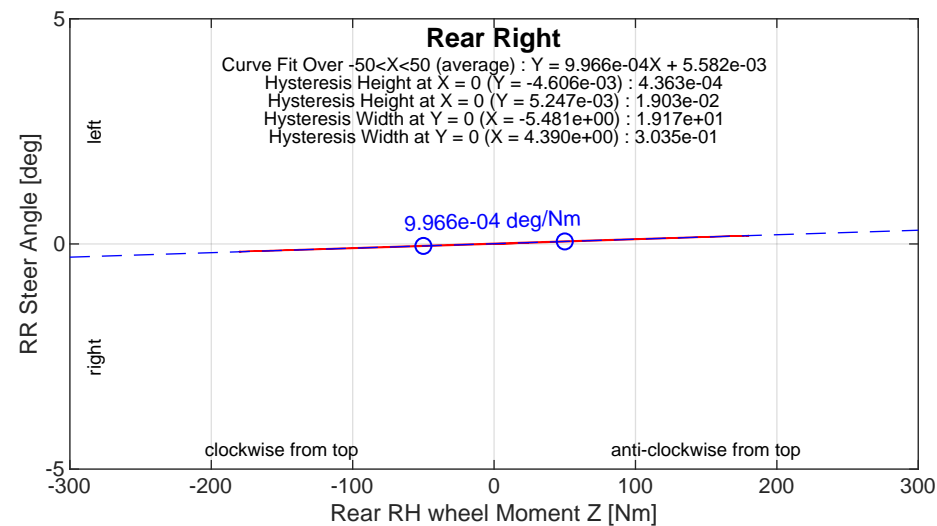
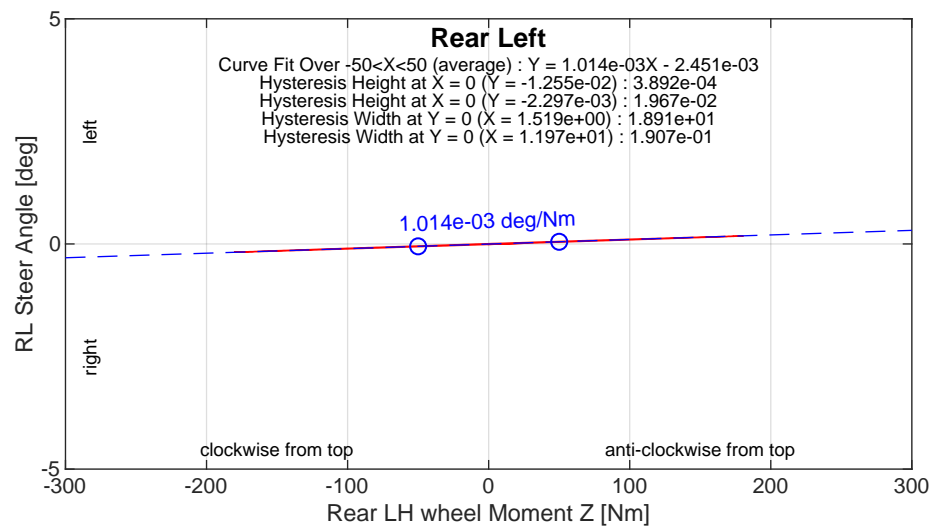
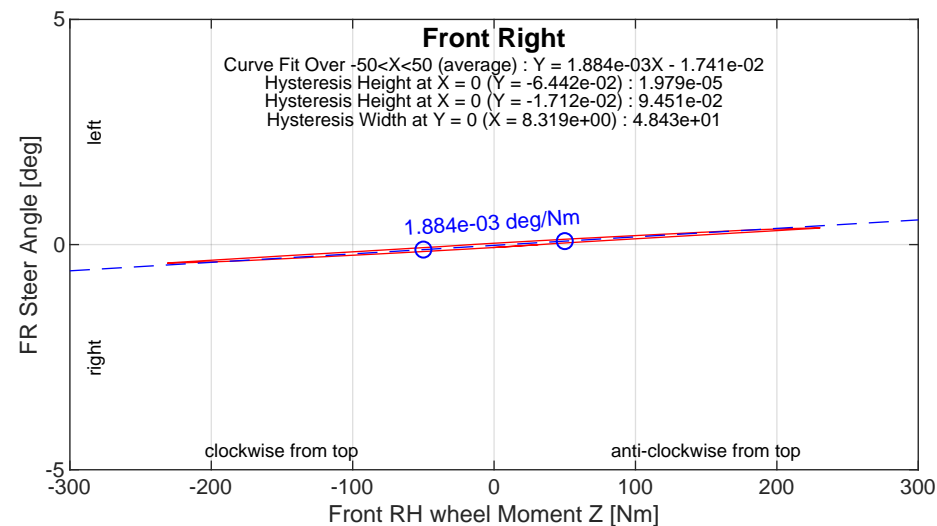
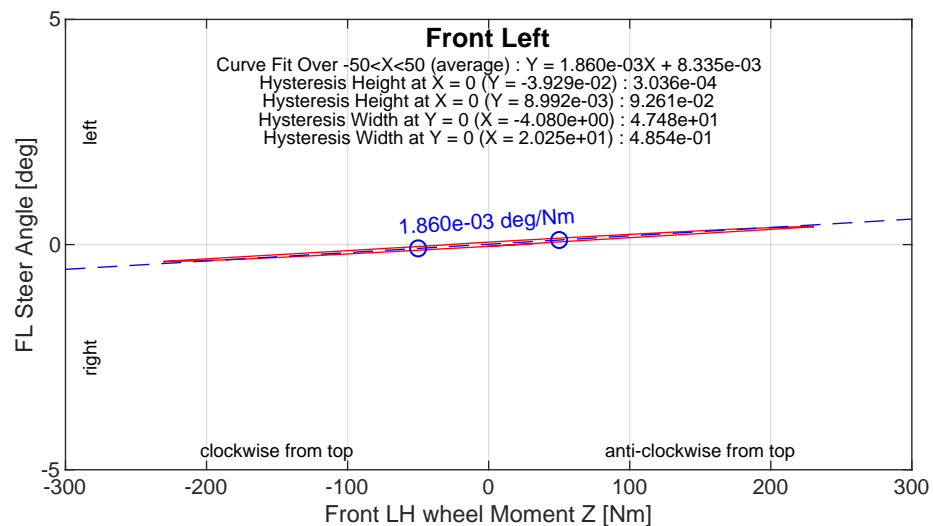
Tyre Aligning Stiffness (FL/FR/RL/RR) [Nm/deg]:

8.900e+01	-1.164e+01
6.115e+01	2.409e+01
1.235e+02	4.271e-01
1.336e+02	2.000e+00

Calculated Parameters

Aligning Torque Compliance (FL/FR/RL/RR) [deg/Nm]:

1.303e-03
1.305e-03
9.900e-04
9.722e-04



Toe Compliance, Parallel

Audi Q5

Toe Compliance

Co-ordinate system : ISO Ground-fixed

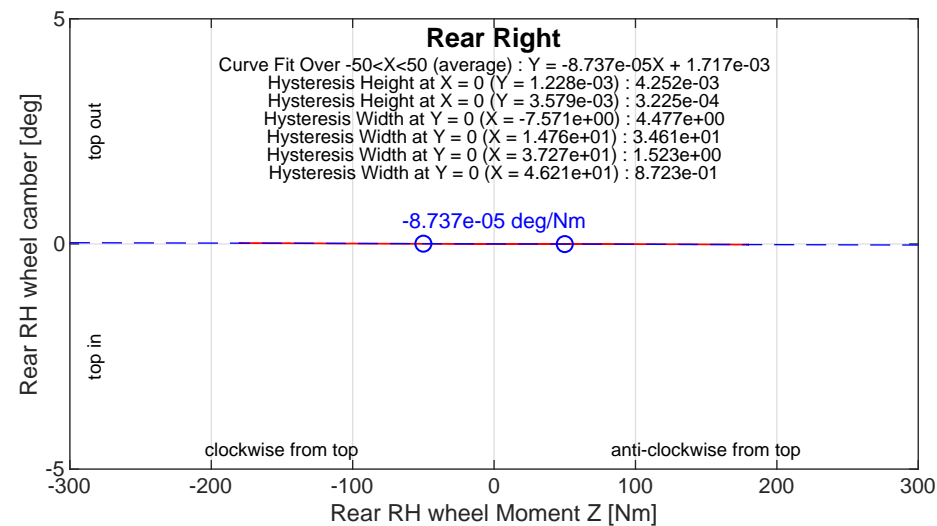
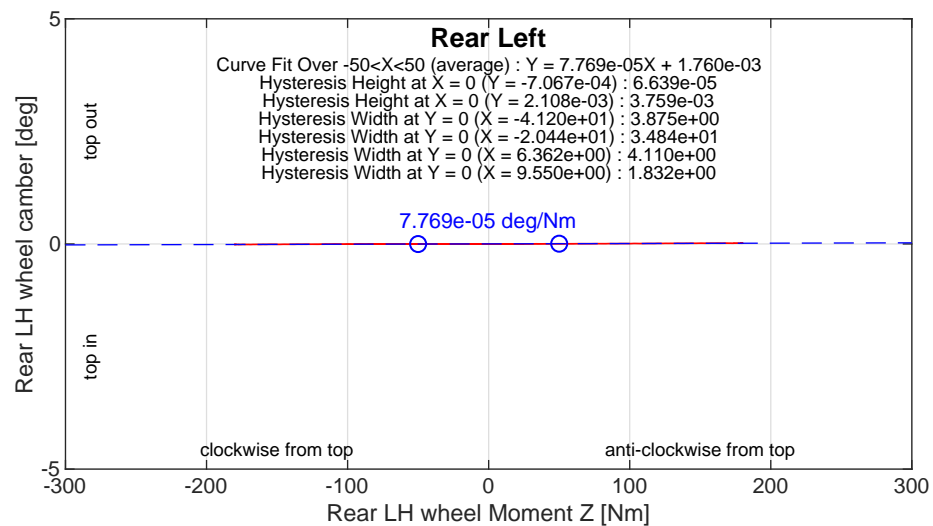
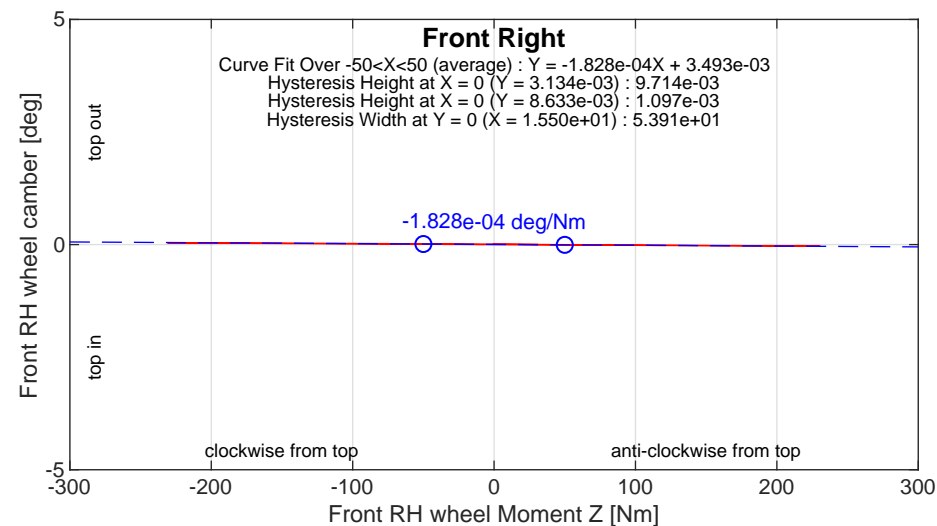
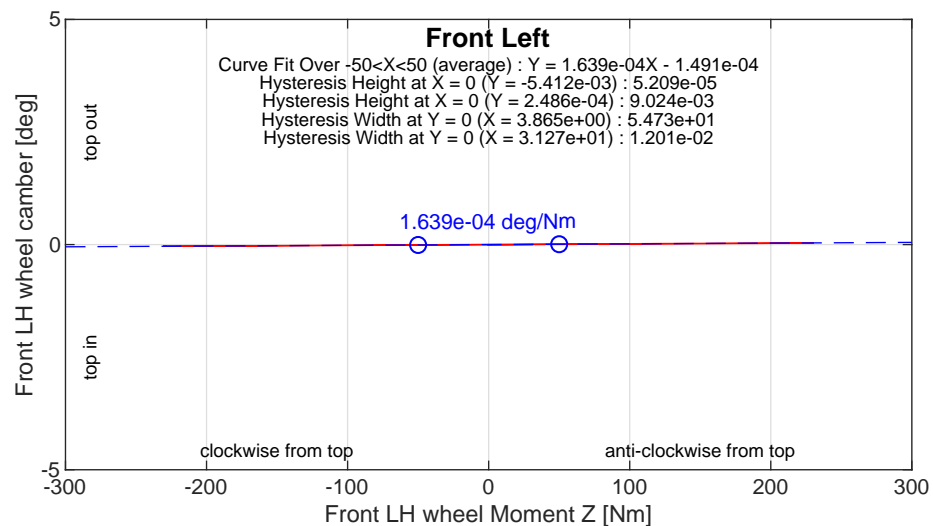
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Aligning Torque Compliance (in phase) : Test #9 of 9
 Test Run #1, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



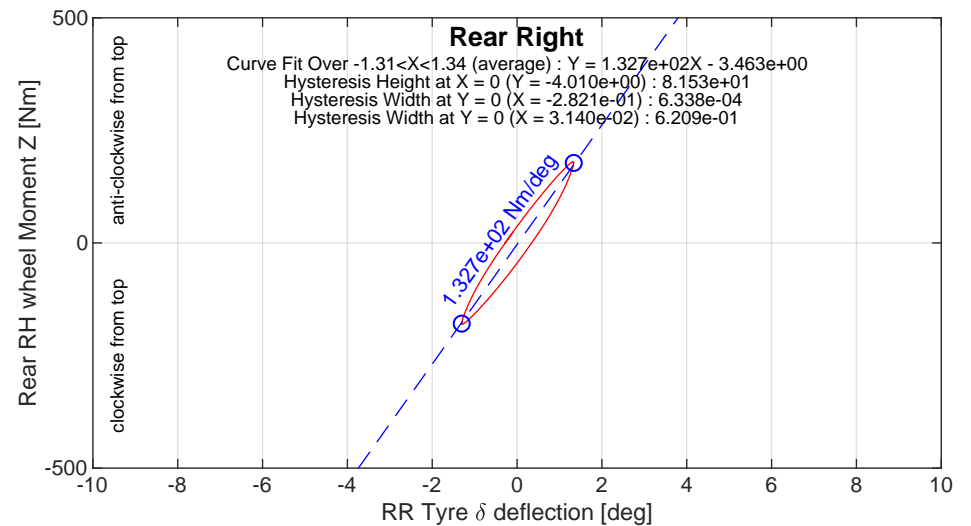
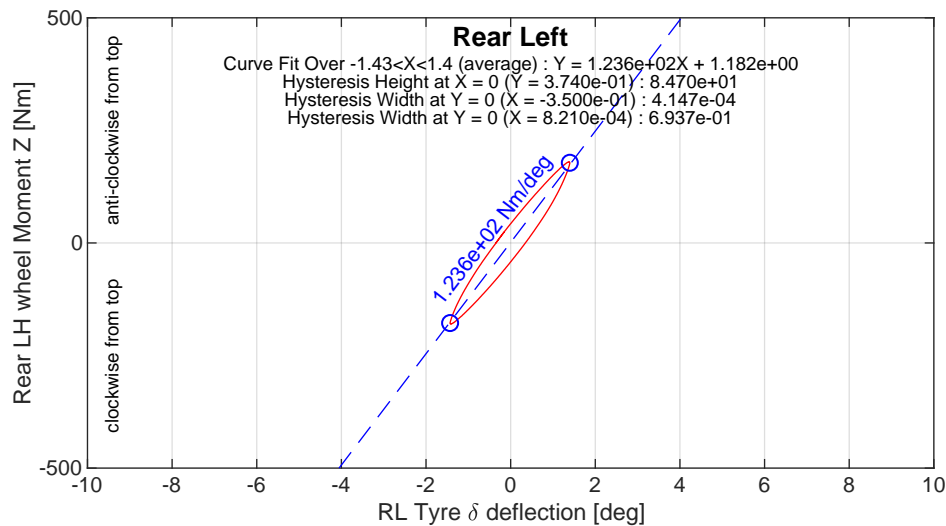
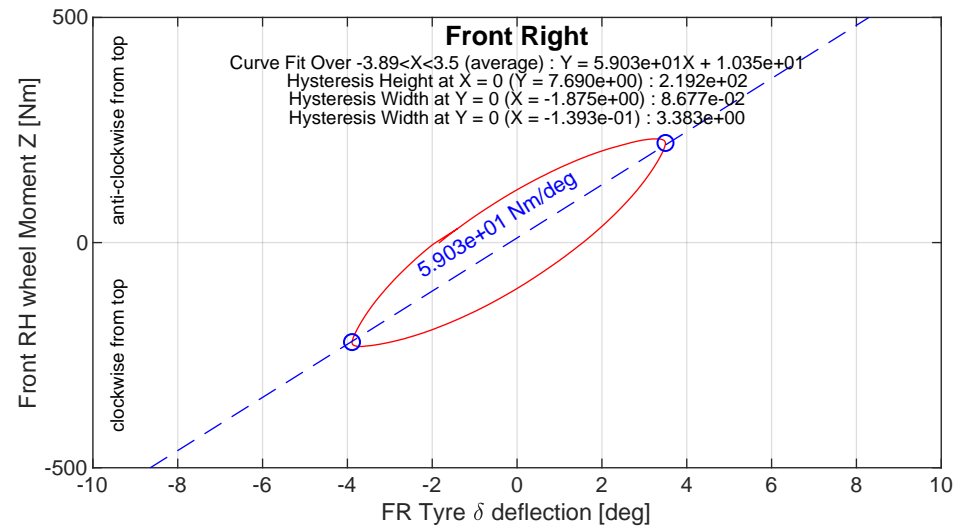
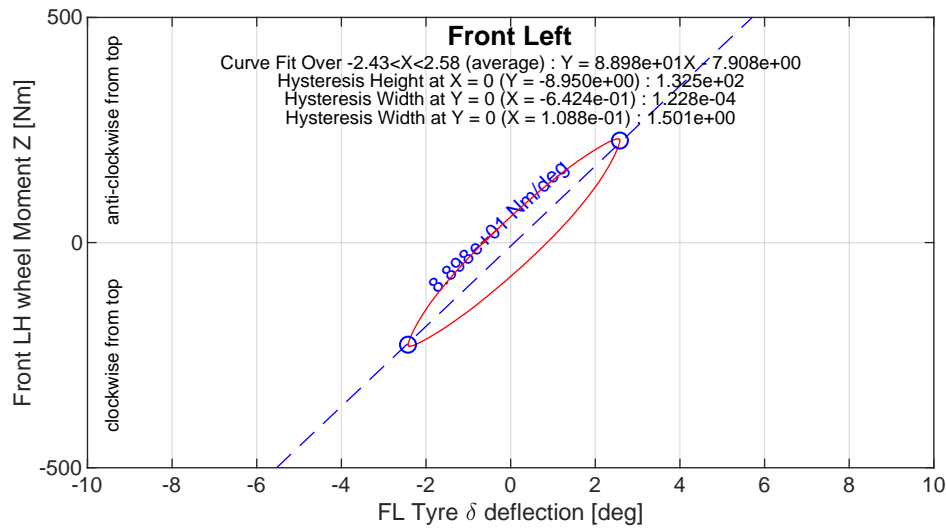
Toe Compliance, Parallel
Audi Q5
Camber Compliance
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Aligning Torque Compliance (in phase) : Test #9 of 9
 Test Run #1, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



Toe Compliance, Parallel
Audi Q5
Tyre Aligning Stiffness
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 4 : Standard K&C test - Validation
 Aligning Torque Compliance (in phase) : Test #9 of 9
 Test Run #1, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : Yes
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31

Plotted Curve Fit Coefficients

Toe Compliance (FL/FR/RL/RR) [deg/Nm]:

1.860e-03	8.335e-03
1.884e-03	-1.741e-02
1.014e-03	-2.451e-03
9.966e-04	5.582e-03

Camber Compliance (FL/FR/RL/RR) [deg/Nm]:

1.639e-04	-1.491e-04
-1.828e-04	3.493e-03
7.769e-05	1.760e-03
-8.737e-05	1.717e-03

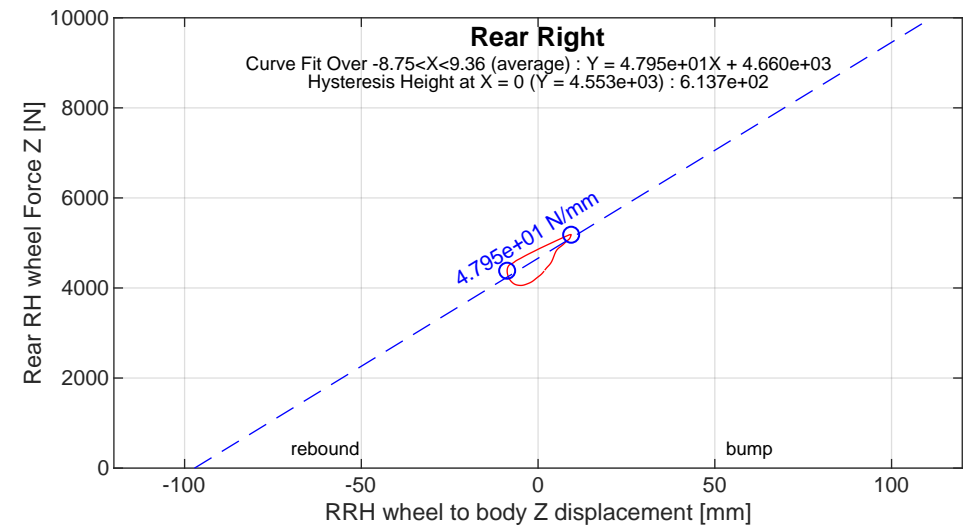
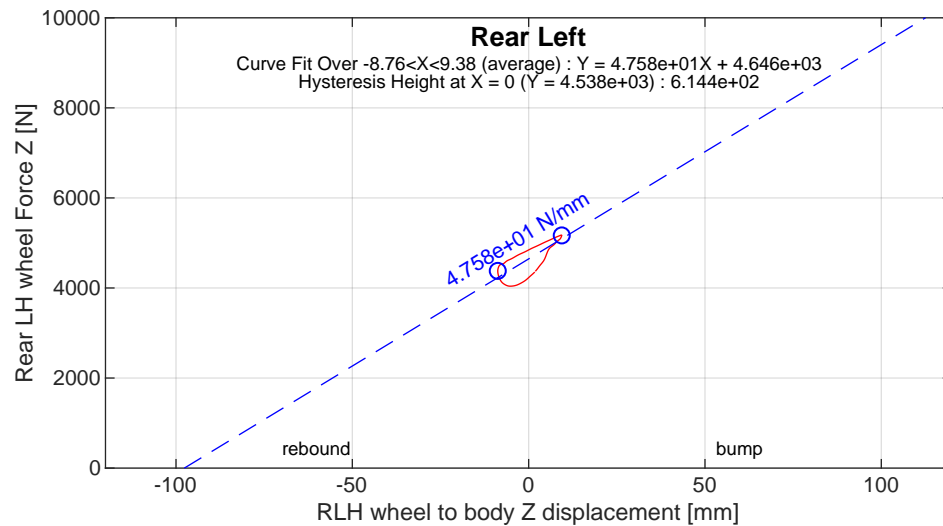
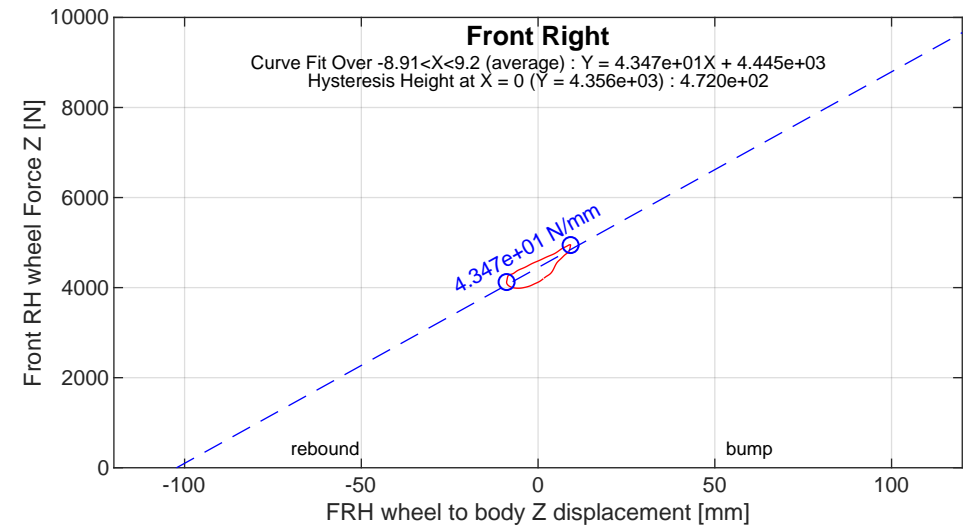
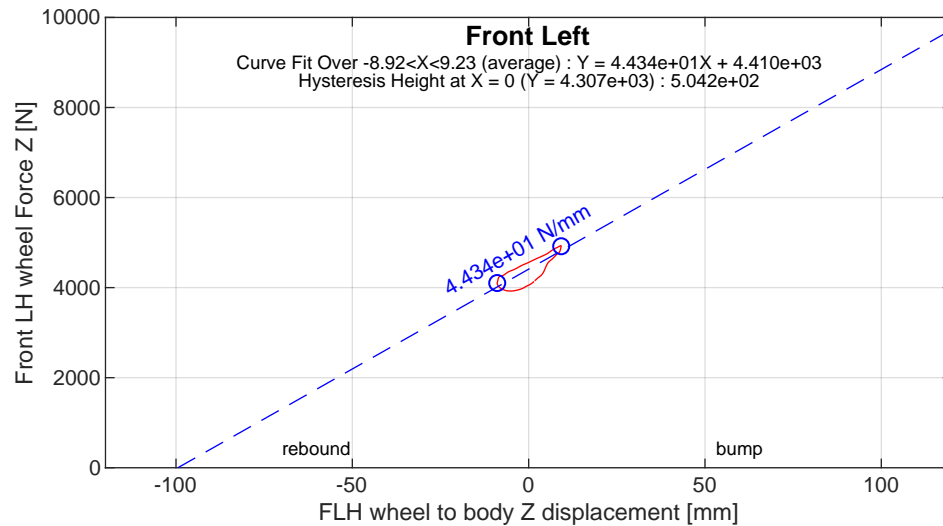
Tyre Aligning Stiffness (FL/FR/RL/RR) [Nm/deg]:

8.898e+01	-7.908e+00
5.903e+01	1.035e+01
1.236e+02	1.182e+00
1.327e+02	-3.463e+00

Calculated Parameters

Aligning Torque Compliance (FL/FR/RL/RR) [deg/Nm]:

1.859e-03
1.880e-03
1.015e-03
9.967e-04



Bounce Audi Q5 Wheel Rates

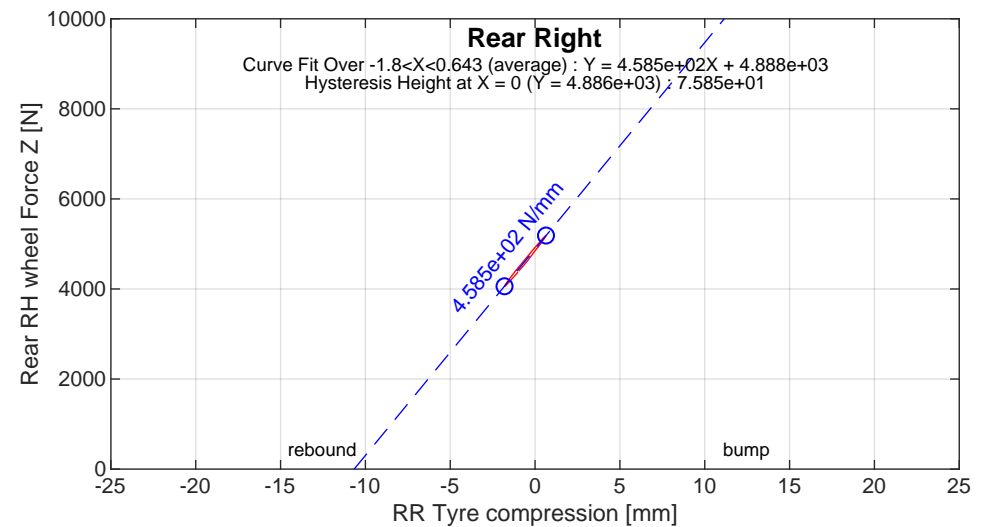
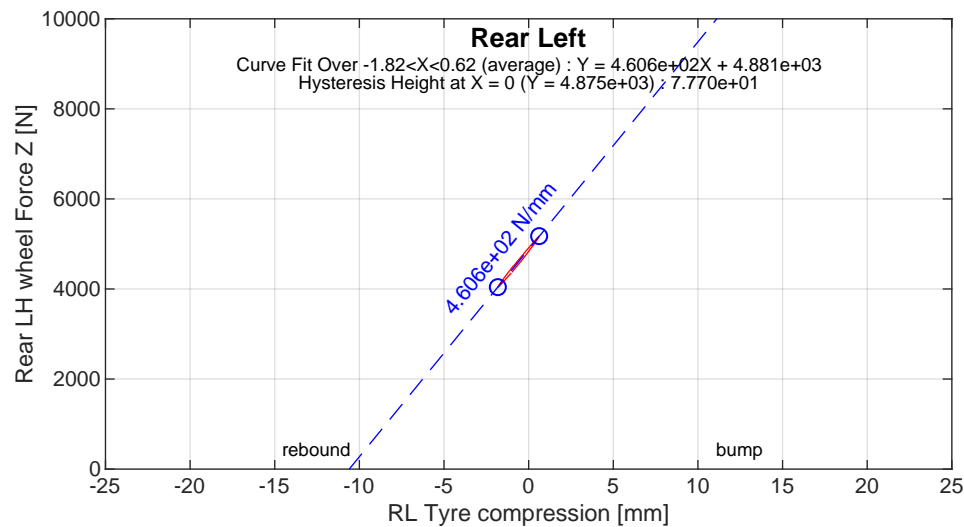
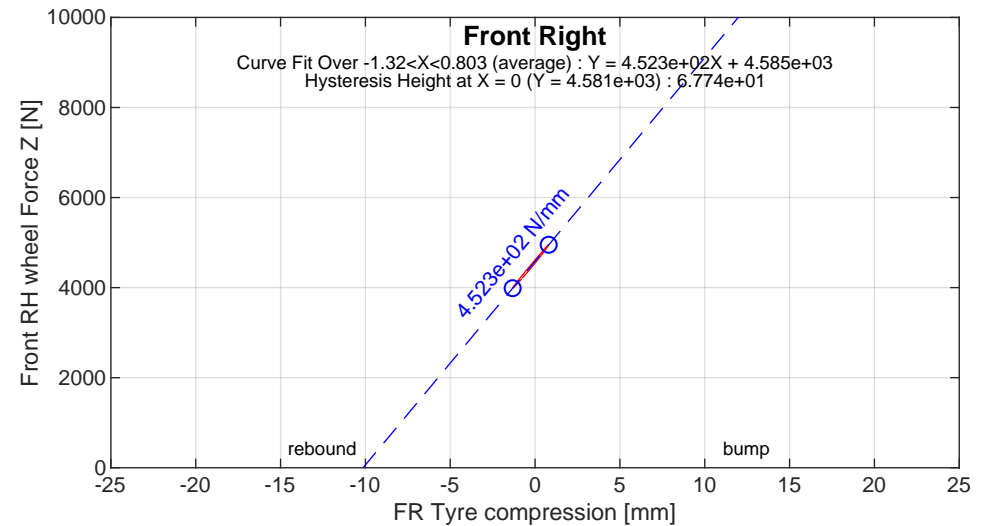
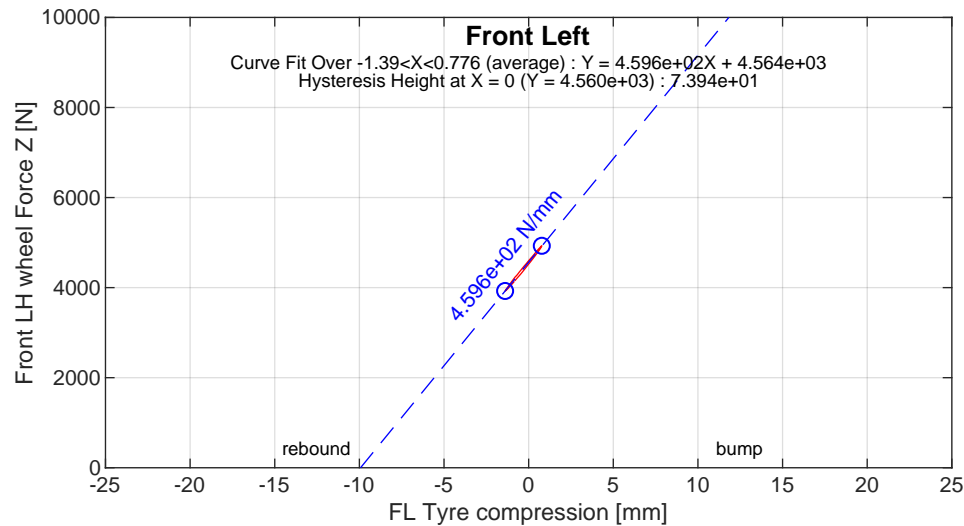
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1Hz) : Test #1 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Tyre Radial Rates

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (1Hz) : Test #1 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 1 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

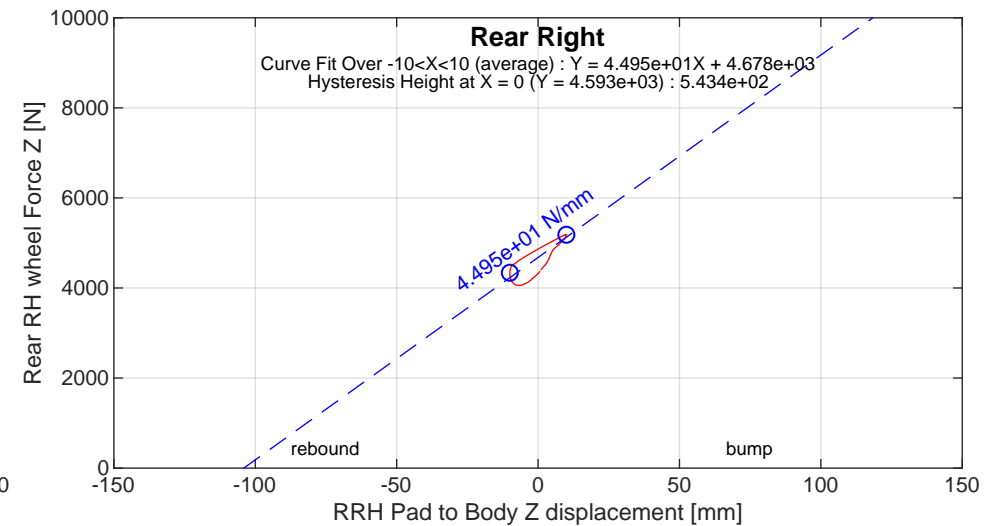
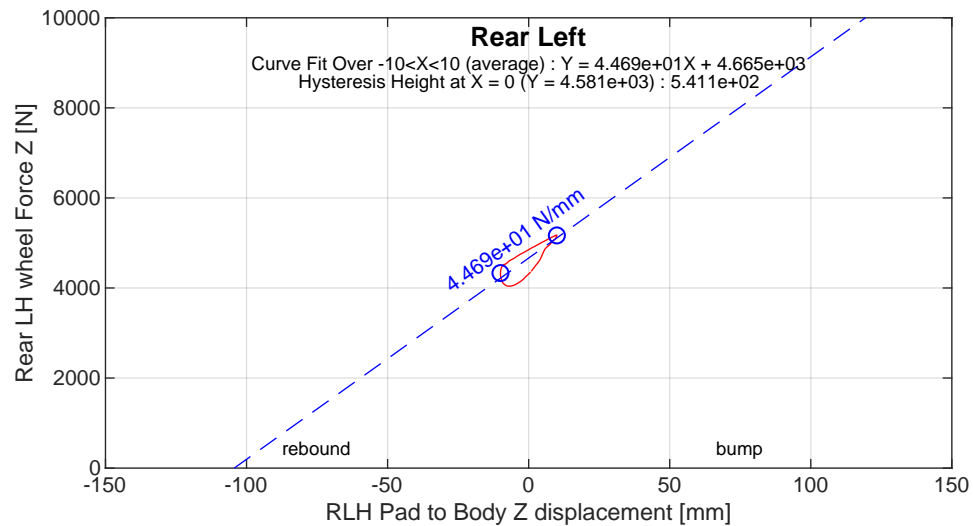
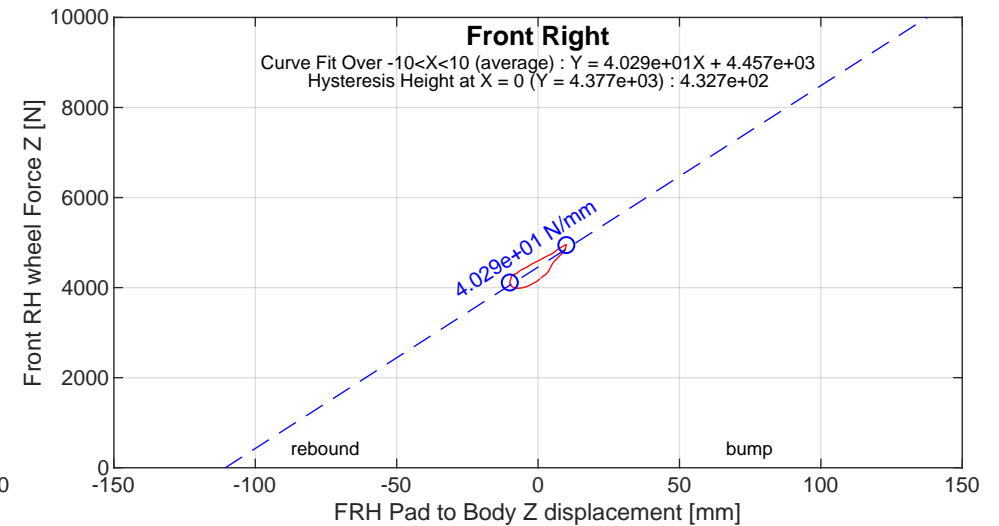
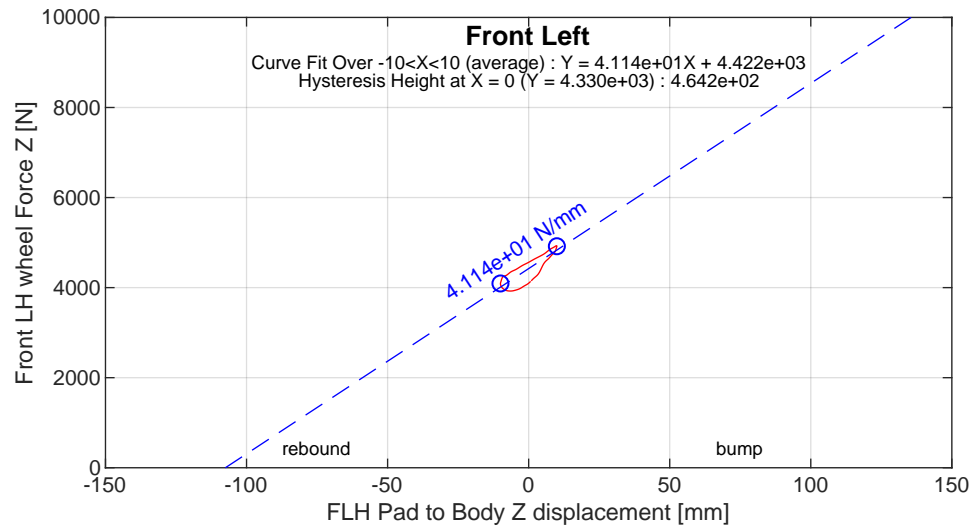
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce Audi Q5 Ride Rates

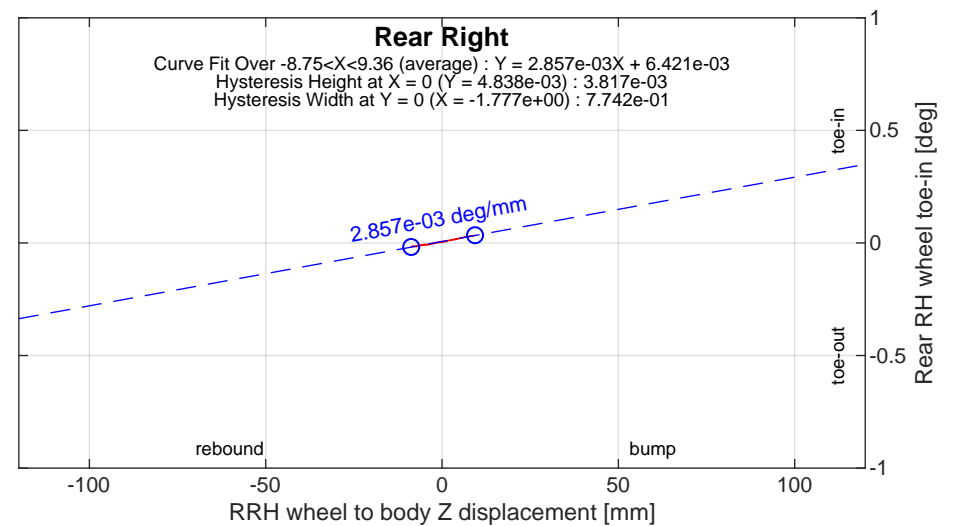
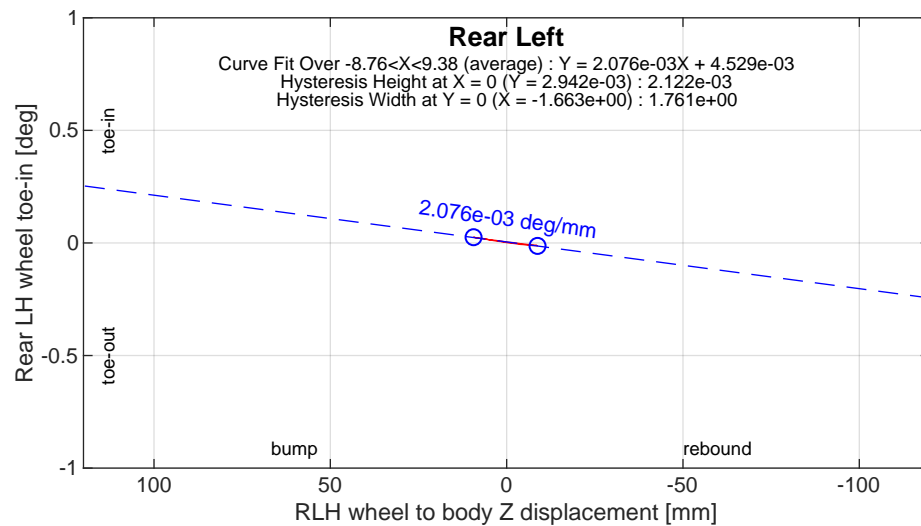
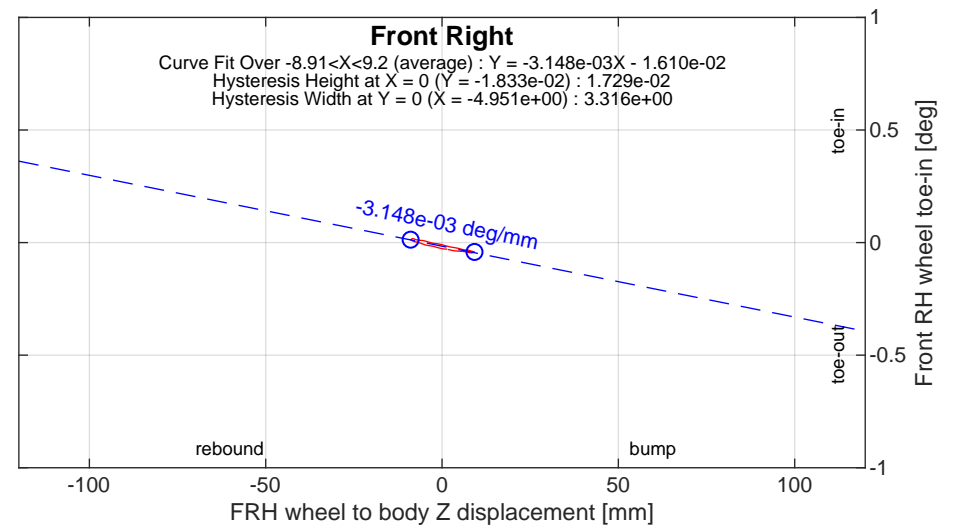
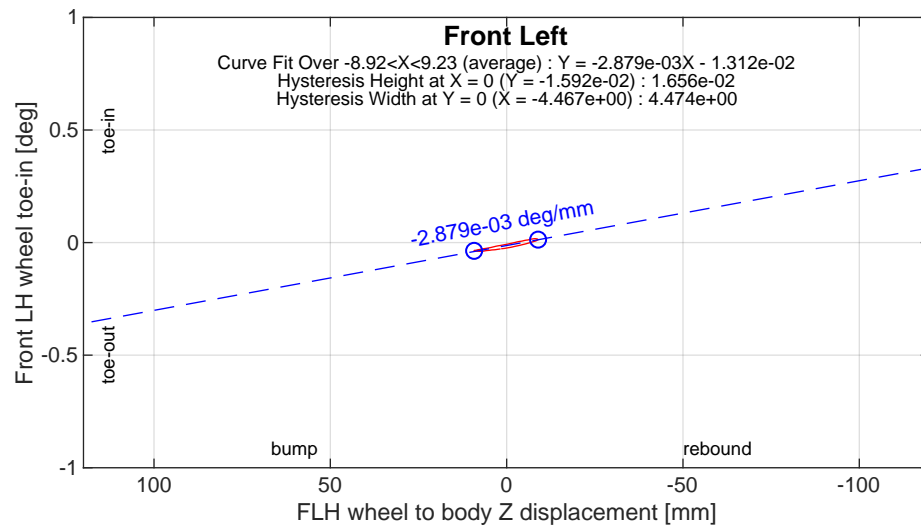
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1Hz) : Test #1 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Bump Steer

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (1Hz) : Test #1 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 1 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

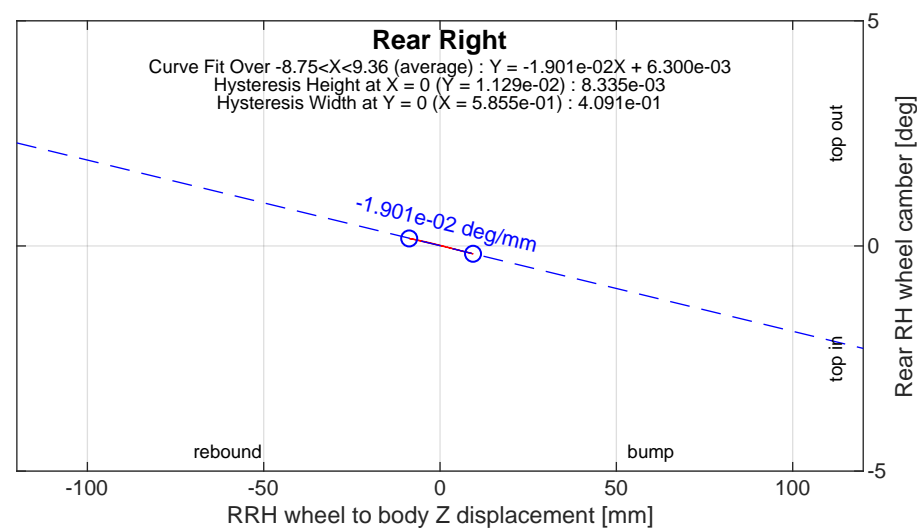
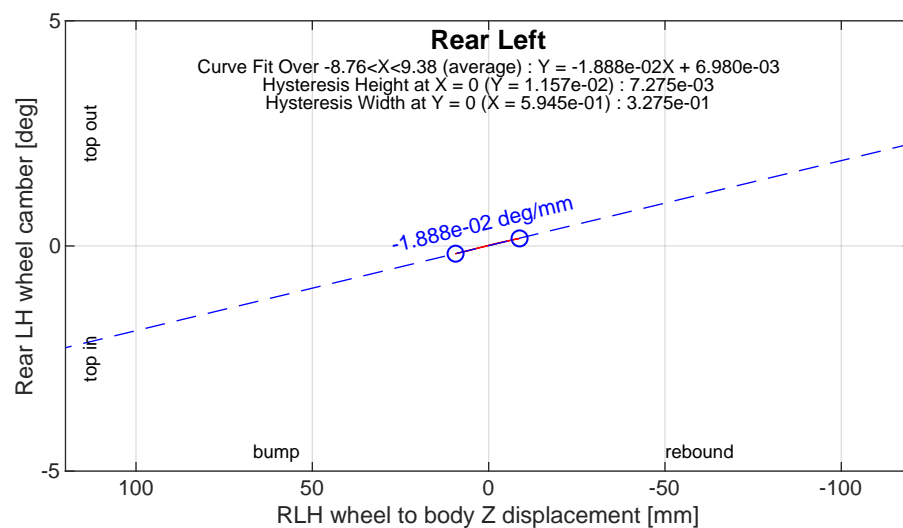
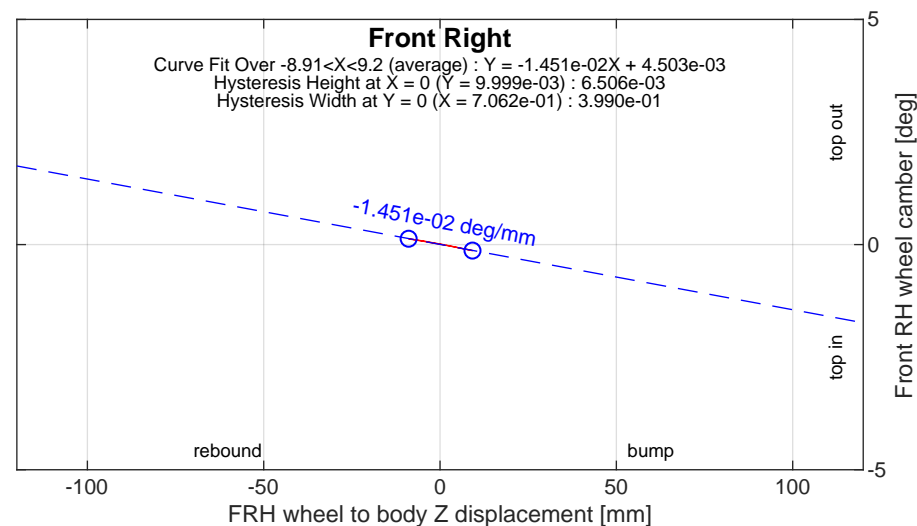
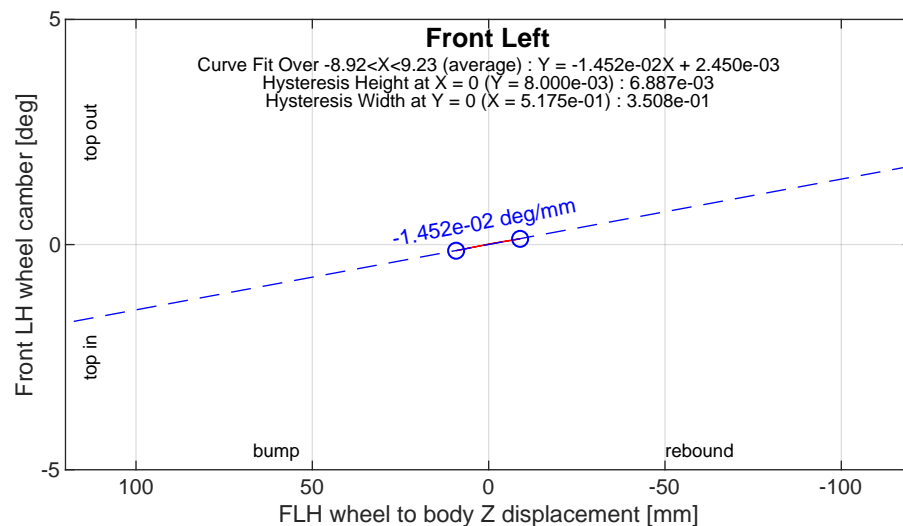
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Bump Camber

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (1Hz) : Test #1 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 1 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

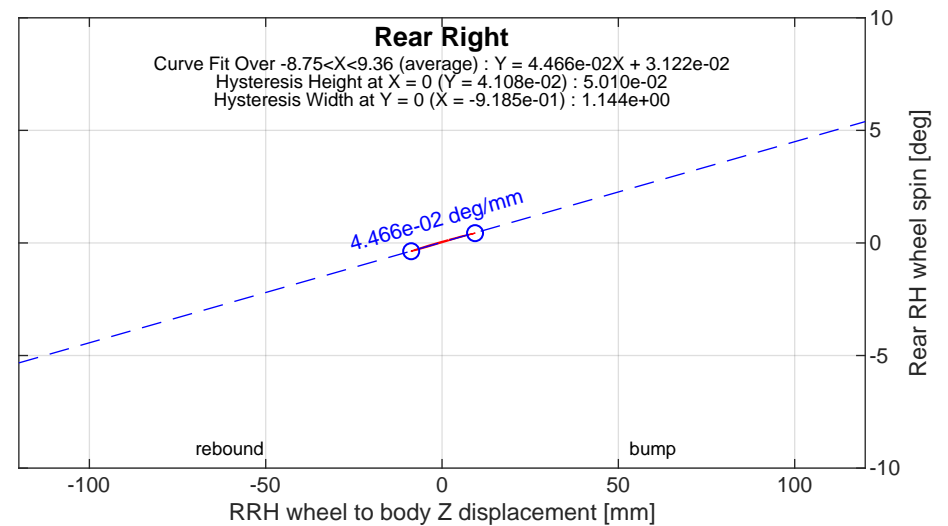
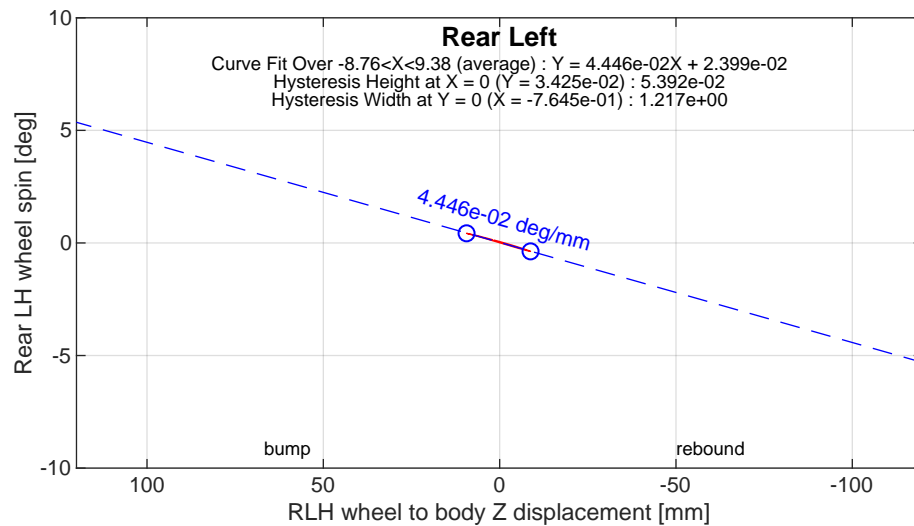
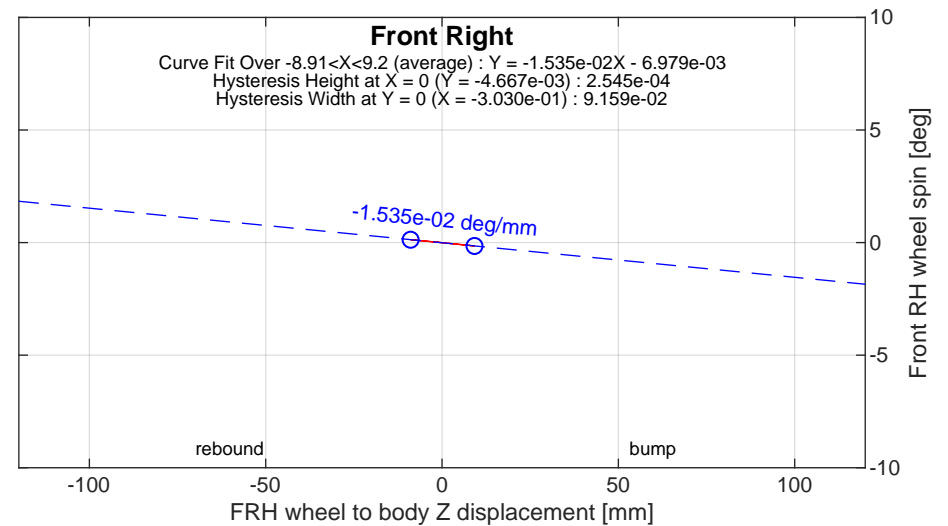
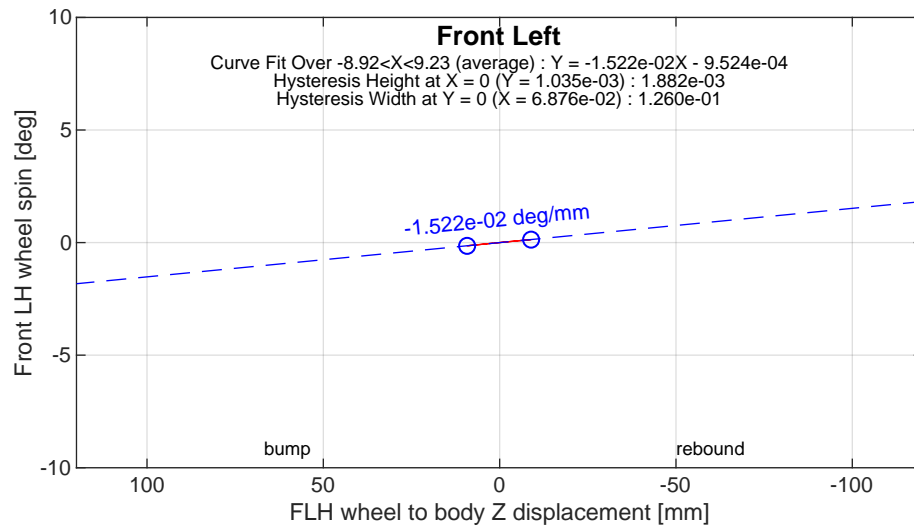
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Bump Spin

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (1Hz) : Test #1 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 1 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

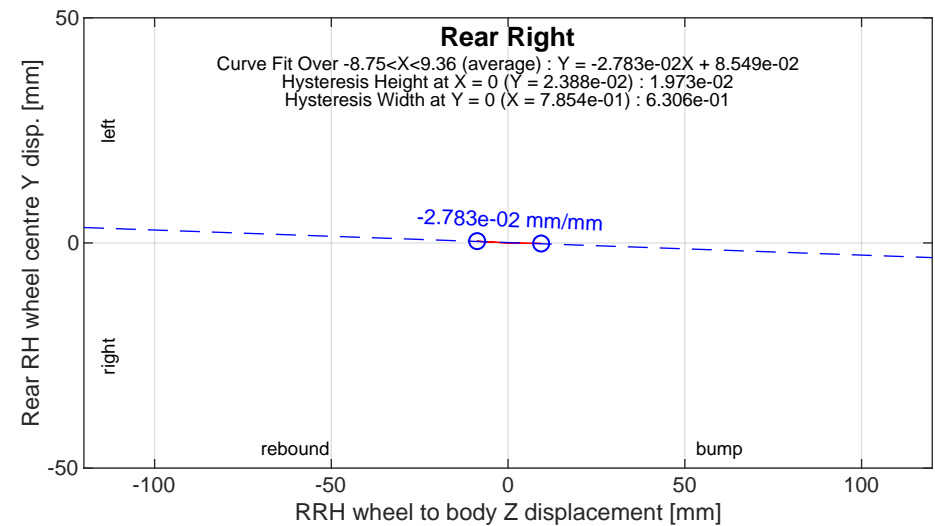
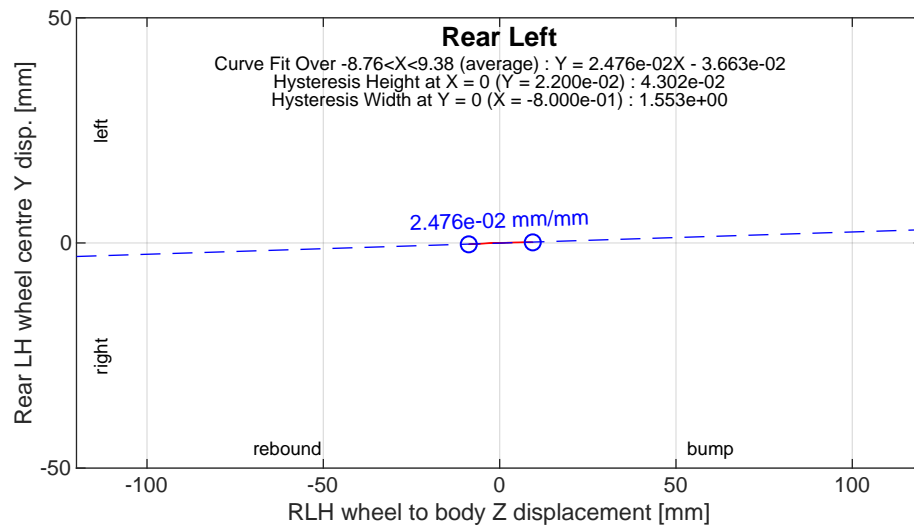
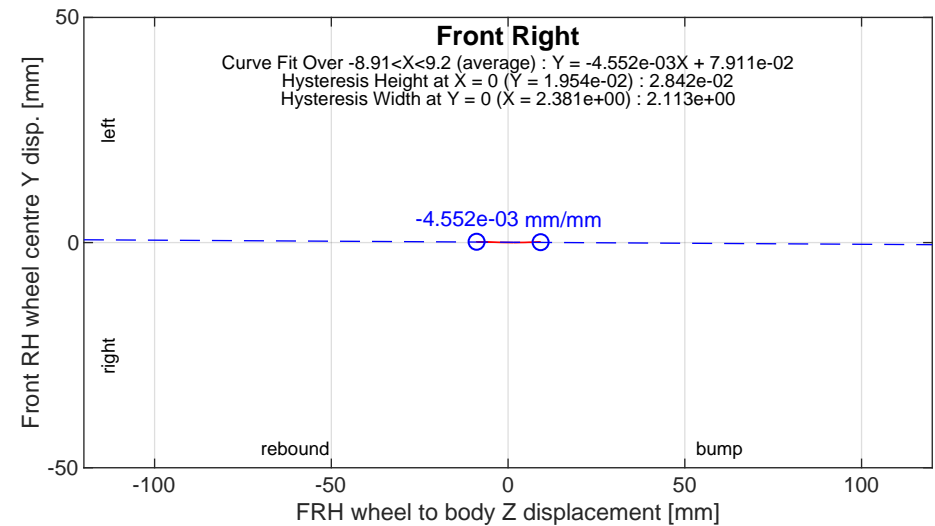
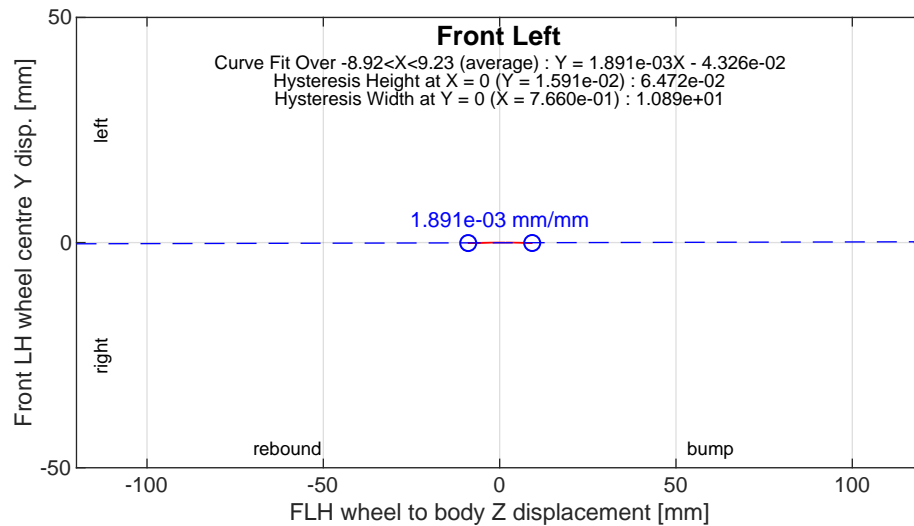
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



