

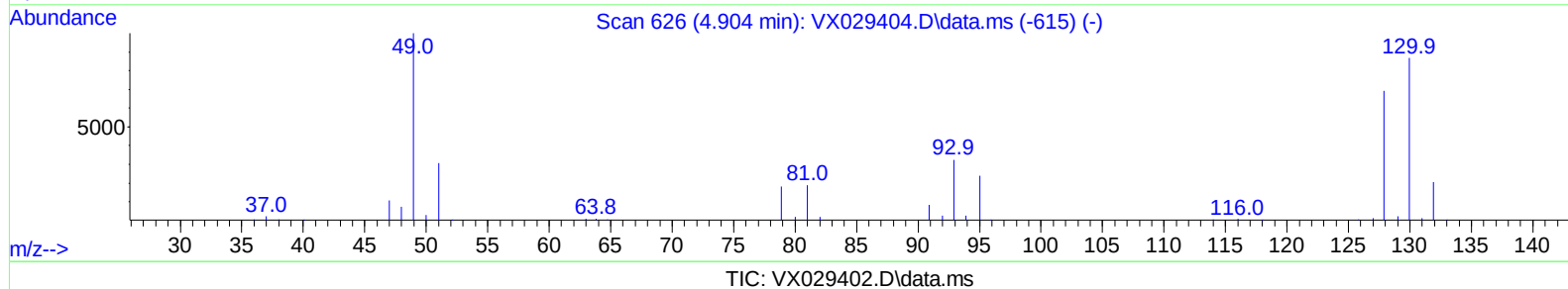
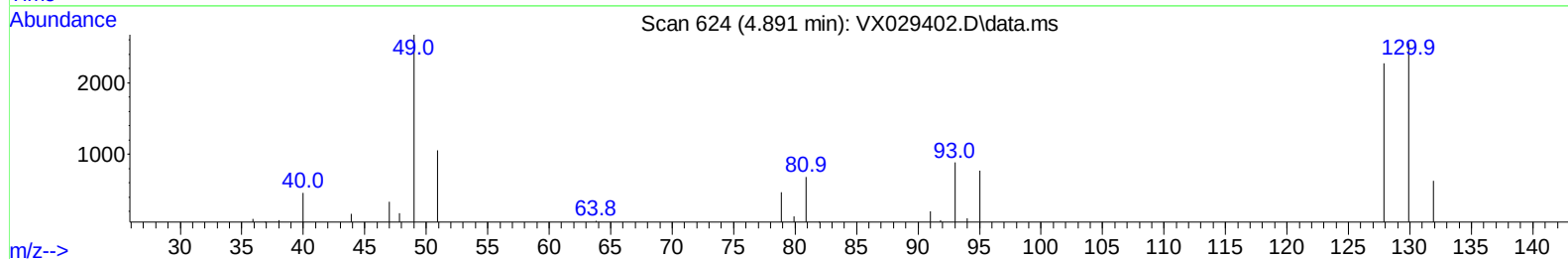
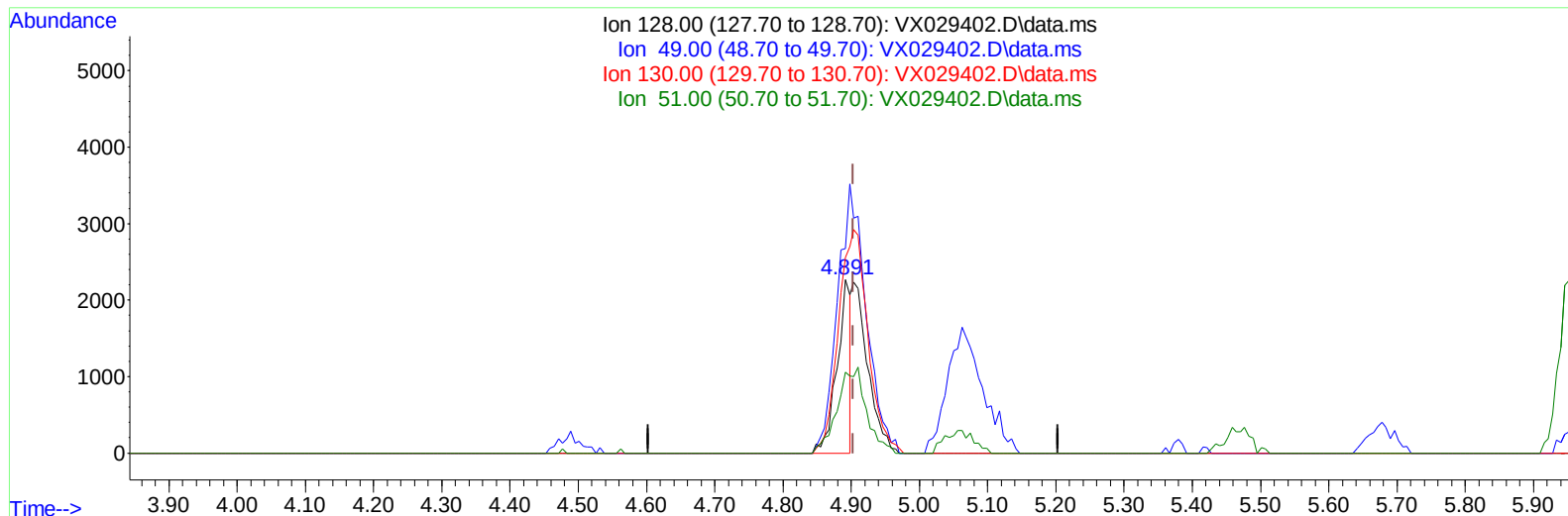
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061322\  
Data File : VX029402.D  
Acq On : 13 Jun 2022 10:14  
Operator : JC/MD  
Sample : VSTD00566  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTD005666

