

Fast offline QA report for August 30, 2024 – Lanny Ray

TPC:

Currently there are 11 RDOs masked: 3-6, 8-3, 10-3, 11-2,5,8, 12-1, 17-8
19-1, 20-6,7.

RDO 4-1 was masked out starting on day **235** thru **239**.

RDO 8-4 was masked out from day **235 – 239**.

RDO 9 -1 was masked out from day **237 – 239**.

RDO 11-4 was masked out from day **238 – 239**.

RDO 17-8 was masked out starting on day **238** and remains out.

RDOs 4-1, 8-4, 9-1, 11-4 were unmasked on day **239**.

Run **25239003** had no dE/dx in the 1 file that has been processed so far.

BSMD was not included in runs **25237002** and **25240020**.

ZDC/EPD: Coincidence rates were absent (0/0) in the offline monitor for runs **25240020 – 040**. This marked the start of problems with the fast offline reconstruction in which the relative fraction of questionable events (PVs) was much larger than normal for MB, HT and JP triggers.

The signed DCA distribution for these runs was shifted to positive DCAs; the maxima being pushed off the page. This is seen in runs **25240020 – 25241057**.

The large fraction of questionable events started in **25240020** (also no JP events), then resumed from **25240040** thru **25243004** which is as far as we have checked.

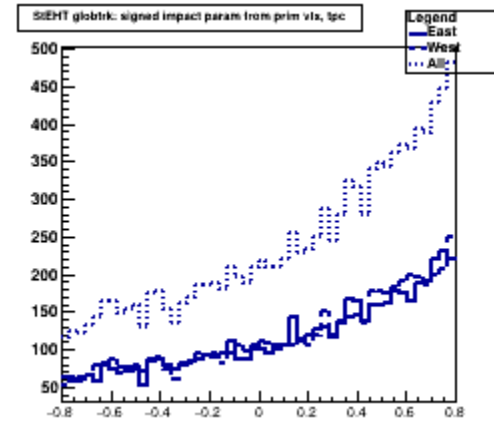
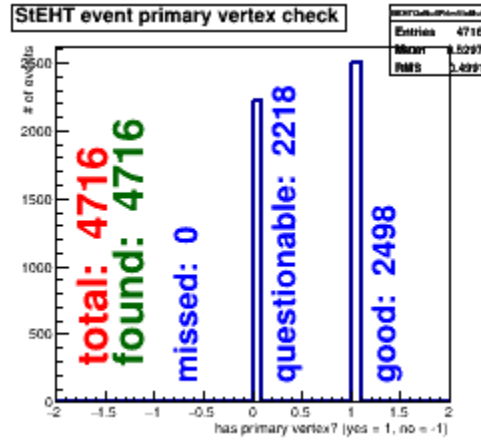
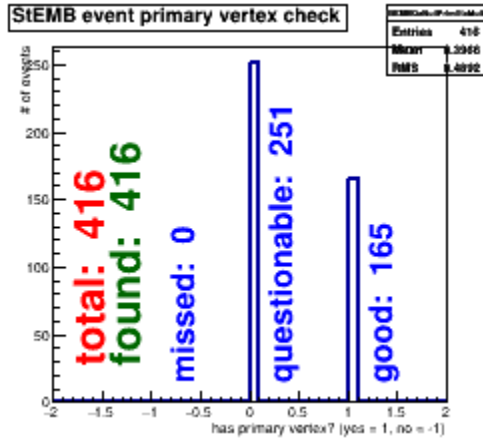
There was some improvement starting with run **25241062** in the HT and JP events, however the issue remains for the MB events.

Note that the fast offline QA histograms are generally normal, except for the DCA distributions.

Gene's comment was that the BBC rate monitor was "wonky" after the power dip a few days ago, which probably caused the space charge calibrations to be off.

These issue will likely not affect the eventual physics quality of these runs but may adversely affect the physics QA studies which rely on this production.

Examples of these issues for run 25240020



Large fraction of Questionable PVs

Large, positive shift in the signed DCA