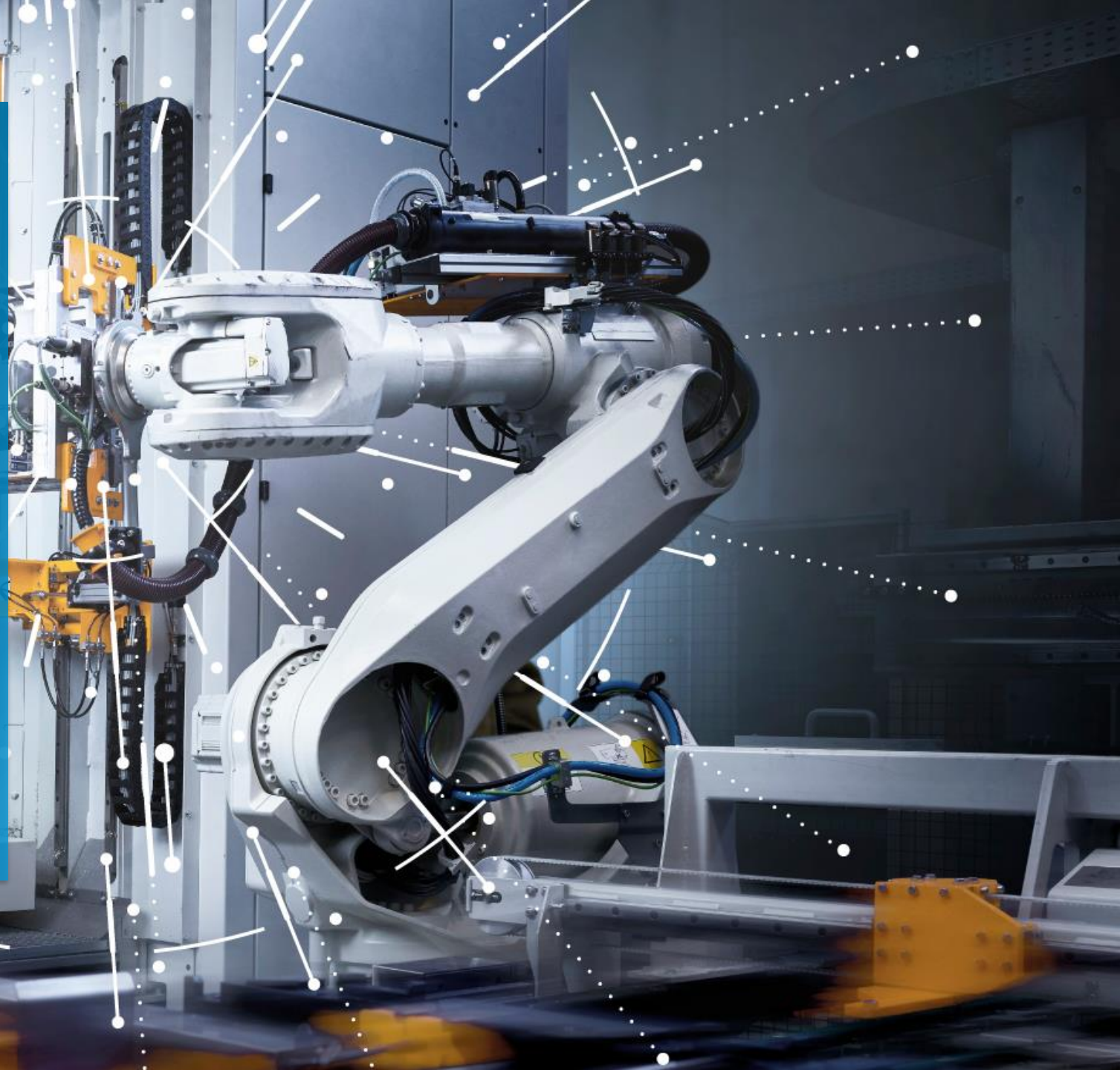


flex.

Waters Continuous Improvement Update - 2021

30 Jun 2021



2021 Overall Continuous Improvement Update

Closed In Progress

Continuous Improvement Plan – Focus Areas		Objective/Goal	Responsible	Jan-Mar	Apr-Jun	Jul- Sep	Oct - Dec
Quality	1. Yield Improvement – Soft failures	Focus top 2 failures (Soft failures)	Joel / Hua Zhen	Comm Failure	FPY for QSM+ (Test Flow Rate Accuracy 0.5ml/min)	FPY for QSM+ (Test Static Leak Decay Vent Valve to Filter/Mixer)	FPY for QSM+ (Test Seal Wash Pump Prime/Flow)
	2. Yield Improvement – Hard failures	Focus on top 2 failures (Hard failures)	KS Chua	-	-	-	-
Enhancement	1. eDHR	Increased process robustness	Aldwin	Alliance	Pumps	PDA Detectors	TUV Detectors
	2. Spares serial number traceability to PO.	Enhanced Baan - for SN scanning	Walter Chai	-	-	-	Plan
	3. CR - Sheet metal Value Engineering.	Sheet metal CR	Amy	-	-	-	-
	4. CR - PCBA Value Engineering.	PCBA CR	Amy	-	-	-	-
4M	1. Competency Check	ASP/TSP scrub, Operator compliance, PM/CAL,5S	Aldwin / Gary	186001525 186269506 186269505 186015080	186015031 186299800 186248900	186015033 186015032 186017003	186017002 WAT207000 186001515 186002487 186002998
	2. Capacity review & enhancement.	Submit Overall capacity (incl. testers capacity) update for FY22	Amy / Aldwin	Complete	-	-	-
	3. Tester's upgrade	Refurbishment of test equipment	Hua Zhen/Joel	-	Alliance FT (8x)	Alliance FT (8x)	-
NPI	1. Arc FTN remote training & Layout & MR	Successful transfer of Arc FTN	Natarajan/Gary	Layout & 6x Subassy Training Completed	Complete	-	-
	2. Arc Premier MR	Arc Premier provisional approval	Aldwin	-	Complete	-	-
	3. Arc HPLC transfer	Successful transfer of Arc HPLC	Gary	-	-	Plan	Plan

- Arc FTN MR completed
- 7x Arc Premier Instrument completed: 186019007 (3u), 186019008 (4u)