## Manual IntegrationsAPPROVED

Reviewed By :John Carlone 06/14/2022  
Supervised By :Mahesh Dadoda 06/15/2022

Quant Time: Jun 17 02:06:39 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML061322WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Jun 15 07:14:08 2022  
Response via : Initial Calibration

**(23) Bromochloromethane (T)**

4.891min (-0.012) 1.98 ug/L

response 3100

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 128.00 | 100.00 | 100.00 |
| 49.00  | 157.40 | 117.76 |
| 130.00 | 126.00 | 112.78 |
| 51.00  | 48.80  | 46.54  |

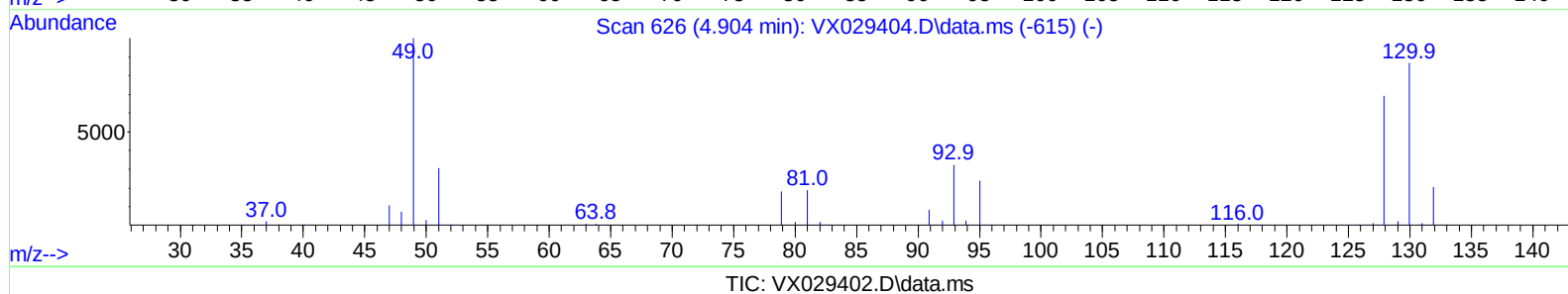
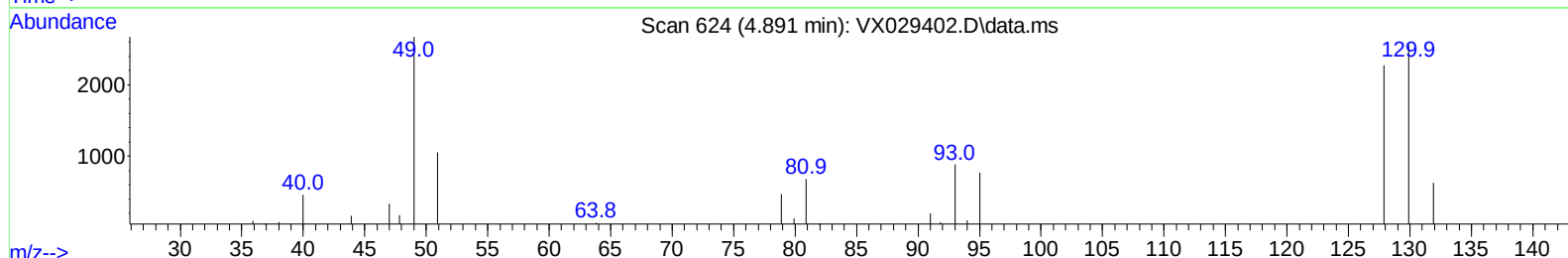
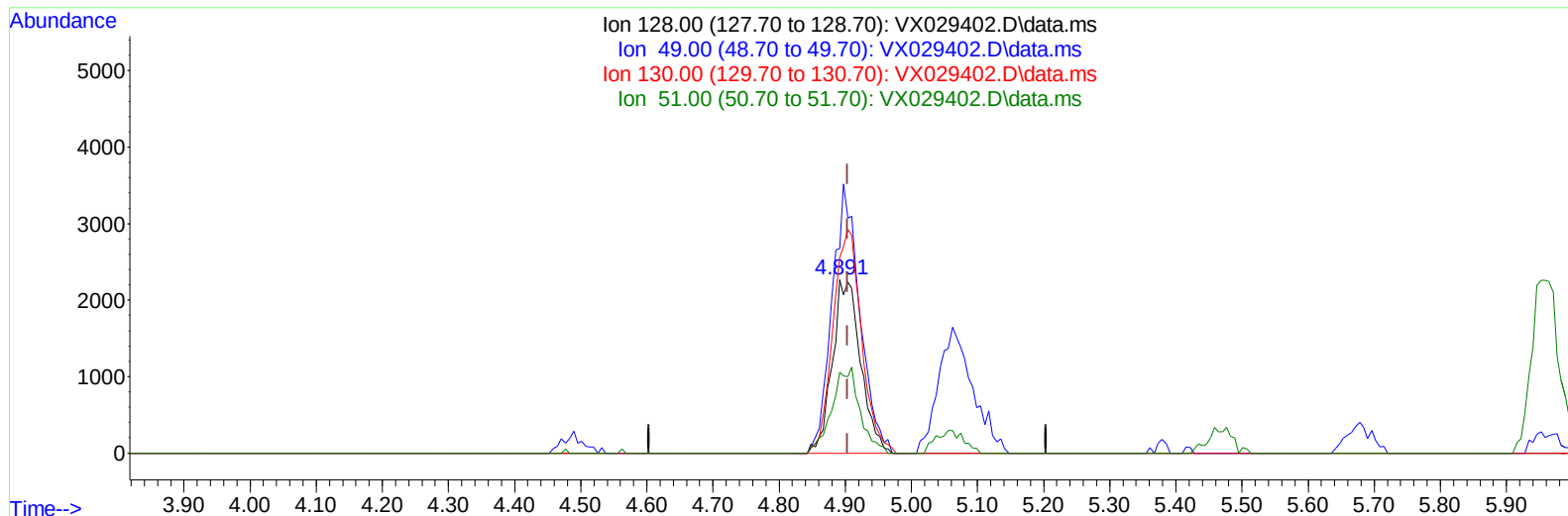
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061322\  
Data File : VX029402.D  
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Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTD005666

## Manual IntegrationsAPPROVED

Reviewed By :John Carlone 06/14/2022  
Supervised By :Mahesh Dadoda 06/15/2022

Quant Time: Jun 13 12:08:43 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXMLM061322WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Jun 13 12:07:22 2022  
Response via : Initial Calibration

**(23) Bromochloromethane (T)**

4.891min (-0.012) 4.09 ug/L m

response 6730

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 128.00 | 100.00 | 100.00 |
| 49.00  | 157.40 | 117.76 |
| 130.00 | 126.00 | 112.78 |
| 51.00  | 48.80  | 46.54  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061322\  
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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTD005666

