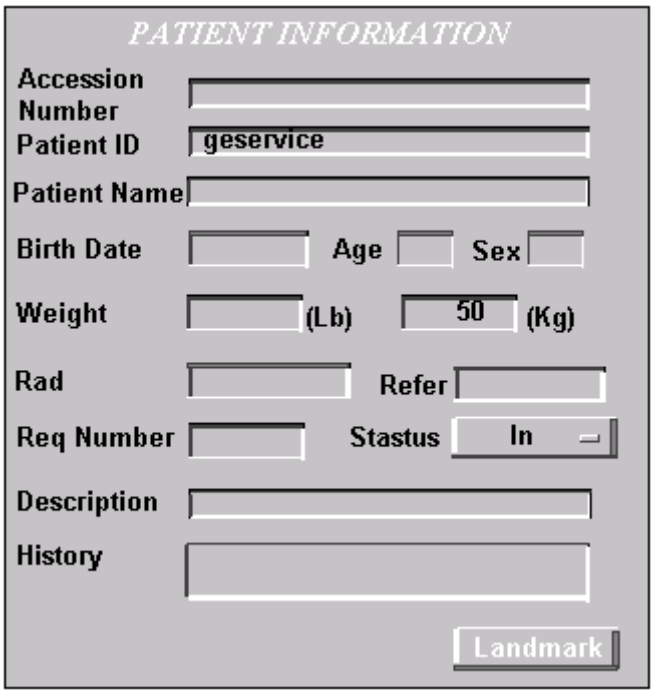
TABLE OF CONTENTS

1. Scan Parameter Setting

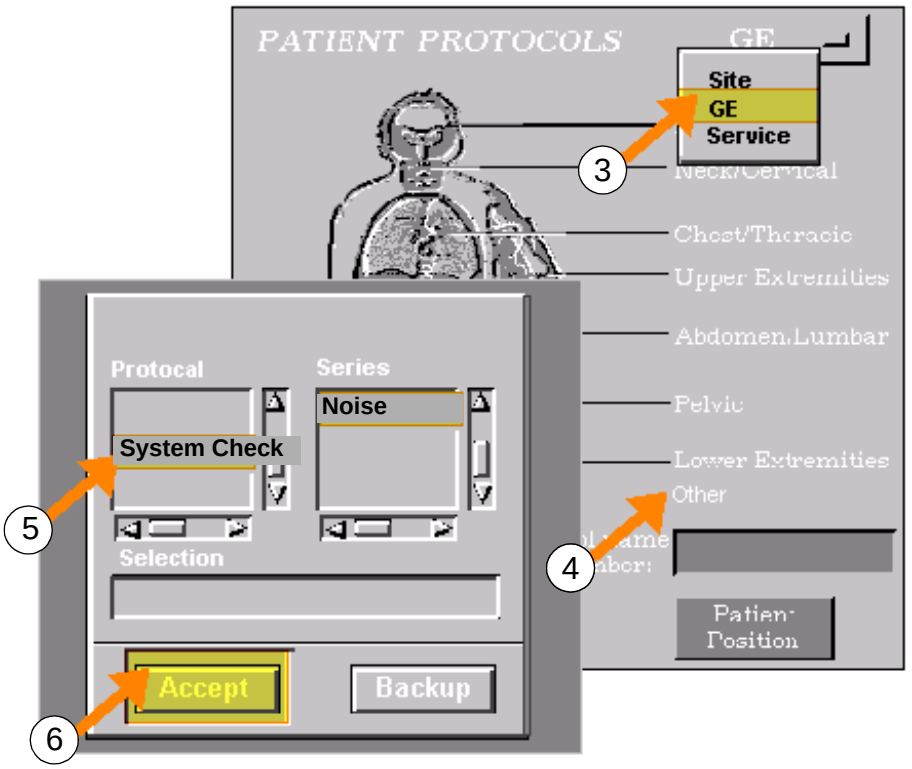
1. Click **[New Pt]**.
2. Input the following data in "patient information".
   - •Patient Data: geservice
   - •Weight: 50(Kg)



PATIENT INFORMATION
ILLUSTRATION 1

1. Scan Parameter Setting (continued)

3. Choose GE.
4. Click **Other**. Protocol window comes Up.
5. Select **[System Check Head]** from protocol.
   Select **[Noise]** from series.
6. Select **[Accept]**.)



