

**BLM SYSTEM:
SIGNAL DROP AT IP3 ON 23/05/2017**

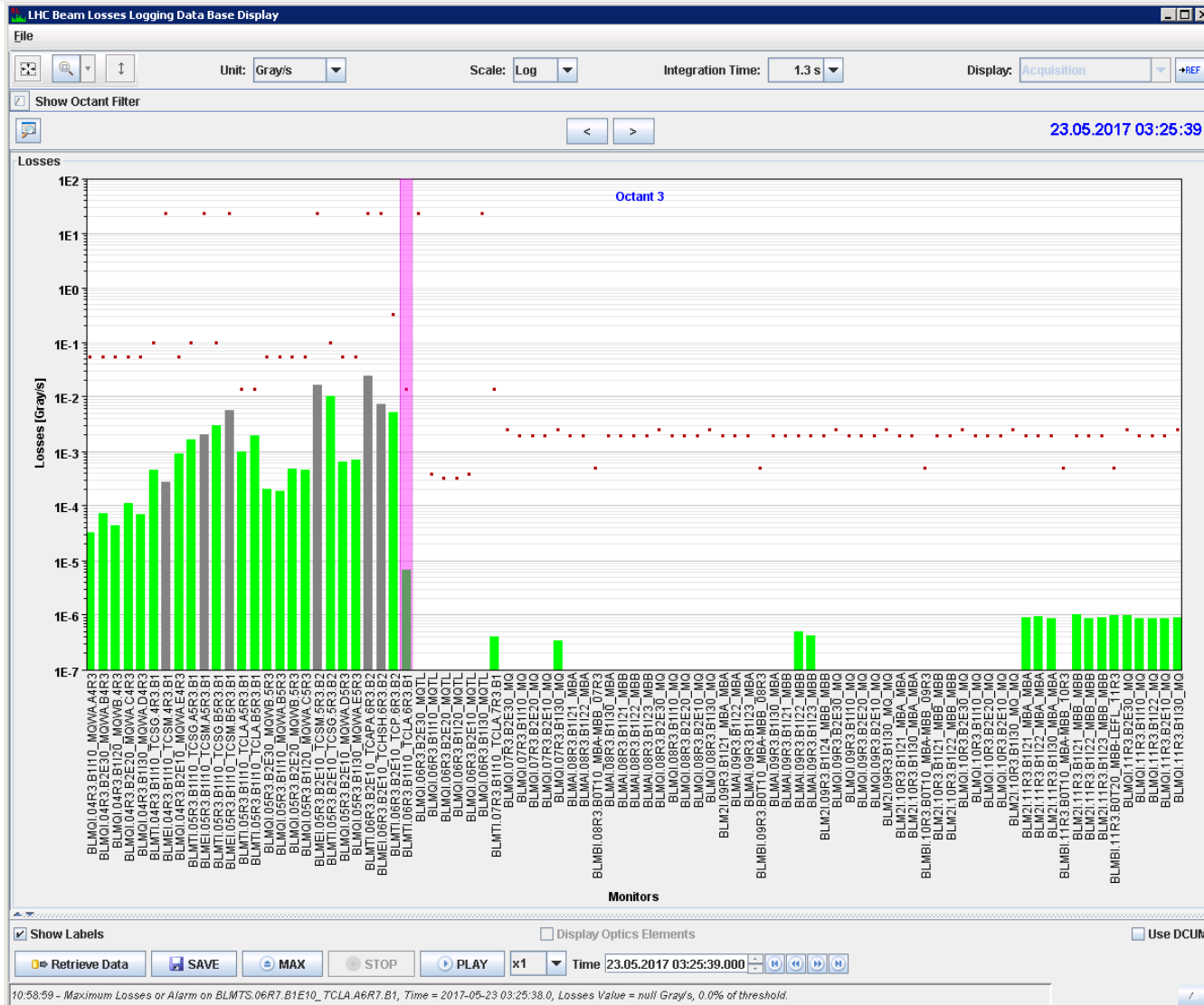
Christos Zamantzas on behalf of the BLM team.

