

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW040324\
 Data File : VW034961.D
 Acq On : 03 Apr 2024 17:02
 Operator : SY/MD
 Sample : P1925-21 200X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 04 02:55:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR040224WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Apr 04 02:49:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	5.535	114	174141	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.786	117	177590	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	90591	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	63664	4.436	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.800%
7) Chloroethane-d5	1.535	69	57042	4.821	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.400%
11) 1,1-Dichloroethene-d2	2.060	65	29818	4.575	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.400%
20) 2-Butanone-d5	3.802	46	84110	37.457	ug/L	-0.05
Spiked Amount	50.000	Range	40 - 130	Recovery	=	74.920%
24) Chloroform-d	4.249	84	118969	5.123	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.400%
26) 1,2-Dichloroethane-d4	4.944	65	57709	5.503	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.000%
32) Benzene-d6	4.963	84	235186	5.063	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.200%
36) 1,2-Dichloropropane-d6	5.989	67	76152	5.585	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	111.800%
41) Toluene-d8	7.246	98	201787	4.782	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.600%
43) trans-1,3-Dichloroprop...	7.561	79	23961	4.947	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.000%
46) 2-Hexanone-d5	8.027	63	92340	55.548	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	111.100%
56) 1,1,2,2-Tetrachloroeth...	10.152	84	52237	5.491	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	109.800%
66) 1,2-Dichlorobenzene-d4	11.561	152	77076	5.401	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.285	62	8455	0.486	ug/L	85
16) Methylene chloride	2.449	84	3530	0.243	ug/L	74
22) cis-1,2-Dichloroethene	3.812	96	597672	43.549	ug/L	97
33) Benzene	5.018	78	20534	0.378	ug/L	100
34) Trichloroethene	5.834	95	58261	4.113	ug/L	95
35) Methylcyclohexane	6.047	83	3927	0.182	ug/L	89
37) 1,2-Dichloropropane	5.989	63	8019	0.569	ug/L #	87
42) Toluene	7.313	91	2106130	36.852	ug/L	98
47) Tetrachloroethene	7.902	164	258752	24.312	ug/L	98
48) 2-Hexanone	8.088	43	19019	3.961	ug/L #	71
49) Dibromochloromethane	7.902	129	236541	21.696	ug/L #	9
51) Chlorobenzene	8.815	112	136138	3.687	ug/L	98
52) Ethylbenzene	8.950	91	79241	1.284	ug/L	99
53) m,p-Xylene	9.072	106	125826	5.551	ug/L	99
54) o-Xylene	9.477	106	38802	1.745	ug/L	99
55) Styrene	9.480	104	2496	0.070	ug/L #	1
60) Isopropylbenzene	10.677	105	20525	0.362	ug/L	93
61) 1,2,3-Trichloropropane	11.117	75	22256	2.632	ug/L #	73
62) 1,3,5-Trimethylbenzene	10.477	105	18851	0.405	ug/L	99

