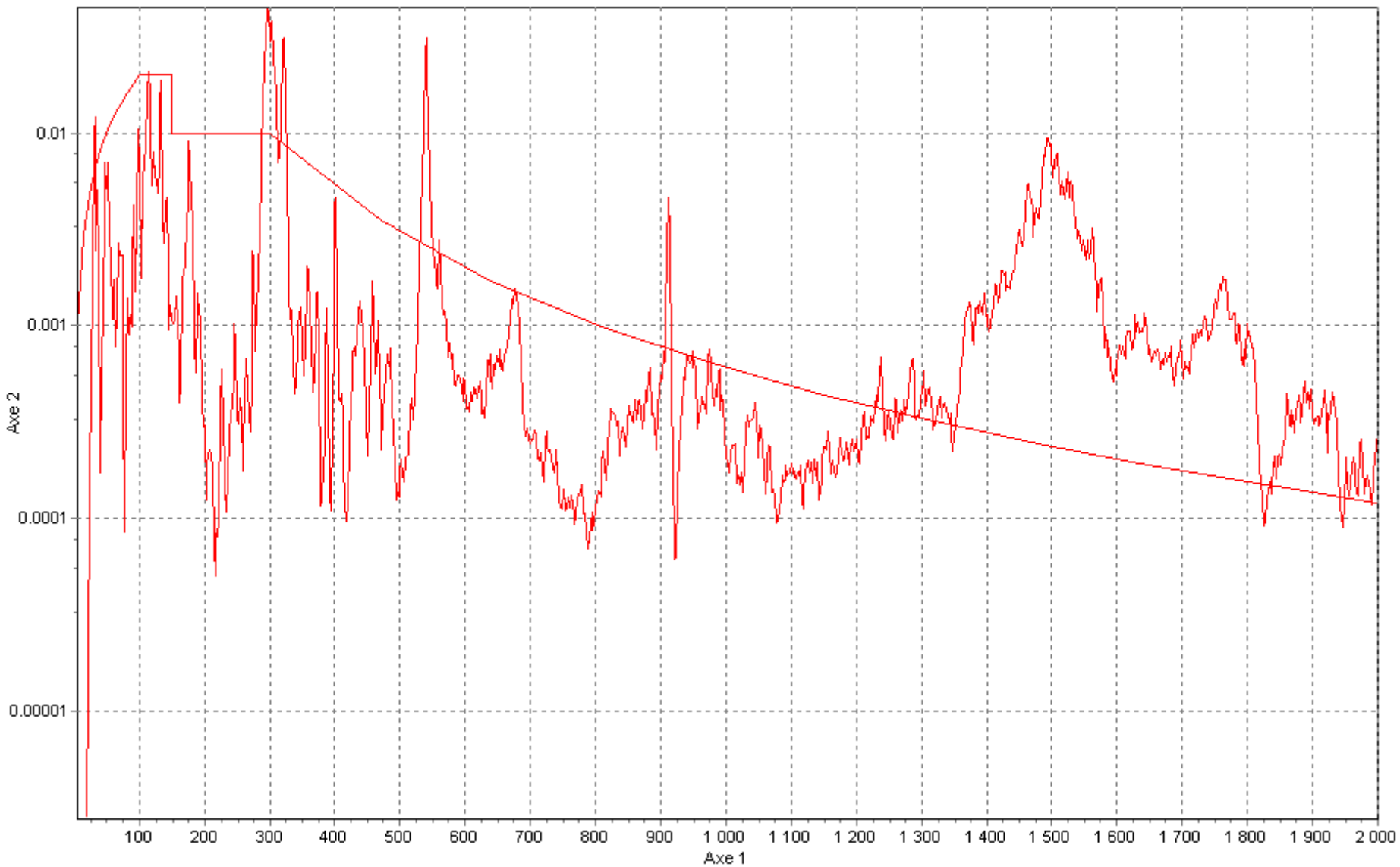
 ALCATEL ALENIA SPACE An Alcatel/Finmeccanica company	HERSCHEL – PLANCK		NUMBER :		REV : 1																																																												
			H-P-100000-ASP-RD-0018		Date : 07/06/2006																																																												
	REQUEST FOR <input type="checkbox"/> DEVIATION <input type="checkbox"/> WAIVER		SUB/CO NUMBER :		REV :																																																												
			Date :																																																														
SUB-SYSTEM :	PRODUCT NAME :	MODEL :	SERIAL NUMBER :	ISSUING BY :																																																													
PARAMETER AFFECTED :	<input type="checkbox"/> PERFORMANCE <input checked="" type="checkbox"/> INTERFACE <input type="checkbox"/> RELIABILITY / SAFETY		<input type="checkbox"/> OPERATIONS / TRAINING <input type="checkbox"/> MAINTENANCE <input type="checkbox"/> WEIGHT		<input type="checkbox"/> VALIDATION <input type="checkbox"/> OTHERS :																																																												
