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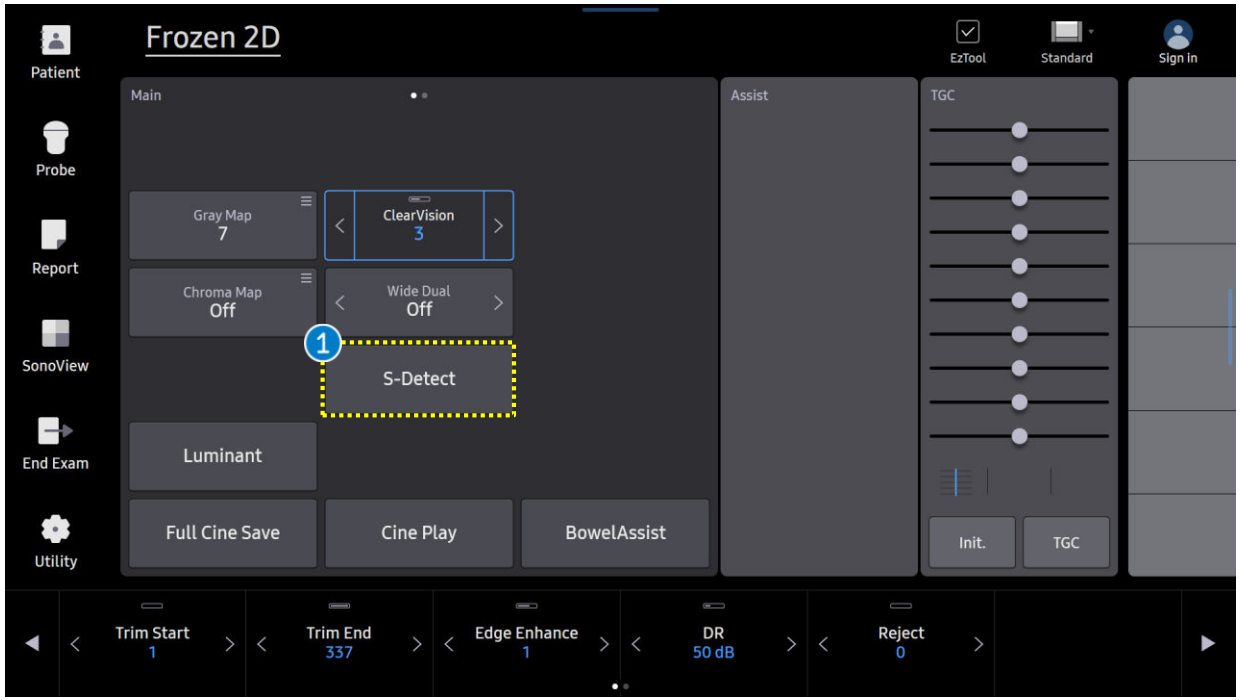
S-Detect™ for Thyroid

