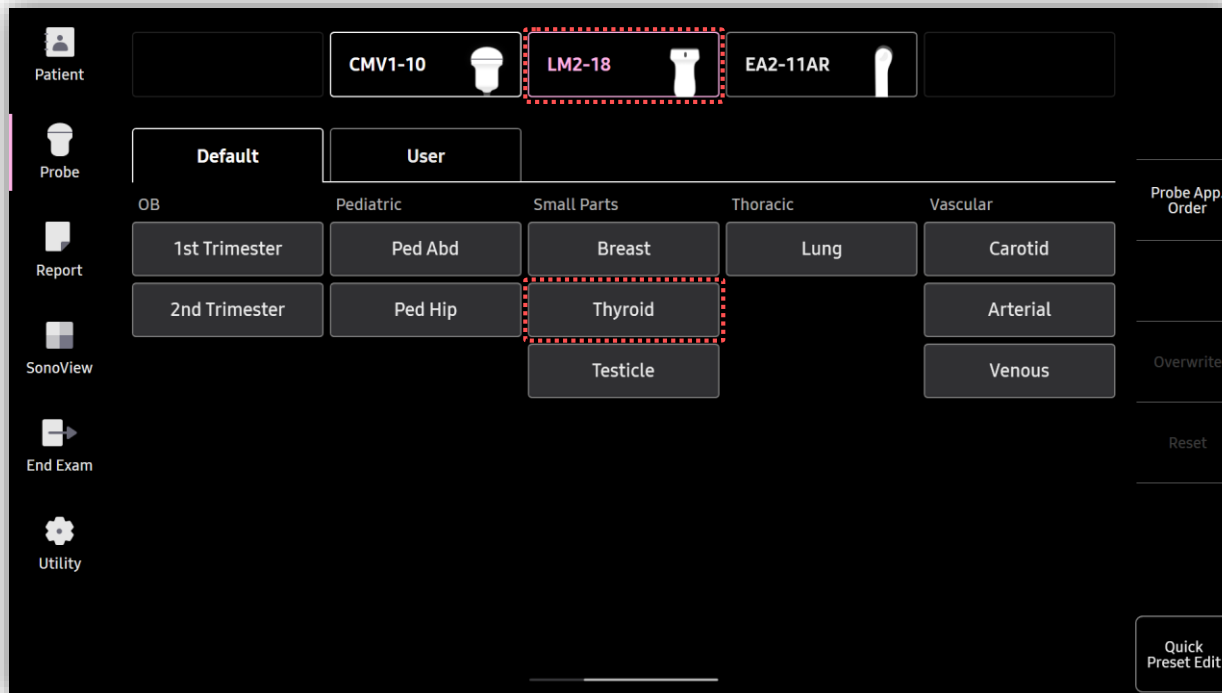


S-Detect™ *for Thyroid*

HERA Z20 Quick Guide



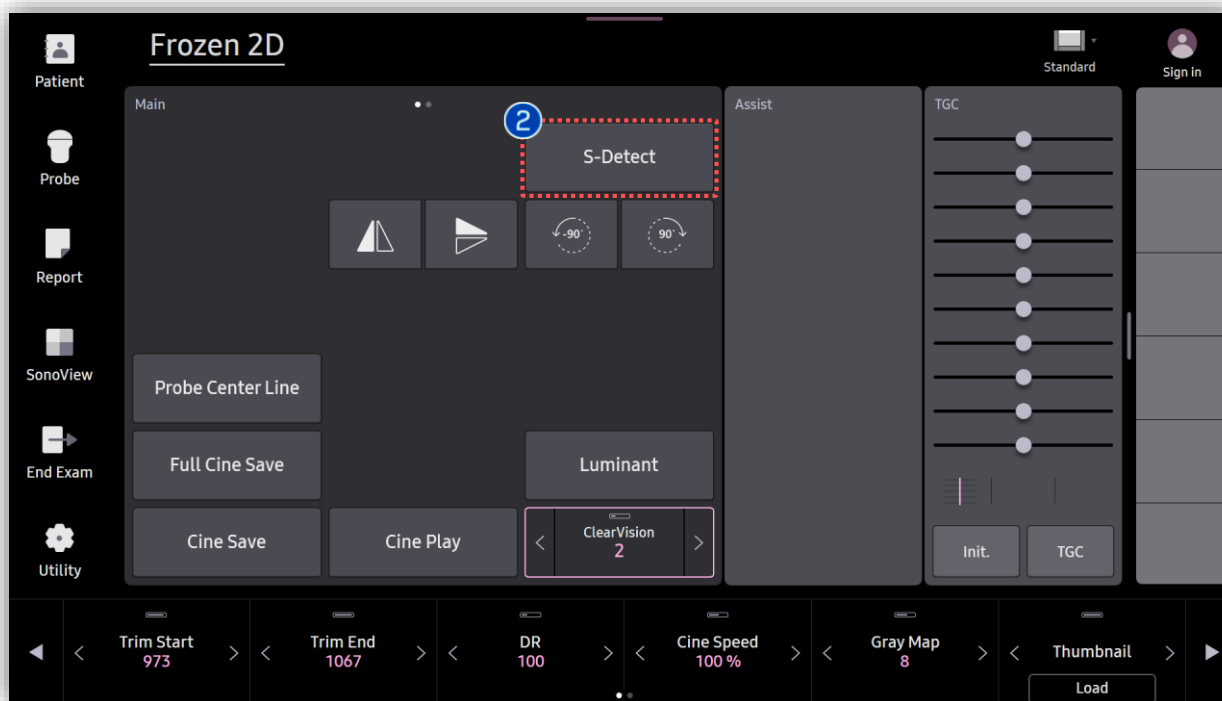
1. Probe and Preset



※ S-Detect™ for Thyroid can be operated under the following conditions :

Probe	Application