REF IMPACTED DOCUMENT	ISSUE	§	REF IMPACTED REQUIREMENT																																																														
SCI-PT-IIDA-04624	4/0		IIDA-DV-REQ-0235																																																														
TITLE : Random levels at FPU I/F																																																																	
DESCRIPTION / JUSTIFICATION : During STM acoustic tests, measured levels at FPU I/F are higher than the qualification levels as specified in IIDA: # Reference <u>IIDA-DV-REQ-0235</u> The Random vibration test Qualification levels to be applied to instrument units are specified in the tables 9.5.3.5 to 9.5.3.7 below. Duration: 2 min. per axis.																																																																	
<table border="1"> <thead> <tr> <th colspan="3">Herschel Random vibration test Qualification levels</th> <th>F1</th> <th>F2</th> <th>Slope / Level</th> <th>Unit</th> <th>g RMS</th> </tr> <tr> <th colspan="3"></th> <th>(Hz)</th> <th>(Hz)</th> <th></th> <th></th> <th>(calc)</th> </tr> </thead> <tbody> <tr> <td rowspan="8">HPLM</td> <td rowspan="4">FPU</td> <td rowspan="4">Normal to fixation plane</td> <td>20</td> <td>100</td> <td>3</td> <td>dB/Oct</td> <td>3.47</td> </tr> <tr> <td>100</td> <td>150</td> <td>0.05</td> <td>g2/Hz</td> <td></td> </tr> <tr> <td>150</td> <td>300</td> <td>0.02</td> <td>g2/Hz</td> <td></td> </tr> <tr> <td>300</td> <td>2000</td> <td>-7</td> <td>dB/Oct</td> <td></td> </tr> <tr> <td rowspan="4">Other axes</td> <td>20</td> <td>100</td> <td>3</td> <td>dB/Oct</td> <td>2.54</td> </tr> <tr> <td>100</td> <td>150</td> <td>0.02</td> <td>g2/Hz</td> <td></td> </tr> <tr> <td>150</td> <td>300</td> <td>0.0125</td> <td>g2/Hz</td> <td></td> </tr> <tr> <td>300</td> <td>2000</td> <td>-7</td> <td>dB/Oct</td> <td></td> </tr> </tbody> </table>						Herschel Random vibration test Qualification levels			F1	F2	Slope / Level	Unit	g RMS				(Hz)	(Hz)			(calc)	HPLM	FPU	Normal to fixation plane	20	100	3	