

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL121724\  
 Data File : VL041781.D  
 Acq On : 17 Dec 2024 16:17  
 Operator : SY/MD  
 Sample : MDL 0.03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL 0.03

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024  
 Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 21 03:06:13 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL121624AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_LFri Aug 2  
 QLast Update : Thu Dec 19 07:32:09 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.790  | 49    | 51238    | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.962  | 114   | 131572   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.888  | 117   | 111343   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.383 | 95    | 93730    | 10.102   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 101.000% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.580  | 62    | 145      | 0.040    | ppbv # | 87       |
| 32) 1,1,1-Trichloroethane     | 3.373  | 97    | 359      | 0.033    | ppbv # | 67       |
| 35) Carbon Tetrachloride      | 3.780  | 117   | 337m     | 0.036    | ppbv   |          |
| 38) Trichloroethene           | 4.564  | 130   | 82m      | 0.014    | ppbv   |          |
| 52) Tetrachloroethene         | 8.221  | 164   | 156m     | 0.031    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.962  | 83    | 390m     | 0.039    | ppbv   |          |
| -----                         |        |       |          |          |        |          |

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

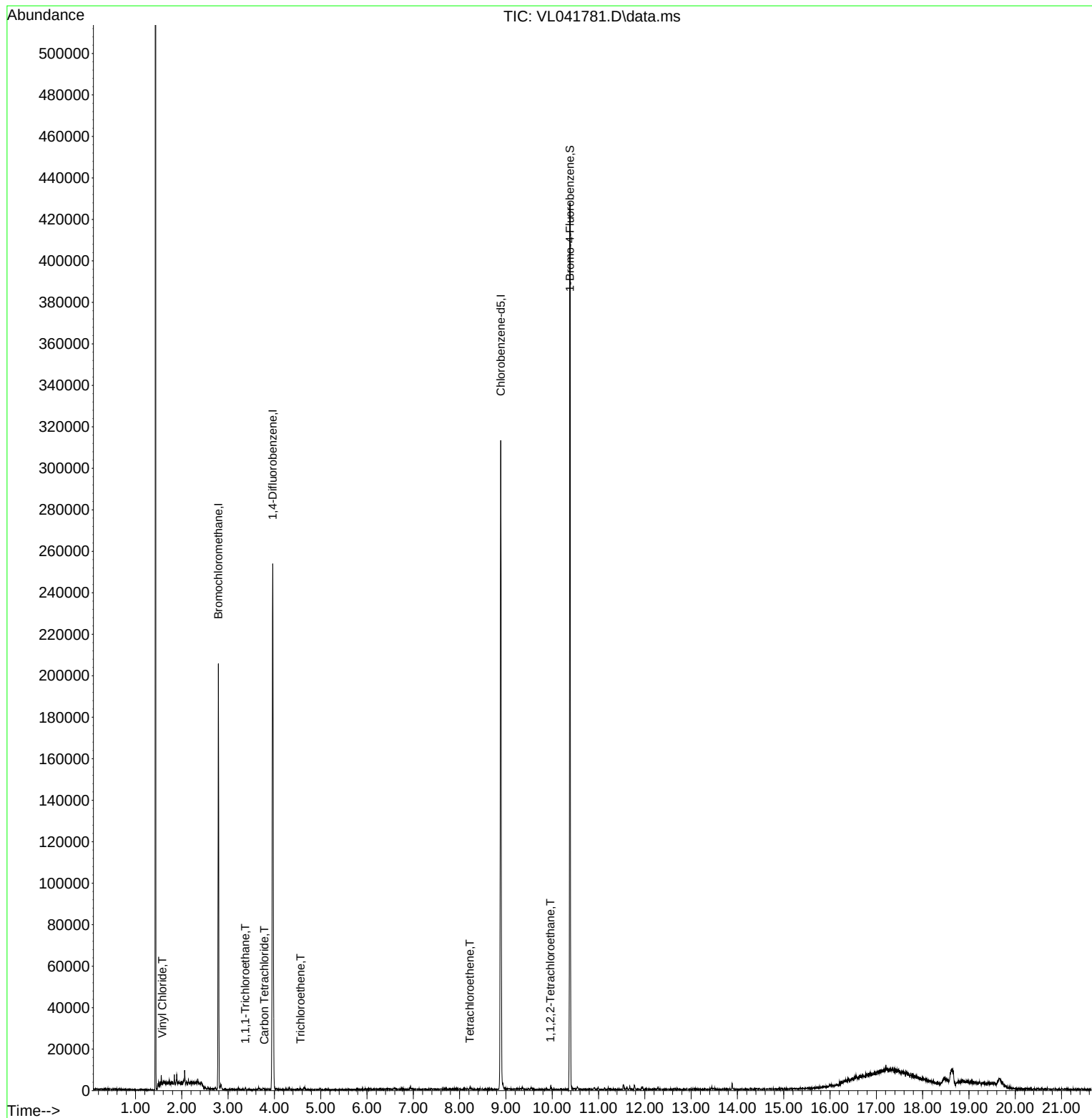
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL121724\  
Data File : VL041781.D  
Acq On : 17 Dec 2024 16:17  
Operator : SY/MD  
Sample : MDL 0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