R20 Quick Guide

Produced by Clinical Training Center / SAMSUNG MEDISON CO.,LTD

1. Start S-Detect™ for Thyroid



1 Start S-Detect	Tap [S-Detect] on the touch screen.

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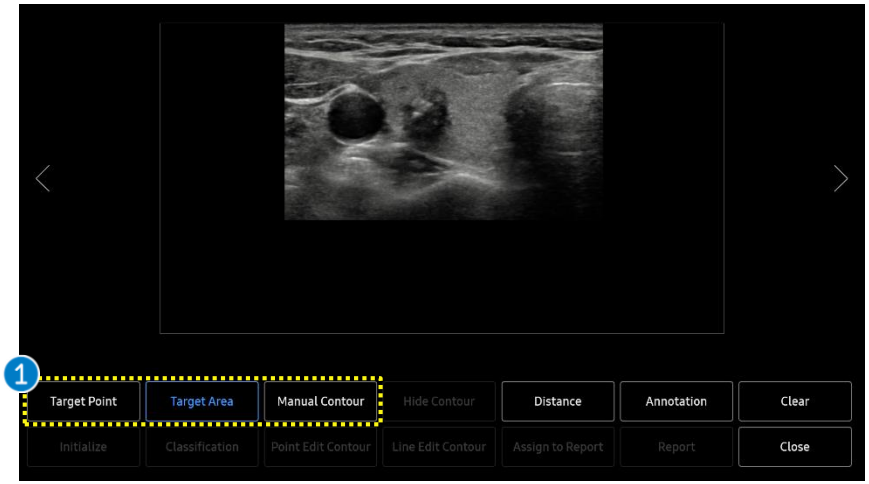
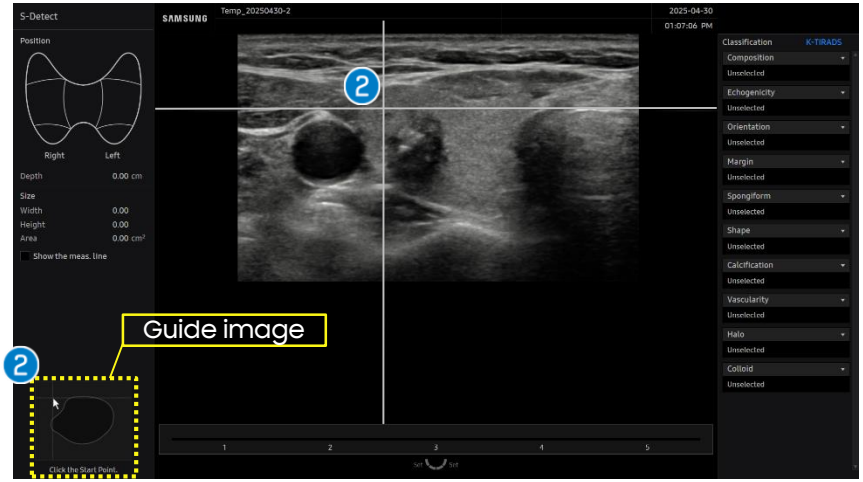
2. Designate the ROI (1)



❶ Detection method	▪ Target Point ▪ Target Area (Default) ▪ Manual Contour



❷ Draw the ROI	When the [Target Area] is selected, two guide lines will appear. A 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 side of the lesion.

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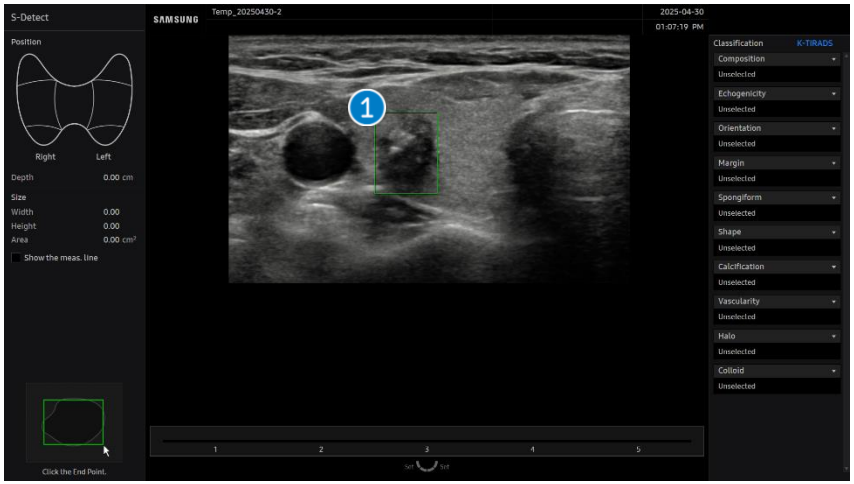
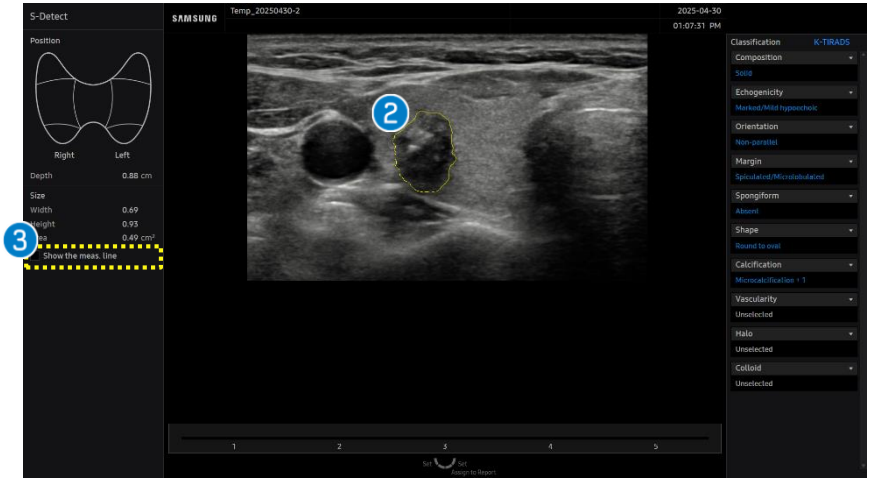
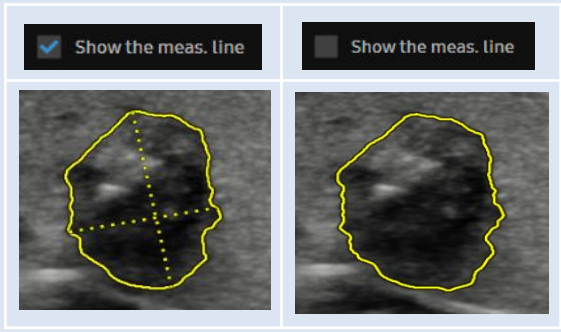
2. Designate the ROI (2)





