



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0711

HCAI Special Seismic Certification Preapproval (OSP)

Type: [ ] New [X] Renewal

Manufacturer Information

Manufacturer: SIEMENS MEDICAL SOLUTIONS USA, INC

Manufacturer's Technical Representative: Michael Zochowski

Mailing Address: 2501 N Barrington Rd, Hoffman Estates, IL 60192

Telephone: (847) 304-7700

Email: michael.zochowski@siemens-healthineers.com

Product Information

Product Name: CT Systems

Product Type: NA

Product Model Number: Symbia Pro.specta SPECT/CT System

General Description: Multiple component system for the provision of SPECT & Computed Tomography (CT) medical diagnostic imaging. Special Seismic Certification is limited to functions related to CT imaging only.

Mounting Description: See Certified Product Tables

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Company Name: EASE

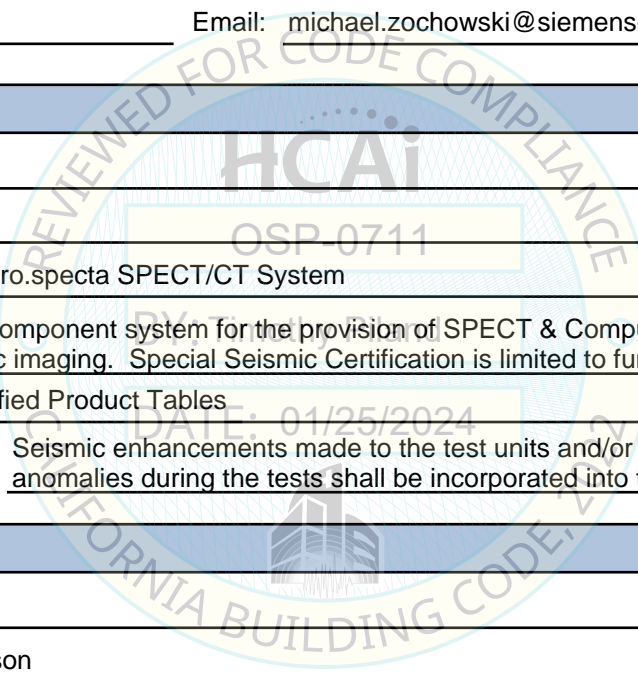
Contact Person: Jonathan Roberson

Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA 91709

Telephone: (909) 606-7622

Email: jon@easeco.com

Title: Principal Engineer





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION**

**California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)**

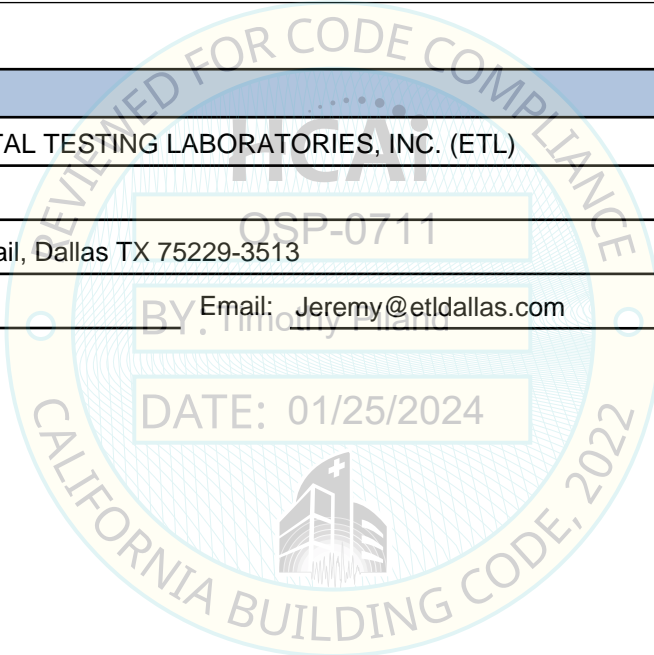
Company Name: EASE LLC  
Name: Jonathan Roberson California License Number: S4197  
Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709  
Telephone: (951) 295-1892 Email: jon@EASECo.com

**Certification Method**

GR-63-Core       ICC-ES AC156       IEEE 344       IEEE 693       NEBS 3  
 Other (Please Specify): \_\_\_\_\_