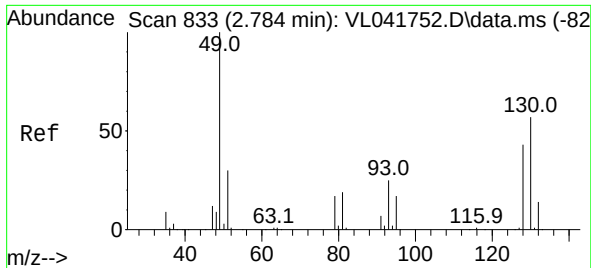
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL 0.03

Quant Time: Dec 21 03:06:13 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL121624AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Thu Dec 19 07:32:09 2024  
Response via : Initial Calibration

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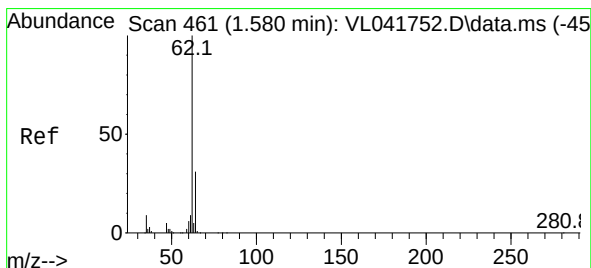
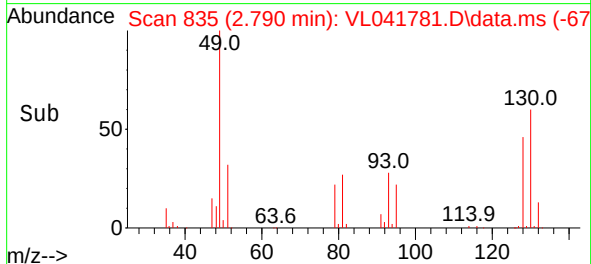
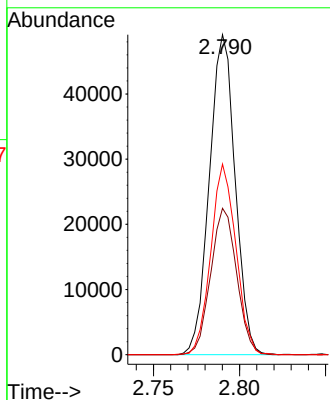
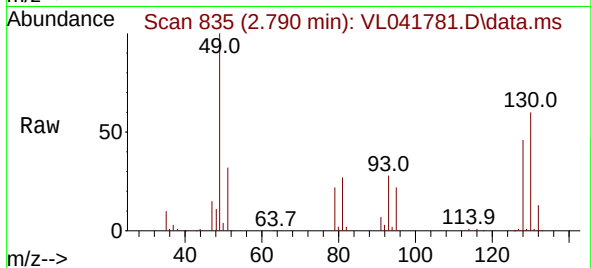
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 833  
Delta R.T. 0.006 min  
Lab File: VL041781.D  
Acq: 17 Dec 2024 16:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL 0.03

Tgt Ion: 49 Resp: 51238  
Ion Ratio Lower Upper  
49 100  
128 46.0 21.6 64.6  
130 57.8 28.3 85.0