PATIENT INFORMATION
ILLUSTRATION 2

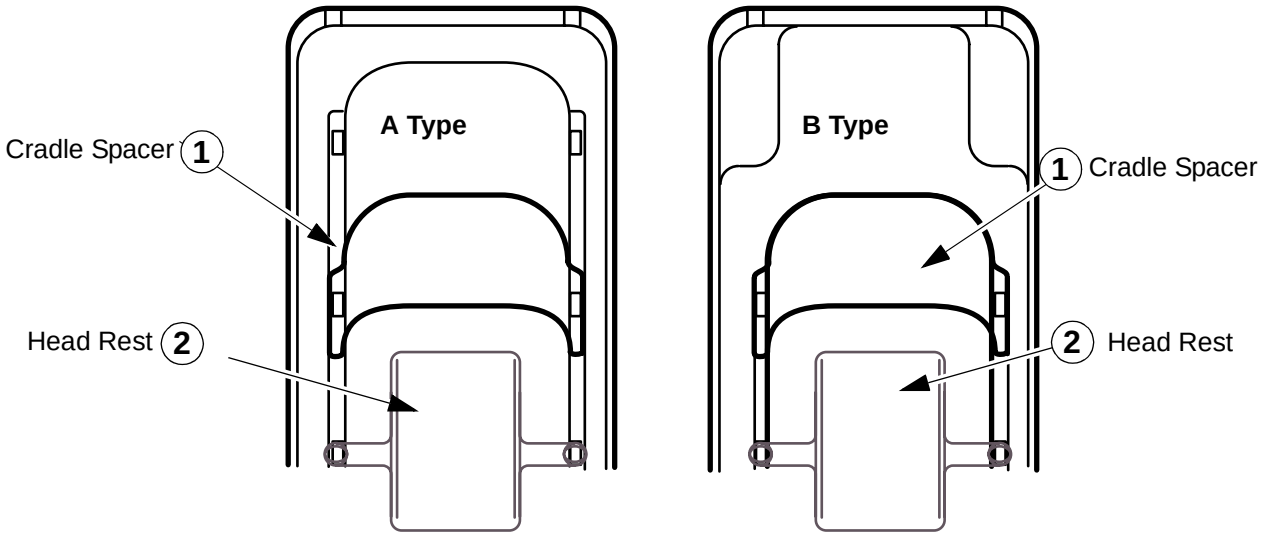
7. Select Save Series.