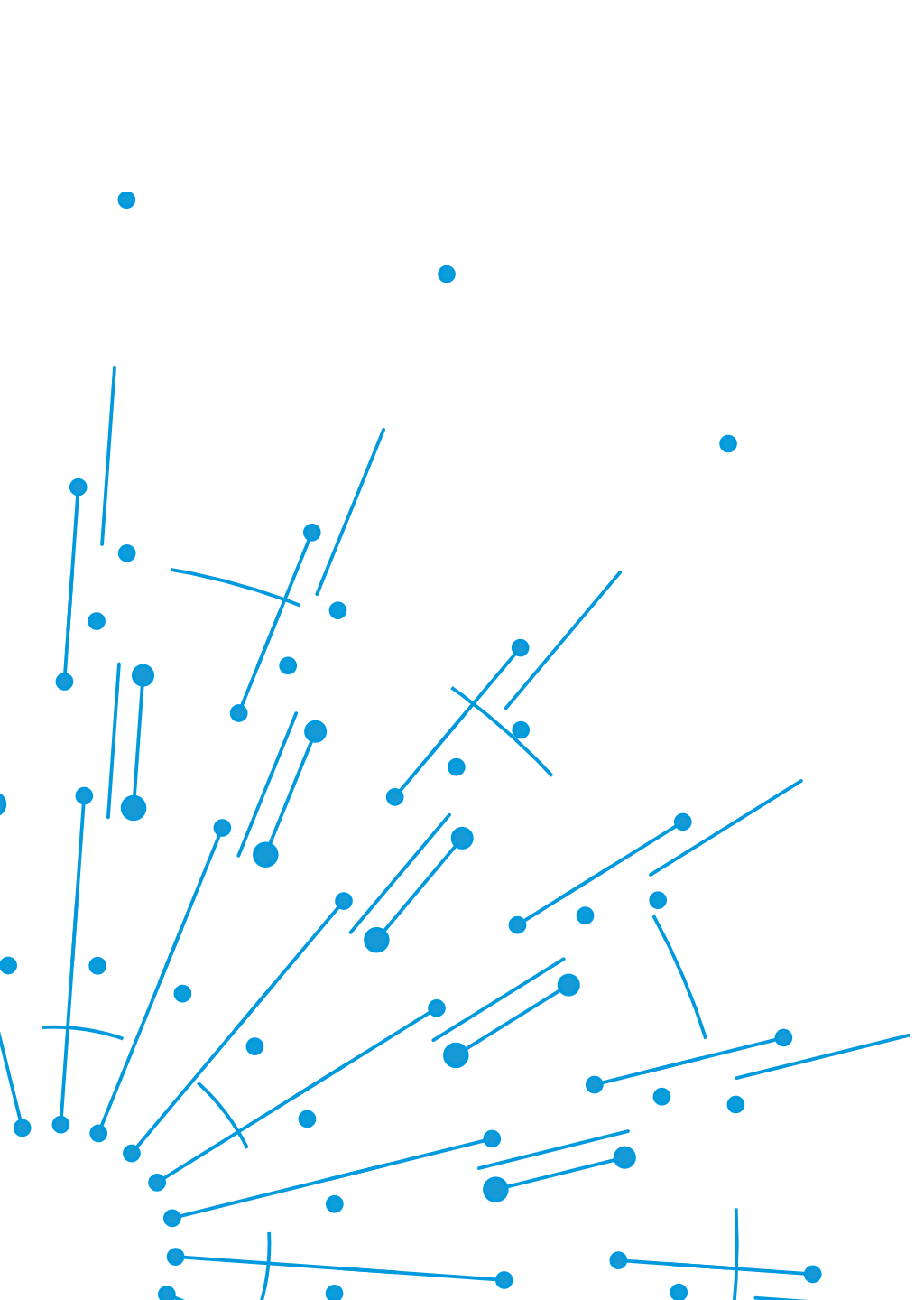
Goal and Objective

1. To achieve FPY for Detector PDA and QSM Plus Family
 - Detector PDA equal and greater 77.44%
 - QSM+ equal and greater 52.48 %
2. The approach is to optimize the test coverage through process , consumables and test enhancements. It is a conjunction efforts to work between Milford, WPPL and Flex.
3. Flex is to plot out the Pareto Charts for Detector PDA and QSM Plus Family across all the failures reported in Year 2020. Flex is to fill up all the actions taken and efforts in the past 1 year and so the upcoming as well as on going activities for yield improvement.
4. Milford and WPPL team are to provide more technical advice and actions in term of test software and specification, test and pre-inspection methods as well as the control of test samples / consumables to ensure test coverage are fully optimized and enhanced.

FPY Improvement Summary

Model	Target 2021	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Item	Progress
Alliance	84.25 %	89.95 %	92.36 %			NA	NA
QSM+	52.48 %	55.41 %	51.69 %			TOP 3 Failures: 1. Test Flow Rate Accuracy 0.5ml/min 2. Test Static Leak Decay Vent Valve to Filter/Mixer 3. Test Seal Wash Pump Prime/Flow	Test Flow Rate Accuracy 0.5ml/min : • Focus in Q2. • 4M Analysis completed. • Data collection on Interface Tubing using 36.0 IN-LBS
BSM	50.70 %	40.25 %	40.00 %			TOP 3 Failures: 1. Test Flow Rate Accuracy Pump B 2ml/min 2. Test Seal Wash Pump Prime/Flow 3. Test Alarms at Bootup	KIV as CIP 2021 focus on QSM+.
PDA Detectors	77.44 %	80.97 %	78.79 %			Communication Failure	TE82882-8 - Eric Turner updated the Relay Box Driver 19-Feb-2021 - Instruction is to used the old relay box and original wiring –completed - Monitoring performance of tester TE82882-11 - Re-install image completed and monitoring in-progress (Loaded on 08 Feb 2021) - Monitoring performance of tester TE82882-13 - Observed that Empower Project 2998_TEST have project lock and suspect causing loss comm 17-Feb-2021 - Not able to use Acronis Imaging Software 17 Feb 2021 - Utilized Clone image from Empower Project 11-Mar-2021 - Monitoring performance of tester - TE82882-13 now unlock empower
TUV Detectors	96.56 %	98.08 %	98.82 %			NA	NA
Pumps	99.85 %	99.10 %	97.73 %			1x Faulty ASSY, PCB 515 PUMP CONTROLLER (210000562) on Feb'21	RTV the PCBA back to Senai for FA

