SQA Metric Items From FPA Spreadsheet - Feburary 2018

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Abstract

Evaulation of various potential matrics, performance indicators from the Excel workbook that Software Quality Assurance collected called First Pass Acceptance. This will only be run for the month of January 2018. 1

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 $^{^{1}\}mathrm{Date}$ Ran: Tuesday 6^{th} March, 2018 at 13:39

1 Introduction

The data is processed using R², Version 3.4.3 named Kite-Eating Tree. The only extension (package or library) utilized is lubridate (version 1.7.1) to provide key functionality in the processing of dates.

The data is read into R from a comma seperated value (csv) file which is derived (saved) from the spreadsheet without modification. Additional values are computed as needed.

This report is prepared in the R environment using a collection of packages know as Sweave that included knitr which in turn feeds the package into LATEX 2_{ε} a typeseting program to produce a PDF file. LATEX 2_{ε} in implented in MiTeX. LATEX 2_{ε} is utilizing the following packages to control style and formating:

- datetime and
- multitoc

This will only show a point in time summary and no trends.

2 Data and Calculations

2.1 Data

A seperate data dictionary will be prepared to for both the source data and computed values stored in R.

2.2 Calculations

All calculations presented here have not been implemented in R as formulas.

3 Work Yet to be Completed

3.1 Formula

Some calculations would be better implemented as formulas. The calculations need to be evulated and the formulas developed where needed.

3.2 Trending

Eventually the "System" will be updated to select the data on a for a calander month. After processing the resulots will be stored in a seperate file. This will allow for longer term trending of this data.

3.2.1 Graphs

When "trending" is implented graphs of the trends will also be added.

 $^{^2\}mathrm{RStudio}$ is utilized as an IDE

4 Quanity Metrics

4.1 Application supported

This is a list of all application support this period.

Note: Alphabatize the list

```
[1] "QIMS"
                                       "WWLIMS"
[3] "Alinity Source Verifier"
                                       "DaVinci"
[5] "Metrics Library"
                                       "SAS"
[7] "AFMS"
                                       "Pulse"
[9] "DFCS"
                                       "PEAR"
[11] "EDMS"
                                       "TODS"
[13] "PCN/SCN"
                                       "Groninger"
[15] "DARA Filler DHM and RU"
                                       "BioCommand Batch Control Plus"
[17] "CMSNext"
                                       "Apollo/PHM"
[19] "GS Reports"
                                       "Navigator"
[21] "Assay File Database"
                                       "eNovator"
[23] "TrendReader"
```

4.2 Number of Projects

The total number of projects worked on in this period. This may differ from the application list because some applications may have more than one project in the periond.

[1] 47

4.3 Number of Reviews

This is the number of items reviewed, a document will be counted more than once if it is reviewed more than once.

[1] 300

4.4 Number of Items Reviewed

This is the number of unique items reviewed, each item is only counted once regardless of how many times it is reviewed.

Note: This is reporting low due to certian items having no way to descrimate between such as multiple executions of the same test script or results from an IIVP run on different computers within the same project.

[1] 237

4.5 Number of Projects Started

The point at which a project is started is when version 1 of the *Software Change Request* is approved.

Note: This now counts ML type projects (Metrics Library and GS Reports) using the Project Plan as the point that a project starts.

[1] 13

4.6 Projects Completed

The point at which a project is considered completed is when version 1 of the *System Certification Summary* is approved.

Note: now counts GS (Global Service) Reports Move to Production as the end of project.

[1] 10

4.7 Number Of Deliverables by Type

This is unique for each deliverable. It only counts each document once so a deliverable that is disapproved and then approved is only counted once.