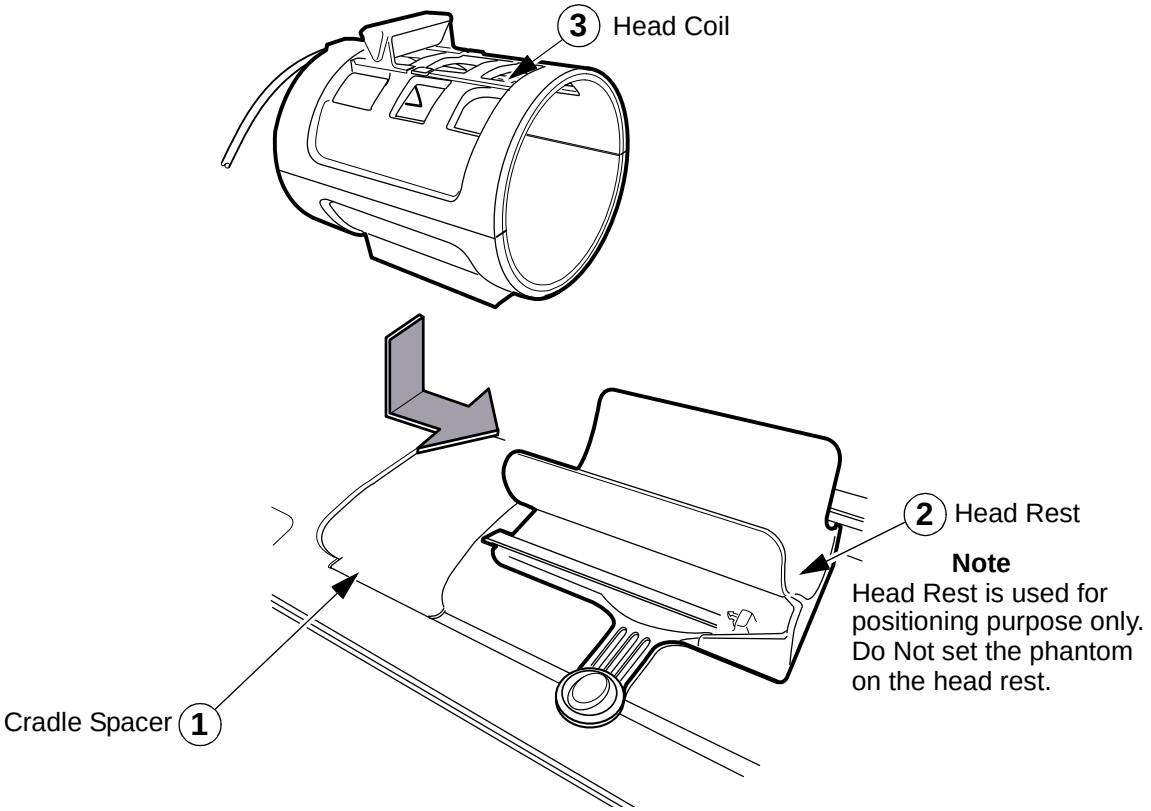
SAVE SERIES
ILLUSTRATION 3

2. Phantom Setting

1. Set cradle spacer to cradle.
2. Set head rest onto cradle.
   (Head Rest is used for positioning porpose only. Do Not set the phantom on the head coil.)
3. Set head coil to head rest..

NOTE:There are two type of table as following illustration.