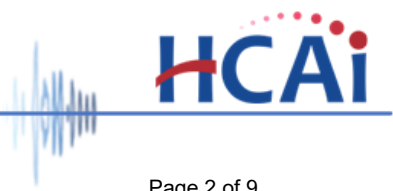
**Testing Laboratory**

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)  
Contact Person: Jeremy Lange  
Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513  
Telephone: (972) 247-9657 Email: Jeremy@etldallas.com



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**STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY**





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FACILITIES DEVELOPMENT DIVISION**

**Seismic Parameters**

Design Basis of Equipment or Components ( $F_p/W_p$ ) = See Attachment

SDS (Design spectral response acceleration at short period, g) = 2.00

$a_p$  (Amplification factor) = See Attachment

$R_p$  (Response modification factor) = See Attachment

$\Omega_0$  (System overstrength factor) = 2.0

$I_p$  (Importance factor) = 1.5

$z/h$  (Height ratio factor) = 1

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

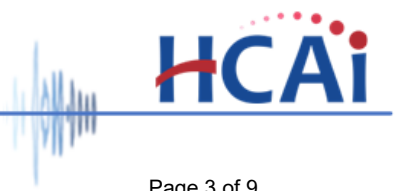
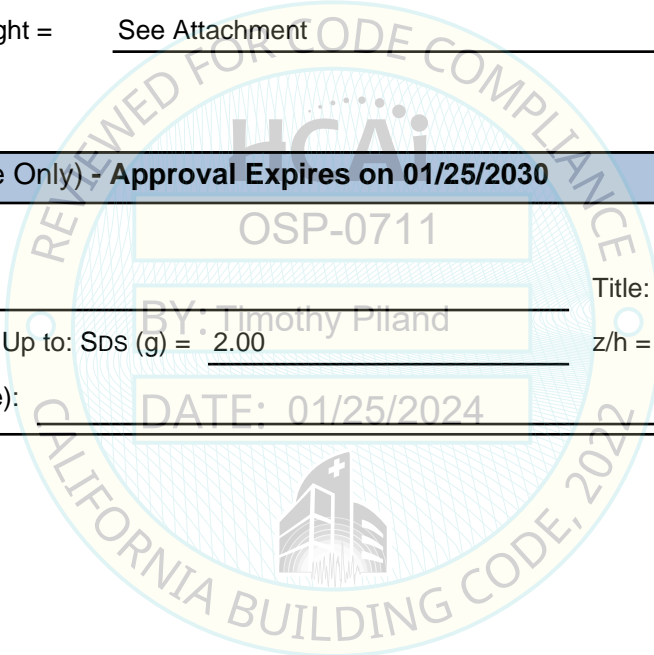
**HCAI Approval (For Office Use Only) - Approval Expires on 01/25/2030**

