LED Monitoring Update
Calorimetry meeting Oct 13 2021

Varun Neelamana

Normal plots

Y Axis
0.98
To
1.02

Run Number

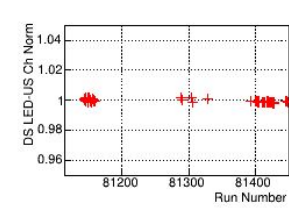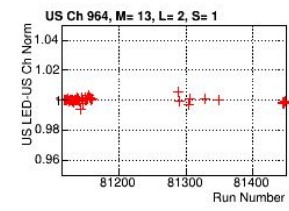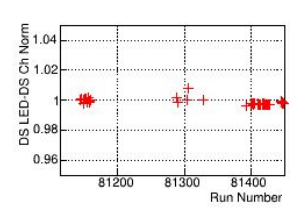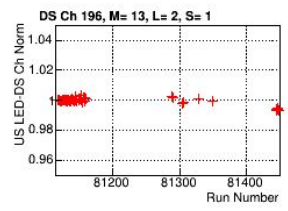US LED   DS LED   US LED   DS LED
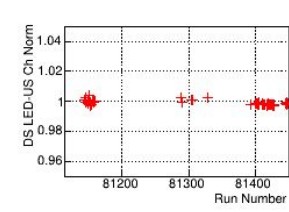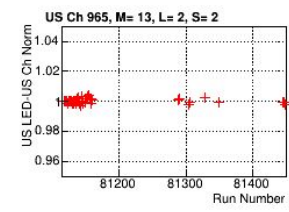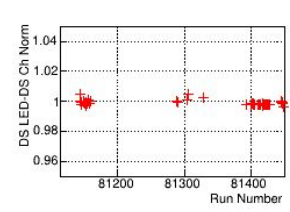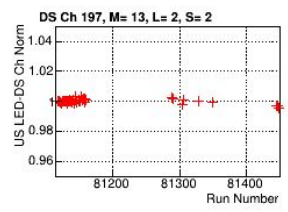
Downstream SiPMs   Upstream SiPMs

131 Runs

- **81113-81451**
- **Either DN LED or UP LED being pulsed (for few runs both triggers are found)**
- **Test runs-(81167-81260),(81269-81287)**
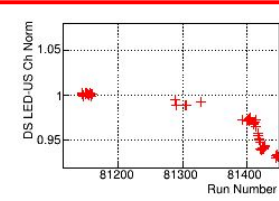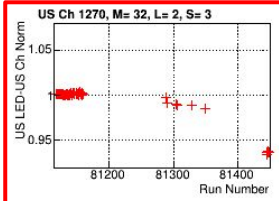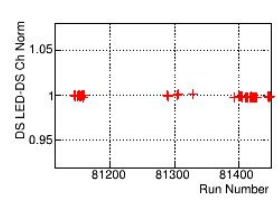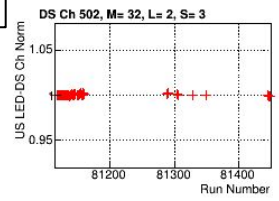- **Skimmed files not available from 81330-81402**

2

SiPM issues

Y Axis
0.92
To
1.08

Y Axis
0.95
To
1.05

Run Number

US LED

DS LED

US LED

DS LED

Ch=1270 (US)
M=32,L=2,S=3
6% deviation
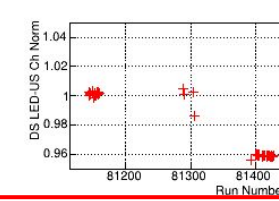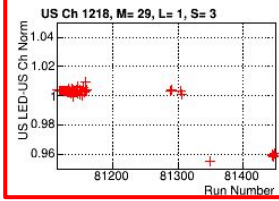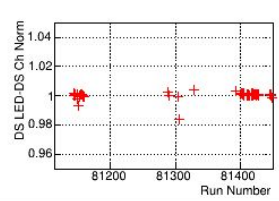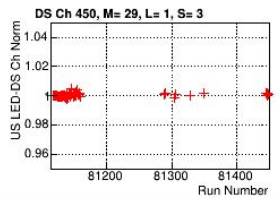
Ch=1218 (US)
M=29,L=1,S=3
4% deviation
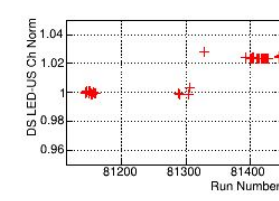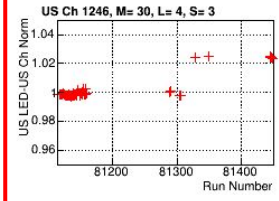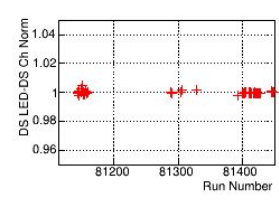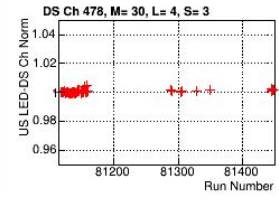
Ch=1246 (US)
M=30,L=4,S=3
3% deviation

