



Brake Dynamometer Test Report

Customer Test Report #

Link Test Report #: D1107 FRONT SAE J2521

Test Description: D1107 FRONT SAE J2521

Customer Reference: 1

Program # SAE 2521 Ver 2013

Platform: PQ35 FA (FN3 54)

Lining Material: P49-4

Test Date: 09/01/23-09/03/23

Requested By:

Zhongshan Safety Auto Parts Co.,Ltd.
Li dongwei

Tested By:

Testing Coordination and Facility
Link Transportation Testing Technology (Shanghai) Co., Ltd
Building No.2, 778 Zhao Xian Road, Jiading District, Shanghai
Shanghai, 201821
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Phone: (021) 5916-5656
Fax: (021) 5916-5959



Test Information

Customer Name	
Requestor	
Test Procedure	SAE J2521
Program Number	SAE 2521 Ver 2013
Test Coordinator	
Technician	
Dynamometer	
Parts received, start and end dates	N/A, 09/01/23 - 09/03/23
Datalog, Template version	3.11 , 1.87

Setup Details

Fixture Identification	Standard
Fixture Design	Standard
Drive adapter method	Standard

Dynamometer Information

Rolling Radius	335.0 mm
Gross Axle Weight	N/A kg
Required Wheel Load	N/A kg
Actual Wheel Load	494.55 kg
Required Inertia	95kg·m ²
Actual Inertia	95kg·m ²

Brake Information

Brake Platform	PQ35 FA(FN3 54)
Brake Type	Disc
Brake Size	N/A
Brake ID Number	
Drum/Rotor Type	standard
Drum/Rotor Finish	New
Pri/Lead/Inner Lining	P49-4
Sec/Trail/Outer Lining	P49-4
Orientation	Left
Effective Radius	127.5 mm
Number of Pistons/Cyls	1
Coefficient Multiplier	
Piston Diameter	54 mm

Comments:

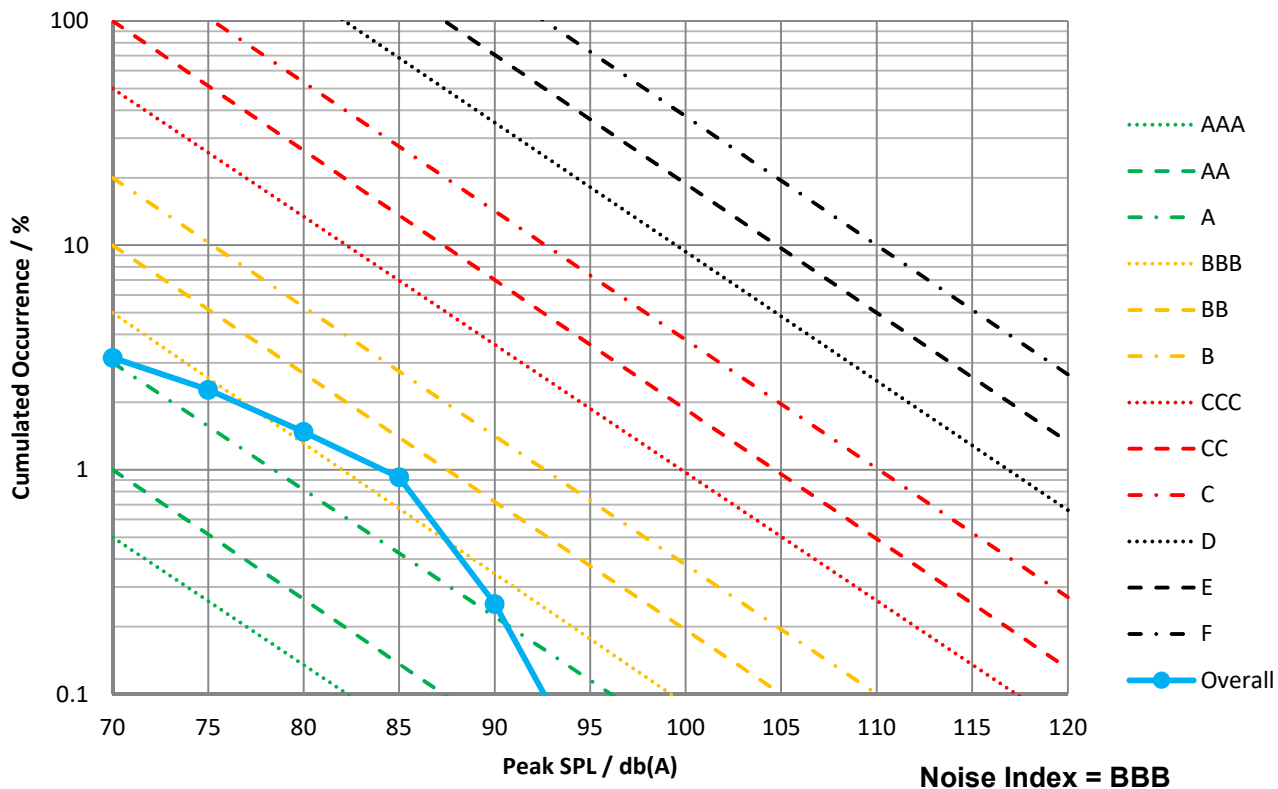
Processed by:	Title	Date	09/03/2023
(313) 933-4900			
Reviewed by:	Title	Date	09/03/2023
(313) 933-4900			

