



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

**APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: OSP-0330

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: GE HEALTHCARE

Manufacturer's Technical Representative: Tom Farnow

Mailing Address: 3000 N. Grandview Blvd., Waukesha, WI 53188-1696

Telephone: (888) 406-1101

Email: Tom.Farnow@gehcseismic.com

Product Information

Product Name: CT Systems

Product Type: NA

Product Model Number: Discovery MI, Discovery MI Digital Ready, Discovery IQ, Discovery 610 / 690 / 710 PET-CT Systems

General Description: System components of multiple-component medical imaging systems. Special Seismic Certification of the Discovery 690 PET Gantry includes PET medical imaging services. For all other components listed in Attachment 1, Special Seismic Certification is limited to functions related to Computed Tomography (CT) medical imaging services. 12/14/2022

Mounting Description: Rigid, 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 LLC

Contact Person: JONATHAN ROBERSON

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

Telephone: (909) 606-7622

Email: j.roberson@easeco.com

Title: Principal Engineer





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

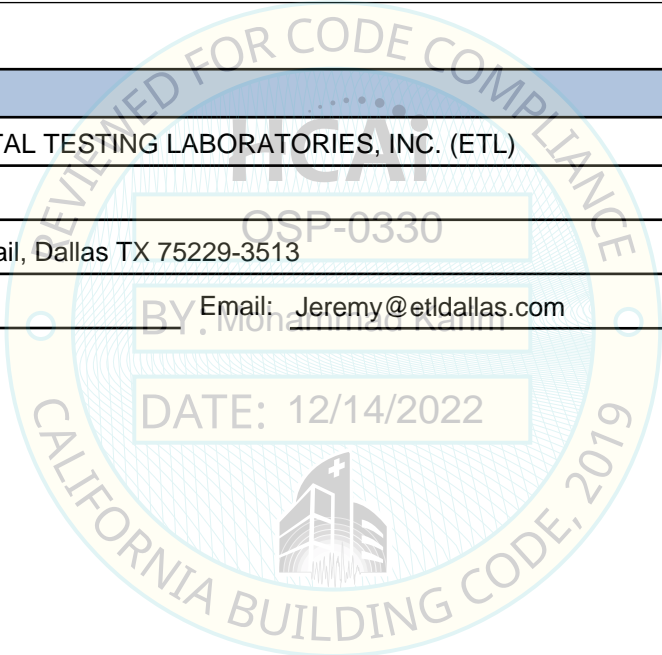
Company Name: EASE LLC
Name: Jonathan Roberson California License Number: S4197
Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709
Telephone: (951) 295-1892 Email: jon@EASECo.com

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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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) =	See Attachment 1, Table 2
SDS (Design spectral response acceleration at short period, g) =	1.52
a_p (Amplification factor) =	See Attachment 1, Table 2
R_p (Response modification factor) =	See Attachment 1, Table 2
Ω_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 12/14/2028

Date:	12/14/2022	OSP-0330
Name:	Mohammad Karim	Title: Supervisor, Health Facilities
Special Seismic Certification Valid Up to: SDS (g) =	1.52	$z/h = 1$
Condition of Approval (if applicable):	Special Seismic Certification is limited to the functions related to Computer Tomography (CT) medical imaging only, with the exception of the Discovery 690 PET Gantry, which is certified for the PET medical imaging function.	



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1: SEISMIC CERTIFIED SYSTEMS & COMPONENTS ^[6]