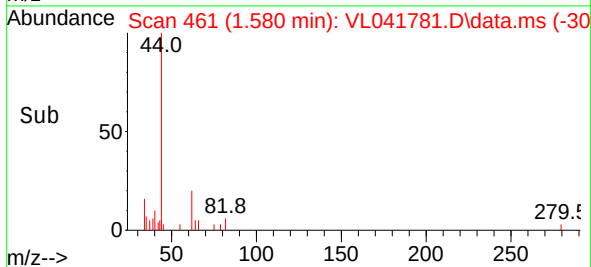
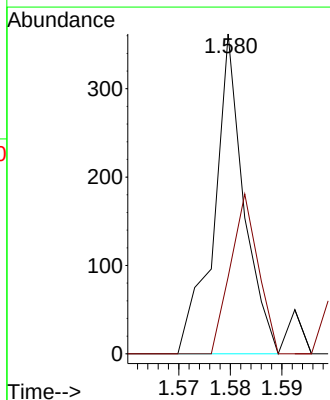
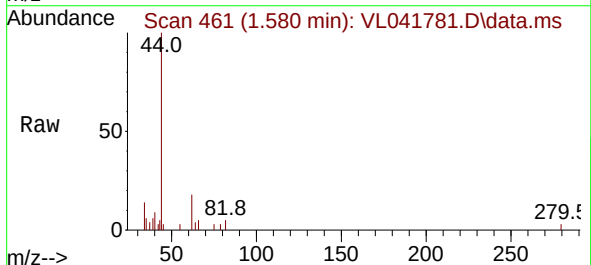
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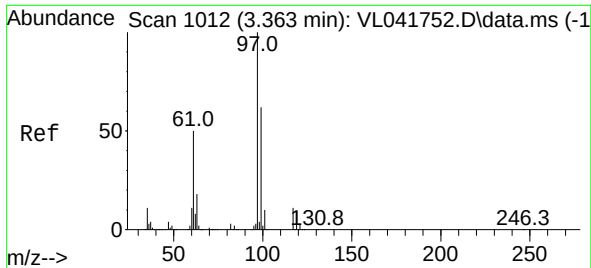
Reviewed By :Mahesh Dadoda 12/18/2024  
Supervised By :Semsettin Yesilyurt 12/18/2024



#5  
Vinyl Chloride  
Concen: 0.040 ppbv  
RT: 1.580 min Scan# 461  
Delta R.T. -0.000 min  
Lab File: VL041781.D  
Acq: 17 Dec 2024 16:17

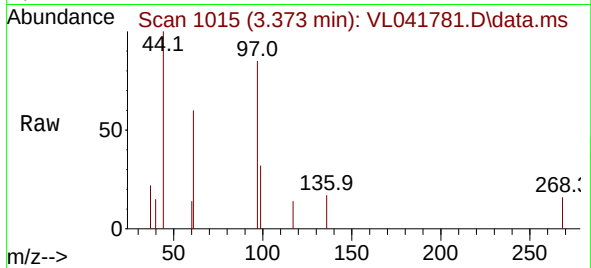
Tgt Ion: 62 Resp: 145  
Ion Ratio Lower Upper  
62 100  
64 24.0 25.1 37.7#





#32  
1,1,1-Trichloroethane  
Concen: 0.033 ppbv  
RT: 3.373 min Scan# 1015  
Delta R.T. 0.009 min  
Lab File: VL041781.D  
Acq: 17 Dec 2024 16:17

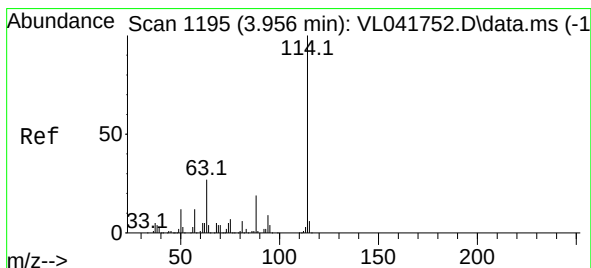
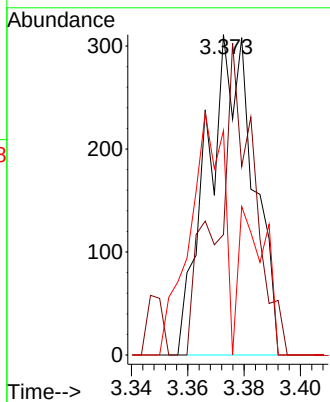
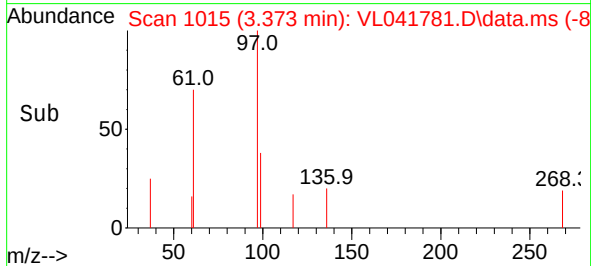
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL 0.03