Data applicable to the materials tested. Report can be copied in full.
Bilateral uncertainty of measurements 0.63% of FS. Coverage factor of 2. Confidence of 95%. Details available upon request.

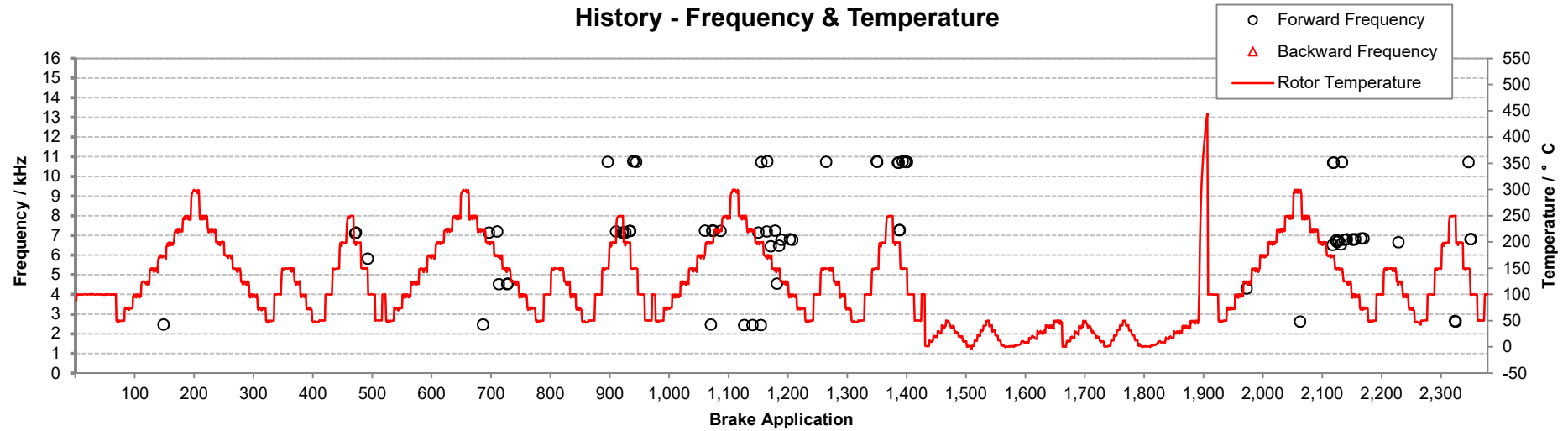
Main Peaks Only

Frequency Range	Threshold	Number of noisy stops				Percentage of noisy stops			
		Overall	Drag	Decel	Back/ Fwd	Overall	Drag	Decel	Back/ Fwd
1.25 kHz to 16 kHz	≥70db(A)	75	44	30	1	3.2%	3.3%	4.6%	0.3%
	≥80db(A)	35	19	16	0	1.5%	1.4%	2.5%	0.0%
1.25 kHz to 4 kHz	≥70db(A)	9	7	2	0	0.4%	0.5%	0.3%	0.0%
	≥80db(A)	3	3	0	0	0.1%	0.2%	0.0%	0.0%
4 kHz to 6 kHz	≥70db(A)	6	5	1	0	0.3%	0.4%	0.2%	0.0%
	≥80db(A)	1	1	0	0	0.0%	0.1%	0.0%	0.0%
6 kHz to 10 kHz	≥70db(A)	40	27	12	1	1.7%	2.0%	1.8%	0.3%
	≥80db(A)	21	14	7	0	0.9%	1.1%	1.1%	0.0%
10 kHz to 14 kHz	≥70db(A)	20	5	15	0	0.8%	0.4%	2.3%	0.0%
	≥80db(A)	10	1	9	0	0.4%	0.1%	1.4%	0.0%
14 kHz to 16 kHz	≥70db(A)	0	0	0	0	0.0%	0.0%	0.0%	0.0%
	≥80db(A)	0	0	0	0	0.0%	0.0%	0.0%	0.0%
Total number of brake applications:						2378	1329	653	396