❶ Draw the ROI	Adjust the guidelines to make the rectangle overlap the boundary of the suspected lesion and click the [Set] button to finish.
❷ Detected boundary	After drawing the ROI, lesion boundary is automatically detected and displayed in green contour.
❸ Show the meas. line	It is to display the measurement (width and height) of the lesion. 

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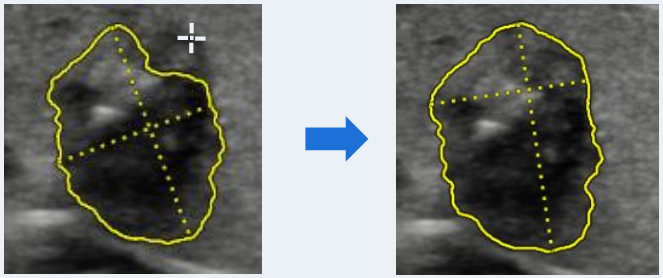
3. Select the Candidate and Edit

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

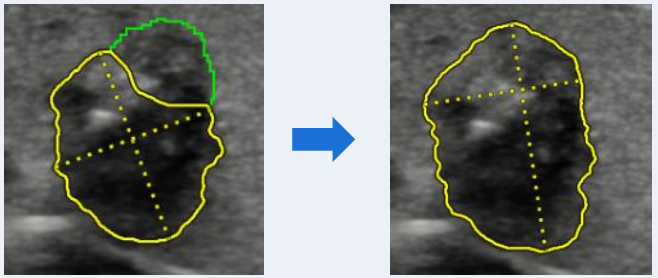
a Point Edit contour

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



b Line Edit contour

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



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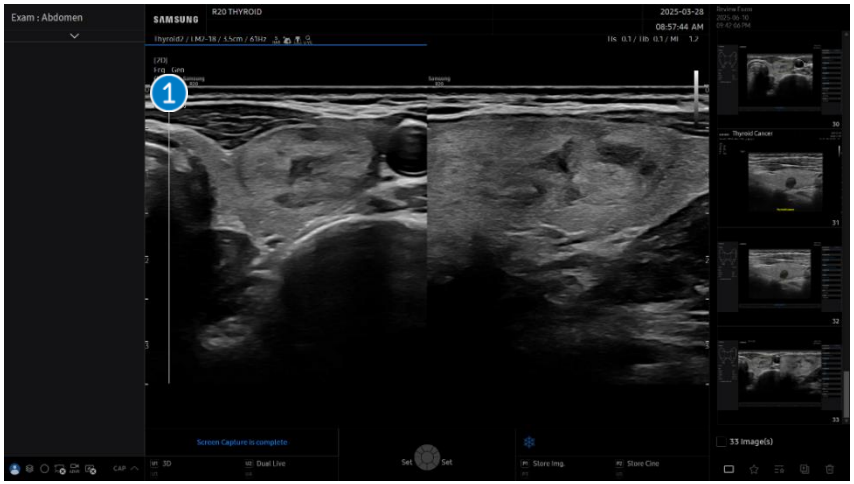
4. Dual - Volume Measurement (1)



① Dual scan	Scan two planes of the lesion using dual mode.
② S-Detect	Press the [S-Detect] button on the touchscreen to enter S-Detect.