09/06/2017

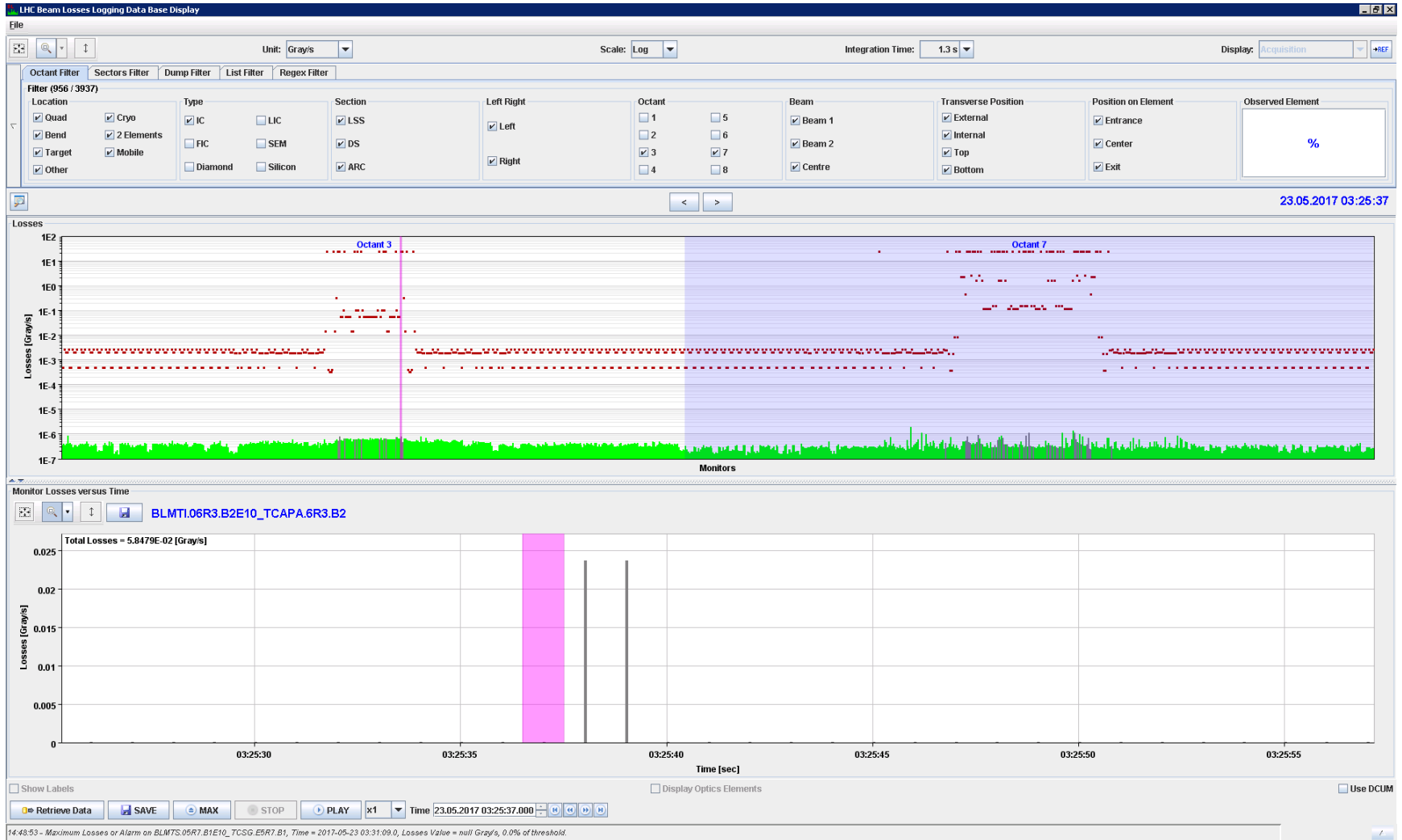
Issue: background

- During the Loss Maps Validation several BLM signals drop to zero at DS of R3
- The issue has been reported twice in Run 2:
 - [BIBML-990](#) on 2015/05/05
 - [BIBML-1344](#) on 2017/05/23
- Issue known since Run 1:
 - Several investigations and actions
 - Cabling is not the same as in all other locations
 - Cause never really understood

