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# DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

| | |
|---|---|
| Value | If the result is a value greater than or equal to the detection limit, report the value |
| **U** | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required. |
| **ND** | Indicates the analyte was analyzed for, but not detected |
| **J** | Indicates an estimated value**.** This flag is used:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| **B** | Indicates the analyte was found in the blank as well as the sample report as "12 B". |
| **E** | Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis. |
| **D** | This flag identifies all compounds identified in an analysis at a secondary dilution factor. |
| **P** | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P". |
| **N** | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used. |
| **A** | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product. |
| **Q** | Indicates the LCS did not meet the control limits requirements |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4595 | **OrderDate:** | 10/28/2024 11:31:00 AM |
| **Client:** | Tully Construction Co., Inc. | **Project:** | Pitkin Yard |
| **Contact:** | Dean Devoe | **Location:** | K61,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4595-01** | **PITKIN-COMP** | **SOIL** | | | **10/28/24** | | | **10/28/24** |
| | | | SVOC-PAH | 8270E | | 10/29/24 | 10/31/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4595

**Client:** Tully Construction Co., Inc.

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID :** | **PITKIN-COMP** | | | | | | | |
| P4595-01 | PITKIN-COMP | SOIL | Fluoranthene | 0.095 | J | 0.087 | 0.18 | mg/Kg |
| P4595-01 | PITKIN-COMP | SOIL | Pyrene | 0.097 | J | 0.089 | 0.18 | mg/Kg |
| | | | **Total Svoc :** | **0.19** | | | | |
| | | | **Total Concentration:** | **0.19** | | | | |


# QC SUMMARY

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# Surrogate Summary

**SW-846**

**SDG No.:** P4595

**Client:** Tully Construction Co., Inc.

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| P4594-05MS | BP-F17MS | Nitrobenzene-d5 | 100 | 68.3 | 68 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 65.7 | 66 | | 20 | 109 |
| | | Terphenyl-d14 | 100 | 68.6 | 69 | | 10 | 105 |
| P4594-05MSD | BP-F17MSD | Nitrobenzene-d5 | 100 | 62.8 | 63 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 61.2 | 61 | | 20 | 109 |
| | | Terphenyl-d14 | 100 | 61.7 | 62 | | 10 | 105 |
| P4595-01 | PITKIN-COMP | Nitrobenzene-d5 | 100 | 46.2 | 46 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 49.3 | 49 | | 20 | 109 |
| | | Terphenyl-d14 | 100 | 55.4 | 55 | | 10 | 105 |
| PB164497BL | PB164497BL | Nitrobenzene-d5 | 100 | 90.3 | 90 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 85.1 | 85 | | 20 | 109 |
| | | Terphenyl-d14 | 100 | 87.9 | 88 | | 10 | 105 |
| PB164497BS | PB164497BS | Nitrobenzene-d5 | 100 | 90.3 | 90 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 87.2 | 87 | | 20 | 109 |
| | | Terphenyl-d14 | 100 | 93.2 | 93 | | 10 | 105 |

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**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** P4595

**Client:** Tully Construction Co., Inc.

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: P4594-05MS** | | **Client Sample ID: BP-F17MS** | | | | | | **DataFile: BF140117.D** | | | |
| Naphthalene | 1100 | 0 | 990 | ug/Kg | 90 | | | | 72 | 110 | |
| Acenaphthylene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 79 | 118 | |
| Acenaphthene | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 70 | 121 | |
| Fluorene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 68 | 116 | |
| Phenanthrene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 52 | 128 | |
| Anthracene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 62 | 124 | |
| Fluoranthene | 1100 | 0 | 960 | ug/Kg | 87 | | | | 44 | 125 | |
| Pyrene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 26 | 142 | |
| Benzo(a)anthracene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 71 | 114 | |
| Chrysene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 57 | 121 | |
| Benzo(b)fluoranthene | 1100 | 0 | 980 | ug/Kg | 89 | | | | 67 | 121 | |
| Benzo(k)fluoranthene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 57 | 134 | |
| Benzo(a)pyrene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 | 142 | |
| Indeno(1,2,3-cd)pyrene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 40 | 129 | |
| Dibenz(a,h)anthracene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 43 | 123 | |
| Benzo(g,h,i)perylene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 24 | 125 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4595

**Client:** Tully Construction Co., Inc.

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: P4594-05MSD** | | **Client Sample ID: BP-F17MSD** | | | | | | **DataFile: BF140118.D** | | | |
| Naphthalene | 1100 | 0 | 920 | ug/Kg | 84 | | 7 | | 72 | 110 | 20 |
| Acenaphthylene | 1100 | 0 | 1000 | ug/Kg | 91 | | 9 | | 79 | 118 | 20 |
| Acenaphthene | 1100 | 0 | 1100 | ug/Kg | 100 | | 9 | | 70 | 121 | 20 |
| Fluorene | 1100 | 0 | 960 | ug/Kg | 87 | | 4 | | 68 | 116 | 20 |
| Phenanthrene | 1100 | 0 | 960 | ug/Kg | 87 | | 4 | | 52 | 128 | 20 |
| Anthracene | 1100 | 0 | 1000 | ug/Kg | 91 | | 9 | | 62 | 124 | 20 |
| Fluoranthene | 1100 | 0 | 880 | ug/Kg | 80 | | 8 | | 44 | 125 | 20 |
| Pyrene | 1100 | 0 | 940 | ug/Kg | 85 | | 7 | | 26 | 142 | 20 |
| Benzo(a)anthracene | 1100 | 0 | 990 | ug/Kg | 90 | | 11 | | 71 | 114 | 20 |
| Chrysene | 1100 | 0 | 990 | ug/Kg | 90 | | 11 | | 57 | 121 | 20 |
| Benzo(b)fluoranthene | 1100 | 0 | 960 | ug/Kg | 87 | | 2 | | 67 | 121 | 20 |
| Benzo(k)fluoranthene | 1100 | 0 | 970 | ug/Kg | 88 | | 13 | | 57 | 134 | 20 |
| Benzo(a)pyrene | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 70 | 142 | 20 |
| Indeno(1,2,3-cd)pyrene | 1100 | 0 | 1000 | ug/Kg | 91 | | 9 | | 40 | 129 | 20 |
| Dibenz(a,h)anthracene | 1100 | 0 | 990 | ug/Kg | 90 | | 11 | | 43 | 123 | 20 |
| Benzo(g,h,i)perylene | 1100 | 0 | 900 | ug/Kg | 82 | | 10 | | 24 | 125 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4595

**Client:** Tully Construction Co., Inc.

**Analytical Method:** 8270E **DataFile:** BF140115.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164497BS | Naphthalene | 1700 | 1400 | ug/Kg | 82 | | | | 62 | 100 | |
| | Acenaphthylene | 1700 | 1500 | ug/Kg | 88 | | | | 63 | 101 | |
| | Acenaphthene | 1700 | 1700 | ug/Kg | 100 | | | | 57 | 104 | |
| | Fluorene | 1700 | 1500 | ug/Kg | 88 | | | | 61 | 101 | |
| | Phenanthrene | 1700 | 1400 | ug/Kg | 82 | | | | 59 | 103 | |
| | Anthracene | 1700 | 1500 | ug/Kg | 88 | | | | 61 | 105 | |
| | Fluoranthene | 1700 | 1400 | ug/Kg | 82 | | | | 57 | 107 | |
| | Pyrene | 1700 | 1500 | ug/Kg | 88 | | | | 59 | 103 | |
| | Benzo(a)anthracene | 1700 | 1500 | ug/Kg | 88 | | | | 60 | 102 | |
| | Chrysene | 1700 | 1600 | ug/Kg | 94 | | | | 59 | 101 | |
| | Benzo(b)fluoranthene | 1700 | 1600 | ug/Kg | 94 | | | | 62 | 109 | |
| | Benzo(k)fluoranthene | 1700 | 1500 | ug/Kg | 88 | | | | 62 | 109 | |
| | Benzo(a)pyrene | 1700 | 1700 | ug/Kg | 100 | | | | 63 | 103 | |
| | Indeno(1,2,3-cd)pyrene | 1700 | 1600 | ug/Kg | 94 | | | | 63 | 101 | |
| | Dibenz(a,h)anthracene | 1700 | 1600 | ug/Kg | 94 | | | | 61 | 112 | |
| | Benzo(g,h,i)perylene | 1700 | 1500 | ug/Kg | 88 | | | | 70 | 108 | |

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# SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164497BL

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P4595 SAS No.: P4595 SDG NO.: P4595

Lab File ID: BF140114.D Lab Sample ID: PB164497BL

Instrument ID: BNA_F Date Extracted: 10/29/2024

Matrix: (soil/water) SOIL Date Analyzed: 10/29/2024

Level: (low/med) LOW Time Analyzed: 16:26

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| PB164497BS | PB164497BS | BF140115.D | 10/29/2024 |
| BP-F17MSD | P4594-05MSD | BF140118.D | 10/29/2024 |
| PITKIN-COMP | P4595-01 | BE101442.D | 10/31/2024 |
| BP-F17MS | P4594-05MS | BF140117.D | 10/29/2024 |

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM SAS No.: P4595 SDG NO.: P4595

Lab File ID: BE101388.D DFTPP Injection Date: 10/28/2024

Instrument ID: BNA_E DFTPP Injection Time: 10:51

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 17.8 |
| 68 | Less than 2.0% of mass 69 | 0.3 ( 1.5 ) 1 |
| 69 | Mass 69 relative abundance | 18.3 |
| 70 | Less than 2.0% of mass 69 | 0.0 ( 0.1 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 27.1 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 4 |
| 275 | 10.0 - 60.0% of mass 198 | 20 |
| 365 | Greater than 1% of mass 198 | 3.2 |
| 441 | Present, but less than mass 443 | 16.5 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 20.1 (20.1) 2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BE101389.D | 10/28/2024 | 11:44 |
| SSTDICC005 | SSTDICC005 | BE101390.D | 10/28/2024 | 12:23 |
| SSTDICC010 | SSTDICC010 | BE101391.D | 10/28/2024 | 12:59 |
| SSTDICC020 | SSTDICC020 | BE101392.D | 10/28/2024 | 13:35 |
| SSTDICCC040 | SSTDICCC040 | BE101393.D | 10/28/2024 | 14:11 |
| SSTDICC050 | SSTDICC050 | BE101394.D | 10/28/2024 | 14:49 |
| SSTDICC060 | SSTDICC060 | BE101395.D | 10/28/2024 | 15:25 |
| SSTDICC080 | SSTDICC080 | BE101396.D | 10/28/2024 | 16:01 |

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# SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM SAS No.: P4595 SDG NO.: P4595

Lab File ID: BE101424.D DFTPP Injection Date: 10/31/2024

Instrument ID: BNA_E DFTPP Injection Time: 09:40

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 18.3 |
| 68 | Less than 2.0% of mass 69 | 0.2 ( 0.8 ) 1 |
| 69 | Mass 69 relative abundance | 19.2 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 27 |
| 197 | Less than 2.0% of mass 198 | 0.1 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 4.1 |
| 275 | 10.0 - 60.0% of mass 198 | 19.5 |
| 365 | Greater than 1% of mass 198 | 3.1 |
| 441 | Present, but less than mass 443 | 16.5 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.6 (19.6) 2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BE101425.D | 10/31/2024 | 10:18 |
| PITKIN-COMP | P4595-01 | BE101442.D | 10/31/2024 | 20:36 |

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**5B**

**SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK**
**DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM SAS No.: P4595 SDG NO.: P4595

Lab File ID: BF139843.D DFTPP Injection Date: 10/18/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:22

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 43.8 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 37.8 |
| 70 | Less than 2.0% of mass 69 | 0.3 ( 0.7 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 46.9 |
| 197 | Less than 2.0% of mass 198 | 0.8 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.7 |
| 275 | 10.0 - 60.0% of mass 198 | 26.9 |
| 365 | Greater than 1% of mass 198 | 3.4 |
| 441 | Present, but less than mass 443 | 14 |
| 442 | Greater than 50% of mass 198 | 93.1 |
| 443 | 15.0 - 24.0% of mass 442 | 17.9 (19.2) 2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BF139844.D | 10/18/2024 | 10:27 |
| SSTDICC005 | SSTDICC005 | BF139845.D | 10/18/2024 | 10:55 |
| SSTDICC010 | SSTDICC010 | BF139846.D | 10/18/2024 | 11:23 |
| SSTDICC020 | SSTDICC020 | BF139847.D | 10/18/2024 | 11:52 |
| SSTDICCC040 | SSTDICCC040 | BF139848.D | 10/18/2024 | 12:20 |
| SSTDICC050 | SSTDICC050 | BF139849.D | 10/18/2024 | 12:49 |
| SSTDICC060 | SSTDICC060 | BF139850.D | 10/18/2024 | 13:17 |
| SSTDICC080 | SSTDICC080 | BF139851.D | 10/18/2024 | 13:46 |

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**5B**

**SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK**
**DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM SAS No.: P4595 SDG NO.: P4595

Lab File ID: BF140112.D DFTPP Injection Date: 10/29/2024

Instrument ID: BNA_F DFTPP Injection Time: 15:35

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 31.9 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 29.7 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 38.6 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 5.7 |
| 275 | 10.0 - 60.0% of mass 198 | 25.1 |
| 365 | Greater than 1% of mass 198 | 3.2 |
| 441 | Present, but less than mass 443 | 15.1 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.1 (19.1) 2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF140113.D | 10/29/2024 | 16:01 |
| PB164497BL | PB164497BL | BF140114.D | 10/29/2024 | 16:26 |
| PB164497BS | PB164497BS | BF140115.D | 10/29/2024 | 16:52 |
| BP-F17MS | P4594-05MS | BF140117.D | 10/29/2024 | 17:45 |
| BP-F17MSD | P4594-05MSD | BF140118.D | 10/29/2024 | 18:11 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4595 SAS No.: P4595 SDG NO.: P4595

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/31/2024

Lab File ID: BE101425.D Time Analyzed: 10:18

Instrument ID: BNA_E GC Column: ZB-GR ID: 0.25 (mm)

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 136647 | 7.573 | 695845 | 10.34 | 498092 | 14.18 |
| | UPPER LIMIT | 273294 | 8.073 | 1391690 | 10.84 | 996184 | 14.683 |
| | LOWER LIMIT | 68323.5 | 7.073 | 347923 | 9.84 | 249046 | 13.683 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PITKIN-COMP | 148112 | 7.58 | 698047 | 10.35 | 479391 | 14.19 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4595 SAS No.: P4595 SDG NO.: P4595

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/31/2024

Lab File ID: BE101425.D Time Analyzed: 10:18

Instrument ID: BNA_E GC Column: ZB-GR ID: 0.25 (mm)

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 1107610 | 16.915 | 1206960 | 21.081 | 1484760 | 23.366 |
| | UPPER LIMIT | 2215220 | 17.415 | 2413920 | 21.581 | 2969520 | 23.866 |
| | LOWER LIMIT | 553805 | 16.415 | 603480 | 20.581 | 742380 | 22.866 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PITKIN-COMP | 1031180 | 16.93 | 1039490 | 21.09 | 1358300 | 23.38 |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4595 SAS No.: P4595 SDG NO.: P4595

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/29/2024

Lab File ID: BF140113.D Time Analyzed: 16:01

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 154336 | 6.892 | 582321 | 8.18 | 326390 | 9.93 |
| | UPPER LIMIT | 308672 | 7.392 | 1164640 | 8.675 | 652780 | 10.428 |
| | LOWER LIMIT | 77168 | 6.392 | 291161 | 7.675 | 163195 | 9.428 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164497BL | 131951 | 6.89 | 529341 | 8.17 | 309747 | 9.92 |
| 02 | BP-F17MS | 132457 | 6.89 | 527177 | 8.17 | 297266 | 9.93 |
| 03 | BP-F17MSD | 136471 | 6.89 | 534539 | 8.17 | 298449 | 9.93 |
| 04 | PB164497BS | 134081 | 6.89 | 526800 | 8.17 | 296679 | 9.93 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4595 SAS No.: P4595 SDG NO.: P4595

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/29/2024

Lab File ID: BF140113.D Time Analyzed: 16:01

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 563401 | 11.416 | 296186 | 14.074 | 329400 | 15.592 |
| | UPPER LIMIT | 1126800 | 11.916 | 592372 | 14.574 | 658800 | 16.092 |
| | LOWER LIMIT | 281701 | 10.916 | 148093 | 13.574 | 164700 | 15.092 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164497BL | 594247 | 11.41 | 362694 | 14.06 | 299972 | 15.57 |
| 02 | BP-F17MS | 510240 | 11.42 | 257285 | 14.06 | 279776 | 15.57 |
| 03 | BP-F17MSD | 515265 | 11.42 | 259907 | 14.06 | 284229 | 15.57 |
| 04 | PB164497BS | 541600 | 11.42 | 283467 | 14.07 | 279985 | 15.57 |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.


# SAMPLE DATA

Raw Data: **BE101442.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tully Construction Co., Inc. | Date Collected: | 10/28/24 |
| Project: | Pitkin Yard | Date Received: | 10/28/24 |
| Client Sample ID: | PITKIN-COMP | SDG No.: | P4595 |
| Lab Sample ID: | P4595-01 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 93.5 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-PAH |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101442.D | 1 | 10/29/24 09:15 | 10/31/24 20:36 | PB164497 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 91-20-3 | Naphthalene | 0.088 | U | 0.088 | 0.18 | mg/Kg |
| 208-96-8 | Acenaphthylene | 0.093 | U | 0.093 | 0.18 | mg/Kg |
| 83-32-9 | Acenaphthene | 0.087 | U | 0.087 | 0.18 | mg/Kg |
| 86-73-7 | Fluorene | 0.091 | U | 0.091 | 0.18 | mg/Kg |
| 85-01-8 | Phenanthrene | 0.090 | U | 0.090 | 0.18 | mg/Kg |
| 120-12-7 | Anthracene | 0.090 | U | 0.090 | 0.18 | mg/Kg |
| 206-44-0 | Fluoranthene | 0.095 | J | 0.087 | 0.18 | mg/Kg |
| 129-00-0 | Pyrene | 0.097 | J | 0.089 | 0.18 | mg/Kg |
| 56-55-3 | Benzo(a)anthracene | 0.086 | U | 0.086 | 0.18 | mg/Kg |
| 218-01-9 | Chrysene | 0.085 | U | 0.085 | 0.18 | mg/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 0.087 | U | 0.087 | 0.18 | mg/Kg |
| 207-08-9 | Benzo(k)fluoranthene | 0.088 | U | 0.088 | 0.18 | mg/Kg |
| 50-32-8 | Benzo(a)pyrene | 0.099 | U | 0.099 | 0.18 | mg/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.084 | U | 0.084 | 0.18 | mg/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.087 | U | 0.087 | 0.18 | mg/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 0.086 | U | 0.086 | 0.18 | mg/Kg |
| **SURROGATES** | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 46.2 | | 18 - 107 | 46% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 49.3 | | 20 - 109 | 49% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 55.4 | | 10 - 105 | 55% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 148000 | 7.579 | | | |
| 1146-65-2 | Naphthalene-d8 | 698000 | 10.346 | | | |
| 15067-26-2 | Acenaphthene-d10 | 479000 | 14.189 | | | |
| 1517-22-2 | Phenanthrene-d10 | 1030000 | 16.927 | | | |
| 1719-03-5 | Chrysene-d12 | 1040000 | 21.086 | | | |
| 1520-96-3 | Perylene-d12 | 1360000 | 23.384 | | | |

Raw Data: **BE101442.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tully Construction Co., Inc. | Date Collected: | 10/28/24 |
| Project: | Pitkin Yard | Date Received: | 10/28/24 |
| Client Sample ID: | PITKIN-COMP | SDG No.: | P4595 |
| Lab Sample ID: | P4595-01 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 93.5 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-PAH |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101442.D | 1 | 10/29/24 09:15 | 10/31/24 20:36 | PB164497 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101442.D
Acq On : 31 Oct 2024 20:36
Operator : RC/JU
Sample : P4595-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
PITKIN-COMP

Quant Time: Nov 01 06:16:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.579 | 152 | 148112 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 10.346 | 136 | 698047 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 14.189 | 164 | 479391 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 16.927 | 188 | 1031178 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 21.086 | 240 | 1039489 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 23.384 | 264 | 1358300 | 20.000 | ng | 0.02 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.328 | 112 | 625722 | 74.044 | ng | 0.00 |
| 7) Phenol-d6 | 6.956 | 99 | 850492 | 72.582 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 8.789 | 82 | 513706 | 46.222 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.693 | 330 | 593575 | 70.645 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 12.808 | 172 | 1395500 | 49.299 | ng | 0.00 |
| 79) Terphenyl-d14 | 19.518 | 244 | 2503604 | 55.433 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 75) Fluoranthene | 18.971 | 202 | 160620 | 2.679 | ng | 96 |
| 78) Pyrene | 19.336 | 202 | 155894 | 2.727 | ng | 99 |

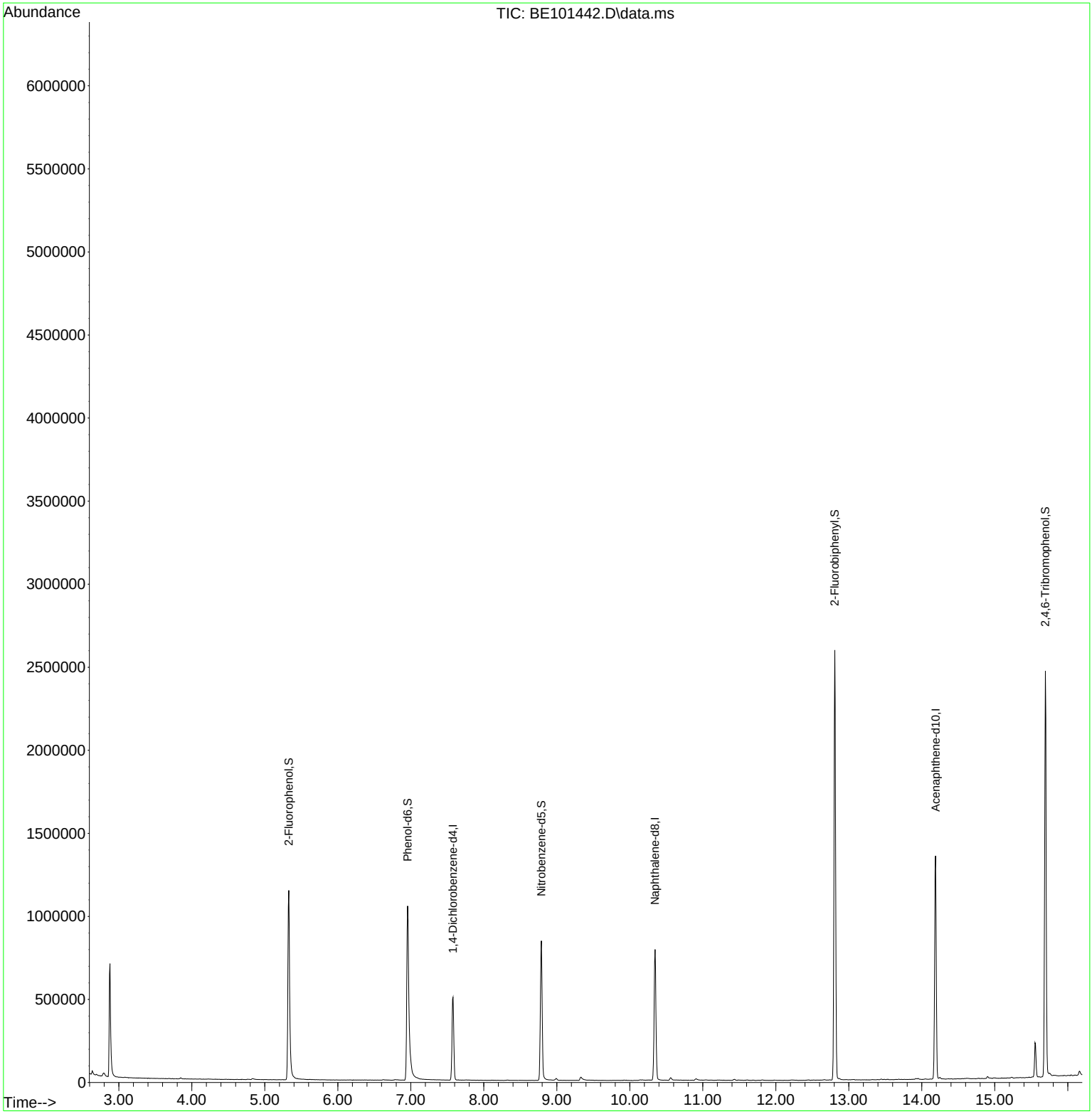
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **BE101442.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101442.D
Acq On : 31 Oct 2024 20:36
Operator : RC/JU
Sample : P4595-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
PITKIN-COMP

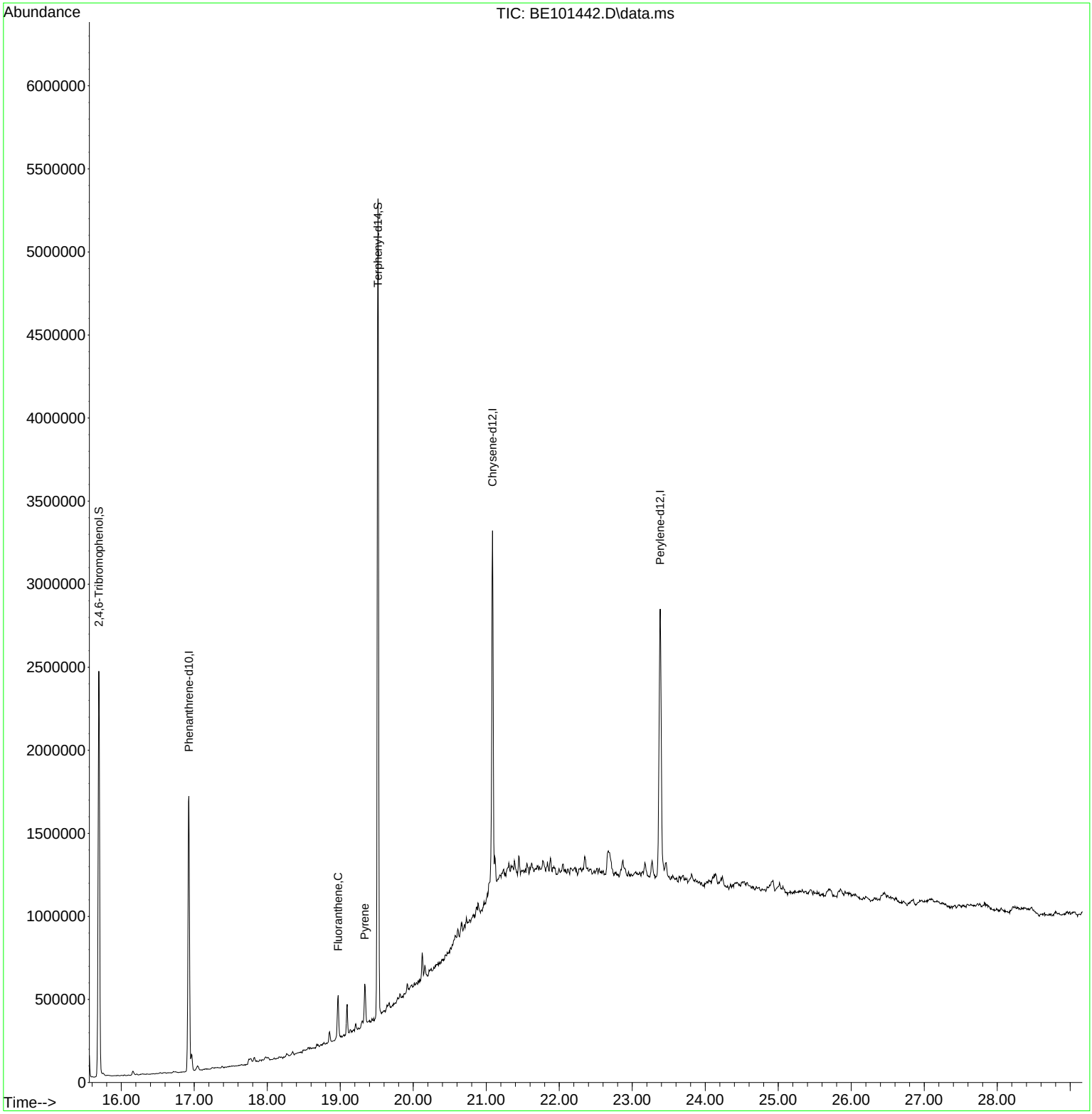
Quant Time: Nov 01 06:16:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

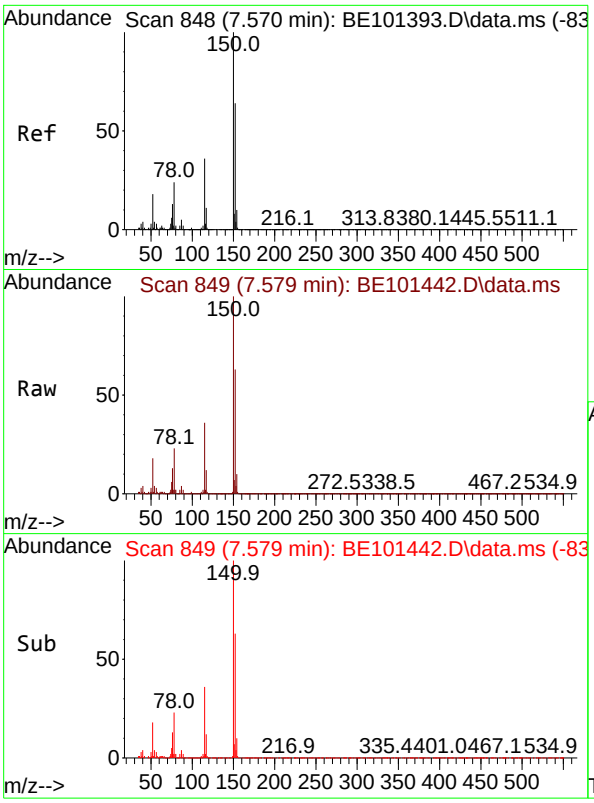


Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101442.D
Acq On : 31 Oct 2024 20:36
Operator : RC/JU
Sample : P4595-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
PITKIN-COMP

Quant Time: Nov 01 06:16:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



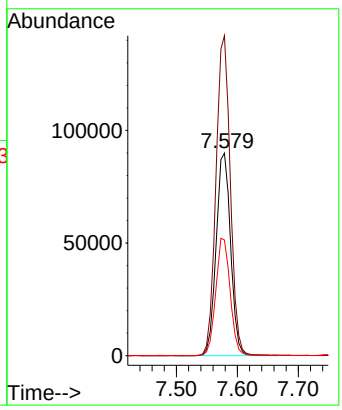


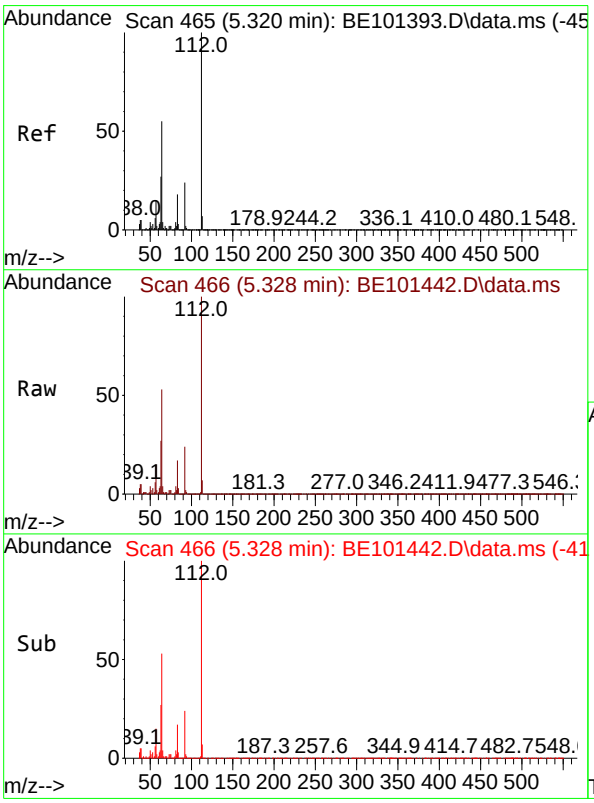

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.579 min Scan# 84
Delta R.T. 0.009 min
Lab File: BE101442.D
Acq: 31 Oct 2024 20:36

**Instrument :**
BNA_E
**ClientSampleId :**
PITKIN-COMP

Tgt Ion:152 Resp: 148112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.9 | 124.2 | 186.4 |
| 115 | 57.1 | 45.3 | 67.9 |

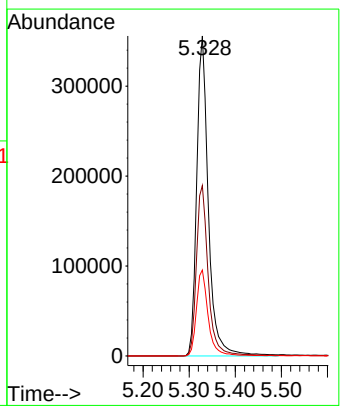


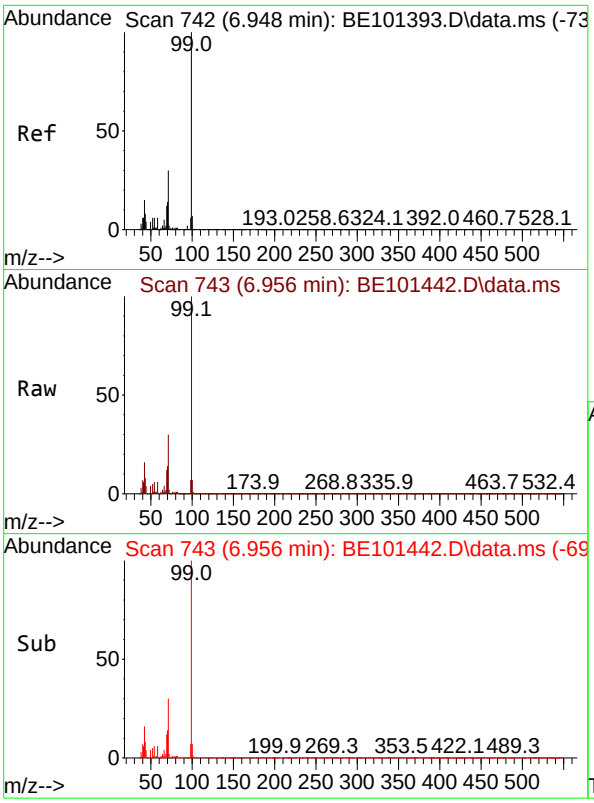




#5
2-Fluorophenol
Concen: 74.044 ng
RT: 5.328 min Scan# 466
Delta R.T. 0.008 min
Lab File: BE101442.D
Acq: 31 Oct 2024 20:36

Tgt Ion:112 Resp: 625722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.2 | 43.7 | 65.5 |
| 63 | 26.8 | 21.4 | 32.2 |



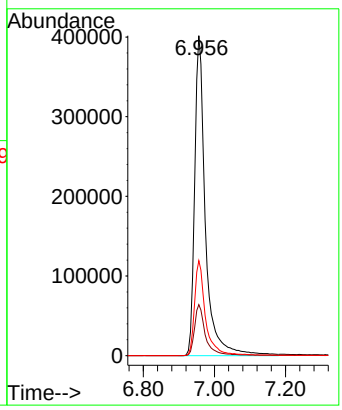


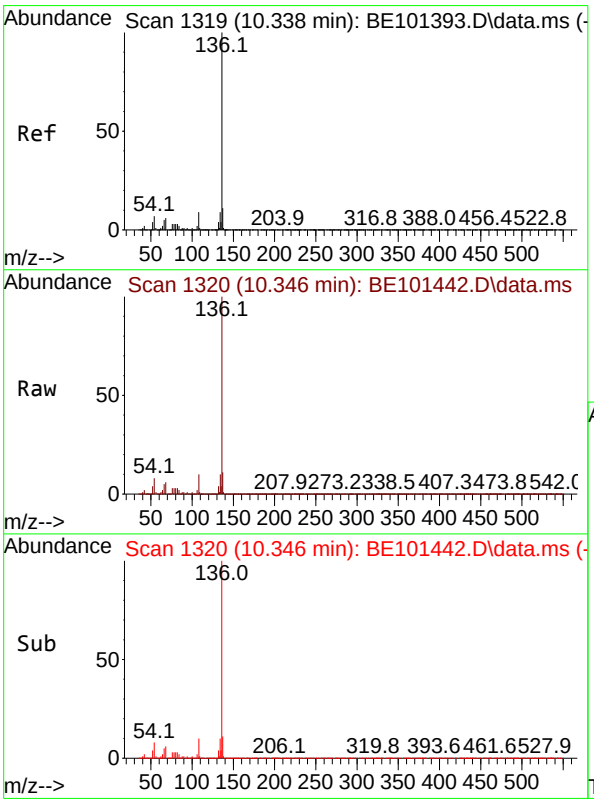

#7
Phenol-d6
Concen: 72.582 ng
RT: 6.956 min Scan# 7
Delta R.T. 0.008 min
Lab File: BE101442.D
Acq: 31 Oct 2024 20:36

**Instrument :**
BNA_E
**ClientSampleId :**
PITKIN-COMP

Tgt Ion: 99 Resp: 850492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 16.0 | 12.3 | 18.5 |
| 71 | 29.7 | 23.8 | 35.8 |

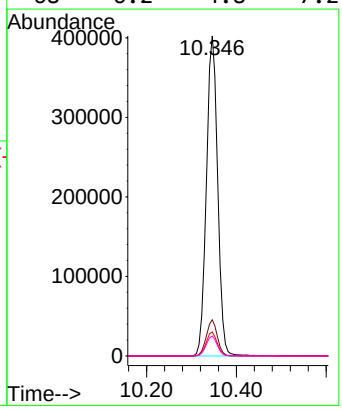


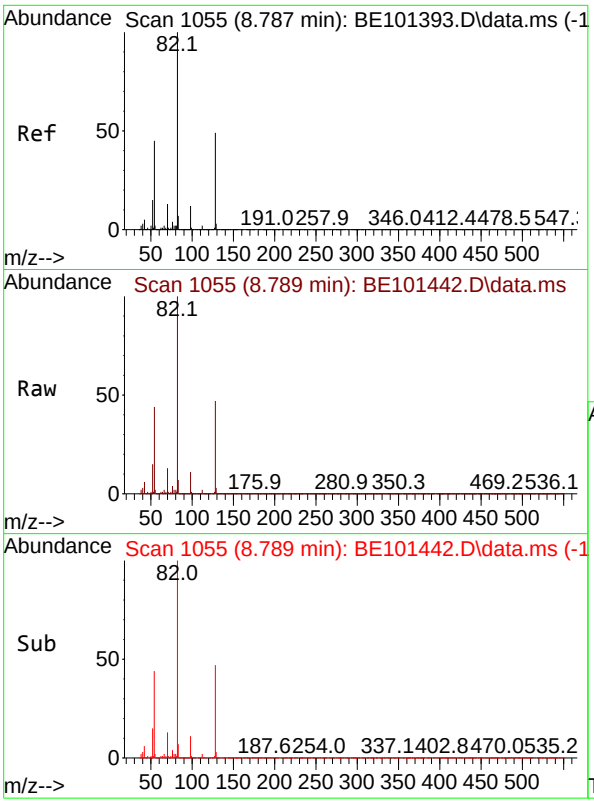




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.346 min Scan# 1320
Delta R.T. 0.008 min
Lab File: BE101442.D
Acq: 31 Oct 2024 20:36

Tgt Ion:136 Resp: 698047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.3 | 9.0 | 13.6 |
| 54 | 7.5 | 5.9 | 8.9 |
| 68 | 6.2 | 4.8 | 7.2 |



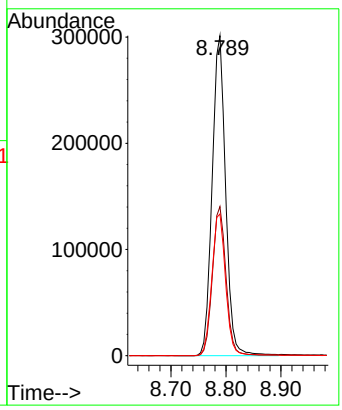


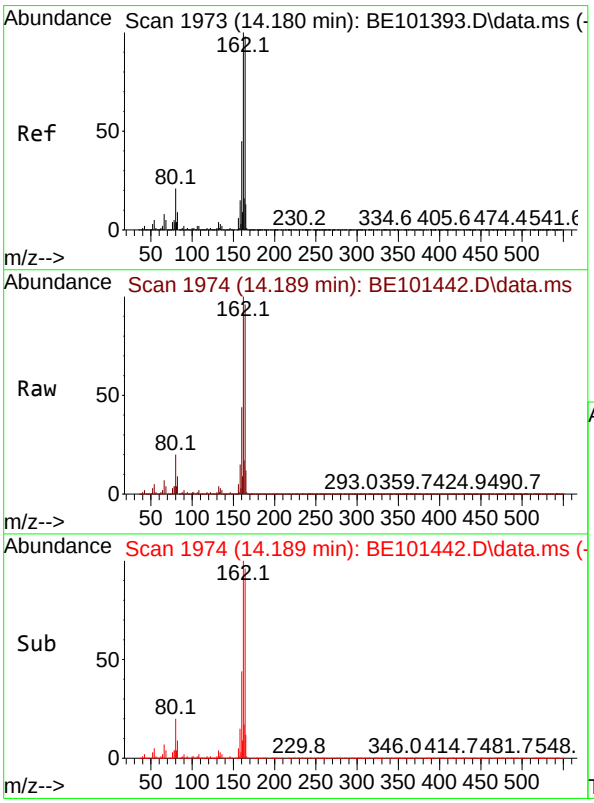

#23
Nitrobenzene-d5
Concen: 46.222 ng
RT: 8.789 min Scan# 1
Delta R.T. 0.002 min
Lab File: BE101442.D
Acq: 31 Oct 2024 20:36

**Instrument :**
BNA_E
**ClientSampleId :**
PITKIN-COMP

Tgt Ion: 82 Resp: 513706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.6 | 38.9 | 58.3 |
| 54 | 44.3 | 36.2 | 54.4 |

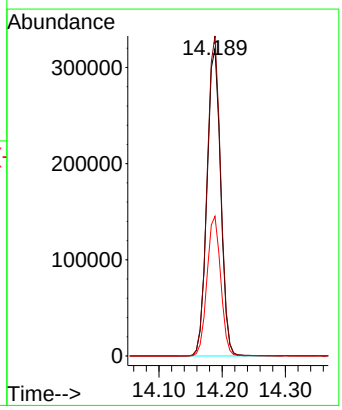


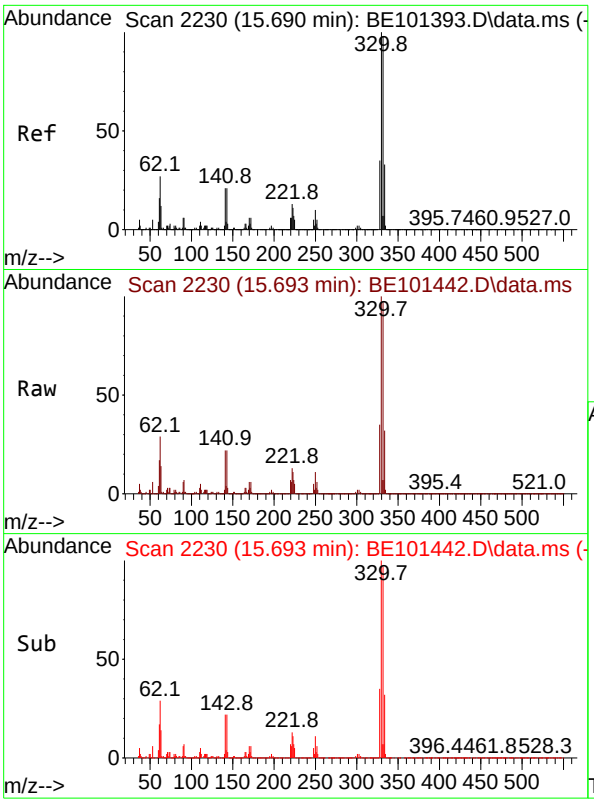




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.189 min Scan# 1974
Delta R.T. 0.008 min
Lab File: BE101442.D
Acq: 31 Oct 2024 20:36

Tgt Ion:164 Resp: 479391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.1 | 81.3 | 121.9 |
| 160 | 45.5 | 36.4 | 54.6 |



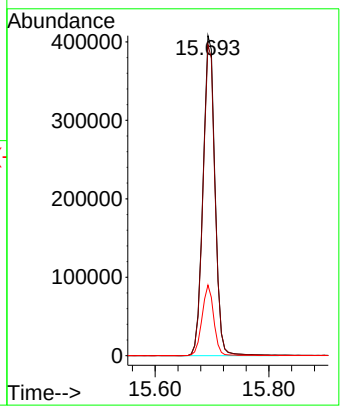


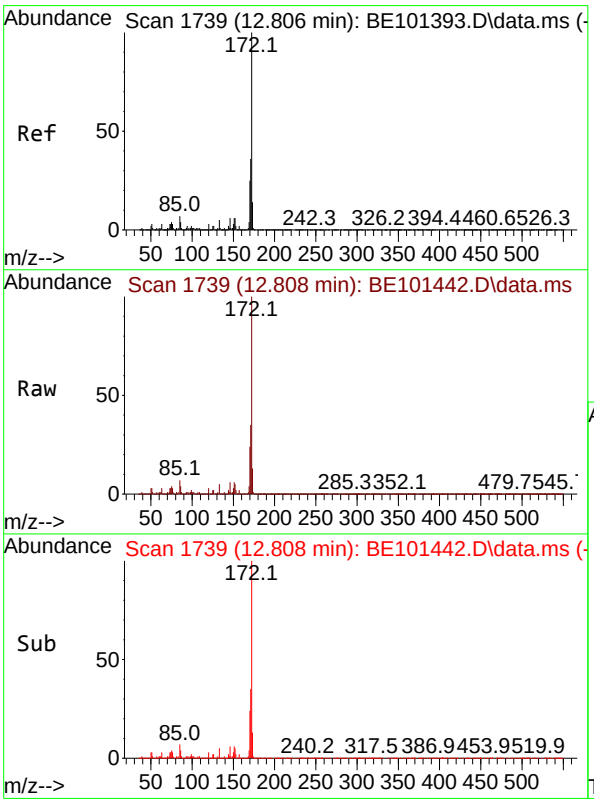

#42
2,4,6-Tribromophenol
Concen: 70.645 ng
RT: 15.693 min Scan# 2
Delta R.T. 0.002 min
Lab File: BE101442.D
Acq: 31 Oct 2024 20:36

**Instrument :**
BNA_E
**ClientSampleId :**
PITKIN-COMP

Tgt Ion:330 Resp: 593575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.7 | 78.2 | 117.2 |
| 141 | 21.6 | 18.3 | 27.5 |

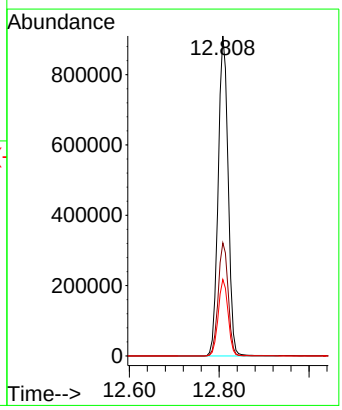


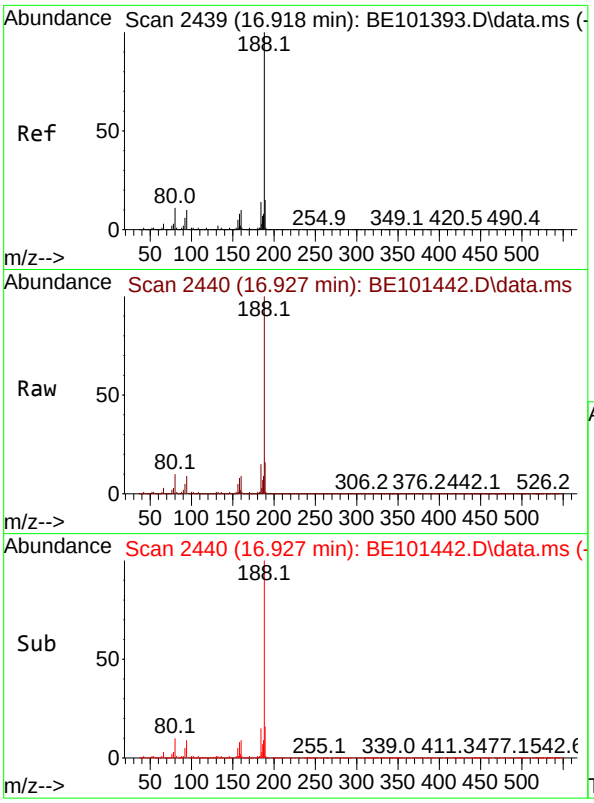




#45
2-Fluorobiphenyl
Concen: 49.299 ng
RT: 12.808 min Scan# 1739
Delta R.T. 0.002 min
Lab File: BE101442.D
Acq: 31 Oct 2024 20:36

Tgt Ion:172 Resp: 1395500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.4 | 29.2 | 43.8 |
| 170 | 23.9 | 19.8 | 29.6 |



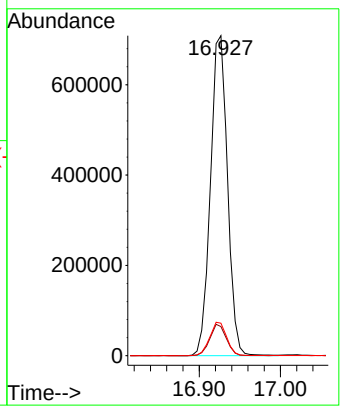


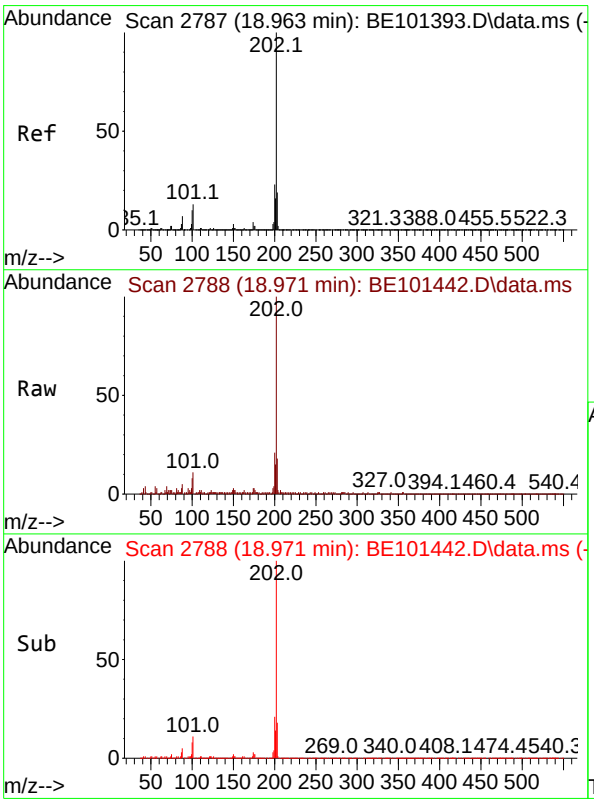

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.927 min Scan# 24
Delta R.T. 0.008 min
Lab File: BE101442.D
Acq: 31 Oct 2024 20:36

**Instrument :**
BNA_E
**ClientSampleId :**
PITKIN-COMP

Tgt Ion:188 Resp: 1031178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.1 | 7.8 | 11.8 |
| 80 | 10.1 | 8.6 | 12.8 |

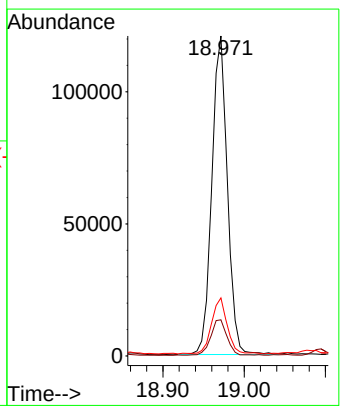


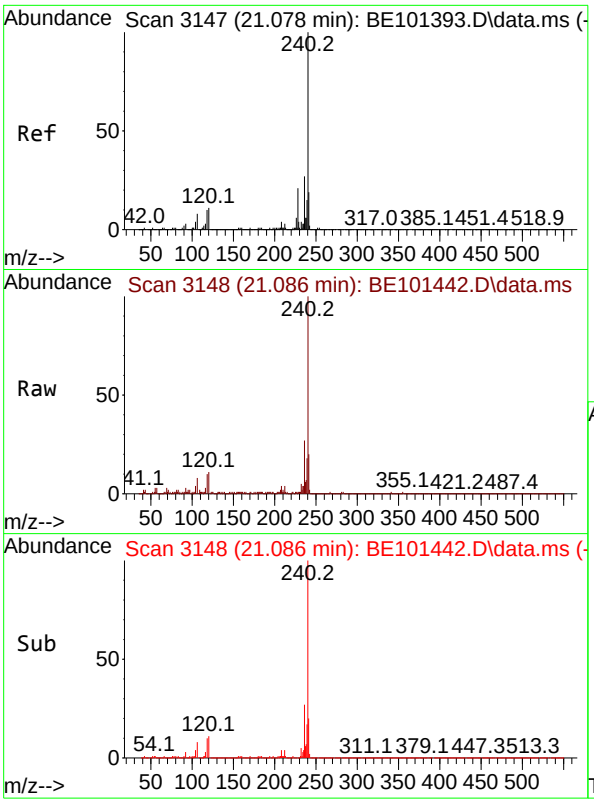




#75
Fluoranthene
Concen: 2.679 ng
RT: 18.971 min Scan# 2788
Delta R.T. 0.008 min
Lab File: BE101442.D
Acq: 31 Oct 2024 20:36

Tgt Ion:202 Resp: 160620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.3 | 0.0 | 33.3 |
| 203 | 18.2 | 0.0 | 39.3 |



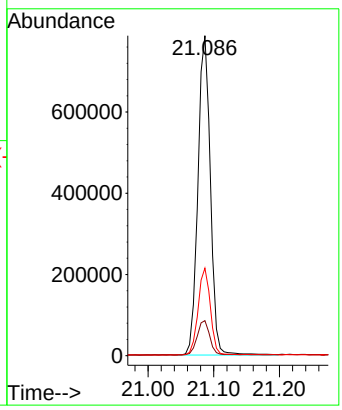


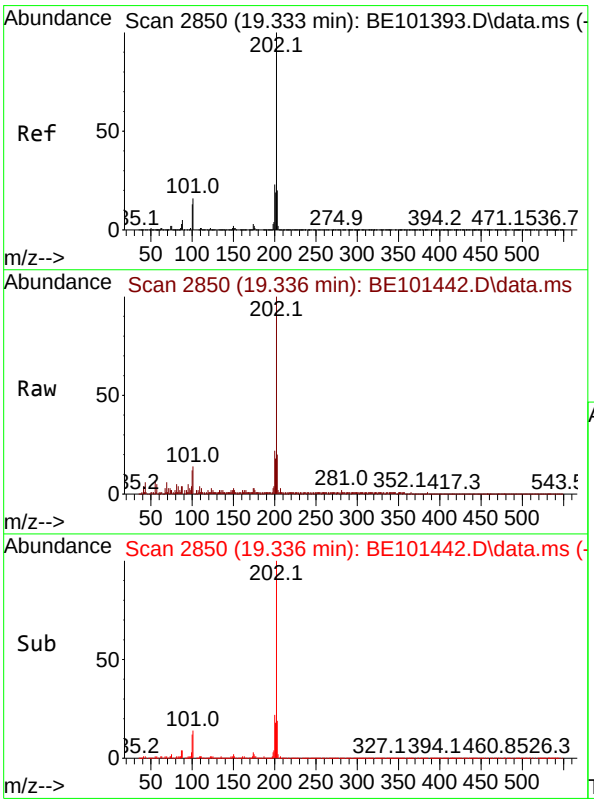

#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.086 min Scan# 3
Delta R.T. 0.008 min
Lab File: BE101442.D
Acq: 31 Oct 2024 20:36

**Instrument :**
BNA_E
**ClientSampleId :**
PITKIN-COMP

Tgt Ion:240 Resp: 1039489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.9 | 9.0 | 13.4 |
| 236 | 27.3 | 21.4 | 32.0 |

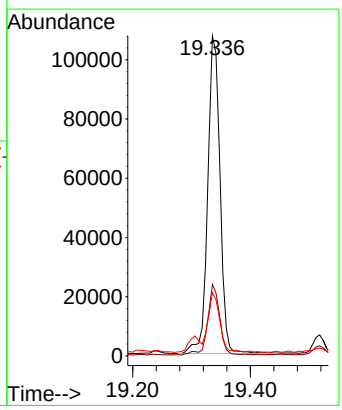


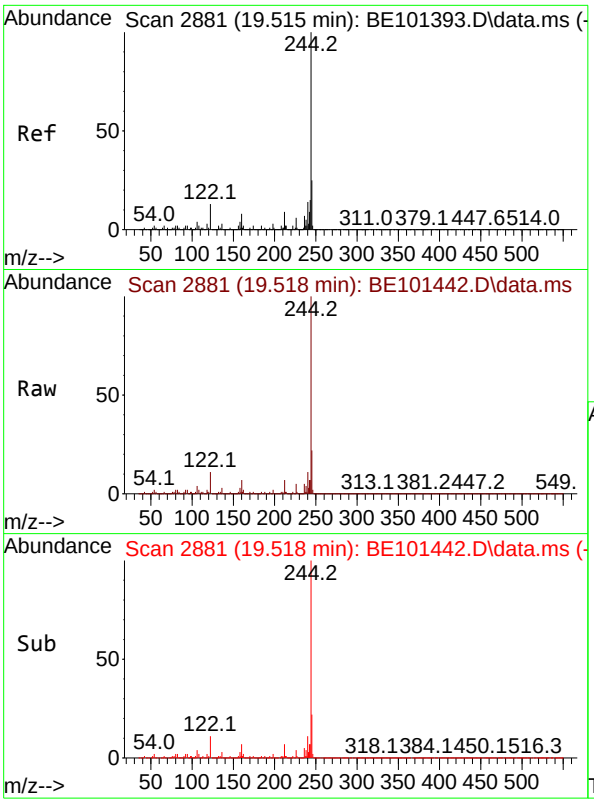




#78
Pyrene
Concen: 2.727 ng
RT: 19.336 min Scan# 2850
Delta R.T. 0.002 min
Lab File: BE101442.D
Acq: 31 Oct 2024 20:36

Tgt Ion:202 Resp: 155894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.4 | 18.6 | 28.0 |
| 203 | 19.8 | 15.6 | 23.4 |



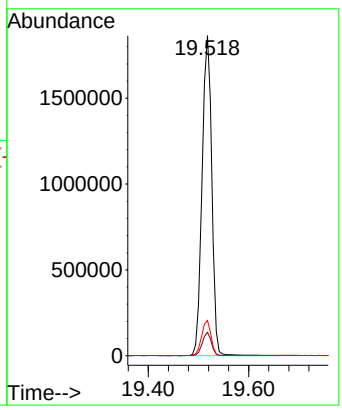


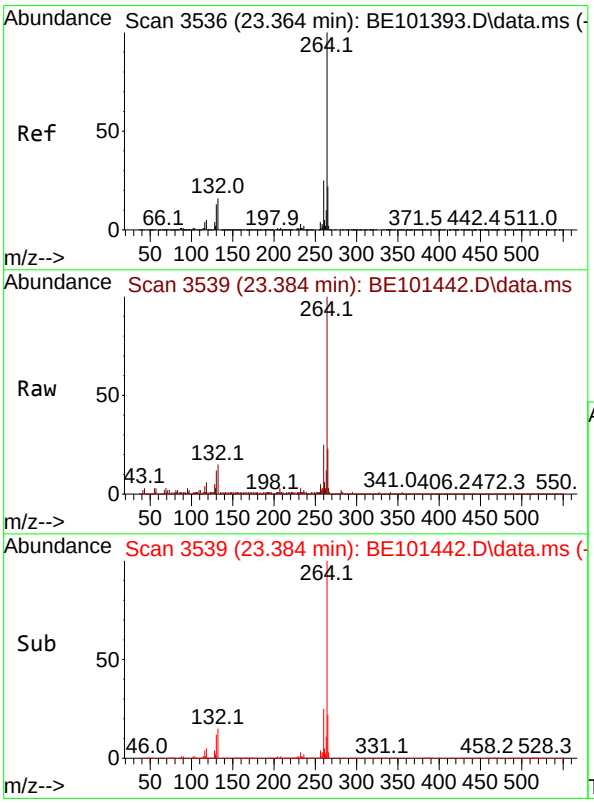

#79
Terphenyl-d14
Concen: 55.433 ng
RT: 19.518 min Scan# 2
Delta R.T. 0.003 min
Lab File: BE101442.D
Acq: 31 Oct 2024 20:36

**Instrument :**
BNA_E
**ClientSampleId :**
PITKIN-COMP

Tgt Ion:244 Resp: 2503604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.3 | 7.2 | 10.8 |
| 122 | 11.0 | 10.4 | 15.6 |

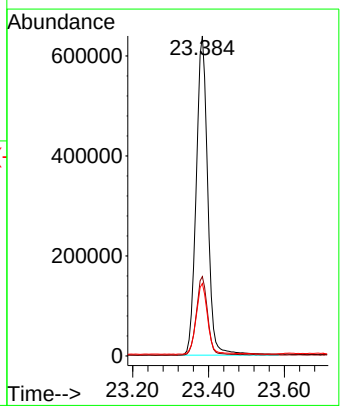



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.384 min Scan# 3539
Delta R.T. 0.020 min
Lab File: BE101442.D
Acq: 31 Oct 2024 20:36

Tgt Ion:264 Resp: 1358300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.8 | 19.8 | 29.8 |
| 265 | 22.7 | 17.6 | 26.4 |



# CALIBRATION SUMMARY

Raw Data

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P4595 SAS No.: P4595 SDG No.: P4595

Instrument ID: BNA_E Calibration Date(s): 10/28/2024 10/28/2024

Calibration Time(s): 11:44 16:01

LAB FILE ID: RRF2.5 = BE101389.D RRF005 = BE101390.D RRF010 = BE101391.D
RRF020 = BE101392.D RRF040 = BE101393.D RRF050 = BE101394.D

| COMPOUND | RRF2.5 | RRF005 | RRF010 | RRF020 | RRF040 | RRF050 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | | 1.134 | 1.073 | 1.142 | 1.153 | 1.143 | 1.141 | 3.0 |
| Phenol-d6 | | 1.450 | 1.475 | 1.558 | 1.629 | 1.594 | 1.582 | 6.1 |
| Nitrobenzene-d5 | | 0.292 | 0.306 | 0.325 | 0.336 | 0.323 | 0.318 | 4.8 |
| Naphthalene | | 1.092 | 1.040 | 1.039 | 1.045 | 0.982 | 1.019 | 5.0 |
| 2-Fluorobiphenyl | | 1.359 | 1.275 | 1.283 | 1.226 | 1.114 | 1.181 | 12.4 |
| Acenaphthylene | | 1.613 | 1.605 | 1.656 | 1.677 | 1.586 | 1.601 | 4.1 |
| Acenaphthene | | 1.120 | 1.080 | 1.073 | 1.075 | 1.016 | 1.045 | 5.8 |
| Fluorene | | 1.490 | 1.450 | 1.446 | 1.453 | 1.354 | 1.394 | 6.7 |
| 2,4,6-Tribromophenol | | 0.329 | 0.341 | 0.358 | 0.366 | 0.355 | 0.351 | 3.6 |
| Phenanthrene | | 1.068 | 1.023 | 1.012 | 0.991 | 0.912 | 0.958 | 9.6 |
| Anthracene | | 1.002 | 0.972 | 0.997 | 0.979 | 0.909 | 0.935 | 8.1 |
| Fluoranthene | | 1.320 | 1.268 | 1.306 | 1.199 | 1.102 | 1.163 | 13.3 |
| Pyrene | | 1.176 | 1.206 | 1.184 | 1.174 | 1.052 | 1.100 | 10.7 |
| Terphenyl-d14 | | 1.036 | 1.023 | 0.970 | 0.841 | 0.686 | 0.869 | 19.3 |
| Benzo(a)anthracene | | 1.277 | 1.238 | 1.243 | 1.174 | 1.047 | 1.124 | 13.2 |
| Chrysene | | 1.266 | 1.225 | 1.201 | 1.110 | 1.005 | 1.087 | 14.5 |
| Benzo(b)fluoranthene | | 1.076 | 1.113 | 1.100 | 1.110 | 1.023 | 1.042 | 8.3 |
| Benzo(k)fluoranthene | | 1.126 | 1.042 | 1.087 | 1.015 | 0.897 | 0.974 | 13.1 |
| Benzo(a)pyrene | | 0.935 | 0.933 | 0.961 | 0.966 | 0.899 | 0.912 | 6.4 |
| Indeno(1,2,3-cd)pyrene | | 1.390 | 1.352 | 1.390 | 1.394 | 1.315 | 1.338 | 4.8 |
| Dibenzo(a,h)anthracene | | 1.130 | 1.125 | 1.169 | 1.170 | 1.089 | 1.106 | 6.0 |
| Benzo(g,h,i)perylene | | 1.162 | 1.130 | 1.155 | 1.179 | 1.125 | 1.140 | 3.0 |

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_E

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Oct 29 01:26:30 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BE101389.D 5 =BE101390.D 10 =BE101391.D 20 =BE101392.D 40 =BE101393.D 50 =BE101394.D 60 =BE101395.D 80 =BE1013
96.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.471 | 0.463 | 0.454 | 0.421 | 0.400 | 0.392 | 0.379 | 0.426 | 8.76 |
| 3) | | Pyridine | | 1.064 | 1.123 | 1.255 | 1.196 | 1.252 | 1.287 | 1.252 | 1.204 | 6.80 |
| 4) | | n-Nitrosodimet... | | 0.459 | 0.440 | 0.454 | 0.479 | 0.473 | 0.488 | 0.468 | 0.466 | 3.45 |
| 5) | S | 2-Fluorophenol | | 1.134 | 1.073 | 1.142 | 1.153 | 1.143 | 1.187 | 1.155 | 1.141 | 3.03 |
| 6) | | Aniline | | 1.059 | 1.262 | 1.529 | 1.346 | 1.301 | 1.224 | 0.767 | 1.213 | 19.92 |
| 7) | S | Phenol-d6 | | 1.450 | 1.475 | 1.558 | 1.629 | 1.594 | 1.727 | 1.643 | 1.582 | 6.15 |
| 8) | | 2-Chlorophenol | | 1.335 | 1.305 | 1.371 | 1.403 | 1.369 | 1.426 | 1.371 | 1.369 | 2.94 |
| 9) | | Benzaldehyde | | 0.793 | 0.849 | 0.861 | 0.807 | 0.678 | 0.595 | | 0.764 | 13.74 |
| 10) | C | Phenol | | 1.488 | 1.456 | 1.766 | 1.826 | 1.797 | 1.914 | 1.769 | 1.717 | 10.16 |
| 11) | | bis(2-Chloroet... | | 1.513 | 1.401 | 1.245 | 1.477 | 1.322 | 1.408 | 1.492 | 1.408 | 6.93 |
| 12) | | 1,3-Dichlorobe... | | 1.563 | 1.523 | 1.508 | 1.488 | 1.424 | 1.443 | 1.382 | 1.476 | 4.25 |
| 13) | C | 1,4-Dichlorobe... | | 1.624 | 1.534 | 1.546 | 1.505 | 1.447 | 1.484 | 1.409 | 1.507 | 4.66 |
| 14) | | 1,2-Dichlorobe... | | 1.553 | 1.488 | 1.502 | 1.490 | 1.433 | 1.472 | 1.388 | 1.475 | 3.56 |
| 15) | | Benzyl Alcohol | | 0.704 | 0.797 | 0.979 | 1.061 | 1.013 | 1.059 | 0.990 | 0.943 | 14.61 |
| 16) | | 2,2'-oxybis(1-... | | 1.840 | 1.857 | 1.816 | 1.794 | 1.711 | 1.746 | 1.642 | 1.772 | 4.33 |
| 17) | | 2-Methylphenol | | 1.038 | 1.078 | 1.142 | 1.217 | 1.181 | 1.263 | 1.215 | 1.162 | 6.96 |
| 18) | | Hexachloroethane | | 0.497 | 0.486 | 0.492 | 0.497 | 0.495 | 0.496 | 0.481 | 0.492 | 1.28 |
| 19) | P | n-Nitroso-di-n... | 0.807 | 0.900 | 1.060 | 1.081 | 1.150 | 1.115 | 1.185 | 1.102 | 1.050 | 12.35 |
| 20) | | 3+4-Methylphenols | | 1.364 | 1.500 | 1.580 | 1.685 | 1.646 | 1.778 | 1.674 | 1.604 | 8.53 |
| 21) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | | |
| 22) | | Acetophenone | | 0.427 | 0.447 | 0.467 | 0.481 | 0.449 | 0.462 | 0.446 | 0.454 | 3.79 |
| 23) | S | Nitrobenzene-d5 | | 0.292 | 0.306 | 0.325 | 0.336 | 0.323 | 0.331 | 0.316 | 0.318 | 4.78 |
| 24) | | Nitrobenzene | | 0.315 | 0.325 | 0.349 | 0.355 | 0.339 | 0.350 | 0.339 | 0.339 | 4.26 |
| 25) | | Isophorone | | 0.533 | 0.601 | 0.624 | 0.665 | 0.639 | 0.655 | 0.632 | 0.621 | 7.13 |
| 26) | C | 2-Nitrophenol | | 0.127 | 0.141 | 0.162 | 0.179 | 0.175 | 0.182 | 0.181 | 0.164 | 13.41 |
| 27) | | 2,4-Dimethylph... | | 0.196 | 0.194 | 0.207 | 0.215 | 0.206 | 0.215 | 0.211 | 0.206 | 4.19 |
| 28) | | bis(2-Chloroet... | | 0.351 | 0.378 | 0.388 | 0.392 | 0.374 | 0.385 | 0.370 | 0.377 | 3.65 |
| 29) | C | 2,4-Dichloroph... | | 0.257 | 0.268 | 0.285 | 0.297 | 0.287 | 0.305 | 0.297 | 0.285 | 6.00 |
| 30) | | 1,2,4-Trichlor... | | 0.325 | 0.311 | 0.315 | 0.314 | 0.304 | 0.307 | 0.299 | 0.311 | 2.71 |
| 31) | | Naphthalene | | 1.092 | 1.040 | 1.039 | 1.045 | 0.982 | 0.999 | 0.936 | 1.019 | 5.00 |
| 32) | | Benzoic acid | | | 0.091 | 0.145 | 0.196 | 0.203 | 0.223 | 0.234 | 0.182 | 29.71 |
| 33) | | 4-Chloroaniline | | 0.321 | 0.355 | 0.373 | 0.398 | 0.364 | 0.365 | 0.305 | 0.354 | 8.87 |
| 34) | C | Hexachlorobuta... | | 0.193 | 0.185 | 0.187 | 0.187 | 0.179 | 0.180 | 0.176 | 0.184 | 3.26 |
| 35) | | Caprolactam | | 0.077 | 0.093 | 0.109 | 0.119 | 0.118 | 0.126 | 0.124 | 0.109 | 16.48 |
| 36) | C | 4-Chloro-3-met... | | 0.277 | 0.314 | 0.321 | 0.341 | 0.330 | 0.347 | 0.343 | 0.325 | 7.51 |
| 37) | | 2-Methylnaphth... | | 0.753 | 0.752 | 0.736 | 0.756 | 0.711 | 0.736 | 0.696 | 0.734 | 3.12 |
| 38) | | 1-Methylnaphth... | | 0.750 | 0.756 | 0.735 | 0.751 | 0.709 | 0.733 | 0.696 | 0.733 | 3.08 |

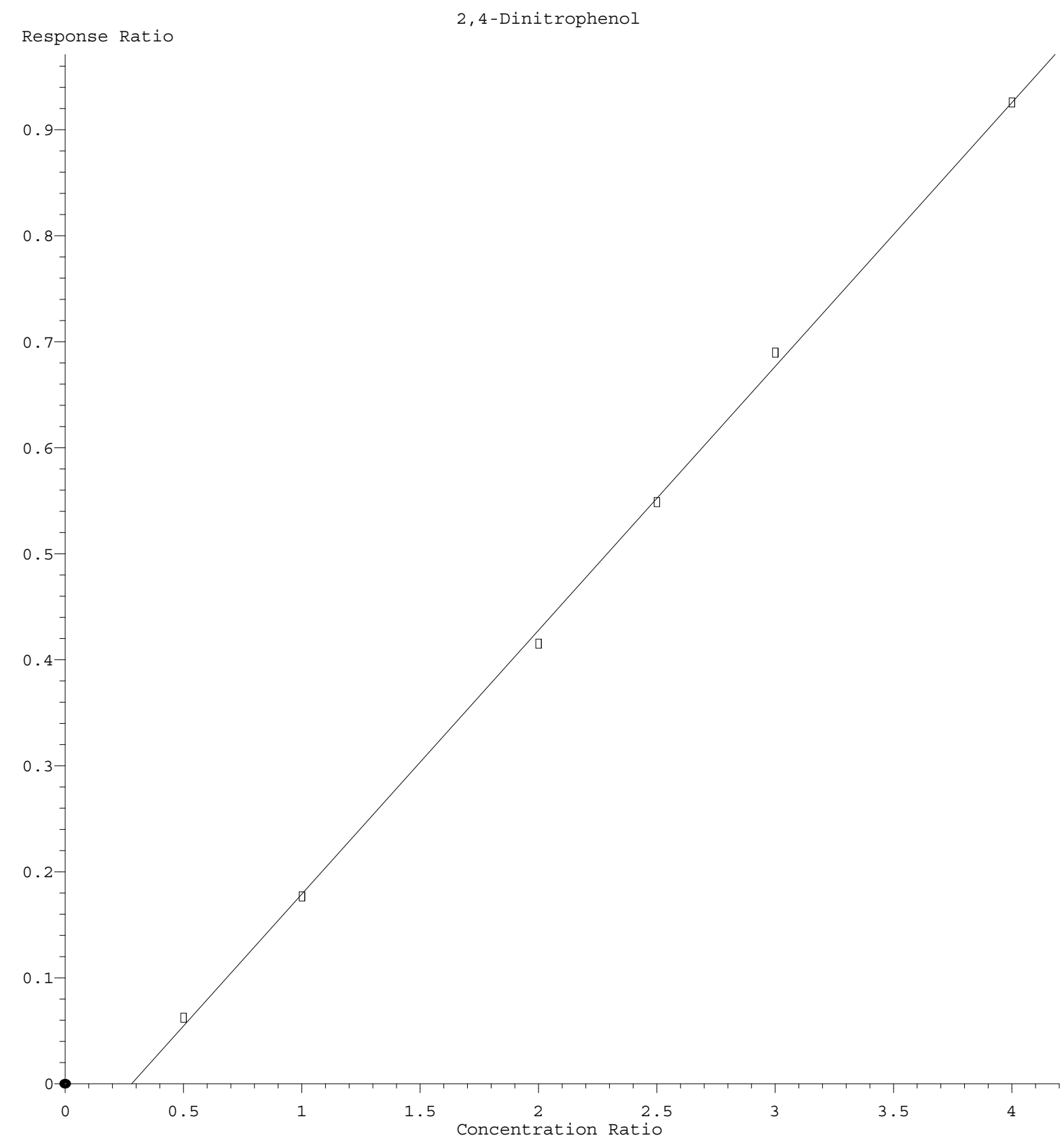
Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.522 | 0.493 | 0.515 | 0.512 | 0.491 | 0.499 | 0.481 | 0.502 | 2.96 |
| 41) | P | Hexachlorocycl... | 0.153 | 0.150 | 0.179 | 0.177 | 0.173 | 0.168 | 0.162 | 0.166 | 6.85 |
| 42) | S | 2,4,6-Tribromo... | 0.329 | 0.341 | 0.358 | 0.366 | 0.355 | 0.359 | 0.346 | 0.351 | 3.59 |
| 43) | C | 2,4,6-Trichlor... | 0.310 | 0.325 | 0.352 | 0.369 | 0.353 | 0.360 | 0.353 | 0.346 | 6.01 |
| 44) | | 2,4,5-Trichlor... | 0.356 | 0.372 | 0.401 | 0.415 | 0.402 | 0.418 | 0.411 | 0.396 | 5.93 |
| 45) | S | 2-Fluorobiphenyl | 1.359 | 1.275 | 1.283 | 1.226 | 1.114 | 1.072 | 0.938 | 1.181 | 12.39 |
| 46) | | 1,1'-Biphenyl | 1.477 | 1.399 | 1.431 | 1.408 | 1.326 | 1.326 | 1.224 | 1.370 | 6.15 |
| 47) | | 2-Chloronaphth... | 1.159 | 1.091 | 1.112 | 1.098 | 1.054 | 1.060 | 1.002 | 1.083 | 4.60 |
| 48) | | 2-Nitroaniline | 0.214 | 0.243 | 0.295 | 0.318 | 0.318 | 0.329 | 0.322 | 0.291 | 15.45 |
| 49) | | Acenaphthylene | 1.613 | 1.605 | 1.656 | 1.677 | 1.586 | 1.597 | 1.473 | 1.601 | 4.07 |
| 50) | | Dimethylphthalate | 1.446 | 1.469 | 1.459 | 1.449 | 1.378 | 1.383 | 1.298 | 1.412 | 4.38 |
| 51) | | 2,6-Dinitrotol... | 0.284 | 0.309 | 0.331 | 0.345 | 0.333 | 0.346 | 0.334 | 0.326 | 6.77 |
| 52) | C | Acenaphthene | 1.120 | 1.080 | 1.073 | 1.075 | 1.016 | 1.017 | 0.936 | 1.045 | 5.79 |
| 53) | | 3-Nitroaniline | 0.266 | 0.296 | 0.342 | 0.357 | 0.347 | 0.345 | 0.315 | 0.324 | 10.25 |
| 54) | P | 2,4-Dinitrophenol | | 0.125 | 0.177 | 0.208 | 0.219 | 0.230 | 0.231 | 0.198 | 20.84 |
| 55) | | Dibenzofuran | 1.828 | 1.739 | 1.721 | 1.695 | 1.604 | 1.608 | 1.468 | 1.666 | 7.02 |
| 56) | P | 4-Nitrophenol | | 0.219 | 0.291 | 0.311 | 0.318 | 0.324 | 0.318 | 0.297 | 13.34 |
| 57) | | 2,4-Dinitrotol... | 0.344 | 0.407 | 0.454 | 0.481 | 0.480 | 0.495 | 0.481 | 0.449 | 12.18 |
| 58) | | Fluorene | 1.490 | 1.450 | 1.446 | 1.453 | 1.354 | 1.342 | 1.222 | 1.394 | 6.71 |
| 59) | | 2,3,4,6-Tetrac... | 0.345 | 0.355 | 0.368 | 0.382 | 0.367 | 0.378 | 0.369 | 0.366 | 3.48 |
| 60) | | Diethylphthalate | 1.499 | 1.532 | 1.560 | 1.535 | 1.456 | 1.427 | 1.327 | 1.477 | 5.47 |
| 61) | | 4-Chlorophenyl... | 0.737 | 0.713 | 0.705 | 0.707 | 0.676 | 0.673 | 0.631 | 0.692 | 5.05 |
| 62) | | 4-Nitroaniline | 0.267 | 0.316 | 0.374 | 0.391 | 0.393 | 0.394 | 0.389 | 0.361 | 13.79 |
| 63) | | Azobenzene | 1.280 | 1.309 | 1.331 | 1.319 | 1.248 | 1.245 | 1.154 | 1.269 | 4.80 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.086 | 0.108 | 0.123 | 0.125 | 0.131 | 0.133 | 0.118 | 15.15 |
| 66) | c | n-Nitrosodiphe... | 0.542 | 0.548 | 0.545 | 0.553 | 0.516 | 0.520 | 0.489 | 0.530 | 4.33 |
| 67) | | 4-Bromophenyl-... | 0.211 | 0.207 | 0.209 | 0.215 | 0.208 | 0.215 | 0.209 | 0.210 | 1.48 |
| 68) | | Hexachlorobenzene | 0.283 | 0.272 | 0.274 | 0.283 | 0.271 | 0.278 | 0.269 | 0.276 | 2.01 |
| 69) | | Atrazine | 0.182 | 0.179 | 0.160 | 0.184 | 0.109 | | | 0.163 | 19.39 |
| 70) | C | Pentachlorophenol | 0.116 | 0.137 | 0.159 | 0.173 | 0.172 | 0.177 | 0.177 | 0.159 | 14.86 |
| 71) | | Phenanthrene | 1.068 | 1.023 | 1.012 | 0.991 | 0.912 | 0.896 | 0.801 | 0.958 | 9.62 |
| 72) | | Anthracene | 1.002 | 0.972 | 0.997 | 0.979 | 0.909 | 0.893 | 0.793 | 0.935 | 8.08 |
| 73) | | Carbazole | 1.010 | 0.987 | 1.033 | 0.995 | 0.939 | 0.914 | 0.820 | 0.957 | 7.62 |
| 74) | | Di-n-butylphth... | 1.018 | 1.088 | 1.221 | 1.136 | 1.058 | 0.985 | 0.867 | 1.053 | 10.73 |
| 75) | C | Fluoranthene | 1.320 | 1.268 | 1.306 | 1.199 | 1.102 | 1.043 | 0.903 | 1.163 | 13.27 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | 0.236 | 0.285 | 0.253 | 0.347 | 0.228 | 0.198 | 0.230 | 0.254 | 19.22 |
| 78) | | Pyrene | 1.176 | 1.206 | 1.184 | 1.174 | 1.052 | 1.016 | 0.890 | 1.100 | 10.69 |
| 79) | S | Terphenyl-d14 | 1.036 | 1.023 | 0.970 | 0.841 | 0.686 | 0.657 | | 0.869 | 19.31 |
| 80) | | Butylbenzylpht... | 0.443 | 0.467 | 0.515 | 0.510 | 0.494 | 0.490 | 0.455 | 0.482 | 5.73 |
| 81) | | Benzo(a)anthra... | 1.277 | 1.238 | 1.243 | 1.174 | 1.047 | 1.010 | 0.879 | 1.124 | 13.18 |
| 82) | | 3,3'-Dichlorob... | 0.404 | 0.438 | 0.470 | 0.481 | 0.450 | 0.444 | 0.396 | 0.440 | 7.11 |
| 83) | | Chrysene | 1.266 | 1.225 | 1.201 | 1.110 | 1.005 | 0.962 | 0.838 | 1.087 | 14.51 |
| 84) | | Bis(2-ethylhex... | 0.550 | 0.608 | 0.705 | 0.698 | 0.672 | 0.659 | 0.591 | 0.641 | 9.15 |
| 85) | c | Di-n-octyl pht... | 0.987 | 1.057 | 1.209 | 1.137 | 1.053 | 1.032 | 0.883 | 1.051 | 9.92 |

