

In Field Instrument Review
Date Range: 2021.07.19 – 2021.09.05
Review Completed on 2021.10.13 by Colleen O’Bryant

100342 (Anchorage PD): 10/50 Gas Flow Error on Subject Tests, 5/6 Gas Flow Errors on VOCs – Instrument was Removed from Service for Gas Flow Errors on 2021.08.16 (100342 2021.08.16 Change In Status)

100343 (Sitka PD): 1/3 Tank Interference on VOCs – Followed by multiple successfully completed VOCs – no action taken.

100344 (Juneau PD): 1/25 RFI on Subject Tests, 1/25 Pump Error on Subject Tests – No action taken.

100345 (Valdez PD): 3/8 RFI on Subject Tests, 2/8 Standard Out of Range on Subject Tests, 1/4 Tank Interference on VOC. Most of the status messages (all except 2 RFIs) occurred on the same day or with the same subject with an elevated alcohol level and multiple tests conducted. Tank change and VOCs were successfully conducted on 2021.07.30 and 2021.08.12. – *Recommend monitoring*

100347 (Denali National Park): 1/3 Tank Interference on Subject Tests and 1/3 Internal Standard Error on Subject Test – All status messages occurred during test/test function. Instrument removed from service for screen issues (100347 2021.07.31 Change In Status)

100351 (Fairbanks PD): 1/28 RFI on Subject Tests – No action taken.

100355 (Homer PD): 2/33 Interference Detected on Subject Tests – both status messages occurred on the same subject. - No action taken.

100358 (AST/Mat-Su West): 1/27 RFI on Subject Tests – No action taken.

100362 (AST/Kodiak): 1/2 RFI on Subject Tests – Test was followed by a successfully completed test. - No action taken.

100364 (Anchorage Airport PD): 1/6 Blank Error on Subject Tests – Test was followed by a successfully completed test. - No action taken.

100365 (Anchorage PD): 2/62 Pump Error on Subject Tests, 1/62 Blank Error on Subject Tests – All tests were followed by a successfully completed test. No action taken.

100366 (Anchorage PD): 2/179 Pump Error on Subject Tests, 1/179 Tank Interferences on Subject Tests, 4/179 Blank Error on Subject Tests, 1/179 Standard Out of Range on Subject Tests, 1/179 Ambient Fail on Subject Tests, 2/179 Internal Standard Errors on Subject Tests – All status messages were followed by successfully completed tests, except one Internal Standard Error message. No action taken.

100367 (Seward PD): 1/20 RFI on Subject Test – No action taken.

100376 (Wasilla PD): 1/37 Internal Standard Error on Subject Tests. Followed by a successfully completed test. – *Recommended Monitoring*

100378 (Palmer PD): 1/11 RFI on Subject Tests, 1/11 Pump Error on Subject Tests. Both status messages were followed by a successfully completed test. - No action taken.

100391 (AST/Willow): 1/2 Diagnostic Failure on VOC due to internal standard error. VOC was followed by a successfully completed VOC. – *Recommended Monitoring*

100395 (Fairbanks Airport PD): 1/5 RFI on Subject Tests, 1/5 Tank Interference on Subject Tests. Both status messages occurred on the same subject and were followed by a successfully completed test. – No action taken.

100413 (North Slope Borough PD): 3/7 Internal Standard Errors on Subject Tests, 2/3 Diagnostic Failure on VOC due to internal standard failure. Instrument removed from service for internal standard errors (100413 2021.08.10 Change In Status).

100421 (JBER): 4/25 RFI on Subject Tests – No action taken.

100423 (Ft. Wainwright MP): 2/18 Pump Error on Subject Tests. Both status messages were followed by a successfully completed test. - No action taken.

100668 (Palmer PD): 2/32 RFI on Subject Tests, 2/32 Blank Error on Subject Tests. Instrument removed from service for fatal system error status message (100668 2021.08.31 Change In Status).

100669 (AST/Soldotna): 5/33 RFI on Subject Tests, 1/33 Tank Interference on Subject Tests. All status messages were followed by a successfully completed test. – No action taken.

100670 (Unalaska DPS): 1/3 RFI on Subject Tests. – No action taken.

