

The order of this data package is as follows:

1. Chain-of-Custody/Lab Request
2. Copies of field COCs
3. Validation Report
4. Laboratory analysis

Comments:

Validation report not required for University of Illinois samples.

[illegible]

[illegible]

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11366

EVENT NAME: Mortandad/Sandia (Cr Inv) MY2017 Q4

SAMPLE ID: CASA-17-142775

WORK ORDER:

| | AS PLANNED | AS COLLECTED | | AS PLANNED | AS COLLECTED |
|---------------------------------|---------------|--------------|----------------------|---------------|----------------------|
| Date Collected (MM/DD/YYYY): | 8/1/17 | OK | FIELD MATRIX: | WG | OK |
| TIME COLLECTED (HH:MM): | 1149 | | MEDIA: | UA | |
| PRS ID: | OK | | SAMPLE TECH CODE: | GSP | |
| LOCATION ID: | R-67 | | FIELD PREP: | F | |
| LOCATION TYPE: | OK | | FIELD QC TYPE: | REG | |
| TOP DEPTH: | ↓ | | SAMPLE USAGE: | INV | ↓ |
| BOTTOM DEPTH: | ↓ | ↓ | EXCAVATED: | | YES / NO / <u>NA</u> |

| PRIORITY | ORDER | CONTAINER | # | PRESERVATIVE | COLLECTED Y/N | SPECIAL INSTRUCTIONS |
|----------|----------------------------------|-----------------------|---|--------------|---------------|----------------------|
| NA | WSP-All Metals | 1 LITER POLY | 1 | HNO3 ICE | Y | NA |
| ↓ | WSP-CR52/53 | 1 LITER POLY | 1 | ICE | ↓ | ↓ |
| ↓ | WSP- GENINORG+PerChlorat e | 1 LITER POLY | 1 | ICE | ↓ | ↓ |
| ↓ | WSP- NH3+NO3/NO2 | 500 ML AMBER GLASS | 1 | H2SO4 | ↓ | ↓ |

SAMPLE COMMENTS:

LOCATION COMMENTS:

FIELD PARAMETERS:

AS 8/1/17

| | | | | | | |
|----------------------------------|-------|-------|------------------|-------|-------------------------|-------|
| Sample Time | _____ | HH:MM | Dissolved Oxygen | _____ | Flow (in gpm) | _____ |
| Oxidation-Reduction Potential | _____ | | pH | _____ | Specific Conductance | _____ |
| Temperature | _____ | | Turbidity | _____ | | |

COLLECTED BY (PRINT): D. Jaramillo

| | | | |
|--|-----------------------------|---|-----------------------------|
| RELINQUISHED BY (Printed Name) Daniel Jaramillo (Signature) <i>[Signature]</i> | Date/Time 8/1/17 1435 | RECEIVED BY (Printed Name) M. Mark (Signature) <i>[Signature]</i> | Date/Time 8/1/17 1435 |
| RELINQUISHED BY (Printed Name) (Signature) | Date/Time | RECEIVED BY (Printed Name) (Signature) | Date/Time |

Report Date: 07/25/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11366

EVENT NAME: Mortandad/Sandia (Cr Inv) MY2017 Q4

SAMPLE ID: CASA-17-142776

WORK ORDER:

| | AS PLANNED | AS COLLECTED | | AS PLANNED | AS COLLECTED |
|---------------------------------|---------------|--------------|----------------------|---------------|-----------------|
| Date Collected (MM/DD/YYYY): | 8/9/2017 | OK | FIELD MATRIX: | WG | OK |
| TIME COLLECTED (HH:MM): | 1301 | | MEDIA: | UA | |
| PRS ID: | NA | | SAMPLE TECH CODE: | GSP | |
| LOCATION ID: | R-43 S1 | | FIELD PREP: | F | |
| LOCATION TYPE: | NA | | FIELD QC TYPE: | REG | |
| TOP DEPTH: | ↓ | | SAMPLE USAGE: | INV | ↓ |
| BOTTOM DEPTH: | ↓ | ↓ | EXCAVATED: | | YES / NO / (NA) |

| PRIORITY | ORDER | CONTAINER | # | PRESERVATIVE | COLLECTED Y/N | SPECIAL INSTRUCTIONS |
|----------|----------------------------------|-----------------------|---|--------------|---------------|----------------------|
| NA | WSP-All Metals | 1 LITER POLY | 1 | HNO3 ICE | Y | NA |
| ↓ | WSP-CR52/53 | 1 LITER POLY | 1 | ICE | ↓ | ↓ |
| ↓ | WSP- GENINORG+PerChlorat e | 1 LITER POLY | 1 | ICE | ↓ | ↓ |
| ↓ | WSP- NH3+NO3/NO2 | 500 ML AMBER GLASS | 1 | H2SO4 | ↓ | ↓ |

SAMPLE COMMENTS: None

LOCATION COMMENTS: None

FIELD PARAMETERS:

Sample Time _____ HH:MM _____ Dissolved Oxygen _____ Flow (in gpm) _____
 Oxidation-Reduction _____ pH _____ Specific _____
 Potential _____ Conductance _____
 Temperature _____ Turbidity _____

KT 8/9/17

COLLECTED BY (PRINT): T. Vander Vis & D. Hughes

| | | | |
|--|-----------------------------|--|-----------------------------|
| RELINQUISHED BY (Printed Name) (Signature) | Date/Time 8/9/17 1400 | RECEIVED BY (Printed Name) (Signature) | Date/Time 8/9/17 1400 |
| RELINQUISHED BY (Printed Name) Tanya Vander Vis (Signature) Tanya Vander Vis | Date/Time 8-9-17 1400 | RECEIVED BY (Printed Name) (Signature) | Date/Time |

Report Date: 07/25/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11366

EVENT NAME: Mortandad/Sandia (Cr Inv) MY2017 Q4

SAMPLE ID: CAMO-17-142777

WORK ORDER:

| | AS PLANNED | AS COLLECTED | | AS PLANNED | AS COLLECTED |
|---------------------------------|---------------|--------------|----------------------|---------------|-----------------|
| Date Collected (MM/DD/YYYY): | 8/17/2017 | OK | FIELD MATRIX: | WG | OK |
| TIME COLLECTED (HH:MM): | 1242 | | MEDIA: | UA | |
| PRS ID: | NA | | SAMPLE TECH CODE: | GSP | |
| LOCATION ID: | MCOI-6 | | FIELD PREP: | F | |
| LOCATION TYPE: | NA | | FIELD QC TYPE: | REG | |
| TOP DEPTH: | | | SAMPLE USAGE: | INV | |
| BOTTOM DEPTH: | | | EXCAVATED: | | YES / NO / (NA) |

| PRIORITY | ORDER | CONTAINER | # | PRESERVATIVE | COLLECTED Y/N | SPECIAL INSTRUCTIONS |
|----------|----------------------------------|-----------------------|---|--------------|---------------|----------------------|
| NA | WSP-All Metals | 1 LITER POLY | 1 | HNO3 ICE | Y | NA |
| | WSP-CR52/53 | 1 LITER POLY | 1 | ICE | | |
| | WSP- GENINORG+PerChlorat e | 1 LITER POLY | 1 | ICE | | |
| | WSP- NH3+NO3/NO2 | 500 ML AMBER GLASS | 1 | H2SO4 | | |

SAMPLE COMMENTS: None

LOCATION COMMENTS: None

FIELD PARAMETERS:

