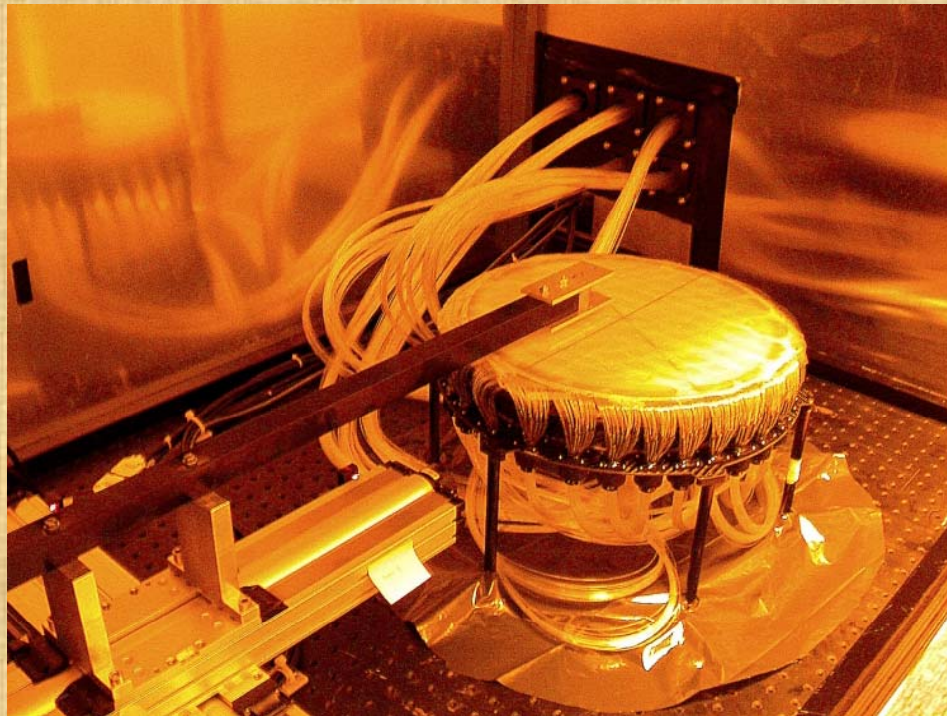


Station QA result for Tracker1&2

Hideyuki Sakamoto
10th February 2008

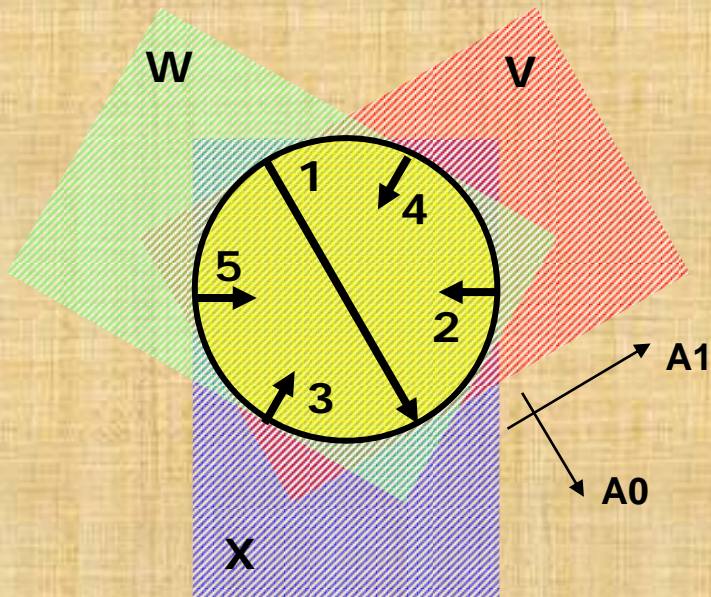


10th February 2008

MICE Collaboration Meeting 20th, H. Sakamoto

Station setup

Scanning pattern



Scanning parameters

Scan	Steps	A0 (μm)	A1 (μm)	Length (μm)	Angle (deg.)
1	12	-40000	-35000	300000	90
2	4	16250	62428	75000	-30
3	4	16250	-132428	75000	30
4	4	-96250	62428	75000	30
5	4	-96250	-132428	75000	-30

Triggers/step: 50k

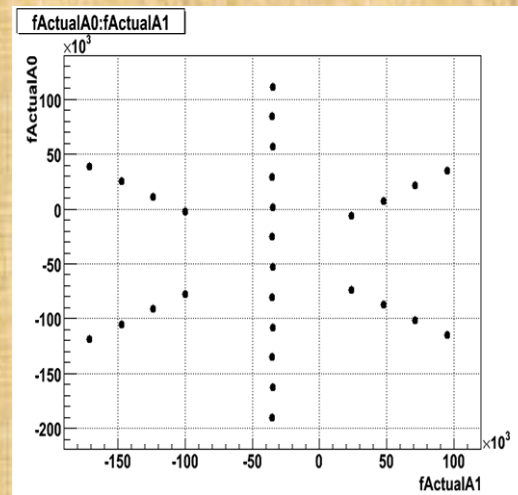
Total steps: 28 steps

Step size: 27 mm

DAQ rate: 38 Hz

Duration: 11 hours (without any interruption)