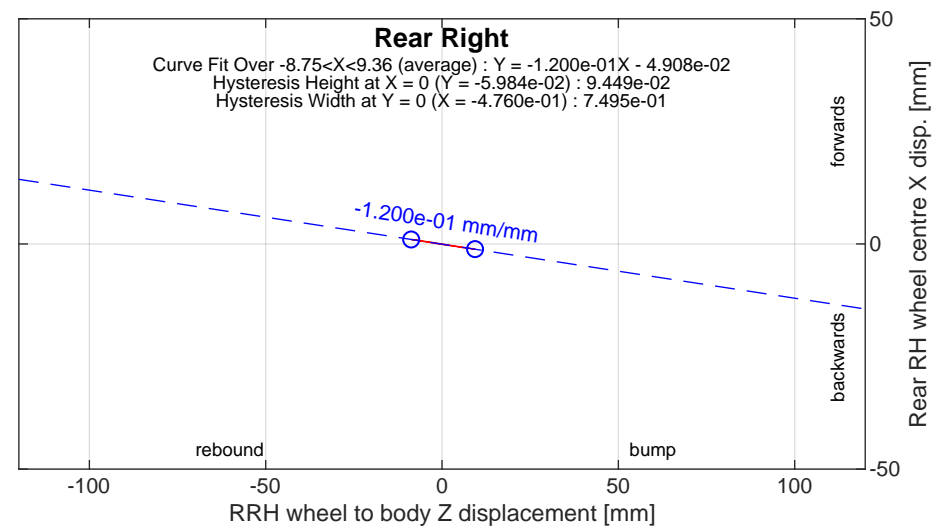
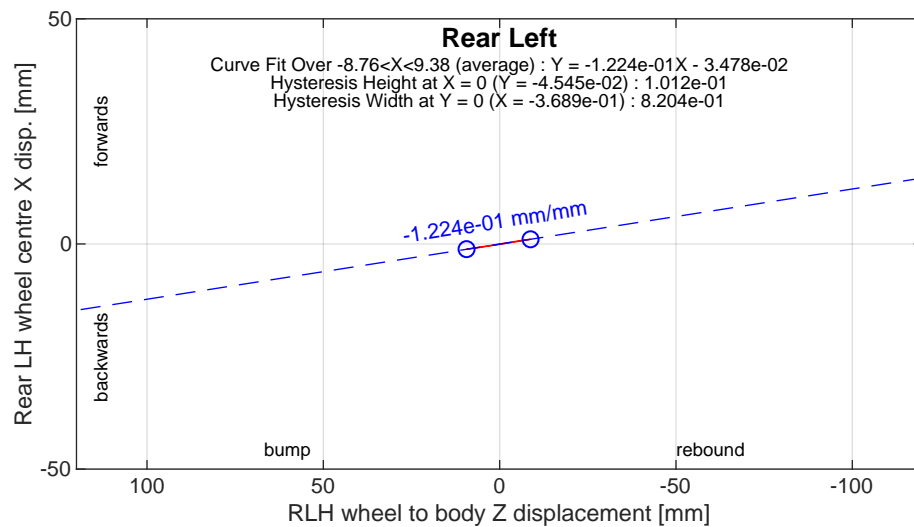
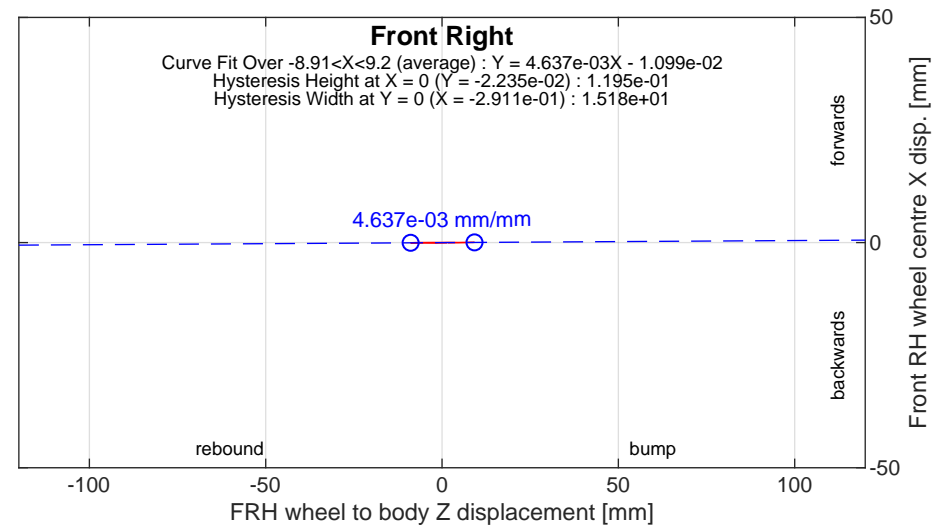
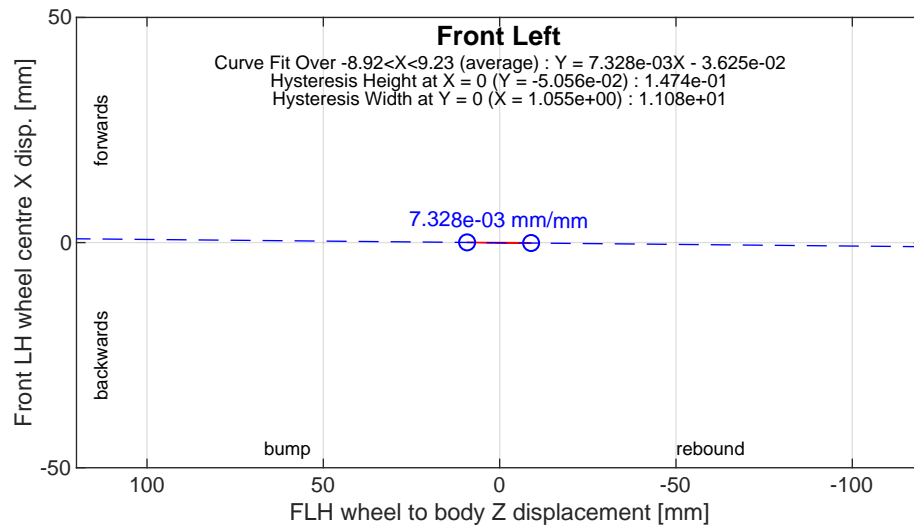
Bounce
Audi Q5
Lateral Wheel Centre Displacement
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1Hz) : Test #1 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Wheel Recession

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (1Hz) : Test #1 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 1 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

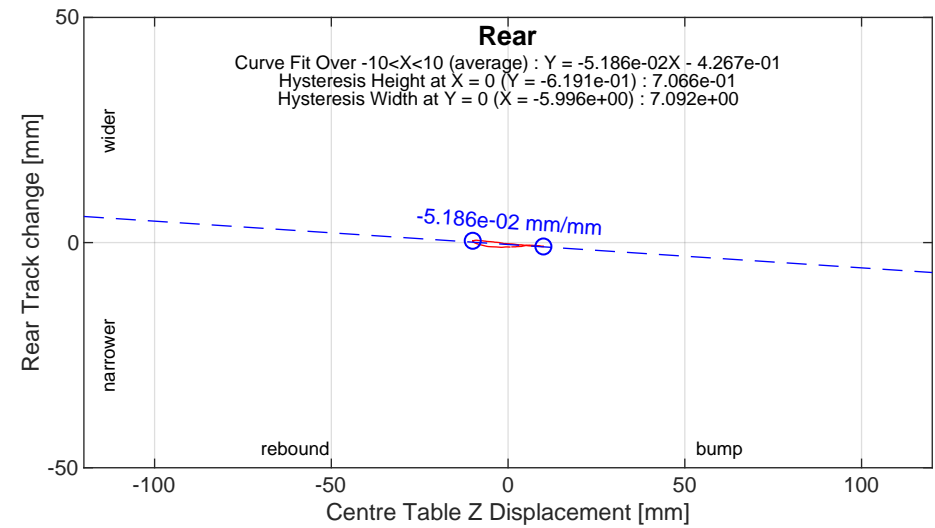
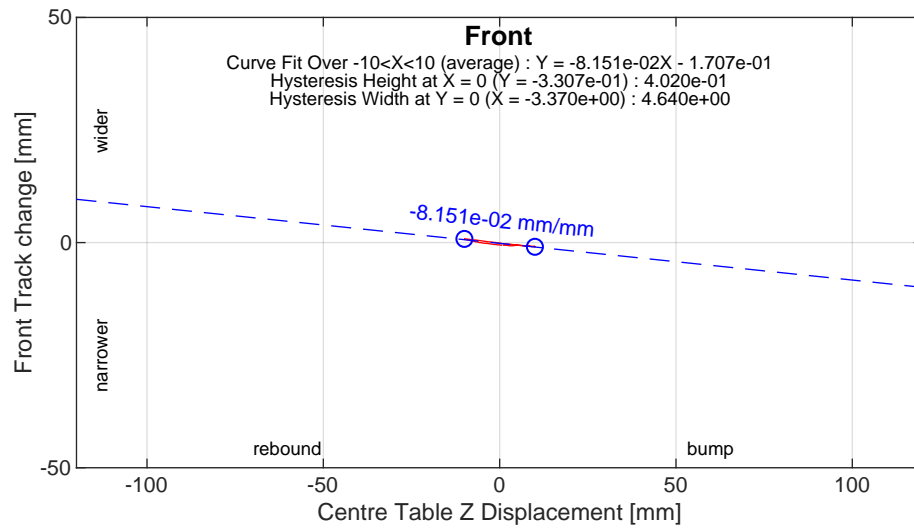
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Track Change

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (1Hz) : Test #1 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 1 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

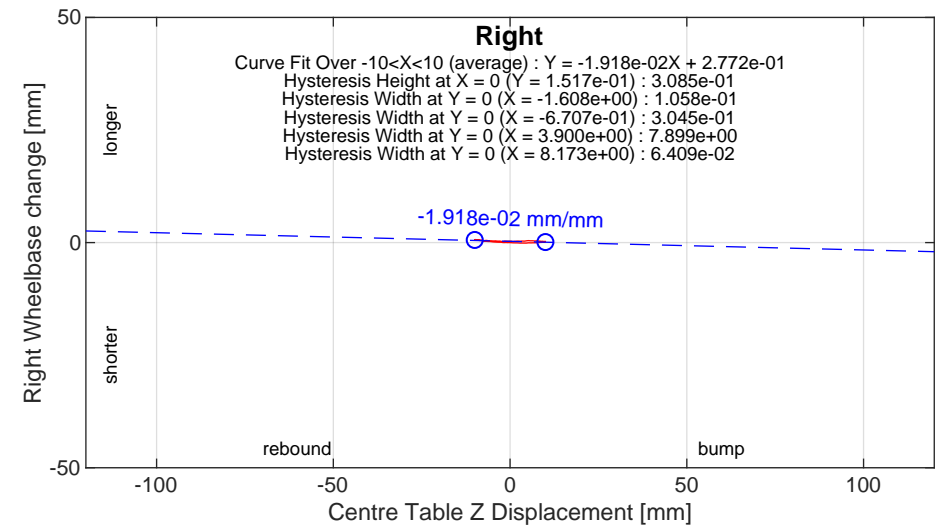
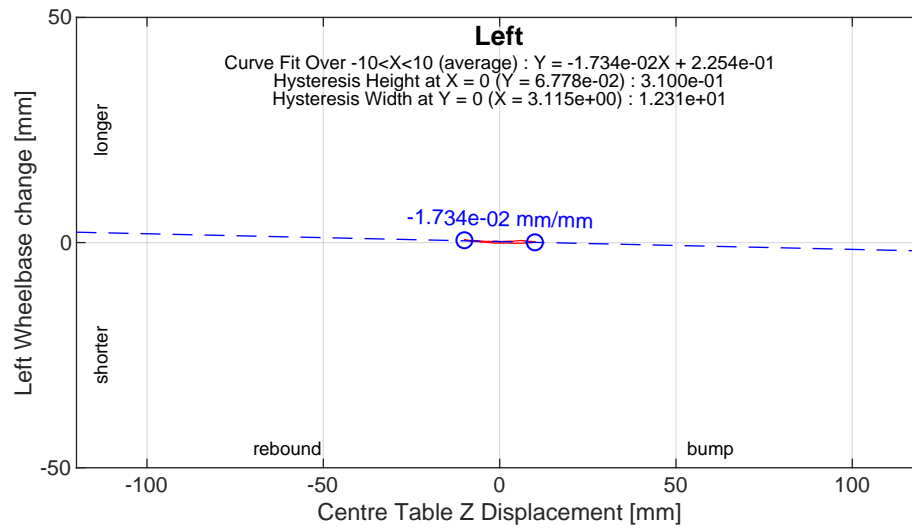
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



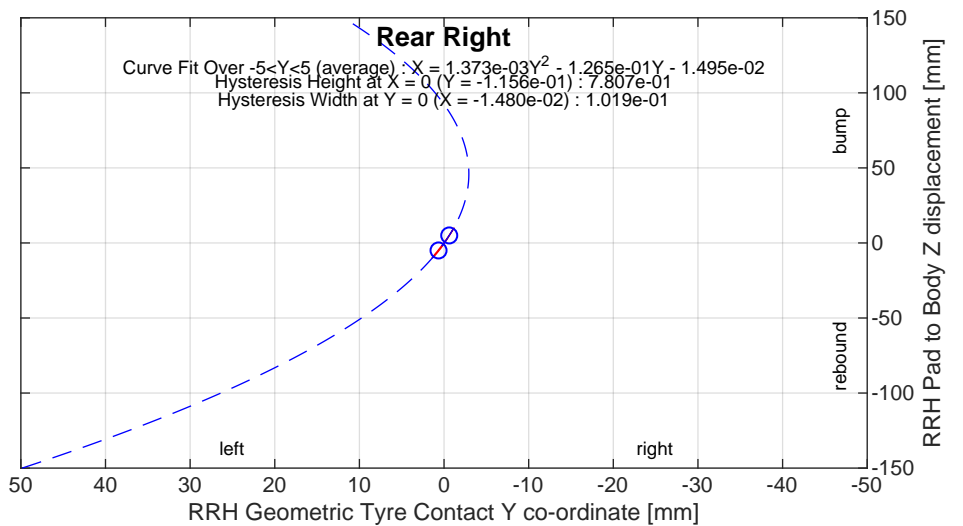
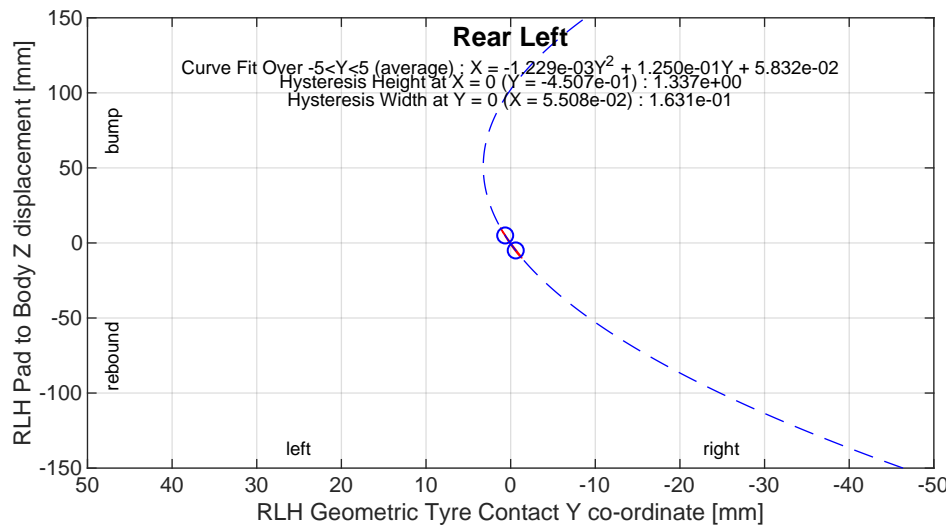
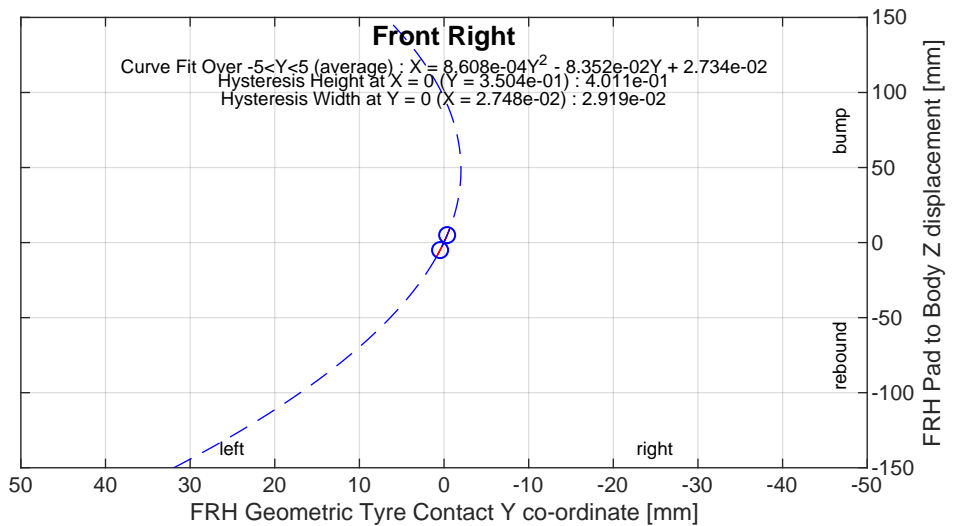
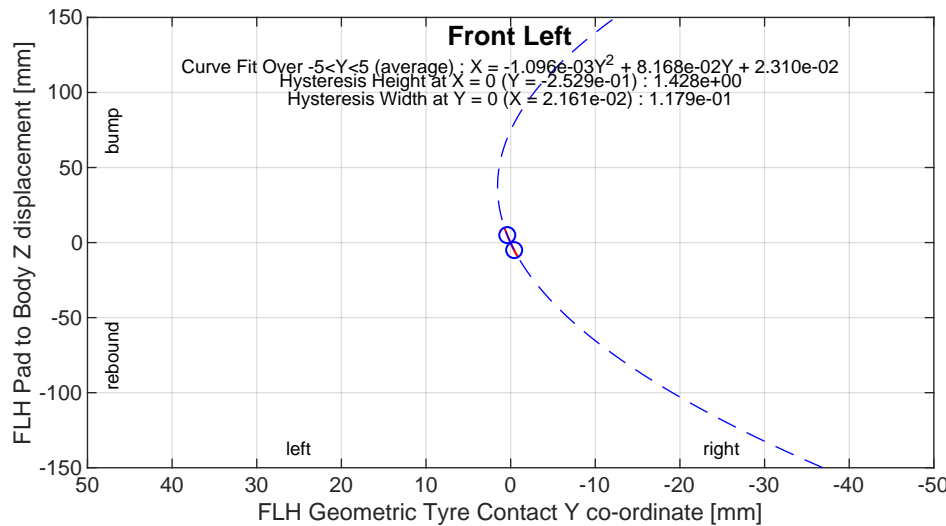
Bounce
Audi Q5
Wheelbase Change
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1Hz) : Test #1 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Roll Centre Curve Fits

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (1Hz) : Test #1 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 1 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

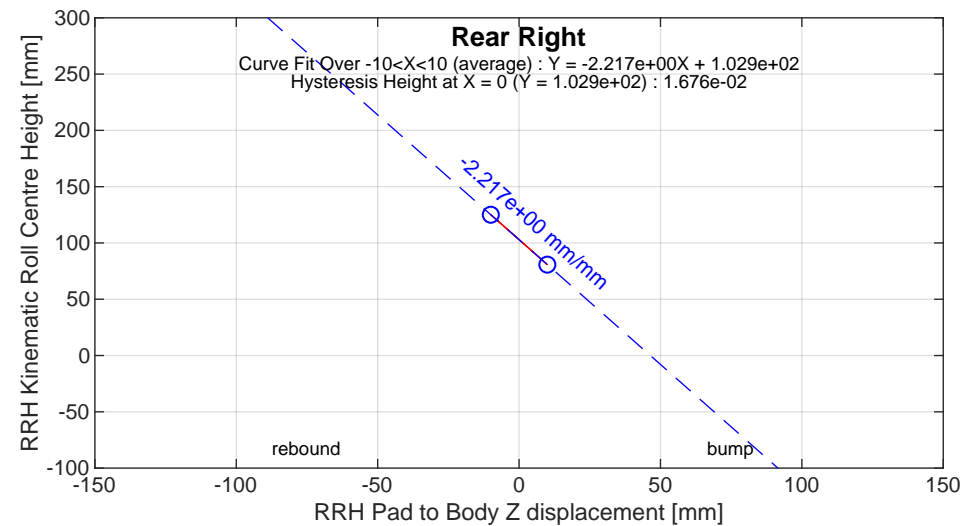
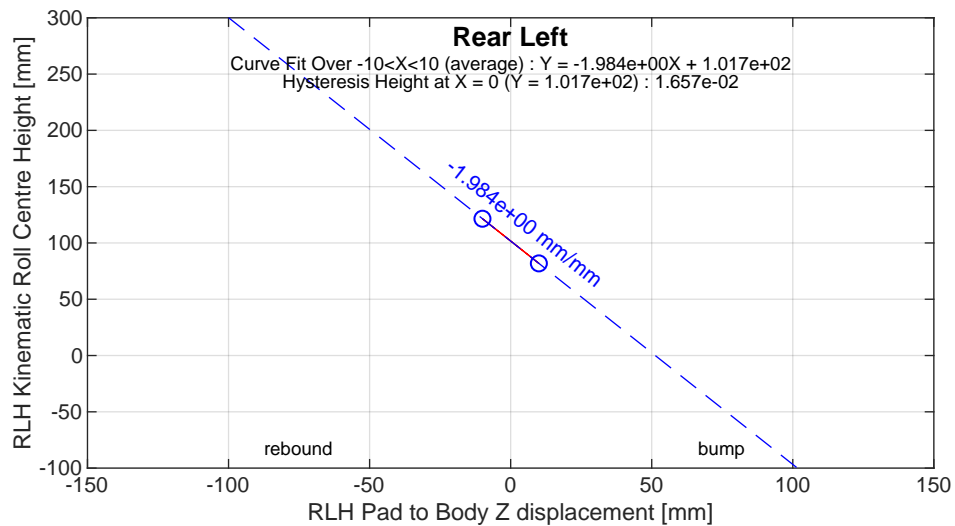
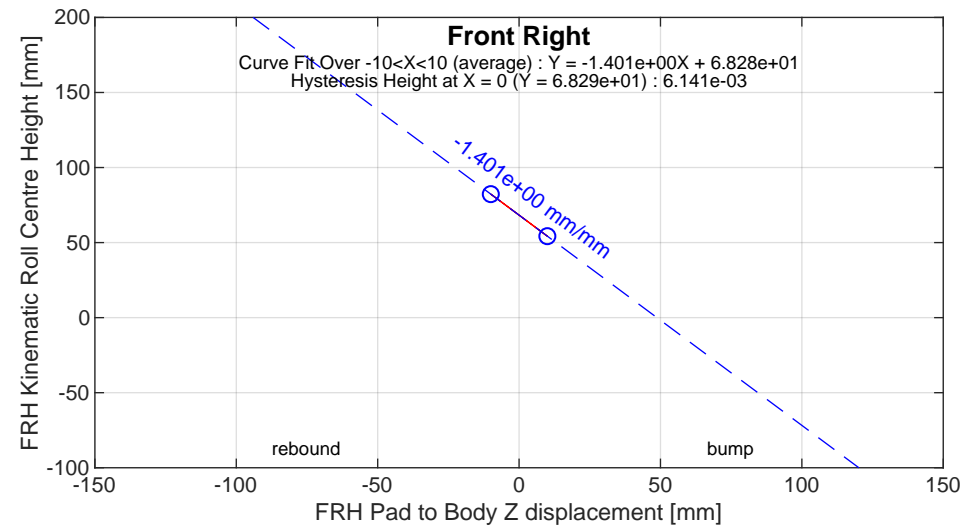
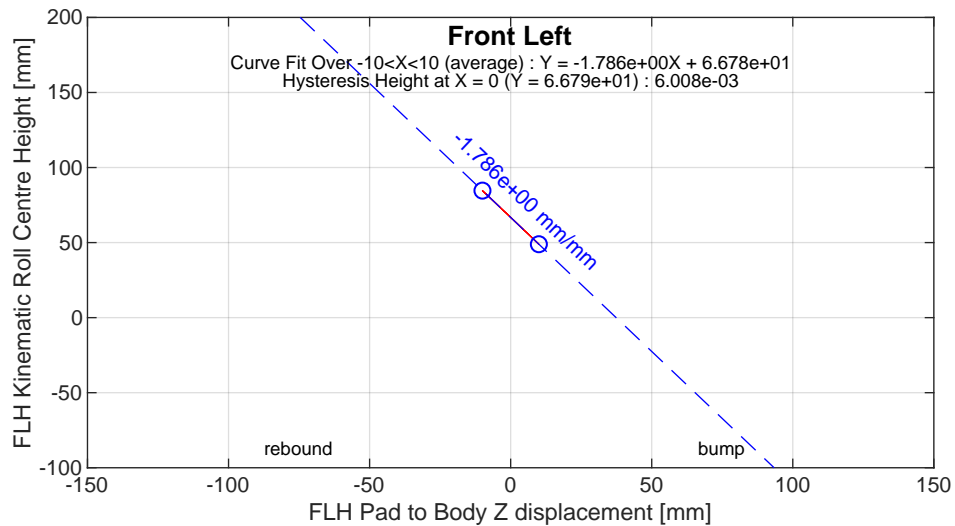
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



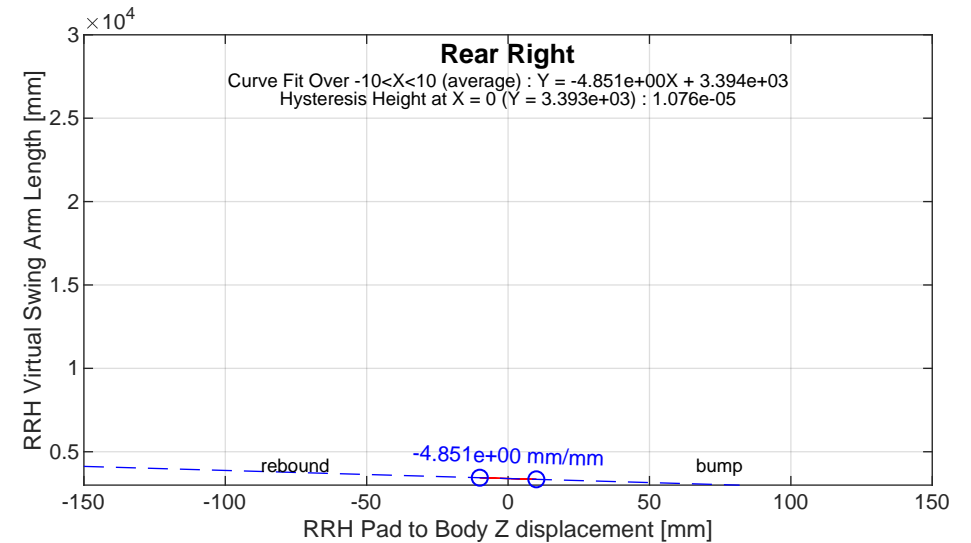
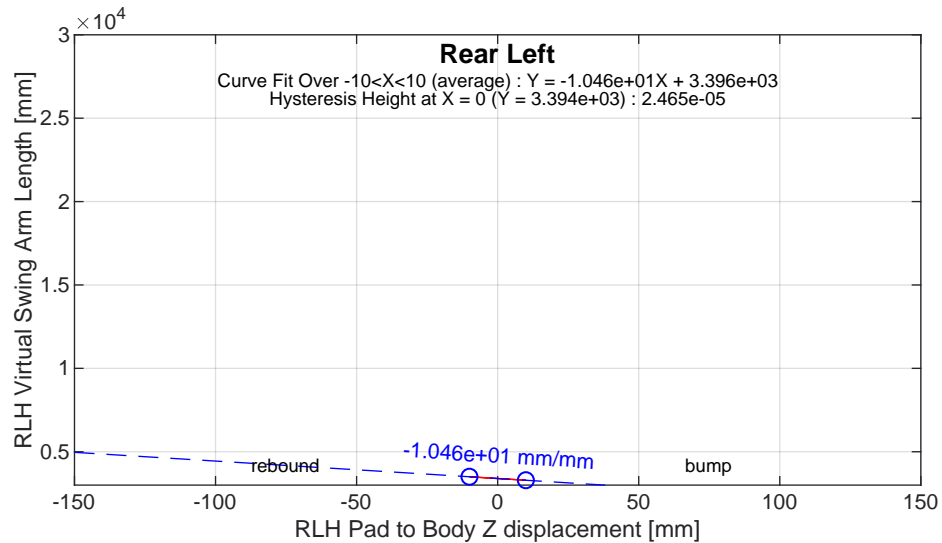
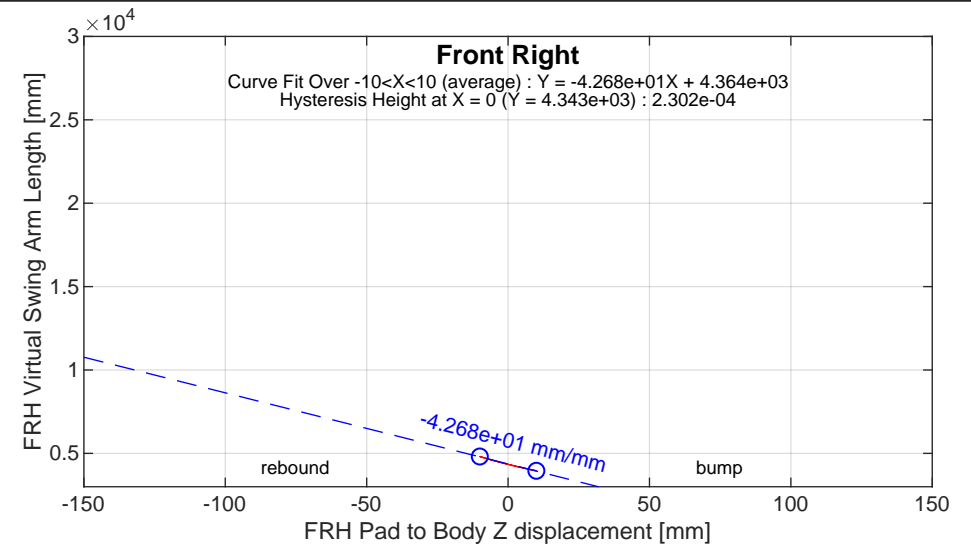
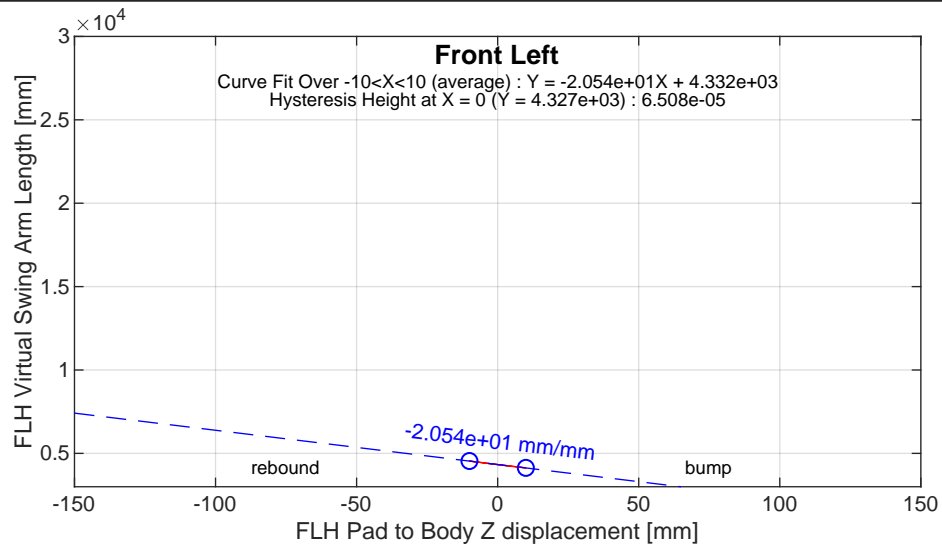
Bounce
Audi Q5
Kinematic Roll Centre Height
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1Hz) : Test #1 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



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SPMM Serial Number 31



Bounce

Audi Q5

Virtual Swing Arm Length

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (1Hz) : Test #1 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 1 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

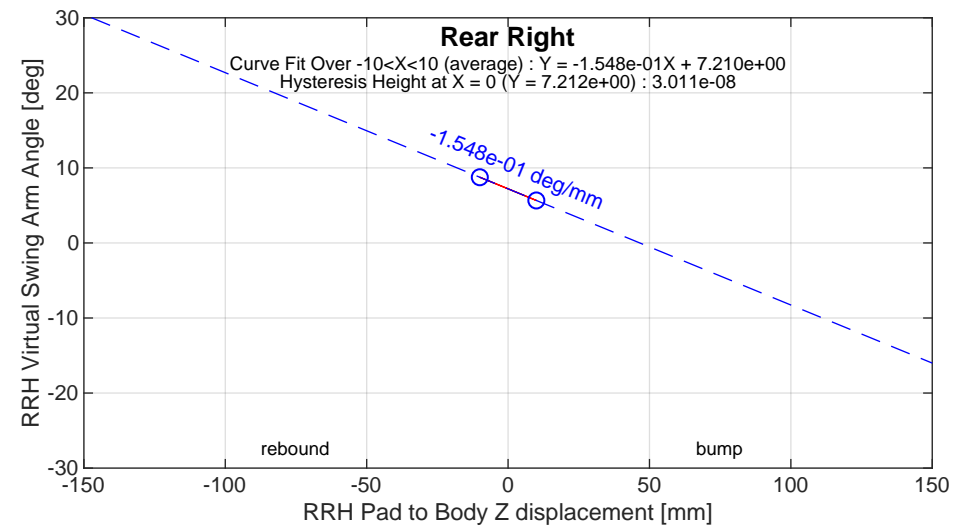
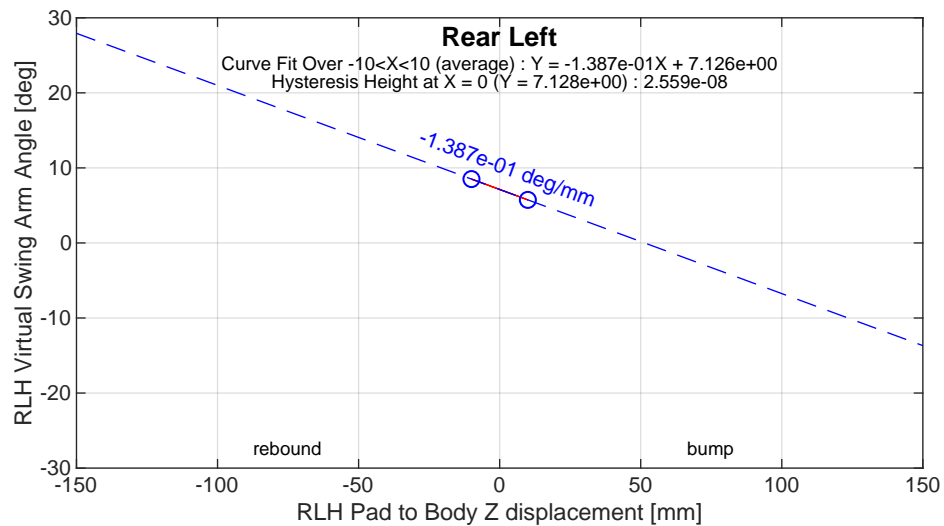
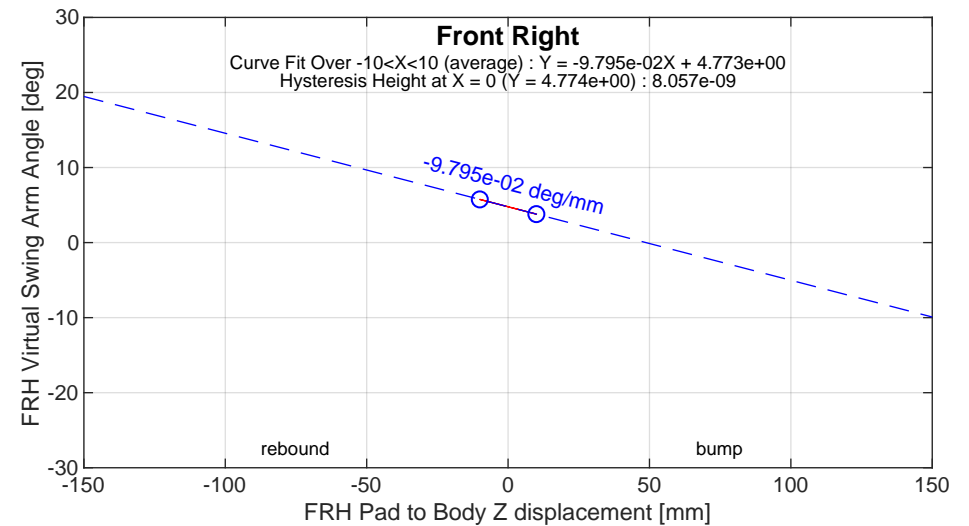
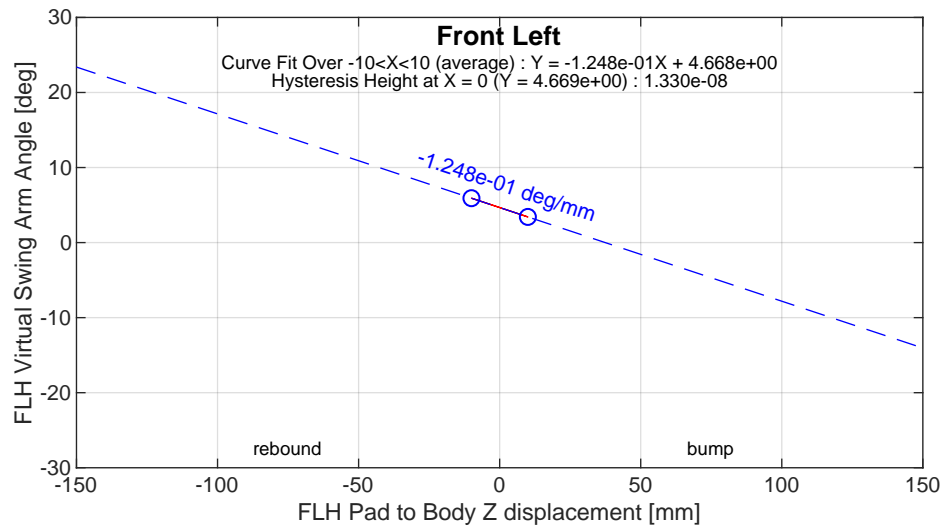
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



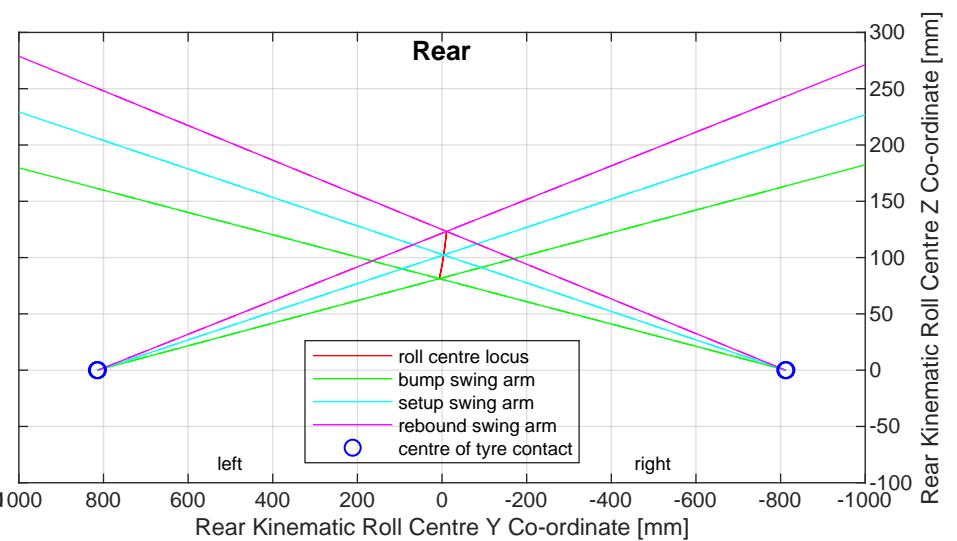
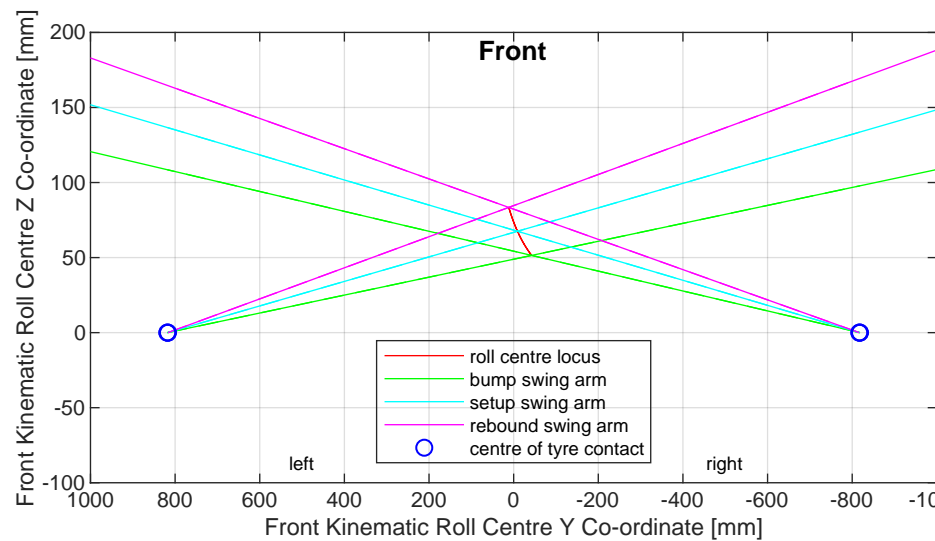
Bounce
Audi Q5
Virtual Swing Arm Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1Hz) : Test #1 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



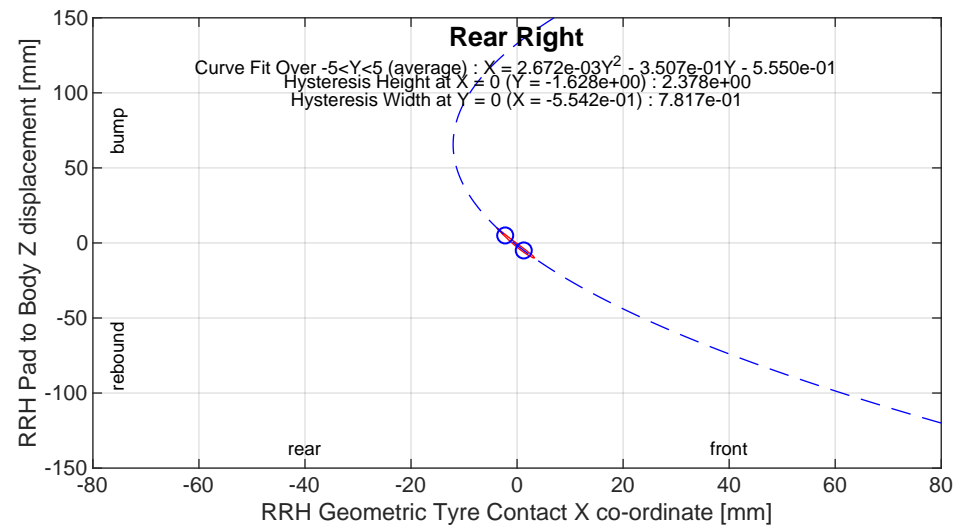
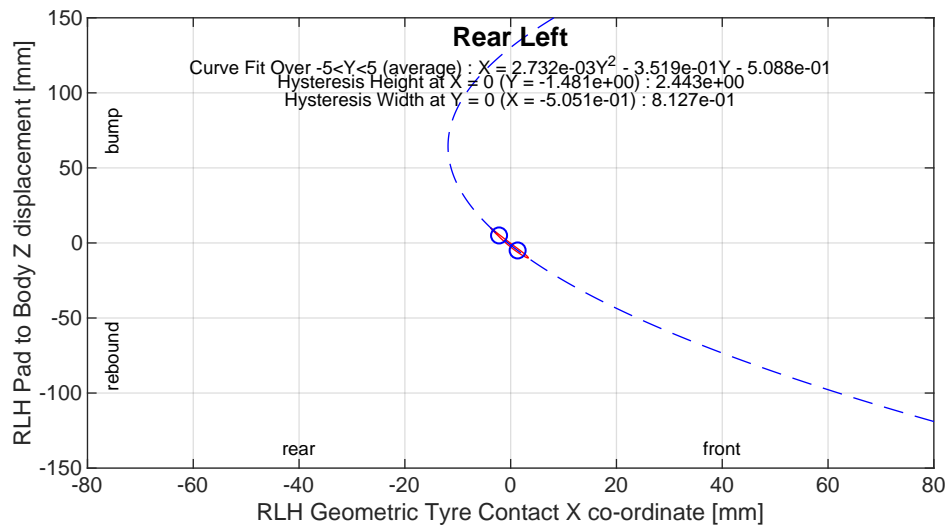
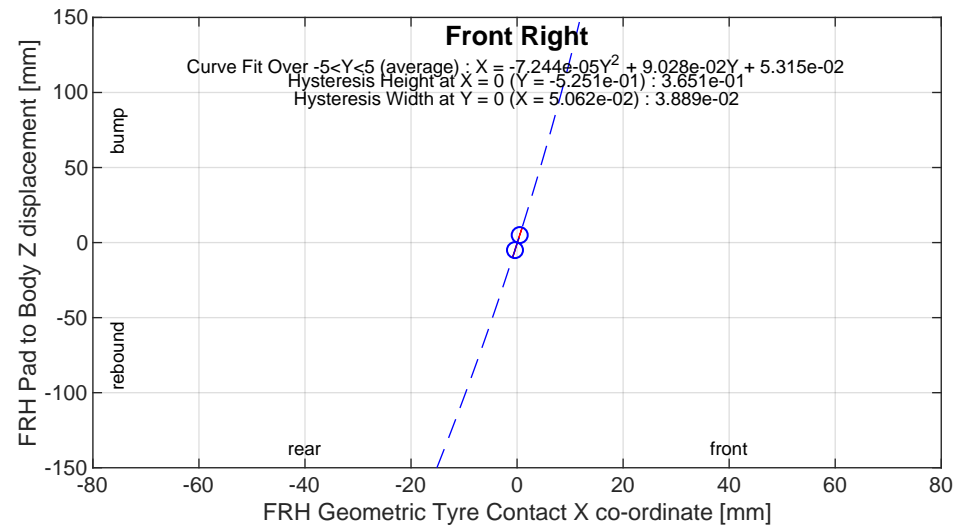
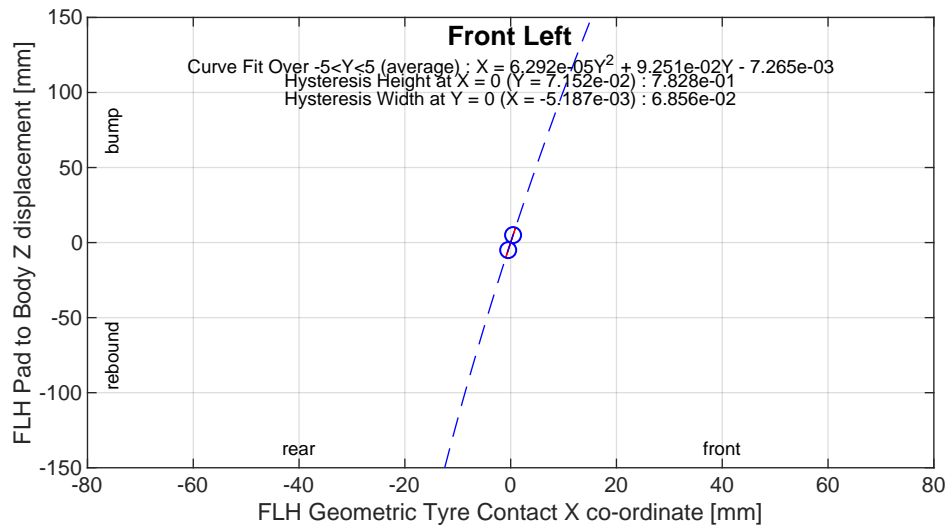
Bounce
Audi Q5
Kinematic Roll Centre Locus
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 6 : Dynamic Tests
 Dynamic Bounce (1Hz) : Test #1 of 6
 Test Run #1, Cycle #25
 Input : Sinusoidal, Cycle Frequency : 1 Hz
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : No
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



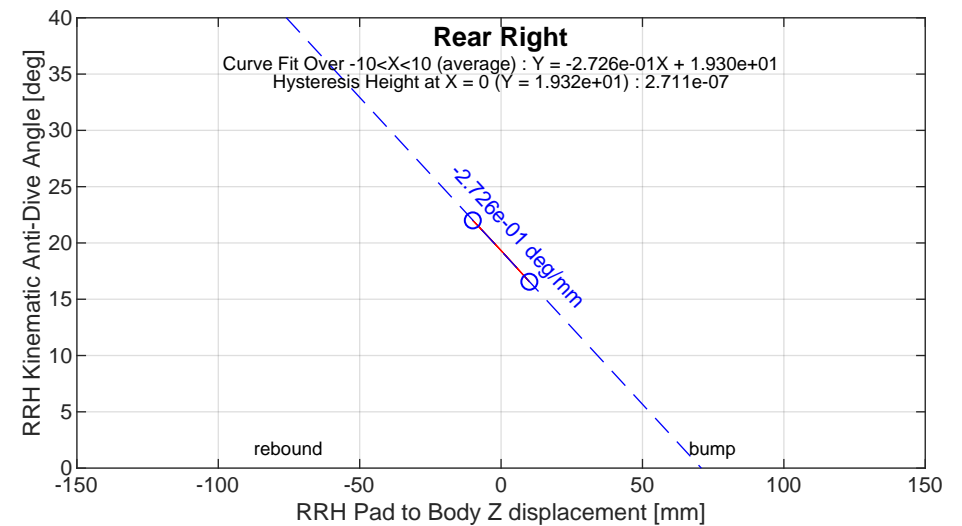
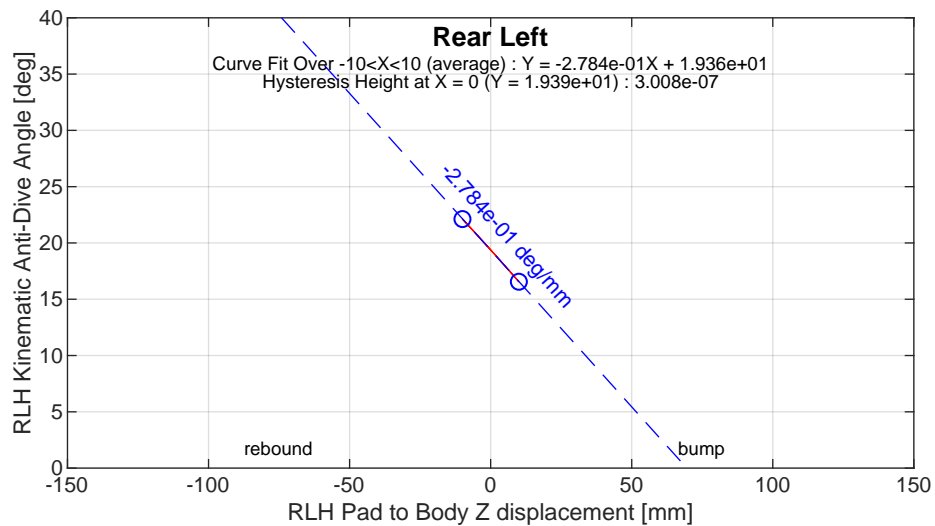
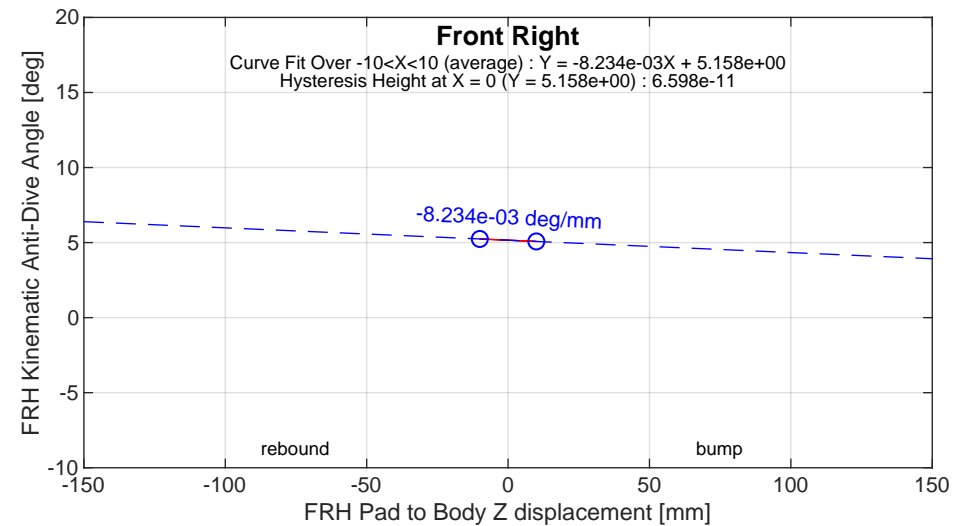
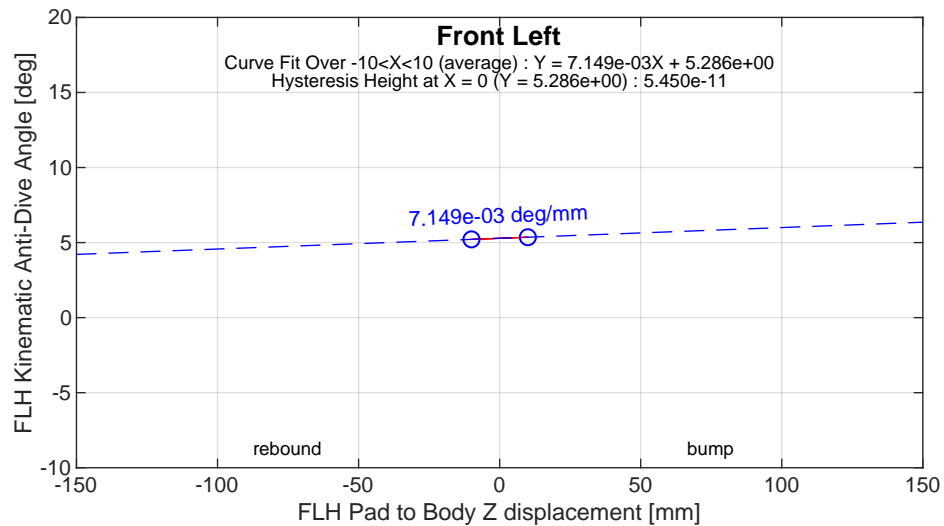
Bounce
Audi Q5
Anti-Dive Curve Fits
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1Hz) : Test #1 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



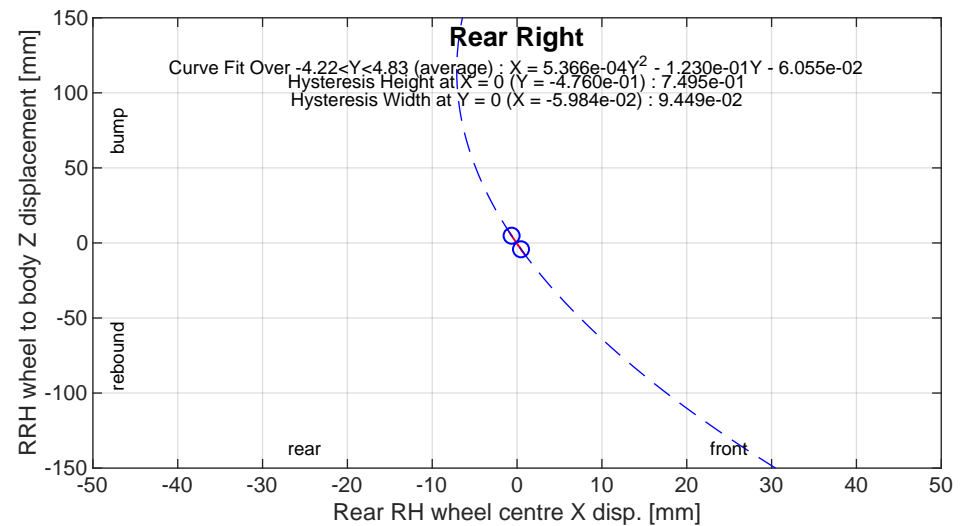
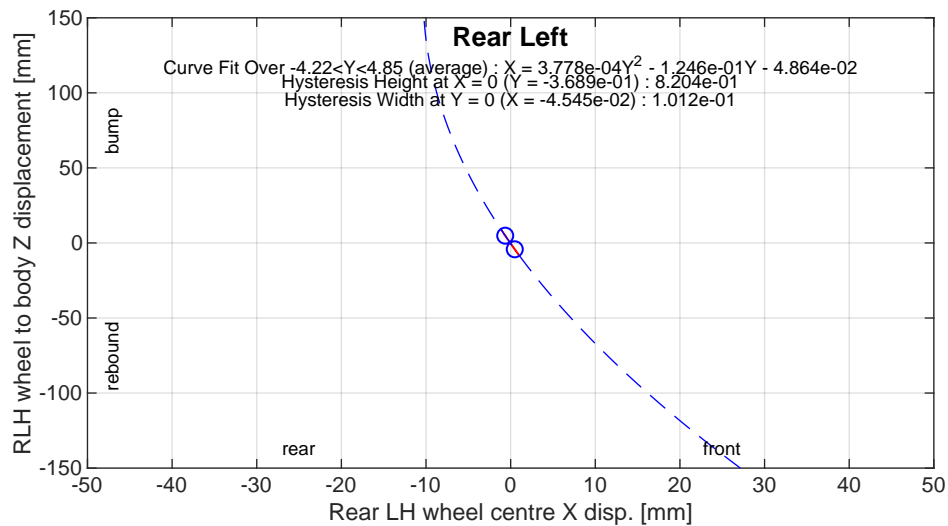
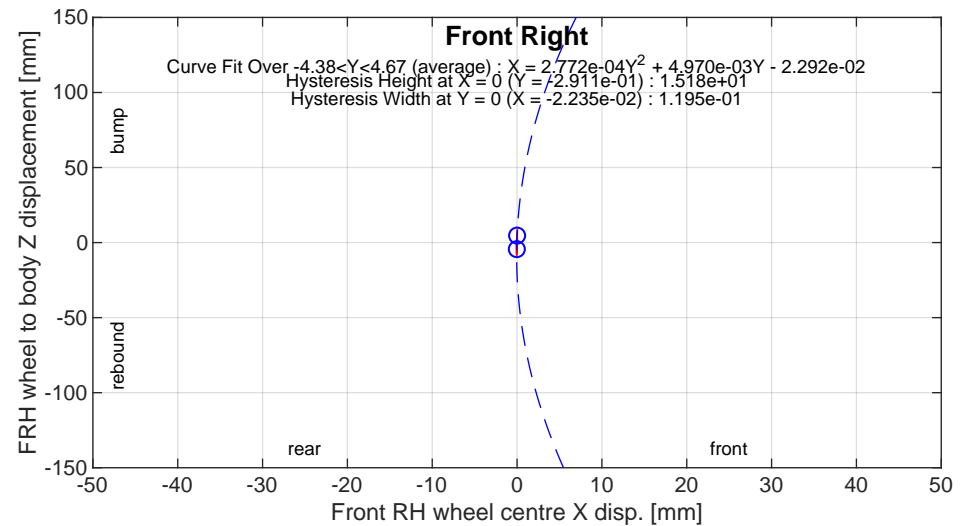
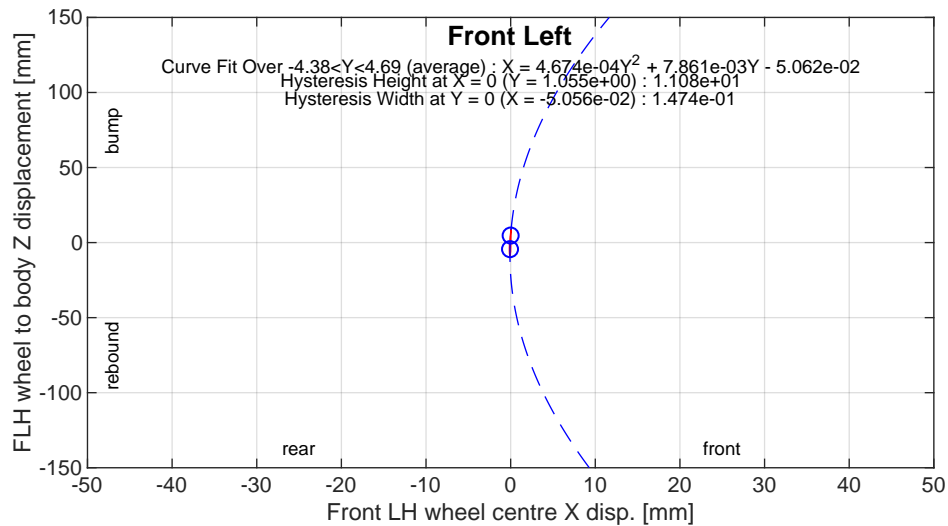
Bounce
Audi Q5
Kinematic Anti-Dive Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1Hz) : Test #1 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Anti-Squat Curve Fits

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (1Hz) : Test #1 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 1 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

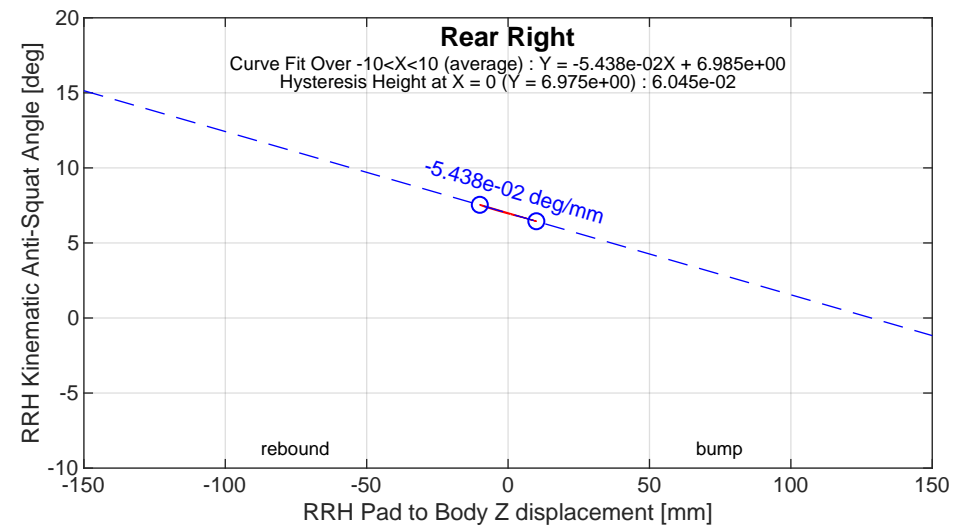
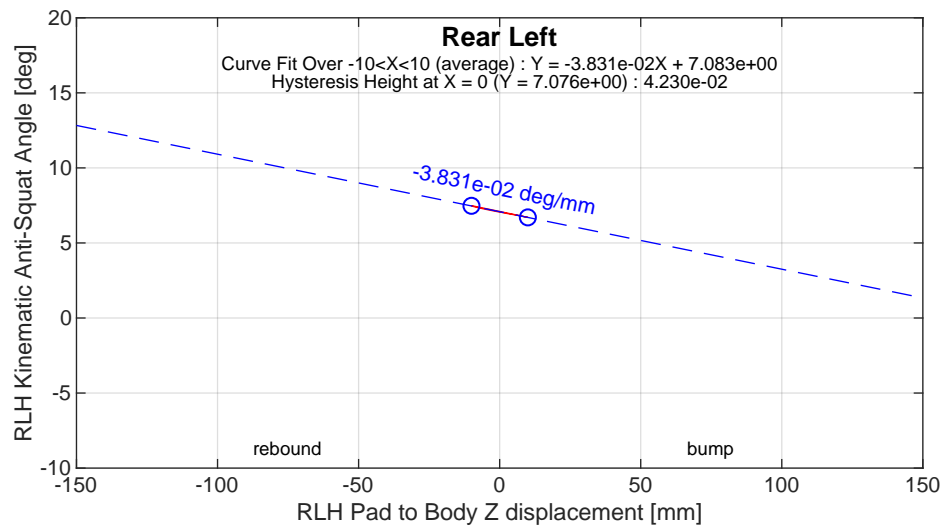
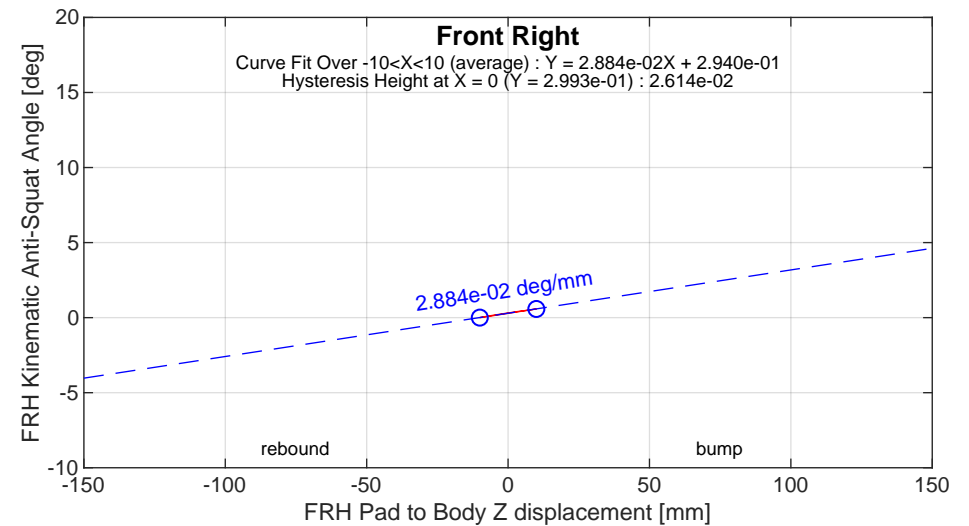
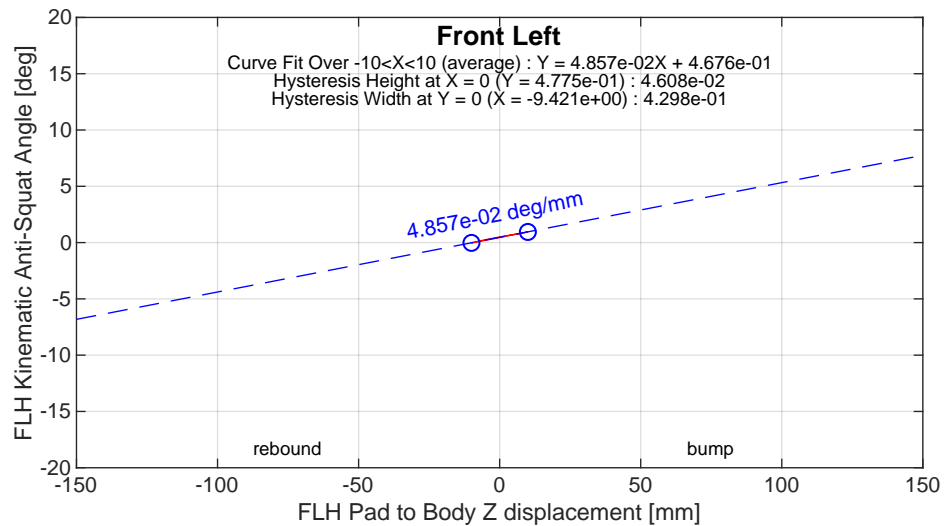
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce
Audi Q5
Kinematic Anti-Squat Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1Hz) : Test #1 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31