LM2-18	Small Parts (Thyroid)

2. Start S-Detect™ for Thyroid



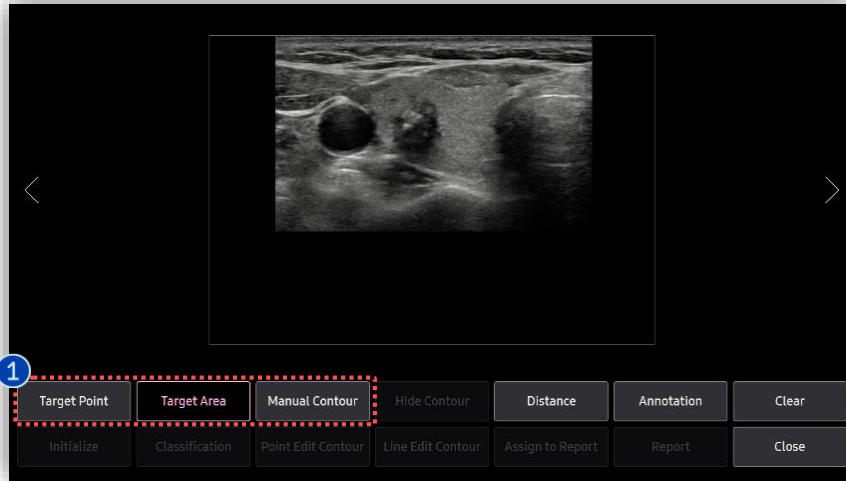
① Image Acquisition

Acquire the image of the lesion in 2D mode and press the [Freeze] button.

② Start S-Detect

Tap [S-Detect] on the touch screen.