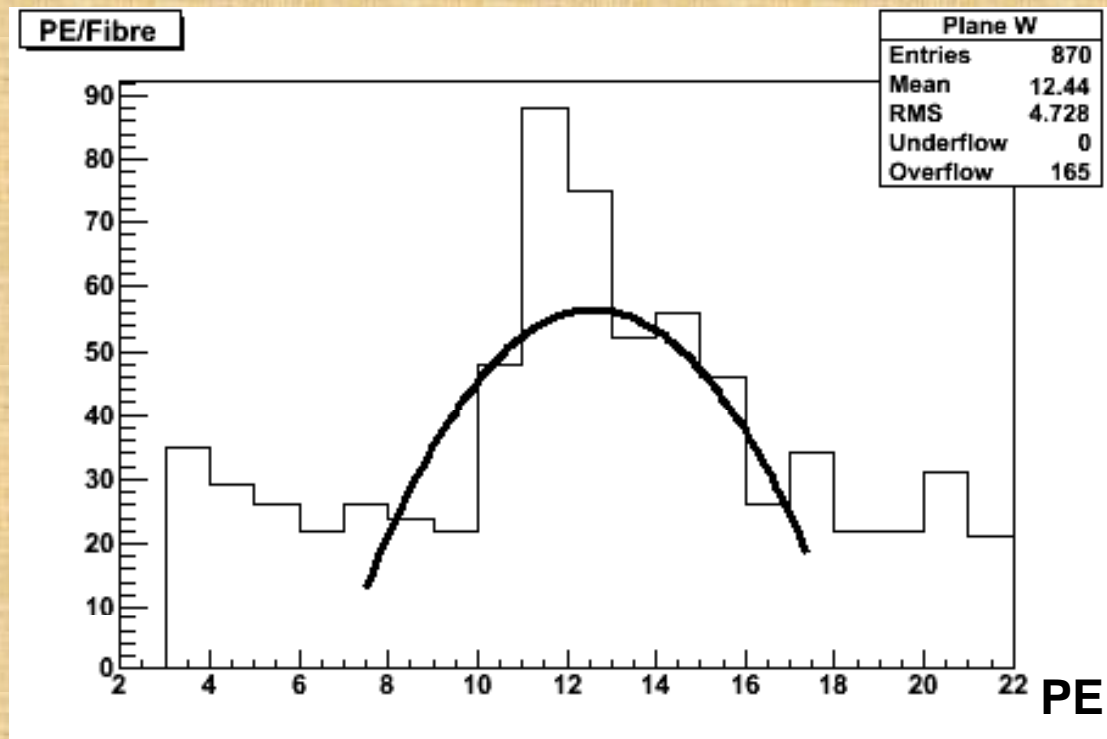
A0



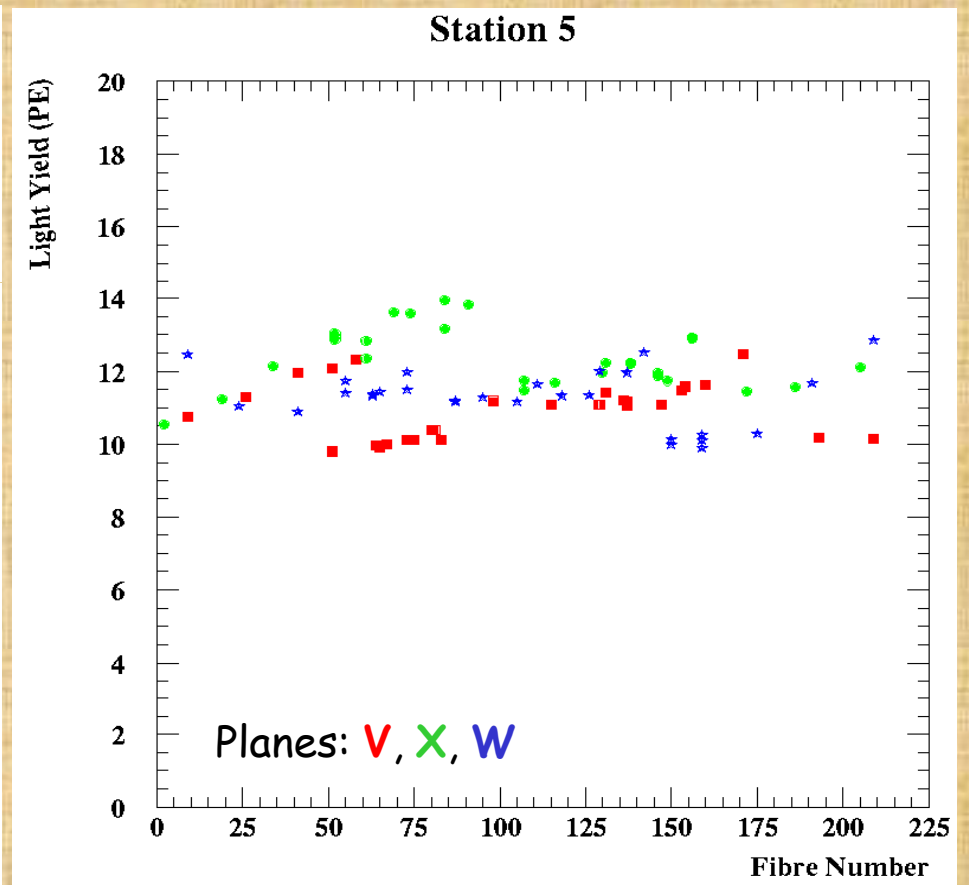
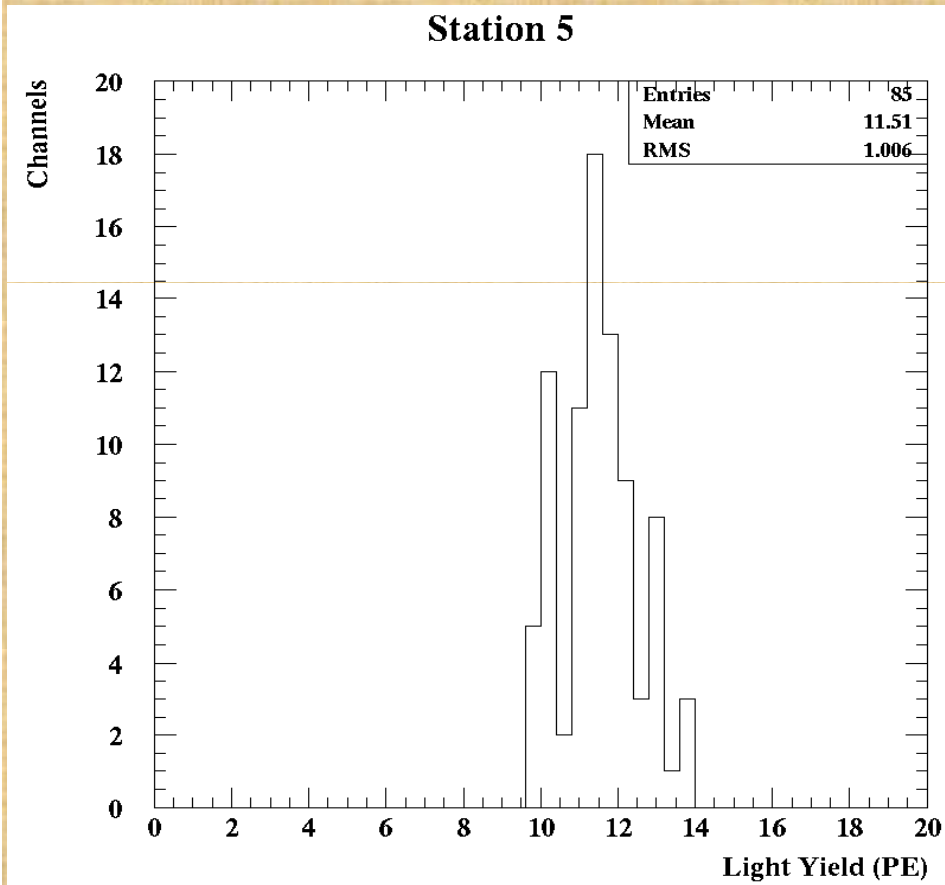
A1

Analysis

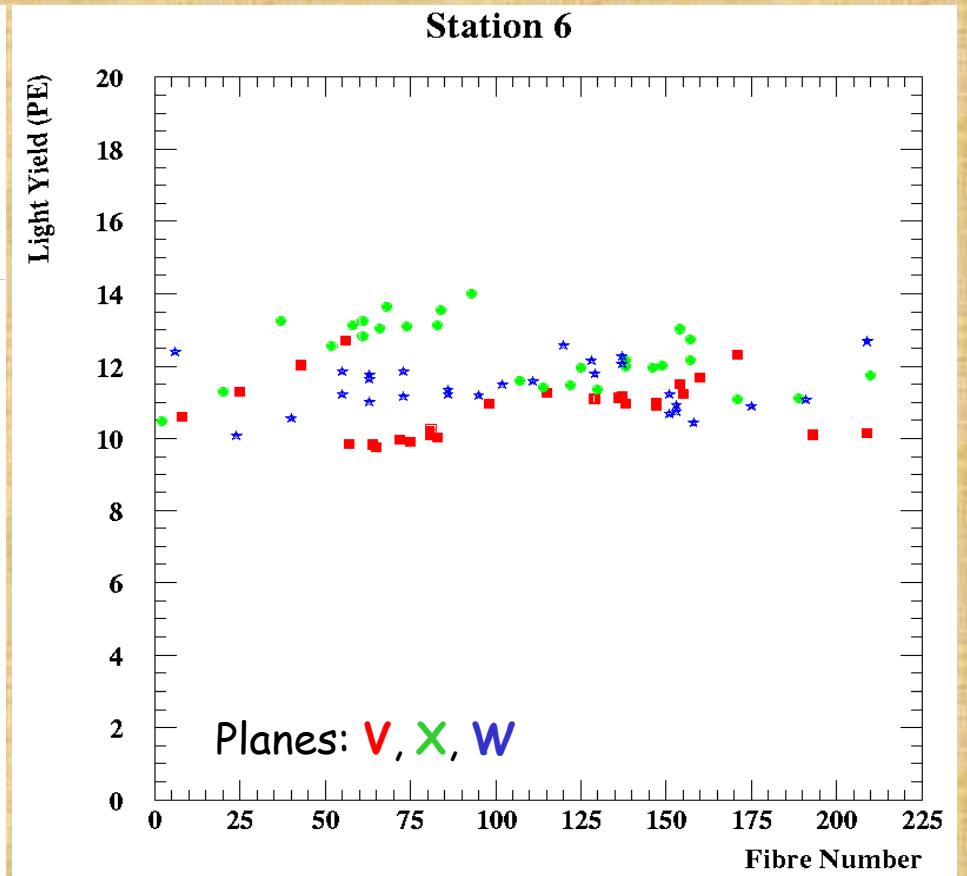
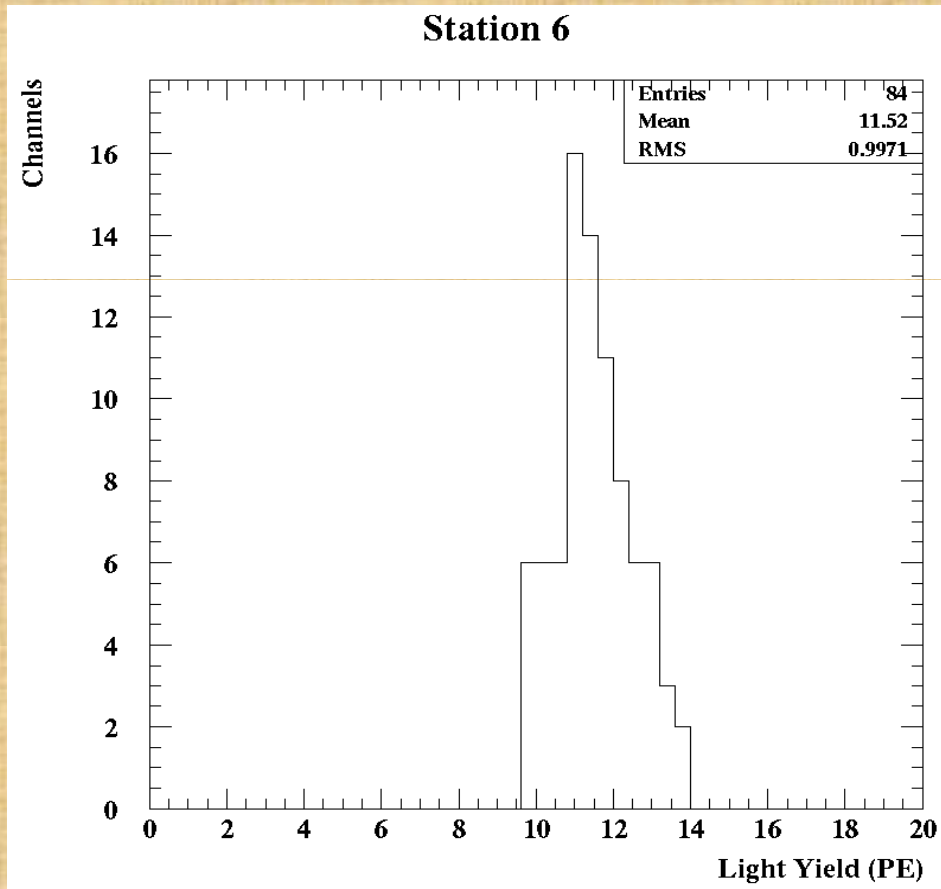
- Using G4MICE StationQA application
 - Fit PE at the fiber under Co57 by following function.
 $p0 * \exp(-0.5 * (*x - p1) * (*x - p1) / p2 / p2) + p3 + (*x) * p4 + (*x) * (*x) * p5;$
 - There are 28 samples per each Station