Sample Time _____ HH:MM _____ Dissolved Oxygen _____ Flow (in gpm) _____
 Oxidation-Reduction Potential _____ pH _____ Specific Conductance _____
 Temperature _____ Turbidity _____

COLLECTED BY (PRINT): M. Shendo, D. Jaramillo

| | | | |
|---|--------------------------------|---|-------------------------------|
| RELINQUISHED BY (Printed Name) Daniel Jaramillo (Signature) <i>DJ</i> | Date/Time 8/17/2017 1434 | RECEIVED BY MAT ENGLERT (Printed Name) <i>M-Englert</i> (Signature) | Date/Time 8-7-2017 1434 |
| RELINQUISHED BY (Printed Name) (Signature) | Date/Time | RECEIVED BY (Printed Name) (Signature) | Date/Time |

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11366

EVENT NAME: Mortandad/Sandia (Cr Inv) MY2017 Q4

SAMPLE ID: CAMO-17-142778

WORK ORDER:

| | AS PLANNED | AS COLLECTED | | AS PLANNED | AS COLLECTED |
|---------------------------------|---------------|--------------|----------------------|---------------|-----------------|
| Date Collected (MM/DD/YYYY): | 8/2/17 | OK | FIELD MATRIX: | WG | OK |
| TIME COLLECTED (HH:MM): | 1017 | | MEDIA: | UA | |
| PRS ID: | OK | | SAMPLE TECH CODE: | GSP | |
| LOCATION ID: | R-45 S1 | | FIELD PREP: | F | |
| LOCATION TYPE: | OK | | FIELD QC TYPE: | REG | |
| TOP DEPTH: | ↓ | ↓ | SAMPLE USAGE: | INV | ↓ |
| BOTTOM DEPTH: | ↓ | ↓ | EXCAVATED: | | YES / NO / (NA) |

| PRIORITY | ORDER | CONTAINER | # | PRESERVATIVE | COLLECTED Y/N | SPECIAL INSTRUCTIONS |
|----------|----------------------------------|-----------------------|---|--------------|---------------|----------------------|
| NA | WSP-All Metals | 1 LITER POLY | 1 | HNO3 ICE | Y | NA |
| ↓ | WSP-CR52/53 | 1 LITER POLY | 1 | ICE | ↓ | ↓ |
| ↓ | WSP- GENINORG+PerChlorat e | 1 LITER POLY | 1 | ICE | ↓ | ↓ |
| ↓ | WSP- NH3+NO3/NO2 | 500 ML AMBER GLASS | 1 | H2SO4 | ↓ | ↓ |

SAMPLE COMMENTS:

LOCATION COMMENTS:

FIELD PARAMETERS:

Sample Time _____ HH:MM _____ Dissolved Oxygen _____ Flow (in gpm) _____
Oxidation-Reduction _____ pH _____ Specific _____
Potential _____ Conductance _____
Temperature _____ Turbidity _____

COLLECTED BY (PRINT): K. Tow, D. Hughes

| | | | |
|--|-----------------------------|--|-----------------------------|
| RELINQUISHED BY (Printed Name) (Signature) | Date/Time 8/2/17 1320 | RECEIVED BY (Printed Name) (Signature) | Date/Time 8/2/17 1320 |
| RELINQUISHED BY (Printed Name) (Signature) | Date/Time | RECEIVED BY (Printed Name) (Signature) | Date/Time |

Report Date: 07/25/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11366

EVENT NAME: Mortandad/Sandia (Cr Inv) MY2017 Q4

SAMPLE ID: CAMO-17-142779

WORK ORDER:

| | AS PLANNED | AS COLLECTED | | AS PLANNED | AS COLLECTED |
|---------------------------------|---------------|--------------|----------------------|---------------|-----------------|
| Date Collected (MM/DD/YYYY): | 8/2/17 | OK | FIELD MATRIX: | WG | OK |
| TIME COLLECTED (HH:MM): | 1229 | | MEDIA: | UA | |
| PRS ID: | OK | | SAMPLE TECH CODE: | GSP | |
| LOCATION ID: | R-45 S2 | | FIELD PREP: | F | |
| LOCATION TYPE: | OK | | FIELD QC TYPE: | REG | |
| TOP DEPTH: | | | SAMPLE USAGE: | INV | ✓ |
| BOTTOM DEPTH: | ✓ | ✓ | EXCAVATED: | | YES / NO / (NA) |

| PRIORITY | ORDER | CONTAINER | # | PRESERVATIVE | COLLECTED Y/N | SPECIAL INSTRUCTIONS |
|----------|------------------------------|-----------------------|---|--------------|---------------|----------------------|
| NA | WSP-All Metals | 1 LITER POLY | 1 | HNO3 ICE | Y | NA |
| | WSP-CR52/53 | 1 LITER POLY | 1 | ICE | | |
| | WSP- GENINORG+PerChlorate | 1 LITER POLY | 1 | ICE | | |
| ✓ | WSP- NH3+NO3/NO2 | 500 ML AMBER GLASS | 1 | H2SO4 | ✓ | ✓ |

SAMPLE COMMENTS:

LOCATION COMMENTS:

FIELD PARAMETERS:

Sample Time _____ HH:MM _____ Dissolved Oxygen _____ Flow (in gpm) _____
 Oxidation-Reduction Potential _____ pH _____ Specific Conductance _____
 Temperature _____ Turbidity _____

COLLECTED BY (PRINT):

K. Tow, D. Hughes

| | | | |
|--|-----------------------------|--|-----------------------------|
| RELINQUISHED BY (Printed Name) (Signature) | Date/Time 8/2/17 1320 | RECEIVED BY (Printed Name) (Signature) | Date/Time 8/2/17 1320 |
| RELINQUISHED BY (Printed Name) (Signature) | Date/Time | RECEIVED BY (Printed Name) (Signature) | Date/Time |

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11366

EVENT NAME: Mortandad/Sandia (Cr Inv) MY2017 Q4

SAMPLE ID: CAMO-17-142780

WORK ORDER:

| | AS PLANNED | AS COLLECTED | | AS PLANNED | AS COLLECTED |
|---------------------------------|---------------|--------------|----------------------|---------------|-----------------|
| Date Collected (MM/DD/YYYY): | 7/28/17 | OK | FIELD MATRIX: | WG | OK |
| TIME COLLECTED (HH:MM): | 1403 | | MEDIA: | UA | |
| PRS ID: | NA | | SAMPLE TECH CODE: | GSP | |
| LOCATION ID: | R-50 S1 | | FIELD PREP: | F | |
| LOCATION TYPE: | NA | | FIELD QC TYPE: | REG | |
| TOP DEPTH: | ↓ | | SAMPLE USAGE: | INV | ↓ |
| BOTTOM DEPTH: | ↓ | ↓ | EXCAVATED: | | YES / NO / (NA) |

| PRIORITY | ORDER | CONTAINER | # | PRESERVATIVE | COLLECTED Y/N | SPECIAL INSTRUCTIONS |
|----------|----------------------------------|-----------------------|---|--------------|---------------|----------------------|
| NA | WSP-All Metals | 1 LITER POLY | 1 | HNO3 ICE | Y | NA |
| ↓ | WSP-CR52/53 | 1 LITER POLY | 1 | ICE | ↓ | ↓ |
| | WSP- GENINORG+PerChlorat e | 1 LITER POLY | 1 | ICE | ↓ | ↓ |
| ↓ | WSP- NH3+NO3/NO2 | 500 ML AMBER GLASS | 1 | H2SO4 | ↓ | ↓ |

