

In Field Instrument Review
01/03/2020 to 02/24/2020
Performed by Derek Walton

100255 (Clear AFB): 1/2 RFI – No action taken

100346 (Anchorage PD): 1/64 RFI, 1/64 Pump error, 4/64 Subject interference, 1/64 Tank interference - Instrument removed from service on 01/21/2020 due to the touch screen not working.

100360 (Sand Point PD): 2/3 Gas flow errors on VOC – **Troubleshooting started with Breath Test Supervisor to check tank connections and double check valve position**

100361 (JBER): 2/12 RFI, 1/12 Blank error – No action taken

100362 (AST Kodiak): 1/5 Pump error, all 5 tests on same subject with no successful test afterward, contacted Breath Test Supervisor who indicated that subject was charged with refusal – No action taken

100364 (Kodiak PD): 1/13 RFI – No action taken

100365 (Unalaska PD): 11/11 Gas flow errors on VOCs – Instrument out of service remotely and replacement instrument shipped on 02/24/2020

100371 (AST Ketchikan): 1/7 RFI – No action taken

100378 (AST Fairbanks): 5/47 RFI, 1/47 Pump error, 6/47 Gas flow error, 2/5 additional Gas flow errors on VOCs – Double check valve had come off side wall, reattached by Breath Test Supervisor, no additional Gas flow errors since repair – No further action taken

100379 (Wasilla PD): 3/24 Subject interference, all on same subject – No action taken

100381 (AST Soldotna): 1/22 RFI – No action taken

100385 (Hoonah PD): 1/8 Pump error, 7 tests on same subject, talked to Breath Test Supervisor and was notified that subject was unable to provide a sufficient breath sample with multiple attempts - No action taken

100387 (Petersburg PD): 1/5 Pump error, followed by a successful test – No action taken

100406 (Juneau PD): 3/26 Pump error, all different subjects and operators – **Recommend monitoring**

100416 (Fairbanks PD): 3/42 RFI, 2/42 Tank interference, 1/42 Blank error – Tank interference messages were back-to-back, tank replaced afterward with no further tank interference status messages since – No further action taken

100418 (Kenai PD): 5/32 RFI, 3/32 Internal standard error – Instrument replaced on 02/28/2020

100422 (JBER): 2/14 Subject interference, 9/14 Detector Overflow – Instrument replaced on 02/12/2020

100668 (Palmer PD): 6/42 RFI, 1/42 Subject interference, 2/42 Blank error – No action taken

100678 (AST Mat-Su West): 1/8 RFI – No action taken

100683 (AST Glenallen): 1/3 Subject interference – No action taken

100692 (Whittier PD): 2/7 RFI – No action taken

100693 (Seward PD): 2/12 RFI, 1/12 Blank error, 1/12 Ambient fail – No action taken

100694 (Anchorage PD): 1/157 Pump error, 2/157 Subject interference, 1/157 Tank interference, 14/157 Blank error, 1/157 Ambient fail – **All but one blank error followed by a good test, recommend monitoring**

100699 (Anchorage PD): 1/49 Subject interference, 7/49 Gas flow error, 1/49 Internal standard error, 3/6 additional Gas flow errors on VOCs – Out of service on 02/07/2020 for gas flow errors

Follow ups from previous In Field Instrument Review (not already addressed above):

100359 (Hooper Bay PD): Instrument is out of service due to an internal standard error and not having a Breath Test Supervisor at the agency; awaiting return of instrument to the lab

100363 (AST Anchor Point): No further standard out of range messages

100386 (AST Unalakleet): No further internal standard errors

100410 (AST Aniak): No further standard out of range messages

100414 (AST Delta Junction): No further gas flow errors

100418 (Kenai PD): Instrument replaced on 02/28/2020

100422 (JBER): Instrument replaced on 02/12/2020

100678 (AST Mat-Su West): No further interference status messages

100682 (Sitka PD): No further status messages

100693 (Seward PD): One additional blank error and one additional ambient fail – **Continue monitoring**

***This In Field Instrument Review does not contain complete data for the following agencies: Sand Point PD, AST St Mary's, Hoonah PD, and North Slope Borough PD.**

Serial Number	Total Subject Tests	Date Range								Total Tests				Total Messages							
		RFI		Pump Error		Interference		Tank Interference		Blank Error		Standard Out of Range		Gas Flow Error		Ambient Fail		Internal Standard Error		Diagnostic Failed	
		1/3/2020	2/23/2020	1/3/2020	2/23/2020	1/3/2020	2/23/2020	1/3/2020	2/23/2020	1/3/2020	2/23/2020	1/3/2020	2/23/2020	1/3/2020	2/23/2020	1/3/2020	2/23/2020	1/3/2020	2/23/2020	1/3/2020	2/23/2020
100255	2	1	50%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100346	64	1	2%	1	2%	4	6%	1	2%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100361	12	2	17%	0	0%	0	0%	0	0%	1	8%	0	0%	0	0%	0	0%	0	0%	0	0%
100362	5	0	0%	1	20%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100364	13	1	8%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100371	7	1	14%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100378	47	5	11%	1	2%	0	0%	0	0%	0	0%	6	13%	0	0%	0	0%	0	0%	0	0%
100379	24	0	0%	0	0%	3	13%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100381	22	1	5%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100385	8	0	0%	1	13%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100387	5	0	0%	1	20%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100406	26	0	0%	3	12%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100416	42	3	7%	0	0%	0	0%	2	5%	1	2%	0	0%	0	0%	0	0%	0	0%	0	0%
100418	32	5	16%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	3	9%	0	0%
100422	14	0	0%	0	0%	2	14%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100668	42	6	14%	0	0%	1	2%	0	0%	2	5%	0	0%	0	0%	0	0%	0	0%	0	0%
100678	8	1	13%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100683	3	0	0%	0	0%	1	33%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100692	7	2	29%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100693	12	2	17%	0	0%	0	0%	0	0%	1	8%	0	0%	1	8%	0	0%	0	0%	0	0%
100694	157	0	0%	1	1%	2	1%	1	1%	14	9%	0	0%	0	0%	1	1%	0	0%	0	0%
100699	49	0	0%	0	0%	1	2%	0	0%	0	0%	7	14%	0	0%	1	2%	1	2%	0	0%
Total	798	31	4%	9	1%	14	2%	4	1%	19	2%	0	0%	13	2%	2	0%	4	1%	0	0%

VOC

Serial Number	Total Subject Tests	RFI		Pump Error		Interference		Tank Interference		Date Range		Total Tests		Total Messages		Ambient Fail		Internal Standard Error		Diagnostic Failed	
										1/3/2020	2/24/2020	197	35	17.8%							
✓ 100360	3	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2	57%	0	0%	0	0%	0	0%
✓ 100365	11	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	11	100%	0	0%	0	0%	0	0%
✓ 100378	5	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2	40%	0	0%	0	0%	0	0%
✓ 100699	6	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	3	50%	0	0%	0	0%	0	0%
Total	197	0	0%	0	0%	0	0%	2	1%	5	3%	0	0%	18	9%	0	0%	0	0%	10	5%

VOC

Table with columns: Serial Number, Total Subject Tests, User Abort, Detector Overflow, Barometer Error, Filter Wheel Error, Suck Back Error, Date Range, Total Tests, Total Messages, Filter 1 Won't Z, Sump Chamb Low, Breath Tube High, Static Analysis Error. Rows include serial numbers 100255 to 100700 and a Total row.