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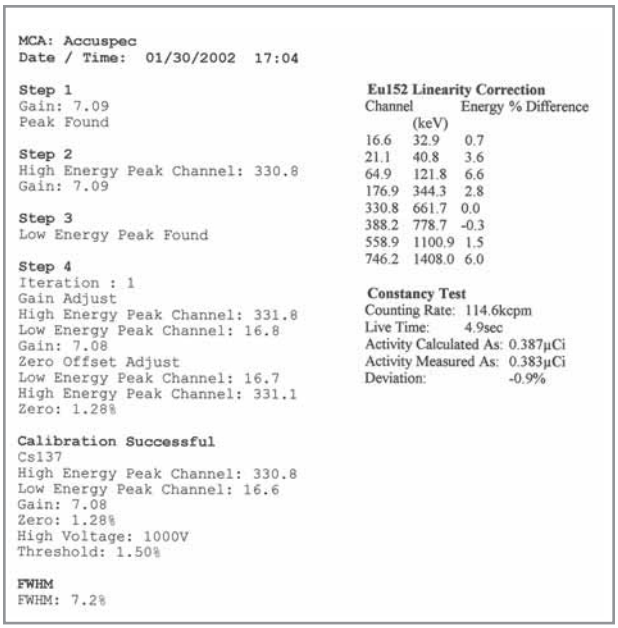
Captus® 3000 Reports

Auto Calibration For Well

The Autocalibrate module provides high voltage, zero offset and automatic gain adjustment; as well as a linearity correction and constancy test. Also included in QA are automatic chi-square and MDA calculation selections. Finally, the program has the ability to automatically perform efficiency calculation and storage for various isotopes.



MCA: Accuspec
Date / Time: 01/30/2002 17:04

Step 1
Gain: 7.09
Peak Found

Step 2
High Energy Peak Channel: 330.8
Gain: 7.09

Step 3
Low Energy Peak Found

Step 4
Iteration : 1
Gain Adjust
High Energy Peak Channel: 331.8
Low Energy Peak Channel: 16.8
Gain: 7.08
Zero Offset Adjust
Low Energy Peak Channel: 16.7
High Energy Peak Channel: 331.1
Zero: 1.28%

Calibration Successful
Cs137
High Energy Peak Channel: 330.8
Low Energy Peak Channel: 16.6
Gain: 7.08
Zero: 1.28%
High Voltage: 1000V
Threshold: 1.50%

FWHM
FWHM: 7.2%

Eu152 Linearity Correction

Channel	Energy (keV)	% Difference
16.6	32.9	0.7
21.1	40.8	3.6
64.9	121.8	6.6
176.9	344.3	2.8
330.8	661.7	0.0
388.2	778.7	-0.3
558.9	1100.9	1.5
746.2	1408.0	6.0

Constancy Test
Counting Rate: 114.6kcpm
Live Time: 4.9sec
Activity Calculated As: 0.387µCi
Activity Measured As: 0.383µCi
Deviation: -0.9%

Thyroid Uptake Report

In this module multiple TU protocols can be established utilizing I-123, I-131 or Tc-99m. The protocols can use a standard capsule method or allow the system to perform an automatic decay correction to the administered dose. The system will store detailed patient demographics, physician data and administered dose data. There is no limit to the number of uptakes that can be performed and the results will be reported with detailed count information and automatic percentage uptake calculations. Also, there are user defined normal values that will be compared to the uptake results and "flagged" when the results are out of range.

Patient: Smith , Bob

Demographic Data
Patient ID: 123456
DOB: 02/15/1959
Age: 51 Sex: Male
Physician: Dr. Dolittle
Protocol: I123
Technologist: TL

Administered Dosage
Isotope: I 123
Activity: 158.7 µCi
Date: 10/17/2001
Time: 10:48

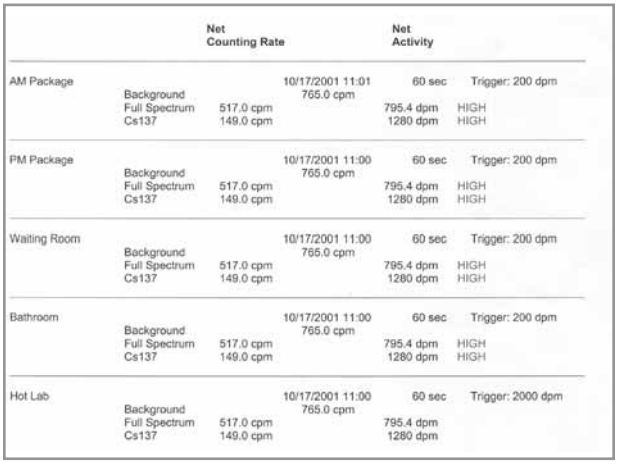
Dosage Data
Isotope: I 123
Lot #: 987654
Count Time: 300 secs
Probe Distance: 25 cm

Calibrated Dosage
Activity: 150.0 µCi
Date: 10/17/2001
Time: 12:00

	Average cpm	Count 1 cpm	Count 2 cpm
Dosage Counted			
Room Background 10/17/2001 10:49	10		
Capsule # 1:	12752	12752	
Net Capsule Counts 10/17/2001 10:48	12742		
Uptake At 4 Hours			
Uptake Time: 10/17/2001 14:49			
Patient Background:	1275	1275	
Patient Thyroid:	2550	2550	
Patient Net Counts:	1275		
Current Capsule Counts:	10322		
Uptake = 12.4 %			
Uptake At 23 Hours			
Uptake Time: 10/18/2001 09:49			
Patient Background:	1275	1275	
Patient Thyroid:	2550	2550	
Patient Net Counts:	1275		
Current Capsule Counts:	3812		
Uptake = 33.5 %			

Wipe History

The highly versatile wipe test module will allow users to establish as many locations as needed and to arrange the locations into either pre-defined or user-defined groupings. The program will perform an automatic peak and isotope identification of wipe results in order to advise the user of the type contamination encountered. There are pre-set trigger levels loaded or the user can define their own trigger levels, either way the results will flag any wipe that exceeds a trigger. Finally, the system will maintain a history of wipe results that can be printed as a whole or in part.



		Net Counting Rate		Net Activity		
AM Package			10/17/2001 11:01		60 sec	Trigger: 200 dpm
	Background		765.0 cpm			
	Full Spectrum	517.0 cpm		795.4 dpm	HIGH	
	Cs137	149.0 cpm		1280 dpm	HIGH	
PM Package			10/17/2001 11:00		60 sec	Trigger: 200 dpm
	Background		765.0 cpm			
	Full Spectrum	517.0 cpm		795.4 dpm	HIGH	
	Cs137	149.0 cpm		1280 dpm	HIGH	
Waiting Room			10/17/2001 11:00		60 sec	Trigger: 200 dpm
	Background		765.0 cpm			
	Full Spectrum	517.0 cpm		795.4 dpm	HIGH	
	Cs137	149.0 cpm		1280 dpm	HIGH	
Bathroom			10/17/2001 11:00		60 sec	Trigger: 200 dpm
	Background		765.0 cpm			
	Full Spectrum	517.0 cpm		795.4 dpm	HIGH	
	Cs137	149.0 cpm		1280 dpm	HIGH	
Hot Lab			10/17/2001 11:00		60 sec	Trigger: 2000 dpm
	Background		765.0 cpm			
	Full Spectrum	517.0 cpm		795.4 dpm		
	Cs137	149.0 cpm		1280 dpm		