Plotted Curve Fit Coefficients

Wheel Rates (FL/FR/RL/RR) [N/mm]:

4.434e+01	4.410e+03
4.347e+01	4.445e+03
4.758e+01	4.646e+03
4.795e+01	4.660e+03

Tyre Radial Rates (FL/FR/RL/RR) [N/mm]:

4.596e+02	4.564e+03
4.523e+02	4.585e+03
4.606e+02	4.881e+03
4.585e+02	4.888e+03

Ride Rates (FL/FR/RL/RR) [N/mm]:

4.114e+01	4.422e+03
4.029e+01	4.457e+03
4.469e+01	4.665e+03
4.495e+01	4.678e+03

Bump Steer (FL/FR/RL/RR) [deg/mm]:

-2.879e-03	-1.312e-02
-3.148e-03	-1.610e-02
2.076e-03	4.529e-03
2.857e-03	6.421e-03

Bump Camber (FL/FR/RL/RR) [deg/mm]:

-1.452e-02	2.450e-03
-1.451e-02	4.503e-03
-1.888e-02	6.980e-03
-1.901e-02	6.300e-03

Bump Spin (FL/FR/RL/RR) [deg/mm]:

-1.522e-02	-9.524e-04
-1.535e-02	-6.979e-03
4.446e-02	2.399e-02
4.466e-02	3.122e-02

Lateral Wheel Centre Displacement (FL/FR/RL/RR) [mm/mm]:

1.891e-03	-4.326e-02
-4.552e-03	7.911e-02
2.476e-02	-3.663e-02
-2.783e-02	8.549e-02

Wheel Recession (FL/FR/RL/RR) [mm/mm]:

7.328e-03	-3.625e-02
4.637e-03	-1.099e-02
-1.224e-01	-3.478e-02
-1.200e-01	-4.908e-02

Track Change (F/R) [mm/mm]:

-8.151e-02	-1.707e-01
-5.186e-02	-4.267e-01

Wheelbase Change (L/R) [mm/mm]:

-1.734e-02	2.254e-01
-1.918e-02	2.772e-01

Roll Centre Curve Fits (FL/FR/RL/RR) [mm/mm]:

-1.096e-03	8.168e-02	2.310e-02
8.608e-04	-8.352e-02	2.734e-02
-1.229e-03	1.250e-01	5.832e-02
1.373e-03	-1.265e-01	-1.495e-02

Kinematic Roll Centre Height (FL/FR/RL/RR) [mm/mm]:

-1.786e+00	6.678e+01
-1.401e+00	6.828e+01
-1.984e+00	1.017e+02
-2.217e+00	1.029e+02

Virtual Swing Arm Length (FL/FR/RL/RR) [mm/mm]:

-2.054e+01	4.332e+03
-4.268e+01	4.364e+03
-1.046e+01	3.396e+03
-4.851e+00	3.394e+03

Virtual Swing Arm Angle (FL/FR/RL/RR) [deg/mm]:

-1.248e-01	4.668e+00
------------	-----------

-9.795e-02	4.773e+00
-1.387e-01	7.126e+00
-1.548e-01	7.210e+00

Anti-Dive Curve Fits (FL/FR/RL/RR) [mm/mm]:

6.292e-05	9.251e-02	-7.265e-03
-7.244e-05	9.028e-02	5.315e-02
2.732e-03	-3.519e-01	-5.088e-01
2.672e-03	-3.507e-01	-5.550e-01

Kinematic Anti-Dive Angle (FL/FR/RL/RR) [deg/mm]:

7.149e-03	5.286e+00
-8.234e-03	5.158e+00
-2.784e-01	1.936e+01
-2.726e-01	1.930e+01

Anti-Squat Curve Fits (FL/FR/RL/RR) [mm/mm]:

4.674e-04	7.861e-03	-5.062e-02
2.772e-04	4.970e-03	-2.292e-02
3.778e-04	-1.246e-01	-4.864e-02
5.366e-04	-1.230e-01	-6.055e-02

Kinematic Anti-Squat Angle (FL/FR/RL/RR) [deg/mm]:

4.857e-02	4.676e-01
2.884e-02	2.940e-01
-3.831e-02	7.083e+00
-5.438e-02	6.985e+00

Calculated Parameters

Kinematic Roll Centre Heights (FL/FR/RL/RR) [mm]:

6.679e+01
6.829e+01
1.017e+02
1.029e+02

Virtual Swing Arm Lengths (FL/FR/RL/RR) [mm]:

4.327e+03
4.343e+03

3.394e+03

3.393e+03

Virtual Swing Arm Angles (FL/FR/RL/RR) [deg]:

4.669e+00

4.774e+00

7.128e+00

7.212e+00

Kinematic Roll Center Height (F/R) [mm]:

6.753e+01

1.023e+02

Kinematic Roll Center Lateral Offset (F/R) [mm]:

-9.036e+00

-3.863e+00

Kinematic Anti-dive Angles (FL/FR/RL/RR) [deg]:

5.286e+00

5.158e+00

1.939e+01

1.932e+01

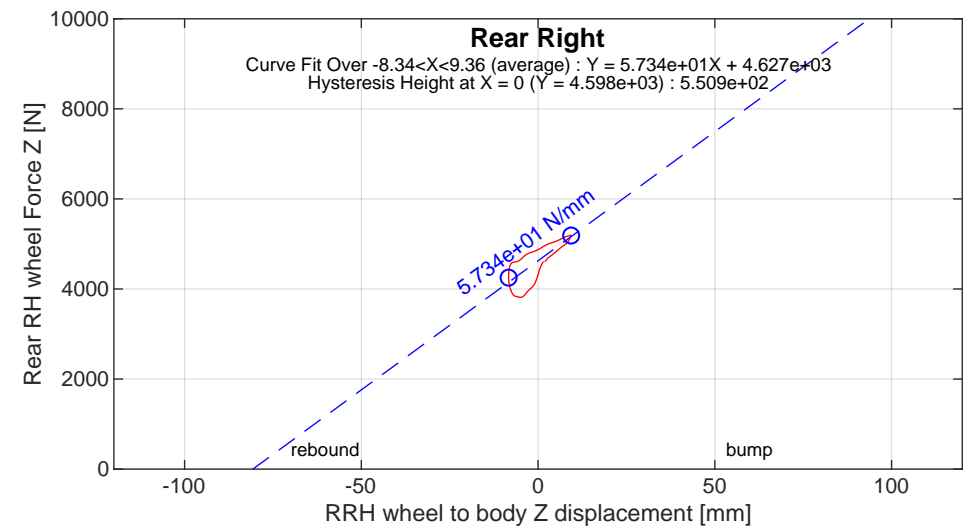
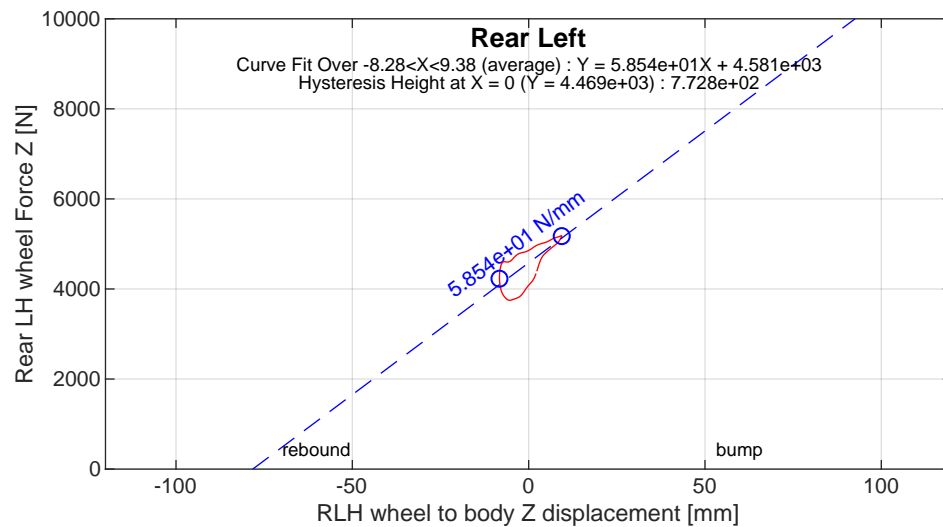
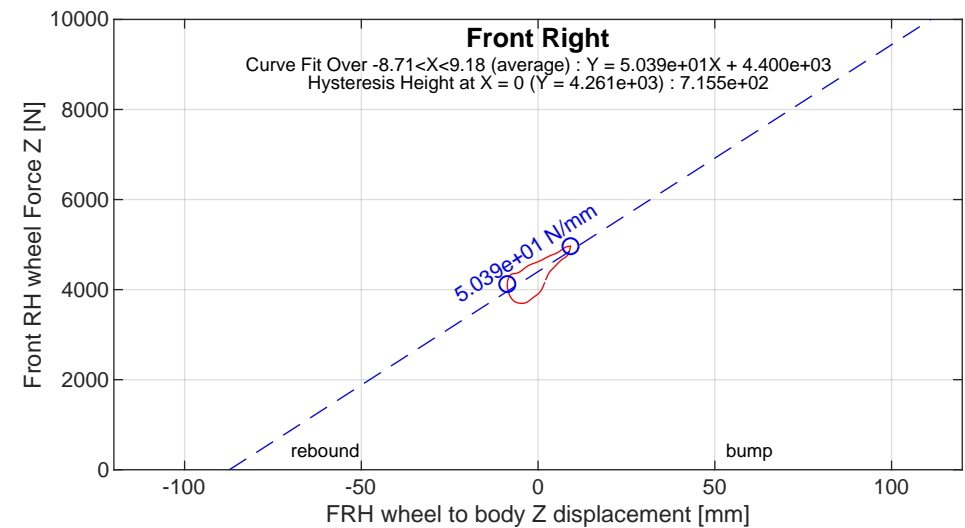
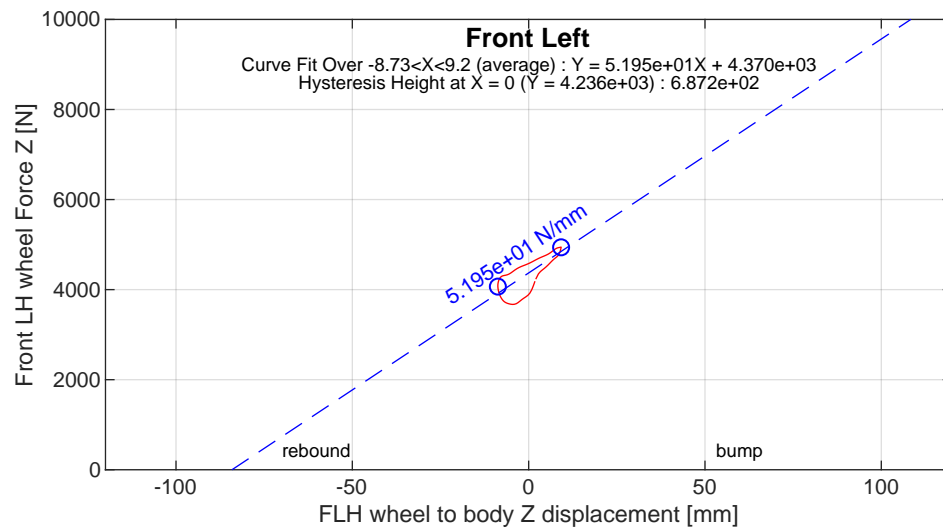
Kinematic Anti-Squat Angles (FL/FR/RL/RR) [deg]:

4.775e-01

2.993e-01

7.076e+00

6.975e+00



Bounce

Audi Q5

Wheel Rates

Co-ordinate system : ISO Ground-fixed

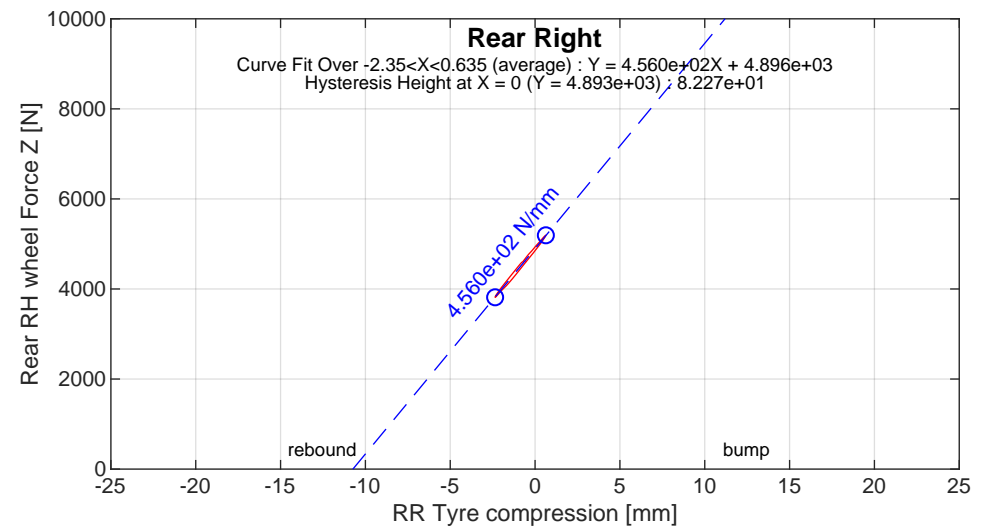
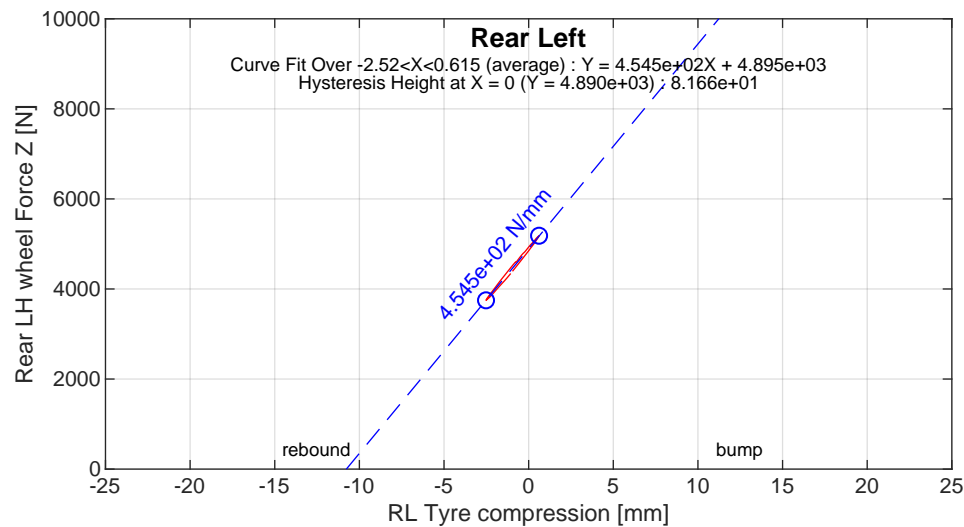
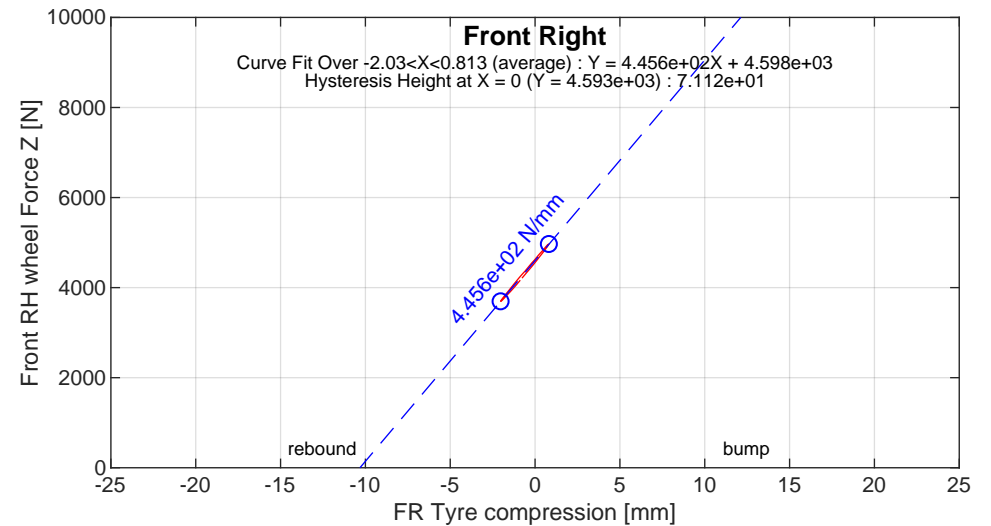
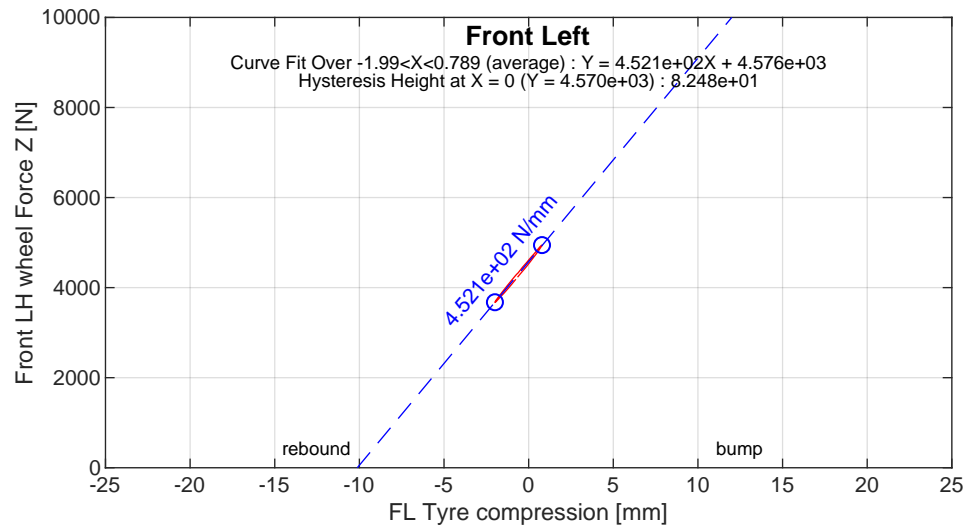
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1.5Hz) : Test #2 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1.5 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Tyre Radial Rates

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (1.5Hz) : Test #2 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 1.5 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

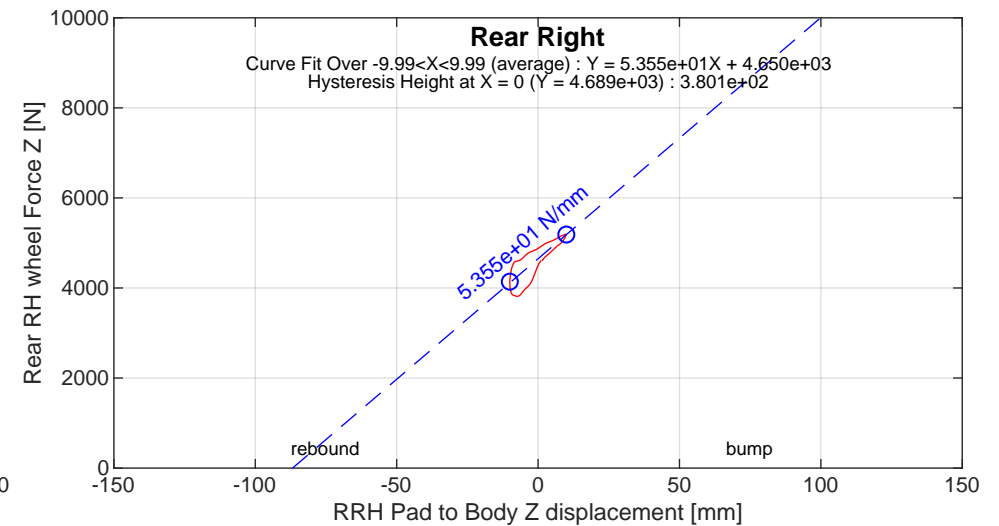
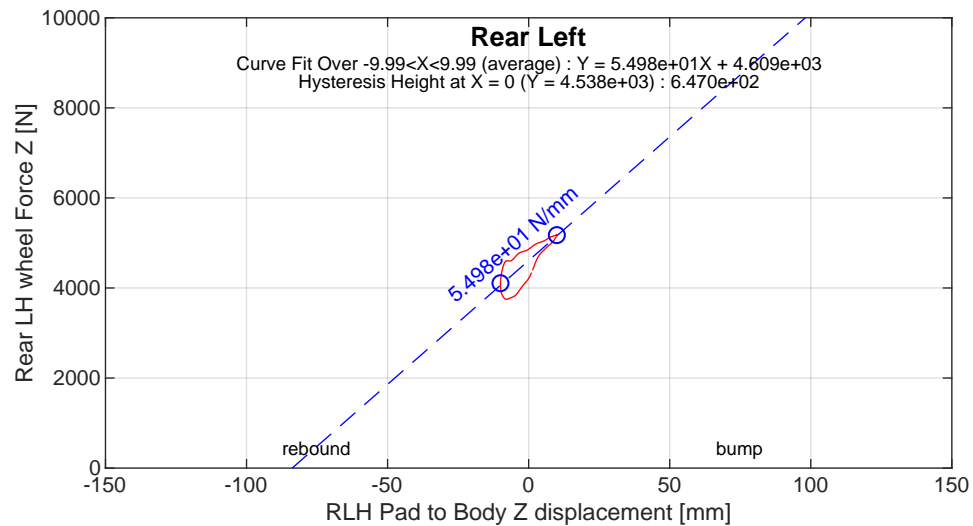
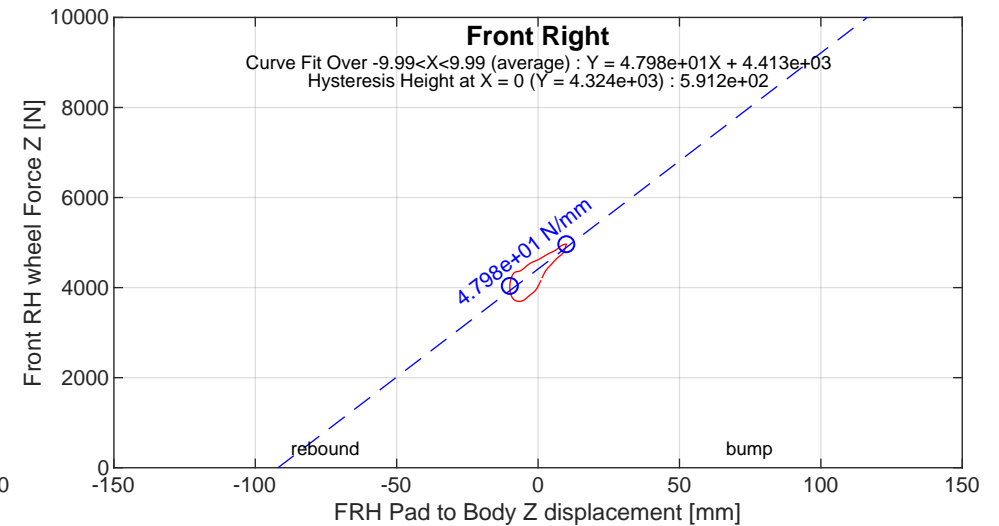
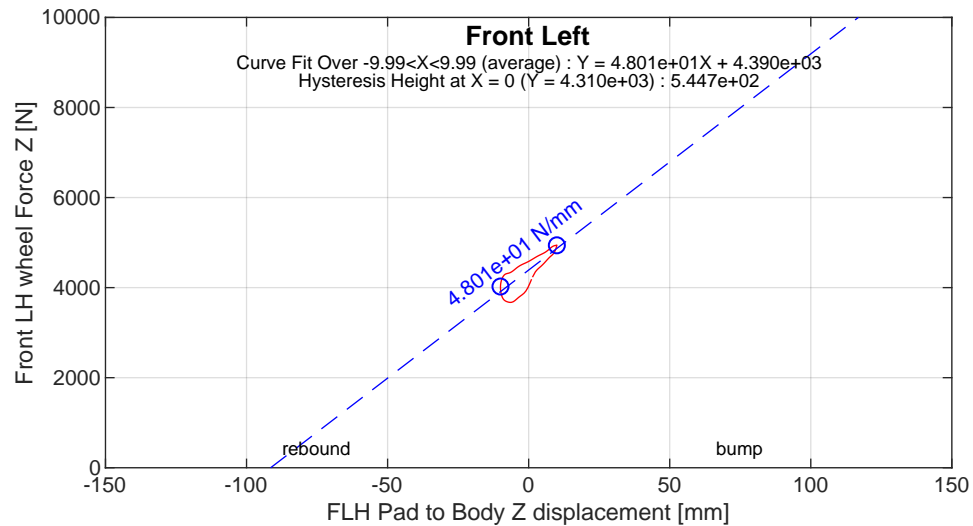
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce Audi Q5 Ride Rates

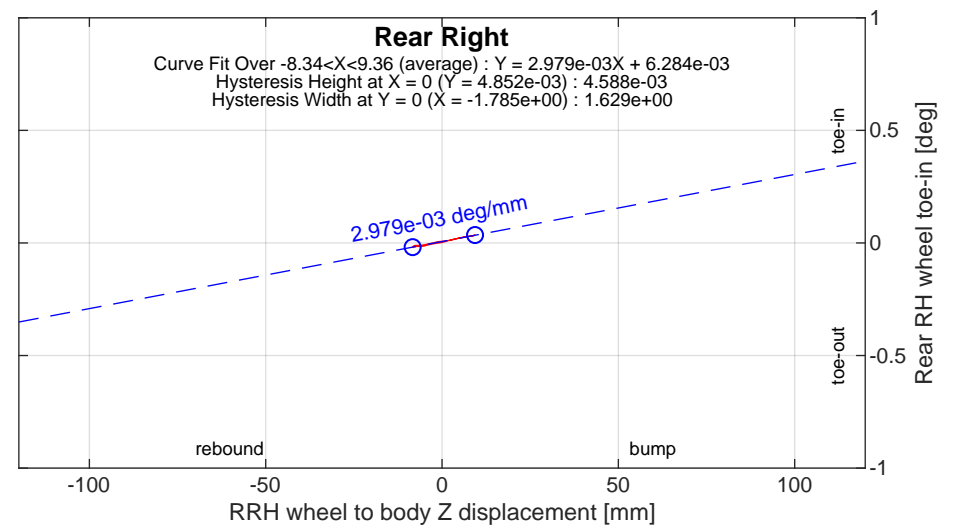
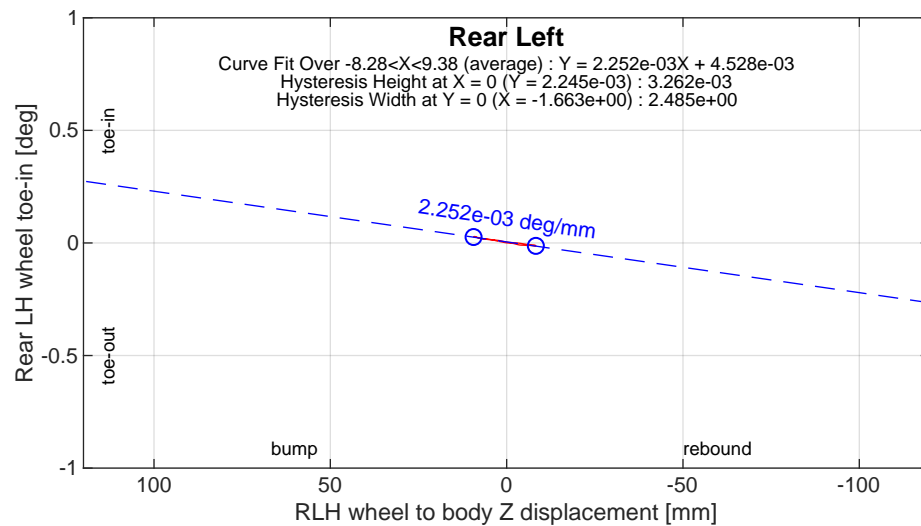
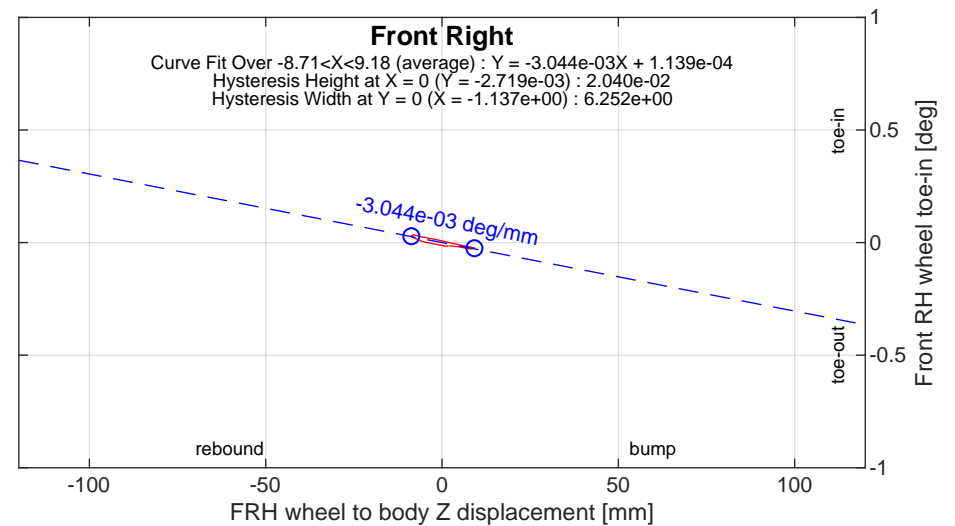
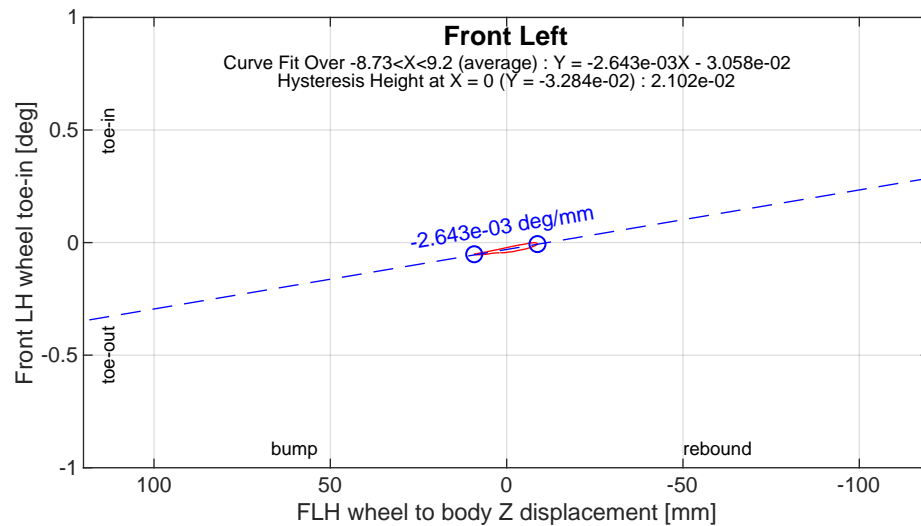
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1.5Hz) : Test #2 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1.5 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Bump Steer

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (1.5Hz) : Test #2 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 1.5 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

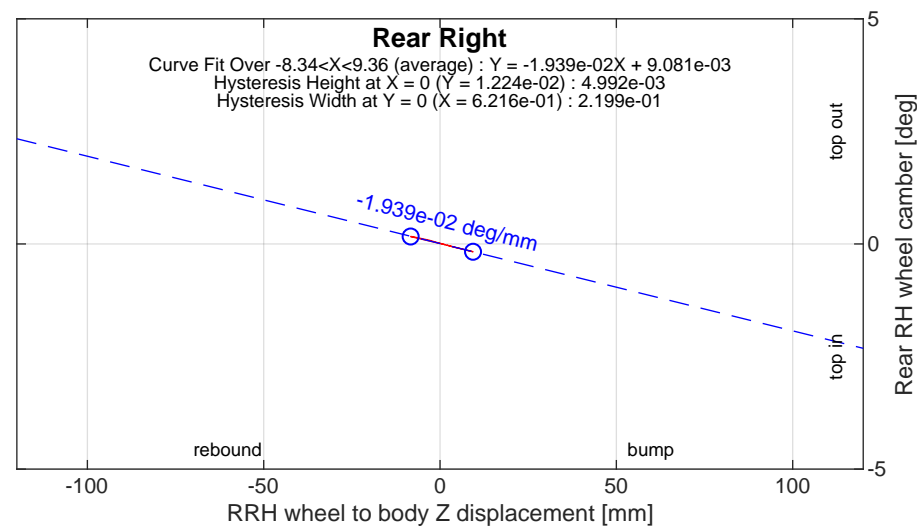
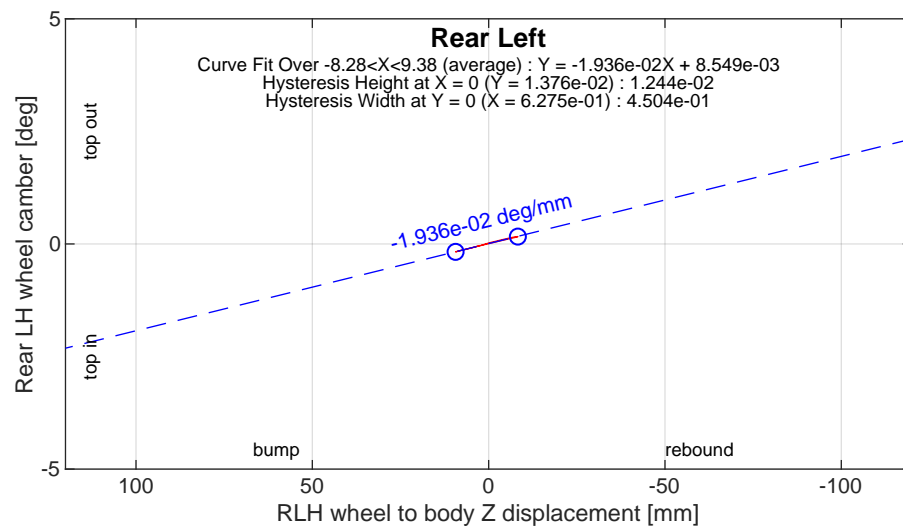
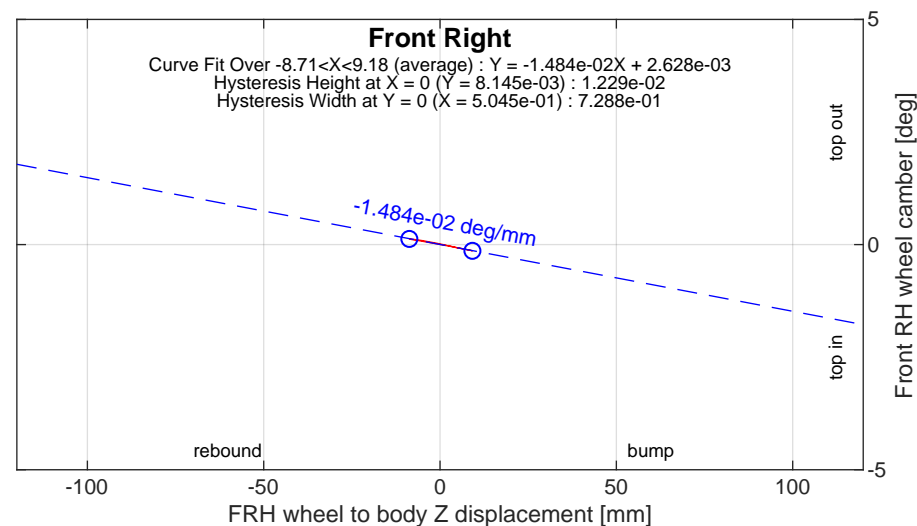
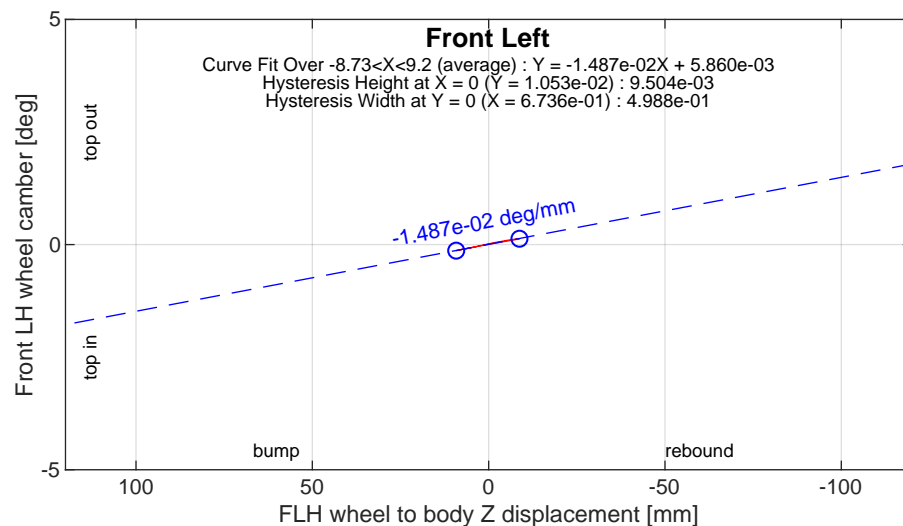
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Bump Camber

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (1.5Hz) : Test #2 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 1.5 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

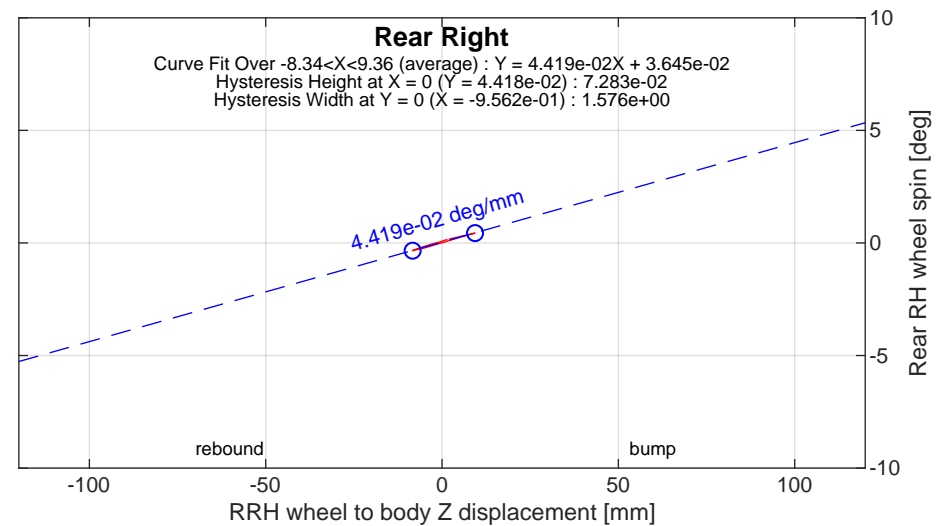
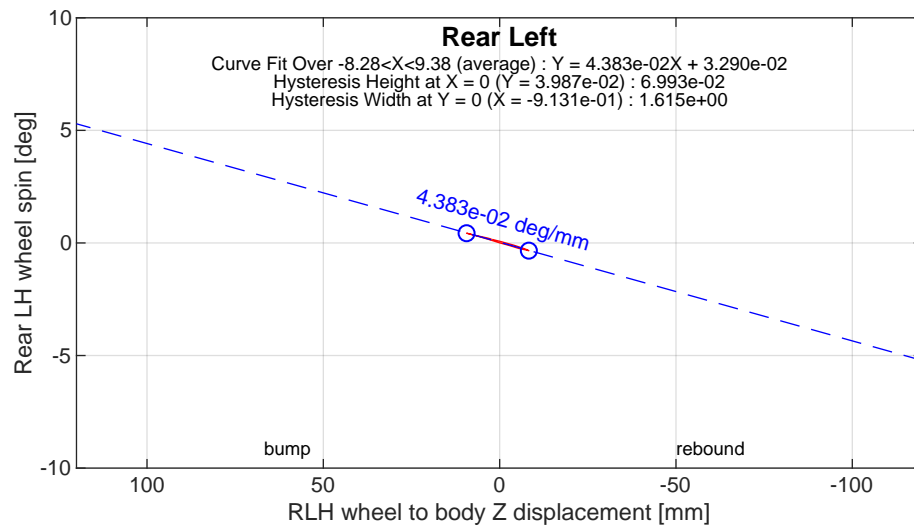
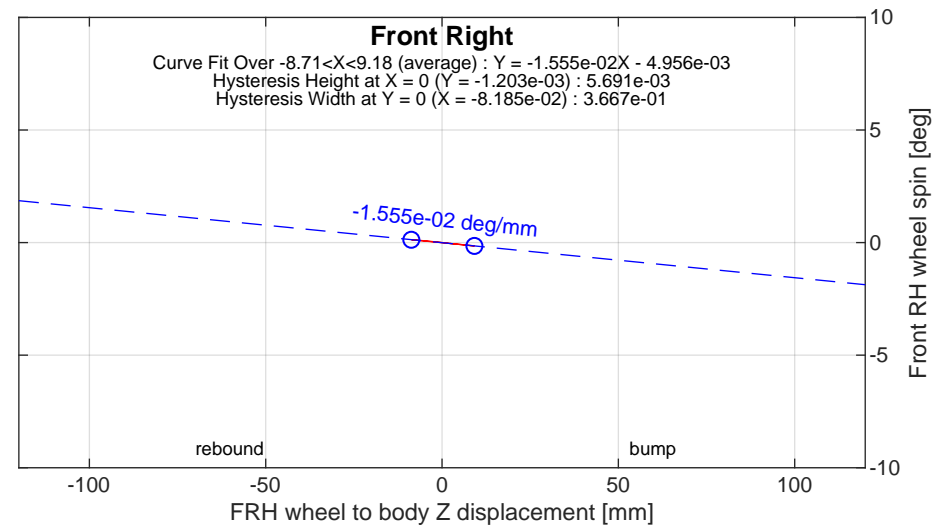
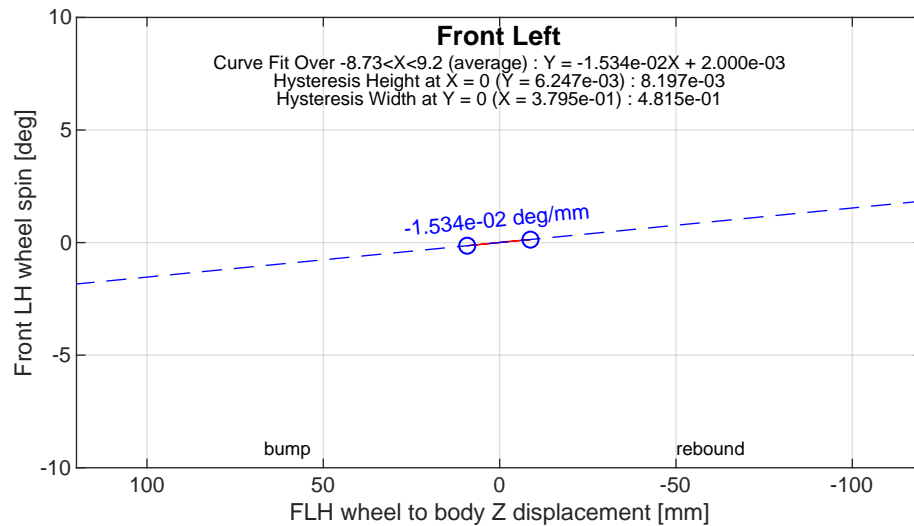
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Bump Spin

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (1.5Hz) : Test #2 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 1.5 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

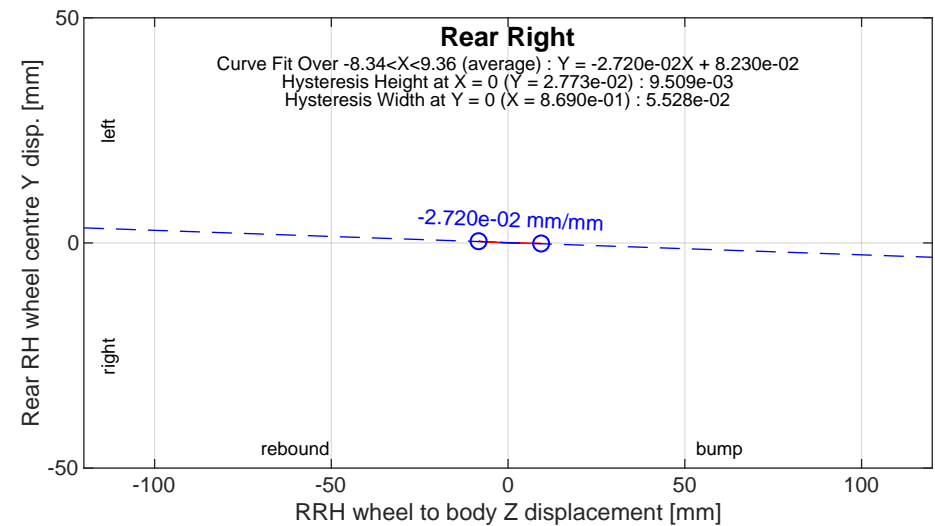
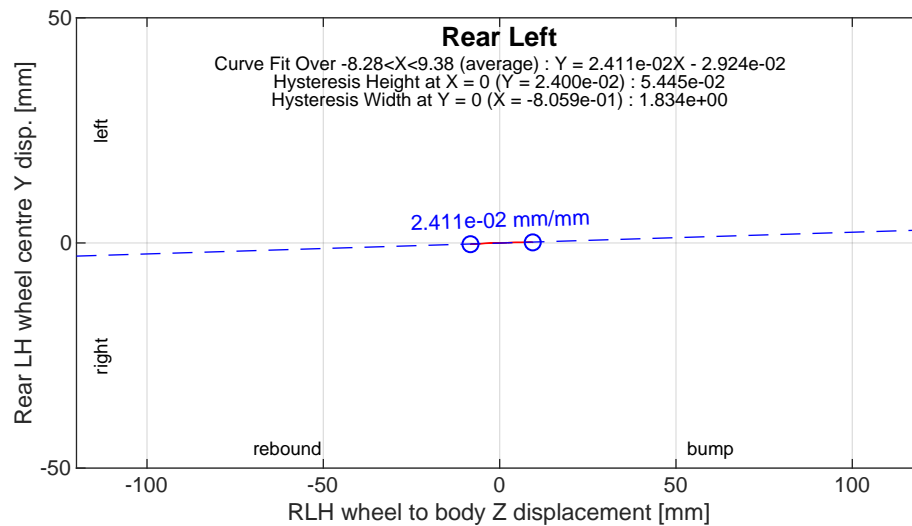
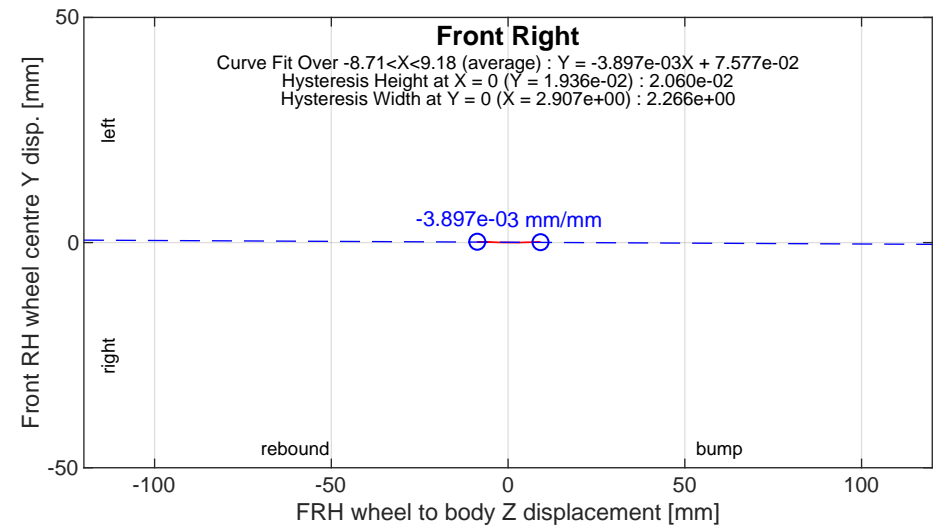
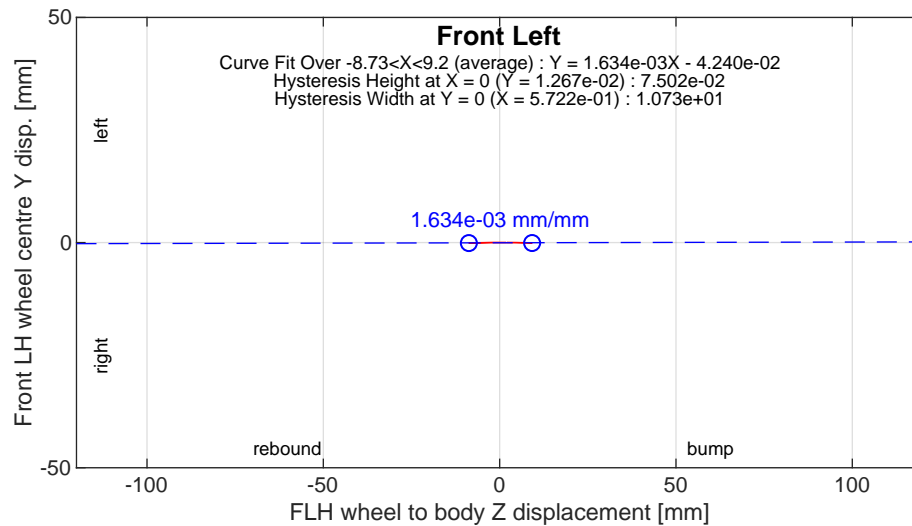
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



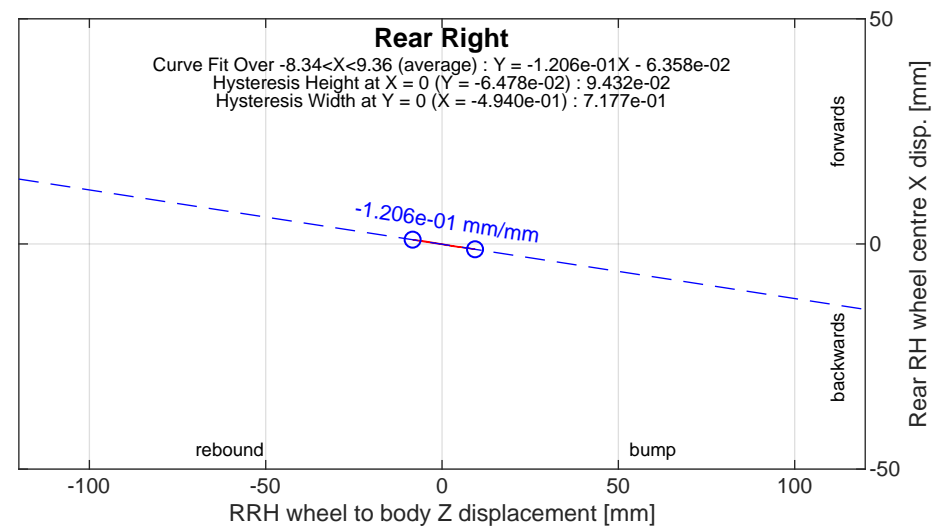
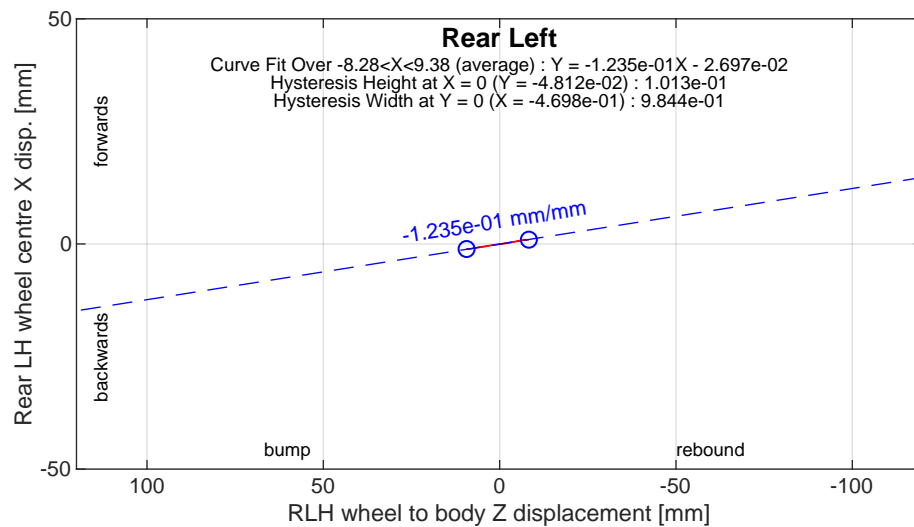
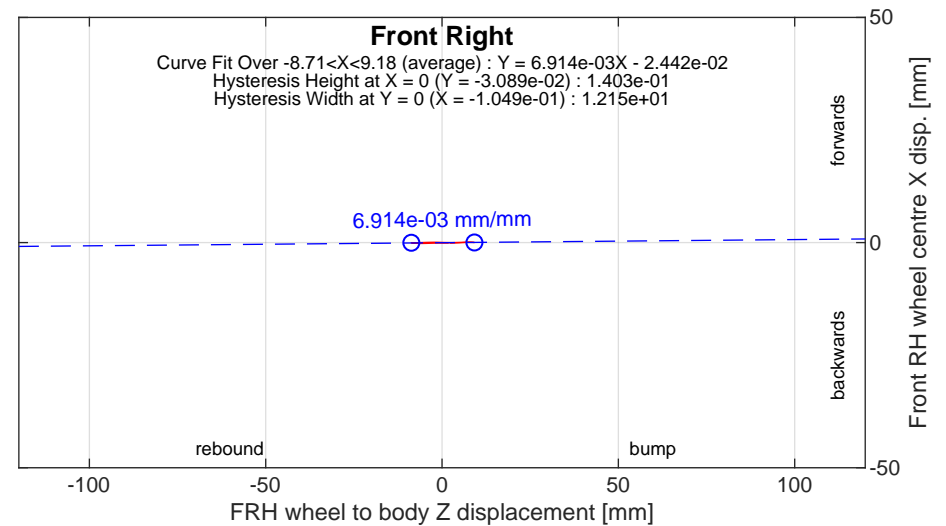
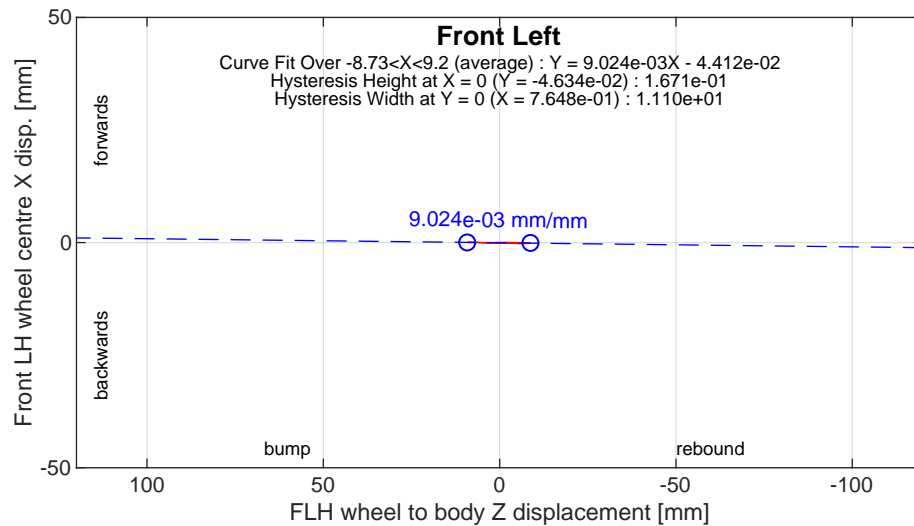
Bounce
Audi Q5
Lateral Wheel Centre Displacement
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1.5Hz) : Test #2 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1.5 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Wheel Recession

Co-ordinate system : ISO Ground-fixed

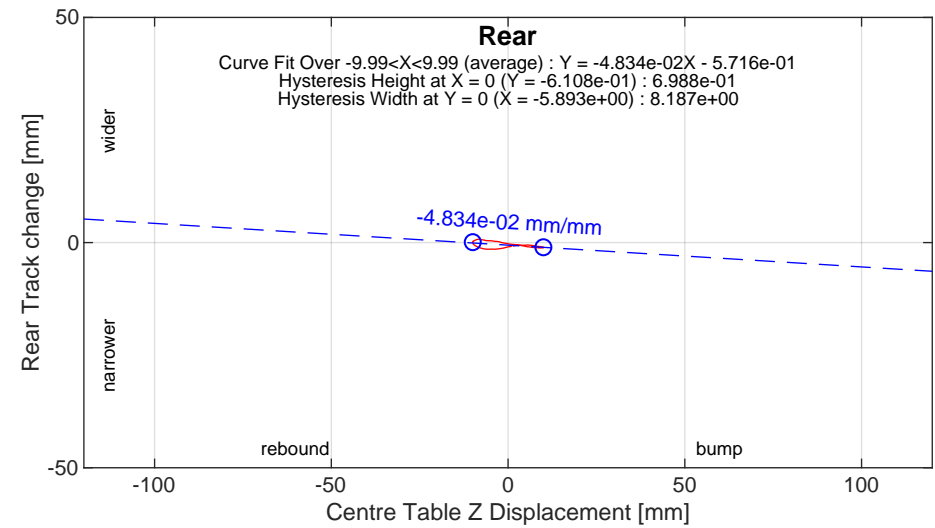
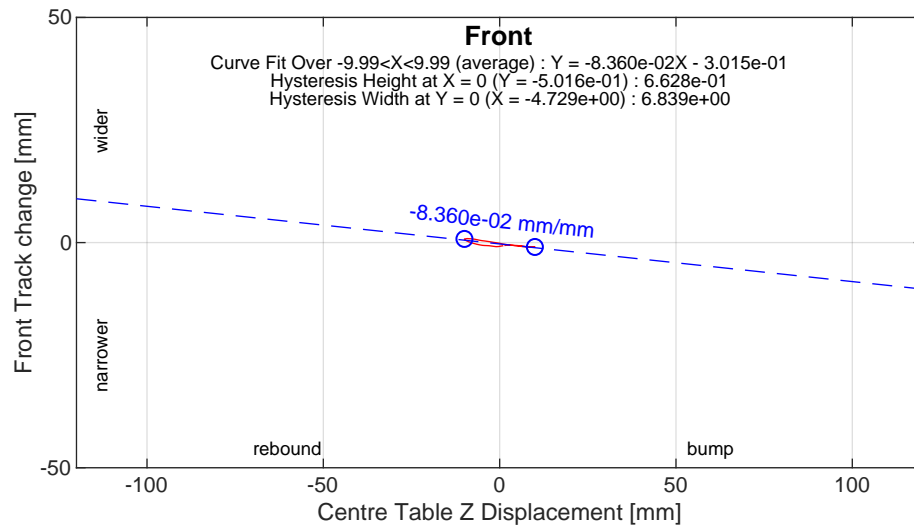
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1.5Hz) : Test #2 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1.5 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Track Change

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (1.5Hz) : Test #2 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 1.5 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

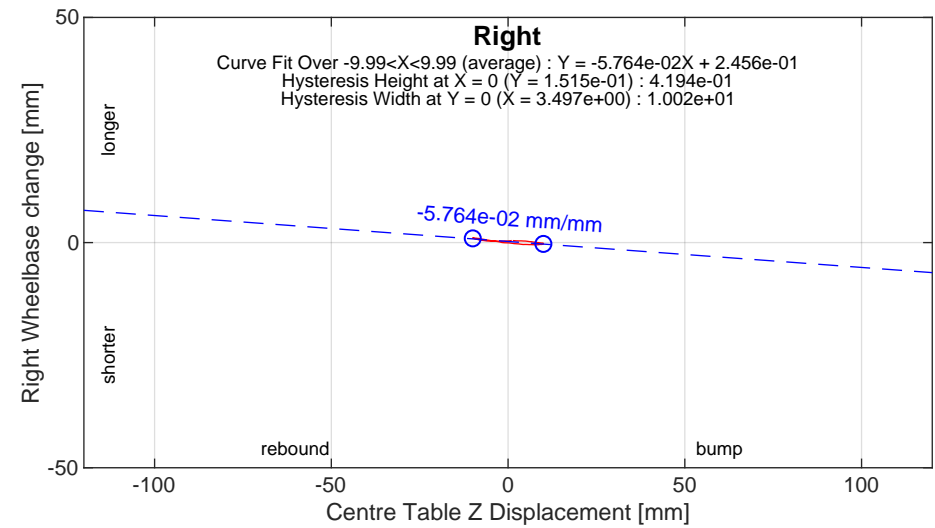
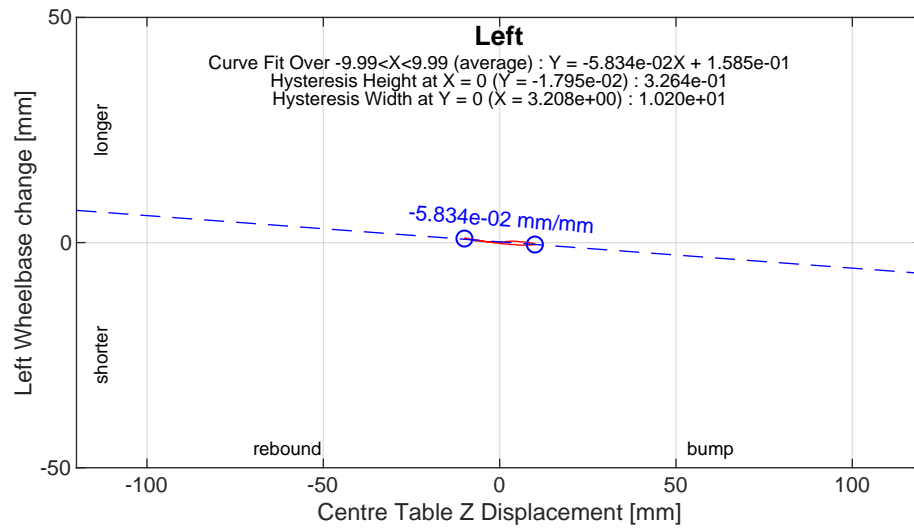
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



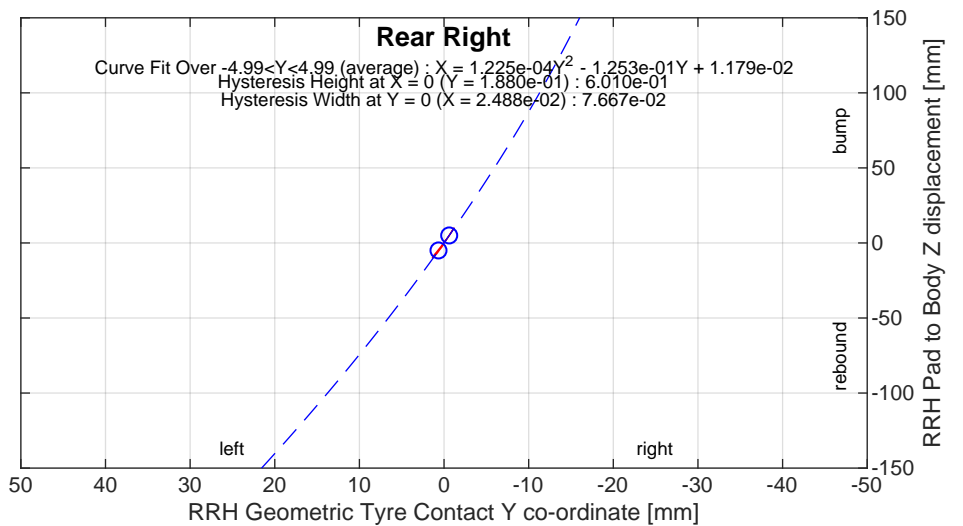
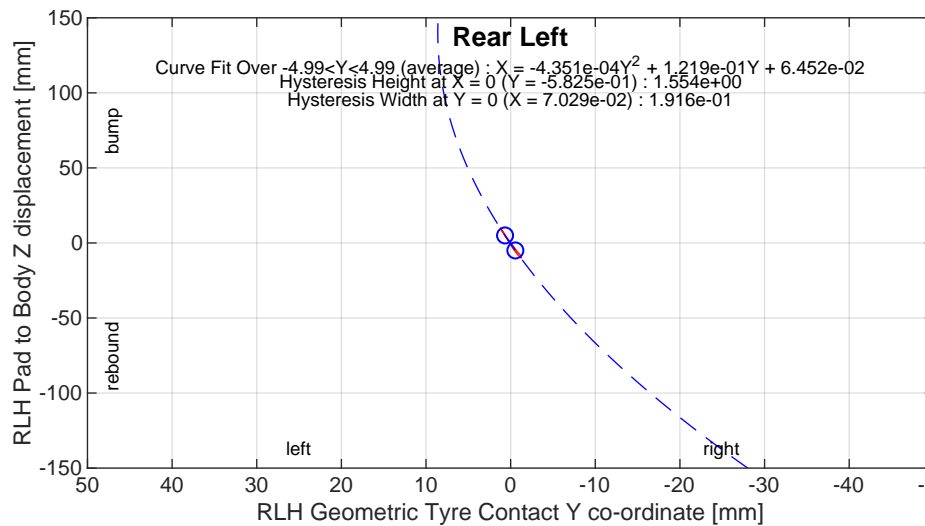
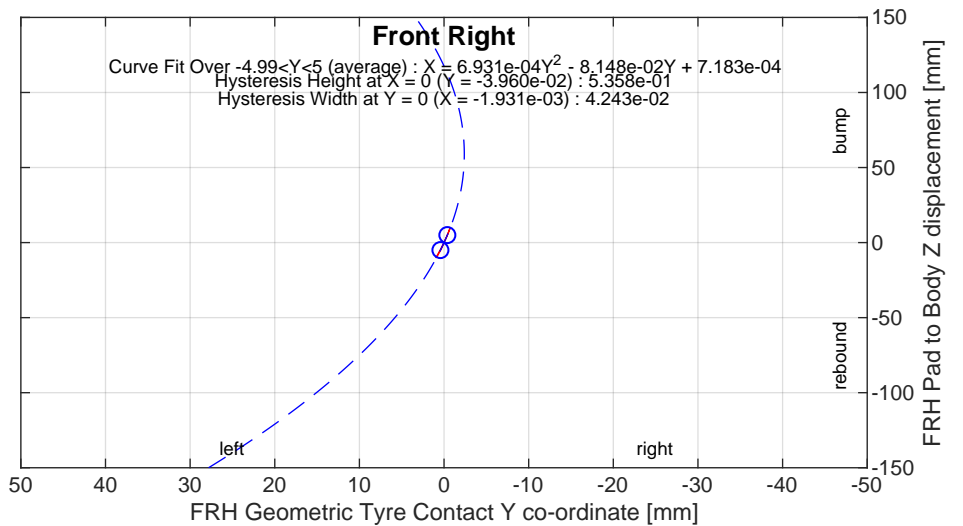
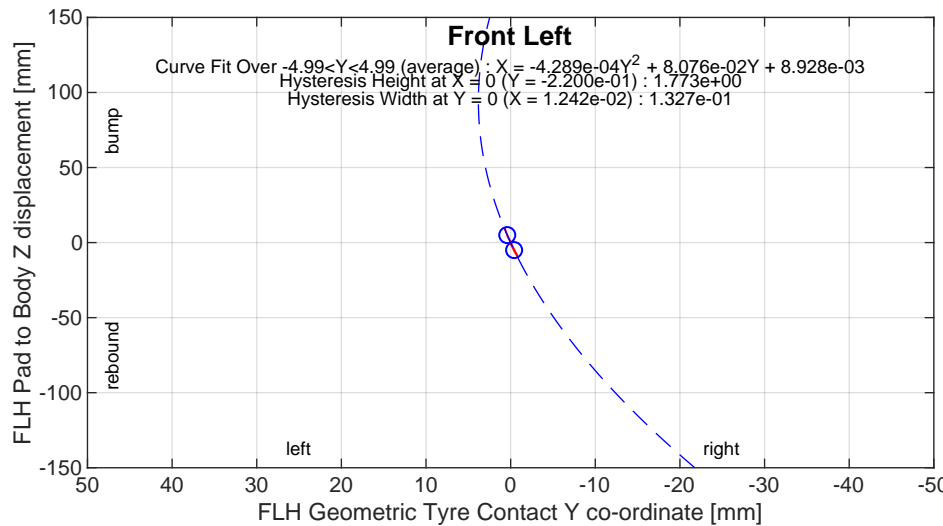
Bounce
Audi Q5
Wheelbase Change
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1.5Hz) : Test #2 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1.5 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Roll Centre Curve Fits