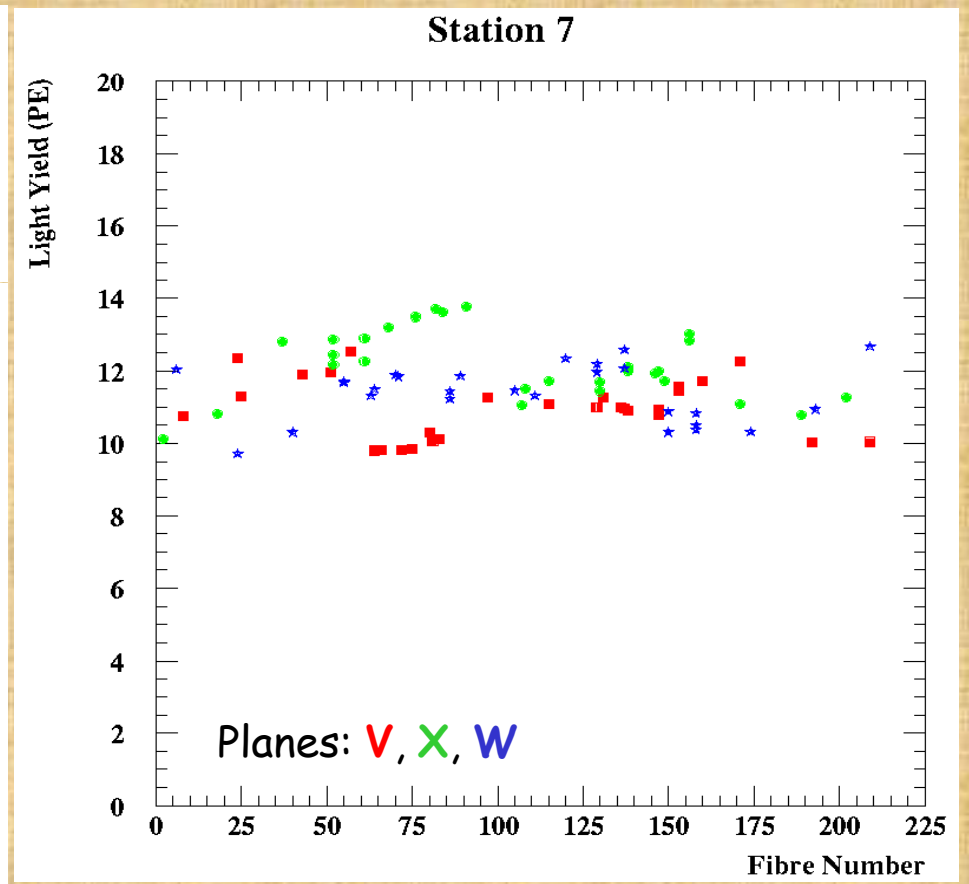
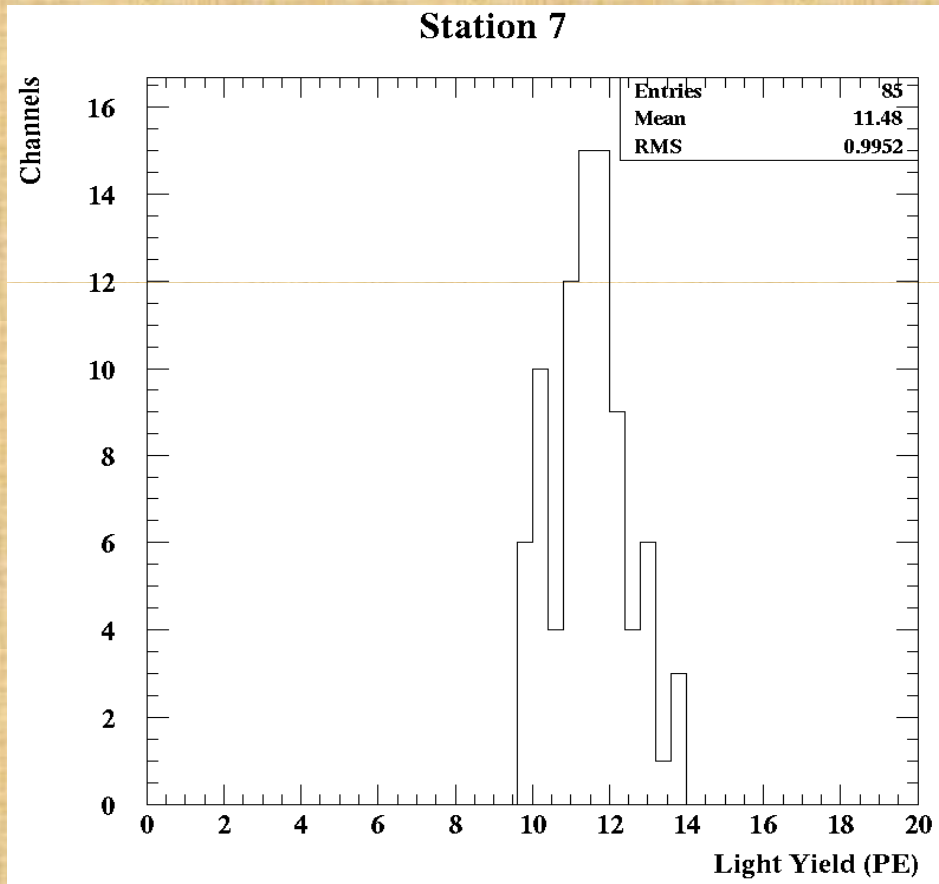
Station 5