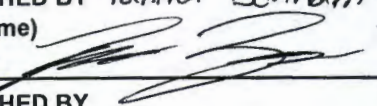
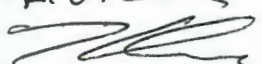
SAMPLE COMMENTS: None

LOCATION COMMENTS: None

FIELD PARAMETERS:

Sample Time _____ HH:MM _____ Dissolved Oxygen _____ KT 7/28/17 _____ Flow (in gpm) _____
 Oxidation-Reduction Potential _____ pH _____ Specific Conductance _____
 Temperature _____ Turbidity _____

COLLECTED BY (PRINT): D. Jaramillo & T. Bonham

| | | | | | |
|--|--|------------------------------|--|--|------------------------------|
| RELINQUISHED BY (Printed Name) (Signature) | Tanner Bonham  | Date/Time 7/28/17 1443 | RECEIVED BY (Printed Name) (Signature) | K. G. Greer  | Date/Time 7/28/17 2:43 |
| RELINQUISHED BY (Printed Name) (Signature) | | Date/Time | RECEIVED BY (Printed Name) (Signature) | | Date/Time |

Report Date: 07/25/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11366

EVENT NAME: Mortandad/Sandia (Cr Inv) MY2017 Q4

SAMPLE ID: CAMO-17-142781

WORK ORDER:

| | AS PLANNED | AS COLLECTED | | AS PLANNED | AS COLLECTED |
|---------------------------------|---------------|--------------|----------------------|---------------|---------------|
| Date Collected (MM/DD/YYYY): | 8/2/17 | OK | FIELD MATRIX: | WG | OK |
| TIME COLLECTED (HH:MM): | 1017 | 1 | MEDIA: | UA | 1 |
| PRS ID: | OK | | SAMPLE TECH CODE: | GSP | |
| LOCATION ID: | R-45 S1 | | FIELD PREP: | F | |
| LOCATION TYPE: | OK | | FIELD QC TYPE: | FD | |
| TOP DEPTH: | ↓ | | SAMPLE USAGE: | INV | ✓ |
| BOTTOM DEPTH: | ↓ | ↓ | EXCAVATED: | | YES / NO / NA |

| PRIORITY | ORDER | CONTAINER | # | PRESERVATIVE | COLLECTED Y/N | SPECIAL INSTRUCTIONS |
|----------|----------------------------------|-----------------------|---|--------------|---------------|----------------------|
| NA | WSP-All Metals | 1 LITER POLY | 1 | HNO3 ICE | Y | NA |
| ↓ | WSP-CR52/53 | 1 LITER POLY | 1 | ICE | ↓ | ↓ |
| ↓ | WSP- GENINORG+PerChlorat e | 1 LITER POLY | 1 | ICE | ↓ | ↓ |
| ↓ | WSP- NH3+NO3/NO2 | 500 ML AMBER GLASS | 1 | H2SO4 | ↓ | ↓ |

SAMPLE COMMENTS:

LOCATION COMMENTS:

FIELD PARAMETERS:

Sample Time _____ HH:MM Dissolved Oxygen _____ Flow (in gpm) _____
Oxidation-Reduction _____ pH _____ Specific _____
Potential _____ Conductance _____
Temperature _____ Turbidity _____

COLLECTED BY (PRINT): K. T. O'Leary, D. Hughes

| | | | |
|--|-----------------------------|--|-----------------------------|
| RELINQUISHED BY (Printed Name) (Signature) | Date/Time 8/2/17 1320 | RECEIVED BY (Printed Name) (Signature) | Date/Time 8/2/17 1320 |
| RELINQUISHED BY (Printed Name) (Signature) | Date/Time | RECEIVED BY (Printed Name) (Signature) | Date/Time |

Report Date: 07/25/2017

[illegible]

[illegible]

UNIVERSITY OF ILLINOIS
AT URBANA - CHAMPAIGN

Department of Geology
School of Earth, Society, & Environment
3081 Natural History Building
1301 W. Springfield Avenue
Urbana, IL 61801



24 January, 2018

Ms. Susan Leese
ARS International, LLC
2609 North River Road
Port Allen, LA 70767-3469
225.381.2991 sleese@amrad.com

Subject: Cr stable isotope results

Dear Susan:

Please find below tabulated results from Cr stable isotope analysis of water samples from Los Alamos National Laboratory (LANL). The samples were analyzed on January 17th and 18th, 2018 and results were previously reported via EDD, on January 23rd.

| COC # | Sample ID | $\delta^{53}\text{Cr}^1$ (per mil) | Duplicate $\delta^{53}\text{Cr}^1$ (per mil) |
|-----------|-----------------|---------------------------------------|---|
| 2017-2464 | CASA-17-142775 | 1.94 | |
| 2017-2464 | CASA-17-142776 | 0.92 | |
| 2017-2464 | CAMO-17-142777 | 1.16 | 1.21 |
| 2017-2464 | CAMO-17-142778 | 1.12 | |
| 2017-2464 | CAMO-17-142779 | 1.37 | |
| 2017-2464 | CAMO-17-142780 | 0.93 | |
| 2017-2464 | CAMO-17-142781 | 1.03 | |
| 2017-2465 | CrIN6-17-142163 | 1.31 | |
| 2017-2466 | CAMO-17-132200 | 1.24 | |
| 2017-2466 | CAMO-17-132211 | 1.04 | 1.05 |
| 2017-2466 | CAMO-17-132212 | 1.25 | |
| 2017-2466 | CAMO-17-132214 | 0.89 | |
| 2017-2466 | CAMO-17-132218 | Reprep ³ | |
| 2017-2466 | CAMO-17-132308 | 1.25 | |
| 2017-2466 | CASA-17-132319 | 1.28 | |
| 2017-2466 | CASA-17-132323 | 0.85 | |
| 2017-2466 | CASA-17-132325 | Reprep ³ | |
| 2017-2466 | CASA-17-132327 | 1.15 | |
| 2017-2466 | CASA-17-132338 | 1.96 | |
| 2017-2466 | CAMO-17-132523 | 0.85 | |
| 2017-2466 | CAMO-17-132524 | 1.8 | |

¹Parts per thousand deviation of the measured $^{53}\text{Cr}/^{52}\text{Cr}$ ratio from that of the NIST SRM-979 standard.

²Not analyzed; insufficient Cr(VI) was present in the sample to allow accurate isotope ratio analysis.

³Reanalysis in progress; sample must be prepared again.

The analytical methods used for these samples are identical to those used for LANL water analyses for the past several years, and are described in the article: Reinhard, C.T., et al., 2014. The isotopic composition of authigenic chromium in anoxic marine sediments: A case study from the Cariaco Basin. *Earth and Planetary Science Letters* vol. **407**, pp. 9-18. Nominal precision is ± 0.2 per mil, though actual reproducibility is generally better than that.

A raw data table is attached. Analyses identified as "979" are NIST SRM-979. Analyses identified as "3112a" are NIST SRM-3112a, which has a published value of -0.07 per mil. The SRM-3112a standard solutions were processed through the sample preparation procedure with the reported samples. Sample results are normalized to the mean value of SRM-979 for the analytical session.

Chain of Custody (COC) forms are also attached. Some samples, as indicated above, were not analyzed. If indicated, insufficient Cr was recovered by our sample preparation method to allow isotope ratio analysis. In some cases, sufficient Cr is present but samples must be prepared a second time. These will be analyzed as soon as possible.