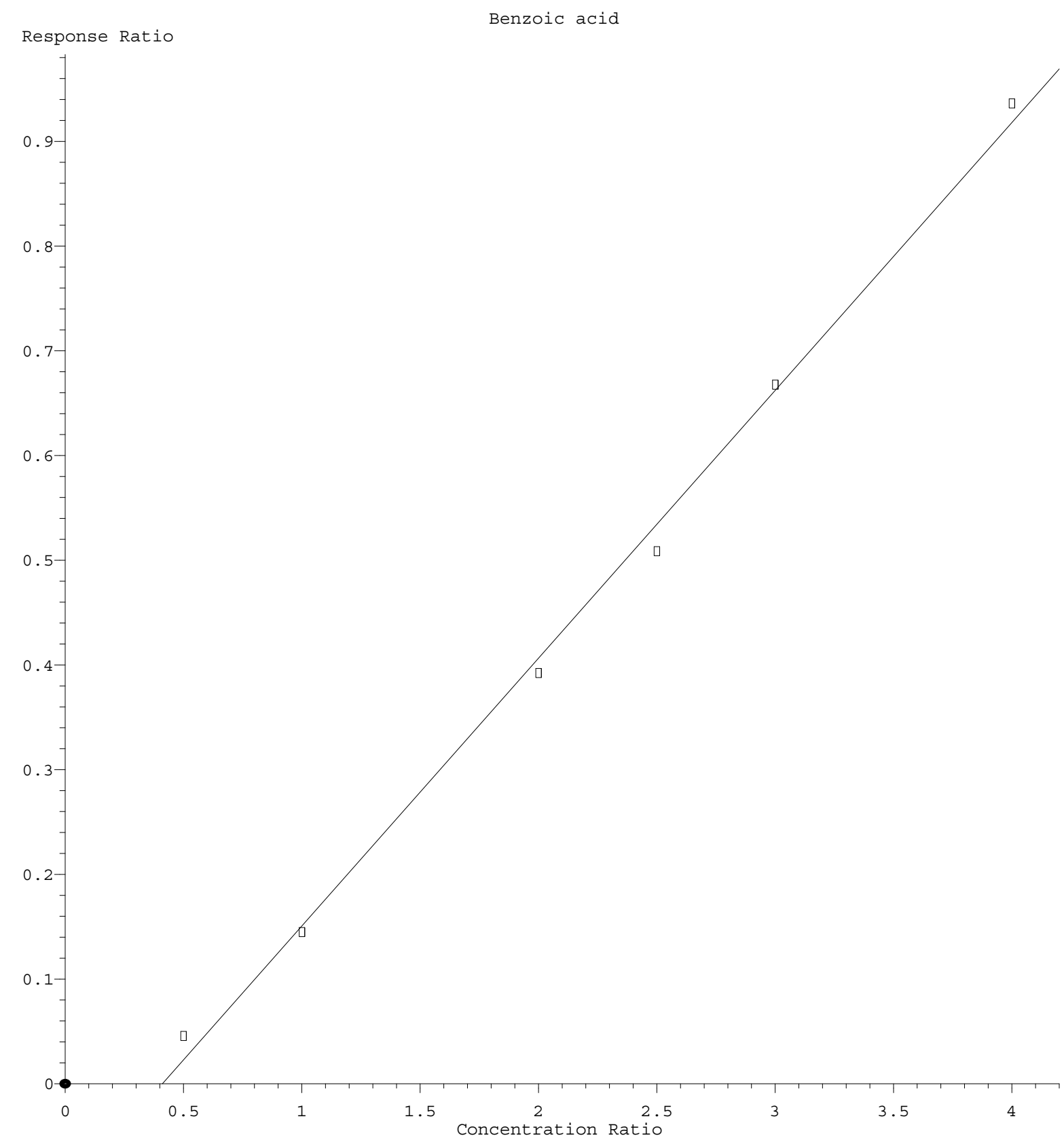
Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.390 | 1.352 | 1.390 | 1.394 | 1.315 | 1.315 | 1.214 | 1.338 | 4.83 |
| 88) | | Benzo(b)fluora... | 1.076 | 1.113 | 1.100 | 1.110 | 1.023 | 1.000 | 0.873 | 1.042 | 8.29 |
| 89) | | Benzo(k)fluora... | 1.126 | 1.042 | 1.087 | 1.015 | 0.897 | 0.875 | 0.774 | 0.974 | 13.13 |
| 90) | C | Benzo(a)pyrene | 0.935 | 0.933 | 0.961 | 0.966 | 0.899 | 0.890 | 0.796 | 0.912 | 6.37 |
| 91) | | Dibenzo(a,h)an... | 1.130 | 1.125 | 1.169 | 1.170 | 1.089 | 1.083 | 0.977 | 1.106 | 6.00 |
| 92) | | Benzo(g,h,i)pe... | 1.162 | 1.130 | 1.155 | 1.179 | 1.125 | 1.152 | 1.075 | 1.140 | 2.98 |

(#) = Out of Range




Response = 2.491e-001 * Amt - 6.995e-002
Coef of Det (r^2) = 0.999215  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA E\Methods\8270-BE102824.M
Calibration Table Last Updated: Tue Oct 29 01:26:30 2024




Response = 2.558e-001 * Amt - 1.051e-001
Coef of Det (r^2) = 0.996743  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA E\Methods\8270-BE102824.M
Calibration Table Last Updated: Tue Oct 29 01:26:30 2024

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101389.D
Acq On : 28 Oct 2024 11:44
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC2.5

Quant Time: Oct 29 00:21:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:20:51 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.572 | 152 | 112211 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 10.339 | 136 | 522612 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 14.182 | 164 | 379442 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 16.920 | 188 | 934130 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 21.079 | 240 | 1119449 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 23.371 | 264 | 1421910 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 0.000 | 112 | 0d | 0.000 | ng | |
| 7) Phenol-d6 | 0.000 | 99 | 0d | 0.000 | ng | |
| 23) Nitrobenzene-d5 | 0.000 | 82 | 0d | 0.000 | ng | |
| 42) 2,4,6-Tribromophenol | 0.000 | 330 | 0d | 0.000 | ng | |
| 45) 2-Fluorobiphenyl | 0.000 | 172 | 0d | 0.000 | ng | |
| 79) Terphenyl-d14 | 0.000 | 244 | 0d | 0.000 | ng | |
| Target Compounds | | | | | | Qvalue |
| 19) n-Nitroso-di-n-propyla... | 8.383 | 70 | 11323 | 1.922 | ng | 99 |

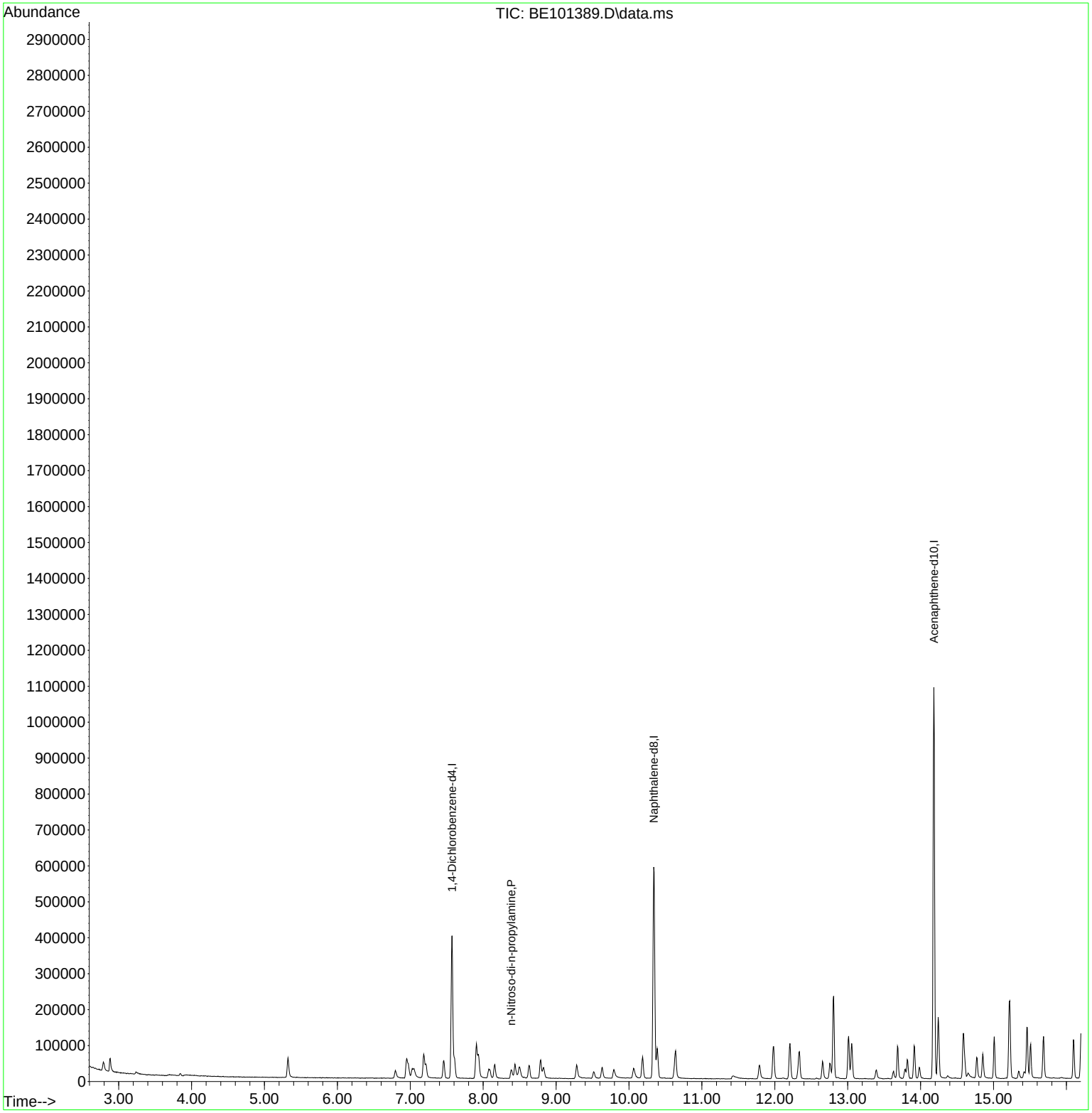
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101389.D
Acq On : 28 Oct 2024 11:44
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC2.5

Quant Time: Oct 29 00:21:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:20:51 2024
Response via : Initial Calibration

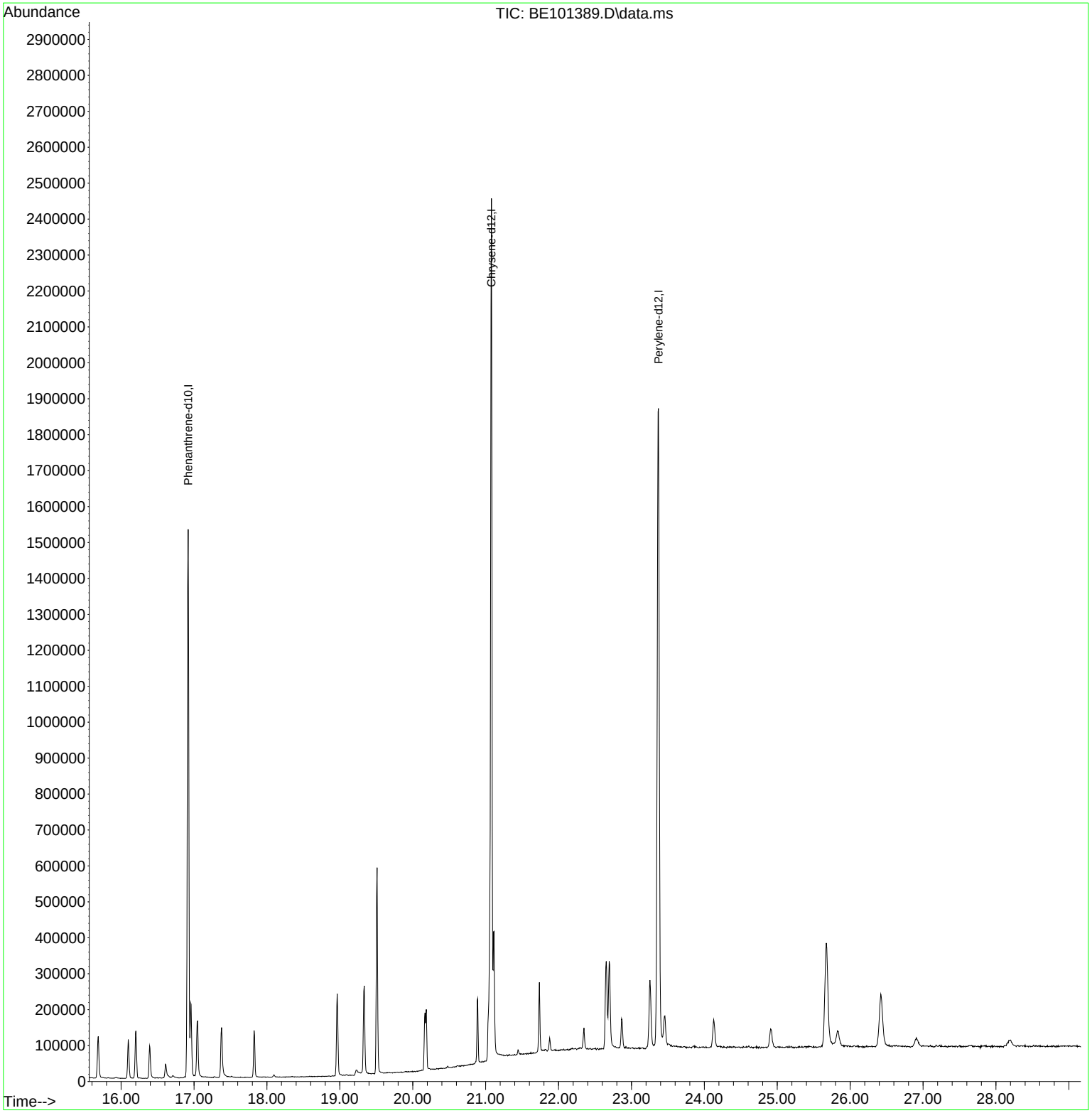


ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101389.D
Acq On : 28 Oct 2024 11:44
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC2.5

Quant Time: Oct 29 00:21:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:20:51 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101390.D
Acq On : 28 Oct 2024 12:23
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:06:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.570 | 152 | 118304 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.337 | 136 | 544178 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 14.180 | 164 | 377798 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 16.918 | 188 | 892142 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 21.078 | 240 | 1100014 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 23.363 | 264 | 1419712 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.320 | 112 | 67080 | 9.938 | ng | | 0.00 |
| 7) Phenol-d6 | 6.947 | 99 | 85753 | 9.162 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 8.786 | 82 | 79382 | 9.162 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.684 | 330 | 62167 | 9.389 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 12.805 | 172 | 256728 | 11.508 | ng | | 0.00 |
| 79) Terphenyl-d14 | 19.509 | 244 | 569888 | 11.924 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.228 | 88 | 13926 | 5.532 | ng | | 92 |
| 3) Pyridine | 3.810 | 79 | 31470m | 4.430 | ng | | |
| 4) n-Nitrosodimethylamine | 3.651 | 42 | 13573m | 4.997 | ng | | |
| 6) Aniline | 7.024 | 93 | 31326 | 4.367 | ng | | 97 |
| 8) 2-Chlorophenol | 7.217 | 128 | 39490 | 4.878 | ng | | 99 |
| 9) Benzaldehyde | 6.794 | 77 | 23443 | 5.189 | ng | | 98 |
| 10) Phenol | 6.971 | 94 | 44021 | 4.335 | ng | | 96 |
| 11) bis(2-Chloroethyl)ether | 7.041 | 93 | 44763m | 5.459 | ng | | |
| 12) 1,3-Dichlorobenzene | 7.458 | 146 | 46227 | 5.295 | ng | | 97 |
| 13) 1,4-Dichlorobenzene | 7.605 | 146 | 48018 | 5.386 | ng | | 97 |
| 14) 1,2-Dichlorobenzene | 7.934 | 146 | 45931 | 5.264 | ng | | 98 |
| 15) Benzyl Alcohol | 7.923 | 79 | 20828 | 3.733 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.081 | 45 | 54415 | 5.190 | ng | | 97 |
| 17) 2-Methylphenol | 8.158 | 107 | 30687 | 4.465 | ng | | 96 |
| 18) Hexachloroethane | 8.628 | 117 | 14712 | 5.054 | ng | | 94 |
| 19) n-Nitroso-di-n-propyla... | 8.381 | 70 | 26623 | 4.287 | ng | | 97 |
| 20) 3+4-Methylphenols | 8.492 | 107 | 40353 | 4.253 | ng | | 97 |
| 22) Acetophenone | 8.434 | 105 | 58143 | 4.706 | ng | # | 98 |
| 24) Nitrobenzene | 8.821 | 77 | 42873 | 4.649 | ng | | 93 |
| 25) Isophorone | 9.280 | 82 | 72478 | 4.287 | ng | | 96 |
| 26) 2-Nitrophenol | 9.515 | 139 | 17266 | 3.874 | ng | | 97 |
| 27) 2,4-Dimethylphenol | 9.626 | 122 | 26611 | 4.745 | ng | | 91 |
| 28) bis(2-Chloroethoxy)met... | 9.785 | 93 | 47763 | 4.658 | ng | | 97 |
| 29) 2,4-Dichlorophenol | 10.061 | 162 | 35022 | 4.514 | ng | | 96 |
| 30) 1,2,4-Trichlorobenzene | 10.185 | 180 | 44208 | 5.230 | ng | | 99 |
| 31) Naphthalene | 10.390 | 128 | 148597 | 5.359 | ng | | 99 |
| 33) 4-Chloroaniline | 10.619 | 127 | 43714 | 4.533 | ng | | 98 |
| 34) Hexachlorobutadiene | 10.637 | 225 | 26263 | 5.249 | ng | | 98 |
| 35) Caprolactam | 11.401 | 113 | 10440m | 3.518 | ng | | |
| 36) 4-Chloro-3-methylphenol | 11.783 | 107 | 37639 | 4.261 | ng | | 97 |
| 37) 2-Methylnaphthalene | 11.977 | 142 | 102472 | 5.129 | ng | | 99 |
| 38) 1-Methylnaphthalene | 12.206 | 142 | 101988 | 5.115 | ng | | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 12.335 | 216 | 49333 | 5.202 | ng | | 98 |
| 41) Hexachlorocyclopentadiene | 12.317 | 237 | 14492 | 4.627 | ng | | 97 |
| 43) 2,4,6-Trichlorophenol | 12.652 | 196 | 29292 | 4.480 | ng | | 98 |
| 44) 2,4,5-Trichlorophenol | 12.752 | 196 | 33625 | 4.491 | ng | | 96 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101390.D
Acq On : 28 Oct 2024 12:23
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:06:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 46) | 1,1'-Biphenyl | 13.011 | 154 | 139541 | 5.391 | ng | | 99 |
| 47) | 2-Chloronaphthalene | 13.052 | 162 | 109485 | 5.354 | ng | | 98 |
| 48) | 2-Nitroaniline | 13.387 | 65 | 20195 | 3.670 | ng | | 89 |
| 49) | Acenaphthylene | 13.910 | 152 | 152325 | 5.037 | ng | | 98 |
| 50) | Dimethylphthalate | 13.680 | 163 | 136570 | 5.121 | ng | | 98 |
| 51) | 2,6-Dinitrotoluene | 13.816 | 165 | 26828 | 4.357 | ng | # | 85 |
| 52) | Acenaphthene | 14.245 | 154 | 105777 | 5.357 | ng | | 99 |
| 53) | 3-Nitroaniline | 14.233 | 138 | 25147 | 4.108 | ng | | 95 |
| 55) | Dibenzofuran | 14.585 | 168 | 172675 | 5.486 | ng | | 97 |
| 57) | 2,4-Dinitrotoluene | 14.603 | 165 | 32467 | 3.830 | ng | # | 85 |
| 58) | Fluorene | 15.220 | 166 | 140698 | 5.344 | ng | | 99 |
| 59) | 2,3,4,6-Tetrachlorophenol | 14.850 | 232 | 32545 | 4.705 | ng | | 100 |
| 60) | Diethylphthalate | 15.008 | 149 | 141540 | 5.074 | ng | | 99 |
| 61) | 4-Chlorophenyl-phenyle... | 15.214 | 204 | 69653 | 5.331 | ng | | 96 |
| 62) | 4-Nitroaniline | 15.414 | 138 | 25247 | 3.706 | ng | | 98 |
| 63) | Azobenzene | 15.508 | 77 | 120875 | 5.041 | ng | | 98 |
| 66) | n-Nitrosodiphenylamine | 15.461 | 169 | 120923 | 5.111 | ng | | 99 |
| 67) | 4-Bromophenyl-phenylether | 16.095 | 248 | 47013 | 5.010 | ng | | 98 |
| 68) | Hexachlorobenzene | 16.201 | 284 | 63030 | 5.124 | ng | | 97 |
| 69) | Atrazine | 16.389 | 200 | 40521 | 5.587 | ng | | 99 |
| 70) | Pentachlorophenol | 16.612 | 266 | 25934 | 3.663 | ng | | 95 |
| 71) | Phenanthrene | 16.959 | 178 | 238149 | 5.575 | ng | | 96 |
| 72) | Anthracene | 17.041 | 178 | 223571 | 5.360 | ng | | 97 |
| 73) | Carbazole | 17.376 | 167 | 225240 | 5.278 | ng | | 98 |
| 74) | Di-n-butylphthalate | 17.823 | 149 | 227063 | 4.833 | ng | | 97 |
| 75) | Fluoranthene | 18.963 | 202 | 294423 | 5.675 | ng | | 96 |
| 77) | Benzidine | 19.221 | 184 | 64981 | 4.654 | ng | | 97 |
| 78) | Pyrene | 19.333 | 202 | 323492 | 5.348 | ng | | 95 |
| 80) | Butylbenzylphthalate | 20.179 | 149 | 121771 | 4.592 | ng | | 97 |
| 81) | Benzo(a)anthracene | 21.054 | 228 | 351110 | 5.679 | ng | | 95 |
| 82) | 3,3'-Dichlorobenzidine | 21.037 | 252 | 111192 | 4.591 | ng | | 99 |
| 83) | Chrysene | 21.113 | 228 | 348272 | 5.826 | ng | | 93 |
| 84) | Bis(2-ethylhexyl)phtha... | 20.884 | 149 | 151249 | 4.293 | ng | # | 96 |
| 85) | Di-n-octyl phthalate | 21.736 | 149 | 271400 | 4.694 | ng | | 99 |
| 87) | Indeno(1,2,3-cd)pyrene | 25.666 | 276 | 493253 | 5.191 | ng | | 99 |
| 88) | Benzo(b)fluoranthene | 22.652 | 252 | 381899 | 5.162 | ng | | 97 |
| 89) | Benzo(k)fluoranthene | 22.693 | 252 | 399794 | 5.782 | ng | | 95 |
| 90) | Benzo(a)pyrene | 23.252 | 252 | 331871 | 5.129 | ng | | 99 |
| 91) | Dibenzo(a,h)anthracene | 25.666 | 278 | 400920 | 5.107 | ng | | 98 |
| 92) | Benzo(g,h,i)perylene | 26.419 | 276 | 412340 | 5.097 | ng | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

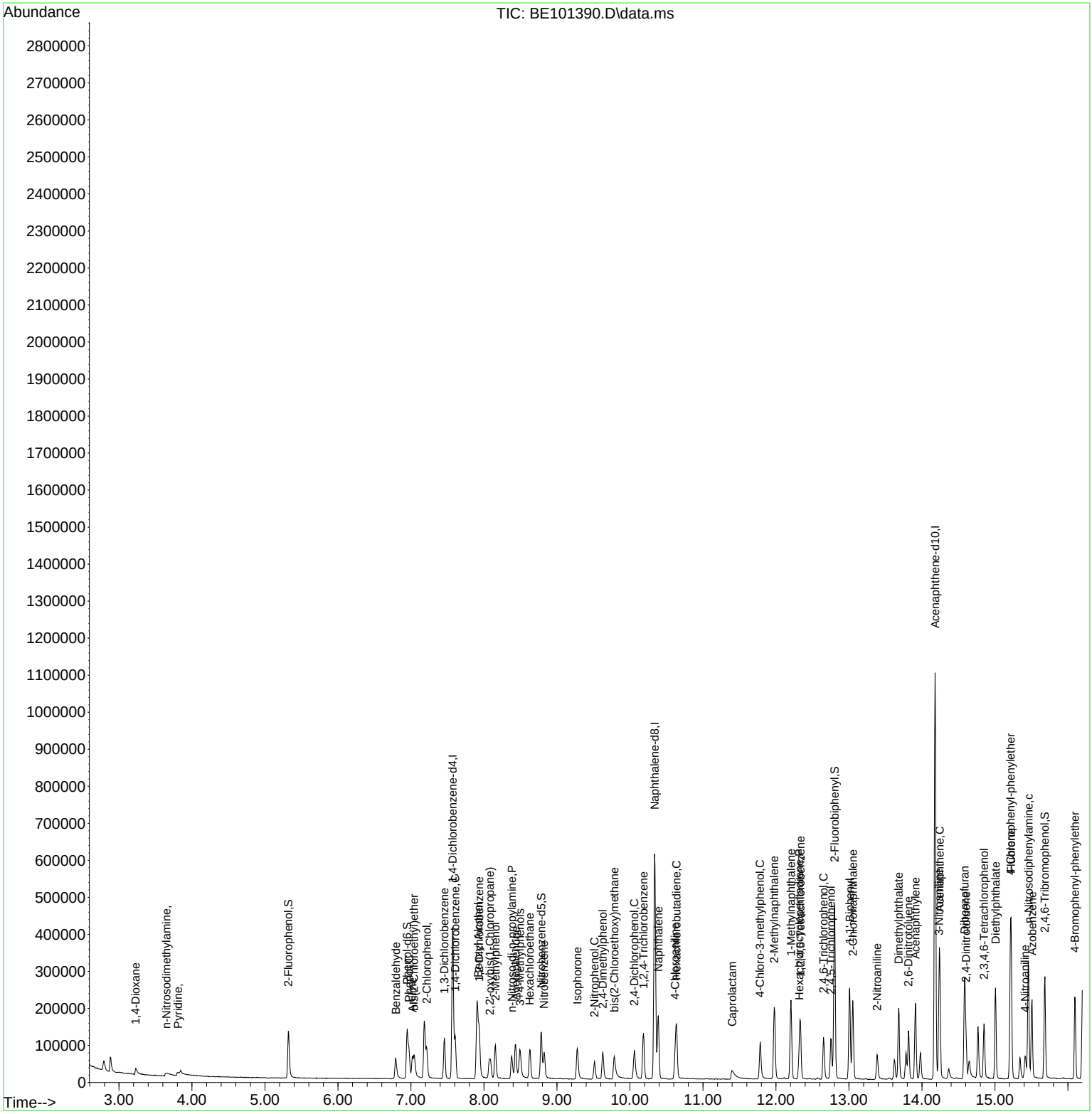
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101390.D
Acq On : 28 Oct 2024 12:23
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 29 01:06:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



ICAL Form

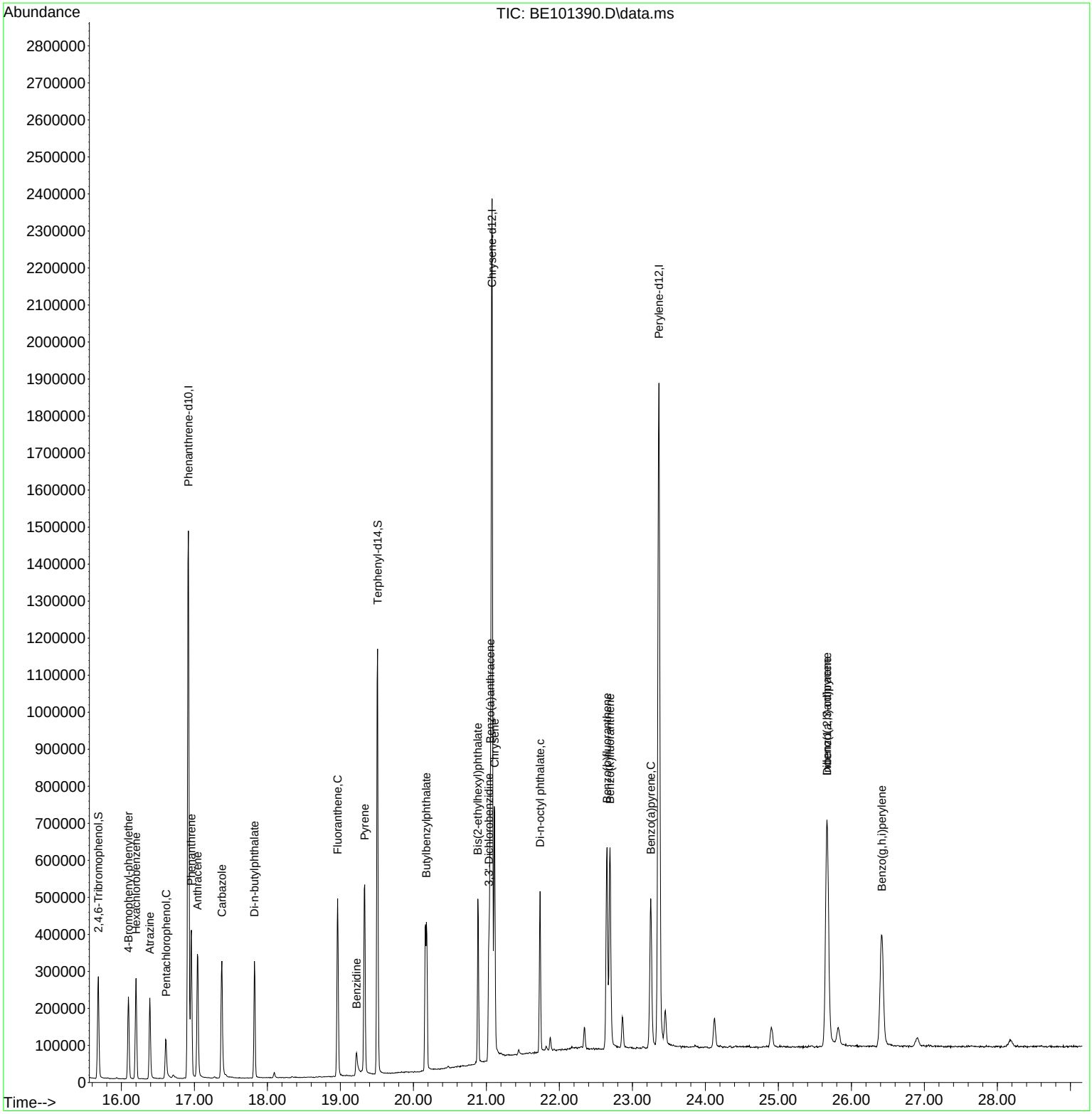
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101390.D
Acq On : 28 Oct 2024 12:23
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 29 01:06:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101391.D
Acq On : 28 Oct 2024 12:59
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:10:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.570 | 152 | 123277 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.337 | 136 | 600604 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 14.180 | 164 | 445637 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 16.918 | 188 | 1029949 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 21.077 | 240 | 1164738 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 23.363 | 264 | 1469277 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.319 | 112 | 132247 | 18.802 | ng | | 0.00 |
| 7) Phenol-d6 | 6.947 | 99 | 181772 | 18.638 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 8.780 | 82 | 183858 | 19.227 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.684 | 330 | 151975 | 19.458 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 12.799 | 172 | 568053 | 21.587 | ng | | 0.00 |
| 79) Terphenyl-d14 | 19.509 | 244 | 1191096 | 23.536 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.222 | 88 | 28561 | 10.887 | ng | | 98 |
| 3) Pyridine | 3.739 | 79 | 69241m | 9.353 | ng | | |
| 4) n-Nitrosodimethylamine | 3.610 | 42 | 27118m | 9.581 | ng | | |
| 6) Aniline | 7.017 | 93 | 77784 | 10.405 | ng | | 99 |
| 8) 2-Chlorophenol | 7.217 | 128 | 80429 | 9.534 | ng | | 99 |
| 9) Benzaldehyde | 6.788 | 77 | 52324 | 11.114 | ng | | 99 |
| 10) Phenol | 6.970 | 94 | 89765 | 8.483 | ng | | 99 |
| 11) bis(2-Chloroethyl)ether | 7.041 | 93 | 86381m | 10.109 | ng | | |
| 12) 1,3-Dichlorobenzene | 7.458 | 146 | 93874 | 10.320 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 7.605 | 146 | 94575 | 10.181 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.934 | 146 | 91740 | 10.089 | ng | | 99 |
| 15) Benzyl Alcohol | 7.916 | 79 | 49118 | 8.449 | ng | | 97 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.081 | 45 | 114453 | 10.477 | ng | | 99 |
| 17) 2-Methylphenol | 8.157 | 107 | 66460 | 9.279 | ng | | 99 |
| 18) Hexachloroethane | 8.627 | 117 | 29936 | 9.868 | ng | | 99 |
| 19) n-Nitroso-di-n-propyla... | 8.375 | 70 | 65315 | 10.092 | ng | | 99 |
| 20) 3+4-Methylphenols | 8.492 | 107 | 92464 | 9.353 | ng | | 96 |
| 22) Acetophenone | 8.427 | 105 | 134367 | 9.853 | ng | # | 100 |
| 24) Nitrobenzene | 8.821 | 77 | 97575 | 9.587 | ng | | 96 |
| 25) Isophorone | 9.274 | 82 | 180427 | 9.669 | ng | | 98 |
| 26) 2-Nitrophenol | 9.509 | 139 | 42252 | 8.589 | ng | | 98 |
| 27) 2,4-Dimethylphenol | 9.626 | 122 | 58143 | 9.393 | ng | | 98 |
| 28) bis(2-Chloroethoxy)met... | 9.779 | 93 | 113421 | 10.023 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 10.061 | 162 | 80383 | 9.387 | ng | | 99 |
| 30) 1,2,4-Trichlorobenzene | 10.184 | 180 | 93335 | 10.005 | ng | | 98 |
| 31) Naphthalene | 10.384 | 128 | 312450 | 10.209 | ng | | 99 |
| 32) Benzoic acid | 9.820 | 122 | 27408m | 11.778 | ng | | |
| 33) 4-Chloroaniline | 10.619 | 127 | 106690 | 10.025 | ng | | 98 |
| 34) Hexachlorobutadiene | 10.637 | 225 | 55578 | 10.065 | ng | | 99 |
| 35) Caprolactam | 11.383 | 113 | 28073m | 8.572 | ng | | |
| 36) 4-Chloro-3-methylphenol | 11.782 | 107 | 94327 | 9.674 | ng | | 99 |
| 37) 2-Methylnaphthalene | 11.976 | 142 | 225679 | 10.235 | ng | | 99 |
| 38) 1-Methylnaphthalene | 12.205 | 142 | 226894 | 10.310 | ng | | 98 |
| 40) 1,2,4,5-Tetrachloroben... | 12.335 | 216 | 109938 | 9.827 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 12.317 | 237 | 33340 | 9.024 | ng | | 99 |
| 43) 2,4,6-Trichlorophenol | 12.652 | 196 | 72470 | 9.397 | ng | | 100 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101391.D
Acq On : 28 Oct 2024 12:59
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:10:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 12.752 | 196 | 82802 | 9.376 | ng | 94 |
| 46) 1,1'-Biphenyl | 13.004 | 154 | 311640 | 10.207 | ng | 99 |
| 47) 2-Chloronaphthalene | 13.051 | 162 | 243180 | 10.081 | ng | 99 |
| 48) 2-Nitroaniline | 13.386 | 65 | 54215 | 8.352 | ng | 95 |
| 49) Acenaphthylene | 13.909 | 152 | 357701 | 10.028 | ng | 99 |
| 50) Dimethylphthalate | 13.680 | 163 | 327215 | 10.402 | ng | 100 |
| 51) 2,6-Dinitrotoluene | 13.821 | 165 | 68910 | 9.489 | ng | 99 |
| 52) Acenaphthene | 14.244 | 154 | 240629 | 10.331 | ng | 99 |
| 53) 3-Nitroaniline | 14.227 | 138 | 65845 | 9.118 | ng | 95 |
| 54) 2,4-Dinitrophenol | 14.362 | 184 | 27748 | 10.616 | ng | 95 |
| 55) Dibenzofuran | 14.585 | 168 | 387518 | 10.438 | ng | 96 |
| 56) 4-Nitrophenol | 14.644 | 139 | 48868 | 7.389 | ng | 98 |
| 57) 2,4-Dinitrotoluene | 14.603 | 165 | 90704 | 9.072 | ng | 91 |
| 58) Fluorene | 15.225 | 166 | 323084 | 10.403 | ng | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 14.849 | 232 | 79118 | 9.696 | ng | 98 |
| 60) Diethylphthalate | 15.008 | 149 | 341401 | 10.376 | ng | 97 |
| 61) 4-Chlorophenyl-phenyle... | 15.208 | 204 | 158792 | 10.303 | ng | 99 |
| 62) 4-Nitroaniline | 15.413 | 138 | 70324 | 8.751 | ng | 100 |
| 63) Azobenzene | 15.507 | 77 | 291559 | 10.309 | ng | 99 |
| 65) 4,6-Dinitro-2-methylph... | 15.343 | 198 | 44302 | 7.320 | ng | 97 |
| 66) n-Nitrosodiphenylamine | 15.460 | 169 | 281980 | 10.324 | ng | 99 |
| 67) 4-Bromophenyl-phenylether | 16.101 | 248 | 106361 | 9.817 | ng | 96 |
| 68) Hexachlorobenzene | 16.201 | 284 | 140149 | 9.869 | ng | 99 |
| 69) Atrazine | 16.389 | 200 | 92105 | 10.999 | ng | 99 |
| 70) Pentachlorophenol | 16.606 | 266 | 70444 | 8.618 | ng | 99 |
| 71) Phenanthrene | 16.959 | 178 | 526649 | 10.680 | ng | 97 |
| 72) Anthracene | 17.041 | 178 | 500622 | 10.397 | ng | 98 |
| 73) Carbazole | 17.376 | 167 | 508330 | 10.318 | ng | 97 |
| 74) Di-n-butylphthalate | 17.822 | 149 | 560519 | 10.334 | ng | 97 |
| 75) Fluoranthene | 18.962 | 202 | 652809 | 10.899 | ng | 95 |
| 77) Benzidine | 19.221 | 184 | 166063 | 11.234 | ng | 100 |
| 78) Pyrene | 19.332 | 202 | 702205 | 10.963 | ng | 95 |
| 80) Butylbenzylphthalate | 20.184 | 149 | 272190 | 9.694 | ng | 99 |
| 81) Benzo(a)anthracene | 21.054 | 228 | 721011 | 11.014 | ng | 95 |
| 82) 3,3'-Dichlorobenzidine | 21.036 | 252 | 255324 | 9.956 | ng | 97 |
| 83) Chrysene | 21.113 | 228 | 713680 | 11.275 | ng | 93 |
| 84) Bis(2-ethylhexyl)phtha... | 20.889 | 149 | 354141 | 9.494 | ng | 96 |
| 85) Di-n-octyl phthalate | 21.735 | 149 | 615621 | 10.055 | ng | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 25.672 | 276 | 993383 | 10.102 | ng | 99 |
| 88) Benzo(b)fluoranthene | 22.652 | 252 | 817483 | 10.676 | ng | 97 |
| 89) Benzo(k)fluoranthene | 22.693 | 252 | 765639 | 10.700 | ng | 96 |
| 90) Benzo(a)pyrene | 23.251 | 252 | 685242 | 10.233 | ng | 98 |
| 91) Dibenzo(a,h)anthracene | 25.672 | 278 | 826199 | 10.169 | ng | 98 |
| 92) Benzo(g,h,i)perylene | 26.424 | 276 | 830134 | 9.916 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

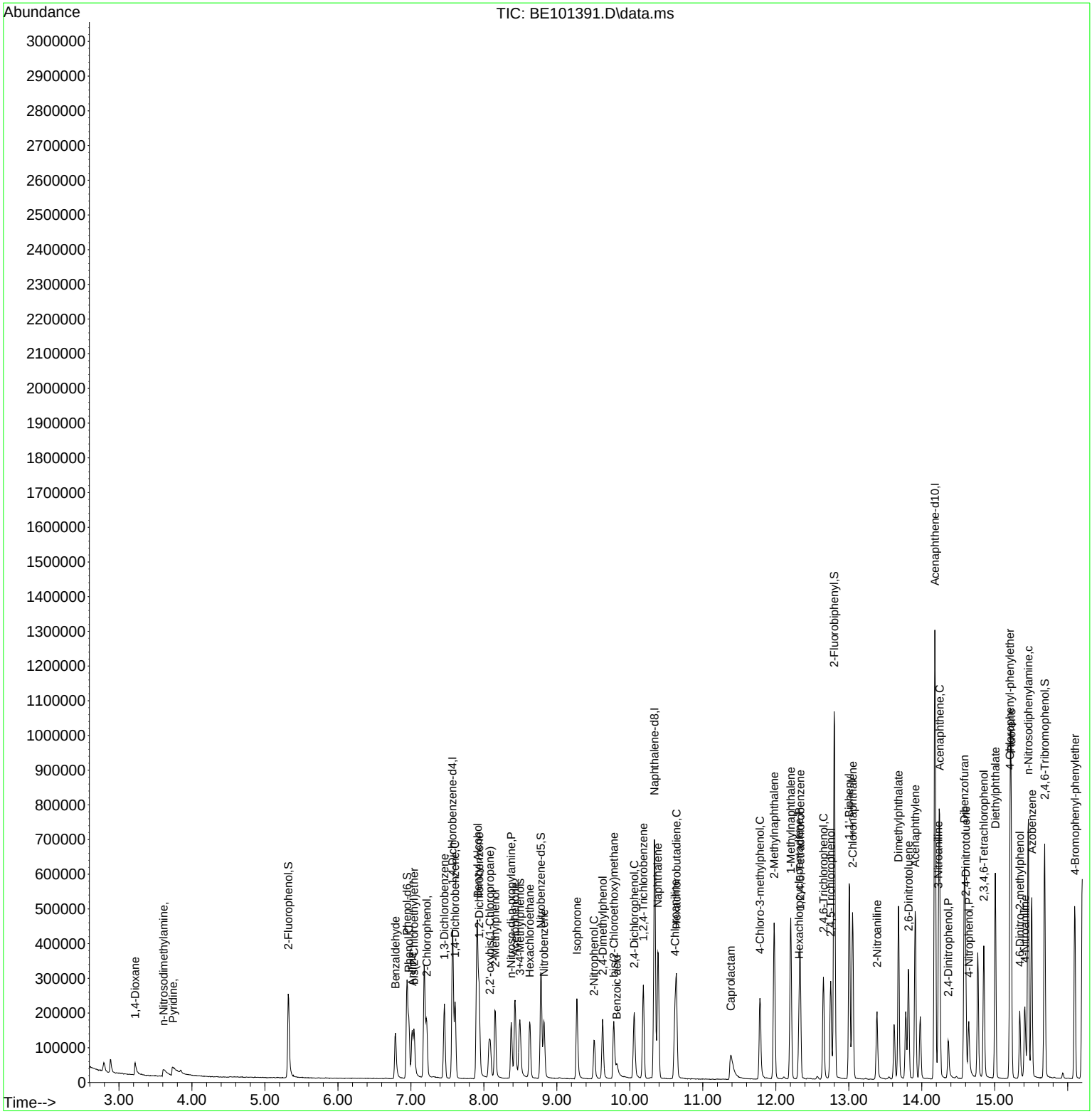
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101391.D
Acq On : 28 Oct 2024 12:59
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 01:10:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



ICAL Form

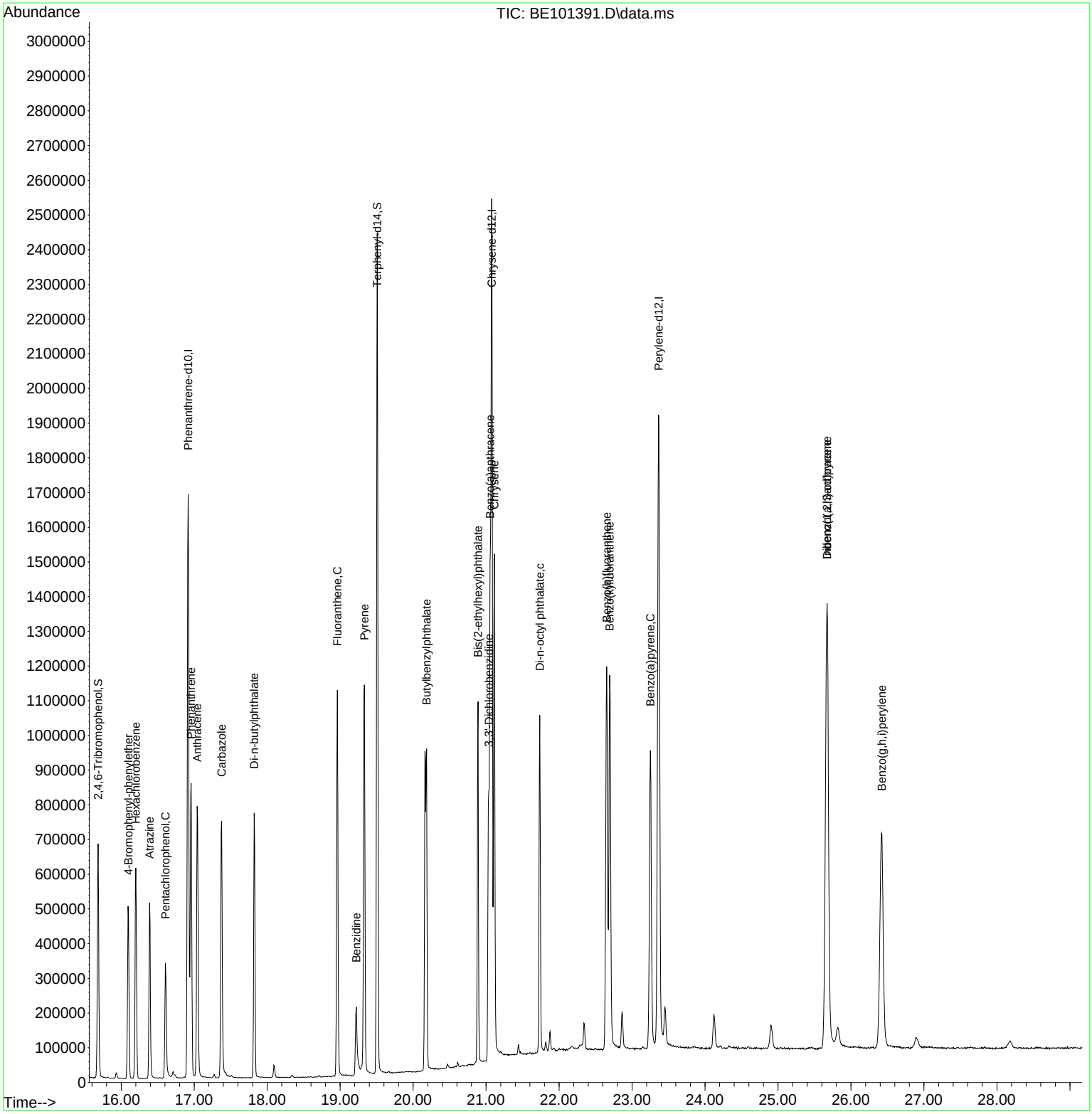
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101391.D
Acq On : 28 Oct 2024 12:59
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 01:10:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101392.D
Acq On : 28 Oct 2024 13:35
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC020

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:12:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.570 | 152 | 145458 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.337 | 136 | 690816 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 14.180 | 164 | 479983 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 16.918 | 188 | 1115787 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 21.077 | 240 | 1323325 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 23.363 | 264 | 1671032 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.319 | 112 | 332292 | 40.039 | ng | | 0.00 |
| 7) Phenol-d6 | 6.947 | 99 | 453347 | 39.395 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 8.780 | 82 | 449694 | 40.886 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.684 | 330 | 343535 | 40.836 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 12.805 | 172 | 1231577 | 43.454 | ng | | 0.00 |
| 79) Terphenyl-d14 | 19.509 | 244 | 2568344 | 44.669 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.210 | 88 | 66062 | 21.342 | ng | | 99 |
| 3) Pyridine | 3.668 | 79 | 182576m | 20.901 | ng | | |
| 4) n-Nitrosodimethylamine | 3.574 | 42 | 66090 | 19.790 | ng | | 95 |
| 6) Aniline | 7.011 | 93 | 222406 | 25.214 | ng | | 99 |
| 8) 2-Chlorophenol | 7.211 | 128 | 199440 | 20.036 | ng | | 97 |
| 9) Benzaldehyde | 6.782 | 77 | 125233 | 22.543 | ng | | 98 |
| 10) Phenol | 6.970 | 94 | 256916 | 20.576 | ng | | 99 |
| 11) bis(2-Chloroethyl)ether | 7.041 | 93 | 181038m | 17.956 | ng | | |
| 12) 1,3-Dichlorobenzene | 7.458 | 146 | 219349 | 20.436 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 7.605 | 146 | 224941 | 20.522 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.934 | 146 | 218470 | 20.363 | ng | | 99 |
| 15) Benzyl Alcohol | 7.910 | 79 | 142372 | 20.755 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.081 | 45 | 264164 | 20.493 | ng | | 99 |
| 17) 2-Methylphenol | 8.151 | 107 | 166175 | 19.664 | ng | | 99 |
| 18) Hexachloroethane | 8.627 | 117 | 71637 | 20.014 | ng | | 99 |
| 19) n-Nitroso-di-n-propyla... | 8.375 | 70 | 157181 | 20.583 | ng | | 97 |
| 20) 3+4-Methylphenols | 8.492 | 107 | 229815 | 19.701 | ng | | 99 |
| 22) Acetophenone | 8.422 | 105 | 322339 | 20.550 | ng | # | 99 |
| 24) Nitrobenzene | 8.821 | 77 | 241129 | 20.598 | ng | | 99 |
| 25) Isophorone | 9.274 | 82 | 431209 | 20.091 | ng | | 99 |
| 26) 2-Nitrophenol | 9.509 | 139 | 111783 | 19.757 | ng | | 98 |
| 27) 2,4-Dimethylphenol | 9.626 | 122 | 142884 | 20.069 | ng | | 98 |
| 28) bis(2-Chloroethoxy)met... | 9.779 | 93 | 268211 | 20.606 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 10.055 | 162 | 196882 | 19.989 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 10.184 | 180 | 217666 | 20.286 | ng | | 100 |
| 31) Naphthalene | 10.384 | 128 | 718052 | 20.397 | ng | | 100 |
| 32) Benzoic acid | 9.855 | 122 | 100073 | 19.536 | ng | | 98 |
| 33) 4-Chloroaniline | 10.613 | 127 | 257549 | 21.039 | ng | | 99 |
| 34) Hexachlorobutadiene | 10.637 | 225 | 129221 | 20.346 | ng | | 98 |
| 35) Caprolactam | 11.377 | 113 | 75252 | 19.977 | ng | | 99 |
| 36) 4-Chloro-3-methylphenol | 11.782 | 107 | 221443 | 19.746 | ng | | 99 |
| 37) 2-Methylnaphthalene | 11.976 | 142 | 508710 | 20.058 | ng | | 99 |
| 38) 1-Methylnaphthalene | 12.205 | 142 | 507973 | 20.068 | ng | | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 12.335 | 216 | 247246 | 20.520 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 12.317 | 237 | 85787 | 21.558 | ng | | 98 |
| 43) 2,4,6-Trichlorophenol | 12.652 | 196 | 168870 | 20.330 | ng | | 98 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101392.D
Acq On : 28 Oct 2024 13:35
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC020

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:12:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 12.752 | 196 | 192619 | 20.249 | ng | | 98 |
| 46) 1,1'-Biphenyl | 13.010 | 154 | 686936 | 20.889 | ng | | 99 |
| 47) 2-Chloronaphthalene | 13.051 | 162 | 533907 | 20.550 | ng | | 99 |
| 48) 2-Nitroaniline | 13.386 | 65 | 141408 | 20.225 | ng | | 98 |
| 49) Acenaphthylene | 13.909 | 152 | 794820 | 20.687 | ng | | 99 |
| 50) Dimethylphthalate | 13.686 | 163 | 700286 | 20.669 | ng | | 98 |
| 51) 2,6-Dinitrotoluene | 13.821 | 165 | 158798 | 20.301 | ng | | 100 |
| 52) Acenaphthene | 14.244 | 154 | 514942 | 20.525 | ng | | 99 |
| 53) 3-Nitroaniline | 14.227 | 138 | 164280 | 21.121 | ng | | 98 |
| 54) 2,4-Dinitrophenol | 14.362 | 184 | 84815 | 19.805 | ng | | 96 |
| 55) Dibenzofuran | 14.585 | 168 | 826067 | 20.659 | ng | | 99 |
| 56) 4-Nitrophenol | 14.644 | 139 | 139762 | 19.622 | ng | | 99 |
| 57) 2,4-Dinitrotoluene | 14.603 | 165 | 217872 | 20.231 | ng | | 95 |
| 58) Fluorene | 15.225 | 166 | 694099 | 20.750 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 14.849 | 232 | 176736 | 20.109 | ng | | 100 |
| 60) Diethylphthalate | 15.008 | 149 | 748812 | 21.130 | ng | | 98 |
| 61) 4-Chlorophenyl-phenyle... | 15.214 | 204 | 338586 | 20.398 | ng | | 98 |
| 62) 4-Nitroaniline | 15.413 | 138 | 179670 | 20.759 | ng | | 99 |
| 63) Azobenzene | 15.507 | 77 | 638899 | 20.974 | ng | | 99 |
| 65) 4,6-Dinitro-2-methylph... | 15.343 | 198 | 120025 | 18.306 | ng | | 95 |
| 66) n-Nitrosodiphenylamine | 15.460 | 169 | 608131 | 20.552 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 16.095 | 248 | 233542 | 19.898 | ng | | 99 |
| 68) Hexachlorobenzene | 16.201 | 284 | 305632 | 19.866 | ng | | 99 |
| 69) Atrazine | 16.395 | 200 | 178560 | 19.684 | ng | | 99 |
| 70) Pentachlorophenol | 16.606 | 266 | 177362 | 20.028 | ng | | 98 |
| 71) Phenanthrene | 16.959 | 178 | 1129442 | 21.142 | ng | | 98 |
| 72) Anthracene | 17.047 | 178 | 1112275 | 21.323 | ng | | 97 |
| 73) Carbazole | 17.376 | 167 | 1152191 | 21.587 | ng | | 97 |
| 74) Di-n-butylphthalate | 17.822 | 149 | 1361839 | 23.177 | ng | | 98 |
| 75) Fluoranthene | 18.962 | 202 | 1457689 | 22.465 | ng | | 96 |
| 77) Benzidine | 19.221 | 184 | 334865 | 19.938 | ng | | 100 |
| 78) Pyrene | 19.332 | 202 | 1566914 | 21.532 | ng | | 96 |
| 80) Butylbenzylphthalate | 20.184 | 149 | 682078 | 21.380 | ng | | 99 |
| 81) Benzo(a)anthracene | 21.054 | 228 | 1645151 | 22.118 | ng | | 97 |
| 82) 3,3'-Dichlorobenzidine | 21.036 | 252 | 621432 | 21.328 | ng | | 100 |
| 83) Chrysene | 21.113 | 228 | 1589960 | 22.109 | ng | | 95 |
| 84) Bis(2-ethylhexyl)phtha... | 20.883 | 149 | 933369 | 22.023 | ng | # | 97 |
| 85) Di-n-octyl phthalate | 21.735 | 149 | 1600302 | 23.006 | ng | | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 25.684 | 276 | 2323311 | 20.775 | ng | | 99 |
| 88) Benzo(b)fluoranthene | 22.652 | 252 | 1838727 | 21.114 | ng | | 98 |
| 89) Benzo(k)fluoranthene | 22.699 | 252 | 1816446 | 22.320 | ng | | 97 |
| 90) Benzo(a)pyrene | 23.251 | 252 | 1606453 | 21.093 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 25.678 | 278 | 1953695 | 21.142 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 26.430 | 276 | 1930120 | 20.272 | ng | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

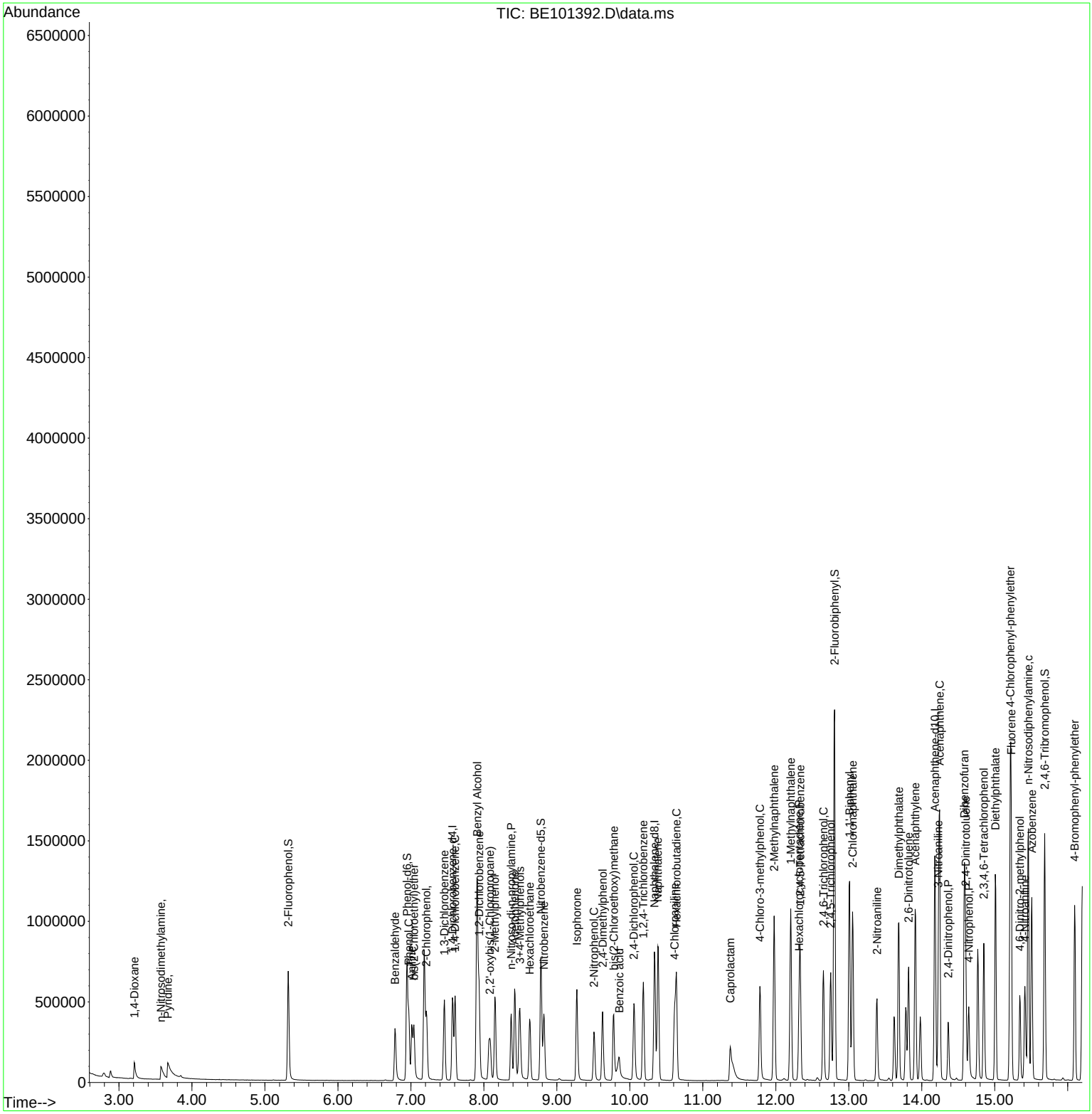
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101392.D
Acq On : 28 Oct 2024 13:35
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 29 01:12:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



ICAL Form

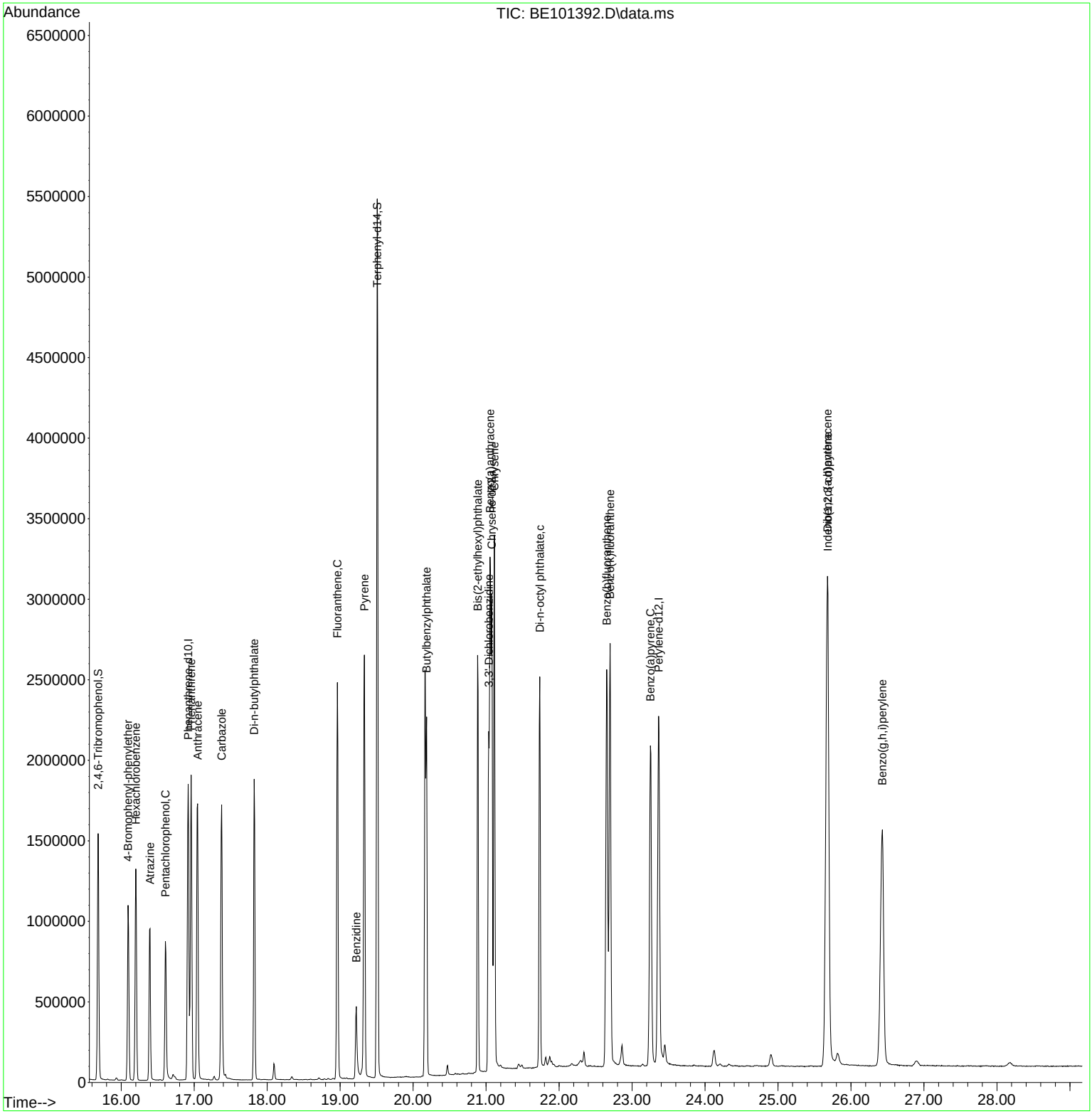
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101392.D
Acq On : 28 Oct 2024 13:35
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 29 01:12:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101393.D
Acq On : 28 Oct 2024 14:11
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:15:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.570 | 152 | 140927 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.338 | 136 | 679661 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 14.180 | 164 | 489939 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 16.918 | 188 | 1121583 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 21.078 | 240 | 1213932 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 23.364 | 264 | 1508729 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.320 | 112 | 650130 | 80.855 | ng | | 0.00 |
| 7) Phenol-d6 | 6.948 | 99 | 918108 | 82.347 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 8.787 | 82 | 912254 | 84.304 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.690 | 330 | 716957 | 83.493 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 12.806 | 172 | 2403552 | 83.082 | ng | | 0.00 |
| 79) Terphenyl-d14 | 19.515 | 244 | 4083553 | 77.422 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.205 | 88 | 118661 | 39.567 | ng | | 100 |
| 3) Pyridine | 3.640 | 79 | 337051m | 39.826 | ng | | |
| 4) n-Nitrosodimethylamine | 3.558 | 42 | 134976 | 41.716 | ng | | 100 |
| 6) Aniline | 7.012 | 93 | 379442 | 44.400 | ng | | 100 |
| 8) 2-Chlorophenol | 7.218 | 128 | 395579 | 41.018 | ng | | 100 |
| 9) Benzaldehyde | 6.783 | 77 | 227485 | 42.266 | ng | | 100 |
| 10) Phenol | 6.971 | 94 | 514695 | 42.547 | ng | | 100 |
| 11) bis(2-Chloroethyl)ether | 7.042 | 93 | 416211m | 42.609 | ng | | |
| 12) 1,3-Dichlorobenzene | 7.459 | 146 | 419357 | 40.326 | ng | | 100 |
| 13) 1,4-Dichlorobenzene | 7.606 | 146 | 424205 | 39.946 | ng | | 100 |
| 14) 1,2-Dichlorobenzene | 7.935 | 146 | 420089 | 40.414 | ng | | 100 |
| 15) Benzyl Alcohol | 7.911 | 79 | 298943 | 44.982 | ng | | 100 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.082 | 45 | 505709 | 40.493 | ng | | 100 |
| 17) 2-Methylphenol | 8.152 | 107 | 342890 | 41.880 | ng | | 100 |
| 18) Hexachloroethane | 8.628 | 117 | 140004 | 40.371 | ng | | 100 |
| 19) n-Nitroso-di-n-propyla... | 8.375 | 70 | 324267 | 43.828 | ng | | 100 |
| 20) 3+4-Methylphenols | 8.493 | 107 | 474897 | 42.020 | ng | | 100 |
| 22) Acetophenone | 8.422 | 105 | 653526 | 42.348 | ng | # | 100 |
| 24) Nitrobenzene | 8.822 | 77 | 482597 | 41.902 | ng | | 100 |
| 25) Isophorone | 9.274 | 82 | 904319 | 42.826 | ng | | 100 |
| 26) 2-Nitrophenol | 9.509 | 139 | 243096 | 43.670 | ng | | 100 |
| 27) 2,4-Dimethylphenol | 9.627 | 122 | 292733 | 41.791 | ng | | 100 |
| 28) bis(2-Chloroethoxy)met... | 9.774 | 93 | 532628 | 41.593 | ng | | 100 |
| 29) 2,4-Dichlorophenol | 10.062 | 162 | 404330 | 41.724 | ng | | 100 |
| 30) 1,2,4-Trichlorobenzene | 10.185 | 180 | 426450 | 40.396 | ng | | 100 |
| 31) Naphthalene | 10.391 | 128 | 1420283 | 41.007 | ng | | 100 |
| 32) Benzoic acid | 9.891 | 122 | 266609 | 38.880 | ng | | 100 |
| 33) 4-Chloroaniline | 10.614 | 127 | 540332 | 44.864 | ng | | 100 |
| 34) Hexachlorobutadiene | 10.637 | 225 | 254804 | 40.777 | ng | | 100 |
| 35) Caprolactam | 11.395 | 113 | 161584 | 43.600 | ng | | 100 |
| 36) 4-Chloro-3-methylphenol | 11.789 | 107 | 463319 | 41.991 | ng | | 100 |
| 37) 2-Methylnaphthalene | 11.977 | 142 | 1027397 | 41.174 | ng | | 100 |
| 38) 1-Methylnaphthalene | 12.206 | 142 | 1021245 | 41.008 | ng | | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 12.335 | 216 | 501796 | 40.799 | ng | | 100 |
| 41) Hexachlorocyclopentadiene | 12.318 | 237 | 173373 | 42.682 | ng | | 100 |
| 43) 2,4,6-Trichlorophenol | 12.653 | 196 | 361676 | 42.656 | ng | | 100 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101393.D
Acq On : 28 Oct 2024 14:11
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 29 01:15:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 12.753 | 196 | 406209 | 41.835 | ng | 100 |
| 46) 1,1'-Biphenyl | 13.011 | 154 | 1379396 | 41.094 | ng | 100 |
| 47) 2-Chloronaphthalene | 13.058 | 162 | 1076232 | 40.583 | ng | 100 |
| 48) 2-Nitroaniline | 13.387 | 65 | 311763 | 43.683 | ng | 100 |
| 49) Acenaphthylene | 13.916 | 152 | 1642781 | 41.889 | ng | 100 |
| 50) Dimethylphthalate | 13.687 | 163 | 1420279 | 41.068 | ng | 100 |
| 51) 2,6-Dinitrotoluene | 13.822 | 165 | 338334 | 42.374 | ng | 100 |
| 52) Acenaphthene | 14.245 | 154 | 1053741 | 41.148 | ng | 100 |
| 53) 3-Nitroaniline | 14.233 | 138 | 349479 | 44.018 | ng | 100 |
| 54) 2,4-Dinitrophenol | 14.368 | 184 | 203414 | 38.955 | ng | 100 |
| 55) Dibenzofuran | 14.586 | 168 | 1660539 | 40.683 | ng | 100 |
| 56) 4-Nitrophenol | 14.650 | 139 | 305078 | 41.960 | ng | 100 |
| 57) 2,4-Dinitrotoluene | 14.609 | 165 | 471064 | 42.854 | ng | 100 |
| 58) Fluorene | 15.226 | 166 | 1424112 | 41.708 | ng | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 14.856 | 232 | 373847 | 41.672 | ng | 100 |
| 60) Diethylphthalate | 15.015 | 149 | 1504066 | 41.579 | ng | 100 |
| 61) 4-Chlorophenyl-phenyle... | 15.214 | 204 | 692996 | 40.900 | ng | 100 |
| 62) 4-Nitroaniline | 15.420 | 138 | 383097 | 43.363 | ng | 100 |
| 63) Azobenzene | 15.508 | 77 | 1292104 | 41.556 | ng | 100 |
| 65) 4,6-Dinitro-2-methylph... | 15.350 | 198 | 276529 | 41.958 | ng | 100 |
| 66) n-Nitrosodiphenylamine | 15.461 | 169 | 1239699 | 41.680 | ng | 100 |
| 67) 4-Bromophenyl-phenylether | 16.096 | 248 | 481170 | 40.783 | ng | 100 |
| 68) Hexachlorobenzene | 16.202 | 284 | 634376 | 41.021 | ng | 100 |
| 69) Atrazine | 16.395 | 200 | 412016 | 45.184 | ng | 100 |
| 70) Pentachlorophenol | 16.613 | 266 | 387503 | 43.532 | ng | 100 |
| 71) Phenanthrene | 16.959 | 178 | 2223827 | 41.412 | ng | 100 |
| 72) Anthracene | 17.048 | 178 | 2195533 | 41.871 | ng | 100 |
| 73) Carbazole | 17.377 | 167 | 2231136 | 41.586 | ng | 100 |
| 74) Di-n-butylphthalate | 17.823 | 149 | 2547547 | 43.131 | ng | 100 |
| 75) Fluoranthene | 18.963 | 202 | 2689073 | 41.229 | ng | 100 |
| 77) Benzidine | 19.222 | 184 | 841414 | 54.613 | ng | 100 |
| 78) Pyrene | 19.333 | 202 | 2851171 | 42.710 | ng | 100 |
| 80) Butylbenzylphthalate | 20.185 | 149 | 1239396 | 42.350 | ng | 100 |
| 81) Benzo(a)anthracene | 21.061 | 228 | 2850546 | 41.778 | ng | 100 |
| 82) 3,3'-Dichlorobenzidine | 21.037 | 252 | 1167475 | 43.680 | ng | 100 |
| 83) Chrysene | 21.113 | 228 | 2694174 | 40.839 | ng | 100 |
| 84) Bis(2-ethylhexyl)phtha... | 20.890 | 149 | 1695435 | 43.609 | ng | 100 |
| 85) Di-n-octyl phthalate | 21.736 | 149 | 2761437 | 43.276 | ng | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 25.696 | 276 | 4204842 | 41.644 | ng | 100 |
| 88) Benzo(b)fluoranthene | 22.659 | 252 | 3350839 | 42.618 | ng | 100 |
| 89) Benzo(k)fluoranthene | 22.706 | 252 | 3062296 | 41.677 | ng | 100 |
| 90) Benzo(a)pyrene | 23.258 | 252 | 2913742 | 42.374 | ng | 100 |
| 91) Dibenzo(a,h)anthracene | 25.690 | 278 | 3529480 | 42.304 | ng | 100 |
| 92) Benzo(g,h,i)perylene | 26.442 | 276 | 3556297 | 41.369 | ng | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

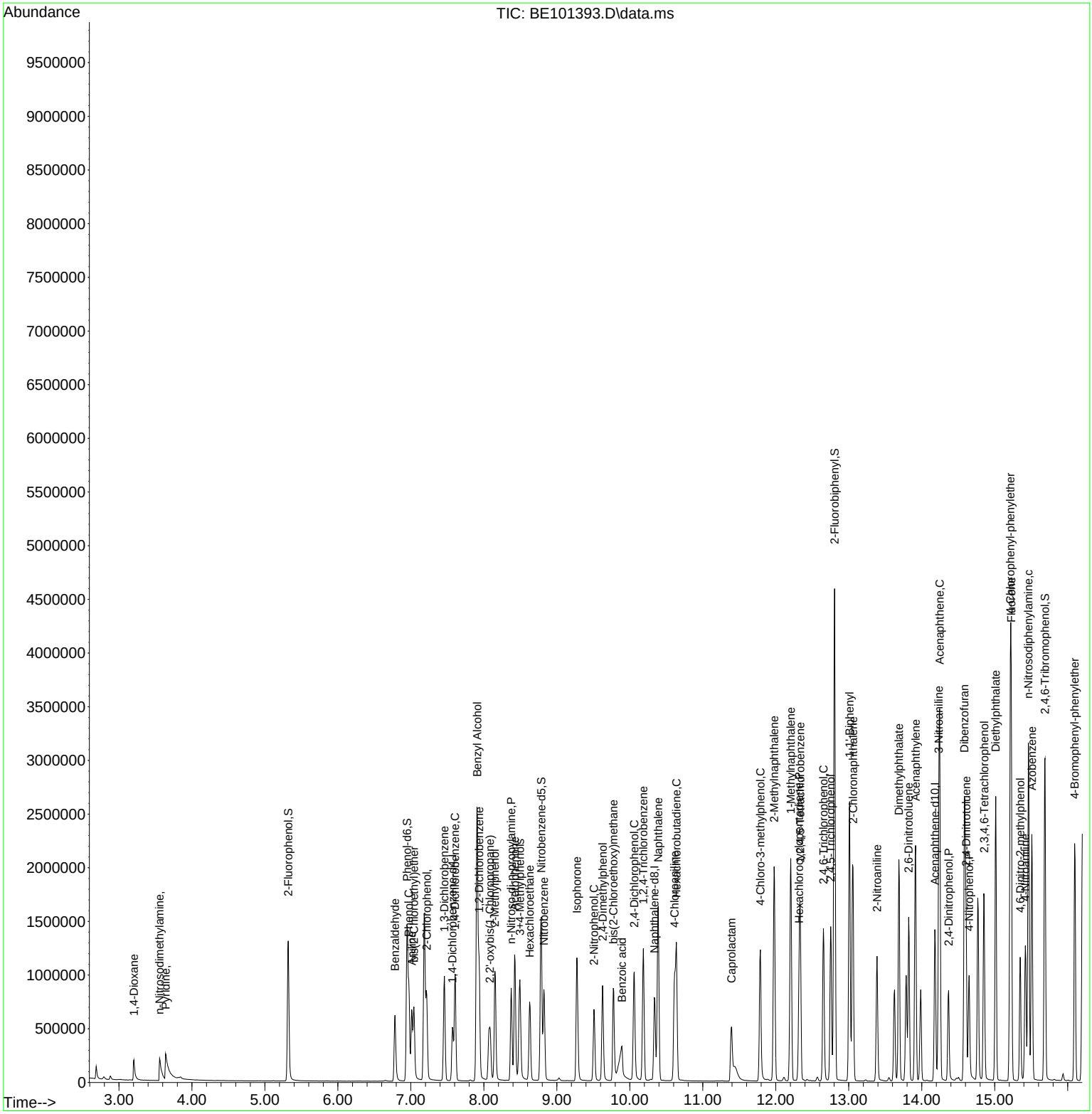
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101393.D
Acq On : 28 Oct 2024 14:11
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 29 01:15:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