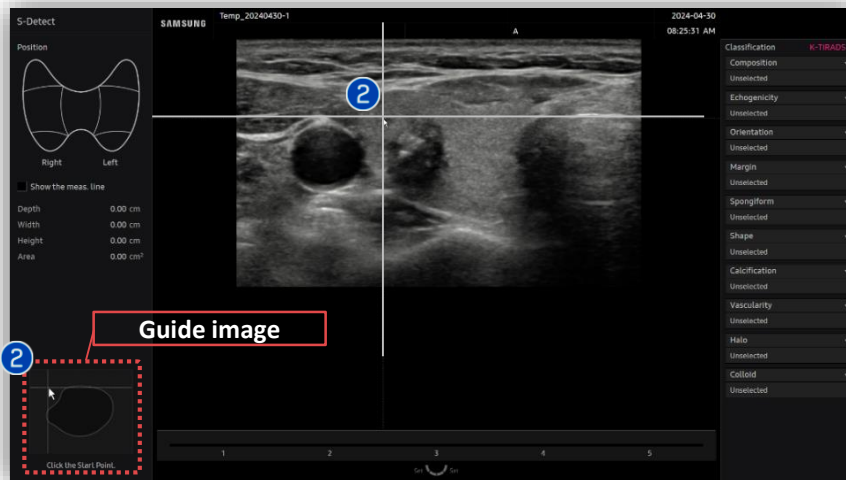
3. Designate the ROI (1)



[Touch Screen]

1 Detection method

- Target Point
- Target Area (Default mode)
- Manual Contour



[Monitor Screen]

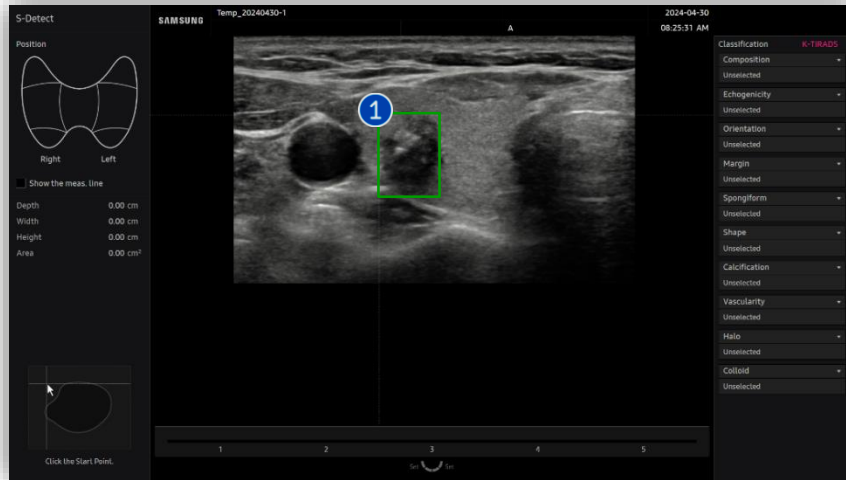
2 Draw the ROI

When [Target Area] is selected, two guide lines will appear.

The guide image tells you how to designate the area enclosing a suspicious mass.

Press the [Set] button to start drawing the ROI from the upper left corner of lesion.

3. Designate the ROI (2)



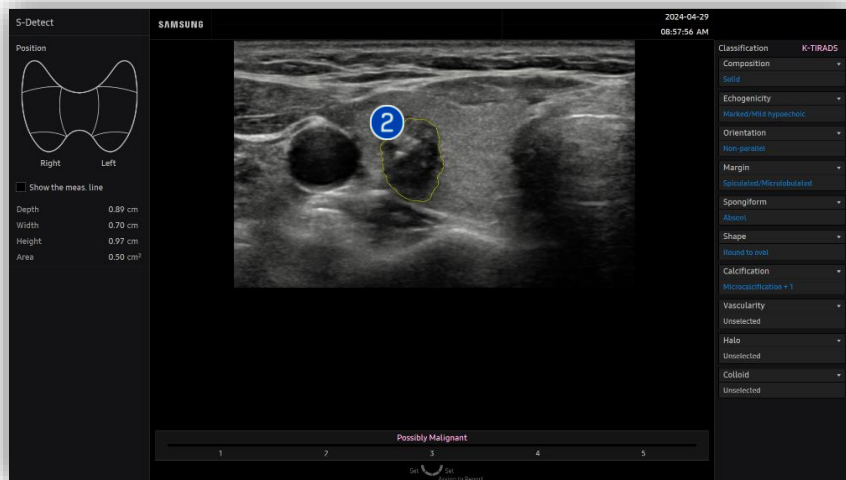
[Monitor Screen]

1 Draw the ROI

Adjust the guidelines to make the rectangle overlap the boundaries of suspected lesion and click [Set] button to finish.