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QLast Update : Thu Apr 04 02:49:59 2024
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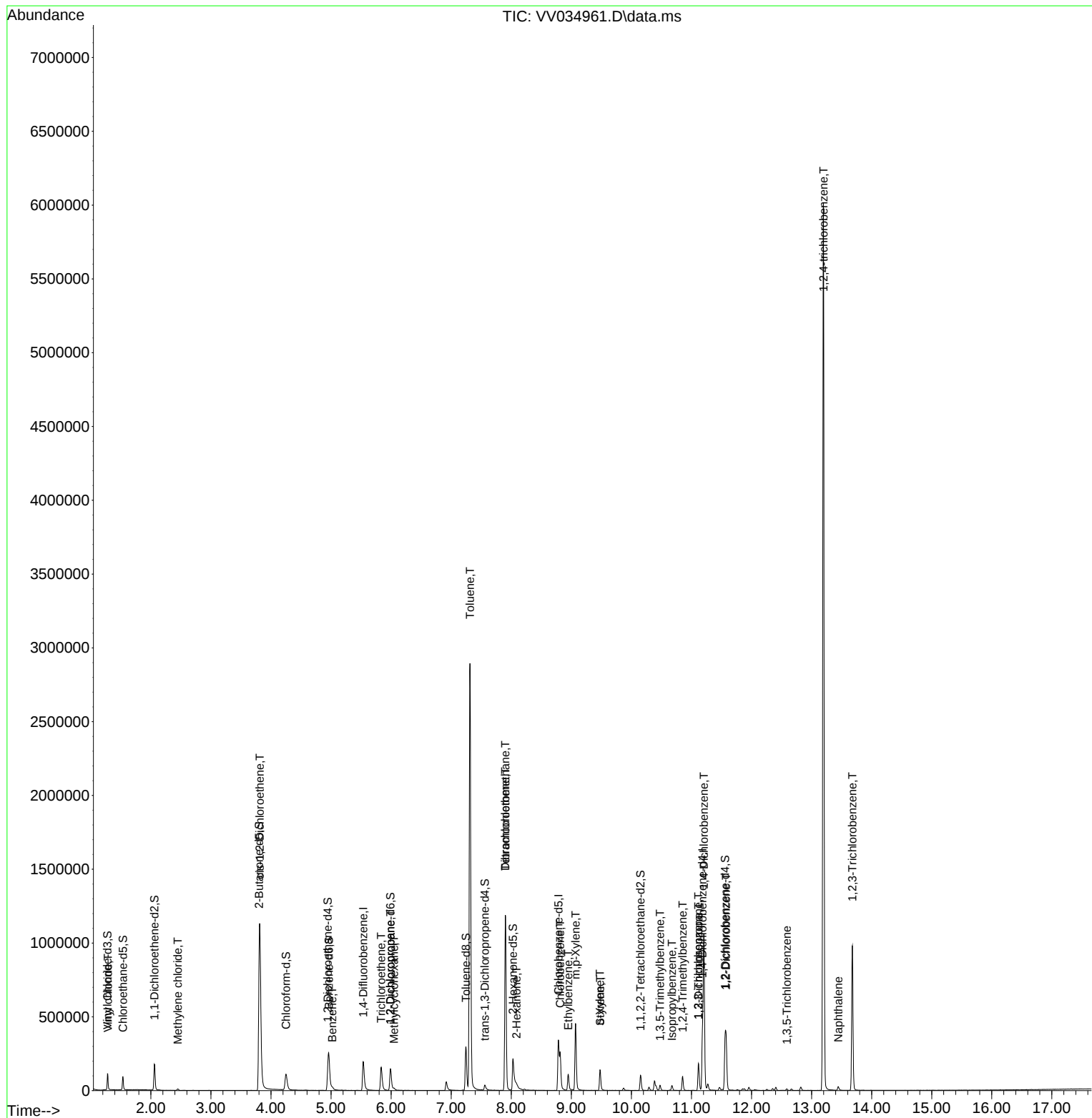
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	10.853	105	51535	1.092	ug/L	99
64) 1,3-Dichlorobenzene	11.117	146	72507	2.509	ug/L	99
65) 1,4-Dichlorobenzene	11.207	146	410471	14.183	ug/L	99
67) 1,2-Dichlorobenzene	11.577	146	118454	4.437	ug/L	98
69) 1,3,5-Trichlorobenzene	12.586	180	3250	0.150	ug/L	98
70) 1,2,4-trichlorobenzene	13.197	180	1690729	100.314	ug/L	99
71) Naphthalene	13.445	128	21168	0.894	ug/L	97
72) 1,2,3-Trichlorobenzene	13.680	180	287918	19.424	ug/L	99

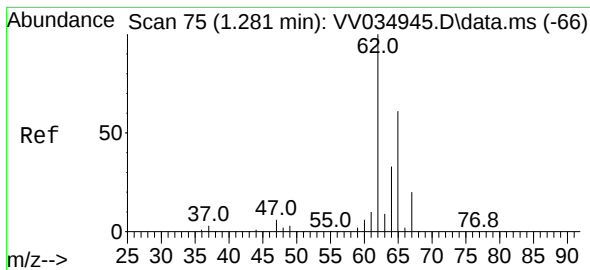
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.486 ug/L

RT: 1.285 min Scan# 75

Delta R.T. 0.003 min

Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

Instrument :

MSVOA_V

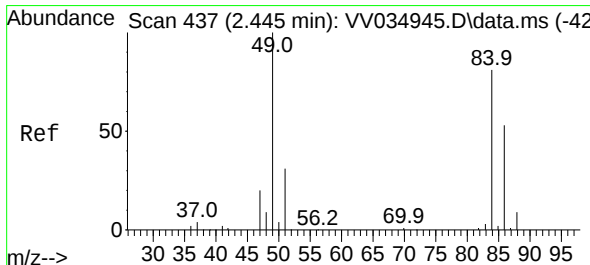
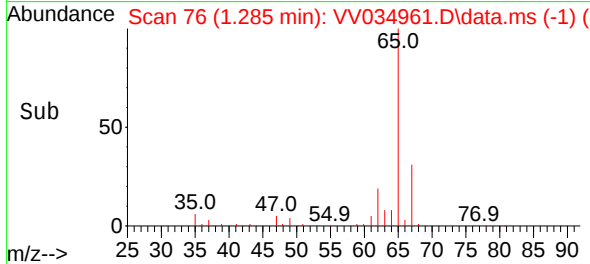
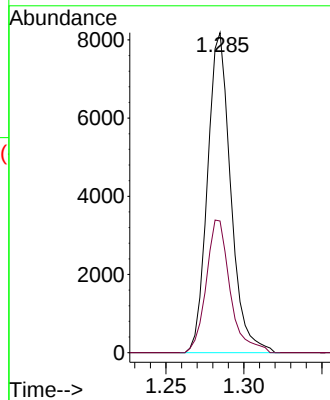
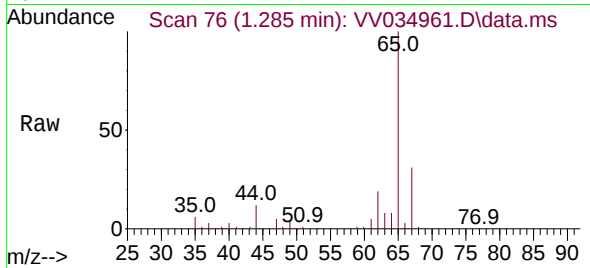
ClientSampleId :