0 11	at t
Cancellation	CII
2	13
Design Documentation	Design Verification
2	11
ERES	FRS
1	3
IDP	IIVP
2	5
IIVP results	ISSD
41	2
Move to Production	Other
0	0
Project Plan	Release Notes
6	2
Software Change Request	Software Compliance Assessment
13	6
System Certification Summary	Test Protocol
10	46
- *	
Test Protocol Results	Traceability
37	15
URS	User Acceptance Protocol
1	5
User Acceptance Protocol results	Validation Plan
13	1
10	1

4.8 Number of Deliverable by Application

This is the number of unique deliverables that each application submitted. It only counts each document once, regardless of the status.

AFMS	Abbott Transfusion Medicine
21	0
Apollo/PHM	Alinity Source Verifier
4	15
BioCommand Batch Control Plus	· ·
1	1
DARA Filler DHM and RU	CMSNext
5	7
DFCS	DaVinci
10	1
EDMS	DPW
4	0
Groninger	eNovator
3	1
ideaPoint	GS Reports
0	3
Metrics Library	IRIS
17	0
PCN/SCN	Navigator
8	2
Pulse	PEAR
44	3
Reliasoft Xfmea	QIMS
0	15
TODS	SAS
6	1
WWLIMS	TrendReader
63	2

4.9 Number of Approvals, Disapprovals, and First Pass Approvals

A A-FP D 55 203 42

4.10 Table of Deliverables by Application

	Cancellation	CII	Design	Documentation
Abbott Transfusion Medicine	e 0	0		0
AFMS	0	1		0
Alinity Source Verifier	0	1		0
Apollo/PHM	0	0		0