Date: 01/25/2024

Name: Timothy J. Piland Title: Senior Structural Engineer

Special Seismic Certification Valid Up to: SDS (g) = 2.00 z/h = 1

Condition of Approval (if applicable): DATE: 01/25/2024



**ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS**

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**TABLE 1:**

System Manufacturer		SIEMENS MEDICAL SOLUTIONS USA, INC.							S <sub>ds</sub> = 2.0 at z/h = 1			
System		Symbia Pro.specta SPECT/CT System										
COMPONENT	MODEL NUMBER	APPROX. DIMENSIONS (IN.)			APPROX. WT. (LB.)	MOUNT	BASIS <sup>[1]</sup>	F <sub>p</sub> /W <sub>p</sub>	a <sub>p</sub>	R <sub>p</sub>	Ω <sub>0</sub>	
		W	D	H								
<b>GANTRIES</b>												
Symbia Pro.specta Q3 Gantry	11364751	92.7	54.7	79.3	8210	Rigid Base	UUT-2105-1	2.40	1	1 ½	2	
Symbia Pro.specta NM Gantry	11364754											
Symbia Pro.specta Q3 CT	11061616											
Symbia Pro.specta Q3 Gantry	11364751	92.7	54.7	79.3	8210	Rigid Base	SAME	2.40	1	1 ½	2	
Symbia Pro.specta NM Gantry	11364754											
Symbia Pro.specta Q3 CT	11061753											
Symbia Pro.specta X3 Gantry	11364752	92.7	54.7	79.3	8250	Rigid Base	INT	2.40	1	1 ½	2	
Symbia Pro.specta NM Gantry	11364754											
Symbia Pro.specta X3 CT	11061626											
Symbia Pro.specta X3 Gantry	11364752	92.7	54.7	79.3	8250	Rigid Base	INT	2.40	1	1 ½	2	
Symbia Pro.specta NM Gantry	11364754											
Symbia Pro.specta X3 CT	11061755											
Symbia Pro.specta X7 Gantry	11364753	92.7	54.7	79.3	8251	Rigid Base	UUT-2105-2	2.40	1	1 ½	2	
Symbia Pro.specta NM Gantry	11364754											
Symbia Pro.specta X7 CT	11061634											
Symbia Pro.specta X7 Gantry	11364753	92.7	54.7	79.3	8251	Rigid Base	SAME	2.40	1	1 ½	2	
Symbia Pro.specta NM Gantry	11364754											
Symbia Pro.specta X7 CT	11061757											
Symbia Pro.specta Q3 Gantry	11364751	92.7	54.7	79.3	8251	Rigid Base	SAME	2.40	1	1 ½	2	
Symbia Pro.specta NM Gantry	11364754											
Symbia Pro.specta Q3 CT	11061783											
Symbia Pro.specta Q3 Gantry	11364751	92.7	54.7	79.3	8251	Rigid Base	SAME	2.40	1	1 ½	2	
Symbia Pro.specta NM Gantry	11364754											
Symbia Pro.specta Q3 CT	11061785											
Symbia Pro.specta X3 Gantry	11364752	92.7	54.7	79.3	8251	Rigid Base	SAME	2.40	1	1 ½	2	
Symbia Pro.specta NM Gantry	11364754											
Symbia Pro.specta X3 CT	11061784											

Table continues next page

**ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS**


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**TABLE 1:**

System Manufacturer								SIEMENS MEDICAL SOLUTIONS USA, INC.				S <sub>DS</sub> = 2.0 at z/h = 1	
System								Symbia Pro.specta SPECT/CT System					
COMPONENT	MODEL NUMBER	APPROX. DIMENSIONS (IN.)			APPROX. WT. (LB.)	MOUNT	BASIS <sup>[1]</sup>	F <sub>P</sub> /W <sub>P</sub>	a <sub>P</sub>	R <sub>P</sub>	Ω <sub>0</sub>		
		W	D	H									
Symbia Pro.specta X3 Gantry	11364752	92.7	54.7	79.3	8251	Rigid Base	SAME	2.40	1	1 ½	2		
Symbia Pro.specta NM Gantry	11364754												
Symbia Pro.specta X3 CT	11061786												
<b>PATIENT HANDLING SYSTEM</b>													
Front Patient Handling System (FPHS) <sup>[2]</sup> including:	11297100	32.2	96.2 – 199	21 – 47	2730 <sup>[4]</sup>	Rigid Base	UUT-2041-1	2.40	1	1 ½	2		
Automated Collimator Change (ACC)	10765300												
Integrated Collimator Change (ICC) <sup>[3]</sup>	11007879												
Automated Quality Control (AQC)	07837722												
Rear Patient Handling System (RPHS)	11337310	24.5	41.8	30.5 – 38.9	403 <sup>[4]</sup>	Rigid Base	UUT-2041-2	2.40	1	1 ½	2		
<b>USER INTERFACE</b>													
Monitor Color WCU2416 23.6 w/ stand	11061593	22.5	3.8	16 – 17.5	20	CTA	UUT-2105-3	1.44	1	2 ½	2		
Monitor HL2316SH with Foot OEM: Shenyang Torch-Bigtide Digital Technology Co. Ltd.	11330650	22.40	8.66	16.1 – 19.3	18.3	Rigid Base	UUT-2320-1	1.44	1	2 ½	2		
Control Device <sup>[5]</sup>	11061357	5	5.5	1.5	1	CTA	UUT-2105-4	1.44	1	2 ½	2		
Keyboard KB410 USB Standard US <sup>[5]</sup>	11267952	18	6.25	1	1.5	CTA	UUT-2105-5	1.44	1	2 ½	2		
<b>Mount</b>	<p><u>Rigid Base</u>: free-standing, base-mounted tower configuration with the component rigidly attached to a supporting structure and no lateral support above the base.</p> <p><u>CTA (Countertop, Anchored)</u>: unit is anchored to a counter, desk, or other piece of fixed furniture.</p>												
<b>Notes</b>	<ol style="list-style-type: none"> <li>BASIS: <ul style="list-style-type: none"> <li>UUT-# indicates that a unit matching these characteristics was included in the current test program and details of testing are documented herein.</li> <li>SAME indicates that model is physically, mechanically &amp; electrically the same as test specimen. Difference is limited to model number, color, and/or software.</li> <li>INT (Interpolated or Extrapolated) indicates model of equipment not specifically tested for which seismic qualification is established through testing of similar models in the product line.</li> </ul> </li> <li>Requires the use of Siemens Pro.specta Front PHS Seismic Kit P/N: 11518836</li> <li>Requires the use of Siemens ICC Seismic Brace Kit P/N: 11007820</li> <li>Does not include 400 LB patient test load that was supported by FPHS and RPHS</li> <li>Requires the use of Siemens Pro.specta System Seismic Kit P/N: 11431845</li> </ol>												