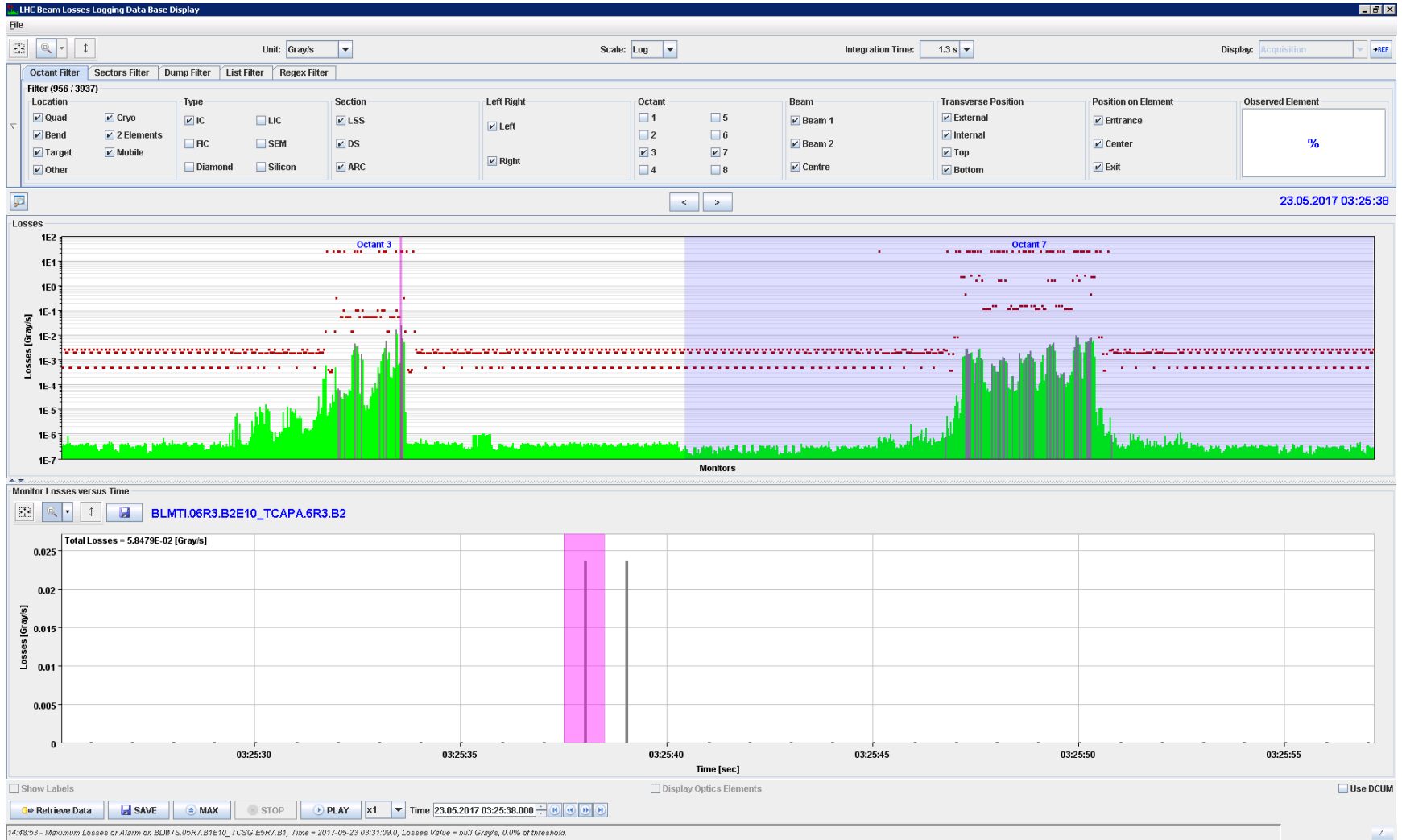
Issue: channels 6R3 – 10R3



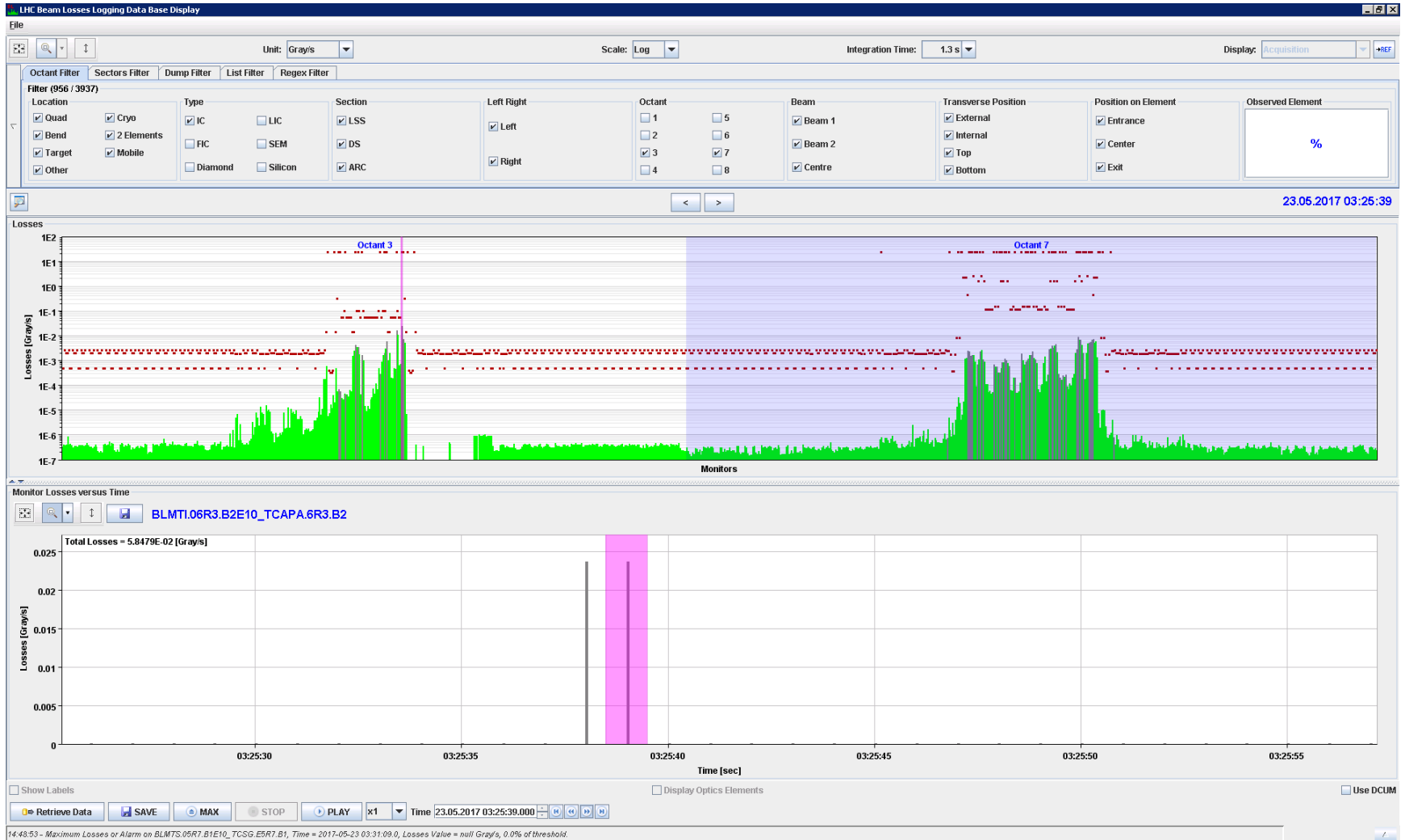
2017/05/23 03:25:37



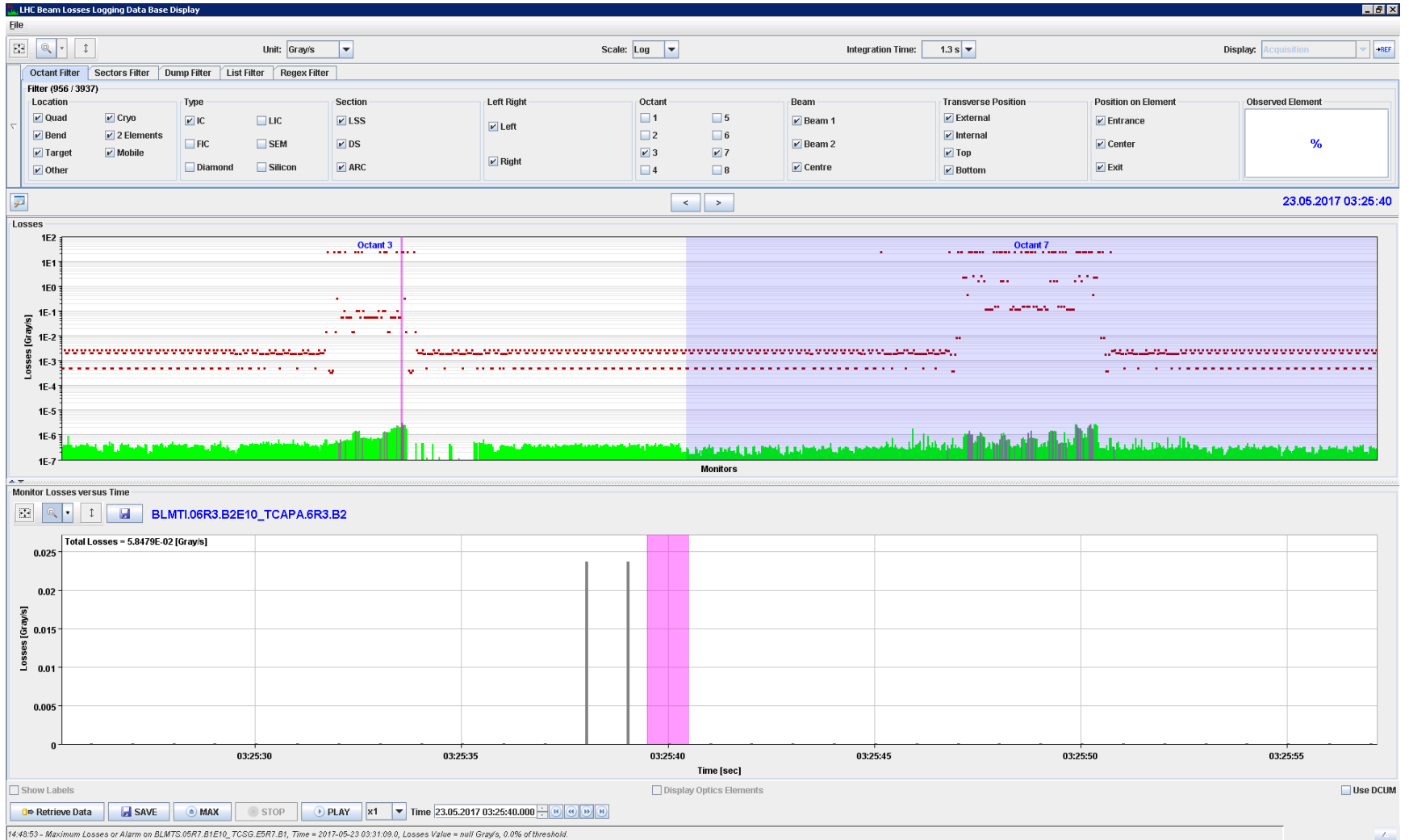
2017/05/23 03:25:38