Assay File Database		0	0				0
BioCommand Batch Control Plus		0	0				0
CMSNext		0	0				0
DARA Filler DHM and RU		0	0				0
DaVinci		0	0				0
DFCS		0	1				0
DPW		0	0				0
EDMS		0	0				0
eNovator		0	0				0
Groninger		0	1				0
GS Reports		0	0				0
ideaPoint		0	0				0
IRIS		0	0				0
Metrics Library		0	0				2
Navigator		2	0				0
PCN/SCN		0	1				0
PEAR		0	0				0
Pulse		0	2				0
QIMS		0	1				0
Reliasoft Xfmea		0	0				0
SAS		0	0				0
TODS		0	0				0
TrendReader		0	0				0
WWLIMS		0	5				0
	Design	Verifi					
Abbott Transfusion Medicine	Design	Verifi	0	0	0	0	0
AFMS	Design	Verifi	0	0	0	0 1	0 0
AFMS Alinity Source Verifier	Design	Verifi	0 0 1	0 0 0	0 0 1	0 1 0	0 0 1
AFMS Alinity Source Verifier Apollo/PHM	Design	Verifi	0 0 1 0	0 0 0	0 0 1 0	0 1 0 0	0 0 1 0
AFMS Alinity Source Verifier Apollo/PHM Assay File Database		Verifi	0 0 1 0	0 0 0 0	0 0 1 0	0 1 0 0	0 0 1 0
AFMS Alinity Source Verifier Apollo/PHM Assay File Database BioCommand Batch Control Plus		Verifi	0 0 1 0 0	0 0 0 0	0 0 1 0 0	0 1 0 0 0	0 0 1 0 0
AFMS Alinity Source Verifier Apollo/PHM Assay File Database BioCommand Batch Control Plus CMSNext		Verifi	0 0 1 0 0 0	0 0 0 0 0	0 0 1 0 0 0	0 1 0 0 0 0	0 0 1 0 0 0
AFMS Alinity Source Verifier Apollo/PHM Assay File Database BioCommand Batch Control Plus CMSNext DARA Filler DHM and RU		Verifi	0 0 1 0 0 0 0	0 0 0 0 0 0 0	0 0 1 0 0 0	0 1 0 0 0 0 0	0 0 1 0 0 0 0
AFMS Alinity Source Verifier Apollo/PHM Assay File Database BioCommand Batch Control Plus CMSNext DARA Filler DHM and RU DaVinci		Verifi	0 0 1 0 0 0 0	0 0 0 0 0 0 0 0	0 0 1 0 0 0 0	0 1 0 0 0 0 0 0	0 0 1 0 0 0 0
AFMS Alinity Source Verifier Apollo/PHM Assay File Database BioCommand Batch Control Plus CMSNext DARA Filler DHM and RU DaVinci DFCS		Verifi	0 0 1 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1	0 0 1 0 0 0 0 0	0 1 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0
AFMS Alinity Source Verifier Apollo/PHM Assay File Database BioCommand Batch Control Plus CMSNext DARA Filler DHM and RU DaVinci DFCS DPW		Verifi	0 0 1 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 0	0 0 1 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0
AFMS Alinity Source Verifier Apollo/PHM Assay File Database BioCommand Batch Control Plus CMSNext DARA Filler DHM and RU DaVinci DFCS DPW EDMS		Verifi	0 0 1 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 1 0 0	0 0 1 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0
AFMS Alinity Source Verifier Apollo/PHM Assay File Database BioCommand Batch Control Plus CMSNext DARA Filler DHM and RU DaVinci DFCS DPW EDMS eNovator		Verifi	0 0 1 0 0 0 0 0 0 1 0	0 0 0 0 0 0 0 1 0 0 0	0 0 1 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 1 0 0
AFMS Alinity Source Verifier Apollo/PHM Assay File Database BioCommand Batch Control Plus CMSNext DARA Filler DHM and RU DaVinci DFCS DPW EDMS eNovator Groninger		Verifi	0 0 1 0 0 0 0 0 0 1 0 1	0 0 0 0 0 0 0 1 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 1 0 0
AFMS Alinity Source Verifier Apollo/PHM Assay File Database BioCommand Batch Control Plus CMSNext DARA Filler DHM and RU DaVinci DFCS DPW EDMS eNovator Groninger GS Reports		Verifi	0 0 1 0 0 0 0 0 0 1 0 1 0	0 0 0 0 0 0 0 1 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0
AFMS Alinity Source Verifier Apollo/PHM Assay File Database BioCommand Batch Control Plus CMSNext DARA Filler DHM and RU DaVinci DFCS DPW EDMS eNovator Groninger GS Reports ideaPoint		Verifi	0 0 1 0 0 0 0 0 0 1 0 1 0 0	0 0 0 0 0 0 0 1 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AFMS Alinity Source Verifier Apollo/PHM Assay File Database BioCommand Batch Control Plus CMSNext DARA Filler DHM and RU DaVinci DFCS DPW EDMS eNovator Groninger GS Reports ideaPoint IRIS		Verifi	0 0 1 0 0 0 0 0 0 1 0 1 0 0	0 0 0 0 0 0 0 1 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AFMS Alinity Source Verifier Apollo/PHM Assay File Database BioCommand Batch Control Plus CMSNext DARA Filler DHM and RU DaVinci DFCS DPW EDMS eNovator Groninger GS Reports ideaPoint IRIS Metrics Library		Verifi	0 0 0 0 0 0 0 0 1 0 1 0 0 0	0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AFMS Alinity Source Verifier Apollo/PHM Assay File Database BioCommand Batch Control Plus CMSNext DARA Filler DHM and RU DaVinci DFCS DPW EDMS eNovator Groninger GS Reports ideaPoint IRIS		Verifi	0 0 1 0 0 0 0 0 0 1 0 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