Tgt Ion: 62 Resp: 8455

Ion Ratio Lower Upper

62 100

64 41.1 22.9 42.5



#16

Methylene chloride

Concen: 0.243 ug/L

RT: 2.449 min Scan# 438

Delta R.T. 0.003 min

Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

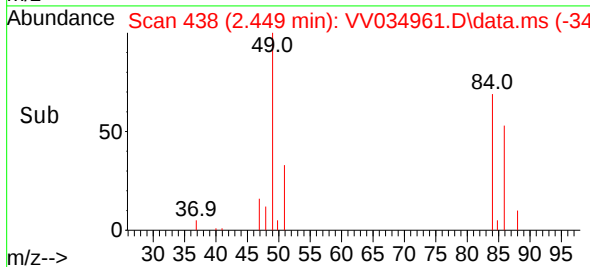
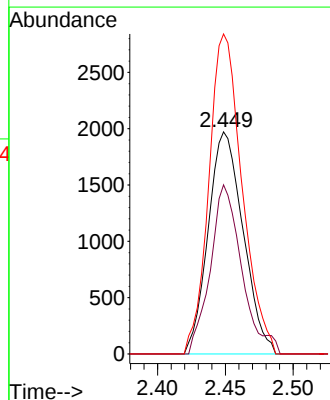
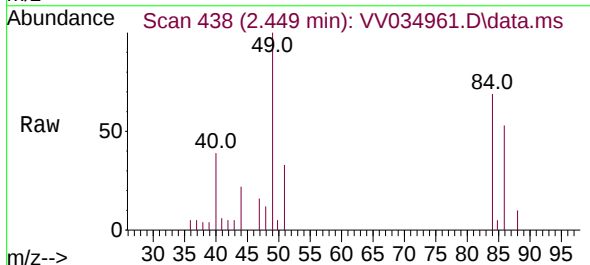
Tgt Ion: 84 Resp: 3530

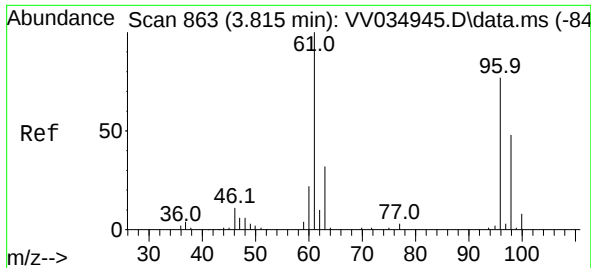
Ion Ratio Lower Upper

84 100

86 76.1 43.5 80.9

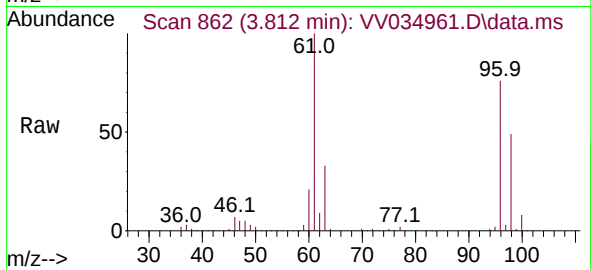
49 151.1 82.5 153.3



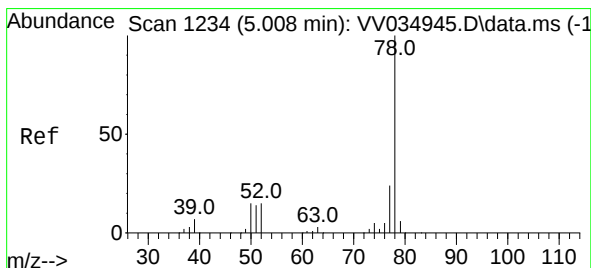
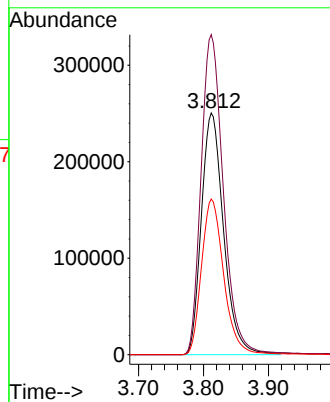
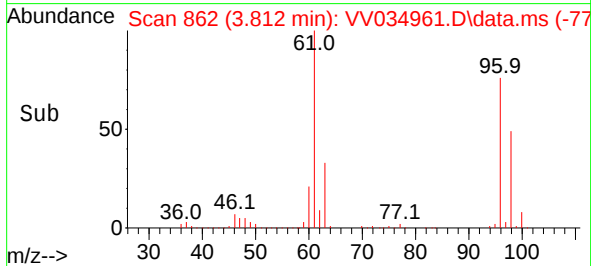


#22
 cis-1,2-Dichloroethene
 Concen: 43.549 ug/L
 RT: 3.812 min Scan# 80
 Delta R.T. -0.003 min
 Lab File: VV034961.D
 Acq: 03 Apr 2024 17:02

Instrument :
 MSVOA_V
 ClientSampleId :