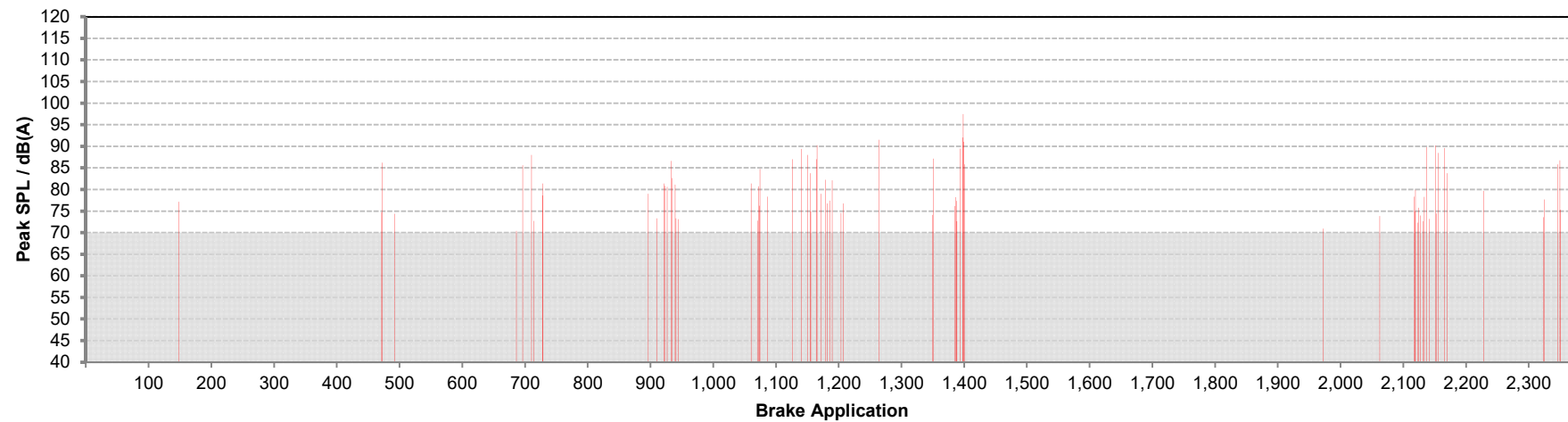
Acceptance

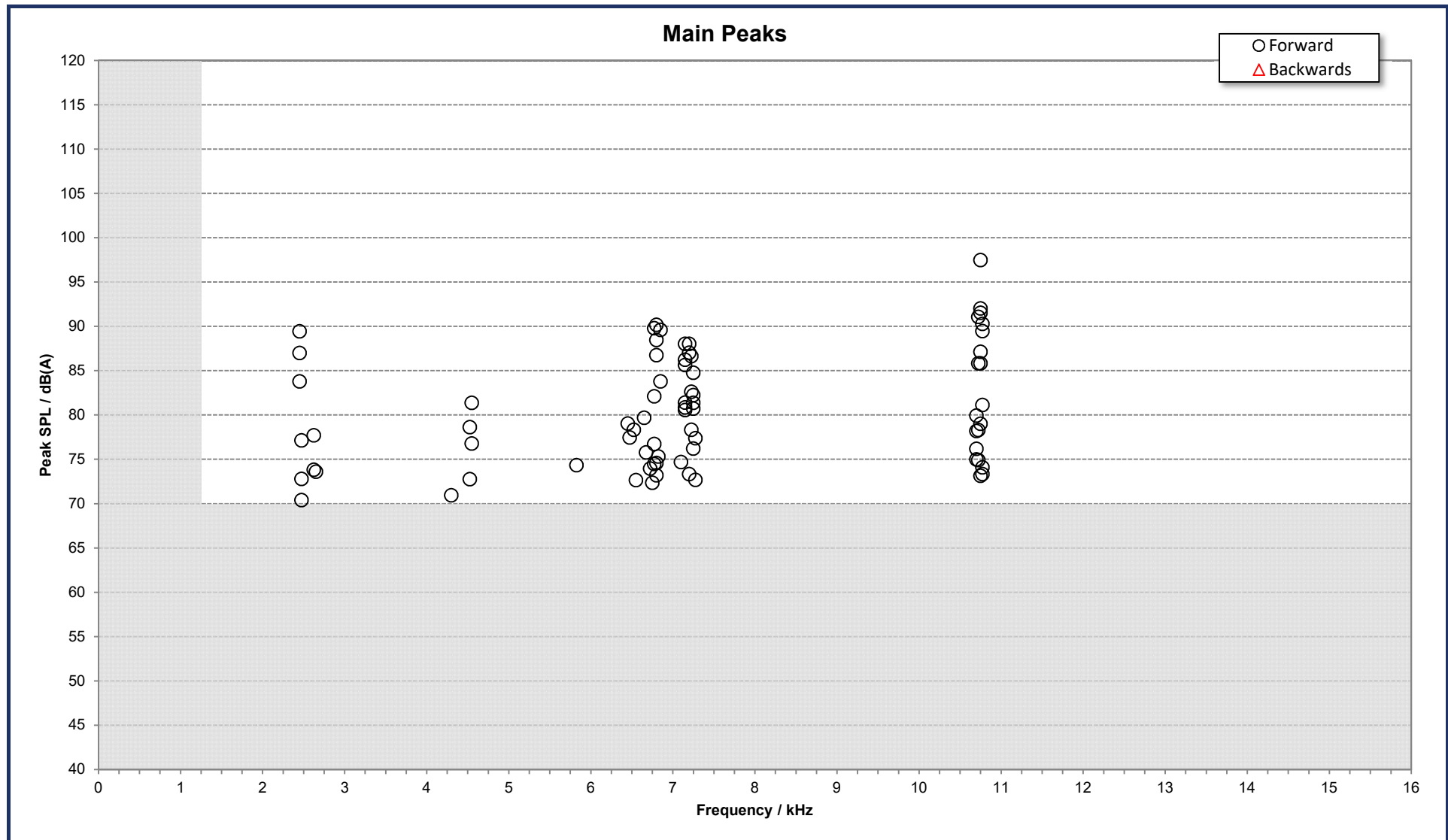


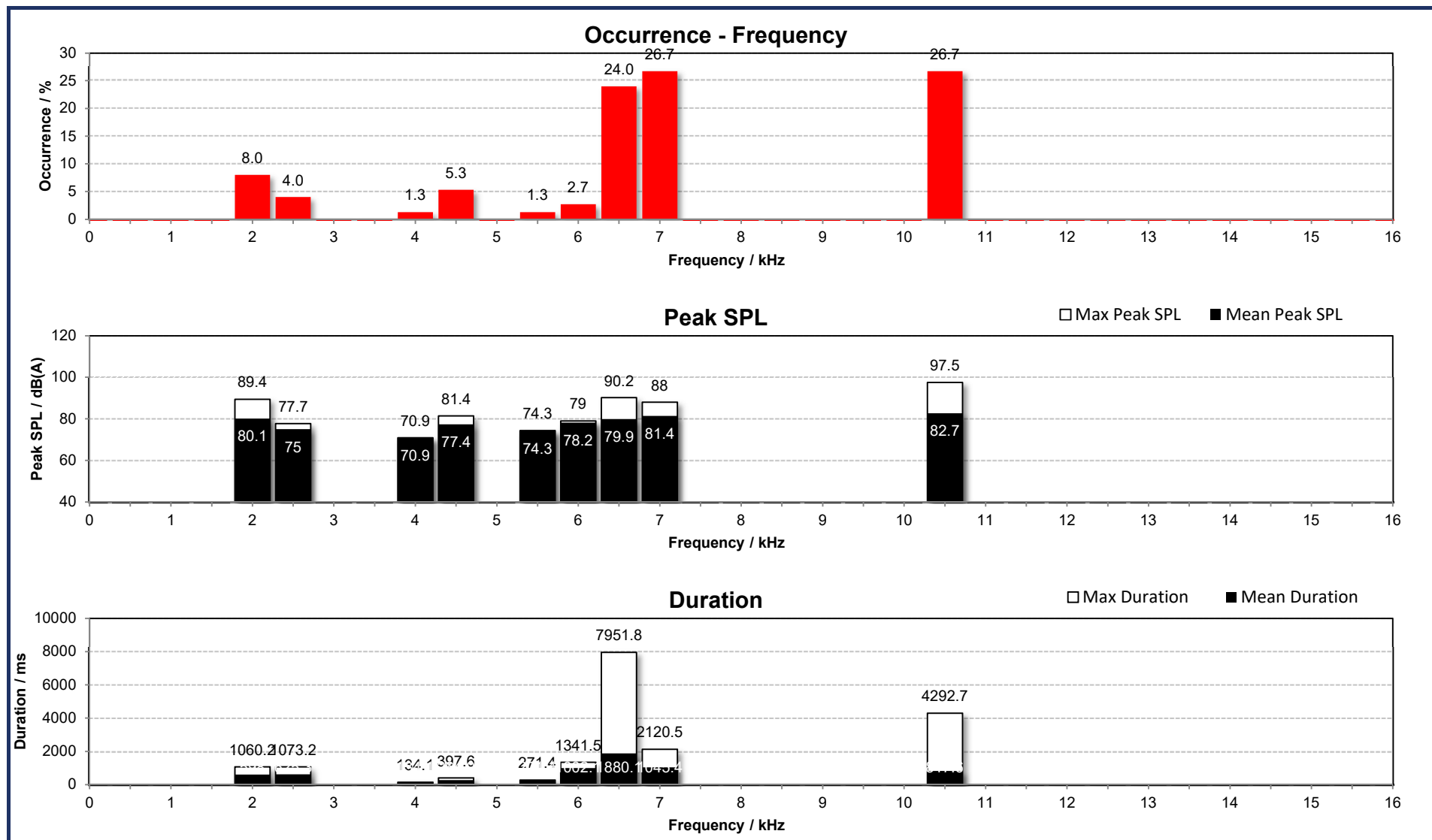