Tgt Ion: 97 Resp: 359  
Ion Ratio Lower Upper  
97 100  
99 85.2 51.0 76.4  
61 80.8 42.2 63.2

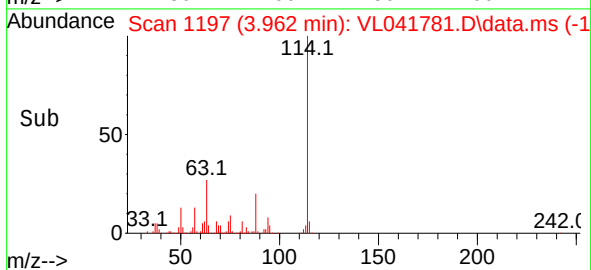
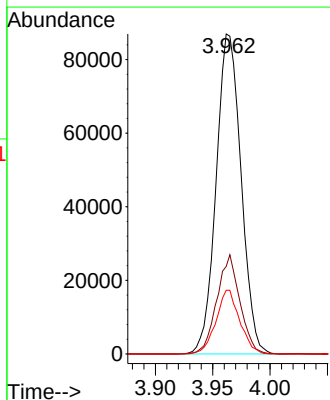
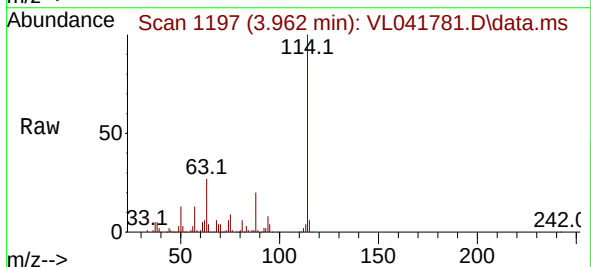
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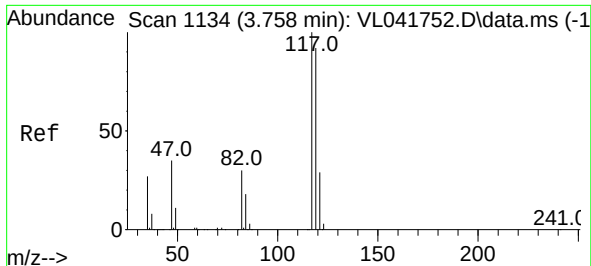
Reviewed By :Mahesh Dadoda 12/18/2024  
Supervised By :Semsettin Yesilyurt 12/18/2024



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. 0.006 min  
Lab File: VL041781.D  
Acq: 17 Dec 2024 16:17

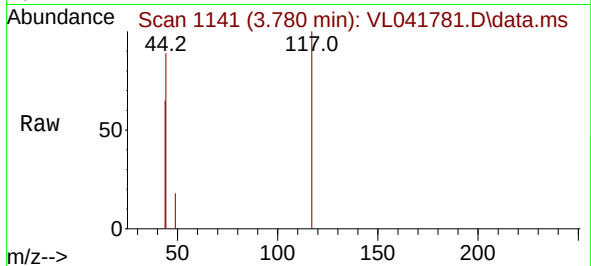
Tgt Ion:114 Resp: 131572  
Ion Ratio Lower Upper  
114 100  
63 28.7 21.8 32.8  
88 18.9 14.8 22.2





#35  
Carbon Tetrachloride  
Concen: 0.036 ppbv m  
RT: 3.780 min Scan# 1134  
Delta R.T. 0.022 min  
Lab File: VL041781.D  
Acq: 17 Dec 2024 16:17