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (1.5Hz) : Test #2 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 1.5 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

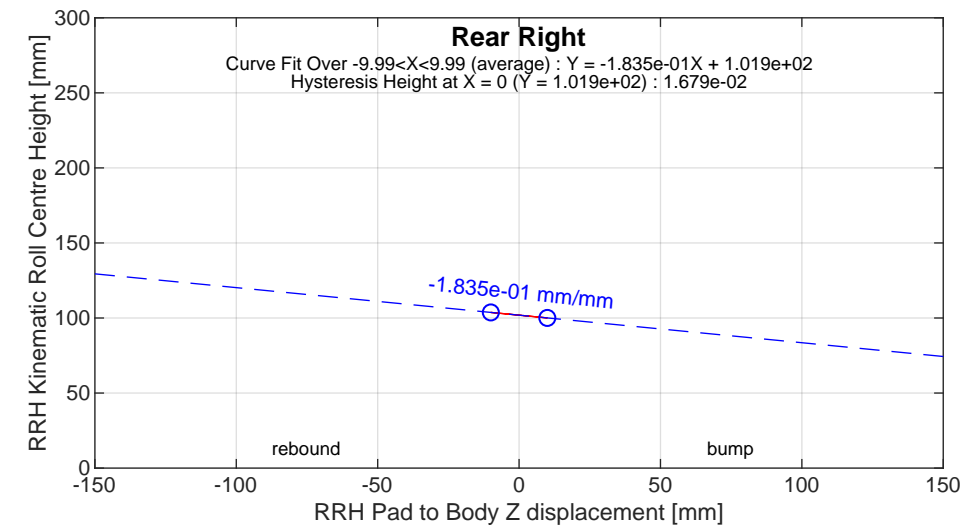
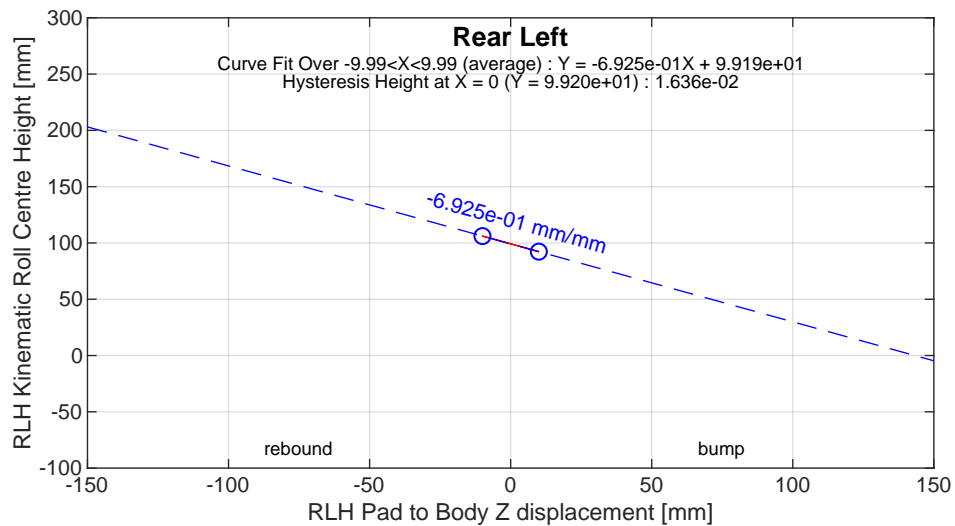
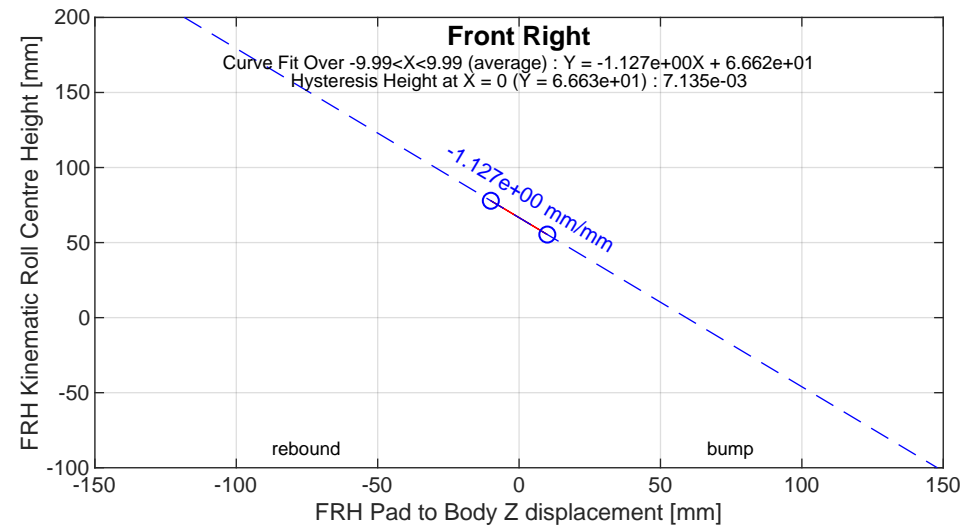
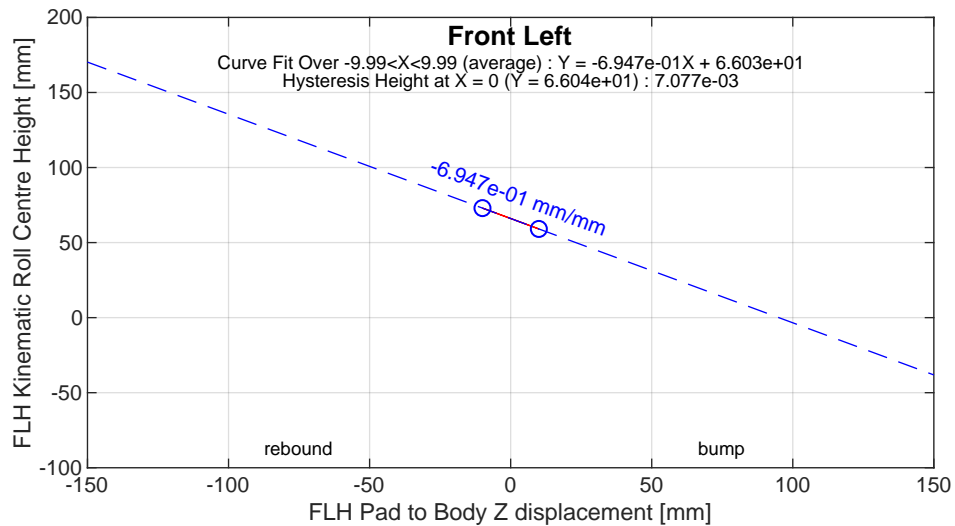
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



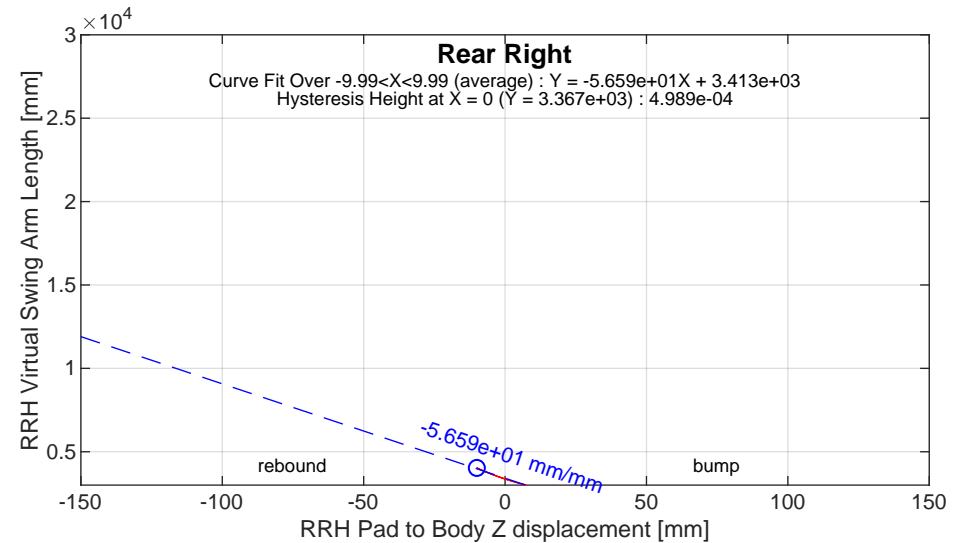
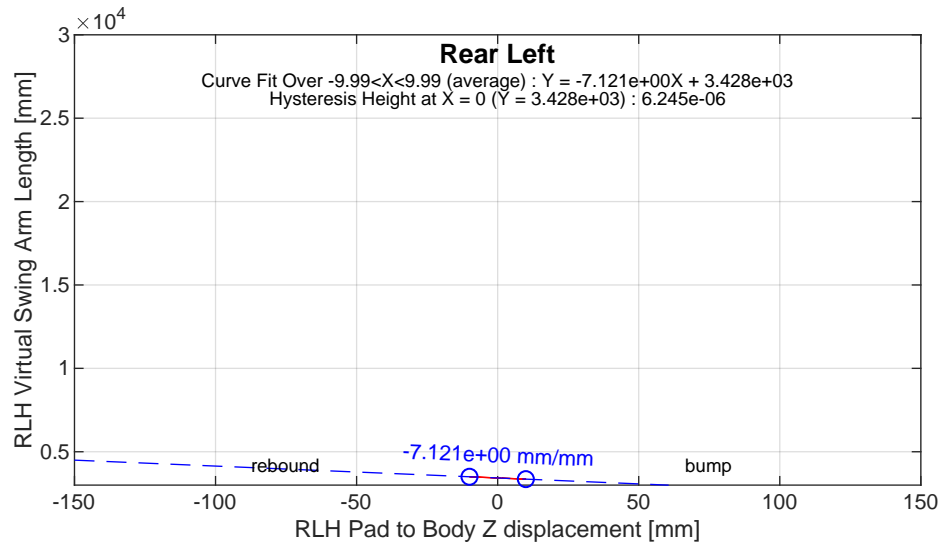
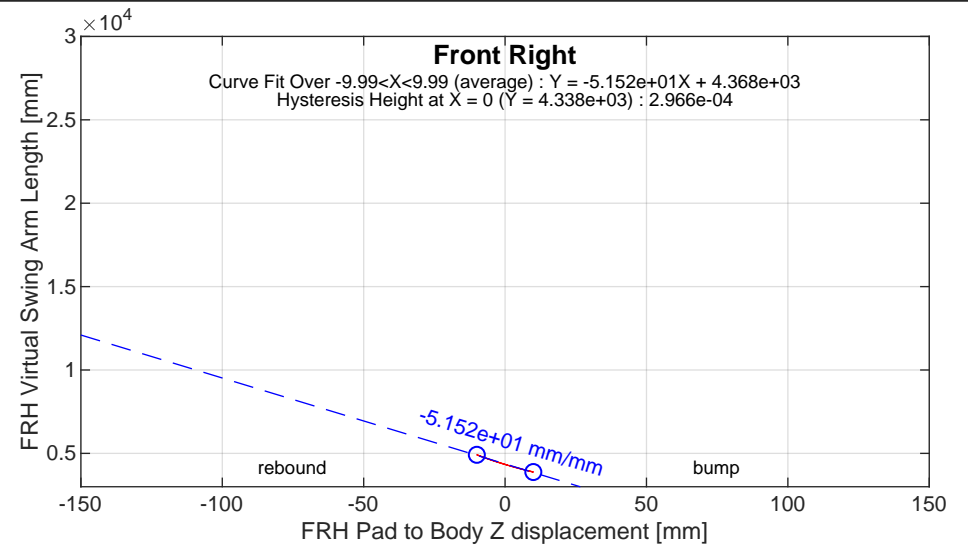
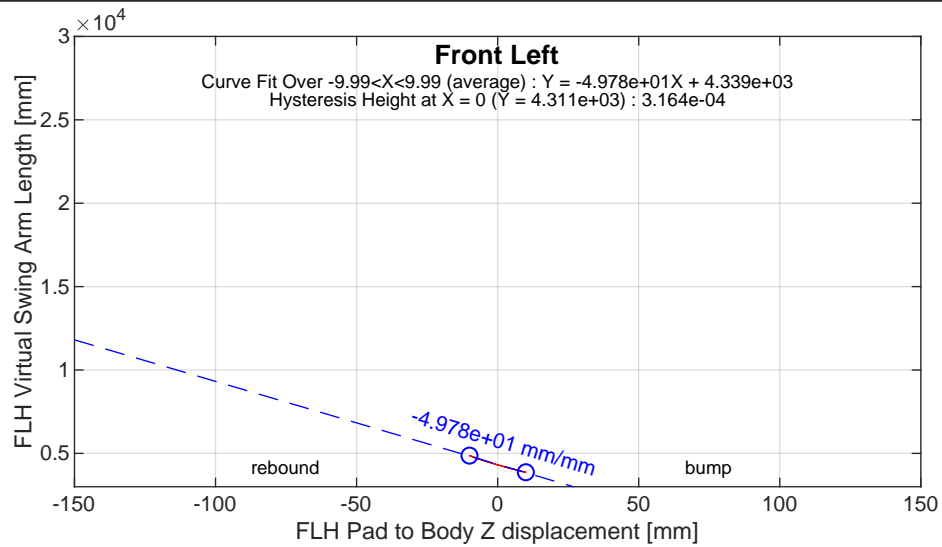
Bounce
Audi Q5
Kinematic Roll Centre Height
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1.5Hz) : Test #2 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1.5 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



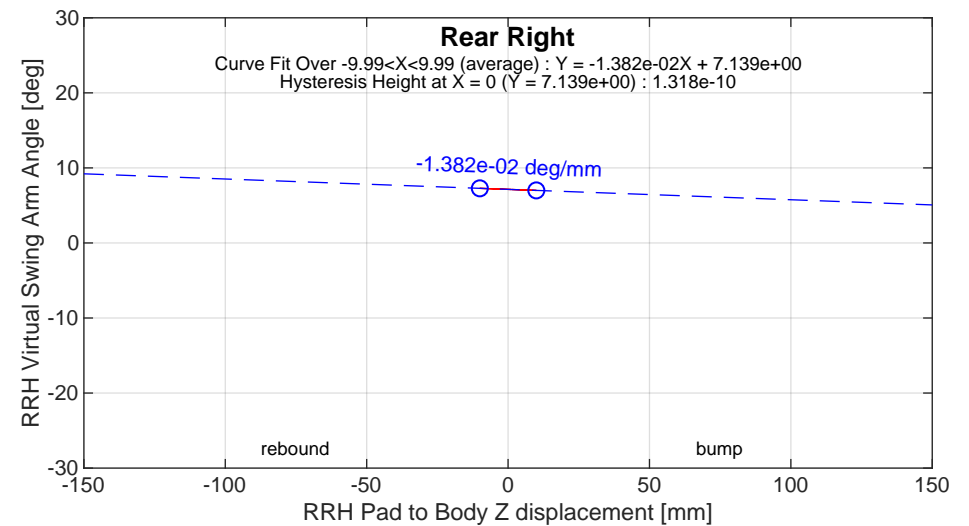
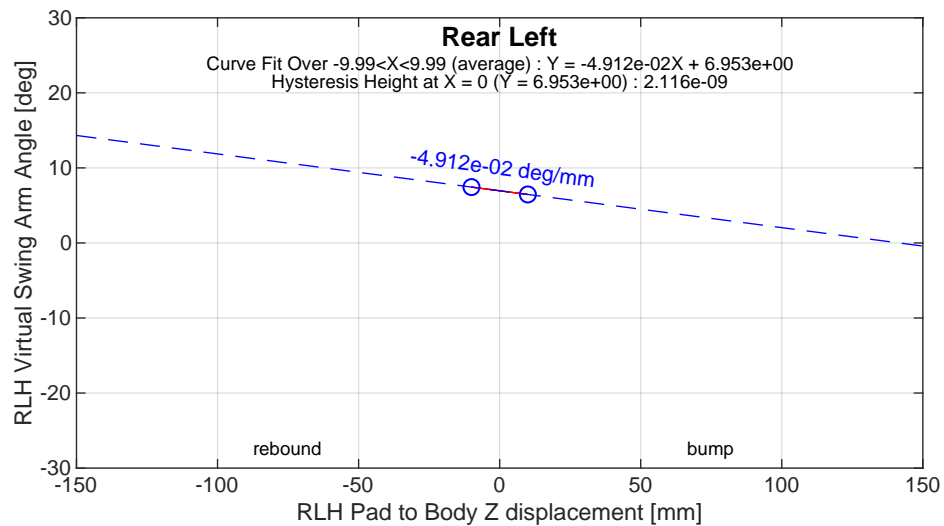
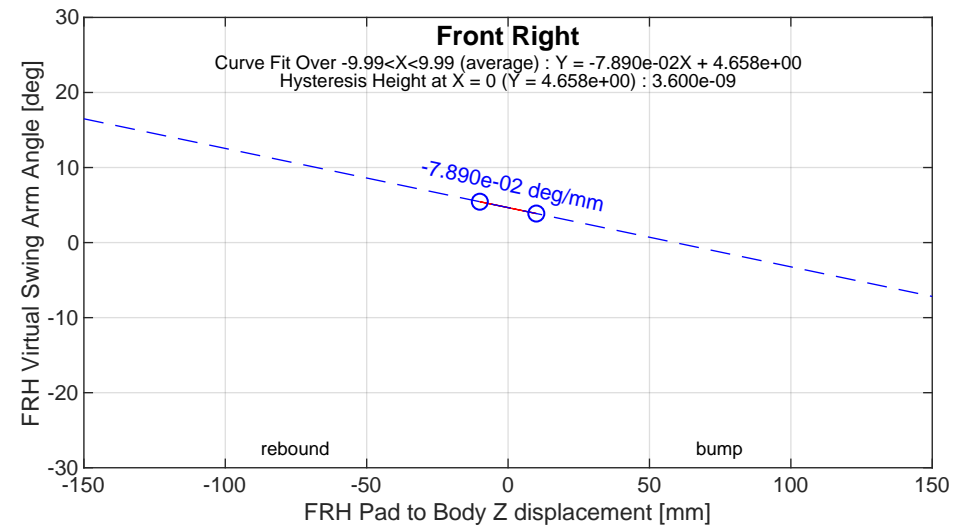
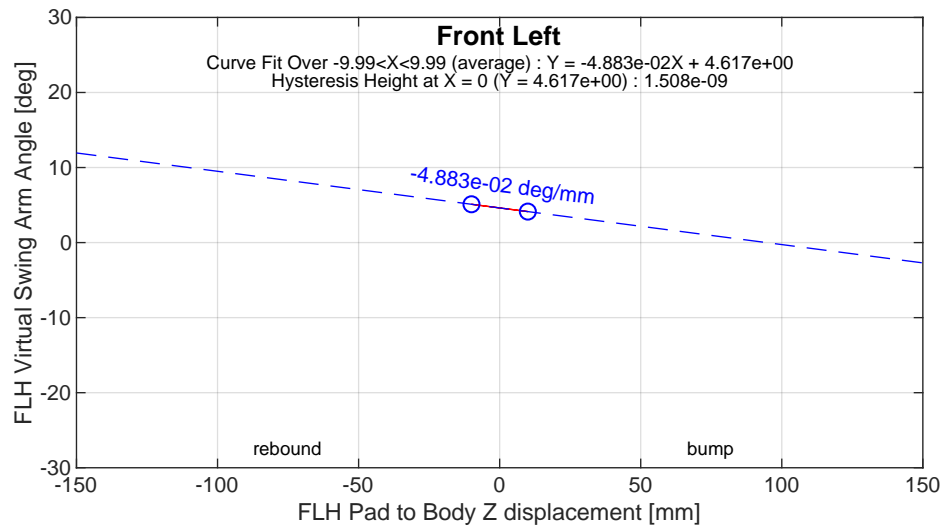
Bounce
Audi Q5
Virtual Swing Arm Length
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1.5Hz) : Test #2 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1.5 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



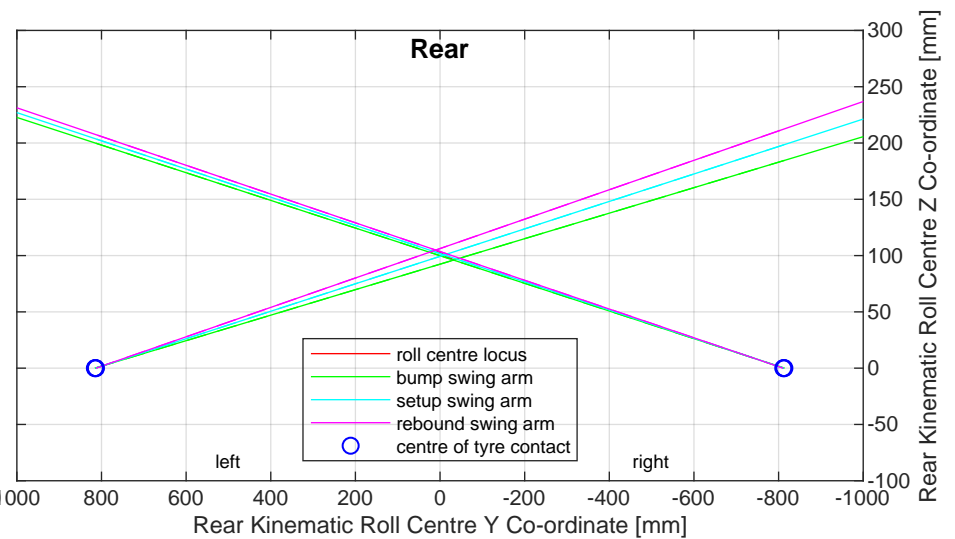
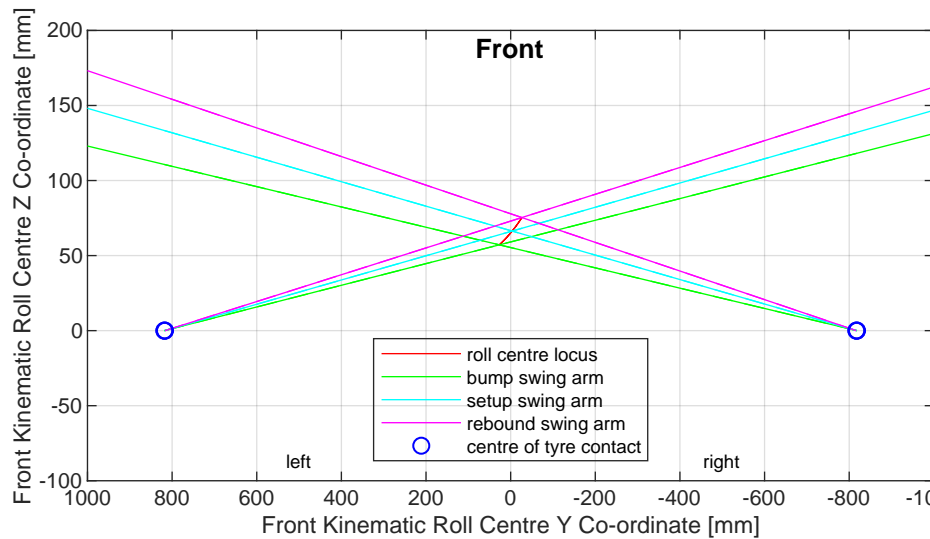
Bounce
Audi Q5
Virtual Swing Arm Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1.5Hz) : Test #2 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1.5 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



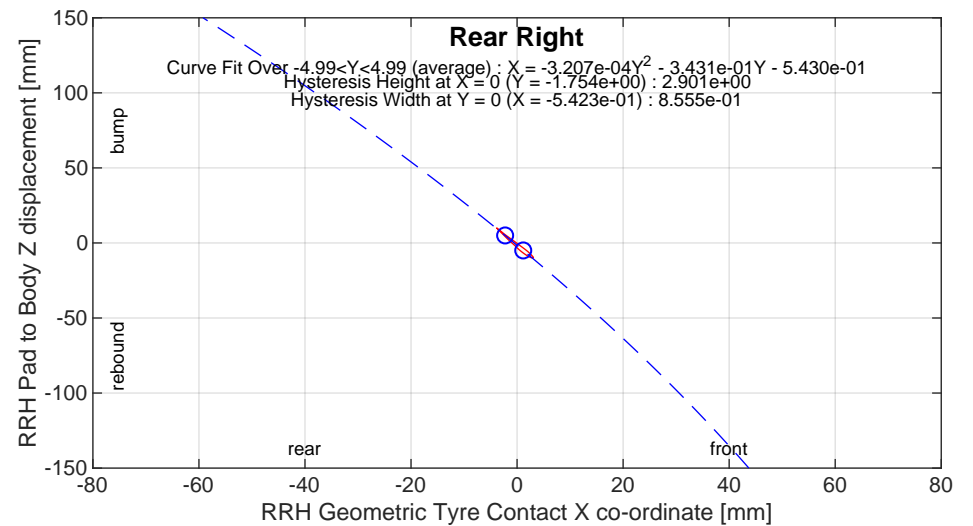
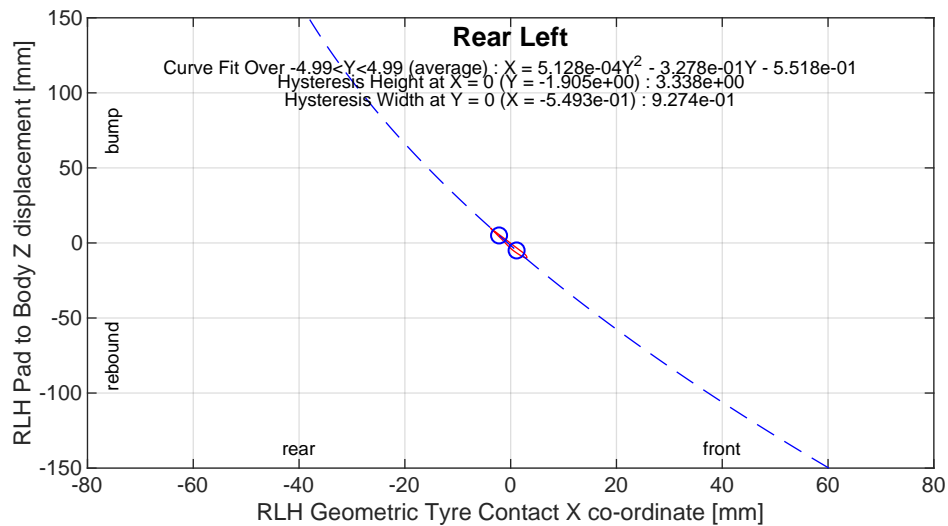
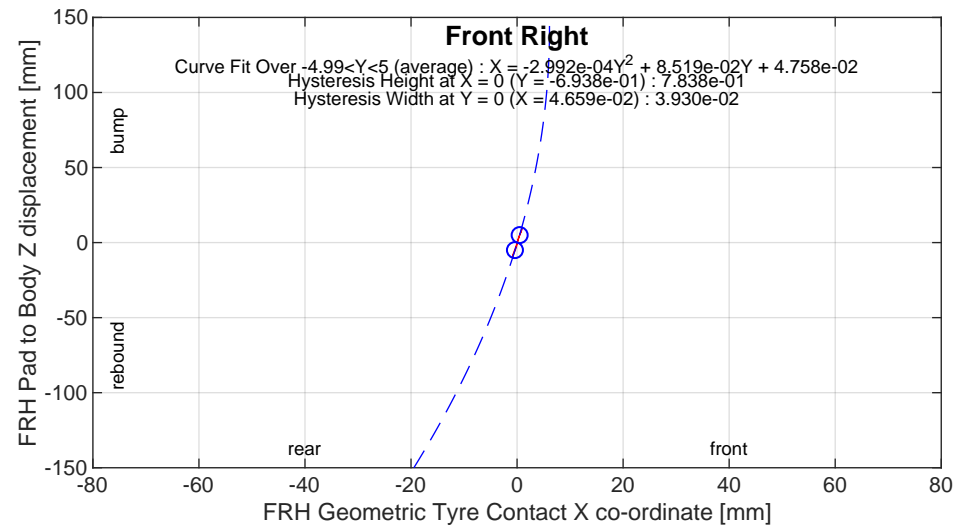
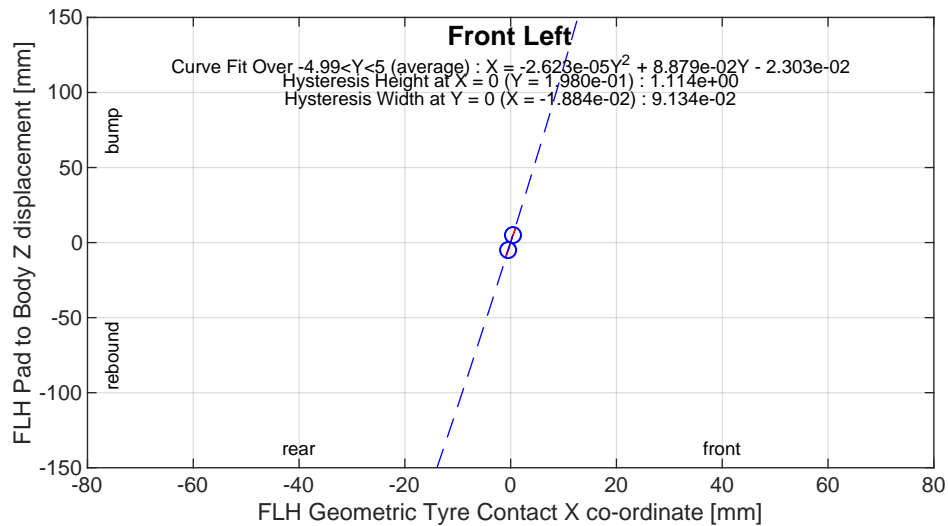
Bounce
Audi Q5
Kinematic Roll Centre Locus
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 6 : Dynamic Tests
 Dynamic Bounce (1.5Hz) : Test #2 of 6
 Test Run #1, Cycle #25
 Input : Sinusoidal, Cycle Frequency : 1.5 Hz
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : No
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



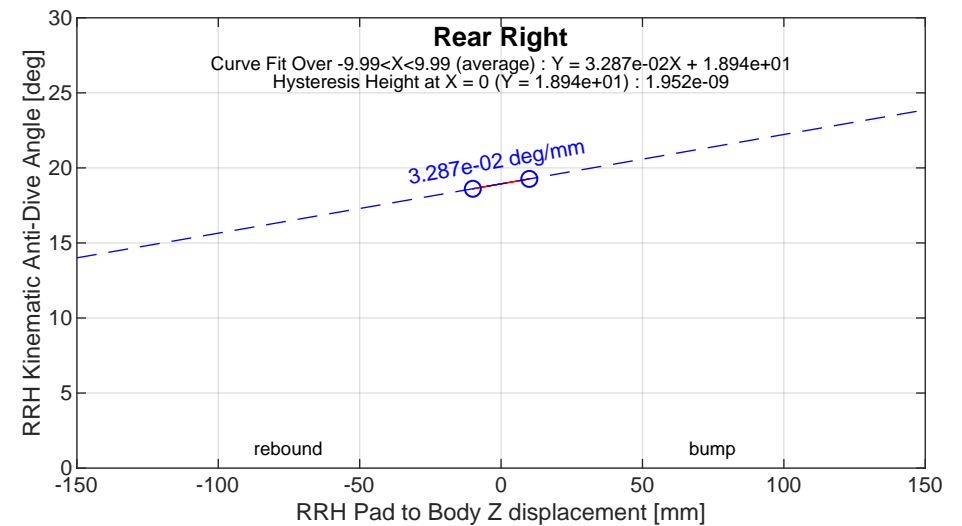
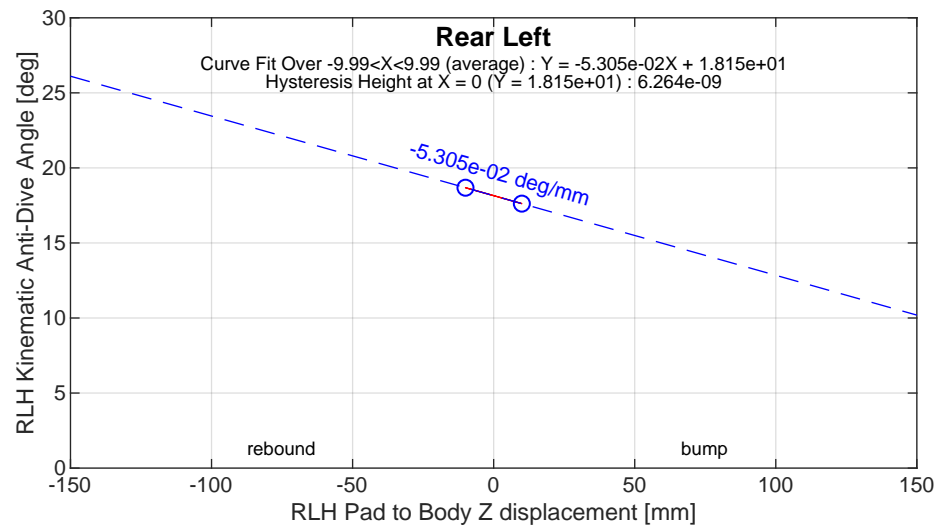
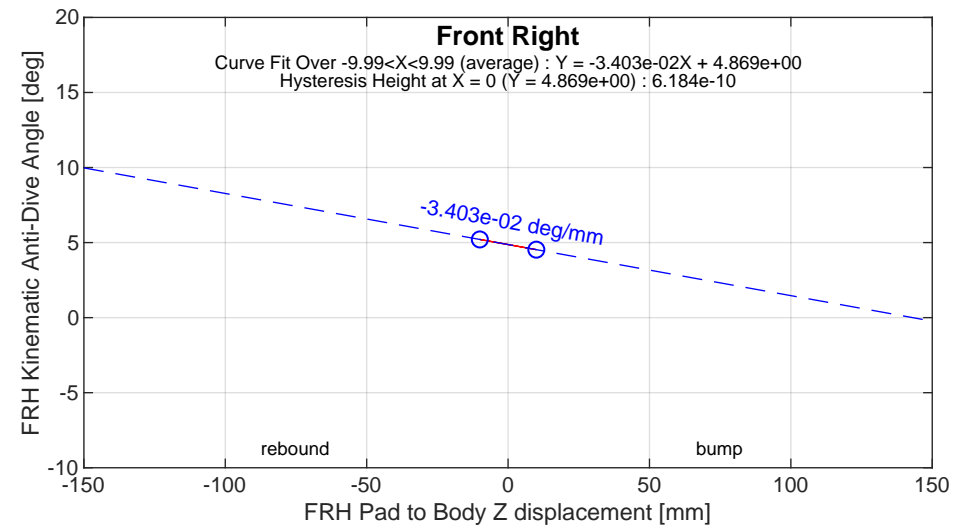
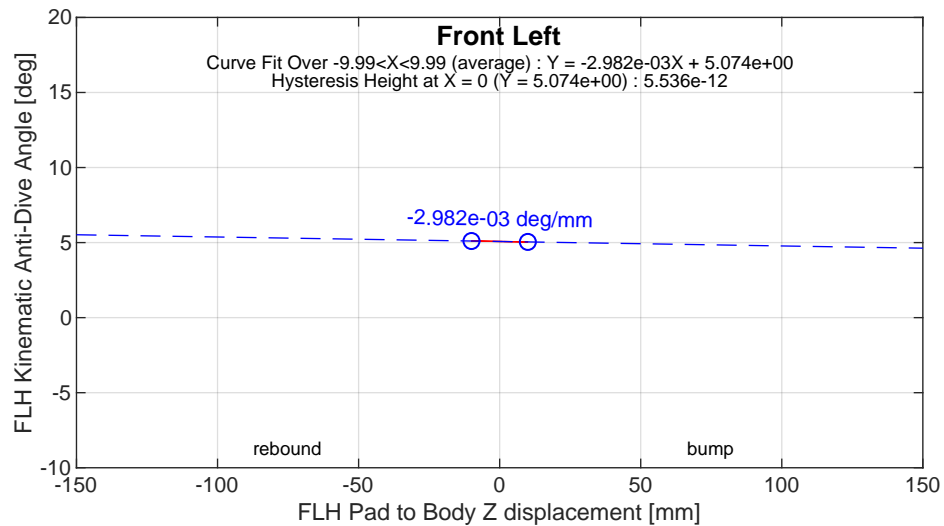
Bounce
Audi Q5
Anti-Dive Curve Fits
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1.5Hz) : Test #2 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1.5 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



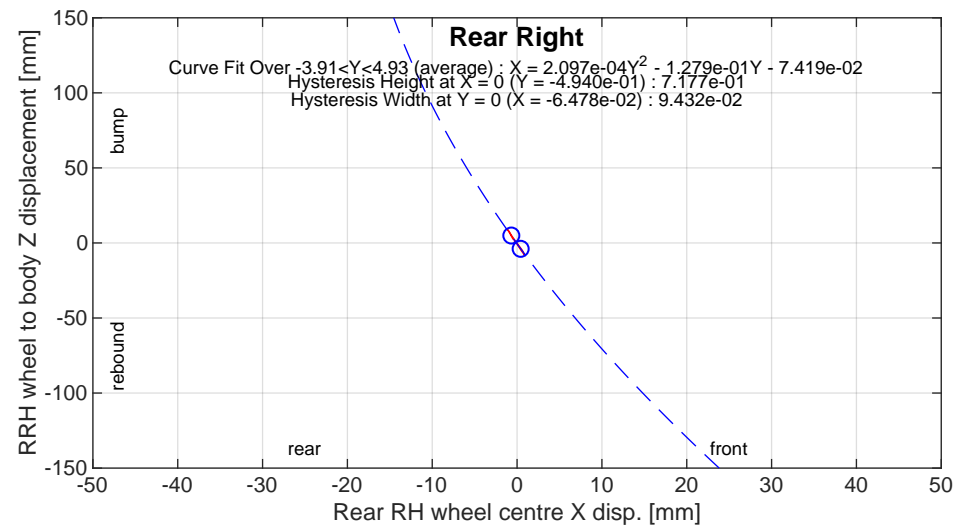
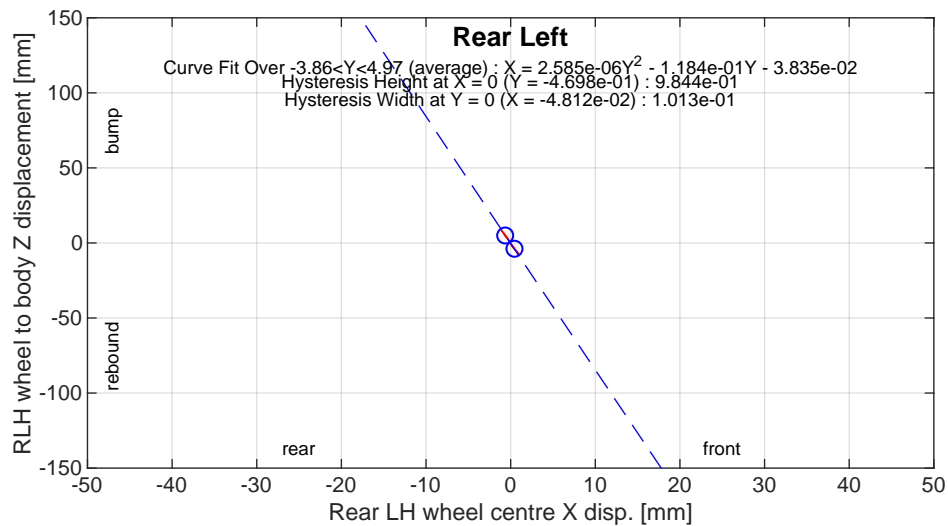
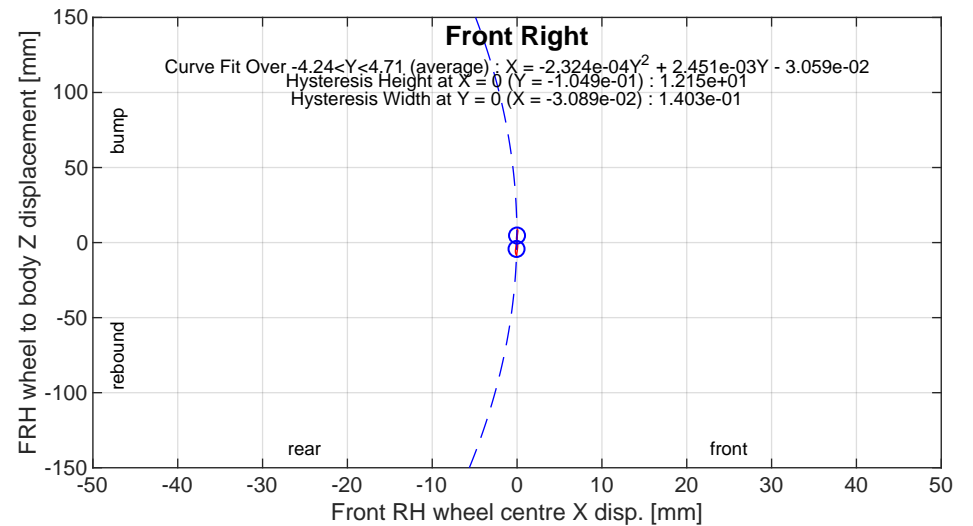
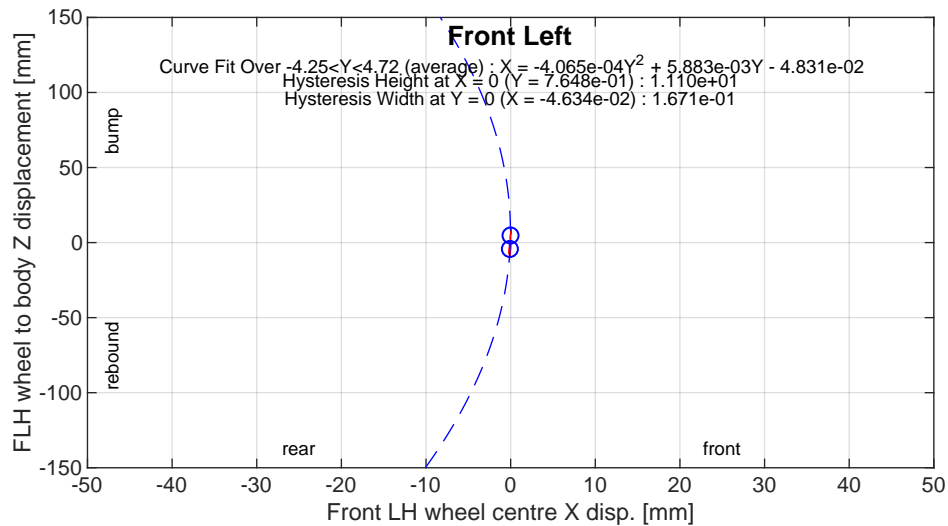
Bounce
Audi Q5
Kinematic Anti-Dive Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1.5Hz) : Test #2 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1.5 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Anti-Squat Curve Fits

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (1.5Hz) : Test #2 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 1.5 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

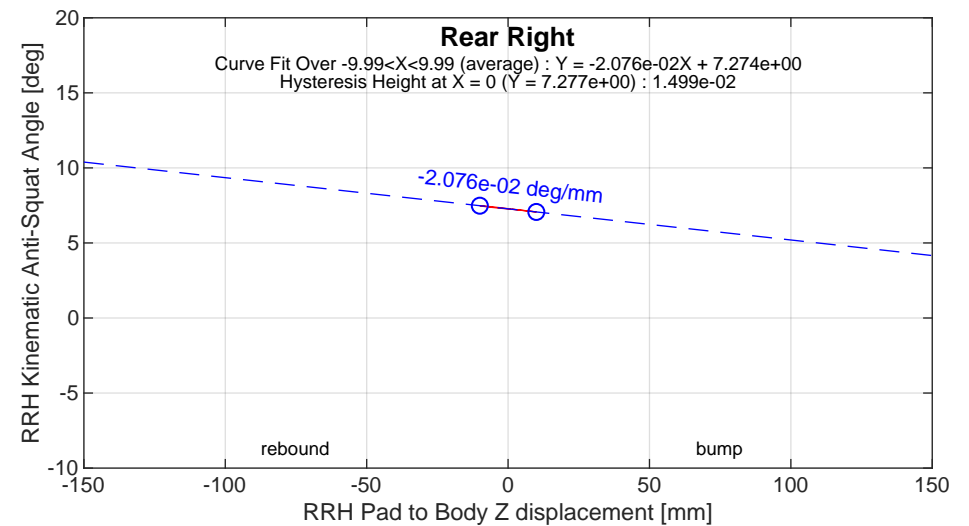
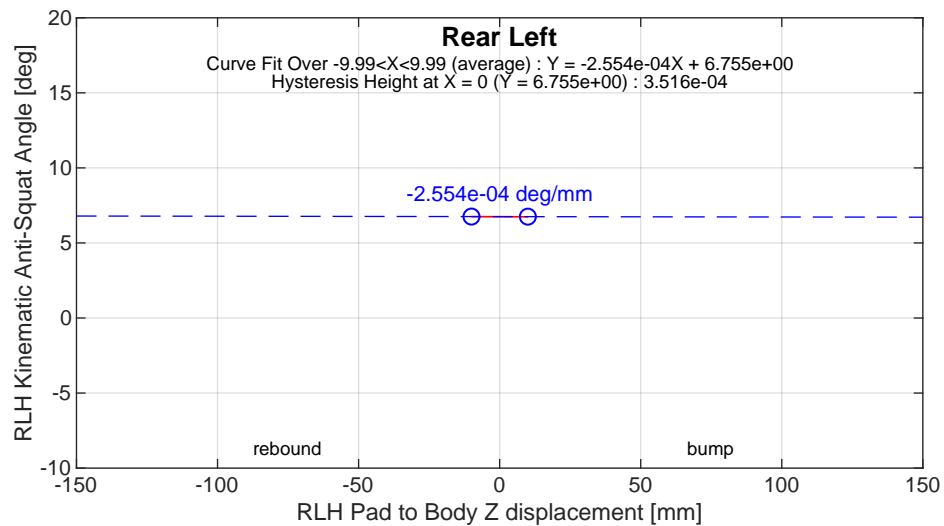
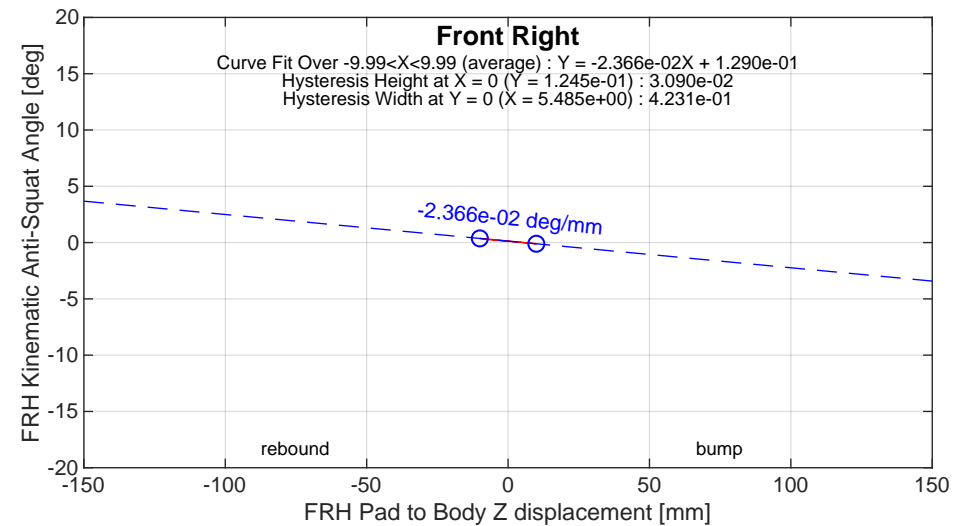
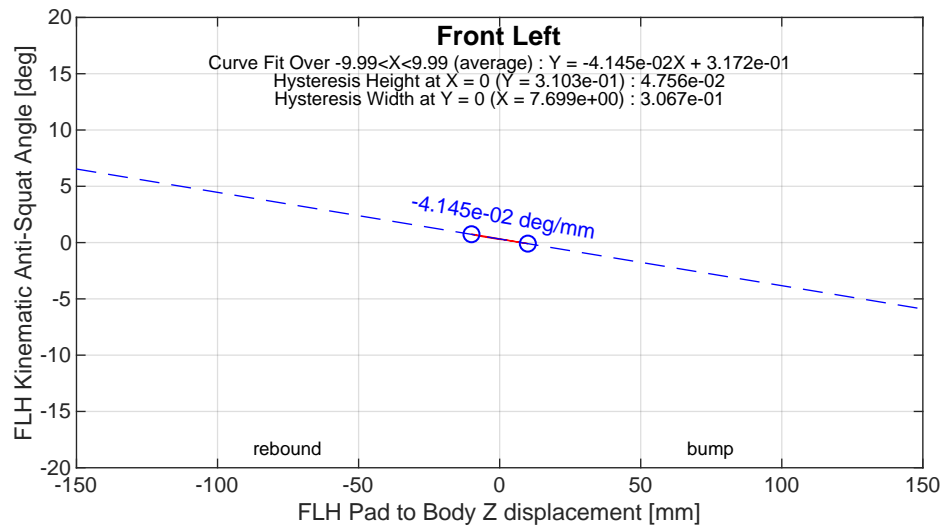
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce
Audi Q5
Kinematic Anti-Squat Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (1.5Hz) : Test #2 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 1.5 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31

Plotted Curve Fit Coefficients

Wheel Rates (FL/FR/RL/RR) [N/mm]:

5.195e+01	4.370e+03
5.039e+01	4.400e+03
5.854e+01	4.581e+03
5.734e+01	4.627e+03

Tyre Radial Rates (FL/FR/RL/RR) [N/mm]:

4.521e+02	4.576e+03
4.456e+02	4.598e+03
4.545e+02	4.895e+03
4.560e+02	4.896e+03

Ride Rates (FL/FR/RL/RR) [N/mm]:

4.801e+01	4.390e+03
4.798e+01	4.413e+03
5.498e+01	4.609e+03
5.355e+01	4.650e+03

Bump Steer (FL/FR/RL/RR) [deg/mm]:

-2.643e-03	-3.058e-02
-3.044e-03	1.139e-04
2.252e-03	4.528e-03
2.979e-03	6.284e-03

Bump Camber (FL/FR/RL/RR) [deg/mm]:

-1.487e-02	5.860e-03
-1.484e-02	2.628e-03
-1.936e-02	8.549e-03
-1.939e-02	9.081e-03

Bump Spin (FL/FR/RL/RR) [deg/mm]:

-1.534e-02	2.000e-03
-1.555e-02	-4.956e-03
4.383e-02	3.290e-02
4.419e-02	3.645e-02

Lateral Wheel Centre Displacement (FL/FR/RL/RR) [mm/mm]:

1.634e-03	-4.240e-02
-3.897e-03	7.577e-02
2.411e-02	-2.924e-02
-2.720e-02	8.230e-02

Wheel Recession (FL/FR/RL/RR) [mm/mm]:

9.024e-03	-4.412e-02
6.914e-03	-2.442e-02
-1.235e-01	-2.697e-02
-1.206e-01	-6.358e-02

Track Change (F/R) [mm/mm]:

-8.360e-02	-3.015e-01
-4.834e-02	-5.716e-01

Wheelbase Change (L/R) [mm/mm]:

-5.834e-02	1.585e-01
-5.764e-02	2.456e-01

Roll Centre Curve Fits (FL/FR/RL/RR) [mm/mm]:

-4.289e-04	8.076e-02	8.928e-03
6.931e-04	-8.148e-02	7.183e-04
-4.351e-04	1.219e-01	6.452e-02
1.225e-04	-1.253e-01	1.179e-02

Kinematic Roll Centre Height (FL/FR/RL/RR) [mm/mm]:

-6.947e-01	6.603e+01
-1.127e+00	6.662e+01
-6.925e-01	9.919e+01
-1.835e-01	1.019e+02

Virtual Swing Arm Length (FL/FR/RL/RR) [mm/mm]:

-4.978e+01	4.339e+03
-5.152e+01	4.368e+03
-7.121e+00	3.428e+03
-5.659e+01	3.413e+03

Virtual Swing Arm Angle (FL/FR/RL/RR) [deg/mm]:

-4.883e-02	4.617e+00
------------	-----------

-7.890e-02	4.658e+00
-4.912e-02	6.953e+00
-1.382e-02	7.139e+00

Anti-Dive Curve Fits (FL/FR/RL/RR) [mm/mm]:

-2.623e-05	8.879e-02	-2.303e-02
-2.992e-04	8.519e-02	4.758e-02
5.128e-04	-3.278e-01	-5.518e-01
-3.207e-04	-3.431e-01	-5.430e-01

Kinematic Anti-Dive Angle (FL/FR/RL/RR) [deg/mm]:

-2.982e-03	5.074e+00
-3.403e-02	4.869e+00
-5.305e-02	1.815e+01
3.287e-02	1.894e+01

Anti-Squat Curve Fits (FL/FR/RL/RR) [mm/mm]:

-4.065e-04	5.883e-03	-4.831e-02
-2.324e-04	2.451e-03	-3.059e-02
2.585e-06	-1.184e-01	-3.835e-02
2.097e-04	-1.279e-01	-7.419e-02

Kinematic Anti-Squat Angle (FL/FR/RL/RR) [deg/mm]:

-4.145e-02	3.172e-01
-2.366e-02	1.290e-01
-2.554e-04	6.755e+00
-2.076e-02	7.274e+00

Calculated Parameters

Kinematic Roll Centre Heights (FL/FR/RL/RR) [mm]:

6.604e+01
6.663e+01
9.920e+01
1.019e+02

Virtual Swing Arm Lengths (FL/FR/RL/RR) [mm]:

4.311e+03
4.338e+03

3.428e+03

3.367e+03

Virtual Swing Arm Angles (FL/FR/RL/RR) [deg]:

4.617e+00

4.658e+00

6.953e+00

7.139e+00

Kinematic Roll Center Height (F/R) [mm]:

6.633e+01

1.005e+02

Kinematic Roll Center Lateral Offset (F/R) [mm]:

-3.566e+00

-9.865e+00

Kinematic Anti-dive Angles (FL/FR/RL/RR) [deg]:

5.074e+00

4.869e+00

1.815e+01

1.894e+01

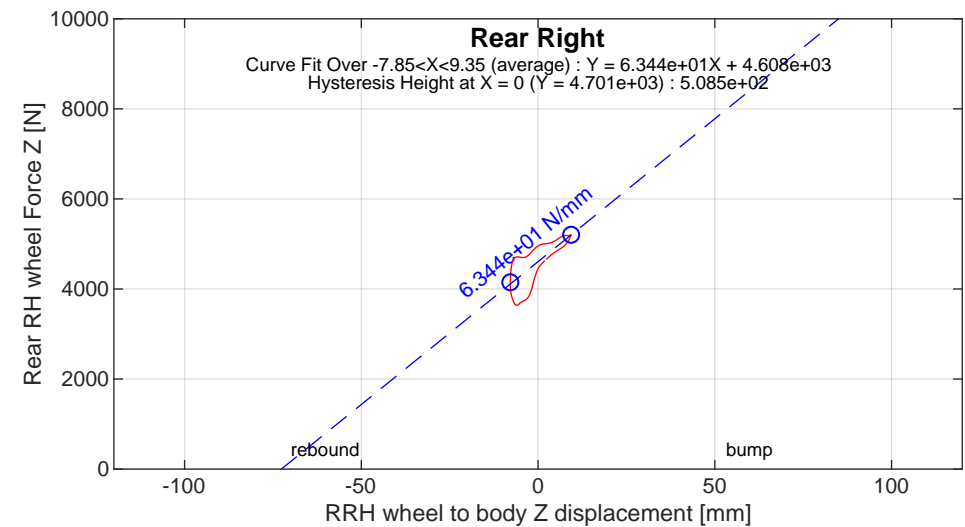
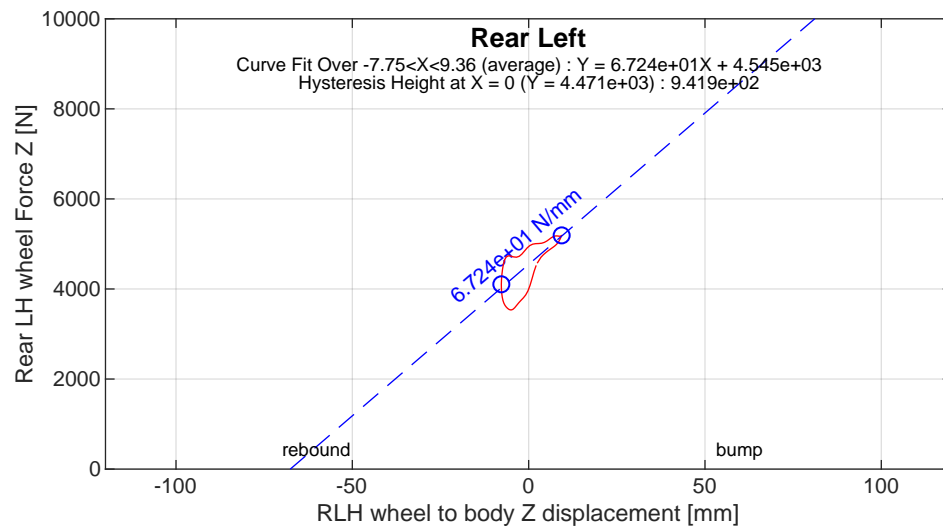
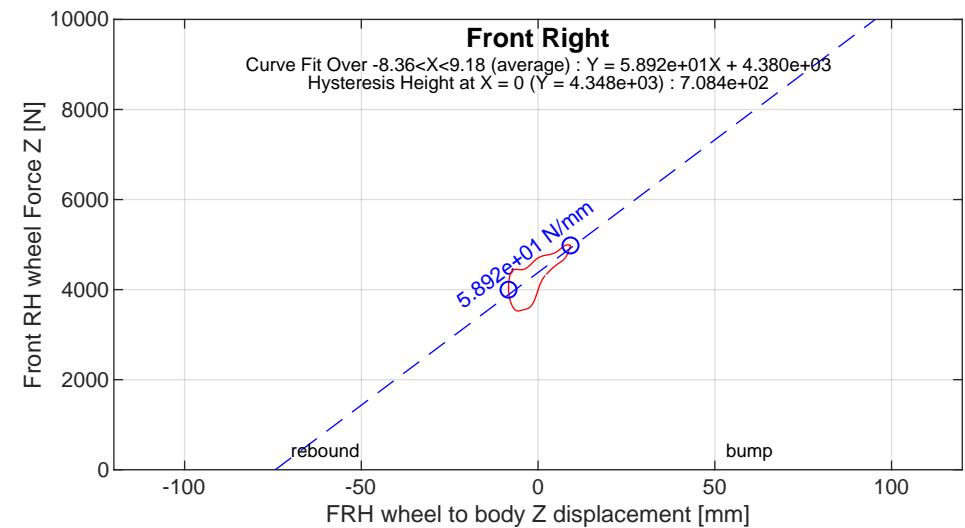
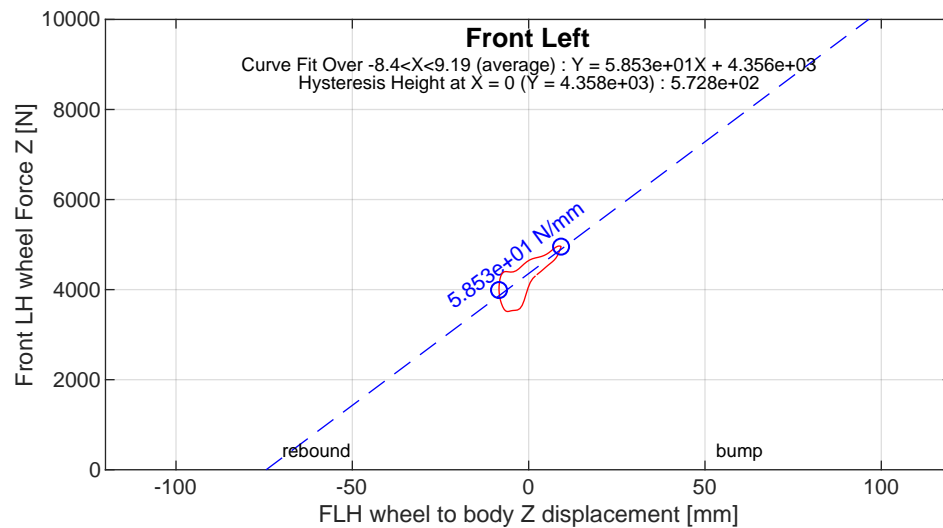
Kinematic Anti-Squat Angles (FL/FR/RL/RR) [deg]:

3.103e-01

1.245e-01

6.755e+00

7.277e+00



Bounce

Audi Q5

Wheel Rates

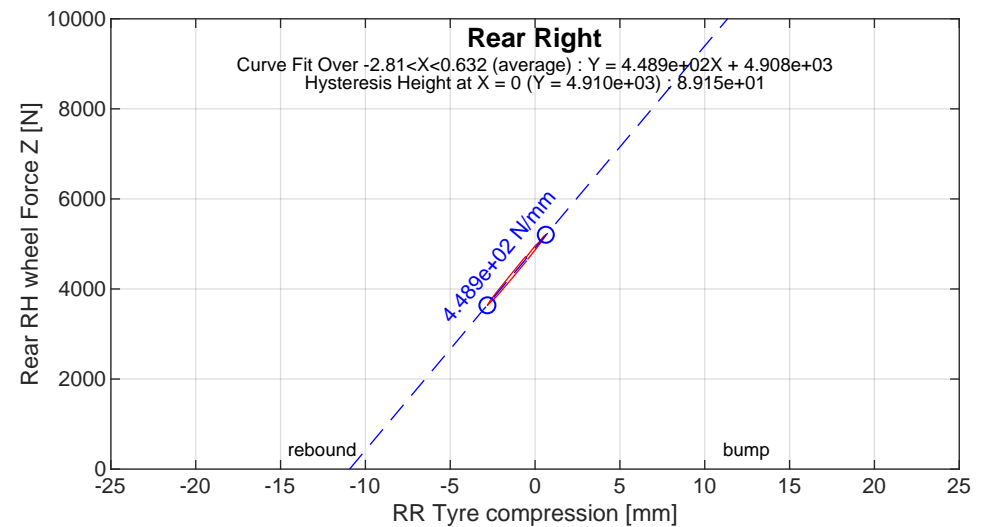
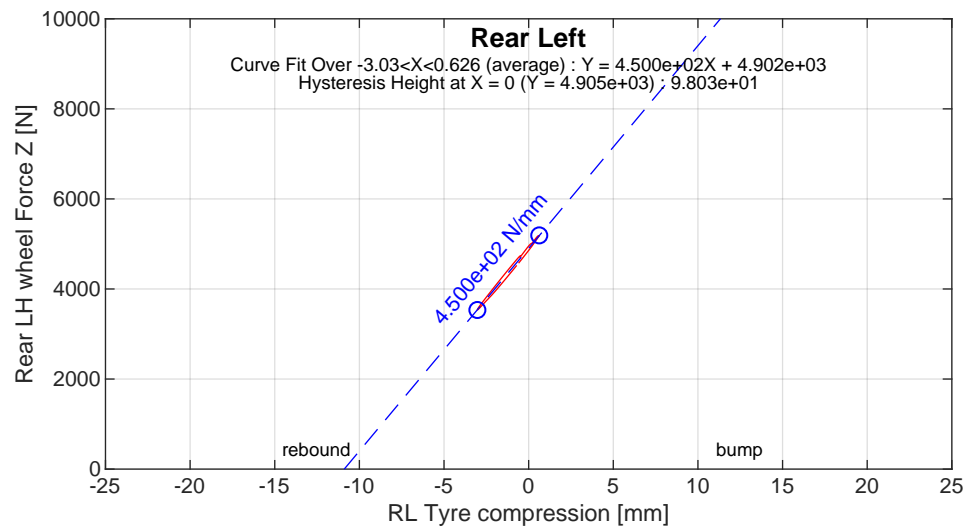
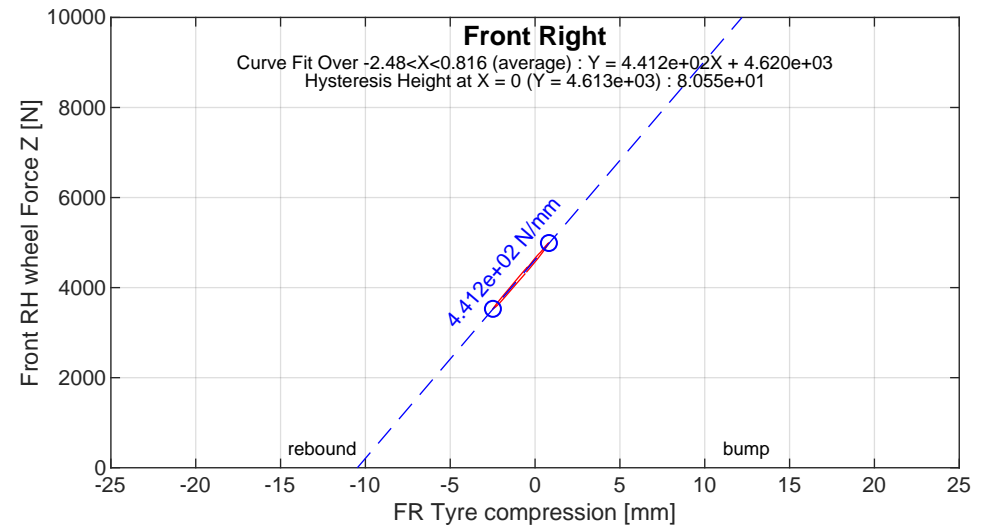
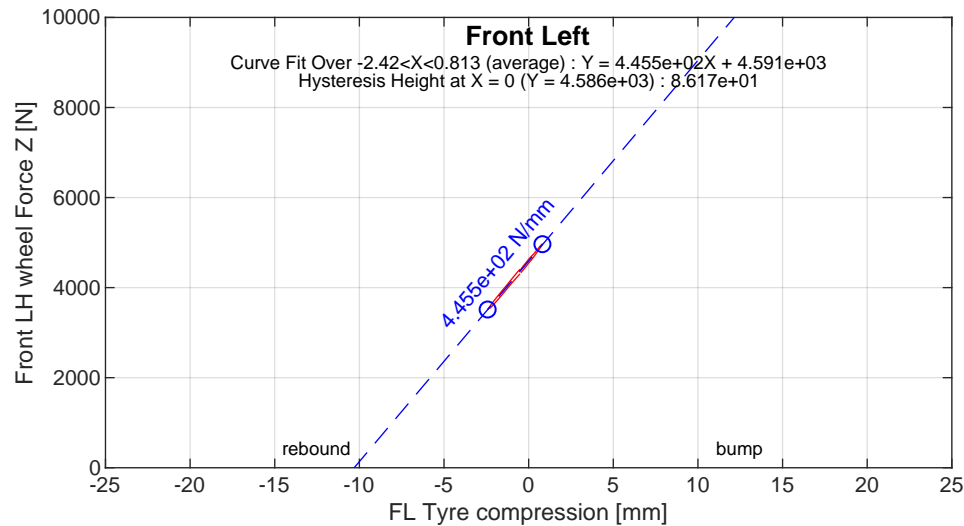
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (2Hz) : Test #3 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 2 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Tyre Radial Rates

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (2Hz) : Test #3 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 2 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

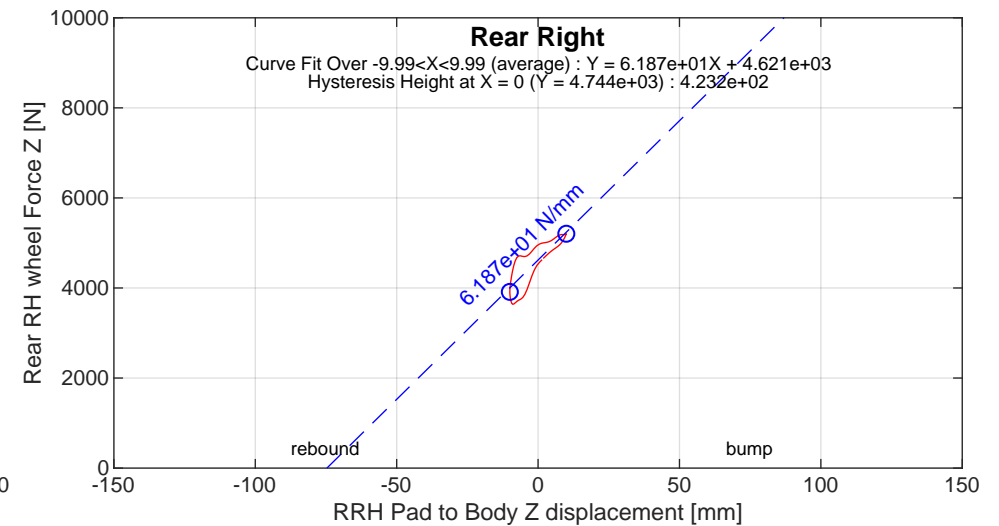
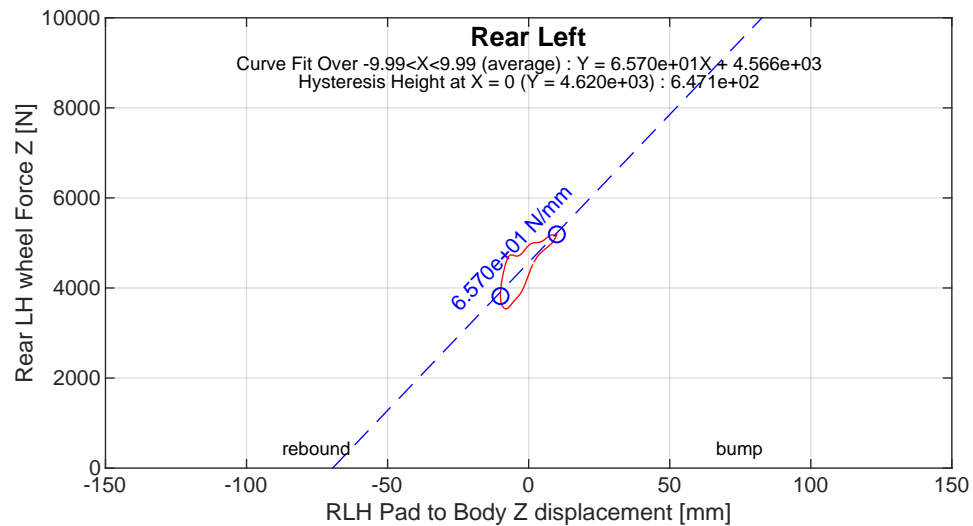
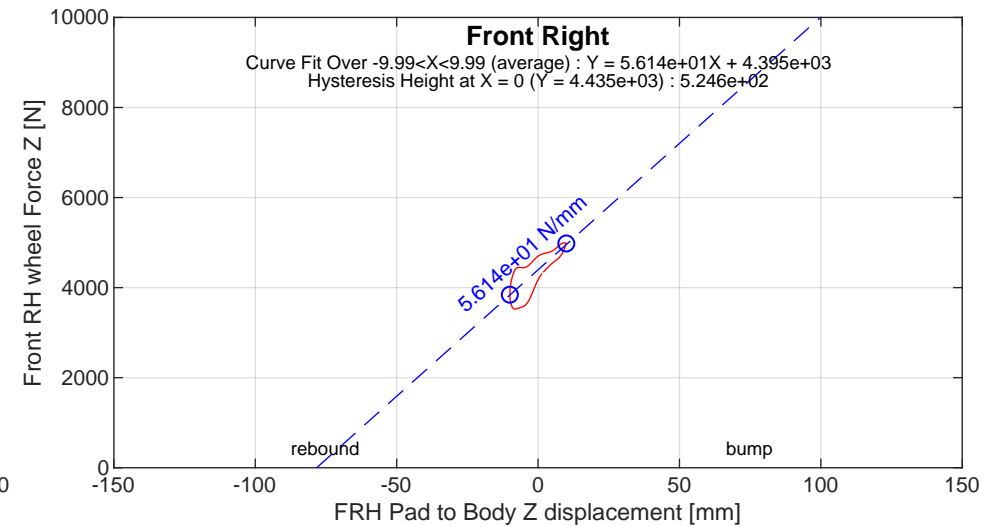
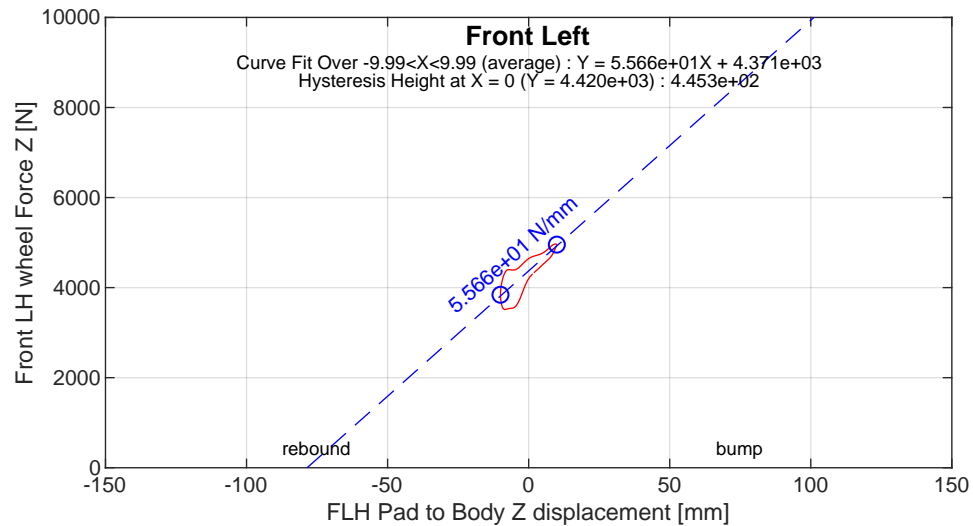
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce Audi Q5 Ride Rates

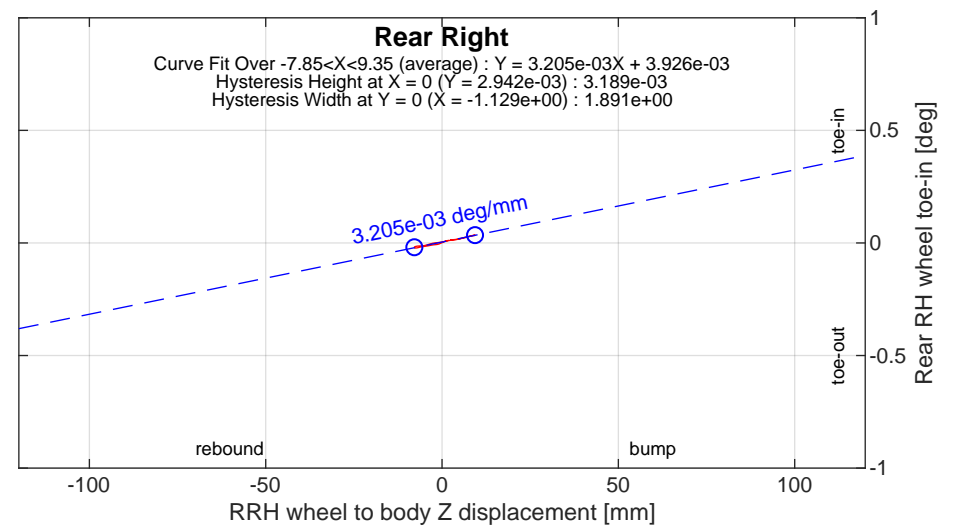
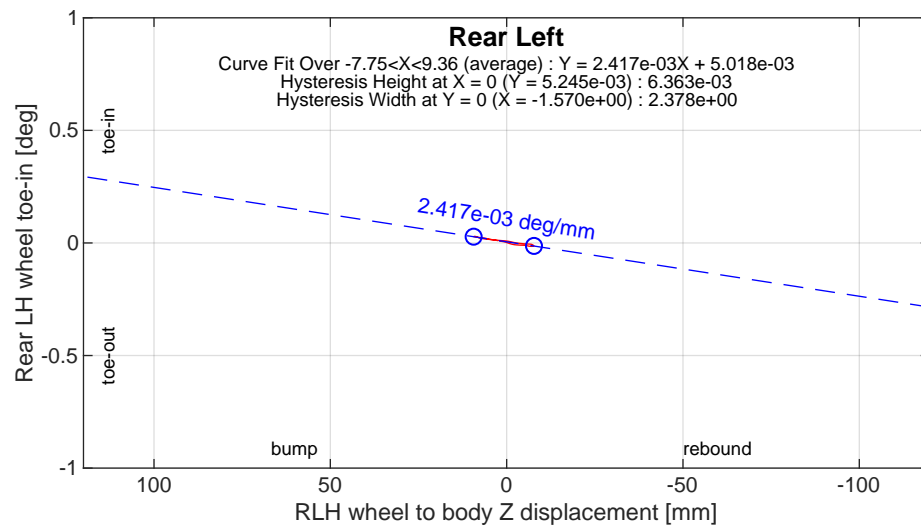
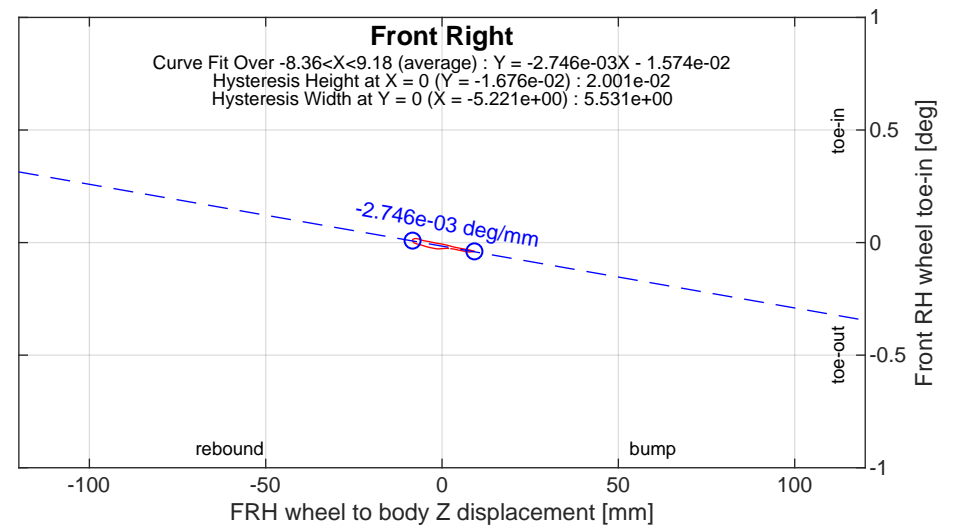
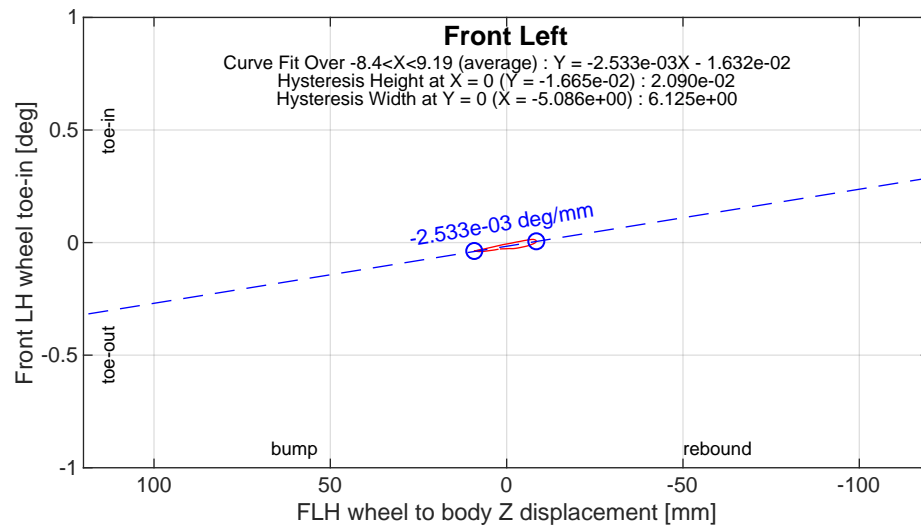
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (2Hz) : Test #3 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 2 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Bump Steer

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (2Hz) : Test #3 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 2 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

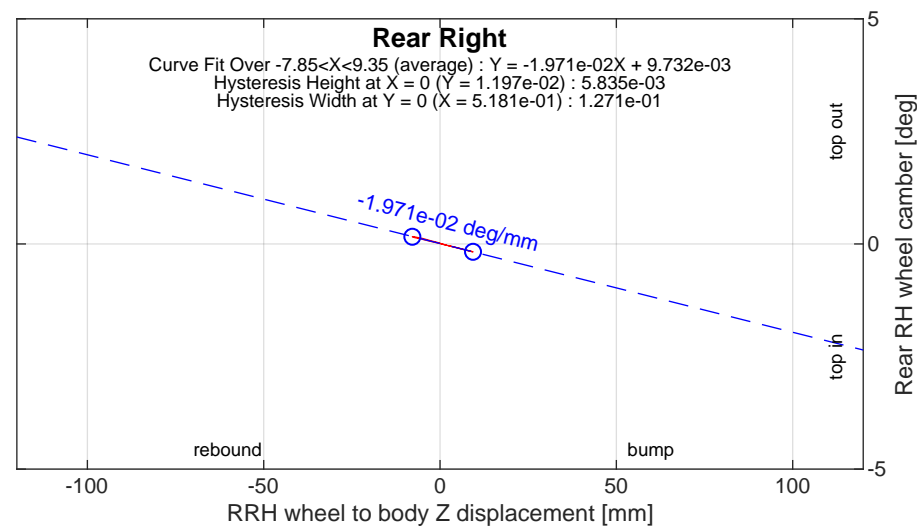
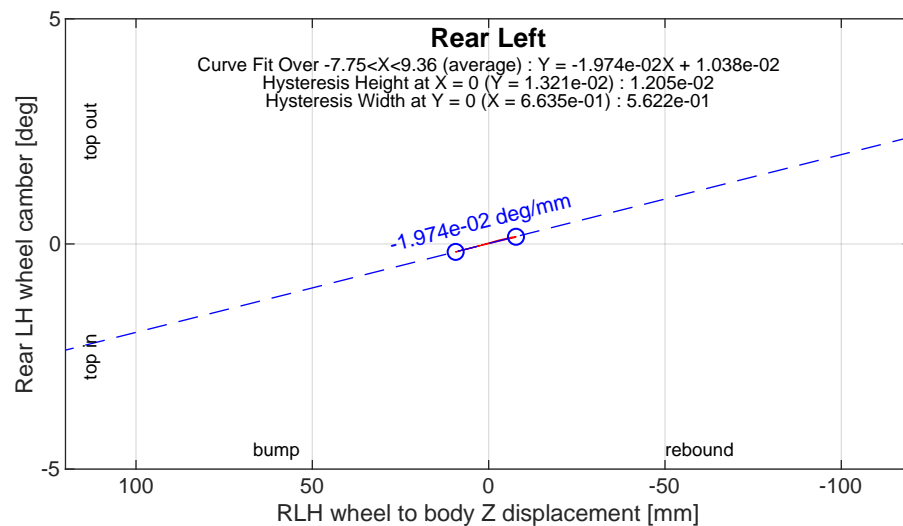
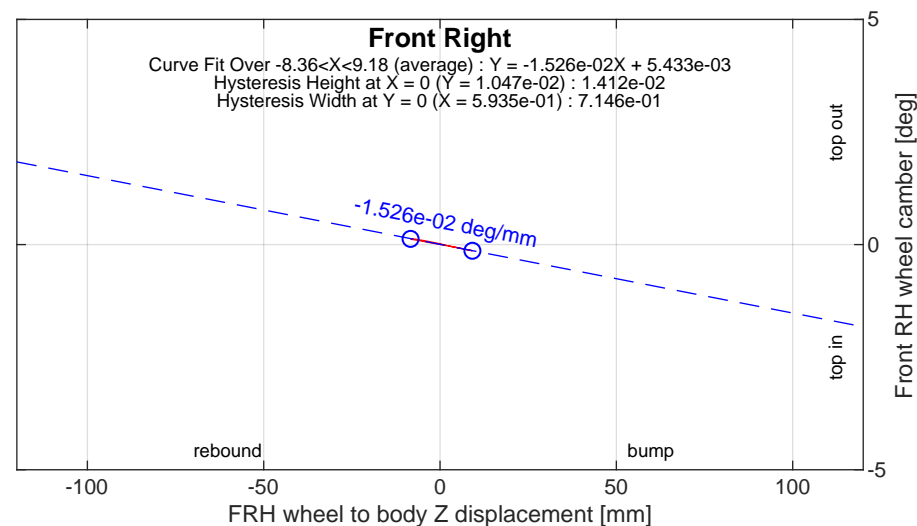
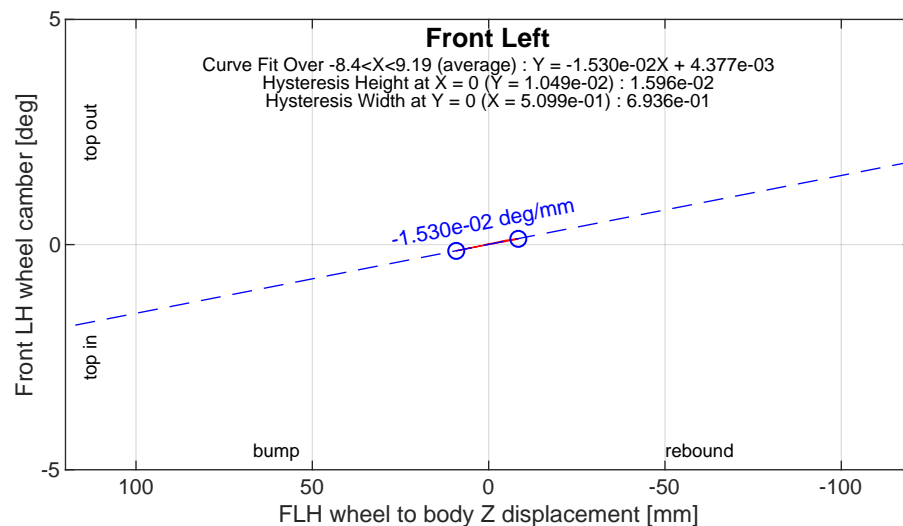
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Bump Camber

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (2Hz) : Test #3 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 2 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

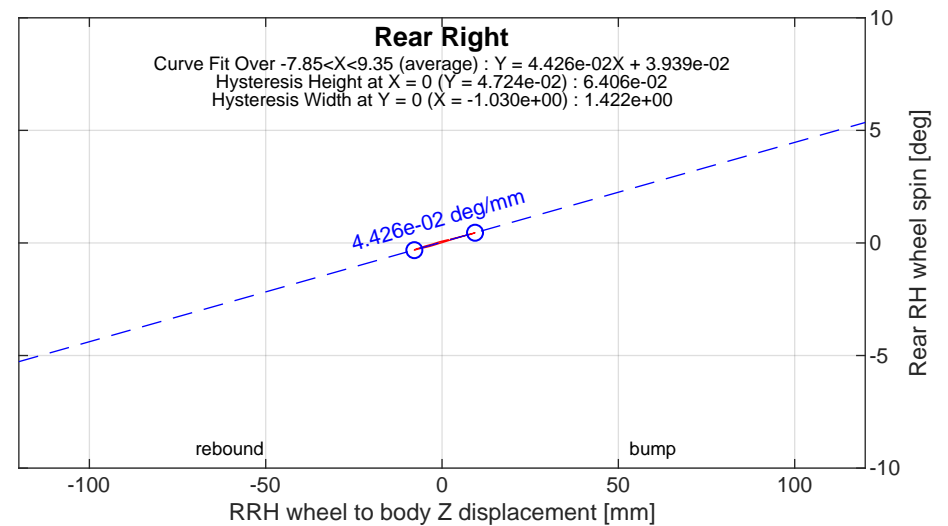
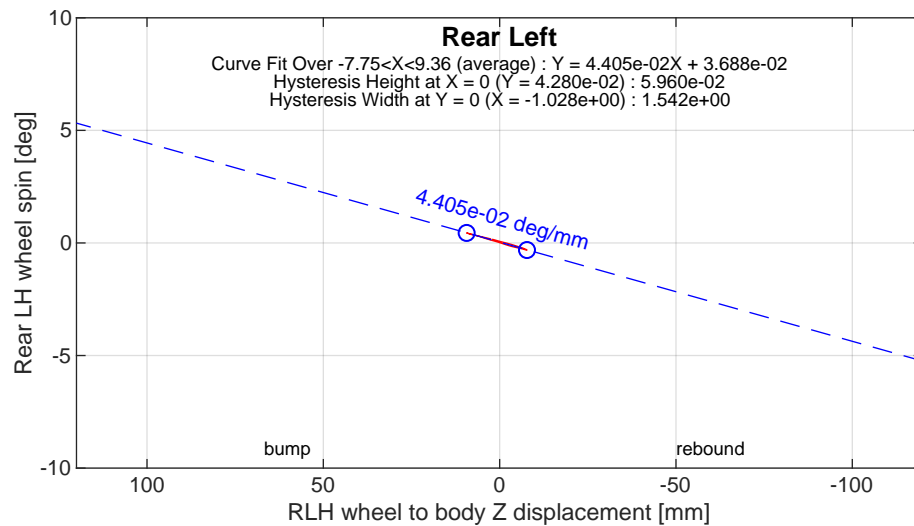
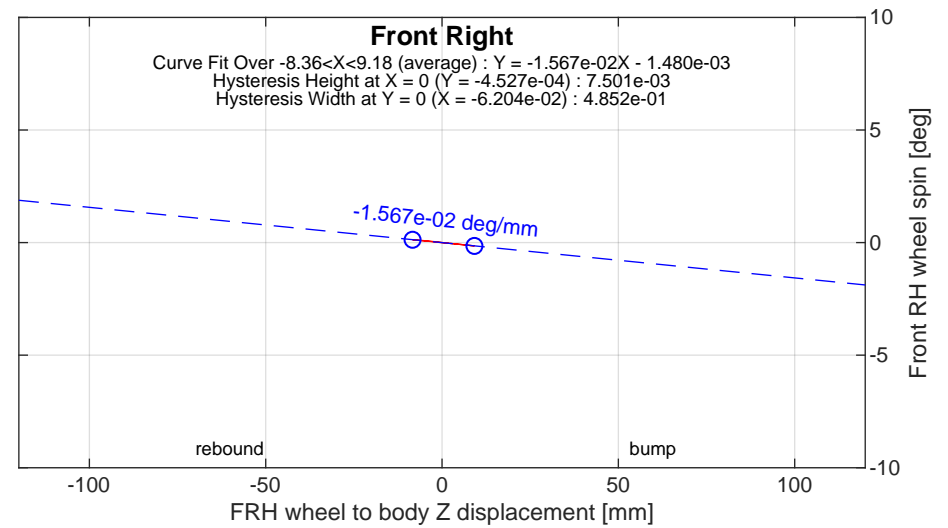
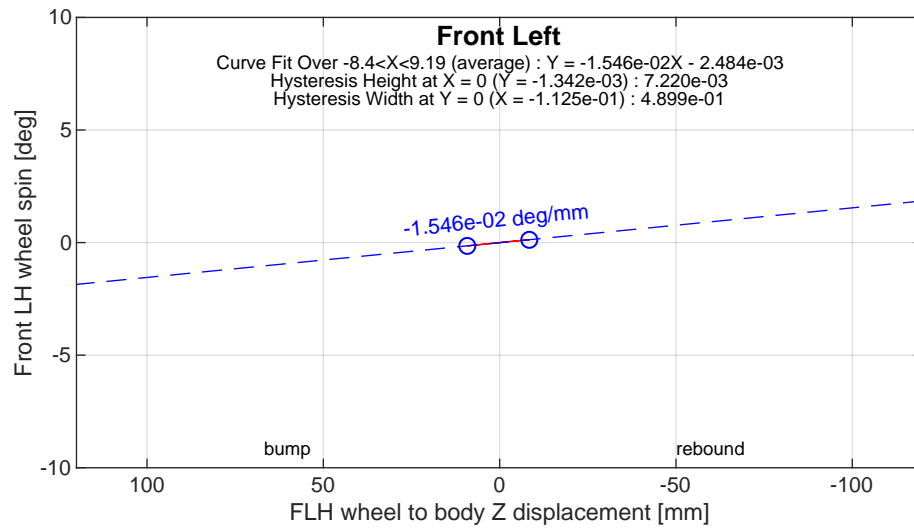
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Bump Spin

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (2Hz) : Test #3 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 2 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

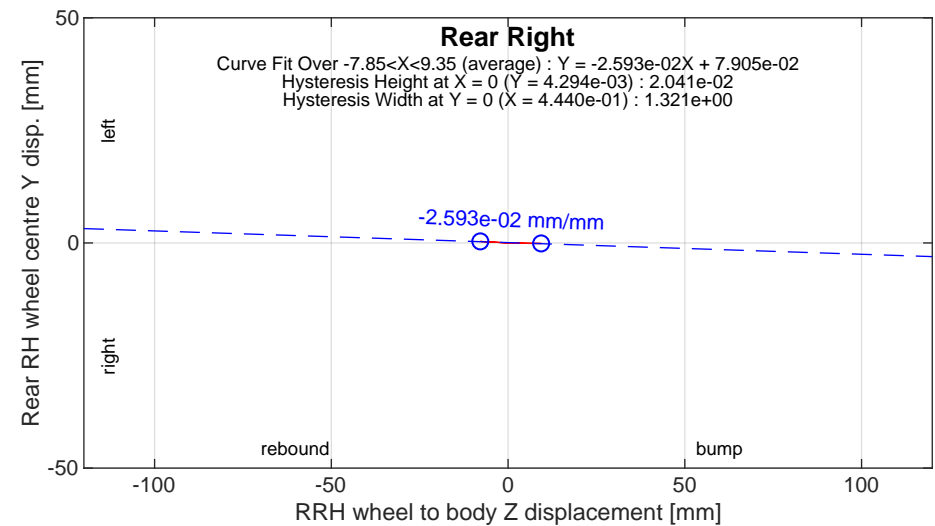
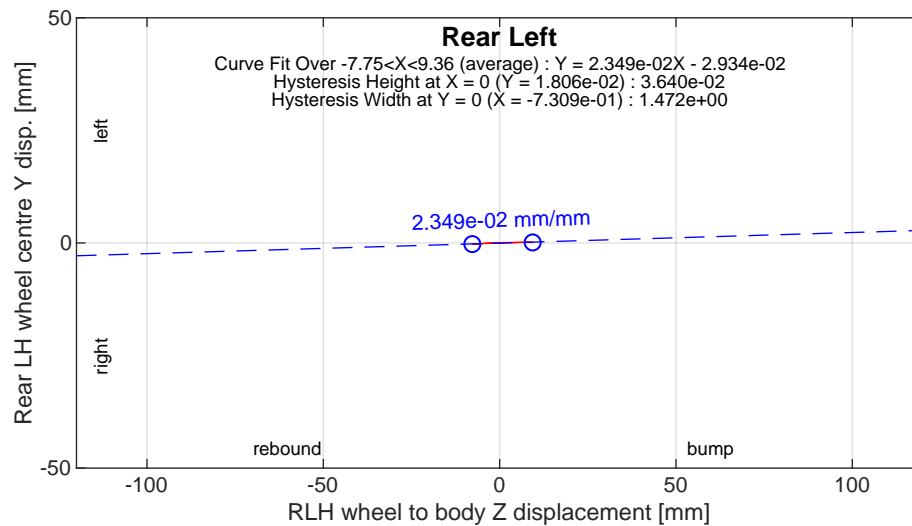
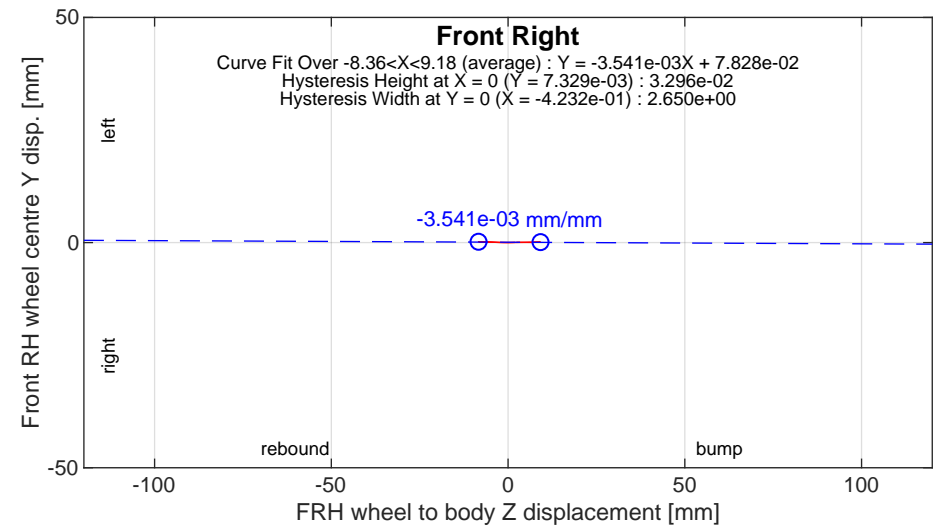
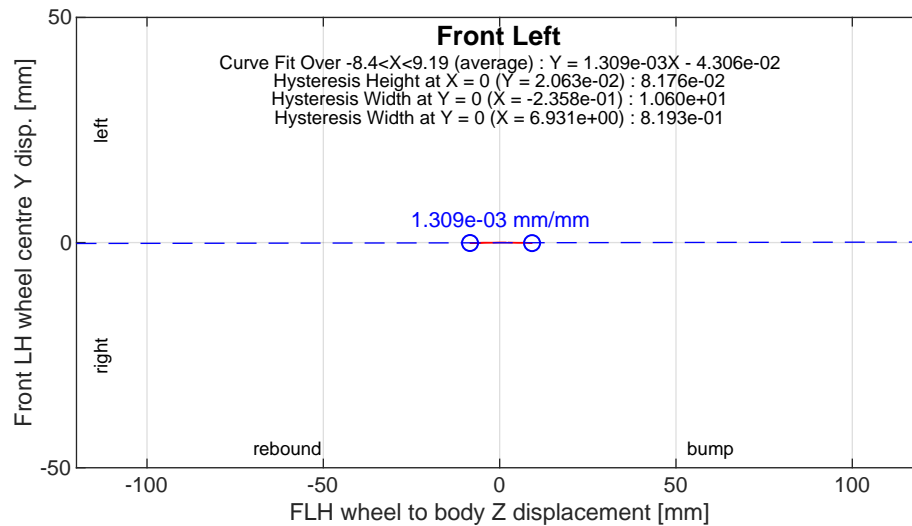
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



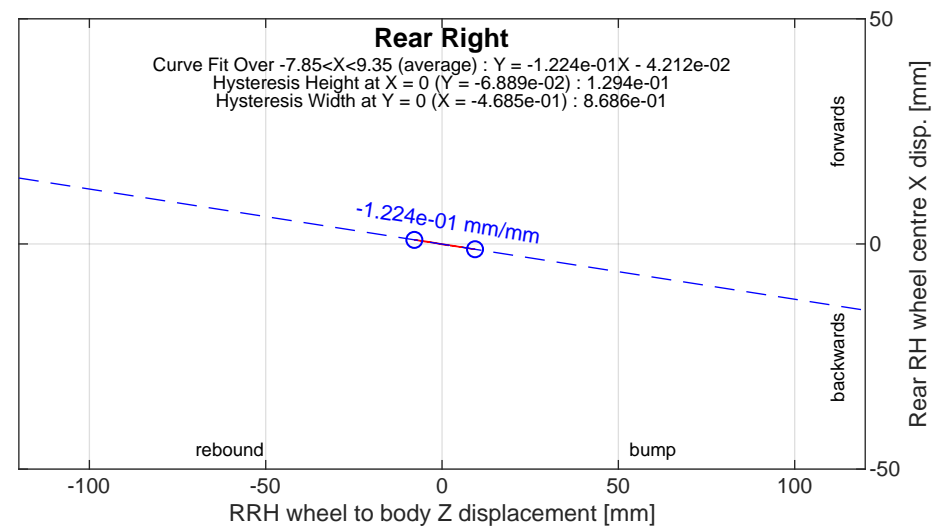
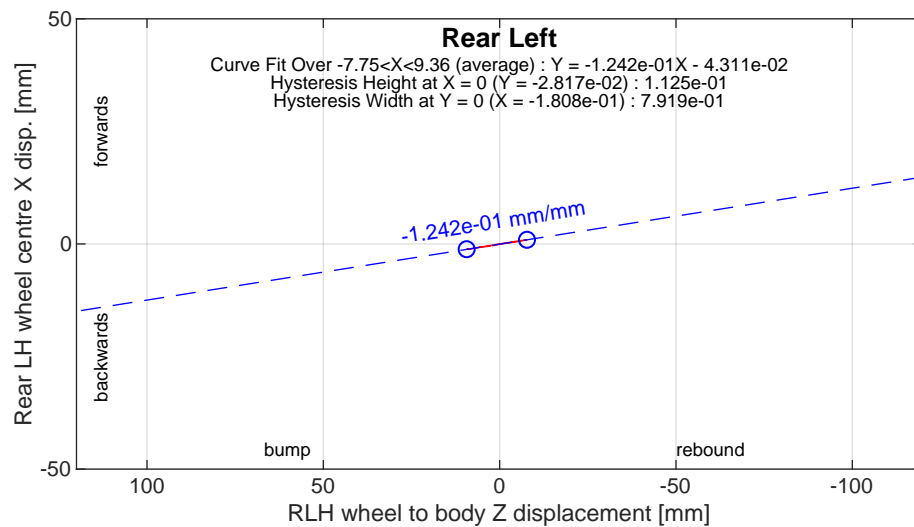
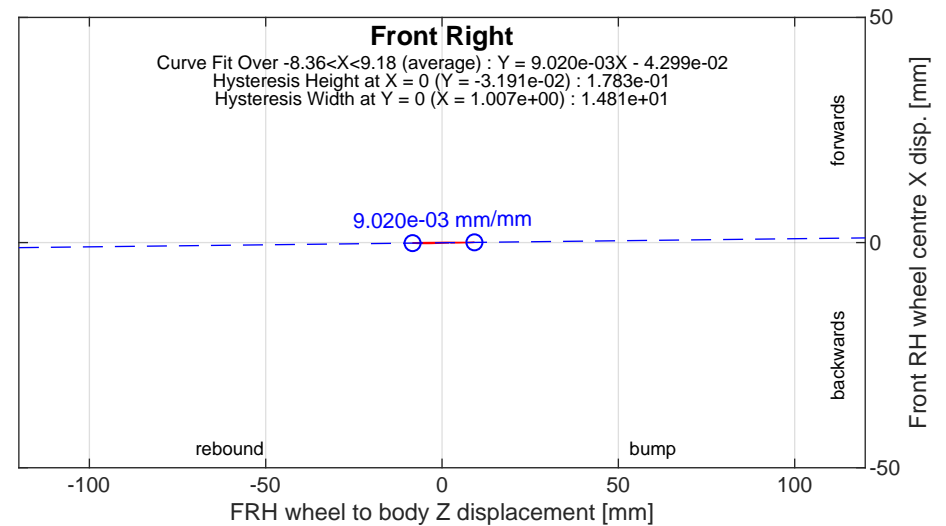
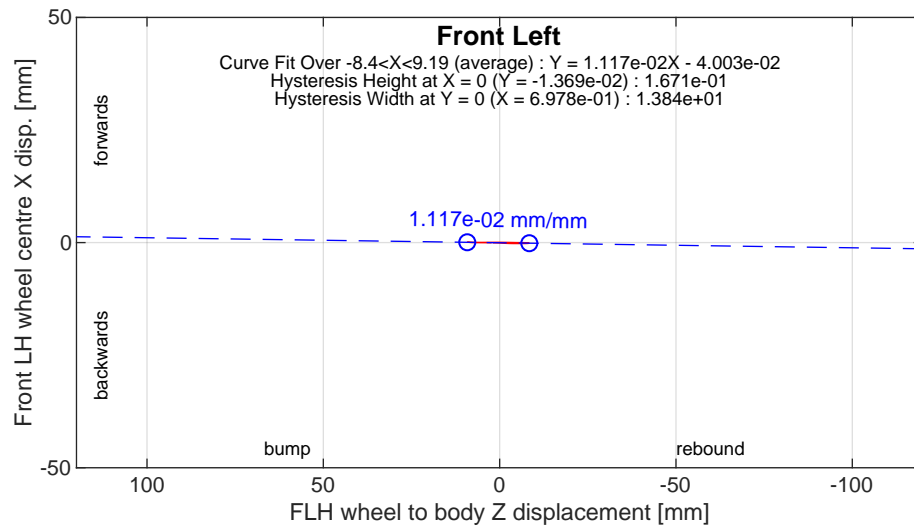
Bounce
Audi Q5
Lateral Wheel Centre Displacement
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (2Hz) : Test #3 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 2 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Wheel Recession

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (2Hz) : Test #3 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 2 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

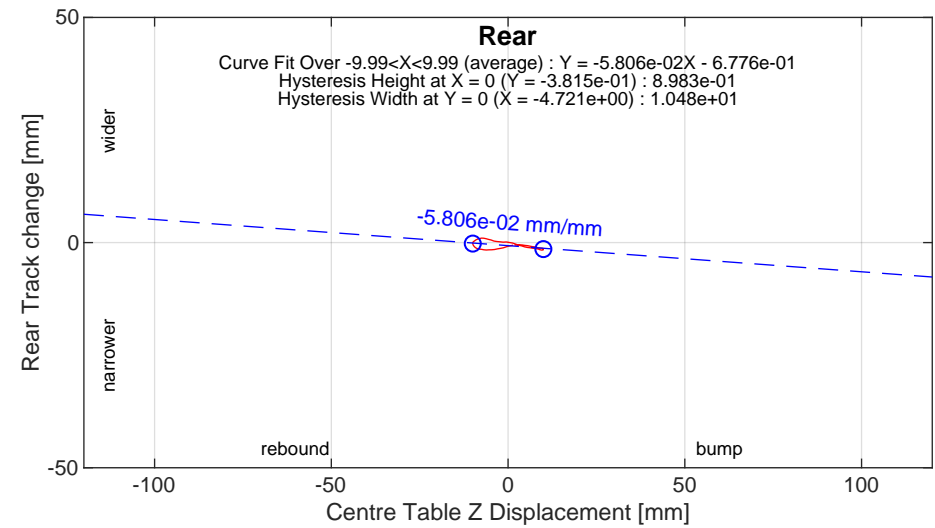
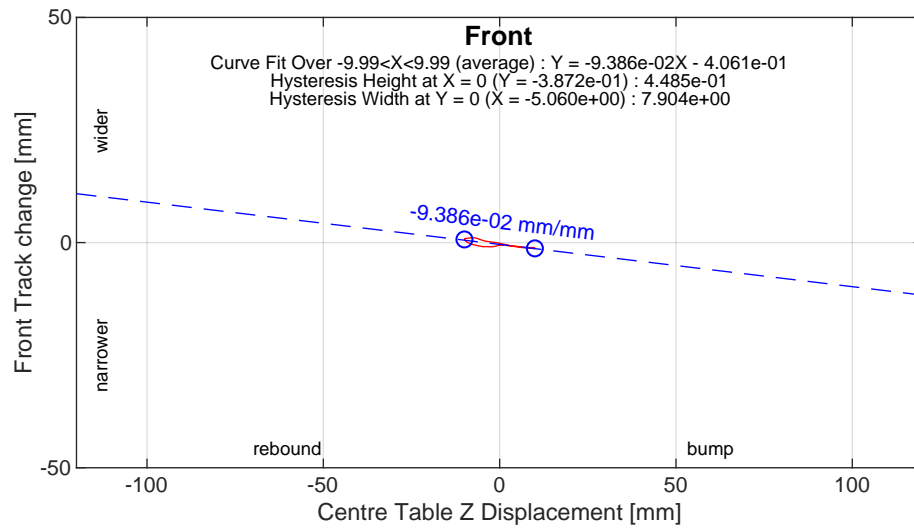
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Track Change

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (2Hz) : Test #3 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 2 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

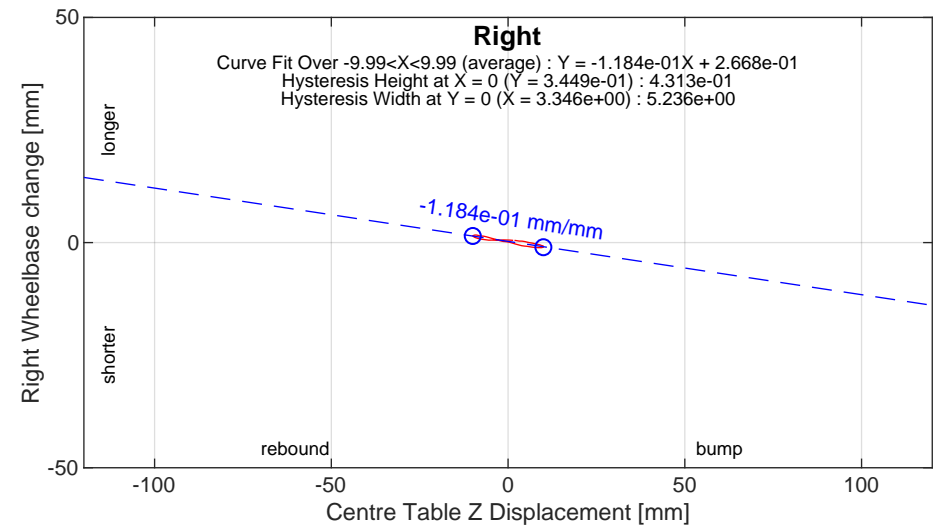
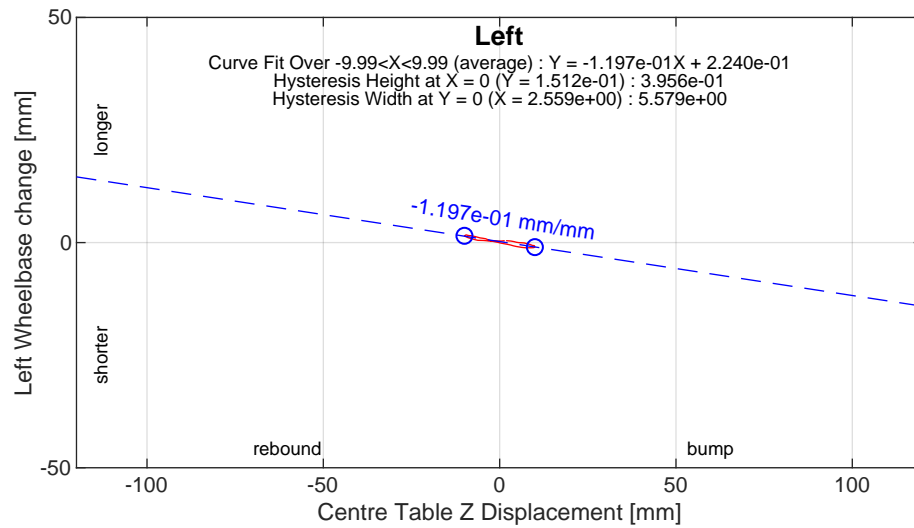
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



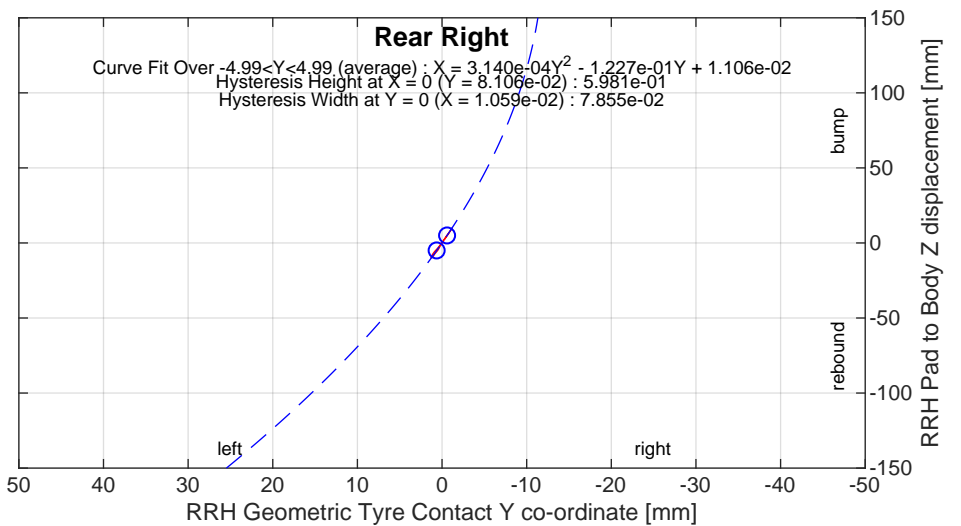
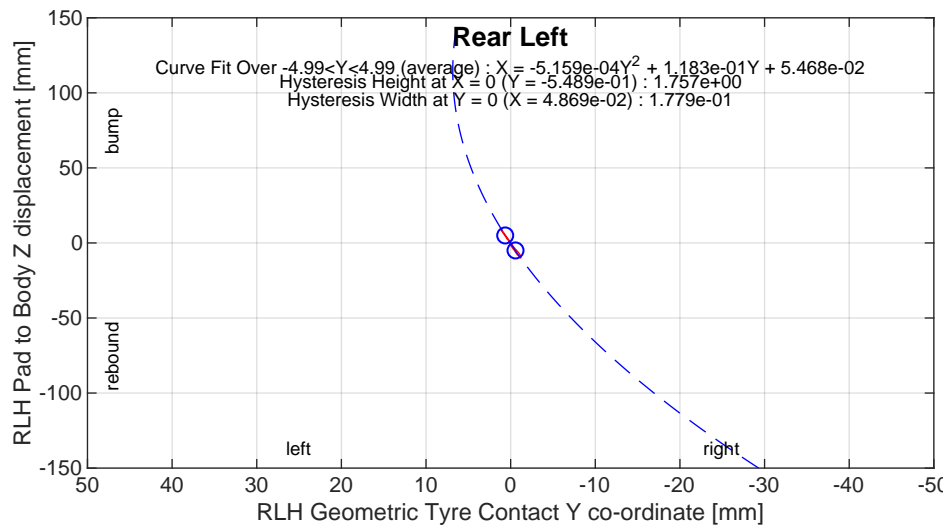
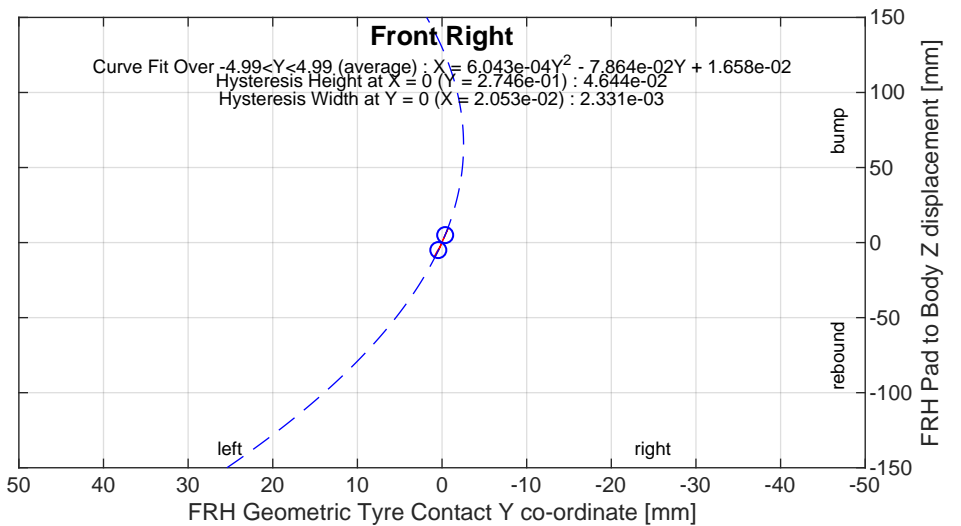
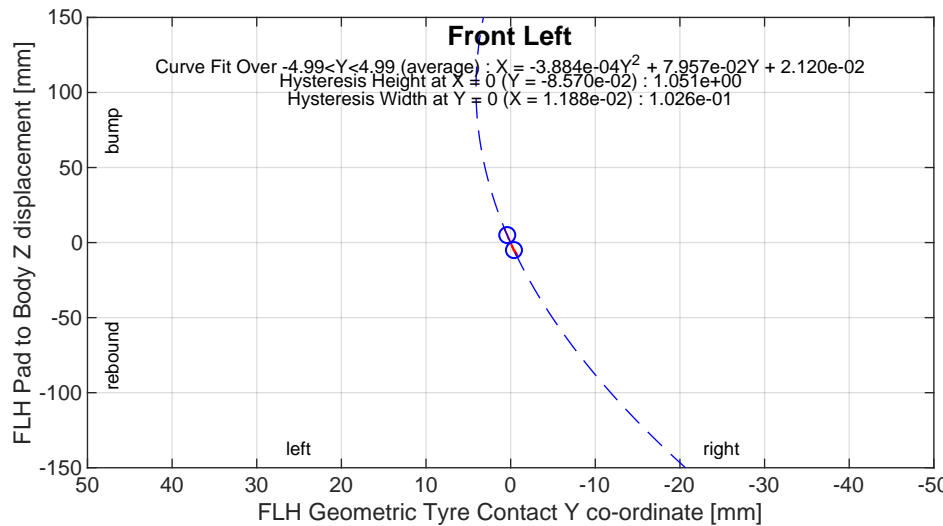
Bounce
Audi Q5
Wheelbase Change
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (2Hz) : Test #3 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 2 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Roll Centre Curve Fits

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (2Hz) : Test #3 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 2 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

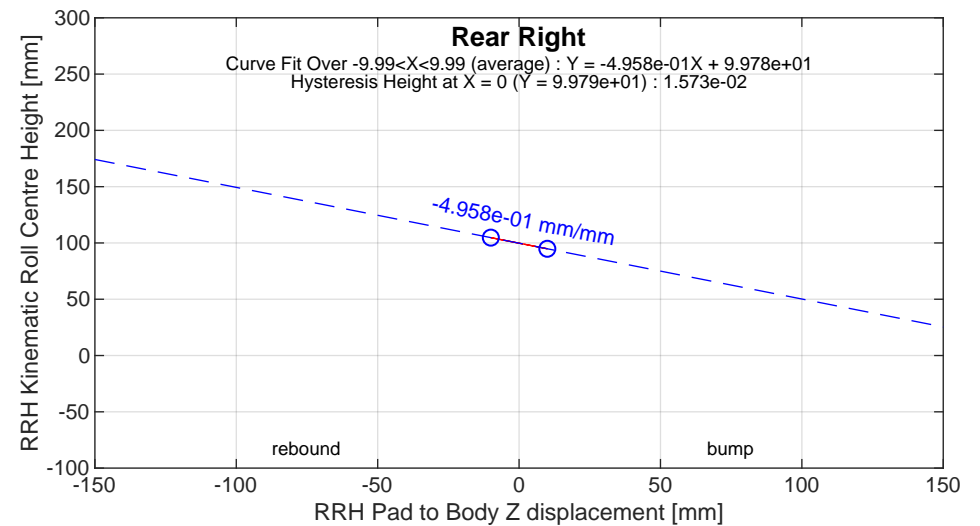
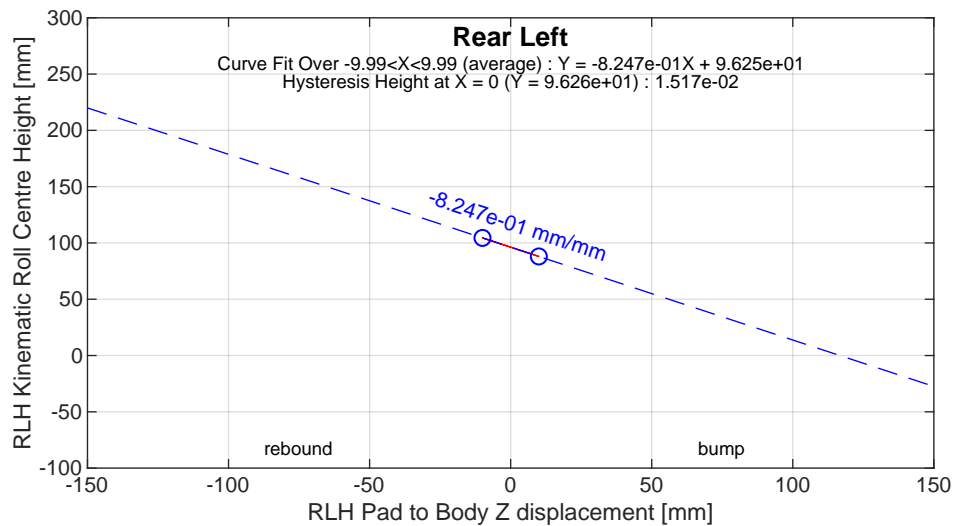
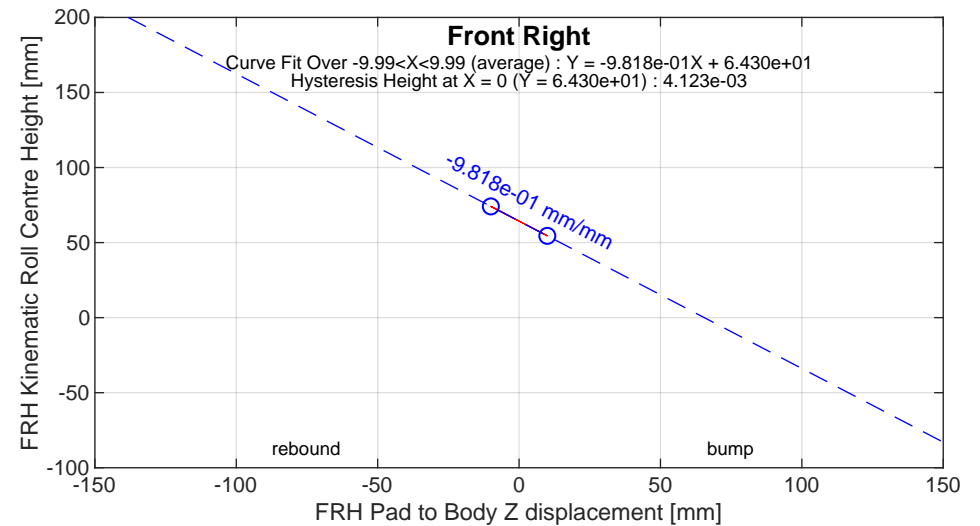
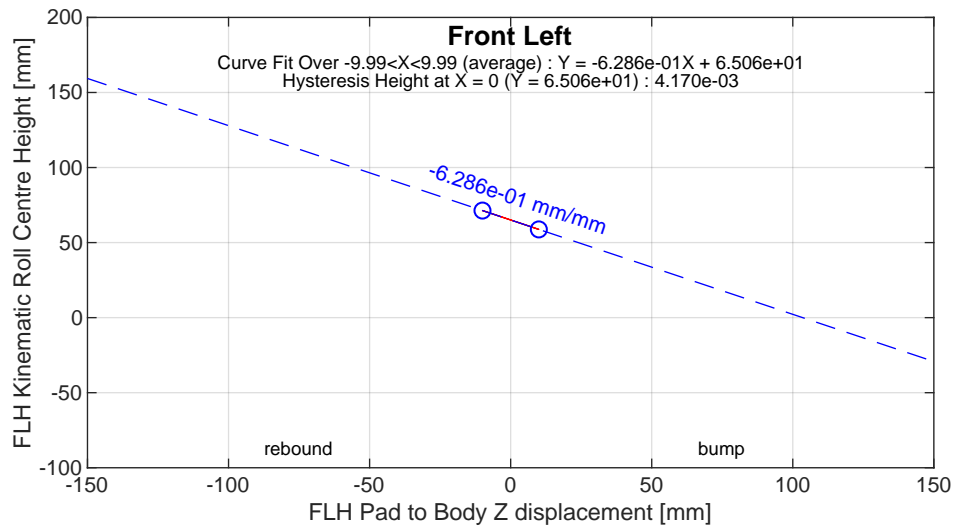
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



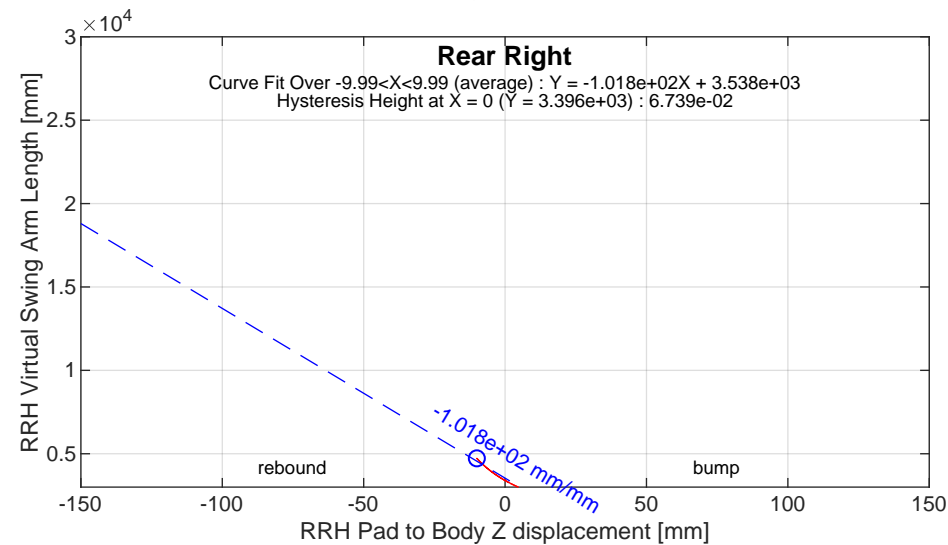
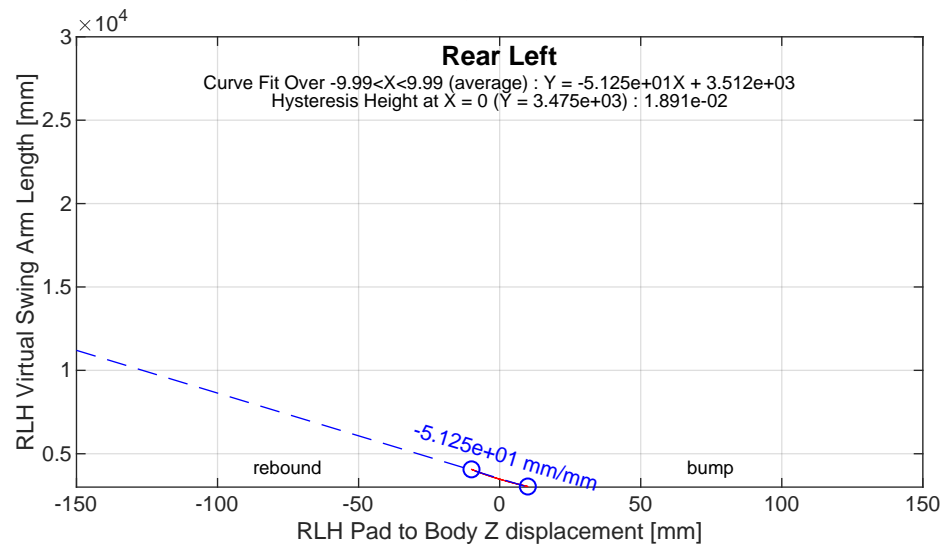
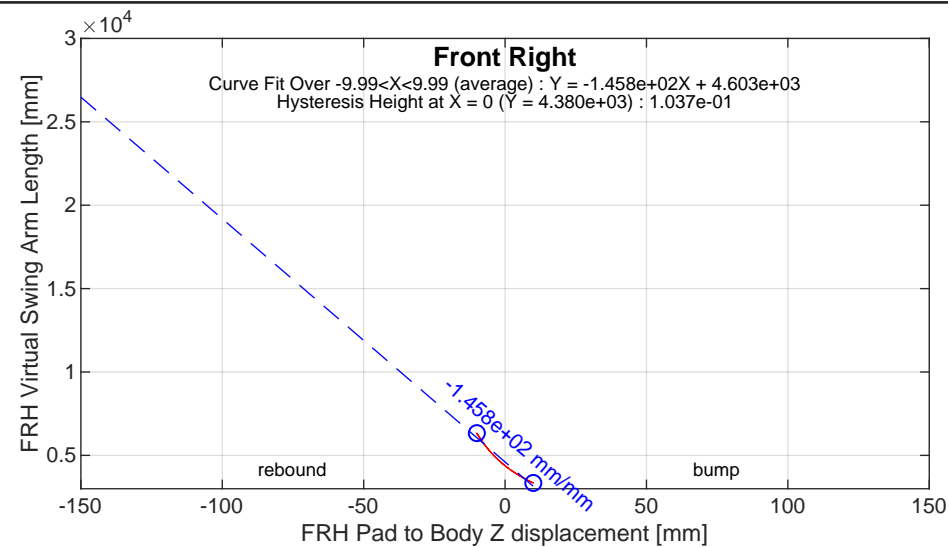
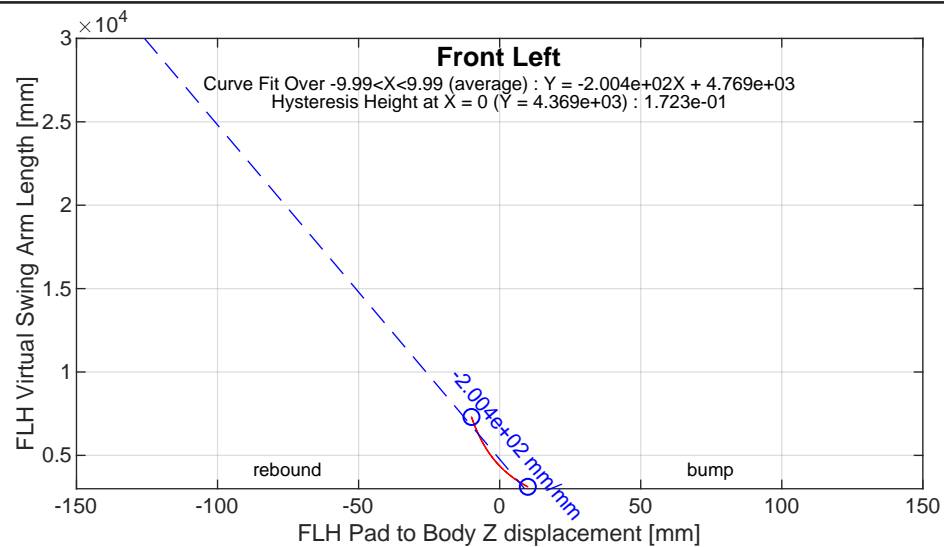
Bounce
Audi Q5
Kinematic Roll Centre Height
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (2Hz) : Test #3 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 2 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Virtual Swing Arm Length