ICAL Form

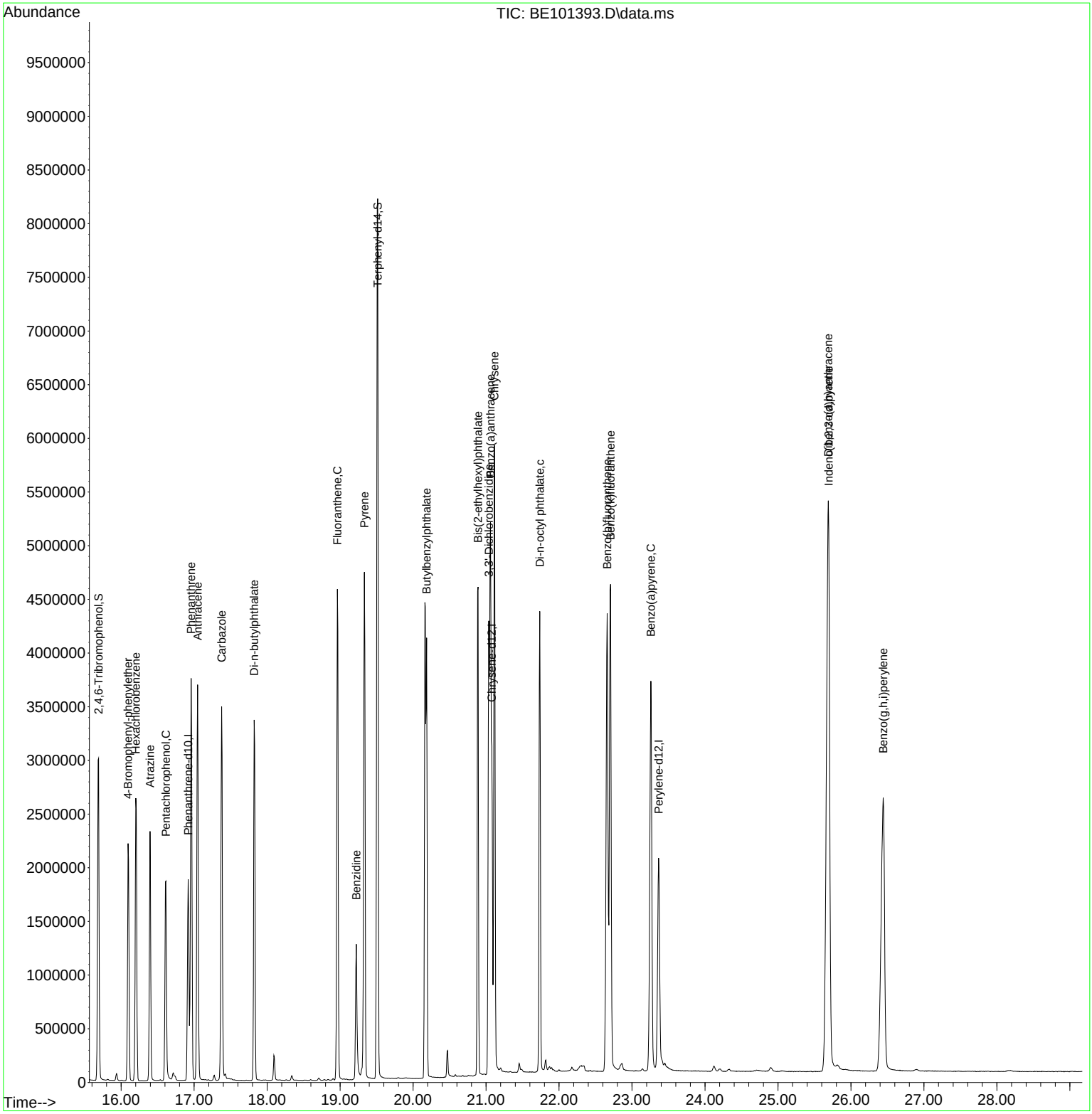
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101393.D
Acq On : 28 Oct 2024 14:11
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 29 01:15:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101394.D
Acq On : 28 Oct 2024 14:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:17:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.570 | 152 | 165364 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 10.343 | 136 | 801441 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 14.186 | 164 | 574825 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 16.918 | 188 | 1335462 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 21.083 | 240 | 1465052 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 23.369 | 264 | 1864446 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.320 | 112 | 945317 | 100.193 | ng | 0.00 |
| 7) Phenol-d6 | 6.953 | 99 | 1318040 | 100.748 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 8.786 | 82 | 1293125 | 101.343 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.690 | 330 | 1019729 | 101.216 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 12.805 | 172 | 3200754 | 94.300 | ng | 0.00 |
| 79) Terphenyl-d14 | 19.515 | 244 | 5028542 | 78.997 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.198 | 88 | 165210 | 46.948 | ng | 99 |
| 3) Pyridine | 3.633 | 79 | 517567m | 52.118 | ng | |
| 4) n-Nitrosodimethylamine | 3.551 | 42 | 195679 | 51.540 | ng | 97 |
| 6) Aniline | 7.012 | 93 | 537724 | 53.623 | ng | 99 |
| 8) 2-Chlorophenol | 7.217 | 128 | 565957 | 50.013 | ng | 99 |
| 9) Benzaldehyde | 6.782 | 77 | 280236 | 44.373 | ng | 97 |
| 10) Phenol | 6.976 | 94 | 743054 | 52.347 | ng | 99 |
| 11) bis(2-Chloroethyl)ether | 7.041 | 93 | 546510 | 47.680 | ng | 100 |
| 12) 1,3-Dichlorobenzene | 7.458 | 146 | 588809 | 48.254 | ng | 99 |
| 13) 1,4-Dichlorobenzene | 7.605 | 146 | 598105 | 47.999 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 7.934 | 146 | 592334 | 48.563 | ng | 99 |
| 15) Benzyl Alcohol | 7.911 | 79 | 418834 | 53.709 | ng | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.081 | 45 | 707405 | 48.273 | ng | 99 |
| 17) 2-Methylphenol | 8.157 | 107 | 488237 | 50.820 | ng | 99 |
| 18) Hexachloroethane | 8.627 | 117 | 204778 | 50.323 | ng | 98 |
| 19) n-Nitroso-di-n-propyla... | 8.375 | 70 | 460800 | 53.079 | ng | 99 |
| 20) 3+4-Methylphenols | 8.492 | 107 | 680525 | 51.316 | ng | 98 |
| 22) Acetophenone | 8.428 | 105 | 899066 | 49.406 | ng | 99 |
| 24) Nitrobenzene | 8.827 | 77 | 678889 | 49.988 | ng | 99 |
| 25) Isophorone | 9.280 | 82 | 1279882 | 51.402 | ng | 99 |
| 26) 2-Nitrophenol | 9.509 | 139 | 349958 | 53.315 | ng | 98 |
| 27) 2,4-Dimethylphenol | 9.632 | 122 | 412678 | 49.962 | ng | 99 |
| 28) bis(2-Chloroethoxy)met... | 9.779 | 93 | 749624 | 49.643 | ng | 98 |
| 29) 2,4-Dichlorophenol | 10.061 | 162 | 574208 | 50.250 | ng | 98 |
| 30) 1,2,4-Trichlorobenzene | 10.184 | 180 | 608746 | 48.902 | ng | 98 |
| 31) Naphthalene | 10.390 | 128 | 1967240 | 48.168 | ng | 100 |
| 32) Benzoic acid | 9.914 | 122 | 407599 | 47.974 | ng | 98 |
| 33) 4-Chloroaniline | 10.619 | 127 | 729487 | 51.367 | ng | 99 |
| 34) Hexachlorobutadiene | 10.637 | 225 | 358862 | 48.703 | ng | 99 |
| 35) Caprolactam | 11.406 | 113 | 236422m | 54.100 | ng | |
| 36) 4-Chloro-3-methylphenol | 11.788 | 107 | 661811 | 50.866 | ng | 99 |
| 37) 2-Methylnaphthalene | 11.982 | 142 | 1423968 | 48.395 | ng | 100 |
| 38) 1-Methylnaphthalene | 12.206 | 142 | 1420443 | 48.370 | ng | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 12.335 | 216 | 705872 | 48.917 | ng | 100 |
| 41) Hexachlorocyclopentadiene | 12.317 | 237 | 248185 | 52.077 | ng | 99 |
| 43) 2,4,6-Trichlorophenol | 12.658 | 196 | 507003 | 50.966 | ng | 99 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101394.D
Acq On : 28 Oct 2024 14:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:17:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 12.758 | 196 | 577861 | 50.725 | ng | 99 |
| 46) 1,1'-Biphenyl | 13.011 | 154 | 1905878 | 48.394 | ng | 99 |
| 47) 2-Chloronaphthalene | 13.057 | 162 | 1515183 | 48.698 | ng | 99 |
| 48) 2-Nitroaniline | 13.392 | 65 | 456762 | 54.549 | ng | 97 |
| 49) Acenaphthylene | 13.915 | 152 | 2279098 | 49.532 | ng | 99 |
| 50) Dimethylphthalate | 13.692 | 163 | 1979816 | 48.794 | ng | 100 |
| 51) 2,6-Dinitrotoluene | 13.827 | 165 | 478307 | 51.059 | ng | 98 |
| 52) Acenaphthene | 14.244 | 154 | 1460597 | 48.613 | ng | 98 |
| 53) 3-Nitroaniline | 14.238 | 138 | 499231 | 53.595 | ng | 100 |
| 54) 2,4-Dinitrophenol | 14.368 | 184 | 315420 | 49.677 | ng | 98 |
| 55) Dibenzofuran | 14.591 | 168 | 2305303 | 48.140 | ng | 99 |
| 56) 4-Nitrophenol | 14.656 | 139 | 456395 | 53.503 | ng | 98 |
| 57) 2,4-Dinitrotoluene | 14.609 | 165 | 689305 | 53.448 | ng | 97 |
| 58) Fluorene | 15.226 | 166 | 1946144 | 48.580 | ng | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 14.855 | 232 | 527624 | 50.129 | ng | 99 |
| 60) Diethylphthalate | 15.014 | 149 | 2092467 | 49.303 | ng | 99 |
| 61) 4-Chlorophenyl-phenyle... | 15.214 | 204 | 970975 | 48.844 | ng | 100 |
| 62) 4-Nitroaniline | 15.431 | 138 | 564289 | 54.440 | ng | 97 |
| 63) Azobenzene | 15.513 | 77 | 1794055 | 49.178 | ng | 98 |
| 65) 4,6-Dinitro-2-methylph... | 15.355 | 198 | 416174 | 53.034 | ng | 97 |
| 66) n-Nitrosodiphenylamine | 15.466 | 169 | 1722264 | 48.631 | ng | 99 |
| 67) 4-Bromophenyl-phenylether | 16.101 | 248 | 693890 | 49.394 | ng | 98 |
| 68) Hexachlorobenzene | 16.207 | 284 | 904857 | 49.141 | ng | 98 |
| 69) Atrazine | 16.395 | 200 | 363142 | 33.446 | ng | 100 |
| 70) Pentachlorophenol | 16.612 | 266 | 573833 | 54.140 | ng | 100 |
| 71) Phenanthrene | 16.965 | 178 | 3044921 | 47.621 | ng | 98 |
| 72) Anthracene | 17.047 | 178 | 3034208 | 48.599 | ng | 97 |
| 73) Carbazole | 17.382 | 167 | 3134249 | 49.063 | ng | 98 |
| 74) Di-n-butylphthalate | 17.828 | 149 | 3532643 | 50.231 | ng | 98 |
| 75) Fluoranthene | 18.968 | 202 | 3680604 | 47.394 | ng | 97 |
| 77) Benzidine | 19.221 | 184 | 834538 | 44.882 | ng | 100 |
| 78) Pyrene | 19.338 | 202 | 3852302 | 47.815 | ng | 95 |
| 80) Butylbenzylphthalate | 20.184 | 149 | 1808983 | 51.218 | ng | 96 |
| 81) Benzo(a)anthracene | 21.060 | 228 | 3835477 | 46.578 | ng | 94 |
| 82) 3,3'-Dichlorobenzidine | 21.036 | 252 | 1647556 | 51.076 | ng | 99 |
| 83) Chrysene | 21.119 | 228 | 3680796 | 46.231 | ng | 95 |
| 84) Bis(2-ethylhexyl)phtha... | 20.890 | 149 | 2461511 | 52.462 | ng | 95 |
| 85) Di-n-octyl phthalate | 21.736 | 149 | 3857877 | 50.096 | ng | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 25.713 | 276 | 6129290 | 49.122 | ng | 99 |
| 88) Benzo(b)fluoranthene | 22.664 | 252 | 4768116 | 49.073 | ng | 97 |
| 89) Benzo(k)fluoranthene | 22.711 | 252 | 4178802 | 46.021 | ng | 97 |
| 90) Benzo(a)pyrene | 23.263 | 252 | 4190180 | 49.311 | ng | 98 |
| 91) Dibenzo(a,h)anthracene | 25.701 | 278 | 5075435 | 49.227 | ng | 98 |
| 92) Benzo(g,h,i)perylene | 26.459 | 276 | 5244934 | 49.372 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

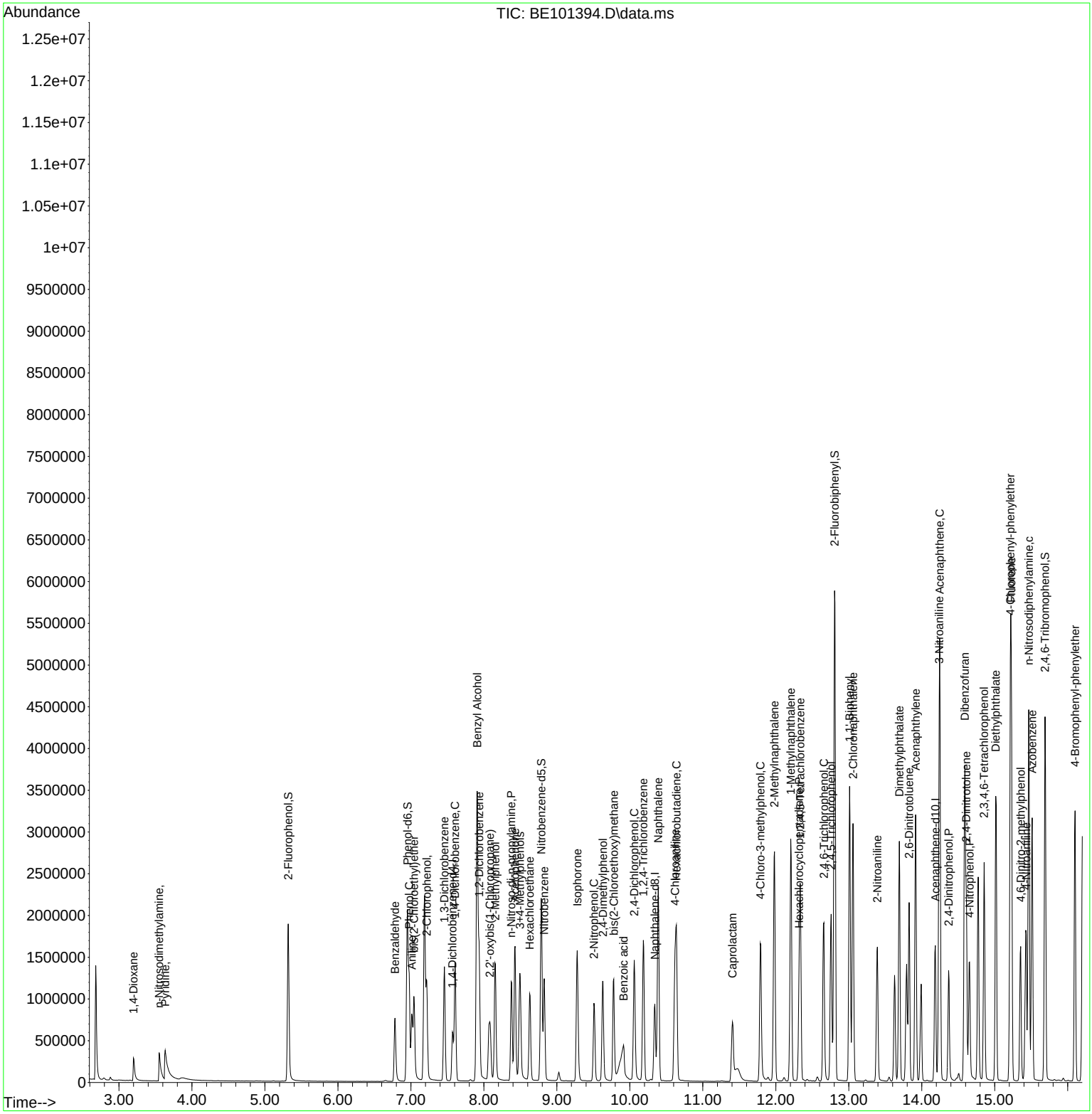
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101394.D
Acq On : 28 Oct 2024 14:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 29 01:17:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101394.D
Acq On : 28 Oct 2024 14:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 29 01:17:21 2024
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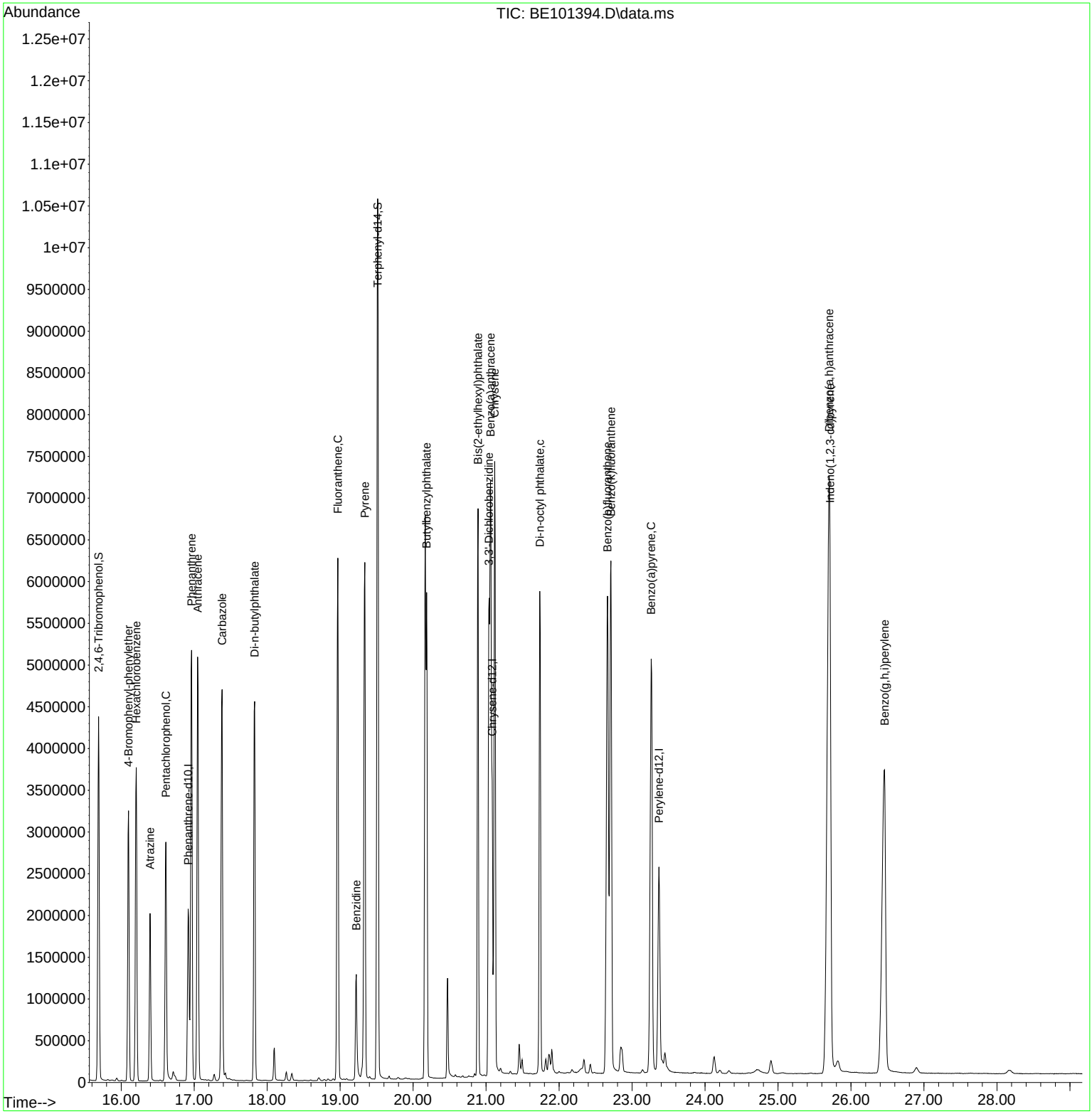
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101395.D
Acq On : 28 Oct 2024 15:25
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:19:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.571 | 152 | 163155 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.344 | 136 | 809663 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 14.186 | 164 | 591488 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 16.918 | 188 | 1356495 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 21.084 | 240 | 1430165 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 23.370 | 264 | 1844714 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.320 | 112 | 1161751 | 124.799 | ng | | 0.00 |
| 7) Phenol-d6 | 6.954 | 99 | 1690863 | 130.995 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 8.787 | 82 | 1608437 | 124.774 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.696 | 330 | 1274537 | 122.943 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 12.811 | 172 | 3805211 | 108.950 | ng | | 0.00 |
| 79) Terphenyl-d14 | 19.515 | 244 | 5639764 | 90.760 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.199 | 88 | 191626 | 55.192 | ng | | 97 |
| 3) Pyridine | 3.628 | 79 | 629804m | 64.279 | ng | | |
| 4) n-Nitrosodimethylamine | 3.552 | 42 | 238643 | 63.708 | ng | | 100 |
| 6) Aniline | 7.012 | 93 | 599193 | 60.562 | ng | | 97 |
| 8) 2-Chlorophenol | 7.218 | 128 | 697895 | 62.507 | ng | | 99 |
| 9) Benzaldehyde | 6.777 | 77 | 291474 | 46.777 | ng | | 98 |
| 10) Phenol | 6.977 | 94 | 936909 | 66.897 | ng | | 99 |
| 11) bis(2-Chloroethyl)ether | 7.042 | 93 | 689201 | 60.943 | ng | | 100 |
| 12) 1,3-Dichlorobenzene | 7.459 | 146 | 706102 | 58.650 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 7.606 | 146 | 726410 | 59.085 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.935 | 146 | 720379 | 59.861 | ng | | 99 |
| 15) Benzyl Alcohol | 7.911 | 79 | 518109 | 67.338 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.076 | 45 | 854650 | 59.110 | ng | | 98 |
| 17) 2-Methylphenol | 8.158 | 107 | 618187 | 65.217 | ng | | 100 |
| 18) Hexachloroethane | 8.628 | 117 | 242901 | 60.500 | ng | | 100 |
| 19) n-Nitroso-di-n-propyla... | 8.381 | 70 | 580217 | 67.739 | ng | | 97 |
| 20) 3+4-Methylphenols | 8.499 | 107 | 870273 | 66.513 | ng | | 100 |
| 22) Acetophenone | 8.428 | 105 | 1121751 | 61.017 | ng | # | 99 |
| 24) Nitrobenzene | 8.828 | 77 | 850351 | 61.978 | ng | | 99 |
| 25) Isophorone | 9.280 | 82 | 1591646 | 63.273 | ng | | 99 |
| 26) 2-Nitrophenol | 9.509 | 139 | 443163 | 66.828 | ng | | 100 |
| 27) 2,4-Dimethylphenol | 9.633 | 122 | 521039 | 62.440 | ng | | 100 |
| 28) bis(2-Chloroethoxy)met... | 9.780 | 93 | 934621 | 61.266 | ng | | 98 |
| 29) 2,4-Dichlorophenol | 10.062 | 162 | 739800 | 64.084 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 10.185 | 180 | 745599 | 59.288 | ng | | 99 |
| 31) Naphthalene | 10.391 | 128 | 2427438 | 58.833 | ng | | 99 |
| 32) Benzoic acid | 9.932 | 122 | 540565 | 60.410 | ng | | 99 |
| 33) 4-Chloroaniline | 10.620 | 127 | 886113 | 61.762 | ng | | 99 |
| 34) Hexachlorobutadiene | 10.638 | 225 | 436703 | 58.666 | ng | | 98 |
| 35) Caprolactam | 11.419 | 113 | 305109m | 69.109 | ng | | |
| 36) 4-Chloro-3-methylphenol | 11.795 | 107 | 842462 | 64.094 | ng | | 100 |
| 37) 2-Methylnaphthalene | 11.977 | 142 | 1788431 | 60.165 | ng | | 99 |
| 38) 1-Methylnaphthalene | 12.206 | 142 | 1780103 | 60.002 | ng | | 98 |
| 40) 1,2,4,5-Tetrachloroben... | 12.336 | 216 | 886111 | 59.677 | ng | | 100 |
| 41) Hexachlorocyclopentadiene | 12.318 | 237 | 297498 | 60.666 | ng | | 98 |
| 43) 2,4,6-Trichlorophenol | 12.659 | 196 | 639597 | 62.483 | ng | | 98 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101395.D
Acq On : 28 Oct 2024 15:25
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:19:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 12.759 | 196 | 742308 | 63.325 | ng | | 98 |
| 46) 1,1'-Biphenyl | 13.011 | 154 | 2353812 | 58.085 | ng | | 98 |
| 47) 2-Chloronaphthalene | 13.058 | 162 | 1881309 | 58.761 | ng | | 98 |
| 48) 2-Nitroaniline | 13.393 | 65 | 584466 | 67.834 | ng | | 98 |
| 49) Acenaphthylene | 13.916 | 152 | 2833567 | 59.847 | ng | | 97 |
| 50) Dimethylphthalate | 13.699 | 163 | 2454675 | 58.793 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 13.834 | 165 | 613251 | 63.620 | ng | | 97 |
| 52) Acenaphthene | 14.251 | 154 | 1804815 | 58.378 | ng | | 99 |
| 53) 3-Nitroaniline | 14.239 | 138 | 612603 | 63.913 | ng | | 99 |
| 54) 2,4-Dinitrophenol | 14.374 | 184 | 407974 | 61.001 | ng | | 100 |
| 55) Dibenzofuran | 14.592 | 168 | 2853610 | 57.911 | ng | | 98 |
| 56) 4-Nitrophenol | 14.656 | 139 | 574109 | 65.406 | ng | | 99 |
| 57) 2,4-Dinitrotoluene | 14.615 | 165 | 878036 | 66.163 | ng | | 98 |
| 58) Fluorene | 15.232 | 166 | 2380604 | 57.751 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 14.856 | 232 | 670164 | 61.877 | ng | | 100 |
| 60) Diethylphthalate | 15.021 | 149 | 2532782 | 57.997 | ng | | 97 |
| 61) 4-Chlorophenyl-phenyle... | 15.215 | 204 | 1193362 | 58.339 | ng | | 99 |
| 62) 4-Nitroaniline | 15.432 | 138 | 699974 | 65.628 | ng | | 99 |
| 63) Azobenzene | 15.514 | 77 | 2208829 | 58.842 | ng | | 97 |
| 65) 4,6-Dinitro-2-methylph... | 15.356 | 198 | 532042 | 66.748 | ng | | 100 |
| 66) n-Nitrosodiphenylamine | 15.467 | 169 | 2117735 | 58.871 | ng | | 98 |
| 67) 4-Bromophenyl-phenylether | 16.102 | 248 | 872994 | 61.180 | ng | | 98 |
| 68) Hexachlorobenzene | 16.207 | 284 | 1133251 | 60.590 | ng | | 98 |
| 70) Pentachlorophenol | 16.613 | 266 | 721263 | 66.994 | ng | | 99 |
| 71) Phenanthrene | 16.965 | 178 | 3645888 | 56.136 | ng | | 95 |
| 72) Anthracene | 17.054 | 178 | 3634148 | 57.305 | ng | | 96 |
| 73) Carbazole | 17.383 | 167 | 3721077 | 57.345 | ng | | 96 |
| 74) Di-n-butylphthalate | 17.829 | 149 | 4008628 | 56.115 | ng | | 96 |
| 75) Fluoranthene | 18.969 | 202 | 4242490 | 53.782 | ng | | 94 |
| 77) Benzidine | 19.222 | 184 | 848095 | 46.724 | ng | | 100 |
| 78) Pyrene | 19.339 | 202 | 4360488 | 55.443 | ng | # | 91 |
| 80) Butylbenzylphthalate | 20.185 | 149 | 2101110 | 60.940 | ng | | 96 |
| 81) Benzo(a)anthracene | 21.061 | 228 | 4335279 | 53.932 | ng | | 90 |
| 82) 3,3'-Dichlorobenzidine | 21.037 | 252 | 1903536 | 60.451 | ng | | 99 |
| 83) Chrysene | 21.119 | 228 | 4127052 | 53.101 | ng | | 92 |
| 84) Bis(2-ethylhexyl)phtha... | 20.890 | 149 | 2827835 | 61.739 | ng | | 93 |
| 85) Di-n-octyl phthalate | 21.736 | 149 | 4427600 | 58.897 | ng | | 98 |
| 87) Indeno(1,2,3-cd)pyrene | 25.720 | 276 | 7274934 | 58.927 | ng | | 98 |
| 88) Benzo(b)fluoranthene | 22.665 | 252 | 5533490 | 57.560 | ng | | 96 |
| 89) Benzo(k)fluoranthene | 22.712 | 252 | 4844203m | 53.920 | ng | | |
| 90) Benzo(a)pyrene | 23.270 | 252 | 4927882 | 58.613 | ng | | 96 |
| 91) Dibenzo(a,h)anthracene | 25.708 | 278 | 5992823 | 58.746 | ng | | 97 |
| 92) Benzo(g,h,i)perylene | 26.466 | 276 | 6373220 | 60.635 | ng | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

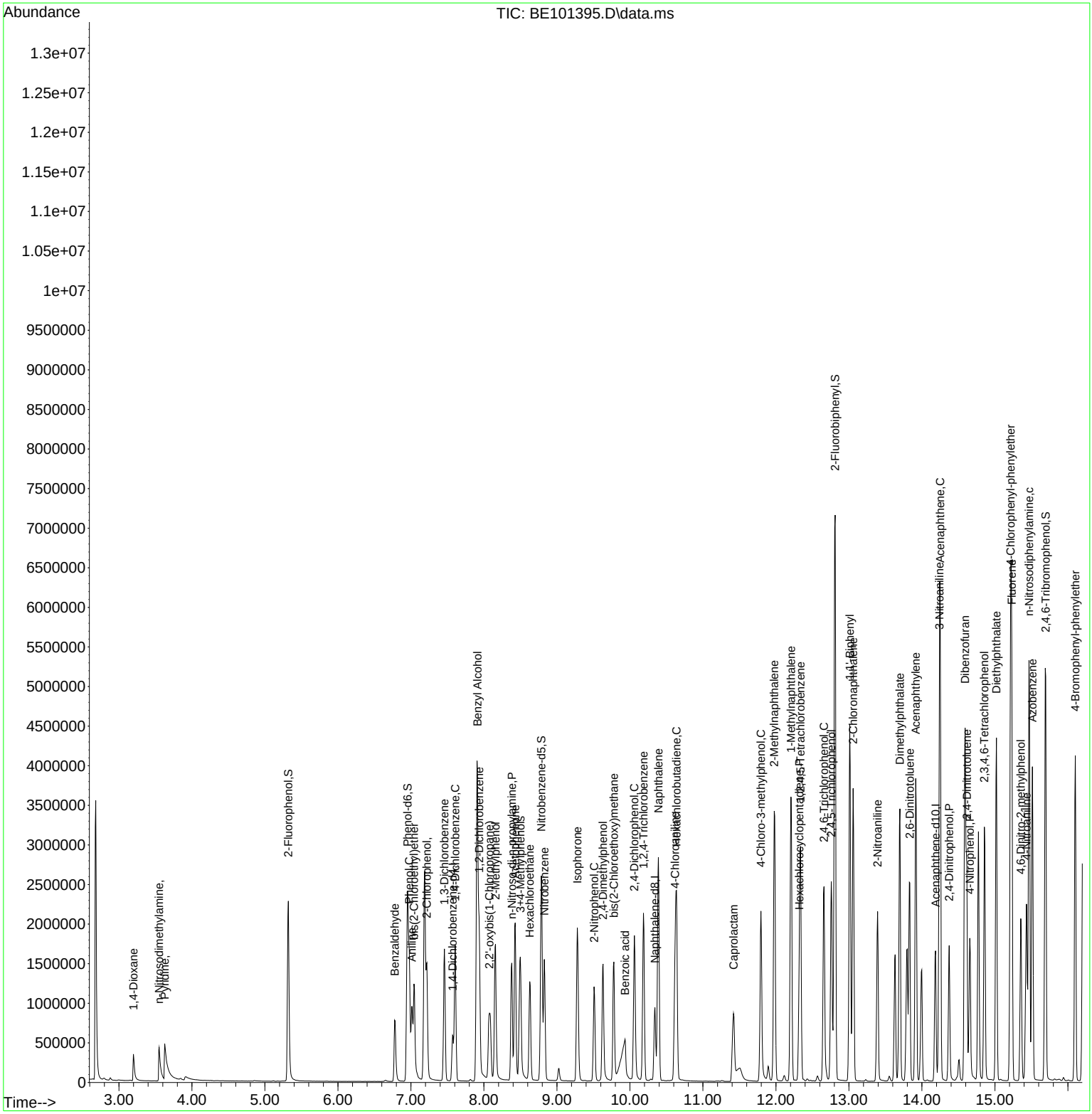
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101395.D
Acq On : 28 Oct 2024 15:25
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 29 01:19:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101395.D
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Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

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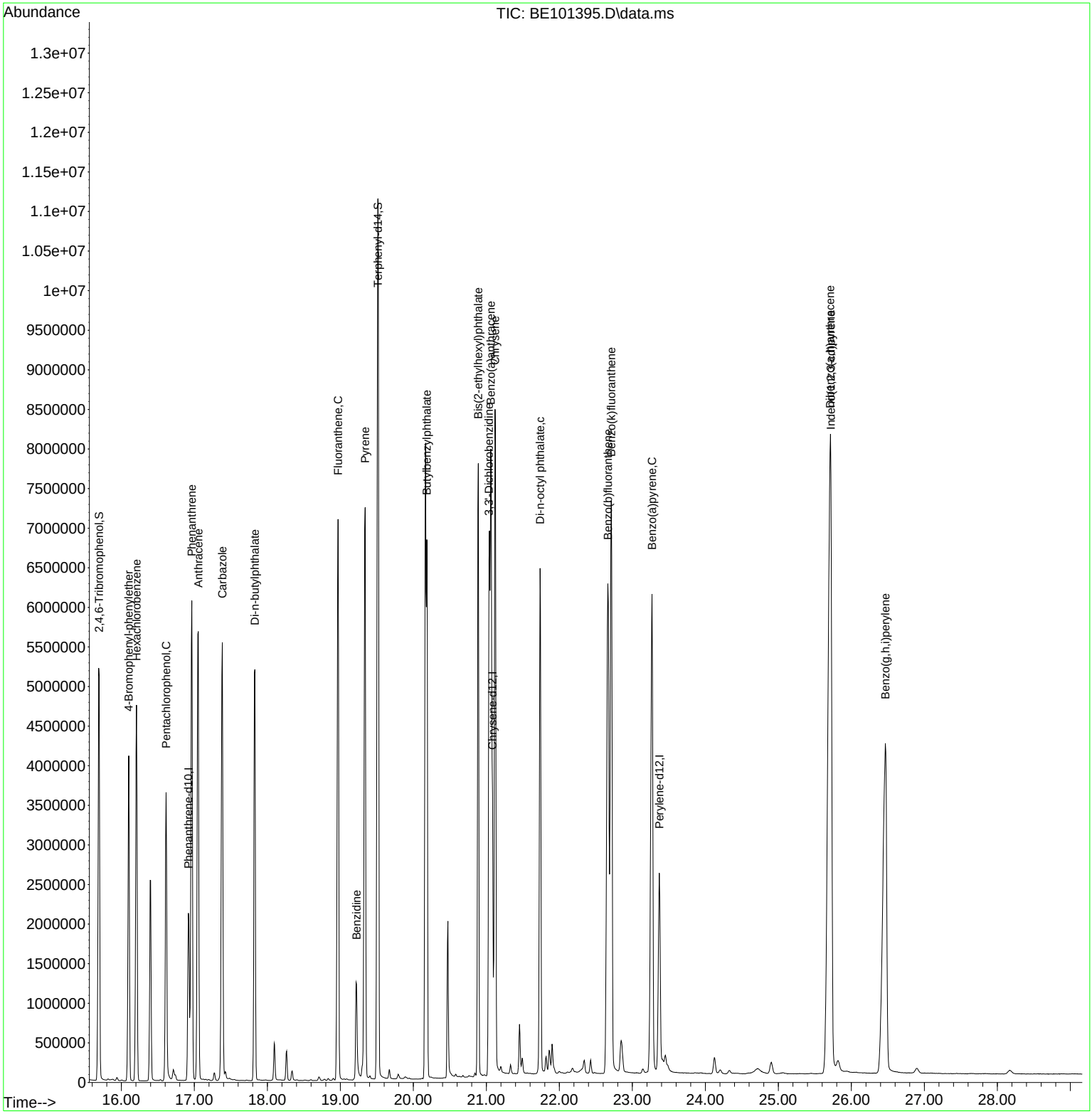
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101396.D
Acq On : 28 Oct 2024 16:01
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 29 01:22:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.575 | 152 | 178600 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.342 | 136 | 857359 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 14.185 | 164 | 629145 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 16.923 | 188 | 1425289 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 21.089 | 240 | 1483802 | 20.000 | ng | | 0.01 |
| 86) Perylene-d12 | 23.374 | 264 | 1958585 | 20.000 | ng | | 0.01 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.319 | 112 | 1650888 | 162.007 | ng | | 0.00 |
| 7) Phenol-d6 | 6.958 | 99 | 2347999 | 166.174 | ng | | 0.01 |
| 23) Nitrobenzene-d5 | 8.791 | 82 | 2169296 | 158.920 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.701 | 330 | 1741409 | 157.924 | ng | | 0.01 |
| 45) 2-Fluorobiphenyl | 12.810 | 172 | 4719582 | 127.042 | ng | | 0.00 |
| 79) Terphenyl-d14 | 0.000 | 244 | 0d | 0.000 | ng | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.198 | 88 | 270568 | 71.190 | ng | | 99 |
| 3) Pyridine | 3.621 | 79 | 894327m | 83.383 | ng | | |
| 4) n-Nitrosodimethylamine | 3.544 | 42 | 334535 | 81.584 | ng | | 97 |
| 6) Aniline | 7.017 | 93 | 548070m | 50.604 | ng | | |
| 8) 2-Chlorophenol | 7.222 | 128 | 979447 | 80.138 | ng | | 100 |
| 10) Phenol | 6.981 | 94 | 1263744 | 82.431 | ng | | 99 |
| 11) bis(2-Chloroethyl)ether | 7.046 | 93 | 1066176m | 86.125 | ng | | |
| 12) 1,3-Dichlorobenzene | 7.457 | 146 | 987323 | 74.916 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 7.604 | 146 | 1006819 | 74.811 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.939 | 146 | 991630 | 75.275 | ng | | 99 |
| 15) Benzyl Alcohol | 7.916 | 79 | 707261 | 83.973 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.080 | 45 | 1173362 | 74.135 | ng | | 97 |
| 17) 2-Methylphenol | 8.157 | 107 | 867917 | 83.645 | ng | | 100 |
| 18) Hexachloroethane | 8.633 | 117 | 343760 | 78.217 | ng | | 99 |
| 19) n-Nitroso-di-n-propyla... | 8.386 | 70 | 787045 | 83.939 | ng | | 97 |
| 20) 3+4-Methylphenols | 8.497 | 107 | 1195852 | 83.492 | ng | | 98 |
| 22) Acetophenone | 8.427 | 105 | 1529824 | 78.585 | ng | # | 99 |
| 24) Nitrobenzene | 8.832 | 77 | 1163720 | 80.099 | ng | | 97 |
| 25) Isophorone | 9.285 | 82 | 2169116 | 81.433 | ng | | 98 |
| 26) 2-Nitrophenol | 9.514 | 139 | 621636 | 88.527 | ng | | 97 |
| 27) 2,4-Dimethylphenol | 9.631 | 122 | 723584 | 81.889 | ng | | 100 |
| 28) bis(2-Chloroethoxy)met... | 9.778 | 93 | 1268974 | 78.555 | ng | | 98 |
| 29) 2,4-Dichlorophenol | 10.066 | 162 | 1019981 | 83.439 | ng | | 99 |
| 30) 1,2,4-Trichlorobenzene | 10.190 | 180 | 1026026 | 77.047 | ng | | 98 |
| 31) Naphthalene | 10.389 | 128 | 3210242 | 73.477 | ng | | 97 |
| 32) Benzoic acid | 9.966 | 122 | 802694 | 81.411 | ng | | 98 |
| 33) 4-Chloroaniline | 10.624 | 127 | 1045977 | 68.848 | ng | | 99 |
| 34) Hexachlorobutadiene | 10.642 | 225 | 602261 | 76.406 | ng | | 99 |
| 35) Caprolactam | 11.447 | 113 | 423607m | 90.611 | ng | | |
| 36) 4-Chloro-3-methylphenol | 11.805 | 107 | 1177907 | 84.629 | ng | | 99 |
| 37) 2-Methylnaphthalene | 11.982 | 142 | 2386729 | 75.826 | ng | | 99 |
| 38) 1-Methylnaphthalene | 12.211 | 142 | 2387484 | 75.998 | ng | | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 12.340 | 216 | 1210469 | 76.642 | ng | | 100 |
| 41) Hexachlorocyclopentadiene | 12.322 | 237 | 406717 | 77.974 | ng | | 98 |
| 43) 2,4,6-Trichlorophenol | 12.657 | 196 | 889070 | 81.656 | ng | | 99 |
| 44) 2,4,5-Trichlorophenol | 12.763 | 196 | 1033376 | 82.879 | ng | | 99 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101396.D
Acq On : 28 Oct 2024 16:01
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:22:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) 1,1'-Biphenyl | 13.016 | 154 | 3080214 | 71.461 | ng | | 96 |
| 47) 2-Chloronaphthalene | 13.063 | 162 | 2521882 | 74.054 | ng | | 96 |
| 48) 2-Nitroaniline | 13.398 | 65 | 810925 | 88.484 | ng | | 97 |
| 49) Acenaphthylene | 13.920 | 152 | 3707314 | 73.615 | ng | | 95 |
| 50) Dimethylphthalate | 13.703 | 163 | 3267141 | 73.569 | ng | | 98 |
| 51) 2,6-Dinitrotoluene | 13.838 | 165 | 839701 | 81.898 | ng | | 97 |
| 52) Acenaphthene | 14.249 | 154 | 2355574 | 71.632 | ng | | 97 |
| 53) 3-Nitroaniline | 14.244 | 138 | 793668 | 77.847 | ng | | 97 |
| 54) 2,4-Dinitrophenol | 14.379 | 184 | 582382 | 79.945 | ng | | 99 |
| 55) Dibenzofuran | 14.590 | 168 | 3693841 | 70.475 | ng | | 92 |
| 56) 4-Nitrophenol | 14.667 | 139 | 799802 | 85.665 | ng | | 98 |
| 57) 2,4-Dinitrotoluene | 14.620 | 165 | 1210728 | 85.772 | ng | | 100 |
| 58) Fluorene | 15.231 | 166 | 3075135 | 70.134 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 14.861 | 232 | 929313 | 80.669 | ng | | 100 |
| 60) Diethylphthalate | 15.025 | 149 | 3340276 | 71.909 | ng | | 93 |
| 61) 4-Chlorophenyl-phenyle... | 15.219 | 204 | 1587212 | 72.949 | ng | | 98 |
| 62) 4-Nitroaniline | 15.442 | 138 | 979372 | 86.327 | ng | | 99 |
| 63) Azobenzene | 15.519 | 77 | 2903362 | 72.715 | ng | | 93 |
| 65) 4,6-Dinitro-2-methylph... | 15.360 | 198 | 757521 | 90.448 | ng | | 98 |
| 66) n-Nitrosodiphenylamine | 15.472 | 169 | 2787792 | 73.757 | ng | | 97 |
| 67) 4-Bromophenyl-phenylether | 16.100 | 248 | 1192660 | 79.548 | ng | | 100 |
| 68) Hexachlorobenzene | 16.212 | 284 | 1535726 | 78.146 | ng | | 98 |
| 70) Pentachlorophenol | 16.617 | 266 | 1010500 | 89.330 | ng | | 99 |
| 71) Phenanthrene | 16.970 | 178 | 4566935 | 66.923 | ng | # | 91 |
| 72) Anthracene | 17.052 | 178 | 4521882 | 67.862 | ng | # | 90 |
| 73) Carbazole | 17.387 | 167 | 4672533 | 68.533 | ng | # | 90 |
| 74) Di-n-butylphthalate | 17.828 | 149 | 4941803 | 65.839 | ng | # | 92 |
| 75) Fluoranthene | 18.973 | 202 | 5150870 | 62.145 | ng | | 89 |
| 77) Benzidine | 19.220 | 184 | 1366638 | 72.570 | ng | | 99 |
| 78) Pyrene | 19.343 | 202 | 5284167 | 64.759 | ng | # | 86 |
| 80) Butylbenzylphthalate | 20.190 | 149 | 2702990 | 75.562 | ng | | 96 |
| 81) Benzo(a)anthracene | 21.065 | 228 | 5217950 | 62.566 | ng | # | 85 |
| 82) 3,3'-Dichlorobenzidine | 21.041 | 252 | 2349046 | 71.902 | ng | | 97 |
| 83) Chrysene | 21.124 | 228 | 4974972 | 61.697 | ng | # | 86 |
| 84) Bis(2-ethylhexyl)phtha... | 20.889 | 149 | 3506446 | 73.788 | ng | # | 89 |
| 85) Di-n-octyl phthalate | 21.741 | 149 | 5240960 | 67.196 | ng | # | 96 |
| 87) Indeno(1,2,3-cd)pyrene | 25.742 | 276 | 9511841 | 72.567 | ng | | 98 |
| 88) Benzo(b)fluoranthene | 22.675 | 252 | 6843216 | 67.045 | ng | # | 91 |
| 89) Benzo(k)fluoranthene | 22.722 | 252 | 6063342 | 63.566 | ng | # | 89 |
| 90) Benzo(a)pyrene | 23.274 | 252 | 6239978 | 69.904 | ng | # | 91 |
| 91) Dibenzo(a,h)anthracene | 25.724 | 278 | 7655222 | 70.679 | ng | | 95 |
| 92) Benzo(g,h,i)perylene | 26.482 | 276 | 8419364 | 75.445 | ng | | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

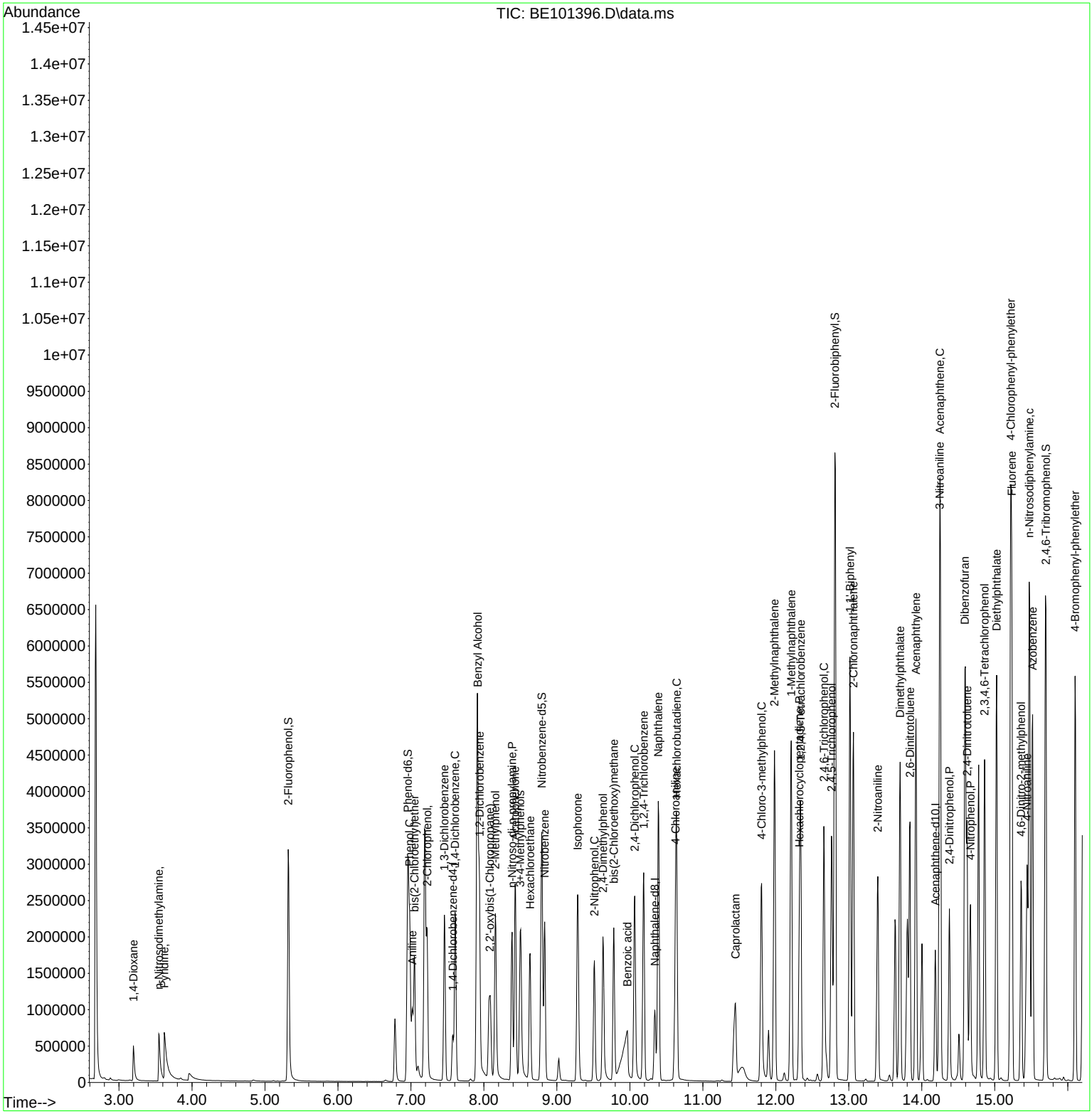
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101396.D
Acq On : 28 Oct 2024 16:01
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 29 01:22:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101396.D
Acq On : 28 Oct 2024 16:01
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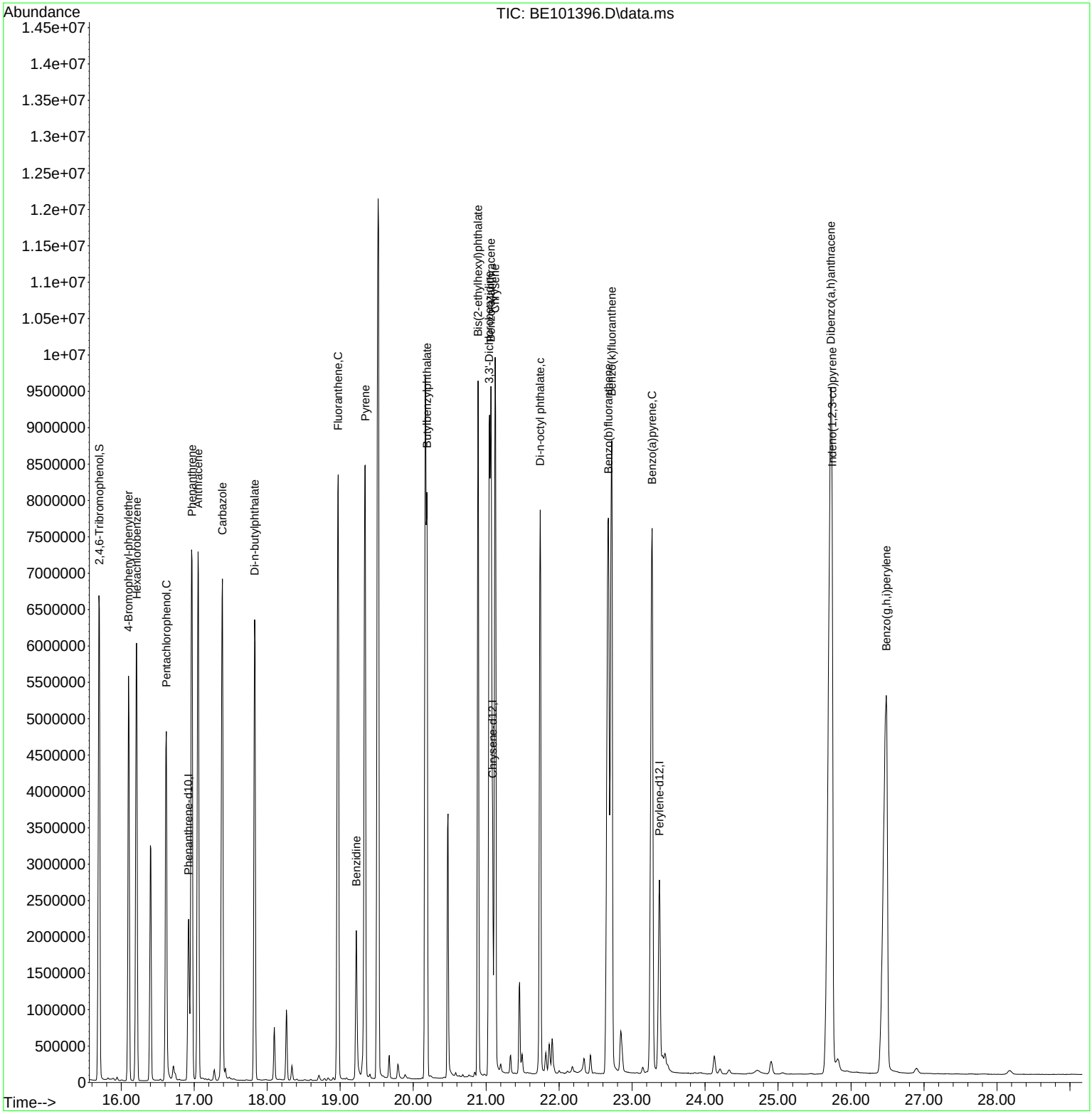
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
ICVBE102824

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.570 | 152 | 135975 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 10.343 | 136 | 689556 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 14.186 | 164 | 494390 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 16.918 | 188 | 1118107 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 21.077 | 240 | 1178888 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 23.369 | 264 | 1506294 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.319 | 112 | 642682 | 82.839 | ng | 0.00 |
| 7) Phenol-d6 | 6.953 | 99 | 943928 | 87.746 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 8.786 | 82 | 931158 | 84.816 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.690 | 330 | 730631 | 84.319 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 12.805 | 172 | 2410105 | 82.558 | ng | 0.00 |
| 79) Terphenyl-d14 | 19.515 | 244 | 4018242 | 78.448 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.204 | 88 | 112859 | 39.003 | ng | 99 |
| 3) Pyridine | 3.639 | 79 | 342567m | 41.845 | ng | |
| 4) n-Nitrosodimethylamine | 3.557 | 42 | 131547 | 41.530 | ng | 99 |
| 6) Aniline | 7.012 | 93 | 381702m | 46.299 | ng | |
| 8) 2-Chlorophenol | 7.217 | 128 | 394111 | 42.354 | ng | 99 |
| 9) Benzaldehyde | 6.782 | 77 | 243959 | 46.978 | ng | 98 |
| 10) Phenol | 6.976 | 94 | 524973 | 44.977 | ng | 99 |
| 11) bis(2-Chloroethyl)ether | 7.041 | 93 | 352789 | 36.844 | ng | 99 |
| 12) 1,3-Dichlorobenzene | 7.458 | 146 | 407554 | 40.619 | ng | 99 |
| 13) 1,4-Dichlorobenzene | 7.605 | 146 | 416170 | 40.617 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 7.934 | 146 | 416666 | 41.544 | ng | 99 |
| 15) Benzyl Alcohol | 7.916 | 79 | 280441 | 43.735 | ng | 100 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.075 | 45 | 504614 | 41.877 | ng | 96 |
| 17) 2-Methylphenol | 8.157 | 107 | 338367 | 42.832 | ng | 100 |
| 18) Hexachloroethane | 8.627 | 117 | 140124 | 41.877 | ng | 97 |
| 19) n-Nitroso-di-n-propyla... | 8.375 | 70 | 334804 | 46.901 | ng | 98 |
| 20) 3+4-Methylphenols | 8.492 | 107 | 482425 | 44.240 | ng | 96 |
| 22) Acetophenone | 8.422 | 105 | 658880 | 42.082 | ng | 99 |
| 24) Nitrobenzene | 8.827 | 77 | 486233 | 41.612 | ng | 98 |
| 25) Isophorone | 9.280 | 82 | 923963 | 43.128 | ng | 99 |
| 26) 2-Nitrophenol | 9.509 | 139 | 247215 | 43.773 | ng | 99 |
| 27) 2,4-Dimethylphenol | 9.632 | 122 | 296382 | 41.704 | ng | 99 |
| 28) bis(2-Chloroethoxy)met... | 9.779 | 93 | 543065 | 41.799 | ng | 99 |
| 29) 2,4-Dichlorophenol | 10.061 | 162 | 413366 | 42.044 | ng | 100 |
| 30) 1,2,4-Trichlorobenzene | 10.184 | 180 | 432858 | 40.415 | ng | 99 |
| 31) Naphthalene | 10.390 | 128 | 1427648 | 40.628 | ng | 100 |
| 32) Benzoic acid | 9.896 | 122 | 280040 | 39.965 | ng | 99 |
| 33) 4-Chloroaniline | 10.613 | 127 | 560356 | 45.859 | ng | 99 |
| 34) Hexachlorobutadiene | 10.637 | 225 | 255945 | 40.372 | ng | 99 |
| 35) Caprolactam | 11.395 | 113 | 166215 | 44.104 | ng | 98 |
| 36) 4-Chloro-3-methylphenol | 11.788 | 107 | 479680 | 42.850 | ng | 99 |
| 37) 2-Methylnaphthalene | 11.976 | 142 | 1040801 | 41.112 | ng | 99 |
| 38) 1-Methylnaphthalene | 12.206 | 142 | 1039012 | 41.122 | ng | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 12.335 | 216 | 508563 | 40.977 | ng | 100 |
| 41) Hexachlorocyclopentadiene | 12.317 | 237 | 169665 | 41.393 | ng | 99 |
| 43) 2,4,6-Trichlorophenol | 12.658 | 196 | 369991 | 43.244 | ng | 99 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
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Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
ICVBE102824

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 12.758 | 196 | 417164 | 42.577 | ng | 100 |
| 46) 1,1'-Biphenyl | 13.010 | 154 | 1390011 | 41.038 | ng | 99 |
| 47) 2-Chloronaphthalene | 13.057 | 162 | 1102426 | 41.196 | ng | 99 |
| 48) 2-Nitroaniline | 13.386 | 65 | 326383 | 45.320 | ng | 99 |
| 49) Acenaphthylene | 13.915 | 152 | 1651908 | 41.742 | ng | 99 |
| 50) Dimethylphthalate | 13.692 | 163 | 1435201 | 41.126 | ng | 100 |
| 51) 2,6-Dinitrotoluene | 13.827 | 165 | 339386 | 42.124 | ng | 97 |
| 52) Acenaphthene | 14.244 | 154 | 1064171 | 41.182 | ng | 99 |
| 53) 3-Nitroaniline | 14.233 | 138 | 354038 | 44.191 | ng | 99 |
| 54) 2,4-Dinitrophenol | 14.368 | 184 | 204189 | 38.780 | ng | 98 |
| 55) Dibenzofuran | 14.591 | 168 | 1676523 | 40.705 | ng | 99 |
| 56) 4-Nitrophenol | 14.650 | 139 | 305994 | 41.707 | ng | 99 |
| 57) 2,4-Dinitrotoluene | 14.609 | 165 | 480487 | 43.318 | ng | 99 |
| 58) Fluorene | 15.225 | 166 | 1418626 | 41.173 | ng | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 14.855 | 232 | 384198 | 42.441 | ng | 99 |
| 60) Diethylphthalate | 15.014 | 149 | 1493405 | 40.913 | ng | 100 |
| 61) 4-Chlorophenyl-phenyle... | 15.214 | 204 | 701783 | 41.046 | ng | 99 |
| 62) 4-Nitroaniline | 15.419 | 138 | 385584 | 43.251 | ng | 99 |
| 63) Azobenzene | 15.508 | 77 | 1304082 | 41.563 | ng | 99 |
| 65) 4,6-Dinitro-2-methylph... | 15.349 | 198 | 274306 | 41.750 | ng | 99 |
| 66) n-Nitrosodiphenylamine | 15.466 | 169 | 1234319 | 41.628 | ng | 99 |
| 67) 4-Bromophenyl-phenylether | 16.101 | 248 | 491891 | 41.822 | ng | 96 |
| 68) Hexachlorobenzene | 16.207 | 284 | 643314 | 41.729 | ng | 97 |
| 69) Atrazine | 16.395 | 200 | 406439 | 44.711 | ng | 100 |
| 70) Pentachlorophenol | 16.612 | 266 | 397449 | 44.788 | ng | 98 |
| 71) Phenanthrene | 16.959 | 178 | 2206489 | 41.217 | ng | 100 |
| 72) Anthracene | 17.047 | 178 | 2193019 | 41.954 | ng | 99 |
| 73) Carbazole | 17.376 | 167 | 2216213 | 41.436 | ng | 100 |
| 74) Di-n-butylphthalate | 17.822 | 149 | 2524597 | 42.876 | ng | 100 |
| 75) Fluoranthene | 18.962 | 202 | 2654890 | 40.831 | ng | 99 |
| 77) Benzidine | 19.221 | 184 | 902385 | 60.311 | ng | 100 |
| 78) Pyrene | 19.332 | 202 | 2798951 | 43.174 | ng | 100 |
| 80) Butylbenzylphthalate | 20.184 | 149 | 1229626 | 43.265 | ng | 99 |
| 81) Benzo(a)anthracene | 21.060 | 228 | 2796518 | 42.205 | ng | 100 |
| 82) 3,3'-Dichlorobenzidine | 21.036 | 252 | 1140565 | 43.941 | ng | 100 |
| 83) Chrysene | 21.113 | 228 | 2666843 | 41.627 | ng | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 20.889 | 149 | 1683088 | 44.579 | ng | 99 |
| 85) Di-n-octyl phthalate | 21.736 | 149 | 2752236 | 44.414 | ng | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 25.696 | 276 | 4140658 | 41.075 | ng | 100 |
| 88) Benzo(b)fluoranthene | 22.658 | 252 | 3307474 | 42.134 | ng | 99 |
| 89) Benzo(k)fluoranthene | 22.705 | 252 | 3044393 | 41.512 | ng | 99 |
| 90) Benzo(a)pyrene | 23.257 | 252 | 2880588 | 41.960 | ng | 100 |
| 91) Dibenzo(a,h)anthracene | 25.684 | 278 | 3469403 | 41.651 | ng | 99 |
| 92) Benzo(g,h,i)perylene | 26.442 | 276 | 3517606 | 40.986 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

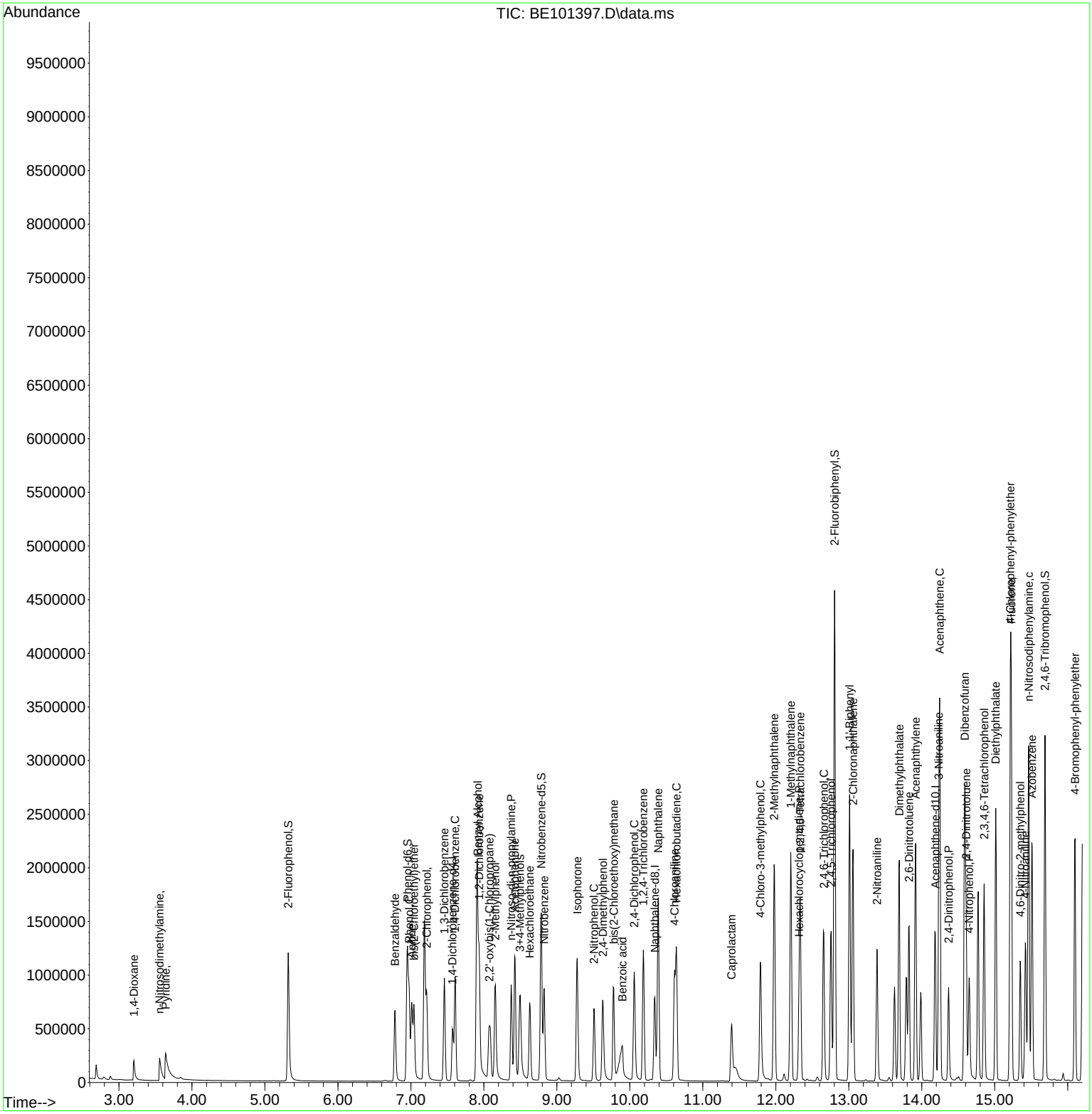
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
ICVBE102824

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
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QLast Update : Tue Oct 29 01:26:30 2024
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**Instrument :**
BNA_E
**ClientSampleId :**
ICVBE102824

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/29/2024
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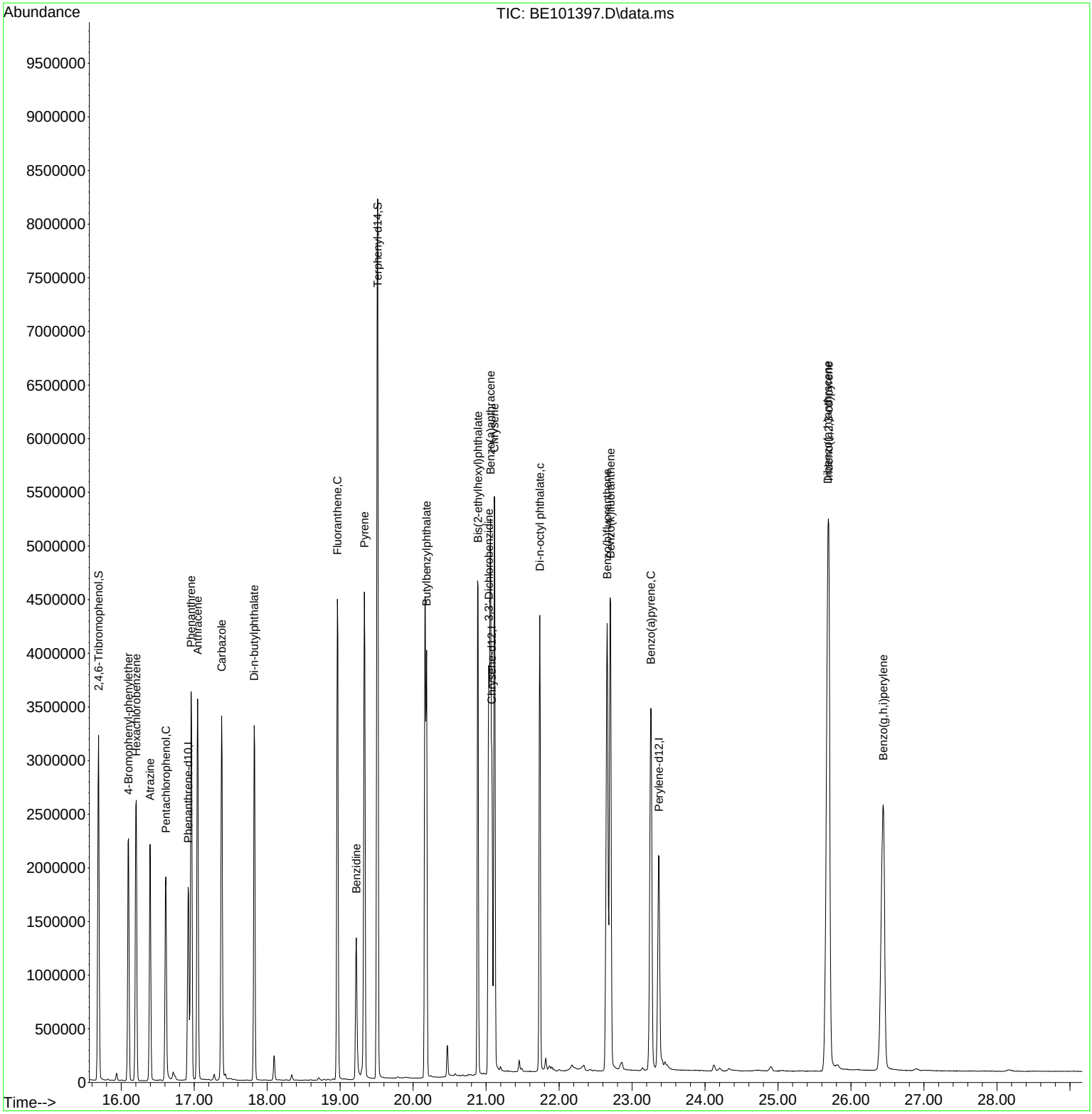

# Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
ICVBE102824

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 2 | | 1,4-Dioxane | 0.426 | 0.415 | 2.6 | 95 | 0.00 |
| 3 | | Pyridine | 1.204 | 1.260 | -4.7 | 102 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 0.466 | 0.484 | -3.9 | 97 | 0.00 |
| 5 | S | 2-Fluorophenol | 1.141 | 1.182 | -3.6 | 99 | 0.00 |
| 6 | | Aniline | 1.213 | 1.404 | -15.7 | 101 | 0.00 |
| 7 | S | Phenol-d6 | 1.582 | 1.735 | -9.7 | 103 | 0.00 |
| 8 | | 2-Chlorophenol | 1.369 | 1.449 | -5.8 | 100 | 0.00 |
| 9 | | Benzaldehyde | 0.764 | 0.897 | -17.4 | 107 | 0.00 |
| 10 | C | Phenol | 1.717 | 1.930 | -12.4 | 102 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.408 | 1.297 | 7.9 | 85 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.476 | 1.499 | -1.6 | 97 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.507 | 1.530 | -1.5 | 98 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.475 | 1.532 | -3.9 | 99 | 0.00 |
| 15 | | Benzyl Alcohol | 0.943 | 1.031 | -9.3 | 94 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 1.772 | 1.856 | -4.7 | 100 | 0.00 |
| 17 | | 2-Methylphenol | 1.162 | 1.244 | -7.1 | 99 | 0.00 |
| 18 | | Hexachloroethane | 0.492 | 0.515 | -4.7 | 100 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.050 | 1.231 | -17.2 | 103 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.604 | 1.774 | -10.6 | 102 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 101 | 0.00 |
| 22 | | Acetophenone | 0.454 | 0.478 | -5.3 | 101 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.318 | 0.338 | -6.3 | 102 | 0.00 |
| 24 | | Nitrobenzene | 0.339 | 0.353 | -4.1 | 101 | 0.00 |
| 25 | | Isophorone | 0.621 | 0.670 | -7.9 | 102 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.164 | 0.179 | -9.1 | 102 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.206 | 0.215 | -4.4 | 101 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.377 | 0.394 | -4.5 | 102 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.285 | 0.300 | -5.3 | 102 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.311 | 0.314 | -1.0 | 102 | 0.00 |
| 31 | | Naphthalene | 1.019 | 1.035 | -1.6 | 101 | 0.00 |
| 32 | | Benzoic acid | 0.182 | 0.203 | -11.5 | 105 | 0.00 |
| 33 | | 4-Chloroaniline | 0.354 | 0.406 | -14.7 | 104 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.184 | 0.186 | -1.1 | 100 | 0.00 |
| 35 | | Caprolactam | 0.109 | 0.121 | -11.0 | 103 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 0.325 | 0.348 | -7.1 | 104 | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.734 | 0.755 | -2.9 | 101 | 0.00 |
| 38 | | 1-Methylnaphthalene | 0.733 | 0.753 | -2.7 | 102 | 0.00 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 101 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.502 | 0.514 | -2.4 | 101 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 0.166 | 0.172 | -3.6 | 98 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 0.351 | 0.369 | -5.1 | 102 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 0.346 | 0.374 | -8.1 | 102 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 0.396 | 0.422 | -6.6 | 103 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 1.181 | 1.219 | -3.2 | 100 | 0.00 |
| 46 | | 1,1'-Biphenyl | 1.370 | 1.406 | -2.6 | 101 | 0.00 |
| 47 | | 2-Chloronaphthalene | 1.083 | 1.115 | -3.0 | 102 | 0.00 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
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**Instrument :**
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 48 | | 2-Nitroaniline | 0.291 | 0.330 | -13.4 | 105 | 0.00 |
| 49 | | Acenaphthylene | 1.601 | 1.671 | -4.4 | 101 | 0.00 |
| 50 | | Dimethylphthalate | 1.412 | 1.451 | -2.8 | 101 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 0.326 | 0.343 | -5.2 | 100 | 0.00 |
| 52 | C | Acenaphthene | 1.045 | 1.076 | -3.0 | 101 | 0.00 |
| 53 | | 3-Nitroaniline | 0.324 | 0.358 | -10.5 | 101 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 0.198 | 0.207 | -4.5 | 100 | 0.00 |
| 55 | | Dibenzofuran | 1.666 | 1.696 | -1.8 | 101 | 0.00 |
| 56 | P | 4-Nitrophenol | 0.297 | 0.309 | -4.0 | 100 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 0.449 | 0.486 | -8.2 | 102 | 0.00 |
| 58 | | Fluorene | 1.394 | 1.435 | -2.9 | 100 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.366 | 0.389 | -6.3 | 103 | 0.00 |
| 60 | | Diethylphthalate | 1.477 | 1.510 | -2.2 | 99 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 0.692 | 0.710 | -2.6 | 101 | 0.00 |
| 62 | | 4-Nitroaniline | 0.361 | 0.390 | -8.0 | 101 | 0.00 |
| 63 | | Azobenzene | 1.269 | 1.319 | -3.9 | 101 | 0.00 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.118 | 0.123 | -4.2 | 99 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 0.530 | 0.552 | -4.2 | 100 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 0.210 | 0.220 | -4.8 | 102 | 0.00 |
| 68 | | Hexachlorobenzene | 0.276 | 0.288 | -4.3 | 101 | 0.00 |
| 69 | | Atrazine | 0.163 | 0.182 | -11.7 | 99 | 0.00 |
| 70 | C | Pentachlorophenol | 0.159 | 0.178 | -11.9 | 103 | 0.00 |
| 71 | | Phenanthrene | 0.958 | 0.987 | -3.0 | 99 | 0.00 |
| 72 | | Anthracene | 0.935 | 0.981 | -4.9 | 100 | 0.00 |
| 73 | | Carbazole | 0.957 | 0.991 | -3.6 | 99 | 0.00 |
| 74 | | Di-n-butylphthalate | 1.053 | 1.129 | -7.2 | 99 | 0.00 |
| 75 | C | Fluoranthene | 1.163 | 1.187 | -2.1 | 99 | 0.00 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 97 | 0.00 |
| 77 | | Benzidine | 0.254 | 0.383 | -50.8# | 107 | 0.00 |
| 78 | | Pyrene | 1.100 | 1.187 | -7.9 | 98 | 0.00 |
| 79 | S | Terphenyl-d14 | 0.869 | 0.852 | 2.0 | 98 | 0.00 |
| 80 | | Butylbenzylphthalate | 0.482 | 0.522 | -8.3 | 99 | 0.00 |
| 81 | | Benzo(a)anthracene | 1.124 | 1.186 | -5.5 | 98 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 0.440 | 0.484 | -10.0 | 98 | 0.00 |
| 83 | | Chrysene | 1.087 | 1.131 | -4.0 | 99 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.641 | 0.714 | -11.4 | 99 | 0.00 |
| 85 | c | Di-n-octyl phthalate | 1.051 | 1.167 | -11.0 | 100 | 0.00 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 87 | | Indeno(1,2,3-cd)pyrene | 1.338 | 1.374 | -2.7 | 98 | 0.00 |
| 88 | | Benzo(b)fluoranthene | 1.042 | 1.098 | -5.4 | 99 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 0.974 | 1.011 | -3.8 | 99 | 0.00 |
| 90 | C | Benzo(a)pyrene | 0.912 | 0.956 | -4.8 | 99 | 0.00 |
| 91 | | Dibenzo(a,h)anthracene | 1.106 | 1.152 | -4.2 | 98 | 0.00 |
| 92 | | Benzo(g,h,i)perylene | 1.140 | 1.168 | -2.5 | 99 | 0.00 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
ICVBE102824

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | AvgRF | CCRF | %Dev Area% | Dev(min) |
|---|---|---|---|---|