□ For Q12001 Yield as of May'21

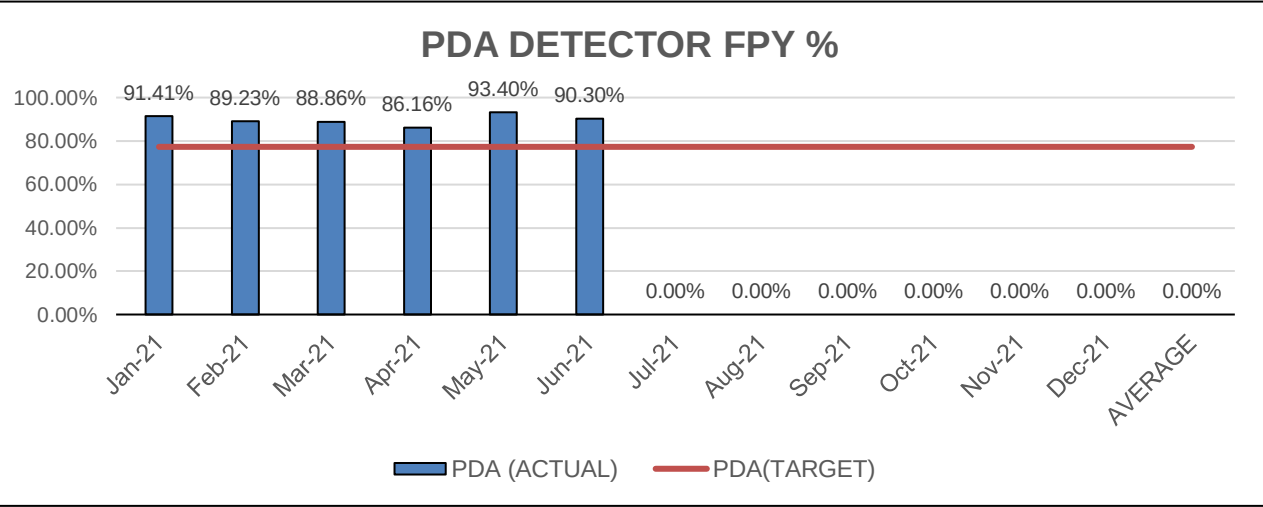


PDA Detectors –

Yield Improvement

PDA Detectors – Yield Improvement

Completed



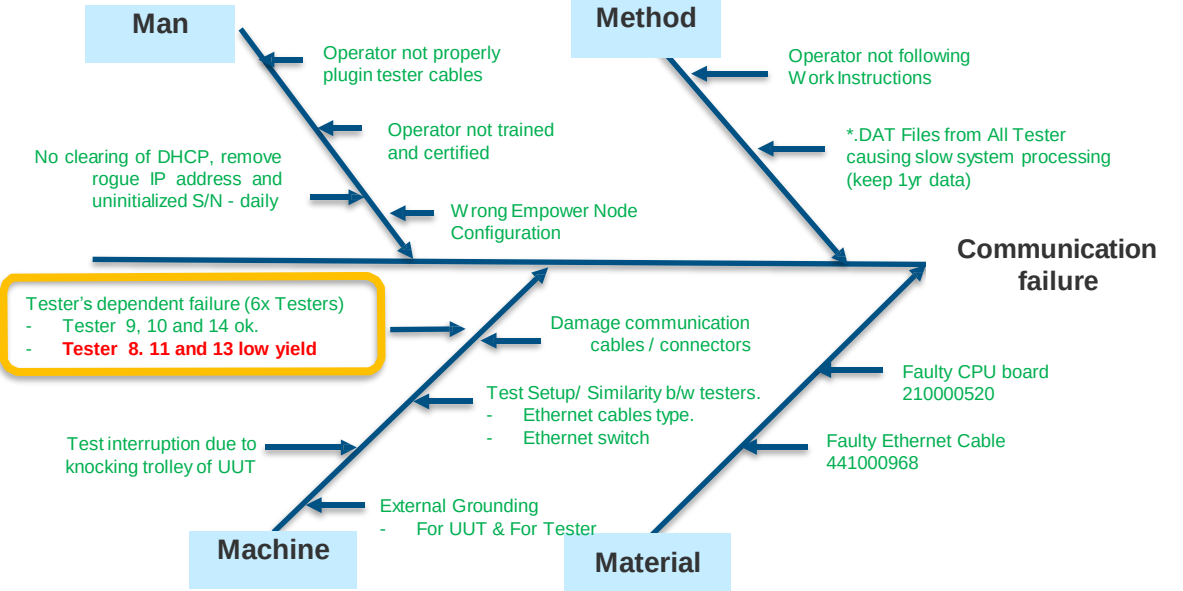
PDA DETECTOR FPY %	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	AVERAGE
PDA (ACTUAL)	91.41%	89.23%	88.86%	86.21%	93.40%	90.30%	TBD	TBD	TBD	TBD	TBD	TBD	TBD
PDA (TARGET)	77.44%	77.44%	77.44%	77.44%	77.44%	77.44%	77.44%	77.44%	77.44%	77.44%	77.44%	77.44%	77.44%

Target Sheet

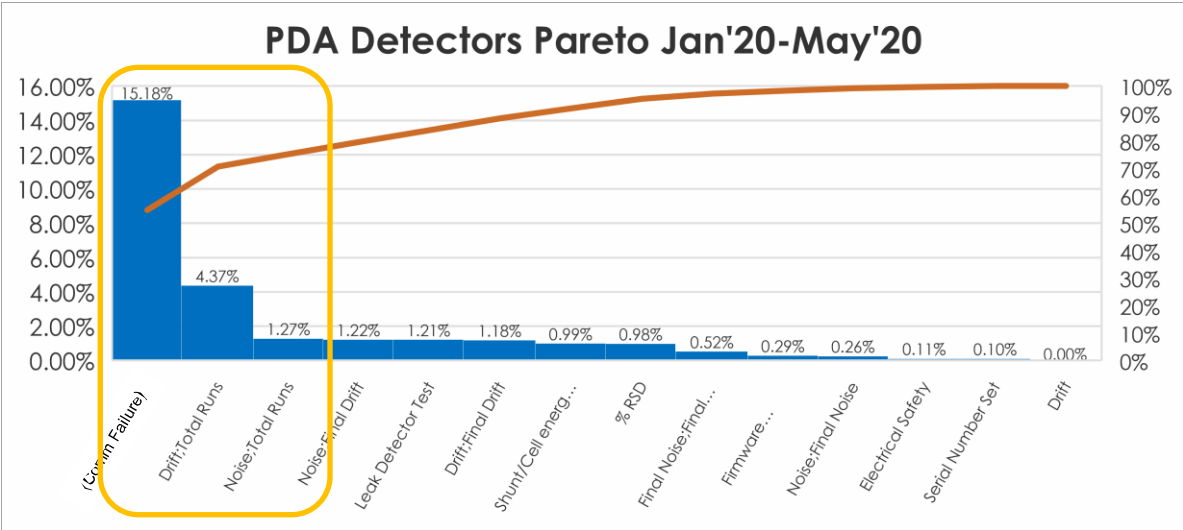
Communication Failure % (Month wise)

Total Run (Loss Comm %)	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	AVERAGE
PDA (TARGET)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
PDA (ACTUAL)	8.59%	10.77%	11.14%	13.84%	6.60%	9.70%	TBD	TBD	TBD	TBD	TBD	TBD	TBD

Done



Pareto Chart



PDA Detectors – Failure Mode

Failure Modes	PDA Detectors
Communication	15.18%
Drift; Total Runs	4.37%
Noise; Total Runs	1.27%
Noise; Final Drift	1.22%
Leak Detect Test	1.21%
Drift; Final Drift	1.18%
Shunt / cell energy failed	0.99%
%RSD	0.98%
Final Noise	0.52%
Firmware	0.29%
Noise; Final Noise	0.16%
Electrical Safety	0.11%
Serial Number Set	0.10%
Drift	0.00%
Total failure % contributed	27.58%