Manufacturer		GE HEALTHCARE						
System		Discovery 610 PET-CT Discovery 690 PET-CT Discovery MI			Discovery 710 PET-CT Discovery IQ Discovery MI Discovery MI Digital Ready PET			
COMPONENT	MODEL NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]	
		W	D	H				
PET-CT GANTRIES ^[7]								
Optima CT-540 Gantry, PET Specific	5432539-20	77.4	93.59	76	3887	Floor	UUT-B1	
25cm Comet PET Gantry	5900025				3800			
Optima CT-540 Gantry, PET Specific	5432539-20	77.4	93.59	76	3887	Floor	INT	
20cm Comet PET Gantry	5900020				3750			
Optima CT-540 Gantry, PET Specific	5432539-20	77.4	93.59	76	3887	Floor	INT	
15cm Comet PET Gantry	5900015				3700			
Optima CT-540 Gantry, PET Specific	5432539-20	77.4	93.59	76	3887	Floor	INT	
10cm Comet PET Gantry	5900010				3650			
Optima CT-540 Gantry, PET Specific	5432539-22	89	101	76	3887	Floor	INT	
25cm Comet PET Gantry	5900025				3500			
Optima CT-540 Gantry, PET Specific	5432539-22	89	101	76	3887	Floor	INT	
20cm Comet PET Gantry	5900020				3450			
Optima CT-540 Gantry, PET Specific	5432539-22	89	101	76	3887	Floor	INT	
15cm Comet PET Gantry	5900015				3400			
Optima CT-540 Gantry, PET Specific	5432539-22	89	101	76	3887	Floor	INT	
10cm Comet PET Gantry	5900010				3350			
Optima CT-540 Gantry, PET Specific	5432539-22	89	101	76	3887	Floor	UUT-E1	
25cm Odyssey PET Gantry	5900025-20				3500			
Optima CT-540 Gantry, PET Specific	5432539-22	89	101	76	3887	Floor	INT	
20cm Odyssey PET Gantry	5900020-20				3450			
Optima CT-540 Gantry, PET Specific	5432539-22	89	101	76	3887	Floor	INT	
15cm Odyssey PET Gantry	5900015-20				3400			
Optima CT-540 Gantry, PET Specific	5432539-22	89	101	76	3887	Floor	INT	
10cm Odyssey PET Gantry	5900010-20				3350			
Revolution EVO CT Gantry, PET Specific	5454001-170	77.4	93.59	76	3940	Floor	UUT-C1	
25cm Columbia PET Gantry	5990025				3915			
Revolution EVO CT Gantry, PET Specific	5454001-170	77.4	93.59	76	3940	Floor	INT	
20cm Columbia PET Gantry	5990020				3870			
Revolution EVO CT Gantry, PET Specific	5454001-170	77.4	93.59	76	3940	Floor	INT	
15cm Columbia PET Gantry	5990015				3825			
Revolution EVO CT Gantry, PET Specific	5454001-170	87	70	76	3940	Floor	INT	
Discovery MI Digital Ready PET Gantry	5986030				3985			
Revolution EVO CT Gantry, PET Specific	5454001-170	87	70	76	3940	Floor	INT	
Discovery PET-CT 710 (EVO) PET Gantry	5986031				3985			
BrightSpeed Elite CT Gantry	5144691-16	87	103	76	3887	Floor	UUT-1	
Discovery 610 PET Gantry	5856010				4217			
BrightSpeed Elite CT Gantry	5144691-15	87	40.1	76	3887	Floor	SAME	
Optima CT 660 Gantry, PET Specific	5454001-152	87	40.9	76.3	4042	Floor	INT	

Table continues next page.

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1: SEISMIC CERTIFIED SYSTEMS & COMPONENTS ^[6]