PEAR Pulse			1 2	0	0	0	0	
QIMS			1	0	0	0	0	
Reliasoft Xfmea			0	0	0	0	0	
SAS			0	0	0	0	0	
TODS			0	0	0	0	0	
TrendReader			0	0	0	0	1	
WWLIMS			3	0	0	0	0	
	IIVP results		Move	to	Pro	duct		Other
Abbott Transfusion Medicine	0	0					0	0
AFMS	1	1					0	0
Alinity Source Verifier	2	0					0	0
Apollo/PHM	0	0					0	0
Assay File Database	0	0					0	0
BioCommand Batch Control Plus	1	0					0	0
CMSNext	0	0					0	0
DARA Filler DHM and RU	0	0					0	0
DaVinci	1	0					0	0
DFCS	2	0					0	0
DPW	0	0					0	0
EDMS	0	0					0	0
eNovator	0	1					0	0
Groninger	0	0					0	0
GS Reports	0	0					0	0
ideaPoint	0	0					0	0
IRIS	0	0					0	0
Metrics Library	0	0					0	0
Navigator	0	0					0	0
PCN/SCN	2	0					0	0
PEAR	0	0					0	0
Pulse	3	0					0	0
QIMS	4	0					0	0
Reliasoft Xfmea	0	0					0	0
SAS	0	0					0	0
TODS	0	0					0	0
TrendReader	1	0					0	0
WWLIMS	24	0					0	0
WHILID	21	Ŭ					Ū	Ū
	Project Plan	Rolos	asa N	1+4	2			
Abbott Transfusion Medicine	0	100100	IV)			
AFMS	0)			
Alinity Source Verifier	0				1			
Apollo/PHM	0)			
Assay File Database	1)			
BioCommand Batch Control Plus	0)			
DISCOMMAND DATEN CONTINUE PIUS	U			,	,			

CMSNext	0	0
DARA Filler DHM and RU	1	0
DaVinci	0	0
DFCS	0	1
DPW	0	0
EDMS	0	0
eNovator	0	0
Groninger	0	0
GS Reports	3	0
ideaPoint	0	0
IRIS	0	0
Metrics Library	1	0
Navigator	0	0
PCN/SCN	0	0
PEAR	0	0
Pulse	0	0
QIMS	0	0
Reliasoft Xfmea	0	0
SAS	0	0
TODS	0	0
TrendReader	0	0
WWLIMS	0	0

Software Change Request

Abbott Transfusion Medicine	0
AFMS	0
Alinity Source Verifier	1
Apollo/PHM	1
Assay File Database	0
BioCommand Batch Control Plus	0
CMSNext	0
DARA Filler DHM and RU	1
DaVinci	0
DFCS	0
DPW	0
EDMS	1
eNovator	0
Groninger	0
GS Reports	0
ideaPoint	0
IRIS	0
Metrics Library	0
Navigator	0
PCN/SCN	0
PEAR	1
Pulse	5

QIMS		0	
Reliasoft Xfmea		0	
SAS		0	
TODS		2	
TrendReader		0	
WWLIMS		1	
***************************************		-	
	Software Compliance	Assessmen	nt
Abbott Transfusion Medicine			0
AFMS			0
Alinity Source Verifier			1
Apollo/PHM			0
Assay File Database			0
BioCommand Batch Control Plus			0
CMSNext			0
DARA Filler DHM and RU			1
DaVinci			0
DFCS			0
DPW			0
EDMS			2
eNovator			0
			0
Groninger			
GS Reports			0
ideaPoint			0
IRIS			0
Metrics Library			0
Navigator			0
PCN/SCN			0
PEAR			1
Pulse			1
QIMS			0
Reliasoft Xfmea			0
SAS			0
TODS			0
TrendReader			0
WWLIMS			0
	~ . ~	~	
A11 The Control of the Control o	System Certification	=	
Abbott Transfusion Medicine		0	0
AFMS		1	7
Alinity Source Verifier		1	2
Apollo/PHM		1	1
Assay File Database		0	0
BioCommand Batch Control Plus		0	0
CMSNext		0	7
DARA Filler DHM and RU		0	0

DaVinci	0	0
DFCS	1	0
DPW	0	0
EDMS	0	0
eNovator	0	0
Groninger	0	0
GS Reports	0	0
ideaPoint	0	0
IRIS	0	0
Metrics Library	1	7
Navigator	0	0
PCN/SCN	1	1
PEAR	0	0
Pulse	1	17
QIMS	1	0
Reliasoft Xfmea	0	0
SAS	1	0
TODS	0	2
TrendReader	0	0
WWLIMS	1	2

