

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW041124\
 Data File : VW035129.D
 Acq On : 11 Apr 2024 17:21
 Operator : SY/MD
 Sample : P2056-01
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 12 01:21:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR040224WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Apr 12 01:20:53 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	5.539	114	78097	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.786	117	82112	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.188	152	38150	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	24144	3.751	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	75.000%
7) Chloroethane-d5	1.532	69	23265	4.384	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.600%
11) 1,1-Dichloroethene-d2	2.050	65	12540	4.290	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	85.800%
20) 2-Butanone-d5	3.831	46	88216	87.599	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	175.200%#
24) Chloroform-d	4.249	84	47499	4.561	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.200%
26) 1,2-Dichloroethane-d4	4.947	65	28705	6.103	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	122.000%
32) Benzene-d6	4.960	84	95417	4.442	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.800%
36) 1,2-Dichloropropane-d6	5.992	67	32032	5.081	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.600%
41) Toluene-d8	7.246	98	76580	3.925	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.400%
43) trans-1,3-Dichloroprop...	7.568	79	11228	5.014	ug/L	0.01
Spiked Amount	5.000	Range	55 - 130	Recovery	=	100.200%
46) 2-Hexanone-d5	8.047	63	56894	74.021	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	148.040%#
56) 1,1,2,2-Tetrachloroeth...	10.156	84	31547	7.172	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	143.400%#
66) 1,2-Dichlorobenzene-d4	11.564	152	29473	4.905	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.000%
Target Compounds						
					Qvalue	
13) Acetone	2.147	43	13798	18.783	ug/L	88
15) Methyl Acetate	2.384	43	57526	28.371	ug/L	99
16) Methylene chloride	2.442	84	17708	2.722	ug/L	91
17) Methyl tert-butyl Ether	2.709	73	2304	0.180	ug/L	93
35) Methylcyclohexane	5.995	83	7020	0.704	ug/L #	19
40) 4-Methyl-2-pentanone	7.188	43	2590	0.881	ug/L #	74
47) Tetrachloroethene	7.902	164	279733	56.845	ug/L	97
48) 2-Hexanone	8.101	43	12131	5.464	ug/L #	64
49) Dibromochloromethane	7.902	129	245752	48.751	ug/L #	9
50) 1,2-Dibromoethane	8.297	107	648	0.161	ug/L #	75
51) Chlorobenzene	8.822	112	3587	0.210	ug/L #	84
57) 1,1,2,2-Tetrachloroethane	10.178	83	1684	0.329	ug/L #	88
59) Bromoform	9.670	173	320	0.135	ug/L #	71
61) 1,2,3-Trichloropropane	10.220	75	1484	0.417	ug/L #	80
64) 1,3-Dichlorobenzene	11.133	146	1732	0.142	ug/L	96
65) 1,4-Dichlorobenzene	11.214	146	6297	0.517	ug/L	97
67) 1,2-Dichlorobenzene	11.583	146	3890	0.346	ug/L	95
68) 1,2-Dibromo-3-chloropr...	12.371	75	375	0.512	ug/L #	72
69) 1,3,5-Trichlorobenzene	12.590	180	1476	0.162	ug/L	96

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Apr 12 01:20:53 2024
Response via : Initial Calibration

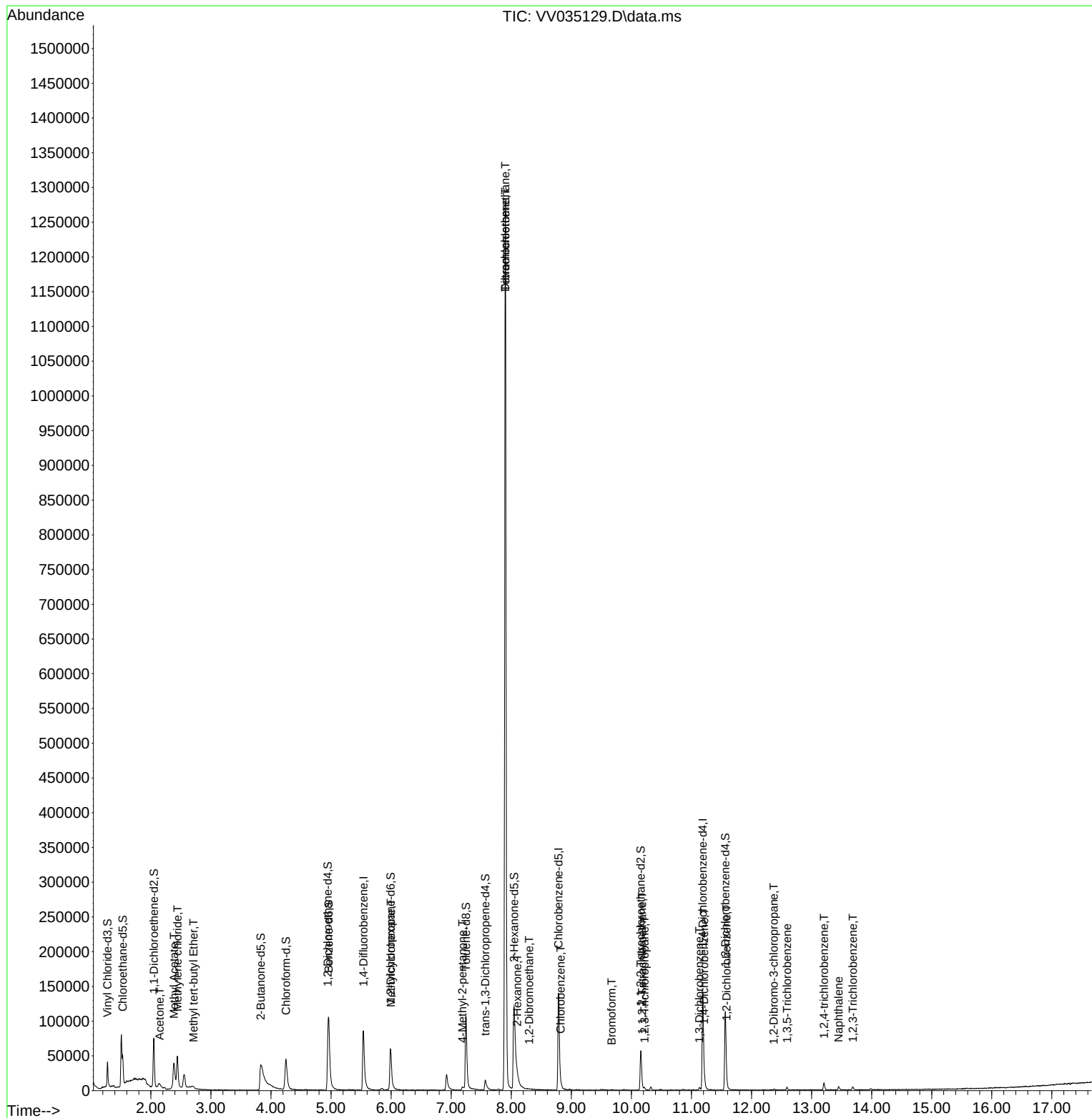
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 1,2,4-trichlorobenzene	13.207	180	3484	0.491	ug/L	94
71) Naphthalene	13.452	128	4665	0.468	ug/L #	86
72) 1,2,3-Trichlorobenzene	13.686	180	1565	0.251	ug/L	94

