

In Field Instrument Review
Date Range: 2021.10.25 – 2021.12.12
Review Completed on 2022.01.04 by Colleen O’Bryant

Status Messages and Action Taken

100255 (Clear AFB) – 5/12 RFI Status Message on Subject Tests – all status messages occurred during “test/test” scenarios – No Action Taken.

100346 (Kenai PD) – 1/19 Interference Status Message on Subject Tests - No Action Taken.

100351 (Fairbanks PD) – 5/36 RFI Status Message on Subject Tests – No Action Taken.

100353 (AST/Tok) – 6/7 Diagnostic Failed Status Messages on VOCs – Instrument placed in service 2021.11.04 (100353 2021.11.04 Change In Status) and then failed VOCs due to filter wheel errors, RFI and Internal Standard Failed and was removed on 2021.11.05 (100353 2021.11.05 Change In Status). – Instrument removed from service on 2021.11.05.

100355 (Homer PD) – 2/21 RFI Status Message on Subject Tests – No Action Taken.

100357 (Wrangell PD) – 1/3 RFI Status Message on Subject Test – status message occurred during “test/test” scenario – No Action Taken.

100360 (Sand Point PD) – 1/3 Internal Standard Error Status Message on Subject Test – Occurred on a “test/test” scenario. 1/2 Diagnostic Failed on VOC due to internal standard failure – followed by a successfully completed VOC (100360 2021.10.30 Change In Status) – the instrument was not removed from service. – Recommend Monitoring

100361 (Anchorage PD) – 2/16 Interference Status Messages on Subject Tests, 2/16 Tank Interference Status Messages on Subject Tests, 4/16 Diagnostic Failed Status Messages on Subject Tests – Diagnostic failures due to breath tube temperature, troubleshooting occurred on 2021.11.06 (100361 2021.11.10 Change In Status) and then the instrument was removed on 2021.11.13 (100361 2021.11.13 Change In Status) – Instrument removed from service on 2021.11.13.

100366 (Anchorage PD) – 7/137 RFI Status Messages on Subject Tests, 1/137 Interference Status Message on Subject Test, 1/137 Blank Error on Subject Tests, 1/6 Tank Interference on VOC – Tank interference on VOC followed by a successfully completed VOC, no other occurrences of the status message – No Action Taken.

100367 (Seward PD) – 3/15 – RFI Status Message on Subject Tests – No Action Taken.

100376 (Wasilla PD) – 1/18 RFI Status Message on Subject Tests, 1/18 Blank Error on Subject Tests, 1/3 User Abort on VOCs – Internal standard error occurred on 2021.10.24, prior to this review. See IFIR 2021-09.06 – 2021.10.24. Instrument removed from service on 2021.11.23 (100376 2021.11.23 Change In Status) – Instrument removed from service.

100378 (Palmer PD) – 4/40 RFI Status Message on Subject Tests, 1/40 Blank Error on Subject Tests – No Action Taken.

100389 (Cordova PD) – 1/6 Pump Error Status Message on Subject Tests – status message occurred during “test/test” scenario– No Action Taken.

100396 (Glacier Bay NP) – 1/1 Diagnostic Failed on VOC due to Detector Overflow – Recommend Removing Instrument from Service – Instrument shipped to GBNP on 2021.12.17

100398 (Anchorage PD) – 2/107 Blank Error Status Message on Subject Tests – No Action Taken.

100402 (AST/Tok) – 1/9 RFI Status Message on Subject Tests, 2/9 Interference Status Message on Subject Tests – both interference status messages occurred on the same subject – No Action Taken.

100421 (JBER) – 1/32 RFI Status Message on Subject Tests, 1/32 Blank Error on Subject Test – No Action Taken.

100422 (JBER) – 1/8 Ambient Fail Status Message on Subject Tests, 1/8 Detector Overflow status message on Subject Tests – status messages occurred during “test/test” scenarios – No Action Taken.

100423 (Ft. Wainwright MP) – 1/20 RFI, 1/20 Standard out of Range, 1/20 Ambient Fail Status Messages on Subject Tests – all messages occurred on the same subject – No Action Taken.

100667 (AST/Tok) – 3/3 Diagnostic Failed Status Messages on VOCs due to two internal standard errors and an RFI. Instrument removed from service on 2021.10.29 (100667 2021.10.29 Change In Status) – Instrument removed from service.

100669 (AST/Soldotna) – 3/19 RFI Status Messages on Subject Test – No Action Taken.

100681 (Soldotna PD) – 2/8 Standard out of Range Status Messages on Subject Tests - all status messages occurred during “test/test” scenarios and not repeated for other tests – No Action Taken.

100682 (Kodiak PD) – 1/3 Blank Error Status Message on a VOC – Successful VOC was completed following the status message – No Action Taken.