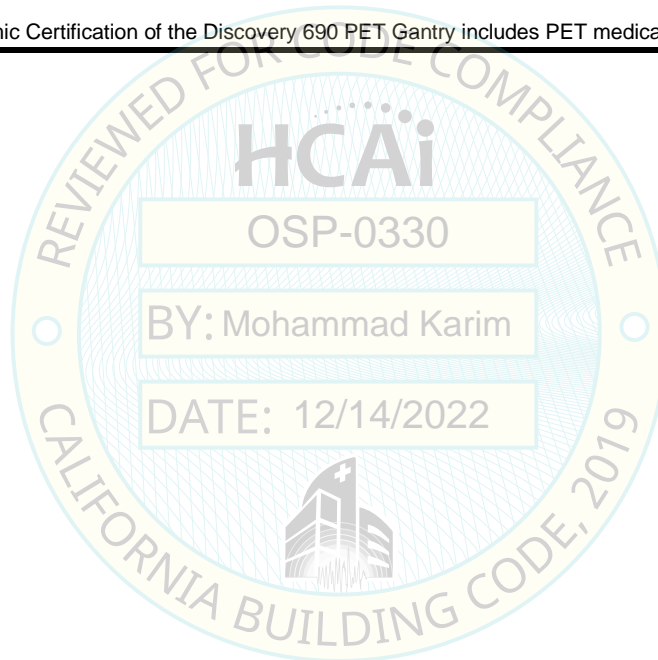
Manufacturer GE HEALTHCARE								
System			Discovery 610 PET-CT Discovery 690 PET-CT Discovery MI					
			Discovery 710 PET-CT Discovery IQ Discovery MI Discovery MI Digital Ready PET					
COMPONENT	MODEL NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]	
		W	D	H				
Optima CT 660 Gantry ^[8]	5454001-100	80.7	40.9	76.3	4013	Floor	UUT-A1	
Discovery 710 PET Gantry	5856030	87	70	76	4217	Floor	INT	
Brightspeed Gantry, PET Specific	5143716-10	87	40.1	76	3887	Floor	UUT-3	
Discovery 690 PET Gantry ^[11]	5201110	87	70	76	4631	Floor	UUT-4	
PATIENT TABLES								
PROSCAN Patient Table	5101900	26	136	22 / 42	1808 ^[4]	Floor	UUT-5	
Global PET-CT Table Ed3	5101900-2	26	136	22 / 42	1808	Floor	SAME	
Mobile Ready Global PET-CT Table Ed3	5101900-20	26	136	22 / 42	1808	Floor	SAME	
POWER DISTRIBUTION UNITS								
NGPDU-61	2326492-61	27.6	21.7	41.8	818	Floor	UUT-A2	
NGPDU-71	2326492-71	27.6	21.7	41.8	813	Floor	UUT-A3	
Power Distribution Box (PDB)	5627940	19.7	9.5	24.8	68	Wall	UUT-C2	
CONSOLES								
NIO Console	5411378-23	18.5	29.1	25.8	161	Floor	UUT-A4	
NIO Console	5411378-11	18.5	29.1	25.8	159	Floor	INT	
NIO Console	5411378-12	18.5	29.1	25.8	159	Floor	INT	
NIO Console	5411378	18.5	29.1	25.8	176	Floor	SAME	
NIO Console	5441626-14	18.5	29.1	25.8	161	Floor	INT	
NIO Console	5441626-22	18.5	29.1	25.8	159	Floor	INT	
NIO Console	5441626-24	18.5	29.1	25.8	161	Floor	INT	
NIO Console	5441626-34	18.5	29.1	25.8	161	Floor	INT	
RIO Console	5577708-6	18.5	29	25.8	176	Floor	SAME	
RIO Console	5577708-106	18.5	29	25.8	176	Floor	SAME	
RIO Console	5577708-206	18.5	29	25.8	176	Floor	SAME	
RIO Console	5577708-102	18.5	29	25.8	176	Floor	UUT-A5	
OTHER EQUIPMENT								
FWS (Freedom Workspace - Large) tabletop w/ (2) – Eizo LCD Monitors on table-mounted articulated arms	5168666-2	53.1	29.2	26.9 / 35.9	167 ^[2]	Floor ^[5]	UUT-2	
PET Adjustable Desk w/ (2) – Eizo 19" LCD Monitors on table mounts	5486188-10	60	36	27.25 / 30.0 ^[9]	155 ^[2]	Floor	UUT-B2	
Lytron Chiller	5582166	22	28	32	314 ^[2]	Floor	UUT-C3	
Mount	Floor (Rigid Base): free-standing, base-mounted condition with the component rigidly attached to a supporting structure and no lateral support above the base. Wall: refers to a condition where the unit is fully supported- both vertically and laterally – by a building wall or partition.							
Notes	1. BASIS: <ul style="list-style-type: none"> • UUT#: Indicates that a test specimen matching these characteristics was tested as part of this testing program. • SAME: Model is physically, mechanically & electrically the same as test specimen. Difference is limited to model number, color and/or software. • INT (Interpolate or extrapolate): indicates a model that was not specifically tested, and by which seismic qualification was established through evaluation of testing of other, similar models in the product line. 							

Table continues next page.

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1: SEISMIC CERTIFIED SYSTEMS & COMPONENTS ^[6]

<i>Manufacturer</i>	GE HEALTHCARE						
<i>System</i>	Discovery 610 PET-CT Discovery 690 PET-CT Discovery MI			Discovery 710 PET-CT Discovery IQ Discovery MI Discovery MI Digital Ready PET			
COMPONENT	MODEL NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]
		W	D	H			
<i>Notes</i>	<ol style="list-style-type: none"> 2. Weight includes 2 LCD monitors. 3. All components in table above are manufactured by GE Healthcare except as noted. 4. Patient Table weight does not include the 300 lb. simulated patient load present during testing 5. The GE Healthcare seismic bracket (Model No.5394347) used in this testing program shall be installed. 6. Seismic certification is limited to functions related to Computed Tomography (CT) only, unless otherwise noted. 7. Except as noted below, all gantry model numbers listed are versions specific to PET-CT. 8. Gantry is a dedicated CT gantry included here only for purposes of interpolation. It is not a component of a PET-CT system. 9. Maximum adjustable height of desk is 45.25". Seismic Certification limited to a maximum height of 30" used in test. 10. Not Used 11. Special Seismic Certification of the Discovery 690 PET Gantry includes PET medical imaging services. 						