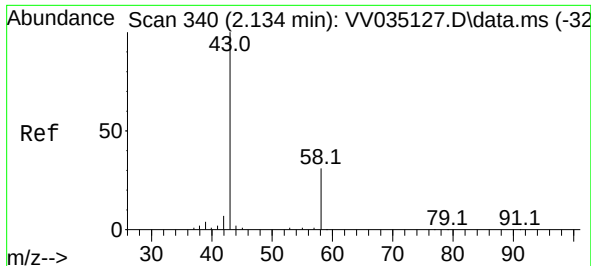
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 18.783 ug/L

RT: 2.147 min Scan# 340

Delta R.T. 0.013 min

Lab File: VV035129.D

Acq: 11 Apr 2024 17:21

Instrument :

MSVOA_V

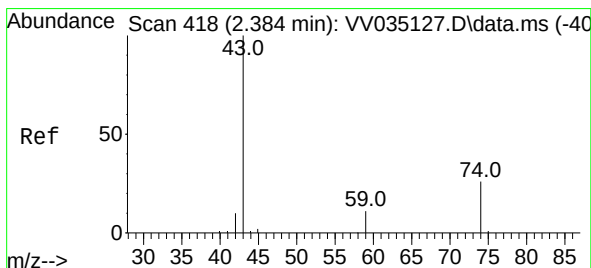
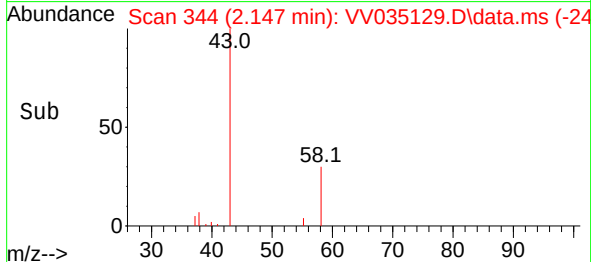
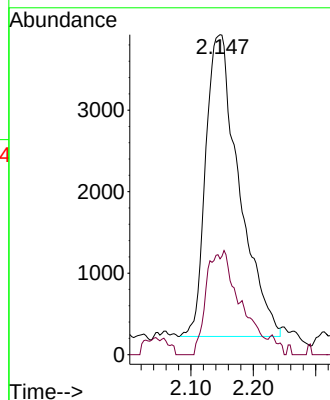
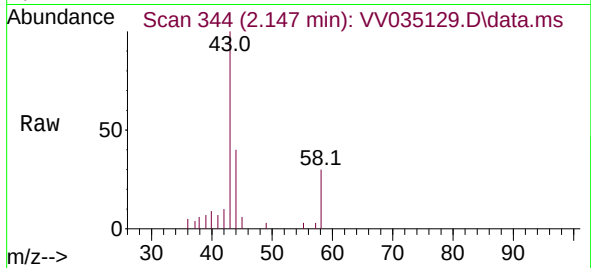
ClientSampleId :

Tgt Ion: 43 Resp: 13798

Ion Ratio Lower Upper

43 100

58 14.6 0.0 40.8



#15

Methyl Acetate

Concen: 28.371 ug/L

RT: 2.384 min Scan# 418

Delta R.T. 0.000 min

Lab File: VV035129.D

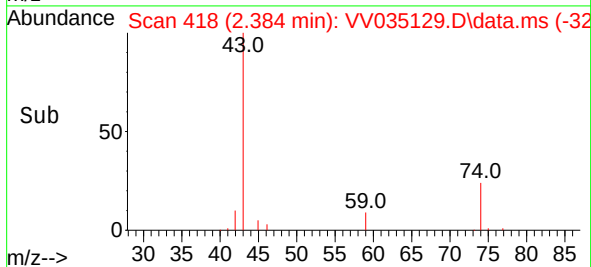
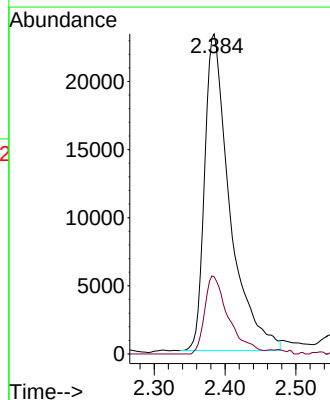
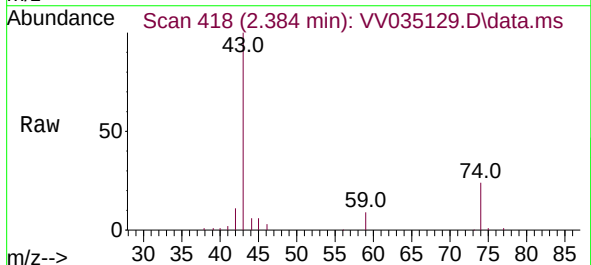
Acq: 11 Apr 2024 17:21

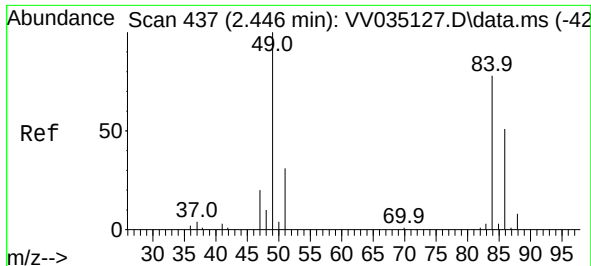
Tgt Ion: 43 Resp: 57526

Ion Ratio Lower Upper

43 100

74 23.4 18.5 27.7

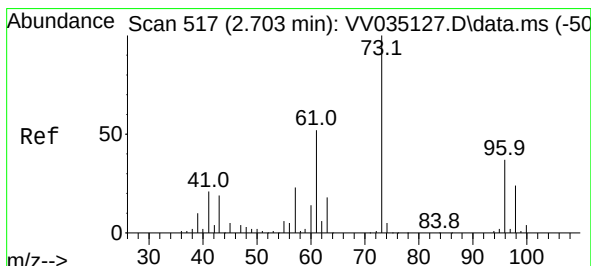
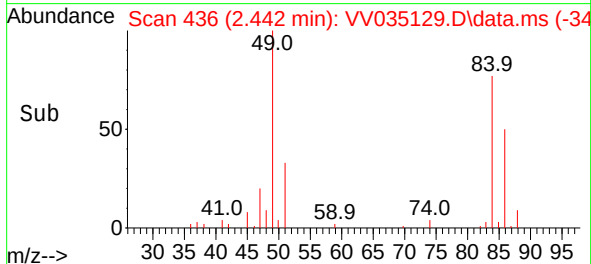
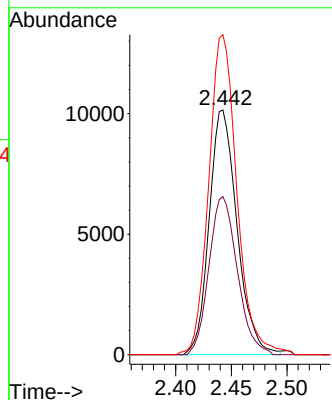
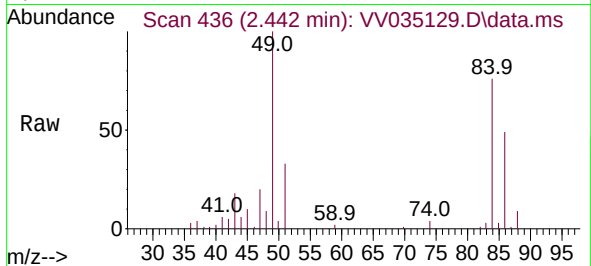




#16
Methylene chloride
Concen: 2.722 ug/L
RT: 2.442 min Scan# 41
Delta R.T. -0.003 min
Lab File: VV035129.D
Acq: 11 Apr 2024 17:21