- Yield from Jan'20-May'20

PDA Detectors – Yield Improvement

Total Units Tested Data : as of 04 Dec 2020

Tester	Jan'20	Feb'20	Mar'20	Apr'20	May'20	Jun'20	Jul'20	Aug-20	01 Sep 2020 to 23 Sep 2020	24 Sep 2020 to 30 Sep 2020	01 Oct 2020 to 12 Oct 2020	13 Oct 2020 to 31 Oct 2020	Nov-20	Dec-20
TE82882-8	60	67	46	19	12	44	48	25	31	7	3	35	19	67
TE82882-9	116	107	108	35	28	83	25	85	51	28	64	96	156	170
TE82882-10	12	27	23	23	79	15	3	6	21	5	26	25	49	32
TE82882-11	0	3	11	41	40	0	49	40	27	15	17	43	60	35
TE82882-13	44	65	24	27	37	1	55	9	19	7	13	30	53	35
TE82882-14	94	140	118	60	34	69	20	116	56	28	66	107	173	148
TESTED	326	409	330	205	230	212	200	281	205	90	189	336	510	487

Total Units Loss Commn :

Tester	Jan'20	Feb'20	Mar'20	Apr'20	May'20	Jun'20	Jul'20	Aug-20	01 Sep 2020 to 23 Sep 2020	24 Sep 2020 to 30 Sep 2020	01 Oct 2020 to 12 Oct 2020	13 Oct 2020 to 31 Oct 2020	Nov-20	Dec-20
TE82882-8	7	8	10	1	1	17	23	5	16	7	3	10	3	1
TE82882-9	13	17	8	2	4	7	1	6	0	4	9	6	3	8
TE82882-10	5	5	9	8	8	2	3	2	10	1	8	7	6	10
TE82882-11	0	1	2	24	17	0	17	9	3	5	3	14	5	14
TE82882-13	14	20	5	8	15	0	24	5	13	4	5	13	6	8
TE82882-14	11	14	10	1	9	4	1	4	6	8	9	13	9	3
TESTED	50	65	44	44	54	30	69	31	48	29	37	63	32	44

Communication Failure rate % :

Tester	Jan'20	Feb'20	Mar'20	Apr'20	May'20	Jun'20	Jul'20	Aug-20	01 Sep 2020 to 23 Sep 2020	24 Sep 2020 to 30 Sep 2020	01 Oct 2020 to 12 Oct 2020	13 Oct 2020 to 31 Oct 2020	Nov-20	Dec-20
TE82882-8	11.67%	11.94%	21.74%	5.26%	8.33%	38.64%	47.92%	20.00%	51.61%	100.00%	100.00%	28.57%	15.79%	1.49%
TE82882-9	11.21%	15.89%	7.41%	5.71%	14.29%	8.43%	4.00%	7.06%	0.00%	14.29%	14.06%	6.25%	1.92%	4.71%
TE82882-10	41.67%	18.52%	39.13%	34.78%	10.13%	13.33%	100.00%	33.33%	47.62%	20.00%	30.77%	28.00%	12.24%	31.25%
TE82882-11	#DIV/0!	33.33%	18.18%	58.54%	42.50%	#DIV/0!	34.69%	22.50%	11.11%	33.33%	17.65%	32.56%	8.33%	40.00%
TE82882-13	31.82%	30.77%	20.83%	29.63%	40.54%	0.00%	43.64%	55.56%	68.42%	57.14%	38.46%	43.33%	11.32%	22.86%
TE82882-14	11.70%	10.00%	8.47%	1.67%	26.47%	5.80%	5.00%	3.45%	10.71%	28.57%	13.64%	12.15%	5.20%	2.03%
TESTED	15.34%	15.89%	13.33%	21.46%	23.48%	14.15%	34.50%	11.03%	23.41%	32.22%	19.58%	18.75%	6.27%	9.03%
FPY (Loss Comm)	84.66%	84.11%	86.67%	78.54%	76.52%	85.85%	65.50%	88.97%	76.59%	67.78%	80.42%	81.25%	93.73%	90.97%
Actions Taken									Data base increase for testers 8,11 and 13 on 26 Aug 20	Observed Relay issue on -8. Observed Header on pos-3 for tester-13.	Observed Relay issue on -8 : Connected directly to the LAN Card bypassing the switching relay box on 13 Oct 20. Observed Header on pos-3 for tester-13. : Replaced header of position 3 on 13 oct 2020		No action done	Commission of New Relay – Dropped out and use back original relay box.

PDA Detectors – Yield Improvement

PDA Yield Improvement Project, Reduction of Loss Communication Failure (Total Runs)

Total Units Tested Data : as of 30 Apr 2021

Tester	Jan'21	Feb'21	Mar'21	Apr'21	May'21	Jun'21	Jul'21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
TE82882-8	25	88	199	71	149	236	TBD	TBD	TBD	TBD	TBD	TBD
TE82882-9	40	100	257	102	221	237	TBD	TBD	TBD	TBD	TBD	TBD
TE82882-10	2	23	79	38	28	46	TBD	TBD	TBD	TBD	TBD	TBD
TE82882-11	1	11	35	23	51	73	TBD	TBD	TBD	TBD	TBD	TBD
TE82882-13	12	24	15	3	19	16	TBD	TBD	TBD	TBD	TBD	TBD
TE82882-14	48	116	178	53	108	93	TBD	TBD	TBD	TBD	TBD	TBD
TESTED	128	362	763	290	576	701	0	0	0	0	0	0

Total Units Loss Commn :

Tester	Jan'21	Feb'21	Mar'21	Apr'21	May'21	Jun'21	Jul'21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
TE82882-8	2	2	8	8	12	10	TBD	TBD	TBD	TBD	TBD	TBD
TE82882-9	2	11	22	9	10	24	TBD	TBD	TBD	TBD	TBD	TBD
TE82882-10	0	8	10	6	0	6	TBD	TBD	TBD	TBD	TBD	TBD
TE82882-11	1	3	7	8	2	12	TBD	TBD	TBD	TBD	TBD	TBD
TE82882-13	3	9	8	1	5	3	TBD	TBD	TBD	TBD	TBD	TBD
TE82882-14	3	6	30	8	9	13	TBD	TBD	TBD	TBD	TBD	TBD
TESTED	11	39	85	40	38	68	0	0	0	0	0	0

Communication Failure rate % :

Tester	Jan'21	Feb'21	Mar'21	Apr'21	May'21	Jun'21	Jul'21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
TE82882-8	8.00%	2.27%	4.02%	11.27%	8.05%	4.24%	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
TE82882-9	5.00%	11.00%	8.56%	8.82%	4.52%	10.13%	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
TE82882-10	0.00%	34.78%	12.66%	15.79%	0.00%	13.04%	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
TE82882-11	100.00%	27.27%	20.00%	34.78%	3.92%	16.44%	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
TE82882-13	25.00%	37.50%	53.33%	50.00%	26.32%	18.75%	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
TE82882-14	6.25%	5.17%	16.85%	15.09%	8.33%	13.98%	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Failure Rate	8.59%	10.77%	11.14%	13.84%	6.60%	9.70%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
FPY (Loss Comm)	91.41%	89.23%	88.86%	86.16%	93.40%	90.30%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