Sincerely,



Thomas M. Johnson
Professor of Geology

| Sample | 52 Int (V) | | | Raw 50/52 | | | Raw 53/52 | | | Raw 54/52 | | |
|-------------|------------|------------|----------|------------|----------|------------|-----------|------------|--|-----------|--|--|
| '979_125p | 3.97E+00 | { 1.92E-03 | 6.14E-01 | { 8.20E-06 | 1.17E-01 | { 1.20E-06 | 5.18E-01 | { 5.31E-06 | | | | |
| '979_125p | 3.95E+00 | { 2.08E-03 | 6.14E-01 | { 8.74E-06 | 1.17E-01 | { 1.75E-06 | 5.18E-01 | { 6.70E-06 | | | | |
| '3112a_12 | 4.49E+00 | { 2.83E-03 | 6.61E-01 | { 8.24E-06 | 1.17E-01 | { 1.27E-06 | 5.56E-01 | { 5.07E-06 | | | | |
| '3112a_12 | 4.39E+00 | { 2.38E-03 | 6.61E-01 | { 2.19E-05 | 1.17E-01 | { 1.23E-06 | 5.56E-01 | { 8.34E-06 | | | | |
| '979_75pp | 1.83E+00 | { 9.63E-04 | 6.14E-01 | { 8.46E-06 | 1.17E-01 | { 2.40E-06 | 5.18E-01 | { 5.72E-06 | | | | |
| '979_125p | 3.55E+00 | { 4.59E-03 | 6.14E-01 | { 1.23E-05 | 1.17E-01 | { 2.11E-06 | 5.18E-01 | { 7.25E-06 | | | | |
| '979_125p | 3.64E+00 | { 3.62E-03 | 6.14E-01 | { 1.54E-05 | 1.17E-01 | { 2.13E-06 | 5.18E-01 | { 9.72E-06 | | | | |
| '979_125p | 3.55E+00 | { 2.12E-03 | 6.14E-01 | { 6.57E-06 | 1.17E-01 | { 1.93E-06 | 5.18E-01 | { 5.90E-06 | | | | |
| '979_125p | 3.55E+00 | { 3.68E-03 | 6.14E-01 | { 9.23E-06 | 1.17E-01 | { 2.05E-06 | 5.18E-01 | { 4.68E-06 | | | | |
| 'Proc_3112 | 2.83E+00 | { 6.43E-03 | 5.94E-01 | { 1.12E-05 | 1.17E-01 | { 2.51E-06 | 5.02E-01 | { 5.91E-06 | | | | |
| 'Proc_3112 | 2.30E+00 | { 2.78E-03 | 5.98E-01 | { 1.15E-05 | 1.17E-01 | { 2.18E-06 | 5.05E-01 | { 6.94E-06 | | | | |
| '979_Unde | 4.08E+00 | { 8.74E-03 | 2.65E-01 | { 3.27E-06 | 1.17E-01 | { 1.90E-06 | 2.16E-01 | { 4.54E-06 | | | | |
| '979_125p | 3.04E+00 | { 2.73E-03 | 6.14E-01 | { 8.23E-06 | 1.17E-01 | { 1.98E-06 | 5.18E-01 | { 6.38E-06 | | | | |
| 132214 | 5.91E+00 | 6.00E-03 | 6.22E-01 | 1.08E-05 | 1.17E-01 | 1.93E-06 | 5.24E-01 | 4.87E-06 | | | | |
| | | | | | | | | | | | | |
| '979_125p | 3.57E+00 | { 1.91E-03 | 6.11E-01 | { 6.56E-06 | 1.18E-01 | { 2.05E-06 | 5.27E-01 | { 6.08E-06 | | | | |
| '979_125p | 3.55E+00 | { 1.51E-03 | 6.11E-01 | { 6.38E-06 | 1.18E-01 | { 1.76E-06 | 5.27E-01 | { 9.00E-06 | | | | |
| '979_125p | 3.53E+00 | { 1.39E-03 | 6.11E-01 | { 4.69E-06 | 1.18E-01 | { 2.04E-06 | 5.27E-01 | { 1.38E-05 | | | | |
| '979_125p | 3.50E+00 | { 1.86E-03 | 6.11E-01 | { 4.25E-06 | 1.18E-01 | { 1.46E-06 | 5.27E-01 | { 4.24E-06 | | | | |
| 'Proc_3112 | 2.89E+00 | { 1.59E-03 | 6.58E-01 | { 5.53E-06 | 1.18E-01 | { 2.38E-06 | 5.59E-01 | { 4.91E-06 | | | | |
| '979_Unde | 3.74E+00 | { 1.57E-03 | 2.64E-01 | { 6.65E-06 | 1.17E-01 | { 1.66E-06 | 2.18E-01 | { 1.00E-05 | | | | |
| '979_125p | 3.58E+00 | { 1.73E-03 | 6.10E-01 | { 1.18E-05 | 1.18E-01 | { 1.95E-06 | 5.27E-01 | { 8.38E-06 | | | | |
| '132524' ru | 3.32E+00 | { 1.69E-03 | 5.84E-01 | { 8.90E-05 | 1.18E-01 | { 2.07E-06 | 4.98E-01 | { 6.97E-06 | | | | |
| '142780' ru | 3.55E+00 | { 1.44E-03 | 6.01E-01 | { 2.72E-05 | 1.18E-01 | { 2.18E-06 | 5.11E-01 | { 8.58E-06 | | | | |
| '132323' ru | 3.38E+00 | { 1.64E-03 | 6.07E-01 | { 1.36E-05 | 1.18E-01 | { 2.06E-06 | 5.15E-01 | { 5.28E-06 | | | | |
| '132211' ru | 2.45E+00 | { 1.09E-03 | 6.04E-01 | { 7.16E-06 | 1.18E-01 | { 2.58E-06 | 5.15E-01 | { 4.78E-06 | | | | |
| '979_125p | 3.74E+00 | { 2.88E-03 | 6.11E-01 | { 1.31E-05 | 1.18E-01 | { 2.20E-06 | 5.28E-01 | { 6.16E-06 | | | | |
| '142781' ru | 2.08E+00 | { 1.22E-03 | 6.13E-01 | { 9.65E-06 | 1.18E-01 | { 2.63E-06 | 5.22E-01 | { 7.33E-06 | | | | |
| '142778' ru | 2.67E+00 | { 1.14E-03 | 5.83E-01 | { 8.60E-06 | 1.18E-01 | { 3.01E-06 | 4.97E-01 | { 9.20E-06 | | | | |
| '142777' ru | 3.43E+00 | { 1.97E-03 | 6.21E-01 | { 6.71E-06 | 1.18E-01 | { 2.13E-06 | 5.51E-01 | { 5.56E-06 | | | | |
| '142776' ru | 3.52E+00 | { 2.55E-03 | 5.96E-01 | { 7.35E-06 | 1.18E-01 | { 1.97E-06 | 5.06E-01 | { 4.15E-06 | | | | |
| '132308' ru | 4.39E+00 | { 1.71E-03 | 5.40E-01 | { 1.06E-05 | 1.18E-01 | { 2.23E-06 | 4.58E-01 | { 7.48E-06 | | | | |
| '979_125p | 3.93E+00 | { 3.17E-03 | 6.11E-01 | { 7.84E-06 | 1.18E-01 | { 2.15E-06 | 5.31E-01 | { 4.95E-06 | | | | |
| '132200' ru | 3.67E+00 | { 1.92E-03 | 6.31E-01 | { 9.80E-06 | 1.18E-01 | { 2.67E-06 | 5.36E-01 | { 8.58E-06 | | | | |
| '142779' ru | 2.54E+00 | { 1.52E-03 | 5.76E-01 | { 9.66E-06 | 1.18E-01 | { 2.72E-06 | 4.87E-01 | { 8.99E-06 | | | | |
| '132327' ru | 3.20E+00 | { 1.52E-03 | 6.61E-01 | { 8.41E-06 | 1.18E-01 | { 2.60E-06 | 5.68E-01 | { 5.61E-06 | | | | |
| '142163' ru | 4.45E+00 | { 7.87E-02 | 6.38E-01 | { 2.03E-04 | 1.17E-01 | { 1.82E-05 | 5.30E-01 | { 1.65E-04 | | | | |
| '132212' ru | 1.78E+00 | { 6.73E-03 | 5.60E-01 | { 5.75E-05 | 1.17E-01 | { 5.65E-06 | 4.66E-01 | { 3.79E-05 | | | | |
| '979_125p | 2.94E+00 | { 3.09E-03 | 6.15E-01 | { 4.37E-05 | 1.17E-01 | { 3.80E-06 | 5.18E-01 | { 4.99E-05 | | | | |
| '132319' ru | 1.96E+00 | { 2.02E-03 | 8.05E-01 | { 1.77E-05 | 1.18E-01 | { 2.86E-06 | 6.81E-01 | { 1.58E-05 | | | | |
| '142775' ru | 1.67E+00 | { 8.43E-04 | 7.05E-01 | { 1.48E-05 | 1.18E-01 | { 3.65E-06 | 6.00E-01 | { 1.10E-05 | | | | |
| '132338' ru | 1.77E+00 | { 1.13E-03 | 6.58E-01 | { 1.05E-05 | 1.18E-01 | { 3.08E-06 | 5.59E-01 | { 6.91E-06 | | | | |
| '132523' ru | 6.62E-01 | { 4.05E-04 | 5.27E-01 | { 1.18E-05 | 1.18E-01 | { 8.63E-06 | 4.56E-01 | { 1.31E-05 | | | | |
| '132211-2' | 2.43E+00 | { 1.06E-03 | 6.09E-01 | { 9.18E-06 | 1.18E-01 | { 3.43E-06 | 5.15E-01 | { 5.77E-06 | | | | |
| '979_125p | 3.04E+00 | { 1.45E-03 | 6.12E-01 | { 2.22E-05 | 1.18E-01 | { 2.27E-06 | 5.21E-01 | { 2.20E-05 | | | | |