100683 (AST/Glennallen) – 1/5 Tank Interference, 1/5 Blank Error Status Messages on Subject Test – All messages occurred on the same subject, were followed by a completed test and did not reoccur – No Action Taken.

100690 (Soldotna PD) – 1/6 Standard out of Range Status Message on Subject Tests, 1/1 Standard out of Range Status Message on VOC - Removed from service on 2021.11.22 (100690 2021.11.22 Change In Status) – Instrument Removed from Service.

Follow Up from Previous In Field Instrument Review

100391 (AST/Willow) – Instrument was being monitored due to an internal standard error on 2021.09.05. No additional status messages have occurred – Discontinue monitoring.

100690 (Soldotna PD) – During IFIR 2021.09.06 – 2021.10.24 instrument replacement was recommended due to tank interference. Removed from service on 2021.11.22 (100690 2021.11.22 Change In Status) – Instrument Removed from Service.

Agencies not included in this summary:

100360 (Sand Point PD) - Data is incomplete, last upload 2021.10.31, **100424 (Eielson AFB)**, **100682 (Kodiak PD)** – Data is incomplete, last upload 2021.11.24.

Subject Test Data

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	
		Date Range																			
		10/25/2021	12/12/2021																		
100255	12	5	42%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100346	19	0	0%	0	0%	1	5%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100351	36	5	14%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100355	21	2	10%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100357	3	1	33%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100360	3	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	33%	0	0%
100361	16	0	0%	0	0%	2	13%	2	13%	0	0%	0	0%	0	0%	0	0%	0	0%	4	25%
100366	137	7	5%	0	0%	1	1%	0	0%	1	1%	0	0%	0	0%	0	0%	0	0%	0	0%
100367	15	3	20%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100376	18	1	6%	0	0%	0	0%	0	0%	1	6%	0	0%	0	0%	0	0%	0	0%	0	0%
100378	40	4	10%	0	0%	0	0%	0	0%	1	3%	0	0%	0	0%	0	0%	0	0%	0	0%
100389	6	0	0%	1	17%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100398	107	0	0%	0	0%	0	0%	0	0%	2	2%	0	0%	0	0%	0	0%	0	0%	0	0%
100402	9	1	11%	0	0%	2	22%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100421	32	1	3%	0	0%	0	0%	0	0%	1	3%	0	0%	0	0%	0	0%	0	0%	0	0%
100422	8	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	13%	0	0%	0	0%
100423	20	1	5%	0	0%	0	0%	0	0%	0	0%	1	5%	0	0%	1	5%	0	0%	0	0%
100669	19	3	16%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100681	8	0	0%	0	0%	0	0%	0	0%	0	0%	2	25%	0	0%	0	0%	0	0%	0	0%
100683	5	0	0%	0	0%	0	0%	1	20%	1	20%	0	0%	0	0%	0	0%	0	0%	0	0%
100690	6	0	0%	0	0%	0	0%	0	0%	0	0%	1	17%	0	0%	0	0%	0	0%	0	0%
Total	724	34	5%	1	0%	8	1%	3	0%	7	1%	4	1%	0	0%	2	0%	1	0%	4	1%

Subject Test Data

Serial Number	Total Subject Tests	User Abort		Detector Overflow		Barometer Error		Filter Wheel Error		Date Range		Total Tests		Total Messages		Samp Chamb Low		Breath Tube High		Static Analysis Error	
										10/25/2021	12/12/2021	724	0.1%	1	0.1%						
100422	8	0	0%	1	13%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Total	724	0	0%	1	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%

VOC Data

Serial Number	Total VOC Tests	RFI		Pump Error				Interference				Tank Interference				Date Range		Total Tests		Total Messages		Diagnostic Failed					
																10/25/2021		12/12/2021		122				14		11.5%	
																Blank Error	Standard Out of Range	Gas Flow Error	Ambient Fail	Internal Standard Error							
100353	7	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	6	86%				
100360	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	50%				
100366	6	0	0%	0	0%	0	0%	0	0%	1	17%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%				
100396	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%				
100667	3	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	3	100%				
100682	3	0	0%	0	0%	0	0%	0	0%	0	0%	1	33%	0	0%	0	0%	0	0%	0	0%	0	0%				
100690	1	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%				
Total	122	0	0%	0	0%	0	0%	1	1%	1	1%	1	1%	0	0%	0	0%	0	0%	0	0%	11	9%				

VOC Data

Serial Number	Total VOC Tests	User Abort		Detector Overflow		Barometer Error		Filter Wheel Error		Date Range		Total Tests		Total Messages		Samp Chamb Low		Breath Tube High		Static Analysis Error	
										10/25/2021	12/12/2021	122	0.8%	1	0.8%						
100376	3	1	33%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Total	122	1	1%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%