**ATTACHMENT 2: TEST SPECIMEN SUMMARY**

<b>UUT-2041-1 Front Patient Handling System (FPHS)</b>						
<i>Manufacturer:</i> Siemens Healthcare GmbH						
<i>Identification:</i> Model No.: 11297100 Serial No.: 1005						
<i>Description:</i> Component of the Symbia Pro.specta SPECT/CT System  Also contains: Automated Collimator Change (ACC), Model: 10765300 Integrated Collimator Change (ICC), Model: 11007879 Automated Quality Control (AQC), Model: 07837722 2x Medium Energy Collimators, P/N: 7332005  Requires Pro.specta Front PHS Seismic Kit P/N: 11518836 Requires ICC Seismic Brace Kit P/N: 11007820  Tested Patient Load: 400 LB (Shared with Rear PHS)						
<i>Mounting:</i> Rigid Base (Floor) mounted using (6) 3/8" SAE J429 Grade 5 bolts w/ washers						
Dimensions [in]				Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Weight [lb]	Side - Axis	Front - Axis	Vert - Axis
32.2	160	35	2730	4.04	> 50	8.02
ICC-ES AC156 Shake Table Test Parameters						Code: 2022 CBC
S <sub>DS</sub> [G]	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> [G]	A <sub>RI-GH</sub> [G]	A <sub>FLX-V</sub> [G]	A <sub>RI-GV</sub> [G]
2.0	1	1.5	3.20	2.40	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

<b>UUT-2041-2 Rear Patient Handling System (RPHS)</b>						
<i>Manufacturer:</i> Siemens Healthcare GmbH						
<i>Identification:</i> Model No.: 11337310 Serial No.: 1010						
<i>Description:</i> Component of the Symbia Pro.specta SPECT/CT System  Tested Patient Load: 400 LB (Shared with Front PHS)						
<i>Mounting:</i> Rigid Base (Floor) mounted using (8) 3/8" SAE J429 Grade 5 bolts w/ washers						
Dimensions [in]				Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Weight [lb]	Side - Axis	Front - Axis	Vert - Axis
24.5	41.8	32	403	21.72	11.52	11.10
ICC-ES AC156 Shake Table Test Parameters						Code: 2022 CBC
S <sub>DS</sub> [G]	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> [G]	A <sub>RI-GH</sub> [G]	A <sub>FLX-V</sub> [G]	A <sub>RI-GV</sub> [G]
2.0	1	1.5	3.20	2.40	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

<b>UUT-2105-1 Symbia Pro.specta Q3 SPECT/CT Gantry</b>							
<i>Manufacturer:</i>		Siemens Medical Solutions USA, Inc.					
<i>Identification:</i>		Model No.: 11364751 Serial No.: ENGTEST1					
<i>Description:</i>		Component of the Symbia Pro.specta SPECT/CT System					
		<p><u>Includes:</u>                      Symbia Pro.specta Config SPECT-CT (SPECT Gantry)                      Model No. 11364754 Serial No. ENGTEST1                      (Same test sample as used in UUT-2105-2)</p> <p>Symbia Pro.specta Q3 CT Gantry Sub-assembly                      Model No. 11061616 Serial No. 113004                      (CT sub-assembly mounted to back of SPECT gantry structure)</p> <p>Evaluation limited to CT imaging only.</p>					
<i>Mounting:</i>		Rigid Base (Floor) mounted using (4) 3/4" SAE J429 Grade 8 bolts					
<b>Dimensions [in]</b>				<b>Weight [lb]</b>	<b>Lowest Resonant Frequency [Hz]</b>		
Width	Depth	Height	Side - Axis		Front - Axis	Vert - Axis	
92.7	54.7	79.3	6.75		3.78	4.66	
<b>ICC-ES AC156 Shake Table Test Parameters</b>						<b>Code: 2022 CBC</b>	
S <sub>DS</sub> [G]	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> [G]	A <sub>RIG-H</sub> [G]	A <sub>FLX-V</sub> [G]	A <sub>RIG-V</sub> [G]	
2.0	1	1.5	3.20	2.40	1.34	0.54	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							