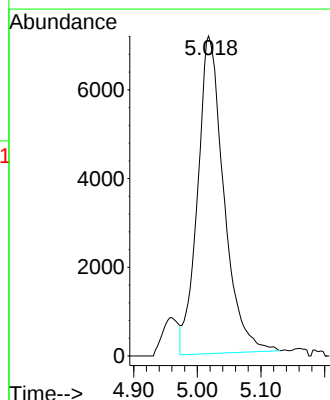
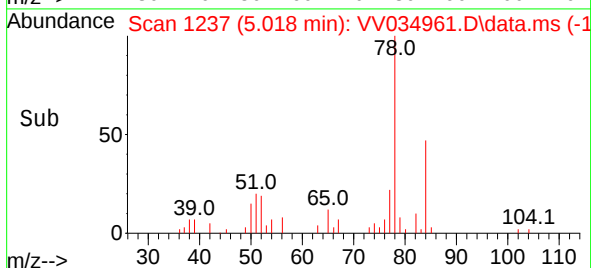
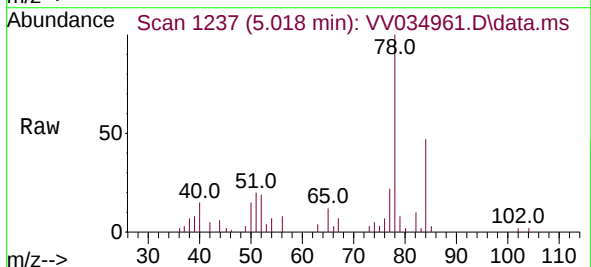


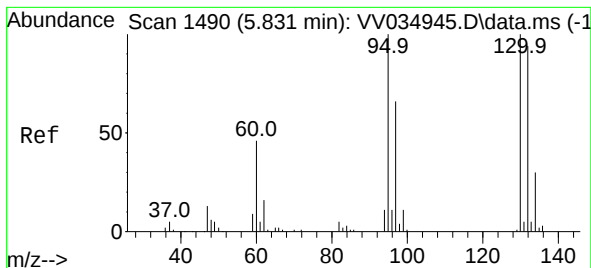
Tgt Ion: 96 Resp: 597672
 Ion Ratio Lower Upper
 96 100
 61 132.4 90.3 167.7
 98 64.4 42.7 79.3



#33
 Benzene
 Concen: 0.378 ug/L
 RT: 5.018 min Scan# 1237
 Delta R.T. 0.010 min
 Lab File: VV034961.D
 Acq: 03 Apr 2024 17:02

Tgt Ion: 78 Resp: 20534





#34

Trichloroethene

Concen: 4.113 ug/L

RT: 5.834 min Scan# 1490

Delta R.T. 0.003 min

Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 95 Resp: 58261

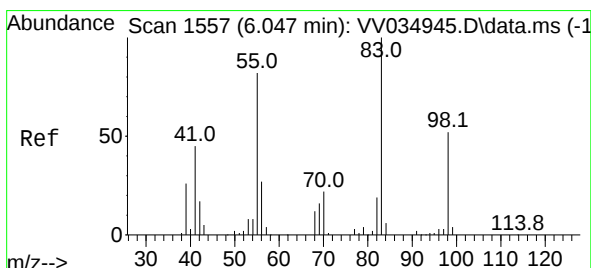
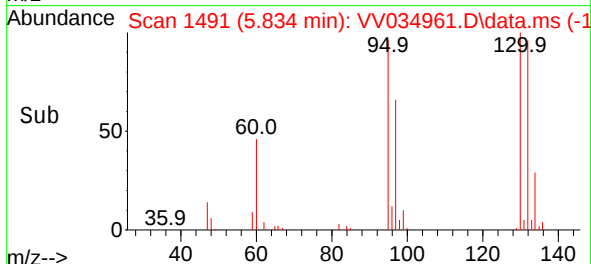
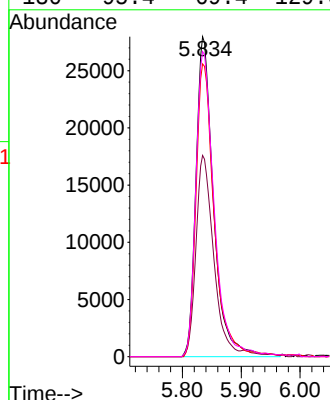
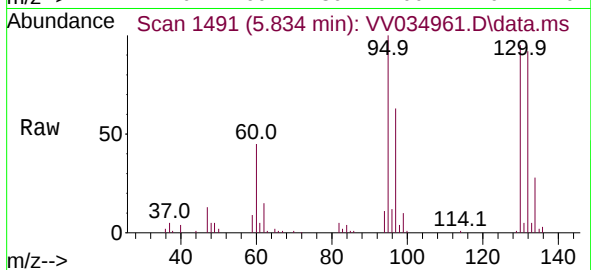
Ion Ratio Lower Upper