| | | | | | | | | |
|------------|----------|------------|----------|------------|----------|------------|----------|------------|
| '142777-2' | 6.12E+00 | { 4.73E-03 | 6.36E-01 | { 2.97E-05 | 1.18E-01 | { 3.18E-06 | 5.38E-01 | { 2.56E-05 |
| Proc_3112: | 2.64E+00 | 1.57E-03 | 5.93E-01 | 1.57E-05 | 1.17E-01 | 3.60E-06 | 5.03E-01 | 1.44E-05 |

| Raw 56/54 | | Raw 51/52 | | Raw 49/50 | | Conv Err | | FeCorrEst | |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|--|
| 6.07E-03 | { 0.00E+00 | 3.47E-05 | { 6.33E-07 | 2.32E-05 | { 1.08E-13 | -2.84E-05 | { 3.73E-06 | 1.22E-01 | |
| 6.30E-03 | { 6.28E-12 | 3.90E-05 | { 4.99E-07 | 1.21E-05 | { 7.20E-14 | -3.26E-05 | { 5.26E-06 | 1.27E-01 | |
| 5.71E-03 | { 0.00E+00 | 1.78E-03 | { 6.85E-07 | 1.38E-04 | { 0.00E+00 | -4.43E-05 | { 3.37E-06 | 1.15E-01 | |
| 8.72E-03 | { 0.00E+00 | 1.79E-03 | { 1.51E-06 | 1.32E-04 | { 0.00E+00 | -3.09E-05 | { 3.41E-06 | 1.75E-01 | |
| 1.54E-02 | { 8.33E-11 | 7.27E-05 | { 1.33E-06 | 3.49E-05 | { 0.00E+00 | -6.43E-06 | { 6.61E-06 | 3.10E-01 | |
| 1.52E-02 | { 0.00E+00 | 4.55E-05 | { 1.04E-06 | 2.38E-05 | { 1.71E-13 | 7.19E-06 | { 6.71E-06 | 3.06E-01 | |
| 6.10E-03 | { 0.00E+00 | 3.58E-05 | { 6.26E-07 | 1.14E-05 | { 0.00E+00 | -3.67E-05 | { 6.32E-06 | 1.22E-01 | |
| 7.91E-03 | { 1.27E-11 | 3.60E-05 | { 5.04E-07 | 1.90E-05 | { 1.42E-13 | -2.16E-05 | { 6.12E-06 | 1.59E-01 | |
| 6.70E-03 | { 2.31E-11 | 4.37E-05 | { 5.08E-07 | 1.00E-05 | { 4.88E-14 | -2.12E-05 | { 6.66E-06 | 1.34E-01 | |
| 5.83E-02 | { 0.00E+00 | 9.98E-05 | { 7.18E-07 | 5.90E-05 | { 0.00E+00 | -2.72E-05 | { 8.62E-06 | 1.17E+00 | |
| 4.11E-02 | { 2.69E-10 | 1.21E-04 | { 1.66E-06 | 1.10E-04 | { 0.00E+00 | -1.29E-05 | { 7.92E-06 | 8.24E-01 | |
| 1.21E-02 | { 4.34E-11 | 2.99E-05 | { 4.40E-07 | 3.38E-05 | { 2.56E-13 | -4.08E-04 | { 7.44E-05 | 2.42E-01 | |
| 2.91E-02 | { 0.00E+00 | 4.93E-05 | { 5.37E-07 | 1.88E-05 | { 1.24E-13 | -1.26E-05 | { 6.16E-06 | 5.84E-01 | |
| 2.45E-02 | 1.86E-10 | 7.10E-04 | 5.82E-07 | 5.74E-05 | 0.00E+00 | 2.60E-04 | 5.64E-06 | 4.93E-01 | |
| | | | | | | | | | |
| 2.29E-01 | { 1.27E-09 | 1.28E-04 | { 8.76E-07 | 5.43E-05 | { 2.71E-13 | 3.31E-05 | { 7.35E-06 | 4.58E+00 | |
| 2.26E-01 | { 8.92E-10 | 1.46E-04 | { 5.87E-07 | 4.93E-05 | { 1.61E-13 | 1.63E-05 | { 6.69E-06 | 4.51E+00 | |
| 2.25E-01 | { 0.00E+00 | 1.53E-04 | { 5.28E-07 | 4.99E-05 | { 1.82E-13 | -1.42E-05 | { 7.37E-06 | 4.49E+00 | |
| 2.30E-01 | { 1.47E-09 | 1.59E-04 | { 8.12E-07 | 5.01E-05 | { 0.00E+00 | 1.55E-05 | { 5.24E-06 | 4.60E+00 | |
| 6.81E-03 | { 0.00E+00 | 2.03E-03 | { 7.57E-07 | 1.63E-04 | { 8.32E-13 | -5.31E-05 | { 5.77E-06 | 1.36E-01 | |
| 1.91E-02 | { 0.00E+00 | 8.84E-05 | { 8.45E-07 | 3.02E-05 | { 1.07E-13 | -5.01E-04 | { 6.70E-05 | 3.82E-01 | |
| 2.50E-01 | { 7.17E-10 | 3.57E-04 | { 4.71E-06 | 5.68E-05 | { 2.65E-13 | -2.04E-06 | { 7.62E-06 | 5.00E+00 | |
