

| Run  | Type          | Calib<br>Period | Beam<br>Energy<br>(GeV) | Beam<br>Current<br>(nA) | # of<br>Event<br>(M) | Live<br>Time<br>(%) | Decode<br>Status | Check<br>EnS | GEM<br>Raw<br>Data | Additional Comment  |
|--|---------------|-----------------|-------------------------|-------------------------|----------------------|---------------------|------------------|--------------|--------------------|---|
| <b>1.1 GeV</b>                                 |               |                 |                         |                         |                      |                     |                  |              |                    |   |
| 1059   | Full Target   | 1               | 1.1                     | 5                       |                      |                     | 0-sup            |              | no                 |   |
| 1062   | Full Target   | 1               | 1.1                     | 5                       |                      |                     | 0-sup            |              | no                 |   |
| 1071   | Full Target   | 1               | 1.1                     | 10                      |                      |                     | 0-sup            |              | no                 | very small run, only two files. Found no description on ELog                              |
| 1072   | Full Target   | 1               | 1.1                     | 8                       |                      |                     | 0-sup            |              | no                 | very small run, only three files. Found no description on ELog                            |
| 1075   | Full Target   | 1               | 1.1                     | 10                      | 3.36                 | 66                  | 0-sup            |              | no                 |   |
| 1076   | Full Target   | 1               | 1.1                     | 10                      | 2.4                  | 66                  | 0-sup            |              | no                 |   |
| 1077   | Full Target   | 1               | 1.1                     | 10                      | 6.2                  | 66                  | 0-sup            |              | no                 |   |
| 1079   | Full Target   | 1               | 1.1                     | 10                      | 5.7                  | 66                  | 0-sup            |              | no                 |   |
| 1080   | Empty Target  |                 | 1.1                     | 10                      | 1.8                  | 90                  | 0-sup            |              | no                 |   |
| 1081   | Full Target   | 1               | 1.1                     | 10                      | 6                    | 66                  | 0-sup            |              | no                 |   |
| 1082   | Full Target   | 1               | 1.1                     | 10                      | 6                    | 65                  | 0-sup            |              | no                 |   |
| 1083   | Full Target   | 1               | 1.1                     | 10                      | 6                    | 65                  | 0-sup            |              | no                 |   |
| 1084   | Empty Target  |                 | 1.1                     | 10                      | 1.7                  | 90                  | 0-sup            |              | no                 |   |
| 1085   | Full Target   | 1               | 1.1                     | 10                      | 5.9                  | 65                  | 0-sup            |              | no                 |   |
| 1086   | Full Target   | 1               | 1.1                     | 10                      | 5.9                  | 66                  | 0-sup            |              | no                 |   |
| 1087   | Full Target   | 1               | 1.1                     | 10                      | 5.96                 | 66                  | 0-sup            |              | no                 |   |
| 1088   | Empty Target  |                 | 1.1                     | 10                      | 1.6                  | 90                  | 0-sup            |              | no                 |   |
| 1091   | Empty Chamber |                 | 1.1                     | 10                      | 1.76                 | 90                  | 0-sup            |              | no                 |   |
| 1092   | Full Target   | 1               | 1.1                     | 10                      | 6                    | 65                  | 0-sup            |              | no                 |   |
| 1093   | Full Target   | 1               | 1.1                     | 10                      | 5.6                  | 65                  | 0-sup            |              | no                 |   |
| 1094   | Full Target   | 1               | 1.1                     | 10                      | 4.6                  | 65                  | 0-sup            |              | no                 |   |
| 1096   | Full Target   | 1               | 1.1                     | 10                      | 1.6                  | 65                  | 0-sup            |              | no                 | end due to beam trip  |
| 1097   | Full Target   | 1               | 1.1                     | 10                      | 1.8                  | 65                  | 0-sup            |              | no                 | end due to APV problem  |
| 1099   | Full Target   | 1               | 1.1                     | 10                      | 1.6                  | 65                  | 0-sup            |              | no                 | frequent beam trip  |