Station 6

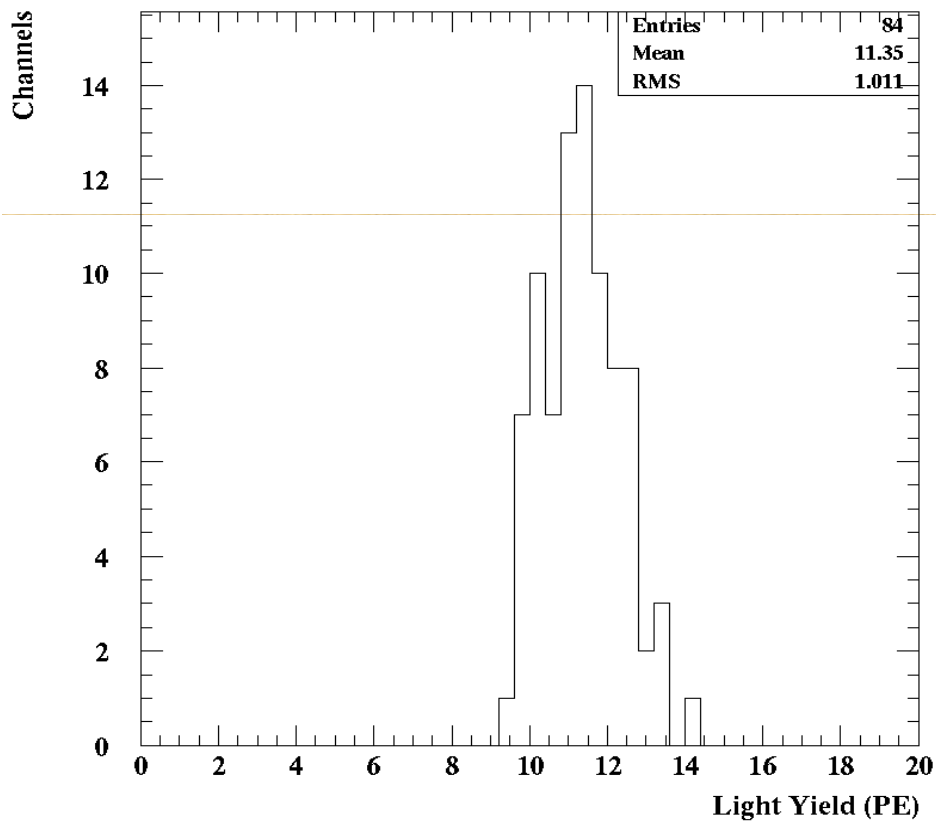


Station 7

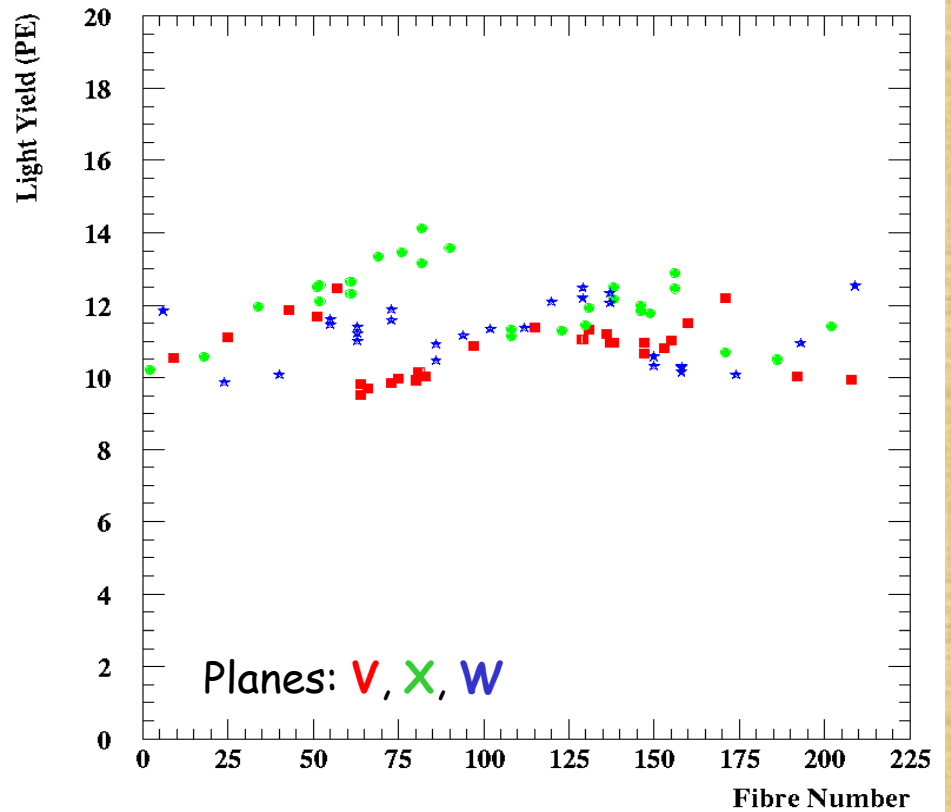


Station 9

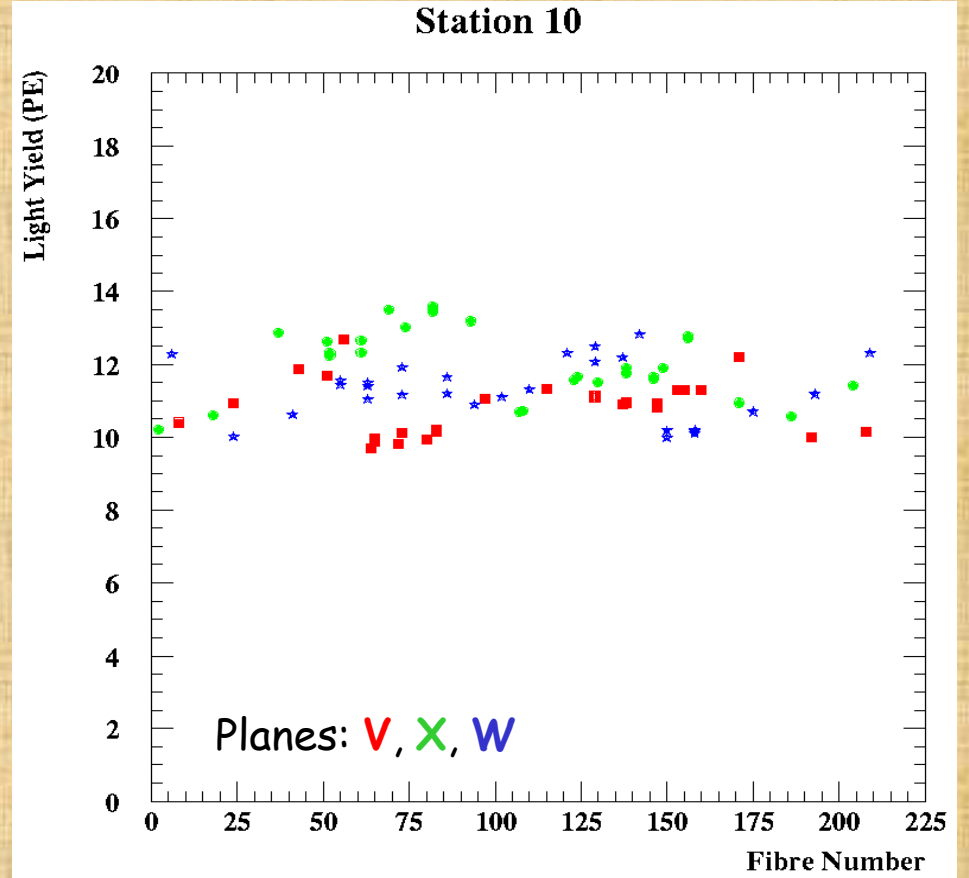
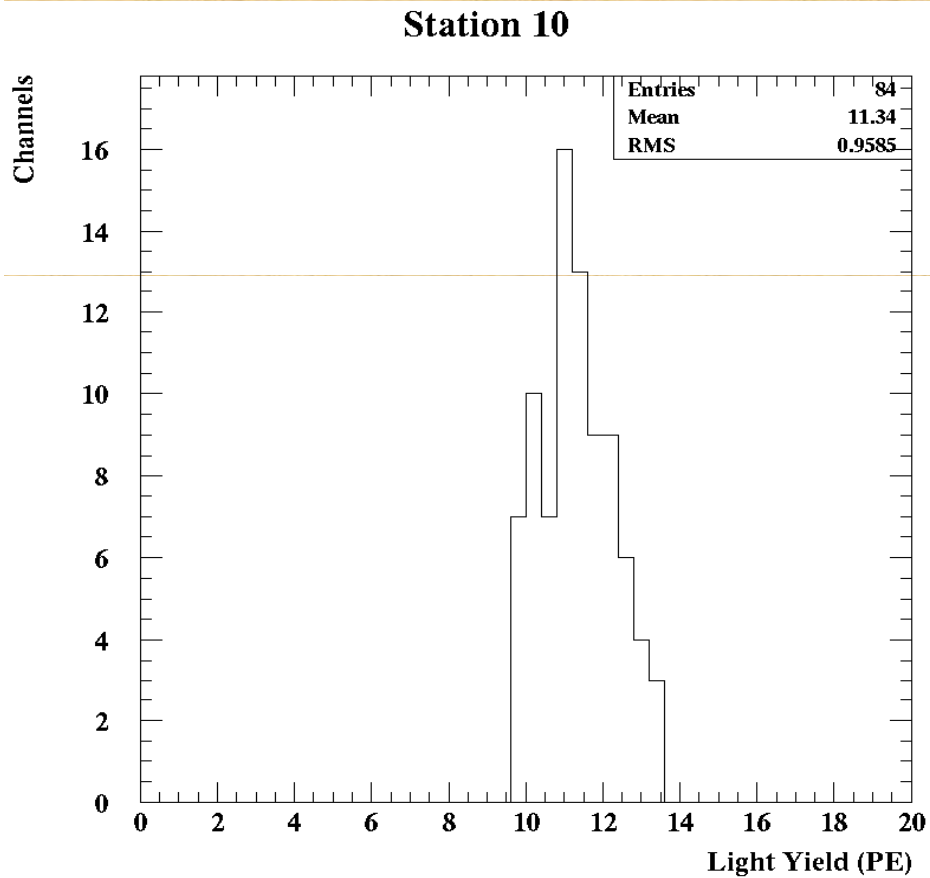
Station 9