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (2Hz) : Test #3 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 2 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

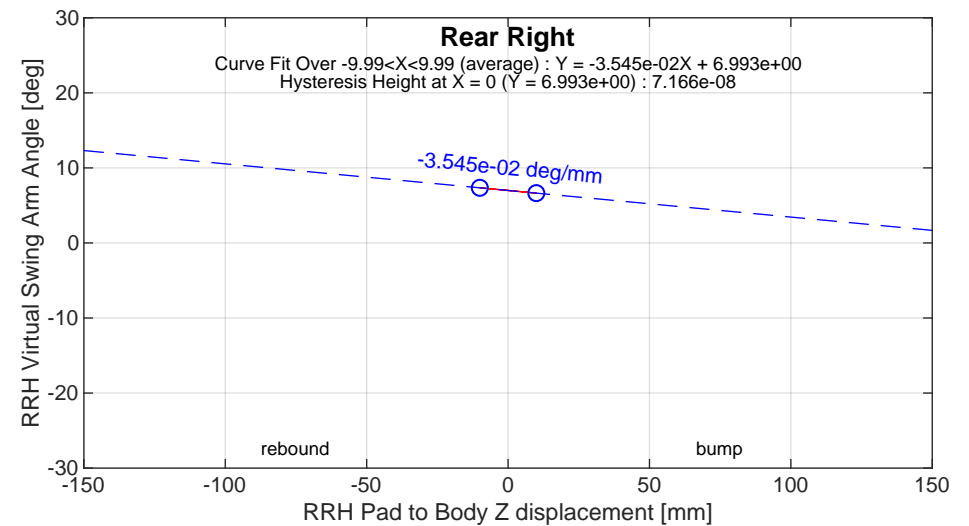
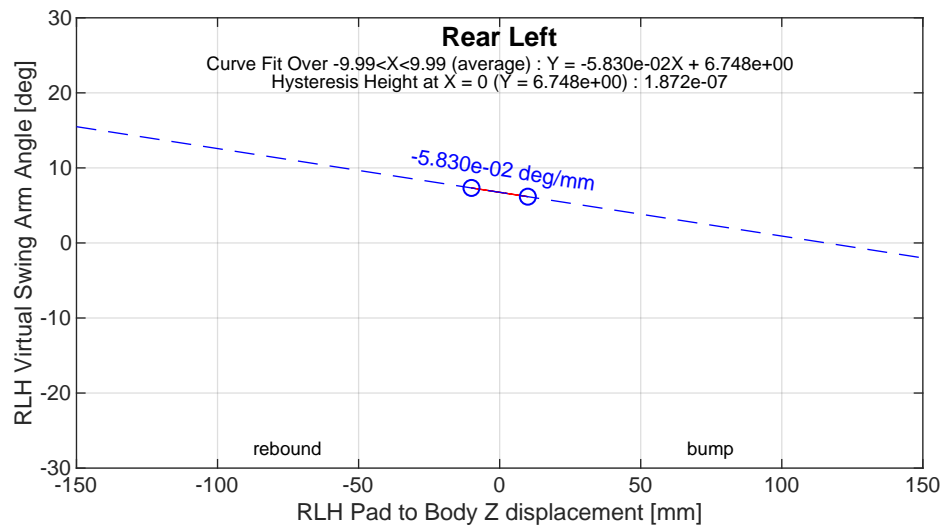
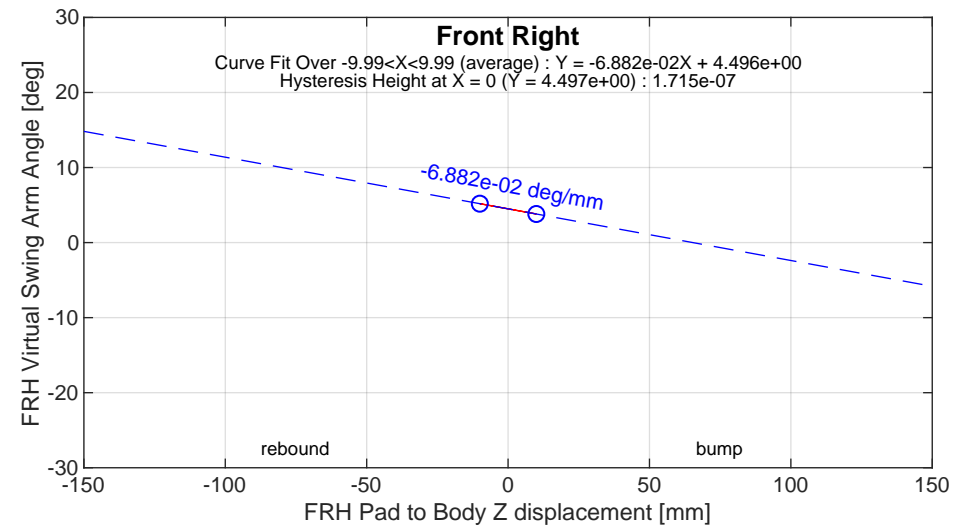
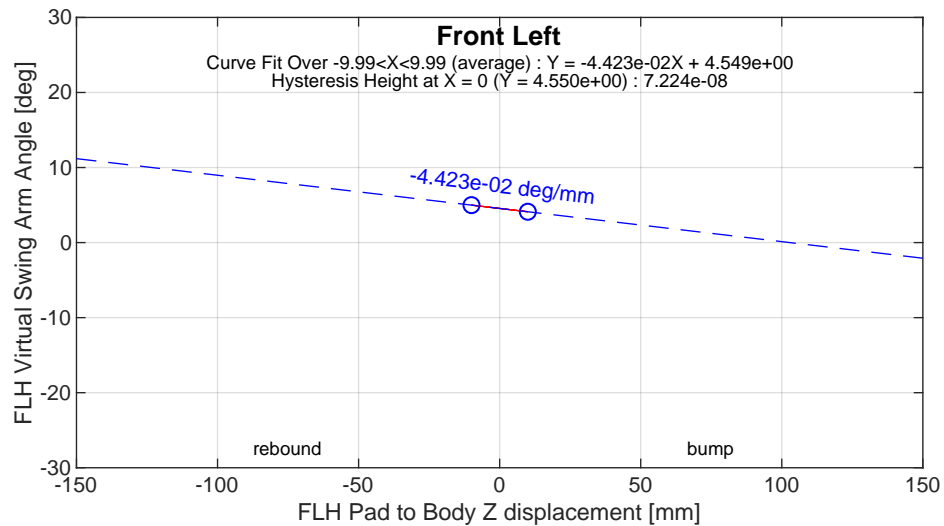
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



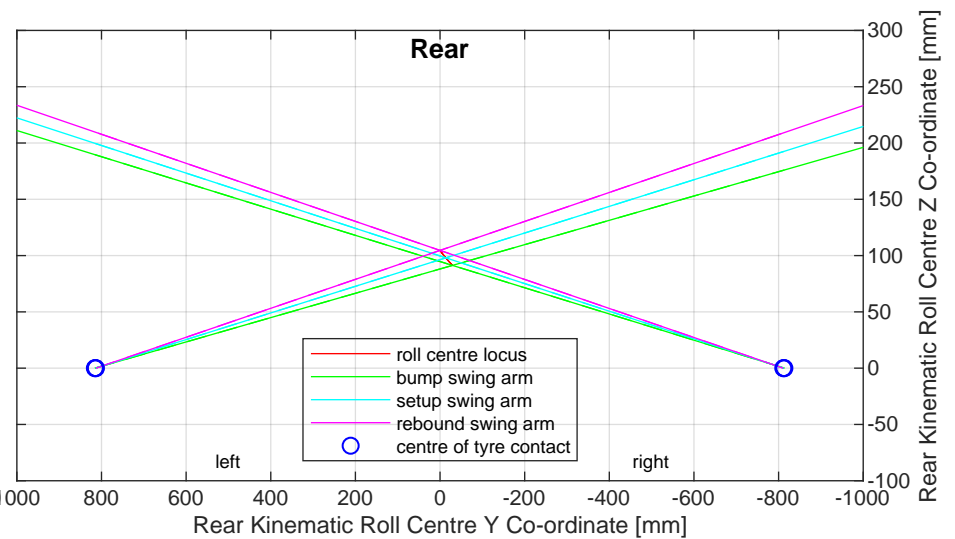
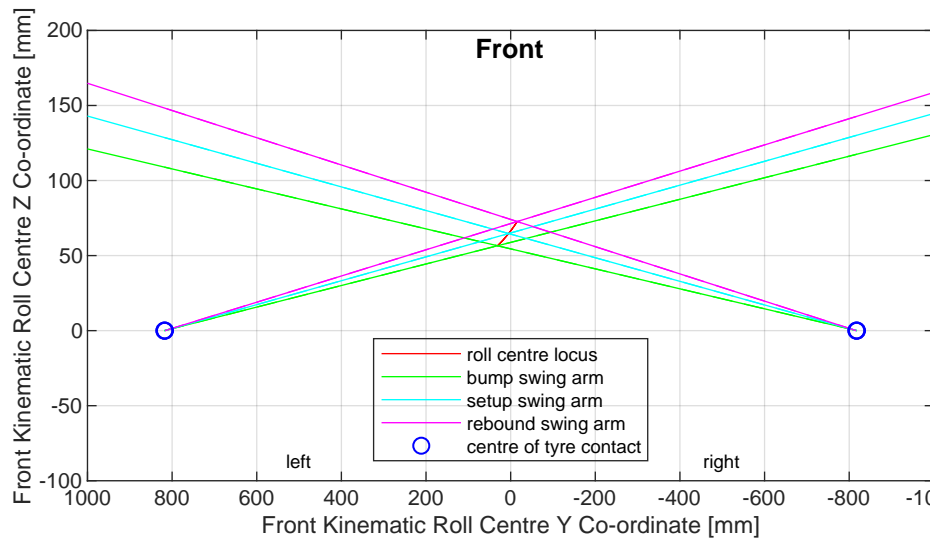
Bounce
Audi Q5
Virtual Swing Arm Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (2Hz) : Test #3 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 2 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



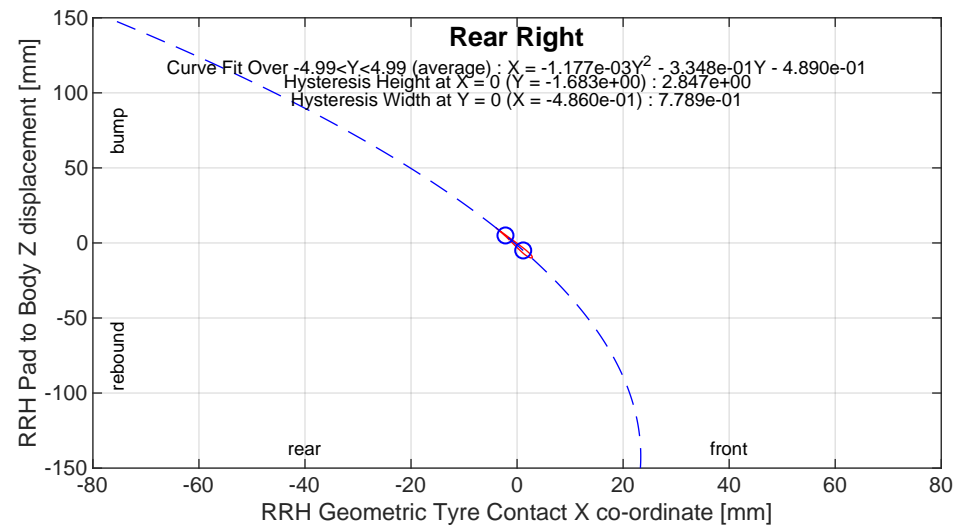
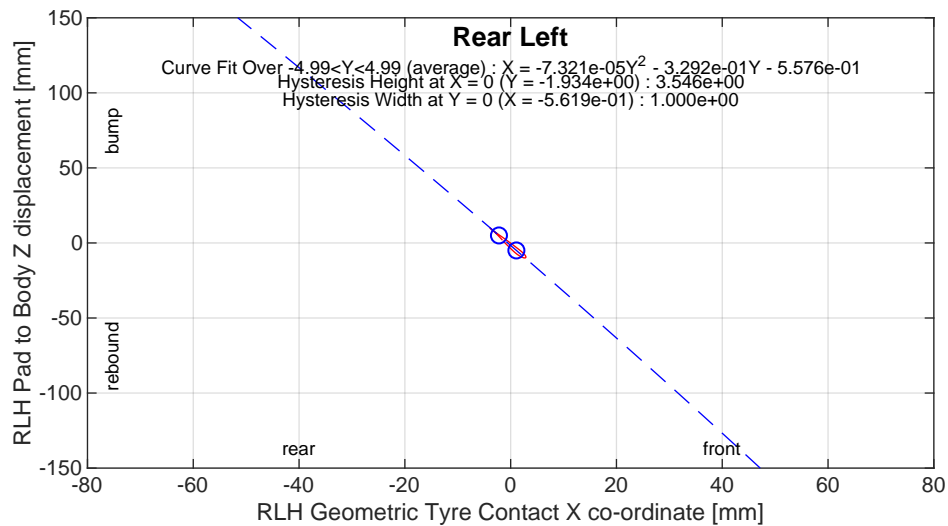
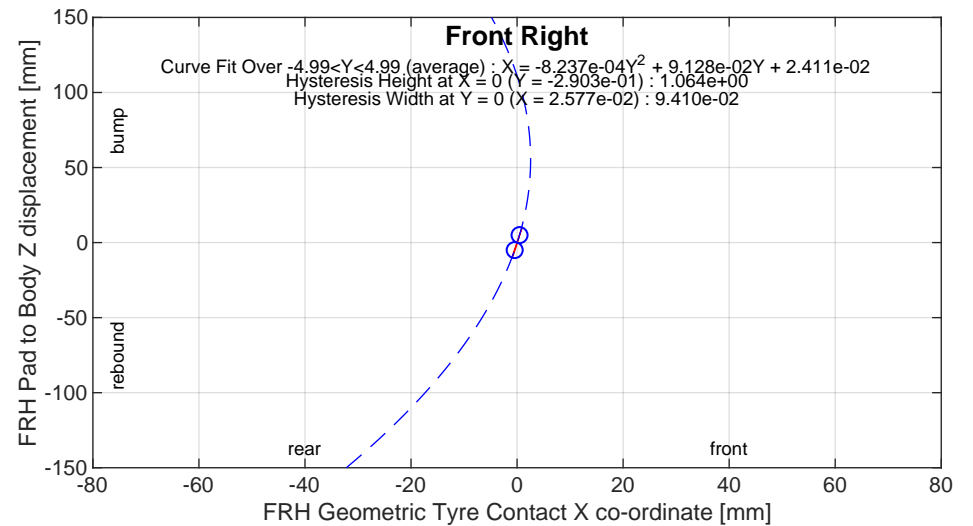
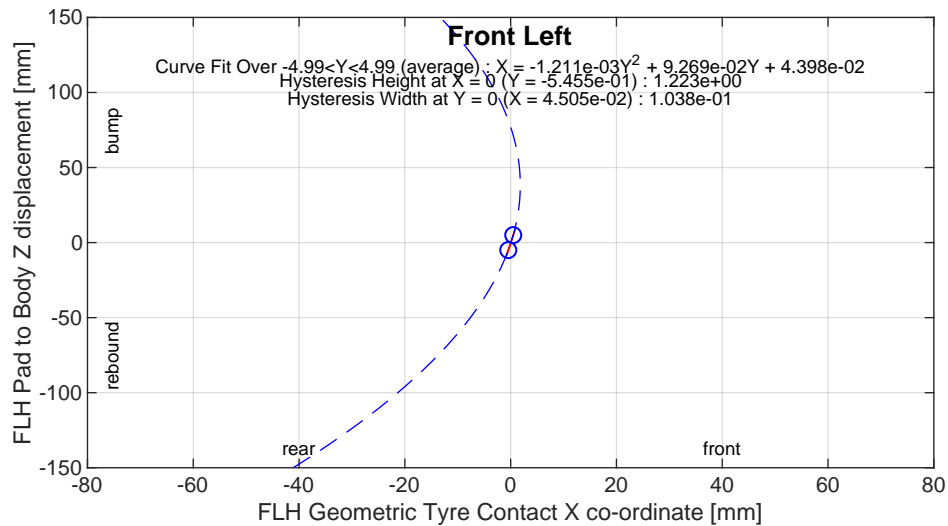
Bounce
Audi Q5
Kinematic Roll Centre Locus
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 6 : Dynamic Tests
 Dynamic Bounce (2Hz) : Test #3 of 6
 Test Run #1, Cycle #25
 Input : Sinusoidal, Cycle Frequency : 2 Hz
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : No
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



Bounce

Audi Q5

Anti-Dive Curve Fits

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (2Hz) : Test #3 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 2 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

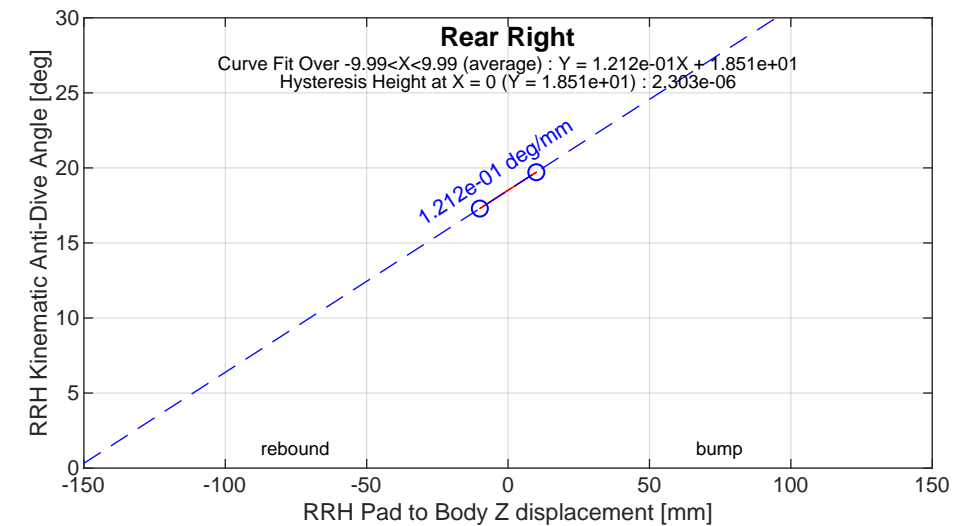
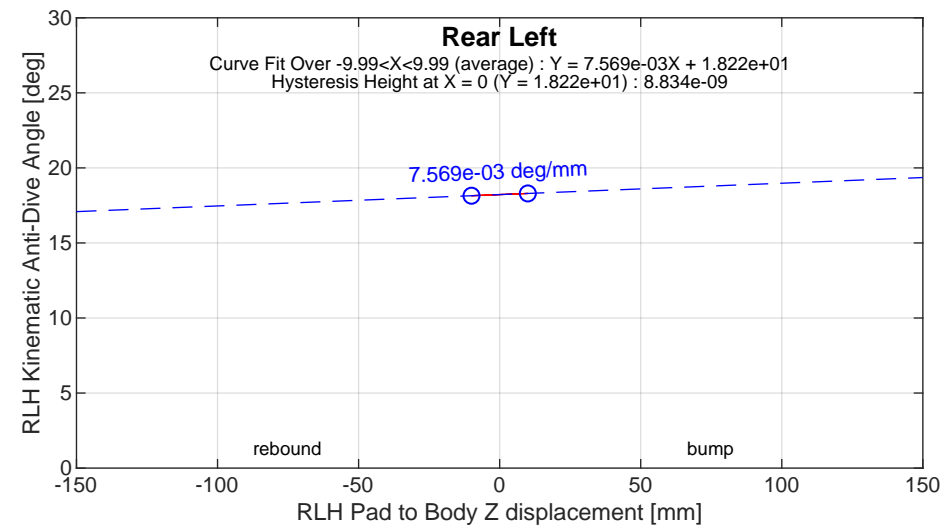
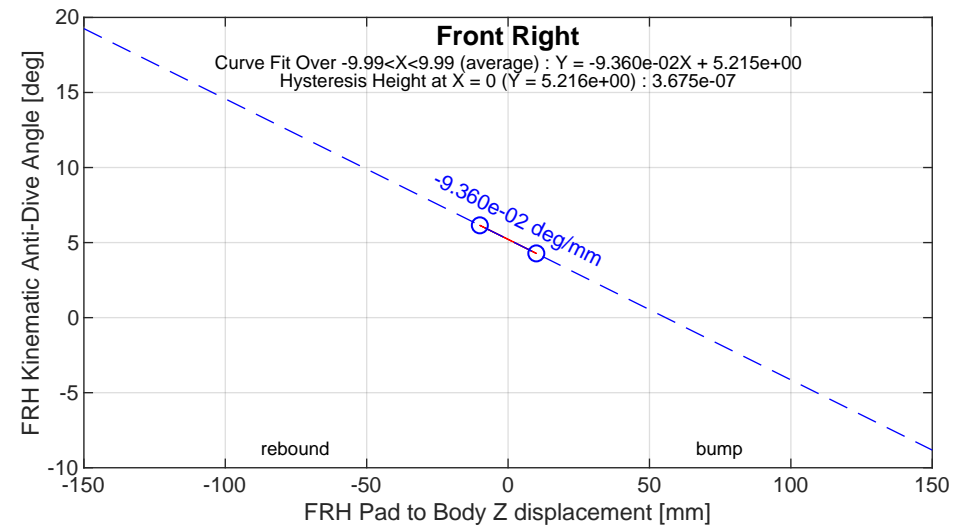
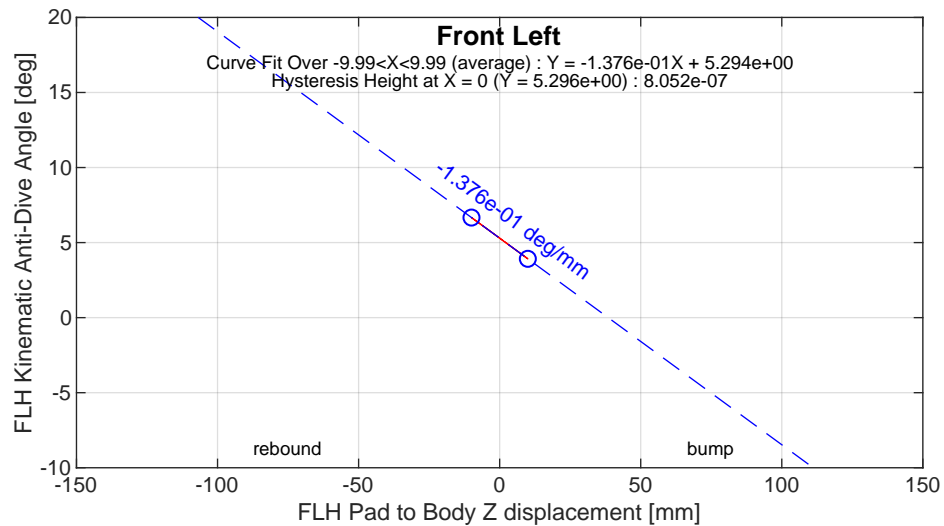
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Kinematic Anti-Dive Angle

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (2Hz) : Test #3 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 2 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

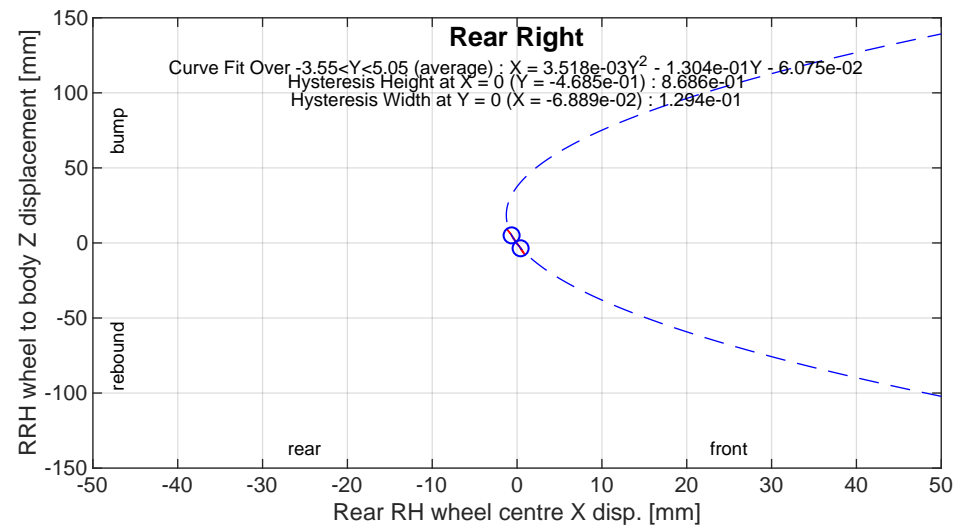
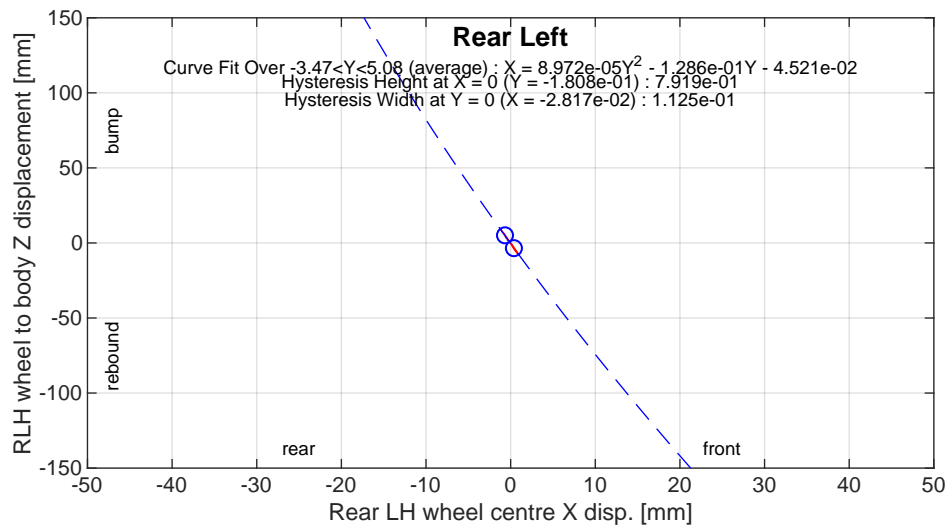
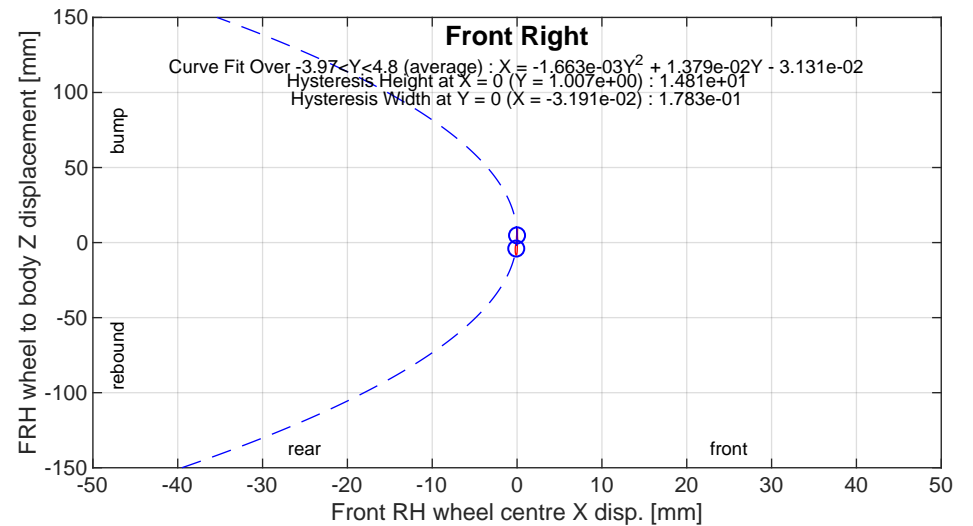
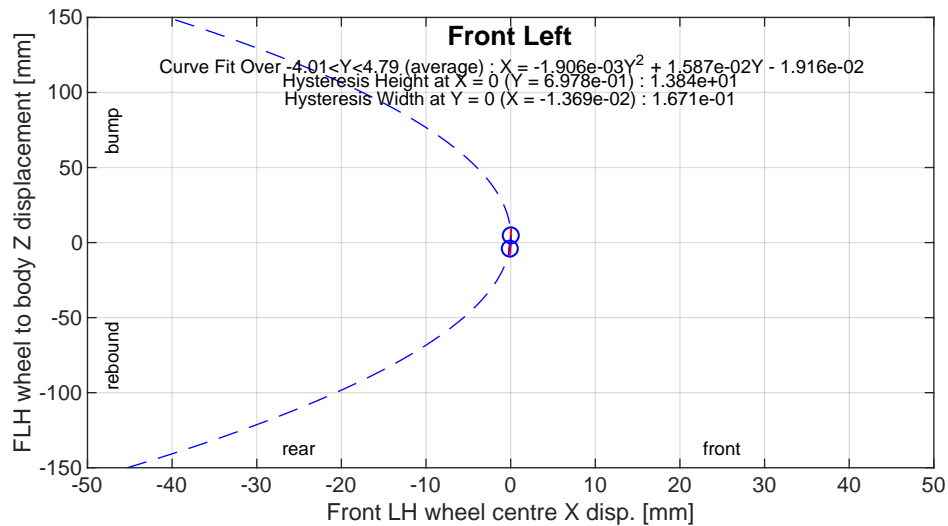
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce

Audi Q5

Anti-Squat Curve Fits

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

Dynamic Bounce (2Hz) : Test #3 of 6

Test Run #1, Cycle #25

Input : Sinusoidal, Cycle Frequency : 2 Hz

Setup 3

Transmission Lock : None

Brakes On : Yes

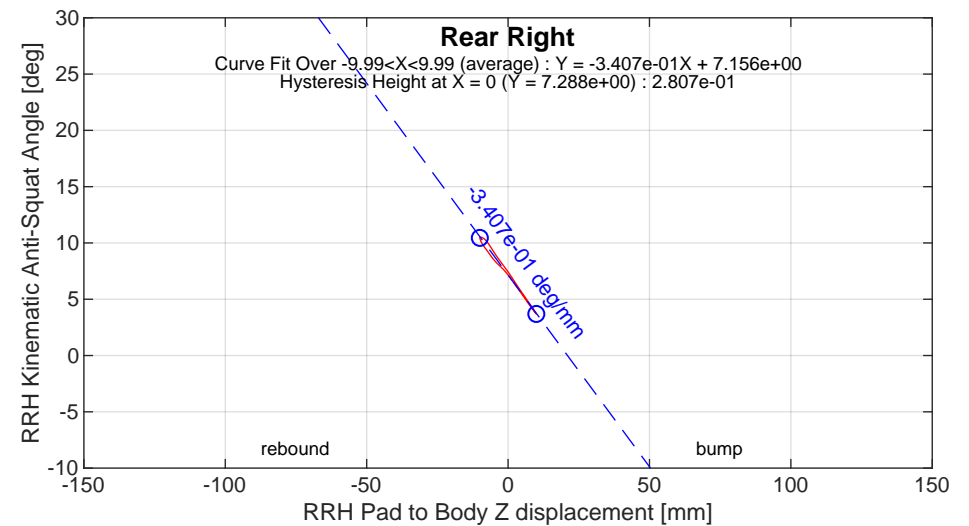
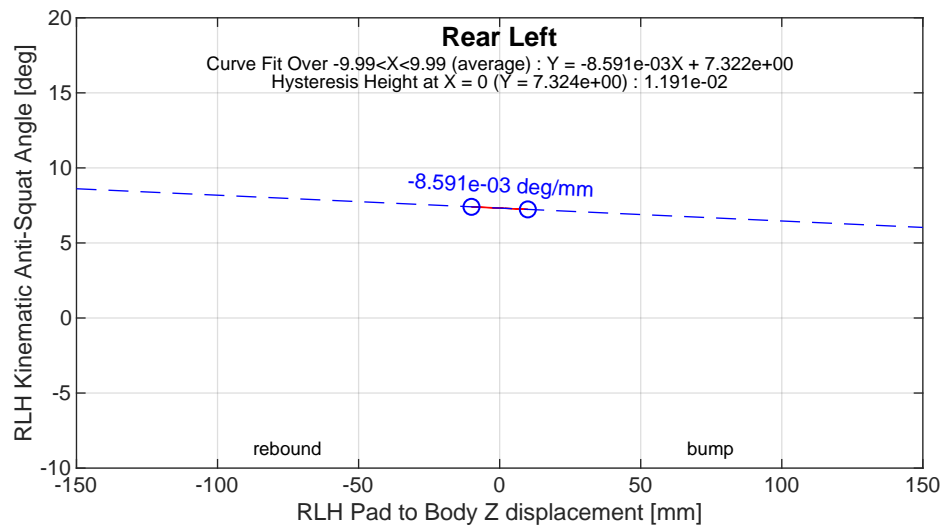
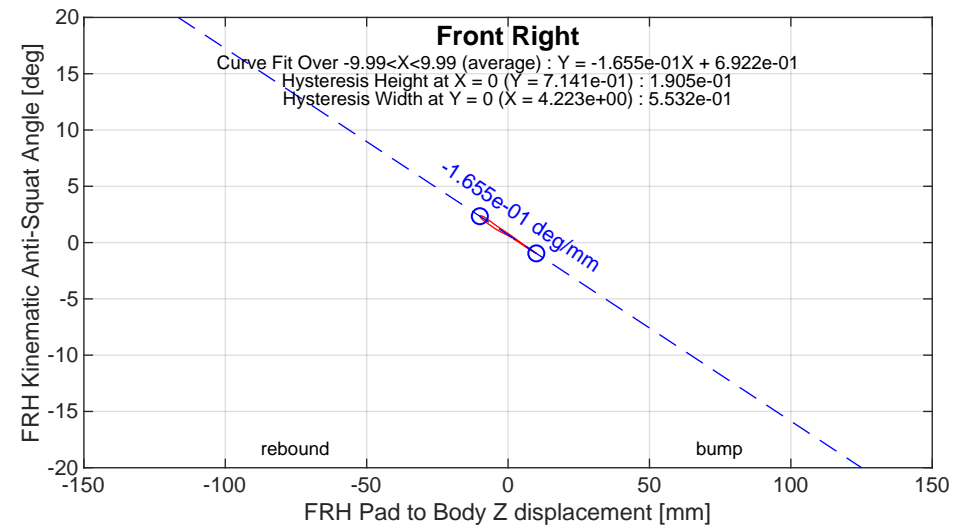
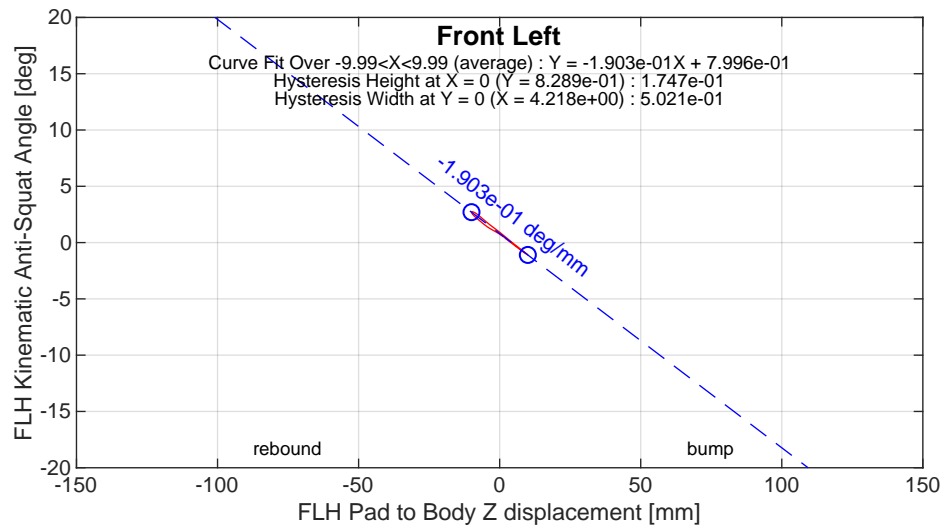
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Bounce
Audi Q5
Kinematic Anti-Squat Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
Dynamic Bounce (2Hz) : Test #3 of 6
Test Run #1, Cycle #25
Input : Sinusoidal, Cycle Frequency : 2 Hz
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31

Plotted Curve Fit Coefficients

Wheel Rates (FL/FR/RL/RR) [N/mm]:

5.853e+01	4.356e+03
5.892e+01	4.380e+03
6.724e+01	4.545e+03
6.344e+01	4.608e+03

Tyre Radial Rates (FL/FR/RL/RR) [N/mm]:

4.455e+02	4.591e+03
4.412e+02	4.620e+03
4.500e+02	4.902e+03
4.489e+02	4.908e+03

Ride Rates (FL/FR/RL/RR) [N/mm]:

5.566e+01	4.371e+03
5.614e+01	4.395e+03
6.570e+01	4.566e+03
6.187e+01	4.621e+03

Bump Steer (FL/FR/RL/RR) [deg/mm]:

-2.533e-03	-1.632e-02
-2.746e-03	-1.574e-02
2.417e-03	5.018e-03
3.205e-03	3.926e-03

Bump Camber (FL/FR/RL/RR) [deg/mm]:

-1.530e-02	4.377e-03
-1.526e-02	5.433e-03
-1.974e-02	1.038e-02
-1.971e-02	9.732e-03

Bump Spin (FL/FR/RL/RR) [deg/mm]:

-1.546e-02	-2.484e-03
-1.567e-02	-1.480e-03
4.405e-02	3.688e-02
4.426e-02	3.939e-02

Lateral Wheel Centre Displacement (FL/FR/RL/RR) [mm/mm]:

1.309e-03	-4.306e-02
-3.541e-03	7.828e-02
2.349e-02	-2.934e-02
-2.593e-02	7.905e-02

Wheel Recession (FL/FR/RL/RR) [mm/mm]:

1.117e-02	-4.003e-02
9.020e-03	-4.299e-02
-1.242e-01	-4.311e-02
-1.224e-01	-4.212e-02

Track Change (F/R) [mm/mm]:

-9.386e-02	-4.061e-01
-5.806e-02	-6.776e-01

Wheelbase Change (L/R) [mm/mm]:

-1.197e-01	2.240e-01
-1.184e-01	2.668e-01

Roll Centre Curve Fits (FL/FR/RL/RR) [mm/mm]:

-3.884e-04	7.957e-02	2.120e-02
6.043e-04	-7.864e-02	1.658e-02
-5.159e-04	1.183e-01	5.468e-02
3.140e-04	-1.227e-01	1.106e-02

Kinematic Roll Centre Height (FL/FR/RL/RR) [mm/mm]:

-6.286e-01	6.506e+01
-9.818e-01	6.430e+01
-8.247e-01	9.625e+01
-4.958e-01	9.978e+01

Virtual Swing Arm Length (FL/FR/RL/RR) [mm/mm]:

-2.004e+02	4.769e+03
-1.458e+02	4.603e+03
-5.125e+01	3.512e+03
-1.018e+02	3.538e+03

Virtual Swing Arm Angle (FL/FR/RL/RR) [deg/mm]:

-4.423e-02	4.549e+00
------------	-----------

-6.882e-02	4.496e+00
-5.830e-02	6.748e+00
-3.545e-02	6.993e+00

Anti-Dive Curve Fits (FL/FR/RL/RR) [mm/mm]:

-1.211e-03	9.269e-02	4.398e-02
-8.237e-04	9.128e-02	2.411e-02
-7.321e-05	-3.292e-01	-5.576e-01
-1.177e-03	-3.348e-01	-4.890e-01

Kinematic Anti-Dive Angle (FL/FR/RL/RR) [deg/mm]:

-1.376e-01	5.294e+00
-9.360e-02	5.215e+00
7.569e-03	1.822e+01
1.212e-01	1.851e+01

Anti-Squat Curve Fits (FL/FR/RL/RR) [mm/mm]:

-1.906e-03	1.587e-02	-1.916e-02
-1.663e-03	1.379e-02	-3.131e-02
8.972e-05	-1.286e-01	-4.521e-02
3.518e-03	-1.304e-01	-6.075e-02

Kinematic Anti-Squat Angle (FL/FR/RL/RR) [deg/mm]:

-1.903e-01	7.996e-01
-1.655e-01	6.922e-01
-8.591e-03	7.322e+00
-3.407e-01	7.156e+00

Calculated Parameters

Kinematic Roll Centre Heights (FL/FR/RL/RR) [mm]:

6.506e+01
6.430e+01
9.626e+01
9.979e+01

Virtual Swing Arm Lengths (FL/FR/RL/RR) [mm]:

4.369e+03
4.380e+03

3.475e+03

3.396e+03

Virtual Swing Arm Angles (FL/FR/RL/RR) [deg]:

4.550e+00

4.497e+00

6.748e+00

6.993e+00

Kinematic Roll Center Height (F/R) [mm]:

6.468e+01

9.799e+01

Kinematic Roll Center Lateral Offset (F/R) [mm]:

4.869e+00

-1.366e+01

Kinematic Anti-dive Angles (FL/FR/RL/RR) [deg]:

5.296e+00

5.216e+00

1.822e+01

1.851e+01

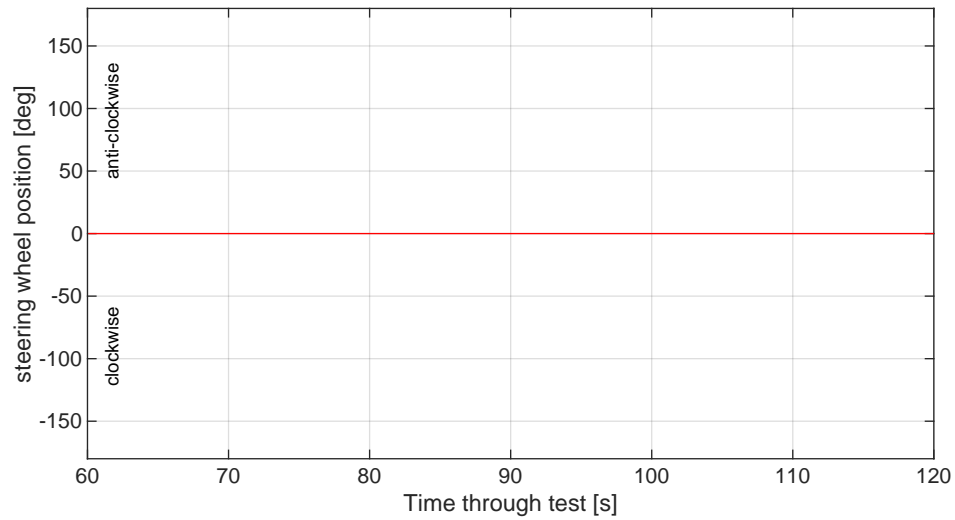
Kinematic Anti-Squat Angles (FL/FR/RL/RR) [deg]:

8.289e-01

7.141e-01

7.324e+00

7.288e+00



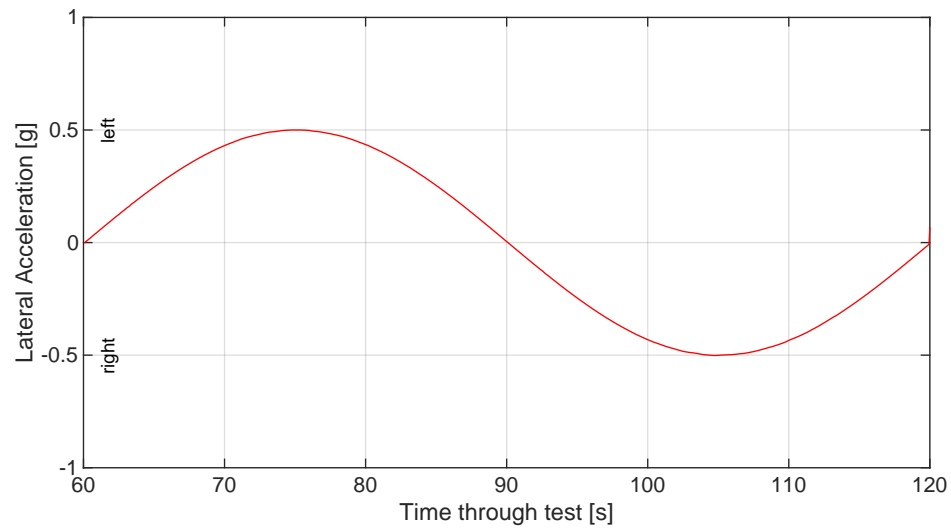
Cornering
Audi Q5
Steering Wheel Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 6 : Dynamic Tests
0.5g cornering test : Test #5 of 6
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



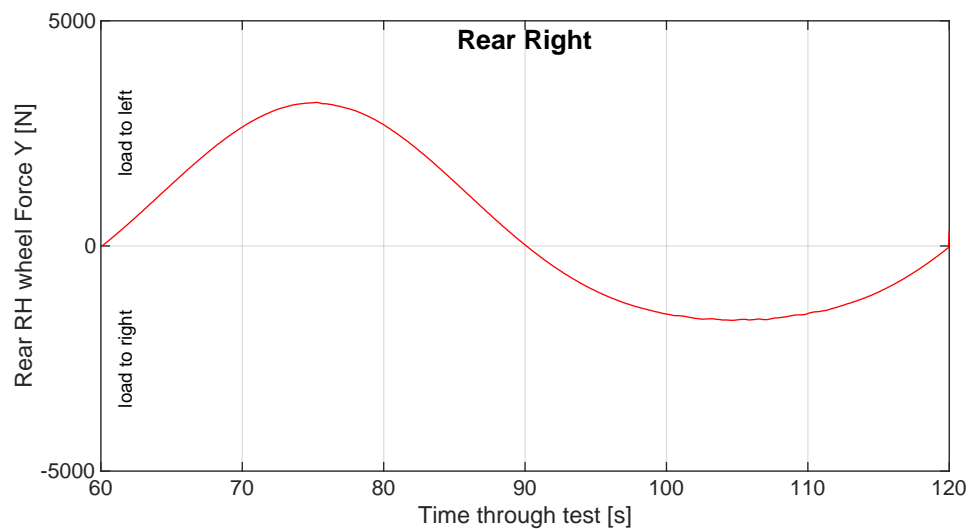
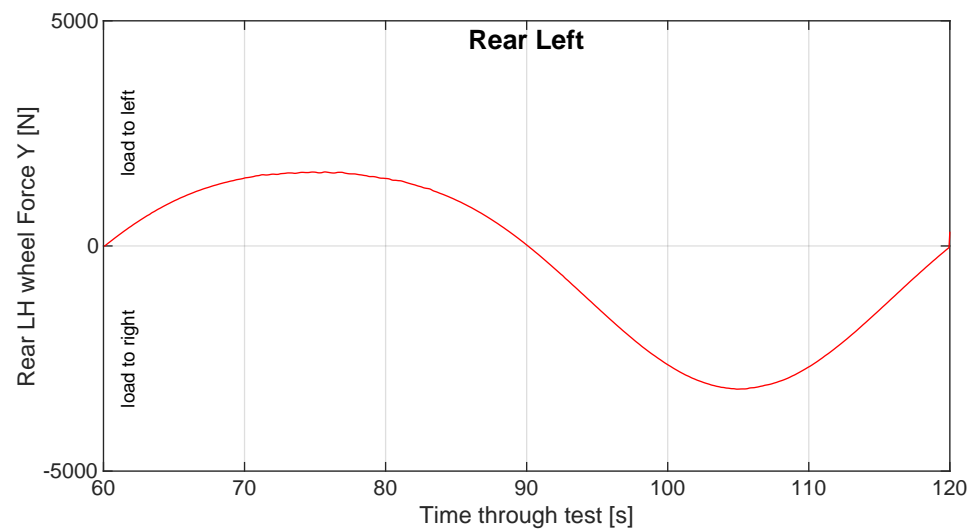
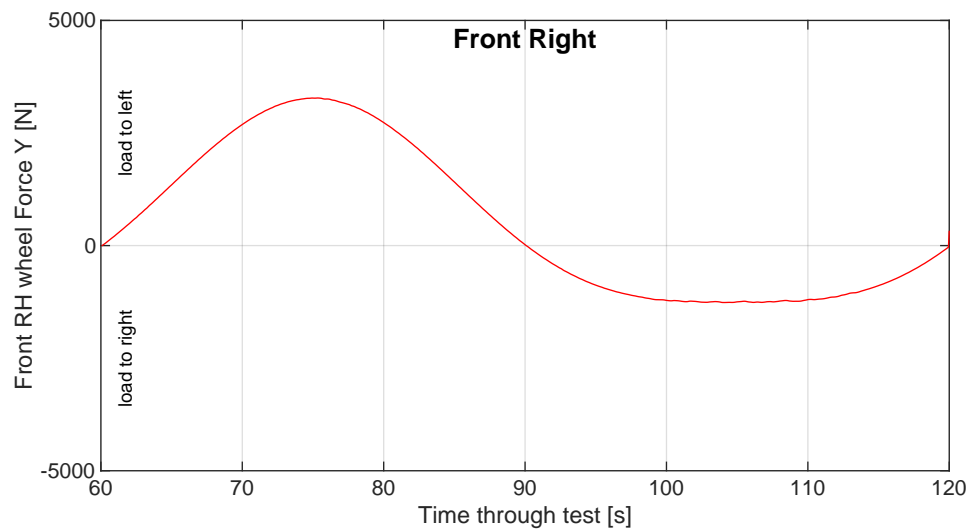
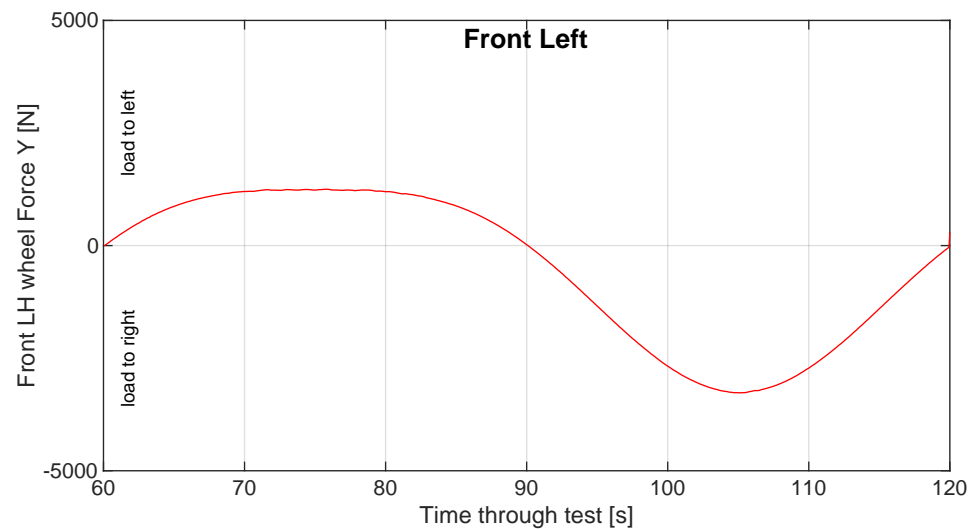
Cornering
Audi Q5
Lateral Acceleration
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 6 : Dynamic Tests
 0.5g cornering test : Test #5 of 6
 Test Run #1, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : No
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



Cornering

Audi Q5

Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

0.5g cornering test : Test #5 of 6

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

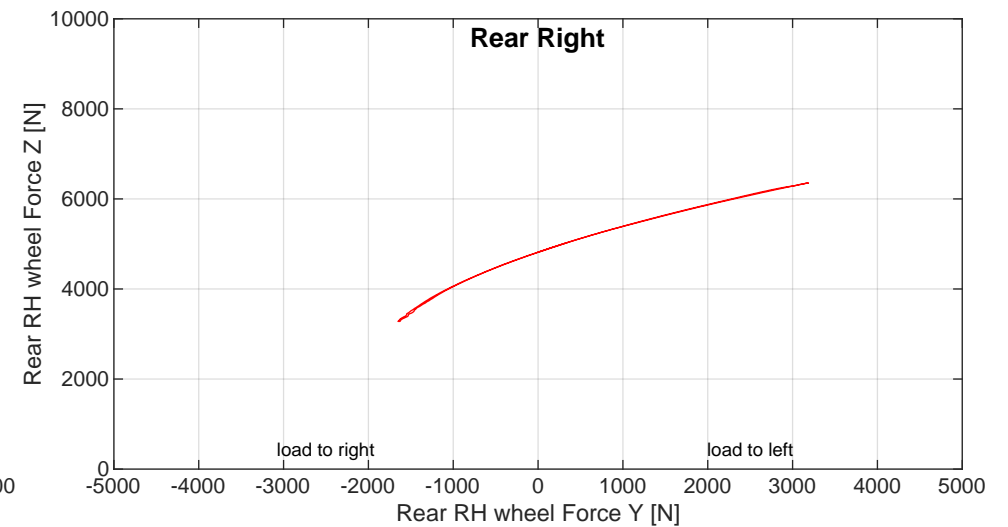
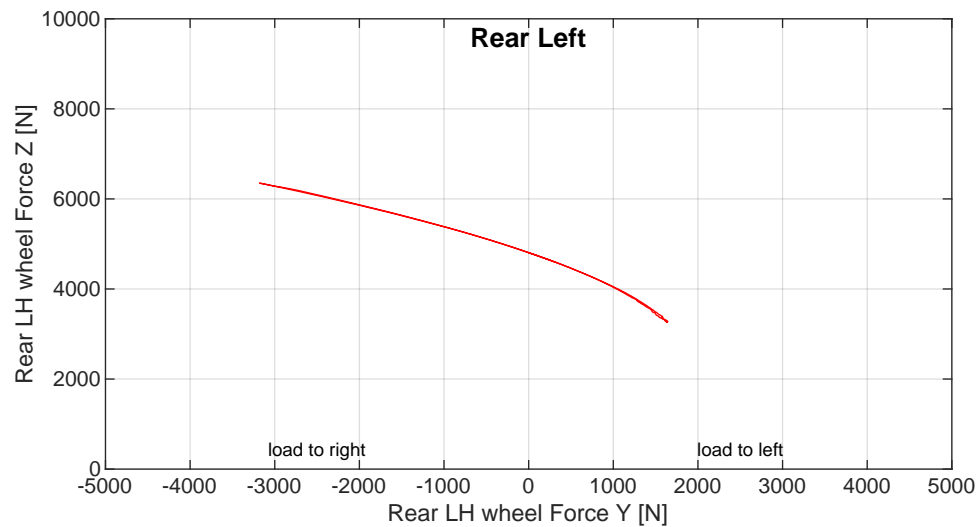
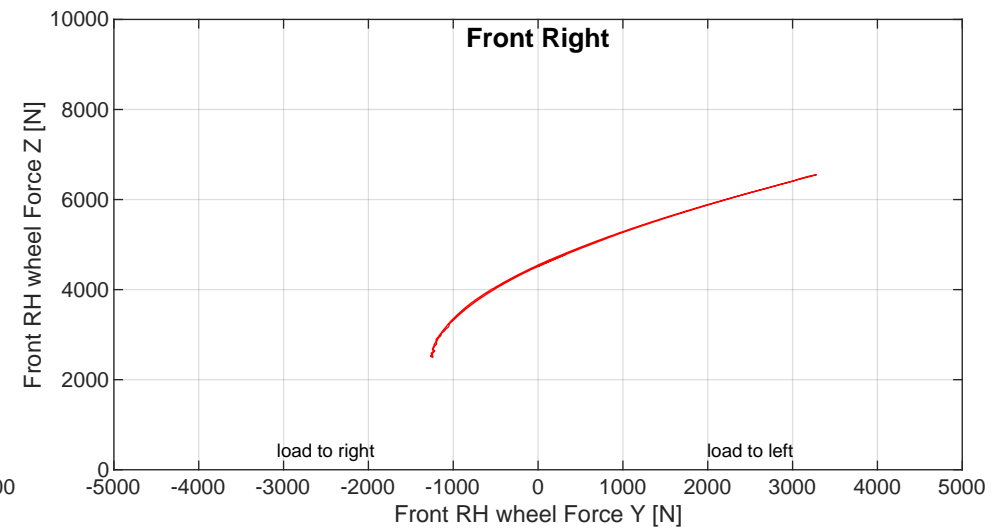
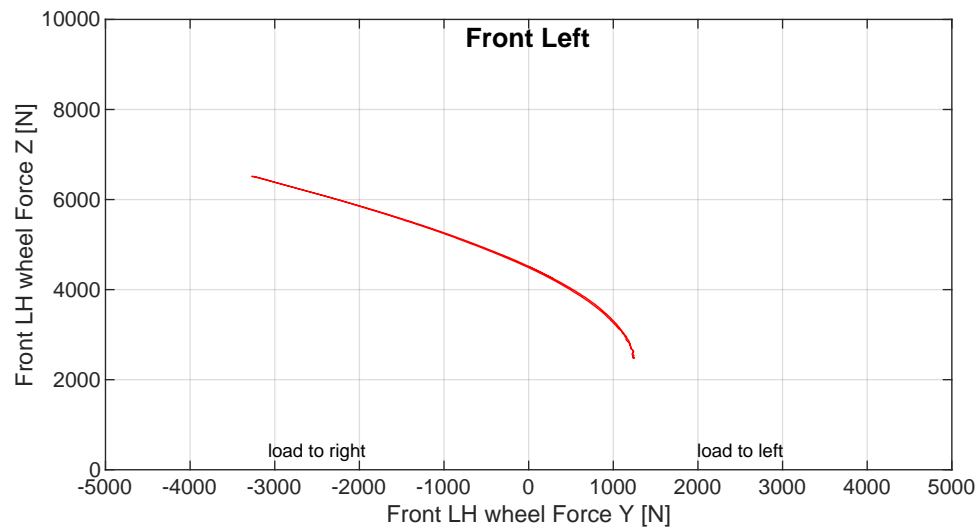
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Vertical Load v Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

0.5g cornering test : Test #5 of 6

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

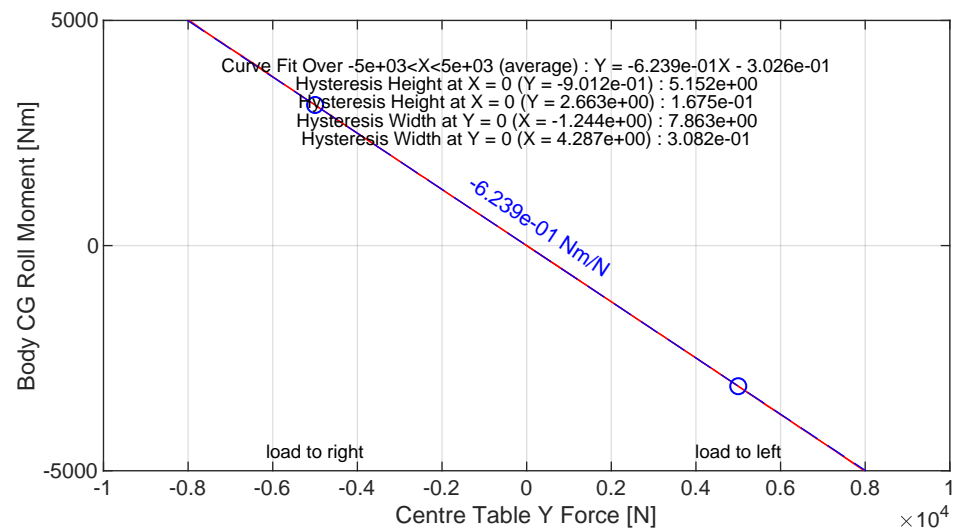
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Roll Moment vs Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 6 : Dynamic Tests

0.5g cornering test : Test #5 of 6

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



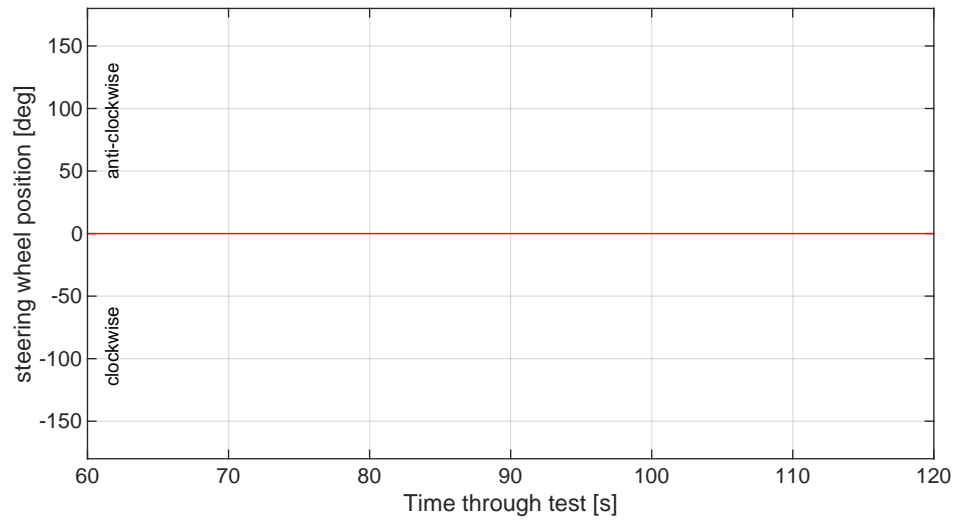
SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31

Plotted Curve Fit Coefficients

Roll Moment vs Lateral Load (V) [Nm/N]:

-6.239e-01 -3.026e-01

Calculated Parameters



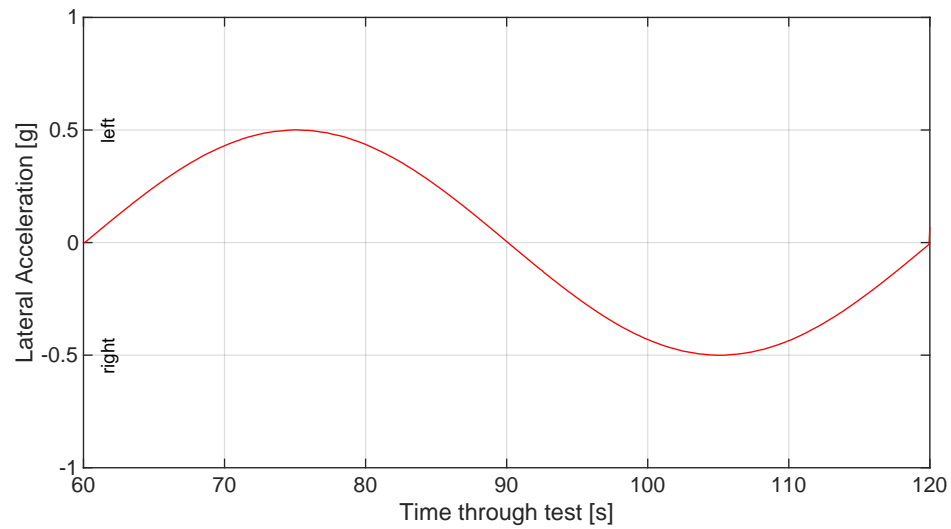
Cornering
Audi Q5
Steering Wheel Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 7 : VPS cornering
0.5g cornering test : Test #1 of 7
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