| 1100   | Full Target   | 1               | 1.1                     | 10                      | 3.38                 | 65                  | 0-sup            |              | no                 |   |
| 1101   | Full Target   | 1               | 1.1                     | 10                      | 5.7                  | 65                  | 0-sup            |              | no                 |   |
| 1103   | Empty Target  |                 | 1.1                     | 10                      | 1.6                  | 92.5                | 0-sup            |              | no                 |   |
| 1104   | Full Target   | 1               | 1.1                     | 10                      | 6.3                  | 66                  | 0-sup            |              | no                 |   |
| 1105   | Full Target   | 1               | 1.1                     | 10                      | 6.2                  | 65                  | 0-sup            |              | no                 |   |
| 1106   | Full Target   | 1               | 1.1                     | 10                      | 2.3                  | 65                  | 0-sup            |              | no                 |   |
| <b>radiation damage</b>                        |               |                 |                         |                         |                      |                     |                  |              |                    |   |
| 1122   | Empty Chamber |                 | 1.1                     | 10                      | 1.5                  | 91                  | 0-sup            | yes          | yes                | Beam position at 2H01 shift early of this run (Y from -6 to -0.5)                         |
| 1123   | Empty Chamber |                 | 1.1                     | 10                      | 1.5                  | 91                  | 0-sup            | yes          | yes                |   |
| 1125   | Empty Chamber |                 | 1.1                     | 10                      | 1.5                  | 91                  | 0-sup            | yes          | yes                | after crystal gain change   |
| 1126   | Empty Chamber |                 | 1.1                     | 10                      | 1.6                  | 91                  | 0-sup            | yes          | yes                | GEM APV problem appeared in the last 3 mins of the run                                    |
| 1127   | Empty Target  |                 | 1.1                     | 10                      | 0.6                  | 85                  | 0-sup            | yes          | yes                |   |
| 1129   | Empty Target  |                 | 1.1                     | 10                      | 1.1                  | 85                  | 0-sup            | yes          | yes                |   |
| 1130   | Empty Target  |                 | 1.1                     | 10                      | 0.17                 | 94                  | 0-sup            | yes          | yes                | Elog says calibration study, run list says background run                                 |
| 1135   | Empty Target  |                 | 1.1                     | 10                      | 2.44                 | 90                  | 0-sup            | yes          | yes                |   |
| 1136   | Full Target   | 2               | 1.1                     | 10                      | 6.6                  | 63                  | 0-sup            | yes          | yes                |   |
| 1137   | Full Target   | 2               | 1.1                     | 10                      | 2.5                  | 65                  | 0-sup            | yes          | yes                |   |
| 1147   | Empty Chamber |                 | 1.1                     | 10                      | 0.3                  | 92                  | 0-sup            | yes          | yes                |   |
| 1153   | Empty Target  |                 | 1.1                     | 10                      | 1.7                  | 90                  | 0-sup            | yes          | yes                | Beam position at 2H01 shift in the middle of this run (Y from -4.4 to -3)                 |
| 1154   | Empty Target  |                 | 1.1                     | 10                      | 1.6                  | 89                  | 0-sup            | yes          | yes                |   |
| 1155   | Full Target   | 2               | 1.1                     | 10                      | 6.4                  | 63                  | 0-sup            | yes          | yes                |   |
| 1158   | Full Target   | 2               | 1.1                     | 10                      | 6.4                  | 61                  | 0-sup            | yes          | yes                |   |
| 1159   | Full Target   | 2               | 1.1                     | 10                      | 6.54                 | 63                  | 0-sup            | yes          | yes                |   |
| 1160   | Full Target   | 2               | 1.1                     | 10                      | 7.3                  | 63                  | 0-sup            | yes          | yes                |   |
| 1161   | Empty Target  |                 | 1.1                     | 10                      | 2.2                  | 95                  | 0-sup            | yes          | yes                |   |
| 1162   | Empty Target  |                 | 1.1                     | 10                      | 0.02                 | 95                  | 0-sup            | yes          | yes                | CODA Error Message: TI not master   |