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
ICVBE102824

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 20.000 | 20.000 | 0.0 | 96 | 0.00 |
| 2 | | 1,4-Dioxane | 40.000 | 39.003 | 2.5 | 95 | 0.00 |
| 3 | | Pyridine | 40.000 | 41.845 | -4.6 | 102 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 41.530 | -3.8 | 97 | 0.00 |
| 5 | S | 2-Fluorophenol | 80.000 | 82.839 | -3.5 | 99 | 0.00 |
| 6 | | Aniline | 40.000 | 46.299 | -15.7 | 101 | 0.00 |
| 7 | S | Phenol-d6 | 80.000 | 87.746 | -9.7 | 103 | 0.00 |
| 8 | | 2-Chlorophenol | 40.000 | 42.354 | -5.9 | 100 | 0.00 |
| 9 | | Benzaldehyde | 40.000 | 46.978 | -17.4 | 107 | 0.00 |
| 10 | C | Phenol | 40.000 | 44.977 | -12.4 | 102 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 36.844 | 7.9 | 85 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 40.619 | -1.5 | 97 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 40.617 | -1.5 | 98 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 41.544 | -3.9 | 99 | 0.00 |
| 15 | | Benzyl Alcohol | 40.000 | 43.735 | -9.3 | 94 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 41.877 | -4.7 | 100 | 0.00 |
| 17 | | 2-Methylphenol | 40.000 | 42.832 | -7.1 | 99 | 0.00 |
| 18 | | Hexachloroethane | 40.000 | 41.877 | -4.7 | 100 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 46.901 | -17.3 | 103 | 0.00 |
| 20 | | 3+4-Methylphenols | 40.000 | 44.240 | -10.6 | 102 | 0.00 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 101 | 0.00 |
| 22 | | Acetophenone | 40.000 | 42.082 | -5.2 | 101 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 84.816 | -6.0 | 102 | 0.00 |
| 24 | | Nitrobenzene | 40.000 | 41.612 | -4.0 | 101 | 0.00 |
| 25 | | Isophorone | 40.000 | 43.128 | -7.8 | 102 | 0.00 |
| 26 | C | 2-Nitrophenol | 40.000 | 43.773 | -9.4 | 102 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 41.704 | -4.3 | 101 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 41.799 | -4.5 | 102 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 42.044 | -5.1 | 102 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 40.415 | -1.0 | 102 | 0.00 |
| 31 | | Naphthalene | 40.000 | 40.628 | -1.6 | 101 | 0.00 |
| 32 | | Benzoic acid | 40.000 | 39.965 | 0.1 | 105 | 0.00 |
| 33 | | 4-Chloroaniline | 40.000 | 45.859 | -14.6 | 104 | 0.00 |
| 34 | C | Hexachlorobutadiene | 40.000 | 40.372 | -0.9 | 100 | 0.00 |
| 35 | | Caprolactam | 40.000 | 44.104 | -10.3 | 103 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 42.850 | -7.1 | 104 | 0.00 |
| 37 | | 2-Methylnaphthalene | 40.000 | 41.112 | -2.8 | 101 | 0.00 |
| 38 | | 1-Methylnaphthalene | 40.000 | 41.122 | -2.8 | 102 | 0.00 |
| 39 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 101 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 40.977 | -2.4 | 101 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 40.000 | 41.393 | -3.5 | 98 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 80.000 | 84.319 | -5.4 | 102 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 40.000 | 43.244 | -8.1 | 102 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 40.000 | 42.577 | -6.4 | 103 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 80.000 | 82.558 | -3.2 | 100 | 0.00 |
| 46 | | 1,1'-Biphenyl | 40.000 | 41.038 | -2.6 | 101 | 0.00 |
| 47 | | 2-Chloronaphthalene | 40.000 | 41.196 | -3.0 | 102 | 0.00 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
ICVBE102824

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 48 | | 2-Nitroaniline | 40.000 | 45.320 | -13.3 | 105 | 0.00 |
| 49 | | Acenaphthylene | 40.000 | 41.742 | -4.4 | 101 | 0.00 |
| 50 | | Dimethylphthalate | 40.000 | 41.126 | -2.8 | 101 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 40.000 | 42.124 | -5.3 | 100 | 0.00 |
| 52 | C | Acenaphthene | 40.000 | 41.182 | -3.0 | 101 | 0.00 |
| 53 | | 3-Nitroaniline | 40.000 | 44.191 | -10.5 | 101 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 40.000 | 38.780 | 3.0 | 100 | 0.00 |
| 55 | | Dibenzofuran | 40.000 | 40.705 | -1.8 | 101 | 0.00 |
| 56 | P | 4-Nitrophenol | 40.000 | 41.707 | -4.3 | 100 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 40.000 | 43.318 | -8.3 | 102 | 0.00 |
| 58 | | Fluorene | 40.000 | 41.173 | -2.9 | 100 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 40.000 | 42.441 | -6.1 | 103 | 0.00 |
| 60 | | Diethylphthalate | 40.000 | 40.913 | -2.3 | 99 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 40.000 | 41.046 | -2.6 | 101 | 0.00 |
| 62 | | 4-Nitroaniline | 40.000 | 43.251 | -8.1 | 101 | 0.00 |
| 63 | | Azobenzene | 40.000 | 41.563 | -3.9 | 101 | 0.00 |
| 64 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 100 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 40.000 | 41.750 | -4.4 | 99 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 40.000 | 41.628 | -4.1 | 100 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 40.000 | 41.822 | -4.6 | 102 | 0.00 |
| 68 | | Hexachlorobenzene | 40.000 | 41.729 | -4.3 | 101 | 0.00 |
| 69 | | Atrazine | 40.000 | 44.711 | -11.8 | 99 | 0.00 |
| 70 | C | Pentachlorophenol | 40.000 | 44.788 | -12.0 | 103 | 0.00 |
| 71 | | Phenanthrene | 40.000 | 41.217 | -3.0 | 99 | 0.00 |
| 72 | | Anthracene | 40.000 | 41.954 | -4.9 | 100 | 0.00 |
| 73 | | Carbazole | 40.000 | 41.436 | -3.6 | 99 | 0.00 |
| 74 | | Di-n-butylphthalate | 40.000 | 42.876 | -7.2 | 99 | 0.00 |
| 75 | C | Fluoranthene | 40.000 | 40.831 | -2.1 | 99 | 0.00 |
| 76 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 97 | 0.00 |
| 77 | | Benzidine | 40.000 | 60.311 | -50.8# | 107 | 0.00 |
| 78 | | Pyrene | 40.000 | 43.174 | -7.9 | 98 | 0.00 |
| 79 | S | Terphenyl-d14 | 80.000 | 78.448 | 1.9 | 98 | 0.00 |
| 80 | | Butylbenzylphthalate | 40.000 | 43.265 | -8.2 | 99 | 0.00 |
| 81 | | Benzo(a)anthracene | 40.000 | 42.205 | -5.5 | 98 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 40.000 | 43.941 | -9.9 | 98 | 0.00 |
| 83 | | Chrysene | 40.000 | 41.627 | -4.1 | 99 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 40.000 | 44.579 | -11.4 | 99 | 0.00 |
| 85 | c | Di-n-octyl phthalate | 40.000 | 44.414 | -11.0 | 100 | 0.00 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 100 | 0.00 |
| 87 | | Indeno(1,2,3-cd)pyrene | 40.000 | 41.075 | -2.7 | 98 | 0.00 |
| 88 | | Benzo(b)fluoranthene | 40.000 | 42.134 | -5.3 | 99 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 40.000 | 41.512 | -3.8 | 99 | 0.00 |
| 90 | C | Benzo(a)pyrene | 40.000 | 41.960 | -4.9 | 99 | 0.00 |
| 91 | | Dibenzo(a,h)anthracene | 40.000 | 41.651 | -4.1 | 98 | 0.00 |
| 92 | | Benzo(g,h,i)perylene | 40.000 | 40.986 | -2.5 | 99 | 0.00 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
ICVBE102824

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Raw Data

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P4595 SAS No.: P4595 SDG No.: P4595

Instrument ID: BNA_F Calibration Date(s): 10/18/2024 10/18/2024

Calibration Time(s): 10:27 13:46

LAB FILE ID: RRF2.5 = BF139844.D RRF005 = BF139845.D RRF010 = BF139846.D
RRF020 = BF139847.D RRF040 = BF139848.D RRF050 = BF139849.D

| COMPOUND | RRF2.5 | RRF005 | RRF010 | RRF020 | RRF040 | RRF050 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | | 1.465 | 1.398 | 1.331 | 1.278 | 1.179 | 1.278 | 10.1 |
| Phenol-d6 | | 1.900 | 1.818 | 1.709 | 1.647 | 1.538 | 1.655 | 10.1 |
| Nitrobenzene-d5 | | 0.365 | 0.365 | 0.372 | 0.371 | 0.354 | 0.361 | 2.9 |
| Naphthalene | | 1.209 | 1.121 | 1.091 | 1.023 | 0.958 | 1.031 | 11.2 |
| 2-Fluorobiphenyl | | 1.512 | 1.396 | 1.280 | 1.162 | 1.088 | 1.210 | 16.0 |
| Acenaphthylene | | 1.854 | 1.756 | 1.717 | 1.615 | 1.507 | 1.621 | 10.1 |
| Acenaphthene | | 1.200 | 1.136 | 1.089 | 1.044 | 0.977 | 1.049 | 9.5 |
| Fluorene | | 1.409 | 1.309 | 1.201 | 1.110 | 1.029 | 1.146 | 14.7 |
| 2,4,6-Tribromophenol | | 0.201 | 0.196 | 0.193 | 0.188 | 0.179 | 0.187 | 5.5 |
| Phenanthrene | | 1.121 | 1.035 | 0.994 | 0.933 | 0.863 | 0.945 | 11.8 |
| Anthracene | | 1.082 | 1.014 | 0.972 | 0.913 | 0.851 | 0.922 | 11.5 |
| Fluoranthene | | 1.149 | 1.108 | 1.036 | 0.943 | 0.842 | 0.955 | 15.3 |
| Pyrene | | 1.892 | 1.828 | 1.900 | 1.805 | 1.685 | 1.751 | 8.4 |
| Terphenyl-d14 | | 1.381 | 1.335 | 1.340 | 1.244 | 1.154 | 1.227 | 11.0 |
| Benzo(a)anthracene | | 1.425 | 1.355 | 1.329 | 1.331 | 1.267 | 1.302 | 6.5 |
| Chrysene | | 1.325 | 1.244 | 1.234 | 1.167 | 1.134 | 1.194 | 6.5 |
| Benzo(b)fluoranthene | | 1.317 | 1.240 | 1.319 | 1.196 | 1.105 | 1.218 | 7.1 |
| Benzo(k)fluoranthene | | 1.213 | 1.177 | 0.992 | 1.066 | 1.030 | 1.051 | 10.4 |
| Benzo(a)pyrene | | 1.030 | 1.024 | 1.018 | 1.025 | 0.974 | 1.002 | 3.1 |
| Indeno(1,2,3-cd)pyrene | | 1.209 | 1.261 | 1.307 | 1.352 | 1.299 | 1.287 | 3.8 |
| Dibenzo(a,h)anthracene | | 1.021 | 1.064 | 1.103 | 1.120 | 1.083 | 1.073 | 3.3 |
| Benzo(g,h,i)perylene | | 1.030 | 1.046 | 1.090 | 1.128 | 1.081 | 1.072 | 3.4 |

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF139844.D 5 =BF139845.D 10 =BF139846.D 20 =BF139847.D 40 =BF139848.D 50 =BF139849.D 60 =BF139850.D 80 =BF1398
51.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.651 | 0.625 | 0.603 | 0.591 | 0.571 | 0.581 | 0.548 | 0.596 | 5.74 |
| 3) | | Pyridine | | 1.622 | 1.570 | 1.522 | 1.504 | 1.386 | 1.406 | 1.326 | 1.476 | 7.26 |
| 4) | | n-Nitrosodimet... | | 0.815 | 0.800 | 0.799 | 0.806 | 0.782 | 0.794 | 0.757 | 0.793 | 2.39 |
| 5) | S | 2-Fluorophenol | | 1.465 | 1.398 | 1.331 | 1.278 | 1.179 | 1.186 | 1.106 | 1.278 | 10.10 |
| 6) | | Aniline | | 1.673 | 1.649 | 1.618 | 1.582 | 1.471 | 1.479 | 1.324 | 1.542 | 8.05 |
| 7) | S | Phenol-d6 | | 1.900 | 1.818 | 1.709 | 1.647 | 1.538 | 1.539 | 1.432 | 1.655 | 10.06 |
| 8) | | 2-Chlorophenol | | 1.503 | 1.422 | 1.358 | 1.310 | 1.212 | 1.221 | 1.116 | 1.306 | 10.24 |
| 9) | | Benzaldehyde | | | 1.137 | 1.042 | 0.940 | 0.873 | 0.853 | 0.740 | 0.931 | 15.22 |
| 10) | C | Phenol | | 1.952 | 1.832 | 1.760 | 1.712 | 1.583 | 1.601 | 1.502 | 1.706 | 9.19 |
| 11) | | bis(2-Chloroet... | | 1.470 | 1.423 | 1.359 | 1.294 | 1.251 | 1.249 | 1.183 | 1.319 | 7.82 |
| 12) | | 1,3-Dichlorobe... | | 1.718 | 1.656 | 1.544 | 1.499 | 1.392 | 1.391 | 1.294 | 1.499 | 10.19 |
| 13) | C | 1,4-Dichlorobe... | | 1.723 | 1.641 | 1.558 | 1.487 | 1.392 | 1.391 | 1.291 | 1.498 | 10.19 |
| 14) | | 1,2-Dichlorobe... | | 1.660 | 1.579 | 1.478 | 1.379 | 1.273 | 1.267 | 1.149 | 1.398 | 13.15 |
| 15) | | Benzyl Alcohol | | 1.355 | 1.299 | 1.257 | 1.213 | 1.154 | 1.146 | 1.071 | 1.214 | 8.07 |
| 16) | | 2,2'-oxybis(1-... | | 2.524 | 2.409 | 2.353 | 2.255 | 2.117 | 2.115 | 1.964 | 2.248 | 8.69 |
| 17) | | 2-Methylphenol | | 1.264 | 1.164 | 1.134 | 1.114 | 1.053 | 1.063 | 1.004 | 1.114 | 7.69 |
| 18) | | Hexachloroethane | | 0.583 | 0.571 | 0.549 | 0.541 | 0.507 | 0.511 | 0.477 | 0.534 | 7.06 |
| 19) | P | n-Nitroso-di-n... | 1.105 | 1.141 | 1.066 | 1.025 | 0.974 | 0.921 | 0.927 | 0.869 | 1.004 | 9.63 |
| 20) | | 3+4-Methylphenols | | 1.678 | 1.573 | 1.520 | 1.418 | 1.309 | 1.300 | 1.173 | 1.424 | 12.41 |
| 21) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | | |
| 22) | | Acetophenone | | 0.578 | 0.533 | 0.516 | 0.481 | 0.452 | 0.454 | 0.414 | 0.490 | 11.43 |
| 23) | S | Nitrobenzene-d5 | | 0.365 | 0.365 | 0.372 | 0.371 | 0.354 | 0.357 | 0.342 | 0.361 | 2.92 |
| 24) | | Nitrobenzene | | 0.417 | 0.402 | 0.408 | 0.403 | 0.383 | 0.388 | 0.370 | 0.396 | 4.10 |
| 25) | | Isophorone | | 0.755 | 0.709 | 0.702 | 0.679 | 0.652 | 0.660 | 0.637 | 0.685 | 5.90 |
| 26) | C | 2-Nitrophenol | | 0.124 | 0.137 | 0.150 | 0.157 | 0.158 | 0.161 | 0.157 | 0.149 | 9.22 |
| 27) | | 2,4-Dimethylph... | | 0.285 | 0.259 | 0.256 | 0.248 | 0.237 | 0.234 | 0.223 | 0.249 | 8.07 |
| 28) | | bis(2-Chloroet... | | 0.468 | 0.440 | 0.432 | 0.412 | 0.394 | 0.390 | 0.369 | 0.415 | 8.22 |
| 29) | C | 2,4-Dichloroph... | | 0.308 | 0.297 | 0.293 | 0.283 | 0.272 | 0.274 | 0.257 | 0.283 | 6.17 |
| 30) | | 1,2,4-Trichlor... | | 0.351 | 0.331 | 0.325 | 0.315 | 0.298 | 0.298 | 0.279 | 0.314 | 7.68 |
| 31) | | Naphthalene | | 1.209 | 1.121 | 1.091 | 1.023 | 0.958 | 0.944 | 0.875 | 1.031 | 11.23 |
| 32) | | Benzoic acid | | | 0.175 | 0.207 | 0.220 | 0.231 | 0.235 | 0.235 | 0.217 | 10.69 |
| 33) | | 4-Chloroaniline | | 0.397 | 0.382 | 0.368 | 0.351 | 0.332 | 0.326 | 0.306 | 0.352 | 9.26 |
| 34) | C | Hexachlorobuta... | | 0.224 | 0.206 | 0.203 | 0.197 | 0.185 | 0.187 | 0.177 | 0.197 | 7.96 |
| 35) | | Caprolactam | | 0.092 | 0.092 | 0.092 | 0.092 | 0.088 | 0.088 | 0.086 | 0.090 | 2.85 |
| 36) | C | 4-Chloro-3-met... | | 0.341 | 0.328 | 0.324 | 0.315 | 0.299 | 0.303 | 0.287 | 0.314 | 6.03 |
| 37) | | 2-Methylnaphth... | | 0.740 | 0.689 | 0.666 | 0.621 | 0.587 | 0.583 | 0.537 | 0.632 | 11.11 |
| 38) | | 1-Methylnaphth... | | 0.726 | 0.683 | 0.655 | 0.612 | 0.569 | 0.567 | 0.526 | 0.620 | 11.55 |

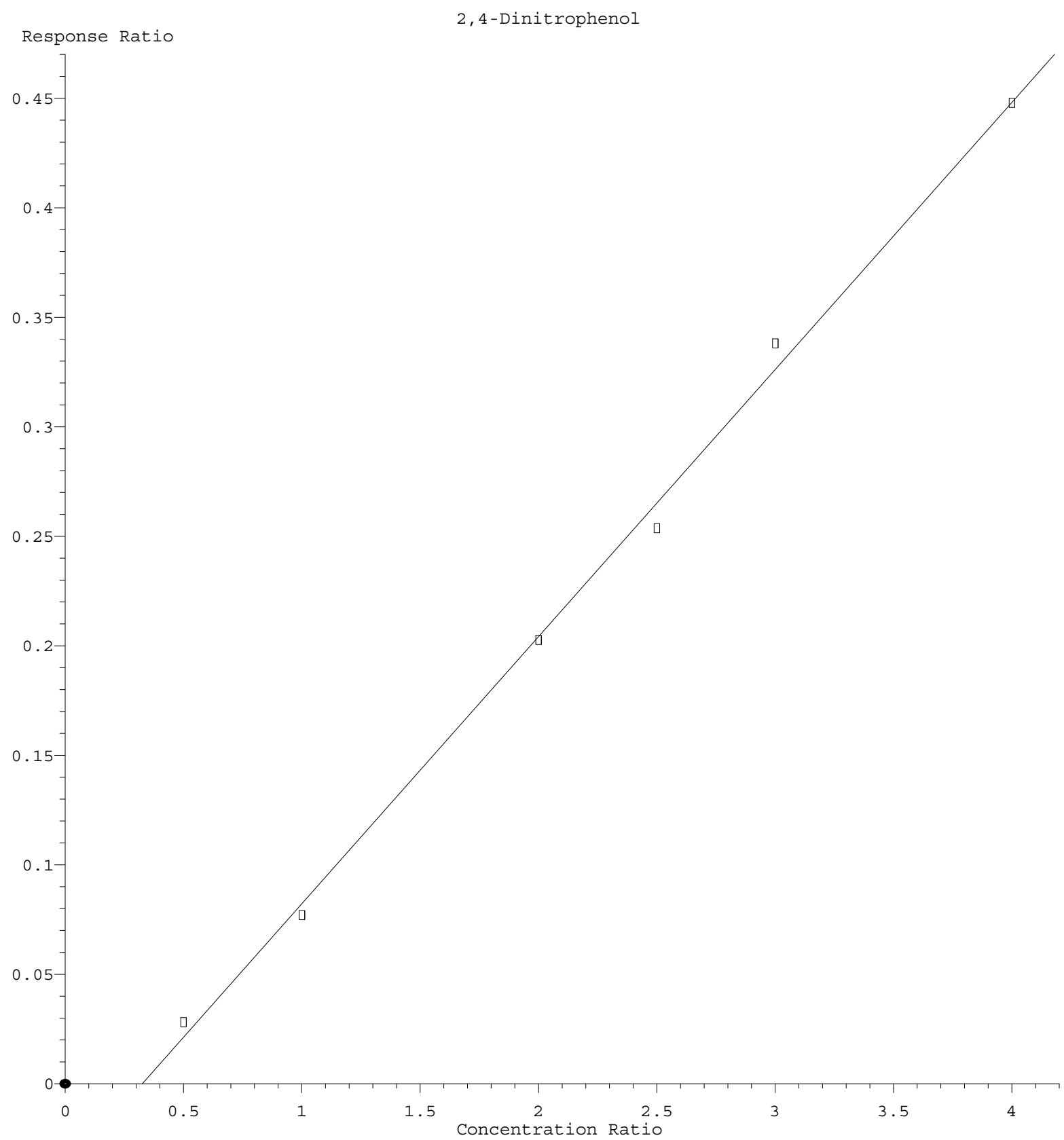
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.609 | 0.579 | 0.562 | 0.537 | 0.512 | 0.506 | 0.472 | 0.540 | 8.72 |
| 41) | P | Hexachlorocycl... | 0.185 | 0.193 | 0.198 | 0.198 | 0.186 | 0.185 | 0.169 | 0.188 | 5.28 |
| 42) | S | 2,4,6-Tribromo... | 0.201 | 0.196 | 0.193 | 0.188 | 0.179 | 0.180 | 0.173 | 0.187 | 5.47 |
| 43) | C | 2,4,6-Trichlor... | 0.405 | 0.382 | 0.400 | 0.387 | 0.363 | 0.383 | 0.354 | 0.382 | 4.80 |
| 44) | | 2,4,5-Trichlor... | 0.426 | 0.425 | 0.398 | 0.401 | 0.381 | 0.369 | 0.359 | 0.394 | 6.58 |
| 45) | S | 2-Fluorobiphenyl | 1.512 | 1.396 | 1.280 | 1.162 | 1.088 | 1.060 | 0.973 | 1.210 | 16.05 |
| 46) | | 1,1'-Biphenyl | 1.640 | 1.536 | 1.483 | 1.379 | 1.285 | 1.262 | 1.161 | 1.392 | 12.18 |
| 47) | | 2-Chloronaphth... | 1.288 | 1.225 | 1.164 | 1.111 | 1.048 | 1.040 | 0.973 | 1.121 | 9.95 |
| 48) | | 2-Nitroaniline | 0.299 | 0.318 | 0.353 | 0.365 | 0.354 | 0.362 | 0.349 | 0.343 | 7.20 |
| 49) | | Acenaphthylene | 1.854 | 1.756 | 1.717 | 1.615 | 1.507 | 1.505 | 1.394 | 1.621 | 10.06 |
| 50) | | Dimethylphthalate | 1.410 | 1.344 | 1.283 | 1.237 | 1.172 | 1.163 | 1.110 | 1.246 | 8.60 |
| 51) | | 2,6-Dinitrotol... | 0.256 | 0.266 | 0.278 | 0.280 | 0.273 | 0.274 | 0.260 | 0.270 | 3.41 |
| 52) | C | Acenaphthene | 1.200 | 1.136 | 1.089 | 1.044 | 0.977 | 0.983 | 0.913 | 1.049 | 9.55 |
| 53) | | 3-Nitroaniline | 0.270 | 0.275 | 0.296 | 0.292 | 0.276 | 0.282 | 0.256 | 0.278 | 4.84 |
| 54) | P | 2,4-Dinitrophenol | | 0.056 | 0.077 | 0.101 | 0.101 | 0.113 | 0.112 | 0.093 | 23.89 |
| 55) | | Dibenzofuran | 1.767 | 1.659 | 1.579 | 1.486 | 1.389 | 1.375 | 1.278 | 1.505 | 11.52 |
| 56) | P | 4-Nitrophenol | 0.187 | 0.207 | 0.225 | 0.232 | 0.219 | 0.220 | 0.208 | 0.214 | 6.84 |
| 57) | | 2,4-Dinitrotol... | 0.280 | 0.314 | 0.337 | 0.356 | 0.344 | 0.351 | 0.338 | 0.332 | 7.94 |
| 58) | | Fluorene | 1.409 | 1.309 | 1.201 | 1.110 | 1.029 | 1.021 | 0.944 | 1.146 | 14.68 |
| 59) | | 2,3,4,6-Tetrac... | 0.334 | 0.322 | 0.326 | 0.310 | 0.296 | 0.293 | 0.281 | 0.309 | 6.33 |
| 60) | | Diethylphthalate | 1.366 | 1.308 | 1.267 | 1.214 | 1.165 | 1.161 | 1.080 | 1.223 | 7.99 |
| 61) | | 4-Chlorophenyl... | 0.698 | 0.638 | 0.617 | 0.569 | 0.526 | 0.520 | 0.484 | 0.579 | 13.14 |
| 62) | | 4-Nitroaniline | 0.249 | 0.259 | 0.270 | 0.275 | 0.263 | 0.269 | 0.254 | 0.263 | 3.65 |
| 63) | | Azobenzene | 1.459 | 1.385 | 1.355 | 1.306 | 1.216 | 1.212 | 1.143 | 1.297 | 8.62 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.055 | 0.072 | 0.087 | 0.090 | 0.092 | 0.093 | 0.082 | 18.60 |
| 66) | c | n-Nitrosodiphe... | 0.672 | 0.641 | 0.621 | 0.595 | 0.568 | 0.561 | 0.533 | 0.599 | 8.14 |
| 67) | | 4-Bromophenyl-... | 0.230 | 0.217 | 0.211 | 0.202 | 0.197 | 0.196 | 0.189 | 0.206 | 6.98 |
| 68) | | Hexachlorobenzene | 0.258 | 0.245 | 0.237 | 0.231 | 0.217 | 0.221 | 0.212 | 0.232 | 7.20 |
| 69) | | Atrazine | 0.189 | 0.175 | 0.156 | 0.175 | 0.135 | 0.153 | 0.151 | 0.162 | 11.36 |
| 70) | C | Pentachlorophenol | 0.118 | 0.137 | 0.148 | 0.152 | 0.145 | 0.144 | 0.140 | 0.141 | 8.04 |
| 71) | | Phenanthrene | 1.121 | 1.035 | 0.994 | 0.933 | 0.863 | 0.860 | 0.807 | 0.945 | 11.79 |
| 72) | | Anthracene | 1.082 | 1.014 | 0.972 | 0.913 | 0.851 | 0.833 | 0.787 | 0.922 | 11.53 |
| 73) | | Carbazole | 1.002 | 0.964 | 0.923 | 0.846 | 0.776 | 0.772 | 0.717 | 0.857 | 12.64 |
| 74) | | Di-n-butylphth... | 1.104 | 1.071 | 1.062 | 1.014 | 0.923 | 0.909 | 0.850 | 0.990 | 9.77 |
| 75) | C | Fluoranthene | 1.149 | 1.108 | 1.036 | 0.943 | 0.842 | 0.835 | 0.772 | 0.955 | 15.34 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | 0.457 | 0.461 | 0.293 | 0.366 | 0.276 | 0.203 | 0.246 | 0.329 | 30.86 |
| 78) | | Pyrene | 1.892 | 1.828 | 1.900 | 1.805 | 1.685 | 1.649 | 1.496 | 1.751 | 8.43 |
| 79) | S | Terphenyl-d14 | 1.381 | 1.335 | 1.340 | 1.244 | 1.154 | 1.121 | 1.018 | 1.227 | 10.96 |
| 80) | | Butylbenzylpht... | 0.490 | 0.513 | 0.536 | 0.555 | 0.535 | 0.531 | 0.514 | 0.525 | 3.99 |
| 81) | | Benzo(a)anthra... | 1.425 | 1.355 | 1.329 | 1.331 | 1.267 | 1.237 | 1.169 | 1.302 | 6.48 |
| 82) | | 3,3'-Dichlorob... | 0.368 | 0.372 | 0.390 | 0.387 | 0.374 | 0.382 | 0.384 | 0.380 | 2.15 |
| 83) | | Chrysene | 1.325 | 1.244 | 1.234 | 1.167 | 1.134 | 1.151 | 1.101 | 1.194 | 6.52 |
| 84) | | Bis(2-ethylhex... | 0.520 | 0.539 | 0.577 | 0.626 | 0.620 | 0.626 | 0.614 | 0.589 | 7.48 |
| 85) | c | Di-n-octyl pht... | | 0.786 | 0.930 | 1.135 | 1.182 | 1.207 | 1.186 | 1.071 | 16.14 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.209 | 1.261 | 1.307 | 1.352 | 1.299 | 1.326 | 1.253 | 1.287 | 3.77 |
| 88) | | Benzo(b)fluora... | 1.317 | 1.240 | 1.319 | 1.196 | 1.105 | 1.239 | 1.111 | 1.218 | 7.15 |
| 89) | | Benzo(k)fluora... | 1.213 | 1.177 | 0.992 | 1.066 | 1.030 | 0.929 | 0.947 | 1.051 | 10.42 |
| 90) | C | Benzo(a)pyrene | 1.030 | 1.024 | 1.018 | 1.025 | 0.974 | 0.999 | 0.947 | 1.002 | 3.12 |
| 91) | | Dibenzo(a,h)an... | 1.021 | 1.064 | 1.103 | 1.120 | 1.083 | 1.085 | 1.036 | 1.073 | 3.31 |
| 92) | | Benzo(g,h,i)pe... | 1.030 | 1.046 | 1.090 | 1.128 | 1.081 | 1.095 | 1.035 | 1.072 | 3.37 |

(#) = Out of Range




Response = 1.220e-001 * Amt - 3.983e-002
Coef of Det (r^2) = 0.997175  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF101824.M
Calibration Table Last Updated: Fri Oct 18 15:07:50 2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139844.D
Acq On : 18 Oct 2024 10:27
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

Quant Time: Oct 18 14:15:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.887 | 152 | 190003 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.169 | 136 | 748539 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.928 | 164 | 423999 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.410 | 188 | 760140 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.051 | 240 | 519381 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.527 | 264 | 410408 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 0.000 | 112 | 0d | 0.000 | ng | |
| 7) Phenol-d6 | 0.000 | 99 | 0d | 0.000 | ng | |
| 23) Nitrobenzene-d5 | 0.000 | 82 | 0d | 0.000 | ng | |
| 42) 2,4,6-Tribromophenol | 0.000 | 330 | 0d | 0.000 | ng | |
| 45) 2-Fluorobiphenyl | 0.000 | 172 | 0d | 0.000 | ng | |
| 79) Terphenyl-d14 | 0.000 | 244 | 0d | 0.000 | ng | |
| Target Compounds | | | | | | Qvalue |
| 19) n-Nitroso-di-n-propyla... | 7.287 | 70 | 26252 | 2.754 | ng | 94 |

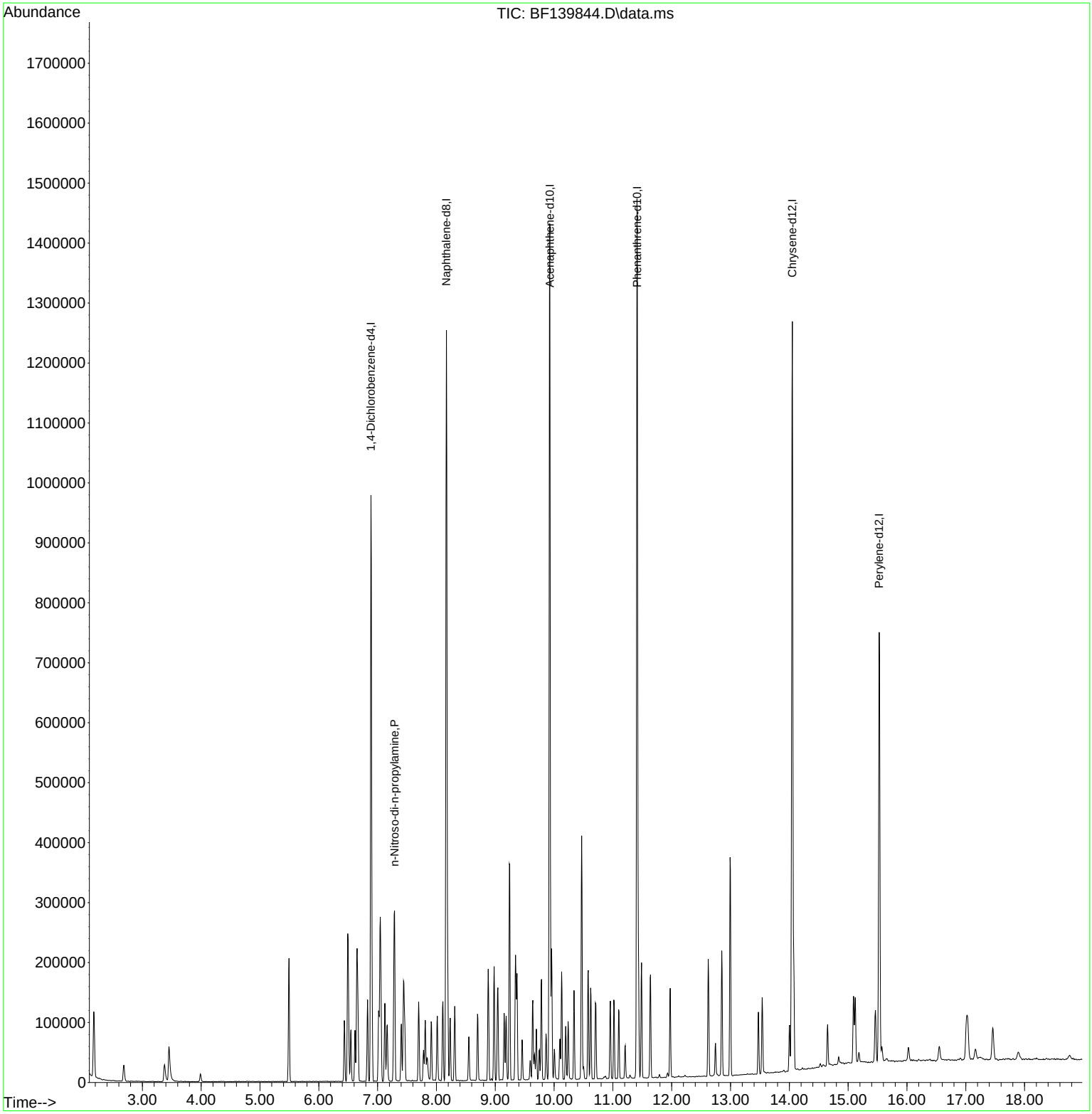
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139844.D
Acq On : 18 Oct 2024 10:27
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

Quant Time: Oct 18 14:15:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139845.D
Acq On : 18 Oct 2024 10:55
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Quant Time: Oct 18 14:16:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.887 | 152 | 189112 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.169 | 136 | 737062 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.928 | 164 | 414324 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.410 | 188 | 741430 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.051 | 240 | 477223 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.527 | 264 | 377685 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.493 | 112 | 138495 | 11.465 | ng | | 0.00 |
| 7) Phenol-d6 | 6.493 | 99 | 179648 | 11.482 | ng | | -0.02 |
| 23) Nitrobenzene-d5 | 7.445 | 82 | 134439 | 10.109 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.710 | 330 | 41682 | 10.755 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.245 | 172 | 313171 | 12.492 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.992 | 244 | 329424 | 11.248 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.687 | 88 | 30759 | 5.461 | ng | | 97 |
| 3) Pyridine | 3.452 | 79 | 76703 | 5.494 | ng | | 98 |
| 4) n-Nitrosodimethylamine | 3.375 | 42 | 38552 | 5.140 | ng | # | 96 |
| 6) Aniline | 6.545 | 93 | 79083 | 5.424 | ng | | 98 |
| 8) 2-Chlorophenol | 6.669 | 128 | 71065 | 5.754 | ng | | 98 |
| 10) Phenol | 6.510 | 94 | 92287 | 5.620 | ng | | 95 |
| 11) bis(2-Chloroethyl)ether | 6.616 | 93 | 69504 | 5.575 | ng | | 98 |
| 12) 1,3-Dichlorobenzene | 6.828 | 146 | 81239 | 5.731 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.904 | 146 | 81442 | 5.750 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.057 | 146 | 78458 | 5.936 | ng | | 97 |
| 15) Benzyl Alcohol | 7.016 | 79 | 64060 | 5.582 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 119350 | 5.614 | ng | | 100 |
| 17) 2-Methylphenol | 7.122 | 107 | 59770 | 5.676 | ng | | 96 |
| 18) Hexachloroethane | 7.404 | 117 | 27566 | 5.458 | ng | | 96 |
| 19) n-Nitroso-di-n-propyla... | 7.287 | 70 | 53958 | 5.686 | ng | | 97 |
| 20) 3+4-Methylphenols | 7.275 | 107 | 79329 | 5.890 | ng | | 92 |
| 22) Acetophenone | 7.287 | 105 | 106522 | 5.900 | ng | | 98 |
| 24) Nitrobenzene | 7.463 | 77 | 76831 | 5.269 | ng | | 96 |
| 25) Isophorone | 7.698 | 82 | 139084 | 5.510 | ng | | 100 |
| 26) 2-Nitrophenol | 7.781 | 139 | 22867 | 4.157 | ng | | 95 |
| 27) 2,4-Dimethylphenol | 7.810 | 122 | 52430 | 5.716 | ng | | 97 |
| 28) bis(2-Chloroethoxy)met... | 7.916 | 93 | 86298 | 5.643 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 8.016 | 162 | 56772 | 5.434 | ng | | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.110 | 180 | 64640 | 5.592 | ng | | 99 |
| 31) Naphthalene | 8.192 | 128 | 222725 | 5.859 | ng | | 99 |
| 33) 4-Chloroaniline | 8.234 | 127 | 73196 | 5.647 | ng | | 99 |
| 34) Hexachlorobutadiene | 8.310 | 225 | 41186 | 5.670 | ng | | 97 |
| 35) Caprolactam | 8.557 | 113 | 16989 | 5.114 | ng | | 98 |
| 36) 4-Chloro-3-methylphenol | 8.704 | 107 | 62903 | 5.438 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.881 | 142 | 136292 | 5.854 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.981 | 142 | 133747 | 5.856 | ng | | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.045 | 216 | 63046 | 5.640 | ng | | 100 |
| 41) Hexachlorocyclopentadiene | 9.039 | 237 | 19121 | 4.916 | ng | | 97 |
| 43) 2,4,6-Trichlorophenol | 9.151 | 196 | 41997 | 5.307 | ng | | 98 |
| 44) 2,4,5-Trichlorophenol | 9.187 | 196 | 44086 | 5.399 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.345 | 154 | 169920 | 5.891 | ng | | 99 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139845.D
Acq On : 18 Oct 2024 10:55
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Quant Time: Oct 18 14:16:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 47) 2-Chloronaphthalene | 9.369 | 162 | 133456 | 5.745 | ng | | 99 |
| 48) 2-Nitroaniline | 9.457 | 65 | 30999 | 4.363 | ng | | 99 |
| 49) Acenaphthylene | 9.786 | 152 | 192014 | 5.717 | ng | | 99 |
| 50) Dimethylphthalate | 9.639 | 163 | 146096 | 5.661 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.698 | 165 | 26490 | 4.741 | ng | | 96 |
| 52) Acenaphthene | 9.957 | 154 | 124288 | 5.721 | ng | | 100 |
| 53) 3-Nitroaniline | 9.863 | 138 | 27995 | 4.858 | ng | # | 94 |
| 55) Dibenzofuran | 10.128 | 168 | 182985 | 5.870 | ng | | 98 |
| 56) 4-Nitrophenol | 10.004 | 139 | 19402 | 4.376 | ng | | 89 |
| 57) 2,4-Dinitrotoluene | 10.098 | 165 | 29038 | 4.226 | ng | | 92 |
| 58) Fluorene | 10.469 | 166 | 145913 | 6.146 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.239 | 232 | 34636 | 5.411 | ng | | 97 |
| 60) Diethylphthalate | 10.339 | 149 | 141466 | 5.583 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204 | 72331 | 6.033 | ng | | 96 |
| 62) 4-Nitroaniline | 10.469 | 138 | 25747 | 4.731 | ng | | 96 |
| 63) Azobenzene | 10.622 | 77 | 151158 | 5.627 | ng | | 99 |
| 66) n-Nitrosodiphenylamine | 10.581 | 169 | 124472 | 5.609 | ng | | 100 |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248 | 42707 | 5.591 | ng | | 94 |
| 68) Hexachlorobenzene | 11.016 | 284 | 47895 | 5.575 | ng | | 98 |
| 69) Atrazine | 11.104 | 200 | 35075 | 5.835 | ng | | 99 |
| 70) Pentachlorophenol | 11.210 | 266 | 21781 | 4.178 | ng | | 93 |
| 71) Phenanthrene | 11.433 | 178 | 207716 | 5.931 | ng | | 98 |
| 72) Anthracene | 11.486 | 178 | 200621 | 5.871 | ng | | 99 |
| 73) Carbazole | 11.639 | 167 | 185743 | 5.845 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.975 | 149 | 204647 | 5.574 | ng | | 99 |
| 75) Fluoranthene | 12.622 | 202 | 213038 | 6.017 | ng | | 100 |
| 77) Benzidine | 12.745 | 184 | 54501 | 7.022 | ng | | 99 |
| 78) Pyrene | 12.851 | 202 | 225742 | 5.404 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.474 | 149 | 58502 | 4.671 | ng | | 100 |
| 81) Benzo(a)anthracene | 14.039 | 228 | 170026 | 5.473 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 14.004 | 252 | 43937 | 4.851 | ng | | 100 |
| 83) Chrysene | 14.074 | 228 | 158121 | 5.551 | ng | | 98 |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149 | 62085 | 4.419 | ng | | 97 |
| 87) Indeno(1,2,3-cd)pyrene | 17.010 | 276 | 114185 | 4.699 | ng | | 98 |
| 88) Benzo(b)fluoranthene | 15.092 | 252 | 124353 | 5.405 | ng | | 100 |
| 89) Benzo(k)fluoranthene | 15.121 | 252 | 114525 | 5.772 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.463 | 252 | 97243 | 5.137 | ng | | 100 |
| 91) Dibenzo(a,h)anthracene | 17.033 | 278 | 96416 | 4.757 | ng | | 99 |
| 92) Benzo(g,h,i)perylene | 17.457 | 276 | 97292 | 4.805 | ng | | 99 |

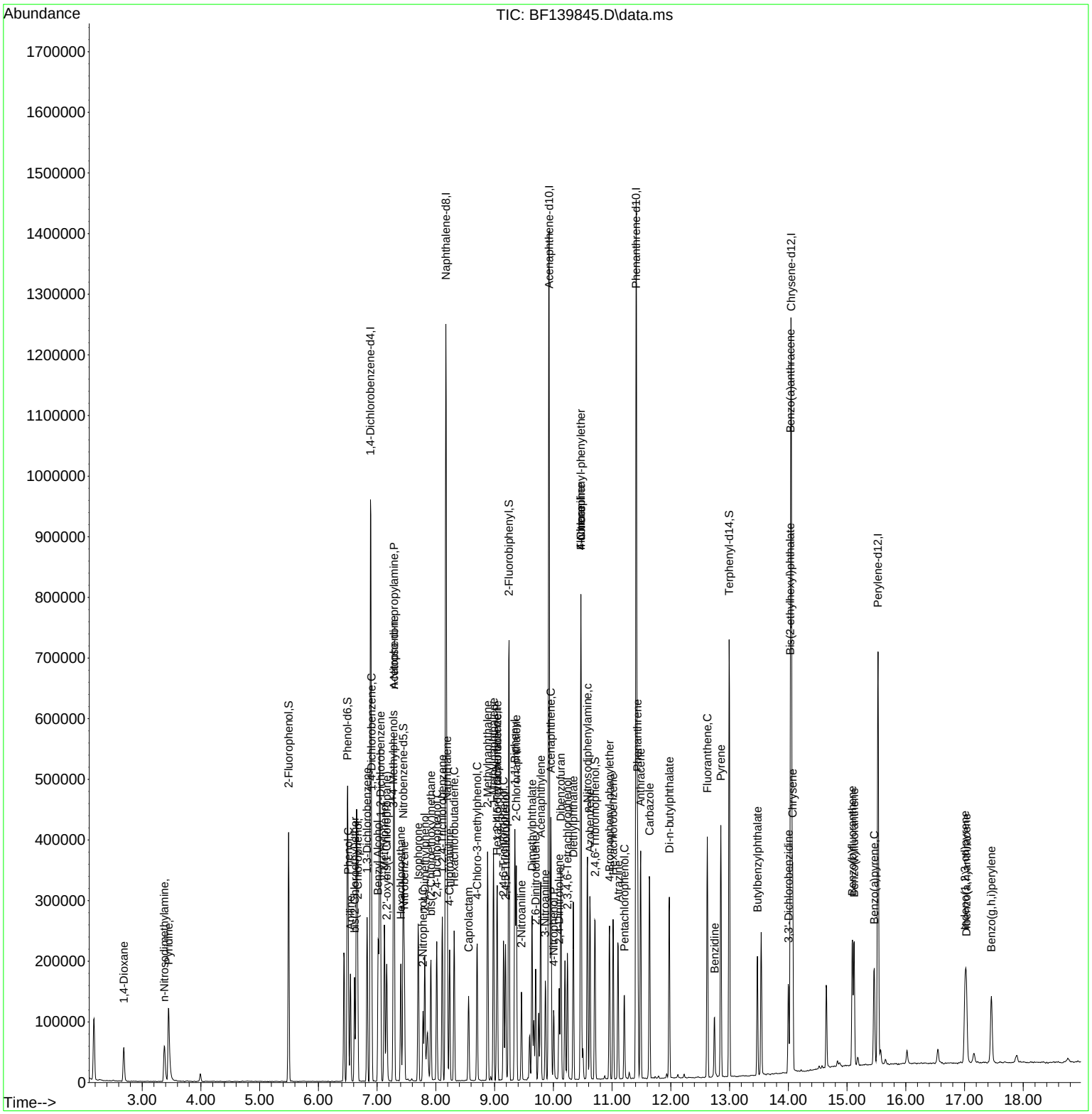
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139845.D
Acq On : 18 Oct 2024 10:55
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Quant Time: Oct 18 14:16:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139846.D
Acq On : 18 Oct 2024 11:23
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

Quant Time: Oct 18 14:17:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.887 | 152 | 188831 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.169 | 136 | 733621 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.928 | 164 | 411556 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.410 | 188 | 732661 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.051 | 240 | 452443 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.527 | 264 | 375863 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.493 | 112 | 264054 | 21.891 | ng | | 0.00 |
| 7) Phenol-d6 | 6.498 | 99 | 343334 | 21.977 | ng | | -0.01 |
| 23) Nitrobenzene-d5 | 7.445 | 82 | 268128 | 20.257 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.710 | 330 | 80655 | 20.952 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.245 | 172 | 574563 | 23.073 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.998 | 244 | 603787 | 21.745 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.681 | 88 | 58969 | 10.485 | ng | | 97 |
| 3) Pyridine | 3.440 | 79 | 148260 | 10.636 | ng | | 97 |
| 4) n-Nitrosodimethylamine | 3.375 | 42 | 75504 | 10.081 | ng | | 96 |
| 6) Aniline | 6.546 | 93 | 155680 | 10.692 | ng | | 98 |
| 8) 2-Chlorophenol | 6.669 | 128 | 134290 | 10.890 | ng | | 99 |
| 9) Benzaldehyde | 6.440 | 77 | 107330 | 12.213 | ng | | 98 |
| 10) Phenol | 6.510 | 94 | 172965 | 10.549 | ng | | 98 |
| 11) bis(2-Chloroethyl)ether | 6.616 | 93 | 134367 | 10.794 | ng | | 100 |
| 12) 1,3-Dichlorobenzene | 6.828 | 146 | 156338 | 11.045 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.904 | 146 | 154957 | 10.957 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.057 | 146 | 149129 | 11.299 | ng | | 98 |
| 15) Benzyl Alcohol | 7.022 | 79 | 122669 | 10.704 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 227443 | 10.715 | ng | | 99 |
| 17) 2-Methylphenol | 7.128 | 107 | 109901 | 10.452 | ng | | 98 |
| 18) Hexachloroethane | 7.404 | 117 | 53892 | 10.686 | ng | | 99 |
| 19) n-Nitroso-di-n-propyla... | 7.293 | 70 | 100635 | 10.621 | ng | | 98 |
| 20) 3+4-Methylphenols | 7.275 | 107 | 148497 | 11.041 | ng | # | 90 |
| 22) Acetophenone | 7.293 | 105 | 195595 | 10.885 | ng | | 96 |
| 24) Nitrobenzene | 7.463 | 77 | 147356 | 10.154 | ng | | 98 |
| 25) Isophorone | 7.698 | 82 | 260247 | 10.359 | ng | | 98 |
| 26) 2-Nitrophenol | 7.781 | 139 | 50159 | 9.162 | ng | | 100 |
| 27) 2,4-Dimethylphenol | 7.810 | 122 | 94947 | 10.400 | ng | | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.916 | 93 | 161423 | 10.605 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 8.016 | 162 | 109102 | 10.492 | ng | | 100 |
| 30) 1,2,4-Trichlorobenzene | 8.110 | 180 | 121232 | 10.537 | ng | | 99 |
| 31) Naphthalene | 8.192 | 128 | 411053 | 10.864 | ng | | 99 |
| 32) Benzoic acid | 7.869 | 122 | 64294 | 8.075 | ng | | 99 |
| 33) 4-Chloroaniline | 8.234 | 127 | 140021 | 10.853 | ng | | 100 |
| 34) Hexachlorobutadiene | 8.310 | 225 | 75740 | 10.477 | ng | | 99 |
| 35) Caprolactam | 8.569 | 113 | 33908 | 10.256 | ng | | 99 |
| 36) 4-Chloro-3-methylphenol | 8.704 | 107 | 120339 | 10.452 | ng | | 98 |
| 37) 2-Methylnaphthalene | 8.881 | 142 | 252554 | 10.899 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.981 | 142 | 250609 | 11.023 | ng | | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.045 | 216 | 119227 | 10.738 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 9.039 | 237 | 39754 | 10.290 | ng | | 98 |
| 43) 2,4,6-Trichlorophenol | 9.151 | 196 | 78578 | 9.996 | ng | | 99 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139846.D
Acq On : 18 Oct 2024 11:23
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

Quant Time: Oct 18 14:17:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

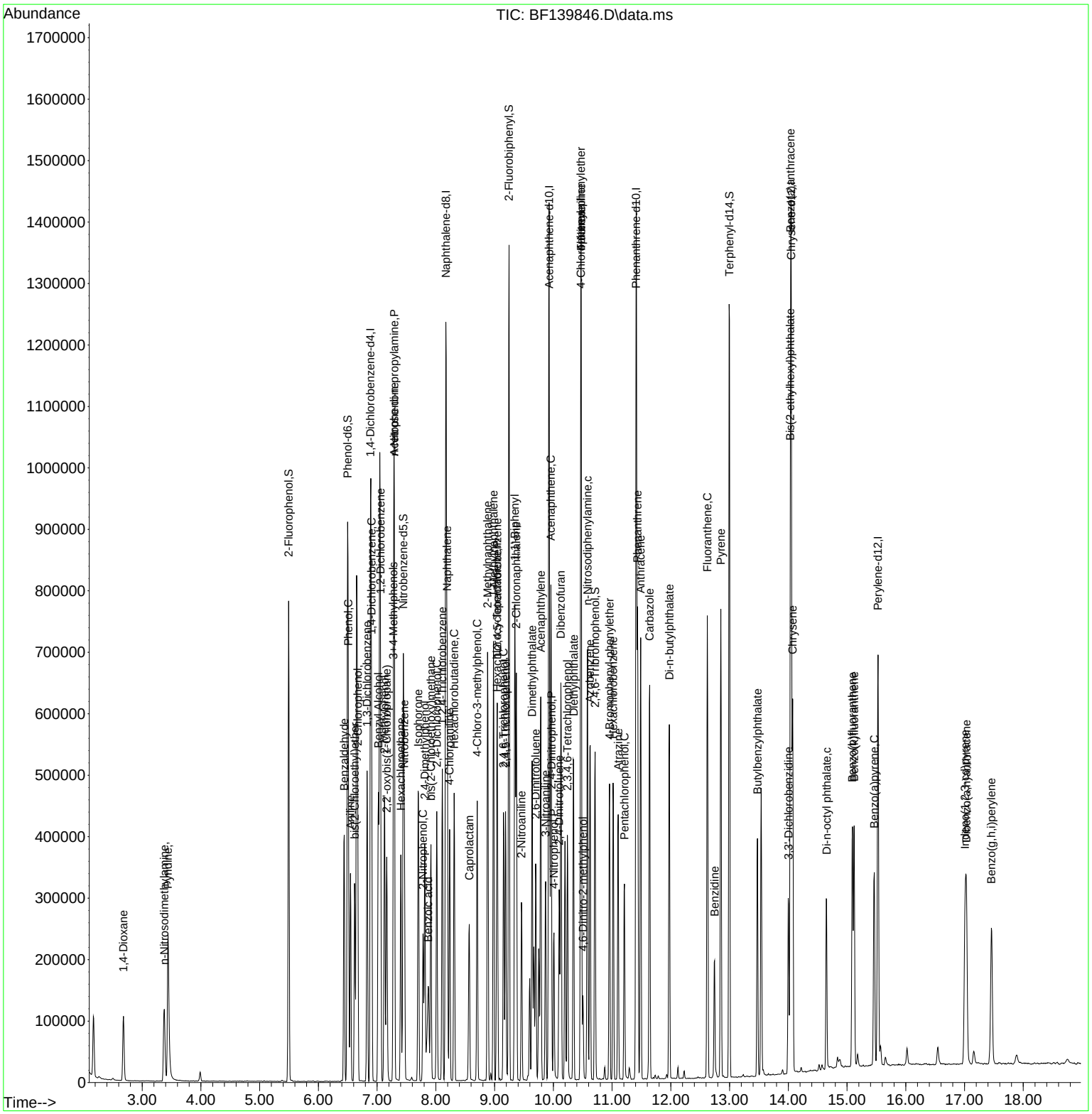
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.187 | 196 | 87482 | 10.787 | ng | | 100 |
| 46) 1,1'-Biphenyl | 9.345 | 154 | 316146 | 11.035 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.369 | 162 | 252140 | 10.927 | ng | | 98 |
| 48) 2-Nitroaniline | 9.457 | 65 | 65425 | 9.270 | ng | | 98 |
| 49) Acenaphthylene | 9.787 | 152 | 361398 | 10.833 | ng | | 99 |
| 50) Dimethylphthalate | 9.639 | 163 | 276645 | 10.792 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 9.698 | 165 | 54824 | 9.877 | ng | | 95 |
| 52) Acenaphthene | 9.957 | 154 | 233749 | 10.832 | ng | | 98 |
| 53) 3-Nitroaniline | 9.869 | 138 | 56574 | 9.884 | ng | # | 98 |
| 54) 2,4-Dinitrophenol | 9.969 | 184 | 11577 | 11.138 | ng | # | 1 |
| 55) Dibenzofuran | 10.128 | 168 | 341446 | 11.028 | ng | | 98 |
| 56) 4-Nitrophenol | 10.010 | 139 | 42688 | 9.694 | ng | | 98 |
| 57) 2,4-Dinitrotoluene | 10.098 | 165 | 64666 | 9.474 | ng | | 94 |
| 58) Fluorene | 10.475 | 166 | 269323 | 11.420 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.239 | 232 | 66170 | 10.408 | ng | | 97 |
| 60) Diethylphthalate | 10.345 | 149 | 269178 | 10.694 | ng | | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204 | 131191 | 11.016 | ng | | 97 |
| 62) 4-Nitroaniline | 10.475 | 138 | 53288 | 9.857 | ng | | 98 |
| 63) Azobenzene | 10.622 | 77 | 284960 | 10.679 | ng | | 100 |
| 65) 4,6-Dinitro-2-methylph... | 10.504 | 198 | 20120 | 6.732 | ng | | 97 |
| 66) n-Nitrosodiphenylamine | 10.581 | 169 | 234741 | 10.705 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248 | 79420 | 10.522 | ng | | 98 |
| 68) Hexachlorobenzene | 11.016 | 284 | 89927 | 10.594 | ng | | 98 |
| 69) Atrazine | 11.104 | 200 | 64267 | 10.819 | ng | | 99 |
| 70) Pentachlorophenol | 11.210 | 266 | 50361 | 9.775 | ng | | 100 |
| 71) Phenanthrene | 11.433 | 178 | 379233 | 10.958 | ng | | 99 |
| 72) Anthracene | 11.486 | 178 | 371391 | 10.999 | ng | | 99 |
| 73) Carbazole | 11.639 | 167 | 353253 | 11.249 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.975 | 149 | 392482 | 10.818 | ng | | 99 |
| 75) Fluoranthene | 12.622 | 202 | 405919 | 11.602 | ng | | 99 |
| 77) Benzidine | 12.745 | 184 | 104253 | 14.168 | ng | | 99 |
| 78) Pyrene | 12.851 | 202 | 413606 | 10.444 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.474 | 149 | 116053 | 9.774 | ng | | 100 |
| 81) Benzo(a)anthracene | 14.039 | 228 | 306594 | 10.410 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 14.004 | 252 | 84205 | 9.806 | ng | | 99 |
| 83) Chrysene | 14.074 | 228 | 281467 | 10.423 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149 | 121932 | 9.153 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.651 | 149 | 177824 | 7.339 | ng | | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 17.010 | 276 | 236914 | 9.798 | ng | | 99 |
| 88) Benzo(b)fluoranthene | 15.092 | 252 | 232988 | 10.176 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.121 | 252 | 221219 | 11.203 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.463 | 252 | 192493 | 10.217 | ng | | 100 |
| 91) Dibenzo(a,h)anthracene | 17.033 | 278 | 199946 | 9.912 | ng | | 99 |
| 92) Benzo(g,h,i)perylene | 17.457 | 276 | 196609 | 9.758 | ng | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139846.D
Acq On : 18 Oct 2024 11:23
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

Quant Time: Oct 18 14:17:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139847.D
Acq On : 18 Oct 2024 11:52
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Quant Time: Oct 18 14:18:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.893 | 152 | 192582 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.175 | 136 | 735124 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.928 | 164 | 413023 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.410 | 188 | 724973 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.051 | 240 | 402251 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.527 | 264 | 371811 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.498 | 112 | 512648 | 41.673 | ng | 0.00 |
| 7) Phenol-d6 | 6.504 | 99 | 658086 | 41.304 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.451 | 82 | 546550 | 41.206 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.710 | 330 | 159165 | 41.199 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.245 | 172 | 1057523 | 42.316 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.998 | 244 | 1078101 | 43.673 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.681 | 88 | 116188 | 20.257 | ng | 98 |
| 3) Pyridine | 3.440 | 79 | 293019 | 20.611 | ng | 98 |
| 4) n-Nitrosodimethylamine | 3.381 | 42 | 153824 | 20.138 | ng | 99 |
| 6) Aniline | 6.551 | 93 | 311561 | 20.982 | ng | 99 |
| 8) 2-Chlorophenol | 6.669 | 128 | 261502 | 20.794 | ng | 98 |
| 9) Benzaldehyde | 6.440 | 77 | 200586 | 22.379 | ng | 98 |
| 10) Phenol | 6.516 | 94 | 338933 | 20.269 | ng | 98 |
| 11) bis(2-Chloroethyl)ether | 6.622 | 93 | 261690 | 20.612 | ng | 99 |
| 12) 1,3-Dichlorobenzene | 6.828 | 146 | 297432 | 20.603 | ng | 99 |
| 13) 1,4-Dichlorobenzene | 6.910 | 146 | 300107 | 20.808 | ng | 98 |
| 14) 1,2-Dichlorobenzene | 7.063 | 146 | 284645 | 21.146 | ng | 99 |
| 15) Benzyl Alcohol | 7.022 | 79 | 242106 | 20.715 | ng | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 453174 | 20.933 | ng | 99 |
| 17) 2-Methylphenol | 7.128 | 107 | 218455 | 20.371 | ng | 99 |
| 18) Hexachloroethane | 7.404 | 117 | 105775 | 20.566 | ng | 98 |
| 19) n-Nitroso-di-n-propyla... | 7.293 | 70 | 197390 | 20.427 | ng | 97 |
| 20) 3+4-Methylphenols | 7.281 | 107 | 292795 | 21.346 | ng | 96 |
| 22) Acetophenone | 7.293 | 105 | 379127 | 21.056 | ng | 99 |
| 24) Nitrobenzene | 7.469 | 77 | 299625 | 20.604 | ng | 99 |
| 25) Isophorone | 7.704 | 82 | 516119 | 20.502 | ng | 100 |
| 26) 2-Nitrophenol | 7.787 | 139 | 110497 | 20.141 | ng | 97 |
| 27) 2,4-Dimethylphenol | 7.816 | 122 | 187930 | 20.544 | ng | 98 |
| 28) bis(2-Chloroethoxy)met... | 7.916 | 93 | 317497 | 20.816 | ng | 99 |
| 29) 2,4-Dichlorophenol | 8.016 | 162 | 215409 | 20.673 | ng | 98 |
| 30) 1,2,4-Trichlorobenzene | 8.110 | 180 | 238559 | 20.691 | ng | 100 |
| 31) Naphthalene | 8.192 | 128 | 801971 | 21.153 | ng | 99 |
| 32) Benzoic acid | 7.892 | 122 | 152028 | 19.054 | ng | 99 |
| 33) 4-Chloroaniline | 8.239 | 127 | 270435 | 20.919 | ng | 98 |
| 34) Hexachlorobutadiene | 8.310 | 225 | 149527 | 20.641 | ng | 100 |
| 35) Caprolactam | 8.587 | 113 | 67624 | 20.411 | ng | 100 |
| 36) 4-Chloro-3-methylphenol | 8.704 | 107 | 238461 | 20.668 | ng | 100 |
| 37) 2-Methylnaphthalene | 8.881 | 142 | 489343 | 21.075 | ng | 100 |
| 38) 1-Methylnaphthalene | 8.981 | 142 | 481797 | 21.149 | ng | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.045 | 216 | 232025 | 20.823 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 9.039 | 237 | 81579 | 21.041 | ng | 99 |
| 43) 2,4,6-Trichlorophenol | 9.157 | 196 | 165112 | 20.930 | ng | 99 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139847.D
Acq On : 18 Oct 2024 11:52
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Quant Time: Oct 18 14:18:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.192 | 196 | 164517 | 20.213 | ng | | 98 |
| 46) 1,1'-Biphenyl | 9.345 | 154 | 612342 | 21.297 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.375 | 162 | 480916 | 20.767 | ng | | 99 |
| 48) 2-Nitroaniline | 9.463 | 65 | 146002 | 20.614 | ng | | 98 |
| 49) Acenaphthylene | 9.786 | 152 | 709161 | 21.182 | ng | | 99 |
| 50) Dimethylphthalate | 9.645 | 163 | 529745 | 20.592 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.704 | 165 | 114726 | 20.596 | ng | | 98 |
| 52) Acenaphthene | 9.963 | 154 | 449770 | 20.768 | ng | | 99 |
| 53) 3-Nitroaniline | 9.869 | 138 | 122186 | 21.271 | ng | | 99 |
| 54) 2,4-Dinitrophenol | 9.975 | 184 | 31801 | 19.148 | ng | # | 67 |
| 55) Dibenzofuran | 10.134 | 168 | 652249 | 20.991 | ng | | 98 |
| 56) 4-Nitrophenol | 10.010 | 139 | 93060 | 21.057 | ng | | 95 |
| 57) 2,4-Dinitrotoluene | 10.104 | 165 | 139381 | 20.348 | ng | | 98 |
| 58) Fluorene | 10.475 | 166 | 496012 | 20.958 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.245 | 232 | 134842 | 21.133 | ng | | 98 |
| 60) Diethylphthalate | 10.345 | 149 | 523458 | 20.723 | ng | | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204 | 254950 | 21.331 | ng | | 97 |
| 62) 4-Nitroaniline | 10.481 | 138 | 111683 | 20.586 | ng | | 98 |
| 63) Azobenzene | 10.628 | 77 | 559837 | 20.906 | ng | | 99 |
| 65) 4,6-Dinitro-2-methylph... | 10.510 | 198 | 52180 | 17.645 | ng | | 100 |
| 66) n-Nitrosodiphenylamine | 10.581 | 169 | 449925 | 20.736 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248 | 153196 | 20.512 | ng | | 98 |
| 68) Hexachlorobenzene | 11.022 | 284 | 172091 | 20.488 | ng | | 99 |
| 69) Atrazine | 11.104 | 200 | 113089 | 19.240 | ng | | 99 |
| 70) Pentachlorophenol | 11.210 | 266 | 107595 | 21.106 | ng | | 99 |
| 71) Phenanthrene | 11.439 | 178 | 720363 | 21.036 | ng | | 100 |
| 72) Anthracene | 11.486 | 178 | 704417 | 21.083 | ng | | 99 |
| 73) Carbazole | 11.639 | 167 | 669328 | 21.540 | ng | | 100 |
| 74) Di-n-butylphthalate | 11.975 | 149 | 769779 | 21.442 | ng | | 99 |
| 75) Fluoranthene | 12.622 | 202 | 751337 | 21.703 | ng | | 99 |
| 77) Benzidine | 12.745 | 184 | 118035 | 18.042 | ng | | 100 |
| 78) Pyrene | 12.851 | 202 | 764077 | 21.700 | ng | | 100 |
| 80) Butylbenzylphthalate | 13.474 | 149 | 215683 | 20.432 | ng | | 98 |
| 81) Benzo(a)anthracene | 14.039 | 228 | 534525 | 20.413 | ng | | 100 |
| 82) 3,3'-Dichlorobenzidine | 14.004 | 252 | 156770 | 20.534 | ng | | 100 |
| 83) Chrysene | 14.074 | 228 | 496447 | 20.678 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149 | 232200 | 19.606 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.651 | 149 | 373952 | 17.359 | ng | | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 17.015 | 276 | 485858 | 20.312 | ng | | 100 |
| 88) Benzo(b)fluoranthene | 15.092 | 252 | 490566 | 21.659 | ng | | 100 |
| 89) Benzo(k)fluoranthene | 15.121 | 252 | 368835 | 18.883 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.463 | 252 | 378617 | 20.316 | ng | | 100 |
| 91) Dibenzo(a,h)anthracene | 17.039 | 278 | 410285 | 20.561 | ng | | 99 |
| 92) Benzo(g,h,i)perylene | 17.468 | 276 | 405140 | 20.326 | ng | | 99 |

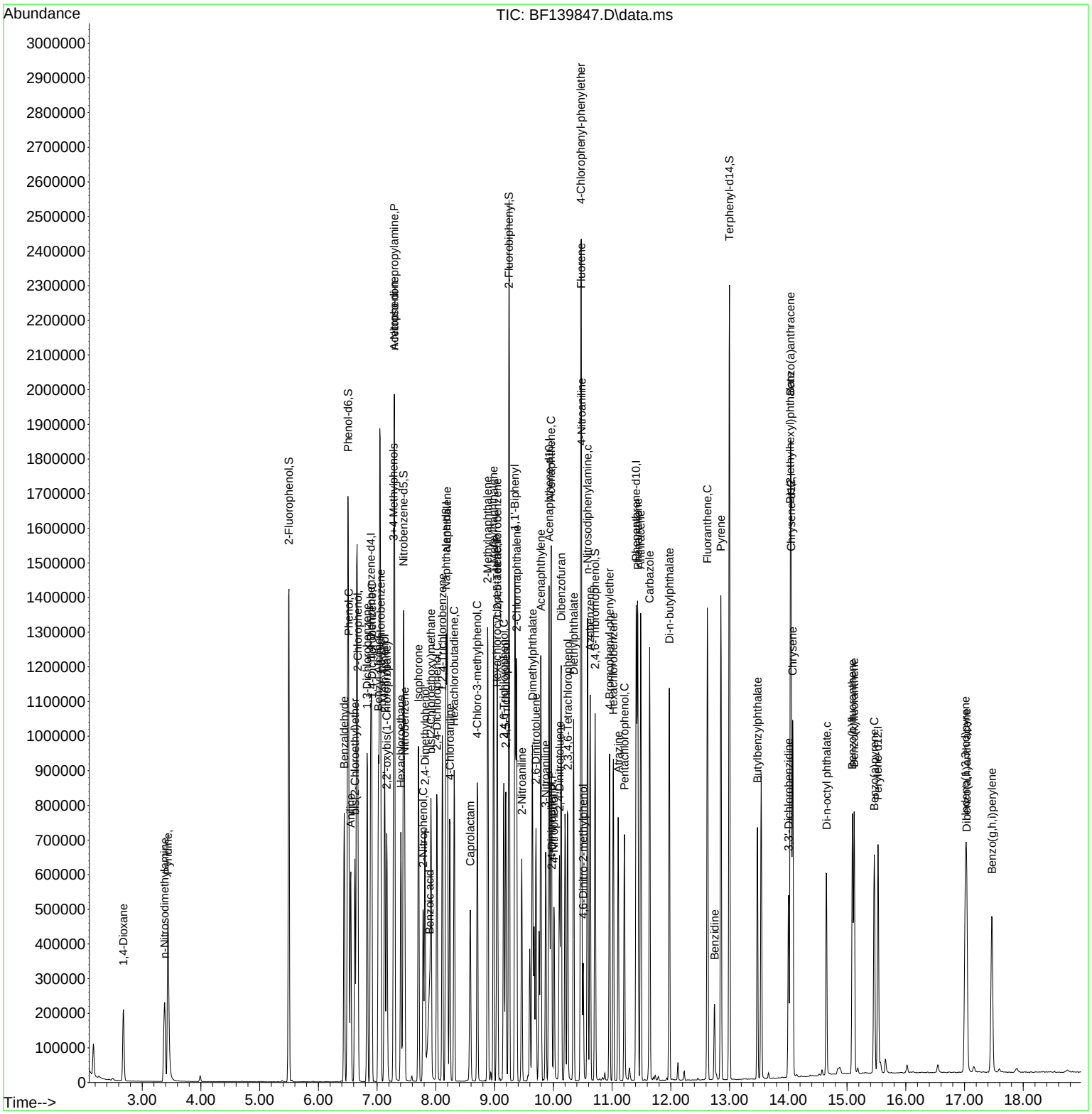
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139847.D
Acq On : 18 Oct 2024 11:52
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Quant Time: Oct 18 14:18:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139848.D
Acq On : 18 Oct 2024 12:20
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:18:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.892 | 152 | 181899 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.175 | 136 | 688880 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.927 | 164 | 379753 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.416 | 188 | 663459 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.051 | 240 | 345800 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.527 | 264 | 365076 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.498 | 112 | 929569 | 80.002 | ng | 0.00 |
| 7) Phenol-d6 | 6.510 | 99 | 1197998 | 79.607 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.451 | 82 | 1021808 | 82.209 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.716 | 330 | 285205 | 80.292 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.251 | 172 | 1764495 | 76.791 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.998 | 244 | 1721125 | 81.103 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.687 | 88 | 214958 | 39.679 | ng | 100 |
| 3) Pyridine | 3.446 | 79 | 547145 | 40.746 | ng | 100 |
| 4) n-Nitrosodimethylamine | 3.398 | 42 | 293138 | 40.631 | ng | 100 |
| 6) Aniline | 6.551 | 93 | 575402 | 41.026 | ng | 100 |
| 8) 2-Chlorophenol | 6.675 | 128 | 476614 | 40.124 | ng | 100 |
| 9) Benzaldehyde | 6.439 | 77 | 341959 | 40.393 | ng | 100 |
| 10) Phenol | 6.522 | 94 | 622748m | 39.429 | ng | |
| 11) bis(2-Chloroethyl)ether | 6.628 | 93 | 470765 | 39.258 | ng | 100 |
| 12) 1,3-Dichlorobenzene | 6.834 | 146 | 545252 | 39.988 | ng | 100 |
| 13) 1,4-Dichlorobenzene | 6.910 | 146 | 541068 | 39.718 | ng | 100 |
| 14) 1,2-Dichlorobenzene | 7.063 | 146 | 501857 | 39.473 | ng | 100 |
| 15) Benzyl Alcohol | 7.028 | 79 | 441461 | 39.991 | ng | 100 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.169 | 45 | 820216 | 40.113 | ng | 100 |
| 17) 2-Methylphenol | 7.133 | 107 | 405109 | 39.996 | ng | 100 |
| 18) Hexachloroethane | 7.404 | 117 | 196637 | 40.478 | ng | 100 |
| 19) n-Nitroso-di-n-propyla... | 7.304 | 70 | 354454 | 38.835 | ng | 100 |
| 20) 3+4-Methylphenols | 7.286 | 107 | 515857 | 39.818 | ng | 100 |
| 22) Acetophenone | 7.298 | 105 | 663304 | 39.312 | ng | 100 |
| 24) Nitrobenzene | 7.475 | 77 | 555115 | 40.735 | ng | 100 |
| 25) Isophorone | 7.710 | 82 | 935400 | 39.651 | ng | 100 |
| 26) 2-Nitrophenol | 7.786 | 139 | 216916 | 42.193 | ng | 100 |
| 27) 2,4-Dimethylphenol | 7.816 | 122 | 341985 | 39.894 | ng | 100 |
| 28) bis(2-Chloroethoxy)met... | 7.922 | 93 | 567188 | 39.683 | ng | 100 |
| 29) 2,4-Dichlorophenol | 8.022 | 162 | 390330 | 39.976 | ng | 100 |
| 30) 1,2,4-Trichlorobenzene | 8.116 | 180 | 434274 | 40.195 | ng | 100 |
| 31) Naphthalene | 8.198 | 128 | 1409796 | 39.681 | ng | 100 |
| 32) Benzoic acid | 7.922 | 122 | 302443 | 40.451 | ng | 100 |
| 33) 4-Chloroaniline | 8.239 | 127 | 483982 | 39.950 | ng | 100 |
| 34) Hexachlorobutadiene | 8.316 | 225 | 271315 | 39.967 | ng | 100 |
| 35) Caprolactam | 8.610 | 113 | 126585 | 40.772 | ng | 100 |
| 36) 4-Chloro-3-methylphenol | 8.710 | 107 | 433727 | 40.116 | ng | 100 |
| 37) 2-Methylnaphthalene | 8.886 | 142 | 856111 | 39.345 | ng | 100 |
| 38) 1-Methylnaphthalene | 8.986 | 142 | 842638 | 39.471 | ng | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.051 | 216 | 407511 | 39.776 | ng | 100 |
| 41) Hexachlorocyclopentadiene | 9.039 | 237 | 150540 | 42.229 | ng | 100 |
| 43) 2,4,6-Trichlorophenol | 9.157 | 196 | 293577 | 40.474 | ng | 100 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139848.D
Acq On : 18 Oct 2024 12:20
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 18 14:18:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.192 | 196 | 304213 | 40.651 | ng | 100 |
| 46) 1,1'-Biphenyl | 9.351 | 154 | 1047094 | 39.608 | ng | 100 |
| 47) 2-Chloronaphthalene | 9.375 | 162 | 843452 | 39.613 | ng | 100 |
| 48) 2-Nitroaniline | 9.463 | 65 | 277165 | 42.562 | ng | 100 |
| 49) Acenaphthylene | 9.792 | 152 | 1226273 | 39.837 | ng | 100 |
| 50) Dimethylphthalate | 9.651 | 163 | 939670 | 39.726 | ng | 100 |
| 51) 2,6-Dinitrotoluene | 9.710 | 165 | 212956 | 41.580 | ng | 100 |
| 52) Acenaphthene | 9.963 | 154 | 792756 | 39.811 | ng | 100 |
| 53) 3-Nitroaniline | 9.874 | 138 | 222098 | 42.051 | ng | 100 |
| 54) 2,4-Dinitrophenol | 9.974 | 184 | 76948 | 39.739 | ng | 100 |
| 55) Dibenzofuran | 10.133 | 168 | 1128670 | 39.505 | ng | 100 |
| 56) 4-Nitrophenol | 10.022 | 139 | 175913 | 43.292 | ng | 100 |
| 57) 2,4-Dinitrotoluene | 10.110 | 165 | 270604 | 42.965 | ng | 100 |
| 58) Fluorene | 10.474 | 166 | 843048 | 38.742 | ng | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.245 | 232 | 235175 | 40.087 | ng | 100 |
| 60) Diethylphthalate | 10.351 | 149 | 922384 | 39.715 | ng | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204 | 432393 | 39.347 | ng | 100 |
| 62) 4-Nitroaniline | 10.486 | 138 | 208926 | 41.884 | ng | 100 |
| 63) Azobenzene | 10.627 | 77 | 991989 | 40.289 | ng | 100 |
| 65) 4,6-Dinitro-2-methylph... | 10.516 | 198 | 115824 | 42.799 | ng | 100 |
| 66) n-Nitrosodiphenylamine | 10.586 | 169 | 789753 | 39.772 | ng | 100 |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248 | 268509 | 39.285 | ng | 100 |
| 68) Hexachlorobenzene | 11.021 | 284 | 306919 | 39.927 | ng | 100 |
| 69) Atrazine | 11.110 | 200 | 232078 | 43.145 | ng | 100 |
| 70) Pentachlorophenol | 11.210 | 266 | 201559 | 43.204 | ng | 100 |
| 71) Phenanthrene | 11.439 | 178 | 1238155 | 39.508 | ng | 100 |
| 72) Anthracene | 11.492 | 178 | 1211718 | 39.628 | ng | 100 |
| 73) Carbazole | 11.639 | 167 | 1122566 | 39.475 | ng | 100 |
| 74) Di-n-butylphthalate | 11.974 | 149 | 1345878 | 40.965 | ng | 100 |
| 75) Fluoranthene | 12.627 | 202 | 1251202 | 39.493 | ng | 100 |
| 77) Benzidine | 12.745 | 184 | 252893 | 44.967 | ng | 100 |
| 78) Pyrene | 12.857 | 202 | 1248309 | 41.241 | ng | 100 |
| 80) Butylbenzylphthalate | 13.474 | 149 | 383831 | 42.297 | ng | 100 |
| 81) Benzo(a)anthracene | 14.039 | 228 | 920698 | 40.901 | ng | 100 |
| 82) 3,3'-Dichlorobenzidine | 14.004 | 252 | 267769 | 40.798 | ng | 100 |
| 83) Chrysene | 14.080 | 228 | 806950 | 39.098 | ng | 100 |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149 | 432750 | 42.504 | ng | 100 |
| 85) Di-n-octyl phthalate | 14.651 | 149 | 785179 | 42.399 | ng | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 17.021 | 276 | 987345 | 42.039 | ng | 100 |
| 88) Benzo(b)fluoranthene | 15.098 | 252 | 873168 | 39.263 | ng | 100 |
| 89) Benzo(k)fluoranthene | 15.127 | 252 | 778470 | 40.589 | ng | 100 |
| 90) Benzo(a)pyrene | 15.468 | 252 | 748507 | 40.905 | ng | 100 |
| 91) Dibenzo(a,h)anthracene | 17.045 | 278 | 818044 | 41.752 | ng | 100 |
| 92) Benzo(g,h,i)perylene | 17.480 | 276 | 823727 | 42.090 | ng | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