| 1.45E-01 | { 3.69E-10 | 1.21E-03 | { 3.45E-05 | 8.82E-05 | { 0.00E+00 | 7.41E-04 | { 2.06E-05 | 2.92E+00 | |
| 4.02E-02 | { 0.00E+00 | 1.39E-03 | { 5.88E-06 | 5.40E-05 | { 1.82E-13 | 2.79E-04 | { 7.30E-06 | 8.05E-01 | |
| 3.35E-02 | { 0.00E+00 | 7.09E-04 | { 2.39E-06 | 4.54E-05 | { 0.00E+00 | 2.43E-04 | { 6.65E-06 | 6.71E-01 | |
| 5.88E-02 | { 0.00E+00 | 2.79E-03 | { 1.37E-06 | 7.85E-05 | { 4.34E-13 | 3.24E-04 | { 8.33E-06 | 1.18E+00 | |
| 2.90E-01 | { 0.00E+00 | 2.00E-04 | { 4.56E-06 | 5.80E-05 | { 0.00E+00 | 4.10E-05 | { 8.23E-06 | 5.79E+00 | |
| 5.53E-02 | { 0.00E+00 | 2.99E-03 | { 2.10E-06 | 8.04E-05 | { 8.91E-14 | 3.03E-04 | { 7.91E-06 | 1.11E+00 | |
| 1.32E-01 | { 0.00E+00 | 1.81E-03 | { 2.08E-06 | 2.49E-04 | { 0.00E+00 | 4.59E-04 | { 1.09E-05 | 2.64E+00 | |
| 7.57E-01 | { 0.00E+00 | 7.43E-04 | { 6.32E-07 | 6.12E-05 | { 3.56E-13 | 1.08E-03 | { 9.97E-06 | 1.52E+01 | |
| 2.95E-02 | { 0.00E+00 | 1.05E-03 | { 7.20E-07 | 6.78E-05 | { 0.00E+00 | 2.76E-04 | { 6.96E-06 | 5.91E-01 | |
| 9.92E-02 | { 4.44E-10 | 7.04E-04 | { 7.86E-07 | 4.99E-04 | { 1.49E-12 | 5.98E-04 | { 1.00E-05 | 1.99E+00 | |
| 3.72E-01 | { 0.00E+00 | 1.59E-04 | { 6.12E-07 | 6.01E-05 | { 1.40E-13 | 1.42E-04 | { 7.09E-06 | 7.43E+00 | |
| 3.45E-02 | { 2.47E-10 | 6.97E-04 | { 5.27E-07 | 5.17E-05 | { 0.00E+00 | 3.33E-04 | { 6.61E-06 | 6.91E-01 | |
| 2.59E-02 | { 0.00E+00 | 2.43E-03 | { 1.03E-06 | 1.03E-04 | { 6.25E-13 | 4.76E-04 | { 9.37E-06 | 5.19E-01 | |
| 2.31E-01 | { 1.49E-09 | 2.92E-04 | { 8.16E-07 | 2.41E-04 | { 0.00E+00 | 4.16E-04 | { 7.09E-06 | 4.63E+00 | |
| 8.06E-02 | { 3.09E-10 | 4.61E-04 | { 3.38E-07 | 1.57E-04 | { 0.00E+00 | 4.56E-04 | { 7.82E-06 | 1.63E+00 | |
| 2.70E-02 | { 0.00E+00 | 4.58E-03 | { 2.02E-06 | 7.13E-05 | { 3.84E-13 | 4.95E-04 | { 1.39E-05 | 5.44E-01 | |
| 4.16E-02 | { 0.00E+00 | 6.84E-05 | { 9.21E-07 | 2.00E-05 | { 0.00E+00 | -7.89E-06 | { 8.76E-06 | 8.36E-01 | |
| 2.11E-02 | { 0.00E+00 | 3.44E-03 | { 1.42E-06 | 1.10E-04 | { 6.54E-13 | 1.70E-04 | { 3.93E-06 | 4.25E-01 | |
| 1.76E-02 | { 0.00E+00 | 1.30E-02 | { 1.82E-06 | 1.14E-04 | { 1.84E-13 | 3.75E-04 | { 6.55E-06 | 3.53E-01 | |
| 1.70E-02 | { 1.28E-10 | 1.08E-02 | { 1.77E-06 | 8.78E-05 | { 0.00E+00 | 4.64E-04 | { 7.37E-06 | 3.40E-01 | |
| 6.21E-02 | { 0.00E+00 | 3.05E-02 | { 6.61E-06 | 2.40E-04 | { 0.00E+00 | 3.20E-04 | { 3.48E-05 | 1.23E+00 | |
| 4.15E-02 | { 8.37E-11 | 1.52E-02 | { 1.94E-06 | 7.60E-05 | { 0.00E+00 | 3.15E-04 | { 1.04E-05 | 8.32E-01 | |
| 5.24E-02 | { 0.00E+00 | 6.13E-05 | { 7.34E-07 | 1.65E-05 | { 8.39E-14 | -2.57E-06 | { 6.35E-06 | 1.05E+00 | |

| | | | | | | | | | | | | |
|----------|---|----------|----------|---|----------|----------|---|----------|-----------|---|----------|----------|
| 2.98E-02 | { | 6.76E-11 | 5.22E-04 | { | 3.24E-07 | 5.01E-05 | { | 2.23E-13 | 3.18E-04 | { | 4.94E-06 | 5.98E-01 |
| 5.31E-02 | | 0.00E+00 | 1.00E-04 | | 8.53E-07 | 6.45E-05 | | 0.00E+00 | -4.17E-05 | | 9.37E-06 | 1.06E+00 |