| 1163   | Empty Target  |                 | 1.1                     | 10                      | 0.65                 | 95                  | 0-sup            | yes          | yes                |   |
| <b>small radiation damage</b>                  |               |                 |                         |                         |                      |                     |                  |              |                    |   |
| 1197   | Empty Target  |                 | 1.1                     | 10                      | 1.7                  | 90                  | 0-sup            | yes          | yes                | Beam position at 2H01 shift in the middle of this run (X from -1.3 to -1 Y from -4 to -3) |
| 1198   | Empty Target  |                 | 1.1                     | 10                      | 1.66                 | 90                  | 0-sup            | yes          | yes                |   |
| 1201   | Full Target   | 3               | 1.1                     | 10                      | 6.5                  | 63                  | 0-sup            | yes          | yes                |   |
| 1202   | Full Target   | 3               | 1.1                     | 10                      | 6.6                  | 63                  | 0-sup            | yes          | yes                |   |
| 1203   | Full Target   | 3               | 1.1                     | 10                      | 7.48                 | 62                  | 0-sup            | yes          | yes                |   |
| 1205   | Full Target   | 3               | 1.1                     | 10                      | 7.18                 | 62                  | 0-sup            | yes          | yes                |   |
| 1206   | Full Target   | 3               | 1.1                     | 10                      | 6.7                  | 62                  | 0-sup            | yes          | yes                |   |
| 1207   | Full Target   | 3               | 1.1                     | 10                      | 5.8                  | 62                  | 0-sup            | yes          | yes                |   |
| <b>30 ns gate shift</b>                        |               |                 |                         |                         |                      |                     |                  |              |                    |   |
| 1237   | Empty Target  |                 | 1.1                     | 10                      | 2.2                  | 98                  | 0-sup            | yes          | yes                | a few mm shift for BPM 2H01 for the y coordinate of the beam spot at early stage          |
| 1238   | Full Target   | 4               | 1.1                     | 10                      | 2.1                  | 91                  | 0-sup            | yes          | yes                |   |
| 1240   | Full Target   | 4               | 1.1                     | 10                      | 10.2                 | 91                  | 0-sup            | yes          | yes                |   |
| 1241   | Full Target   | 4               | 1.1                     | 10                      | 9.7                  | 91                  | 0-sup            | yes          | yes                |   |
| 1242   | Full Target   | 4               | 1.1                     | 10                      | 9.24                 | 91                  | 0-sup            | yes          | yes                |   |
| 1243   | Full Target   | 4               | 1.1                     | 10                      | 15                   | 91                  | 0-sup            | yes          | yes                |   |
| <b>change of 64 pedestal (change of board)</b> |               |                 |                         |                         |                      |                     |                  |              |                    |   |
| 1287   | Full Target   | 5               | 1.1                     | 15                      | 13.3                 | 86                  | 0-sup            | yes          | yes                |   |
| 1288   | Full Target   | 5               | 1.1                     | 15                      | 13.2                 | 87                  | 0-sup            | yes          | yes                |   |
| 1289   | Empty Target  |                 | 1.1                     | 15                      | 3.2                  | 97                  | 0-sup            | yes          | yes                |   |
| 1290   | Full Target   | 5               | 1.1                     | 15                      | 11.7                 | 87                  | 0-sup            | yes          | yes                |   |
| 1291   | Full Target   | 5               | 1.1                     | 15                      | 13.9                 | 87                  | 0-sup            | yes          | yes                |   |
| 1292   | Full Target   | 5               | 1.1                     | 15                      | 14.1                 | 87                  | 0-sup            | yes          | yes                | cell temperature, pressure mean value shift during the run                                |
| 1293   | Full Target   | 5               | 1.1                     | 15                      | 13.7                 | 85                  | 0-sup            | yes          | yes                |   |
| 1294   | Empty Target  |                 | 1.1                     | 15                      | 3.3                  | 97                  | 0-sup            | yes          | yes                |   |