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 2: ASCE 7-16 DESIGN BASIS FOR EQUIPMENT

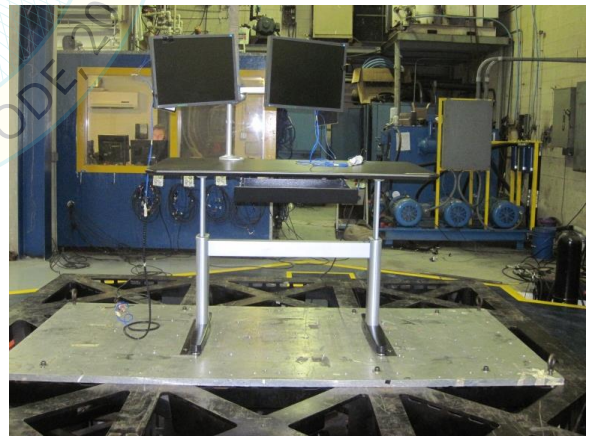
COMPONENT	MODEL NO.	F _p /W _p	S _{DS}	z/h	a _p	R _p	Ω ₀
PET-CT GANTRIES							
Optima CT-540 Gantry, PET Specific	5432539-22						
25cm Odyssey PET Gantry	5900025-20						
20cm Odyssey PET Gantry	5900020-20						
15cm Odyssey PET Gantry	5900015-20						
10cm Odyssey PET Gantry	5900010-20						
Optima Elite CT-540 Gantry, PET Specific	5432539-20						
25cm Comet PET Gantry	5900025						
20cm Comet PET Gantry	5900020						
15cm Comet PET Gantry	5900015						
10cm Comet PET Gantry	5900010						
Revolution EVO CT Gantry, PET Specific	5454001-170						
25cm Columbia PET Gantry	5990025	1.82	1.52	1	1	1 ½	2
20cm Columbia PET Gantry	5990020						
15cm Columbia PET Gantry	5990015						
Discovery MI Digital Ready PET Gantry	5986030						
Discovery PET-CT 710 (EVO) PET Gantry	5986031						
BrightSpeed Elite CT Gantry	5144691-16						
Discovery 610 PET Gantry	5856010						
BrightSpeed Elite CT Gantry	5144691-15						
Optima CT 660 Gantry, PET Specific	5454001-152						
Optima CT 660 Gantry	5454001-100						
Discovery 710 PET Gantry	5856030						
Brightspeed Gantry, PET Specific	5143716-10						
Discovery 690 PET Gantry	5201110						
PATIENT TABLES							
PROSCAN Patient Table	5101900						
Global PET-CT Table Ed3	5101900-2	1.82	1.52	1	1	1 ½	2
Mobile Ready Global PET-CT Table Ed3	5101900-20						
POWER DISTRIBUTION UNITS							
NGPDU-61	2326492-61	1.09	1.52	1	1	2 ½	2
NGPDU-71	2326492-71						
Power Distribution Box (PDB)	5627940	1.09	1.52	1	1	2 ½	2
CONSOLES							
NIO Console	5411378-23						
NIO Console	5411378-11						
NIO Console	5411378-12						
NIO Console	5411378						
NIO Console	5441626-22	1.14	1.52	1	2 ½	6	2
NIO Console	5441626-14						
NIO Console	5441626-24						
NIO Console	5441626-34						
RIO Console	5577708-6						
RIO Console	5577708-106						
RIO Console	5577708-206						
RIO Console	5577708-102						
OTHER EQUIPMENT							
Freedom Workspace (FWS) – Large tabletop w/ (2) – Eizo LCD Monitors on table-mounted articulated arms	5168666-2	1.09	1.52	1	1	2 ½	2
PET Adjustable Desk w/ (2) – Eizo 19" LCD Monitors on table mounts	5486188-10	1.09	1.52	1	1	2 ½	2
Lytron Chiller	5582166	1.09	1.52	1	1	2 ½	2