100675 (Bethel PD): 1/8 Tank Interference on Subject Tests, 1/8 Filter Wheel Error on Subject Tests, 6/8 Diagnostic Failure on VOC due to Detector Overflow (5) and Filter Wheel Error (1). Instrument removed from service for detector overflow status messages (100675 2021.09.11 Change In Status).

100680 (Dillingham PD): 1/13 Interference on Subject Tests. Status message was followed by a successfully completed test. – No action taken.

100682 (Kodiak PD): 1/13 Pump Error on Subject Tests. Status message was followed by a successfully completed test. – No action taken.

100690 (Soldotna PD): 1/6 Standard out of Range on Subject Tests, 2/5 Tank Interference on VOCs. Standard out of range status message was followed by a successfully completed test.

Three successful VOCs since tank change on 2021.08.10. – *Recommended Continued Monitoring*

100699 (Kenai PD): 2/22 Internal Standard Error on Subject Tests. Both status messages were followed by a successfully completed test. Replacement instrument sent 2021.10.11.
Recommended Replacement

Agencies not included in this summary: 100352 (North Slope Borough PD), 100424 (Eielson AFB), 100665 (AST/Emmonak) and 100686 (Whittier PD).

Subject Test Data

Serial Number	Total Subject Tests	Date Range								Total Tests		Total Messages									
		7/19/2021				9/5/2021				825		71 8.6%									
		RFI	Pump Error	Interference	Tank Interference	Blank Error	Standard Out of Range	Gas Flow Error	Ambient Fail	Internal Standard Error	Diagnostic Failed										
100342	50	0	0%	0	0%	0	0%	0	0%	0	0%	10	20%	0	0%	0	0%	0	0%	0	0%
100344	25	1	4%	1	4%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100345	8	3	38%	0	0%	0	0%	0	0%	0	0%	2	25%	0	0%	0	0%	0	0%	0	0%
100347	3	0	0%	0	0%	0	0%	1	33%	0	0%	0	0%	0	0%	0	0%	1	33%	0	0%
100351	28	1	4%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100355	33	0	0%	0	0%	2	6%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100358	27	1	4%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100362	2	1	50%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100364	6	0	0%	0	0%	0	0%	0	0%	1	17%	0	0%	0	0%	0	0%	0	0%	0	0%
100365	62	0	0%	2	3%	0	0%	0	0%	1	2%	0	0%	0	0%	0	0%	0	0%	0	0%
100366	179	0	0%	2	1%	0	0%	1	1%	4	2%	1	1%	0	0%	1	1%	2	1%	0	0%
100367	20	1	5%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100376	37	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	3%	0	0%
100378	11	1	9%	1	9%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100395	5	1	20%	0	0%	0	0%	1	20%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100413	7	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	3	43%	0	0%
100421	25	4	16%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100423	18	0	0%	2	11%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100668	32	2	6%	0	0%	0	0%	0	0%	2	6%	0	0%	0	0%	0	0%	0	0%	0	0%
100669	33	5	15%	0	0%	0	0%	1	3%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100670	3	1	33%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100675	8	0	0%	0	0%	0	0%	1	13%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100680	13	0	0%	0	0%	1	8%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100682	13	0	0%	1	8%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100690	6	0	0%	0	0%	0	0%	0	0%	1	17%	0	0%	0	0%	0	0%	0	0%	0	0%
100699	22	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2	9%	0	0%
Total	825	22	3%	9	1%	3	0%	5	1%	8	1%	4	0%	10	1%	1	0%	9	1%	0	0%

VOC Data

Serial Number	Total VOC Tests	RFI		Pump Error		Interference		Tank Interference		Date Range		Total Tests		Gas Flow Error		Ambient Fail		Internal Standard Error		Diagnostic Failed	
										Total Messages		149									
										7/20/2021	9/5/2021	18	12.1%								
100342	6	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100343	3	0	0%	0	0%	0	0%	1	33%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100345	4	0	0%	0	0%	0	0%	1	25%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100391	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	50%
100413	3	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2	67%
100675	8	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	6	75%
100690	5	0	0%	0	0%	0	0%	2	40%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Total	149	0	0%	0	0%	0	0%	4	3%	0	0%	0	0%	5	3%	0	0%	0	0%	9	6%