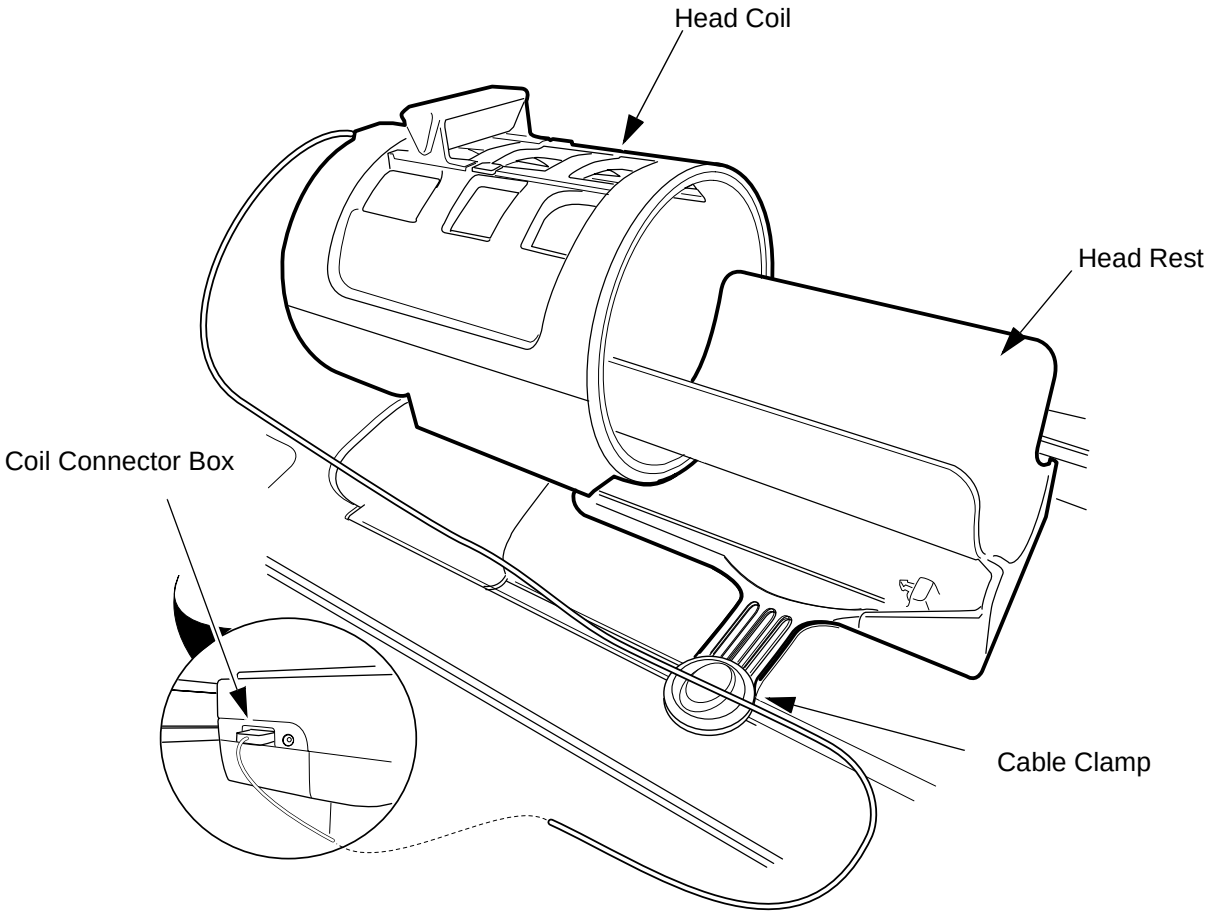




HEAD COIL SETTING 1
ILLUSTRATION 4

2. Phantom Setting(Continued)

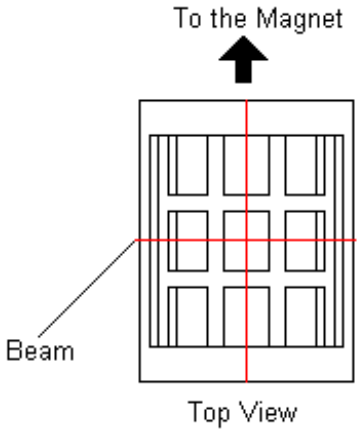
4. Connect the coil connector box to table connector port.
5. Attach the coil cable to cable clamp of head rest.



HEAD COIL SETTING 2
ILLUSTRATION 5

2. Phantom Setting(Continued)

6. Advance the cradle to the position where the A-light beam hits the center of coil.



ALIGNMENT LIGHT
ILLUSTRATION 6

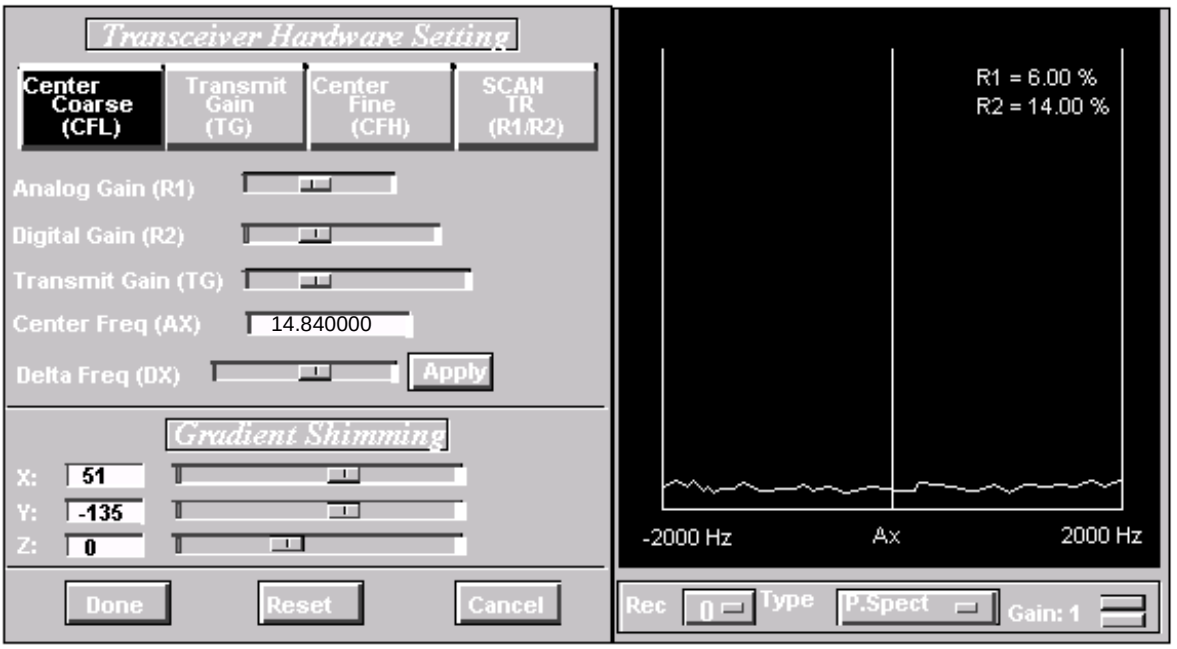
7. At front enclosure on scanner, press LANDMARK, then MOVE TO SCAN.