	19-Jan-2021 TE82882-8 - Update control switch driver - Re- install original Relay Box - Return wiring to original hardware connection	17-Feb-2021 TE82882-11 - Prod'n used for data recording Sigmasure Genealogy TE82882-13 - Observed lock on 2998 Empower Project	11-Mar-2021 TE82882-13 - Used 2998_Test clone and need to monitor performance after usage 24-Mar-2021 HZL used to study and understand Loss Comm behavior'		TE82882-11 20-May-2021 - Timezone always reset to 12 oct 2012 .Disable Internet Timezone and manually set to present time 11-Jun-2021 - All 5x Tester set at automatically synchronize to time server: time.windows.com	TE82882-13 11-Jun-2021 Apps collapse while mounting new unit while station is running is due to one hidden open grounding line on position 2.						
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PDA Detectors – Yield Improvement

No	Failure	% Fail 2020 (Jan-May)	% Improve 2021	Actions & Results	
				Flex	PIC / Date
1	Communication Failure	20.82%	8.00%	Tester ID: - TE82882-8 ,TE82882-9, TE82882-10, TE82882-11, TE82882-13, TE82882-14 Communication Failure: TE82882-8 - Update control switch driver - Re- install original Relay Box - Return wiring to original hardwire connection TE82882-11 - Prod'n used for data recording Sigmasure Genealogy - Timezone always reset to 12 oct 2012 .Disable Internet Timezone and manually set to present time - All 5x Tester set at automatically synchronize to time server: time.windows.com TE82882-13 - Observed lock on 2998 Empower Project - Used 2998_Test clone and need to monitor performance after usage - HZL used to study and understand Loss Comm behavior' - Apps collapse while mounting new unit while station is running is due to one hidden open grounding line on position 2.	Joel / 19-Jan-2021 Joel / 17-Feb-2021 Joel / 20-May-2021 Joel / 11-Jun-2021 Joel / 17-Feb-2021 Joel / 11-Mar-2021 Joel / 24-Mar-2021 Joel / 11Jun-2021

PDA Detectors – Yield Improvement

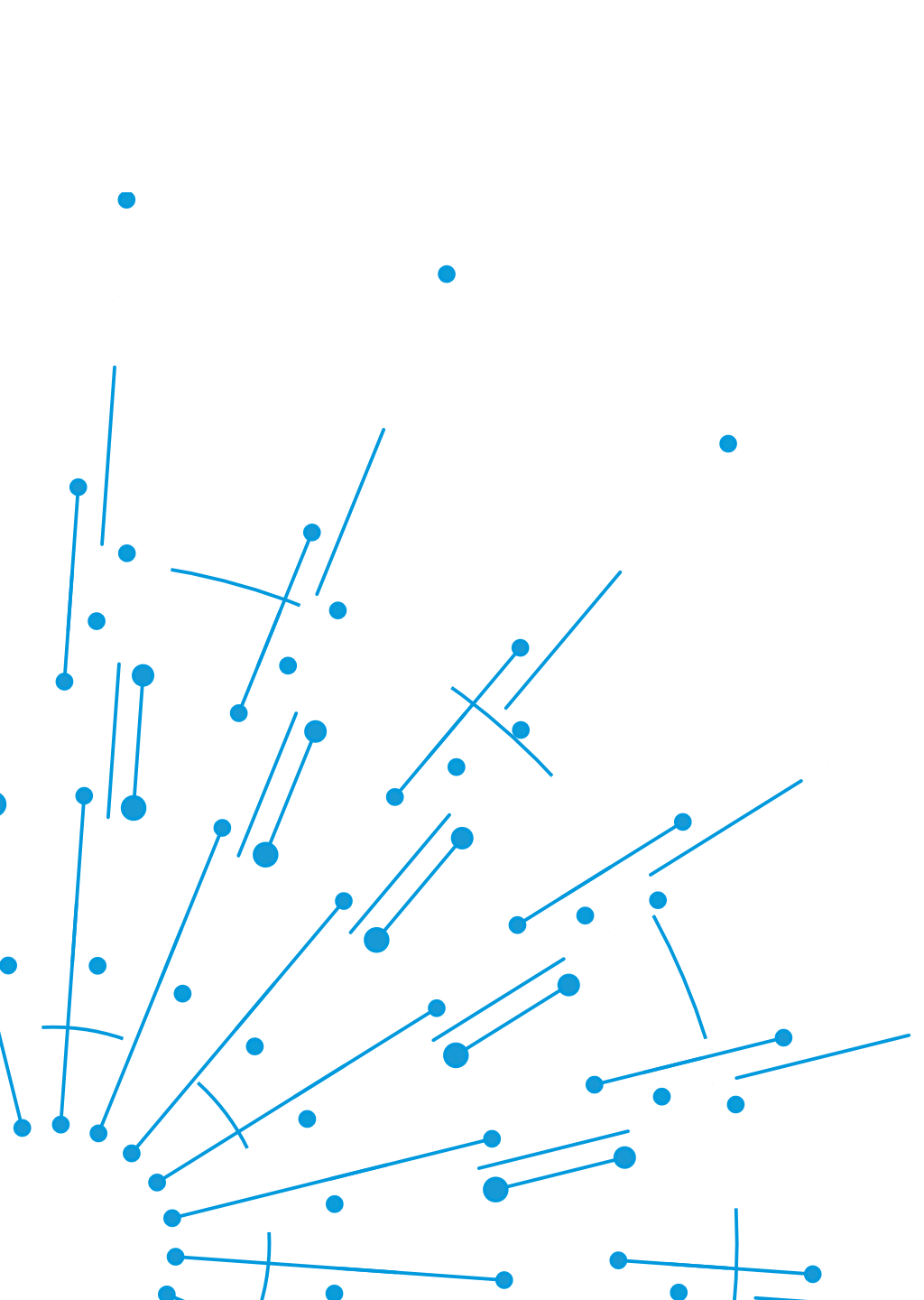
Monitoring in 2021 – Communication Failure

Done

Month	Total Unit Tested	Communication (failure%)
		2020 (Jan-May) Ref rate 20.82 % (Target 10 %)
Jan -2021	129	8.50 %
Feb -2021	358	10.06 %
Mar -2021	727	10.18 %
Apr -2021	296	11.82 %
May -2021	576	6.59 %