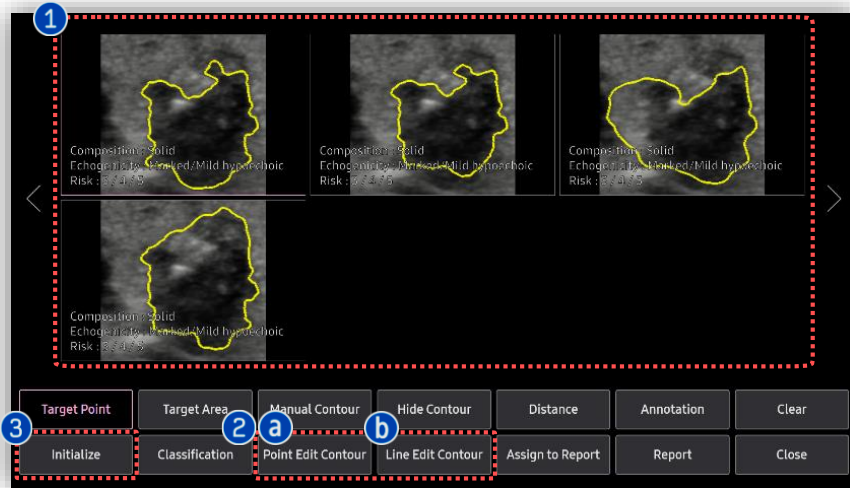
2 Detected boundary

After drawing the ROI, lesion boundary is automatically detected and is displayed in yellow contour.



[Monitor Screen]

4. Select the Candidates and Edit

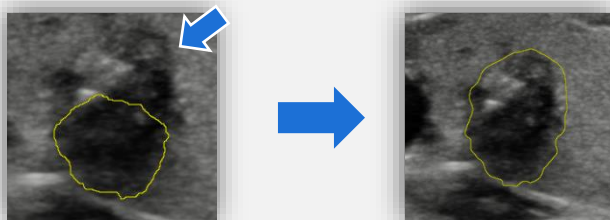


[Touch Screen]

<p>1 Candidates</p>	<p>Available candidate images are provided (up to 6) on the touch screen so that you can choose the most suitable image.</p>
<p>2 Edit Contour</p>	<p>If necessary, you can edit the contour of selected candidate by [Point Edit Contour] or [Line Edit Contour] on the touch screen.</p>
<p>3 Initialize</p>	<p>To reset all results and re-specify, tap [Initialize] button on the touch screen.</p>

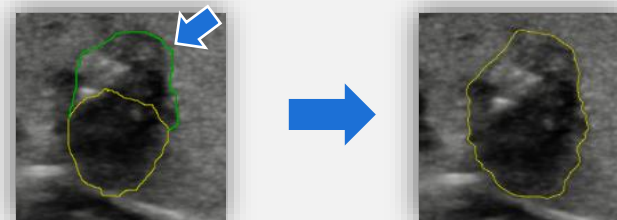
a Point Edit Contour

Locate the cursor close to the part of contour that you want to modify and then press [Set] button.