ATTACHMENT 2: TEST UNIT SUMMARY

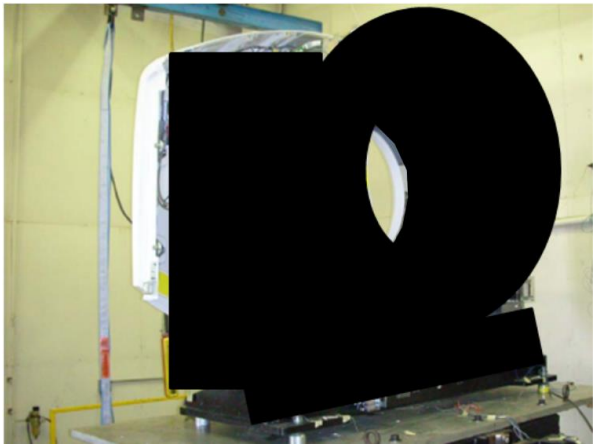
UUT- 1		Discovery 610 PET-CT Gantry	
MANUFACTURER:		GE Healthcare	
IDENTIFICATION:		PET Model: 5856010 CT Model 5144691-16 PET S/N: 12658PT1 CT S/N: 256315HM3	
DESCRIPTION:		System component of the Discovery 610 PET/CT System : <ul style="list-style-type: none"> BrightSpeed Elite CT Gantry (Brightspeed MERI) Discovery 610 PET Gantry The tested configuration included both a PET gantry and a CT gantry in a complete PET-CT assembly. Functionality verification for this test specimen was limited to functions related to CT imaging only.	
MOUNTING:		Rigid Base (Floor) Mounted using (6) - 5/8" Dia Gr. 8 bolts to interface frame.	
PROPERTIES:			
DIMENSIONS (in.)			LOWEST RESONANT FREQUENCY (Hz.)
Width	Depth	Height	Weight (lb.)
87	103	76	8,039
			Side/Side
			Front/Back
			Vert
			6.8
			8.3
			9.5
SHAKE TABLE TEST PARAMETERS			
TEST CRITERIA	S _{DS} (g)	z/h	I _P
ICC-ES AC156	2.0 2.6	1.0 0.0	1.5
			A _{FLX-H} (g)
			A _{RIG-H} (g)
			A _{FLX-V} (g)
			A _{RIG-V} (g)
			3.20
			2.40
			1.74
			0.70
Unit maintained structural integrity and remained functional per manufacturer requirement			




UUT-2		Freedom Workspace – Large w/ 2 LCD monitors	
MANUFACTURER:		GE Healthcare	
IDENTIFICATION:		Model No. 5168666-2	
DESCRIPTION:		System component of the Discovery 610 PET/CT System Larger variant of the Freedom Workspace table w/ (2)-EIZO LCD Monitors mounted to articulated arms	
MOUNTING:		Rigid Base (Floor) mounted using GE Healthcare seismic bracket Model No. 5394347 w/ (4) – 3/8" Dia Cap bolts to aluminum interface plate.	
PROPERTIES:			
DIMENSIONS (in.)			LOWEST RESONANT FREQUENCY (Hz.)
Width	Depth	Height	Weight (lb.)
53.1	29.2	35	167
			Front/Back
			Side/Side
			Vert
			6.1
			3.9
			3.9
SHAKE TABLE TEST PARAMETERS			
TEST CRITERIA	S _{DS} (g)	z/h	I _P
ICC-ES AC156	2.0 2.6	1.0 0.0	1.5
			A _{FLX-H} (g)
			A _{RIG-H} (g)
			A _{FLX-V} (g)
			A _{RIG-V} (g)
			3.20
			2.40
			1.74
			0.70
Unit maintained structural integrity and remained functional per manufacturer requirement			





ATTACHMENT 2: TEST UNIT SUMMARY

UUT- 3 Discovery PET/CT 690 BrightSpeed CT Gantry							
MANUFACTURER:		GE Healthcare					
IDENTIFICATION:		P/N: 5143716-10		HLA No.: 5144709			
		S/N: 393918CN8					
DESCRIPTION:		System component of the Discovery PET/CT 690 System PET specific version of BrightSpeed CT Gantry & counterpart to UUT-4					
MOUNTING:		Rigid Base (Floor) Mounted using (4) - 5/8" Dia bolts to interface plate.					
							
PROPERTIES:							
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	X-Axis		Y-Axis	Vert	
89.2	39.6	74.6	4,200	7.5	6.8	12	
SHAKE TABLE TEST PARAMETERS							
TEST CRITERIA	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
ICC-ES AC156	1.93	1	1.5	3.09	2.32	1.29	0.52
Unit maintained structural integrity and remained functional per manufacturer requirement							

UUT-4 Discovery PET/CT 690 PET Gantry							
MANUFACTURER:		GE Healthcare					
IDENTIFICATION:		P/N: 5201110		HLA No.: 5144709			
		S/N: 405144CN7					
DESCRIPTION:		System component of the Discovery PET/CT 690 System PET Gantry Counterpart to UUT-3					
MOUNTING:		Rigid Base (Floor) Mounted using (4) - 5/8" Dia bolts to interface plate.					
							