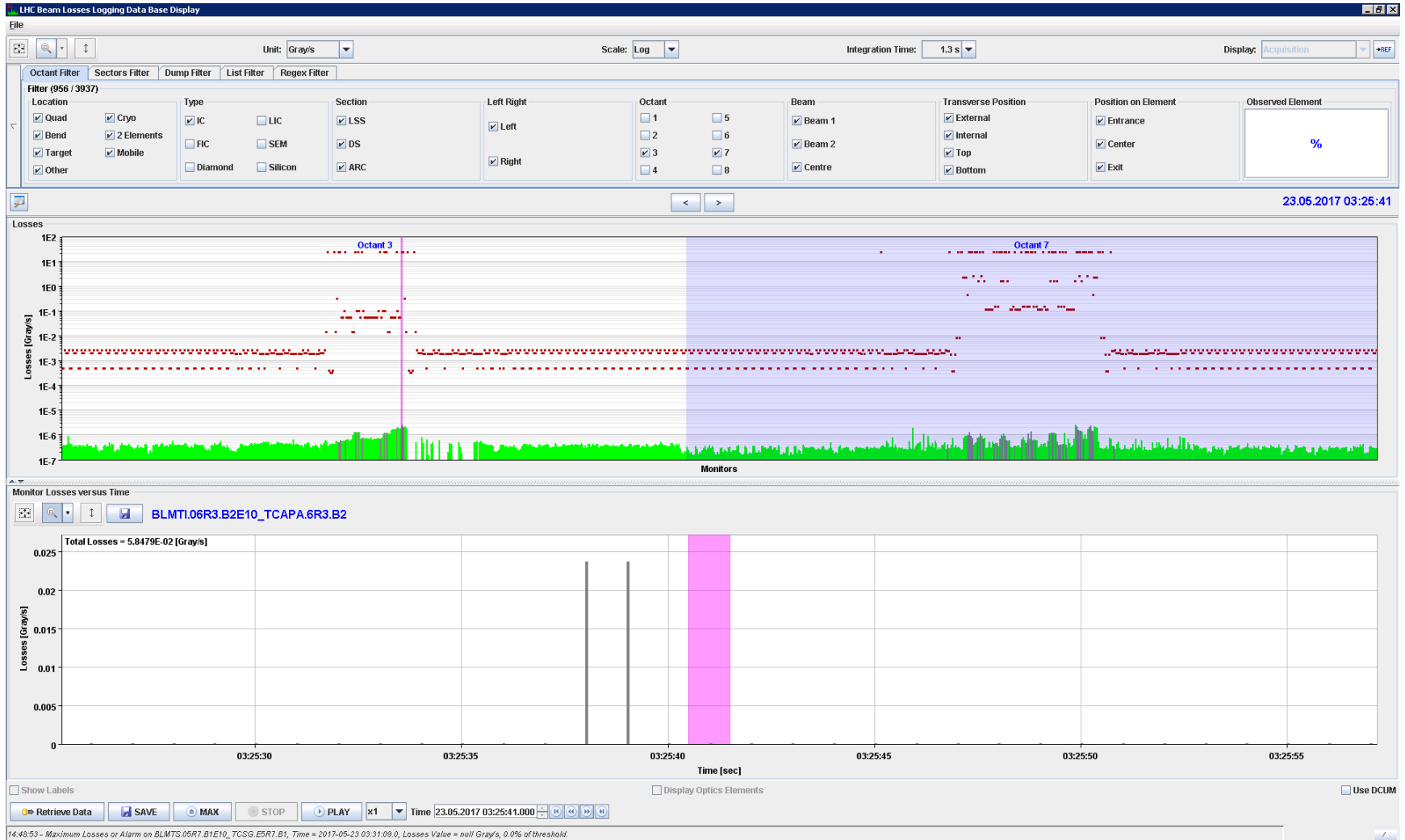
2017/05/23 03:25:39



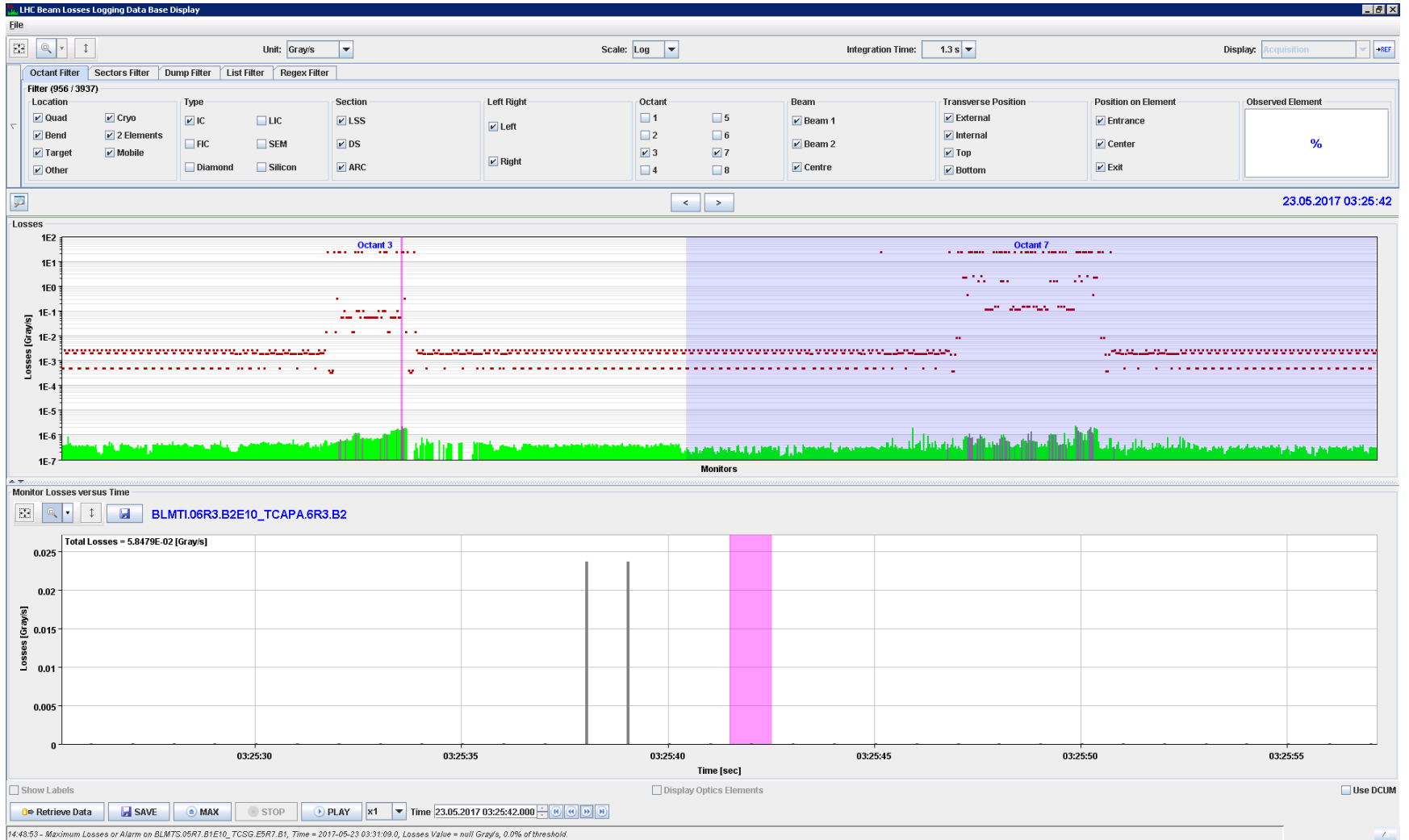
2017/05/23 03:25:40



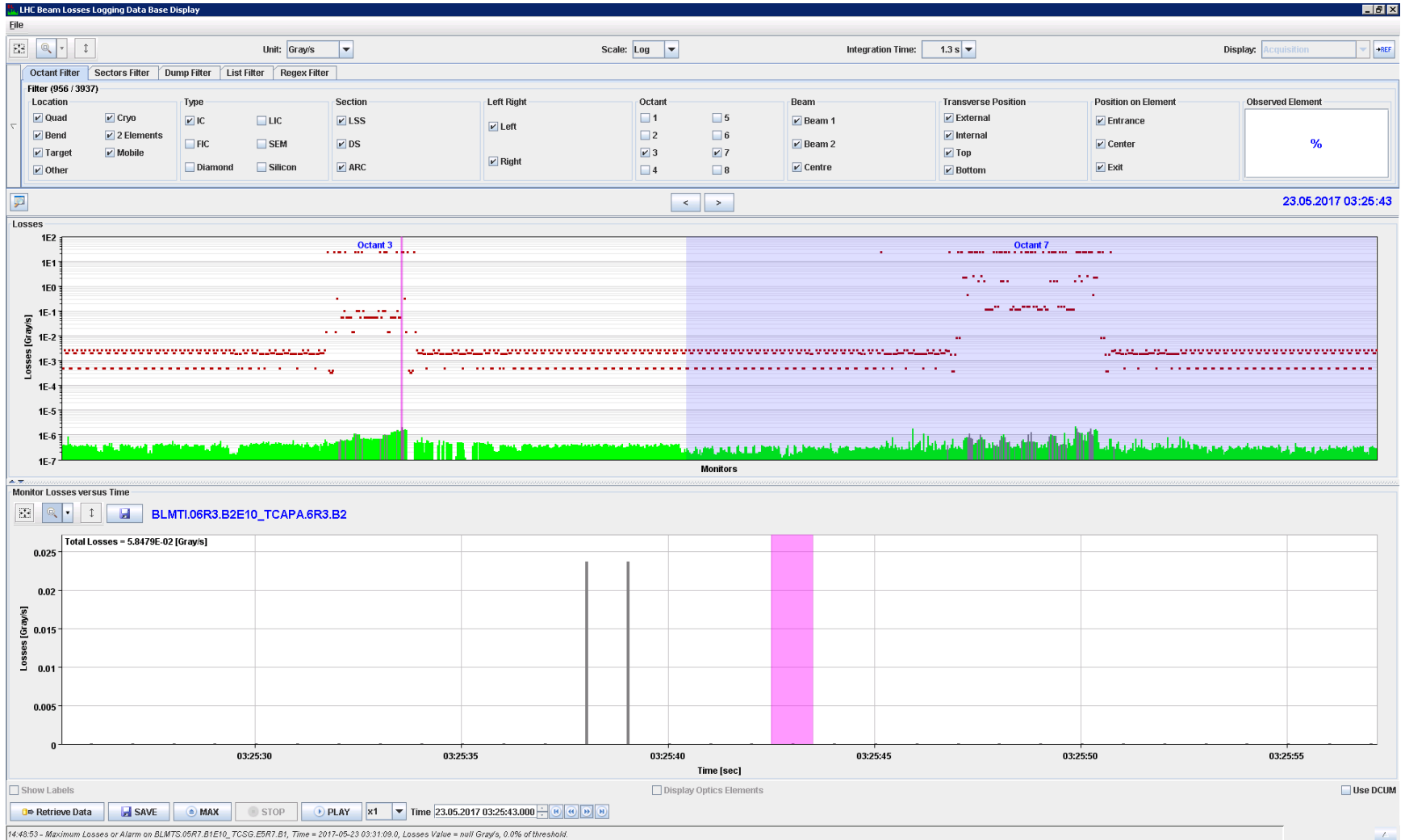
2017/05/23 03:25:41