| VCorrEst | | | TiCorrEst | | Mass Bias | | 54Spk/52Nat | |
|------------|----------|------------|-----------|------------|-----------|------------|-------------|------------|
| { 9.17E-07 | 3.23E-05 | { 5.89E-07 | 5.73E-03 | { 2.39E-08 | 2.98E+01 | { 4.08E-03 | 4.61E-01 | { 4.91E-06 |
| { 1.19E-06 | 3.62E-05 | { 4.64E-07 | 3.00E-03 | { 1.56E-08 | 2.99E+01 | { 5.08E-03 | 4.61E-01 | { 5.03E-06 |
| { 9.22E-07 | 1.54E-03 | { 5.93E-07 | 3.40E-02 | { 1.52E-07 | 2.92E+01 | { 4.34E-03 | 4.98E-01 | { 2.95E-06 |
| { 1.87E-06 | 1.55E-03 | { 1.31E-06 | 3.26E-02 | { 1.92E-07 | 2.91E+01 | { 5.75E-03 | 4.98E-01 | { 1.20E-05 |
| { 3.08E-06 | 6.77E-05 | { 1.24E-06 | 8.62E-03 | { 4.75E-08 | 3.00E+01 | { 5.37E-03 | 4.61E-01 | { 3.67E-06 |
| { 4.46E-06 | 4.23E-05 | { 9.69E-07 | 5.87E-03 | { 4.75E-08 | 2.98E+01 | { 7.88E-03 | 4.61E-01 | { 4.60E-06 |
| { 2.48E-06 | 3.33E-05 | { 5.82E-07 | 2.82E-03 | { 3.17E-08 | 3.00E+01 | { 1.10E-02 | 4.61E-01 | { 4.53E-06 |
| { 1.48E-06 | 3.35E-05 | { 4.68E-07 | 4.69E-03 | { 2.43E-08 | 3.01E+01 | { 5.05E-03 | 4.61E-01 | { 3.10E-06 |
| { 1.53E-06 | 4.06E-05 | { 4.72E-07 | 2.48E-03 | { 1.57E-08 | 3.01E+01 | { 6.16E-03 | 4.61E-01 | { 4.04E-06 |
| { 1.75E-05 | 9.59E-05 | { 6.90E-07 | 1.46E-02 | { 1.21E-07 | 3.01E+01 | { 8.11E-03 | 4.44E-01 | { 4.41E-06 |
| { 1.16E-05 | 1.16E-04 | { 1.59E-06 | 2.71E-02 | { 2.11E-07 | 3.01E+01 | { 7.60E-03 | 4.47E-01 | { 5.00E-06 |
| { 3.39E-06 | 6.45E-05 | { 9.49E-07 | 8.37E-03 | { 6.50E-08 | 3.01E+01 | { 7.63E-03 | 1.76E-01 | { 2.31E-06 |
| { 6.06E-06 | 4.58E-05 | { 5.00E-07 | 4.64E-03 | { 2.67E-08 | 3.00E+01 | { 5.62E-03 | 4.61E-01 | { 4.27E-06 |
| 6.33E-06 | 6.53E-04 | 5.35E-07 | 1.42E-02 | 1.01E-07 | 2.95E+01 | 6.95E-03 | 4.67E-01 | 4.01E-06 |
| | | | | | | | | |
| { 3.81E-05 | 1.19E-04 | { 8.14E-07 | 1.35E-02 | { 6.21E-08 | 3.24E+01 | { 4.52E-03 | 4.60E-01 | { 4.29E-06 |
| { 4.36E-05 | 1.36E-04 | { 5.46E-07 | 1.22E-02 | { 6.56E-08 | 3.25E+01 | { 5.24E-03 | 4.60E-01 | { 5.00E-06 |
| { 6.24E-05 | 1.42E-04 | { 4.90E-07 | 1.24E-02 | { 9.54E-08 | 3.26E+01 | { 7.54E-03 | 4.60E-01 | { 6.54E-06 |
| { 2.82E-05 | 1.48E-04 | { 7.54E-07 | 1.24E-02 | { 4.23E-08 | 3.25E+01 | { 3.33E-03 | 4.60E-01 | { 2.80E-06 |
| { 8.30E-07 | 1.76E-03 | { 6.56E-07 | 4.05E-02 | { 1.37E-07 | 3.15E+01 | { 3.30E-03 | 4.98E-01 | { 4.03E-06 |
| { 5.26E-06 | 1.90E-04 | { 1.82E-06 | 7.48E-03 | { 5.72E-08 | 3.23E+01 | { 7.51E-03 | 1.76E-01 | { 7.40E-06 |
| { 7.46E-05 | 3.32E-04 | { 4.37E-06 | 1.41E-02 | { 1.17E-07 | 3.25E+01 | { 8.09E-03 | 4.60E-01 | { 4.27E-06 |
| { 2.18E-04 | 1.18E-03 | { 3.37E-05 | 2.18E-02 | { 9.06E-07 | 3.07E+01 | { 4.05E-02 | 4.37E-01 | { 3.81E-05 |
| { 2.47E-05 | 1.32E-03 | { 5.56E-06 | 1.34E-02 | { 2.28E-07 | 3.17E+01 | { 1.66E-02 | 4.52E-01 | { 7.24E-06 |
| { 8.53E-06 | 6.65E-04 | { 2.25E-06 | 1.12E-02 | { 7.92E-08 | 3.12E+01 | { 6.88E-03 | 4.56E-01 | { 6.52E-06 |
| { 8.97E-06 | 2.62E-03 | { 1.29E-06 | 1.94E-02 | { 8.23E-08 | 3.17E+01 | { 4.14E-03 | 4.54E-01 | { 3.97E-06 |
| { 4.83E-05 | 1.86E-04 | { 4.23E-06 | 1.44E-02 | { 6.66E-08 | 3.23E+01 | { 4.52E-03 | 4.60E-01 | { 7.28E-06 |
| { 1.31E-05 | 2.77E-03 | { 1.94E-06 | 1.99E-02 | { 1.30E-07 | 3.18E+01 | { 6.39E-03 | 4.62E-01 | { 4.38E-06 |
| { 3.91E-05 | 1.77E-03 | { 2.05E-06 | 6.17E-02 | { 5.06E-07 | 3.10E+01 | { 8.00E-03 | 4.36E-01 | { 3.78E-06 |
| { 1.53E-04 | 6.81E-04 | { 5.78E-07 | 1.51E-02 | { 8.50E-08 | 3.12E+01 | { 5.48E-03 | 4.67E-01 | { 2.63E-06 |
| { 5.51E-06 | 1.00E-03 | { 6.87E-07 | 1.68E-02 | { 8.70E-08 | 3.13E+01 | { 5.06E-03 | 4.47E-01 | { 3.30E-06 |
| { 3.21E-05 | 7.43E-04 | { 8.29E-07 | 1.23E-01 | { 1.11E-06 | 3.10E+01 | { 8.76E-03 | 4.01E-01 | { 2.72E-06 |
| { 6.27E-05 | 1.48E-04 | { 5.69E-07 | 1.49E-02 | { 6.97E-08 | 3.19E+01 | { 4.57E-03 | 4.60E-01 | { 3.70E-06 |
| { 9.40E-06 | 6.29E-04 | { 4.76E-07 | 1.28E-02 | { 9.65E-08 | 3.13E+01 | { 7.36E-03 | 4.76E-01 | { 3.62E-06 |
| { 7.94E-06 | 2.40E-03 | { 1.03E-06 | 2.55E-02 | { 2.16E-07 | 3.09E+01 | { 8.28E-03 | 4.30E-01 | { 3.76E-06 |
| { 3.67E-05 | 2.51E-04 | { 7.04E-07 | 5.96E-02 | { 2.62E-07 | 3.09E+01 | { 4.29E-03 | 5.00E-01 | { 4.71E-06 |
| { 4.87E-04 | 4.20E-04 | { 3.36E-07 | 3.85E-02 | { 6.37E-06 | 2.48E+01 | { 1.60E-01 | 4.75E-01 | { 5.60E-06 |
| { 4.83E-05 | 4.72E-03 | { 2.23E-06 | 1.76E-02 | { 8.65E-07 | 2.70E+01 | { 4.78E-02 | 4.14E-01 | { 6.84E-06 |
| { 4.09E-05 | 6.37E-05 | { 8.60E-07 | 4.95E-03 | { 1.34E-07 | 2.95E+01 | { 2.64E-02 | 4.60E-01 | { 2.96E-05 |
| { 7.43E-06 | 2.45E-03 | { 1.02E-06 | 2.71E-02 | { 2.64E-07 | 2.94E+01 | { 9.46E-03 | 6.16E-01 | { 7.29E-06 |
| { 6.13E-06 | 1.05E-02 | { 1.52E-06 | 2.81E-02 | { 2.71E-07 | 3.13E+01 | { 9.41E-03 | 5.37E-01 | { 4.67E-06 |
| { 4.37E-06 | 9.36E-03 | { 1.70E-06 | 2.17E-02 | { 1.55E-07 | 3.14E+01 | { 6.98E-03 | 4.98E-01 | { 4.13E-06 |
| { 2.32E-05 | 3.25E-02 | { 7.21E-06 | 5.98E-02 | { 6.26E-07 | 3.67E+01 | { 1.03E-02 | 3.95E-01 | { 8.86E-06 |
| { 7.98E-06 | 1.42E-02 | { 1.81E-06 | 1.88E-02 | { 1.00E-07 | 3.06E+01 | { 5.20E-03 | 4.57E-01 | { 4.27E-06 |
| { 1.60E-05 | 5.70E-05 | { 6.83E-07 | 4.09E-03 | { 3.46E-08 | 3.14E+01 | { 8.26E-03 | 4.61E-01 | { 1.95E-05 |