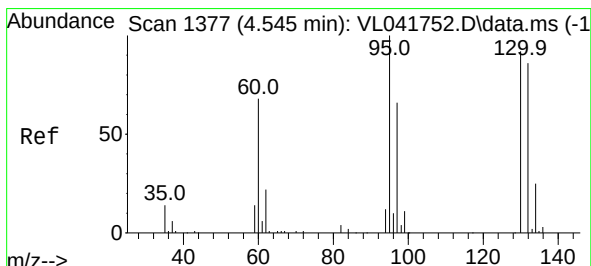
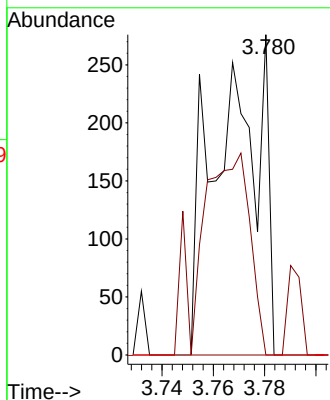
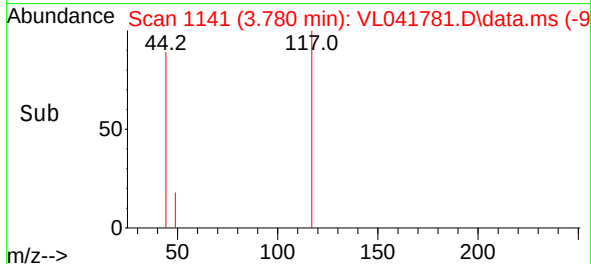
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL 0.03



Tgt Ion:117 Resp: 337  
Ion Ratio Lower Upper  
117 100  
119 0.0 73.7 110.5#  
121 0.0 23.0 34.4#

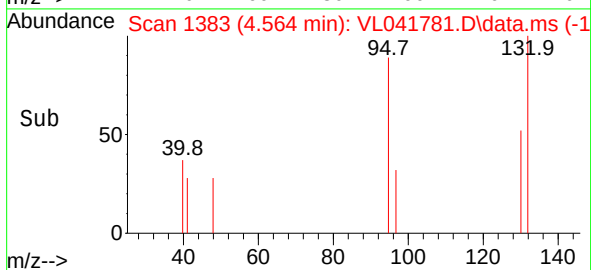
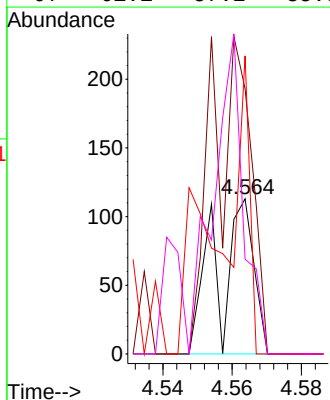
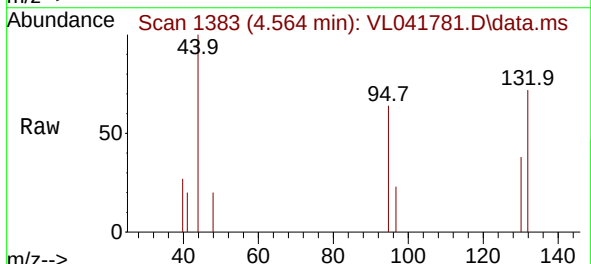
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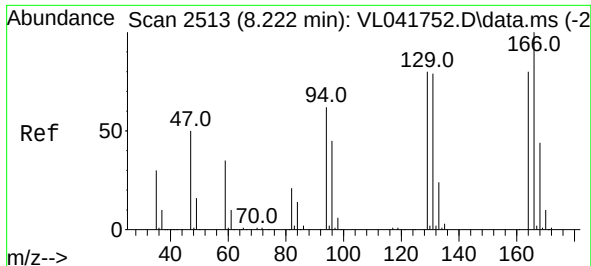
Reviewed By :Mahesh Dadoda 12/18/2024  
Supervised By :Semsettin Yesilyurt 12/18/2024