95 100

97 62.9 46.8 86.8

132 91.5 68.0 126.4

130 95.4 69.4 129.0



#35

Methylcyclohexane

Concen: 0.182 ug/L

RT: 6.047 min Scan# 1557

Delta R.T. 0.000 min

Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

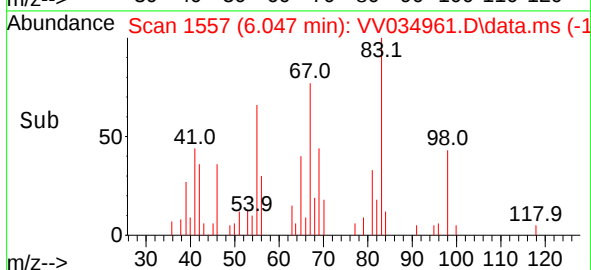
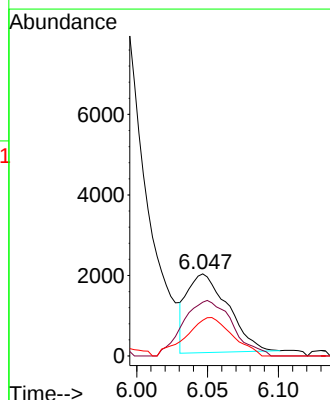
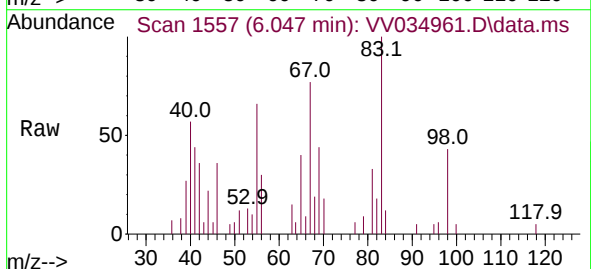
Tgt Ion: 83 Resp: 3927

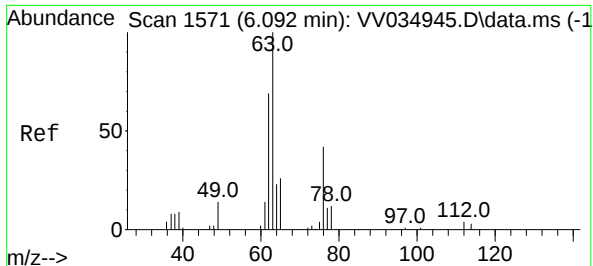
Ion Ratio Lower Upper

83 100

55 84.8 60.6 91.0

98 54.6 37.8 56.6

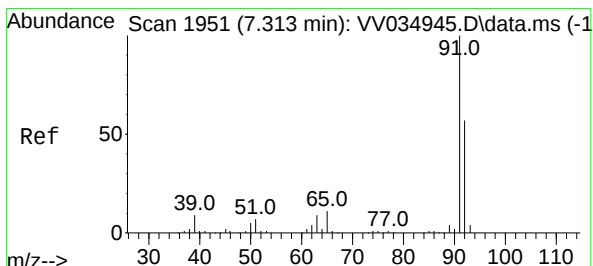
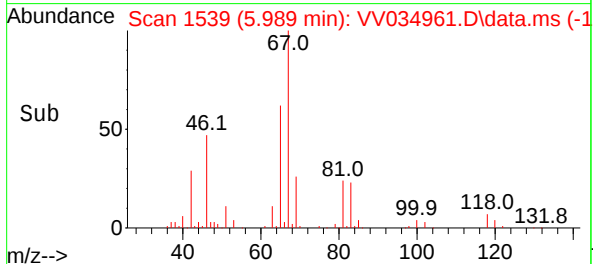
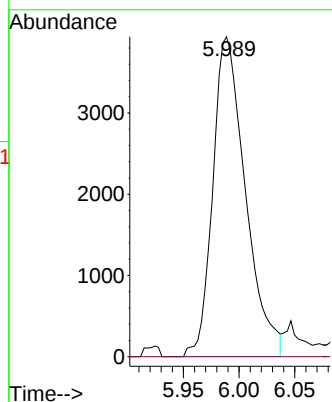
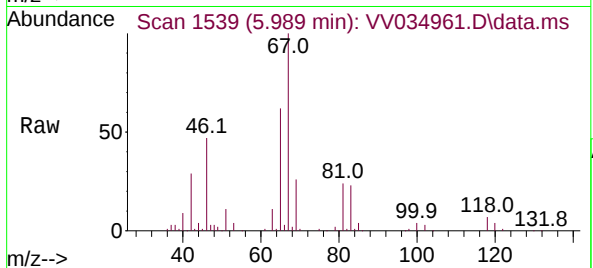




#37
1,2-Dichloropropane
Concen: 0.569 ug/L
RT: 5.989 min Scan# 1539
Delta R.T. -0.103 min
Lab File: VV034961.D
Acq: 03 Apr 2024 17:02