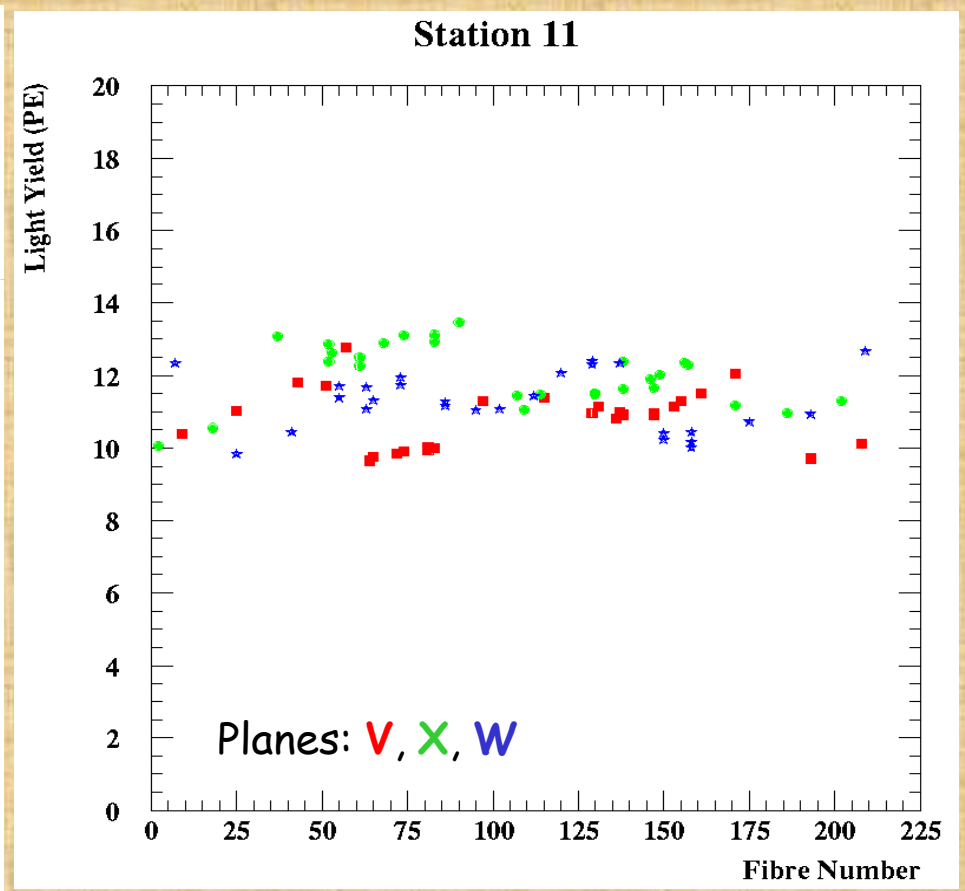
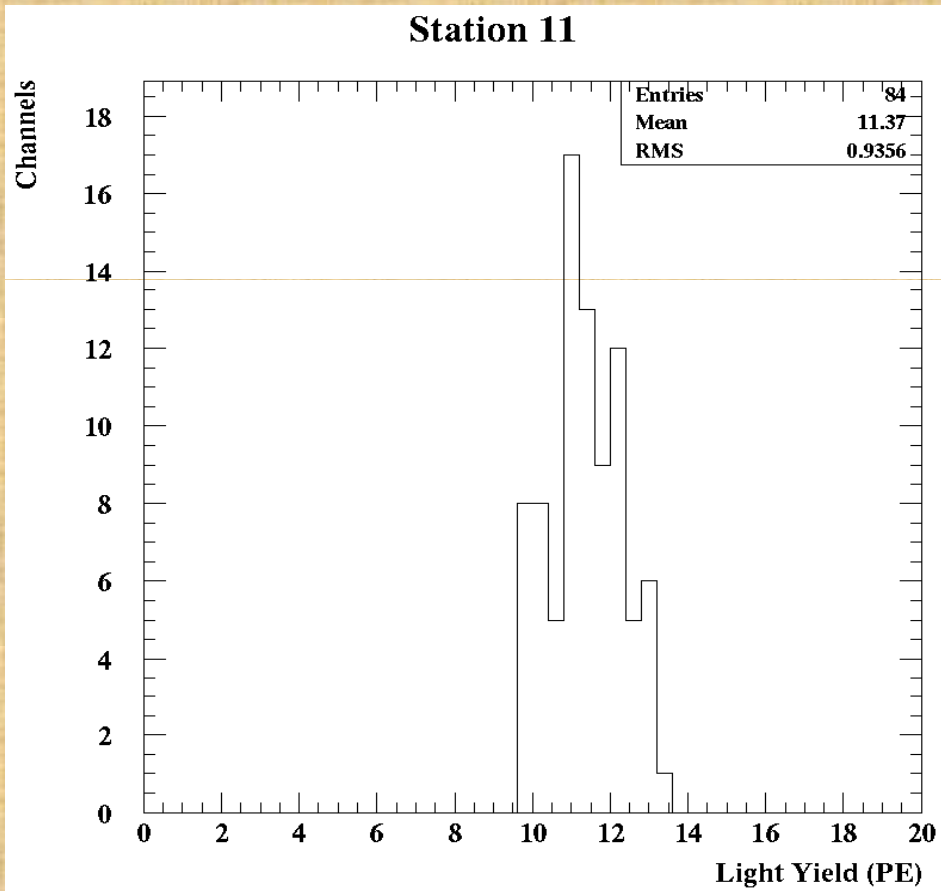
Station 9



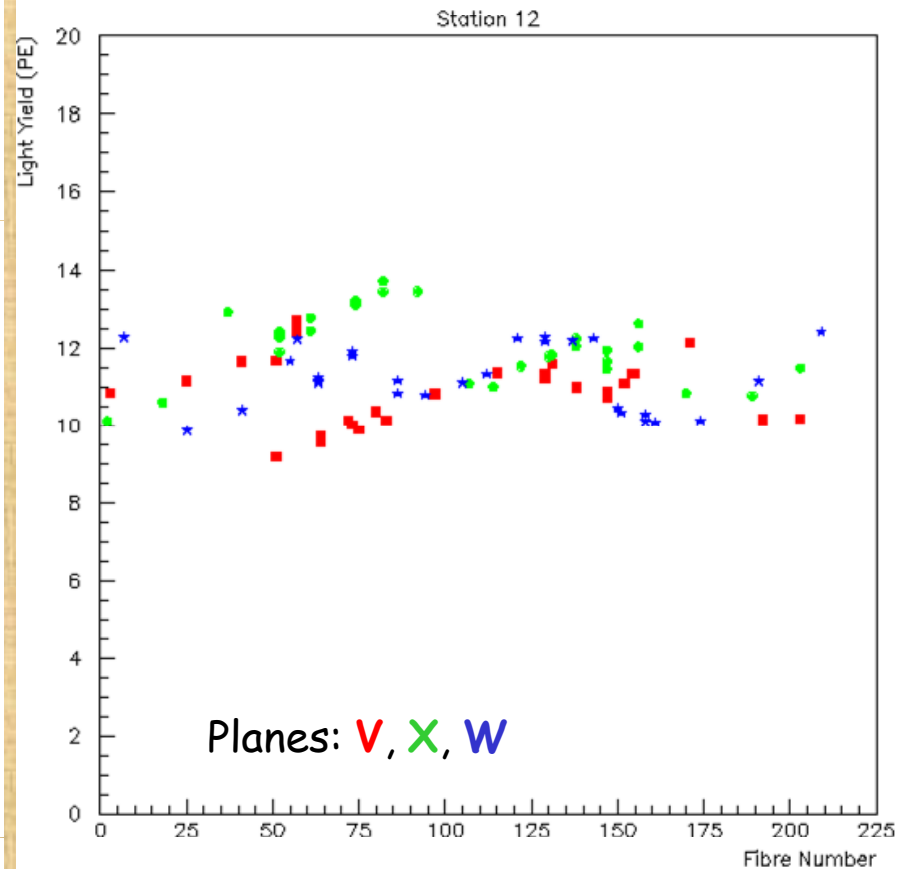
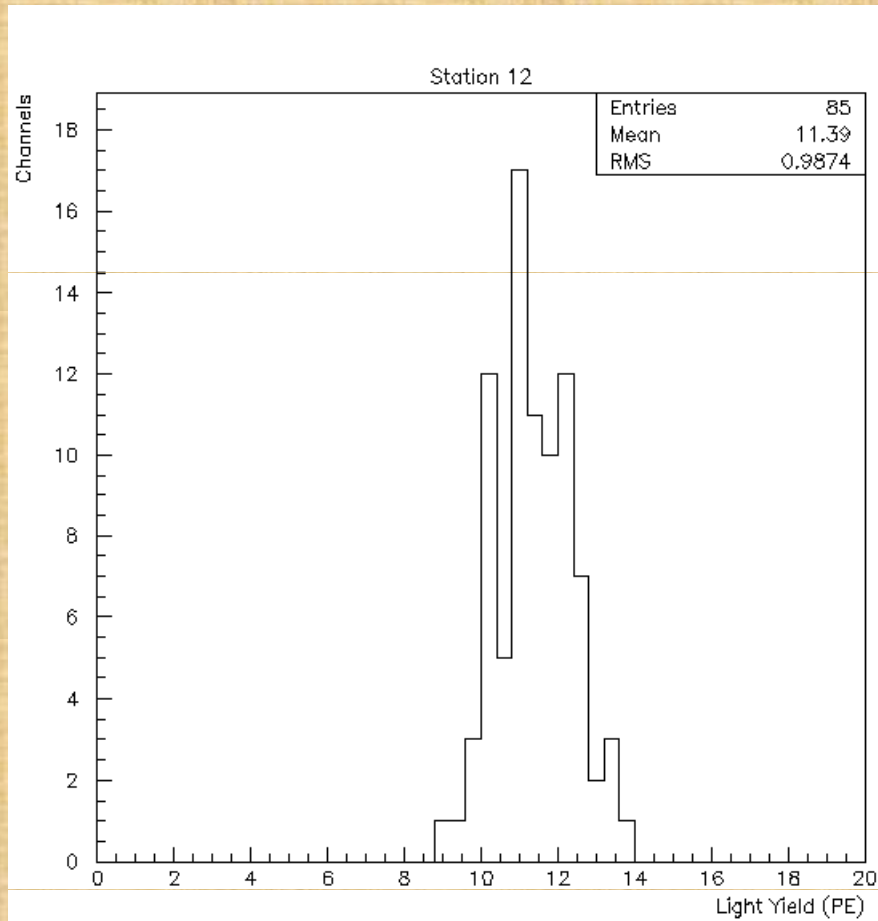
Station 10



