

In Field Instrument Review
Date Range: 2025.02.22 – 2025.04.11
Review Completed on 2025.05.12 by C. O'Bryant

Status Messages and Action Taken

100343 (Anchorage PD): 2/48 RFI on Subject Tests, 1/48 Pump Error on Subject Tests – No action taken.

100351 (AST/Soldotna): 4/27 RFI on Subject Tests - No action taken.

100358 (AST/Mat-Su West): 5/20 RFI on Subject Tests, 1/20 Diagnostic Failed - Diagnostic failed due to tank pressure being below 100psi. Instrument removed from service for preventative maintenance on 2025.04.01 (100358 2025.04.01 Change In Status).

100360 (Kake PD): 1/1 Diagnostic Failed on VOC due to RFI. Status message followed by a completed VOC. No action taken.

100369 (AST/Fairbanks): 1/45 RFI on Subject Tests – No action taken.

100382 (SCDL): 1/2 Blank Error on Subject Test. The instrument was not in service and tests were performed during laboratory testing.

100390 (Juneau PD): 2/22 Pump Error on Subject Tests – No action taken.

100392 (Homer PD): 1/11 RFI on Subject Tests - No action taken.

100395 (AST/Aniak): 2/2 Diagnostic Failed on VOC – Diagnostic failed due to filter wheel error twice – Recommend remove from service due to filter wheel errors.

100403 (Wasilla PD): 1/24 Pump Error on Subject Tests – No action taken.

100413 (Fairbanks PD): 1/18 RFI on Subject Tests, 1/18 Pump Error on Subject Tests, 1/18 Tank Interference on Subject Tests – Pump Error and Tank Interference occurred on the same subject and followed by a completed subject test – No action taken.

100418 (Anchorage PD): 1/15 RFI on Subject Tests – No action taken.

100421 (JBER): 1/20 Blank Error on Subject Tests – No action taken.

100665 (AST/Healy): 2/3 RFI on Subject Tests – Three tests on the same subject, resulted in a completed test. – No action taken.

100667 (Haines PD): 1/5 RFI on Subject Tests - No action taken.

100668 (North Pole PD): 1/13 Blank Error on Subject Tests, 1/13 Standard Out of Range on Subject Tests, 4/13 Filter Wheel Errors on Subject Tests – Instrument removed from service for filter wheel errors on 2025.03.23 (100668 2025.03.23 Change In Status).

100669 (Palmer PD): 3/25 RFI on Subject Tests, 1/25 Pump Errors on Subject Tests – No action taken.

100670 (AST/Mat-Su West): 1/5 RFI on Subject Tests, 1/5 Pump Error on Subject Tests, 2/5 Interference on Subject Tests, 1/3 Diagnostic Failed on VOC – RFI and Subject Interference occurred on the same

subject, Pump Error was followed by a completed test. Diagnostic Failed on VOC due to RFI status message, followed by a completed VOC. Instrument placed in service on 2025.04.01 - No action taken.

100673 (Seward PD): 3/33 RFI on Subject Tests, 1/33 Pump Error on Subject Tests, 3/33 Blank Errors on Subject Tests, 4/33 Internal Standard Errors on Subject Tests, 1/3 Blank Error on VOC – Internal Standard Errors occurred on 3 subjects. All readings were 4-6%. Subsequent passing tests had internal standard readings between 0.32% - 2.45%. An additional VOC failed (2025.04.13) due to RFI. Both were followed by a completed VOC on 2025.04.13 - Recommend Monitoring for internal standard and blank errors.

100675 (AST/Angoon): 3/3 Diagnostic Failed on VOC – Diagnostic Failed due to pump and filter errors. Instrument removed from service on 2025.03.13 (100675 2025.03.13 Change In Status).

100676 (North Pole PD): 1/4 Gas Flow Error on VOC – Gas flow error on VOC following a tank change. Followed by 4 successful VOCs between 2025.03.31 and 2025.04.18. – No action taken.

100681 (Soldotna PD): 1/12 Detector Overflow on Subject Test – Status message occurred during test/test – No action taken.

100682 (Bristol Bay Borough PD): 1/3 Internal Standard Error on Subject Test – Internal Standard Error (4.11%) followed by completed test (IS – 2%). – Recommend Monitoring for internal standard errors.

100683 (AST/Ketchikan): 2/2 Internal Standard Error on Subject Tests, 1/2 Internal Standard Errors on VOC – Internal Standard Error (4.4%, 4.1%, 4.9%) – Instrument removed from service for internal standard errors. (100683 2025.04.17 Change In Status)

100687 (King Cove PD): 1/4 Diagnostic Failed on VOC – Diagnostic failed due to pump error, followed by three completed VOCs. No subject tests in 2025. – Monitoring from last cycle for tank interference and blank errors. Continue monitoring for tank interference and blank errors, add monitoring for pump error.

100689 (Dillingham PD): 1/5 Standard Out of Range on Subject Tests – External standard running 0.003, 0.004 lower than target value for completed tests. Standard out of Range followed by completed tests. Tank changed on 2025.04.14. – No action taken.

100691 (Cordova PD): 2/5 RFI on Subject Tests, 2/5 Tank Interference on Subject Tests – RFIs were on Test/Test sequences. Tank Interference had elevated Filter 3 readings. Subsequent tests completed without tank interferences. – No action taken.

100692 (Anchorage Airport PD): 1/11 Interference on Subject Tests, 1/11 Blank Error on Subject Tests – Interference Status Message was due to elevated filter 2 readings, followed by a completed test. – No action taken.

100694 (Ft. Wainwright MP): 1/6 Tank Interference on Subject Tests – Interference Status Message was due to elevated filter 3 reading, followed by a completed test. – No action taken.