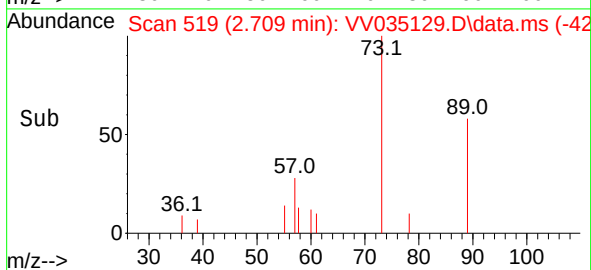
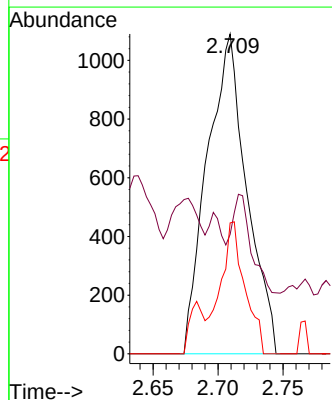
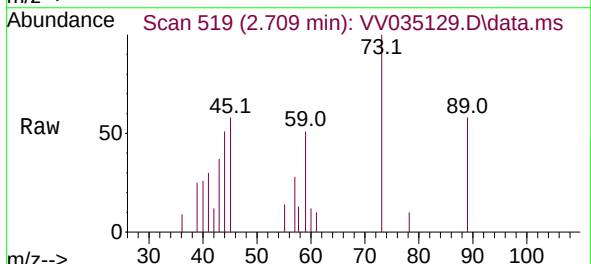
Instrument :
MSVOA_V
ClientSampleId :

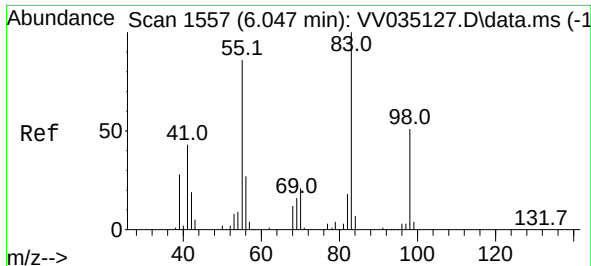
Tgt Ion: 84 Resp: 17708
Ion Ratio Lower Upper
84 100
86 64.6 43.5 80.9
49 130.8 82.5 153.3



#17
Methyl tert-butyl Ether
Concen: 0.180 ug/L
RT: 2.709 min Scan# 519
Delta R.T. 0.006 min
Lab File: VV035129.D
Acq: 11 Apr 2024 17:21

Tgt Ion: 73 Resp: 2304
Ion Ratio Lower Upper
73 100
43 15.1 14.8 22.2
57 25.6 18.1 27.1





#35

Methylcyclohexane

Concen: 0.704 ug/L

RT: 5.995 min Scan# 1

Delta R.T. -0.051 min

Lab File: VV035129.D

Acq: 11 Apr 2024 17:21

Instrument :

MSVOA_V

ClientSampleId :

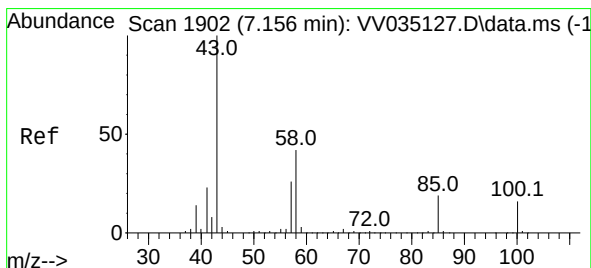
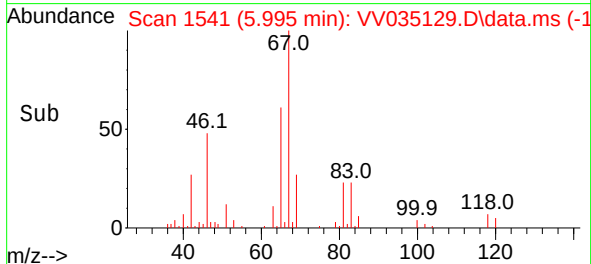
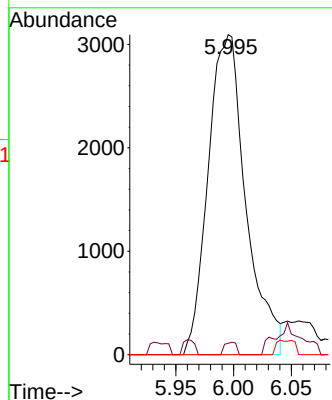
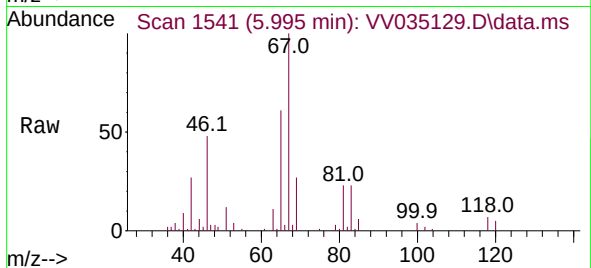
Tgt Ion: 83 Resp: 7020

Ion Ratio Lower Upper

83 100

55 1.2 60.6 91.0#

98 0.0 37.8 56.6#



#40

4-Methyl-2-pentanone

Concen: 0.881 ug/L

RT: 7.188 min Scan# 1912

Delta R.T. 0.032 min

Lab File: VV035129.D

Acq: 11 Apr 2024 17:21

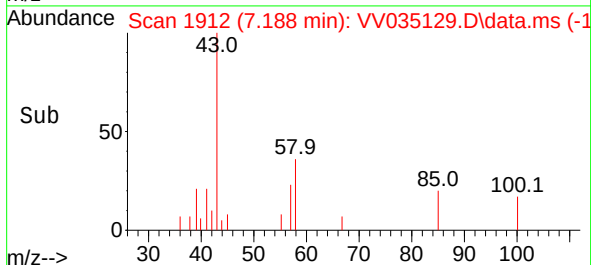
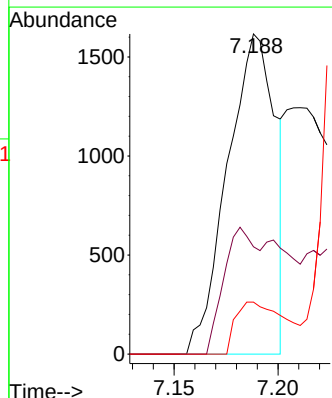
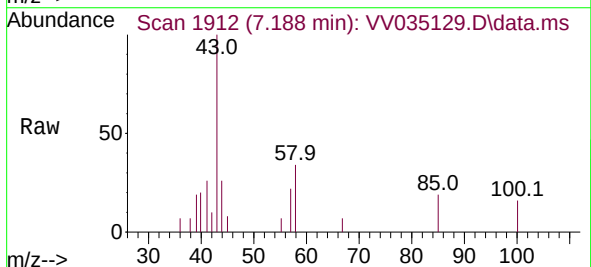
Tgt Ion: 43 Resp: 2590