PDA Detectors – Communication Failure

Jan 2021	Detector PDA 2020 (Jann-May) Ref failure rate – 20.82% Achieved – 6.59% (May'21)	Improvement			
PIC	Joel, Aldwin				
Purpose					
- Focus on communication failure - Testers TE82882-8, 11 and 13 contribute to low yield.					
Progress		Project Status			
TE82882-8 19-Jan-2021: - Update control switch driver, - Re- install original Relay Box - Return wiring to original hardwire connection TE82882-11 17-Feb-2021: - Prod'n used for data recording Sigmasure Genealogy 20-May-2021: - Timezone always reset to 12 oct 2012 .Disable Internet Timezone and manually set to present time 11-Jun-2021: - All 5x Tester set at automatically synchronize to time server: time.windows.com TE82882-13 17-Feb-2021: - Observed lock on 2998 Empower Project 11-Mar-2021: - Used 2998_Test clone and need to monitor performance after usage 24-Mar-2021: - HZL used to study and understand Loss Comm behavior' 11-Jun-2021: - Apps collapse while mounting new unit while station is running is due to one hidden open grounding line on position 2.		Q1	Q2	Q3	Q4
		Completed			
Next Steps		Risks & Issues			



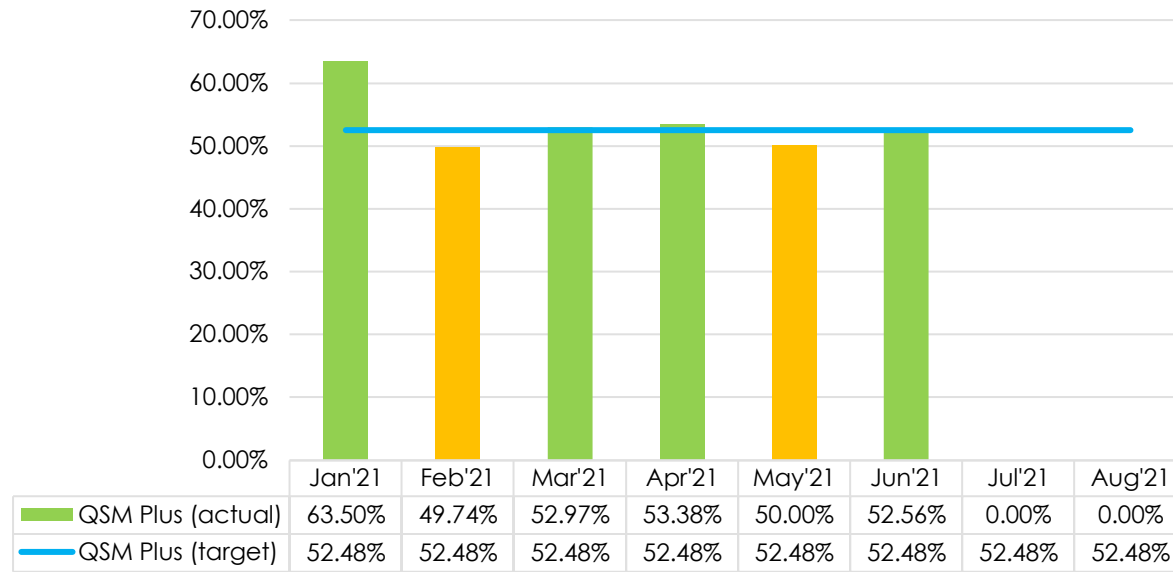
QSM Plus –

Yield Improvement

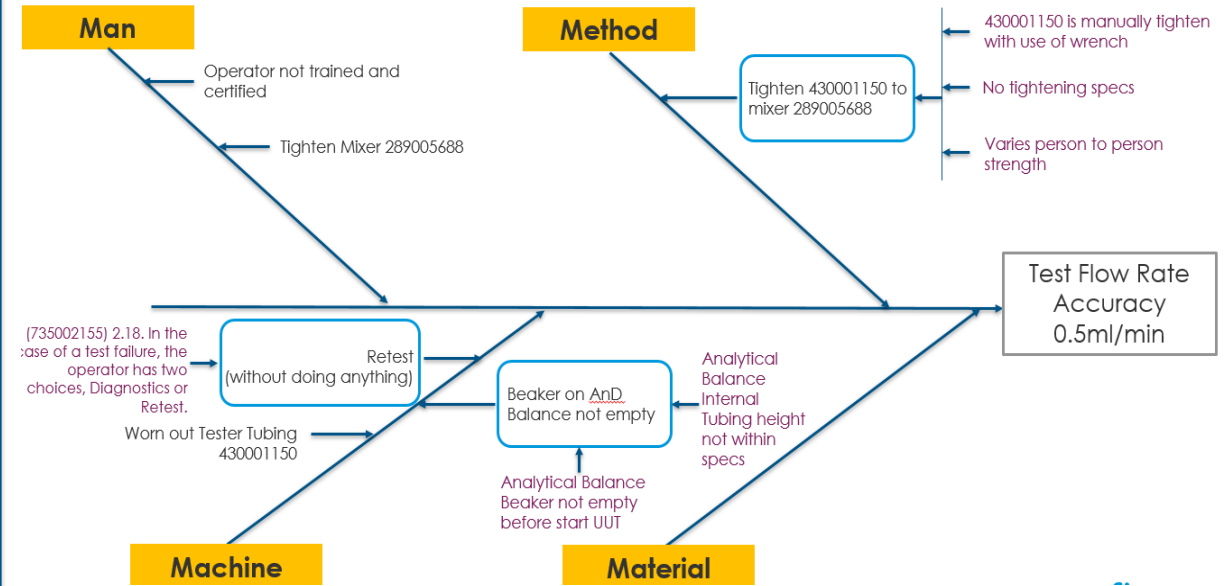
QSM+ – Yield Improvement

In-progress

QSM Plus Yield %



QSM+ – 4M : Test Flow Rate Accuracy 0.5ml/min



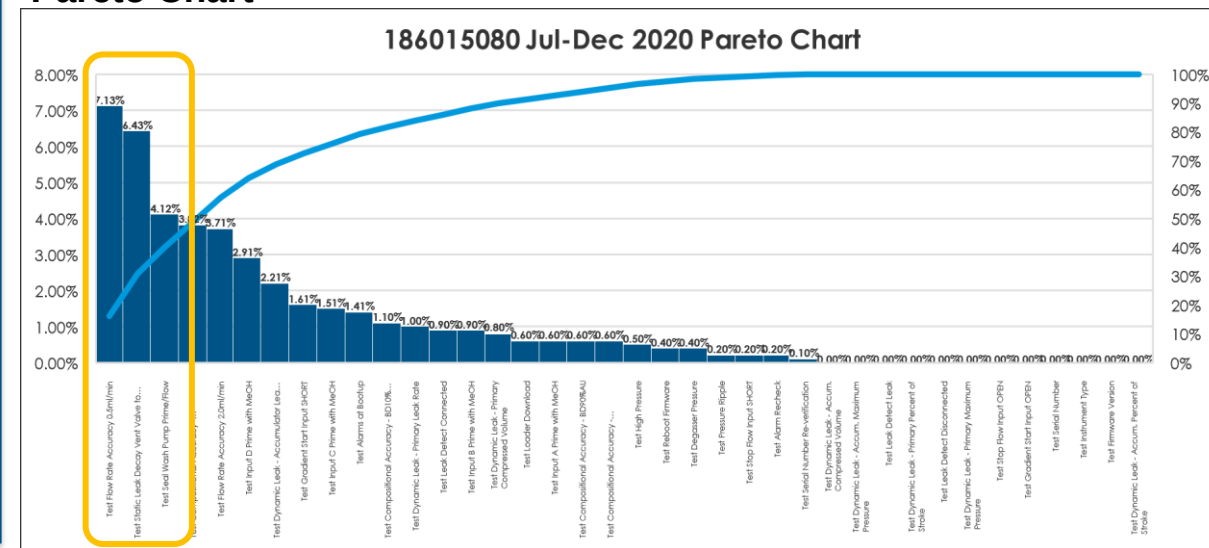
Target Sheet

Target Sheet		Jan'21	Feb'21	Mar'21	Apr'21	May'21	Jun'21	Jul'21	Aug'21