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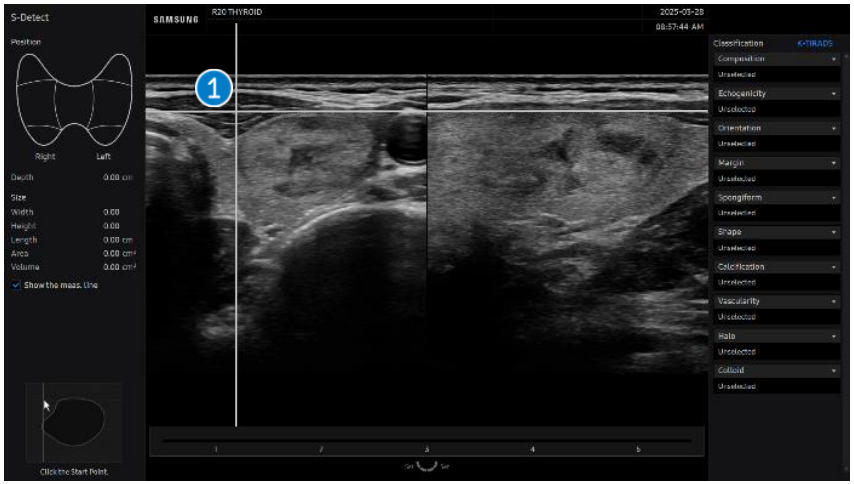
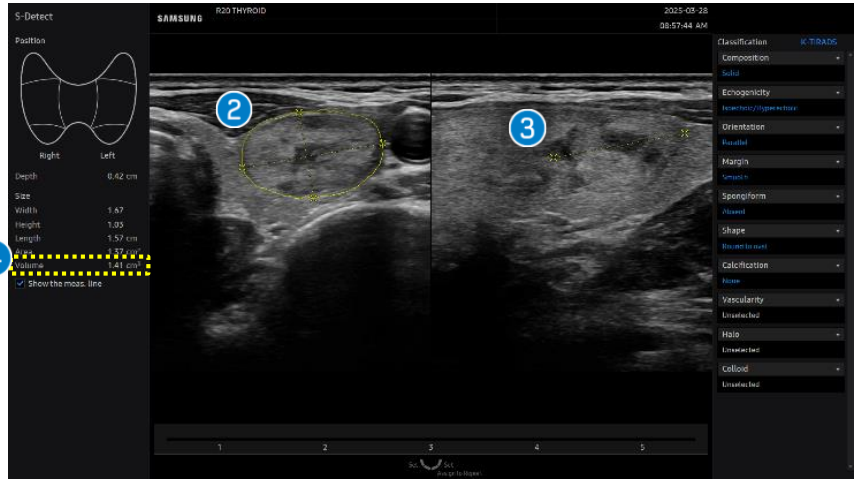
4. Dual - Volume Measurement (2)





❶ Target Point	Press the [Set] button to start drawing the ROI from the upper left side of the lesion.
❷ Detect the boundary	Lesion boundary is automatically detected and displayed as a yellow contour.
❸ Caliper	On the side with unmeasured lesion, a caliper would show up. Using the [Set] key and the trackball, measure the length.
❹ Volume	An additional result of the volume will be calculated.