Manual IntegrationsAPPROVED

Quant Time: Jun 13 12:08:43 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML061322WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Jun 13 12:07:22 2022  
 Response via : Initial Calibration

Reviewed By :John Carlone 06/14/2022  
 Supervised By :Mahesh Dadoda 06/15/2022

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| Internal Standards            |        |      |          |       |        |          |
| 1) 1,4-Difluorobenzene        | 6.763  | 114  | 384672   | 50.00 | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 10.055 | 117  | 341260   | 50.00 | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 12.024 | 152  | 166250   | 50.00 | ug/L   | 0.00     |
| System Monitoring Compounds   |        |      |          |       |        |          |
| 4) Vinyl Chloride-d3          | 1.368  | 65   | 14215    | 4.23  | ug/L   | 0.00     |
| 7) Chloroethane-d5            | 1.666  | 69   | 10089    | 4.74  | ug/L   | 0.00     |
| 11) 1,1-Dichloroethene-d2     | 2.307  | 63   | 25144    | 3.94  | ug/L   | 0.00     |
| 21) 2-Butanone-d5             | 4.471  | 46   | 19654    | 8.34  | ug/L   | 0.00     |
| 24) Chloroform-d              | 5.062  | 84   | 26241    | 4.15  | ug/L   | 0.00     |
| 26) 1,2-Dichloroethane-d4     | 5.958  | 65   | 18862    | 4.61  | ug/L   | 0.00     |
| 32) Benzene-d6                | 5.971  | 84   | 51560    | 4.29  | ug/L   | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 7.306  | 67   | 14567    | 4.08  | ug/L   | 0.00     |
| 41) Toluene-d8                | 8.647  | 98   | 50288    | 4.57  | ug/L   | 0.00     |
| 43) trans-1,3-Dichloroprop... | 8.958  | 79   | 6511     | 3.95  | ug/L   | 0.00     |
| 47) 2-Hexanone-d5             | 9.385  | 63   | 14521    | 9.04  | ug/L   | 0.00     |
| 56) 1,1,2,2-Tetrachloroeth... | 11.195 | 84   | 21851    | 4.94  | ug/L   | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 12.323 | 152  | 16361    | 4.36  | ug/L   | 0.00     |
| Target Compounds              |        |      |          |       |        |          |
|                               |        |      |          |       |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.167  | 85   | 16794    | 4.01  | ug/L   | 98       |
| 3) Chloromethane              | 1.288  | 50   | 16434    | 4.84  | ug/L   | 95       |
| 5) Vinyl chloride             | 1.374  | 62   | 14898    | 4.38  | ug/L   | 97       |
| 6) Bromomethane               | 1.618  | 94   | 7223     | 4.88  | ug/L   | 92       |
| 8) Chloroethane               | 1.691  | 64   | 8809     | 4.73  | ug/L   | 87       |
| 9) Trichlorofluoromethane     | 1.886  | 101  | 21560    | 4.50  | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.331  | 101  | 12664    | 4.21  | ug/L   | 95       |
| 12) 1,1-Dichloroethene        | 2.319  | 96   | 11293    | 4.08  | ug/L   | 93       |
| 13) Acetone                   | 2.392  | 43   | 15170    | 7.78  | ug/L   | 98       |
| 14) Carbon disulfide          | 2.514  | 76   | 30632    | 3.78  | ug/L   | 97       |
| 15) Methyl Acetate            | 2.709  | 43   | 12788    | 4.04  | ug/L   | 92       |
| 16) Methylene chloride        | 2.788  | 84   | 12890    | 4.24  | ug/L   | 92       |
| 17) trans-1,2-Dichloroethene  | 3.093  | 96   | 12325    | 4.20  | ug/L   | 92       |
| 18) Methyl tert-butyl Ether   | 3.117  | 73   | 39941    | 4.35  | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.611  | 63   | 21237    | 4.05  | ug/L   | 97       |
| 20) cis-1,2-Dichloroethene    | 4.489  | 96   | 13669    | 4.22  | ug/L   | 91       |
| 22) 2-Butanone                | 4.568  | 43   | 19356    | 7.48  | ug/L   | 97       |
| 23) Bromochloromethane        | 4.891  | 128  | 6730m    | 4.09  | ug/L   |          |
| 25) Chloroform                | 5.093  | 83   | 23845    | 4.23  | ug/L   | 97       |
| 27) 1,2-Dichloroethane        | 6.086  | 62   | 18051    | 4.13  | ug/L # | 94       |
| 29) Cyclohexane               | 5.471  | 56   | 20855    | 4.35  | ug/L   | 93       |
| 30) 1,1,1-Trichloroethane     | 5.385  | 97   | 21781    | 4.68  | ug/L   | 95       |
| 31) Carbon tetrachloride      | 5.678  | 117  | 16397    | 4.04  | ug/L   | 96       |
| 33) Benzene                   | 6.038  | 78   | 49601    | 4.34  | ug/L   | 100      |
| 34) Trichloroethene           | 7.123  | 95   | 27778    | 8.39  | ug/L   | 95       |
| 35) Methylcyclohexane         | 7.385  | 83   | 21963    | 4.44  | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 7.428  | 63   | 11680    | 4.06  | ug/L # | 88       |
| 38) Bromodichloromethane      | 7.824  | 83   | 16639    | 4.28  | ug/L   | 97       |
| 39) cis-1,3-Dichloropropene   | 8.366  | 75   | 18010    | 4.15  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 8.574  | 43   | 35262    | 8.62  | ug/L   | 96       |
| 42) Toluene                   | 8.720  | 91   | 53290    | 4.32  | ug/L   | 95       |