<b>UUT-2105-2 Symbia Pro.specta X7 SPECT/CT Gantry</b>							
<i>Manufacturer:</i>		Siemens Medical Solutions USA, Inc.					
<i>Identification:</i>		Model No.: 11364753 Serial No.: ENGTEST1					
<i>Description:</i>		Component of the Symbia Pro.specta SPECT/CT System					
		<p><u>Includes:</u>                      Symbia Pro.specta Config SPECT-CT (SPECT Gantry)                      Model No. 11364754 Serial No. ENGTEST1                      (Same test sample as used in UUT-2105-1)</p> <p>Symbia Pro.specta X7 CT Gantry Sub-assembly                      Model No. 11061634 Serial No. 133504                      (CT sub-assembly mounted to back of SPECT gantry structure)</p> <p>Evaluation limited to CT imaging only.</p>					
<i>Mounting:</i>		Rigid Base (Floor) mounted using (4) 3/4" SAE J429 Grade 8 bolts					
<b>Dimensions [in]</b>				<b>Weight [lb]</b>	<b>Lowest Resonant Frequency [Hz]</b>		
Width	Depth	Height	Side - Axis		Front - Axis	Vert - Axis	
92.7	54.7	79.3	6.73		3.78	4.32	
<b>ICC-ES AC156 Shake Table Test Parameters</b>						<b>Code: 2022 CBC</b>	
S <sub>DS</sub> [G]	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> [G]	A <sub>RIG-H</sub> [G]	A <sub>FLX-V</sub> [G]	A <sub>RIG-V</sub> [G]	
2.0	1.0	1.5	3.20	2.40	1.34	0.54	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							





**ATTACHMENT 2: TEST SPECIMEN SUMMARY**

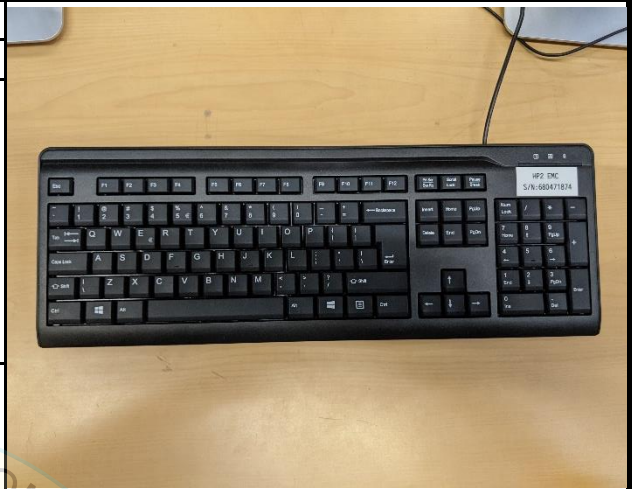
<b>UUT-2105-3 Monitor Color WCU2416 23.6 w/ stand</b>						
<i>Manufacturer:</i>		Nanjing Jusha Display Technology Co., Ltd				
<i>Identification:</i>		Model No.: 11061593 Serial No.: 302290				
<i>Description:</i>		Component of the Symbia Pro.specta SPECT/CT System  Monitor Color WCU2416 23.6 w/ stand  24" wide screen color monitor w/ USB-HUB				
<i>Mounting:</i>		Countertop (attached) Mounted using: (3) #10 Socket Head Cap Screws ISO 898-1 Class 10.9 through 3/4" plywood with washers and nylon locknuts				
<b>Dimensions [in]</b>				<b>Lowest Resonant Frequency [Hz]</b>		
Width	Depth	Height	Weight [lb]	Front - Axis	Side - Axis	Vert - Axis
22.5	3.8	17.5	20	6.18	5.46	6.21
<b>ICC-ES AC156 Shake Table Test Parameters</b>						<b>Code: 2022 CBC</b>
S <sub>DS</sub> [G]	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> [G]	A <sub>RIG-H</sub> [G]	A <sub>FLX-V</sub> [G]	A <sub>RIG-V</sub> [G]
2.0	1.0	1.5	3.20	2.40	1.34	0.54
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