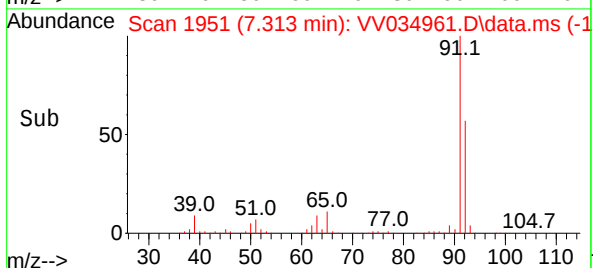
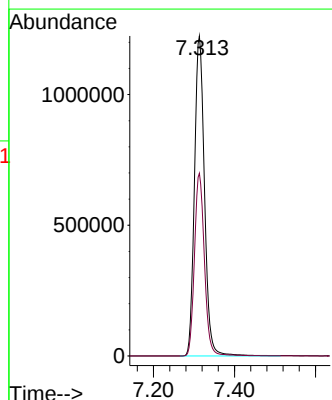
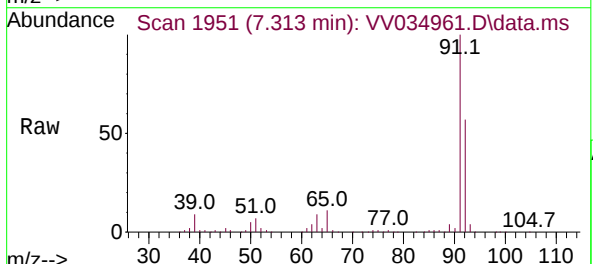
Instrument :
MSVOA_V
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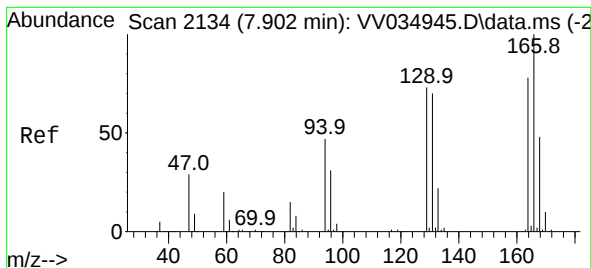
Tgt Ion: 63 Resp: 8019
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#



#42
Toluene
Concen: 36.852 ug/L
RT: 7.313 min Scan# 1951
Delta R.T. 0.000 min
Lab File: VV034961.D
Acq: 03 Apr 2024 17:02

Tgt Ion: 91 Resp: 2106130
Ion Ratio Lower Upper
91 100
92 57.1 38.9 72.2





#47

Tetrachloroethene

Concen: 24.312 ug/L

RT: 7.902 min Scan# 2134

Delta R.T. 0.000 min

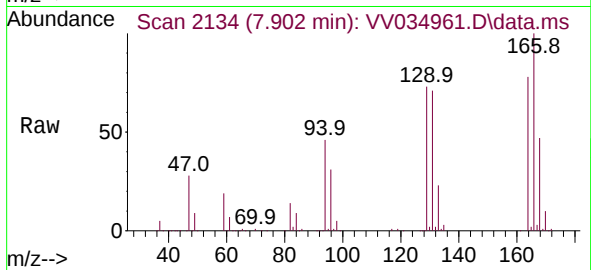
Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 258752

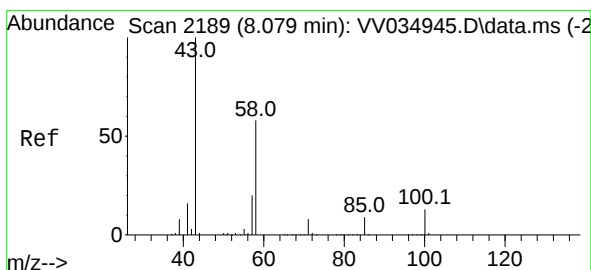
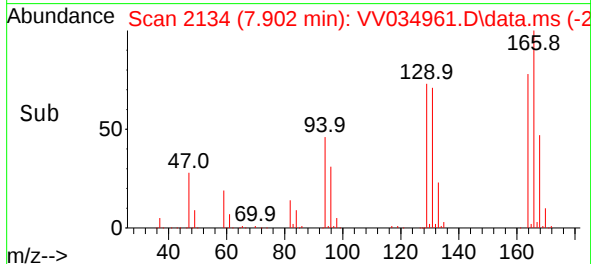
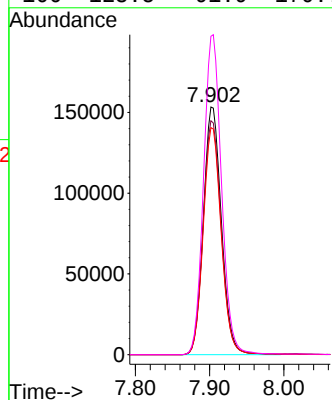
Ion Ratio Lower Upper