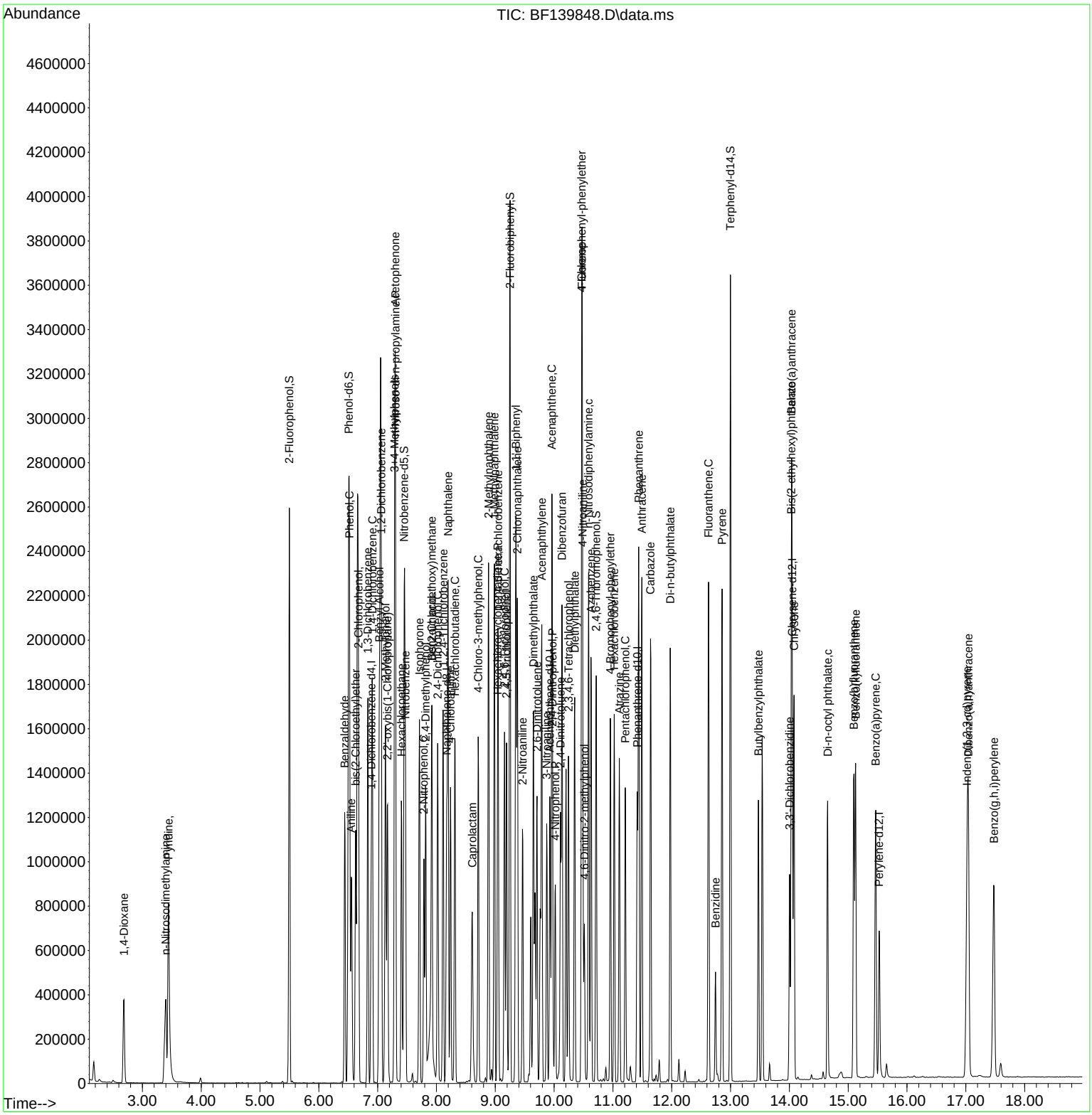
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139848.D
Acq On : 18 Oct 2024 12:20
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 18 14:18:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139849.D
Acq On : 18 Oct 2024 12:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 18 14:19:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.892 | 152 | 197235 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.175 | 136 | 739665 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.927 | 164 | 405194 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.416 | 188 | 694873 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.051 | 240 | 349496 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.527 | 264 | 390757 | 20.000 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.498 | 112 | 1162820 | 92.295 | ng | | 0.00 |
| 7) Phenol-d6 | 6.510 | 99 | 1517079 | 92.972 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.457 | 82 | 1310450 | 98.193 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.716 | 330 | 362330 | 95.600 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.251 | 172 | 2204460 | 89.915 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.998 | 244 | 2015874 | 93.988 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.687 | 88 | 281572 | 47.933 | ng | | 99 |
| 3) Pyridine | 3.446 | 79 | 683175 | 46.920 | ng | | 99 |
| 4) n-Nitrosodimethylamine | 3.404 | 42 | 385387 | 49.264 | ng | | 97 |
| 6) Aniline | 6.557 | 93 | 725204 | 47.686 | ng | | 98 |
| 8) 2-Chlorophenol | 6.675 | 128 | 597810 | 46.414 | ng | | 98 |
| 9) Benzaldehyde | 6.439 | 77 | 430623 | 46.911 | ng | | 100 |
| 10) Phenol | 6.528 | 94 | 780406m | 45.569 | ng | | |
| 11) bis(2-Chloroethyl)ether | 6.628 | 93 | 617014 | 47.453 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 6.834 | 146 | 686600 | 46.439 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.910 | 146 | 686616 | 46.483 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.063 | 146 | 627851 | 45.543 | ng | | 99 |
| 15) Benzyl Alcohol | 7.028 | 79 | 569012 | 47.538 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.169 | 45 | 1043921 | 47.084 | ng | | 100 |
| 17) 2-Methylphenol | 7.134 | 107 | 519035 | 47.259 | ng | | 99 |
| 18) Hexachloroethane | 7.404 | 117 | 250100 | 47.480 | ng | | 100 |
| 19) n-Nitroso-di-n-propyla... | 7.310 | 70 | 454173 | 45.892 | ng | | 99 |
| 20) 3+4-Methylphenols | 7.292 | 107 | 645650 | 45.961 | ng | # | 88 |
| 22) Acetophenone | 7.304 | 105 | 835908 | 46.140 | ng | | 97 |
| 24) Nitrobenzene | 7.475 | 77 | 707970 | 48.385 | ng | | 100 |
| 25) Isophorone | 7.710 | 82 | 1205277 | 47.583 | ng | | 99 |
| 26) 2-Nitrophenol | 7.786 | 139 | 292634 | 53.013 | ng | | 99 |
| 27) 2,4-Dimethylphenol | 7.822 | 122 | 439040 | 47.699 | ng | | 98 |
| 28) bis(2-Chloroethoxy)met... | 7.922 | 93 | 728968 | 47.500 | ng | | 100 |
| 29) 2,4-Dichlorophenol | 8.028 | 162 | 502930 | 47.971 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 8.116 | 180 | 550757 | 47.476 | ng | | 99 |
| 31) Naphthalene | 8.198 | 128 | 1770616 | 46.415 | ng | | 100 |
| 32) Benzoic acid | 7.933 | 122 | 426532 | 53.131 | ng | | 100 |
| 33) 4-Chloroaniline | 8.245 | 127 | 613822 | 47.189 | ng | | 99 |
| 34) Hexachlorobutadiene | 8.316 | 225 | 343002 | 47.058 | ng | | 100 |
| 35) Caprolactam | 8.616 | 113 | 162260 | 48.675 | ng | | 98 |
| 36) 4-Chloro-3-methylphenol | 8.716 | 107 | 553487 | 47.678 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.886 | 142 | 1085491 | 46.462 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.986 | 142 | 1052879 | 45.933 | ng | | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.051 | 216 | 518960 | 47.474 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 9.039 | 237 | 188234 | 49.488 | ng | | 99 |
| 43) 2,4,6-Trichlorophenol | 9.157 | 196 | 367373 | 47.468 | ng | | 99 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139849.D
Acq On : 18 Oct 2024 12:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:19:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.192 | 196 | 385963 | 48.336 | ng | | 98 |
| 46) 1,1'-Biphenyl | 9.351 | 154 | 1301562 | 46.143 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.375 | 162 | 1061417 | 46.720 | ng | | 99 |
| 48) 2-Nitroaniline | 9.469 | 65 | 358283 | 51.564 | ng | | 97 |
| 49) Acenaphthylene | 9.792 | 152 | 1526583 | 46.479 | ng | | 99 |
| 50) Dimethylphthalate | 9.651 | 163 | 1187472 | 47.050 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 9.710 | 165 | 277023 | 50.693 | ng | | 99 |
| 52) Acenaphthene | 9.963 | 154 | 989603 | 46.576 | ng | | 100 |
| 53) 3-Nitroaniline | 9.880 | 138 | 279467 | 49.591 | ng | | 100 |
| 54) 2,4-Dinitrophenol | 9.980 | 184 | 102786 | 48.105 | ng | # | 18 |
| 55) Dibenzofuran | 10.133 | 168 | 1407211 | 46.162 | ng | | 99 |
| 56) 4-Nitrophenol | 10.022 | 139 | 221410 | 51.068 | ng | | 97 |
| 57) 2,4-Dinitrotoluene | 10.110 | 165 | 348628 | 51.878 | ng | | 97 |
| 58) Fluorene | 10.480 | 166 | 1042268 | 44.889 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.251 | 232 | 300306 | 47.975 | ng | | 99 |
| 60) Diethylphthalate | 10.351 | 149 | 1180411 | 47.634 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204 | 532654 | 45.427 | ng | | 98 |
| 62) 4-Nitroaniline | 10.492 | 138 | 266320 | 50.037 | ng | | 99 |
| 63) Azobenzene | 10.633 | 77 | 1231644 | 46.881 | ng | | 98 |
| 65) 4,6-Dinitro-2-methylph... | 10.522 | 198 | 156461 | 55.202 | ng | | 94 |
| 66) n-Nitrosodiphenylamine | 10.586 | 169 | 987295 | 47.472 | ng | | 100 |
| 67) 4-Bromophenyl-phenylether | 10.963 | 248 | 341790 | 47.746 | ng | | 97 |
| 68) Hexachlorobenzene | 11.027 | 284 | 376968 | 46.823 | ng | | 98 |
| 69) Atrazine | 11.110 | 200 | 234998 | 41.713 | ng | | 99 |
| 70) Pentachlorophenol | 11.216 | 266 | 252064 | 51.587 | ng | | 98 |
| 71) Phenanthrene | 11.439 | 178 | 1500010 | 45.700 | ng | | 99 |
| 72) Anthracene | 11.492 | 178 | 1478655 | 46.172 | ng | | 99 |
| 73) Carbazole | 11.645 | 167 | 1348098 | 45.263 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.974 | 149 | 1602928 | 46.583 | ng | | 100 |
| 75) Fluoranthene | 12.627 | 202 | 1462936 | 44.089 | ng | | 99 |
| 77) Benzidine | 12.745 | 184 | 240940 | 42.388 | ng | | 99 |
| 78) Pyrene | 12.857 | 202 | 1471893 | 48.113 | ng | | 100 |
| 80) Butylbenzylphthalate | 13.474 | 149 | 467242 | 50.944 | ng | | 100 |
| 81) Benzo(a)anthracene | 14.045 | 228 | 1107235 | 48.667 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 14.004 | 252 | 326706 | 49.251 | ng | | 98 |
| 83) Chrysene | 14.080 | 228 | 990517 | 47.484 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149 | 541828 | 52.655 | ng | | 100 |
| 85) Di-n-octyl phthalate | 14.651 | 149 | 1033054 | 55.195 | ng | | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 17.027 | 276 | 1268552 | 50.463 | ng | | 100 |
| 88) Benzo(b)fluoranthene | 15.098 | 252 | 1079928 | 45.369 | ng | | 100 |
| 89) Benzo(k)fluoranthene | 15.127 | 252 | 1006425 | 49.026 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.468 | 252 | 951346 | 48.573 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 17.045 | 278 | 1058119 | 50.456 | ng | | 100 |
| 92) Benzo(g,h,i)perylene | 17.480 | 276 | 1055618 | 50.394 | ng | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

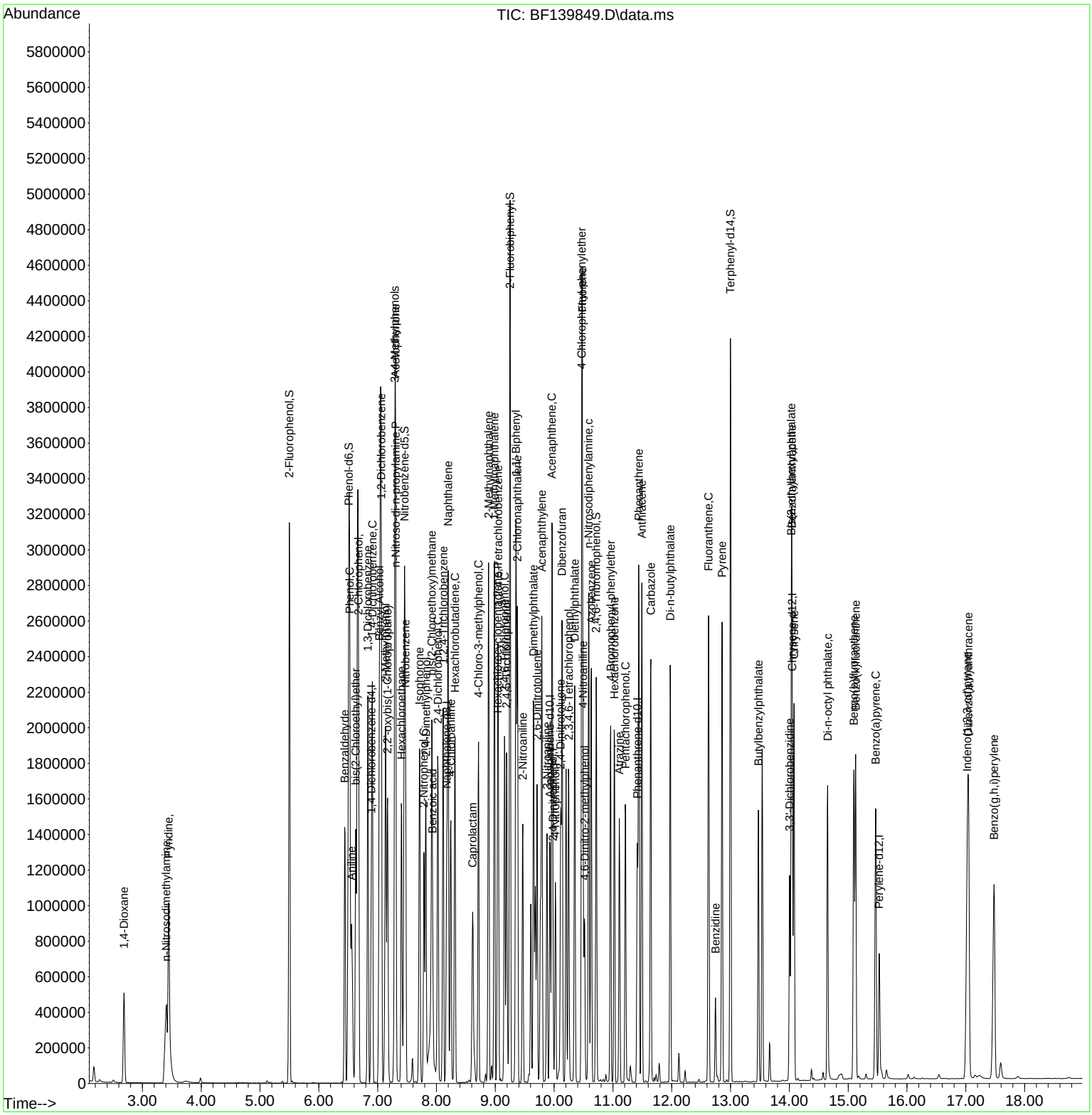
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139849.D
Acq On : 18 Oct 2024 12:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 18 14:19:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139850.D
Acq On : 18 Oct 2024 13:17
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 18 14:20:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.893 | 152 | 189346 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.175 | 136 | 712033 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.928 | 164 | 389299 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.416 | 188 | 667372 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.057 | 240 | 337032 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.527 | 264 | 377203 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.499 | 112 | 1347774 | 111.432 | ng | 0.00 |
| 7) Phenol-d6 | 6.516 | 99 | 1748088 | 111.592 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.457 | 82 | 1523975 | 118.624 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.722 | 330 | 420891 | 115.586 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.251 | 172 | 2475821 | 105.106 | ng | 0.00 |
| 79) Terphenyl-d14 | 13.004 | 244 | 2266127 | 109.563 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.687 | 88 | 330127 | 58.541 | ng | 98 |
| 3) Pyridine | 3.446 | 79 | 798529 | 57.127 | ng | 99 |
| 4) n-Nitrosodimethylamine | 3.410 | 42 | 451209 | 60.081 | ng | 98 |
| 6) Aniline | 6.551 | 93 | 840113 | 57.544 | ng | 100 |
| 8) 2-Chlorophenol | 6.675 | 128 | 693549 | 56.091 | ng | 96 |
| 9) Benzaldehyde | 6.440 | 77 | 484510 | 54.980 | ng | 99 |
| 10) Phenol | 6.528 | 94 | 909456m | 55.317 | ng | |
| 11) bis(2-Chloroethyl)ether | 6.628 | 93 | 709494 | 56.838 | ng | 99 |
| 12) 1,3-Dichlorobenzene | 6.834 | 146 | 790296 | 55.679 | ng | 98 |
| 13) 1,4-Dichlorobenzene | 6.910 | 146 | 790397 | 55.738 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 7.063 | 146 | 719470 | 54.363 | ng | 99 |
| 15) Benzyl Alcohol | 7.028 | 79 | 650971 | 56.651 | ng | 98 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.169 | 45 | 1201584 | 56.453 | ng | 99 |
| 17) 2-Methylphenol | 7.134 | 107 | 603882 | 57.276 | ng | 99 |
| 18) Hexachloroethane | 7.404 | 117 | 290250 | 57.398 | ng | 100 |
| 19) n-Nitroso-di-n-propyla... | 7.310 | 70 | 526516 | 55.418 | ng | 99 |
| 20) 3+4-Methylphenols | 7.293 | 107 | 738542 | 54.764 | ng | 93 |
| 22) Acetophenone | 7.304 | 105 | 969975 | 55.618 | ng | 99 |
| 24) Nitrobenzene | 7.475 | 77 | 828015 | 58.785 | ng | 98 |
| 25) Isophorone | 7.716 | 82 | 1409786 | 57.816 | ng | 100 |
| 26) 2-Nitrophenol | 7.787 | 139 | 344300 | 64.793 | ng | 100 |
| 27) 2,4-Dimethylphenol | 7.822 | 122 | 500332 | 56.468 | ng | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.922 | 93 | 832755 | 56.369 | ng | 99 |
| 29) 2,4-Dichlorophenol | 8.028 | 162 | 584871 | 57.952 | ng | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.116 | 180 | 635946 | 56.947 | ng | 99 |
| 31) Naphthalene | 8.198 | 128 | 2016330 | 54.907 | ng | 99 |
| 32) Benzoic acid | 7.945 | 122 | 502169 | 64.980 | ng | 98 |
| 33) 4-Chloroaniline | 8.245 | 127 | 695566 | 55.548 | ng | 99 |
| 34) Hexachlorobutadiene | 8.316 | 225 | 399483 | 56.934 | ng | 99 |
| 35) Caprolactam | 8.622 | 113 | 188948 | 58.880 | ng | 97 |
| 36) 4-Chloro-3-methylphenol | 8.716 | 107 | 646732 | 57.872 | ng | 100 |
| 37) 2-Methylnaphthalene | 8.887 | 142 | 1245977 | 55.401 | ng | 99 |
| 38) 1-Methylnaphthalene | 8.987 | 142 | 1211981 | 54.926 | ng | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.051 | 216 | 591461 | 56.315 | ng | 100 |
| 41) Hexachlorocyclopentadiene | 9.039 | 237 | 216567 | 59.262 | ng | 100 |
| 43) 2,4,6-Trichlorophenol | 9.157 | 196 | 447702 | 60.209 | ng | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139850.D
Acq On : 18 Oct 2024 13:17
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:20:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.198 | 196 | 431080 | 56.191 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.351 | 154 | 1474193 | 54.396 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.375 | 162 | 1214856 | 55.657 | ng | | 98 |
| 48) 2-Nitroaniline | 9.469 | 65 | 423080 | 63.375 | ng | | 97 |
| 49) Acenaphthylene | 9.792 | 152 | 1758248 | 55.718 | ng | | 99 |
| 50) Dimethylphthalate | 9.657 | 163 | 1358812 | 56.037 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.710 | 165 | 320076 | 60.963 | ng | | 97 |
| 52) Acenaphthene | 9.969 | 154 | 1148095 | 56.242 | ng | | 98 |
| 53) 3-Nitroaniline | 9.881 | 138 | 328790 | 60.726 | ng | | 98 |
| 54) 2,4-Dinitrophenol | 9.981 | 184 | 131611 | 61.938 | ng | # | 29 |
| 55) Dibenzofuran | 10.139 | 168 | 1605572 | 54.819 | ng | | 100 |
| 56) 4-Nitrophenol | 10.028 | 139 | 256728 | 61.631 | ng | | 100 |
| 57) 2,4-Dinitrotoluene | 10.116 | 165 | 410361 | 63.558 | ng | | 99 |
| 58) Fluorene | 10.481 | 166 | 1192018 | 53.435 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.251 | 232 | 342475 | 56.946 | ng | | 99 |
| 60) Diethylphthalate | 10.351 | 149 | 1355992 | 56.954 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204 | 606730 | 53.858 | ng | | 98 |
| 62) 4-Nitroaniline | 10.498 | 138 | 314525 | 61.507 | ng | | 98 |
| 63) Azobenzene | 10.633 | 77 | 1415762 | 56.090 | ng | | 99 |
| 65) 4,6-Dinitro-2-methylph... | 10.522 | 198 | 184974 | 67.951 | ng | | 99 |
| 66) n-Nitrosodiphenylamine | 10.592 | 169 | 1122831 | 56.214 | ng | | 100 |
| 67) 4-Bromophenyl-phenylether | 10.963 | 248 | 392570 | 57.100 | ng | | 98 |
| 68) Hexachlorobenzene | 11.028 | 284 | 442187 | 57.187 | ng | | 98 |
| 69) Atrazine | 11.116 | 200 | 307149 | 56.767 | ng | | 99 |
| 70) Pentachlorophenol | 11.216 | 266 | 289014 | 61.587 | ng | | 99 |
| 71) Phenanthrene | 11.439 | 178 | 1721763 | 54.618 | ng | | 99 |
| 72) Anthracene | 11.492 | 178 | 1667221 | 54.206 | ng | | 99 |
| 73) Carbazole | 11.645 | 167 | 1545085 | 54.015 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.975 | 149 | 1819929 | 55.069 | ng | | 100 |
| 75) Fluoranthene | 12.627 | 202 | 1671405 | 52.448 | ng | | 99 |
| 77) Benzidine | 12.745 | 184 | 205548 | 37.499 | ng | | 99 |
| 78) Pyrene | 12.857 | 202 | 1667489 | 56.522 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.474 | 149 | 537039 | 60.719 | ng | | 98 |
| 81) Benzo(a)anthracene | 14.045 | 228 | 1250382 | 56.992 | ng | | 100 |
| 82) 3,3'-Dichlorobenzidine | 14.004 | 252 | 386072 | 60.353 | ng | | 99 |
| 83) Chrysene | 14.080 | 228 | 1163808 | 57.855 | ng | | 100 |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149 | 632594 | 63.749 | ng | | 100 |
| 85) Di-n-octyl phthalate | 14.651 | 149 | 1220737 | 67.634 | ng | | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 17.027 | 276 | 1500084 | 61.817 | ng | | 99 |
| 88) Benzo(b)fluoranthene | 15.098 | 252 | 1402395 | 61.033 | ng | | 100 |
| 89) Benzo(k)fluoranthene | 15.127 | 252 | 1051303 | 53.053 | ng | | 100 |
| 90) Benzo(a)pyrene | 15.468 | 252 | 1129942 | 59.764 | ng | | 100 |
| 91) Dibenzo(a,h)anthracene | 17.051 | 278 | 1228124 | 60.667 | ng | | 99 |
| 92) Benzo(g,h,i)perylene | 17.486 | 276 | 1238955 | 61.272 | ng | | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

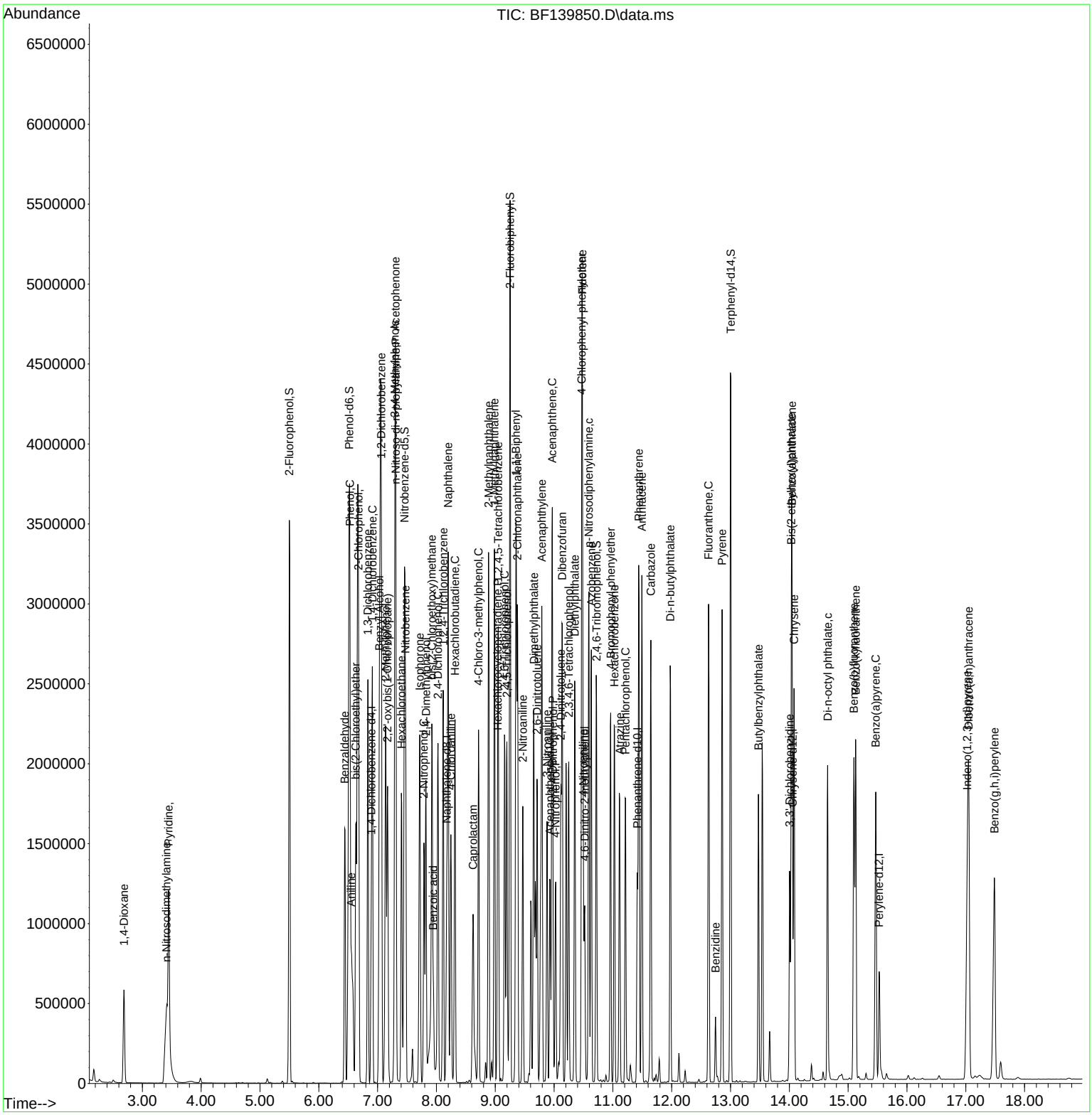
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139850.D
Acq On : 18 Oct 2024 13:17
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 18 14:20:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139851.D
Acq On : 18 Oct 2024 13:46
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:21:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.892 | 152 | 187399 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.175 | 136 | 693285 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.933 | 164 | 377723 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.416 | 188 | 633721 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.057 | 240 | 323513 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.533 | 264 | 374491 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.504 | 112 | 1657822 | 138.491 | ng | | 0.00 |
| 7) Phenol-d6 | 6.522 | 99 | 2147173 | 138.492 | ng | | 0.01 |
| 23) Nitrobenzene-d5 | 7.463 | 82 | 1897374 | 151.683 | ng | | 0.01 |
| 42) 2,4,6-Tribromophenol | 10.722 | 330 | 522350 | 147.845 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.251 | 172 | 2941186 | 128.689 | ng | | 0.00 |
| 79) Terphenyl-d14 | 13.004 | 244 | 2634676 | 132.704 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.693 | 88 | 410806 | 73.604 | ng | | 99 |
| 3) Pyridine | 3.452 | 79 | 993777 | 71.834 | ng | | 99 |
| 4) n-Nitrosodimethylamine | 3.422 | 42 | 567647 | 76.370 | ng | | 98 |
| 6) Aniline | 6.598 | 93 | 992375m | 68.680 | ng | | |
| 8) 2-Chlorophenol | 6.681 | 128 | 836233 | 68.333 | ng | | 98 |
| 9) Benzaldehyde | 6.445 | 77 | 554983 | 63.632 | ng | | 99 |
| 10) Phenol | 6.534 | 94 | 1125558 | 69.172 | ng | | 95 |
| 11) bis(2-Chloroethyl)ether | 6.634 | 93 | 886786 | 71.780 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 6.834 | 146 | 969627 | 69.024 | ng | | 98 |
| 13) 1,4-Dichlorobenzene | 6.910 | 146 | 968088 | 68.978 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.069 | 146 | 861333 | 65.758 | ng | | 99 |
| 15) Benzyl Alcohol | 7.034 | 79 | 803101 | 70.616 | ng | | 98 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.169 | 45 | 1472196 | 69.886 | ng | | 99 |
| 17) 2-Methylphenol | 7.140 | 107 | 752459 | 72.109 | ng | | 99 |
| 18) Hexachloroethane | 7.410 | 117 | 357637 | 71.459 | ng | | 97 |
| 19) n-Nitroso-di-n-propyla... | 7.316 | 70 | 651048 | 69.238 | ng | | 99 |
| 20) 3+4-Methylphenols | 7.298 | 107 | 878987 | 65.856 | ng | # | 85 |
| 22) Acetophenone | 7.310 | 105 | 1149288 | 67.682 | ng | | 98 |
| 24) Nitrobenzene | 7.481 | 77 | 1025571 | 74.779 | ng | | 99 |
| 25) Isophorone | 7.722 | 82 | 1767234 | 74.436 | ng | | 100 |
| 26) 2-Nitrophenol | 7.792 | 139 | 434755 | 84.029 | ng | | 99 |
| 27) 2,4-Dimethylphenol | 7.822 | 122 | 619136 | 71.765 | ng | | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.928 | 93 | 1022457 | 71.081 | ng | | 100 |
| 29) 2,4-Dichlorophenol | 8.028 | 162 | 711892 | 72.445 | ng | | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.116 | 180 | 774108 | 71.194 | ng | | 99 |
| 31) Naphthalene | 8.198 | 128 | 2427578 | 67.894 | ng | | 99 |
| 32) Benzoic acid | 7.963 | 122 | 651887 | 86.634 | ng | | 99 |
| 33) 4-Chloroaniline | 8.251 | 127 | 849601 | 69.684 | ng | | 99 |
| 34) Hexachlorobutadiene | 8.316 | 225 | 490203 | 71.753 | ng | | 99 |
| 35) Caprolactam | 8.634 | 113 | 239184 | 76.550 | ng | | 99 |
| 36) 4-Chloro-3-methylphenol | 8.722 | 107 | 794640 | 73.031 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.886 | 142 | 1487841 | 67.944 | ng | | 100 |
| 38) 1-Methylnaphthalene | 8.986 | 142 | 1457890 | 67.858 | ng | | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.051 | 216 | 712936 | 69.962 | ng | | 100 |
| 41) Hexachlorocyclopentadiene | 9.039 | 237 | 256007 | 72.201 | ng | | 100 |
| 43) 2,4,6-Trichlorophenol | 9.163 | 196 | 535533 | 74.228 | ng | | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139851.D
Acq On : 18 Oct 2024 13:46
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:21:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.198 | 196 | 542663 | 72.904 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.357 | 154 | 1753952 | 66.703 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.381 | 162 | 1470012 | 69.411 | ng | | 99 |
| 48) 2-Nitroaniline | 9.469 | 65 | 527552 | 81.447 | ng | | 99 |
| 49) Acenaphthylene | 9.792 | 152 | 2106357 | 68.796 | ng | | 99 |
| 50) Dimethylphthalate | 9.657 | 163 | 1676969 | 71.277 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 9.716 | 165 | 393234 | 77.193 | ng | | 99 |
| 52) Acenaphthene | 9.969 | 154 | 1378724 | 69.610 | ng | | 99 |
| 53) 3-Nitroaniline | 9.886 | 138 | 387157 | 73.697 | ng | | 96 |
| 54) 2,4-Dinitrophenol | 9.986 | 184 | 169167 | 79.932 | ng | # | 1 |
| 55) Dibenzofuran | 10.139 | 168 | 1930402 | 67.930 | ng | | 99 |
| 56) 4-Nitrophenol | 10.033 | 139 | 314170 | 77.732 | ng | | 99 |
| 57) 2,4-Dinitrotoluene | 10.116 | 165 | 510703 | 81.523 | ng | | 97 |
| 58) Fluorene | 10.480 | 166 | 1426794 | 65.920 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.251 | 232 | 424598 | 72.764 | ng | | 99 |
| 60) Diethylphthalate | 10.357 | 149 | 1631842 | 70.641 | ng | | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.475 | 204 | 730565 | 66.837 | ng | | 100 |
| 62) 4-Nitroaniline | 10.504 | 138 | 383383 | 77.270 | ng | | 98 |
| 63) Azobenzene | 10.633 | 77 | 1727533 | 70.539 | ng | | 99 |
| 65) 4,6-Dinitro-2-methylph... | 10.528 | 198 | 235323 | 91.037 | ng | | 98 |
| 66) n-Nitrosodiphenylamine | 10.592 | 169 | 1350839 | 71.220 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.963 | 248 | 477995 | 73.216 | ng | | 99 |
| 68) Hexachlorobenzene | 11.028 | 284 | 536511 | 73.070 | ng | | 98 |
| 69) Atrazine | 11.116 | 200 | 382294 | 74.406 | ng | | 99 |
| 70) Pentachlorophenol | 11.216 | 266 | 354105 | 79.464 | ng | | 99 |
| 71) Phenanthrene | 11.445 | 178 | 2045577 | 68.336 | ng | | 100 |
| 72) Anthracene | 11.492 | 178 | 1995750 | 68.333 | ng | | 99 |
| 73) Carbazole | 11.645 | 167 | 1818340 | 66.943 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.980 | 149 | 2153517 | 68.623 | ng | | 100 |
| 75) Fluoranthene | 12.627 | 202 | 1955847 | 64.632 | ng | | 99 |
| 77) Benzidine | 12.745 | 184 | 318678 | 60.567 | ng | | 99 |
| 78) Pyrene | 12.857 | 202 | 1935829 | 68.360 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.474 | 149 | 664532 | 78.274 | ng | | 98 |
| 81) Benzo(a)anthracene | 14.045 | 228 | 1512920 | 71.840 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 14.010 | 252 | 496976 | 80.937 | ng | | 98 |
| 83) Chrysene | 14.080 | 228 | 1424522 | 73.774 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149 | 794387 | 83.399 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.651 | 149 | 1534331 | 88.561 | ng | | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 17.033 | 276 | 1877616 | 77.935 | ng | | 99 |
| 88) Benzo(b)fluoranthene | 15.098 | 252 | 1664856 | 72.980 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.133 | 252 | 1419158 | 72.134 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.474 | 252 | 1419026 | 75.598 | ng | | 100 |
| 91) Dibenzo(a,h)anthracene | 17.057 | 278 | 1552091 | 77.226 | ng | | 99 |
| 92) Benzo(g,h,i)perylene | 17.492 | 276 | 1550622 | 77.240 | ng | | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

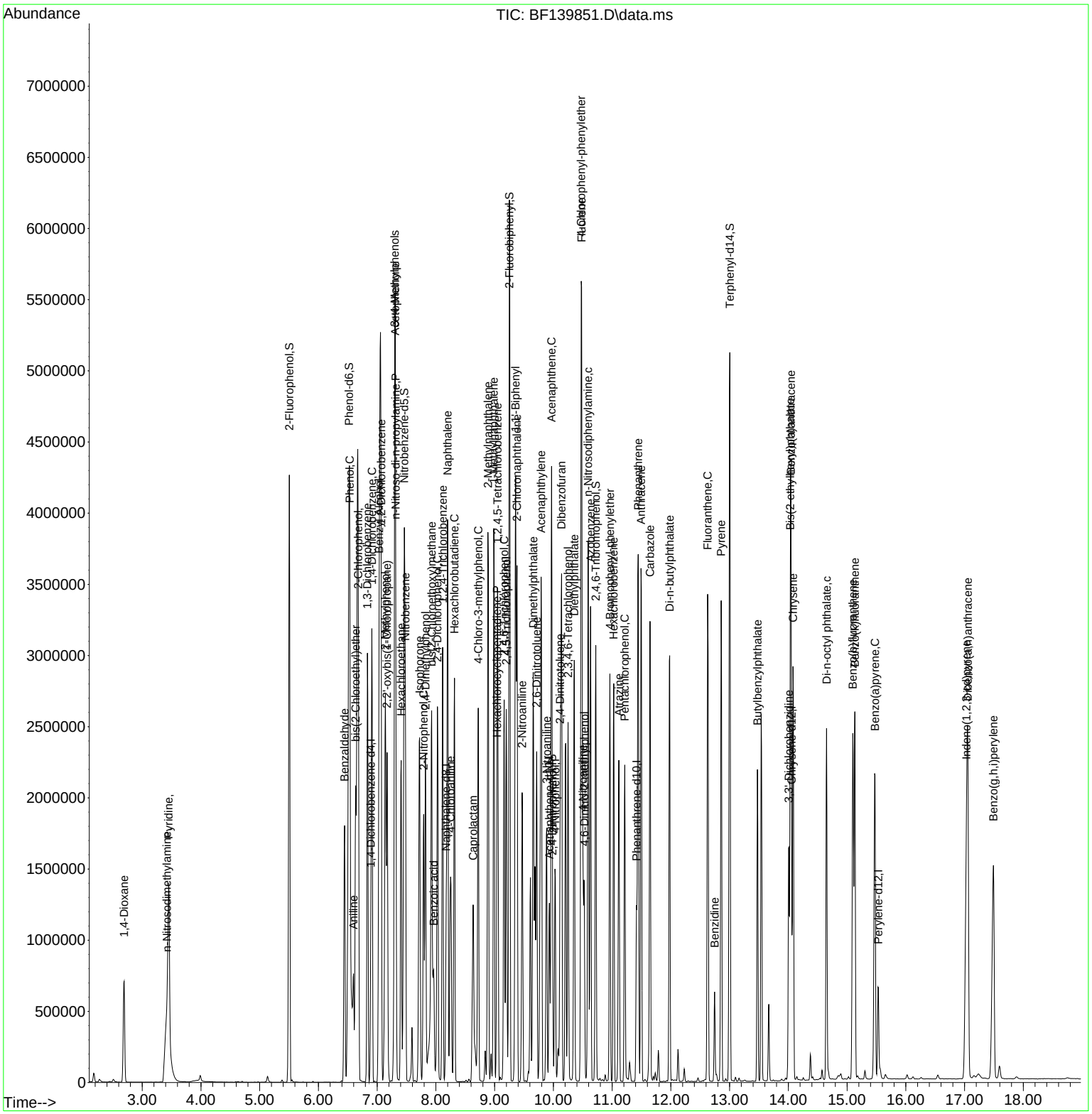
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139851.D
Acq On : 18 Oct 2024 13:46
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 18 14:21:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P4595 SAS No.: P4595 SDG No.: P4595

Instrument ID: BNA_E Calibration Date/Time: 10/31/2024 10:18

Lab File ID: BE101425.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.141 | 1.094 | | -4.1 | |
| Phenol-d6 | 1.582 | 1.584 | | 0.1 | |
| Nitrobenzene-d5 | 0.318 | 0.320 | | 0.6 | |
| Naphthalene | 1.019 | 0.988 | | -3.0 | |
| 2-Fluorobiphenyl | 1.181 | 1.186 | | 0.4 | |
| Acenaphthylene | 1.601 | 1.590 | | -0.7 | |
| Acenaphthene | 1.045 | 1.022 | | -2.2 | 20.0 |
| Fluorene | 1.394 | 1.372 | | -1.6 | |
| 2,4,6-Tribromophenol | 0.351 | 0.354 | | 0.9 | |
| Phenanthrene | 0.958 | 0.952 | | -0.6 | |
| Anthracene | 0.935 | 0.944 | | 1.0 | |
| Fluoranthene | 1.163 | 1.164 | | 0.1 | 20.0 |
| Pyrene | 1.100 | 1.121 | | 1.9 | |
| Terphenyl-d14 | 0.869 | 0.814 | | -6.3 | |
| Benzo(a)anthracene | 1.124 | 1.135 | | 1.0 | |
| Chrysene | 1.087 | 1.082 | | -0.5 | |
| Benzo(b)fluoranthene | 1.042 | 1.047 | | 0.5 | |
| Benzo(k)fluoranthene | 0.974 | 1.007 | | 3.4 | |
| Benzo(a)pyrene | 0.912 | 0.929 | | 1.9 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.338 | 1.335 | | -0.2 | |
| Dibenzo(a,h)anthracene | 1.106 | 1.121 | | 1.4 | |
| Benzo(g,h,i)perylene | 1.140 | 1.126 | | -1.2 | |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101425.D
Acq On : 31 Oct 2024 10:18
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 31 11:02:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel

11/04/2024
Supervised By :mohammad ahmed

11/04/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.573 | 152 | 136647 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 10.340 | 136 | 695845 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 14.183 | 164 | 498092 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 16.915 | 188 | 1107610 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 21.081 | 240 | 1206964 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 23.366 | 264 | 1484764 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.317 | 112 | 597986 | 76.699 | ng | 0.00 |
| 7) Phenol-d6 | 6.944 | 99 | 865656 | 80.074 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 8.783 | 82 | 891231 | 80.445 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.687 | 330 | 704560 | 80.706 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 12.808 | 172 | 2363492 | 80.360 | ng | 0.00 |
| 79) Terphenyl-d14 | 19.512 | 244 | 3929136 | 74.924 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.202 | 88 | 102781 | 35.346 | ng | 97 |
| 3) Pyridine | 3.636 | 79 | 318948m | 38.768 | ng | |
| 4) n-Nitrosodimethylamine | 3.554 | 42 | 126827 | 39.843 | ng | 95 |
| 6) Aniline | 7.009 | 93 | 401150m | 48.418 | ng | |
| 8) 2-Chlorophenol | 7.215 | 128 | 372177 | 39.801 | ng | 100 |
| 9) Benzaldehyde | 6.780 | 77 | 223400 | 42.808 | ng | 98 |
| 10) Phenol | 6.974 | 94 | 485990 | 41.432 | ng | 98 |
| 11) bis(2-Chloroethyl)ether | 7.038 | 93 | 353763 | 36.764 | ng | 99 |
| 12) 1,3-Dichlorobenzene | 7.456 | 146 | 387546 | 38.434 | ng | 98 |
| 13) 1,4-Dichlorobenzene | 7.602 | 146 | 398905 | 38.740 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 7.931 | 146 | 395871 | 39.277 | ng | 100 |
| 15) Benzyl Alcohol | 7.908 | 79 | 281228 | 43.642 | ng | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.078 | 45 | 502597 | 41.504 | ng | 100 |
| 17) 2-Methylphenol | 8.155 | 107 | 322038 | 40.565 | ng | 100 |
| 18) Hexachloroethane | 8.631 | 117 | 137027 | 40.750 | ng | 99 |
| 19) n-Nitroso-di-n-propyla... | 8.372 | 70 | 322497 | 44.954 | ng | 99 |
| 20) 3+4-Methylphenols | 8.490 | 107 | 459784 | 41.957 | ng | 99 |
| 22) Acetophenone | 8.425 | 105 | 635393 | 40.215 | ng | 99 |
| 24) Nitrobenzene | 8.825 | 77 | 469749 | 39.838 | ng | 99 |
| 25) Isophorone | 9.277 | 82 | 890133 | 41.174 | ng | 99 |
| 26) 2-Nitrophenol | 9.512 | 139 | 240968 | 42.281 | ng | 98 |
| 27) 2,4-Dimethylphenol | 9.624 | 122 | 283108 | 39.477 | ng | 98 |
| 28) bis(2-Chloroethoxy)met... | 9.776 | 93 | 541354 | 41.291 | ng | 99 |
| 29) 2,4-Dichlorophenol | 10.058 | 162 | 403774 | 40.697 | ng | 100 |
| 30) 1,2,4-Trichlorobenzene | 10.188 | 180 | 425531 | 39.371 | ng | 100 |
| 31) Naphthalene | 10.387 | 128 | 1375284 | 38.784 | ng | 100 |
| 32) Benzoic acid | 9.894 | 122 | 274661 | 39.074 | ng | 99 |
| 33) 4-Chloroaniline | 10.611 | 127 | 530725 | 43.042 | ng | 100 |
| 34) Hexachlorobutadiene | 10.640 | 225 | 256532 | 40.099 | ng | 99 |
| 35) Caprolactam | 11.392 | 113 | 148620m | 39.079 | ng | |
| 36) 4-Chloro-3-methylphenol | 11.786 | 107 | 450493 | 39.879 | ng | 99 |
| 37) 2-Methylnaphthalene | 11.980 | 142 | 1012694 | 39.641 | ng | 99 |
| 38) 1-Methylnaphthalene | 12.203 | 142 | 997195 | 39.111 | ng | 98 |
| 40) 1,2,4,5-Tetrachloroben... | 12.332 | 216 | 500296 | 40.011 | ng | 100 |
| 41) Hexachlorocyclopentadiene | 12.320 | 237 | 176958 | 42.852 | ng | 98 |
| 43) 2,4,6-Trichlorophenol | 12.655 | 196 | 352787 | 40.927 | ng | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101425.D
Acq On : 31 Oct 2024 10:18
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 31 11:02:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel
11/04/2024
Supervised By :mohammad ahmed
11/04/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 12.755 | 196 | 392408 | 39.753 | ng | 99 |
| 46) 1,1'-Biphenyl | 13.008 | 154 | 1346027 | 39.444 | ng | 99 |
| 47) 2-Chloronaphthalene | 13.055 | 162 | 1066037 | 39.540 | ng | 99 |
| 48) 2-Nitroaniline | 13.384 | 65 | 303693 | 41.856 | ng | 98 |
| 49) Acenaphthylene | 13.913 | 152 | 1583739 | 39.722 | ng | 100 |
| 50) Dimethylphthalate | 13.689 | 163 | 1376574 | 39.153 | ng | 100 |
| 51) 2,6-Dinitrotoluene | 13.825 | 165 | 321015 | 39.547 | ng | 99 |
| 52) Acenaphthene | 14.248 | 154 | 1018284 | 39.113 | ng | 99 |
| 53) 3-Nitroaniline | 14.236 | 138 | 335886 | 41.614 | ng | 99 |
| 54) 2,4-Dinitrophenol | 14.365 | 184 | 195685 | 37.163 | ng | 96 |
| 55) Dibenzofuran | 14.588 | 168 | 1615636 | 38.935 | ng | 100 |
| 56) 4-Nitrophenol | 14.647 | 139 | 274535 | 37.141 | ng | 99 |
| 57) 2,4-Dinitrotoluene | 14.606 | 165 | 451549 | 40.406 | ng | 97 |
| 58) Fluorene | 15.223 | 166 | 1367055 | 39.382 | ng | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 14.853 | 232 | 365312 | 40.054 | ng | 100 |
| 60) Diethylphthalate | 15.011 | 149 | 1441380 | 39.194 | ng | 99 |
| 61) 4-Chlorophenyl-phenyle... | 15.211 | 204 | 686358 | 39.845 | ng | 99 |
| 62) 4-Nitroaniline | 15.423 | 138 | 359743 | 40.053 | ng | 99 |
| 63) Azobenzene | 15.511 | 77 | 1256822 | 39.759 | ng | 99 |
| 65) 4,6-Dinitro-2-methylph... | 15.352 | 198 | 269121 | 41.349 | ng | 96 |
| 66) n-Nitrosodiphenylamine | 15.464 | 169 | 1183401 | 40.289 | ng | 98 |
| 67) 4-Bromophenyl-phenylether | 16.098 | 248 | 476509 | 40.898 | ng | 98 |
| 68) Hexachlorobenzene | 16.204 | 284 | 616275 | 40.354 | ng | 99 |
| 69) Atrazine | 16.398 | 200 | 358312 | 39.790 | ng | 98 |
| 70) Pentachlorophenol | 16.610 | 266 | 378786 | 43.089 | ng | 100 |
| 71) Phenanthrene | 16.956 | 178 | 2107846 | 39.747 | ng | 100 |
| 72) Anthracene | 17.044 | 178 | 2091440 | 40.389 | ng | 100 |
| 73) Carbazole | 17.379 | 167 | 2103747 | 39.706 | ng | 99 |
| 74) Di-n-butylphthalate | 17.826 | 149 | 2504471 | 42.937 | ng | 99 |
| 75) Fluoranthene | 18.966 | 202 | 2578395 | 40.031 | ng | 99 |
| 77) Benzidine | 19.224 | 184 | 1094228 | 71.432 | ng | 99 |
| 78) Pyrene | 19.336 | 202 | 2705541 | 40.762 | ng | 99 |
| 80) Butylbenzylphthalate | 20.182 | 149 | 1230151 | 42.277 | ng | 97 |
| 81) Benzo(a)anthracene | 21.057 | 228 | 2739255 | 40.379 | ng | 99 |
| 82) 3,3'-Dichlorobenzidine | 21.034 | 252 | 1133248 | 42.644 | ng | 99 |
| 83) Chrysene | 21.116 | 228 | 2611394 | 39.813 | ng | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 20.887 | 149 | 1715447 | 44.379 | ng | 100 |
| 85) Di-n-octyl phthalate | 21.733 | 149 | 2791226 | 43.996 | ng | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 25.693 | 276 | 3963948 | 39.892 | ng | 100 |
| 88) Benzo(b)fluoranthene | 22.655 | 252 | 3109496 | 40.187 | ng | 99 |
| 89) Benzo(k)fluoranthene | 22.702 | 252 | 2989872 | 41.360 | ng | 99 |
| 90) Benzo(a)pyrene | 23.261 | 252 | 2759231 | 40.775 | ng | 99 |
| 91) Dibenzo(a,h)anthracene | 25.693 | 278 | 3327481 | 40.526 | ng | 99 |
| 92) Benzo(g,h,i)perylene | 26.445 | 276 | 3344390 | 39.532 | ng | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

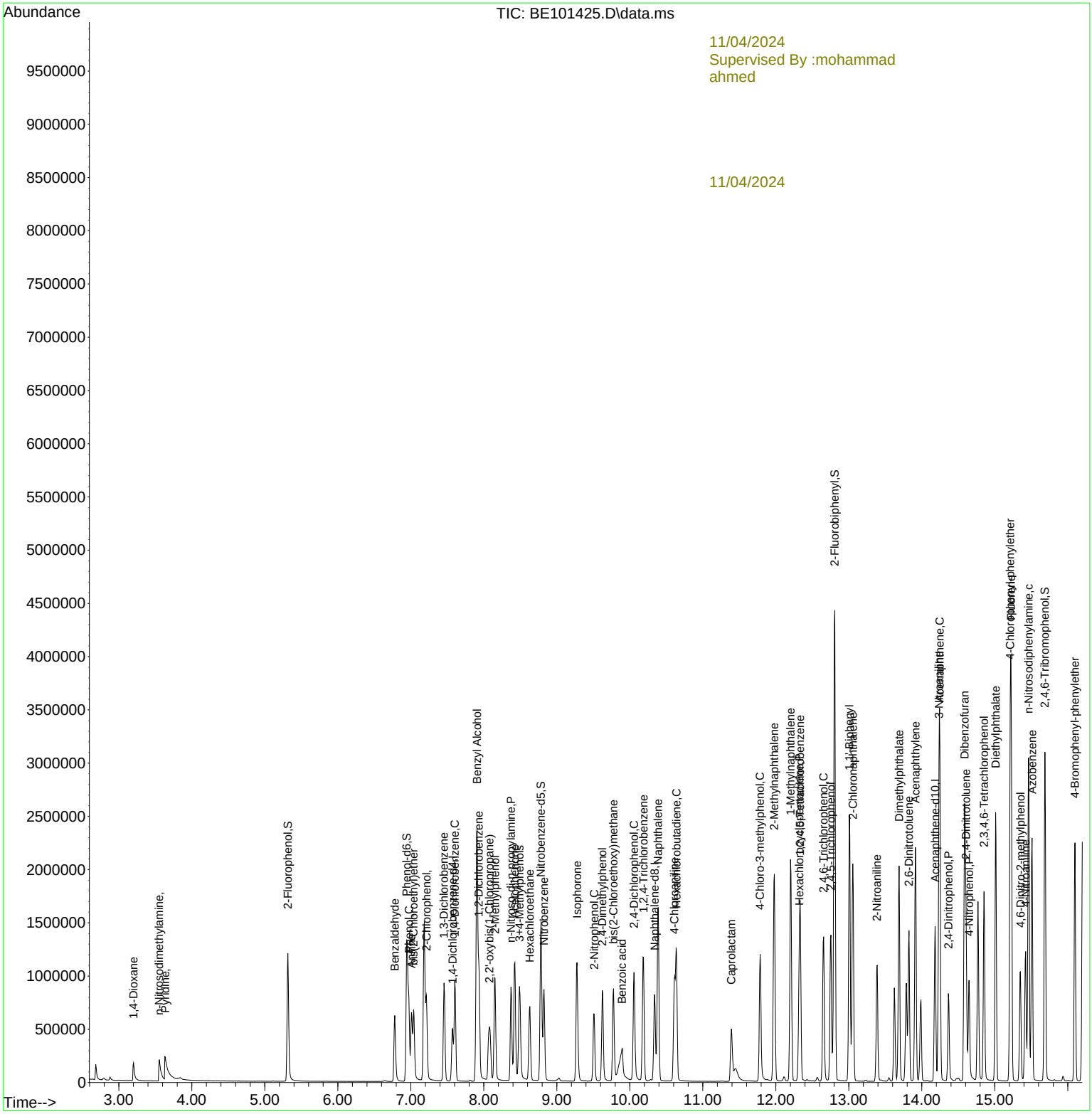
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101425.D
Acq On : 31 Oct 2024 10:18
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 31 11:02:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel



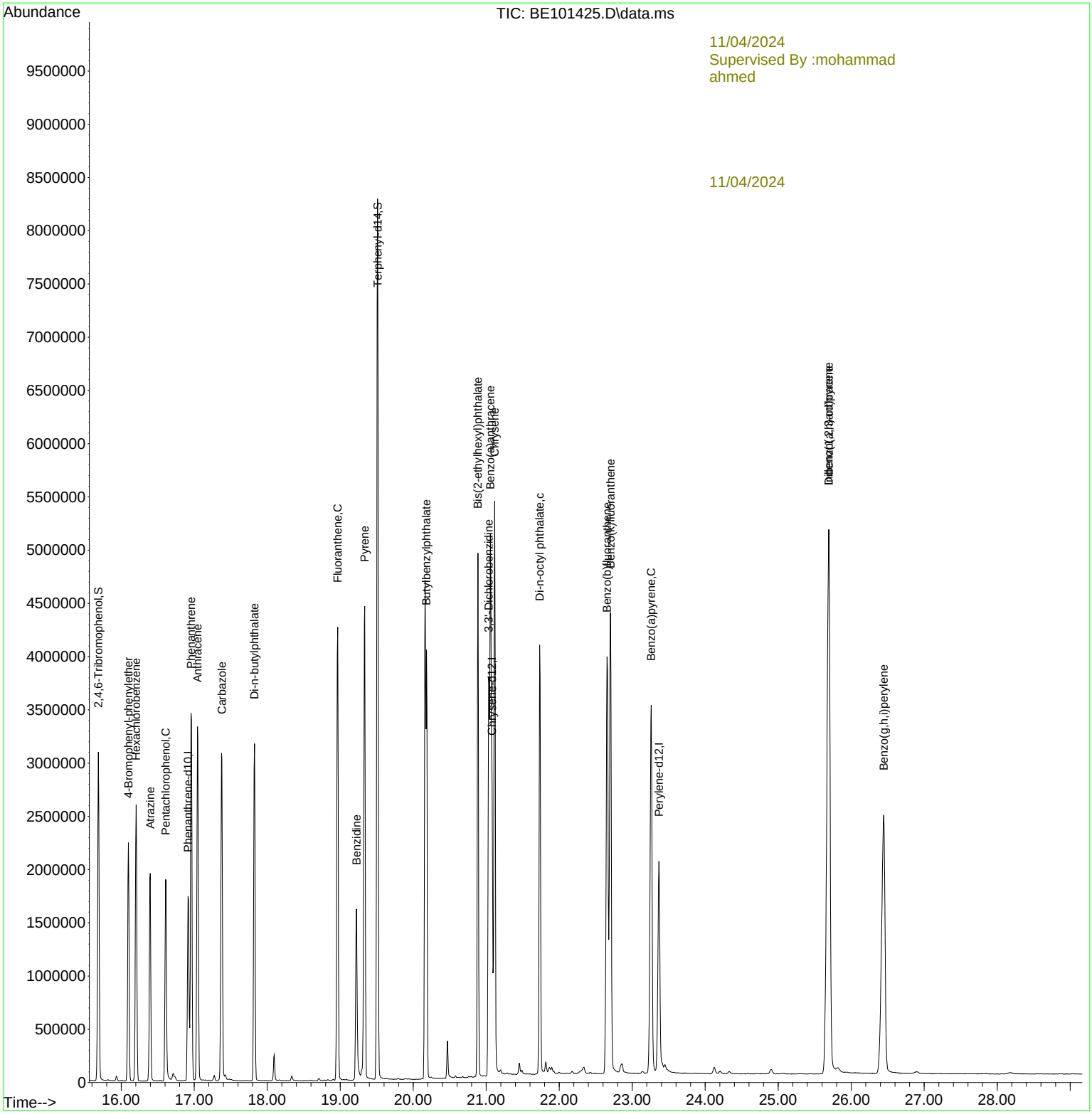
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101425.D
Acq On : 31 Oct 2024 10:18
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 31 11:02:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel



Sample Results: **BE101425.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101425.D
Acq On : 31 Oct 2024 10:18
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_E
**LabSampleId :**
SSTDCCC040

Quant Time: Oct 31 11:02:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 97 | 0.00 |
| 2 | | 1,4-Dioxane | 0.426 | 0.376 | 11.7 | 87 | 0.00 |
| 3 | | Pyridine | 1.204 | 1.167 | 3.1 | 95 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 0.466 | 0.464 | 0.4 | 94 | 0.00 |
| 5 | S | 2-Fluorophenol | 1.141 | 1.094 | 4.1 | 92 | 0.00 |
| 6 | | Aniline | 1.213 | 1.468 | -21.0 | 106 | 0.00 |
| 7 | S | Phenol-d6 | 1.582 | 1.584 | -0.1 | 94 | 0.00 |
| 8 | | 2-Chlorophenol | 1.369 | 1.362 | 0.5 | 94 | 0.00 |
| 9 | | Benzaldehyde | 0.764 | 0.817 | -6.9 | 98 | 0.00 |
| 10 | C | Phenol | 1.717 | 1.778 | -3.6 | 94 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.408 | 1.294 | 8.1 | 85 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.476 | 1.418 | 3.9 | 92 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.507 | 1.460 | 3.1 | 94 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.475 | 1.449 | 1.8 | 94 | 0.00 |
| 15 | | Benzyl Alcohol | 0.943 | 1.029 | -9.1 | 94 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 1.772 | 1.839 | -3.8 | 99 | 0.00 |
| 17 | | 2-Methylphenol | 1.162 | 1.178 | -1.4 | 94 | 0.00 |
| 18 | | Hexachloroethane | 0.492 | 0.501 | -1.8 | 98 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.050 | 1.180 | -12.4 | 99 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.604 | 1.682 | -4.9 | 97 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 22 | | Acetophenone | 0.454 | 0.457 | -0.7 | 97 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.318 | 0.320 | -0.6 | 98 | 0.00 |
| 24 | | Nitrobenzene | 0.339 | 0.338 | 0.3 | 97 | 0.00 |
| 25 | | Isophorone | 0.621 | 0.640 | -3.1 | 98 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.164 | 0.173 | -5.5 | 99 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.206 | 0.203 | 1.5 | 97 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.377 | 0.389 | -3.2 | 102 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.285 | 0.290 | -1.8 | 100 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.311 | 0.306 | 1.6 | 100 | 0.00 |
| 31 | | Naphthalene | 1.019 | 0.988 | 3.0 | 97 | 0.00 |
| 32 | | Benzoic acid | 0.182 | 0.197 | -8.2 | 103 | 0.00 |
| 33 | | 4-Chloroaniline | 0.354 | 0.381 | -7.6 | 98 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.184 | 0.184 | 0.0 | 101 | 0.00 |
| 35 | | Caprolactam | 0.109 | 0.107 | 1.8 | 92 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 0.325 | 0.324 | 0.3 | 97 | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.734 | 0.728 | 0.8 | 99 | 0.00 |
| 38 | | 1-Methylnaphthalene | 0.733 | 0.717 | 2.2 | 98 | 0.00 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.502 | 0.502 | 0.0 | 100 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 0.166 | 0.178 | -7.2 | 102 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 0.351 | 0.354 | -0.9 | 98 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 0.346 | 0.354 | -2.3 | 98 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 0.396 | 0.394 | 0.5 | 97 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 1.181 | 1.186 | -0.4 | 98 | 0.00 |
| 46 | | 1,1'-Biphenyl | 1.370 | 1.351 | 1.4 | 98 | 0.00 |
| 47 | | 2-Chloronaphthalene | 1.083 | 1.070 | 1.2 | 99 | 0.00 |

Sample Results: **BE101425.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101425.D
Acq On : 31 Oct 2024 10:18
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_E
**LabSampleId :**
SSTDCCC040

Quant Time: Oct 31 11:02:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 48 | | 2-Nitroaniline | 0.291 | 0.305 | -4.8 | 97 | 0.00 |
| 49 | | Acenaphthylene | 1.601 | 1.590 | 0.7 | 96 | 0.00 |
| 50 | | Dimethylphthalate | 1.412 | 1.382 | 2.1 | 97 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 0.326 | 0.322 | 1.2 | 95 | 0.00 |
| 52 | C | Acenaphthene | 1.045 | 1.022 | 2.2 | 97 | 0.00 |
| 53 | | 3-Nitroaniline | 0.324 | 0.337 | -4.0 | 96 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 0.198 | 0.196 | 1.0 | 96 | 0.00 |
| 55 | | Dibenzofuran | 1.666 | 1.622 | 2.6 | 97 | 0.00 |
| 56 | P | 4-Nitrophenol | 0.297 | 0.276 | 7.1 | 90 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 0.449 | 0.453 | -0.9 | 96 | 0.00 |
| 58 | | Fluorene | 1.394 | 1.372 | 1.6 | 96 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.366 | 0.367 | -0.3 | 98 | 0.00 |
| 60 | | Diethylphthalate | 1.477 | 1.447 | 2.0 | 96 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 0.692 | 0.689 | 0.4 | 99 | 0.00 |
| 62 | | 4-Nitroaniline | 0.361 | 0.361 | 0.0 | 94 | 0.00 |
| 63 | | Azobenzene | 1.269 | 1.262 | 0.6 | 97 | 0.00 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.118 | 0.121 | -2.5 | 97 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 0.530 | 0.534 | -0.8 | 95 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 0.210 | 0.215 | -2.4 | 99 | 0.00 |
| 68 | | Hexachlorobenzene | 0.276 | 0.278 | -0.7 | 97 | 0.00 |
| 69 | | Atrazine | 0.163 | 0.162 | 0.6 | 87 | 0.00 |
| 70 | C | Pentachlorophenol | 0.159 | 0.171 | -7.5 | 98 | 0.00 |
| 71 | | Phenanthrene | 0.958 | 0.952 | 0.6 | 95 | 0.00 |
| 72 | | Anthracene | 0.935 | 0.944 | -1.0 | 95 | 0.00 |
| 73 | | Carbazole | 0.957 | 0.950 | 0.7 | 94 | 0.00 |
| 74 | | Di-n-butylphthalate | 1.053 | 1.131 | -7.4 | 98 | 0.00 |
| 75 | C | Fluoranthene | 1.163 | 1.164 | -0.1 | 96 | 0.00 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 77 | | Benzidine | 0.254 | 0.453 | -78.3# | 130 | 0.00 |
| 78 | | Pyrene | 1.100 | 1.121 | -1.9 | 95 | 0.00 |
| 79 | S | Terphenyl-d14 | 0.869 | 0.814 | 6.3 | 96 | 0.00 |
| 80 | | Butylbenzylphthalate | 0.482 | 0.510 | -5.8 | 99 | 0.00 |
| 81 | | Benzo(a)anthracene | 1.124 | 1.135 | -1.0 | 96 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 0.440 | 0.469 | -6.6 | 97 | 0.00 |
| 83 | | Chrysene | 1.087 | 1.082 | 0.5 | 97 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.641 | 0.711 | -10.9 | 101 | 0.00 |
| 85 | c | Di-n-octyl phthalate | 1.051 | 1.156 | -10.0 | 101 | 0.00 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 87 | | Indeno(1,2,3-cd)pyrene | 1.338 | 1.335 | 0.2 | 94 | 0.00 |
| 88 | | Benzo(b)fluoranthene | 1.042 | 1.047 | -0.5 | 93 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 0.974 | 1.007 | -3.4 | 98 | 0.00 |
| 90 | C | Benzo(a)pyrene | 0.912 | 0.929 | -1.9 | 95 | 0.00 |
| 91 | | Dibenzo(a,h)anthracene | 1.106 | 1.121 | -1.4 | 94 | 0.00 |
| 92 | | Benzo(g,h,i)perylene | 1.140 | 1.126 | 1.2 | 94 | 0.00 |

Sample Results: **BE101425.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101425.D
Acq On : 31 Oct 2024 10:18
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_E
**LabSampleId :**
SSTDCCC040

Quant Time: Oct 31 11:02:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BE101425.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101425.D
Acq On : 31 Oct 2024 10:18
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_E
**LabSampleId :**
SSTDCCC040

Quant Time: Oct 31 11:02:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 20.000 | 20.000 | 0.0 | 97 | 0.00 |
| 2 | | 1,4-Dioxane | 40.000 | 35.346 | 11.6 | 87 | 0.00 |
| 3 | | Pyridine | 40.000 | 38.768 | 3.1 | 95 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 39.843 | 0.4 | 94 | 0.00 |
| 5 | S | 2-Fluorophenol | 80.000 | 76.699 | 4.1 | 92 | 0.00 |
| 6 | | Aniline | 40.000 | 48.418 | -21.0 | 106 | 0.00 |
| 7 | S | Phenol-d6 | 80.000 | 80.074 | -0.1 | 94 | 0.00 |
| 8 | | 2-Chlorophenol | 40.000 | 39.801 | 0.5 | 94 | 0.00 |
| 9 | | Benzaldehyde | 40.000 | 42.808 | -7.0 | 98 | 0.00 |
| 10 | C | Phenol | 40.000 | 41.432 | -3.6 | 94 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 36.764 | 8.1 | 85 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 38.434 | 3.9 | 92 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 38.740 | 3.1 | 94 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 39.277 | 1.8 | 94 | 0.00 |
| 15 | | Benzyl Alcohol | 40.000 | 43.642 | -9.1 | 94 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 41.504 | -3.8 | 99 | 0.00 |
| 17 | | 2-Methylphenol | 40.000 | 40.565 | -1.4 | 94 | 0.00 |
| 18 | | Hexachloroethane | 40.000 | 40.750 | -1.9 | 98 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 44.954 | -12.4 | 99 | 0.00 |
| 20 | | 3+4-Methylphenols | 40.000 | 41.957 | -4.9 | 97 | 0.00 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 102 | 0.00 |
| 22 | | Acetophenone | 40.000 | 40.215 | -0.5 | 97 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 80.445 | -0.6 | 98 | 0.00 |
| 24 | | Nitrobenzene | 40.000 | 39.838 | 0.4 | 97 | 0.00 |
| 25 | | Isophorone | 40.000 | 41.174 | -2.9 | 98 | 0.00 |
| 26 | C | 2-Nitrophenol | 40.000 | 42.281 | -5.7 | 99 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 39.477 | 1.3 | 97 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 41.291 | -3.2 | 102 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 40.697 | -1.7 | 100 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 39.371 | 1.6 | 100 | 0.00 |
| 31 | | Naphthalene | 40.000 | 38.784 | 3.0 | 97 | 0.00 |
| 32 | | Benzoic acid | 40.000 | 39.074 | 2.3 | 103 | 0.00 |
| 33 | | 4-Chloroaniline | 40.000 | 43.042 | -7.6 | 98 | 0.00 |
| 34 | C | Hexachlorobutadiene | 40.000 | 40.099 | -0.2 | 101 | 0.00 |
| 35 | | Caprolactam | 40.000 | 39.079 | 2.3 | 92 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 39.879 | 0.3 | 97 | 0.00 |
| 37 | | 2-Methylnaphthalene | 40.000 | 39.641 | 0.9 | 99 | 0.00 |
| 38 | | 1-Methylnaphthalene | 40.000 | 39.111 | 2.2 | 98 | 0.00 |
| 39 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 102 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 40.011 | -0.0 | 100 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 40.000 | 42.852 | -7.1 | 102 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 80.000 | 80.706 | -0.9 | 98 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 40.000 | 40.927 | -2.3 | 98 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 40.000 | 39.753 | 0.6 | 97 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 80.000 | 80.360 | -0.4 | 98 | 0.00 |
| 46 | | 1,1'-Biphenyl | 40.000 | 39.444 | 1.4 | 98 | 0.00 |
| 47 | | 2-Chloronaphthalene | 40.000 | 39.540 | 1.2 | 99 | 0.00 |

Sample Results: **BE101425.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101425.D
Acq On : 31 Oct 2024 10:18
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_E
**LabSampleId :**
SSTDCCC040

Quant Time: Oct 31 11:02:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 48 | | 2-Nitroaniline | 40.000 | 41.856 | -4.6 | 97 | 0.00 |
| 49 | | Acenaphthylene | 40.000 | 39.722 | 0.7 | 96 | 0.00 |
| 50 | | Dimethylphthalate | 40.000 | 39.153 | 2.1 | 97 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 40.000 | 39.547 | 1.1 | 95 | 0.00 |
| 52 | C | Acenaphthene | 40.000 | 39.113 | 2.2 | 97 | 0.00 |
| 53 | | 3-Nitroaniline | 40.000 | 41.614 | -4.0 | 96 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 40.000 | 37.163 | 7.1 | 96 | 0.00 |
| 55 | | Dibenzofuran | 40.000 | 38.935 | 2.7 | 97 | 0.00 |
| 56 | P | 4-Nitrophenol | 40.000 | 37.141 | 7.1 | 90 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 40.000 | 40.406 | -1.0 | 96 | 0.00 |
| 58 | | Fluorene | 40.000 | 39.382 | 1.5 | 96 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 40.000 | 40.054 | -0.1 | 98 | 0.00 |
| 60 | | Diethylphthalate | 40.000 | 39.194 | 2.0 | 96 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 40.000 | 39.845 | 0.4 | 99 | 0.00 |
| 62 | | 4-Nitroaniline | 40.000 | 40.053 | -0.1 | 94 | 0.00 |
| 63 | | Azobenzene | 40.000 | 39.759 | 0.6 | 97 | 0.00 |
| 64 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 99 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 40.000 | 41.349 | -3.4 | 97 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 40.000 | 40.289 | -0.7 | 95 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 40.000 | 40.898 | -2.2 | 99 | 0.00 |
| 68 | | Hexachlorobenzene | 40.000 | 40.354 | -0.9 | 97 | 0.00 |
| 69 | | Atrazine | 40.000 | 39.790 | 0.5 | 87 | 0.00 |
| 70 | C | Pentachlorophenol | 40.000 | 43.089 | -7.7 | 98 | 0.00 |
| 71 | | Phenanthrene | 40.000 | 39.747 | 0.6 | 95 | 0.00 |
| 72 | | Anthracene | 40.000 | 40.389 | -1.0 | 95 | 0.00 |
| 73 | | Carbazole | 40.000 | 39.706 | 0.7 | 94 | 0.00 |
| 74 | | Di-n-butylphthalate | 40.000 | 42.937 | -7.3 | 98 | 0.00 |
| 75 | C | Fluoranthene | 40.000 | 40.031 | -0.1 | 96 | 0.00 |
| 76 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 99 | 0.00 |
| 77 | | Benzidine | 40.000 | 71.432 | -78.6# | 130 | 0.00 |
| 78 | | Pyrene | 40.000 | 40.762 | -1.9 | 95 | 0.00 |
| 79 | S | Terphenyl-d14 | 80.000 | 74.924 | 6.3 | 96 | 0.00 |
| 80 | | Butylbenzylphthalate | 40.000 | 42.277 | -5.7 | 99 | 0.00 |
| 81 | | Benzo(a)anthracene | 40.000 | 40.379 | -0.9 | 96 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 40.000 | 42.644 | -6.6 | 97 | 0.00 |
| 83 | | Chrysene | 40.000 | 39.813 | 0.5 | 97 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 40.000 | 44.379 | -10.9 | 101 | 0.00 |
| 85 | c | Di-n-octyl phthalate | 40.000 | 43.996 | -10.0 | 101 | 0.00 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 98 | 0.00 |
| 87 | | Indeno(1,2,3-cd)pyrene | 40.000 | 39.892 | 0.3 | 94 | 0.00 |
| 88 | | Benzo(b)fluoranthene | 40.000 | 40.187 | -0.5 | 93 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 40.000 | 41.360 | -3.4 | 98 | 0.00 |
| 90 | C | Benzo(a)pyrene | 40.000 | 40.775 | -1.9 | 95 | 0.00 |
| 91 | | Dibenzo(a,h)anthracene | 40.000 | 40.526 | -1.3 | 94 | 0.00 |
| 92 | | Benzo(g,h,i)perylene | 40.000 | 39.532 | 1.2 | 94 | 0.00 |

Sample Results: **BE101425.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101425.D
Acq On : 31 Oct 2024 10:18
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_E
**LabSampleId :**
SSTDCCC040

Quant Time: Oct 31 11:02:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TULL02

Lab Code: CHEM Case No.: P4595 SAS No.: P4595 SDG No.: P4595

Instrument ID: BNA_F Calibration Date/Time: 10/29/2024 16:01

Lab File ID: BF140113.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

GC Column: DB-UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.278 | 1.205 | | -5.7 | |
| Phenol-d6 | 1.655 | 1.537 | | -7.1 | |
| Nitrobenzene-d5 | 0.361 | 0.383 | | 6.1 | |
| Naphthalene | 1.031 | 1.010 | | -2.0 | |
| 2-Fluorobiphenyl | 1.210 | 1.189 | | -1.7 | |
| Acenaphthylene | 1.621 | 1.599 | | -1.4 | |
| Acenaphthene | 1.049 | 1.075 | | 2.5 | 20.0 |
| Fluorene | 1.146 | 1.142 | | -0.3 | |
| 2,4,6-Tribromophenol | 0.187 | 0.205 | | 9.6 | |
| Phenanthrene | 0.945 | 0.912 | | -3.5 | |
| Anthracene | 0.922 | 0.902 | | -2.2 | |
| Fluoranthene | 0.955 | 0.899 | | -5.9 | 20.0 |
| Pyrene | 1.751 | 1.679 | | -4.1 | |
| Terphenyl-d14 | 1.227 | 1.209 | | -1.5 | |
| Benzo(a)anthracene | 1.302 | 1.290 | | -0.9 | |
| Chrysene | 1.194 | 1.183 | | -0.9 | |
| Benzo(b)fluoranthene | 1.218 | 1.164 | | -4.4 | |
| Benzo(k)fluoranthene | 1.051 | 1.021 | | -2.9 | |
| Benzo(a)pyrene | 1.002 | 0.991 | | -1.1 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.287 | 1.296 | | 0.7 | |
| Dibenzo(a,h)anthracene | 1.073 | 1.071 | | -0.2 | |
| Benzo(g,h,i)perylene | 1.072 | 1.091 | | 1.8 | |

All other compounds must meet a minimum RRF of 0.010.