Ch=461 (DS)
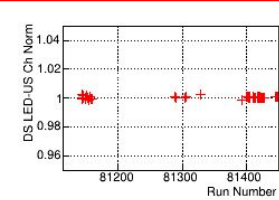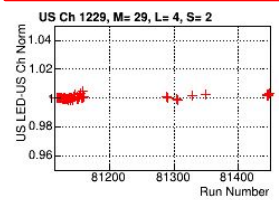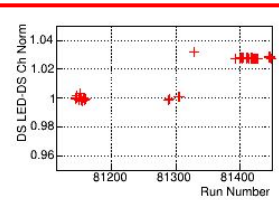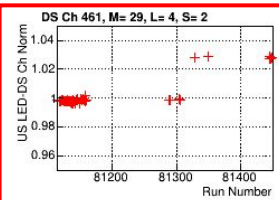M=29,L=4,S=2
3% deviation

Downstream SiPMs

Upstream SiPMs

3

LED issues

US LED   **DS LED**   **US LED**   **DS LED**
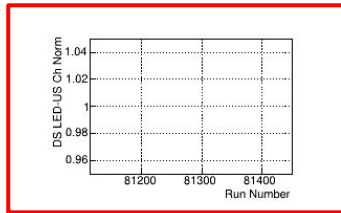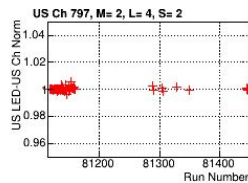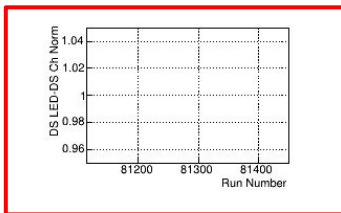
Y Axis
0.95
To
1.02

DS Ch 29, M= 2, L= 4, S= 2 | DS Ch ... | US Ch 797, M= 2, L= 4, S= 2 | ...
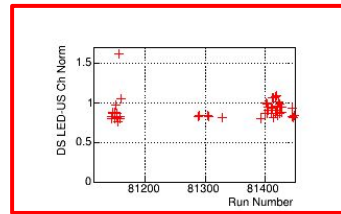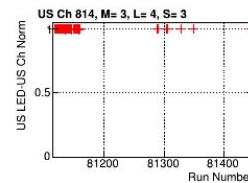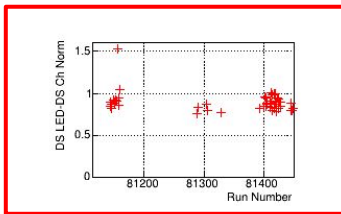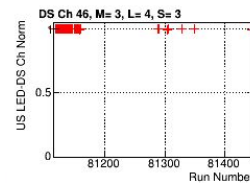
39 DN LEDs (out of 768)
No response

Y Axis
Unzoomed

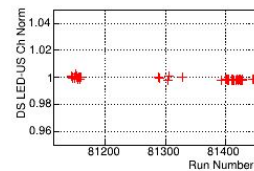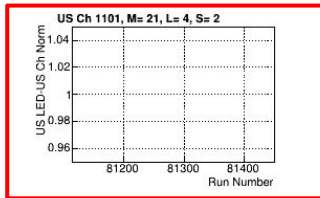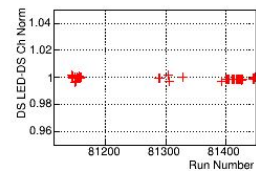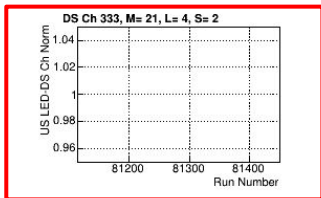DS Ch 46, M= 3, L= 4, S= 3 | | US Ch 814, M= 3, L= 4, S= 3 |
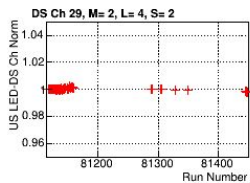
96 DN LEDs fluctuations

Y Axis
0.95
To
1.02

DS Ch 333, M= 21, L= 4, S= 2 | | US Ch 1101, M= 21, L= 4, S= 2 |
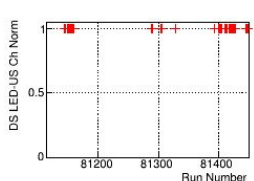
3 UP LEDs (out of 768)
No response

Y Axis
Unzoomed

DS Ch 413, M= 26, L= 4, S= 2 | | US Ch 1181, M= 26, L= 4, S= 2 |
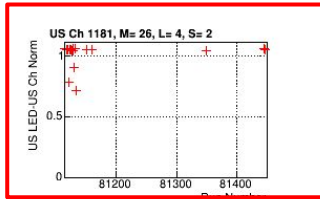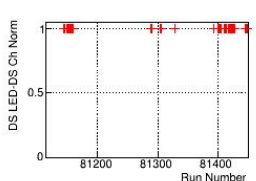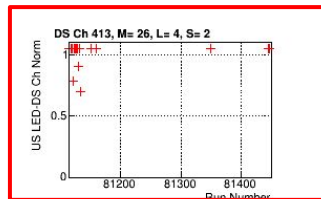
16 UP LEDs fluctuations

Run Number

Similar patterns for 1 & 3 plot (same LED)

Downstream SiPMs   **Upstream SiPMs**

4