dB/Oct	3.47	100	150	0.05	g2/Hz		150	300	0.02	g2/Hz		300	2000	-7	dB/Oct		Other axes	20	100	3	dB/Oct	2.54	100	150	0.02	g2/Hz		150	300	0.0125	g2/Hz		300	2000	-7	dB/Oct	
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In annex are provided the measured levels at FPU I/F during the STM test.																																																																	
PROPOSED DISPOSITION / CORRECTIVE ACTION :																																																																	
Dispositions at ESA/ Instrument levels are needed to define if those levels are acceptable for the instruments.																																																																	
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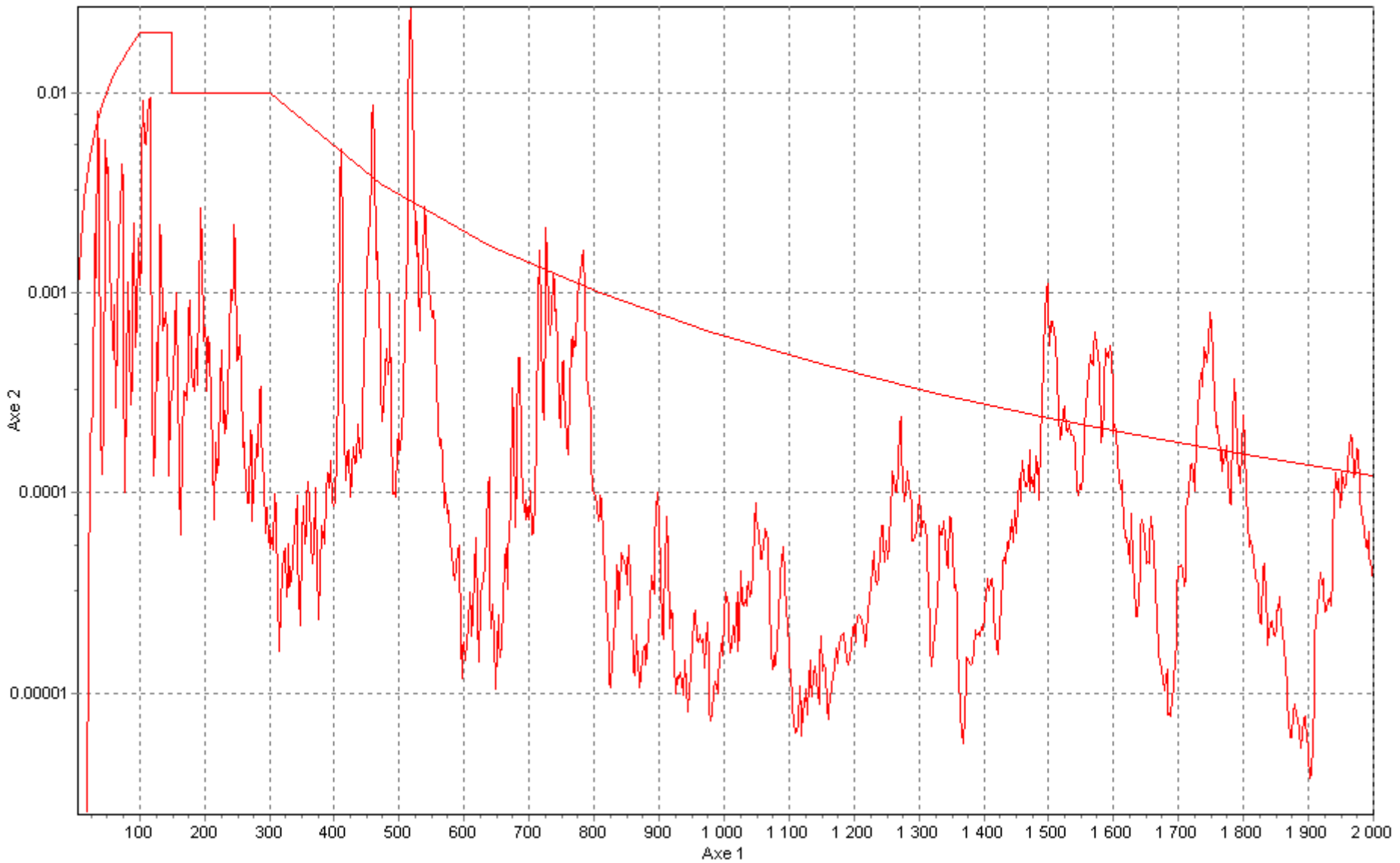
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PACRYO206Y 2)Acceleration OBA



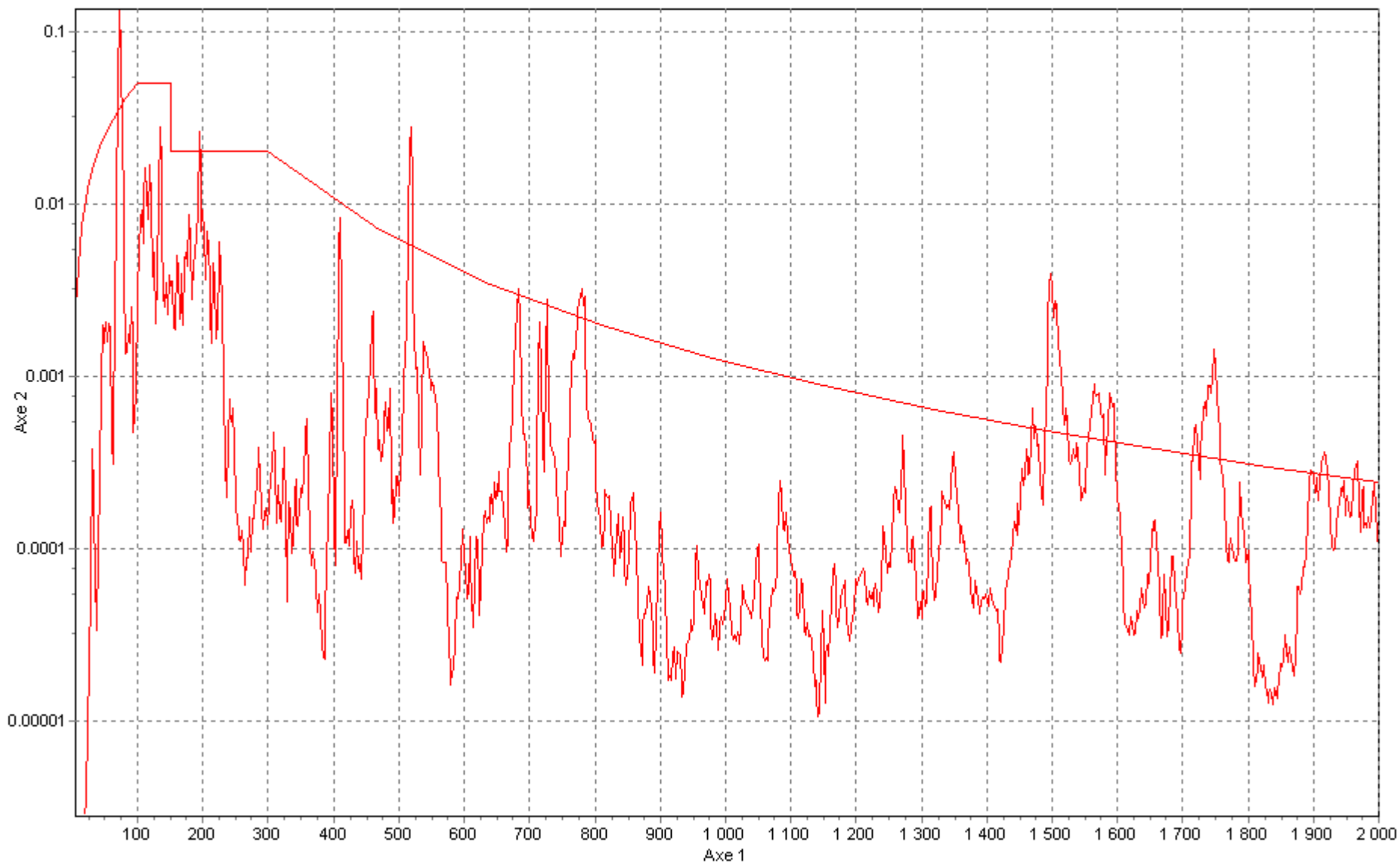
- PSD RANDOM

PACRYO202Y 2)Acceleration OBA



- PSD RANDOM

PACRYO201X 2)Acceleration OBA



- PSD RANDOM

PACRYO205Z 2)Acceleration OBA