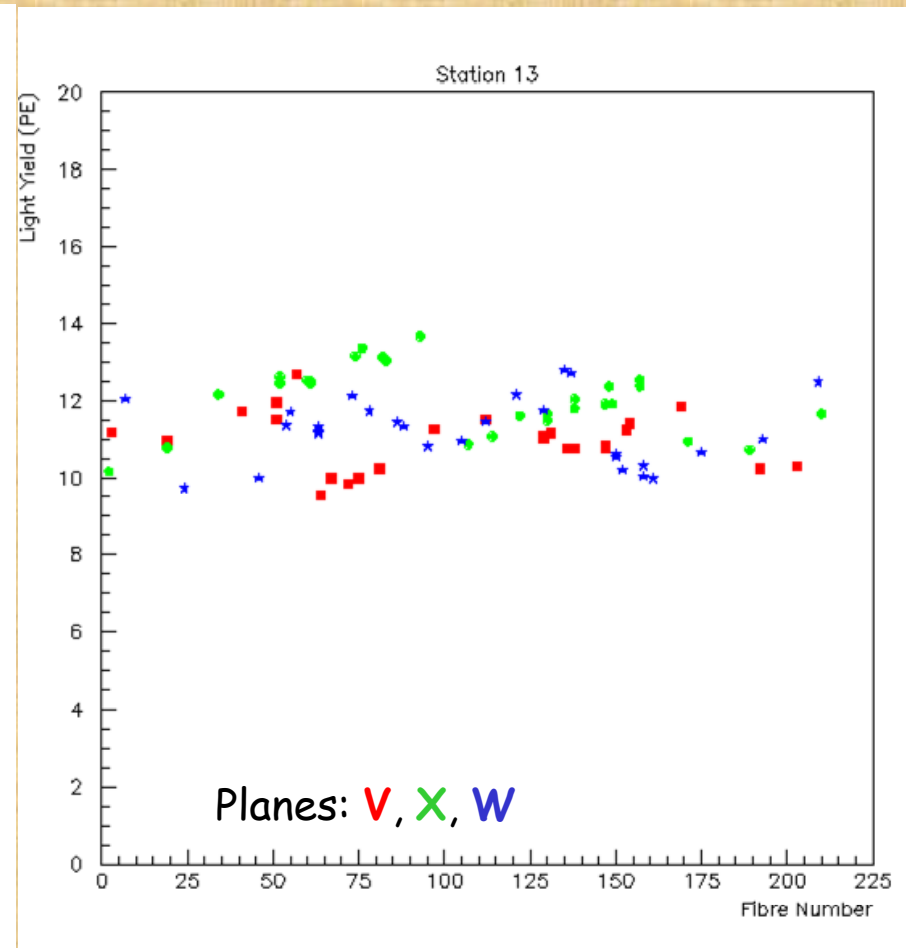
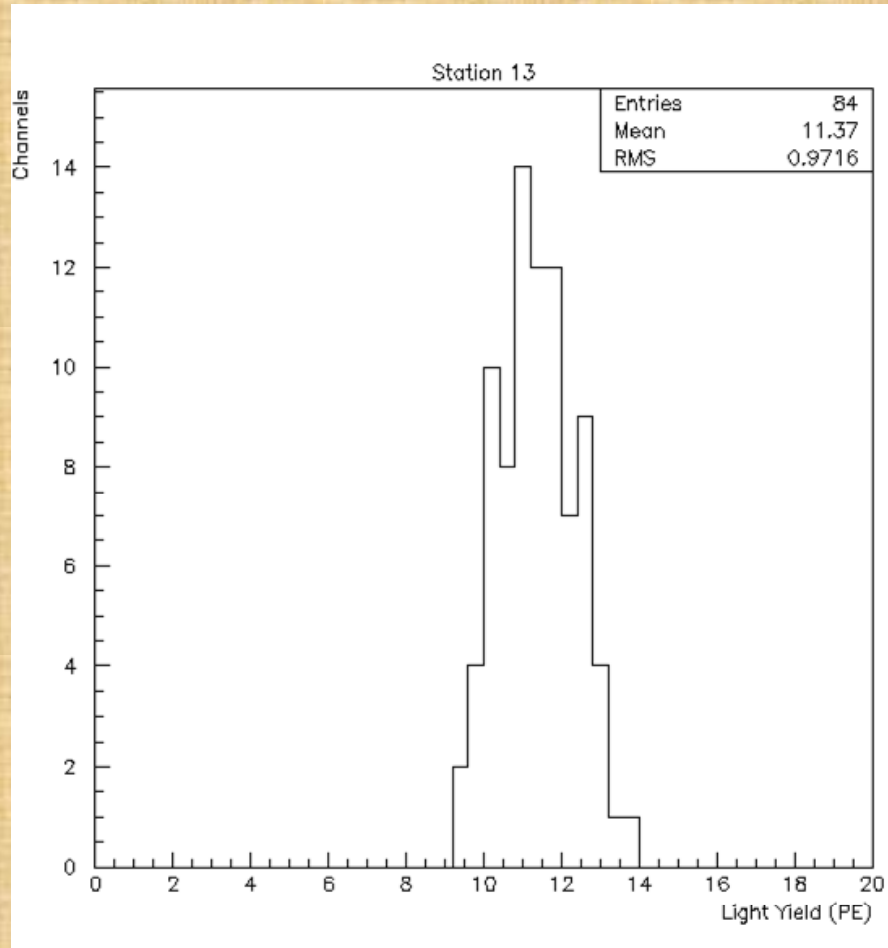
Station 11



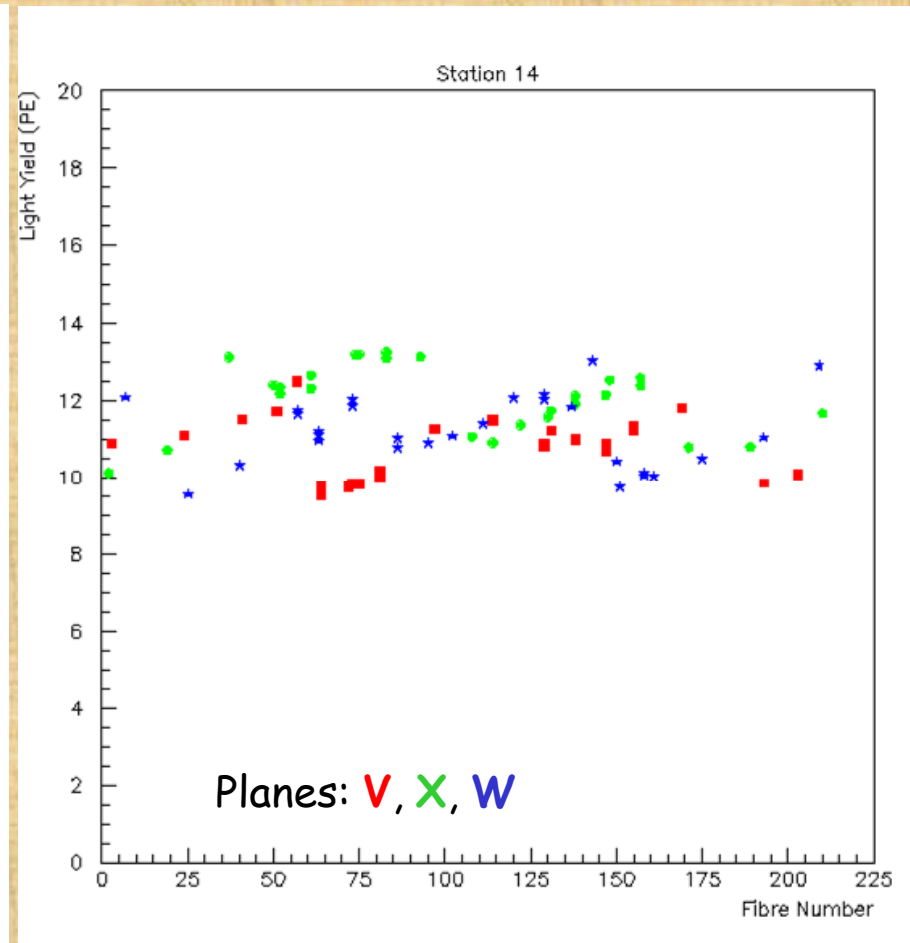
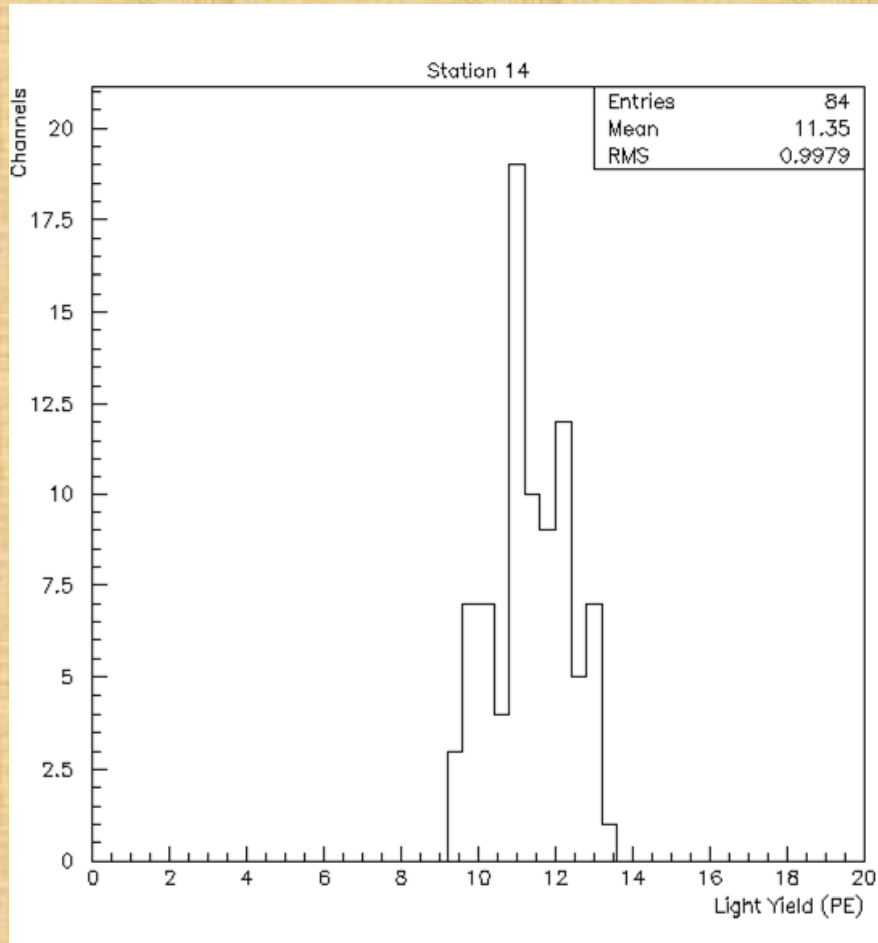
Station12