PROPERTIES:							
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	X-Axis		Y-Axis	Vert	
87	70	76	4,550	9	9.2	15	
SHAKE TABLE TEST PARAMETERS							
TEST CRITERIA	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
ICC-ES AC156	1.93	1	1.5	3.09	2.32	1.29	0.52
Unit maintained structural integrity and remained functional per manufacturer requirement							

ATTACHMENT 2: TEST UNIT SUMMARY

UUT- 5 PROSCAN Patient Table								
MANUFACTURER:		GE Healthcare						
IDENTIFICATION:		P/N: 5101900						
		S/N: 176453HM9						
DESCRIPTION:		System component of the Discovery PET/CT 690 System & Discovery PET/CT 600 System						
MOUNTING:		Rigid Base (Floor) Mounted using (4) - 5/8" Dia Gr. 8 bolts to interface plate.						
								
PROPERTIES:								
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	X-Axis		Y-Axis	Vert		
25.6	135.8	22/ 42	1808	---*	5.3	>33		
SHAKE TABLE TEST PARAMETERS								* Instrumentation error
TEST CRITERIA	S_{Ds} (g)	z/h	I_p	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
ICC-ES AC156	1.52	1	1.5	1.82	1.37	0.76	0.31	
Unit maintained structural integrity and remained functional per manufacturer requirement								

UUT- A1 Optima CT660 Gantry								
MANUFACTURER:		GE Medical Systems, LLC						
IDENTIFICATION:		Model No.: 5454001-100						
		S/N: 423765CN7						
DESCRIPTION:		System component of the Optima CT660 System						
MOUNTING:		Rigid Base (Floor) mounted using (4) - 5/8" dia. hex head bolts to interface frame.						
								
PROPERTIES:								
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Front/Back		Side/Side	Vert		
80.7	40.9	76.3	4013	5.7	9.4	13.9		
SHAKE TABLE TEST PARAMETERS								
TEST CRITERIA	S_{Ds} (g)	z/h	I_p	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
ICC-ES AC156	2.0 2.6	1.0 0.0	1.5	3.20	2.40	1.74	0.70	
Unit maintained structural integrity and remained functional per manufacturer requirement								

ATTACHMENT 2: TEST UNIT SUMMARY

UUT- A2		NGPDU-61					
MANUFACTURER:		GE Hangwei Medical Systems CO., LTD					
IDENTIFICATION:		Model No.: 2326492-61 Serial No.: : 322132HM2					
DESCRIPTION:		System component of the Optima CT580 System					
MOUNTING:		Rigid Base (Floor) Mounted using (4) - 3/8" dia. socket head bolts to aluminum interface plate.					
PROPERTIES:							
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Weight (lb.)	Side/Side	Front/Back	Vert	
27.6	21.7	41.8	818	15.7	19.9	45	
SHAKE TABLE TEST PARAMETERS							
TEST CRITERIA	S_{Ds} (g)	z/h	I_p	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
ICC-ES AC156	2.0 2.6	1.0 0.0	1.5	3.20	2.40	1.74	0.70
Unit maintained structural integrity and remained functional per manufacturer requirement							

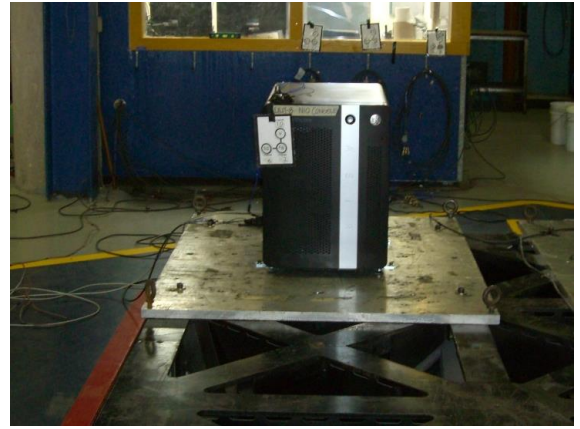


UUT-A3		NGPDU-71					
MANUFACTURER:		GE Hangwei Medical Systems Co., LTD					
IDENTIFICATION:		Model No.: 2326492-71 Serial No.: : 306846HM7					
DESCRIPTION:		System component of the Optima CT540 System					
MOUNTING:		Rigid Base (Floor) mounted using (4) - 3/8" Dia grade 8 Allen head Cap bolts to aluminum interface plate.					
PROPERTIES:							
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Weight (lb.)	Front/Back	Side/Side	Vert	
27.6	21.7	41.8	813	17.2	15.6	32.6	
SHAKE TABLE TEST PARAMETERS							
TEST CRITERIA	S_{Ds} (g)	z/h	I_p	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
ICC-ES AC156	2.0 2.6	1.0 0.0	1.5	3.20	2.40	1.74	0.70
Unit maintained structural integrity and remained functional per manufacturer requirement							