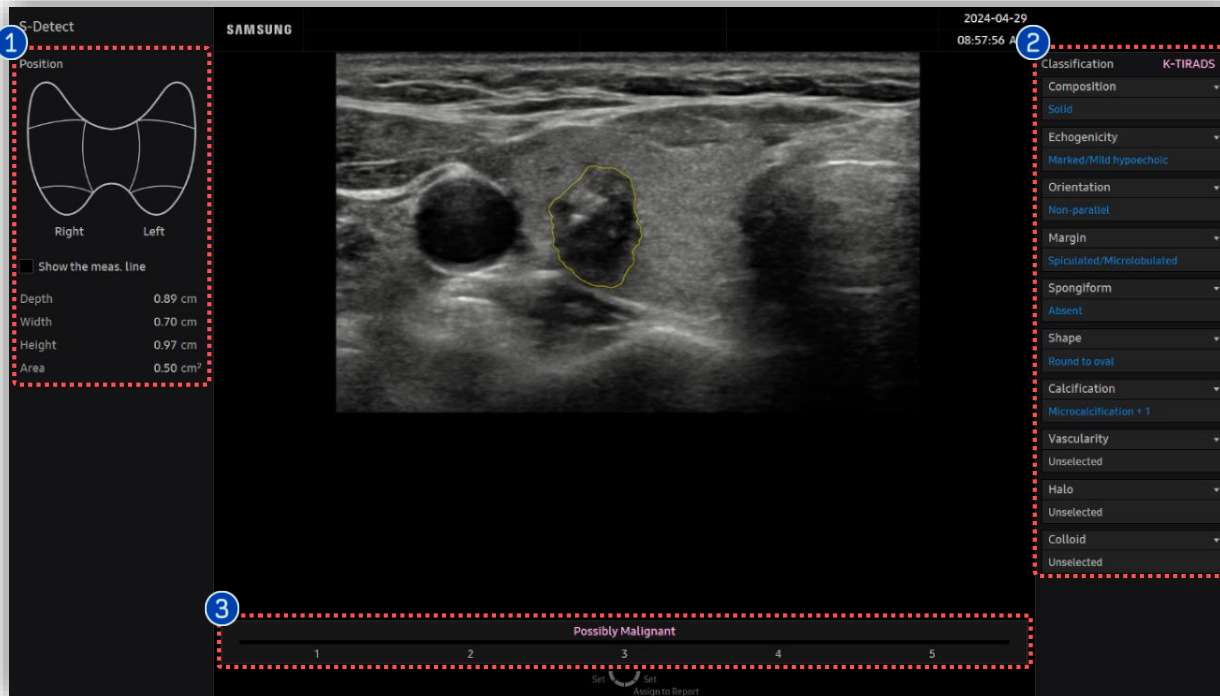


b Line Edit Contour

Draw the new boundary (green color) manually using the trackball and press the [Set] button.



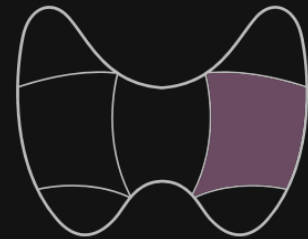
5. Result Page



① Location Information Area	Provides information about the location and size of the lesion.
② Classification	Provides the TIRADS Lexicon Classification of the lesion.
③ Description	S-Detect only suggests whether the lesion tends to be malignant or benign.