|             |               |   |     |    |       |    |       |     |     |
|-------------|---------------|---|-----|----|-------|----|-------|-----|-----|
| 1295        | Full Target   | 5 | 1.1 | 15 | 13.2  | 85 | 0-sup | yes | yes |
| 1296        | Full Target   | 5 | 1.1 | 15 | 1.2   | 87 | 0-sup | yes | yes |
| 1301        | Full Target   | 5 | 1.1 | 15 | 5     | 85 | 0-sup | yes | yes |
| 1302        | Full Target   | 5 | 1.1 | 15 | 13.7  | 86 | 0-sup | yes | yes |
| 1303        | Full Target   | 5 | 1.1 | 15 | 14.1  | 87 | 0-sup | yes | yes |
| 1304        | Full Target   | 5 | 1.1 | 15 | 14    | 87 | 0-sup | yes | yes |
| 1306        | Empty Target  |   | 1.1 | 15 | 3.1   | 97 | 0-sup | yes | yes |
| 1307        | Full Target   | 5 | 1.1 | 15 | 13.7  | 87 | 0-sup | yes | yes |
| 1308        | Full Target   | 5 | 1.1 | 15 | 13.7  | 86 | 0-sup | yes | yes |
| 1309        | Full Target   | 5 | 1.1 | 15 | 13.5  | 86 | 0-sup | yes | yes |
| 1310        | Full Target   | 5 | 1.1 | 15 | 3.04  | 86 | 0-sup | yes | yes |
| 1311        | Full Target   | 5 | 1.1 | 15 | 14.57 | 85 | 0-sup | yes | yes |
| 1312        | Empty Target  | 5 | 1.1 | 15 | 2.9   | 98 | 0-sup | yes | yes |
| 1313        | Full Target   | 5 | 1.1 | 15 | 13.9  | 87 | 0-sup | yes | yes |
| 1314        | Full Target   | 5 | 1.1 | 15 | 13.9  | 86 | 0-sup | yes | yes |
| 1315        | Full Target   | 5 | 1.1 | 15 | 13.9  | 85 | 0-sup | yes | yes |
| 1316        | Full Target   | 5 | 1.1 | 15 | 13.9  | 87 | 0-sup | yes | yes |
| 1317        | Empty Target  |   | 1.1 | 15 | 3.2   | 97 | 0-sup | yes | yes |
| 1318        | Empty Target  |   | 1.1 | 15 | 3.1   | 97 | 0-sup | yes | yes |
| 1319        | Full Target   | 5 | 1.1 | 15 | 13.8  | 85 | 0-sup | yes | yes |
| 1320        | Full Target   | 5 | 1.1 | 15 | 13.8  | 85 | 0-sup | yes | yes |
| 1322        | Full Target   | 5 | 1.1 | 15 | 13.9  | 85 | 0-sup | yes | yes |
| 1323        | Full Target   | 5 | 1.1 | 15 | 14.1  | 86 | 0-sup | yes | yes |
| 1324        | Empty Target  |   | 1.1 | 15 | 3.3   | 97 | 0-sup | yes | yes |
| 1325        | Full Target   | 5 | 1.1 | 15 | 13.6  | 86 | 0-sup | yes | yes |
| 1326        | Empty Target  |   | 1.1 | 15 | 3.27  | 97 | 0-sup | yes | yes |
| 1327        | Empty Target  |   | 1.1 | 15 | 3.1   | 97 | 0-sup | yes | yes |