Test Flow Rate Accuracy 0.5ml/min	Target%	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70
	Actual %	11.54	4.98	3.17	3.38	4.20	3.85		

Target Sheet		Jan'21	Feb'21	Mar'21	Apr'21	May'21	Jun'21	Jul'21	Aug'21
Test Static Leak Decay Vent Valve to Filter/Mixer	Target%	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
	Actual %	3.21	7.96	7.24	6.08	6.54	4.49		

Target Sheet		Jan'21	Feb'21	Mar'21	Apr'21	May'21	Jun'21	Jul'21	Aug'21
Test Seal Wash Pump Prime/Flow	Target%	4.12	4.12	4.12	4.12	4.12	4.12	4.12	4.12
	Actual %	3.85	5.97	4.98	2.70	4.67	7.69		

Pareto Chart



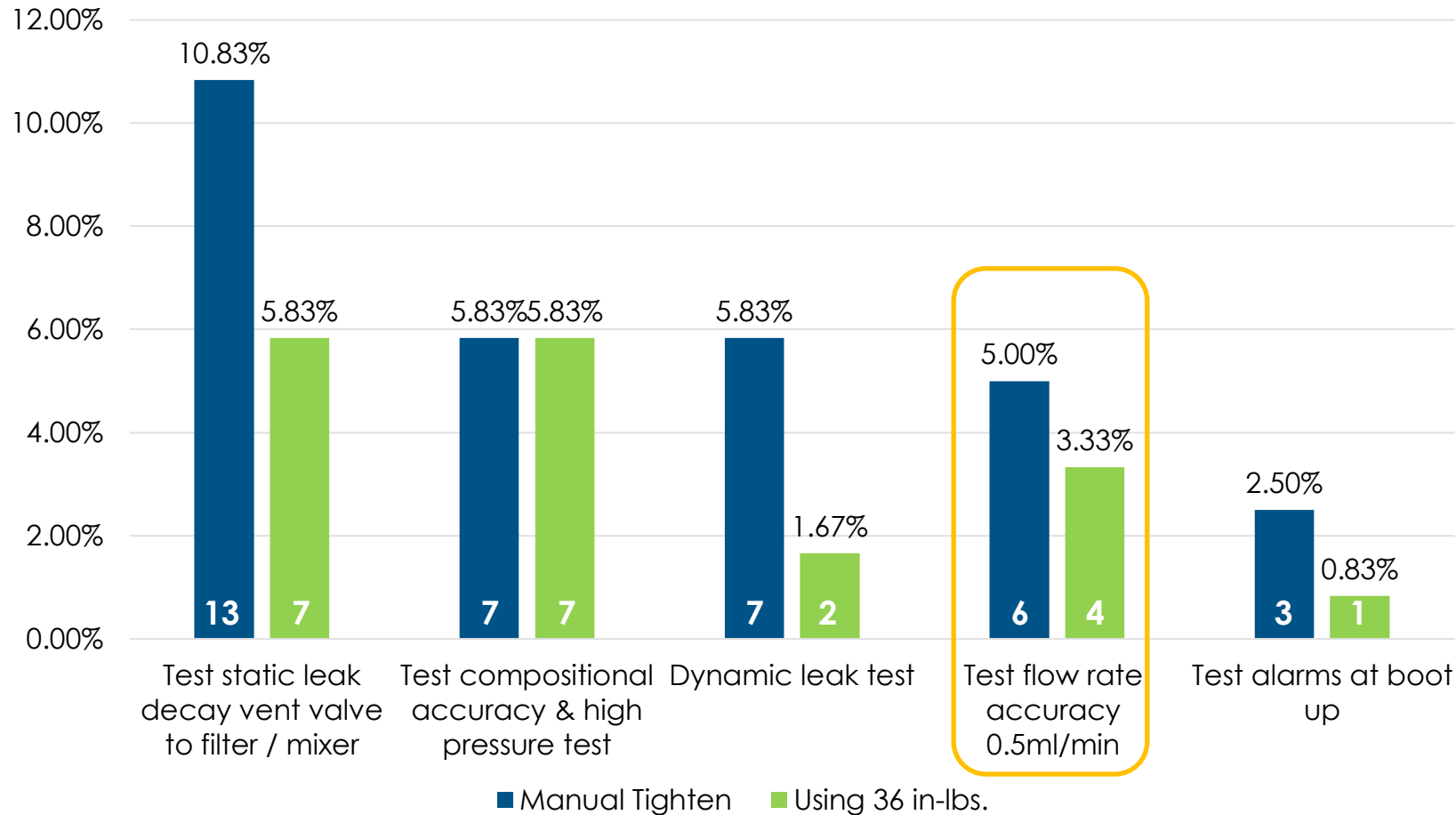
QSM+ – Yield Improvement

No	Failure	% Fail Jul'20- Dec'20	% Improve 2021	Actions & Results	
				Flex	PIC / Date
1	Overall Failure	43.98 (Overall Failure Rate = 47.52)	40.44	<u>Tester ID:</u> • TE82943-11, TE82943-12, TE82943-13, TE82943-14, TE82943-15, TE82943-16, TE82943-17, TE8943-18	
	Test Flow Rate Accuracy 0.5ml/min	7.13	5.70 (20 %)	• Monitoring in progress • Q1 focus • Setup 1x unit of QSM+ and simulated the failures • Tightening tubing (430001150) – loosen by ¼ and tighten by ½ turn with manual wrench (able to fail and pass unit) • Retest • Empty beaker • Brief production on Mark fitting with marker and tighten ¾ turn. • Evaluation using 36.0 IN-LBS to tighten interface tubing (430001150) 120 Data points collected for manual tighten vs using 36.0 IN-LBS	Aldwin, Joel / 16 Feb 21 Aldwin, Joel / 19 Mar 21 Aldwin / 23 Mar 21 Aldwin/ 25 Mar 21 (1 ~ 2 weeks)