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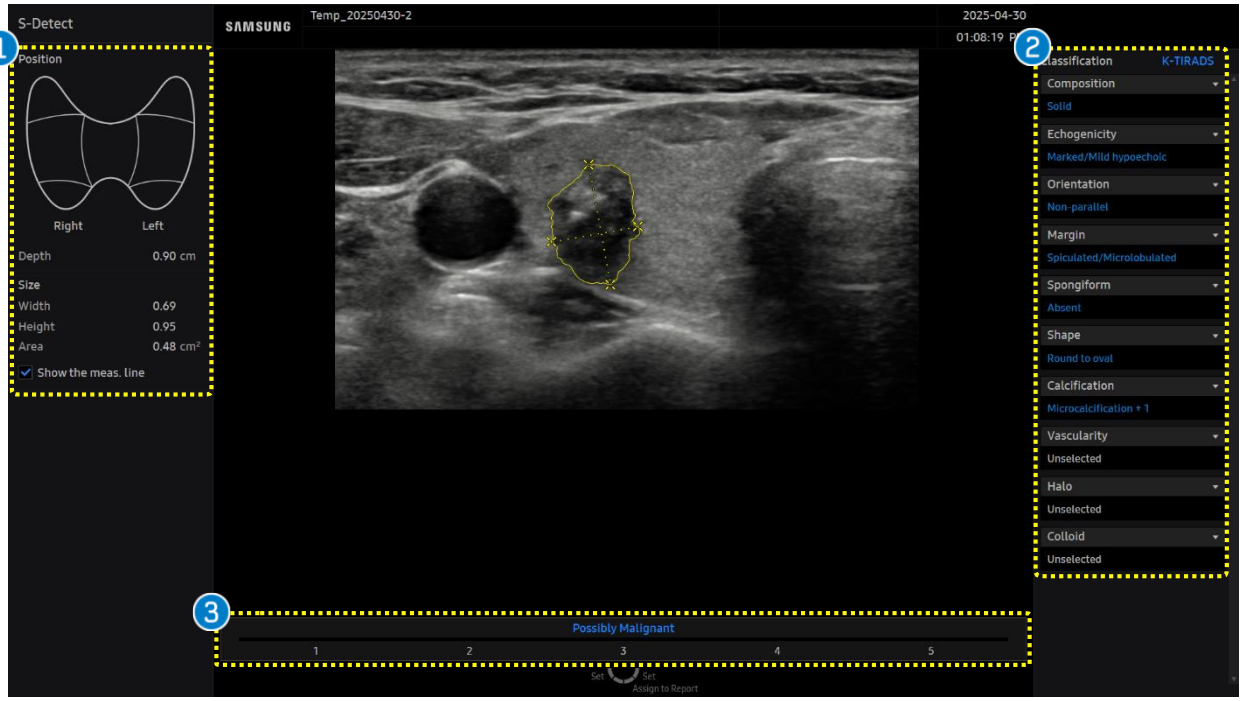
5. Result page



❶ Location Information Area	Provides information about the location and size of the lesion.
❷ Classification	Provides the Lexicon Classification following the designated reference on Setup. Blue text of classifications - automatically provided. White text of classifications - not specified automatically, so it can be chosen manually by users.
❸ Description	S-Detect only suggests whether the lesion tends to be malignant or benign.

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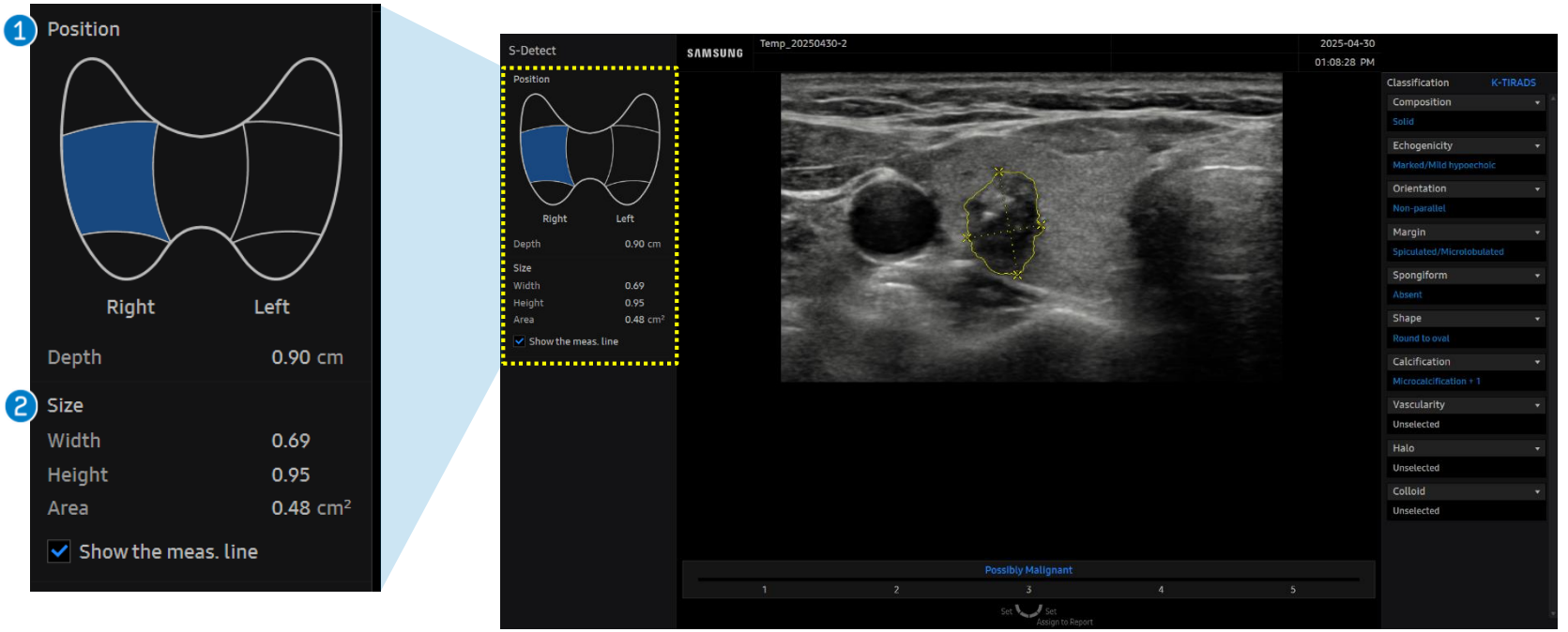
6. Result page: Mark the Position