ATTACHMENT 2: TEST UNIT SUMMARY

UUT- A4		NIO Console	
MANUFACTURER:		GE Hangwei Medical Systems Co., LTD	
IDENTIFICATION:		Model No.: 5411378-11 (on label) Model No.: 5411378-23 (as configured w/ GPU card)	
DESCRIPTION:		System component of the Optima CT580 System Unit included GPU card added to the test specimen prior to test, transforming it from Model No. 5411378-11 to 5411378-23.	
MOUNTING:		Rigid Base (Floor) Mounted using (4) - 3/8" Dia grade 8 Allen head Cap bolts to aluminum interface plate.	
PROPERTIES:			
DIMENSIONS (in.)			LOWEST RESONANT FREQUENCY (Hz.)
Width	Depth	Height	Weight (lb.)
18.5	29.1	25.8	161
			Side/Side
			Front/Back
			Vert
			12.2
			16.8
			9.9
SHAKE TABLE TEST PARAMETERS			
TEST CRITERIA	S _{Ds} (g)	z/h	I _p
ICC-ES AC156	2.0 2.6	1.0 0.0	1.5
			A _{FLX-H} (g)
			A _{RIG-H} (g)
			A _{FLX-V} (g)
			A _{RIG-V} (g)
			3.20
			2.40
			1.74
			0.70
Unit maintained structural integrity and remained functional per manufacturer requirement			



UUT- A5		RIO Console		DATE: 12/14/2022			
MANUFACTURER:		GE Medical Systems, LLC					
IDENTIFICATION:		Model No.: 5577708-102 S/N: 424057CN8					
DESCRIPTION:		System component of the Optima CT660 System					
MOUNTING:		Rigid Base (Floor) Mounted using (4) - 3/8" dia. socket head bolts to aluminum interface plate.					
PROPERTIES:							
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height		Front/Back	Side/Side	Vert	
18.5	29	25.8	175.5	21.8	13.5	13.6	
SHAKE TABLE TEST PARAMETERS							
TEST CRITERIA	S _{Ds} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
ICC-ES AC156	2.0 2.6	1.0 0.0	1.5	3.20	2.40	1.74	0.70
Unit maintained structural integrity and remained functional per manufacturer requirement							

ATTACHMENT 2: TEST UNIT SUMMARY

UUT- B1		Discovery IQ PET-CT Gantry					
MANUFACTURER:		GE Healthcare					
IDENTIFICATION:		PET Model: 5900025 CT Model 5432539-20 PET S/N: 13465PT0 CT S/N: 256329HM4					
DESCRIPTION:		System Component of the Discovery IQ PET-CT System: <ul style="list-style-type: none"> • Optima Elite CT-540 Gantry • 25cm Comet PET Gantry The tested configuration included both a PET gantry and a CT gantry in a complete PET-CT assembly. <ul style="list-style-type: none"> • Functionality verification for this test specimen was limited to functions related to CT imaging only. 					
MOUNTING:		FLOOR MOUNTED (Rigid Base) (12) – 5/8" dia GR 8 hex head bolts to interface frame.					
PROPERTIES:							
DIMENSIONS (in.)			LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)	Side/Side	Front/Back	Vert	
77.4	93.59	76	7687	7.4	8.8	8.9	
SHAKE TABLE TEST PARAMETERS							
TEST CRITERIA	S _{Ds} (g)	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
ICC-ES AC156	2.0 2.5	1.0 0.0	1.5	3.20	2.40	1.68	0.68
Unit maintained structural integrity and remained functional per manufacturer requirement							



UUT-B2		PET Adjustable Desk w/ (2) 19" LCD Monitors					
MANUFACTURER:		Desk: KI Monitor: Eizo					
IDENTIFICATION:		Model No.: 5486188-10					
DESCRIPTION:		System component of the Discovery IQ PET-CT System:					
MOUNTING:		Floor mounted using (4) – 5/16" dia GR 8 hex head bolts with GE mounting bracket. Monitors attached to GE Healthcare Mobile CT monitor mounts and secured to desk with (4)-M6 machine screws through desktop with nuts and washers at underside.					
PROPERTIES:							
DIMENSIONS (in.)			LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)	Side/Side	Front/Back	Vert	
58.25	35.25	30"	155	5.1	4.9	19.6	
SHAKE TABLE TEST PARAMETERS							
TEST CRITERIA	S _{Ds} (g)	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
ICC-ES AC156	2.0 2.5	1.0 0.0	1.5	3.20	2.40	1.68	0.68
Unit maintained structural integrity and remained functional per manufacturer requirement							