#38  
Trichloroethene  
Concen: 0.014 ppbv m  
RT: 4.564 min Scan# 1383  
Delta R.T. 0.019 min  
Lab File: VL041781.D  
Acq: 17 Dec 2024 16:17

Tgt Ion:130 Resp: 82  
Ion Ratio Lower Upper  
130 100  
95 170.8 87.0 130.6#  
132 192.0 75.0 112.6#  
97 61.1 57.2 85.8





#52

Tetrachloroethene

Concen: 0.031 ppbv m

RT: 8.221 min Scan# 2513

Delta R.T. -0.000 min

Lab File: VL041781.D

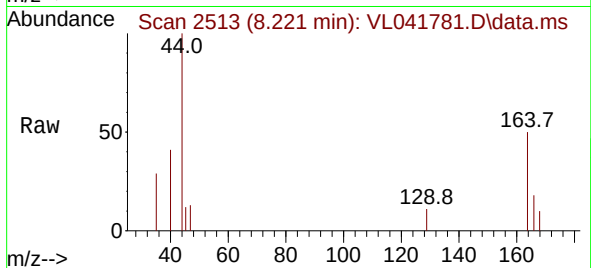
Acq: 17 Dec 2024 16:17

Instrument :

MSVOA\_L

ClientSampleId :

MDL 0.03



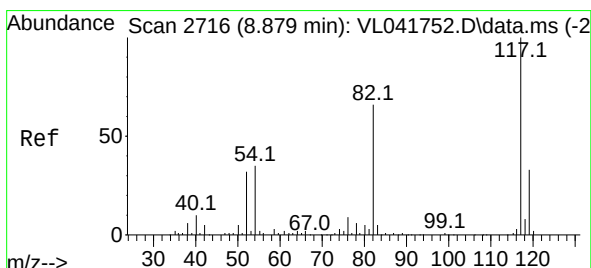
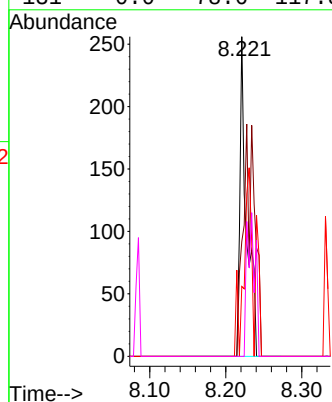
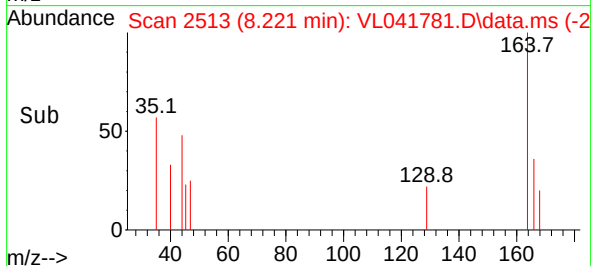
Tgt Ion:164 Resp: 150

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 35.9  | 99.8  | 149.6 |
| 129 | 21.9  | 79.6  | 119.4 |
| 131 | 0.0   | 78.6  | 117.8 |

Manual Integrations

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2719

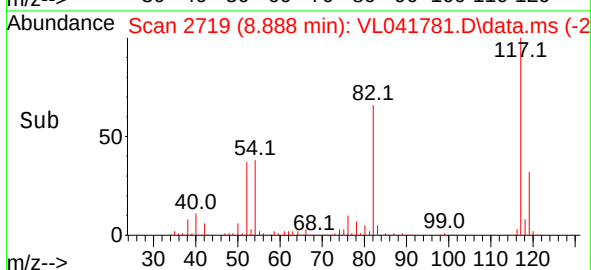
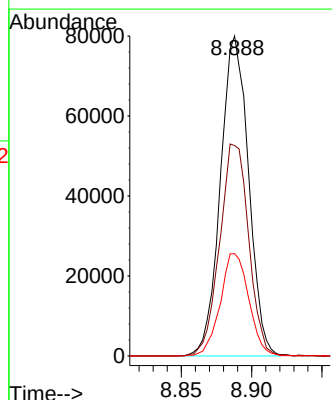
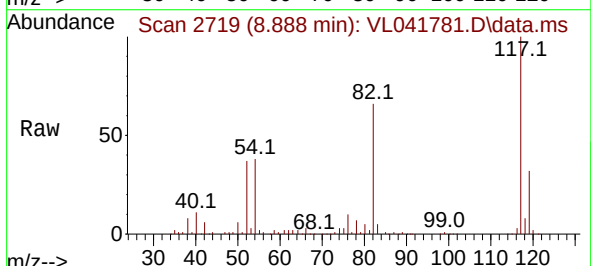
Delta R.T. 0.009 min