1 Position	Select the location of the lesion on the thyroid diagram and press the [Set] button. Depth of the lesion is automatically displayed under the diagram.
2 Size of lesion	The Width, Height and Area are automatically displayed.

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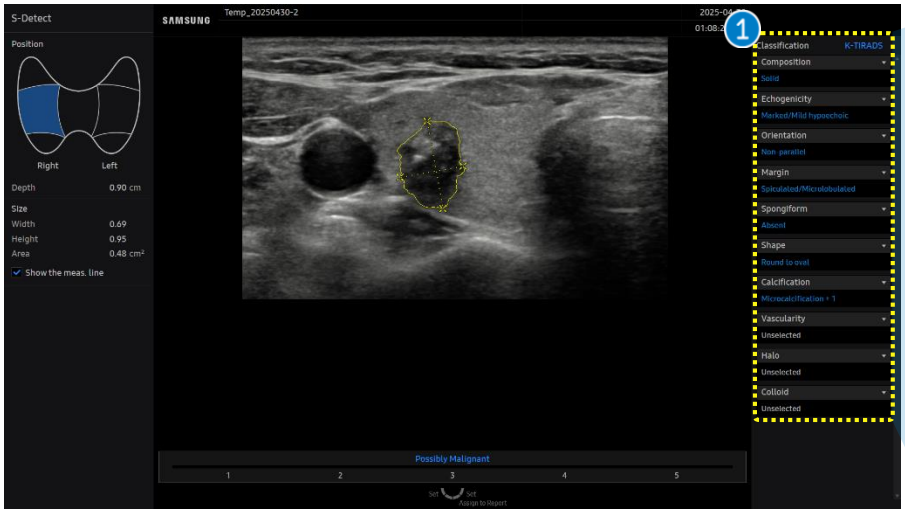
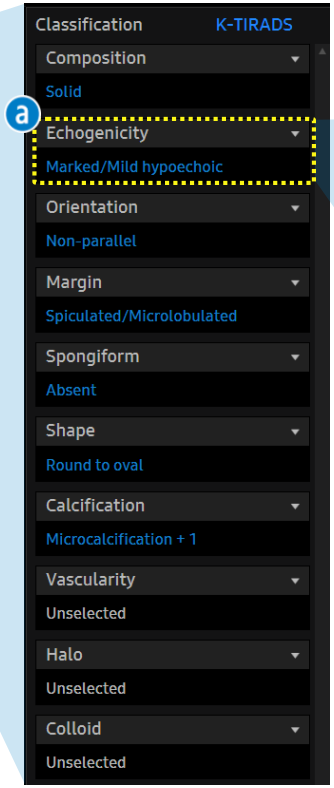
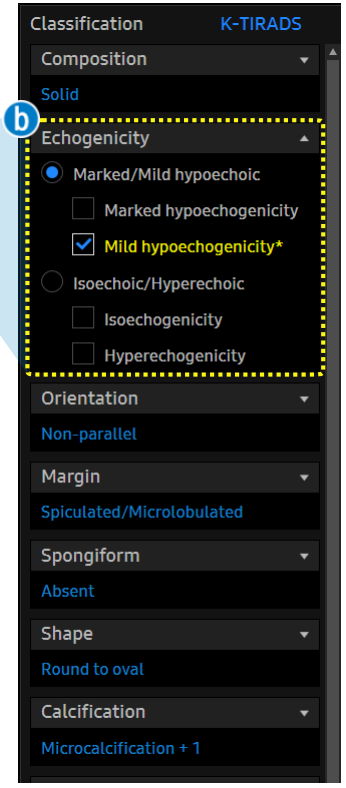
7. Result page: Edit the classification







1 Classifications	a Click the lexicon that you want to modify. b Edit the result. Modified Classification is represented in yellow. Classifications can also be edited on the touch screen.