6. Result Page: Mark the Position

1 Position



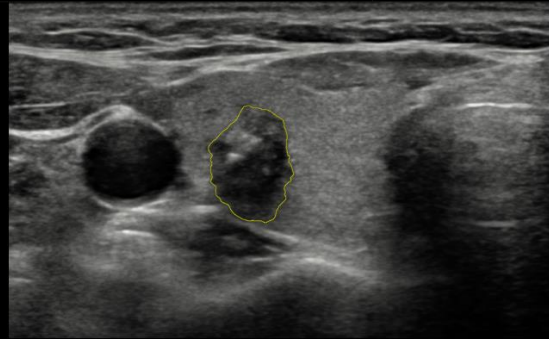
Right Left

Show the meas. line

2

Depth	0.87 cm
Width	0.69 cm
Height	0.99 cm
Area	0.50 cm ²

S-Detect SAMSUNG 2024-04-29 08:59:13 AM



Position

Right Left

Show the meas. line

Depth	0.87 cm
Width	0.69 cm
Height	0.99 cm
Area	0.50 cm ²

Classification K-TIRADS

Composition Solid

Echogenicity Marked/Mild hypoechoic

Orientation Non-parallel

Margin Spiculated/Microlobulated

Spongiform Absent

Shape Round to oval

Calcification Microcalcification + 1

Vascularity Unselected

Halo Unselected

Colloid Unselected

Intermediate suspicion

1 2 3 4 5

Set Assign to Report

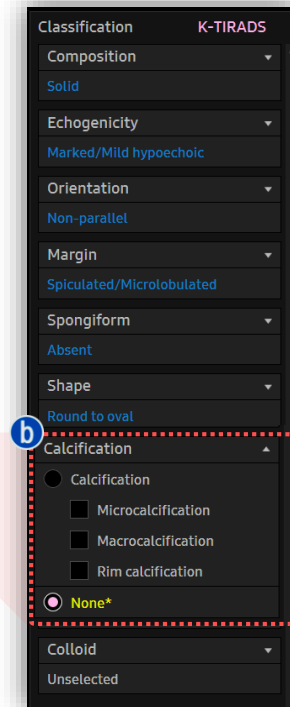
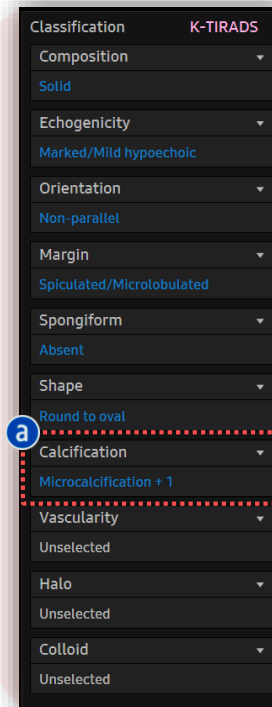
1 Position

Select the location of the lesion on the thyroid body marker and press the [Set] button.

2 Information of lesion

Depth, Width, Height and Area are automatically displayed.

7. Result Page: Edit the Classification (1)



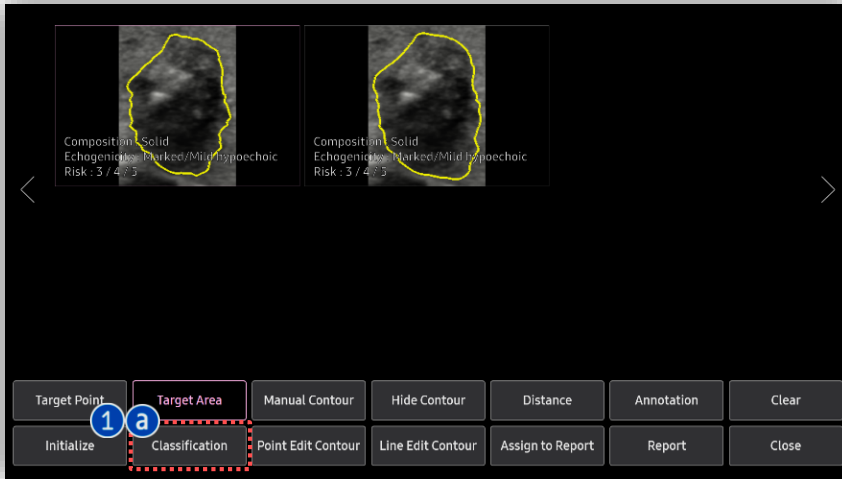
★ Tips

7 Classifications (blue color) are automatically provided.
3 Classifications (white color) are 'Unselected', so it can be selected manually by users.

