

AB SCIEX - Mass Spectrometers



GENERAL DESCRIPTION:

AB SCIEX helps to improve the world we live in by enabling laboratory analysts to push the limits in their field and address the complex analytical challenges they face. The company's global leadership and world-class service and support in the mass spectrometry industry have made it a trusted partner to thousands of the scientists and lab analysts worldwide. With over 25 years of proven innovation, AB SCIEX excels in LC-MS/MS and MALDI MS/MS with reliable, sensitive and intuitive solutions that continue to redefine what is achievable complex analysis.



TECHNICAL DESCRIPTION:

Innovative LC/MS/MS technology from AB SCIEX delivers superior accuracy, sensitivity and higher throughput. Our unique hybrid triple-quadrupole linear ion-trap (QTRAP® System) technologies enable rapid screening, identification and quantitation of compounds in a single analysis.

CONTACT INFORMATION

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COST

- \$200,000/system
- N/A/analysis

Tier Selection

Final tier assignment is based on overall product score.

- Top Tier ● Second Tier ● Third Tier
● Fourth Tier ● Bottom Tier

RANKINGS

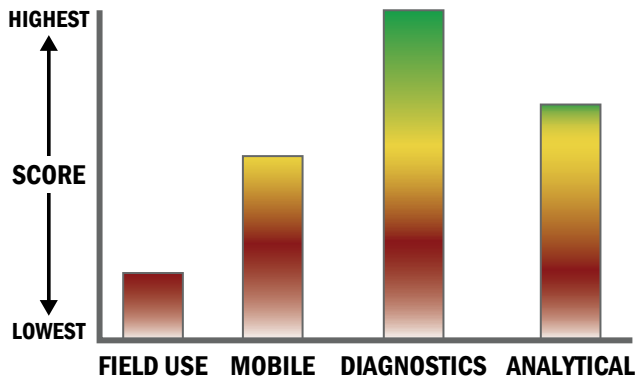
	Biological	Chemical	Radiological
FIELD USE System	N/A	Bottom Tier	N/A
MOBILE Laboratory	N/A	Bottom Tier	N/A
DIAGNOSTIC Laboratory	N/A	Bottom Tier	N/A
ANALYTICAL Laboratory	N/A	Bottom Tier	N/A

Survey Source

Vendor Supplied Information

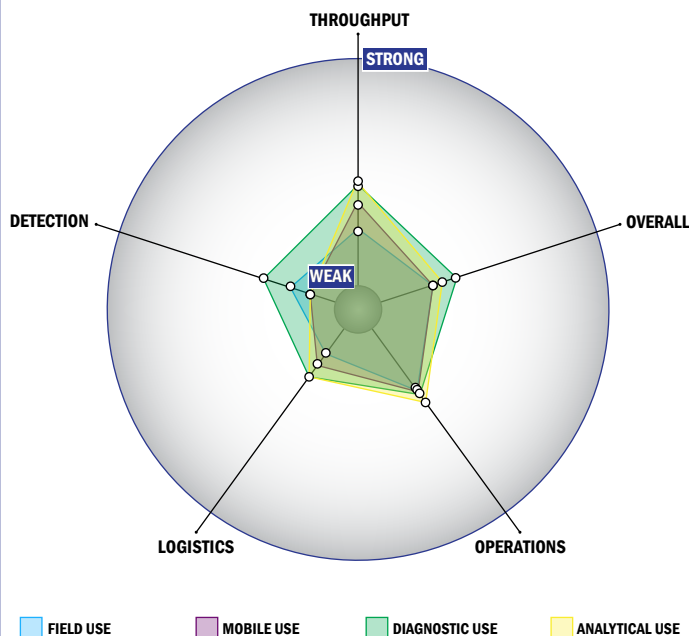
Scoring Analysis

System scores are compared across the four scenarios and ranked from highest to lowest.



Impact Chart

The Impact Chart is a spider graph representing specific categories and designed to give the reader a visual depiction of how a particular system is expected to operate across the four different scenarios. The score for each of the seven categories is presented as the percentage of the total possible score. Higher category scores extend the spokes of a graphic toward the outer edge of the chart. The area graphed for each of the four scenarios relates to how well the system performed in that scenario. Graphics for each of the four scenarios are super-imposed for ease of comparison.



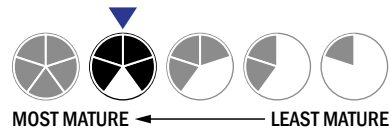
Evaluation Criteria

Throughput:

- Between 2 and 15 minutes for detection
- Multiple samples, multiple tests/sample per run
- Less than 32 samples every 2 hours
- The system could easily be adapted into a fully automated system
- Device or system is intended for multiple detection assays
- 4 solutions, buffer, eluents, and/or reagents
- 5 or more components
- Greater than 20 minutes is required for set-up
- 3-5 steps are required for detection

Logistics:

- More than a day of training and significant technical skills are required
- Larger than a home dishwasher
- More than 50kg
- Wireless and wired connections are available
- System or device has 220V electrical requirement
- The device is not intended for portable use
- Is commercially available



Operations:

- Components must be stored at room temperature (27°C)
- Device must be used in a temperature stable, dry environment for optimum performance
- Results can be viewed in real-time
- The system could easily be adapted into a fully autonomous system
- The system software is open but modification requires licensing
- The system hardware is closed and not available for modification

Detection:

- Possible the system could receive 510K clearance, no current efforts at this time
- Efforts are underway to achieve FDA approval
- Less than 250 µL
- Excellent specificity. System has occasional false alarms under certain conditions (<2%)