Sample Results: **BF140113.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140113.D
Acq On : 29 Oct 2024 16:01
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 29 16:37:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.892 | 152 | 154336 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.175 | 136 | 582321 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.928 | 164 | 326390 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.416 | 188 | 563401 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.074 | 240 | 296186 | 20.000 | ng | | 0.02 |
| 86) Perylene-d12 | 15.592 | 264 | 329400 | 20.000 | ng | | 0.06 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.504 | 112 | 743996 | 75.466 | ng | | 0.00 |
| 7) Phenol-d6 | 6.516 | 99 | 948872 | 74.313 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.457 | 82 | 891222 | 84.824 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.716 | 330 | 267663 | 87.674 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.245 | 172 | 1552720 | 78.623 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.998 | 244 | 1431872 | 78.775 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.669 | 88 | 162943 | 35.449 | ng | | 98 |
| 3) Pyridine | 3.440 | 79 | 421889 | 37.029 | ng | | 99 |
| 4) n-Nitrosodimethylamine | 3.399 | 42 | 223333 | 36.484 | ng | | 99 |
| 6) Aniline | 6.557 | 93 | 445056 | 37.400 | ng | | 99 |
| 8) 2-Chlorophenol | 6.675 | 128 | 384327 | 38.133 | ng | | 99 |
| 9) Benzaldehyde | 6.439 | 77 | 300771 | 41.873 | ng | | 99 |
| 10) Phenol | 6.528 | 94 | 495266m | 37.623 | ng | | |
| 11) bis(2-Chloroethyl)ether | 6.628 | 93 | 390779 | 38.407 | ng | | 100 |
| 12) 1,3-Dichlorobenzene | 6.834 | 146 | 456471 | 39.455 | ng | | 100 |
| 13) 1,4-Dichlorobenzene | 6.910 | 146 | 457203 | 39.556 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.063 | 146 | 421208 | 39.046 | ng | | 99 |
| 15) Benzyl Alcohol | 7.028 | 79 | 367803 | 39.269 | ng | | 98 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 642999 | 37.062 | ng | | 98 |
| 17) 2-Methylphenol | 7.134 | 107 | 329484 | 38.339 | ng | | 98 |
| 18) Hexachloroethane | 7.404 | 117 | 168286 | 40.829 | ng | | 97 |
| 19) n-Nitroso-di-n-propyla... | 7.304 | 70 | 292090 | 37.718 | ng | | 98 |
| 20) 3+4-Methylphenols | 7.292 | 107 | 406879 | 37.015 | ng | # | 83 |
| 22) Acetophenone | 7.298 | 105 | 547054 | 38.355 | ng | | 98 |
| 24) Nitrobenzene | 7.475 | 77 | 467909 | 40.619 | ng | | 100 |
| 25) Isophorone | 7.710 | 82 | 792075 | 39.719 | ng | | 99 |
| 26) 2-Nitrophenol | 7.786 | 139 | 210871 | 48.523 | ng | | 98 |
| 27) 2,4-Dimethylphenol | 7.816 | 122 | 271833 | 37.513 | ng | | 97 |
| 28) bis(2-Chloroethoxy)met... | 7.922 | 93 | 475498 | 39.356 | ng | | 100 |
| 29) 2,4-Dichlorophenol | 8.028 | 162 | 327963 | 39.735 | ng | | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.110 | 180 | 367887 | 40.281 | ng | | 99 |
| 31) Naphthalene | 8.192 | 128 | 1175766 | 39.150 | ng | | 100 |
| 32) Benzoic acid | 7.939 | 122 | 270416 | 42.786 | ng | | 99 |
| 33) 4-Chloroaniline | 8.239 | 127 | 382919 | 37.392 | ng | | 99 |
| 34) Hexachlorobutadiene | 8.310 | 225 | 241270 | 42.045 | ng | | 99 |
| 35) Caprolactam | 8.616 | 113 | 105823 | 40.322 | ng | | 97 |
| 36) 4-Chloro-3-methylphenol | 8.716 | 107 | 370459 | 40.534 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.886 | 142 | 728121 | 39.586 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.981 | 142 | 707632 | 39.213 | ng | | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.051 | 216 | 360611 | 40.953 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 9.033 | 237 | 124083 | 40.499 | ng | | 100 |
| 43) 2,4,6-Trichlorophenol | 9.157 | 196 | 245975 | 39.456 | ng | | 100 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140113.D
Acq On : 29 Oct 2024 16:01
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 29 16:37:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.198 | 196 | 271707 | 42.243 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.351 | 154 | 895579 | 39.415 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.375 | 162 | 720392 | 39.365 | ng | | 99 |
| 48) 2-Nitroaniline | 9.469 | 65 | 248826 | 44.457 | ng | | 95 |
| 49) Acenaphthylene | 9.792 | 152 | 1043630 | 39.447 | ng | | 100 |
| 50) Dimethylphthalate | 9.651 | 163 | 824802 | 40.570 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.710 | 165 | 193043 | 43.855 | ng | | 99 |
| 52) Acenaphthene | 9.963 | 154 | 701432 | 40.984 | ng | | 99 |
| 53) 3-Nitroaniline | 9.880 | 138 | 190432 | 41.951 | ng | | 96 |
| 54) 2,4-Dinitrophenol | 9.980 | 184 | 103525 | 58.514 | ng | # | 1 |
| 55) Dibenzofuran | 10.133 | 168 | 966386 | 39.355 | ng | | 99 |
| 56) 4-Nitrophenol | 10.028 | 139 | 143961 | 41.221 | ng | | 97 |
| 57) 2,4-Dinitrotoluene | 10.110 | 165 | 253696 | 46.867 | ng | | 100 |
| 58) Fluorene | 10.475 | 166 | 745319 | 39.850 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.251 | 232 | 210025 | 41.653 | ng | | 98 |
| 60) Diethylphthalate | 10.345 | 149 | 822514 | 41.206 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204 | 386070 | 40.876 | ng | | 99 |
| 62) 4-Nitroaniline | 10.492 | 138 | 186065 | 43.399 | ng | | 98 |
| 63) Azobenzene | 10.627 | 77 | 827895 | 39.122 | ng | | 98 |
| 65) 4,6-Dinitro-2-methylph... | 10.522 | 198 | 140612 | 61.186 | ng | | 94 |
| 66) n-Nitrosodiphenylamine | 10.586 | 169 | 669526 | 39.705 | ng | | 100 |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248 | 247494 | 42.641 | ng | | 99 |
| 68) Hexachlorobenzene | 11.022 | 284 | 272750 | 41.784 | ng | | 99 |
| 69) Atrazine | 11.110 | 200 | 181908 | 39.824 | ng | | 99 |
| 70) Pentachlorophenol | 11.216 | 266 | 174262 | 43.987 | ng | | 99 |
| 71) Phenanthrene | 11.439 | 178 | 1027169 | 38.597 | ng | | 100 |
| 72) Anthracene | 11.492 | 178 | 1016521 | 39.149 | ng | | 100 |
| 73) Carbazole | 11.645 | 167 | 900780 | 37.302 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.974 | 149 | 1152766 | 41.318 | ng | | 100 |
| 75) Fluoranthene | 12.627 | 202 | 1012672 | 37.641 | ng | | 100 |
| 77) Benzidine | 12.751 | 184 | 313360 | 64.341 | ng | | 99 |
| 78) Pyrene | 12.857 | 202 | 994568 | 38.362 | ng | | 100 |
| 80) Butylbenzylphthalate | 13.474 | 149 | 361607 | 46.523 | ng | | 100 |
| 81) Benzo(a)anthracene | 14.063 | 228 | 764088 | 39.630 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 14.021 | 252 | 262064 | 46.617 | ng | | 99 |
| 83) Chrysene | 14.098 | 228 | 700836 | 39.644 | ng | | 100 |
| 84) Bis(2-ethylhexyl)phtha... | 14.045 | 149 | 463194 | 53.115 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.698 | 149 | 784324 | 49.448 | ng | | 98 |
| 87) Indeno(1,2,3-cd)pyrene | 17.109 | 276 | 854097 | 40.304 | ng | | 98 |
| 88) Benzo(b)fluoranthene | 15.151 | 252 | 767024 | 38.226 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.186 | 252 | 672813 | 38.880 | ng | | 100 |
| 90) Benzo(a)pyrene | 15.527 | 252 | 653063 | 39.554 | ng | | 100 |
| 91) Dibenzo(a,h)anthracene | 17.127 | 278 | 705262 | 39.895 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 17.568 | 276 | 718764 | 40.704 | ng | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

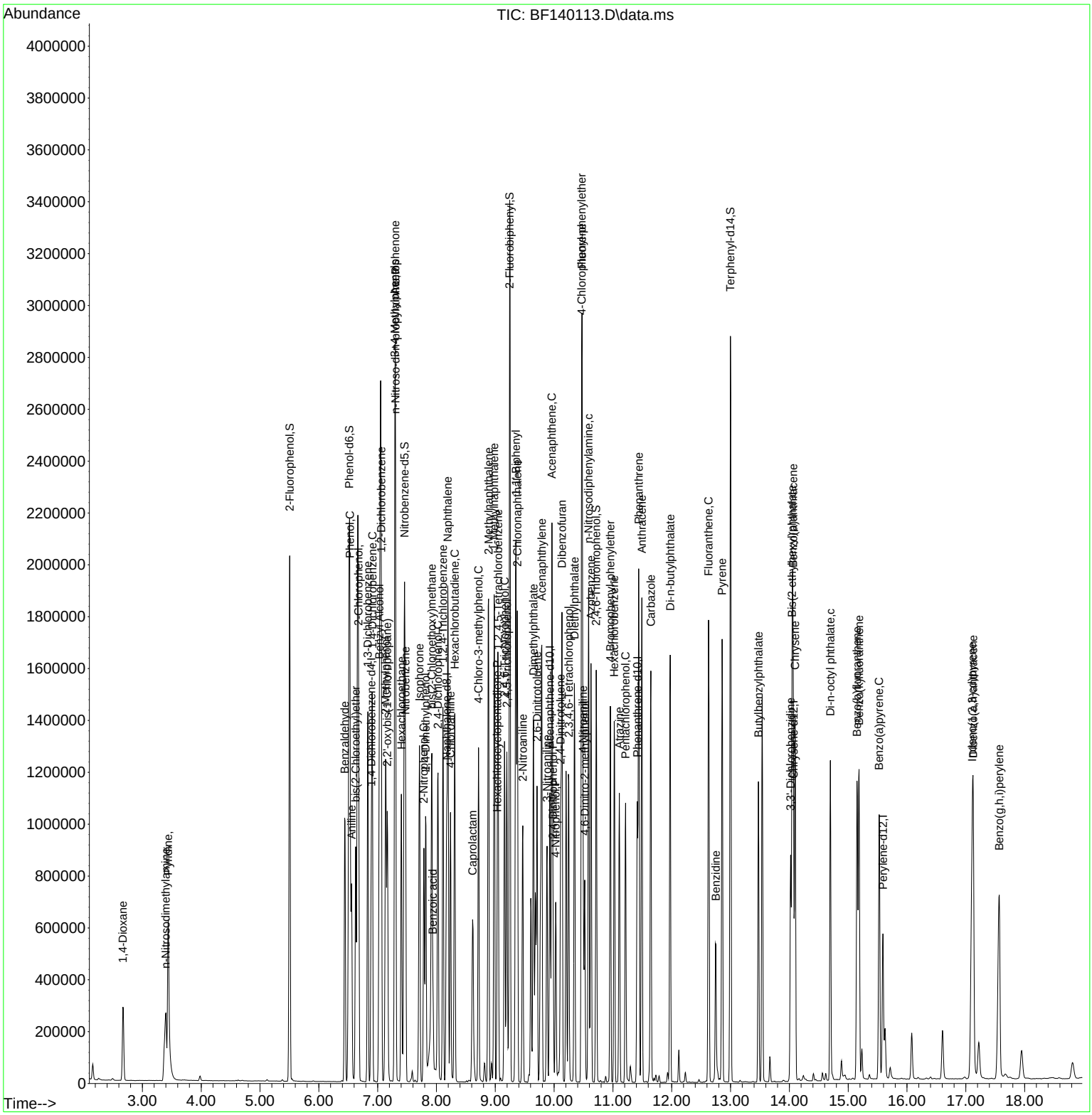
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140113.D
Acq On : 29 Oct 2024 16:01
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 29 16:37:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024



Sample Results: **BF140113.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140113.D
Acq On : 29 Oct 2024 16:01
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Oct 29 16:37:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 85 | 0.00 |
| 2 | | 1,4-Dioxane | 0.596 | 0.528 | 11.4 | 76 | -0.02 |
| 3 | | Pyridine | 1.476 | 1.367 | 7.4 | 77 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 0.793 | 0.724 | 8.7 | 76 | 0.00 |
| 5 | S | 2-Fluorophenol | 1.278 | 1.205 | 5.7 | 80 | 0.00 |
| 6 | | Aniline | 1.542 | 1.442 | 6.5 | 77 | 0.00 |
| 7 | S | Phenol-d6 | 1.655 | 1.537 | 7.1 | 79 | 0.00 |
| 8 | | 2-Chlorophenol | 1.306 | 1.245 | 4.7 | 81 | 0.00 |
| 9 | | Benzaldehyde | 0.931 | 0.974 | -4.6 | 88 | 0.00 |
| 10 | C | Phenol | 1.706 | 1.605 | 5.9 | 80 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.319 | 1.266 | 4.0 | 83 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.499 | 1.479 | 1.3 | 84 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.498 | 1.481 | 1.1 | 85 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.398 | 1.365 | 2.4 | 84 | 0.00 |
| 15 | | Benzyl Alcohol | 1.214 | 1.192 | 1.8 | 83 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.248 | 2.083 | 7.3 | 78 | 0.00 |
| 17 | | 2-Methylphenol | 1.114 | 1.067 | 4.2 | 81 | 0.00 |
| 18 | | Hexachloroethane | 0.534 | 0.545 | -2.1 | 86 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.004 | 0.946 | 5.8 | 82 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.424 | 1.318 | 7.4 | 79 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 85 | 0.00 |
| 22 | | Acetophenone | 0.490 | 0.470 | 4.1 | 82 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.361 | 0.383 | -6.1 | 87 | 0.00 |
| 24 | | Nitrobenzene | 0.396 | 0.402 | -1.5 | 84 | 0.00 |
| 25 | | Isophorone | 0.685 | 0.680 | 0.7 | 85 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.149 | 0.181 | -21.5# | 97 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.249 | 0.233 | 6.4 | 79 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.415 | 0.408 | 1.7 | 84 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.283 | 0.282 | 0.4 | 84 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.314 | 0.316 | -0.6 | 85 | 0.00 |
| 31 | | Naphthalene | 1.031 | 1.010 | 2.0 | 83 | 0.00 |
| 32 | | Benzoic acid | 0.217 | 0.232 | -6.9 | 89 | 0.02 |
| 33 | | 4-Chloroaniline | 0.352 | 0.329 | 6.5 | 79 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.197 | 0.207 | -5.1 | 89 | 0.00 |
| 35 | | Caprolactam | 0.090 | 0.091 | -1.1 | 84 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 0.314 | 0.318 | -1.3 | 85 | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.632 | 0.625 | 1.1 | 85 | 0.00 |
| 38 | | 1-Methylnaphthalene | 0.620 | 0.608 | 1.9 | 84 | 0.00 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 86 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.540 | 0.552 | -2.2 | 88 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 0.188 | 0.190 | -1.1 | 82 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 0.187 | 0.205 | -9.6 | 94 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 0.382 | 0.377 | 1.3 | 84 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 0.394 | 0.416 | -5.6 | 89 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 1.210 | 1.189 | 1.7 | 88 | 0.00 |
| 46 | | 1,1'-Biphenyl | 1.392 | 1.372 | 1.4 | 86 | 0.00 |
| 47 | | 2-Chloronaphthalene | 1.121 | 1.104 | 1.5 | 85 | 0.00 |

Sample Results: **BF140113.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140113.D
Acq On : 29 Oct 2024 16:01
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Oct 29 16:37:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 48 | | 2-Nitroaniline | 0.343 | 0.381 | -11.1 | 90 | 0.00 |
| 49 | | Acenaphthylene | 1.621 | 1.599 | 1.4 | 85 | 0.00 |
| 50 | | Dimethylphthalate | 1.246 | 1.264 | -1.4 | 88 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 0.270 | 0.296 | -9.6 | 91 | 0.00 |
| 52 | C | Acenaphthene | 1.049 | 1.075 | -2.5 | 88 | 0.00 |
| 53 | | 3-Nitroaniline | 0.278 | 0.292 | -5.0 | 86 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 0.093 | 0.159 | -71.0# | 135 | 0.00 |
| 55 | | Dibenzofuran | 1.505 | 1.480 | 1.7 | 86 | 0.00 |
| 56 | P | 4-Nitrophenol | 0.214 | 0.221 | -3.3 | 82 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 0.332 | 0.389 | -17.2 | 94 | 0.00 |
| 58 | | Fluorene | 1.146 | 1.142 | 0.3 | 88 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.309 | 0.322 | -4.2 | 89 | 0.00 |
| 60 | | Diethylphthalate | 1.223 | 1.260 | -3.0 | 89 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 0.579 | 0.591 | -2.1 | 89 | 0.00 |
| 62 | | 4-Nitroaniline | 0.263 | 0.285 | -8.4 | 89 | 0.00 |
| 63 | | Azobenzene | 1.297 | 1.268 | 2.2 | 83 | 0.00 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 85 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.082 | 0.125 | -52.4# | 121 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 0.599 | 0.594 | 0.8 | 85 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 0.206 | 0.220 | -6.8 | 92 | 0.00 |
| 68 | | Hexachlorobenzene | 0.232 | 0.242 | -4.3 | 89 | 0.00 |
| 69 | | Atrazine | 0.162 | 0.161 | 0.6 | 78 | 0.00 |
| 70 | C | Pentachlorophenol | 0.141 | 0.155 | -9.9 | 86 | 0.00 |
| 71 | | Phenanthrene | 0.945 | 0.912 | 3.5 | 83 | 0.00 |
| 72 | | Anthracene | 0.922 | 0.902 | 2.2 | 84 | 0.00 |
| 73 | | Carbazole | 0.857 | 0.799 | 6.8 | 80 | 0.00 |
| 74 | | Di-n-butylphthalate | 0.990 | 1.023 | -3.3 | 86 | 0.00 |
| 75 | C | Fluoranthene | 0.955 | 0.899 | 5.9 | 81 | 0.00 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 86 | 0.02 |
| 77 | | Benzidine | 0.329 | 0.529 | -60.8# | 124 | 0.00 |
| 78 | | Pyrene | 1.751 | 1.679 | 4.1 | 80 | 0.00 |
| 79 | S | Terphenyl-d14 | 1.227 | 1.209 | 1.5 | 83 | 0.00 |
| 80 | | Butylbenzylphthalate | 0.525 | 0.610 | -16.2 | 94 | 0.00 |
| 81 | | Benzo(a)anthracene | 1.302 | 1.290 | 0.9 | 83 | 0.02 |
| 82 | | 3,3'-Dichlorobenzidine | 0.380 | 0.442 | -16.3 | 98 | 0.02 |
| 83 | | Chrysene | 1.194 | 1.183 | 0.9 | 87 | 0.02 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.589 | 0.782 | -32.8# | 107 | 0.01 |
| 85 | c | Di-n-octyl phthalate | 1.071 | 1.324 | -23.6# | 100 | 0.05 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 90 | 0.06 |
| 87 | | Indeno(1,2,3-cd)pyrene | 1.287 | 1.296 | -0.7 | 87 | 0.09 |
| 88 | | Benzo(b)fluoranthene | 1.218 | 1.164 | 4.4 | 88 | 0.05 |
| 89 | | Benzo(k)fluoranthene | 1.051 | 1.021 | 2.9 | 86 | 0.06 |
| 90 | C | Benzo(a)pyrene | 1.002 | 0.991 | 1.1 | 87 | 0.06 |
| 91 | | Dibenzo(a,h)anthracene | 1.073 | 1.071 | 0.2 | 86 | 0.08 |
| 92 | | Benzo(g,h,i)perylene | 1.072 | 1.091 | -1.8 | 87 | 0.09 |

Sample Results: **BF140113.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140113.D
Acq On : 29 Oct 2024 16:01
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Oct 29 16:37:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Sample Results: **BF140113.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140113.D
Acq On : 29 Oct 2024 16:01
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Oct 29 16:37:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 20.000 | 20.000 | 0.0 | 85 | 0.00 |
| 2 | | 1,4-Dioxane | 40.000 | 35.449 | 11.4 | 76 | -0.02 |
| 3 | | Pyridine | 40.000 | 37.029 | 7.4 | 77 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 36.484 | 8.8 | 76 | 0.00 |
| 5 | S | 2-Fluorophenol | 80.000 | 75.466 | 5.7 | 80 | 0.00 |
| 6 | | Aniline | 40.000 | 37.400 | 6.5 | 77 | 0.00 |
| 7 | S | Phenol-d6 | 80.000 | 74.313 | 7.1 | 79 | 0.00 |
| 8 | | 2-Chlorophenol | 40.000 | 38.133 | 4.7 | 81 | 0.00 |
| 9 | | Benzaldehyde | 40.000 | 41.873 | -4.7 | 88 | 0.00 |
| 10 | C | Phenol | 40.000 | 37.623 | 5.9 | 80 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 38.407 | 4.0 | 83 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 39.455 | 1.4 | 84 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 39.556 | 1.1 | 85 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 39.046 | 2.4 | 84 | 0.00 |
| 15 | | Benzyl Alcohol | 40.000 | 39.269 | 1.8 | 83 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 37.062 | 7.3 | 78 | 0.00 |
| 17 | | 2-Methylphenol | 40.000 | 38.339 | 4.2 | 81 | 0.00 |
| 18 | | Hexachloroethane | 40.000 | 40.829 | -2.1 | 86 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 37.718 | 5.7 | 82 | 0.00 |
| 20 | | 3+4-Methylphenols | 40.000 | 37.015 | 7.5 | 79 | 0.00 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 85 | 0.00 |
| 22 | | Acetophenone | 40.000 | 38.355 | 4.1 | 82 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 84.824 | -6.0 | 87 | 0.00 |
| 24 | | Nitrobenzene | 40.000 | 40.619 | -1.5 | 84 | 0.00 |
| 25 | | Isophorone | 40.000 | 39.719 | 0.7 | 85 | 0.00 |
| 26 | C | 2-Nitrophenol | 40.000 | 48.523 | -21.3# | 97 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 37.513 | 6.2 | 79 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 39.356 | 1.6 | 84 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 39.735 | 0.7 | 84 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 40.281 | -0.7 | 85 | 0.00 |
| 31 | | Naphthalene | 40.000 | 39.150 | 2.1 | 83 | 0.00 |
| 32 | | Benzoic acid | 40.000 | 42.786 | -7.0 | 89 | 0.02 |
| 33 | | 4-Chloroaniline | 40.000 | 37.392 | 6.5 | 79 | 0.00 |
| 34 | C | Hexachlorobutadiene | 40.000 | 42.045 | -5.1 | 89 | 0.00 |
| 35 | | Caprolactam | 40.000 | 40.322 | -0.8 | 84 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 40.534 | -1.3 | 85 | 0.00 |
| 37 | | 2-Methylnaphthalene | 40.000 | 39.586 | 1.0 | 85 | 0.00 |
| 38 | | 1-Methylnaphthalene | 40.000 | 39.213 | 2.0 | 84 | 0.00 |
| 39 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 86 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 40.953 | -2.4 | 88 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 40.000 | 40.499 | -1.2 | 82 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 80.000 | 87.674 | -9.6 | 94 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 40.000 | 39.456 | 1.4 | 84 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 40.000 | 42.243 | -5.6 | 89 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 80.000 | 78.623 | 1.7 | 88 | 0.00 |
| 46 | | 1,1'-Biphenyl | 40.000 | 39.415 | 1.5 | 86 | 0.00 |
| 47 | | 2-Chloronaphthalene | 40.000 | 39.365 | 1.6 | 85 | 0.00 |

Sample Results: **BF140113.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140113.D
Acq On : 29 Oct 2024 16:01
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Oct 29 16:37:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 48 | | 2-Nitroaniline | 40.000 | 44.457 | -11.1 | 90 | 0.00 |
| 49 | | Acenaphthylene | 40.000 | 39.447 | 1.4 | 85 | 0.00 |
| 50 | | Dimethylphthalate | 40.000 | 40.570 | -1.4 | 88 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 40.000 | 43.855 | -9.6 | 91 | 0.00 |
| 52 | C | Acenaphthene | 40.000 | 40.984 | -2.5 | 88 | 0.00 |
| 53 | | 3-Nitroaniline | 40.000 | 41.951 | -4.9 | 86 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 40.000 | 58.514 | -46.3# | 135 | 0.00 |
| 55 | | Dibenzofuran | 40.000 | 39.355 | 1.6 | 86 | 0.00 |
| 56 | P | 4-Nitrophenol | 40.000 | 41.221 | -3.1 | 82 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 40.000 | 46.867 | -17.2 | 94 | 0.00 |
| 58 | | Fluorene | 40.000 | 39.850 | 0.4 | 88 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 40.000 | 41.653 | -4.1 | 89 | 0.00 |
| 60 | | Diethylphthalate | 40.000 | 41.206 | -3.0 | 89 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 40.000 | 40.876 | -2.2 | 89 | 0.00 |
| 62 | | 4-Nitroaniline | 40.000 | 43.399 | -8.5 | 89 | 0.00 |
| 63 | | Azobenzene | 40.000 | 39.122 | 2.2 | 83 | 0.00 |
| 64 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 85 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 40.000 | 61.186 | -53.0# | 121 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 40.000 | 39.705 | 0.7 | 85 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 40.000 | 42.641 | -6.6 | 92 | 0.00 |
| 68 | | Hexachlorobenzene | 40.000 | 41.784 | -4.5 | 89 | 0.00 |
| 69 | | Atrazine | 40.000 | 39.824 | 0.4 | 78 | 0.00 |
| 70 | C | Pentachlorophenol | 40.000 | 43.987 | -10.0 | 86 | 0.00 |
| 71 | | Phenanthrene | 40.000 | 38.597 | 3.5 | 83 | 0.00 |
| 72 | | Anthracene | 40.000 | 39.149 | 2.1 | 84 | 0.00 |
| 73 | | Carbazole | 40.000 | 37.302 | 6.7 | 80 | 0.00 |
| 74 | | Di-n-butylphthalate | 40.000 | 41.318 | -3.3 | 86 | 0.00 |
| 75 | C | Fluoranthene | 40.000 | 37.641 | 5.9 | 81 | 0.00 |
| 76 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 86 | 0.02 |
| 77 | | Benzidine | 40.000 | 64.341 | -60.9# | 124 | 0.00 |
| 78 | | Pyrene | 40.000 | 38.362 | 4.1 | 80 | 0.00 |
| 79 | S | Terphenyl-d14 | 80.000 | 78.775 | 1.5 | 83 | 0.00 |
| 80 | | Butylbenzylphthalate | 40.000 | 46.523 | -16.3 | 94 | 0.00 |
| 81 | | Benzo(a)anthracene | 40.000 | 39.630 | 0.9 | 83 | 0.02 |
| 82 | | 3,3'-Dichlorobenzidine | 40.000 | 46.617 | -16.5 | 98 | 0.02 |
| 83 | | Chrysene | 40.000 | 39.644 | 0.9 | 87 | 0.02 |
| 84 | | Bis(2-ethylhexyl)phthalate | 40.000 | 53.115 | -32.8# | 107 | 0.01 |
| 85 | c | Di-n-octyl phthalate | 40.000 | 49.448 | -23.6# | 100 | 0.05 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 90 | 0.06 |
| 87 | | Indeno(1,2,3-cd)pyrene | 40.000 | 40.304 | -0.8 | 87 | 0.09 |
| 88 | | Benzo(b)fluoranthene | 40.000 | 38.226 | 4.4 | 88 | 0.05 |
| 89 | | Benzo(k)fluoranthene | 40.000 | 38.880 | 2.8 | 86 | 0.06 |
| 90 | C | Benzo(a)pyrene | 40.000 | 39.554 | 1.1 | 87 | 0.06 |
| 91 | | Dibenzo(a,h)anthracene | 40.000 | 39.895 | 0.3 | 86 | 0.08 |
| 92 | | Benzo(g,h,i)perylene | 40.000 | 40.704 | -1.8 | 87 | 0.09 |

Sample Results: **BF140113.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140113.D
Acq On : 29 Oct 2024 16:01
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Oct 29 16:37:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|

(#) = Out of Range SPCC's out = 0 CCC's out = 2

# QC SAMPLE DATA

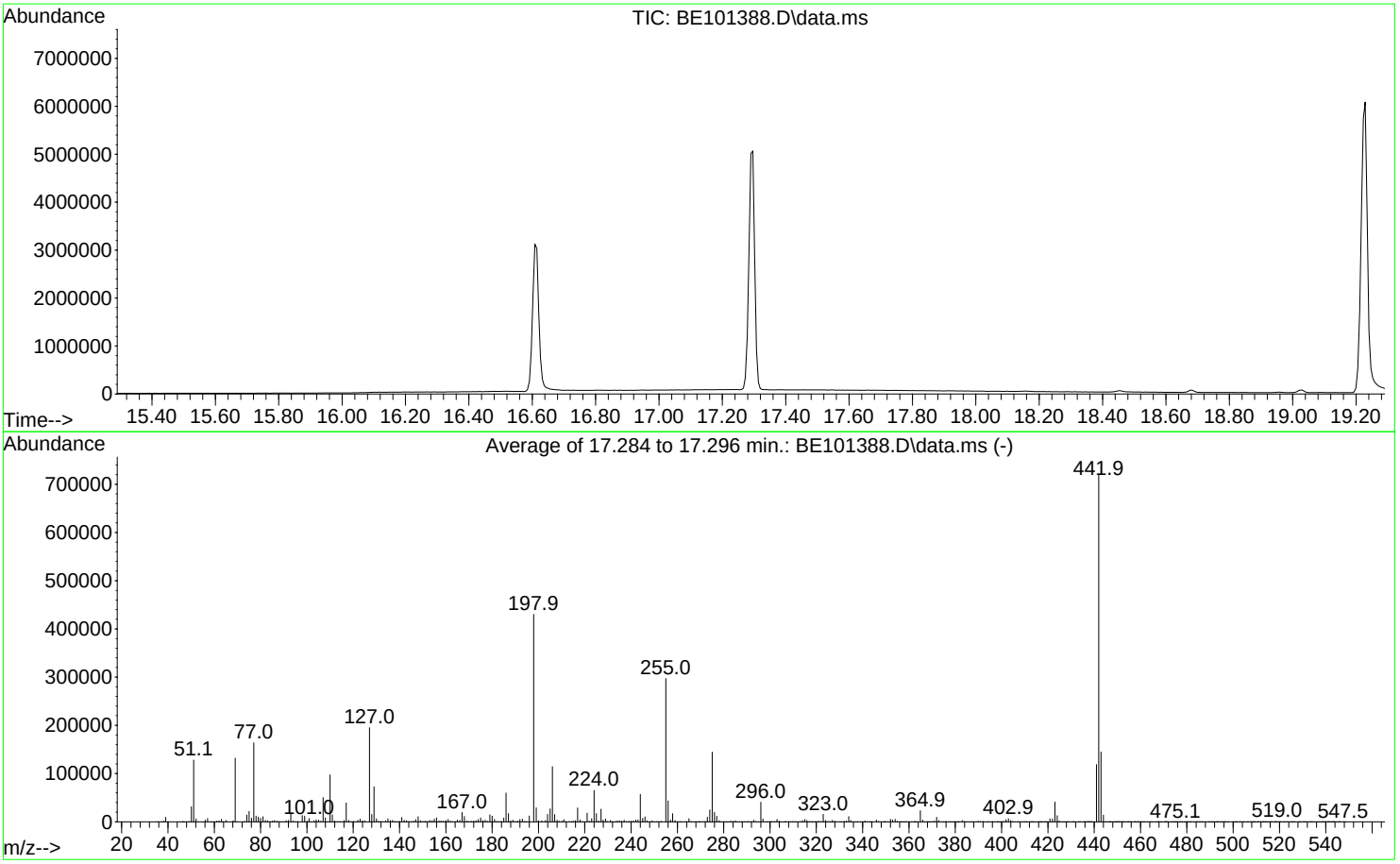
Sample Results: **BE101388.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101388.D
Acq On : 28 Oct 2024 10:51
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Oct 29 01:26:30 2024




AutoFind: Scans 2501, 2502, 2503; Background Corrected with Scan 2494

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 29.8 | 128023 | PASS |
| 68 | 69 | 0.00 | 2 | 1.5 | 1984 | PASS |
| 69 | 198 | 0.00 | 100 | 30.7 | 132146 | PASS |
| 70 | 69 | 0.00 | 2 | 0.1 | 198 | PASS |
| 127 | 198 | 10 | 80 | 45.4 | 195155 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 430187 | PASS |
| 199 | 198 | 5 | 9 | 6.7 | 28884 | PASS |
| 275 | 198 | 10 | 60 | 33.5 | 144206 | PASS |
| 365 | 198 | 1 | 100 | 5.4 | 23020 | PASS |
| 441 | 198 | 0.01 | 100 | 27.6 | 118563 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 720425 | PASS |
| 443 | 442 | 15 | 24 | 20.1 | 144667 | PASS |

## DDT Breakdown

| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 10/28/2024 | BNA_E | BE101388.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 1836699 | 20.351 |
| DDD | 25787 | 19.916 |
| DDE | 1987 | 19.405 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 27774 | 1864473 | 1.49 |
| | | |

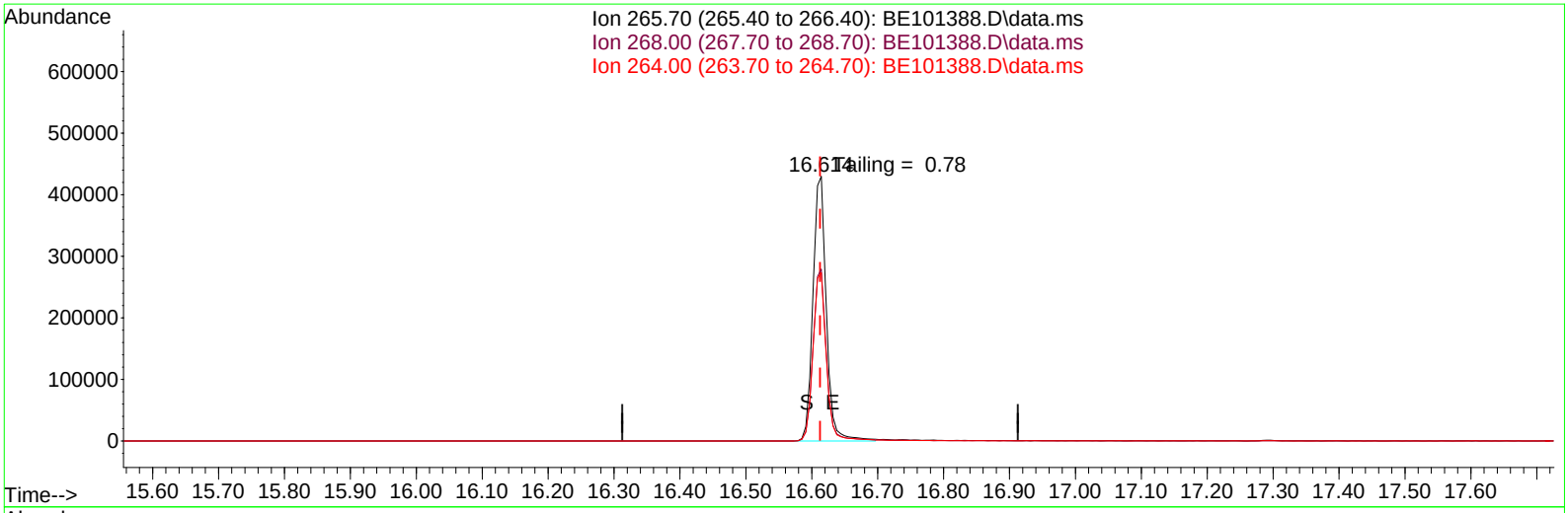
Instrument :
BNA_E
ClientSampleId :
DFTPP

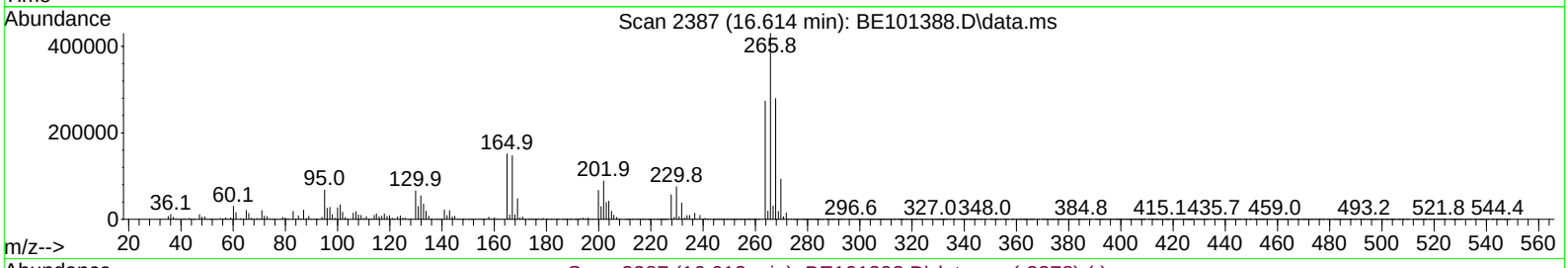
Sample Results: **BE101388.D**

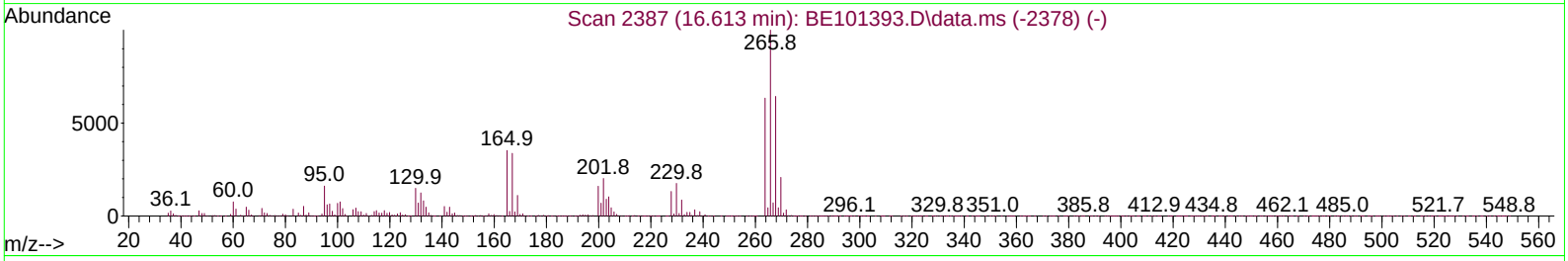
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101388.D
Acq On : 28 Oct 2024 10:51
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
DFTPP

Quant Time: Oct 29 01:32:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration




TIC: BE101388.D\data.ms

**(70) Pentachlorophenol (C)**

**16.614min (+ 0.002) 1241130.64 ng**

**response 610726**

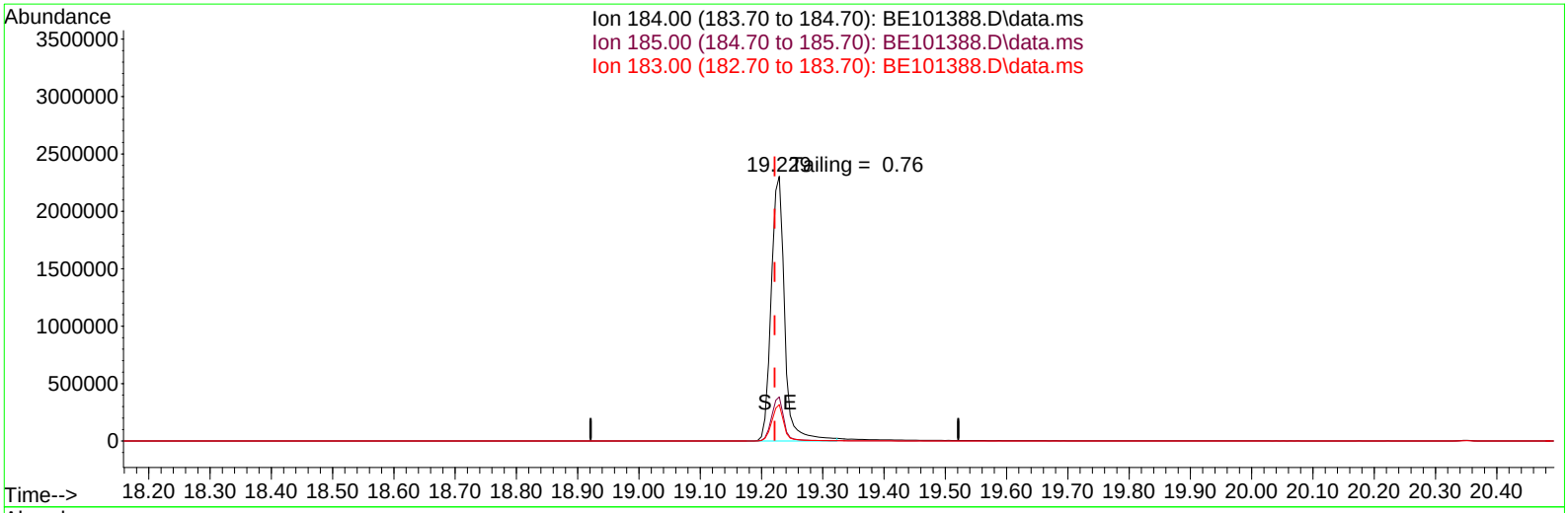
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 64.40 | 64.96 |
| 264.00 | 63.40 | 63.56 |
| 0.00 | 0.00 | 0.00 |

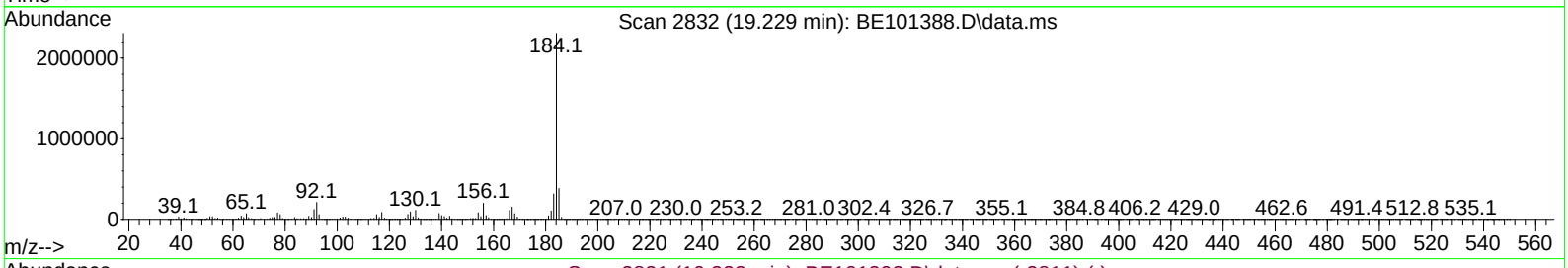
Sample Results: **BE101388.D**

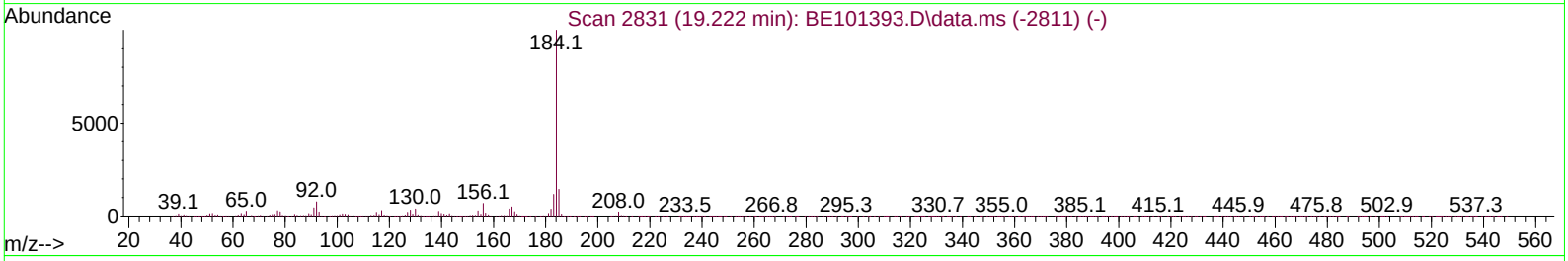
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101388.D
Acq On : 28 Oct 2024 10:51
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
DFTPP

Quant Time: Oct 29 01:32:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration




TIC: BE101388.D\data.ms

**(77) Benzidine**

**19.229min (+ 0.008) 277076.80 ng**

**response 3629102**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 14.40 | 16.64 |
| 183.00 | 11.60 | 13.72 |
| 0.00 | 0.00 | 0.00 |

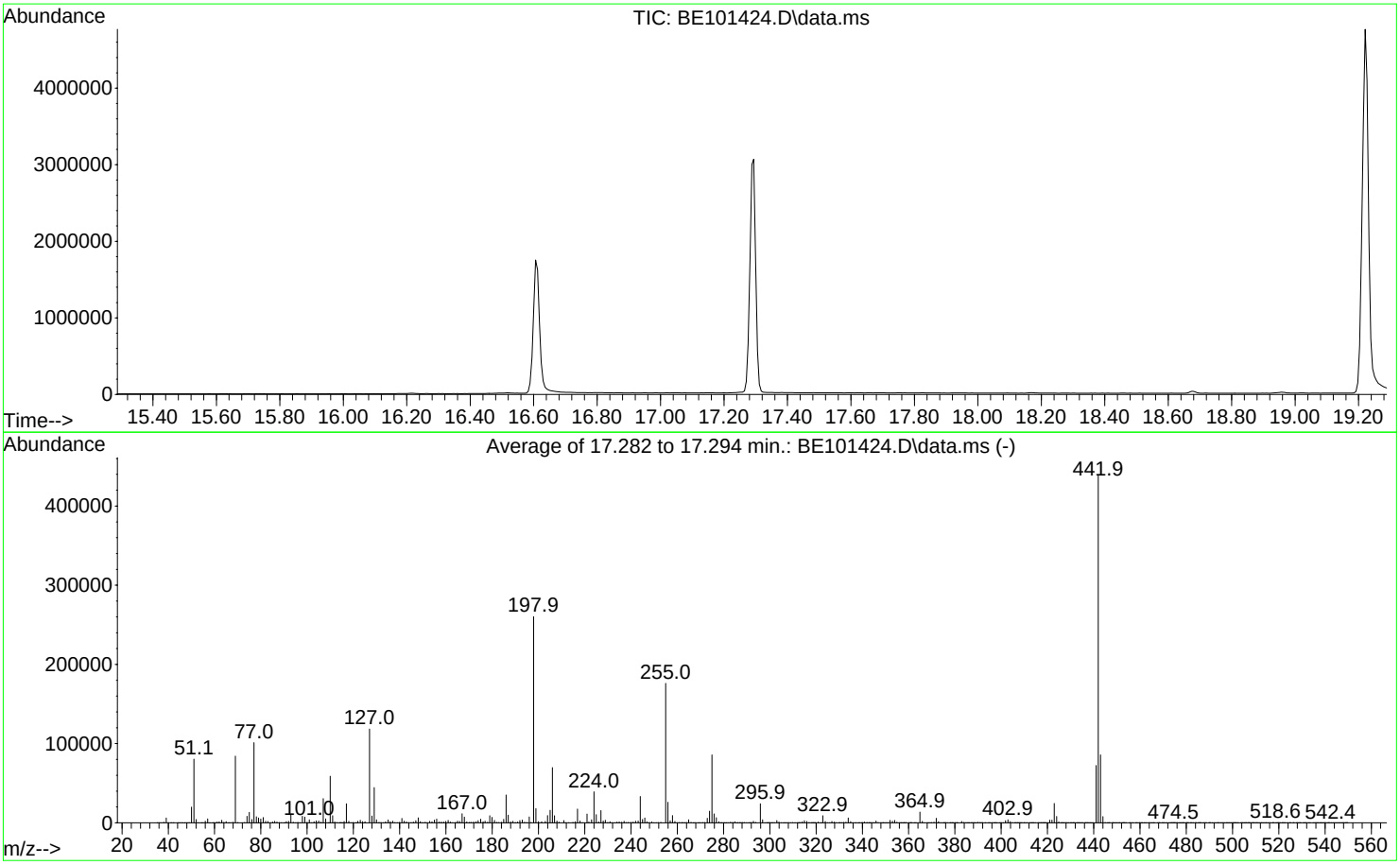
Sample Results: **BE101424.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101424.D
Acq On : 31 Oct 2024 9:40
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Oct 29 01:26:30 2024



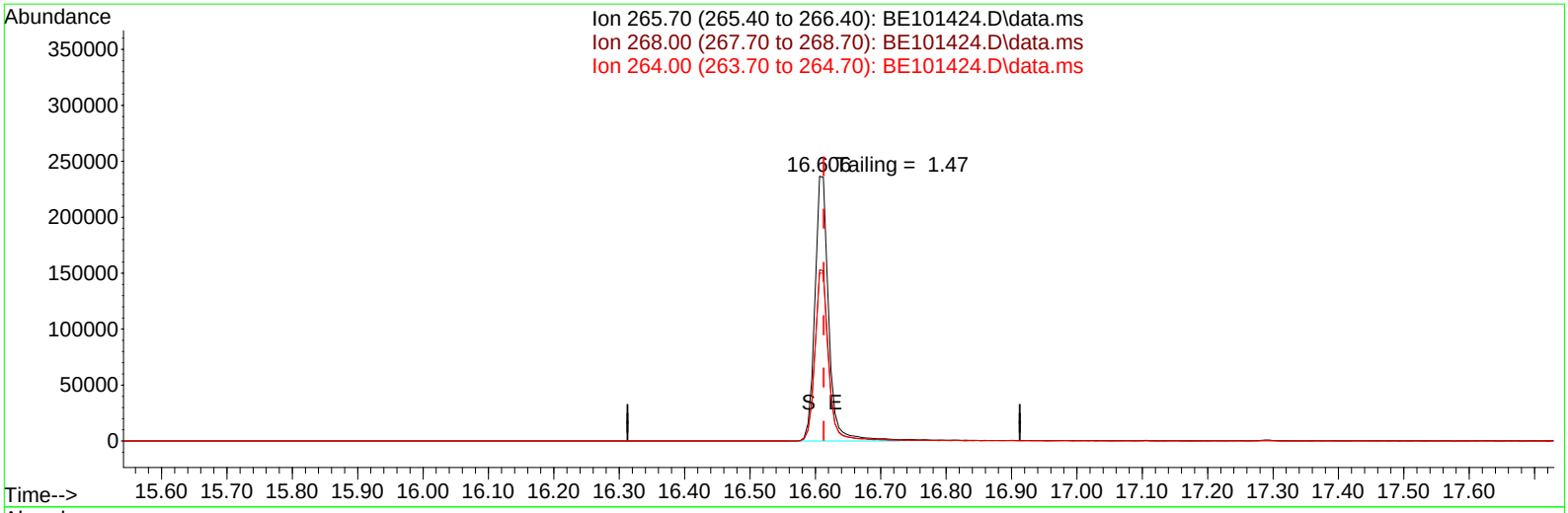

AutoFind: Scans 2501, 2502, 2503; Background Corrected with Scan 2492

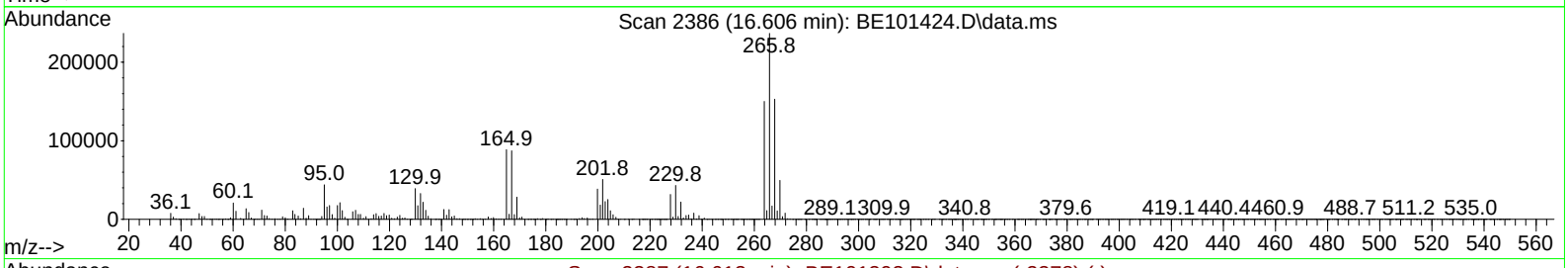
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 30.9 | 80401 | PASS |
| 68 | 69 | 0.00 | 2 | 0.8 | 691 | PASS |
| 69 | 198 | 0.00 | 100 | 32.4 | 84267 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 389 | PASS |
| 127 | 198 | 10 | 80 | 45.5 | 118439 | PASS |
| 197 | 198 | 0.00 | 2 | 0.2 | 400 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 260309 | PASS |
| 199 | 198 | 5 | 9 | 6.9 | 17941 | PASS |
| 275 | 198 | 10 | 60 | 32.9 | 85684 | PASS |
| 365 | 198 | 1 | 100 | 5.2 | 13582 | PASS |
| 441 | 198 | 0.01 | 100 | 27.8 | 72413 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 439142 | PASS |
| 443 | 442 | 15 | 24 | 19.6 | 85860 | PASS |

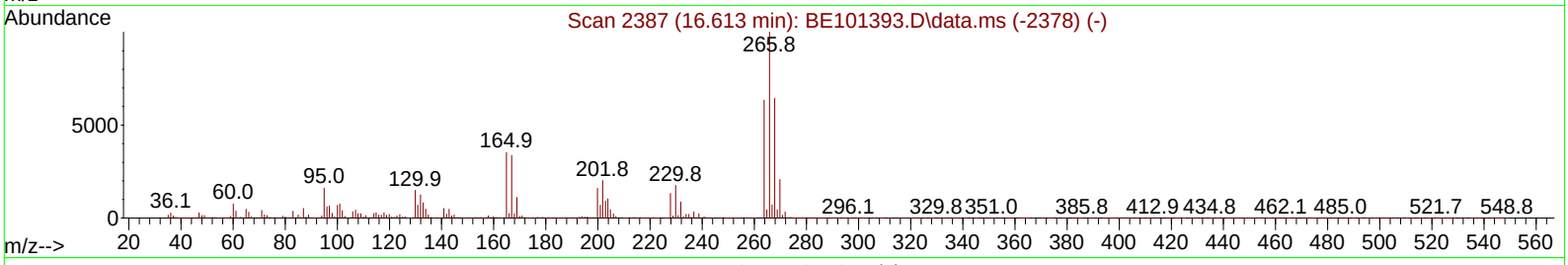
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101424.D
Acq On : 31 Oct 2024 9:40
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
DFTPP

Quant Time: Oct 31 18:55:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration




TIC: BE101424.D\data.ms

**(70) Pentachlorophenol (C)**

**16.606min (-0.007) 35129.78 ng**

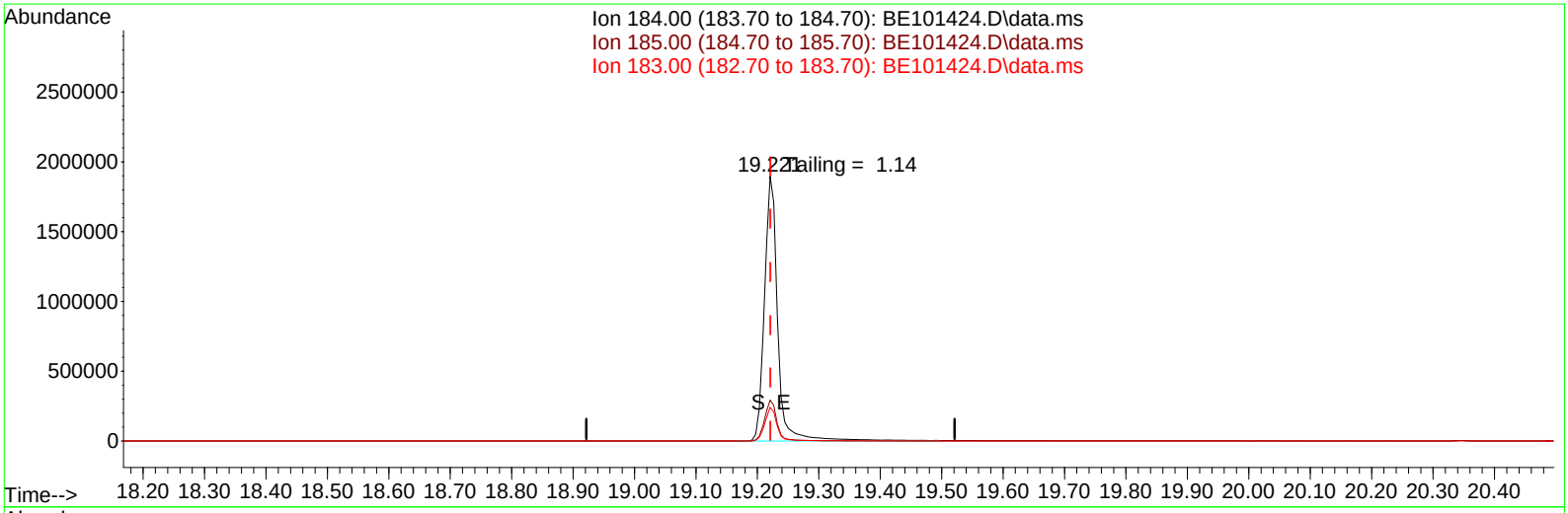
**response 348516**

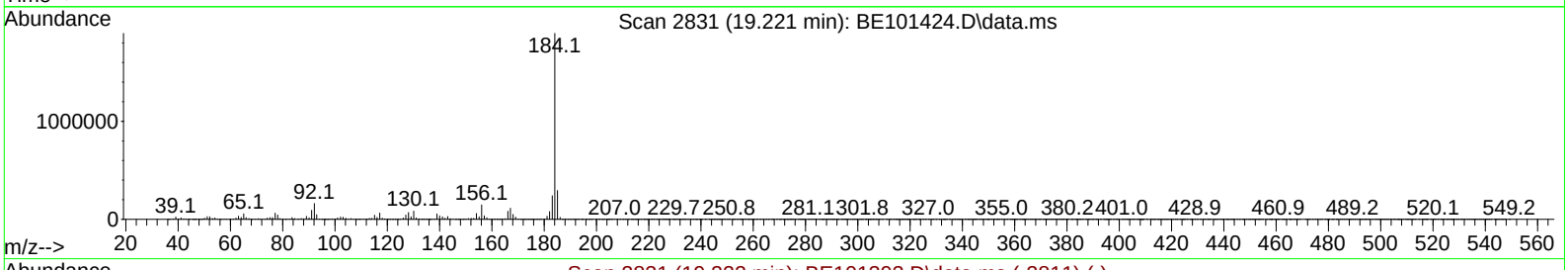
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 64.40 | 64.63 |
| 264.00 | 63.40 | 63.44 |
| 0.00 | 0.00 | 0.00 |

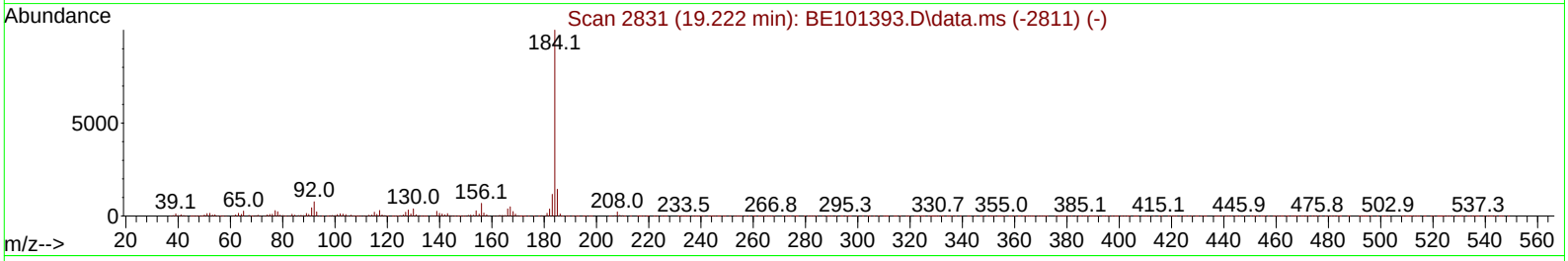
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101424.D
Acq On : 31 Oct 2024 9:40
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
DFTPP

Quant Time: Oct 31 18:55:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration




TIC: BE101424.D\data.ms

**(77) Benzidine**

**19.221min (-0.001) 20555.57 ng**

**response 2867124**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 14.40 | 15.47 |
| 183.00 | 11.60 | 12.69 |
| 0.00 | 0.00 | 0.00 |

## DDT Breakdown

| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 10/31/2024 | BNA_E | BE101424.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 1107960 | 20.349 |
| DDD | 32485 | 19.914 |
| DDE | 1234 | 19.403 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 33719 | 1141679 | 2.95 |
| | | |

Instrument :
BNA_E
ClientSampleId :
DFTPP

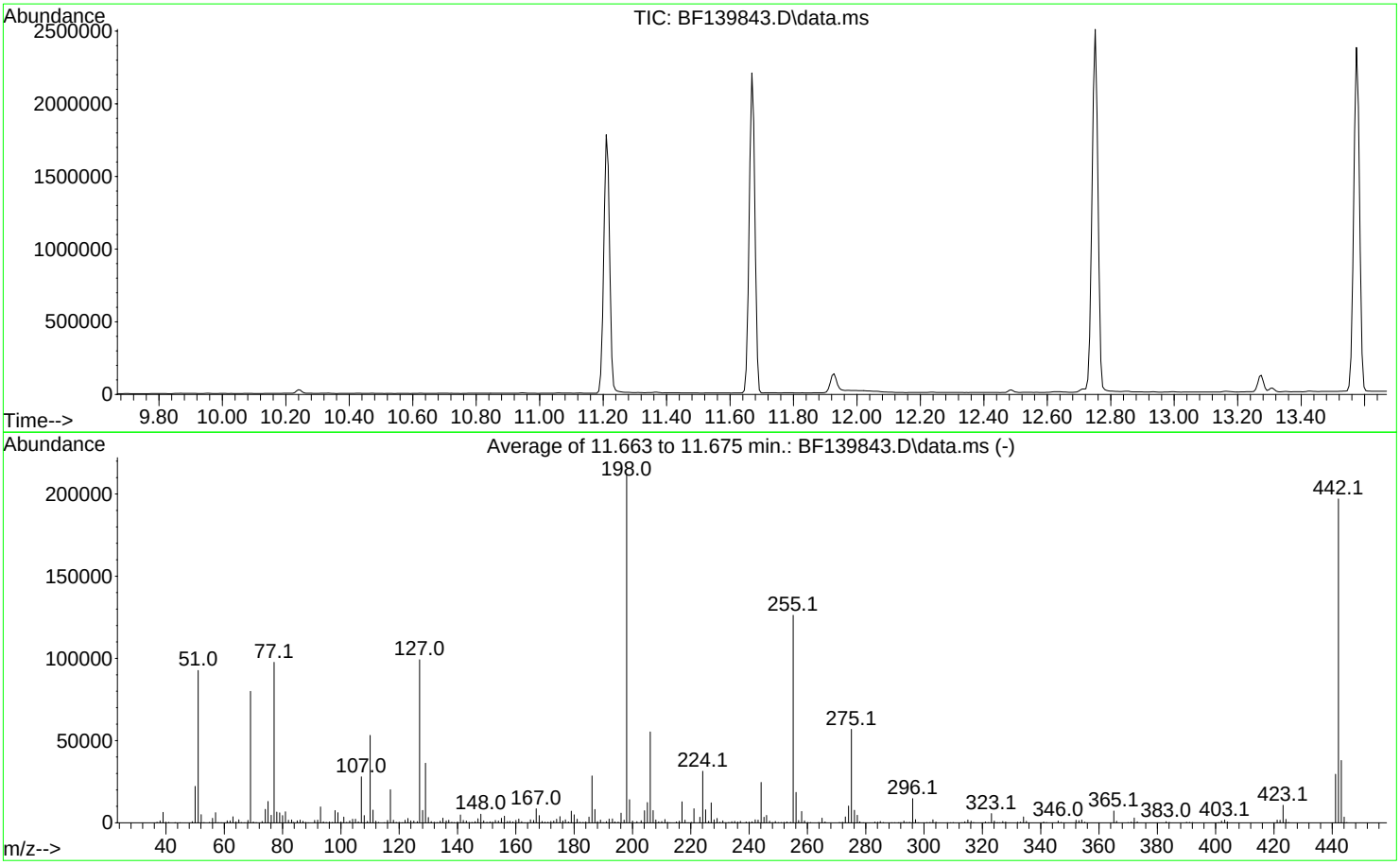
Sample Results: **BF139843.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139843.D
Acq On : 18 Oct 2024 09:22
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024




AutoFind: Scans 1627, 1628, 1629; Background Corrected with Scan 1621

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 43.8 | 92701 | PASS |
| 68 | 69 | 0.00 | 2 | 1.9 | 1486 | PASS |
| 69 | 198 | 0.00 | 100 | 37.8 | 79959 | PASS |
| 70 | 69 | 0.00 | 2 | 0.7 | 529 | PASS |
| 127 | 198 | 10 | 80 | 46.9 | 99176 | PASS |
| 197 | 198 | 0.00 | 2 | 0.8 | 1650 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 211520 | PASS |
| 199 | 198 | 5 | 9 | 6.7 | 14078 | PASS |
| 275 | 198 | 10 | 60 | 26.9 | 56867 | PASS |
| 365 | 198 | 1 | 100 | 3.4 | 7148 | PASS |
| 441 | 198 | 0.01 | 100 | 14.0 | 29512 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 196979 | PASS |
| 443 | 442 | 15 | 24 | 19.2 | 37896 | PASS |

## DDT Breakdown

| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 10/18/2024 | BNA_F | BF139843.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 585942 | 13.574 |
| DDD | 33558 | 13.274 |
| DDE | 421 | 12.939 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 33979 | 619921 | 5.48 |
| | | |

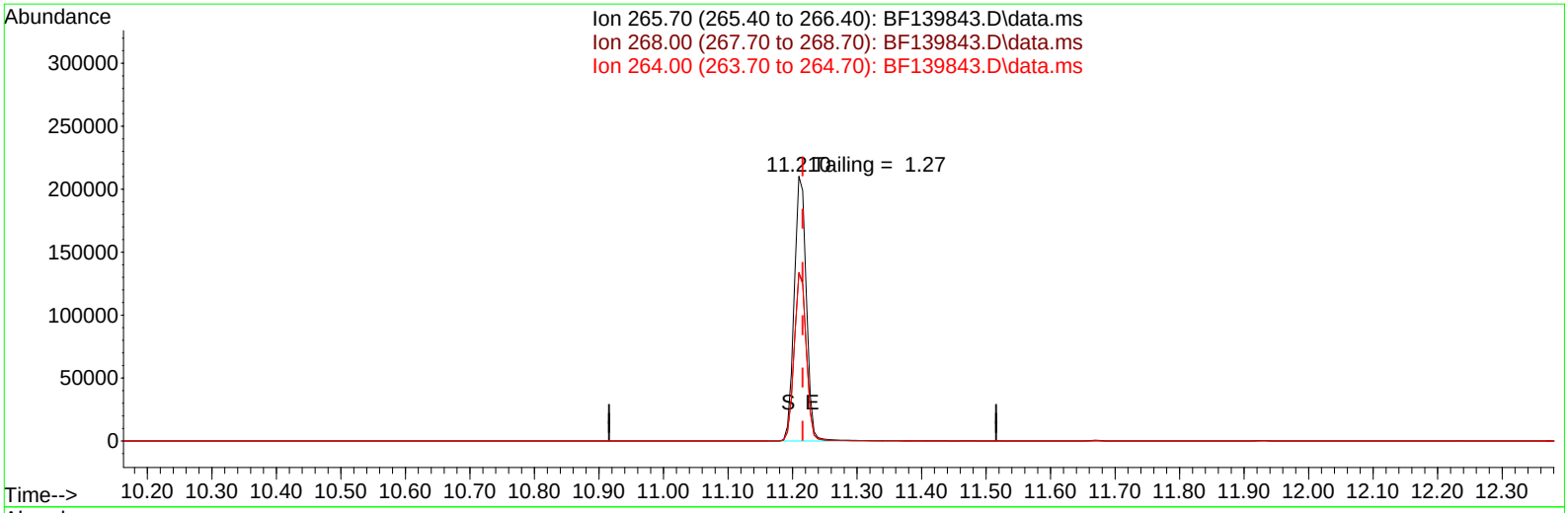
Instrument :
BNA_F
ClientSampleId :
DFTPP

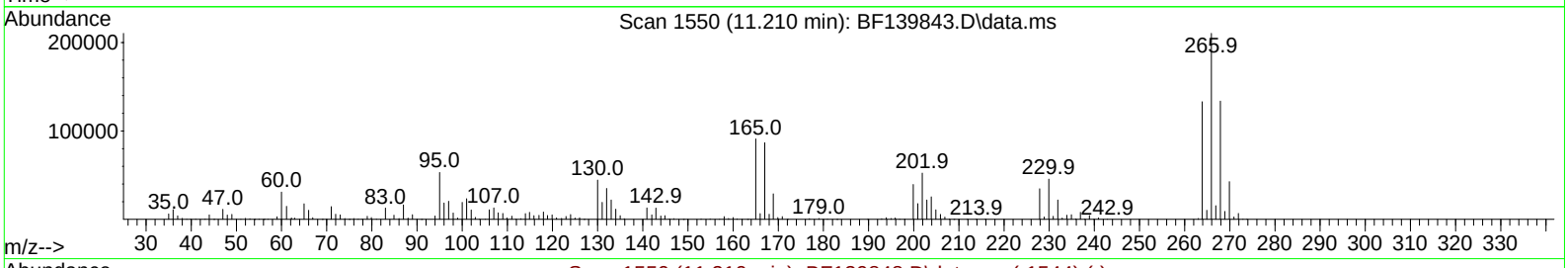
Sample Results: **BF139843.D**

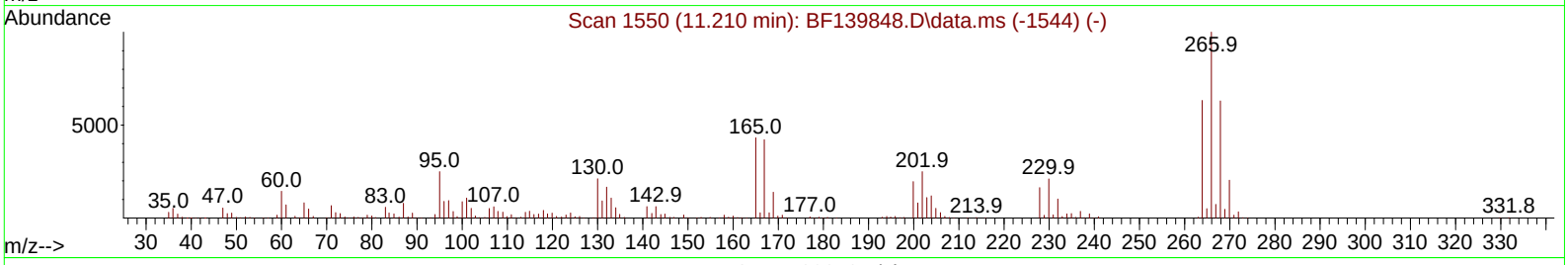
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139843.D
Acq On : 18 Oct 2024 09:22
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Quant Time: Oct 18 11:03:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 11:03:04 2024
Response via : Initial Calibration




TIC: BF139843.D\data.ms

**(70) Pentachlorophenol (C)**

**11.210min (-0.006) 60102.24 ng**

**response 277191**

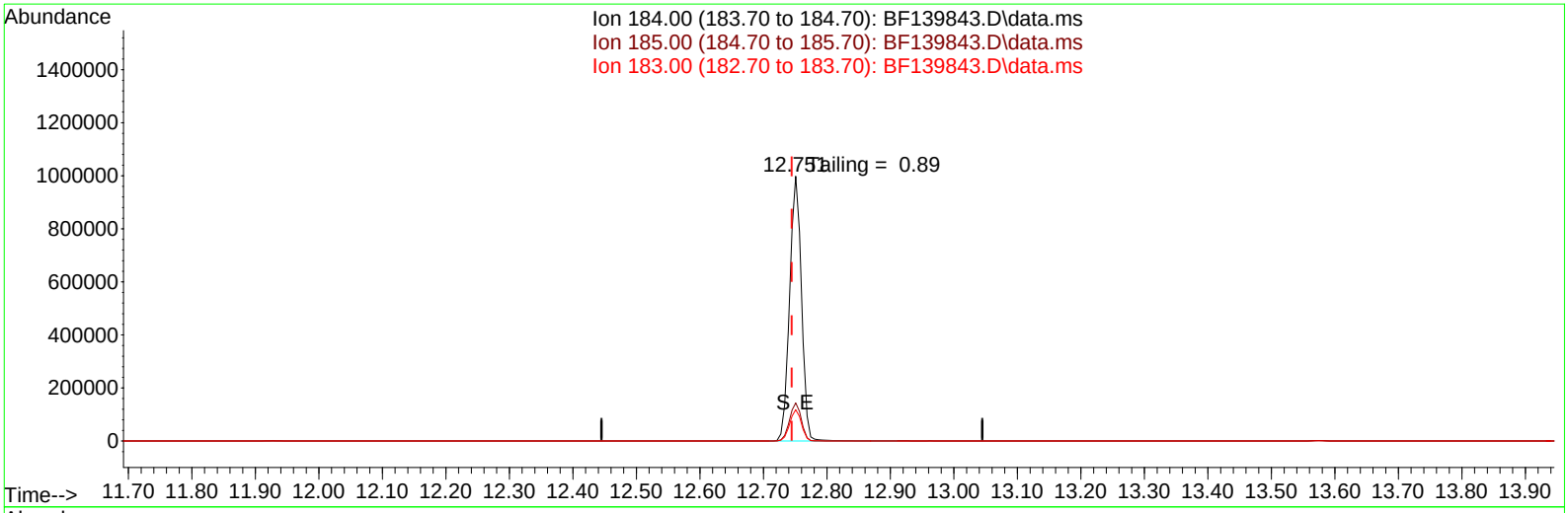
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 63.00 | 63.60 |
| 264.00 | 62.50 | 63.30 |
| 0.00 | 0.00 | 0.00 |

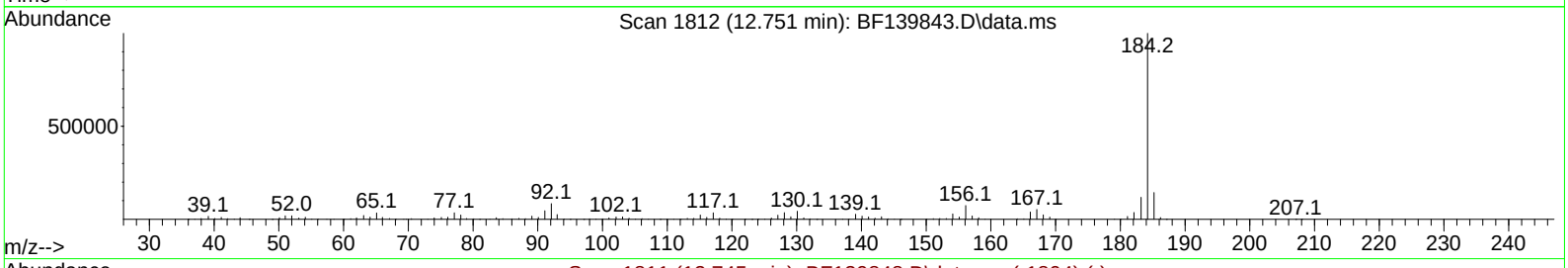
Sample Results: **BF139843.D**

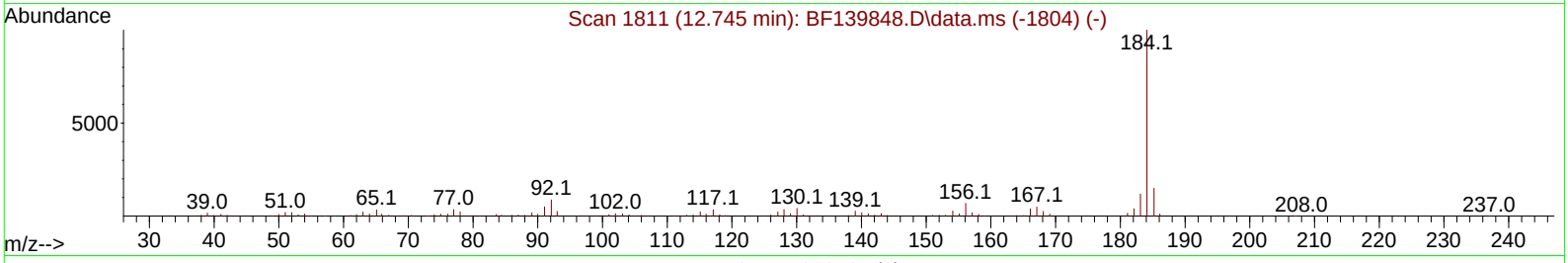
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139843.D
Acq On : 18 Oct 2024 09:22
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Quant Time: Oct 18 11:03:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 11:03:04 2024
Response via : Initial Calibration




TIC: BF139843.D\data.ms

**(77) Benzidine**

**12.751min (+ 0.006) 86231.01 ng**

**response 1303015**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 14.40 | 14.39 |
| 183.00 | 11.70 | 11.82 |
| 0.00 | 0.00 | 0.00 |

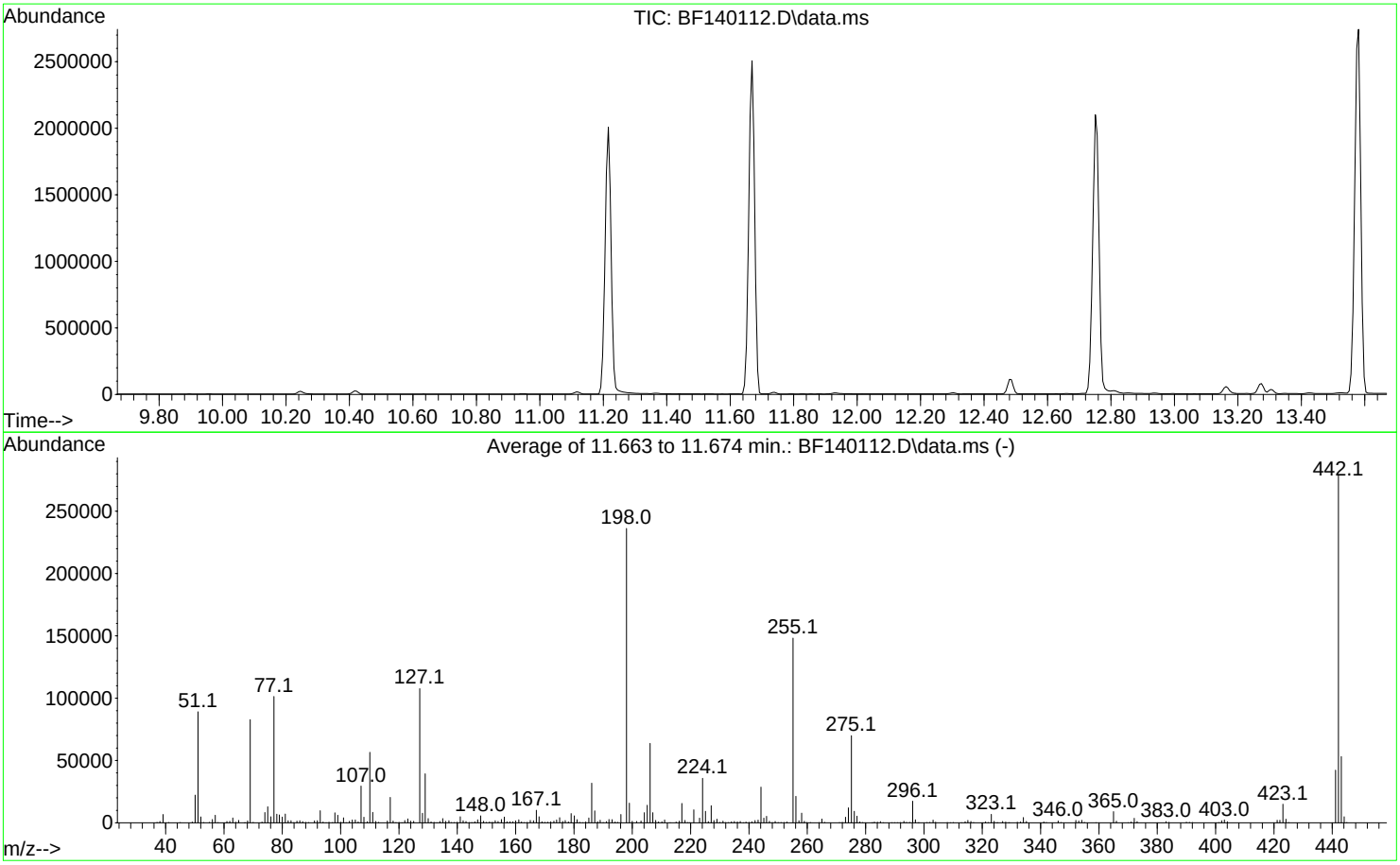
Sample Results: **BF140112.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140112.D
Acq On : 29 Oct 2024 15:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024