| 1328        | Full Target   | 5 | 1.1 | 15 | 9.9   | 86 | 0-sup | yes | yes |
| 1329        | Empty Target  |   | 1.1 | 15 | 2.9   | 97 | 0-sup | yes | yes |
| 1330        | Empty Target  |   | 1.1 | 15 | 3.1   | 97 | 0-sup | yes | yes |
| 1331        | Full Target   | 5 | 1.1 | 15 | 13.1  | 86 | 0-sup | yes | yes |
| 1332        | Full Target   | 5 | 1.1 | 15 | 3.1   | 86 | 0-sup | yes | yes |
| 1334        | Full Target   | 5 | 1.1 | 15 | 5.3   | 83 | 0-sup | yes | yes |
| 1336        | Full Target   | 5 | 1.1 | 15 | 12.3  | 86 | 0-sup | yes | yes |
| 1337        | Full Target   | 5 | 1.1 | 15 | 14.4  | 86 | 0-sup | yes | yes |
| 1338        | Full Target   | 5 | 1.1 | 15 | 13.9  | 86 | 0-sup | yes | yes |
| 1339        | Empty Target  |   | 1.1 | 15 | 3.3   | 97 | 0-sup | yes | yes |
| 1340        | Full Target   | 5 | 1.1 | 15 | 14.3  | 86 | 0-sup | yes | yes |
| 1341        | Full Target   | 5 | 1.1 | 15 | 20    | 84 | 0-sup | yes | yes |
| 1342        | Empty Chamber |   | 1.1 | 15 | 2.2   | 97 | 0-sup | yes | yes |
| 1345        | Carbon        |   | 1.1 | 1  | 24.2  | 70 | 0-sup | yes | yes |
| 2.2 GeV     |               |   |     |    |       |    |       |     |     |
| 1362        | Full Target   | 6 | 2.2 | 15 | 3.49  | 98 | 0-sup | yes | yes |
| 1369        | Empty Target  |   | 2.2 | 15 | 3.49  | 99 | 0-sup | yes | yes |
| 1370        | Full Target   | 6 | 2.2 | 20 | 0.71  | 95 | 0-sup | yes | yes |
| 1371        | Full Target   | 6 | 2.2 | 24 | 5.58  | 95 | 0-sup | yes | yes |
| 1372        | Full Target   | 6 | 2.2 | 25 | 5.71  | 95 | 0-sup | yes | yes |
| 1373        | Full Target   | 6 | 2.2 | 25 | 6     | 95 | 0-sup | yes | yes |
| 1374        | Full Target   | 6 | 2.2 | 25 | 6.99  | 95 | 0-sup | yes | yes |
| 1381        | Empty Target  |   | 2.2 | 25 | 1.07  | 99 | 0-sup | yes | yes |
| 1382        | Full Target   | 6 | 2.2 | 25 | 5.6   | 95 | 0-sup | yes | yes |
| 1383        | Full Target   | 6 | 2.2 | 25 | 5.6   | 95 | 0-sup | yes | yes |
| 1384        | Full Target   | 6 | 2.2 | 25 | 5.8   | 95 | 0-sup | yes | yes |
| 1385        | Full Target   | 6 | 2.2 | 25 | 5.6   | 94 | 0-sup | yes | yes |
| 1386        | Empty Target  |   | 2.2 | 25 | 0.2   | 99 | 0-sup | yes | yes |
| 1387        | Empty Target  |   | 2.2 | 25 | 0.2   | 99 | 0-sup | yes | yes |
| 1394        | Full Target   | 6 | 2.2 | 57 | 12.27 | 89 | 0-sup | yes | yes |