| | | | | | | | | |
|------------|----------|------------|----------|------------|----------|------------|----------|------------|
| { 2.65E-05 | 4.68E-04 | { 2.90E-07 | 1.24E-02 | { 3.05E-07 | 3.00E+01 | { 2.40E-02 | 4.79E-01 | { 3.12E-06 |
| 2.47E-05 | 9.63E-05 | 8.18E-07 | 1.60E-02 | 2.05E-07 | 3.09E+01 | 1.25E-02 | 4.45E-01 | 5.20E-06 |

Delta 53Cr

Average 97 Final d53 Replicate d

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|-------|------------|--------------|--------|-------|-----------|-------|
| -0.10 | { 1.20E-02 | '979_125pj | 17-Jan | 12:50 | -8.85E-02 | -0.02 |
| -0.12 | { 1.69E-02 | '979_125pj | 17-Jan | 12:59 | -8.85E-02 | -0.03 |
| -0.19 | { 1.34E-02 | '3112a_125pj | 17-Jan | 13:14 | -8.85E-02 | -0.10 |
| -0.15 | { 1.35E-02 | '3112a_125pj | 17-Jan | 13:24 | -8.85E-02 | -0.06 |
| -0.05 | { 2.11E-02 | '979_75ppl | 17-Jan | 13:39 | -8.85E-02 | 0.04 |
| -0.01 | { 2.15E-02 | '979_125pj | 17-Jan | 14:42 | -8.85E-02 | 0.08 |
| -0.13 | { 2.04E-02 | '979_125pj | 17-Jan | 14:51 | -8.85E-02 | -0.04 |
| -0.08 | { 1.97E-02 | '979_125pj | 17-Jan | 15:20 | -8.85E-02 | 0.00 |
| -0.08 | { 2.15E-02 | '979_125pj | 17-Jan | 15:30 | -8.85E-02 | 0.01 |
| -0.18 | { 2.41E-02 | 'Proc_3112 | 17-Jan | 15:45 | -8.85E-02 | -0.09 |
| -0.11 | { 2.28E-02 | 'Proc_3112 | 17-Jan | 16:00 | -8.85E-02 | -0.02 |
| -0.12 | { 2.05E-02 | '979_Unde | 17-Jan | 16:15 | -8.85E-02 | -0.03 |
| -0.10 | { 1.94E-02 | '979_125pj | 17-Jan | 16:30 | -8.85E-02 | -0.01 |
| 0.80 | 1.86E-02 | 132214 | 17-Jan | 16:38 | -8.85E-02 | 0.89 |
| | | | | | | |
| -0.13 | { 1.97E-02 | '979_125pj | 18-Jan | 10:07 | -1.51E-01 | 0.02 |
| -0.15 | { 1.75E-02 | '979_125pj | 18-Jan | 10:17 | -1.51E-01 | 0.00 |
| -0.23 | { 1.97E-02 | '979_125pj | 18-Jan | 10:27 | -1.51E-01 | -0.08 |
| -0.16 | { 1.40E-02 | '979_125pj | 18-Jan | 10:36 | -1.51E-01 | -0.01 |
| -0.22 | { 2.29E-02 | 'Proc_3112 | 18-Jan | 10:52 | -1.51E-01 | -0.07 |
| -0.15 | { 1.85E-02 | '979_Unde | 18-Jan | 11:07 | -1.51E-01 | 0.00 |
| -0.23 | { 1.97E-02 | '979_125pj | 18-Jan | 11:22 | -1.51E-01 | -0.08 |
| 1.65 | { 5.04E-02 | '132524' ru | 18-Jan | 11:37 | -1.51E-01 | 1.80 |
| 0.78 | { 2.16E-02 | '142780' ru | 18-Jan | 11:52 | -1.51E-01 | 0.93 |
| 0.70 | { 2.04E-02 | '132323' ru | 18-Jan | 12:07 | -1.51E-01 | 0.85 |
| 0.89 | { 2.48E-02 | '132211' ru | 18-Jan | 12:22 | -1.51E-01 | 1.04 |
| -0.19 | { 2.17E-02 | '979_125pj | 18-Jan | 12:38 | -1.51E-01 | -0.04 |
| 0.88 | { 2.47E-02 | '142781' ru | 18-Jan | 12:53 | -1.51E-01 | 1.03 |
| 0.97 | { 2.75E-02 | '142778' ru | 18-Jan | 13:08 | -1.51E-01 | 1.12 |
| 1.01 | { 1.89E-02 | '142777' ru | 18-Jan | 13:23 | -1.51E-01 | 1.16 |
| 0.77 | { 2.03E-02 | '142776' ru | 18-Jan | 13:38 | -1.51E-01 | 0.92 |
| 1.10 | { 2.01E-02 | '132308' ru | 18-Jan | 13:53 | -1.51E-01 | 1.25 |
| -0.07 | { 1.72E-02 | '979_125pj | 18-Jan | 14:08 | -1.51E-01 | 0.08 |
| 1.09 | { 2.27E-02 | '132200' ru | 18-Jan | 14:23 | -1.51E-01 | 1.24 |
| 1.22 | { 2.48E-02 | '142779' ru | 18-Jan | 14:38 | -1.51E-01 | 1.37 |
| 1.00 | { 2.35E-02 | '132327' ru | 18-Jan | 14:54 | -1.51E-01 | 1.15 |
| 1.16 | { 2.45E-02 | '142163' ru | 18-Jan | 15:09 | -1.51E-01 | 1.31 |
| 1.10 | { 3.31E-02 | '132212' ru | 18-Jan | 15:24 | -1.51E-01 | 1.25 |
| -0.11 | { 2.73E-02 | '979_125pj | 18-Jan | 15:39 | -1.51E-01 | 0.04 |
| 1.13 | { 2.76E-02 | '132319' ru | 18-Jan | 15:54 | -1.51E-01 | 1.28 |
| 1.79 | { 3.18E-02 | '142775' ru | 18-Jan | 16:09 | -1.51E-01 | 1.94 |
| 1.81 | { 2.92E-02 | '132338' ru | 18-Jan | 16:24 | -1.51E-01 | 1.96 |
| 0.70 | { 7.15E-02 | '132523' ru | 18-Jan | 16:39 | -1.51E-01 | 0.85 |
| 0.90 | { 3.20E-02 | '132211-2' | 18-Jan | 16:54 | -1.51E-01 | 1.05 |
| -0.08 | { 1.97E-02 | '979_125pj | 18-Jan | 17:09 | -1.51E-01 | 0.07 |

0.01

| | | | | | | |
|-----------|-----------------------|--------|-------|-----------|-------|------|
| 1.06 | { 1.73E-02 '142777-2' | 18-Jan | 17:25 | -1.51E-01 | 1.21 | 0.05 |
| -1.96E-01 | 2.64E-02 Proc_3112; | 18-Jan | 17:32 | -1.51E-01 | -0.05 | |