History - Frequency & Temperature



History - Peak SPL

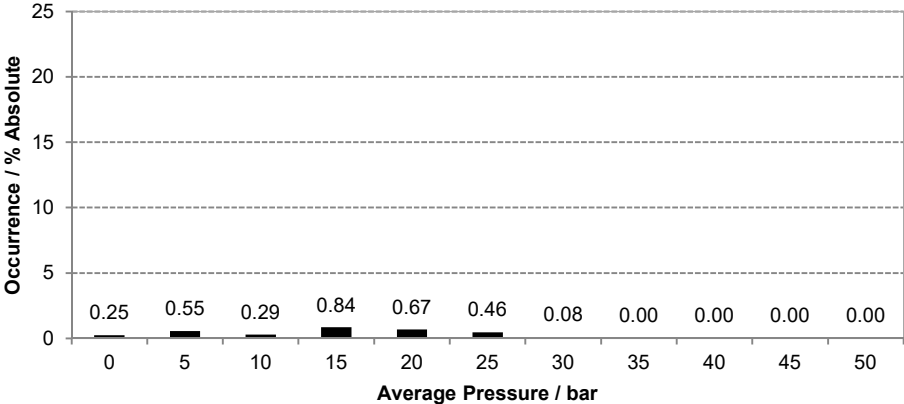




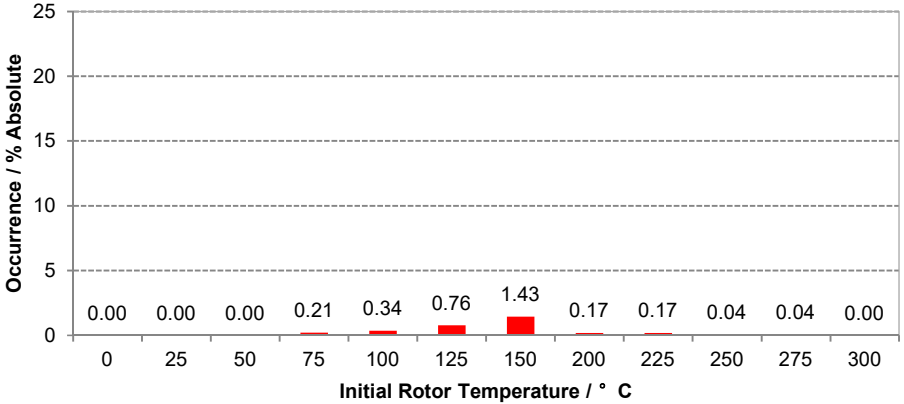