3. Scan

8. Select **[Manual Prescan]**.

MANUAL PRESCAN
ILLUSTRATION 7

9. Set TG=1, R1=13, R2=15. Then, set Center Frequency to “14.840000”.



MANUAL PRESCAN
ILLUSTRATION 8

10. Select **[Scan]**..

SCAN
ILLUSTRATION 9

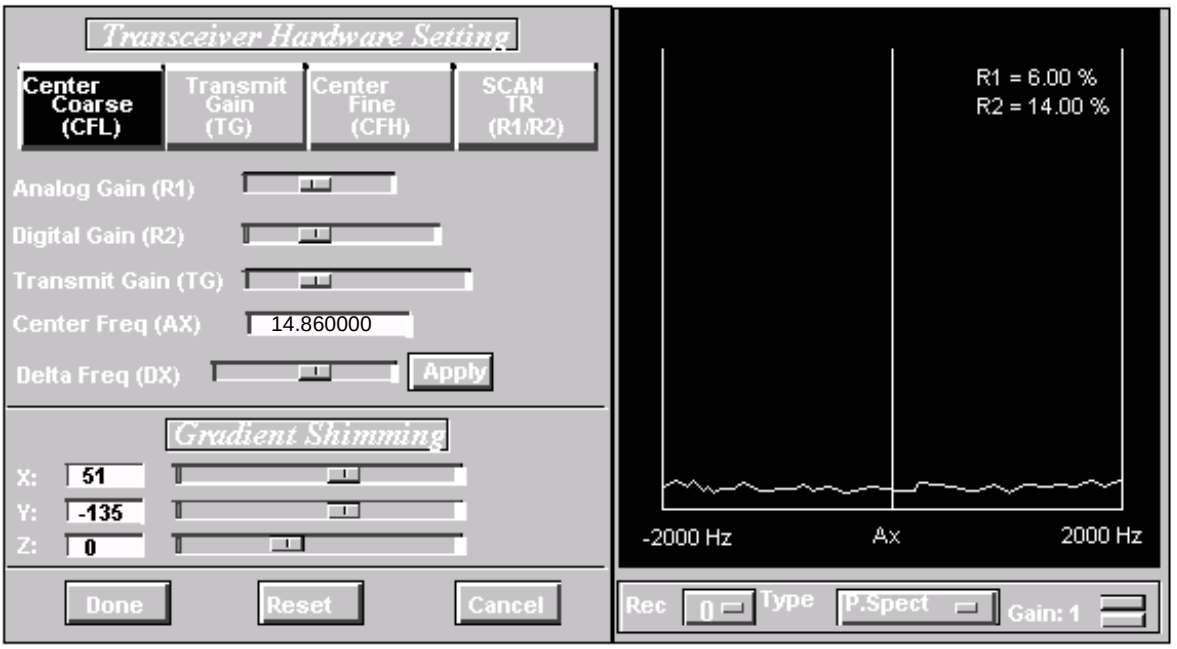
11. Verify that scanning has been started.

3. Scan (continued)

12.Select **[Manual Prescan]**.

MANUAL PRESCAN
ILLUSTRATION 10

13.Set TG=1, R1=13, R2=15. Then, set Center Frequency to “14.860000”.



MANUAL PRESCAN
ILLUSTRATION 11

14.Select **[Scan]**..

SCAN
ILLUSTRATION 12

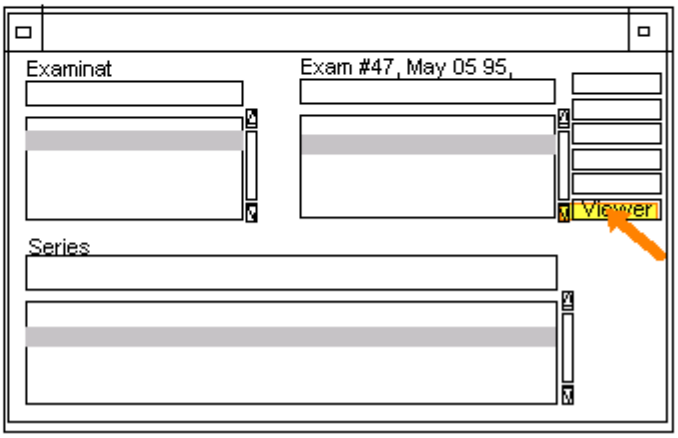
15.Verify that scanning has been started.