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 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTD005666

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 Supervised By : Mahesh Dadoda 06/15/2022

Quant Time: Jun 13 12:08:43 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML061322WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Jun 13 12:07:22 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|------|-------|----------|
| 44) trans-1,3-Dichloropropene | 8.982  | 75   | 16422    | 4.03 | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane     | 9.153  | 97   | 13113    | 4.63 | ug/L  | 94       |
| 46) Tetrachloroethene         | 9.275  | 164  | 9980     | 4.17 | ug/L  | 92       |
| 48) 2-Hexanone                | 9.433  | 43   | 27355    | 8.33 | ug/L  | 95       |
| 49) Dibromochloromethane      | 9.525  | 129  | 12723    | 4.13 | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 9.610  | 107  | 13310    | 4.45 | ug/L  | 96       |
| 51) Chlorobenzene             | 10.080 | 112  | 32880    | 4.19 | ug/L  | 92       |
| 52) Ethylbenzene              | 10.195 | 91   | 56325    | 4.22 | ug/L  | 98       |
| 53) m,p-Xylene                | 10.299 | 106  | 22120    | 4.22 | ug/L  | 96       |
| 54) o-Xylene                  | 10.640 | 106  | 21817    | 4.32 | ug/L  | 96       |
| 55) Styrene                   | 10.659 | 104  | 34426    | 4.02 | ug/L  | 95       |
| 57) 1,1,2,2-Tetrachloroethane | 11.214 | 83   | 19485    | 4.97 | ug/L  | 96       |
| 59) Bromoform                 | 10.799 | 173  | 7311     | 3.71 | ug/L  | 97       |
| 60) Isopropylbenzene          | 10.964 | 105  | 58856    | 4.65 | ug/L  | 98       |
| 61) 1,2,3-Trichloropropane    | 11.238 | 75   | 16462    | 4.92 | ug/L  | 97       |
| 62) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 48415    | 5.28 | ug/L  | 97       |
| 63) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 48264    | 4.55 | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.969 | 146  | 23143    | 4.18 | ug/L  | 96       |
| 65) 1,4-Dichlorobenzene       | 12.043 | 146  | 23965    | 4.30 | ug/L  | 97       |
| 67) 1,2-Dichlorobenzene       | 12.335 | 146  | 24266    | 4.49 | ug/L  | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.945 | 75   | 3978     | 4.74 | ug/L  | 85       |
| 69) 1,3,5-Trichlorobenzene    | 13.116 | 180  | 14862    | 3.89 | ug/L  | 95       |
| 70) 1,2,4-trichlorobenzene    | 13.591 | 180  | 13596    | 4.04 | ug/L  | 97       |
| 71) Naphthalene               | 13.774 | 128  | 48930    | 4.25 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 14209    | 4.20 | ug/L  | 94       |

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

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Quant Time: Jun 13 12:08:43 2022  
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Quant Title : VOC Analysis  
QLast Update : Mon Jun 13 12:07:22 2022  
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