ATTACHMENT 2: TEST UNIT SUMMARY

UUT-C1 Discovery PET-CT System Gantry									
MANUFACTURER:		GE Healthcare							
IDENTIFICATION:		CT			PET				
Model No.:		5454001-170			5990025				
Serial No.:		10002			10002				
DESCRIPTION:		System component of the Discovery PET-CT System:							
MOUNTING:		Floor mounted using (11) – 5/8" dia GR 8 bolts.							
PROPERTIES:									
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)					
Width	Depth	Height	Weight (lb.)	Side/Side	Front/Back	Vert			
77.4	93.59	76	7855	8.6	8.1	14.7			
SHAKE TABLE TEST PARAMETERS									
TEST CRITERIA	S _{Ds} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)		
ICC-ES AC156	2.0 2.5	1.0 0.0	1.5	3.20	2.40	1.68	0.68		
Unit maintained structural integrity and remained functional per manufacturer requirement									



UUT-C2 Discovery PET-CT Power Distribution Box (PDB)									
MANUFACTURER:		GE Healthcare							
IDENTIFICATION:		Model No.: 5627940 Rev 2							
Serial No.:		ENG 1							
DESCRIPTION:		System component of the Discovery PET-CT System:							
MOUNTING:		Wall mounted using (4) – 1/4" dia. machine screws w/ (2) 1-1/4" O.D. x 5/16" I.D. fender washers at top and (2) standard washers at bottom and Hex Head nuts at back side of 1/4" steel backing plate.							
PROPERTIES:									
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)					
Width	Depth	Height	Weight (lb.)	Side/Side	Front/Back	Vert			
19.7	9.5	24.8	68	---	---	---			
SHAKE TABLE TEST PARAMETERS									
TEST CRITERIA	S _{Ds} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)		
ICC-ES AC156	2.0 2.5	1.0 0.0	1.5	3.20	2.40	1.68	0.68		
Unit maintained structural integrity and remained functional per manufacturer requirement									



ATTACHMENT 2: TEST UNIT SUMMARY

UUT-C3		Discovery PET-CT Chiller	
MANUFACTURER:		GE Healthcare	
IDENTIFICATION:		Lytron P/N: RC045J03YY3C017 REV B	
		Lytron Serial No.: 898088-01	
		GEHC P/N: 5582166 REV 06	
DESCRIPTION:		System component of the Discovery PET-CT System. Unit included enhancements to construction not found on then-standard production units. These enhancements installed at lab.	
MOUNTING:		Rigid Base (Floor) mounted using (4) – ½” dia GR 8 bolts using GE provided mounting brackets.	
PROPERTIES:			
DIMENSIONS (in.)			LOWEST RESONANT FREQUENCY (Hz.)
Width	Depth	Height	Weight (lb.)
21.375	27.75	31.875	313.5
		Side/Side	Front/Back
		25.9	10.6
		Vert	16.7
SHAKE TABLE TEST PARAMETERS			
TEST CRITERIA	S _{Ds} (g)	z/h	I _p
ICC-ES AC156	2.0 2.5	1.0 0.0	1.5
	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)
	3.20	2.40	1.68
Unit maintained structural integrity and remained functional per manufacturer requirement			



UUT-E1		Discovery IQ PET-CT Gantry	
MANUFACTURER:		GE Healthcare	
IDENTIFICATION:		CT Gantry	PET Gantry
Model:		5432539-22	5900025-20
Serial:		441940HM4	
DESCRIPTION:		System component of the Discovery IQ PET-CT System.	
MOUNTING:		Rigid Base (Floor) mounted using (10) – 5/8” dia GR 8 bolts.	
PROPERTIES:			
DIMENSIONS (in.)			LOWEST RESONANT FREQUENCY (Hz.)
Width	Depth	Height	Weight (lb.)
89	101	76	7387
		Side/Side	Front/Back
		10.4	9.0
		Vert	21.0
SHAKE TABLE TEST PARAMETERS			
TEST CRITERIA	S _{Ds} (g)	z/h	I _p
ICC-ES AC156	2.0 2.5	1.0 0.0	1.5
	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)
	3.20	2.40	1.68
Unit maintained structural integrity and remained functional per manufacturer requirement			