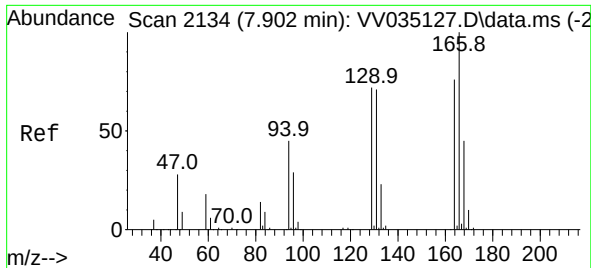
Ion Ratio Lower Upper

43 100

58 28.3 33.8 50.6#

100 0.0 11.9 17.9#





#47

Tetrachloroethene

Concen: 56.845 ug/L

RT: 7.902 min Scan# 2134

Delta R.T. 0.000 min

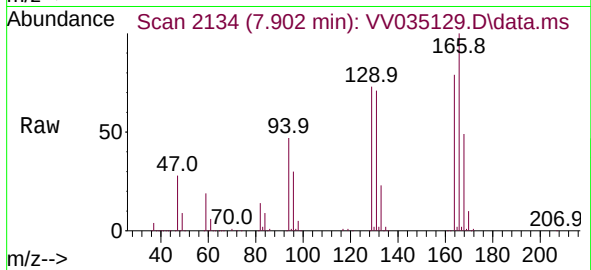
Lab File: VV035129.D

Acq: 11 Apr 2024 17:21

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 279733

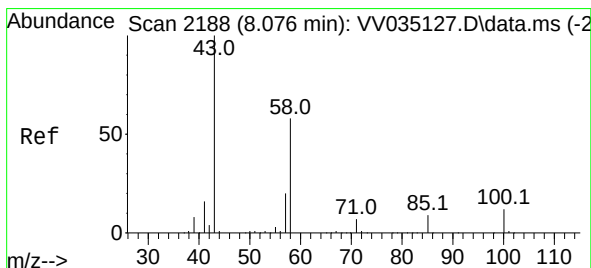
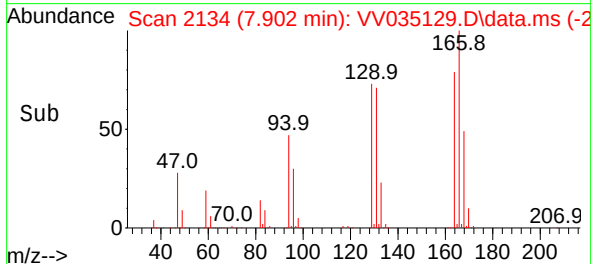
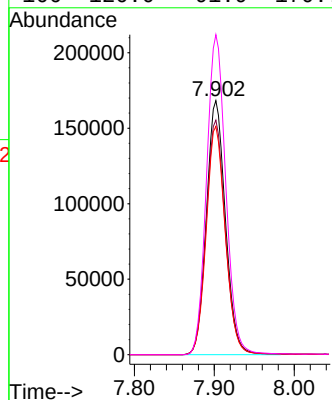
Ion Ratio Lower Upper

164 100

129 92.4 66.0 122.6

131 89.9 63.0 117.0

166 126.0 91.9 170.7



#48

2-Hexanone

Concen: 5.464 ug/L

RT: 8.101 min Scan# 2196

Delta R.T. 0.026 min

Lab File: VV035129.D

Acq: 11 Apr 2024 17:21

Tgt Ion: 43 Resp: 12131

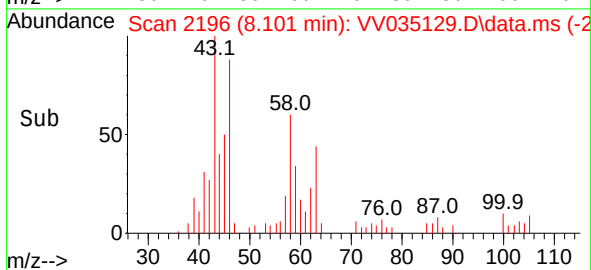
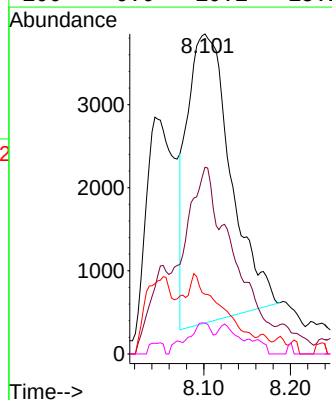
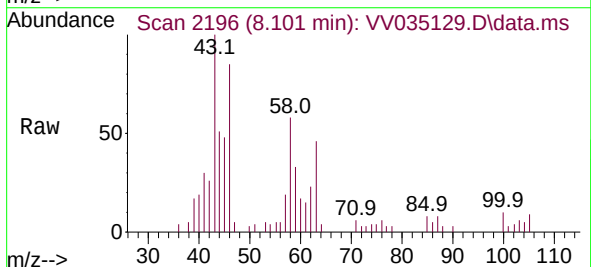
Ion Ratio Lower Upper

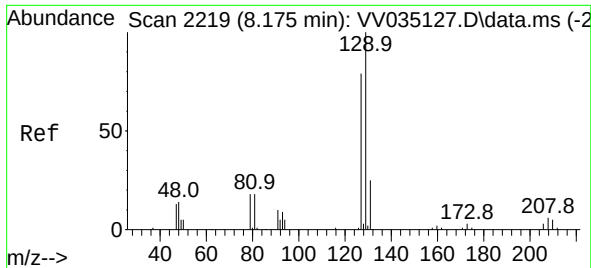
43 100

58 22.8 48.2 72.4#

57 21.8 15.6 23.4

100 6.0 10.1 15.1#





#49

Dibromochloromethane

Concen: 48.751 ug/L

RT: 7.902 min Scan# 2134

Delta R.T. -0.273 min

Lab File: VV035129.D

Acq: 11 Apr 2024 17:21

Instrument :

MSVOA_V

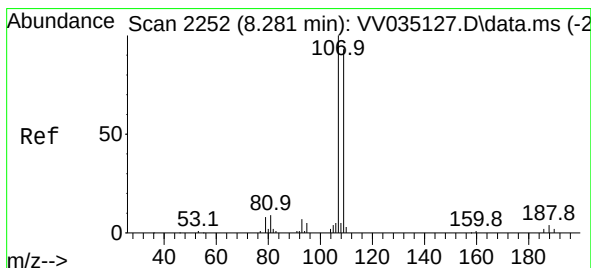
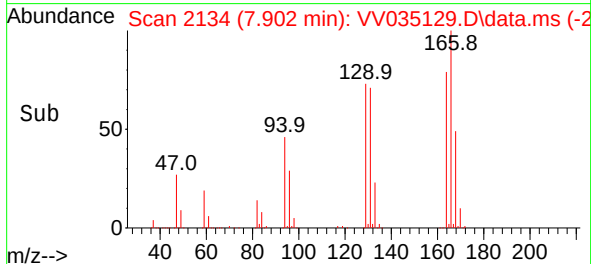
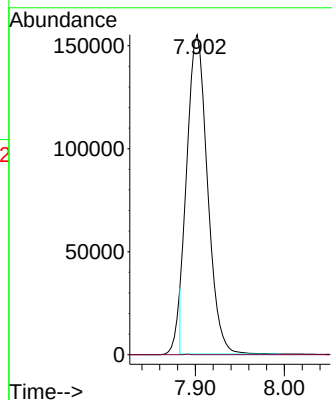
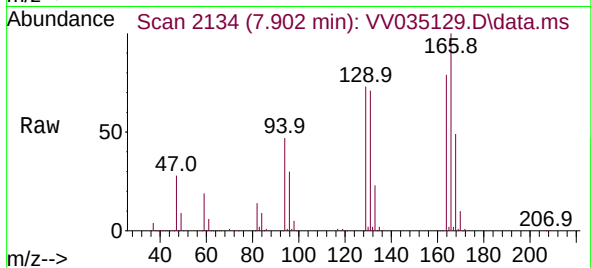
ClientSampleId :