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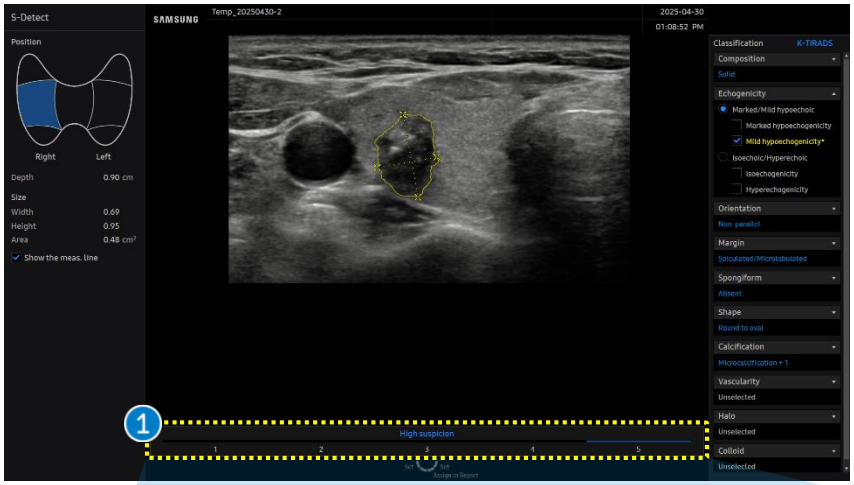
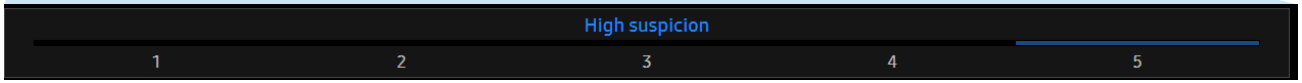
8. Result page: Description and Score





❶ TI-RADS score	Designate the specific TI-RADS Assessment score (1 ~ 5) on the bottom of the screen to make the final decision.

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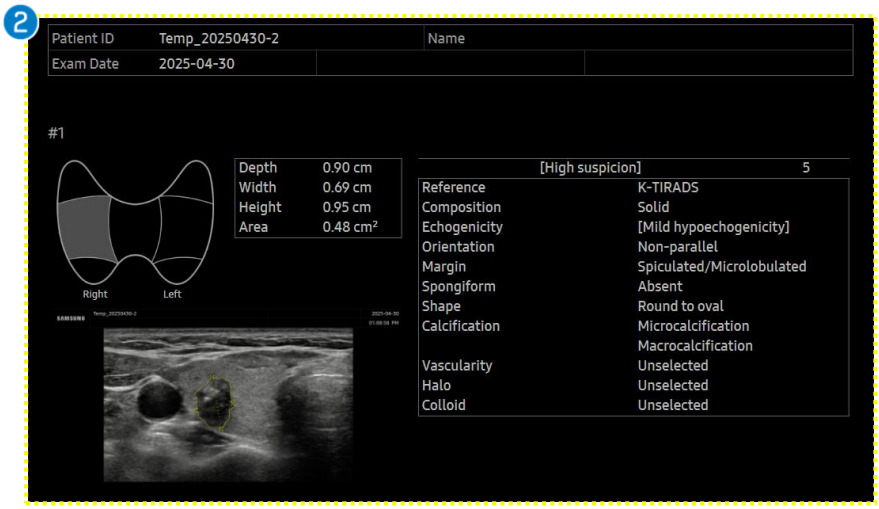
9. Assign to Report

❶ Assign to Report	If you want to add S-Detect results to report, tap the [Assign to Report] button on the touch screen.
❷ Report	Tap the [Report] button on the touch screen to confirm the result of S-Detect.



- The features, options may not be commercially available in some countries.
- Sales and shipments are effective only after the approval by the regulatory affairs. Please contact your local sales representative for further details.
- This Quick guide does not include all of the details of instruction, fore more detail, please refer to R20 User Manual.
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- This User Quick Guide is based on R20 V1.01.
- Disclaimer: Some Images in this content were obtained from other system.

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