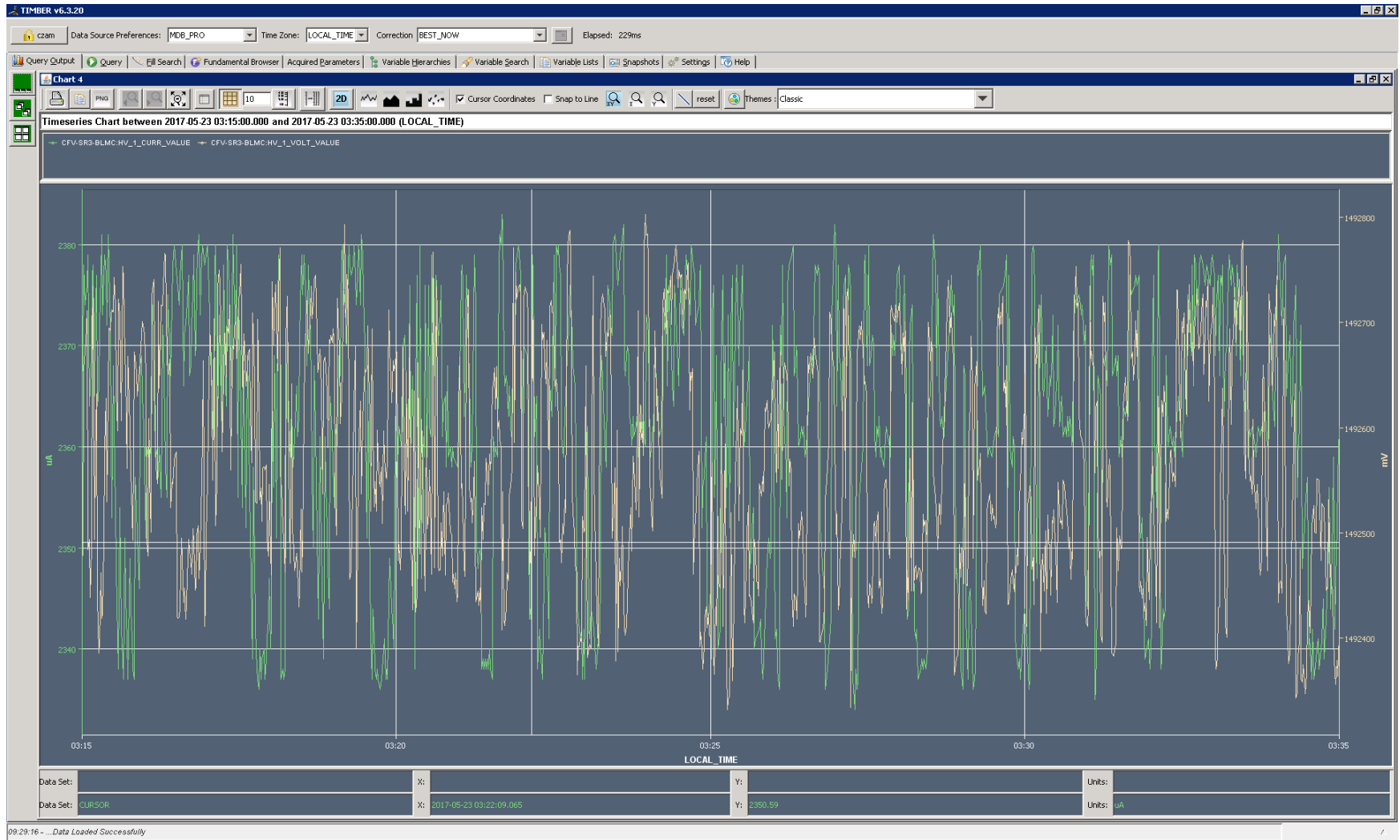
2017/05/23 03:25:42



2017/05/23 03:25:43

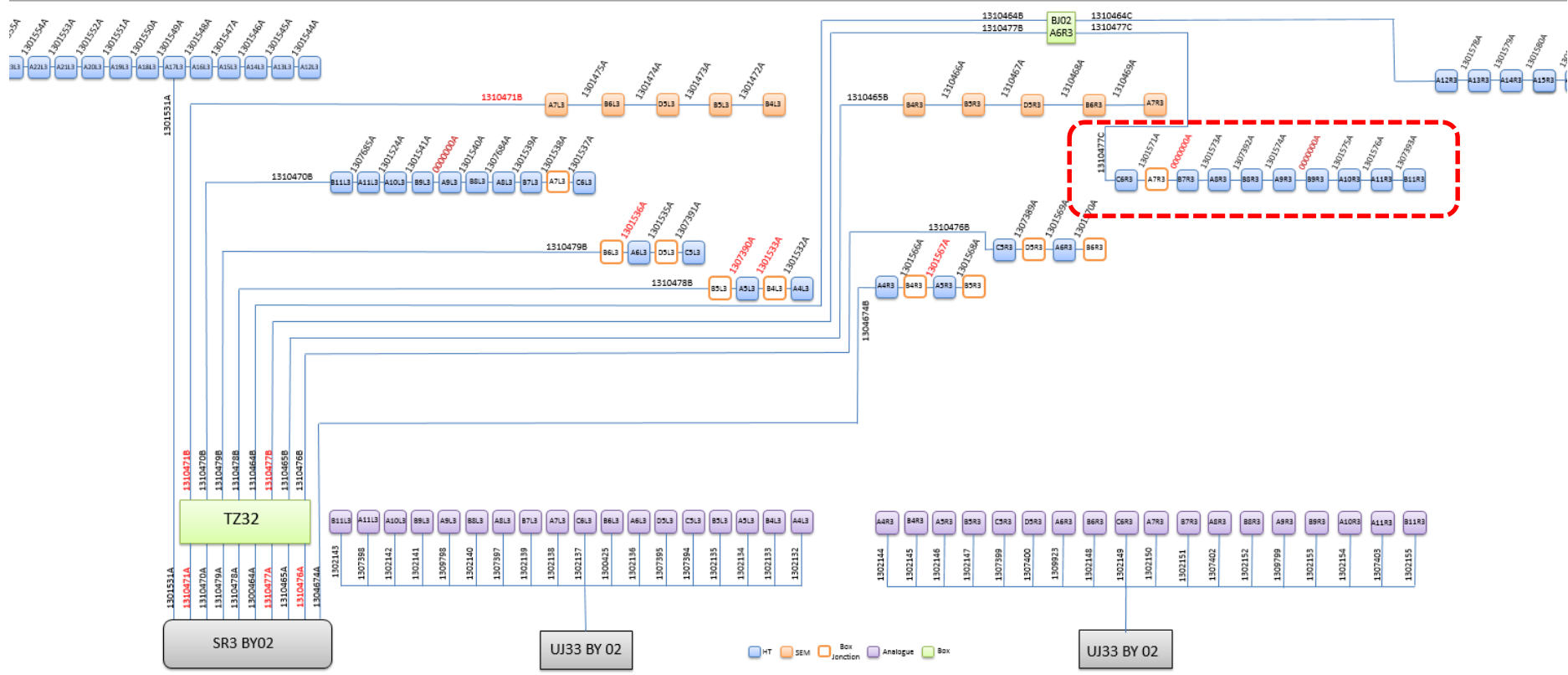


HV PSU: Current & Voltage



Installation

- Specificities of the location
 - HV cable is ~ 3km (all other locations < 200m)
 - Very long signal cables (~ 800m)



Protection

- Due to the Loss Maps all MASKABLE BLM channels were masked
- Otherwise a beam dump would have been issued from two other points already



CEA-2B3-BFWB-BEWM-IC-TIME-T	2	S013-02-S3 03:52:38'000	S013-02-S3 03:52:44'000		
CEA-2B1-BFWC-BEWM-BEWM-IC-TIME-W	3	S013-02-S3 03:52:38'000	S013-02-S3 03:52:40'000	0	I
CEA-2B3-BFWC-BEWM-BEWM-IC-TIME-W	3	S013-02-S3 03:50:02'000	S013-02-S3 03:50:02'000	0	I
CEA-2X4-BFWB-BEWM-BEWM-IC-TIME-T	0				

THANK YOU