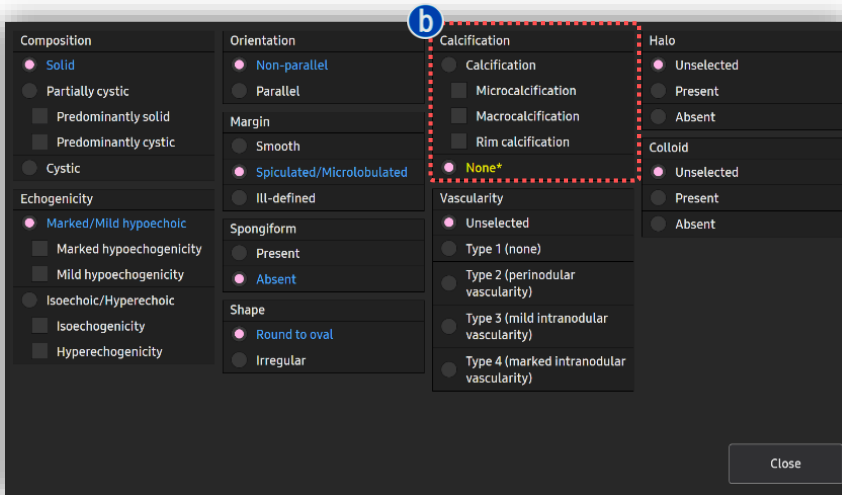
1 Classifications

- a** Click the title of classification that you want to modify.
- b** Edit the result. Modified classification is presented in yellow color.

7. Result Page: Edit the Classification (2)



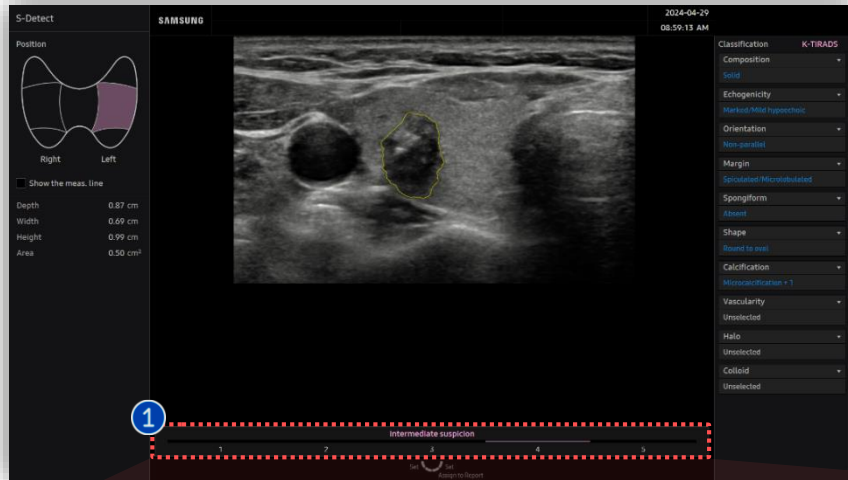
[Touch Screen]



[Touch Screen]

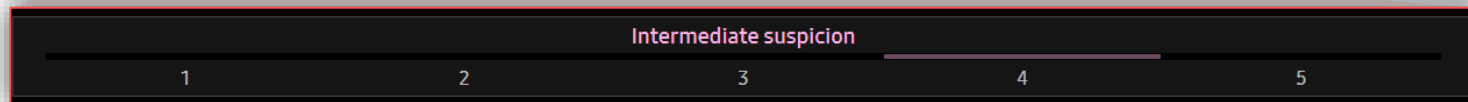
- 1 Classifications
- a Tap the [Classification] button on the touch screen.
- b Edit the result.
Modified classification is presented in yellow color.

8. Result Page: Description and Score



1 TIRADS
score

Designate the specific TIRADS Assessment score (1 ~ 5) on the bottom of the screen to make the final diagnosis.