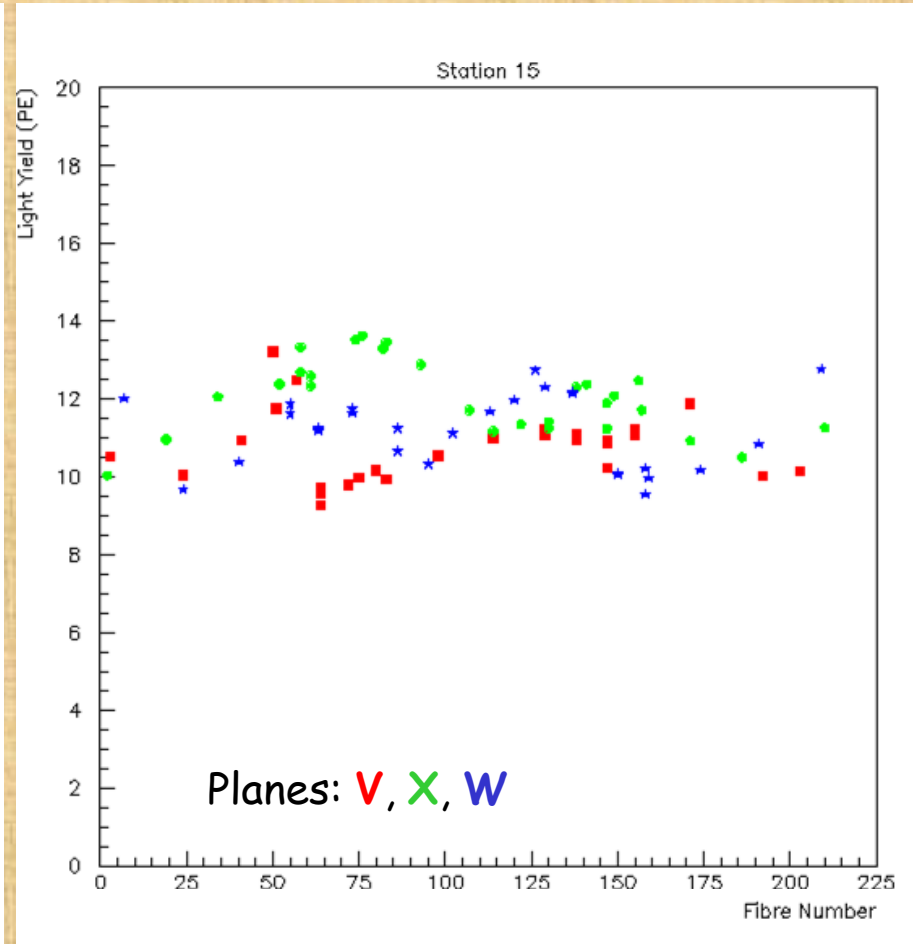
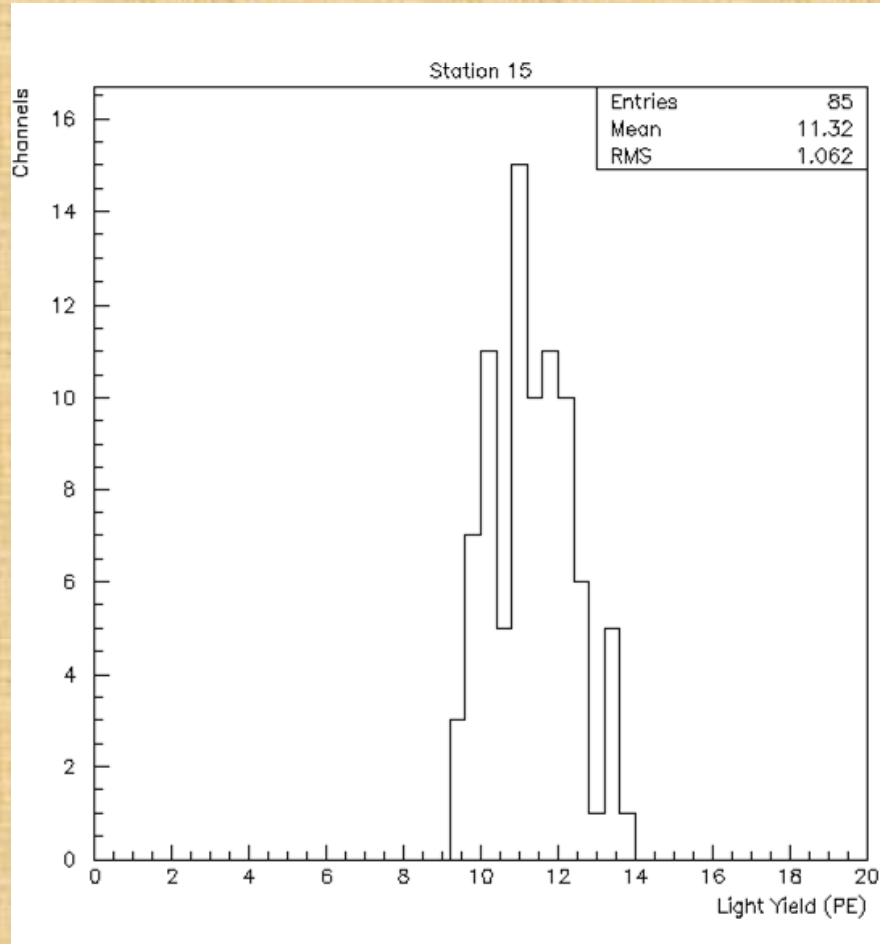
Station13



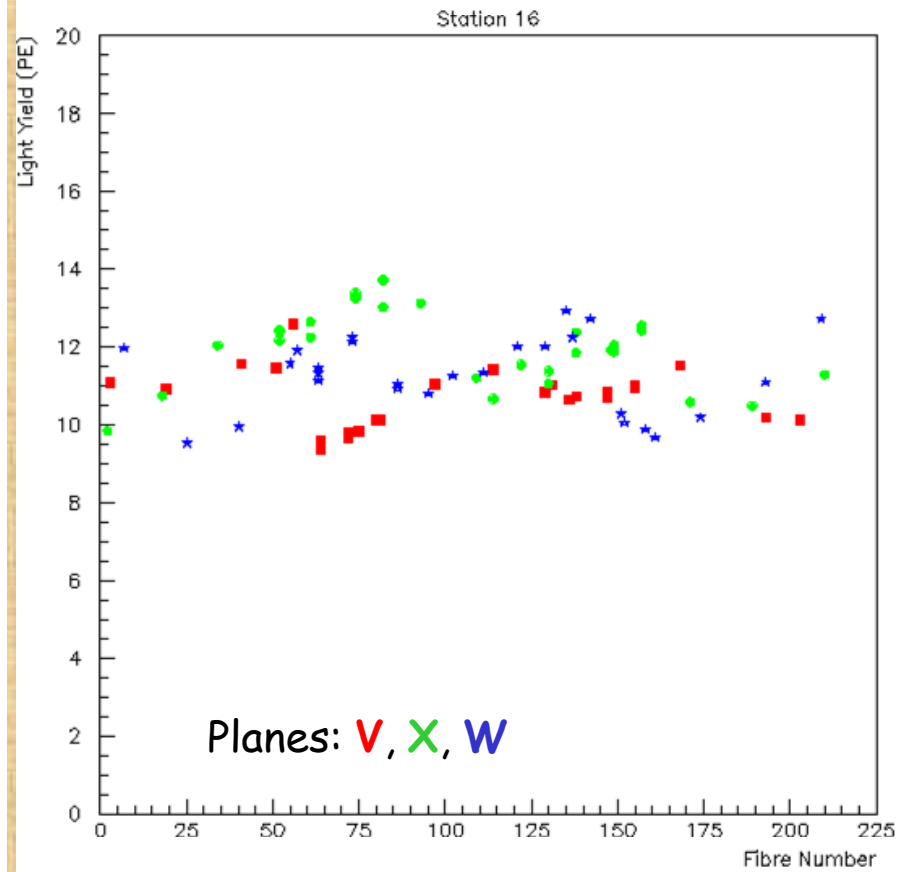
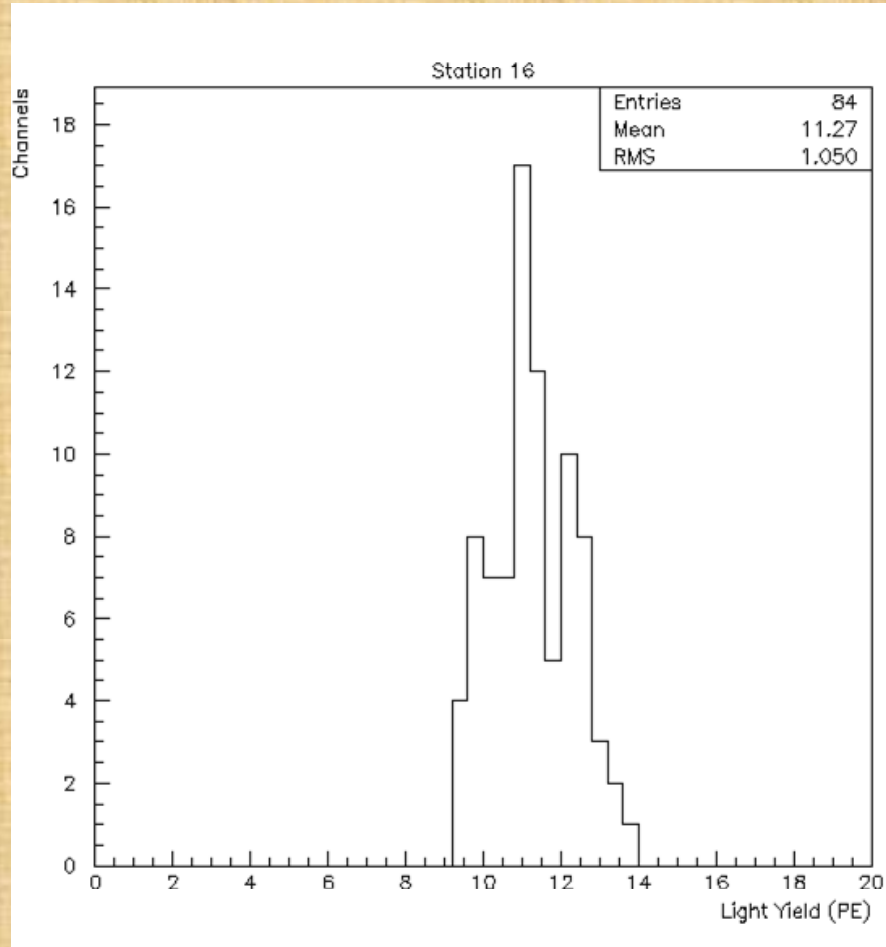
Station14