100697 (Anchorage PD): 3/93 RFI on Subject Tests, 1/93 Pump Error on Subject Tests, 1/93 Tank Interference on Subject Tests, 1/93 Blank Error on Subject Tests, 7/93 Internal Standard Error on Subject Tests – Recommend removing the instrument from service for Internal Standard Errors. APD notified and will replace the week of 2025.05.12.

100698 (AST/Glennallen): 1/5 RFI on Subject Tests – No action taken.

100700 (UAF PD): 1/6 RFI on Subject Tests – No action taken.

Follow Up from Previous in Field Instrument Review

100379 (AST/Anchor Point): Monitored for standard out of range on subject tests and VOCs. 2/3 on subject tests, 1/4 on VOCs. – No status messages related to standard out of range in the three tests that occurred this cycle. – Discontinue Monitoring.

100683 (AST/Ketchikan): 2/2 Internal Standard Error on Subject Tests, 1/2 Internal Standard Errors on VOC – Internal Standard Error (4.4%, 4.1%, 4.9%) – Instrument removed from service for internal standard errors. (100683 2025.04.17 Change In Status)

100687 (King Cove PD): 1/4 Diagnostic Failed on VOC – Diagnostic failed due to pump error, followed by three completed VOCs. No subject tests in 2025. – Monitoring from last cycle for tank interference and blank errors. Continue monitoring for tank interference and blank errors, add monitoring for pump error.

Agencies not included in this summary:

100345 (AST/Galena) – Agency unresponsive. Instrument hasn't uploaded since January 2025. Instrument being removed from service.

100365 (Eielson AFB) – Agency unresponsive – instrument mailed to EIE 2025.02.25. No In service paperwork. 100424 taken out of service for PM. 100365 never placed in service due to lack of a passing VOC.

100695 (Sand Point PD) – Instrument is unable to upload. No VOCs have been received for this instrument since it was placed in service on 2024.11.26. Agency is unresponsive. Instrument being removed from service.

Subject Test Data

Subject Test Data										Date Range		Total Tests		653				
										2/22/2025 - 4/11/2025		Total Messages		74		11.3%		
Serial Number	Total Subject Tests	RFI		Pump Error	Interference	Tank Interference	Blank Error		Standard Out of Range		Gas Flow Error		Ambient Fail		Internal Standard Error		Diagnostic Failed	Total Codes
100343	48	2	4%	1	2%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	3
100351	27	4	15%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	4
100358	20	5	25%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	6
100369	45	1	2%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100382	2	0	0%	0	0%	0	0%	1	50%	0	0%	0	0%	0	0%	0	0%	1
100390	22	0	0%	2	9%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2
100392	11	1	9%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100403	24	0	0%	1	4%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100413	18	1	6%	1	6%	0	0%	1	6%	0	0%	0	0%	0	0%	0	0%	3
100418	15	1	7%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100421	20	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100665	3	2	67%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2
100667	5	1	20%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100668	13	0	0%	0	0%	0	0%	1	8%	1	8%	0	0%	0	0%	0	0%	2
100669	25	3	12%	1	4%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	4
100670	5	1	20%	1	20%	2	40%	0	0%	0	0%	0	0%	0	0%	0	0%	4
100673	33	3	9%	1	3%	0	0%	3	9%	0	0%	0	0%	0	4	12%	0	11
100682	3	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	1	33%	0	1
100683	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	2	100%	0	2
100689	5	0	0%	0	0%	0	0%	0	0%	1	20%	0	0%	0	0%	0	0%	1
100691	5	2	40%	0	0%	0	0%	2	40%	0	0%	0	0%	0	0%	0	0%	4
100692	11	0	0%	0	0%	1	9%	0	0%	1	9%	0	0%	0	0%	0	0%	2
100694	6	0	0%	0	0%	0	0%	1	17%	0	0%	0	0%	0	0	0%	0	1
100697	93	3	3%	1	1%	0	0%	1	1%	0	0%	0	0%	7	8%	0	0%	13
100698	5	1	20%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100700	6	1	17%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
Total	653	32	5%	9	1%	3	0%	5	1%	8	1%	2	0%	0	14	2%	1	74

The date range listed above represents the first and last dates of data generated from the DMHost report. The search range could be larger than the date range listed.

Subject Test Data																	
		Date Range		Total Tests		653											
		2/22/2025		4/11/2025		Total Messages		5		0.8%							
Serial Number	Total Subject Tests	User Abort		Detector Overflow		Barometer Error		Filter Wheel Error		Suck Back Error		Undefined Error		Filter 1 Won't Zero		Samp Chamb Low	
100668	13	0	0%	0	0%	0	0%	4	31%	0	0%	0	0%	0	0%	0	0%
100681	12	0	0%	1	8%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Total	653	0	0%	1	0%	0	0%	4	1%	0	0%	0	0%	0	0%	0	0%

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VOC Data

VOC Data											Date Range		Total Tests		Total Messages										
											2/22/2025 - 4/11/2025		116		11		9.5%								
Serial Number	Total VOC Tests	RFI		Pump Error		Interference		Tank Interference		Blank Error		Standard Out of Range		Gas Flow Error		Ambient Fail		Internal Standard Error		Diagnostic Failed	Total Codes				
100360	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%	1			
100395	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2	100%	2			
100670	3	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	33%	1			
100673	2	0	0%	0	0%	0	0%	0	0%	1	50%	0	0%	0	0%	0	0%	0	0%	0	0%	1			
100675	3	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	3	100%	3			
100676	4	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	25%	0	0%	0	0%	0	0%	1			
100683	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	50%	0	0%	1			
100687	4	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	25%	1			
Total	116	0	0%	0	0%	0	0%	0	0%	1	1%	0	0%	1	1%	0	0%	1	1%	8	7%	11			

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