<b>UUT-2105-4 Control Device</b>						
<i>Manufacturer:</i>		Siemens Medical Solutions USA, Inc.				
<i>Identification:</i>		Model No.: 11061357 Serial No.: 03352				
<i>Description:</i>		Component of the Symbia Pro.specta SPECT/CT System  <b>Requires:</b> Siemens Part No 4357153-EBK-000 (3M SJ3542 1" x 3") and Siemens Part No 4362492-EBK-000 (3M SJ3541 1" x 3")  These are contained in Pro.specta System Seismic Kit P/N: 11431845				
<i>Mounting:</i>		Countertop (attached) Mounted using: (2) lines of 1" x 3" Dual Lock 3M SJ3541 mated to 3M SJ3542				
<b>Dimensions [in]</b>				<b>Lowest Resonant Frequency [Hz]</b>		
Width	Depth	Height	Weight [lb]	Front - Axis	Side - Axis	Vert - Axis
5	5.5	1.5	1	>50	>50	48.27
<b>ICC-ES AC156 Shake Table Test Parameters</b>						<b>Code: 2022 CBC</b>
S <sub>DS</sub> [G]	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> [G]	A <sub>RIG-H</sub> [G]	A <sub>FLX-V</sub> [G]	A <sub>RIG-V</sub> [G]
2.0	1.0	1.5	3.20	2.40	1.34	0.54
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						



**ATTACHMENT 2: TEST SPECIMEN SUMMARY**

<b>UUT-2105-5 Keyboard KB410 USB Standard US</b>						
<i>Manufacturer:</i>		FUJITSU Technology Solutions				
<i>Identification:</i>		Model No.: 11267952 Serial No.: 1804028102152				
<i>Description:</i>		Component of the Symbia Pro.specta SPECT/CT System				
<i>Requires:</i>		Siemens Part No 4357153-EBK-000 (3M SJ3542 1" x 3") and Siemens Part No 4362492-EBK-000 (3M SJ3541 1" x 3")				
		These are contained in Pro.specta System Seismic Kit P/N: 11431845				
<i>Mounting:</i>		<u>Countertop (attached) Mounted using:</u> (2) lines of 1" x 3" Dual Lock 3M SJ3541 mated to 3M SJ3542				
Dimensions [in]				Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Weight [lb]	Front - Axis	Side - Axis	Vert - Axis
18	6.25	1	1.5	>50	>50	49.03
ICC-ES AC156 Shake Table Test Parameters						Code: 2022 CBC
S <sub>DS</sub> [G]	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> [G]	A <sub>RI-G</sub> [G]	A <sub>FLX-V</sub> [G]	A <sub>RI-V</sub> [G]
2.0	1.0	1.5	3.20	2.40	1.34	0.54
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						



<b>UUT-2320-1 LCD Monitor with Foot</b>						
<i>Manufacturer:</i>		Shenyang Torch-Bigtide Digital Technology Co. Ltd.				
<i>Identification:</i>		Model No.: 11330650 (Siemens) HL2316SH (OEM) Serial No.: 233379				
<i>Description:</i>		Component of Symbia Pro.Specta System 23.8" LCD Monitor "Foot" refers to the desktop monitor stand.				
<i>Mounting:</i>		<u>Countertop (attached) Mounted using:</u> (2) - M6 Class 8.8 Socket Head Cap Screws with flat washers through 3/4" plywood into threaded base of UUT.				
Dimensions [in]				Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Weight [lb]	Front - Axis	Side - Axis	Vert - Axis
22.40	8.66	19.29	18.3	10.09	11.50	11.14
ICC-ES AC156 Shake Table Test Parameters						Code: 2022 CBC
S <sub>DS</sub> [G]	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> [G]	A <sub>RI-G</sub> [G]	A <sub>FLX-V</sub> [G]	A <sub>RI-V</sub> [G]
2.0	1	1.5	3.20	2.40	1.34	0.54
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

