

# Data Sample

The Clover system will primarily deal with calibration data of variation equipment audited by the ACDS. As such the majority of data will be in the format of audit forms filled out by ACDS auditors. The following are samples of data that the system will contain/use.

## 1. Calibration data

User stories: 1.1, 1.2, 1.3, 2.4

A singular machine's calibration data from an audit.

### Current System:

Chamber calibration factors												
Model	Expired or Current?	s/n	Report date	Cal #	N_D,w,Q_o mGy/nC	k_s Co-60	6	6FFF	10	10FFF	15	18
TW30013	Current	5447	19/02/21	CAL00928/02	53.64	1.0001	1.0028	1.0046	1.0042	1.0080	1.0042	1.0052

k_pol Co-60	6	6FFF	10	10FFF	15	18	$k_Q = a \cdot (TPR_{20,10})^2 + b \cdot (TPR_{20,10}) + c$			MR linac kb
	a	b	c							
1.0005	0.9996	0.9999	0.9992	1.0000	0.9999	0.9994	-0.4361	0.3622	0.9350	

### Digital Prototype:

Chamber Name: TW30012 - 5447  
Calibration Date: 19/02/2021  
Cal#: CAL00928/02

N<sub>D,w,Q\_o</sub> 53.65 mGy/nC

	k <sub>s</sub>
Co-60	1.0001
6	1.0029
6FFF	1.0047
10	1.0043
10FFF	1.0081
15	1.0043
18	1.0053

	k <sub>pol</sub>
Co-60	1.0005
6	0.9997
6FFF	0.9998
10	0.9993
10FFF	1.0001
15	0.9998
18	0.9995

$k_Q = a \cdot (\text{TPR}_{20,10})^2 + b \cdot (\text{TPR}_{20,10}) + c$	
a	-0.4361
b	0.3622
c	0.9350

	MR linac
kb	xxxxx

## 2. Reference Data

User Stories: 2.4

Reference data tables stored in the system imported from external sources.

Current System:

Table 14	k_Q for photon beams			
TPR <sub>20,10</sub>	2571	30013	FC65-G	CC13
0.50	1.005	1.002	1.005	1.001
0.53	1.004	1.002	1.004	1.001
0.56	1.002	1.000	1.002	1.001
0.59	1.000	0.999	1.000	1.000
0.62	0.998	0.997	0.998	0.999
0.65	0.995	0.994	0.997	0.997
0.68	0.993	0.990	0.995	0.995
0.70	0.991	0.988	0.992	0.993
0.72	0.989	0.984	0.989	0.989
0.74	0.986	0.980	0.985	0.985
0.76	0.982	0.975	0.981	0.980
0.78	0.975	0.968	0.973	0.972
0.80	0.969	0.960	0.966	0.964
0.82	0.961	0.952	0.958	0.955
0.84	0.949	0.940	0.947	0.943

Prototype:

**k\_Q for photon beams**

TPR_20,10	2571	30013	FC65-G	CC13
0.50	1.005	1.002	1.005	1.001
0.53	1.004	1.002	1.004	1.001
0.56	1.002	1.000	1.002	1.001
0.59	1.000	0.999	1.000	1.000
0.62	0.998	0.997	0.998	0.999
0.65	0.995	0.994	0.997	0.997
0.68	0.993	0.990	0.995	0.995
0.70	0.991	0.988	0.992	0.993
0.72	0.989	0.984	0.989	0.989
0.74	0.986	0.980	0.985	0.985
0.76	0.982	0.975	0.981	0.980
0.78	0.975	0.968	0.973	0.972
0.80	0.969	0.960	0.966	0.964
0.82	0.961	0.952	0.958	0.955
0.84	0.949	0.940	0.947	0.943

**3. Login Information:**

User stories: 3.1, 3.2

Login information and user account lists.

Accounts used in digital prototype to demonstrate account management functionality:

Name	E-mail address	Privileges
John Doe	john.d@arpansa.gov.au	Admin
Barry Smith	barry.s@arpansa.gov.au	Admin
Jack Goodman	jack.g@arpansa.gov.au	Standard