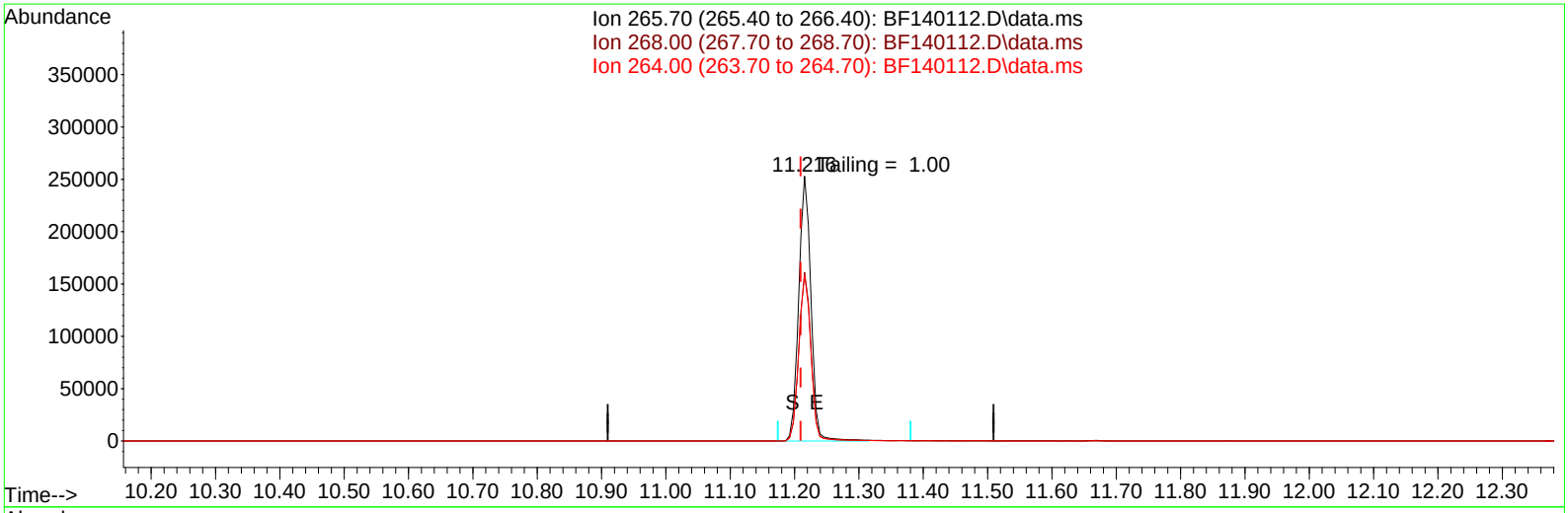

AutoFind: Scans 1627, 1628, 1629; Background Corrected with Scan 1620

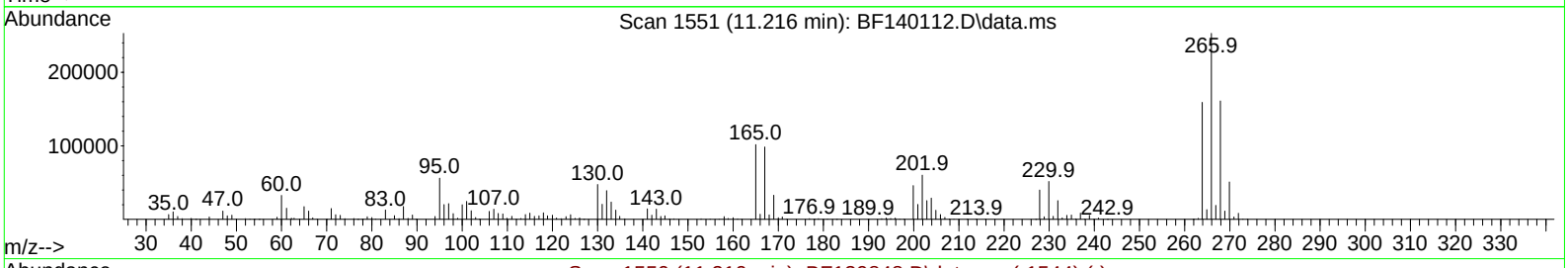
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 37.7 | 89133 | PASS |
| 68 | 69 | 0.00 | 2 | 1.9 | 1537 | PASS |
| 69 | 198 | 0.00 | 100 | 35.1 | 82843 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 379 | PASS |
| 127 | 198 | 10 | 80 | 45.6 | 107720 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 236160 | PASS |
| 199 | 198 | 5 | 9 | 6.7 | 15805 | PASS |
| 275 | 198 | 10 | 60 | 29.6 | 69907 | PASS |
| 365 | 198 | 1 | 100 | 3.8 | 8929 | PASS |
| 441 | 198 | 0.01 | 100 | 17.9 | 42256 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 279061 | PASS |
| 443 | 442 | 15 | 24 | 19.1 | 53197 | PASS |

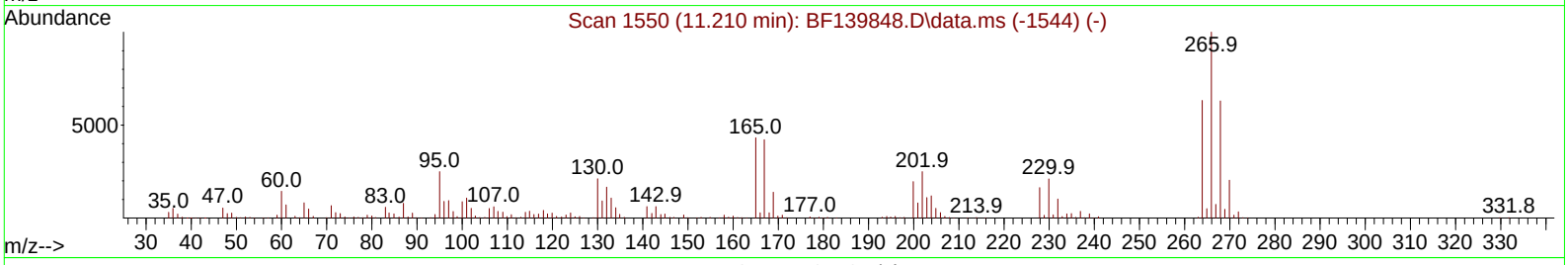
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140112.D
Acq On : 29 Oct 2024 15:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Quant Time: Oct 29 16:07:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration




TIC: BF140112.D\data.ms

**(70) Pentachlorophenol (C)**

**11.216min (+ 0.006) 107927.56 ng**

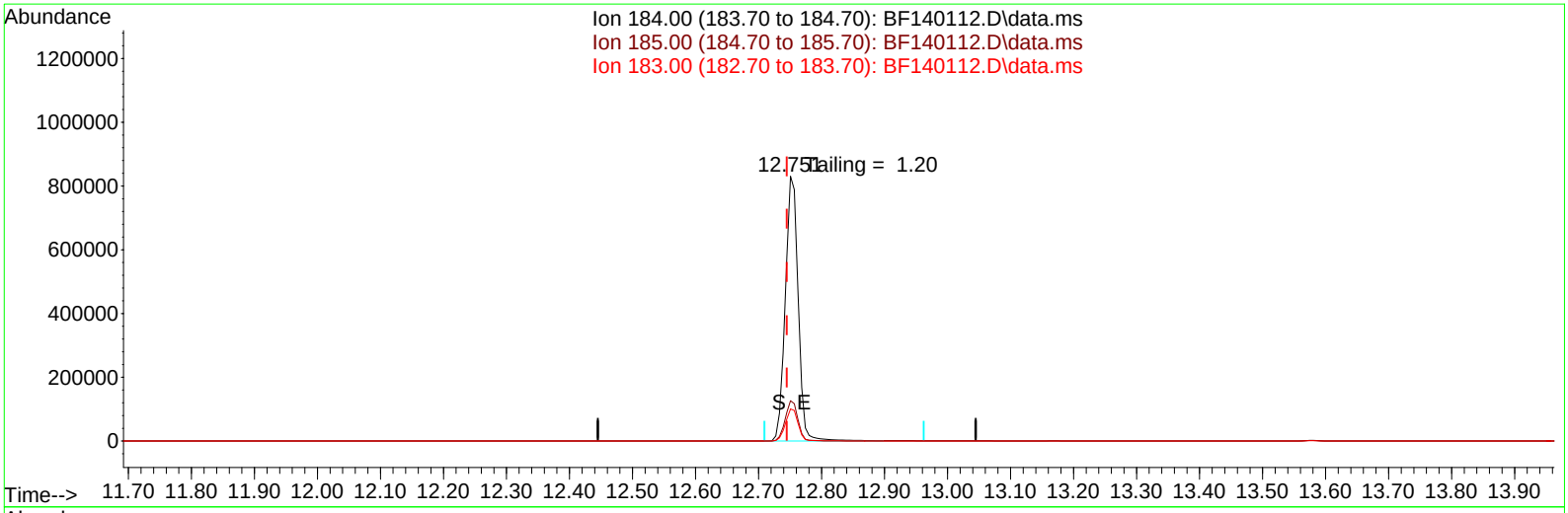
**response 336959**

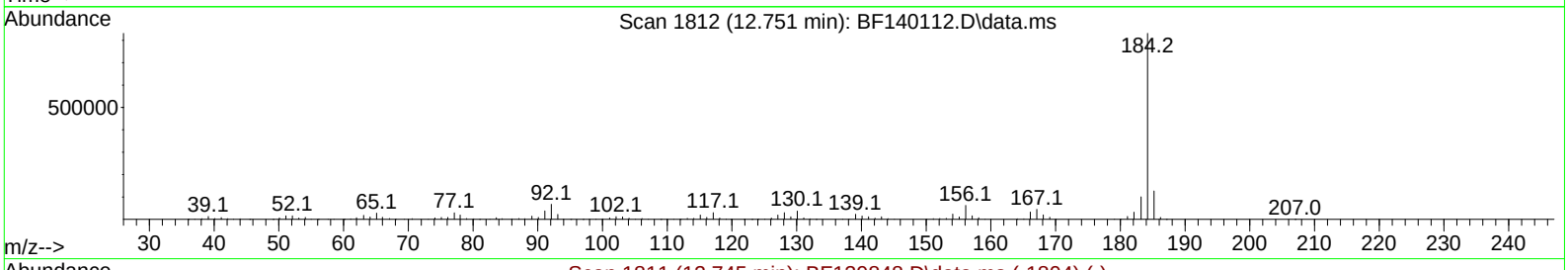
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 63.00 | 63.70 |
| 264.00 | 63.20 | 62.91 |
| 0.00 | 0.00 | 0.00 |

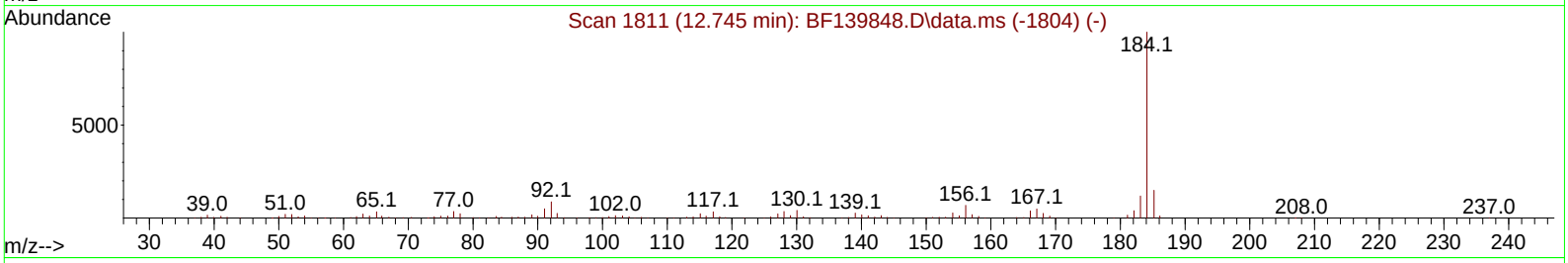
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140112.D
Acq On : 29 Oct 2024 15:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Quant Time: Oct 29 16:07:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration




TIC: BF140112.D\data.ms

**(77) Benzidine**

**12.751min (+ 0.006) 174264.48 ng**

**response 1186317**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.00 | 15.23 |
| 183.00 | 11.80 | 12.10 |
| 0.00 | 0.00 | 0.00 |

## DDT Breakdown

| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 10/29/2024 | BNA_F | BF140112.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 730796 | 13.58 |
| DDD | 10774 | 13.304 |
| DDE | 1439 | 12.939 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 12213 | 743009 | 1.64 |
| | | |

Instrument :
BNA_F
ClientSampleId :
DFTPP

Raw Data: **BF140114.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tully Construction Co., Inc. | Date Collected: | |
| Project: | Pitkin Yard | Date Received: | |
| Client Sample ID: | PB164497BL | SDG No.: | P4595 |
| Lab Sample ID: | PB164497BL | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 100 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-PAH |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140114.D | 1 | 10/29/24 09:15 | 10/29/24 16:26 | PB164497 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 91-20-3 | Naphthalene | 0.083 | U | 0.083 | 0.17 | mg/Kg |
| 208-96-8 | Acenaphthylene | 0.087 | U | 0.087 | 0.17 | mg/Kg |
| 83-32-9 | Acenaphthene | 0.081 | U | 0.081 | 0.17 | mg/Kg |
| 86-73-7 | Fluorene | 0.086 | U | 0.086 | 0.17 | mg/Kg |
| 85-01-8 | Phenanthrene | 0.084 | U | 0.084 | 0.17 | mg/Kg |
| 120-12-7 | Anthracene | 0.084 | U | 0.084 | 0.17 | mg/Kg |
| 206-44-0 | Fluoranthene | 0.082 | U | 0.082 | 0.17 | mg/Kg |
| 129-00-0 | Pyrene | 0.083 | U | 0.083 | 0.17 | mg/Kg |
| 56-55-3 | Benzo(a)anthracene | 0.081 | U | 0.081 | 0.17 | mg/Kg |
| 218-01-9 | Chrysene | 0.080 | U | 0.080 | 0.17 | mg/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 0.081 | U | 0.081 | 0.17 | mg/Kg |
| 207-08-9 | Benzo(k)fluoranthene | 0.083 | U | 0.083 | 0.17 | mg/Kg |
| 50-32-8 | Benzo(a)pyrene | 0.093 | U | 0.093 | 0.17 | mg/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.078 | U | 0.078 | 0.17 | mg/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.081 | U | 0.081 | 0.17 | mg/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 0.080 | U | 0.080 | 0.17 | mg/Kg |
| **SURROGATES** | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 90.3 | | 18 - 107 | 90% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 85.1 | | 20 - 109 | 85% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 87.9 | | 10 - 105 | 88% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 132000 | 6.887 | | | |
| 1146-65-2 | Naphthalene-d8 | 529000 | 8.169 | | | |
| 15067-26-2 | Acenaphthene-d10 | 310000 | 9.922 | | | |
| 1517-22-2 | Phenanthrene-d10 | 594000 | 11.41 | | | |
| 1719-03-5 | Chrysene-d12 | 363000 | 14.063 | | | |
| 1520-96-3 | Perylene-d12 | 300000 | 15.568 | | | |

Raw Data: **BF140114.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client: | Tully Construction Co., Inc. | | | Date Collected: | | | |
| Project: | Pitkin Yard | | | Date Received: | | | |
| Client Sample ID: | PB164497BL | | | SDG No.: | P4595 | | |
| Lab Sample ID: | PB164497BL | | | Matrix: | SOIL | | |
| Analytical Method: | SW8270 | | | % Solid: | 100 | | |
| Sample Wt/Vol: | 30.01 | Units: | g | Final Vol: | 1000 | | uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOC-PAH | | |
| Extraction Type : | | | Decanted : N | Level : | LOW | | |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : | N | PH : | |
| Prep Method : | SW3541 | | | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140114.D | 1 | 10/29/24 09:15 | 10/29/24 16:26 | PB164497 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140114.D
Acq On : 29 Oct 2024 16:26
Operator : RC/JU
Sample : PB164497BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB164497BL

Quant Time: Oct 29 17:02:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

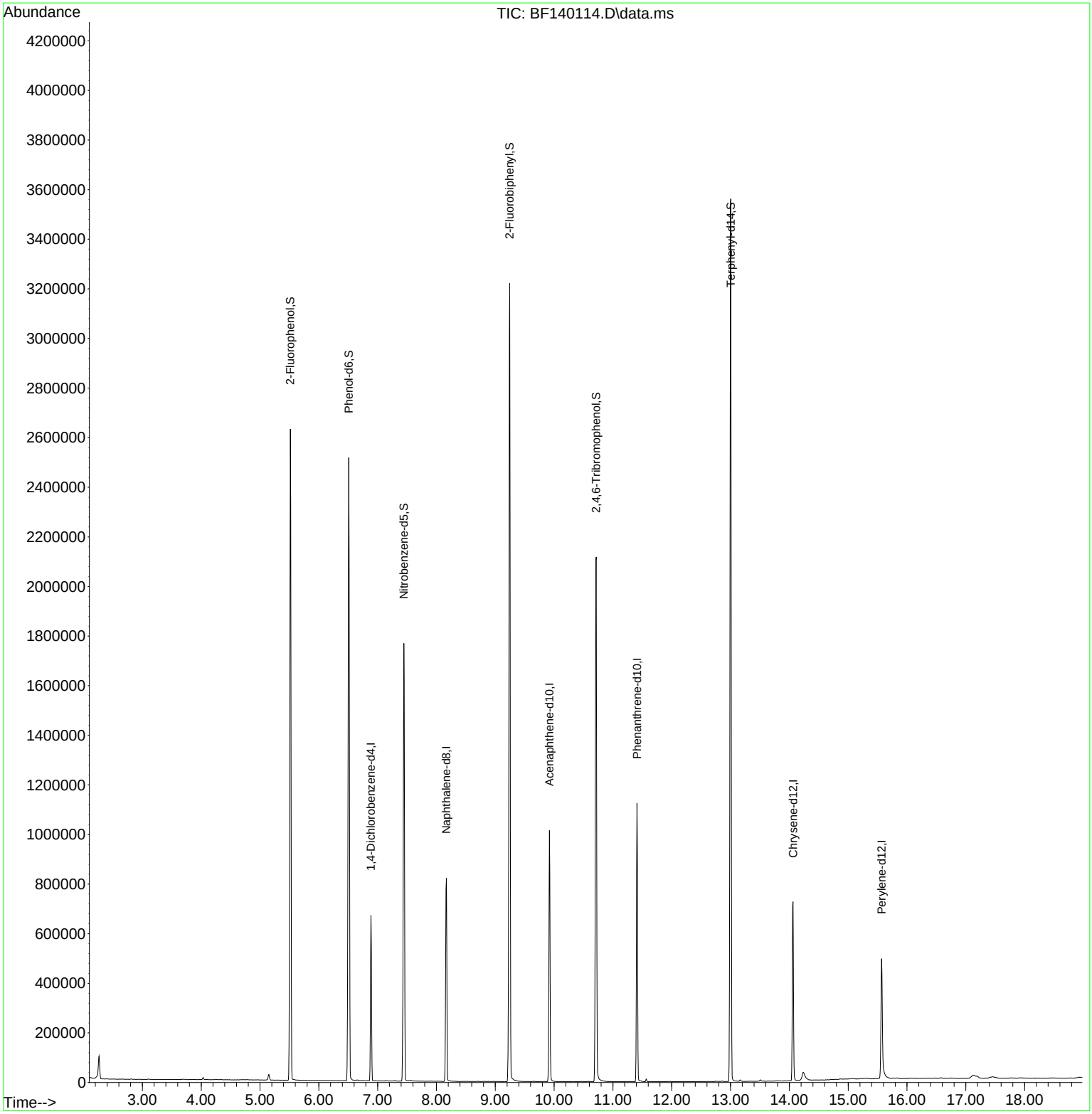
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.887 | 152 | 131951 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.169 | 136 | 529341 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.922 | 164 | 309747 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.410 | 188 | 594247 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.063 | 240 | 362694 | 20.000 | ng | 0.01 |
| 86) Perylene-d12 | 15.568 | 264 | 299972 | 20.000 | ng | 0.04 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.516 | 112 | 1002436 | 118.931 | ng | 0.02 |
| 7) Phenol-d6 | 6.510 | 99 | 1264139 | 115.800 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.445 | 82 | 861987 | 90.253 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.716 | 330 | 411968 | 142.191 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.245 | 172 | 1594438 | 85.073 | ng | 0.00 |
| 79) Terphenyl-d14 | 13.004 | 244 | 1955554 | 87.857 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

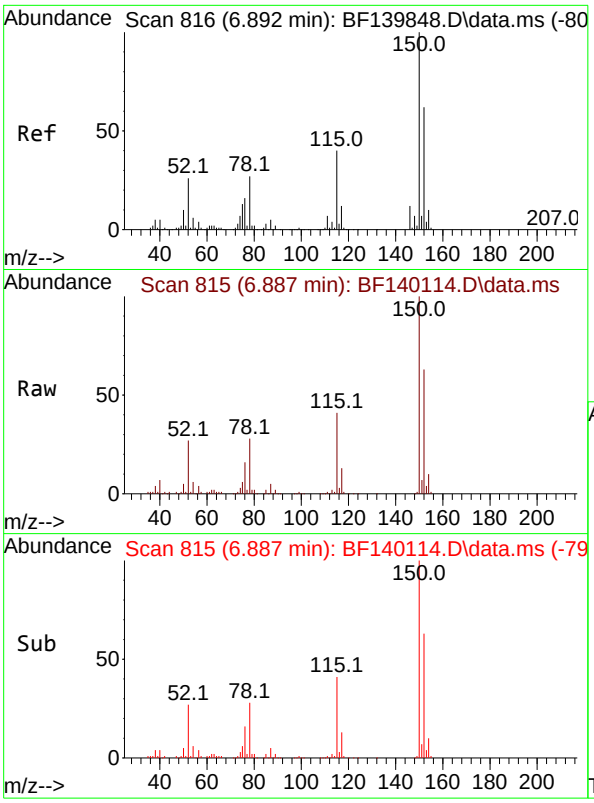
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140114.D
Acq On : 29 Oct 2024 16:26
Operator : RC/JU
Sample : PB164497BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB164497BL

Quant Time: Oct 29 17:02:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



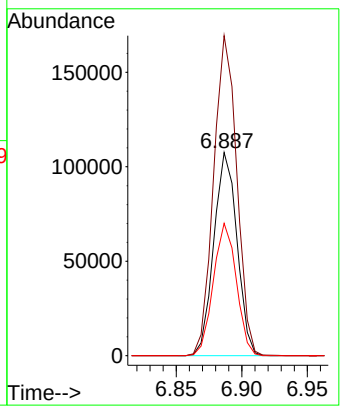


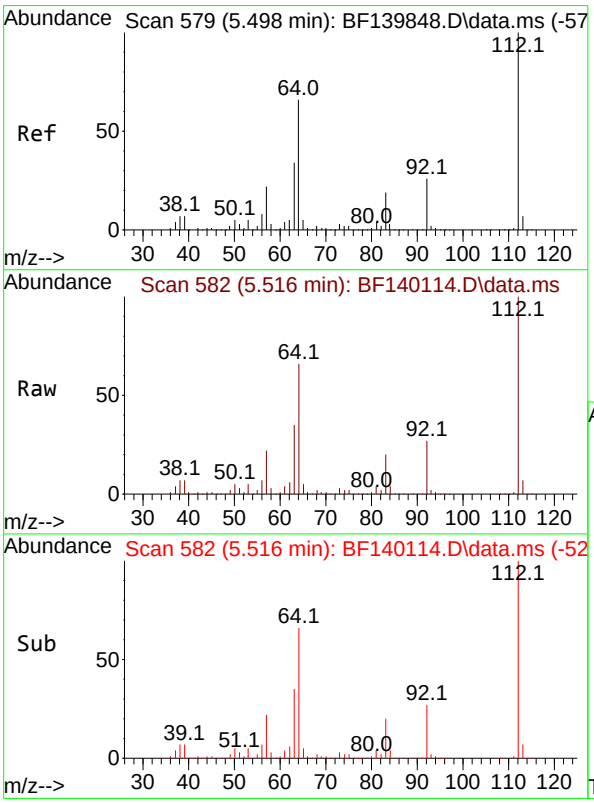

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF140114.D
Acq: 29 Oct 2024 16:26

**Instrument :**
BNA_F
**ClientSampleId :**
PB164497BL

Tgt Ion:152 Resp: 131951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.5 | 130.2 | 195.2 |
| 115 | 65.2 | 51.4 | 77.2 |

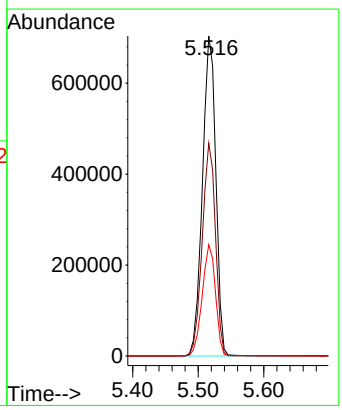


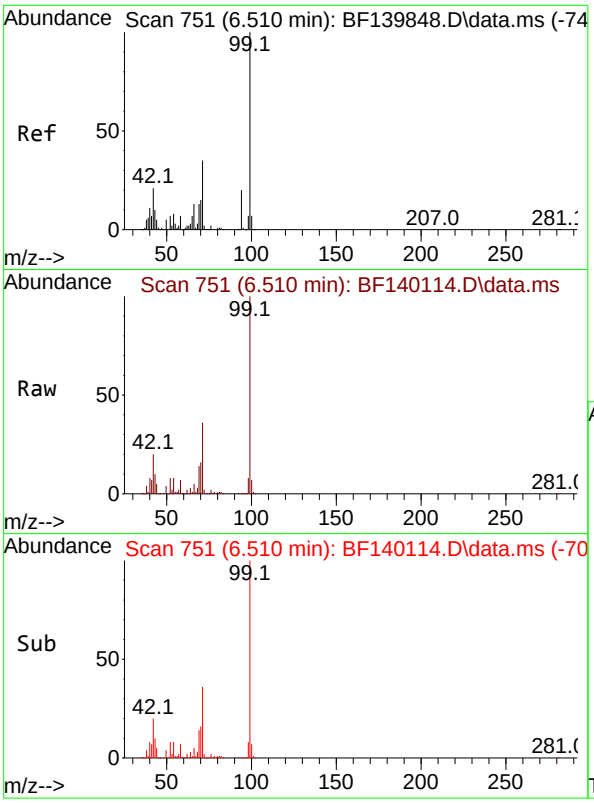




#5
2-Fluorophenol
Concen: 118.931 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF140114.D
Acq: 29 Oct 2024 16:26

Tgt Ion:112 Resp: 1002436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 66.5 | 53.0 | 79.6 |
| 63 | 34.7 | 27.0 | 40.4 |



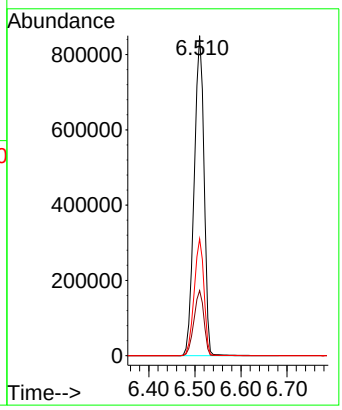


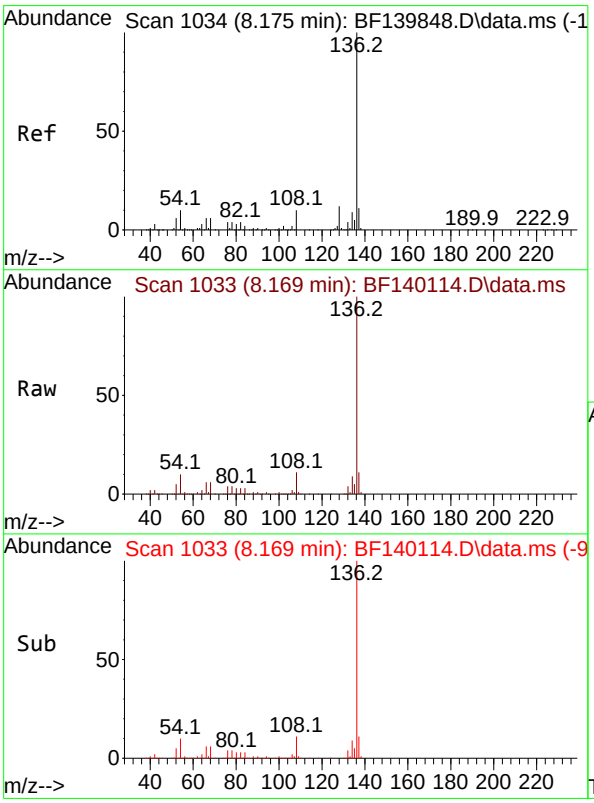

#7
Phenol-d6
Concen: 115.800 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140114.D
Acq: 29 Oct 2024 16:26

**Instrument :**
BNA_F
**ClientSampleId :**
PB164497BL

Tgt Ion: 99 Resp: 1264139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.4 | 16.7 | 25.1 |
| 71 | 36.5 | 27.7 | 41.5 |

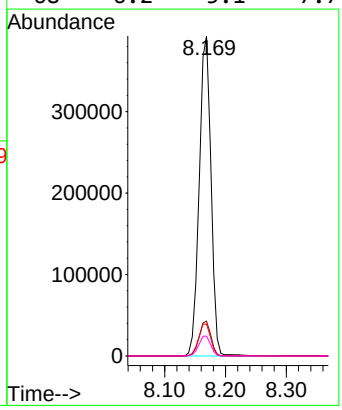


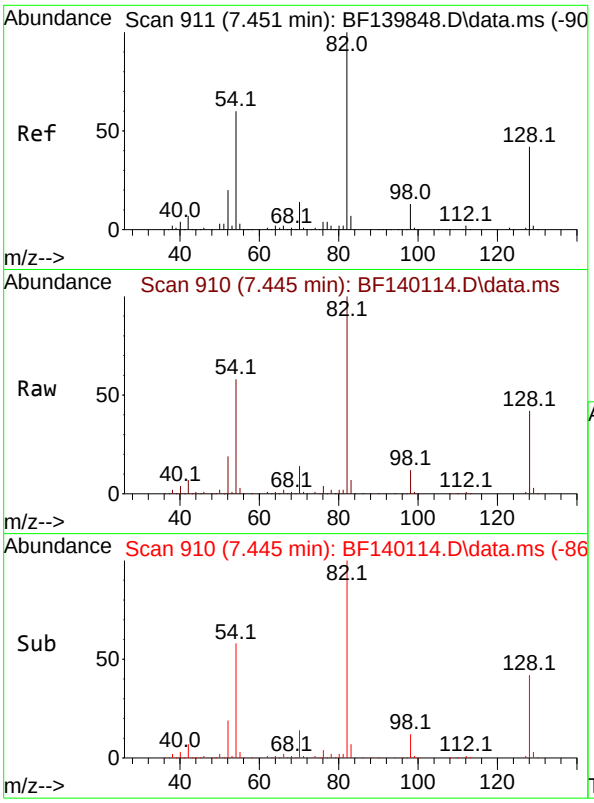




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140114.D
Acq: 29 Oct 2024 16:26

Tgt Ion:136 Resp: 529341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.9 | 8.6 | 12.8 |
| 54 | 10.0 | 8.4 | 12.6 |
| 68 | 6.2 | 5.1 | 7.7 |



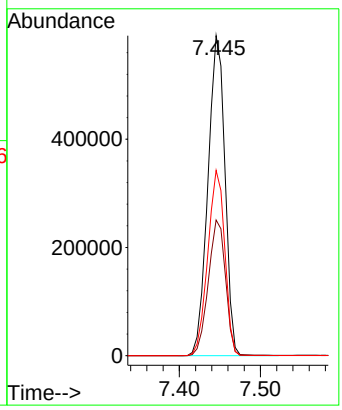


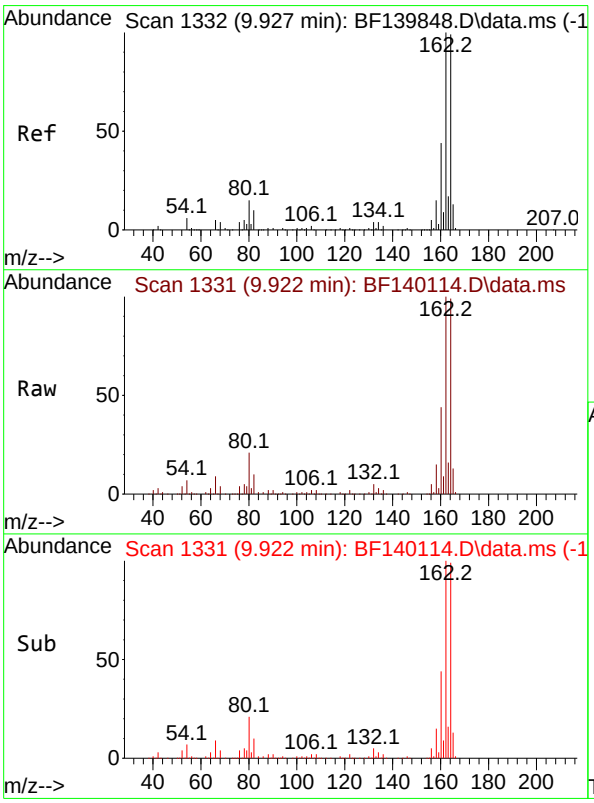

#23
Nitrobenzene-d5
Concen: 90.253 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140114.D
Acq: 29 Oct 2024 16:26

**Instrument :**
BNA_F
**ClientSampleId :**
PB164497BL

Tgt Ion: 82 Resp: 861987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.4 | 33.4 | 50.0 |
| 54 | 57.9 | 47.8 | 71.8 |

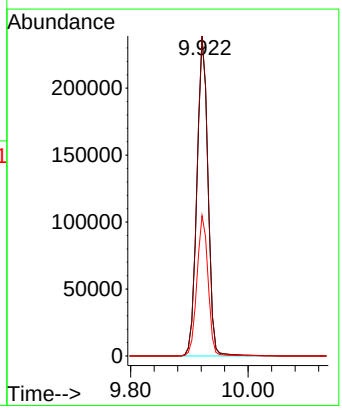


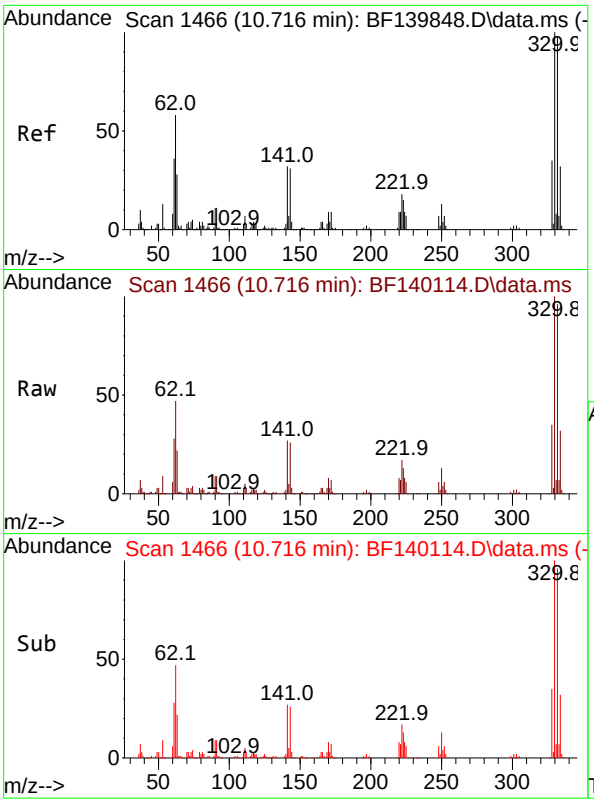




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140114.D
Acq: 29 Oct 2024 16:26

Tgt Ion:164 Resp: 309747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.8 | 81.0 | 121.4 |
| 160 | 44.2 | 35.4 | 53.0 |



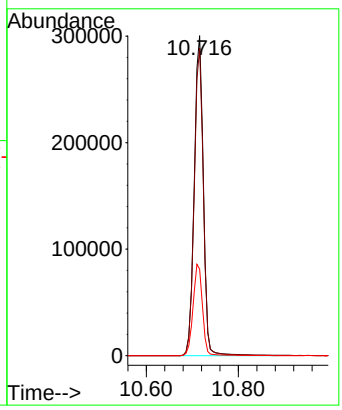


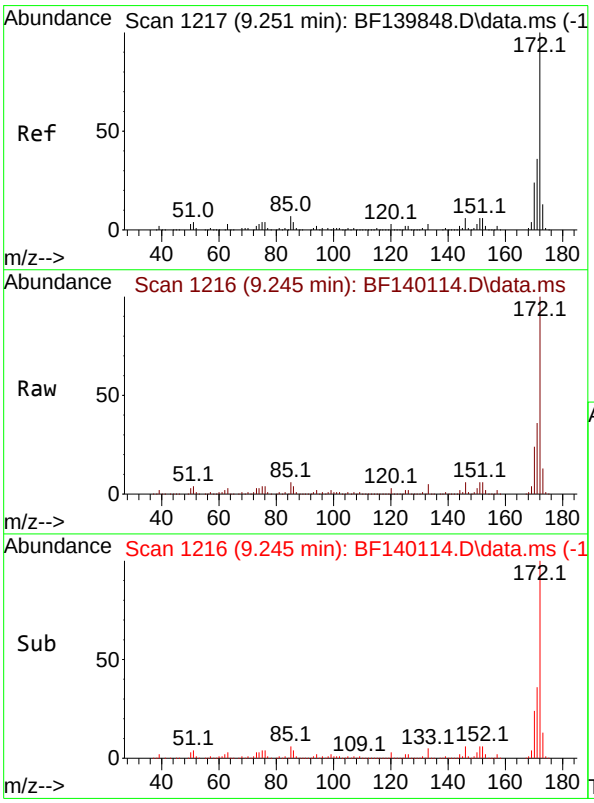

#42
2,4,6-Tribromophenol
Concen: 142.191 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140114.D
Acq: 29 Oct 2024 16:26

**Instrument :**
BNA_F
**ClientSampleId :**
PB164497BL

Tgt Ion:330 Resp: 411968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.0 | 78.1 | 117.1 |
| 141 | 29.5 | 26.6 | 39.8 |

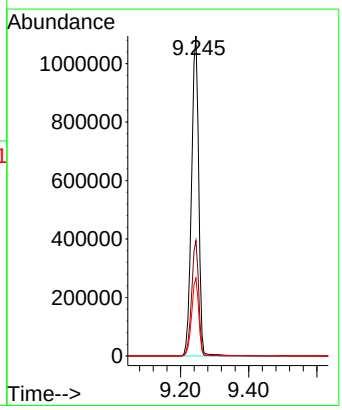


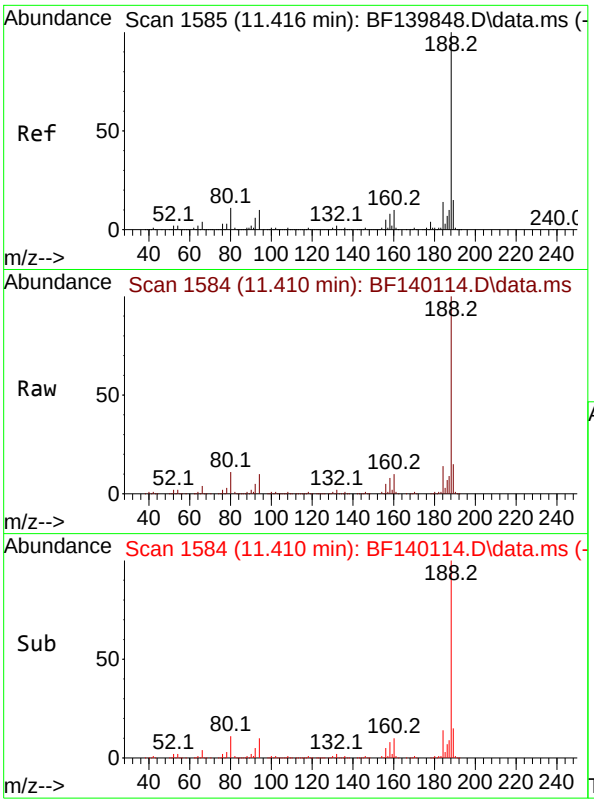




#45
2-Fluorobiphenyl
Concen: 85.073 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140114.D
Acq: 29 Oct 2024 16:26

Tgt Ion:172 Resp: 1594438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.1 | 28.6 | 43.0 |
| 170 | 24.3 | 19.1 | 28.7 |



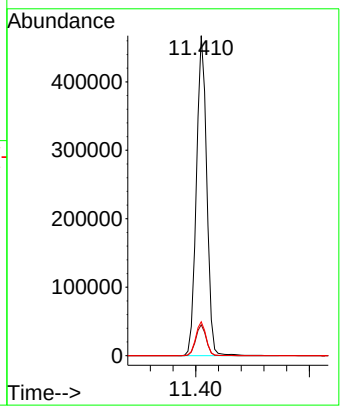


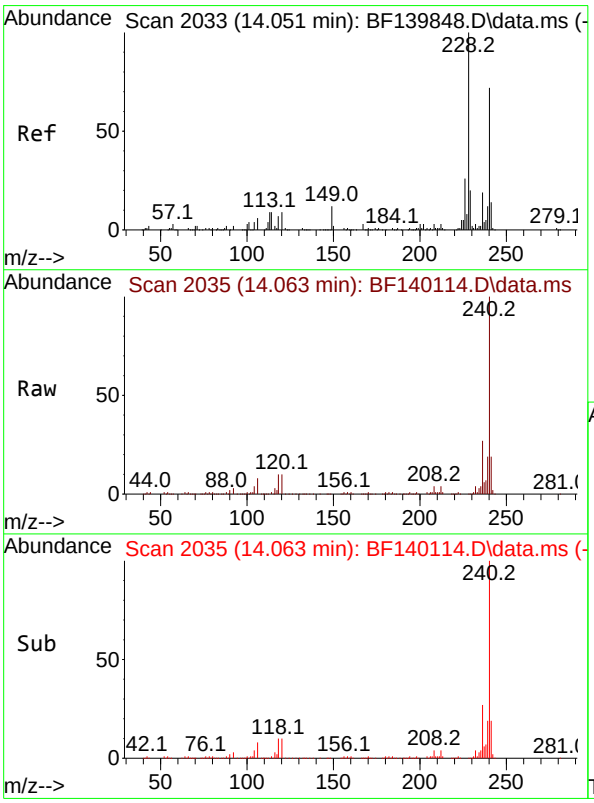

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140114.D
Acq: 29 Oct 2024 16:26

**Instrument :**
BNA_F
**ClientSampleId :**
PB164497BL

Tgt Ion:188 Resp: 594247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.7 | 7.9 | 11.9 |
| 80 | 10.6 | 9.0 | 13.4 |

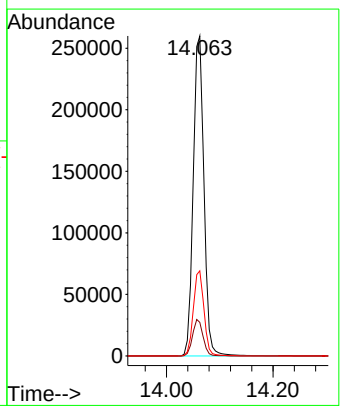


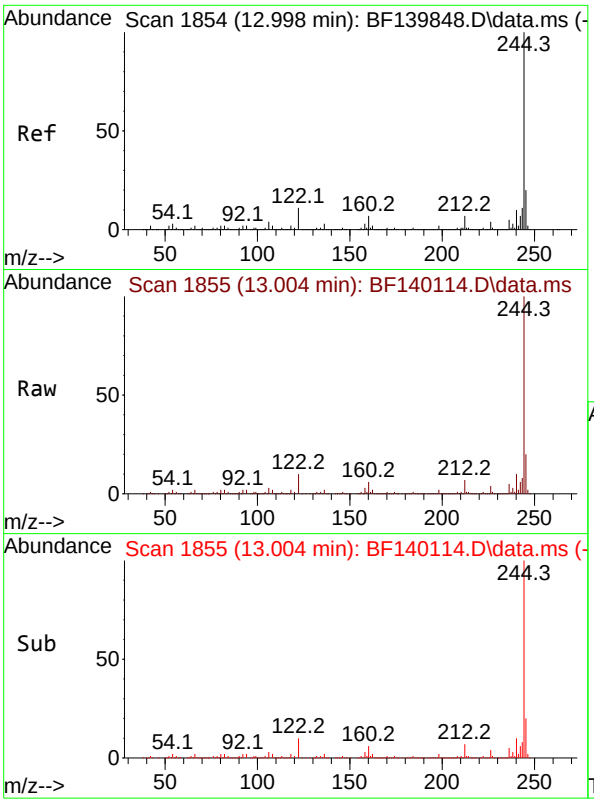




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2035
Delta R.T. 0.012 min
Lab File: BF140114.D
Acq: 29 Oct 2024 16:26

Tgt Ion:240 Resp: 362694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.5 | 9.4 | 14.2 |
| 236 | 26.6 | 20.9 | 31.3 |



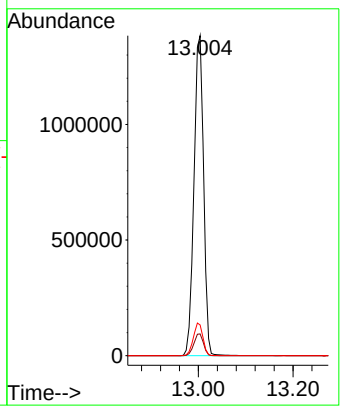


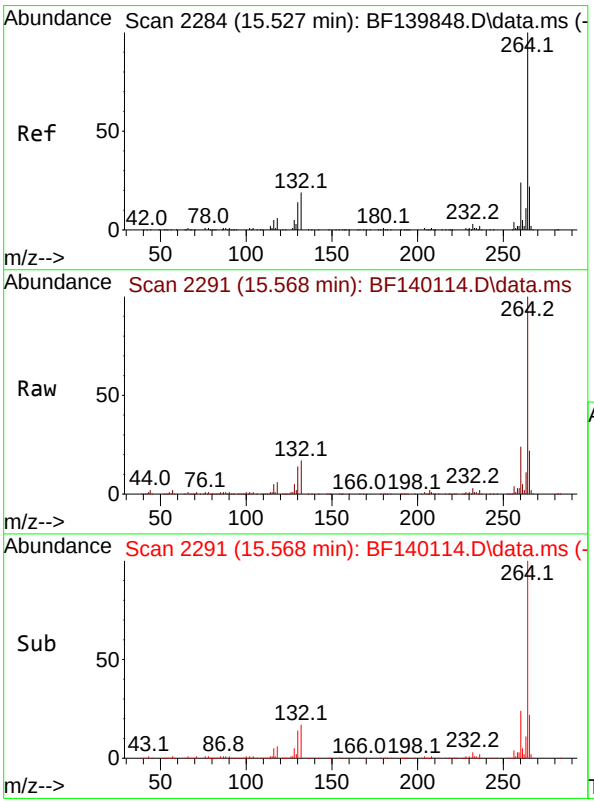

#79
Terphenyl-d14
Concen: 87.857 ng
RT: 13.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140114.D
Acq: 29 Oct 2024 16:26

**Instrument :**
BNA_F
**ClientSampleId :**
PB164497BL

Tgt Ion:244 Resp: 1955554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.8 | 5.7 | 8.5 |
| 122 | 9.6 | 8.6 | 13.0 |

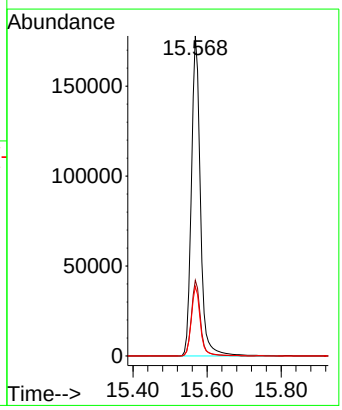



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.568 min Scan# 2291
Delta R.T. 0.041 min
Lab File: BF140114.D
Acq: 29 Oct 2024 16:26

Tgt Ion:264 Resp: 299972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.7 | 19.4 | 29.2 |
| 265 | 21.7 | 17.4 | 26.0 |



Raw Data: **BF140115.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tully Construction Co., Inc. | Date Collected: | |
| Project: | Pitkin Yard | Date Received: | |
| Client Sample ID: | PB164497BS | SDG No.: | P4595 |
| Lab Sample ID: | PB164497BS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-PAH |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140115.D | 1 | 10/29/24 09:15 | 10/29/24 16:52 | PB164497 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 91-20-3 | Naphthalene | 1.40 | | 0.083 | 0.17 | mg/Kg |
| 208-96-8 | Acenaphthylene | 1.50 | | 0.086 | 0.17 | mg/Kg |
| 83-32-9 | Acenaphthene | 1.70 | | 0.081 | 0.17 | mg/Kg |
| 86-73-7 | Fluorene | 1.50 | | 0.085 | 0.17 | mg/Kg |
| 85-01-8 | Phenanthrene | 1.40 | | 0.084 | 0.17 | mg/Kg |
| 120-12-7 | Anthracene | 1.50 | | 0.084 | 0.17 | mg/Kg |
| 206-44-0 | Fluoranthene | 1.40 | | 0.082 | 0.17 | mg/Kg |
| 129-00-0 | Pyrene | 1.50 | | 0.083 | 0.17 | mg/Kg |
| 56-55-3 | Benzo(a)anthracene | 1.50 | | 0.081 | 0.17 | mg/Kg |
| 218-01-9 | Chrysene | 1.60 | | 0.079 | 0.17 | mg/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1.60 | | 0.081 | 0.17 | mg/Kg |
| 207-08-9 | Benzo(k)fluoranthene | 1.50 | | 0.083 | 0.17 | mg/Kg |
| 50-32-8 | Benzo(a)pyrene | 1.70 | | 0.093 | 0.17 | mg/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.60 | | 0.078 | 0.17 | mg/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1.60 | | 0.081 | 0.17 | mg/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1.50 | | 0.080 | 0.17 | mg/Kg |
| **SURROGATES** | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 90.3 | | 18 - 107 | 90% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 87.2 | | 20 - 109 | 87% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 93.2 | | 10 - 105 | 93% | SPK: 100 |

| CAS Number | Parameter | Conc. | Qualifier |
|---|---|---|---|
| **INTERNAL STANDARDS** | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 134000 | 6.887 |
| 1146-65-2 | Naphthalene-d8 | 527000 | 8.169 |
| 15067-26-2 | Acenaphthene-d10 | 297000 | 9.928 |
| 1517-22-2 | Phenanthrene-d10 | 542000 | 11.416 |
| 1719-03-5 | Chrysene-d12 | 283000 | 14.068 |
| 1520-96-3 | Perylene-d12 | 280000 | 15.574 |

Raw Data: **BF140115.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tully Construction Co., Inc. | | | Date Collected: | |
| Project: | Pitkin Yard | | | Date Received: | |
| Client Sample ID: | PB164497BS | | | SDG No.: | P4595 |
| Lab Sample ID: | PB164497BS | | | Matrix: | SOIL |
| Analytical Method: | SW8270 | | | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 | Units: | g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOC-PAH |
| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3541 | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140115.D | 1 | 10/29/24 09:15 | 10/29/24 16:52 | PB164497 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140115.D
Acq On : 29 Oct 2024 16:52
Operator : RC/JU
Sample : PB164497BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 17:23:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB164497BS

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.887 | 152 | 134081 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.169 | 136 | 526800 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.928 | 164 | 296679 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.416 | 188 | 541600 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.068 | 240 | 283467 | 20.000 | ng | | 0.02 |
| 86) Perylene-d12 | 15.574 | 264 | 279985 | 20.000 | ng | | 0.05 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.522 | 112 | 1005816 | 117.436 | ng | | 0.02 |
| 7) Phenol-d6 | 6.516 | 99 | 1271446 | 114.619 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.451 | 82 | 858589 | 90.331 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.722 | 330 | 392531 | 141.450 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.245 | 172 | 1564960 | 87.179 | ng | | 0.00 |
| 79) Terphenyl-d14 | 13.004 | 244 | 1621604 | 93.216 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.781 | 88 | 134013 | 33.559 | ng | | 99 |
| 3) Pyridine | 3.540 | 79 | 361225 | 36.494 | ng | | 99 |
| 4) n-Nitrosodimethylamine | 3.487 | 42 | 210736 | 39.626 | ng | # | 98 |
| 6) Aniline | 6.551 | 93 | 380294 | 36.785 | ng | | 100 |
| 8) 2-Chlorophenol | 6.675 | 128 | 391765 | 44.743 | ng | | 99 |
| 9) Benzaldehyde | 6.440 | 77 | 73730 | 11.815 | ng | | 98 |
| 10) Phenol | 6.528 | 94 | 491410m | 42.970 | ng | | |
| 11) bis(2-Chloroethyl)ether | 6.622 | 93 | 377812 | 42.742 | ng | | 98 |
| 12) 1,3-Dichlorobenzene | 6.828 | 146 | 416641 | 41.453 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.904 | 146 | 423056 | 42.130 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.057 | 146 | 409193 | 43.662 | ng | | 99 |
| 15) Benzyl Alcohol | 7.028 | 79 | 371957 | 45.712 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 654720 | 43.439 | ng | | 98 |
| 17) 2-Methylphenol | 7.139 | 107 | 333229 | 44.632 | ng | | 97 |
| 18) Hexachloroethane | 7.404 | 117 | 157457 | 43.972 | ng | | 96 |
| 19) n-Nitroso-di-n-propyla... | 7.304 | 70 | 294832 | 43.823 | ng | | 97 |
| 20) 3+4-Methylphenols | 7.287 | 107 | 402960 | 42.196 | ng | # | 88 |
| 22) Acetophenone | 7.298 | 105 | 542722 | 42.061 | ng | | 99 |
| 24) Nitrobenzene | 7.469 | 77 | 442746 | 42.485 | ng | | 99 |
| 25) Isophorone | 7.710 | 82 | 810762 | 44.941 | ng | | 100 |
| 26) 2-Nitrophenol | 7.786 | 139 | 207301 | 52.729 | ng | | 99 |
| 27) 2,4-Dimethylphenol | 7.816 | 122 | 333531 | 50.878 | ng | | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.916 | 93 | 481171 | 44.022 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 8.022 | 162 | 334439 | 44.790 | ng | | 100 |
| 30) 1,2,4-Trichlorobenzene | 8.110 | 180 | 349185 | 42.263 | ng | | 100 |
| 31) Naphthalene | 8.192 | 128 | 1160966 | 42.731 | ng | | 100 |
| 32) Benzoic acid | 7.939 | 122 | 246956 | 43.192 | ng | | 99 |
| 33) 4-Chloroaniline | 8.234 | 127 | 151504 | 16.353 | ng | | 99 |
| 34) Hexachlorobutadiene | 8.310 | 225 | 228704 | 44.056 | ng | | 99 |
| 35) Caprolactam | 8.610 | 113 | 107348m | 45.214 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.716 | 107 | 375752 | 45.447 | ng | | 100 |
| 37) 2-Methylnaphthalene | 8.881 | 142 | 736849 | 44.283 | ng | | 100 |
| 38) 1-Methylnaphthalene | 8.981 | 142 | 688682 | 42.185 | ng | | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.051 | 216 | 349335 | 43.645 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 9.039 | 237 | 460165 | 165.231 | ng | | 99 |
| 43) 2,4,6-Trichlorophenol | 9.157 | 196 | 263599 | 46.517 | ng | | 100 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140115.D
Acq On : 29 Oct 2024 16:52
Operator : RC/JU
Sample : PB164497BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 17:23:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB164497BS

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.204 | 196 | 262655 | 44.925 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.351 | 154 | 895803 | 43.374 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.375 | 162 | 711275 | 42.759 | ng | | 100 |
| 48) 2-Nitroaniline | 9.469 | 65 | 255976 | 50.315 | ng | | 96 |
| 49) Acenaphthylene | 9.792 | 152 | 1114577 | 46.347 | ng | | 99 |
| 50) Dimethylphthalate | 9.651 | 163 | 850212 | 46.008 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.710 | 165 | 187823 | 46.942 | ng | | 99 |
| 52) Acenaphthene | 9.963 | 154 | 791274 | 50.864 | ng | | 99 |
| 53) 3-Nitroaniline | 9.875 | 138 | 108242 | 26.233 | ng | | 97 |
| 54) 2,4-Dinitrophenol | 9.986 | 184 | 214865 | 125.230 | ng | # | 1 |
| 55) Dibenzofuran | 10.133 | 168 | 988065 | 44.268 | ng | | 99 |
| 56) 4-Nitrophenol | 10.039 | 139 | 299741 | 94.421 | ng | | 98 |
| 57) 2,4-Dinitrotoluene | 10.116 | 165 | 256926 | 52.217 | ng | | 99 |
| 58) Fluorene | 10.480 | 166 | 751304 | 44.193 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.251 | 232 | 216857 | 47.315 | ng | | 99 |
| 60) Diethylphthalate | 10.351 | 149 | 843710 | 46.500 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204 | 385321 | 44.882 | ng | | 99 |
| 62) 4-Nitroaniline | 10.498 | 138 | 185310 | 47.552 | ng | | 97 |
| 63) Azobenzene | 10.627 | 77 | 849003 | 44.137 | ng | | 99 |
| 65) 4,6-Dinitro-2-methylph... | 10.522 | 198 | 145407 | 65.820 | ng | | 96 |
| 66) n-Nitrosodiphenylamine | 10.586 | 169 | 703269 | 43.385 | ng | | 100 |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248 | 248194 | 44.483 | ng | | 99 |
| 68) Hexachlorobenzene | 11.027 | 284 | 278904 | 44.446 | ng | | 96 |
| 69) Atrazine | 11.116 | 200 | 239045 | 54.439 | ng | | 99 |
| 70) Pentachlorophenol | 11.222 | 266 | 330845 | 86.873 | ng | | 99 |
| 71) Phenanthrene | 11.445 | 178 | 1107026 | 43.272 | ng | | 100 |
| 72) Anthracene | 11.492 | 178 | 1137199 | 45.559 | ng | | 100 |
| 73) Carbazole | 11.645 | 167 | 970394 | 41.802 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.974 | 149 | 1270038 | 47.354 | ng | | 99 |
| 75) Fluoranthene | 12.627 | 202 | 1110887 | 42.954 | ng | | 99 |
| 77) Benzidine | 12.745 | 184 | 295516 | 63.400 | ng | | 99 |
| 78) Pyrene | 12.863 | 202 | 1098847 | 44.286 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.474 | 149 | 413946 | 55.646 | ng | | 99 |
| 81) Benzo(a)anthracene | 14.057 | 228 | 839948 | 45.519 | ng | | 100 |
| 82) 3,3'-Dichlorobenzidine | 14.015 | 252 | 166286 | 30.907 | ng | | 99 |
| 83) Chrysene | 14.098 | 228 | 795671 | 47.028 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.045 | 149 | 519162 | 62.204 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.686 | 149 | 819762 | 54.001 | ng | | 97 |
| 87) Indeno(1,2,3-cd)pyrene | 17.092 | 276 | 884533 | 49.108 | ng | | 98 |
| 88) Benzo(b)fluoranthene | 15.139 | 252 | 801628 | 47.001 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.168 | 252 | 678134 | 46.103 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.515 | 252 | 707825 | 50.437 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 17.109 | 278 | 718829 | 47.839 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 17.545 | 276 | 669263 | 44.590 | ng | | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

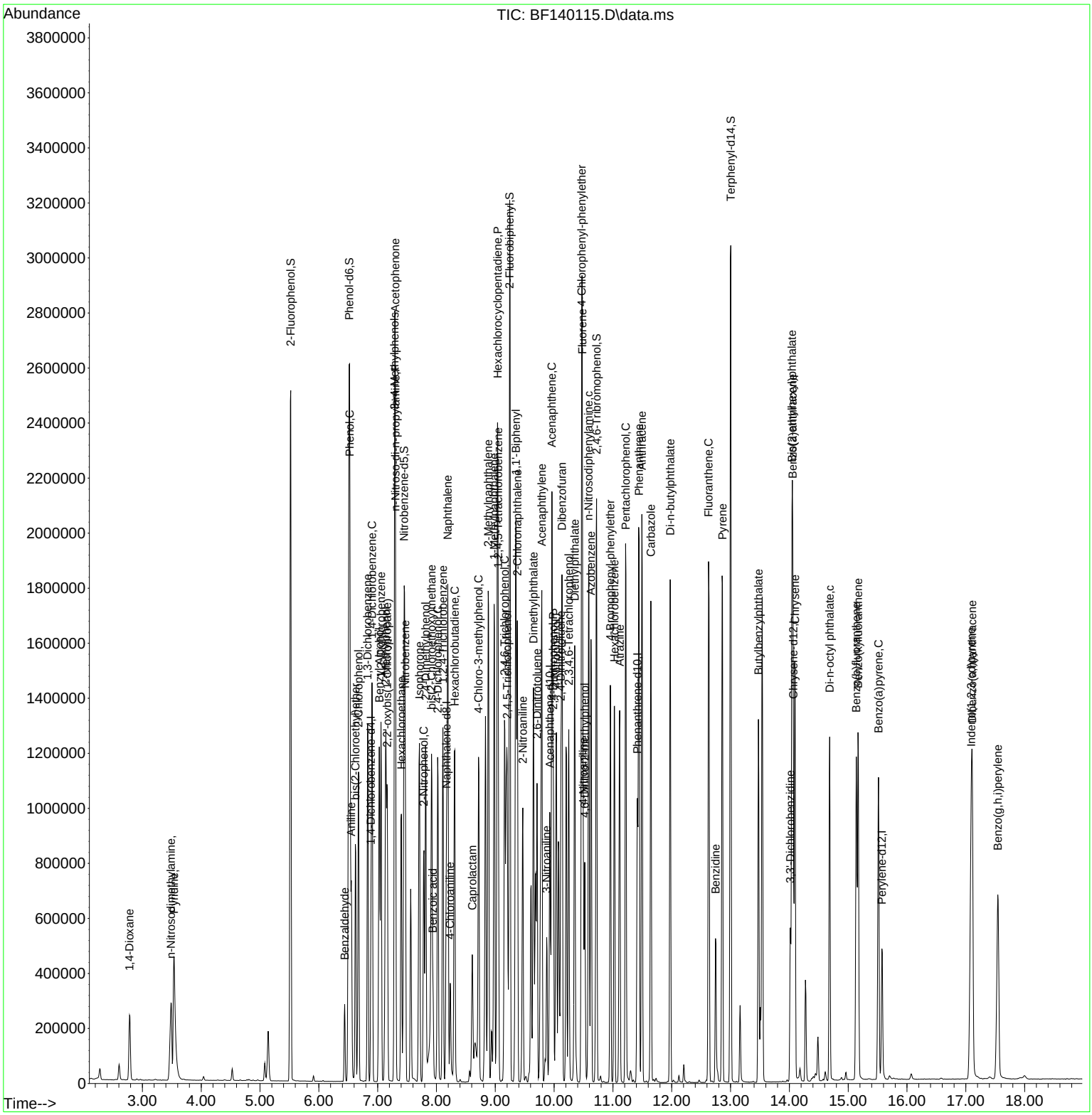
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140115.D
Acq On : 29 Oct 2024 16:52
Operator : RC/JU
Sample : PB164497BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 17:23:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB164497BS

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tully Construction Co., Inc. | Date Collected: | 10/26/24 |
| Project: | Pitkin Yard | Date Received: | 10/28/24 |
| Client Sample ID: | BP-F17MS | SDG No.: | P4595 |
| Lab Sample ID: | P4594-05MS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 89 |
| Sample Wt/Vol: | 50.07 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-PAH |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140117.D | 1 | 10/29/24 09:15 | 10/29/24 17:45 | PB164497 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 91-20-3 | Naphthalene | 0.99 | | 0.056 | 0.11 | mg/Kg |
| 208-96-8 | Acenaphthylene | 1.10 | | 0.058 | 0.11 | mg/Kg |
| 83-32-9 | Acenaphthene | 1.20 | | 0.055 | 0.11 | mg/Kg |
| 86-73-7 | Fluorene | 1.00 | | 0.058 | 0.11 | mg/Kg |
| 85-01-8 | Phenanthrene | 1.00 | | 0.057 | 0.11 | mg/Kg |
| 120-12-7 | Anthracene | 1.10 | | 0.057 | 0.11 | mg/Kg |
| 206-44-0 | Fluoranthene | 0.96 | | 0.055 | 0.11 | mg/Kg |
| 129-00-0 | Pyrene | 1.00 | | 0.056 | 0.11 | mg/Kg |
| 56-55-3 | Benzo(a)anthracene | 1.10 | | 0.054 | 0.11 | mg/Kg |
| 218-01-9 | Chrysene | 1.10 | | 0.054 | 0.11 | mg/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 0.98 | | 0.055 | 0.11 | mg/Kg |
| 207-08-9 | Benzo(k)fluoranthene | 1.10 | | 0.056 | 0.11 | mg/Kg |
| 50-32-8 | Benzo(a)pyrene | 1.10 | | 0.063 | 0.11 | mg/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.10 | | 0.053 | 0.11 | mg/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1.10 | | 0.055 | 0.11 | mg/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1.00 | | 0.054 | 0.11 | mg/Kg |
| **SURROGATES** | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 68.3 | | 18 - 107 | 68% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 65.7 | | 20 - 109 | 66% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 68.6 | | 10 - 105 | 69% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 132000 | 6.886 | | | |
| 1146-65-2 | Naphthalene-d8 | 527000 | 8.169 | | | |
| 15067-26-2 | Acenaphthene-d10 | 297000 | 9.927 | | | |
| 1517-22-2 | Phenanthrene-d10 | 510000 | 11.416 | | | |
| 1719-03-5 | Chrysene-d12 | 257000 | 14.063 | | | |
| 1520-96-3 | Perylene-d12 | 280000 | 15.568 | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tully Construction Co., Inc. | | | Date Collected: | 10/26/24 |
| Project: | Pitkin Yard | | | Date Received: | 10/28/24 |
| Client Sample ID: | BP-F17MS | | | SDG No.: | P4595 |
| Lab Sample ID: | P4594-05MS | | | Matrix: | SOIL |
| Analytical Method: | SW8270 | | | % Solid: | 89 |
| Sample Wt/Vol: | 50.07 | Units: | g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOC-PAH |
| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3541 | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140117.D | 1 | 10/29/24 09:15 | 10/29/24 17:45 | PB164497 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140117.D
Acq On : 29 Oct 2024 17:45
Operator : RC/JU
Sample : P4594-05MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 30 01:02:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
BP-F17MS

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.886 | 152 | 132457 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.169 | 136 | 527177 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.927 | 164 | 297266 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.416 | 188 | 510240 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.063 | 240 | 257285 | 20.000 | ng | | 0.01 |
| 86) Perylene-d12 | 15.568 | 264 | 279776 | 20.000 | ng | | 0.04 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.516 | 112 | 763838 | 90.277 | ng | | 0.02 |
| 7) Phenol-d6 | 6.516 | 99 | 1011079 | 92.265 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.451 | 82 | 650115 | 68.348 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.722 | 330 | 294528 | 105.925 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.245 | 172 | 1181553 | 65.690 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.998 | 244 | 1082872 | 68.582 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.769 | 88 | 149733 | 37.956 | ng | | 98 |
| 3) Pyridine | 3.522 | 79 | 391488 | 40.036 | ng | | 99 |
| 4) n-Nitrosodimethylamine | 3.481 | 42 | 221895 | 42.236 | ng | | 100 |
| 6) Aniline | 6.551 | 93 | 383280 | 37.528 | ng | | 100 |
| 8) 2-Chlorophenol | 6.675 | 128 | 408640 | 47.243 | ng | | 99 |
| 9) Benzaldehyde | 6.439 | 77 | 75337 | 12.221 | ng | | 98 |
| 10) Phenol | 6.528 | 94 | 527220m | 46.666 | ng | | |
| 11) bis(2-Chloroethyl)ether | 6.622 | 93 | 396755 | 45.436 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 6.834 | 146 | 435490 | 43.859 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.904 | 146 | 437477 | 44.101 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.057 | 146 | 423641 | 45.758 | ng | | 99 |
| 15) Benzyl Alcohol | 7.028 | 79 | 392504 | 48.828 | ng | | 98 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 680611 | 45.710 | ng | | 98 |
| 17) 2-Methylphenol | 7.139 | 107 | 347073 | 47.057 | ng | | 98 |
| 18) Hexachloroethane | 7.404 | 117 | 162922 | 46.056 | ng | | 96 |
| 19) n-Nitroso-di-n-propyla... | 7.298 | 70 | 307733 | 46.302 | ng | | 99 |
| 20) 3+4-Methylphenols | 7.286 | 107 | 419717 | 44.490 | ng | # | 89 |
| 22) Acetophenone | 7.298 | 105 | 564834 | 43.744 | ng | | 99 |
| 24) Nitrobenzene | 7.469 | 77 | 464006 | 44.493 | ng | | 100 |
| 25) Isophorone | 7.710 | 82 | 853149 | 47.257 | ng | | 100 |
| 26) 2-Nitrophenol | 7.786 | 139 | 217122 | 55.188 | ng | | 98 |
| 27) 2,4-Dimethylphenol | 7.816 | 122 | 344243 | 52.475 | ng | | 97 |
| 28) bis(2-Chloroethoxy)met... | 7.916 | 93 | 502223 | 45.916 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 8.022 | 162 | 348839 | 46.685 | ng | | 100 |
| 30) 1,2,4-Trichlorobenzene | 8.110 | 180 | 360417 | 43.591 | ng | | 99 |
| 31) Naphthalene | 8.192 | 128 | 1199880 | 44.132 | ng | | 100 |
| 32) Benzoic acid | 7.939 | 122 | 263535 | 46.059 | ng | | 99 |
| 33) 4-Chloroaniline | 8.233 | 127 | 151753 | 16.369 | ng | | 99 |
| 34) Hexachlorobutadiene | 8.310 | 225 | 234926 | 45.222 | ng | | 99 |
| 35) Caprolactam | 8.616 | 113 | 112189m | 47.219 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.722 | 107 | 392868 | 47.483 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.886 | 142 | 772169 | 46.373 | ng | | 100 |
| 38) 1-Methylnaphthalene | 8.980 | 142 | 712861 | 43.635 | ng | | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.051 | 216 | 362976 | 45.260 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 9.039 | 237 | 427621 | 153.242 | ng | | 99 |
| 43) 2,4,6-Trichlorophenol | 9.163 | 196 | 269891 | 47.533 | ng | | 100 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140117.D
Acq On : 29 Oct 2024 17:45
Operator : RC/JU
Sample : P4594-05MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 30 01:02:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
BP-F17MS

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.204 | 196 | 275886 | 47.095 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.351 | 154 | 931325 | 45.004 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.375 | 162 | 739307 | 44.357 | ng | | 100 |
| 48) 2-Nitroaniline | 9.469 | 65 | 262462 | 51.488 | ng | | 95 |
| 49) Acenaphthylene | 9.792 | 152 | 1160830 | 48.175 | ng | | 99 |
| 50) Dimethylphthalate | 9.651 | 163 | 893048 | 48.231 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.710 | 165 | 197589 | 49.285 | ng | | 99 |
| 52) Acenaphthene | 9.963 | 154 | 820265 | 52.623 | ng | | 99 |
| 53) 3-Nitroaniline | 9.880 | 138 | 113986 | 27.570 | ng | | 97 |
| 54) 2,4-Dinitrophenol | 9.986 | 184 | 223505 | 129.760 | ng | # | 1 |
| 55) Dibenzofuran | 10.133 | 168 | 1016974 | 45.473 | ng | | 99 |
| 56) 4-Nitrophenol | 10.039 | 139 | 304483 | 95.726 | ng | | 96 |
| 57) 2,4-Dinitrotoluene | 10.116 | 165 | 267104 | 54.178 | ng | | 100 |
| 58) Fluorene | 10.480 | 166 | 776440 | 45.582 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.251 | 232 | 227213 | 49.477 | ng | | 99 |
| 60) Diethylphthalate | 10.351 | 149 | 864712 | 47.564 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204 | 396579 | 46.102 | ng | | 99 |
| 62) 4-Nitroaniline | 10.498 | 138 | 191421 | 49.023 | ng | | 97 |
| 63) Azobenzene | 10.627 | 77 | 985665 | 51.140 | ng | | 98 |
| 65) 4,6-Dinitro-2-methylph... | 10.522 | 198 | 149607 | 71.883 | ng | | 96 |
| 66) n-Nitrosodiphenylamine | 10.586 | 169 | 720288 | 47.166 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248 | 253675 | 48.260 | ng | | 99 |
| 68) Hexachlorobenzene | 11.027 | 284 | 275732 | 46.642 | ng | | 97 |
| 69) Atrazine | 11.116 | 200 | 235880 | 57.020 | ng | | 98 |
| 70) Pentachlorophenol | 11.216 | 266 | 333310 | 92.899 | ng | | 100 |
| 71) Phenanthrene | 11.439 | 178 | 1116509 | 46.325 | ng | | 99 |
| 72) Anthracene | 11.492 | 178 | 1127394 | 47.942 | ng | | 100 |
| 73) Carbazole | 11.645 | 167 | 954916 | 43.663 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.974 | 149 | 1242558 | 49.177 | ng | | 100 |
| 75) Fluoranthene | 12.627 | 202 | 1037271 | 42.573 | ng | | 99 |
| 77) Benzidine | 12.745 | 184 | 306598 | 72.471 | ng | | 98 |
| 78) Pyrene | 12.857 | 202 | 1041912 | 46.264 | ng | | 100 |
| 80) Butylbenzylphthalate | 13.474 | 149 | 397058 | 58.807 | ng | | 99 |
| 81) Benzo(a)anthracene | 14.051 | 228 | 809554 | 48.336 | ng | | 100 |
| 82) 3,3'-Dichlorobenzidine | 14.015 | 252 | 170792 | 34.975 | ng | | 99 |
| 83) Chrysene | 14.092 | 228 | 734483 | 47.829 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.039 | 149 | 495456 | 65.405 | ng | | 100 |
| 85) Di-n-octyl phthalate | 14.674 | 149 | 810976 | 58.858 | ng | | 98 |
| 87) Indeno(1,2,3-cd)pyrene | 17.080 | 276 | 894510 | 49.699 | ng | | 98 |
| 88) Benzo(b)fluoranthene | 15.133 | 252 | 742819 | 43.586 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.162 | 252 | 728170 | 49.542 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.509 | 252 | 711907 | 50.766 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 17.098 | 278 | 727325 | 48.440 | ng | | 99 |
| 92) Benzo(g,h,i)perylene | 17.539 | 276 | 672174 | 44.818 | ng | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

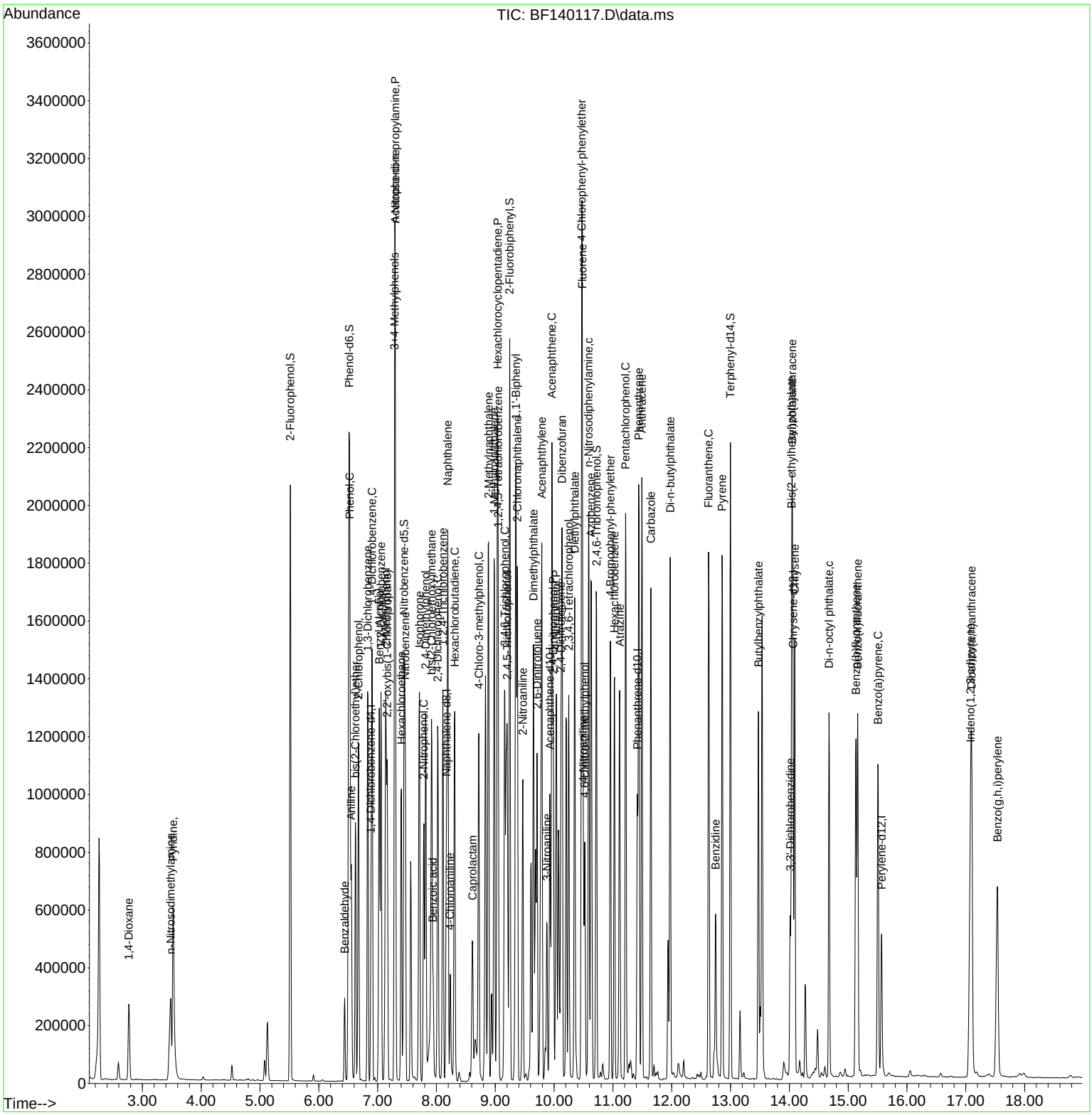
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140117.D
Acq On : 29 Oct 2024 17:45
Operator : RC/JU
Sample : P4594-05MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 30 01:02:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
BP-F17MS