164 100

129 94.4 66.0 122.6

131 91.6 63.0 117.0

166 128.5 91.9 170.7



#48

2-Hexanone

Concen: 3.961 ug/L

RT: 8.088 min Scan# 2192

Delta R.T. 0.010 min

Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

Tgt Ion: 43 Resp: 19019

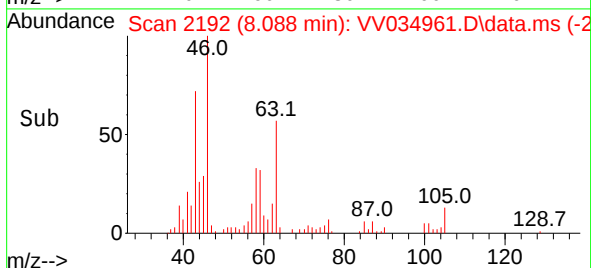
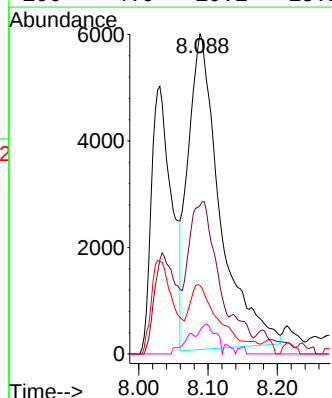
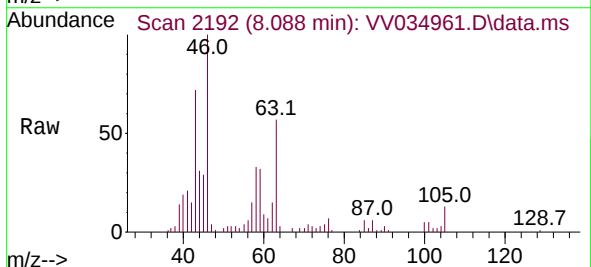
Ion Ratio Lower Upper

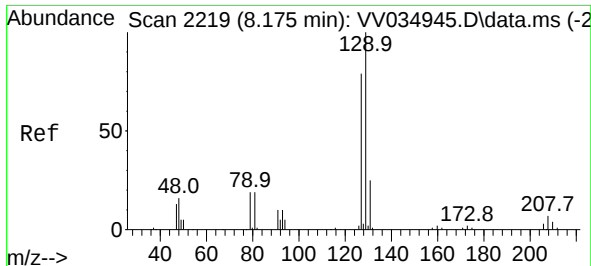
43 100

58 30.9 48.2 72.4#

57 21.7 15.6 23.4

100 4.9 10.1 15.1#





#49

Dibromochloromethane

Concen: 21.696 ug/L

RT: 7.902 min Scan# 2134

Delta R.T. -0.273 min

Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

Instrument :

MSVOA_V

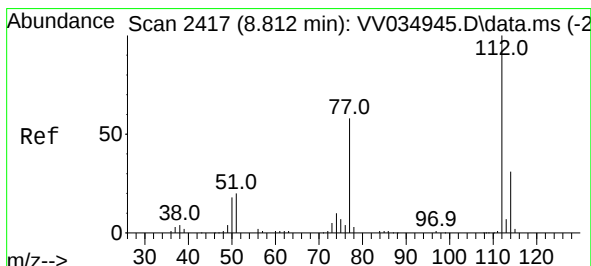
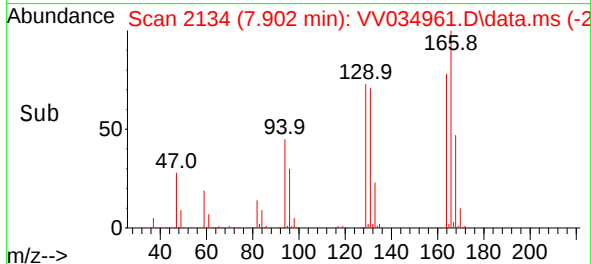
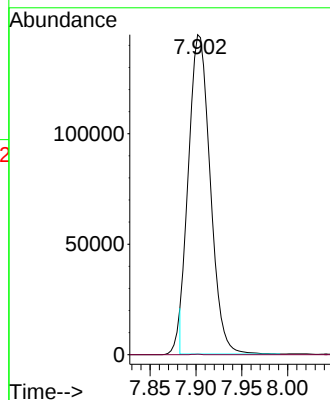
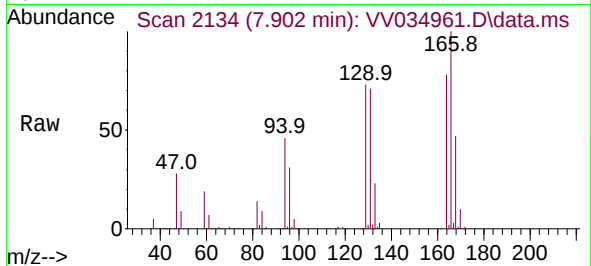
ClientSampleId :