9. Assign to Report



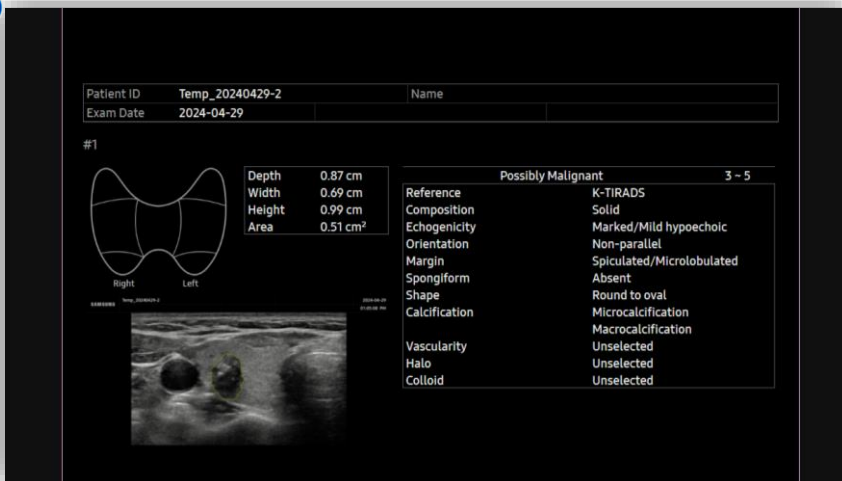
[Touch Screen]

1 Assign to Report

If you want to add the S-Detect results to the report, tap [Assign to Report] button on the touch screen.

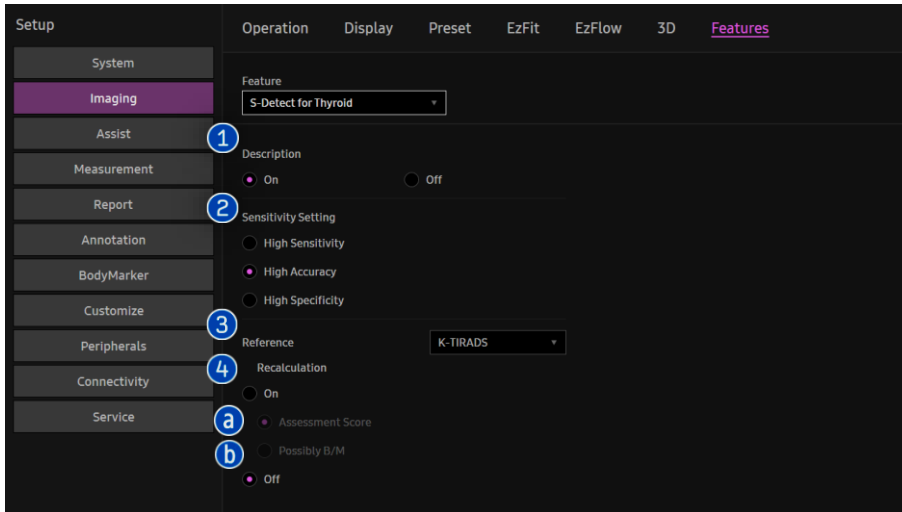
2 Report

Tap the [Report] button on the touch screen to review the result of S-Detect.



[Monitor Screen]

* Appendix – Setup



① Description	Turn on or off the description on the result page.
② Sensitivity Setting	Select the sensitivity of S-detect.
③ Reference	Select the reference system, among 'K-TIRADS', 'EU-TIRADS', 'ATA', 'BTA' or 'ACR TIRADS.'
④ Recalculation	Select whether you want recalculation when there is an edit in the classification. When recalculation is on, you can select to calculate the assessment score or just show whether its possibly benign/malignant. a Assessment Score – Classifies the lesion with assessment score b Possibly B/M – Indicates whether the lesion is possibly benign or malignant

★ Tips

You can edit the settings for S-detect in the Setup page.

Utility → Setup → Imaging → S-Detect → S-Detect for Thyroid

- The features mentioned in this document may not be commercially available in all countries. Due to regulatory reasons, their future availability cannot be guaranteed.
- Do not distribute this internal document to customers unless relevant regulatory and legal affairs officers approve such distribution.
- This product is a medical device, please read the user manual carefully before use.
- This document is provided to help you understand the feature.
- This User Quick Guide is based on HERA Z20 V1.00
- Disclaimer: Some Images in this content were obtained from other system.

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