Test Protocol Results Traceability URS Abbott Transfusion Medicine AFMS Alinity Source Verifier Apollo/PHM Assay File Database BioCommand Batch Control Plus CMSNext DARA Filler DHM and RU DaVinci **DFCS** DPW **EDMS** eNovator Groninger **GS** Reports ideaPointIRIS Metrics Library Navigator PCN/SCN PEAR Pulse QIMS Reliasoft Xfmea

SAS	0	0	0
TODS	2	0	0
TrendReader	0	0	0
WWLIMS	16	2	1

User Acceptance Protocol

	oser	Acceptance	FIGURE
Abbott Transfusion Medicine			0
AFMS			1
Alinity Source Verifier			0
Apollo/PHM			0
Assay File Database			0
BioCommand Batch Control Plus			0
CMSNext			0
DARA Filler DHM and RU			0
DaVinci			0
DFCS			0
DPW			0
EDMS			0
eNovator			0
Groninger			0
GS Reports			0
ideaPoint			0
IRIS			0
Metrics Library			0
Navigator			0
PCN/SCN			0
PEAR			0
Pulse			0
QIMS			4
Reliasoft Xfmea			0
SAS			0
TODS			0
TrendReader			0
WWLIMS			0

User Acceptance Protocol results

Abbott Transfusion Medicine	0
AFMS	1
Alinity Source Verifier	0
Apollo/PHM	0
Assay File Database	0
BioCommand Batch Control Plus	0
CMSNext	0
DARA Filler DHM and RU	0
DaVinci	0
DFCS	2

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Validation Plan Abbott Transfusion Medicine AFMS 0 Alinity Source Verifier 0 Apollo/PHM 0 0 Assay File Database BioCommand Batch Control Plus 0 0 CMSNext DARA Filler DHM and RU 1 0 DaVinci DFCS 0 DPW 0 **EDMS** 0 0 eNovator ${\tt Groninger}$ 0 0 GS Reports ${\tt ideaPoint}$ 0 0 IRIS Metrics Library 0 Navigator 0 PCN/SCN 0 PEAR 0 Pulse 0 QIMS 0 Reliasoft Xfmea 0 0 SAS TODS 0

TrendReader	0
WWLIMS	0

4.11 Table of Rejection Reasons

Incorrect scope	Inaccurate information
0	23
Insufficient traceability	Insufficient testing
1	3
Not following document version control	Not compliant with procedure
0	11
Other	Not using template
1	1
	Requirement deficiency
	0

4.12 Defects Verses Application

	${\tt Inaccurate}$	$\verb"information"$	${\tt Incorrect}$	scope
AFMS		3		0
Alinity Source Verifier		2		0
Apollo/PHM		1		0
Assay File Database		0		0
DaVinci		1		0
DFCS		4		0
eNovator		0		0
PCN/SCN		1		0
PEAR		1		0
Pulse		1		0
QIMS		0		0
TODS		0		0
WWLIMS		8		0

	Insufficient	testing	Insufficient	traceability
AFMS		0		1
Alinity Source Verifier		0		0
Apollo/PHM		0		0
Assay File Database		0		0
DaVinci		0		0
DFCS		0		0
eNovator		0		0
PCN/SCN		0		0
PEAR		0		0
Pulse		1		0
QIMS		0		0
TODS		0		0

WWLIMS 2 0

	Not	compliant	with	procedure
AFMS				3
Alinity Source Verifier				0
Apollo/PHM				1
Assay File Database				1
DaVinci				0
DFCS				0
eNovator				1
PCN/SCN				2
PEAR				0
Pulse				0
QIMS				0
TODS				3
WWLIMS				0