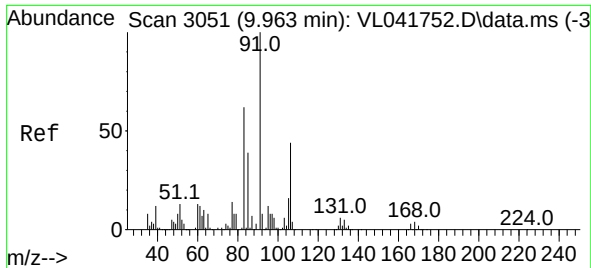
Lab File: VL041781.D

Acq: 17 Dec 2024 16:17

Tgt Ion:117 Resp: 111343

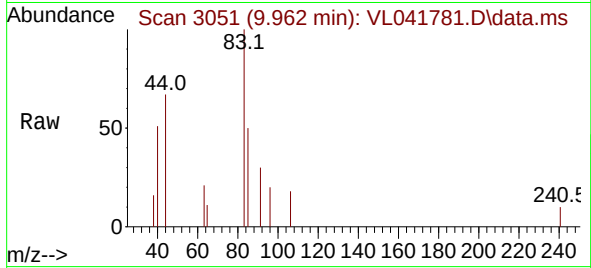
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 68.5  | 53.8  | 80.8  |
| 119 | 32.7  | 26.7  | 40.1  |





#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.039 ppbv m  
RT: 9.962 min Scan# 3051  
Delta R.T. -0.000 min  
Lab File: VL041781.D  
Acq: 17 Dec 2024 16:17

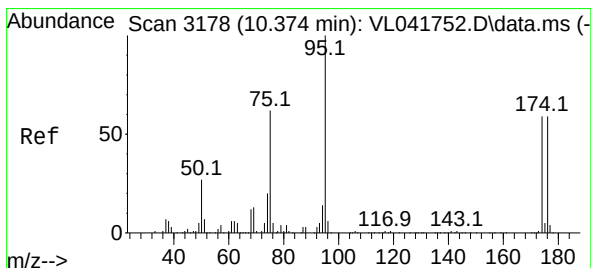
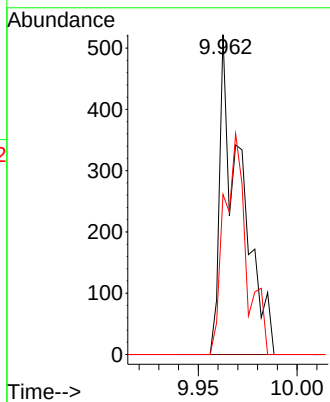
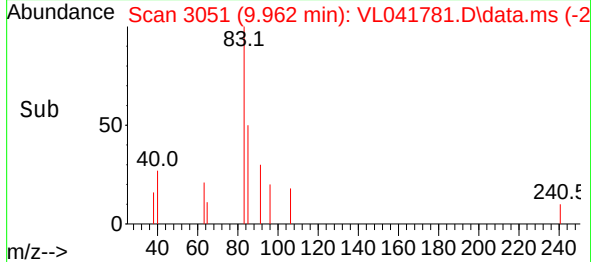
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL 0.03



Tgt Ion: 83 Resp: 390  
Ion Ratio Lower Upper  
83 100  
131 0.0 4.9 14.7  
85 72.6 32.0 96.2

Manual Integrations  
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Supervised By :Semsettin Yesilyurt 12/18/2024



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.102 ppbv  
RT: 10.383 min Scan# 3181  
Delta R.T. 0.009 min  
Lab File: VL041781.D  
Acq: 17 Dec 2024 16:17

Tgt Ion: 95 Resp: 93730  
Ion Ratio Lower Upper  
95 100  
174 57.3 47.6 71.4  
175 4.2 3.7 5.5