Tgt Ion:129 Resp: 245752

Ion Ratio Lower Upper

129 100

127 0.0 56.4 104.7#



#50

1,2-Dibromoethane

Concen: 0.161 ug/L

RT: 8.297 min Scan# 2257

Delta R.T. 0.016 min

Lab File: VV035129.D

Acq: 11 Apr 2024 17:21

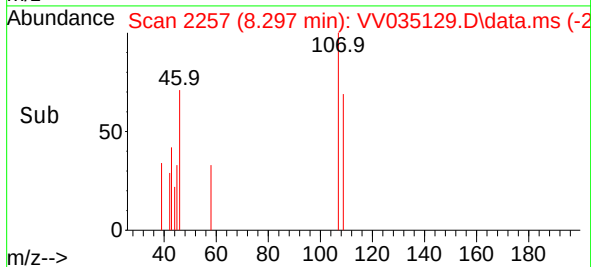
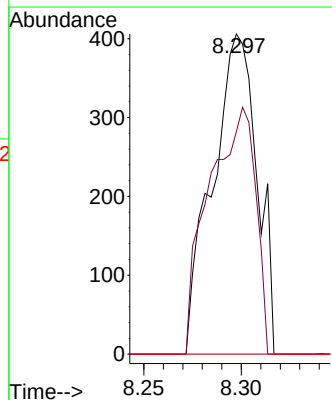
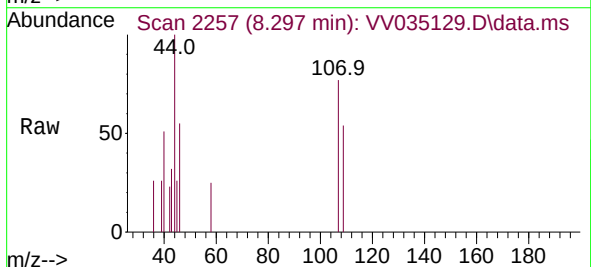
Tgt Ion:107 Resp: 648

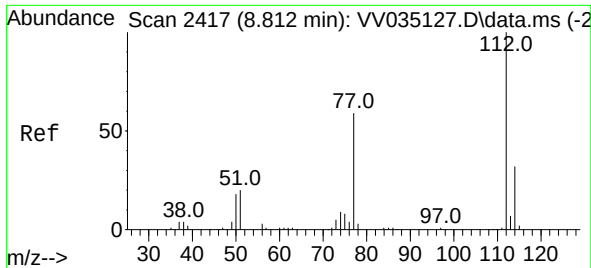
Ion Ratio Lower Upper

107 100

109 69.5 66.1 122.8

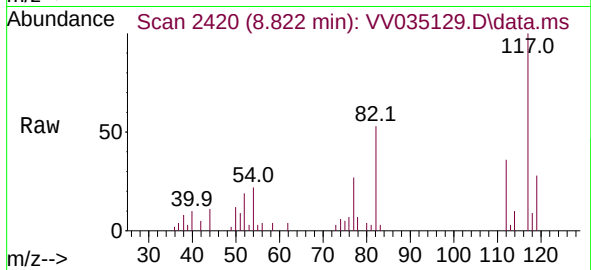
188 0.0 3.2 4.8#



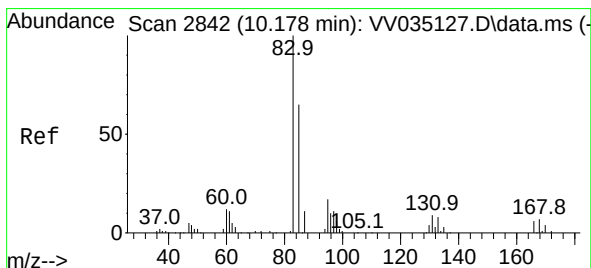
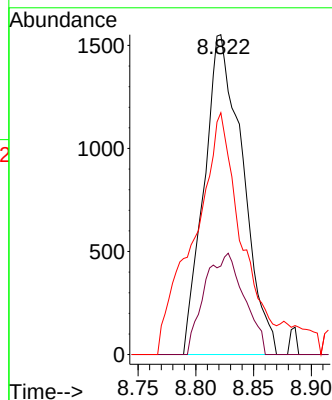
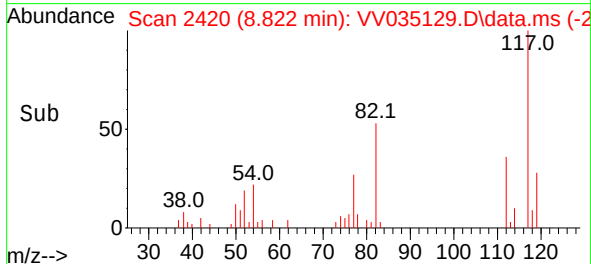


#51
Chlorobenzene
Concen: 0.210 ug/L
RT: 8.822 min Scan# 2417
Delta R.T. 0.010 min
Lab File: VV035129.D
Acq: 11 Apr 2024 17:21

Instrument :
MSVOA_V
ClientSampleId :

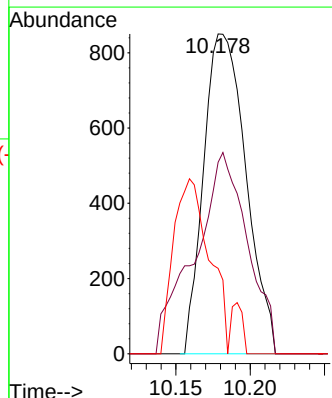
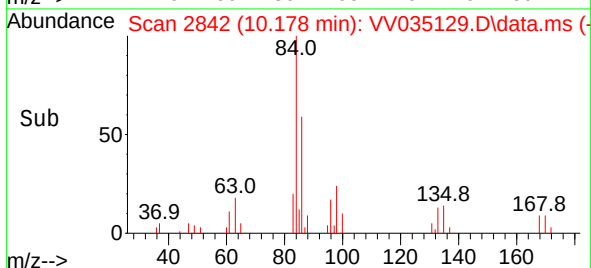
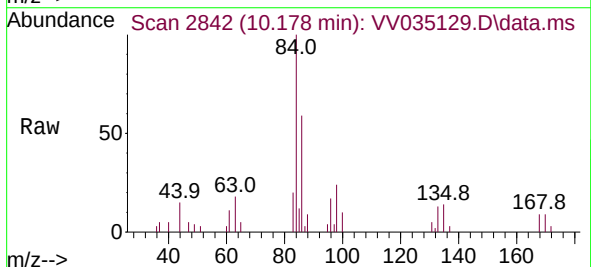


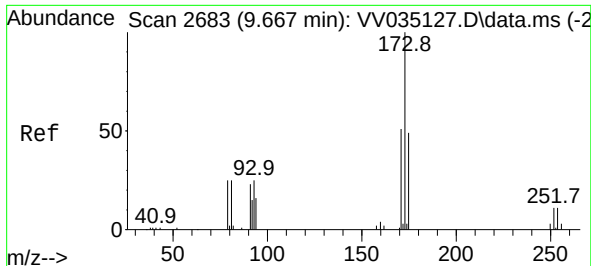
Tgt Ion:112 Resp: 3587
Ion Ratio Lower Upper
112 100
114 27.7 21.9 40.7
77 75.6 47.4 71.2#



#57
1,1,2,2-Tetrachloroethane
Concen: 0.329 ug/L
RT: 10.178 min Scan# 2842
Delta R.T. 0.000 min
Lab File: VV035129.D
Acq: 11 Apr 2024 17:21

Tgt Ion: 83 Resp: 1684
Ion Ratio Lower Upper
83 100
85 59.9 45.7 84.9
131 26.7 7.6 11.4#