Not following document version control AFMS Alinity Source Verifier 0 Apollo/PHM 0 Assay File Database 0 DaVinci 0 DFCS 0 0 eNovator PCN/SCN 0 PEAR 0 Pulse 0 QIMS 0 TODS 0 WWLIMS 0

	Not	using	template	Other	Requirement	deficiency
AFMS			0	0		0
Alinity Source Verifier			0	0		0
Apollo/PHM			0	0		0
Assay File Database			0	0		0
DaVinci			0	0		0
DFCS			0	0		0
eNovator			0	0		0
PCN/SCN			1	0		0
PEAR			0	0		0
Pulse			0	0		0
QIMS			0	0		0
TODS			0	0		0
WWLIMS			0	1		0

4.13 Defects Verses Deliverable

> table(as.character(subset(FPA, subset = (status == "D"))\$deliverable),
+ subset(FPA, subset = (status == "D"))\$reason)

	Inaccurate	information	Incorrect	scope
CII		1		0
IIVP		1		0
IIVP results		3		0
ISSD		2		0
Project Plan		0		0
Software Change Request		3		0
System Certification Summary		5		0
Test Protocol		1		0
Test Protocol Results		3		0
Traceability		2		0
User Acceptance Protocol results		1		0

	Tranfficient	+00+inm
	Insufficient	resting
CII		0
IIVP		0
IIVP results		1
ISSD		0
Project Plan		0
Software Change Request		0
System Certification Summary		0
Test Protocol		1
Test Protocol Results		1
Traceability		0
User Acceptance Protocol results		0

	Insufficient t	raceability
CII		0
IIVP		0
IIVP results		0
ISSD		0
Project Plan		0
Software Change Request		0
System Certification Summary		0
Test Protocol		0
Test Protocol Results		0
Traceability		1
User Acceptance Protocol results		0

 $$\operatorname{\textsc{Not}}$$ compliant with procedure CII $$\operatorname{\textsc{OIIVP}}$$ 0

IIVP results ISSD Project Plan Software Change Request System Certification Summary Test Protocol Test Protocol Results Traceability User Acceptance Protocol results		2 1 1 0 0 2 4 1
	Not following document	version control
CII	G	0
IIVP		0
IIVP results		0
ISSD		0
Project Plan		0
Software Change Request		0
System Certification Summary		0
Test Protocol		0
Test Protocol Results		0
Traceability		0
User Acceptance Protocol results		0
	Not using template Oth	er
CII	0	0
IIVP	0	0
IIVP results	0	0
ISSD	0	0
Project Plan	0	0
Software Change Request	0	0
System Certification Summary	0	0
Test Protocol	0	0
Test Protocol Results	1	1
Traceability	0	0
User Acceptance Protocol results	0	0
	Requirement deficiency	
CII	nequirement deficiency	
IIVP	0	
IIVP results	0	
ISSD	0	
Project Plan	0	
Software Change Request	0	
System Certification Summary	0	
Test Protocol	0	
Test Protocol Results	0	

Traceability		0
User Acceptance Protocol	results	0

4.14 Rejection Reason by Deliverable

CII	IIVP
1	1
IIVP results	ISSD
6	3
Project Plan	Software Change Request
1	3
System Certification Summary	Test Protocol
6	4
Test Protocol Results	Traceability
11	5
User Acceptance Protocol results	
1	

4.15 Number of Rejections by Project

AFMS	Alinity Source Verifier	Apollo/PHM
8	3	2
Assay File Database	DaVinci	DFCS
1	1	4
eNovator	PCN/SCN	PEAR
1	4	1
Pulse	QIMS	TODS
2	1	3
WWLIMS		
11		

5 Rate Metrics

5.1 Document Approval Rate

This is portion of documents that are approved upon review.

It is computed by counting the number of approvals devided that by the total number of reviews.

[1] 0.85

5.2 First Pass Acceptance

this is the portion of documents that are approved on the first review conducted by SQA.

It is computed by counting the number of first pass approvals devided by the number of reviews.

[1] 0.6666667