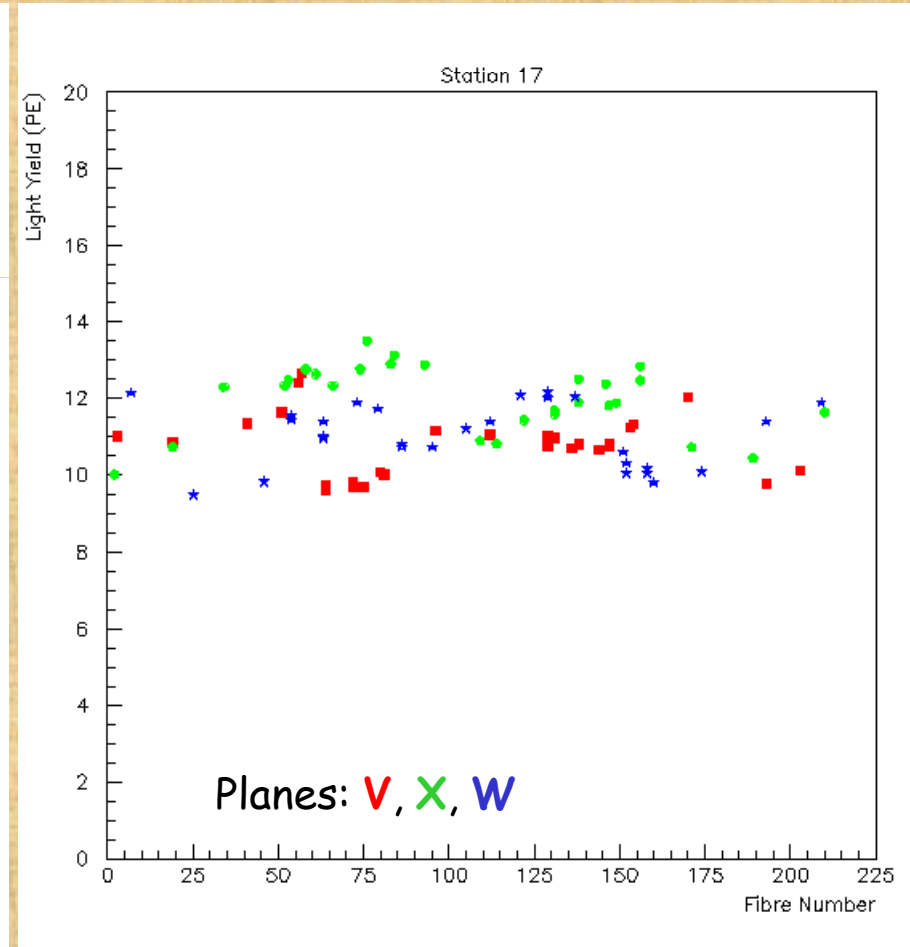
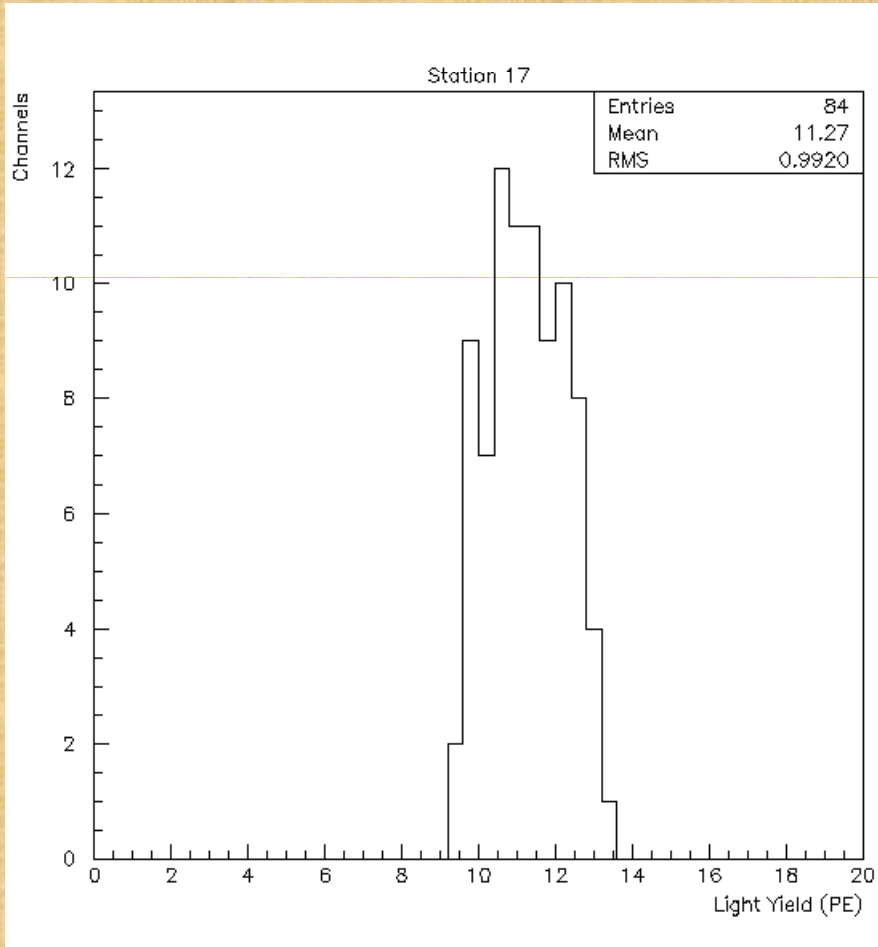
Station15



Station16



Station17



Planes Summary Table (1)

Station	Plane	Mean LY	RMS
5	V	10.95	0.76
5	X	12.36	0.83
5	W	11.29	0.76
6	V	10.81	0.79
6	X	12.32	0.89
6	W	11.43	0.65
7	V	10.91	0.82
7	X	12.15	0.95
7	W	11.38	0.74
9	V	10.77	0.78
9	X	12.06	0.96
9	W	11.21	0.79
10	V	10.81	0.75
10	X	11.99	0.95
10	W	11.28	0.81
11	V	10.78	0.81
11	X	12.01	0.83
11	W	11.31	0.80

Planes Summary Table (2)

Station	Plane	Mean LY	RMS
12	V	10.89	0.84
12	X	12.04	0.91
12	W	11.27	0.81
13	V	10.88	0.75
13	X	12.04	0.86
13	W	11.23	0.84
14	V	10.73	0.77
14	X	12.06	0.85
14	W	11.22	0.89
15	V	10.70	0.88
15	X	12.03	0.94
15	W	11.18	0.91
16	V	10.65	0.74
16	X	11.94	0.94
16	W	11.24	0.98
17	V	10.77	0.80
17	X	11.98	0.88
17	W	11.03	0.81

Stations Summary Table

Station	Mean LY	RMS
5	11.52	0.98
6	11.52	1.00
7	11.48	0.99
9	11.35	1.00
10	11.36	0.97
11	11.37	0.96
12	11.39	0.99
13	11.37	0.97
14	11.35	1.00
15	11.32	1.62
16	11.27	1.05
17	11.27	0.99