#59

Bromoform

Concen: 0.135 ug/L

RT: 9.670 min Scan# 2

Delta R.T. 0.003 min

Lab File: VV035129.D

Acq: 11 Apr 2024 17:21

Instrument :

MSVOA_V

ClientSampleId :

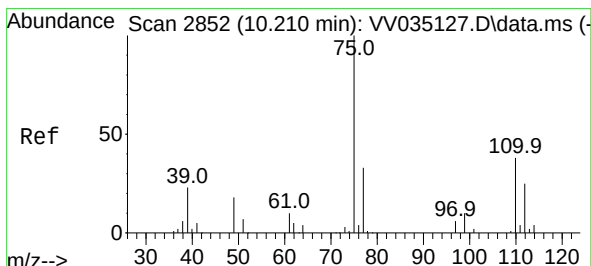
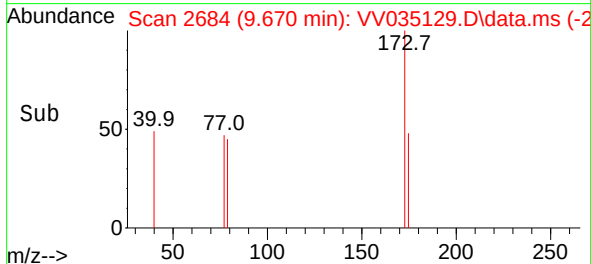
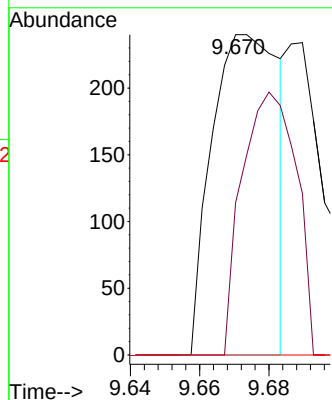
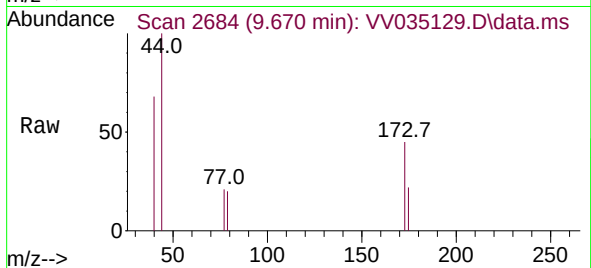
Tgt Ion:173 Resp: 320

Ion Ratio Lower Upper

173 100

175 66.9 37.8 56.8#

254 0.0 7.8 11.6#



#61

1,2,3-Trichloropropane

Concen: 0.417 ug/L

RT: 10.220 min Scan# 2855

Delta R.T. 0.010 min

Lab File: VV035129.D

Acq: 11 Apr 2024 17:21

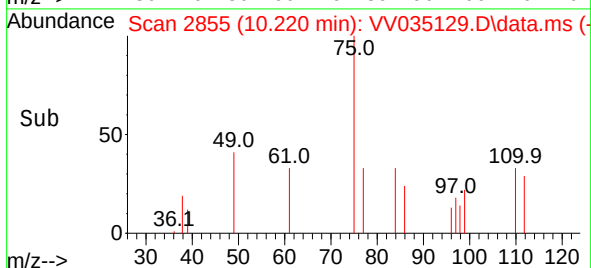
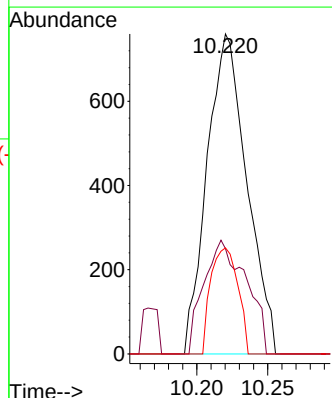
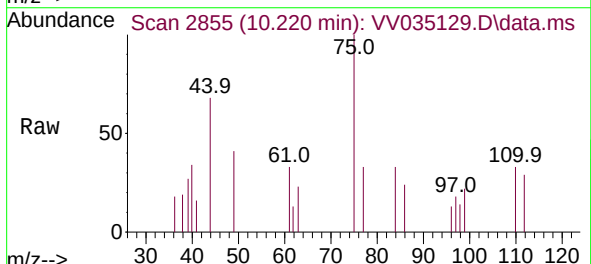
Tgt Ion: 75 Resp: 1484

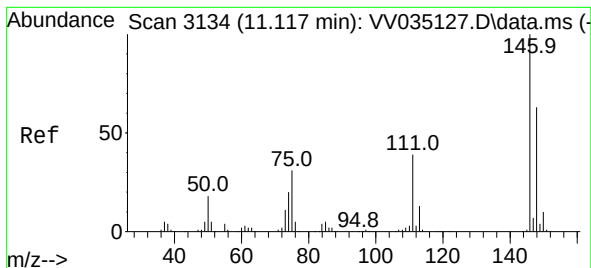
Ion Ratio Lower Upper

75 100

77 37.9 24.8 37.2#

110 22.5 31.0 46.6#





#64

1,3-Dichlorobenzene

Concen: 0.142 ug/L

RT: 11.133 min Scan# 3139

Delta R.T. 0.016 min

Lab File: VV035129.D

Acq: 11 Apr 2024 17:21

Instrument :

MSVOA_V

ClientSampleId :

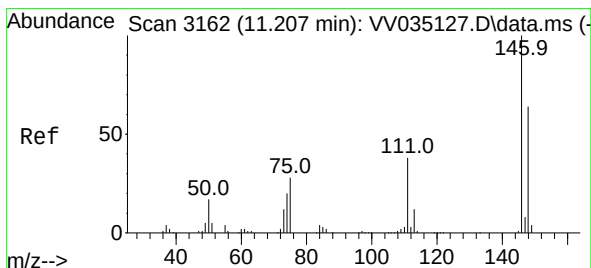
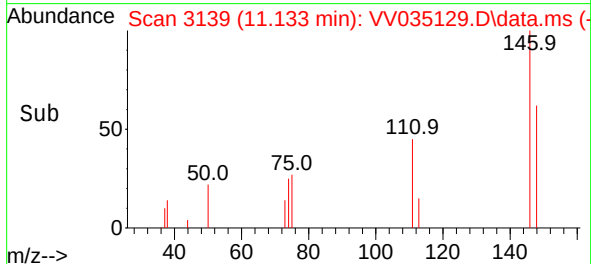
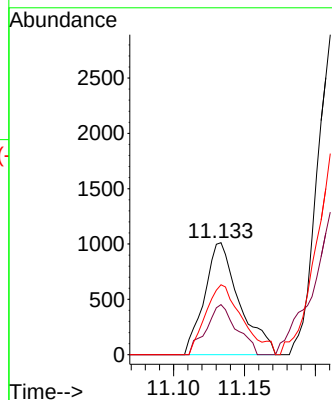
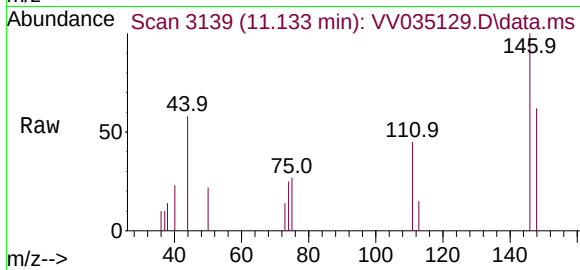
Tgt Ion:146 Resp: 1732