| 1395        | Full Target   | 6 | 2.2 | 57 | 11.56 | 89 | 0-sup | yes | yes |
| 1396        | Full Target   | 6 | 2.2 | 55 | 12.24 | 89 | 0-sup | yes | yes |
| 1397        | Full Target   | 6 | 2.2 | 55 | 9.8   | 88 | 0-sup | yes | yes |
| 1399        | Empty Target  |   | 2.2 | 55 | 2.2   | 98 | 0-sup | yes | yes |
| 1400        | Full Target   | 6 | 2.2 | 55 | 11.8  | 89 | 0-sup | yes | yes |
| 1401        | Full Target   | 6 | 2.2 | 55 | 11.5  | 89 | 0-sup | yes | yes |
| 1404        | Full Target   | 6 | 2.2 | 55 | 10.7  | 89 | 0-sup | yes | yes |
| 1405        | Full Target   | 6 | 2.2 | 55 | 11.6  | 89 | 0-sup | yes | yes |
| tail of LMS |               |   |     |    |       |    |       |     |     |
| 1406        | Empty Target  |   | 2.2 | 55 | 1.16  | 97 | 0-sup | yes | yes |
| 1411        | Empty Target  |   | 2.2 | 55 | 1.23  | 97 | 0-sup | yes | yes |
| 1412        | Full Target   | 7 | 2.2 | 55 | 11.15 | 89 | 0-sup | yes | yes |
| 1413        | Full Target   | 7 | 2.2 | 55 | 11.3  | 89 | 0-sup | yes | yes |
| 1415        | Full Target   | 7 | 2.2 | 55 | 11.7  | 89 | 0-sup | yes | yes |
| 1416        | Full Target   | 7 | 2.2 | 55 | 11.7  | 89 | 0-sup | yes | yes |
| 1417        | Empty Target  |   | 2.2 | 55 | 2     | 98 | 0-sup | yes | yes |
| 1418        | Empty Target  |   | 2.2 | 55 | 2     | 98 | 0-sup | yes | yes |
| 1420        | Full Target   | 7 | 2.2 | 55 | 4.2   | 89 | 0-sup | yes | yes |
| 1421        | Full Target   | 7 | 2.2 | 55 | 11    | 89 | 0-sup | yes | yes |
| 1422        | Full Target   | 7 | 2.2 | 55 | 12    | 89 | 0-sup | yes | yes |
| 1423        | Full Target   | 7 | 2.2 | 55 | 10.7  | 89 | 0-sup | yes | yes |
| 1424        | Full Target   | 7 | 2.2 | 55 | 11.4  | 89 | 0-sup | yes | yes |
| 1425        | Empty Target  |   | 2.2 | 55 | 2     | 98 | 0-sup | yes | yes |
| 1426        | Full Target   | 7 | 2.2 | 55 | 10.7  | 89 | 0-sup | yes | yes |
| 1427        | Full Target   | 7 | 2.2 | 55 | 10.8  | 89 | 0-sup | yes | yes |
| 1428        | Full Target   | 7 | 2.2 | 55 | 0.76  | 89 | 0-sup | yes | yes |
| 1429        | Full Target   | 7 | 2.2 | 55 | 11.1  | 89 | 0-sup | yes | yes |
| 1430        | Full Target   | 7 | 2.2 | 55 | 11.5  | 89 | 0-sup | yes | yes |
| 1431        | Empty Target  |   | 2.2 | 55 | 1.9   | 98 | 0-sup | yes | yes |