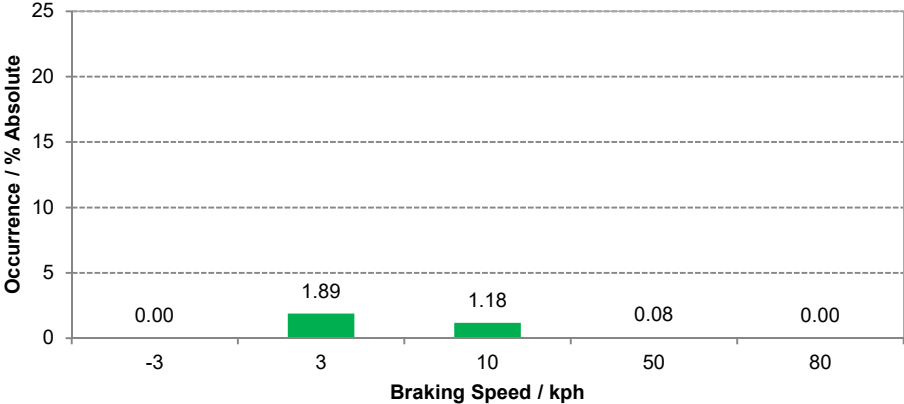
Absolute % of Noisy Stops vs Average Pressure



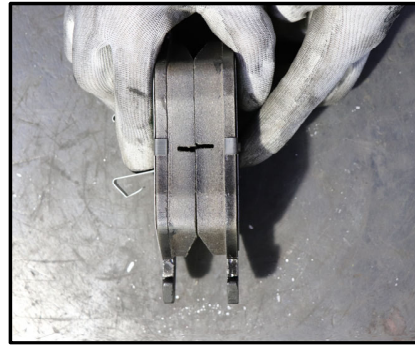
Absolute % of Noisy Stops vs Initial Rotor Temp



Absolute % of Noisy Stops vs Braking Speed



Before Test



After Test