Ion Ratio Lower Upper

146 100

111 44.8 27.7 51.5

148 62.5 44.0 81.8



#65

1,4-Dichlorobenzene

Concen: 0.517 ug/L

RT: 11.214 min Scan# 3164

Delta R.T. 0.006 min

Lab File: VV035129.D

Acq: 11 Apr 2024 17:21

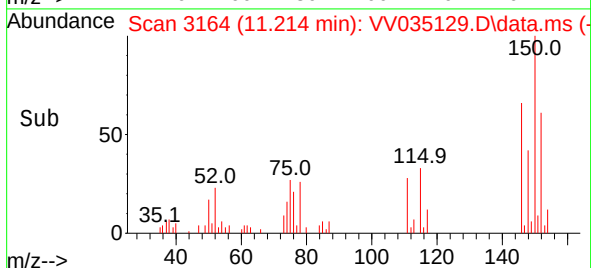
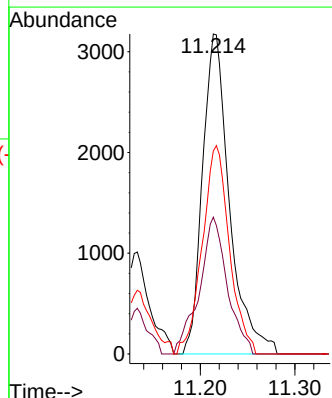
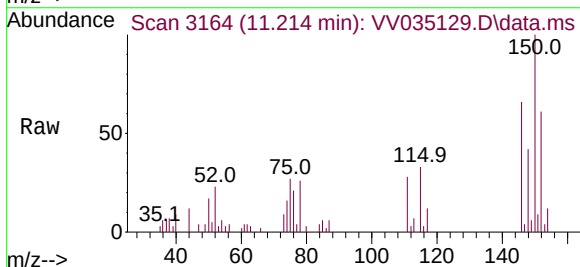
Tgt Ion:146 Resp: 6297

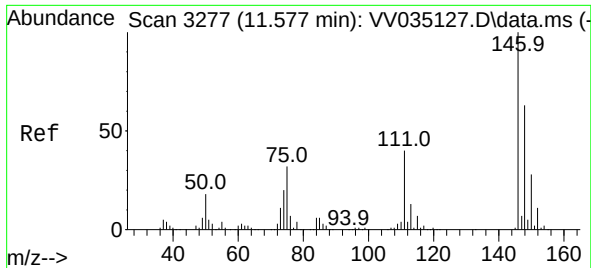
Ion Ratio Lower Upper

146 100

111 42.8 27.3 50.7

148 63.4 43.5 80.7





#67

1,2-Dichlorobenzene

Concen: 0.346 ug/L

RT: 11.583 min Scan# 3277

Delta R.T. 0.006 min

Lab File: VV035129.D

Acq: 11 Apr 2024 17:21

Instrument :

MSVOA_V

ClientSampleId :

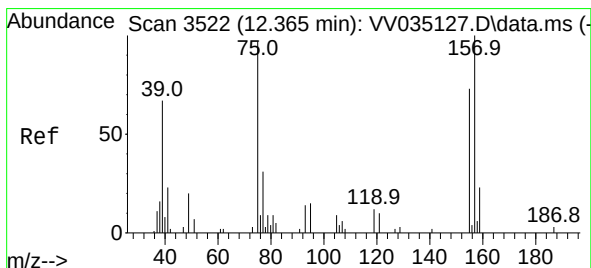
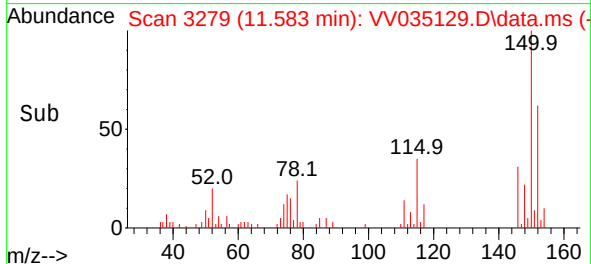
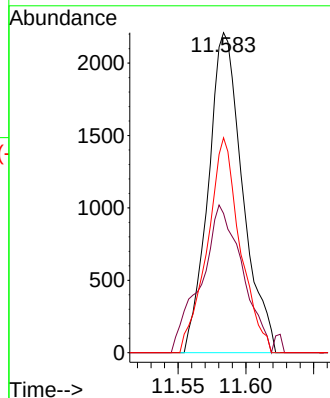
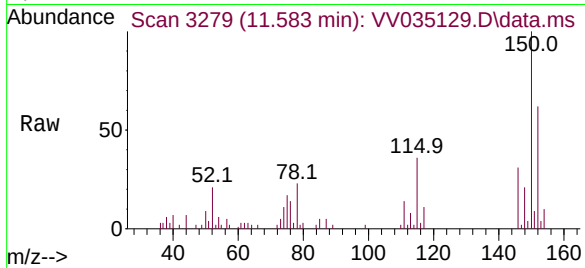
Tgt Ion:146 Resp: 3890

Ion Ratio Lower Upper

146 100

111 43.5 33.9 50.9

148 67.1 49.3 73.9



#68

1,2-Dibromo-3-chloropropane

Concen: 0.512 ug/L

RT: 12.371 min Scan# 3524

Delta R.T. 0.006 min

Lab File: VV035129.D

Acq: 11 Apr 2024 17:21

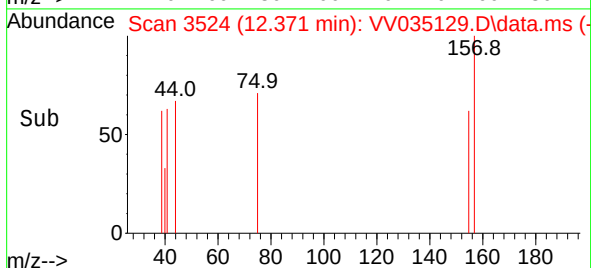
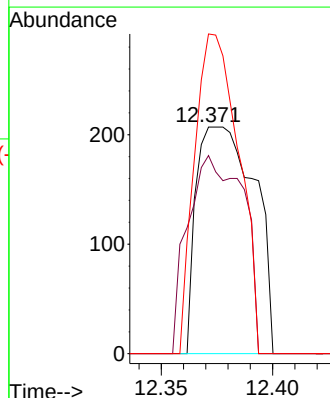
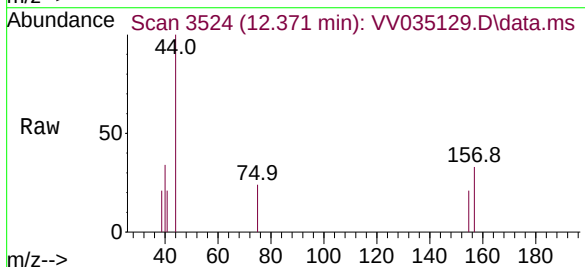
Tgt Ion: 75 Resp: 375