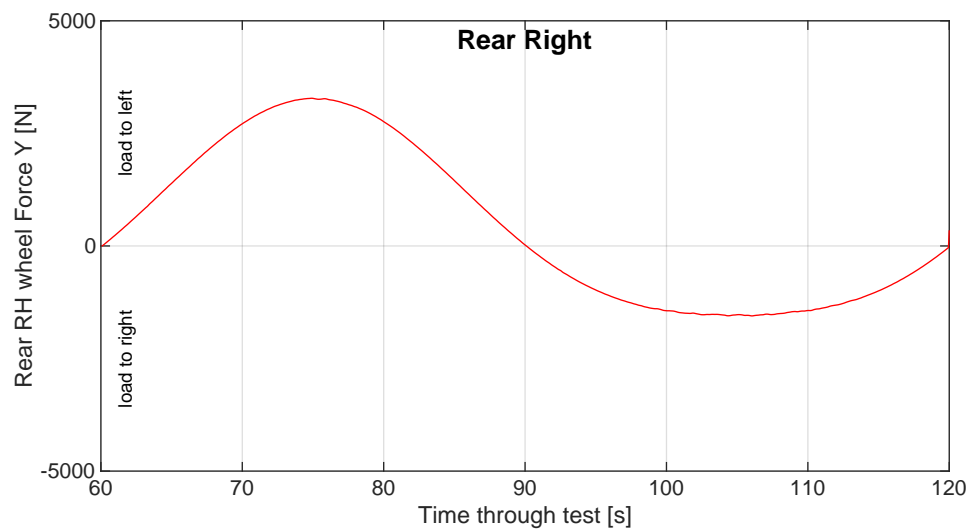
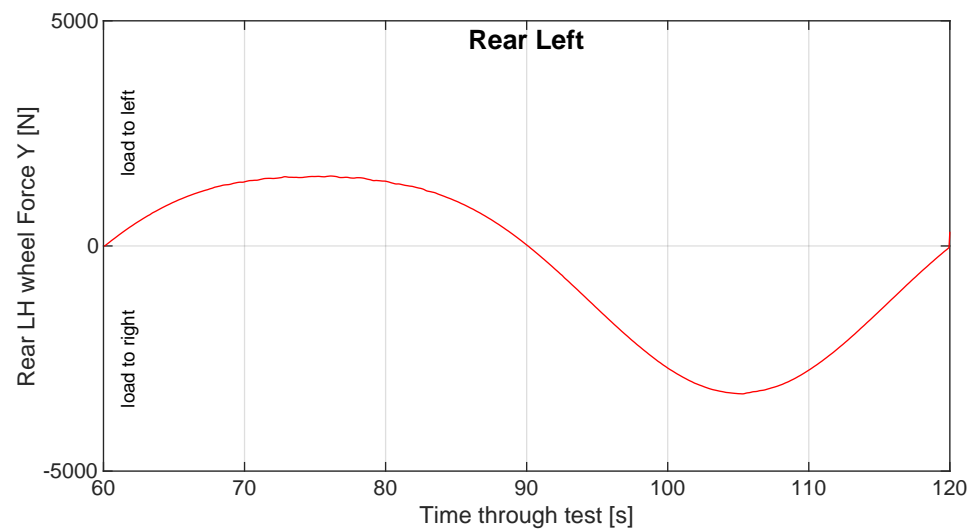
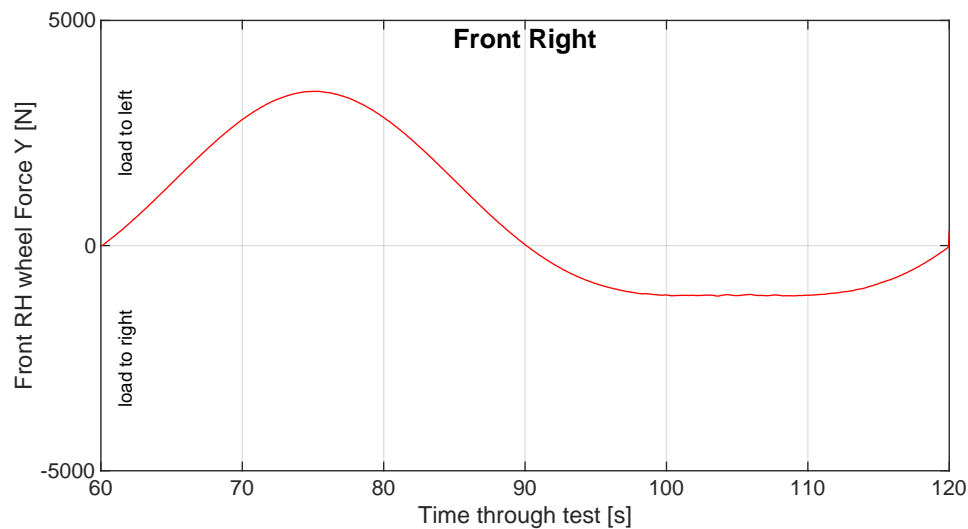
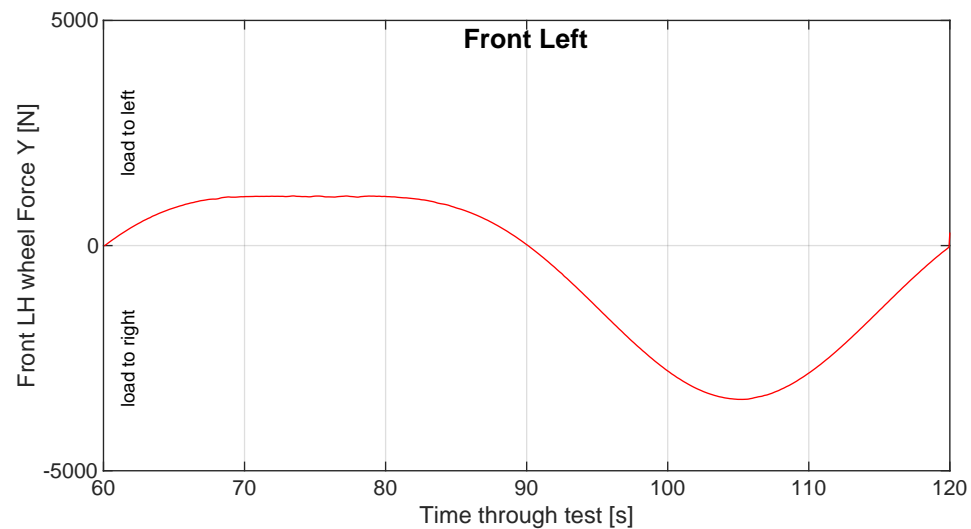
Cornering
Audi Q5
Lateral Acceleration
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 7 : VPS cornering
 0.5g cornering test : Test #1 of 7
 Test Run #1, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : No
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



Cornering

Audi Q5

Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #1 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

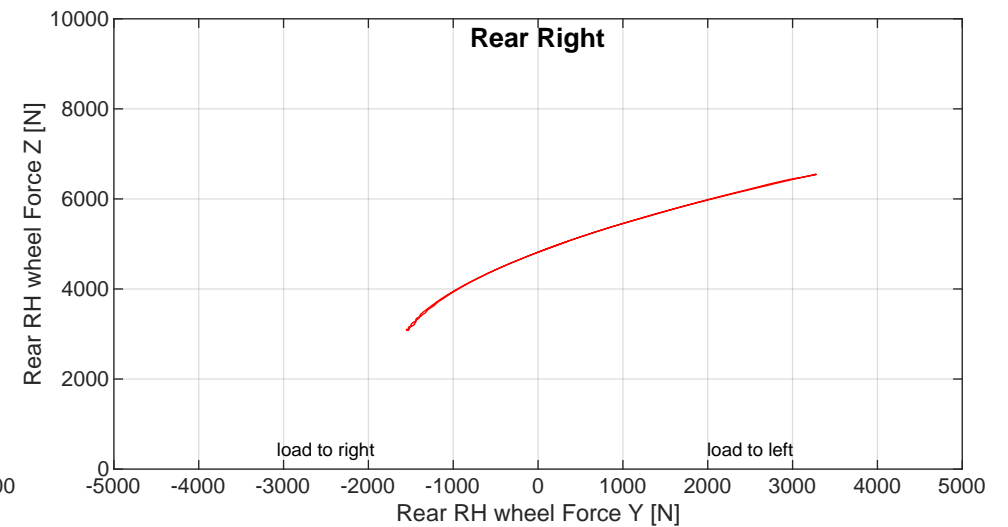
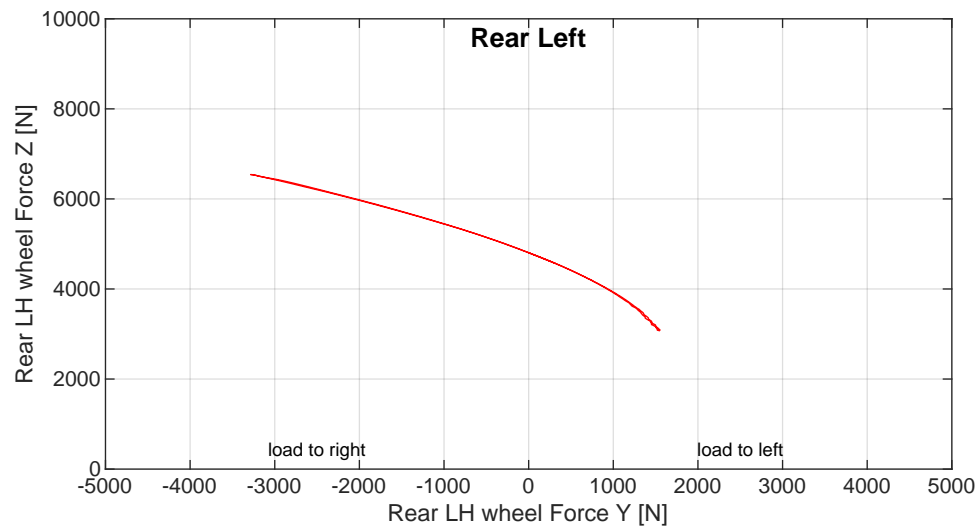
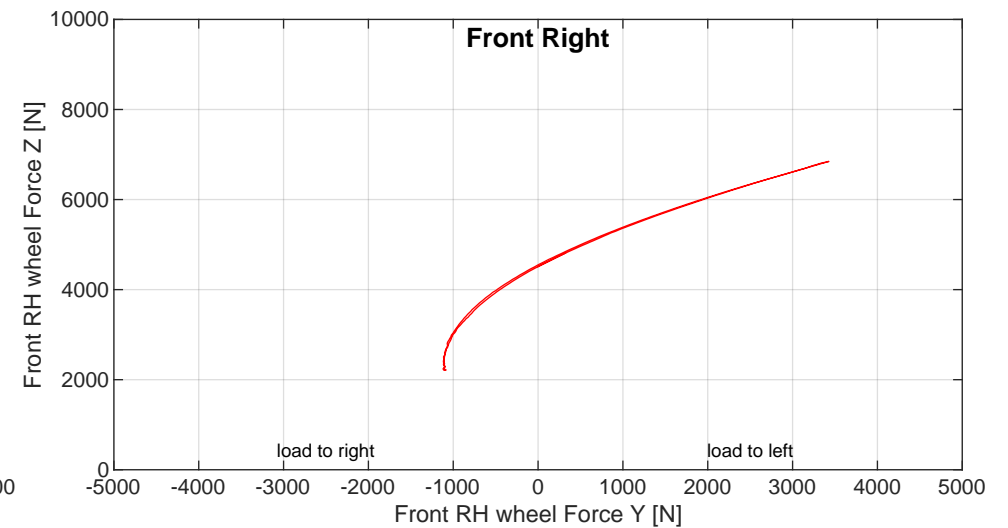
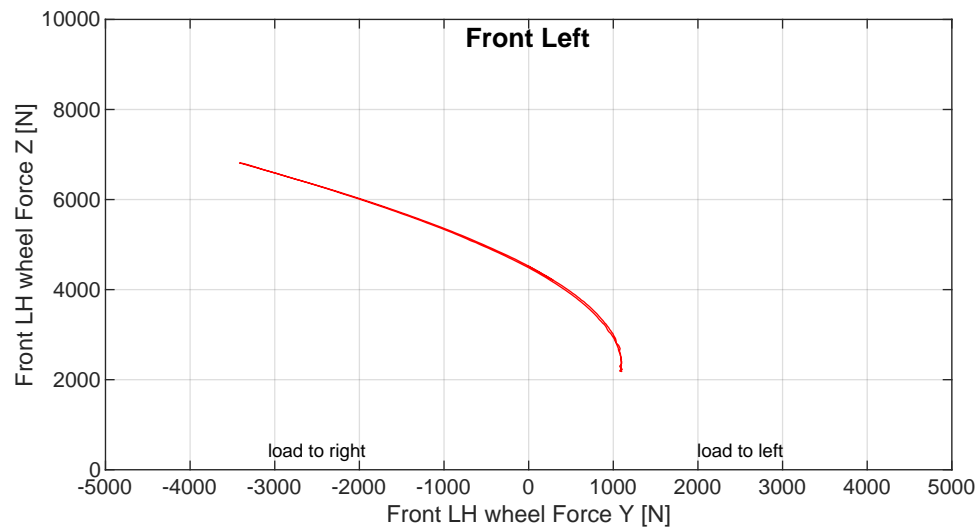
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



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SPMM Serial Number 31



Cornering

Audi Q5

Vertical Load v Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #1 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

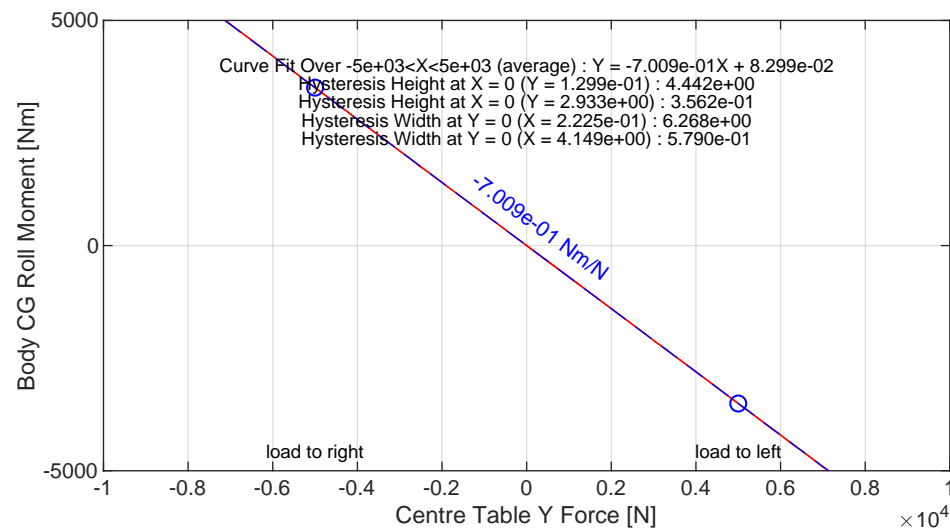
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Roll Moment vs Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #1 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



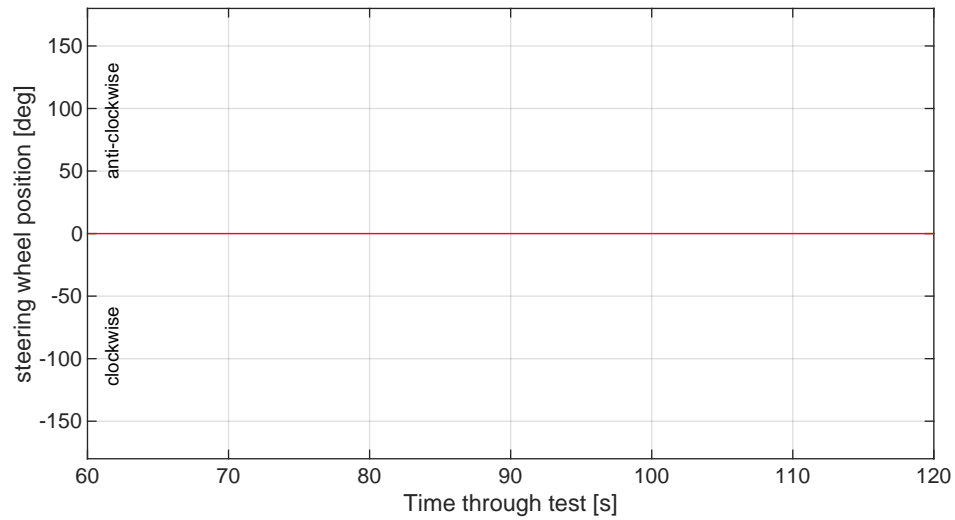
SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31

Plotted Curve Fit Coefficients

Roll Moment vs Lateral Load (V) [Nm/N]:

-7.009e-01 8.299e-02

Calculated Parameters



Cornering

Audi Q5

Steering Wheel Angle

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #2 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

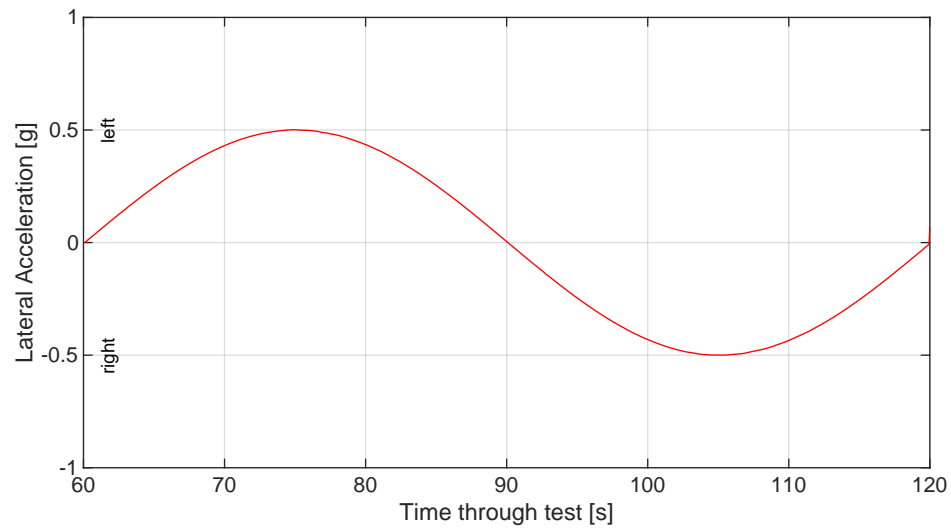
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



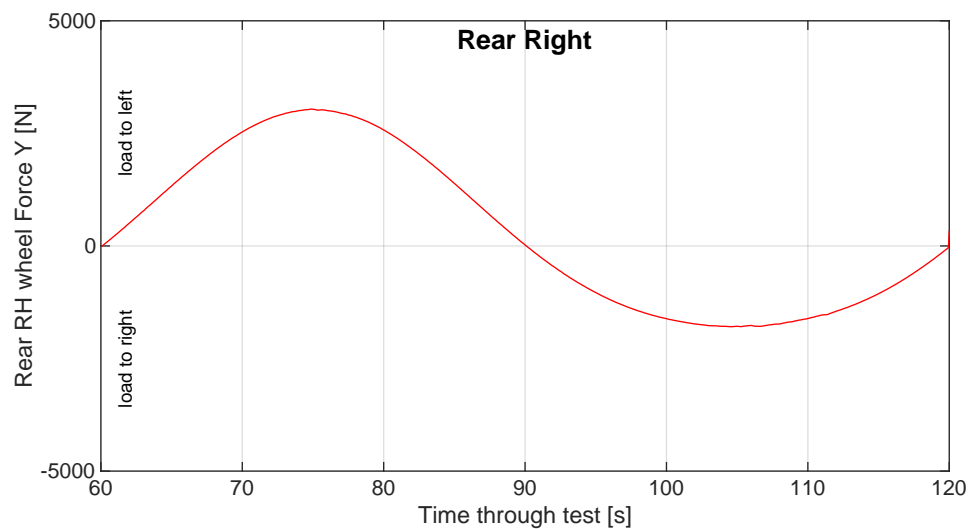
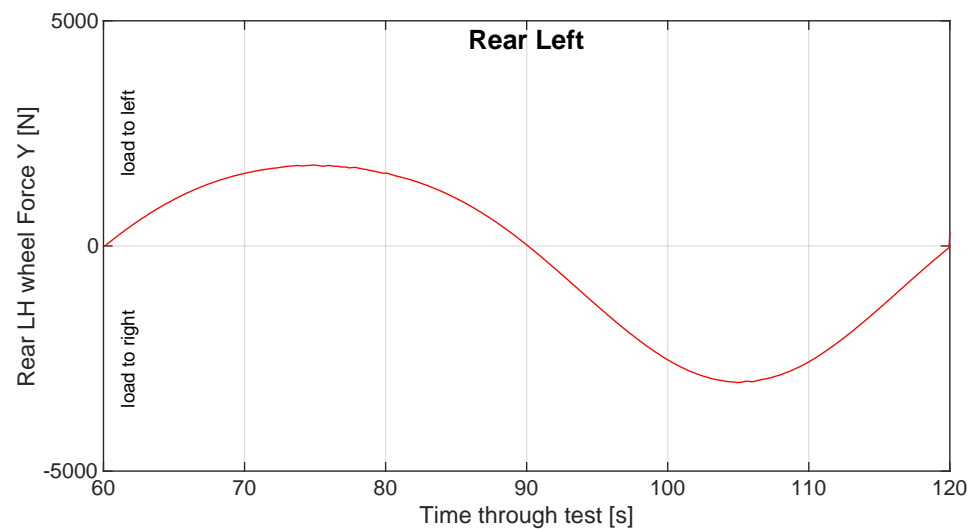
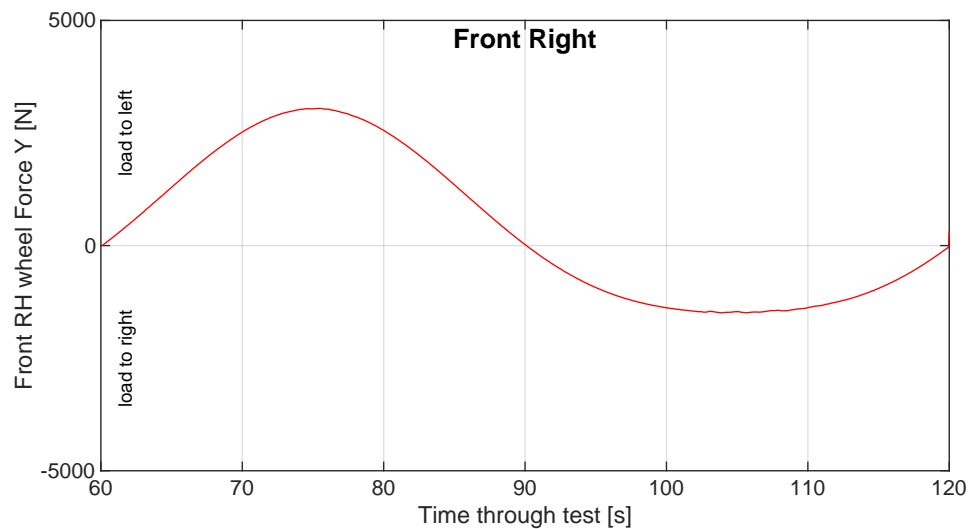
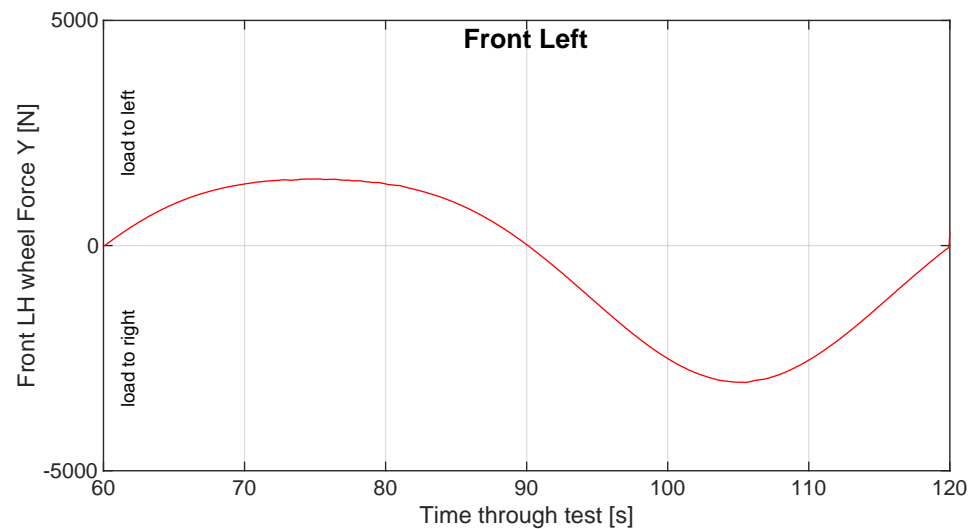
Cornering
Audi Q5
Lateral Acceleration
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 7 : VPS cornering
0.5g cornering test : Test #2 of 7
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #2 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

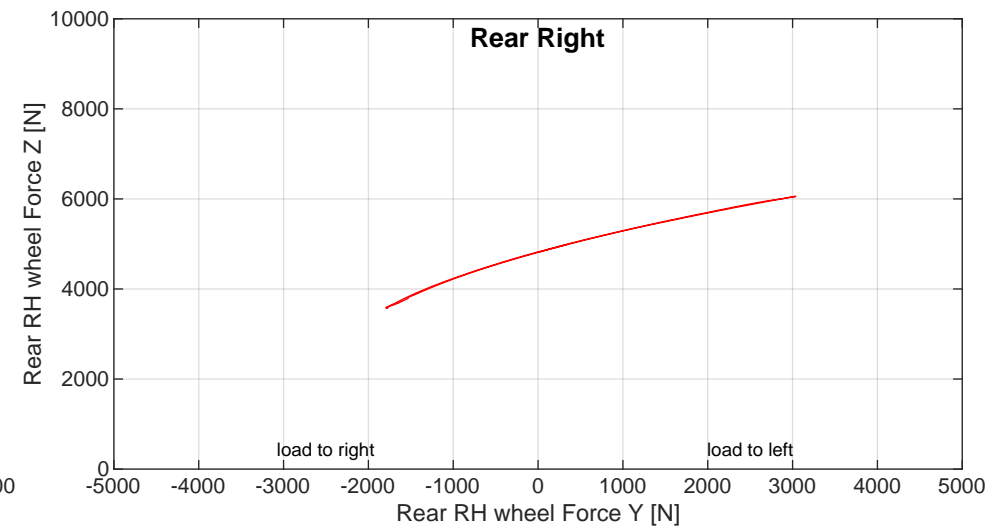
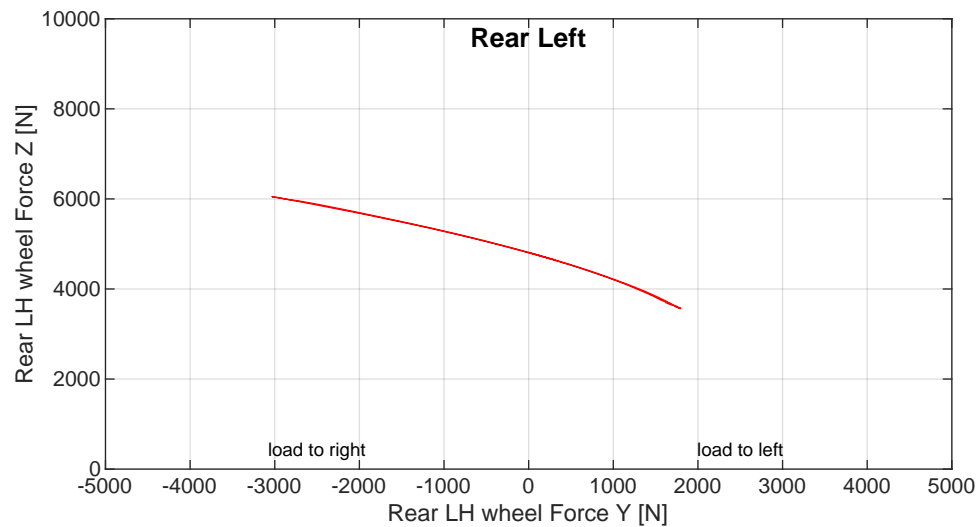
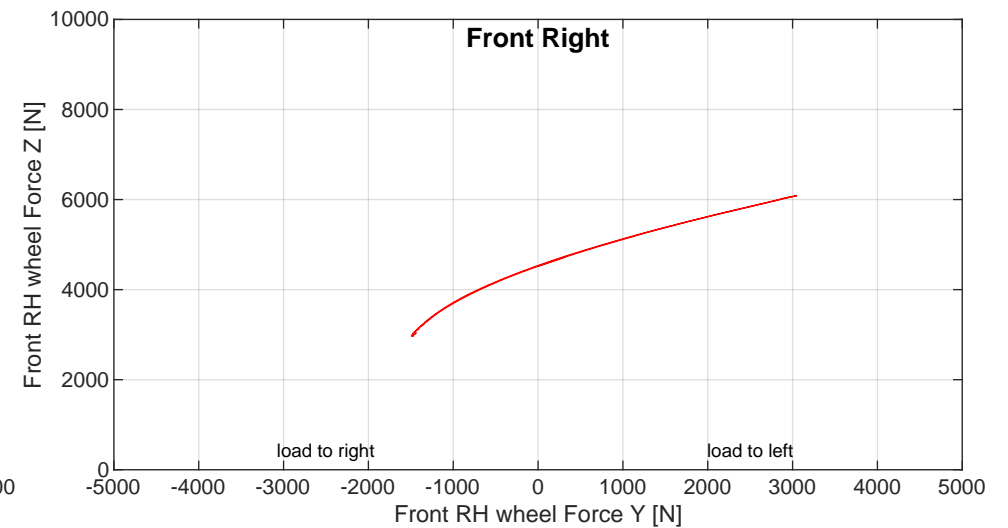
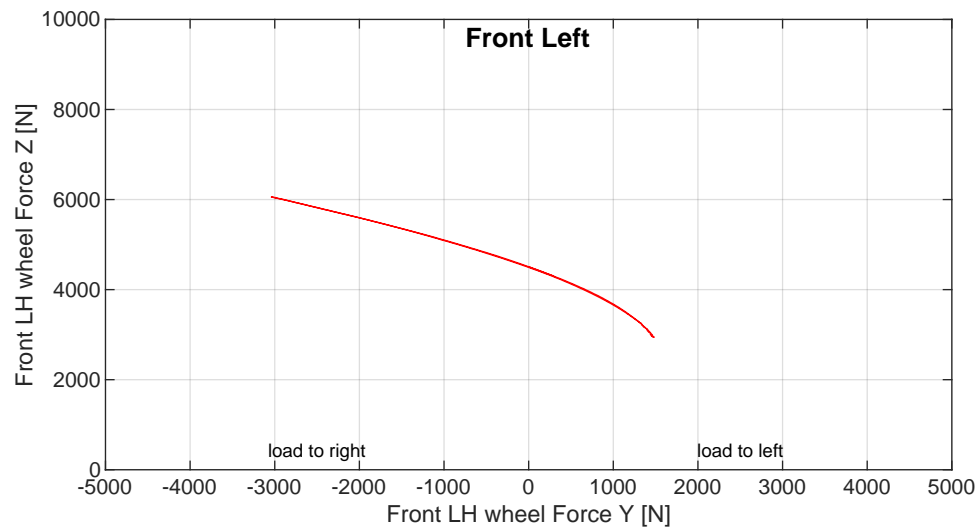
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Vertical Load v Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #2 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

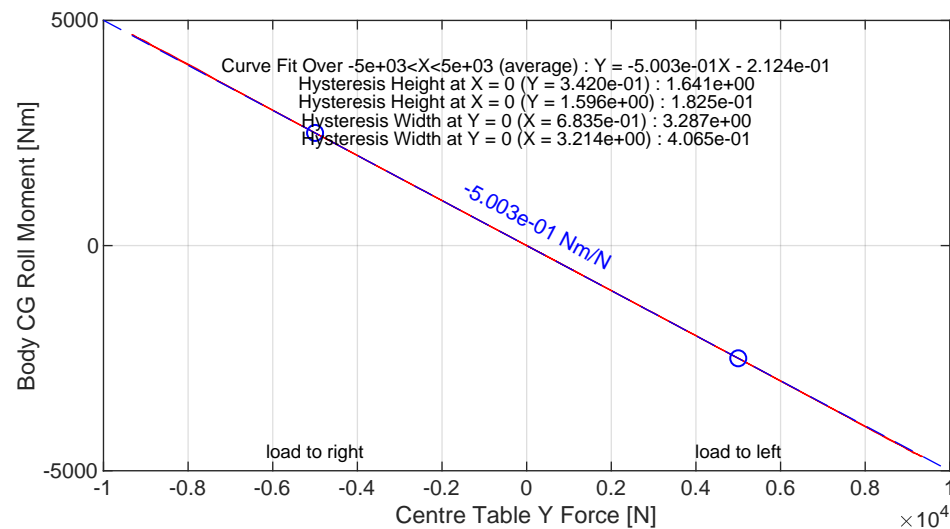
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Roll Moment vs Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #2 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



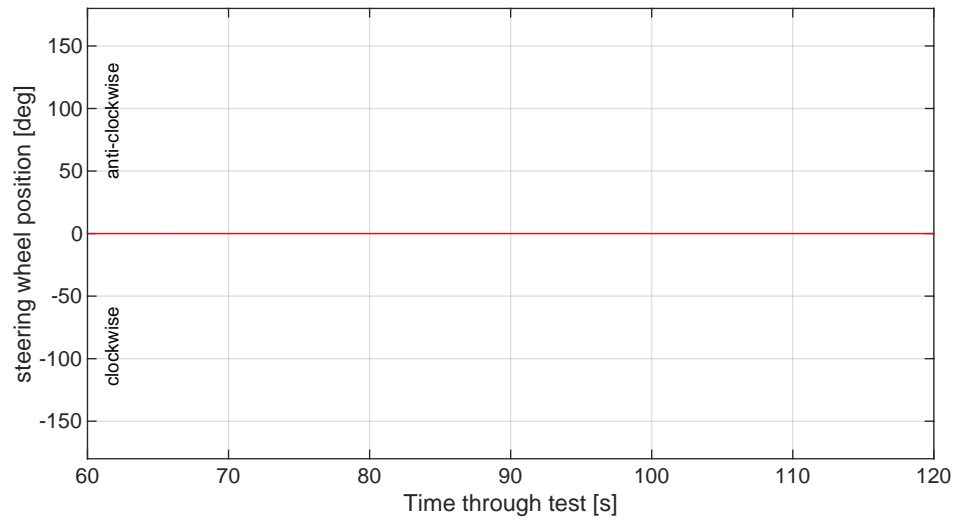
SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31

Plotted Curve Fit Coefficients

Roll Moment vs Lateral Load (V) [Nm/N]:

-5.003e-01 -2.124e-01

Calculated Parameters



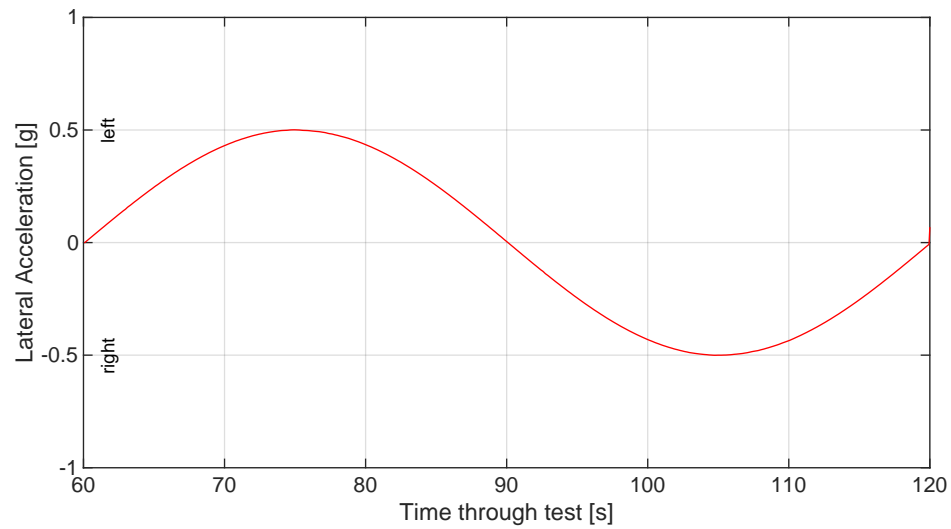
Cornering
Audi Q5
Steering Wheel Angle
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 7 : VPS cornering
 0.5g cornering test : Test #3 of 7
 Test Run #1, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : No
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



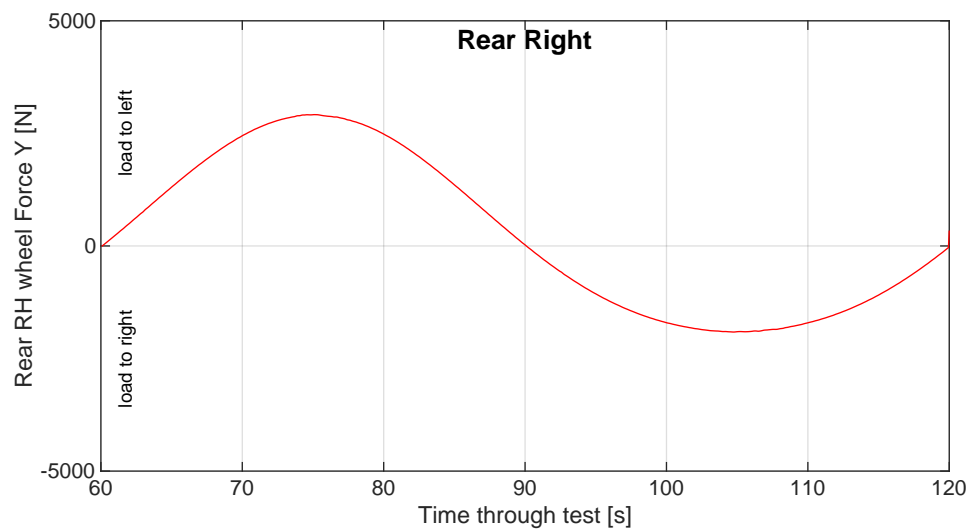
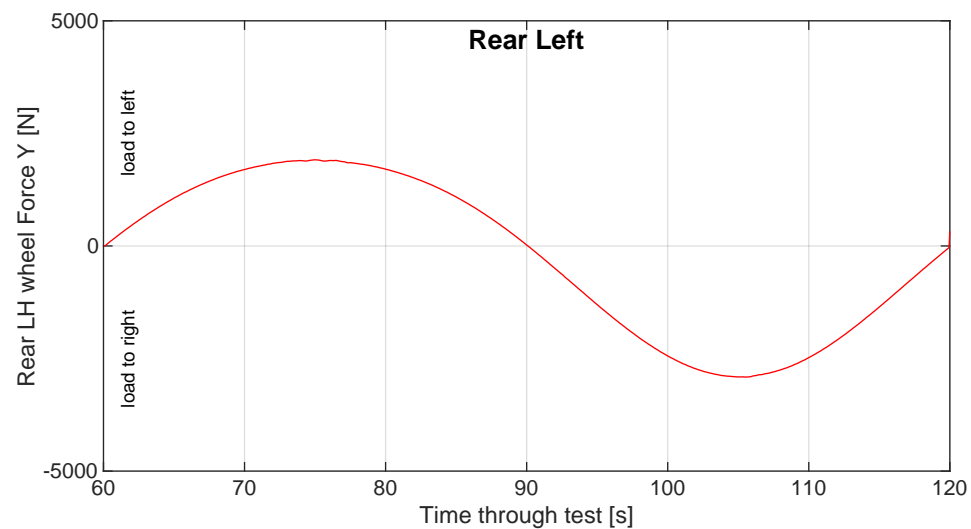
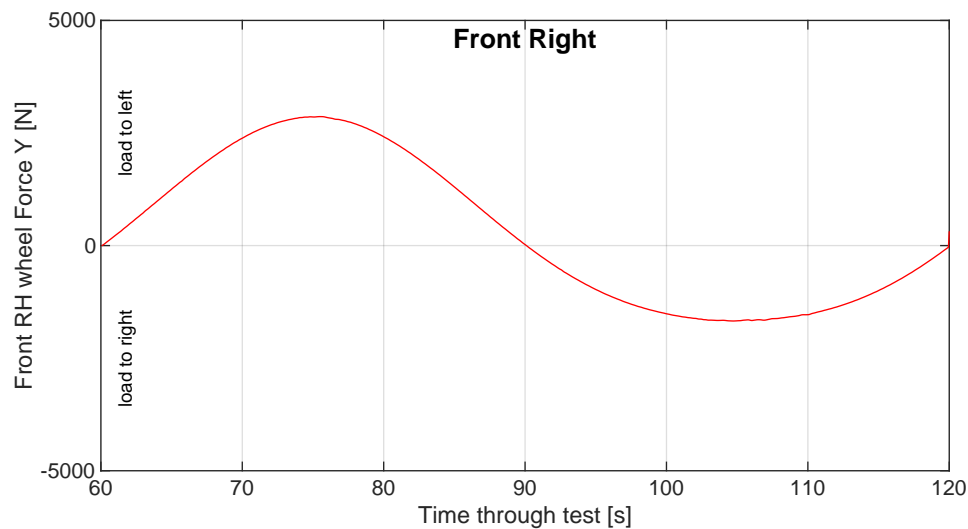
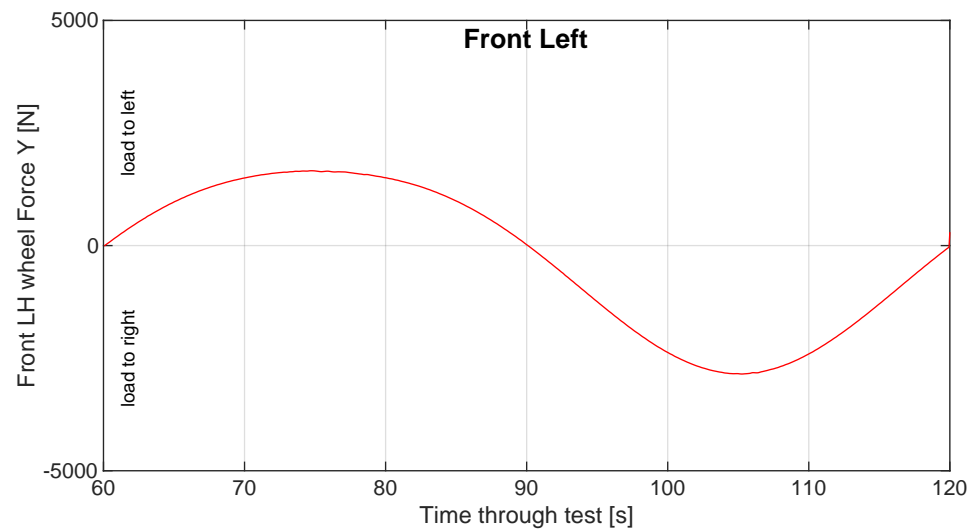
Cornering
Audi Q5
Lateral Acceleration
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 7 : VPS cornering
 0.5g cornering test : Test #3 of 7
 Test Run #1, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : No
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



Cornering

Audi Q5

Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #3 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

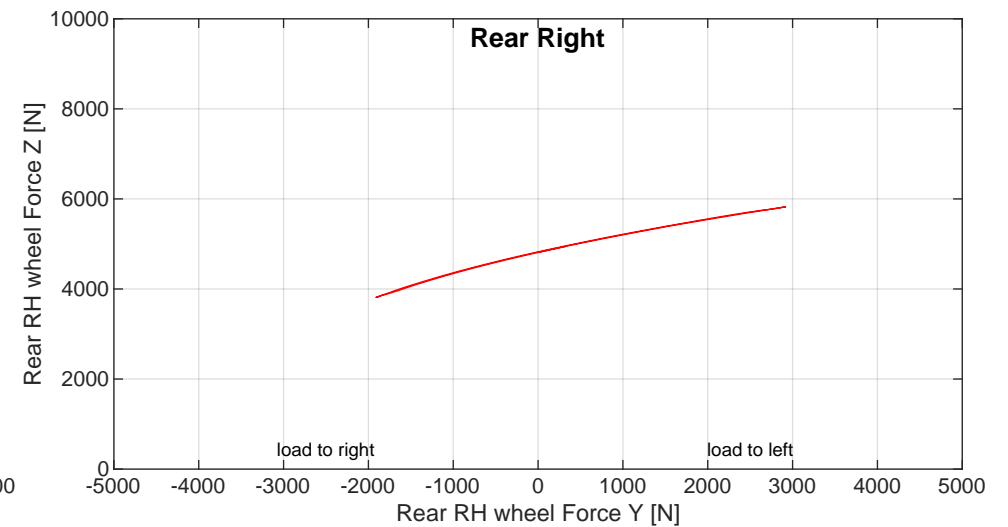
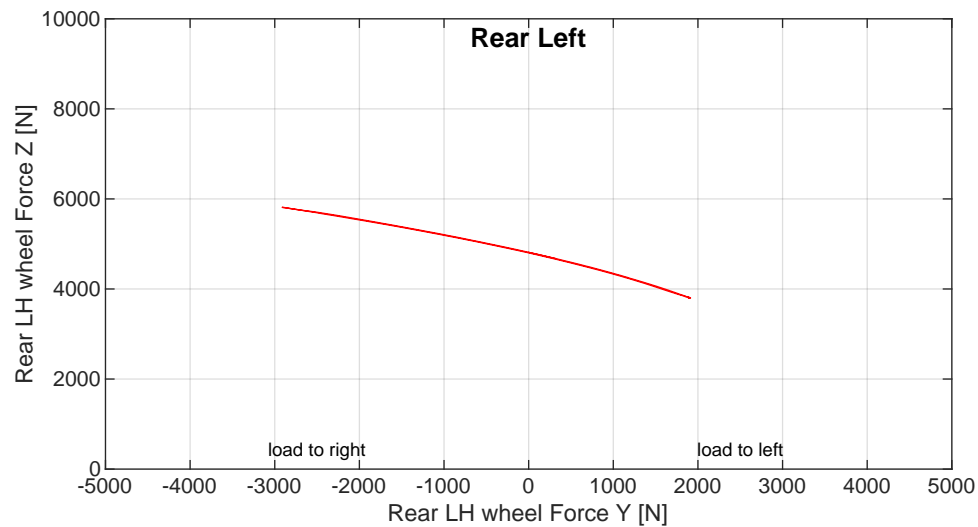
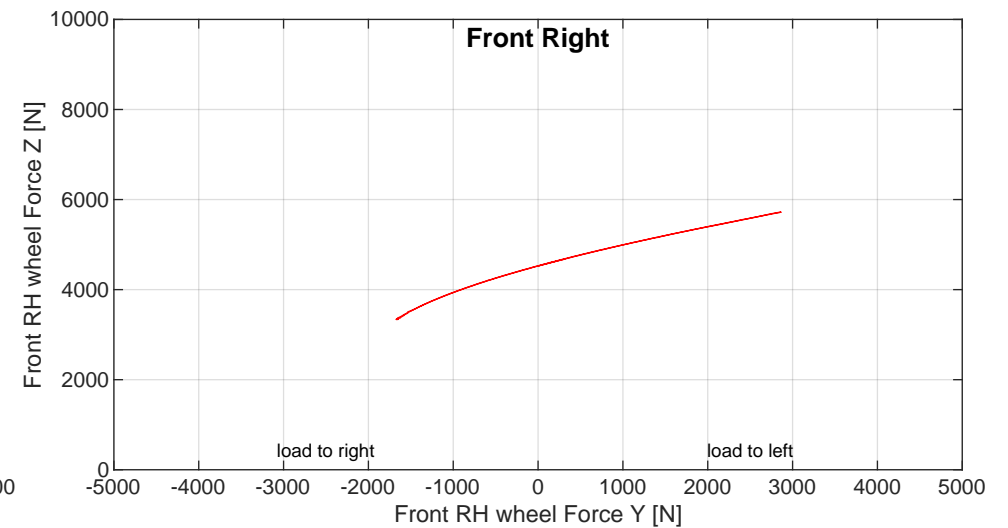
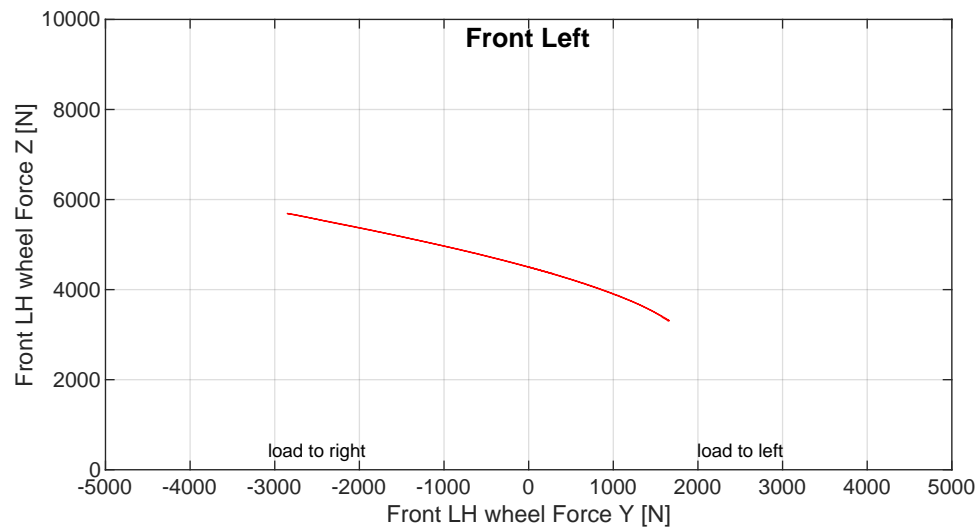
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Vertical Load v Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #3 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

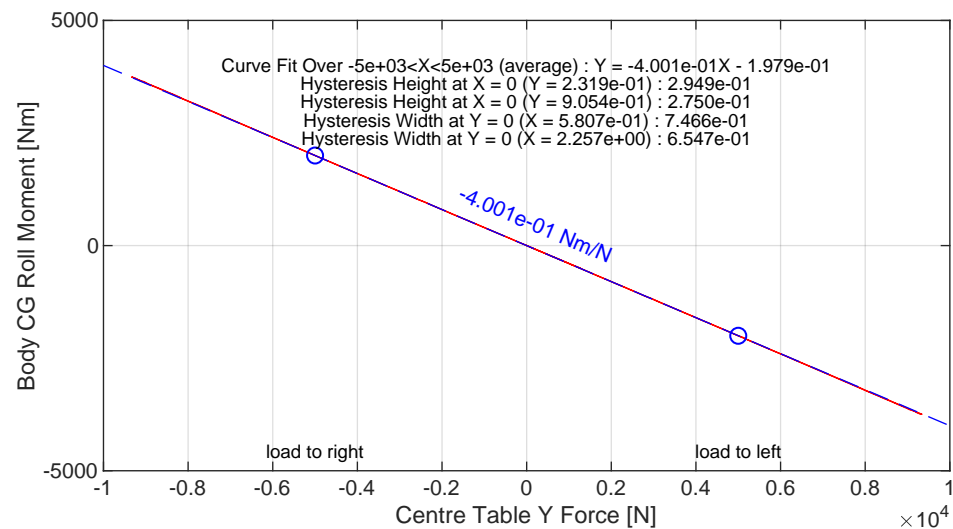
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Roll Moment vs Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #3 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



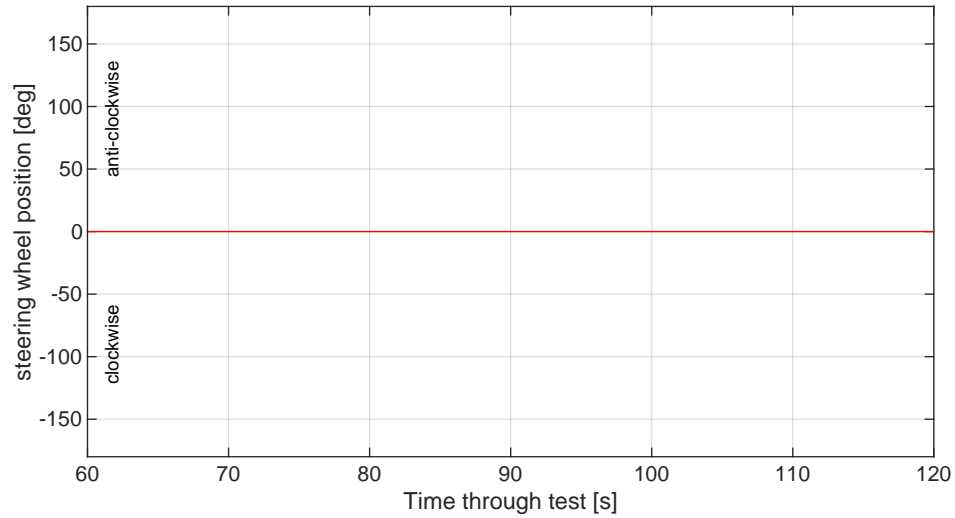
SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31

Plotted Curve Fit Coefficients

Roll Moment vs Lateral Load (V) [Nm/N]:

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Calculated Parameters



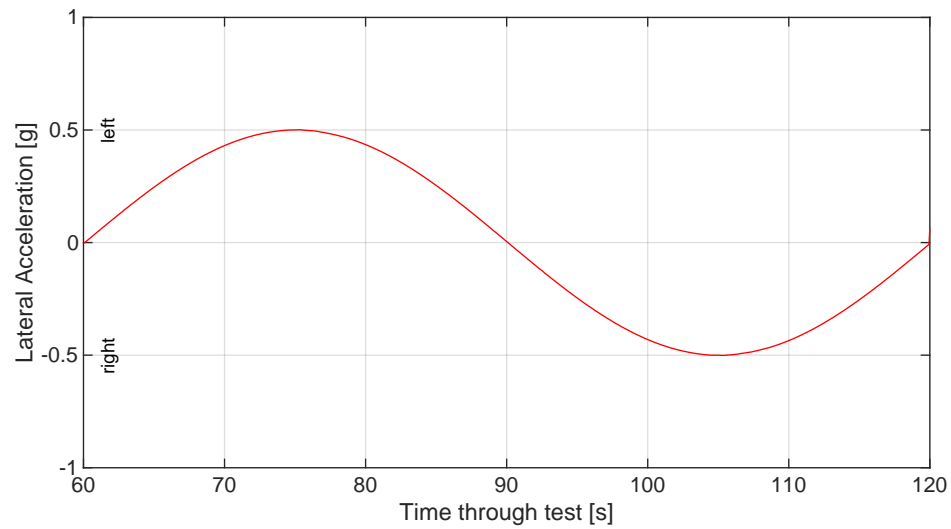
Cornering
Audi Q5
Steering Wheel Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 7 : VPS cornering
0.5g cornering test : Test #4 of 7
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



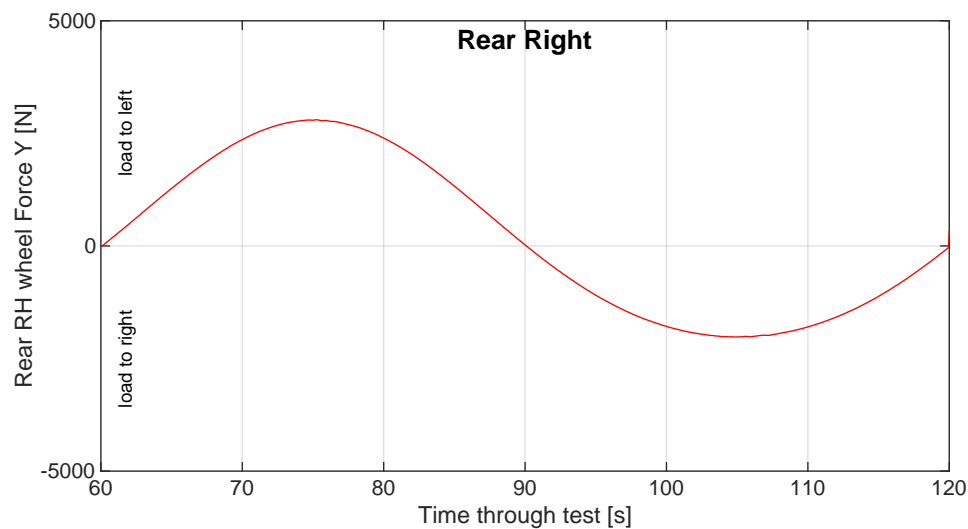
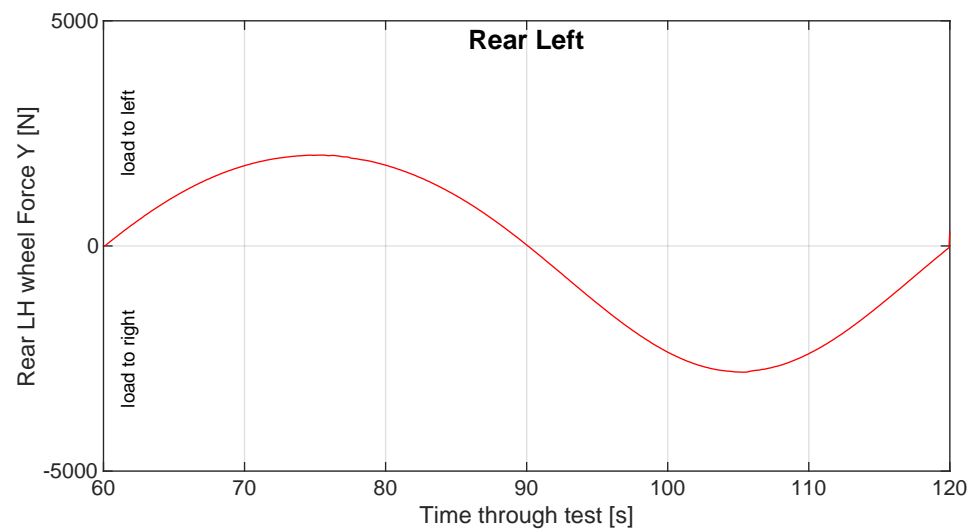
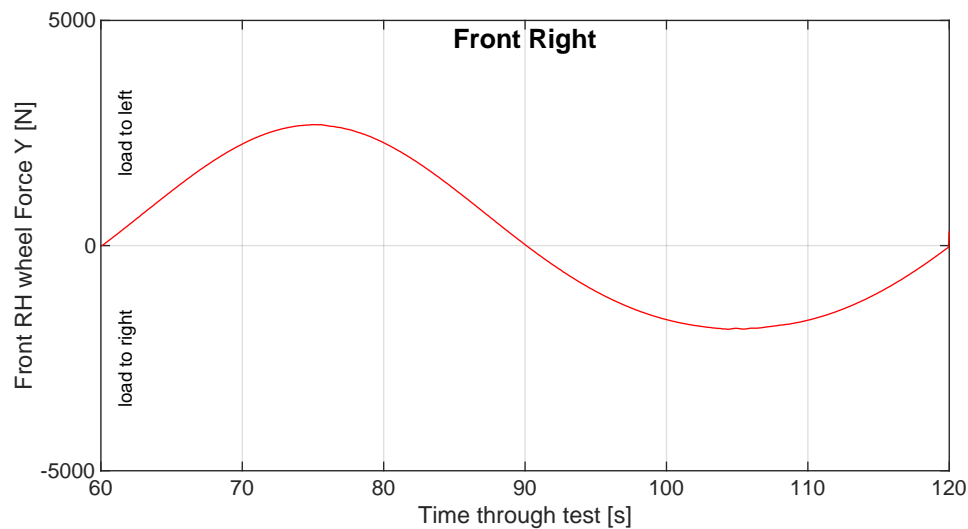
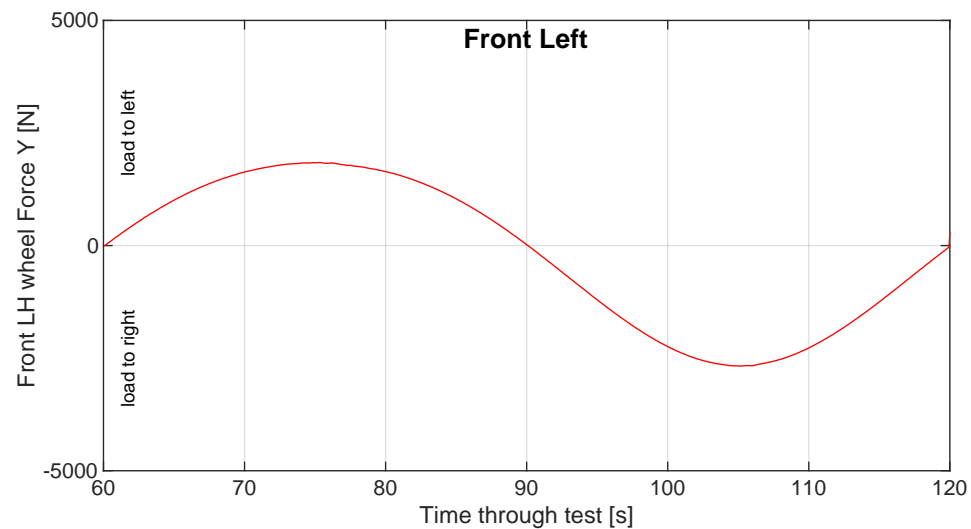
Cornering
Audi Q5
Lateral Acceleration
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 7 : VPS cornering
0.5g cornering test : Test #4 of 7
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #4 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

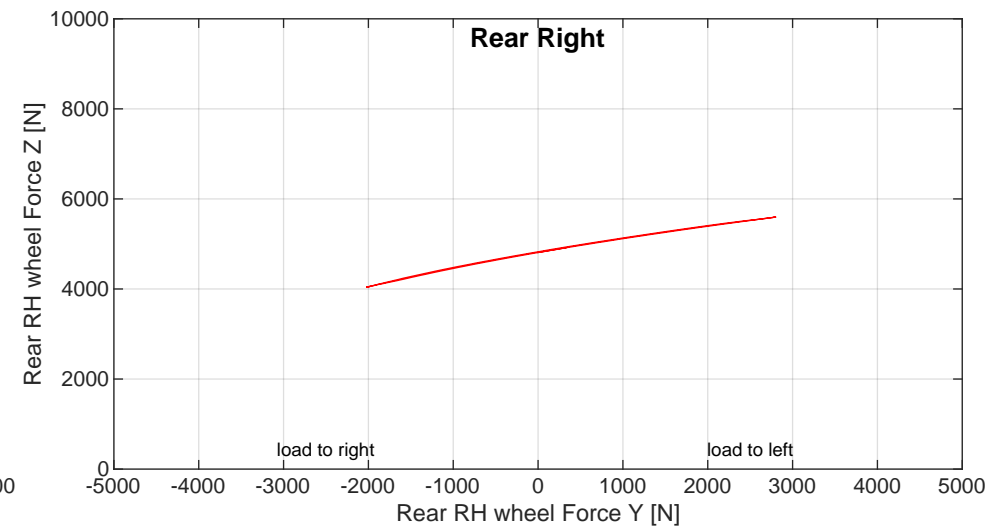
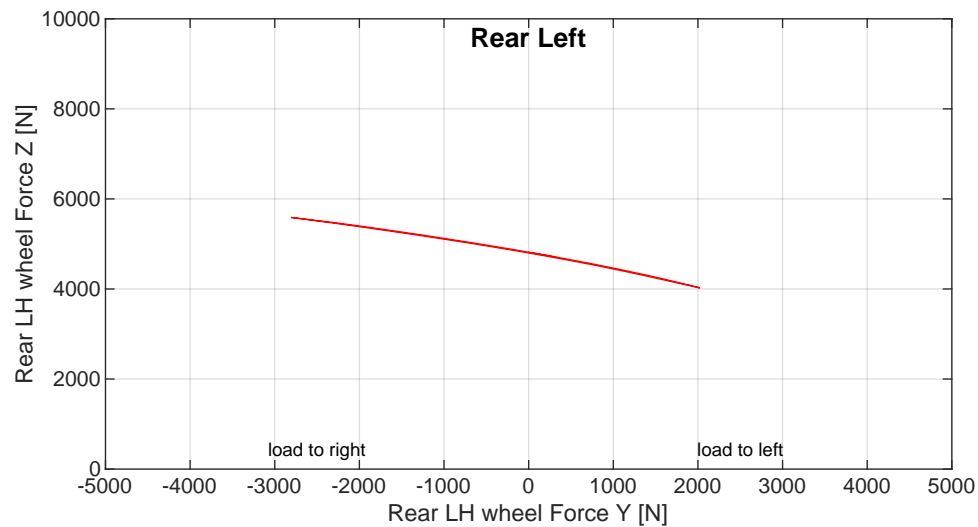
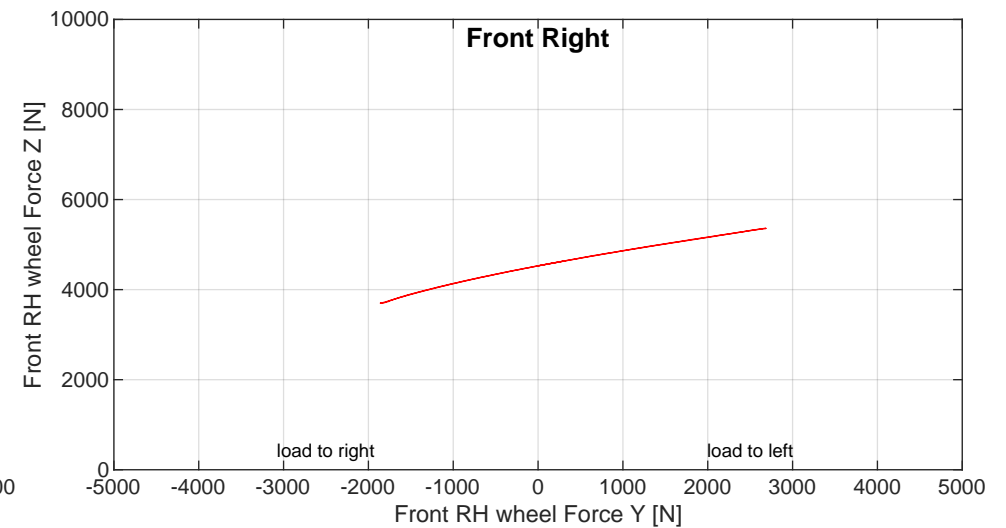
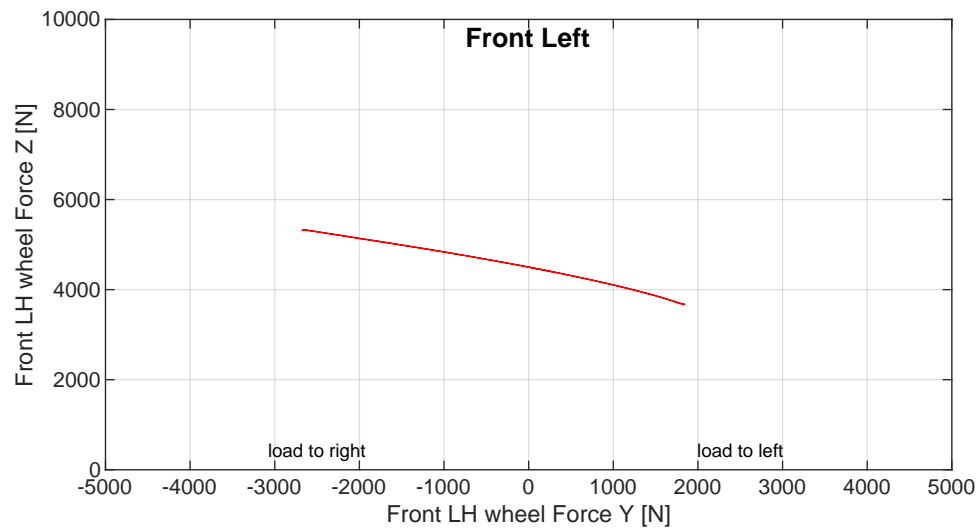
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Vertical Load v Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #4 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

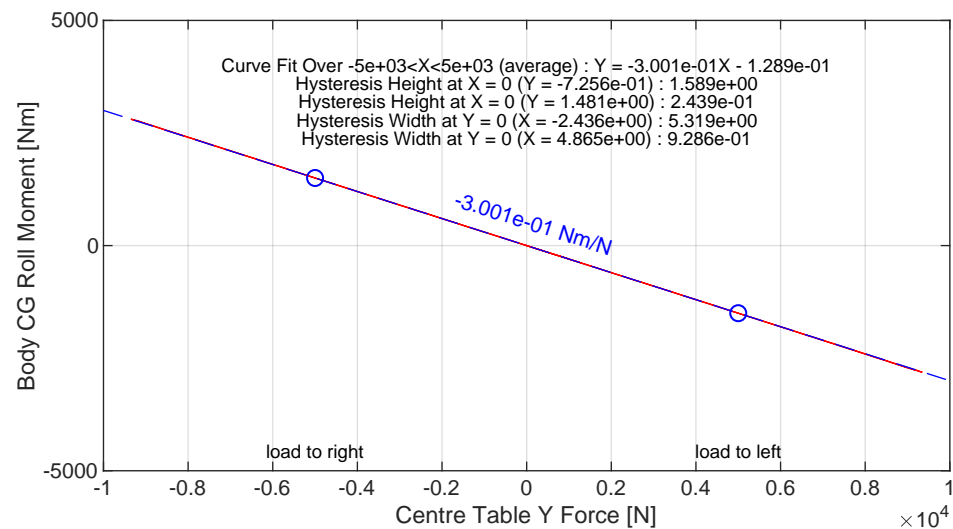
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Roll Moment vs Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #4 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