4. Data Analysis

1. Open the Image.

1. Select [Advantage Windows] Icon.

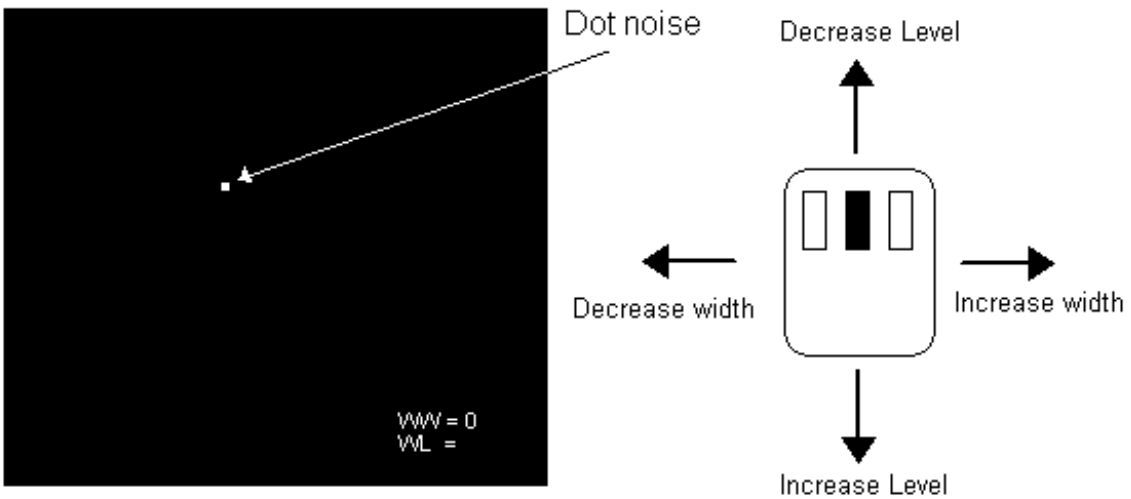
2. Select "Exam", "Series", and "Image" from the patient list and then press [Viewer].



OPEN IMAGE
ILLUSTRATION 13

2. Measure Mean Value (Ms) of the brightest dot.

1. Set WW to 0.
2. Increase WL until only the one brightest dot can be seen on the Image.
3. Record the value of WL as Ms.

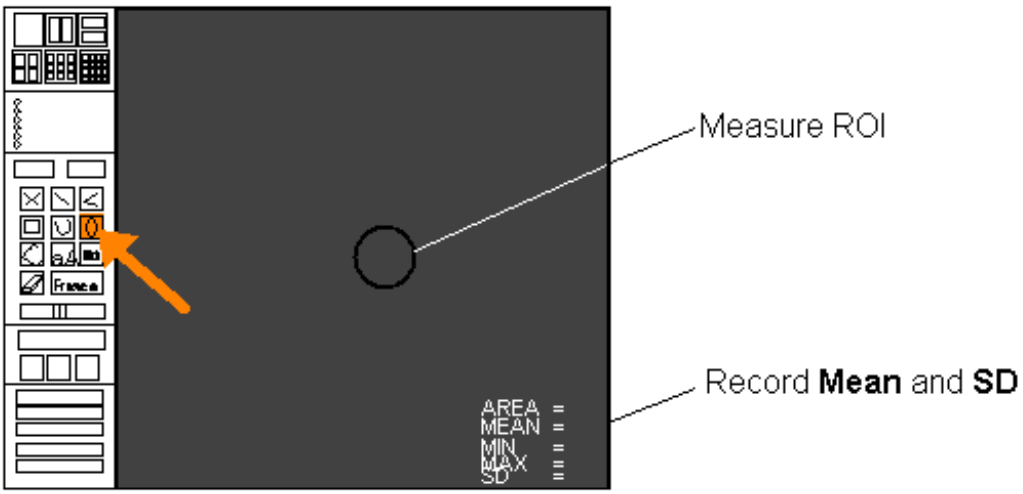


DOT NOISE
ILLUSTRATION 14

4. Data Analysis (continued)

3. Measure Mean Value of the center of the Image(Mn) using circular cursor.

1. Select Elipse  from Graphic Menu.
2. Set the circular cursor to the center of the phantom. Be sure that there is no bright part inside of the circle.
3. ROI (Region of Interest) comes up to the right bottom of the Image automatically.
4. Record the SD and Mean value of ROI.



BACKGROUND NOISE
ILLUSTRATION 15

4. Verify the following formula.

$$Ms \leq Mn \times 10$$

Table 1:

fc	Ms	Mn
14.840000		
14.860000		

Revision History

Rev	Date	Auther	Primary Reasons For Change
0	Jan 26, 2000	Y. Masumo	Initial Release
1	May 15, 2001	Y. Masumo	Head Coil Setting is updated.
2	Oct 22, 2001	Y. Masumo	Page 5: Added the purpose of Head Rest. Page 7 & Page 8: Corrected the center frequency values.