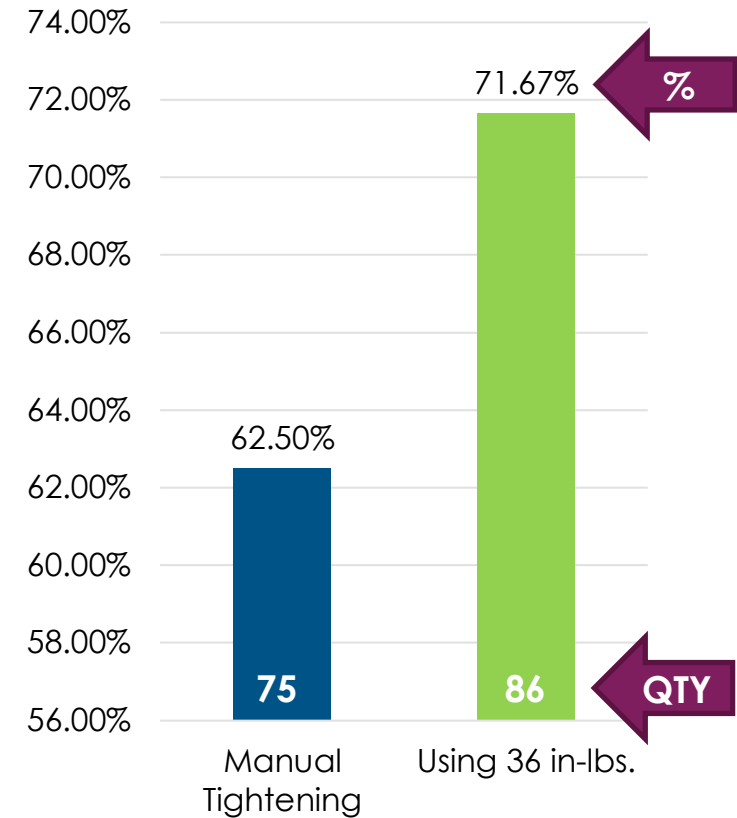
Done

QSM+ – Yield Improvement (120 datapoints)

186015080 Top 5 Failure %



186015080 First Pass %



- Pareto of First Pass based on 120 data points for Manual Tightening vs using 36.0 in-lbs.

- Pareto of Top 5 Failure based on 120 data points collected for Manual Tightening vs using 36.0 in-lbs.
- Next step is to raise EVAL Form to monitor for 3 months using 36.0 in-lbs. to tighten Interface Tubing 430001150.

QSM+ – Yield Improvement

Test Flow Rate Accuracy 0.5ml/min - Monitoring

Month	Total Unit Tested	QSM Plus (failure%)
		2020 (Jul-Dec) Ref rate 7.13 %
Jan -2021	156	11.54 %
Feb -2021	201	4.98 %
Mar -2021	221	3.17 %
Apr -2021	148	3.38 %
May -2021	214	3.74 %

QSM+ : Test Flow Rate Accuracy 0.5ml/min

Jan 2021	Jul'20-Dec'20 Ref rate 7.13 % Achieved – 3.74 % (May'21)	Improvement	To achieved 5.70 % @20%		
PIC	Aldwin, Joel				
Purpose					
Progress		Project Status			
Monitoring in progress		Q1	Q2	Q3	Q4
		Monitoring In progress (4M Analysis, Data Collection)	Completed 120 Data points collected		
Next Steps		Risks & Issues			

Competency Check Update - WPPL

Closed
 In Progress
 NA

Date	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21	Jul '21	Aug '21	Sep '21	Oct '21	Nov '21	Dec '21
Model	186001525	186269506 186269505	186248900 186015080	186015080 186248900 186015031	186299800	186015031 186299800 186248900	186015033	186015032	186017003	186017002	WAT207000 186001515	186002487 186002998

Observations

Sequence	0	0	0	0	NA							
Labelling & Identification	0	0	0	0	NA							
ASP/TSP Update	0	0	0	0	NA							
Wear & Tear	0	0	0	0	NA							
5S	0	0	0	0	NA							

- Zero competency findings during Jan'21 to Apr'21 checks.
- Competency Check for May 2021 is postponed due to Covid Phase 2A.

Competency Check Update - FLEX

Closed In Progress

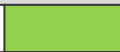
Date	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21	Jul '21	Aug '21	Sep '21	Oct '21	Nov '21	Dec '21
Model	186001525	186269506 186269505	186248900 186015080	186015080 186248900 186015031	186299800	186015031 186248900	186015033	186015032	186017003	186017002	WAT207000 186001515	186002487 186002998

Observations

Sequence	0	0	0	0	0	0						
Labelling & Identification	0	0	0	0	0	0						
ASP/TSP Update	0	0	1	0	0	0						
Wear & Tear	0	0	0	0	0	0						
5S	0	0	0	0	0	0						

- Zero competency findings during Jan'21, Feb'21, Apr'21, May'21, Jun'21 checks.

S/N	Date	Observation	Actions Taken	Status
1	16 Mar 21	279003870 ASSY, QSM PLUS OPER 2.1 & 2.2 & 2.16 callout and instructions from "Date of Manufacture" to "Part Number"	Drafted copy received, reviewed and verified on 17 Mar 21 - Pending ECR 9240449	Closed

No.	Activity	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21	Jul '21	Aug '21	Sep '21	Oct '21	Nov '21	Dec '21
Alliance													
7	Submission / Approval of Flex Change Request and WPPL PCN												
8	Go Live eDHR for Alliance												
9	Removal of Alliance manual DHR												
Pump (All models)													
1	eDHR Project Kick Off Meeting with internal team.												
2	Identify requirements. Map details of manual DHR												
3	Creation of the eDHR matrix												
4	Testing of eDHR matrix in test server												
5	Communication and training												
6	Deployment of eDHR to Production for trials												
7	Submission / Approval of Flex Change Request and WPPL PCN							Plan					
8	Go Live eDHR for Pumps								Plan				
9	Removal of manual DHR									Plan			
Detector(PDA & TUV models)													
1	eDHR Project Kick Off Meeting with internal team.												
2	Identify requirements. Map details of manual DHR												
3	Creation of the eDHR matrix												
4	Testing of eDHR matrix in test server												
5	Communication and training							Plan					
6	Deployment of eDHR to Production for trials							Plan	Plan	Plan			
7	Submission / Approval of Flex Change Request and WPPL PCN										Plan		
8	Go Live eDHR for Detector(PDA & TUV models)											Plan	
9	Removal of manual DHR												Plan

- BSM, QSM+ and Alliance eDHR Go Live
- Pump and Detectors (PDA & TUV) eDHR in progress

flex.

Thank You