end due to APV problem  
One of GEM chamber has trimmed

cell temperature not very flat, target EPCIS position becomes 0 after this run (see Elog)

end run due to thunder  
stopped due to storm

EPCIS cell position information comes back  
short and unstable production run  
obvious mean beam position shift (2C24) at the second half of the run  
beam current increase by 2nA (starts from 23nA) during the run  
mean value of beam current not very stable

cell temperature, pressure doesn't seem to be very flat

don't have EPCIS event before 200k

Run was ended because one of the APV had problem.  
APV has problem again and there is high voltage drift.

No beam in last 5 minutes.

|      |               |   |     |    |       |      |       |     |     |
|------|---------------|---|-----|----|-------|------|-------|-----|-----|
| 1443 | Full Target   | 8 | 2.2 | 55 | 11.7  | 89   | 0-sup | yes | yes |
| 1444 | Full Target   | 8 | 2.2 | 55 | 13    | 89   | 0-sup | yes | yes |
| 1445 | Full Target   | 8 | 2.2 | 55 | 11.8  | 89   | 0-sup | yes | yes |
| 1446 | Full Target   | 8 | 2.2 | 55 | 11.96 | 89   | 0-sup | yes | yes |
| 1447 | Empty Target  |   | 2.2 | 55 | 0.1   | N/A  | 0-sup | yes | yes |
| 1448 | Empty Target  |   | 2.2 | 55 | 2.16  | 98   | 0-sup | yes | yes |
| 1449 | Full Target   | 8 | 2.2 | 55 | 8.4   | 89   | 0-sup | yes | yes |
| 1451 | Full Target   | 8 | 2.2 | 55 | 16    | 89   | 0-sup | yes | yes |
| 1452 | Full Target   | 8 | 2.2 | 55 | 11.1  | 89   | 0-sup | yes | yes |
| 1453 | Full Target   | 8 | 2.2 | 55 | 11.3  | 89   | 0-sup | yes | yes |
| 1454 | Empty Target  |   | 2.2 | 55 | 2.1   | 98   | 0-sup | yes | yes |
| 1455 | Full Target   | 8 | 2.2 | 55 | 11    | 89   | 0-sup | yes | yes |
| 1456 | Full Target   | 8 | 2.2 | 55 | 10.5  | 89   | 0-sup | yes | yes |
| 1457 | Full Target   | 8 | 2.2 | 55 | 11.1  | 89   | 0-sup | yes | yes |
| 1458 | Full Target   | 8 | 2.2 | 55 | 11.2  | 89   | 0-sup | yes | yes |
| 1459 | Empty Target  |   | 2.2 | 55 | 2.11  | 98   | 0-sup | yes | yes |
| 1460 | Full Target   | 8 | 2.2 | 55 | 10.8  | 89   | 0-sup | yes | yes |
| 1461 | Full Target   | 8 | 2.2 | 55 | 10.8  | 89   | 0-sup | yes | yes |
| 1462 | Full Target   | 8 | 2.2 | 55 | 11.6  | 89   | 0-sup | yes | yes |
| 1463 | Full Target   | 8 | 2.2 | 55 | 11.7  | 89   | 0-sup | yes | yes |
| 1465 | Empty Target  |   | 2.2 | 55 | 1.75  | 98   | 0-sup | yes | yes |
| 1466 | Full Target   | 8 | 2.2 | 55 | 11.5  | 89   | 0-sup | yes | yes |
| 1467 | Full Target   | 8 | 2.2 | 55 | 11.25 | 89   | 0-sup | yes | yes |
| 1468 | Full Target   | 8 | 2.2 | 55 | 11    | 89   | 0-sup | yes | yes |
| 1469 | Empty Target  |   | 2.2 | 55 | 2     | 98   | 0-sup | yes | yes |
| 1470 | Full Target   | 8 | 2.2 | 55 | 11.89 | 89   | 0-sup | yes | yes |
| 1471 | Full Target   | 8 | 2.2 | 55 | 11.43 | 89   | 0-sup | yes | yes |
| 1472 | Full Target   | 8 | 2.2 | 55 | 11.36 | 89   | 0-sup | yes | yes |
| 1473 | Empty Target  |   | 2.2 | 55 | 2.13  | 98   | 0-sup | yes | yes |
| 1474 | Full Target   | 8 | 2.2 | 55 | 10.91 | 89   | 0-sup | yes | yes |
| 1475 | Full Target   | 8 | 2.2 | 55 | 9.99  | 89   | 0-sup | yes | yes |
| 1476 | Full Target   | 8 | 2.2 | 55 | 10.5  | 89   | 0-sup | yes | yes |
| 1477 | Empty Target  |   | 2.2 | 55 | 2.1   | 98   | 0-sup | yes | yes |