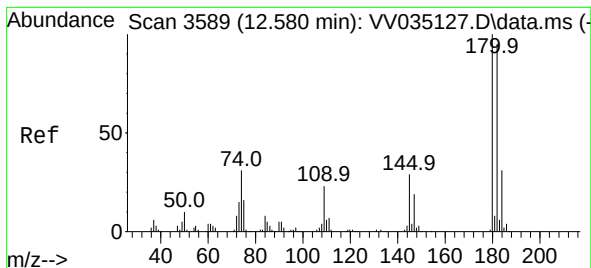
Ion Ratio Lower Upper

75 100

155 87.4 63.4 95.0

157 141.1 78.6 117.8#





#69

1,3,5-Trichlorobenzene

Concen: 0.162 ug/L

RT: 12.590 min Scan# 3592

Delta R.T. 0.010 min

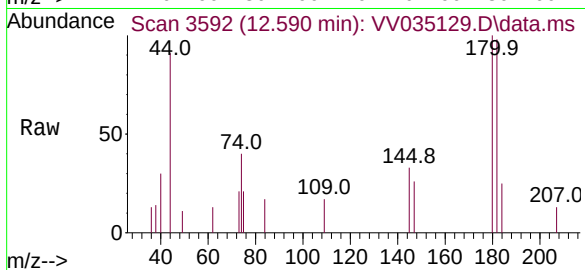
Lab File: VV035129.D

Acq: 11 Apr 2024 17:21

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:180 Resp: 1476

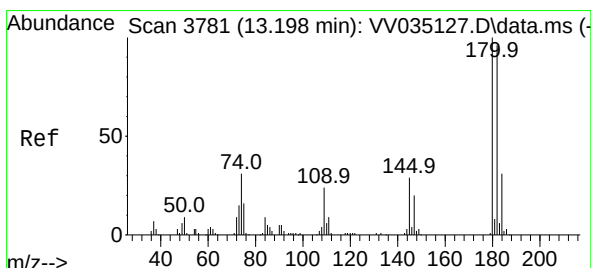
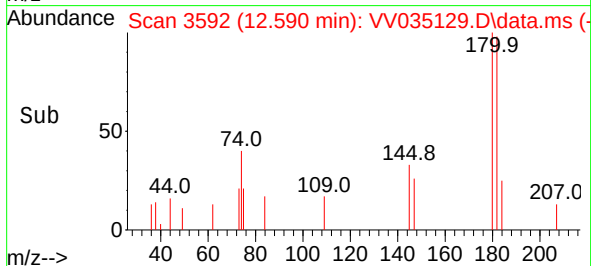
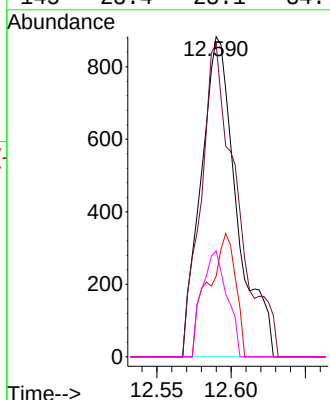
Ion Ratio Lower Upper

180 100

182 98.9 77.3 115.9

184 29.5 24.1 36.1

145 23.4 23.1 34.7



#70

1,2,4-trichlorobenzene

Concen: 0.491 ug/L

RT: 13.207 min Scan# 3784

Delta R.T. 0.010 min

Lab File: VV035129.D

Acq: 11 Apr 2024 17:21

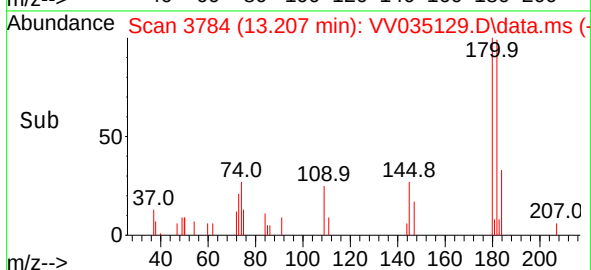
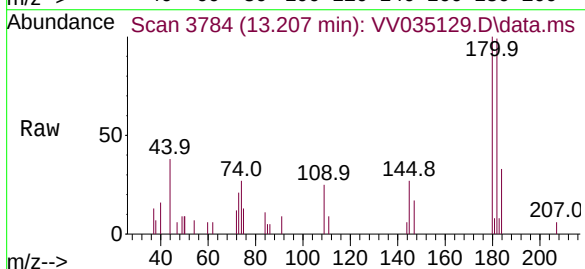
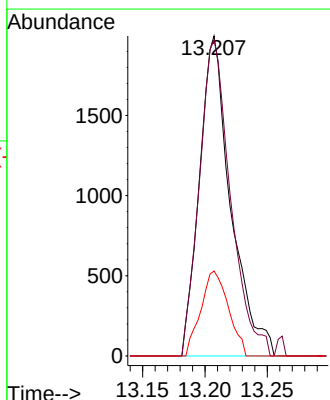
Tgt Ion:180 Resp: 3484

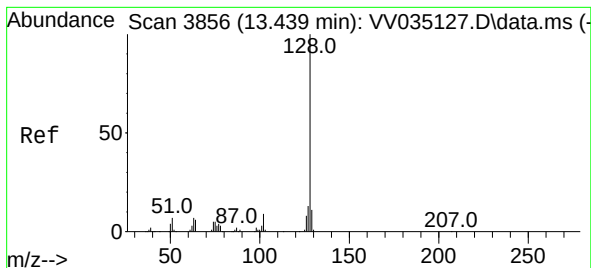
Ion Ratio Lower Upper

180 100

182 98.3 75.3 112.9

145 23.4 23.4 35.0





#71

Naphthalene

Concen: 0.468 ug/L

RT: 13.452 min Scan# 3860

Delta R.T. 0.013 min

Lab File: VV035129.D

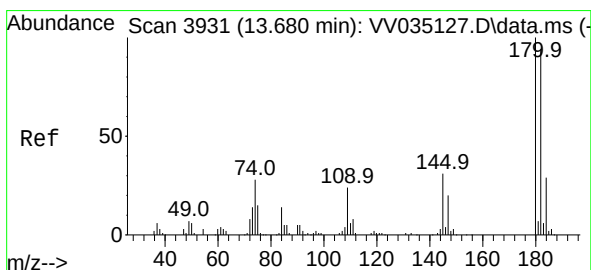
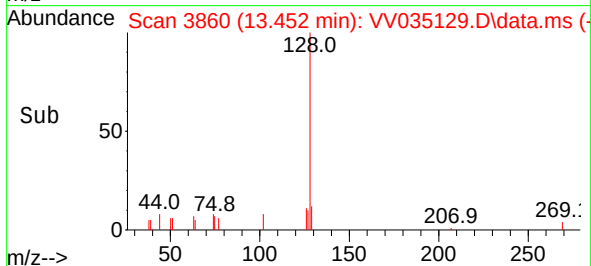
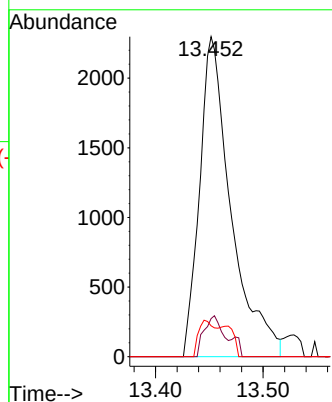
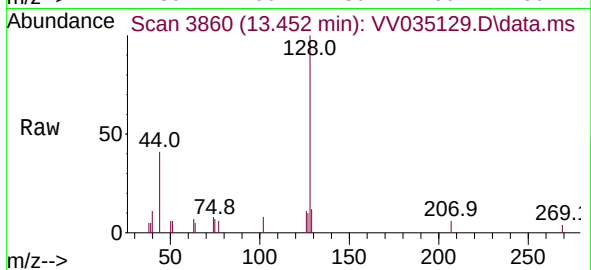
Acq: 11 Apr 2024 17:21

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:128	Resp:	4665
Ion Ratio	Lower	Upper
128	100	
129	7.5	8.6 12.8#
127	6.3	10.7 16.1#



#72

1,2,3-Trichlorobenzene

Concen: 0.251 ug/L

RT: 13.686 min Scan# 3933

Delta R.T. 0.007 min

Lab File: VV035129.D

Acq: 11 Apr 2024 17:21

Tgt Ion:180	Resp:	1565
Ion Ratio	Lower	Upper
180	100	
182	103.1	77.0 115.4
145	29.4	25.4 38.2