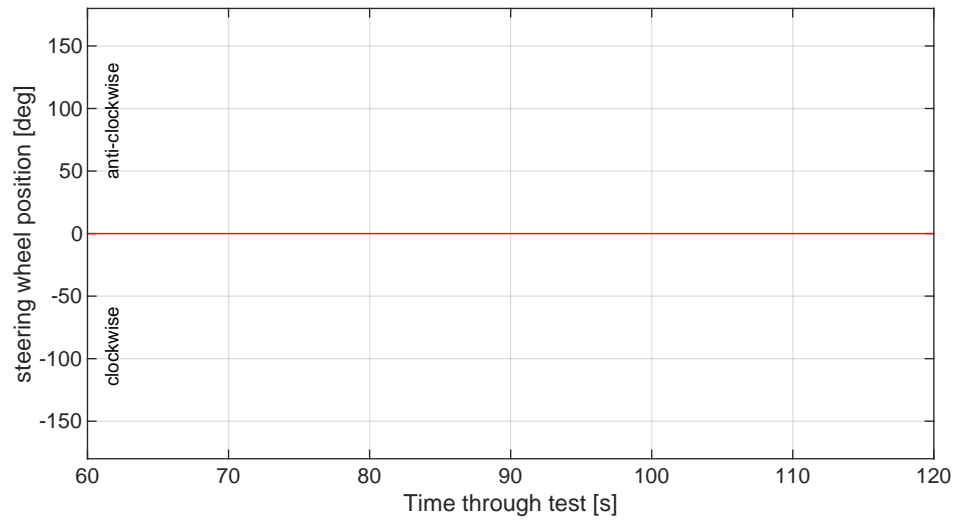
SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31

Plotted Curve Fit Coefficients

Roll Moment vs Lateral Load (V) [Nm/N]:

-3.001e-01 -1.289e-01

Calculated Parameters



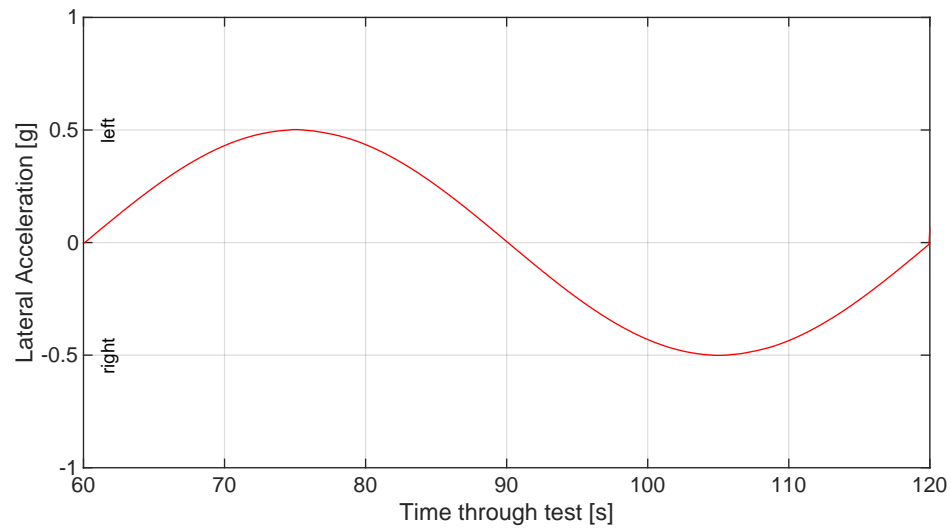
Cornering
Audi Q5
Steering Wheel Angle
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 7 : VPS cornering
0.5g cornering test : Test #5 of 7
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



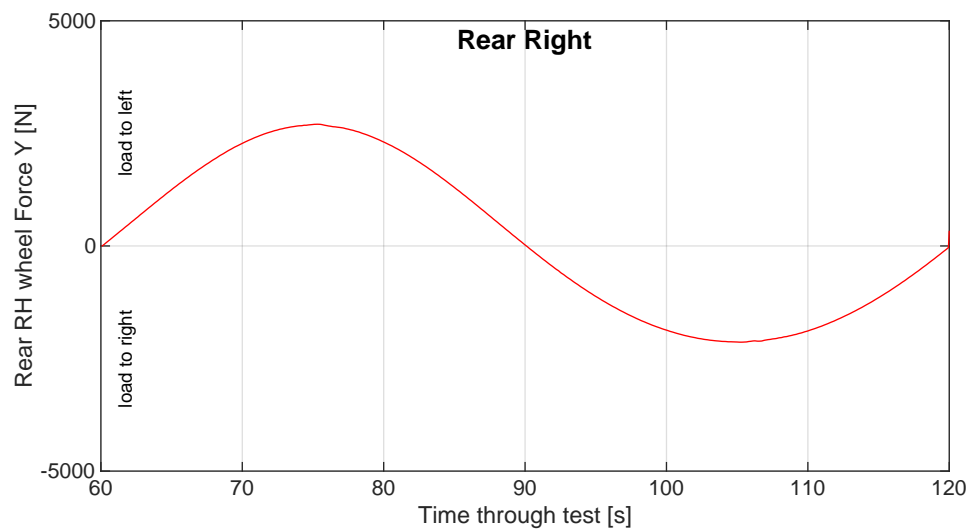
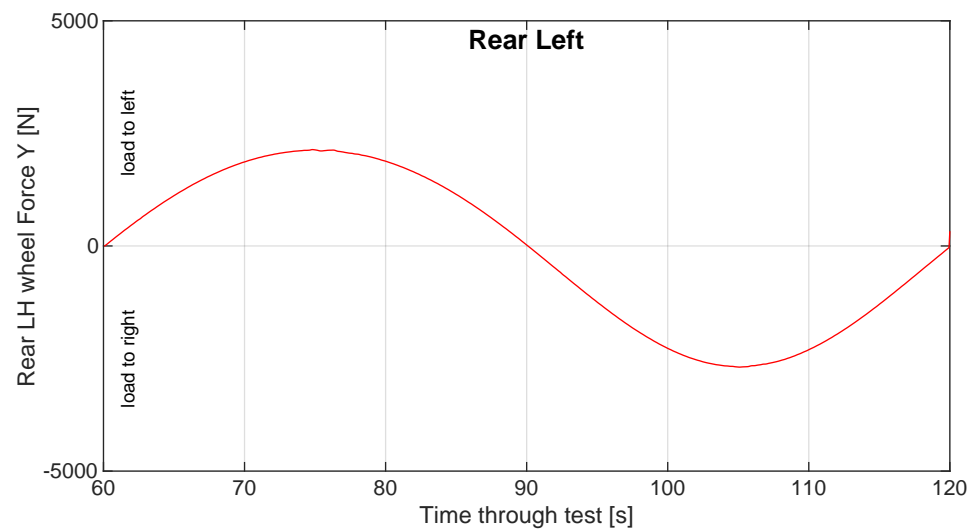
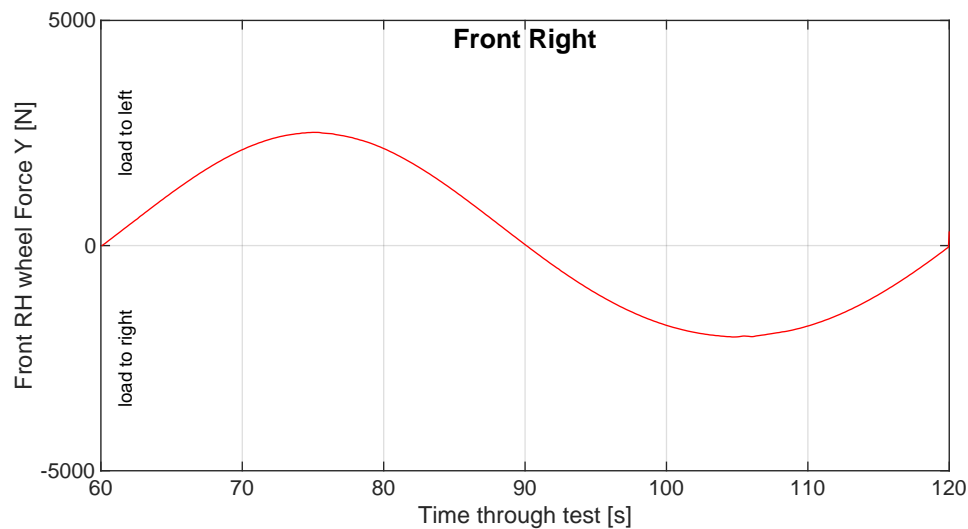
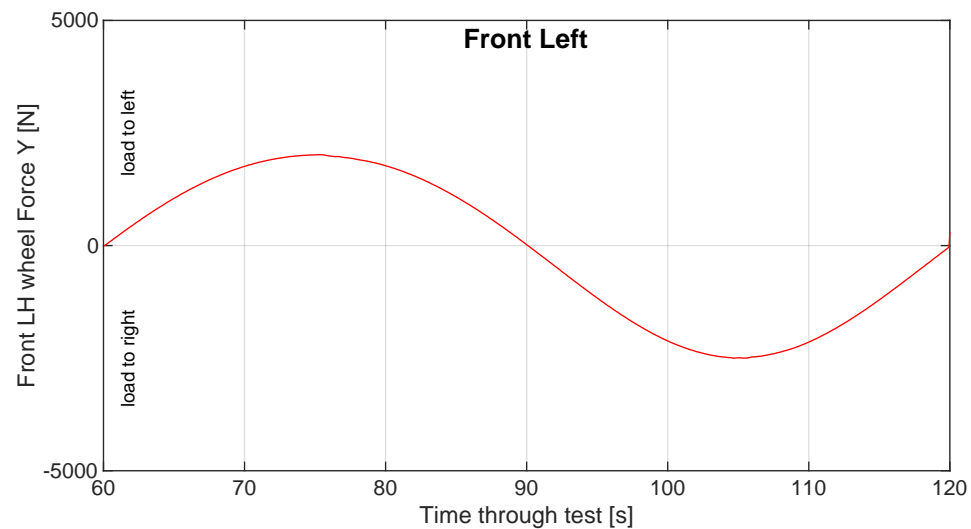
Cornering
Audi Q5
Lateral Acceleration
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 7 : VPS cornering
 0.5g cornering test : Test #5 of 7
 Test Run #1, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : No
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



Cornering

Audi Q5

Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #5 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

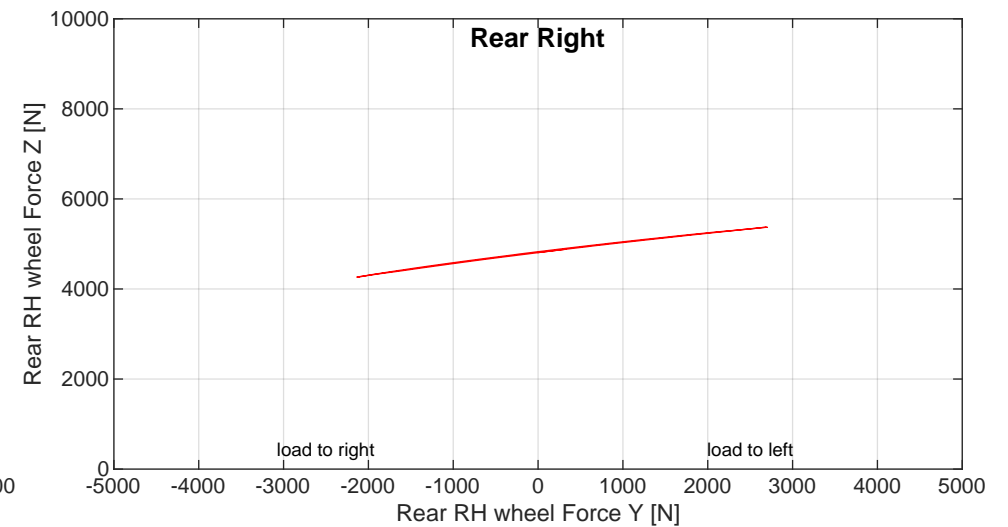
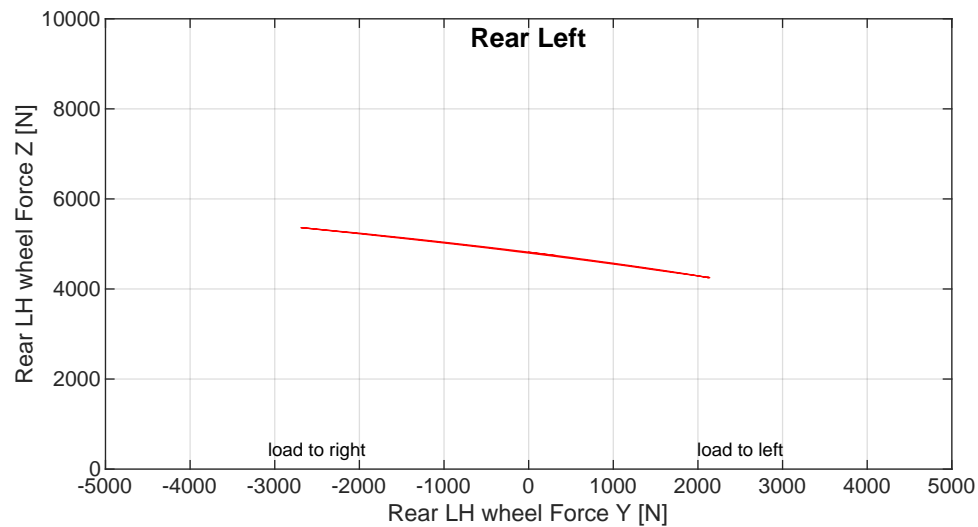
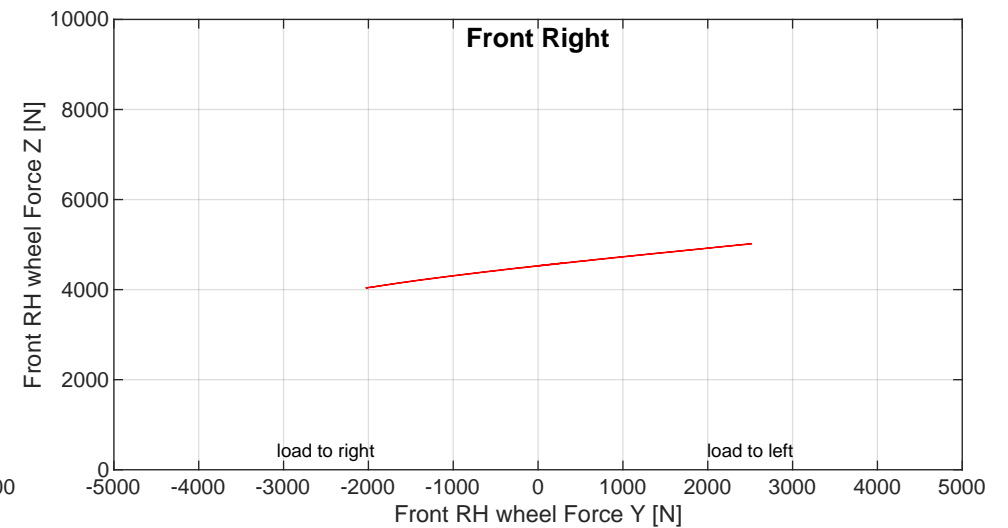
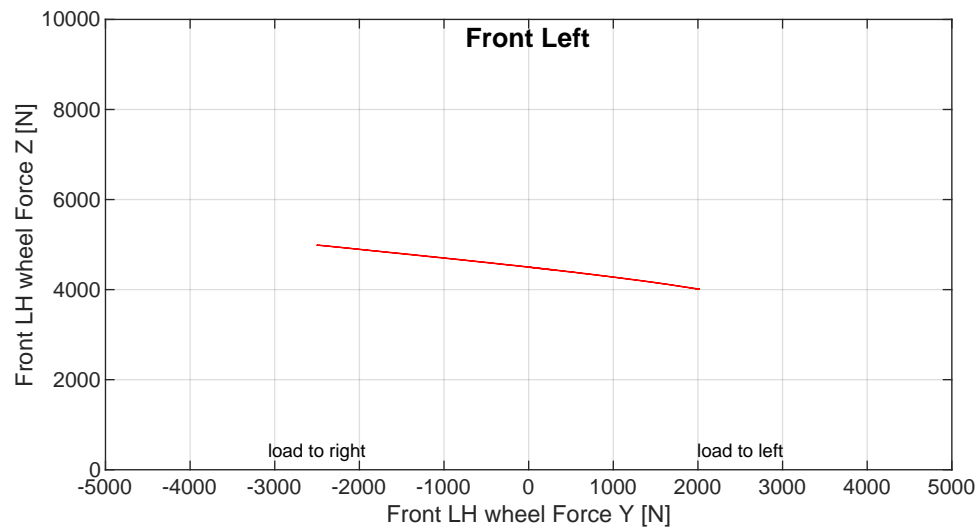
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Vertical Load v Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #5 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

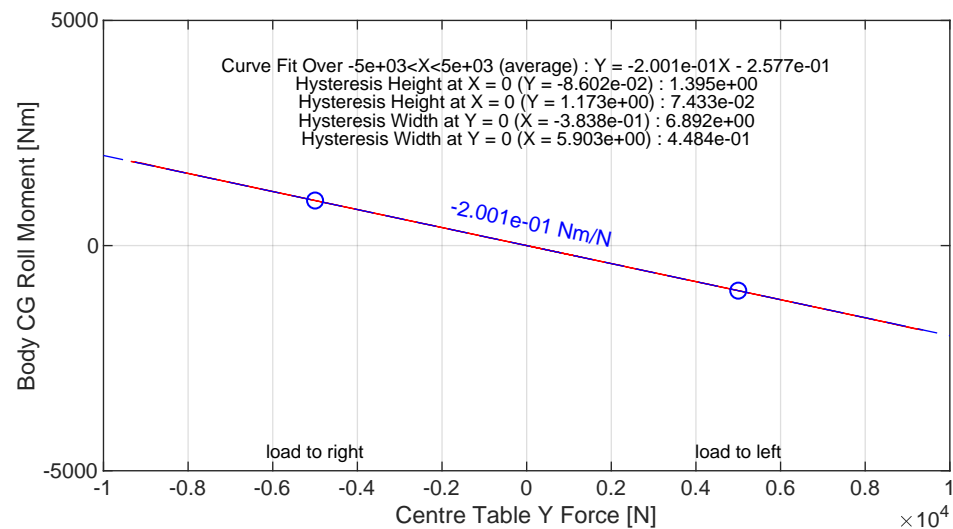
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Roll Moment vs Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #5 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes

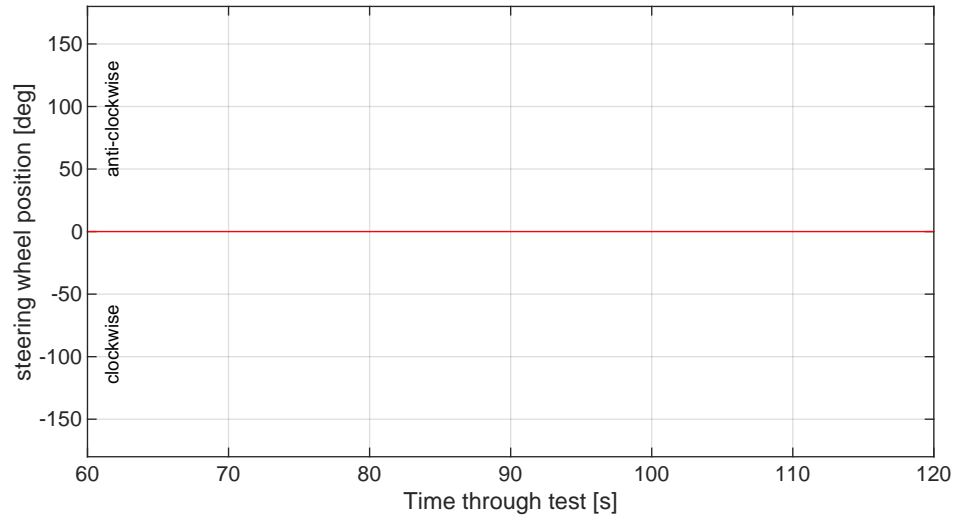


SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31

Plotted Curve Fit Coefficients

Roll Moment vs Lateral Load (V) [Nm/N]:
-2.001e-01 -2.577e-01

Calculated Parameters



Cornering

Audi Q5

Steering Wheel Angle

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #6 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

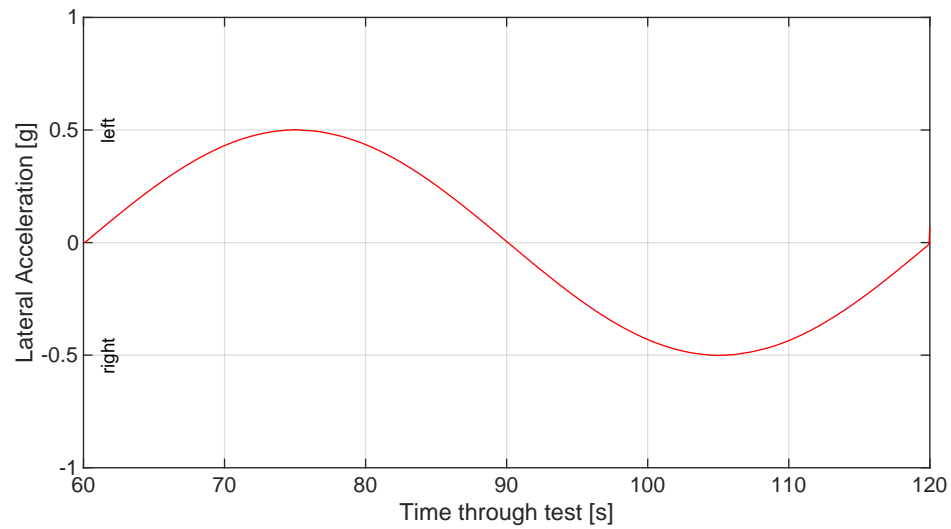
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



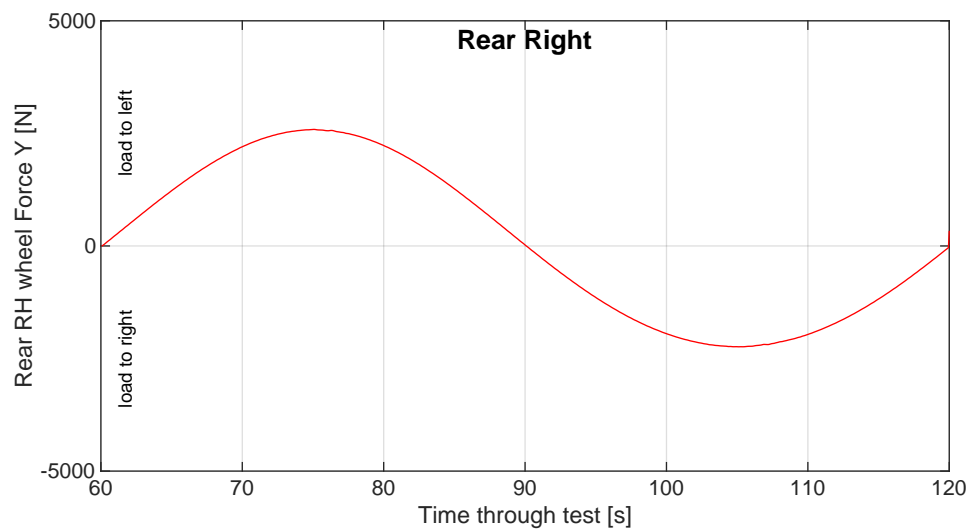
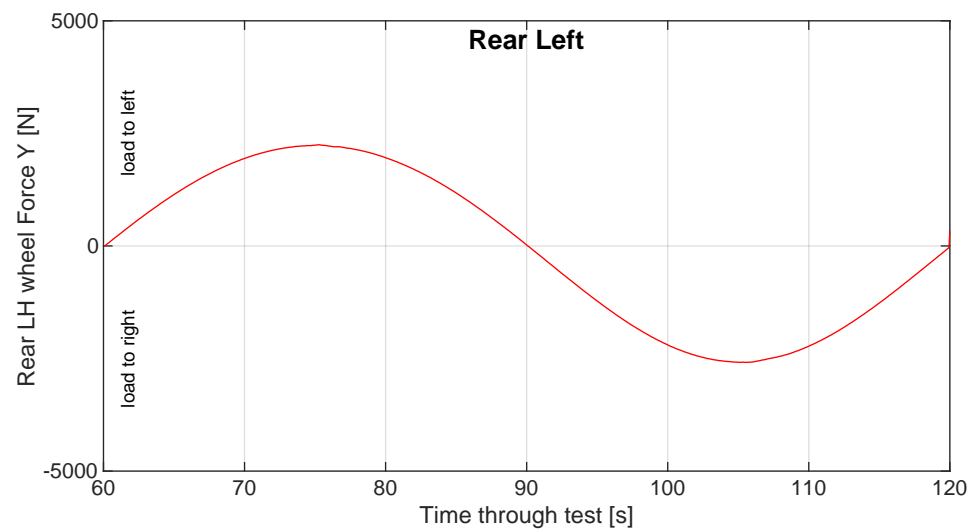
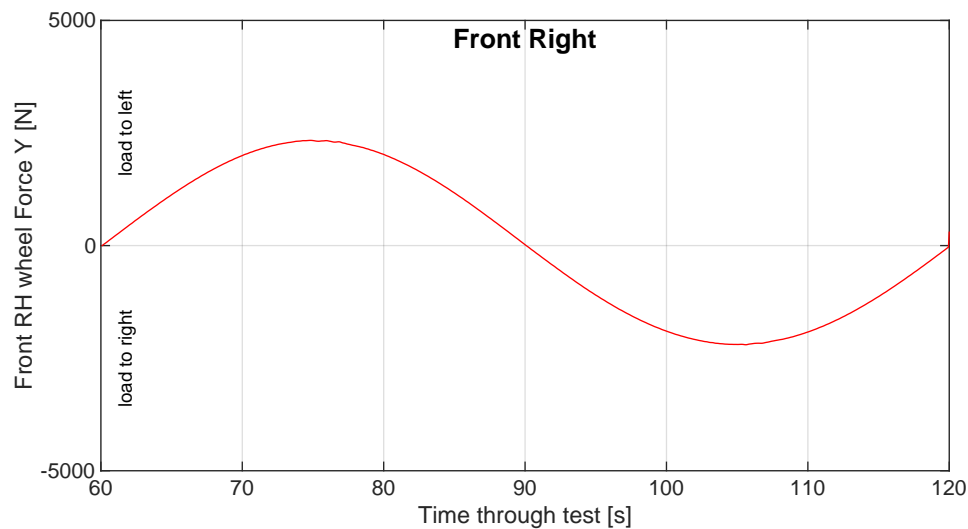
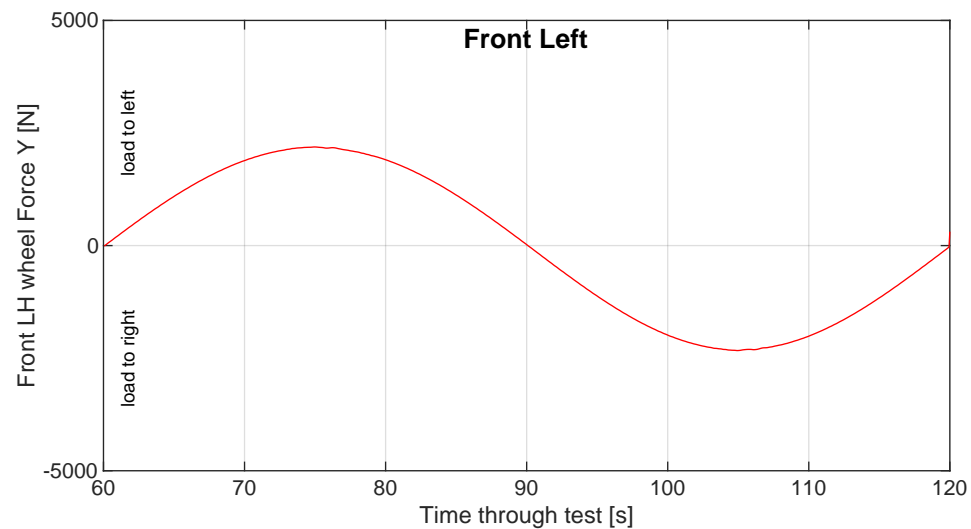
Cornering
Audi Q5
Lateral Acceleration
Co-ordinate system : ISO Ground-fixed
03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
Sequence 7 : VPS cornering
0.5g cornering test : Test #6 of 7
Test Run #1, Cycle #2
Input : Sinusoidal, Cycle Time : 60 s
Setup 3

Transmission Lock : None
Brakes On : Yes
Engine On : No
Front ARB Fitted : Yes
Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #6 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

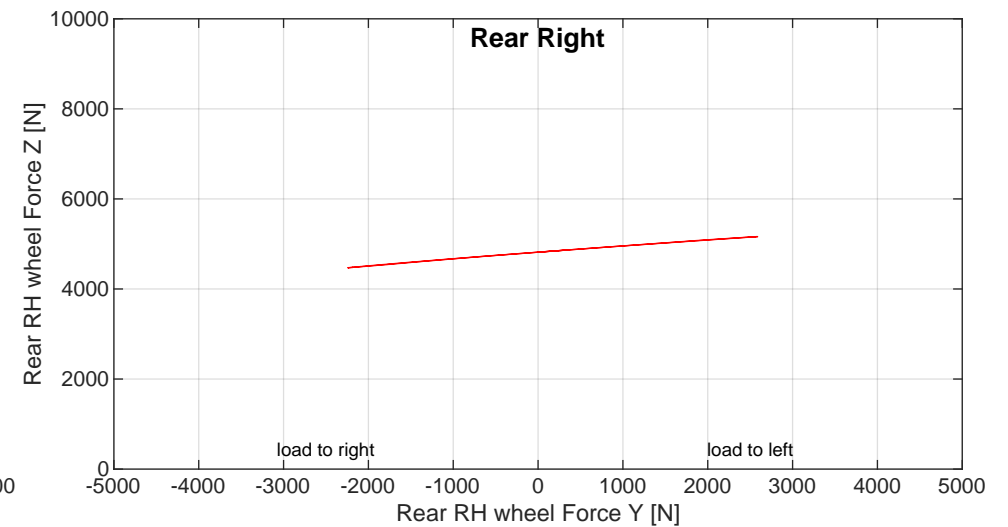
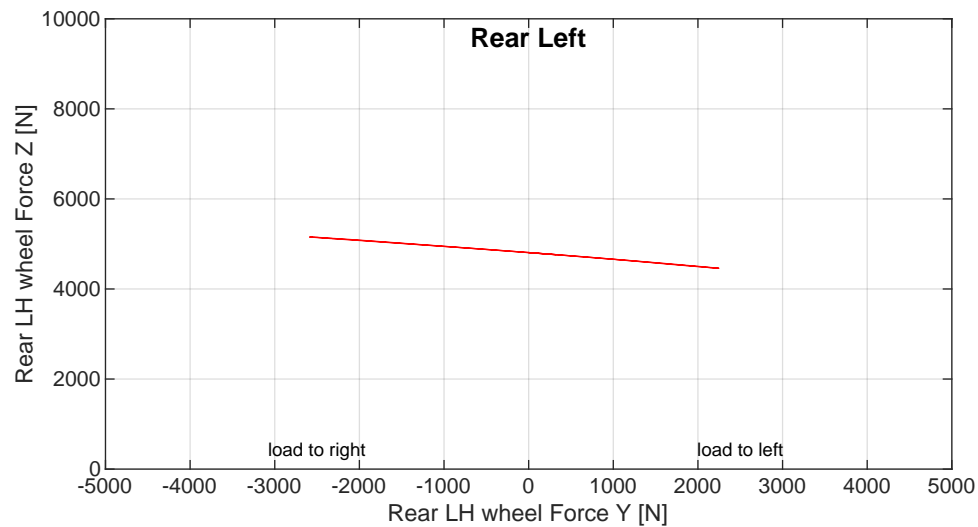
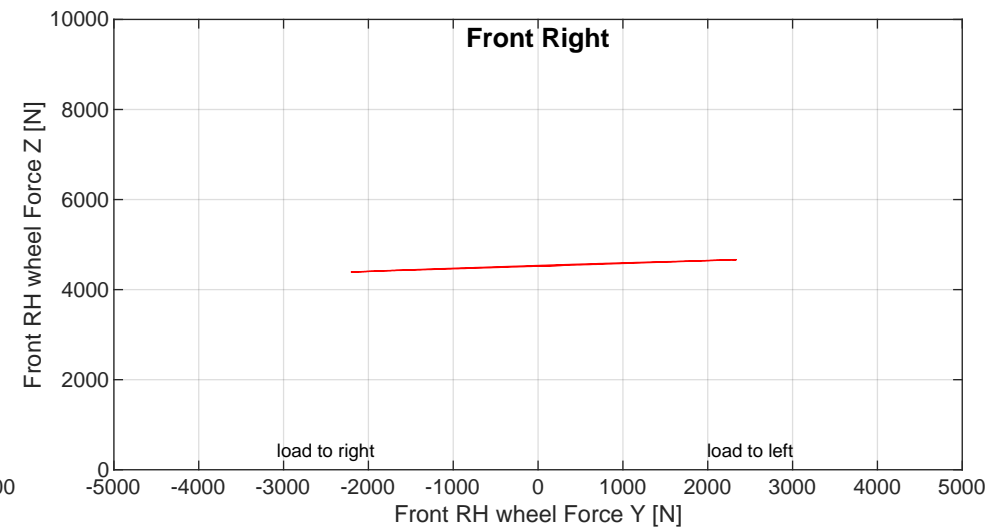
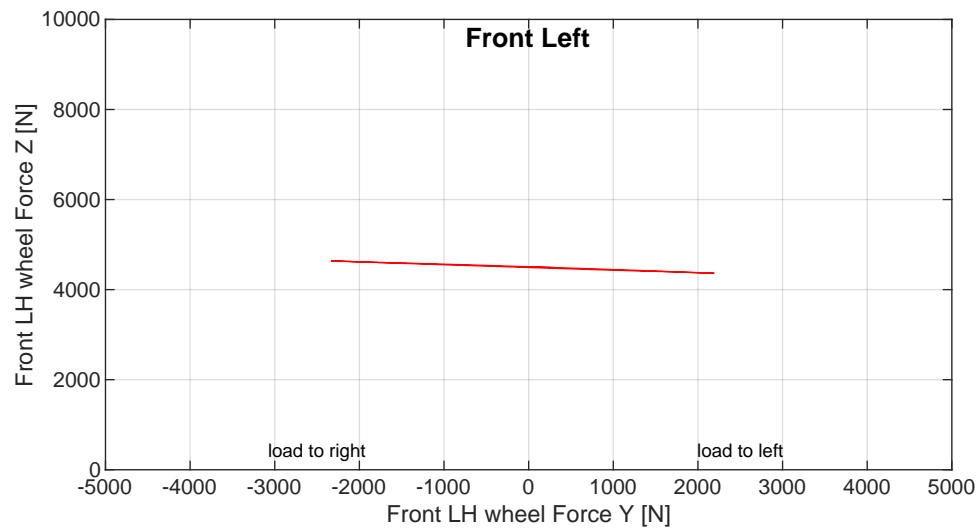
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Vertical Load v Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #6 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

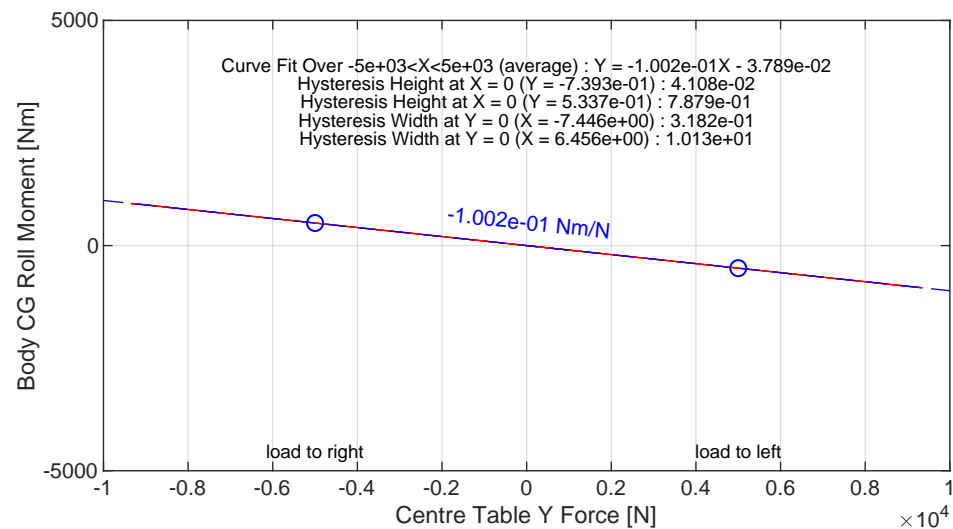
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Roll Moment vs Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #6 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



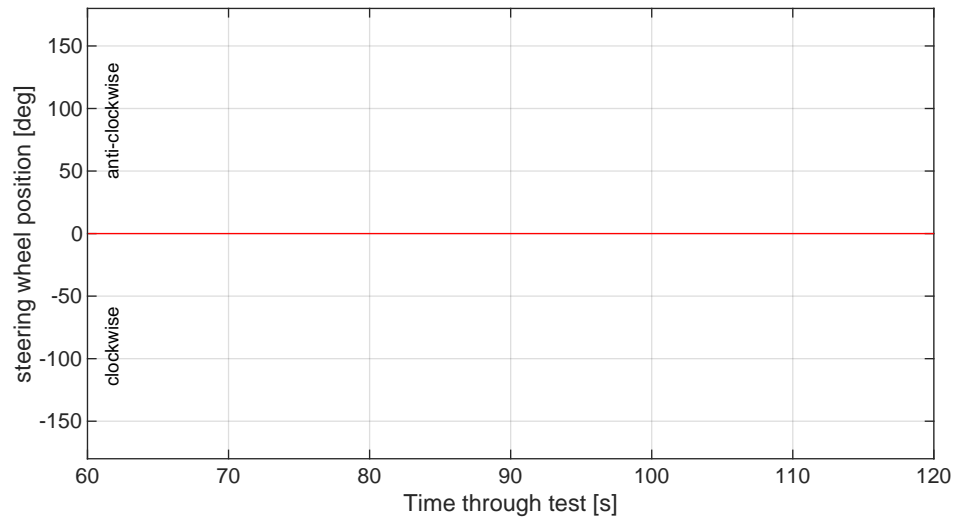
SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31

Plotted Curve Fit Coefficients

Roll Moment vs Lateral Load (V) [Nm/N]:

-1.002e-01 -3.789e-02

Calculated Parameters



Cornering

Audi Q5

Steering Wheel Angle

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #7 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

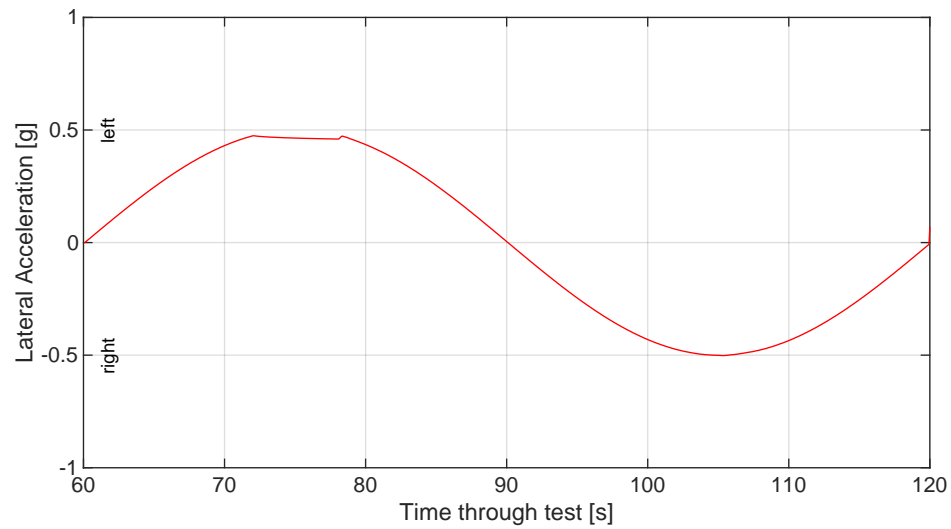
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



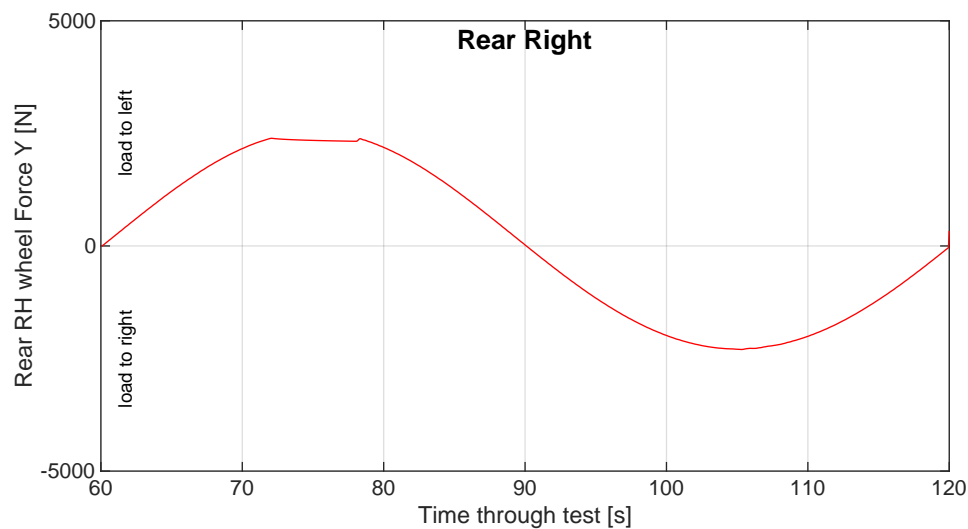
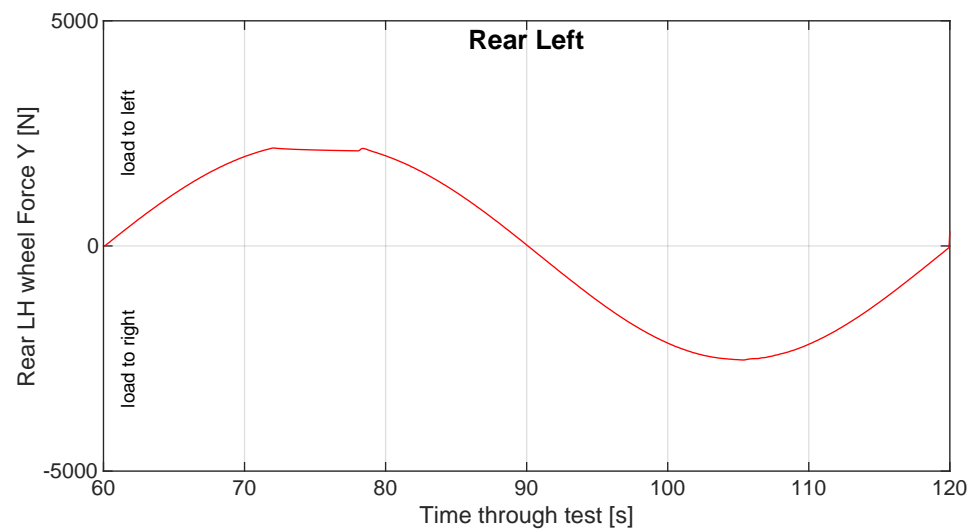
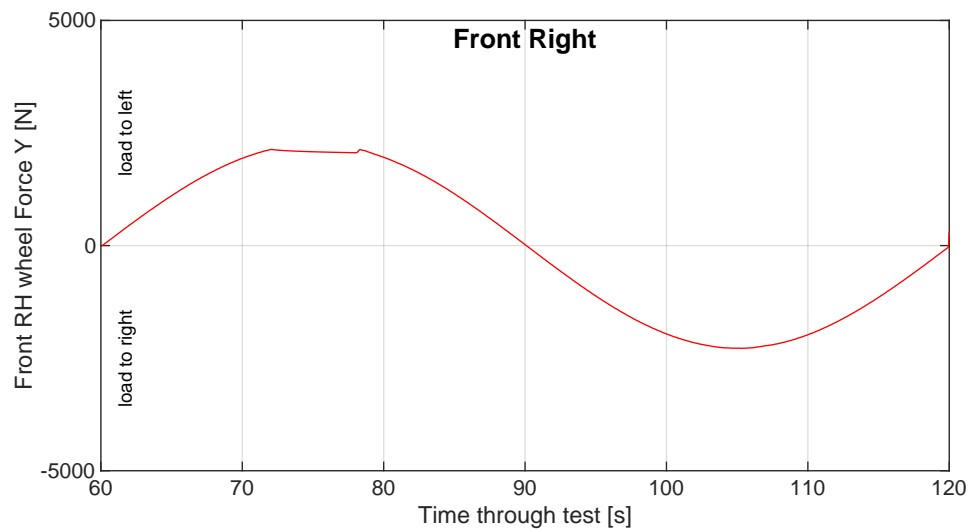
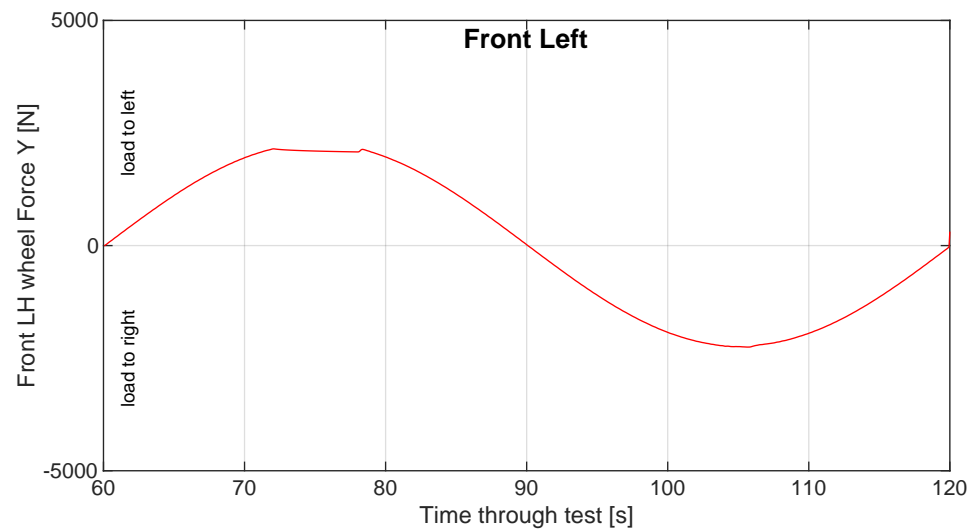
Cornering
Audi Q5
Lateral Acceleration
 Co-ordinate system : ISO Ground-fixed
 03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025
 Sequence 7 : VPS cornering
 0.5g cornering test : Test #7 of 7
 Test Run #1, Cycle #2
 Input : Sinusoidal, Cycle Time : 60 s
 Setup 3

Transmission Lock : None
 Brakes On : Yes
 Engine On : No
 Front ARB Fitted : Yes
 Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
 SPMM Serial Number 31



Cornering

Audi Q5

Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #7 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

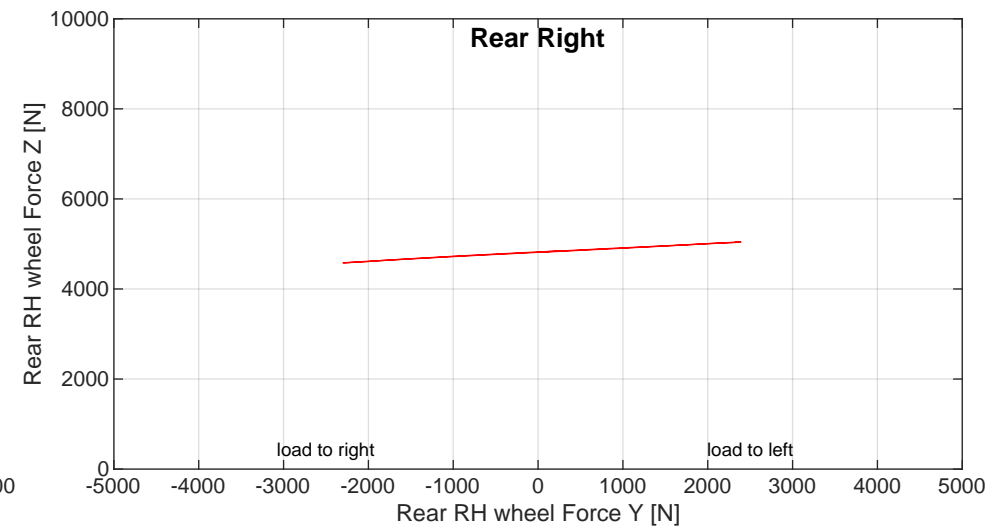
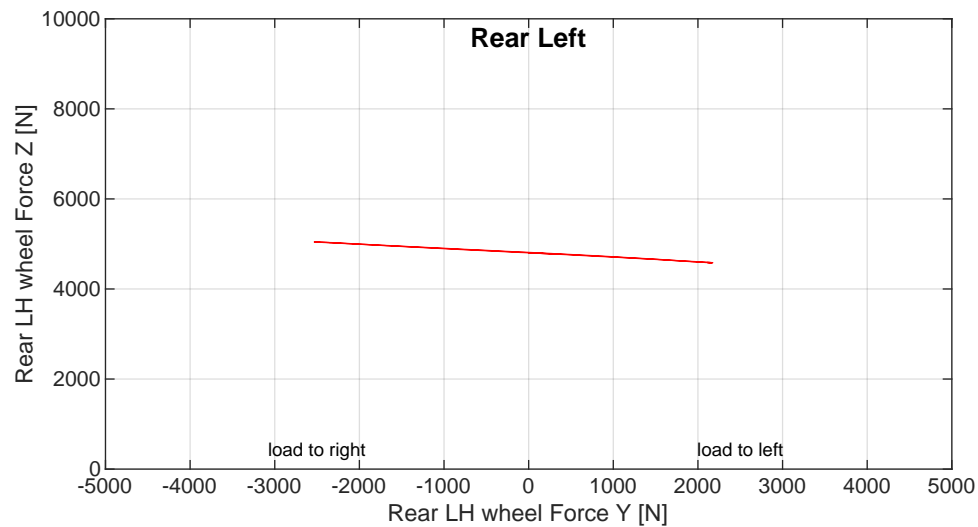
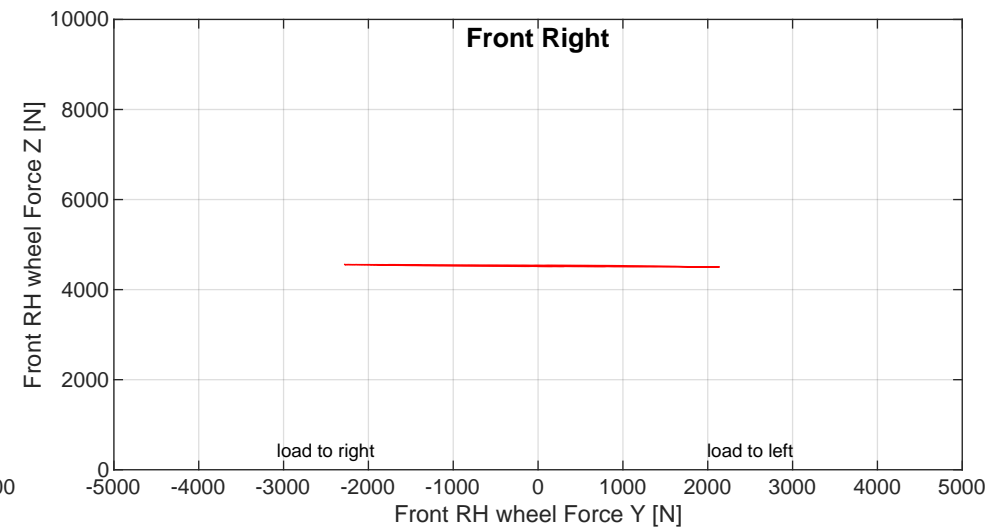
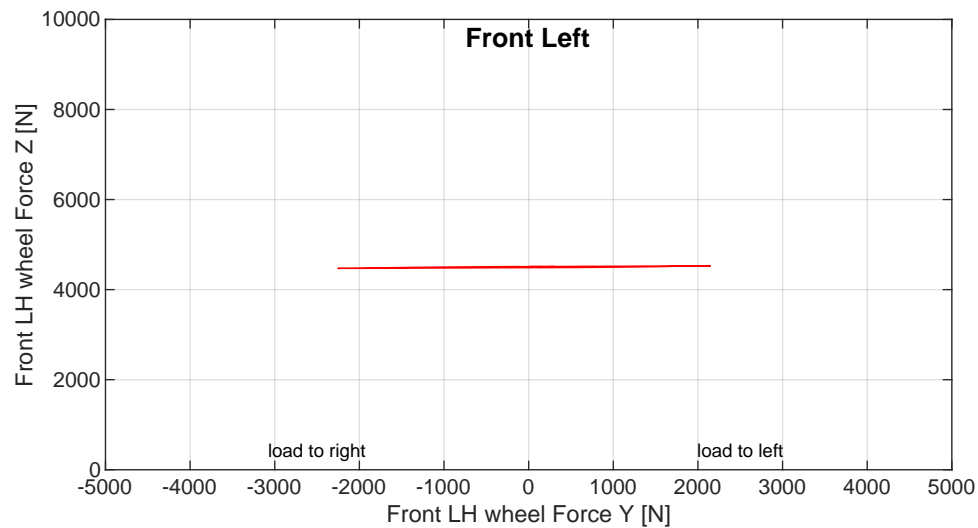
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Vertical Load v Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #7 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

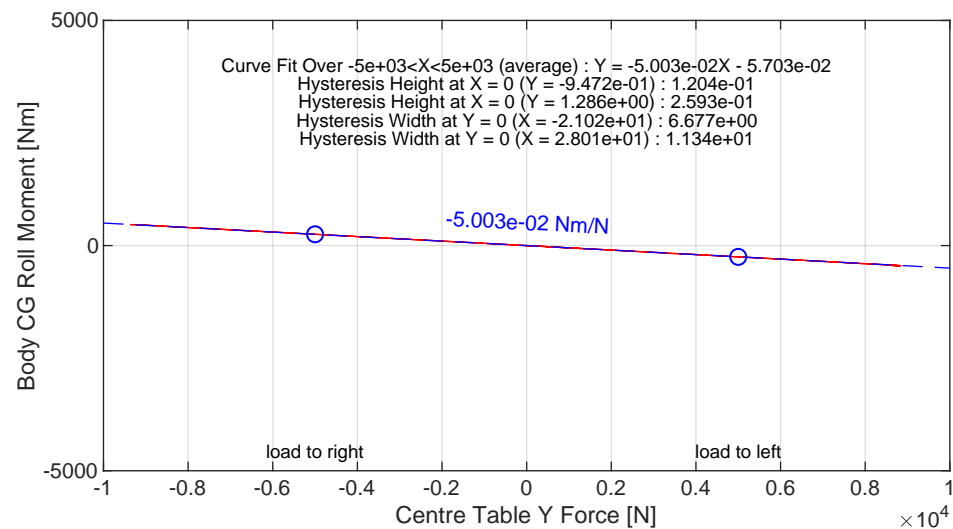
Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Roll Moment vs Lateral Load

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

0.5g cornering test : Test #7 of 7

Test Run #1, Cycle #2

Input : Sinusoidal, Cycle Time : 60 s

Setup 3

Transmission Lock : None

Brakes On : Yes

Engine On : No

Front ARB Fitted : Yes

Rear ARB Fitted : Yes

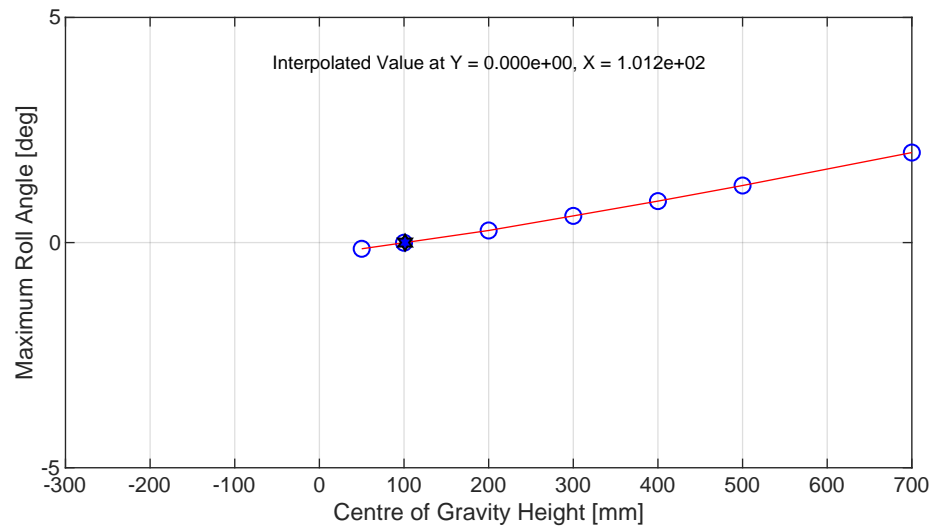


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Plotted Curve Fit Coefficients

Roll Moment vs Lateral Load (V) [Nm/N]:
-5.003e-02 -5.703e-02

Calculated Parameters



Cornering

Audi Q5

Maximum Roll Angle v Centre of Gravity Height

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

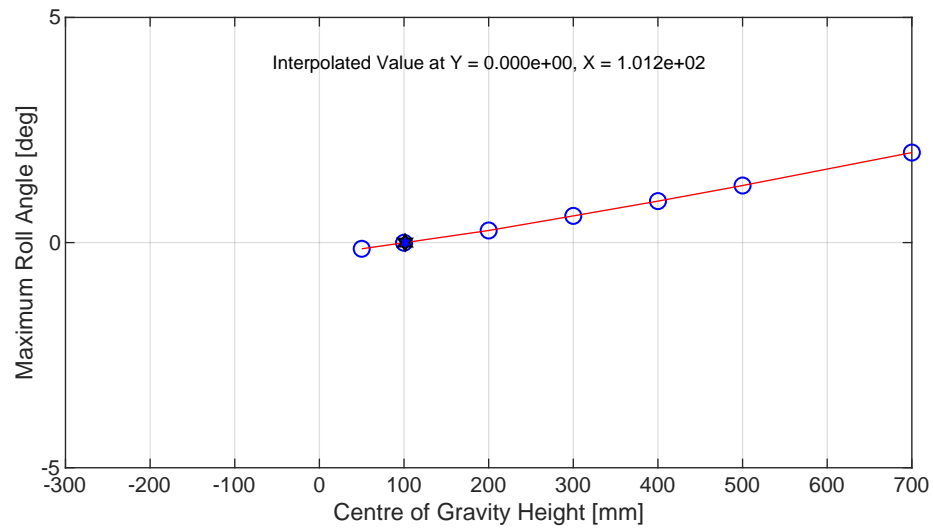
Sequence 7 : VPS cornering

Varying Parameter Sequence : 7 Tests

Setup 3



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31



Cornering

Audi Q5

Maximum Roll Angle v Centre of Gravity Height

Co-ordinate system : ISO Ground-fixed

03 July 2018

Vehicle Number : 24, Vehicle Id : KEAD2025

Sequence 7 : VPS cornering

Varying Parameter Sequence : 7 Tests

Setup 3



SPMM - Anthony Best Dynamics Limited
SPMM Serial Number 31

General MOI Data

Vehicle ID	24
Sequence ID	2
Result ID	2
Result Description	Result 2 [Compensated]
Time And Date	02/07/2018 13:58:48
Operator	Man

Relative to Ground Plane

Related Body CG Results

Mass	2051.9 kg
CG Ground X	138.0 mm
CG Ground Y	-1.8 mm
CG Ground Z	623.5 mm

Body Inertia Results

Ixx Ground	761.8 kgm ²
Iyy Ground	3659.2 kgm ²
Izz Ground	3848.5 kgm ²
Ixy Ground	27.8 kgm ²
Ixz Ground	-114.8 kgm ²
Iyz Ground	0.2 kgm ²
Ixx Principal Inertia	757.2 kgm ²
Iyy Principal Inertia	3659.7 kgm ²
Izz Principal Inertia	3852.6 kgm ²
rx Radius of Gyration	607.5 mm
ry Radius of Gyration	1335.5 mm
rz Radius of Gyration	1370.2 mm
X Principal Axis CosX Ground	0.9993
X Principal Axis CosY Ground	0.0096
X Principal Axis CosZ Ground	-0.0372
Y Principal Axis CosX Ground	-0.0093
Y Principal Axis CosY Ground	0.9999
Y Principal Axis CosZ Ground	0.0076
Z Principal Axis CosX Ground	0.0372
Z Principal Axis CosY Ground	-0.0072
Z Principal Axis CosZ Ground	0.9993

Relative to Table Surface

Related Body CG Results

Mass	2051.9 kg
CG Table X	135.4 mm
CG Table Y	-1.8 mm
CG Table Z	645.8 mm

Body Inertia Results

Ixx Table	760.9 kgm ²
Iyy Table	3659.5 kgm ²
Izz Table	3849.1 kgm ²
Ixy Table	27.7 kgm ²
Ixz Table	-103.5 kgm ²
Iyz Table	0.5 kgm ²
Ixx Principal Inertia	757.2 kgm ²
Iyy Principal Inertia	3659.7 kgm ²
Izz Principal Inertia	3852.6 kgm ²
rxr Radius of Gyration	607.5 mm
ryy Radius of Gyration	1335.5 mm
rzz Radius of Gyration	1370.2 mm
X Principal Axis CosX Table	0.9994
X Principal Axis CosY Table	0.0096
X Principal Axis CosZ Table	-0.0335
Y Principal Axis CosX Table	-0.0093
Y Principal Axis CosY Table	0.9999
Y Principal Axis CosZ Table	0.0076
Z Principal Axis CosX Table	0.0335
Z Principal Axis CosY Table	-0.0072
Z Principal Axis CosZ Table	0.9994

Predicted Results: Complete Vehicle

Related Body CG Results

Mass	2051.9 kg
CG Table X	135.0 mm
CG Table Y	-1.8 mm
CG Table Z	651.8 mm
CG Ground X	137.6 mm
CG Ground Y	-1.8 mm
CG Ground Z	629.5 mm
Static Stability Factor (SSF)	1.28

Body Inertia Results

Ixx Table	758.0 kgm ²
Iyy Table	3655.0 kgm ²
Izz Table	3857.1 kgm ²
Ixy Table	27.7 kgm ²
Ixz Table	-102.7 kgm ²
Iyz Table	0.7 kgm ²
Ixx Ground	758.8 kgm ²
Iyy Ground	3655.0 kgm ²
Izz Ground	3856.3 kgm ²
Ixy Ground	27.7 kgm ²
Ixz Ground	-114.2 kgm ²
Iyz Ground	0.6 kgm ²
rx Radius of Gyration	606.3 mm
ry Radius of Gyration	1334.7 mm
rzz Radius of Gyration	1371.6 mm
Dynamic Index	0.9562

Predicted Results: Sprung Mass

Related Body CG Results

Mass	1891.9 kg
CG Table X	146.6 mm
CG Table Y	-2.0 mm
CG Table Z	675.3 mm
CG Ground X	149.3 mm
CG Ground Y	-2.0 mm
CG Ground Z	652.9 mm

Body Inertia Results

Ixx Table	640.5 kgm ²
Iyy Table	3320.5 kgm ²
Izz Table	3431.8 kgm ²
Ixy Table	27.7 kgm ²
Ixz Table	-109.7 kgm ²
Iyz Table	0.8 kgm ²
Ixx Ground	641.3 kgm ²
Iyy Ground	3320.5 kgm ²
Izz Ground	3430.9 kgm ²
Ixy Ground	27.7 kgm ²
Ixz Ground	-120.1 kgm ²
Iyz Ground	0.7 kgm ²
rx Radius of Gyration	579.7 mm
ry Radius of Gyration	1324.9 mm
rzz Radius of Gyration	1347.7 mm
Dynamic Index	0.9246

Droop Correction Data

Rebound Strokes

FLH Rebound Stroke	87.9 mm
FRH Rebound Stroke	85.5 mm
RLH Rebound Stroke	68.2 mm
RRH Rebound Stroke	66.0 mm

Unsprung Mass

FLH Mass	40.0 kg
FLH CG Offset X	0.0 mm
FLH CG Offset Y	0.0 mm
FLH CG Offset Z	0.0 mm
FRH Mass	40.0 kg
FRH CG Offset X	0.0 mm
FRH CG Offset Y	0.0 mm
FRH CG Offset Z	0.0 mm
RLH Mass	40.0 kg
RLH CG Offset X	0.0 mm
RLH CG Offset Y	0.0 mm
RLH CG Offset Z	0.0 mm
RRH Mass	40.0 kg
RRH CG Offset X	0.0 mm
RRH CG Offset Y	0.0 mm
RRH CG Offset Z	0.0 mm

Unsprung Inertia

FLH Ixx	0.0 kgm ²
FLH Iyy	0.0 kgm ²
FLH Izz	0.0 kgm ²
FLH Ixy	0.0 kgm ²
FLH Ixz	0.0 kgm ²
FLH Iyz	0.0 kgm ²

FRH Ixx	0.0 kgm ²
FRH Iyy	0.0 kgm ²
FRH Izz	0.0 kgm ²
FRH Ixy	0.0 kgm ²
FRH Ixz	0.0 kgm ²
FRH Iyz	0.0 kgm ²

RLH Ixx	0.0 kgm ²
RLH Iyy	0.0 kgm ²
RLH Izz	0.0 kgm ²
RLH Ixy	0.0 kgm ²
RLH Ixz	0.0 kgm ²
RLH Iyz	0.0 kgm ²

RRH Ixx	0.0 kgm ²
RRH Iyy	0.0 kgm ²
RRH Izz	0.0 kgm ²
RRH Ixy	0.0 kgm ²
RRH Ixz	0.0 kgm ²
RRH Iyz	0.0 kgm ²