| 1478 | Full Target   | 8 | 2.2 | 55 | 8.9   | 89   | 0-sup | yes | yes |
| 1479 | Full Target   | 8 | 2.2 | 55 | 11.2  | 89   | 0-sup | yes | yes |
| 1480 | Full Target   | 8 | 2.2 | 55 | 10.4  | 89   | 0-sup | yes | yes |
| 1481 | Empty Target  |   | 2.2 | 55 | 2.02  | 98   | 0-sup | yes | yes |
| 1482 | Full Target   | 8 | 2.2 | 55 | 11    | 89   | 0-sup | yes | yes |
| 1483 | Full Target   | 8 | 2.2 | 55 | 0.08  | 89   | 0-sup | yes | yes |
| 1484 | Full Target   | 8 | 2.2 | 55 | 11    | 89   | 0-sup | yes | yes |
| 1485 | Full Target   | 8 | 2.2 | 55 | 11.1  | 89   | 0-sup | yes | yes |
| 1486 | Empty Target  |   | 2.2 | 55 | 2.1   | 98   | 0-sup | yes | yes |
| 1487 | Full Target   | 8 | 2.2 | 55 | 13    | 89   | 0-sup | yes | yes |
| 1488 | Full Target   | 8 | 2.2 | 55 | 11.2  | 84   | 0-sup | yes | yes |
| 1489 | Full Target   | 8 | 2.2 | 55 | 11.3  | 80   | 0-sup | yes | yes |
| 1490 | Empty Target  |   | 2.2 | 55 | 2     | 98   | 0-sup | yes | yes |
| 1491 | Full Target   | 8 | 2.2 | 55 | 11    | 84   | 0-sup | yes | yes |
| 1492 | Full Target   | 8 | 2.2 | 55 | 6.1   | 80   | 0-sup | yes | yes |
| 1495 | Full Target   | 8 | 2.2 | 55 | 10.2  | 89   | 0-sup | yes | yes |
| 1496 | Empty Target  |   | 2.2 | 55 | 0.76  | 98   | 0-sup | yes | yes |
| 1498 | Carbon        |   | 2.2 | 1  | 8.25  | 90   | 0-sup | yes | yes |
| 1501 | Carbon        |   | 2.2 | 1  | 2     | 91   | 0-sup | yes | yes |
| 1502 | Empty Chamber |   | 2.2 | 1  | 0.094 | N/A  | 0-sup | yes | yes |
| 1503 | Empty Chamber |   | 2.2 | 55 | 1.8   | 98   | 0-sup | yes | yes |
| 1505 | Empty Chamber |   | 2.2 | 5  | 0.24  | 99   | 0-sup | yes | yes |
| 1506 | Full Target   | 8 | 2.2 | 40 | 10.8  | 92   | 0-sup | yes | yes |
| 1507 | Full Target   | 8 | 2.2 | 40 | 11    | 92   | 0-sup | yes | yes |
| 1508 | Full Target   | 8 | 2.2 | 40 | 11    | 92   | 0-sup | yes | yes |
| 1509 | Empty Target  |   | 2.2 | 40 | 2     | 98.5 | 0-sup | yes | yes |
| 1510 | Full Target   | 8 | 2.2 | 40 | 10.2  | 92   | 0-sup | yes | yes |
| 1511 | Full Target   | 8 | 2.2 | 40 | 1.46  | 92   | 0-sup | yes | yes |
| 1512 | Full Target   | 8 | 2.2 | 40 | 8.64  | 92   | 0-sup | yes | yes |
| 1513 | Full Target   | 8 | 2.2 | 40 | 7.88  | 83   | 0-sup | yes | yes |
| 1514 | Empty Target  |   | 2.2 | 40 | 1.17  | 98   | 0-sup | yes | yes |
| 1515 | Empty Target  |   | 2.2 | 55 | 1.95  | 98   | 0-sup | yes | yes |
| 1516 | Full Target   | 8 | 2.2 | 55 | 6.39  | 89   | 0-sup | yes | yes |

Short run, ~ 3 mins only. Stopped to take empty cell only run

Run ended 10mins early because beam trip more than 6mins.

Run stop 12 min earlier as beam was becoming unstable

Frequent beam trip (~every 20 min)

(bad run)ended due to the beam off

serious live time drops for half of the run

serious live time drops for half of the run

serious live time drops for half of the run

serious live time drops for most of the run

serious live time drops for half of the run

end due to APV problem

too few events to count live time

no beam for most of the run

target cell T, P and target thickness not very flat

Beam tripped off so we stopped this run after 19 mins

serious live time drops for most of the run

Beam down for 7 mins, therefore we stopped the run early (50 mins)

last run