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tully Construction Co., Inc. | Date Collected: | 10/26/24 |
| Project: | Pitkin Yard | Date Received: | 10/28/24 |
| Client Sample ID: | BP-F17MSD | SDG No.: | P4595 |
| Lab Sample ID: | P4594-05MSD | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 89 |
| Sample Wt/Vol: | 50.09 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-PAH |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140118.D | 1 | 10/29/24 09:15 | 10/29/24 18:11 | PB164497 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 91-20-3 | Naphthalene | 0.92 | | 0.056 | 0.11 | mg/Kg |
| 208-96-8 | Acenaphthylene | 1.00 | | 0.058 | 0.11 | mg/Kg |
| 83-32-9 | Acenaphthene | 1.10 | | 0.055 | 0.11 | mg/Kg |
| 86-73-7 | Fluorene | 0.96 | | 0.058 | 0.11 | mg/Kg |
| 85-01-8 | Phenanthrene | 0.96 | | 0.057 | 0.11 | mg/Kg |
| 120-12-7 | Anthracene | 1.00 | | 0.057 | 0.11 | mg/Kg |
| 206-44-0 | Fluoranthene | 0.88 | | 0.055 | 0.11 | mg/Kg |
| 129-00-0 | Pyrene | 0.94 | | 0.056 | 0.11 | mg/Kg |
| 56-55-3 | Benzo(a)anthracene | 0.99 | | 0.054 | 0.11 | mg/Kg |
| 218-01-9 | Chrysene | 0.99 | | 0.054 | 0.11 | mg/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 0.96 | | 0.055 | 0.11 | mg/Kg |
| 207-08-9 | Benzo(k)fluoranthene | 0.97 | | 0.056 | 0.11 | mg/Kg |
| 50-32-8 | Benzo(a)pyrene | 1.10 | | 0.063 | 0.11 | mg/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.00 | | 0.053 | 0.11 | mg/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.99 | | 0.055 | 0.11 | mg/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 0.90 | | 0.054 | 0.11 | mg/Kg |
| **SURROGATES** | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 62.8 | | 18 - 107 | 63% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 61.2 | | 20 - 109 | 61% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 61.7 | | 10 - 105 | 62% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 136000 | 6.886 | | | |
| 1146-65-2 | Naphthalene-d8 | 535000 | 8.169 | | | |
| 15067-26-2 | Acenaphthene-d10 | 298000 | 9.927 | | | |
| 1517-22-2 | Phenanthrene-d10 | 515000 | 11.416 | | | |
| 1719-03-5 | Chrysene-d12 | 260000 | 14.062 | | | |
| 1520-96-3 | Perylene-d12 | 284000 | 15.574 | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tully Construction Co., Inc. | | | Date Collected: | 10/26/24 |
| Project: | Pitkin Yard | | | Date Received: | 10/28/24 |
| Client Sample ID: | BP-F17MSD | | | SDG No.: | P4595 |
| Lab Sample ID: | P4594-05MSD | | | Matrix: | SOIL |
| Analytical Method: | SW8270 | | | % Solid: | 89 |
| Sample Wt/Vol: | 50.09 | Units: | g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOC-PAH |
| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3541 | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140118.D | 1 | 10/29/24 09:15 | 10/29/24 18:11 | PB164497 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **BF140118.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140118.D
Acq On : 29 Oct 2024 18:11
Operator : RC/JU
Sample : P4594-05MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 30 01:02:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
BP-F17MSD

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.886 | 152 | 136471 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.169 | 136 | 534539 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.927 | 164 | 298449 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.416 | 188 | 515265 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.062 | 240 | 259907 | 20.000 | ng | | 0.01 |
| 86) Perylene-d12 | 15.574 | 264 | 284229 | 20.000 | ng | | 0.05 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.516 | 112 | 715216 | 82.044 | ng | | 0.02 |
| 7) Phenol-d6 | 6.516 | 99 | 945395 | 83.733 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.451 | 82 | 606029 | 62.836 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.721 | 330 | 274309 | 98.262 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.245 | 172 | 1105890 | 61.240 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.998 | 244 | 984383 | 61.716 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.769 | 88 | 140476 | 34.562 | ng | | 99 |
| 3) Pyridine | 3.522 | 79 | 364607 | 36.190 | ng | | 99 |
| 4) n-Nitrosodimethylamine | 3.481 | 42 | 207548 | 38.344 | ng | # | 98 |
| 6) Aniline | 6.551 | 93 | 371389 | 35.295 | ng | | 100 |
| 8) 2-Chlorophenol | 6.675 | 128 | 379130 | 42.542 | ng | | 99 |
| 9) Benzaldehyde | 6.439 | 77 | 70817 | 11.150 | ng | | 99 |
| 10) Phenol | 6.528 | 94 | 495306m | 42.552 | ng | | |
| 11) bis(2-Chloroethyl)ether | 6.622 | 93 | 377671 | 41.978 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 6.833 | 146 | 408583 | 39.939 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.910 | 146 | 413765 | 40.484 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.057 | 146 | 397942 | 41.718 | ng | | 99 |
| 15) Benzyl Alcohol | 7.028 | 79 | 364956 | 44.066 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 643431 | 41.942 | ng | | 98 |
| 17) 2-Methylphenol | 7.139 | 107 | 323535 | 42.575 | ng | | 98 |
| 18) Hexachloroethane | 7.404 | 117 | 151888 | 41.674 | ng | | 96 |
| 19) n-Nitroso-di-n-propyla... | 7.298 | 70 | 288166 | 42.082 | ng | | 98 |
| 20) 3+4-Methylphenols | 7.286 | 107 | 398180 | 40.965 | ng | # | 89 |
| 22) Acetophenone | 7.298 | 105 | 533665 | 40.761 | ng | | 99 |
| 24) Nitrobenzene | 7.469 | 77 | 436717 | 41.300 | ng | | 100 |
| 25) Isophorone | 7.710 | 82 | 797960 | 43.591 | ng | | 100 |
| 26) 2-Nitrophenol | 7.786 | 139 | 202951 | 50.875 | ng | | 99 |
| 27) 2,4-Dimethylphenol | 7.816 | 122 | 321852 | 48.386 | ng | | 98 |
| 28) bis(2-Chloroethoxy)met... | 7.916 | 93 | 470244 | 42.400 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 8.028 | 162 | 325837 | 43.006 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 8.110 | 180 | 336882 | 40.184 | ng | | 99 |
| 31) Naphthalene | 8.192 | 128 | 1133323 | 41.110 | ng | | 99 |
| 32) Benzoic acid | 7.939 | 122 | 242108 | 41.731 | ng | | 99 |
| 33) 4-Chloroaniline | 8.233 | 127 | 148658 | 15.814 | ng | | 99 |
| 34) Hexachlorobutadiene | 8.310 | 225 | 223573 | 42.444 | ng | | 99 |
| 35) Caprolactam | 8.610 | 113 | 106390m | 44.162 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.716 | 107 | 365252 | 43.537 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.880 | 142 | 713182 | 42.240 | ng | | 100 |
| 38) 1-Methylnaphthalene | 8.980 | 142 | 667061 | 40.269 | ng | | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.051 | 216 | 341416 | 42.403 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 9.039 | 237 | 389354 | 138.976 | ng | | 100 |
| 43) 2,4,6-Trichlorophenol | 9.157 | 196 | 251790 | 44.170 | ng | | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140118.D
Acq On : 29 Oct 2024 18:11
Operator : RC/JU
Sample : P4594-05MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
BP-F17MSD

**Manual Integrations APPROVED**
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 30 01:02:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.204 | 196 | 257198 | 43.731 | ng | | 98 |
| 46) 1,1'-Biphenyl | 9.351 | 154 | 878196 | 42.269 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.374 | 162 | 695826 | 41.583 | ng | | 99 |
| 48) 2-Nitroaniline | 9.469 | 65 | 245632 | 47.995 | ng | | 95 |
| 49) Acenaphthylene | 9.792 | 152 | 1082787 | 44.758 | ng | | 99 |
| 50) Dimethylphthalate | 9.651 | 163 | 826787 | 44.475 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.710 | 165 | 184892 | 45.935 | ng | | 99 |
| 52) Acenaphthene | 9.963 | 154 | 761393 | 48.653 | ng | | 100 |
| 53) 3-Nitroaniline | 9.874 | 138 | 111215 | 26.794 | ng | | 100 |
| 54) 2,4-Dinitrophenol | 9.986 | 184 | 206930 | 120.169 | ng | # | 1 |
| 55) Dibenzofuran | 10.133 | 168 | 950682 | 42.340 | ng | | 99 |
| 56) 4-Nitrophenol | 10.039 | 139 | 280111 | 87.714 | ng | | 98 |
| 57) 2,4-Dinitrotoluene | 10.116 | 165 | 248556 | 50.216 | ng | | 98 |
| 58) Fluorene | 10.480 | 166 | 731520 | 42.774 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.251 | 232 | 210924 | 45.748 | ng | | 98 |
| 60) Diethylphthalate | 10.351 | 149 | 810344 | 44.396 | ng | | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204 | 370614 | 42.913 | ng | | 100 |
| 62) 4-Nitroaniline | 10.498 | 138 | 173342 | 44.217 | ng | | 97 |
| 63) Azobenzene | 10.627 | 77 | 921250 | 47.609 | ng | | 98 |
| 65) 4,6-Dinitro-2-methylph... | 10.521 | 198 | 136580 | 64.984 | ng | | 97 |
| 66) n-Nitrosodiphenylamine | 10.586 | 169 | 678223 | 43.978 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248 | 237663 | 44.773 | ng | | 99 |
| 68) Hexachlorobenzene | 11.027 | 284 | 260568 | 43.647 | ng | | 97 |
| 69) Atrazine | 11.116 | 200 | 218415 | 52.283 | ng | | 99 |
| 70) Pentachlorophenol | 11.216 | 266 | 304322 | 83.993 | ng | | 99 |
| 71) Phenanthrene | 11.439 | 178 | 1038531 | 42.670 | ng | | 100 |
| 72) Anthracene | 11.492 | 178 | 1054254 | 44.395 | ng | | 100 |
| 73) Carbazole | 11.645 | 167 | 890122 | 40.304 | ng | | 100 |
| 74) Di-n-butylphthalate | 11.974 | 149 | 1155910 | 45.301 | ng | | 100 |
| 75) Fluoranthene | 12.627 | 202 | 960290 | 39.029 | ng | | 99 |
| 77) Benzidine | 12.745 | 184 | 285892 | 66.895 | ng | | 99 |
| 78) Pyrene | 12.857 | 202 | 953914 | 41.929 | ng | | 100 |
| 80) Butylbenzylphthalate | 13.474 | 149 | 367560 | 53.889 | ng | | 99 |
| 81) Benzo(a)anthracene | 14.057 | 228 | 745720 | 44.076 | ng | | 100 |
| 82) 3,3'-Dichlorobenzidine | 14.015 | 252 | 162112 | 32.863 | ng | | 99 |
| 83) Chrysene | 14.092 | 228 | 684921 | 44.152 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.039 | 149 | 458318 | 59.892 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.680 | 149 | 769095 | 55.256 | ng | | 97 |
| 87) Indeno(1,2,3-cd)pyrene | 17.080 | 276 | 826334 | 45.191 | ng | | 98 |
| 88) Benzo(b)fluoranthene | 15.133 | 252 | 737939 | 42.621 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.168 | 252 | 643033 | 43.064 | ng | | 100 |
| 90) Benzo(a)pyrene | 15.509 | 252 | 671660 | 47.146 | ng | | 100 |
| 91) Dibenzo(a,h)anthracene | 17.103 | 278 | 673094 | 44.126 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 17.539 | 276 | 613365 | 40.256 | ng | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

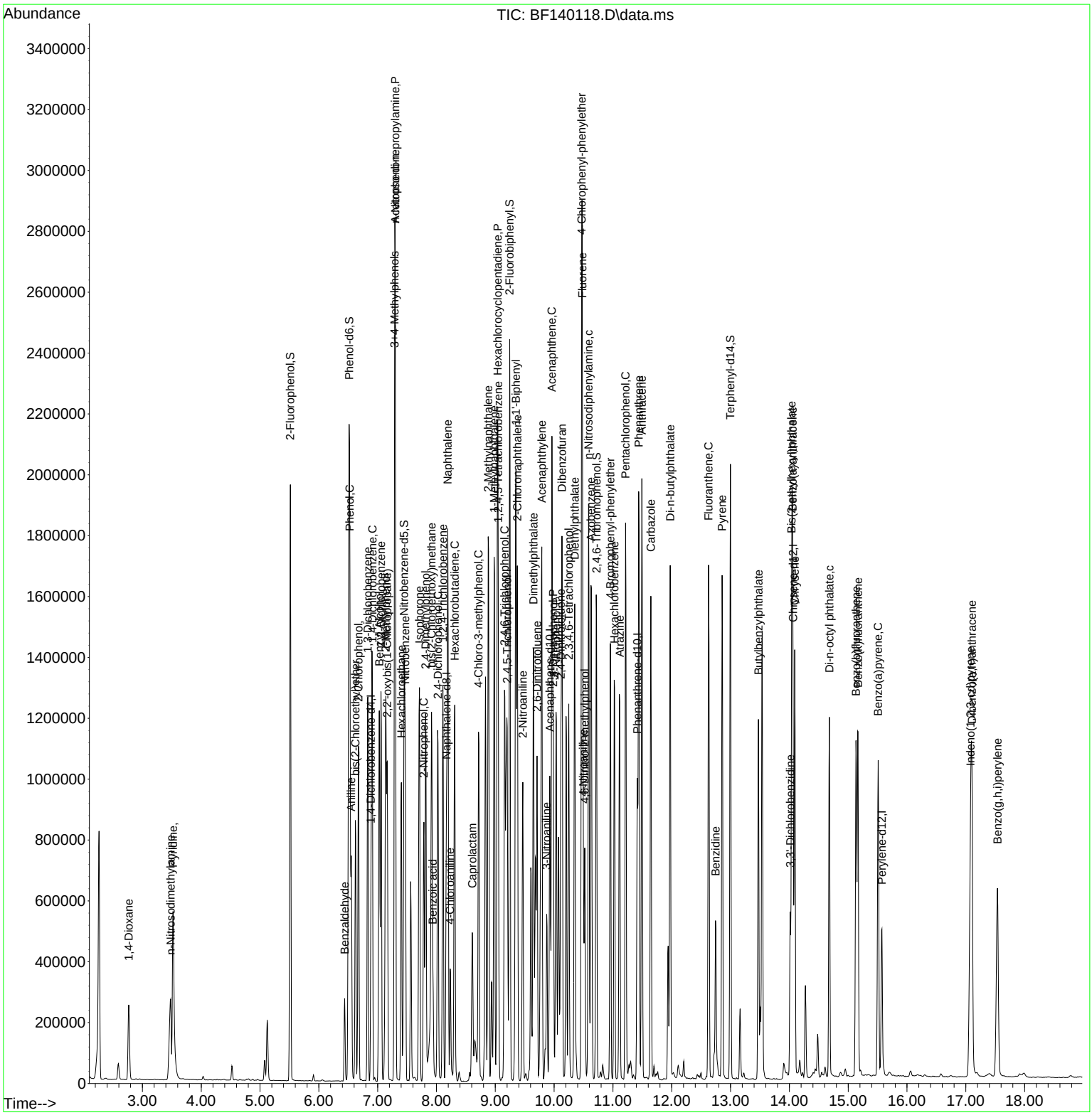
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140118.D
Acq On : 29 Oct 2024 18:11
Operator : RC/JU
Sample : P4594-05MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 30 01:02:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
BP-F17MSD

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# Manual Integration Report

| Sequence: | BE102824 | Instrument | BNA_e |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDICC005 | BE101390.D | bis(2-Chloroethyl)ether | yogesh | 10/29/2024 4:56:49 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICC005 | BE101390.D | Caprolactam | yogesh | 10/29/2024 4:56:49 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICC005 | BE101390.D | n-Nitrosodimethylamine | yogesh | 10/29/2024 4:56:49 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICC005 | BE101390.D | Pyridine | yogesh | 10/29/2024 4:56:49 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICC010 | BE101391.D | Benzoic acid | yogesh | 10/29/2024 4:56:53 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICC010 | BE101391.D | bis(2-Chloroethyl)ether | yogesh | 10/29/2024 4:56:53 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICC010 | BE101391.D | Caprolactam | yogesh | 10/29/2024 4:56:53 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICC010 | BE101391.D | n-Nitrosodimethylamine | yogesh | 10/29/2024 4:56:53 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICC010 | BE101391.D | Pyridine | yogesh | 10/29/2024 4:56:53 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICC020 | BE101392.D | bis(2-Chloroethyl)ether | yogesh | 10/29/2024 4:56:57 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICC020 | BE101392.D | Pyridine | yogesh | 10/29/2024 4:56:57 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICCC040 | BE101393.D | bis(2-Chloroethyl)ether | yogesh | 10/29/2024 4:57:01 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICCC040 | BE101393.D | Pyridine | yogesh | 10/29/2024 4:57:01 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# Manual Integration Report

| Sequence: | BE102824 | Instrument | BNA_e |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDICC050 | BE101394.D | Caprolactam | yogesh | 10/29/2024 4:57:05 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICC050 | BE101394.D | Pyridine | yogesh | 10/29/2024 4:57:05 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICC060 | BE101395.D | Benzo(k)fluoranthene | yogesh | 10/29/2024 4:57:10 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICC060 | BE101395.D | Caprolactam | yogesh | 10/29/2024 4:57:10 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICC060 | BE101395.D | Pyridine | yogesh | 10/29/2024 4:57:10 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICC080 | BE101396.D | Aniline | yogesh | 10/29/2024 4:57:15 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICC080 | BE101396.D | bis(2-Chloroethyl)ether | yogesh | 10/29/2024 4:57:15 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICC080 | BE101396.D | Caprolactam | yogesh | 10/29/2024 4:57:15 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICC080 | BE101396.D | Pyridine | yogesh | 10/29/2024 4:57:15 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICV040 | BE101397.D | Aniline | yogesh | 10/29/2024 4:57:19 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |
| SSTDICV040 | BE101397.D | Pyridine | yogesh | 10/29/2024 4:57:19 AM | mohammad | 10/30/2024 2:48:38 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BE103124 | Instrument | BNA_e |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDCCC040 | BE101425.D | Aniline | yogesh | 11/4/2024 1:41:56 AM | mohammad | 11/4/2024 1:50:57 AM | Peak Integrated by Software |
| SSTDCCC040 | BE101425.D | Caprolactam | yogesh | 11/4/2024 1:41:56 AM | mohammad | 11/4/2024 1:50:57 AM | Peak Integrated by Software |
| SSTDCCC040 | BE101425.D | Pyridine | yogesh | 11/4/2024 1:41:56 AM | mohammad | 11/4/2024 1:50:57 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BF101824 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDICCC040 | BF139848.D | Phenol | yogesh | 10/21/2024 6:33:45 AM | mohammad | 10/21/2024 6:38:35 AM | Peak Integrated by Software |
| SSTDICC050 | BF139849.D | Phenol | yogesh | 10/21/2024 6:33:46 AM | mohammad | 10/21/2024 6:38:35 AM | Peak Integrated by Software |
| SSTDICC060 | BF139850.D | Phenol | yogesh | 10/21/2024 6:33:47 AM | mohammad | 10/21/2024 6:38:35 AM | Peak Integrated by Software |
| SSTDICC080 | BF139851.D | Aniline | yogesh | 10/21/2024 6:33:49 AM | mohammad | 10/21/2024 6:38:35 AM | Peak Integrated by Software |
| SSTDICV040 | BF139852.D | Phenol | yogesh | 10/21/2024 6:33:50 AM | mohammad | 10/21/2024 6:38:35 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BF102924 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDCCC040 | BF140100.D | Phenol | Jagrut | 10/30/2024 10:56:50 AM | mohammad | 11/4/2024 1:49:36 AM | Peak Integrated by Software |
| SSTDCCC040 | BF140113.D | Phenol | Jagrut | 10/30/2024 10:57:02 AM | mohammad | 11/4/2024 1:49:36 AM | Peak Integrated by Software |
| PB164497BS | BF140115.D | Caprolactam | Jagrut | 10/30/2024 10:57:04 AM | mohammad | 11/4/2024 1:49:36 AM | Peak Integrated by Software |
| PB164497BS | BF140115.D | Phenol | Jagrut | 10/30/2024 10:57:04 AM | mohammad | 11/4/2024 1:49:36 AM | Peak Integrated by Software |
| P4594-05MS | BF140117.D | Caprolactam | Jagrut | 10/30/2024 10:57:07 AM | mohammad | 11/4/2024 1:49:36 AM | Peak Integrated by Software |
| P4594-05MS | BF140117.D | Phenol | Jagrut | 10/30/2024 10:57:07 AM | mohammad | 11/4/2024 1:49:36 AM | Peak Integrated by Software |
| P4594-05MSD | BF140118.D | Caprolactam | Jagrut | 10/30/2024 10:57:09 AM | mohammad | 11/4/2024 1:49:36 AM | Peak Integrated by Software |
| P4594-05MSD | BF140118.D | Phenol | Jagrut | 10/30/2024 10:57:09 AM | mohammad | 11/4/2024 1:49:36 AM | Peak Integrated by Software |
| SSTDCCC040 | BF140133.D | Benzoic acid | Jagrut | 10/30/2024 10:57:20 AM | mohammad | 11/4/2024 1:49:36 AM | Peak Integrated by Software |
| SSTDCCC040 | BF140133.D | Phenol | Jagrut | 10/30/2024 10:57:20 AM | mohammad | 11/4/2024 1:49:36 AM | Peak Integrated by Software |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID: BNA_E**

## Daily Analysis Runlog For Sequence/QCBatch ID # BE102824

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/29/2024 4:57:44 AM | | | | |
| Supervise By | mohammad | Supervise On | 10/30/2024 2:48:38 AM | | | | |
| SubDirectory | BE102824 | HP Acquire Method | BNA_E | | HP Processing Method | be102824 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12323,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BE101388.D | 28 Oct 2024 10:51 | RC/JU | Ok |
| 2 | SSTDICC2.5 | BE101389.D | 28 Oct 2024 11:44 | RC/JU | Ok |
| 3 | SSTDICC005 | BE101390.D | 28 Oct 2024 12:23 | RC/JU | Ok,M |
| 4 | SSTDICC010 | BE101391.D | 28 Oct 2024 12:59 | RC/JU | Ok,M |
| 5 | SSTDICC020 | BE101392.D | 28 Oct 2024 13:35 | RC/JU | Ok,M |
| 6 | SSTDICCC040 | BE101393.D | 28 Oct 2024 14:11 | RC/JU | Ok,M |
| 7 | SSTDICC050 | BE101394.D | 28 Oct 2024 14:49 | RC/JU | Ok,M |
| 8 | SSTDICC060 | BE101395.D | 28 Oct 2024 15:25 | RC/JU | Ok,M |
| 9 | SSTDICC080 | BE101396.D | 28 Oct 2024 16:01 | RC/JU | Ok,M |
| 10 | SSTDICV040 | BE101397.D | 28 Oct 2024 16:37 | RC/JU | Ok,M |
| 11 | PB164444BL | BE101398.D | 28 Oct 2024 17:16 | RC/JU | Ok |

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID: BNA_E**

## Daily Analysis Runlog For Sequence/QCBatch ID # BE103124

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/4/2024 1:42:16 AM | | | | |
| Supervise By | mohammad | Supervise On | 11/4/2024 1:50:57 AM | | | | |
| SubDirectory | BE103124 | HP Acquire Method | BNA_E | | HP Processing Method | be102824 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12324,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BE101424.D | 31 Oct 2024 9:40 | RC/JU | Ok |
| 2 | SSTDCCC040 | BE101425.D | 31 Oct 2024 10:18 | RC/JU | Ok,M |
| 3 | PB164533BL | BE101426.D | 31 Oct 2024 10:57 | RC/JU | Ok |
| 4 | PB164533BS | BE101427.D | 31 Oct 2024 11:33 | RC/JU | Ok,M |
| 5 | PB164533BSD | BE101428.D | 31 Oct 2024 12:09 | RC/JU | Ok,M |
| 6 | P4616-08 | BE101429.D | 31 Oct 2024 12:51 | RC/JU | Ok |
| 7 | P4616-01 | BE101430.D | 31 Oct 2024 13:26 | RC/JU | Ok |
| 8 | P4616-01MS | BE101431.D | 31 Oct 2024 14:02 | RC/JU | Not Ok |
| 9 | P4616-01MSD | BE101432.D | 31 Oct 2024 14:38 | RC/JU | Not Ok |
| 10 | P4578-02 | BE101433.D | 31 Oct 2024 15:14 | RC/JU | ReRun |
| 11 | P4639-03 | BE101434.D | 31 Oct 2024 15:50 | RC/JU | Ok |
| 12 | P4640-01 | BE101435.D | 31 Oct 2024 16:25 | RC/JU | Ok,M |
| 13 | P4640-01MS | BE101436.D | 31 Oct 2024 17:01 | RC/JU | Not Ok |
| 14 | P4640-01MSD | BE101437.D | 31 Oct 2024 17:37 | RC/JU | Ok,M |
| 15 | P4598-09 | BE101438.D | 31 Oct 2024 18:13 | RC/JU | Ok |
| 16 | P4594-01 | BE101439.D | 31 Oct 2024 18:49 | RC/JU | Ok |
| 17 | P4611-07 | BE101440.D | 31 Oct 2024 19:24 | RC/JU | Ok,M |
| 18 | P4618-01 | BE101441.D | 31 Oct 2024 20:00 | RC/JU | Ok |
| 19 | P4595-01 | BE101442.D | 31 Oct 2024 20:36 | RC/JU | Ok |

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/21/2024 6:34:01 AM | | | | |
| Supervise By | mohammad | Supervise On | 10/21/2024 6:38:35 AM | | | | |
| SubDirectory | BF101824 | HP Acquire Method | BNA_F | | HP Processing Method | bf101824 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12322,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF139843.D | 18 Oct 2024 09:22 | RC/JU | Ok |
| 2 | SSTDICC2.5 | BF139844.D | 18 Oct 2024 10:27 | RC/JU | Ok |
| 3 | SSTDICC005 | BF139845.D | 18 Oct 2024 10:55 | RC/JU | Ok |
| 4 | SSTDICC010 | BF139846.D | 18 Oct 2024 11:23 | RC/JU | Ok |
| 5 | SSTDICC020 | BF139847.D | 18 Oct 2024 11:52 | RC/JU | Ok |
| 6 | SSTDICCC040 | BF139848.D | 18 Oct 2024 12:20 | RC/JU | Ok,M |
| 7 | SSTDICC050 | BF139849.D | 18 Oct 2024 12:49 | RC/JU | Ok,M |
| 8 | SSTDICC060 | BF139850.D | 18 Oct 2024 13:17 | RC/JU | Ok,M |
| 9 | SSTDICC080 | BF139851.D | 18 Oct 2024 13:46 | RC/JU | Ok,M |
| 10 | SSTDICV040 | BF139852.D | 18 Oct 2024 14:19 | RC/JU | Ok,M |
| 11 | PB164211BL | BF139853.D | 18 Oct 2024 14:48 | RC/JU | Ok |
| 12 | P4405-01 | BF139854.D | 18 Oct 2024 15:21 | RC/JU | Ok |
| 13 | P4431-01 | BF139855.D | 18 Oct 2024 15:50 | RC/JU | Ok,M |
| 14 | P4421-01 | BF139856.D | 18 Oct 2024 16:18 | RC/JU | Ok,M |
| 15 | P4422-01 | BF139857.D | 18 Oct 2024 16:46 | RC/JU | Ok |
| 16 | P4425-01 | BF139858.D | 18 Oct 2024 17:15 | RC/JU | Ok |
| 17 | P4425-03 | BF139859.D | 18 Oct 2024 17:44 | RC/JU | Ok |
| 18 | P4425-05 | BF139860.D | 18 Oct 2024 18:12 | RC/JU | Ok |
| 19 | P4425-07 | BF139861.D | 18 Oct 2024 18:41 | RC/JU | ReRun |
| 20 | P4425-09 | BF139862.D | 18 Oct 2024 19:09 | RC/JU | ReRun |
| 21 | P4426-03 | BF139863.D | 18 Oct 2024 19:37 | RC/JU | ReRun |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/21/2024 6:34:01 AM | | |
| Supervise By | mohammad | Supervise On | 10/21/2024 6:38:35 AM | | |
| SubDirectory | BF101824 | HP Acquire Method | BNA_F | HP Processing Method | bf101824 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12322,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | P4426-07 | BF139864.D | 18 Oct 2024 20:05 | RC/JU | ReRun |
| 23 | P4426-17 | BF139865.D | 18 Oct 2024 20:34 | RC/JU | ReRun |
| 24 | P4426-11 | BF139866.D | 18 Oct 2024 21:02 | RC/JU | ReRun |

M : Manual Integration

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF102924

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 10/30/2024 10:58:28 AM | | | | |
| Supervise By | mohammad | Supervise On | 11/4/2024 1:49:36 AM | | | | |
| SubDirectory | BF102924 | HP Acquire Method | BNA_F | | HP Processing Method | bf101824 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12323,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF140099.D | 29 Oct 2024 09:09 | RC/JU | Ok |
| 2 | SSTDCCC040 | BF140100.D | 29 Oct 2024 09:37 | RC/JU | Ok,M |
| 3 | PB164461BL | BF140101.D | 29 Oct 2024 10:05 | RC/JU | Ok |
| 4 | PB164461BS | BF140102.D | 29 Oct 2024 10:33 | RC/JU | Ok,M |
| 5 | P4495-12 | BF140103.D | 29 Oct 2024 11:01 | RC/JU | Ok |
| 6 | P4561-05 | BF140104.D | 29 Oct 2024 11:34 | RC/JU | Ok |
| 7 | P4561-05MS | BF140105.D | 29 Oct 2024 12:02 | RC/JU | Ok,M |
| 8 | P4561-05MSD | BF140106.D | 29 Oct 2024 12:30 | RC/JU | Ok,M |
| 9 | P4574-07 | BF140107.D | 29 Oct 2024 12:58 | RC/JU | Ok |
| 10 | P4574-09 | BF140108.D | 29 Oct 2024 13:24 | RC/JU | Ok |
| 11 | P4574-11 | BF140109.D | 29 Oct 2024 13:50 | RC/JU | Ok |
| 12 | P4578-05 | BF140110.D | 29 Oct 2024 14:16 | RC/JU | Ok |
| 13 | P4578-07 | BF140111.D | 29 Oct 2024 14:42 | RC/JU | Ok |
| 14 | DFTPP | BF140112.D | 29 Oct 2024 15:35 | RC/JU | Ok |
| 15 | SSTDCCC040 | BF140113.D | 29 Oct 2024 16:01 | RC/JU | Ok,M |
| 16 | PB164497BL | BF140114.D | 29 Oct 2024 16:26 | RC/JU | Ok |
| 17 | PB164497BS | BF140115.D | 29 Oct 2024 16:52 | RC/JU | Ok,M |
| 18 | P4594-05 | BF140116.D | 29 Oct 2024 17:18 | RC/JU | Ok |
| 19 | P4594-05MS | BF140117.D | 29 Oct 2024 17:45 | RC/JU | Ok,M |
| 20 | P4594-05MSD | BF140118.D | 29 Oct 2024 18:11 | RC/JU | Ok,M |
| 21 | P4597-07 | BF140119.D | 29 Oct 2024 18:37 | RC/JU | Ok,M |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF102924

| | | | | | |
|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 10/30/2024 10:58:28 AM | | |
| Supervise By | mohammad | Supervise On | 11/4/2024 1:49:36 AM | | |
| SubDirectory | BF102924 | HP Acquire Method | BNA_F | HP Processing Method | bf101824 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12323,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | P4594-17 | BF140120.D | 29 Oct 2024 19:03 | RC/JU | Ok |
| 23 | P4598-05 | BF140121.D | 29 Oct 2024 19:29 | RC/JU | Ok |
| 24 | P4567-05 | BF140122.D | 29 Oct 2024 19:55 | RC/JU | Ok |
| 25 | P4597-01 | BF140123.D | 29 Oct 2024 20:21 | RC/JU | Ok,M |
| 26 | P4574-01 | BF140124.D | 29 Oct 2024 20:47 | RC/JU | Ok |
| 27 | P4578-04 | BF140125.D | 29 Oct 2024 21:13 | RC/JU | Ok,M |
| 28 | P4561-01 | BF140126.D | 29 Oct 2024 21:39 | RC/JU | Ok |
| 29 | P4567-09 | BF140127.D | 29 Oct 2024 22:05 | RC/JU | Ok |
| 30 | P4598-01 | BF140128.D | 29 Oct 2024 22:31 | RC/JU | Ok |
| 31 | P4597-04 | BF140129.D | 29 Oct 2024 22:57 | RC/JU | Ok |
| 32 | P4597-10 | BF140130.D | 29 Oct 2024 23:24 | RC/JU | Ok |
| 33 | P4594-13 | BF140131.D | 29 Oct 2024 23:49 | RC/JU | Ok |
| 34 | DFTPP | BF140132.D | 30 Oct 2024 00:41 | RC/JU | Ok |
| 35 | SSTDCCC040 | BF140133.D | 30 Oct 2024 01:11 | RC/JU | Ok,M |
| 36 | PB164500BL | BF140134.D | 30 Oct 2024 02:04 | RC/JU | Ok |
| 37 | PB164478TB | BF140135.D | 30 Oct 2024 02:30 | RC/JU | Ok |
| 38 | PB164500BS | BF140136.D | 30 Oct 2024 02:56 | RC/JU | Ok,M |
| 39 | P4597-03 | BF140137.D | 30 Oct 2024 03:22 | RC/JU | Ok |
| 40 | P4597-06 | BF140138.D | 30 Oct 2024 03:48 | RC/JU | Ok |
| 41 | P4594-04 | BF140139.D | 30 Oct 2024 04:14 | RC/JU | Ok |
| 42 | P4594-04MS | BF140140.D | 30 Oct 2024 04:40 | RC/JU | Ok,M |
| 43 | P4594-04MSD | BF140141.D | 30 Oct 2024 05:06 | RC/JU | Ok,M |
| 44 | P4594-08 | BF140142.D | 30 Oct 2024 05:32 | RC/JU | Ok |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF102924

| | | | | | |
|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 10/30/2024 10:58:28 AM | | |
| Supervise By | mohammad | Supervise On | 11/4/2024 1:49:36 AM | | |
| SubDirectory | BF102924 | HP Acquire Method | BNA_F | HP Processing Method | bf101824 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12323,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 45 | P4594-12 | BF140143.D | 30 Oct 2024 05:58 | RC/JU | Ok |
| 46 | P4594-16 | BF140144.D | 30 Oct 2024 06:24 | RC/JU | Ok |
| 47 | P4594-20 | BF140145.D | 30 Oct 2024 06:50 | RC/JU | Ok |
| 48 | P4597-09 | BF140146.D | 30 Oct 2024 07:16 | RC/JU | Ok |
| 49 | P4597-12 | BF140147.D | 30 Oct 2024 07:42 | RC/JU | Ok |
| 50 | P4598-04 | BF140148.D | 30 Oct 2024 08:08 | RC/JU | Ok |
| 51 | P4598-08 | BF140149.D | 30 Oct 2024 08:34 | RC/JU | Ok |
| 52 | P4598-12 | BF140150.D | 30 Oct 2024 09:00 | RC/JU | Ok |

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**Instrument ID:** BNA_E

## Daily Analysis Runlog For Sequence/QCBatch ID # BE102824

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/29/2024 4:57:44 AM | | |
| Supervise By | mohammad | Supervise On | 10/30/2024 2:48:38 AM | | |
| SubDirectory | BE102824 | HP Acquire Method | BNA_E | HP Processing Method | be102824 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12323,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BE101388.D | 28 Oct 2024 10:51 | | RC/JU | Ok |
| 2 | SSTDICC2.5 | SSTDICC2.5 | BE101389.D | 28 Oct 2024 11:44 | | RC/JU | Ok |
| 3 | SSTDICC005 | SSTDICC005 | BE101390.D | 28 Oct 2024 12:23 | Compound #32,54,56,65 removed from 5ppm | RC/JU | Ok,M |
| 4 | SSTDICC010 | SSTDICC010 | BE101391.D | 28 Oct 2024 12:59 | | RC/JU | Ok,M |
| 5 | SSTDICC020 | SSTDICC020 | BE101392.D | 28 Oct 2024 13:35 | Compound #32,54 Kept on LR | RC/JU | Ok,M |
| 6 | SSTDICCC040 | SSTDICCC040 | BE101393.D | 28 Oct 2024 14:11 | The Calibration is Good For 8270 DOD Except com#77 and Not good for 625.1 Method | RC/JU | Ok,M |
| 7 | SSTDICC050 | SSTDICC050 | BE101394.D | 28 Oct 2024 14:49 | Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD | RC/JU | Ok,M |
| 8 | SSTDICC060 | SSTDICC060 | BE101395.D | 28 Oct 2024 15:25 | Compound #69 removed from 60ppm | RC/JU | Ok,M |
| 9 | SSTDICC080 | SSTDICC080 | BE101396.D | 28 Oct 2024 16:01 | Compound #9,69,79 removed from 80ppm | RC/JU | Ok,M |
| 10 | SSTDICV040 | ICVBE102824 | BE101397.D | 28 Oct 2024 16:37 | ICV Fail for Com#77 for Both DOD and NON-DOD | RC/JU | Ok,M |
| 11 | PB164444BL | PB164444BL | BE101398.D | 28 Oct 2024 17:16 | | RC/JU | Ok |

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**Instrument ID:** BNA_E

## Daily Analysis Runlog For Sequence/QCBatch ID # BE103124

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/4/2024 1:42:16 AM | | |
| Supervise By | mohammad | Supervise On | 11/4/2024 1:50:57 AM | | |
| SubDirectory | BE103124 | HP Acquire Method | BNA_E | HP Processing Method | be102824 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12324,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BE101424.D | 31 Oct 2024 9:40 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BE101425.D | 31 Oct 2024 10:18 | | RC/JU | Ok,M |
| 3 | PB164533BL | PB164533BL | BE101426.D | 31 Oct 2024 10:57 | | RC/JU | Ok |
| 4 | PB164533BS | PB164533BS | BE101427.D | 31 Oct 2024 11:33 | | RC/JU | Ok,M |
| 5 | PB164533BSD | PB164533BSD | BE101428.D | 31 Oct 2024 12:09 | | RC/JU | Ok,M |
| 6 | P4616-08 | BP-F9-MOVED | BE101429.D | 31 Oct 2024 12:51 | | RC/JU | Ok |
| 7 | P4616-01 | BP-F10 | BE101430.D | 31 Oct 2024 13:26 | | RC/JU | Ok |
| 8 | P4616-01MS | BP-F10MS | BE101431.D | 31 Oct 2024 14:02 | MSD Not OK | RC/JU | Not Ok |
| 9 | P4616-01MSD | BP-F10MSD | BE101432.D | 31 Oct 2024 14:38 | Internal standard fail | RC/JU | Not Ok |
| 10 | P4578-02 | WB-305-SW-1 | BE101433.D | 31 Oct 2024 15:14 | Surrogate Fail | RC/JU | ReRun |
| 11 | P4639-03 | EO-02-103024 | BE101434.D | 31 Oct 2024 15:50 | | RC/JU | Ok |
| 12 | P4640-01 | MH-3 | BE101435.D | 31 Oct 2024 16:25 | | RC/JU | Ok,M |
| 13 | P4640-01MS | MH-3MS | BE101436.D | 31 Oct 2024 17:01 | | RC/JU | Not Ok |
| 14 | P4640-01MSD | MH-3MSD | BE101437.D | 31 Oct 2024 17:37 | | RC/JU | Ok,M |
| 15 | P4598-09 | TP-8 | BE101438.D | 31 Oct 2024 18:13 | | RC/JU | Ok |
| 16 | P4594-01 | TP-4 | BE101439.D | 31 Oct 2024 18:49 | | RC/JU | Ok |
| 17 | P4611-07 | TP-3 | BE101440.D | 31 Oct 2024 19:24 | | RC/JU | Ok,M |
| 18 | P4618-01 | HR-01-102924 | BE101441.D | 31 Oct 2024 20:00 | | RC/JU | Ok |

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**Instrument ID:** BNA_E

## Daily Analysis Runlog For Sequence/QCBatch ID # BE103124

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/4/2024 1:42:16 AM | | |
| Supervise By | mohammad | Supervise On | 11/4/2024 1:50:57 AM | | |
| SubDirectory | BE103124 | HP Acquire Method | BNA_E | HP Processing Method | be102824 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12324,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4595-01 | PITKIN-COMP | BE101442.D | 31 Oct 2024 20:36 | | RC/JU | Ok |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/21/2024 6:34:01 AM | | |
| Supervise By | mohammad | Supervise On | 10/21/2024 6:38:35 AM | | |
| SubDirectory | BF101824 | HP Acquire Method | BNA_F | HP Processing Method | bf101824 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12322,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BF139843.D | 18 Oct 2024 09:22 | | RC/JU | Ok |
| 2 | SSTDICC2.5 | SSTDICC2.5 | BF139844.D | 18 Oct 2024 10:27 | | RC/JU | Ok |
| 3 | SSTDICC005 | SSTDICC005 | BF139845.D | 18 Oct 2024 10:55 | Compound #9,32,54,65,85 removed from 5 ppm | RC/JU | Ok |
| 4 | SSTDICC010 | SSTDICC010 | BF139846.D | 18 Oct 2024 11:23 | | RC/JU | Ok |
| 5 | SSTDICC020 | SSTDICC020 | BF139847.D | 18 Oct 2024 11:52 | Compound #54 Kept on LR | RC/JU | Ok |
| 6 | SSTDICCC040 | SSTDICCC040 | BF139848.D | 18 Oct 2024 12:20 | The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method | RC/JU | Ok,M |
| 7 | SSTDICC050 | SSTDICC050 | BF139849.D | 18 Oct 2024 12:49 | Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD | RC/JU | Ok,M |
| 8 | SSTDICC060 | SSTDICC060 | BF139850.D | 18 Oct 2024 13:17 | | RC/JU | Ok,M |
| 9 | SSTDICC080 | SSTDICC080 | BF139851.D | 18 Oct 2024 13:46 | | RC/JU | Ok,M |
| 10 | SSTDICV040 | SSTDICV040 | BF139852.D | 18 Oct 2024 14:19 | | RC/JU | Ok,M |
| 11 | PB164211BL | PB164211BL | BF139853.D | 18 Oct 2024 14:48 | | RC/JU | Ok |
| 12 | P4405-01 | MH-121 | BF139854.D | 18 Oct 2024 15:21 | | RC/JU | Ok |
| 13 | P4431-01 | 72-11934 | BF139855.D | 18 Oct 2024 15:50 | | RC/JU | Ok,M |
| 14 | P4421-01 | EO-02-101624 | BF139856.D | 18 Oct 2024 16:18 | | RC/JU | Ok,M |
| 15 | P4422-01 | EO-01-101624 | BF139857.D | 18 Oct 2024 16:46 | | RC/JU | Ok |
| 16 | P4425-01 | TP-1 | BF139858.D | 18 Oct 2024 17:15 | | RC/JU | Ok |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/21/2024 6:34:01 AM | | |
| Supervise By | mohammad | Supervise On | 10/21/2024 6:38:35 AM | | |
| SubDirectory | BF101824 | HP Acquire Method | BNA_F | HP Processing Method | bf101824 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12322,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 17 | P4425-03 | TP-2 | BF139859.D | 18 Oct 2024 17:44 | | RC/JU | Ok |
| 18 | P4425-05 | TP-3 | BF139860.D | 18 Oct 2024 18:12 | | RC/JU | Ok |
| 19 | P4425-07 | TP-4 | BF139861.D | 18 Oct 2024 18:41 | Internal Standrad Fail | RC/JU | ReRun |
| 20 | P4425-09 | TP-5 | BF139862.D | 18 Oct 2024 19:09 | Internal Standrad Fail | RC/JU | ReRun |
| 21 | P4426-03 | PAD-2 | BF139863.D | 18 Oct 2024 19:37 | Internal Standrad Fail | RC/JU | ReRun |
| 22 | P4426-07 | PAD-4 | BF139864.D | 18 Oct 2024 20:05 | Internal Standrad Fail | RC/JU | ReRun |
| 23 | P4426-17 | PAD-9 | BF139865.D | 18 Oct 2024 20:34 | Internal Standard Fail | RC/JU | ReRun |
| 24 | P4426-11 | PAD-6 | BF139866.D | 18 Oct 2024 21:02 | Internal Standard Fail | RC/JU | ReRun |

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Fax : 908 789 8922

**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF102924

| | | | | | |
|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 10/30/2024 10:58:28 AM | | |
| Supervise By | mohammad | Supervise On | 11/4/2024 1:49:36 AM | | |
| SubDirectory | BF102924 | HP Acquire Method | BNA_F | HP Processing Method | bf101824 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12323,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BF140099.D | 29 Oct 2024 09:09 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BF140100.D | 29 Oct 2024 09:37 | | RC/JU | Ok,M |
| 3 | PB164461BL | PB164461BL | BF140101.D | 29 Oct 2024 10:05 | | RC/JU | Ok |
| 4 | PB164461BS | PB164461BS | BF140102.D | 29 Oct 2024 10:33 | | RC/JU | Ok,M |
| 5 | P4495-12 | PT-TRIAZINE-SOIL | BF140103.D | 29 Oct 2024 11:01 | | RC/JU | Ok |
| 6 | P4561-05 | BP-F-18 | BF140104.D | 29 Oct 2024 11:34 | | RC/JU | Ok |
| 7 | P4561-05MS | BP-F-18MS | BF140105.D | 29 Oct 2024 12:02 | | RC/JU | Ok,M |
| 8 | P4561-05MSD | BP-F-18MSD | BF140106.D | 29 Oct 2024 12:30 | | RC/JU | Ok,M |
| 9 | P4574-07 | CONCRETE-1 | BF140107.D | 29 Oct 2024 12:58 | | RC/JU | Ok |
| 10 | P4574-09 | CONCRETE-2 | BF140108.D | 29 Oct 2024 13:24 | | RC/JU | Ok |
| 11 | P4574-11 | CONCRETE-3 | BF140109.D | 29 Oct 2024 13:50 | | RC/JU | Ok |
| 12 | P4578-05 | WB-305-BOT | BF140110.D | 29 Oct 2024 14:16 | | RC/JU | Ok |
| 13 | P4578-07 | WB-305-BOT-1 | BF140111.D | 29 Oct 2024 14:42 | | RC/JU | Ok |
| 14 | DFTPP | DFTPP | BF140112.D | 29 Oct 2024 15:35 | | RC/JU | Ok |
| 15 | SSTDCCC040 | SSTDCCC040 | BF140113.D | 29 Oct 2024 16:01 | | RC/JU | Ok,M |
| 16 | PB164497BL | PB164497BL | BF140114.D | 29 Oct 2024 16:26 | | RC/JU | Ok |
| 17 | PB164497BS | PB164497BS | BF140115.D | 29 Oct 2024 16:52 | | RC/JU | Ok,M |
| 18 | P4594-05 | BP-F17 | BF140116.D | 29 Oct 2024 17:18 | | RC/JU | Ok |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF102924

| | | | | | |
|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 10/30/2024 10:58:28 AM | | |
| Supervise By | mohammad | Supervise On | 11/4/2024 1:49:36 AM | | |
| SubDirectory | BF102924 | HP Acquire Method | BNA_F | HP Processing Method | bf101824 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12323,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4594-05MS | BP-F17MS | BF140117.D | 29 Oct 2024 17:45 | | RC/JU | Ok,M |
| 20 | P4594-05MSD | BP-F17MSD | BF140118.D | 29 Oct 2024 18:11 | | RC/JU | Ok,M |
| 21 | P4597-07 | BLUE-2-1 | BF140119.D | 29 Oct 2024 18:37 | | RC/JU | Ok,M |
| 22 | P4594-17 | BP-F15 | BF140120.D | 29 Oct 2024 19:03 | | RC/JU | Ok |
| 23 | P4598-05 | BP-F11 | BF140121.D | 29 Oct 2024 19:29 | | RC/JU | Ok |
| 24 | P4567-05 | WC-2 | BF140122.D | 29 Oct 2024 19:55 | | RC/JU | Ok |
| 25 | P4597-01 | RED-1-1 | BF140123.D | 29 Oct 2024 20:21 | | RC/JU | Ok,M |
| 26 | P4574-01 | GRAVEL-1 | BF140124.D | 29 Oct 2024 20:47 | | RC/JU | Ok |
| 27 | P4578-04 | WB-305-TOP-1 | BF140125.D | 29 Oct 2024 21:13 | | RC/JU | Ok,M |
| 28 | P4561-01 | BP-F-19 | BF140126.D | 29 Oct 2024 21:39 | | RC/JU | Ok |
| 29 | P4567-09 | WC-3 | BF140127.D | 29 Oct 2024 22:05 | | RC/JU | Ok |
| 30 | P4598-01 | BP-F12 | BF140128.D | 29 Oct 2024 22:31 | | RC/JU | Ok |
| 31 | P4597-04 | RED-1-2 | BF140129.D | 29 Oct 2024 22:57 | | RC/JU | Ok |
| 32 | P4597-10 | BLUE-2-2 | BF140130.D | 29 Oct 2024 23:24 | | RC/JU | Ok |
| 33 | P4594-13 | TP-5 | BF140131.D | 29 Oct 2024 23:49 | | RC/JU | Ok |
| 34 | DFTPP | DFTPP | BF140132.D | 30 Oct 2024 00:41 | | RC/JU | Ok |
| 35 | SSTDCCC040 | SSTDCCC040 | BF140133.D | 30 Oct 2024 01:11 | | RC/JU | Ok,M |
| 36 | PB164500BL | PB164500BL | BF140134.D | 30 Oct 2024 02:04 | | RC/JU | Ok |
| 37 | PB164478TB | PB164478TB | BF140135.D | 30 Oct 2024 02:30 | | RC/JU | Ok |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF102924

| | | | | | |
|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 10/30/2024 10:58:28 AM | | |
| Supervise By | mohammad | Supervise On | 11/4/2024 1:49:36 AM | | |
| SubDirectory | BF102924 | HP Acquire Method | BNA_F | HP Processing Method | bf101824 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12323,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | PB164500BS | PB164500BS | BF140136.D | 30 Oct 2024 02:56 | | RC/JU | Ok,M |
| 39 | P4597-03 | RED-1-1 | BF140137.D | 30 Oct 2024 03:22 | | RC/JU | Ok |
| 40 | P4597-06 | RED-1-2 | BF140138.D | 30 Oct 2024 03:48 | | RC/JU | Ok |
| 41 | P4594-04 | TP-4 | BF140139.D | 30 Oct 2024 04:14 | | RC/JU | Ok |
| 42 | P4594-04MS | TP-4MS | BF140140.D | 30 Oct 2024 04:40 | | RC/JU | Ok,M |
| 43 | P4594-04MSD | TP-4MSD | BF140141.D | 30 Oct 2024 05:06 | | RC/JU | Ok,M |
| 44 | P4594-08 | BP-F17 | BF140142.D | 30 Oct 2024 05:32 | | RC/JU | Ok |
| 45 | P4594-12 | BP-F16 | BF140143.D | 30 Oct 2024 05:58 | | RC/JU | Ok |
| 46 | P4594-16 | TP-5 | BF140144.D | 30 Oct 2024 06:24 | | RC/JU | Ok |
| 47 | P4594-20 | BP-F15 | BF140145.D | 30 Oct 2024 06:50 | | RC/JU | Ok |
| 48 | P4597-09 | BLUE-2-1 | BF140146.D | 30 Oct 2024 07:16 | | RC/JU | Ok |
| 49 | P4597-12 | BLUE-2-2 | BF140147.D | 30 Oct 2024 07:42 | | RC/JU | Ok |
| 50 | P4598-04 | BP-F12 | BF140148.D | 30 Oct 2024 08:08 | | RC/JU | Ok |
| 51 | P4598-08 | BP-F11 | BF140149.D | 30 Oct 2024 08:34 | | RC/JU | Ok |
| 52 | P4598-12 | TP-8 | BF140150.D | 30 Oct 2024 09:00 | | RC/JU | Ok |

M : Manual Integration

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 10/29/2024

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:00
**In Date:** 10/28/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:15
**Out Date:** 10/29/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB133172

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| P4594-01 | TP-4 | 1 | 1.15 | 8.65 | 9.8 | 8.87 | 89.2 | |
| P4594-02 | TP-4-EPH | 2 | 1.15 | 8.55 | 9.7 | 8.83 | 89.8 | |
| P4594-03 | TP-4-VOC | 3 | 1.18 | 8.62 | 9.8 | 8.85 | 89.0 | |
| P4594-05 | BP-F17 | 4 | 1.14 | 8.85 | 9.99 | 9.02 | 89.0 | |
| P4594-06 | BP-F17-EPH | 5 | 1.17 | 8.56 | 9.73 | 8.77 | 88.8 | |
| P4594-07 | BP-F17-VOC | 6 | 1.19 | 8.73 | 9.92 | 8.98 | 89.2 | |
| P4594-09 | BP-F16 | 7 | 1.18 | 8.40 | 9.58 | 8.3 | 84.8 | |
| P4594-10 | BP-F16-EPH | 8 | 1.12 | 8.70 | 9.82 | 8.68 | 86.9 | |
| P4594-11 | BP-F16-VOC | 9 | 1.16 | 8.63 | 9.79 | 8.34 | 83.2 | |
| P4594-13 | TP-5 | 10 | 1.16 | 8.66 | 9.82 | 8.87 | 89.0 | |
| P4594-14 | TP-5-EPH | 11 | 1.17 | 8.38 | 9.55 | 8.63 | 89.0 | |
| P4594-15 | TP-5-VOC | 12 | 1.12 | 8.65 | 9.77 | 8.86 | 89.5 | |
| P4594-17 | BP-F15 | 13 | 1.19 | 8.58 | 9.77 | 8.84 | 89.2 | |
| P4594-18 | BP-F15-EPH | 14 | 1.18 | 8.66 | 9.84 | 8.78 | 87.8 | |
| P4594-19 | BP-F15-VOC | 15 | 1.12 | 8.77 | 9.89 | 8.81 | 87.7 | |
| P4595-01 | PITKIN-COMP | 16 | 1.12 | 8.73 | 9.85 | 9.28 | 93.5 | |
| P4595-03 | PITKIN-THP2 | 17 | 1.15 | 8.69 | 9.84 | 9.36 | 94.5 | |
| P4595-04 | PITKIN-TPH3 | 18 | 1.17 | 8.80 | 9.97 | 9.4 | 93.5 | |
| P4595-05 | PITKIN-GRAB | 19 | 1.15 | 8.37 | 9.52 | 9.16 | 95.7 | |
| P4597-01 | RED-1-1 | 20 | 1.15 | 8.44 | 9.59 | 8.61 | 88.4 | |
| P4597-02 | RED-1-1-E2 | 21 | 1.15 | 8.68 | 9.83 | 9.00 | 90.4 | |
| P4597-04 | RED-1-2 | 22 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | stone sample, 100 % solids |
| P4597-05 | RED-1-2-E2 | 23 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | stone sample, 100 % solids |
| P4597-07 | BLUE-2-1 | 24 | 1.16 | 8.69 | 9.85 | 8.58 | 85.4 | |
| P4597-08 | BLUE-2-1-E2 | 25 | 1.17 | 8.65 | 9.82 | 8.37 | 83.2 | |
| P4597-10 | BLUE-2-2 | 26 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | stone sample, 100 % solids |
| P4597-11 | BLUE-2-2-E2 | 27 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | stone sample, 100 % solids |
| P4598-01 | BP-F12 | 28 | 1.12 | 8.73 | 9.85 | 8.81 | 88.1 | |

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 10/29/2024

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:00
**In Date:** 10/28/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:15
**Out Date:** 10/29/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB133172

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| P4598-02 | BP-F12-EPH | 29 | 1.19 | 8.65 | 9.84 | 8.72 | 87.1 | |
| P4598-03 | BP-F12-VOC | 30 | 1.15 | 8.82 | 9.97 | 8.63 | 84.8 | |
| P4598-05 | BP-F11 | 31 | 1.17 | 8.50 | 9.67 | 8.8 | 89.8 | |
| P4598-06 | BP-F11-EPH | 32 | 1.15 | 8.81 | 9.96 | 9.16 | 90.9 | |
| P4598-07 | BP-F11-VOC | 33 | 1.17 | 8.49 | 9.66 | 8.73 | 89.0 | |
| P4598-09 | TP-8 | 34 | 1.18 | 8.60 | 9.78 | 9.02 | 91.2 | |
| P4598-10 | TP-8-EPH | 35 | 1.17 | 8.68 | 9.85 | 8.97 | 89.9 | |
| P4598-11 | TP-8-VOC | 36 | 1.12 | 8.55 | 9.67 | 9.05 | 92.7 | |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

# WORKLIST(Hardcopy Internal Chain)

VB 133172

**WorkList Name :** %1-102824 **WorkList ID :** 184850 **Department :** Wet-Chemistry **Date :** 10-28-2024 08:24:16

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4594-01 | TP-4 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | Chemtech -SO |
| P4594-02 | TP-4-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | Chemtech -SO |
| P4594-03 | TP-4-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | Chemtech -SO |
| P4594-05 | BP-F17 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | Chemtech -SO |
| P4594-06 | BP-F17-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | Chemtech -SO |
| P4594-07 | BP-F17-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | Chemtech -SO |
| P4594-09 | BP-F16 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | Chemtech -SO |
| P4594-10 | BP-F16-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | Chemtech -SO |
| P4594-11 | BP-F16-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | Chemtech -SO |
| P4594-13 | TP-5 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | Chemtech -SO |
| P4594-14 | TP-5-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | Chemtech -SO |
| P4594-15 | TP-5-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | Chemtech -SO |
| P4594-17 | BP-F15 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | Chemtech -SO |
| P4594-18 | BP-F15-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | Chemtech -SO |
| P4594-19 | BP-F15-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | Chemtech -SO |
| P4595-01 | PITKIN-COMP | Solid | Percent Solids | Cool 4 deg C | TULL02 | K61 | 10/28/2024 | Chemtech -SO |
| P4595-03 | PITKIN-THP2 | Solid | Percent Solids | Cool 4 deg C | TULL02 | K61 | 10/28/2024 | Chemtech -SO |
| P4595-04 | PITKIN-TPH3 | Solid | Percent Solids | Cool 4 deg C | TULL02 | K61 | 10/28/2024 | Chemtech -SO |
| P4595-05 | PITKIN-GRAB | Solid | Percent Solids | Cool 4 deg C | TULL02 | K61 | 10/28/2024 | Chemtech -SO |
| P4597-01 | RED-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/28/2024 | Chemtech -SO |
| P4597-02 | RED-1-1-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/28/2024 | Chemtech -SO |

**Date/Time** 10/28/24 15:35

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]

**Date/Time** 10/28/24 17:20

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]

# WORKLIST(Hardcopy Internal Chain)

VB 133172

**WorkList Name :** %1-102824 **WorkList ID :** 184850 **Department :** Wet-Chemistry **Date :** 10-28-2024 08:24:16

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4597-04 | RED-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/28/2024 | Chemtech -SO |
| P4597-05 | RED-1-2-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/28/2024 | Chemtech -SO |
| P4597-07 | BLUE-2-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/28/2024 | Chemtech -SO |
| P4597-08 | BLUE-2-1-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/28/2024 | Chemtech -SO |
| P4597-10 | BLUE-2-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/28/2024 | Chemtech -SO |
| P4597-11 | BLUE-2-2-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/28/2024 | Chemtech -SO |
| P4598-01 | BP-F12 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/28/2024 | Chemtech -SO |
| P4598-02 | BP-F12-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/25/2024 | Chemtech -SO |
| P4598-03 | BP-F12-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/25/2024 | Chemtech -SO |
| P4598-05 | BP-F11 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/25/2024 | Chemtech -SO |
| P4598-06 | BP-F11-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/25/2024 | Chemtech -SO |
| P4598-07 | BP-F11-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/25/2024 | Chemtech -SO |
| P4598-09 | TP-8 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/25/2024 | Chemtech -SO |
| P4598-10 | TP-8-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/25/2024 | Chemtech -SO |
| P4598-11 | TP-8-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/25/2024 | Chemtech -SO |

**Date/Time** 10/26/24 15:35
**Raw Sample Received by:** [signature]
**Raw Sample Relinquished by:** [signature]



**Date/Time** 10/26/24 17:20
**Raw Sample Received by:** [signature]
**Raw Sample Relinquished by:** [signature]

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB164497

| | | | | | |
|---|---|---|---|---|---|
| **SOP ID:** | M3541-ASE Extraction-14 | | | | |
| **Clean Up SOP #:** | N/A | | | **Extraction Start Date :** | 10/29/2024 |
| **Matrix :** | Solid | | | **Extraction Start Time :** | 09:15 |
| **Weigh By:** | EH | **Extraction By:** | RJ | **Extraction End Date :** | 10/29/2024 |
| **Balance check:** | RJ | **Filter By:** | RJ | **Extraction End Time :** | 12:15 |
| **Balance ID:** | EX-SC-2 | **pH Meter ID:** | N/A | **Concentration By:** | EH |
| **pH Strip Lot#:** | N/A | **Hood ID:** | 3,7 | **Supervisor By :** | rajesh |

**Extraction Method:** ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 50/100 PPM | SP6630 |
| Surrogate | 1.0ML | 100/150 PPM | SP6638 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| MeCl2/Acetone/1:1 | N/A | EP2538 |
| Baked Na2SO4 | N/A | EP2554 |
| Sand | N/A | E2865 |
| Methylene Chloride | N/A | E3822 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

1.5 ML Vial lot# 2210673.

| | | | |
|---|---|---|---|
| **KD Bath ID:** | N/A | **Envap ID:** | NEVAP-02 |
| **KD Bath Temperature:** | N/A | **Envap Temperature:** | 40 °C |

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/29/24 | RP (Set 1015) | RC/SVOC |
| 12:20 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB164497**

**Analytical Method:** M3541-ASE Extraction-14 **Concentration Date:** 10/29/2024

| Sample ID | Client Sample ID | Test | g mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB164497BL | SBLK497 | SVOC-TCL BNA -20 | 30.01 | N/A | ritesh | Evelyn | 1 | | | U5-1 |
| PB164497BS | SLCS497 | SVOC-TCL BNA -20 | 30.02 | N/A | ritesh | Evelyn | 1 | | | 2 |
| P4594-01 | TP-4 | SVOC-TCL BNA -20 | 50.06 | N/A | ritesh | Evelyn | 1 | A | | 3 |
| P4594-05 | BP-F17 | SVOC-TCL BNA -20 | 50.03 | N/A | ritesh | Evelyn | 1 | A | | 4 |
| P4594-05MS | BP-F17MS | SVOC-TCL BNA -20 | 50.07 | N/A | ritesh | Evelyn | 1 | A | | 5 |
| P4594-05MSD | BP-F17MSD | SVOC-TCL BNA -20 | 50.09 | N/A | ritesh | Evelyn | 1 | A | | 6 |
| P4594-09 | BP-F16 | SVOC-TCL BNA -20 | 50.04 | N/A | ritesh | Evelyn | 1 | A | | U6-1 |
| P4594-13 | TP-5 | SVOC-TCL BNA -20 | 50.10 | N/A | ritesh | Evelyn | 1 | A | | 2 |
| P4594-17 | BP-F15 | SVOC-TCL BNA -20 | 50.03 | N/A | ritesh | Evelyn | 1 | A | | 3 |
| P4595-01 | PITKIN-COMP | SVOC-PAH | 30.02 | N/A | ritesh | Evelyn | 1 | F | | 4 |
| P4597-01 | RED-1-1 | SVOC-TCL BNA -20 | 50.01 | N/A | ritesh | Evelyn | 1 | E | | 5 |
| P4597-04 | RED-1-2 | SVOC-TCL BNA -20 | 50.06 | N/A | ritesh | Evelyn | 1 | E | Stone | 6 |
| P4597-07 | BLUE-2-1 | SVOC-TCL BNA -20 | 50.08 | N/A | ritesh | Evelyn | 1 | E | | U1-1 |
| P4597-10 | BLUE-2-2 | SVOC-TCL BNA -20 | 50.09 | N/A | ritesh | Evelyn | 1 | E | Stone | 2 |
| P4598-01 | BP-F12 | SVOC-TCL BNA -20 | 50.07 | N/A | ritesh | Evelyn | 1 | A | | 3 |
| P4598-05 | BP-F11 | SVOC-TCL BNA -20 | 50.06 | N/A | ritesh | Evelyn | 1 | A | | 4 |
| P4598-09 | TP-8 | SVOC-TCL BNA -20 | 50.03 | N/A | ritesh | Evelyn | 1 | A | | 5 |

* **Extracts relinquished on the same date as received.**

10/29/24

1644497
9:15

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** P4598 **WorkList ID :** 184891 **Department :** Extraction **Date :** 10-29-2024 08:33:06

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4594-01 | TP-4 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | 8270E |
| P4594-05 | BP-F17 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | 8270E |
| P4594-09 | BP-F16 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | 8270E |
| P4594-13 | TP-5 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | 8270E |
| P4594-17 | BP-F15 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | K63 | 10/26/2024 | 8270E |
| P4595-01 | PITKIN-COMP | Solid | SVOC-PAH | Cool 4 deg C | TULL02 | K61 | 10/28/2024 | 8270E |
| P4597-01 | RED-1-1 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | K63 | 10/28/2024 | 8270E |
| P4597-04 | RED-1-2 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | K63 | 10/28/2024 | 8270E |
| P4597-07 | BLUE-2-1 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | K63 | 10/28/2024 | 8270E |
| P4597-10 | BLUE-2-2 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | K63 | 10/28/2024 | 8270E |
| P4598-01 | BP-F12 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | K63 | 10/28/2024 | 8270E |
| P4598-05 | BP-F11 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | K63 | 10/25/2024 | 8270E |
| P4598-09 | TP-8 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | K63 | 10/25/2024 | 8270E |

**Date/Time** 10/29/24 9:10
**Raw Sample Received by:** RJ (Sol. Lab)
**Raw Sample Relinquished by:**



**Date/Time** 10/29/24 9:45
**Raw Sample Received by:**
**Raw Sample Relinquished by:** RS (Sol. Lab)


# SHIPPING DOCUMENTS

# CHEMTECH
## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. / QUOTE NO.: P4595
COC Number: 2041038

**CLIENT INFORMATION** (REPORT TO BE SENT TO)

COMPANY: ~~PSEG~~ TULLY
ADDRESS: Eldert Ln & Blake Ave
CITY Brooklyn STATE: NY ZIP:
ATTENTION:
PHONE: FAX:

**CLIENT PROJECT INFORMATION**

PROJECT NAME: Tully - PitKin
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

**CLIENT BILLING INFORMATION**

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

**DATA TURNAROUND INFORMATION**

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

**DATA DELIVERABLE INFORMATION**

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

**ANALYSIS**

1 SVOC - PAH
2 TCLP Extraction
3 TCLP ICP Metals
4 TCLP Mercury
5 Corrosivity / Ignitability
6 Reactive CN/S/Fide
7 TAL Metals + Mercury
8 TPH
9 TCL VOC

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | PitKin - Comp | Soil | X | | 10.28.24 | 811 | 7 | X | X | X | X | X | X | X | X | | 30.1 ppm |
| 2. | PitKin - TPH2 | | X | | | 816 | 1 | | | | | | | | X | | |
| 3. | PitKin - TPH3 | | X | | | 822 | 1 | | | | | | | | X | | |
| 4. | PitKin - Grab | | | X | | 829 | 4 | | | | | | | | | X | |
| 5. | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |

Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

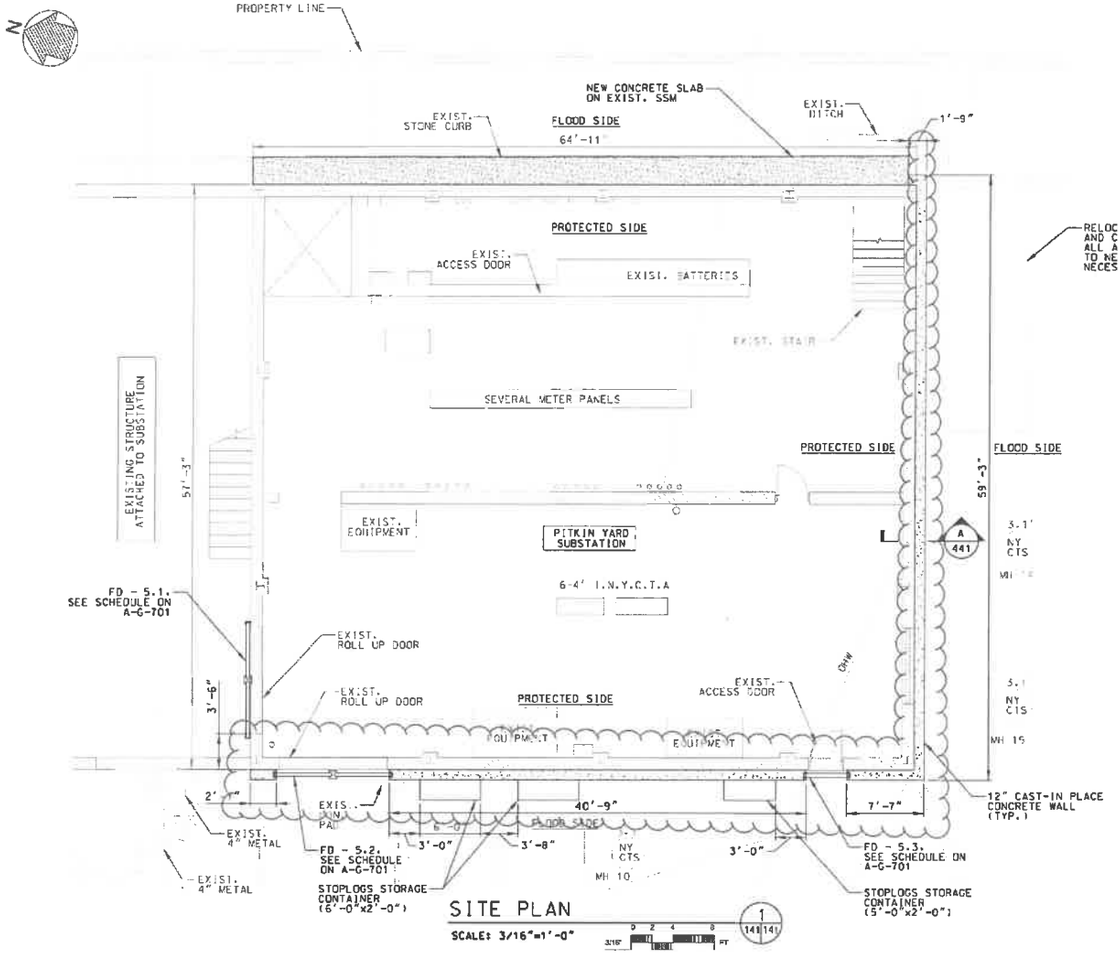
**SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY**

| | RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|---|
| 1. | JT | 10-28-24 845 | 1. |
| 2. | | | 2. |
| 3. | JT | 10.28.24 1200 | 3. |

Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.5 °C
Comments: PID calibrated 10-28-24

Page ____ of ____
CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling
Shipment Complete ☐ YES ☐ NO


WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY




SITE PLAN

SCALE: 3/16"=1'-0"

GENERAL NOTES:

1. PROVIDE ARCHITECTURAL CONCRETE AND FINISH TREATMENTS FOR PERIMETER FLOOD WALL AS SHOWN ON THE PRELIMINARY DRAWINGS. CONCRETE SHALL HAVE VERTICAL REVEAL JOINTS AT 4 FEET ON CENTER.
2. RESTORE SITE HARDSCAPING MATERIALS, FENCING AND PLANTINGS ADJACENT TO THE BUILDING AT AREAS FOR THE FLOOD WALL INSTALLATION.
3. FLOOD DEVICE DETAILS SHOWN HERE ARE FOR REFERENCE ONLY. FLOOD DEVICE SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE PROVIDED BY THE MANUFACTURER IN ACCORDANCE WITH DESIGN DOCUMENTS FOR ENGINEER'S REVIEW.
4. REFER TO P36343-A-G-701 FOR FLOOD DEVICE OPENING SCHEDULE.
5. PREFORMED EXPANSION JOINT FILLER COMPLYING WITH ASTM D1752, TYPE-I (SPONGE RUBBER)

BUILDING CODE NOTES:

1. ALL WORK HAS BE IN ACCORDANCE WITH NEW YORK STATE BUILDING CODE AND REFERENCED CODE, STANDARDS AND REGULATIONS.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF NEW YORK STATE, OSHA 1926, AND OSHA 1910.3
3. EXISTING BUILDING CODE CLASSIFICATIONS:
   3.1 OCCUPANCY: "U" UTILITY STRUCTURE
   3.2 CONSTRUCTION: IIA
   3.3 UNOCCUPIED
4. BUILDING IS AN ELECTRICAL SUBSTATION AND IS UNOCCUPIED.
5. ACCESSIBILITY - BUILDING IS EXEMPT FROM ACCESSIBILITY REQUIREMENT OF THE NYS BUILDING CODE PER SECTION BC 1103.2.4 UTILITY BUILDINGS AND BC 1103.2.9 EQUIPMENT SPACES.
6. PROJECT WORK SCOPE - FLOOD MITIGATION ONLY.
   6.1 NO CHANGE IN OCCUPANCY OR USE OF BUILDING.
   6.2 NO CHANGE IN CONSTRUCTION TYPE.
   6.3 NO CHANGE IN MEANS OF EGRESS FROM BUILDING.
7. 2020 EXISTING BUILDING CODE OF NEW YORK STATE SHALL GOVERN WORK. METHOD OF COMPLIANCE SHALL BE CLASSIFICATION OF WORK:
   7.1 ALTERATION LEVEL 1 - REPLACEMENT OF CONDUIT SEALANTS.
   7.2 ALTERATION LEVEL 2 - CONCRETE FLOOD WALL AND FLOOD BARRIER DEVICES.



| REVISION | DESCRIPTION | DATE | APPROVED |
|---|---|---|---|
| | | | |

REVISIONS

MTA CONSTRUCTION & DEVELOPMENT

CONTRACT P-36343
FLOOD MITIGATION AT TWENTY-SIX (26) SUBSTATIONS IN THE BOROUGH OF BROOKLYN, MANHATTAN AND QUEENS

PITKIN YARD SUBSTATION
SITE PLAN

REGISTERED ARCHITECT ANTHONY DAWKINS 032436 STATE OF NEW YORK

| | | | |
|---|---|---|---|
| DRAWN BY | NA. DARBHA | DarbSn | DATE: 12/08/2023 |
| DESIGNED BY | E. DAWKINS, RA | Ersel Dawkins | DISCIPLINE: ARCHITECTURAL |
| CHECKED BY | L. ASHABIB | Liliana Ashabib | P36343-PIT-A-141 |
| APPROVED BY | E. DAWKINS, RA | Ersel Dawkins | REVISION |

CHEMTECH
Environmental Laboratory
www.chemtech.net | EMAIL: PM@chemtech.net

Project Name: Tully - Pitkin
Service Order #:
Work Order #:
Labor WBS #:
Facility/Site: MOW Building
Site Address: Elder Lane & Blake Ave, Brooklyn NJ

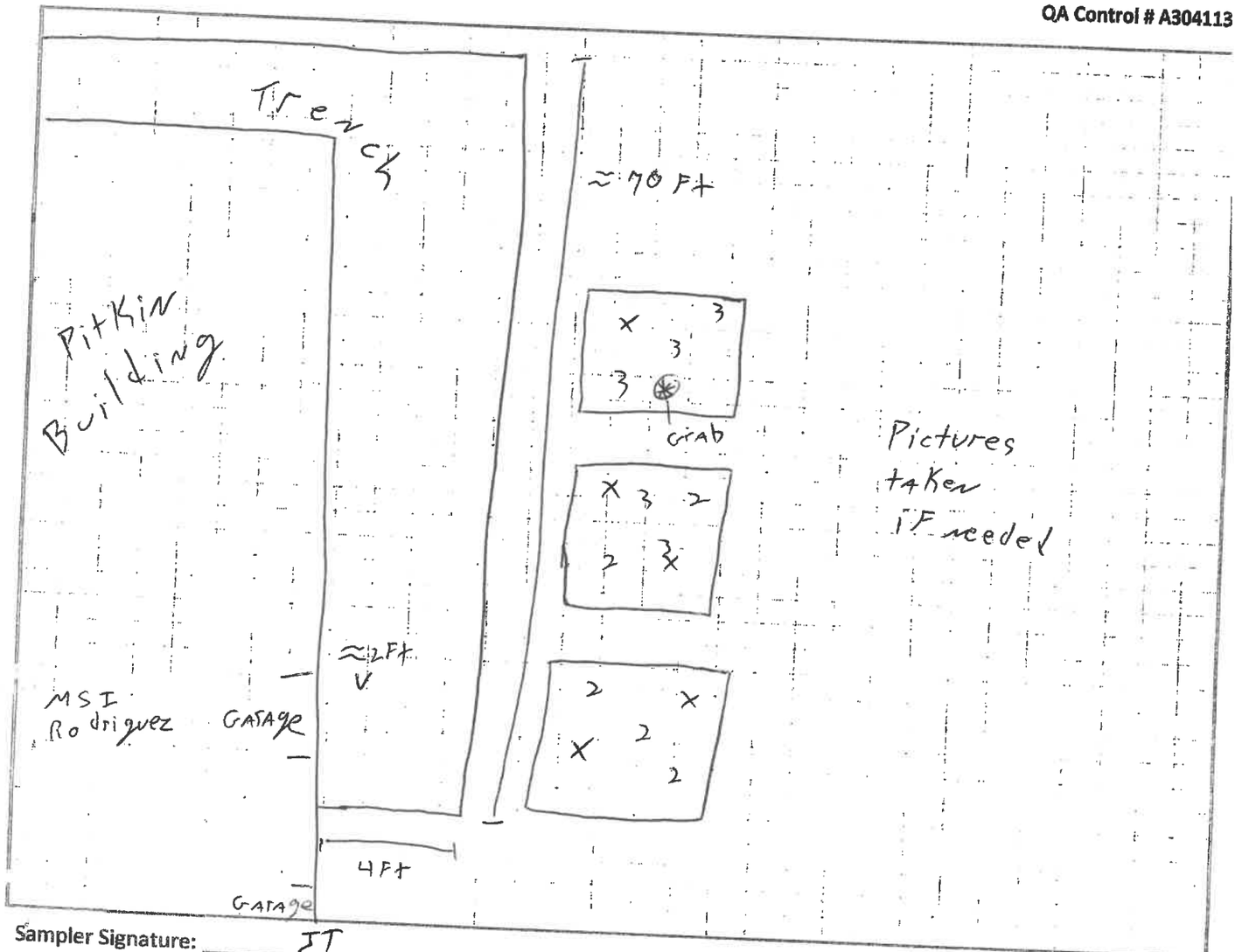
Chemtech Order ID:
Sampler Name: JT
Client Project Coordinator & Phone:
Page #: 1 of 1
Date: 10.28.24
Arrive Time: 800
Depart Time: 845

Waste Stream (circle one): drum / roll-off / soil pile / in-situ / linear construction / frac-tank
Sample Matrices (circle all that apply): Water / Solid / NAPL / Concrete / Wipe

Collection Depths: NA
Dimensions/CY: NA
Temp (range): °C PID Readings (range): 30.1 PPM Odor: Y / N Color: Y / N
Sample Description: Brown soil, a little Rocky
Field Observations: Sample taken From storage bags next to excavation

Grid/Area Composite Map:

QA Control # A304113




Sampler Signature: JT
Client Signature:
Supervisor Review/Date:
Date/Time Arrived at Lab:

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Laboratory Certification

| Certified By | License No. |
|---|---|
| CAS EPA CLP Contract | 68HERH20D0011 |
| Connecticut | PH-0830 |
| DOD ELAP (L-A-B) | L2219 |
| Maine | 2024021 |
| Maryland | 296 |
| New Hampshire | 255423 |
| New Jersey | 20012 |
| New York | 11376 |
| Pennsylvania | 68-00548 |
| Soil Permit | 525-24-234-08441 |
| Texas | T104704488 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** P4595 TULL02
**Client Name :** Tully Construction Co., Inc.
**Client Contact :** Dean Devoe
**Invoice Name :** Tully Construction Co., Inc.
**Invoice Contact :** Dean Devoe

**Order Date :** 10/28/2024 11:31:00 AM
**Project Name :** ~~Liberty Ave & 76th St~~ Pitkin Yard.
**Receive DateTime :** 10/28/2024 12:00:00 AM
**Purchase Order :**

**Project Mgr :**
**Report Type :** Level 1
**EDD Type :** Excel NY 375
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| P4595-05 | PITKIN-GRAB | Solid | 10/28/2024 | 08:29 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 5 Bus. Days |

**Relinguished By :** JT
**Date / Time :** 10-28-24 1215

**Received By :**
**Date / Time :** 10.28.24 12:15

**Storage Area :** VOA Refridgerator Room