Tgt Ion:129 Resp: 236541

Ion Ratio Lower Upper

129 100

127 0.2 56.4 104.7#



#51

Chlorobenzene

Concen: 3.687 ug/L

RT: 8.815 min Scan# 2418

Delta R.T. 0.003 min

Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

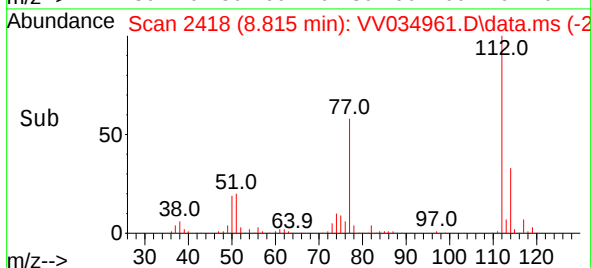
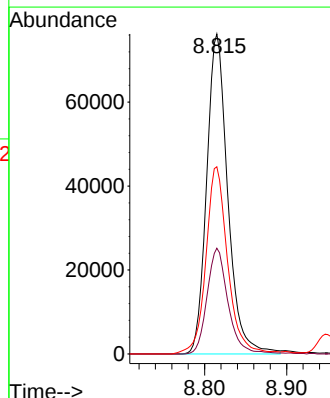
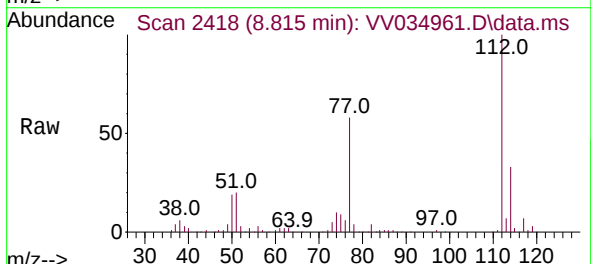
Tgt Ion:112 Resp: 136138

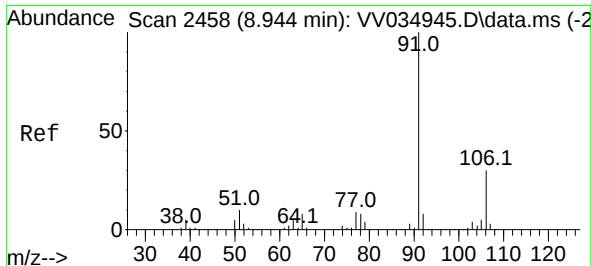
Ion Ratio Lower Upper

112 100

114 33.1 21.9 40.7

77 58.5 47.4 71.2





#52

Ethylbenzene

Concen: 1.284 ug/L

RT: 8.950 min Scan# 2458

Delta R.T. 0.006 min

Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

Instrument :

MSVOA_V

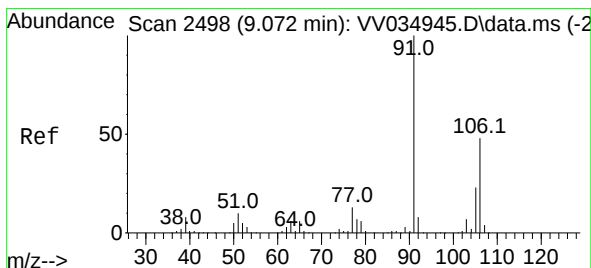
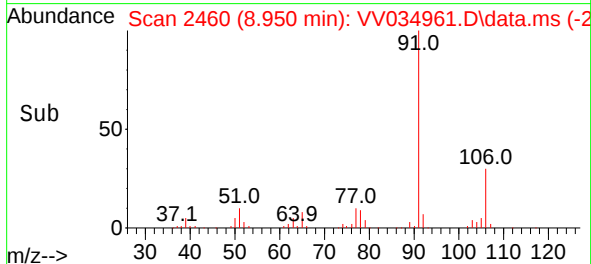
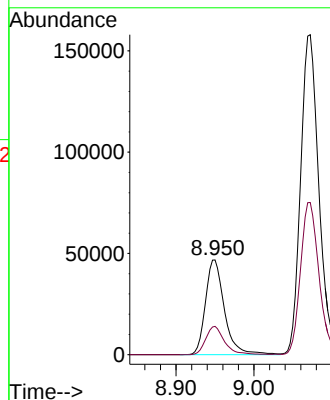
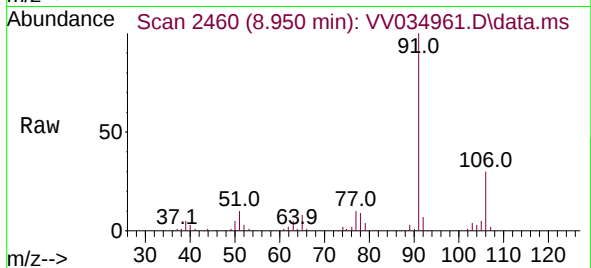
ClientSampleId :

Tgt Ion: 91 Resp: 79241

Ion Ratio Lower Upper

91 100

106 30.0 21.2 39.4



#53

m,p-Xylene

Concen: 5.551 ug/L

RT: 9.072 min Scan# 2498

Delta R.T. 0.000 min

Lab File: VV034961.D

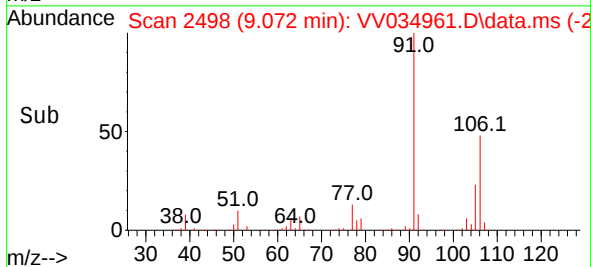
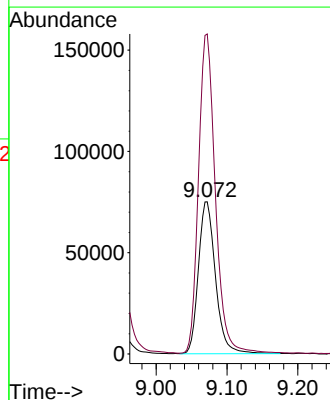
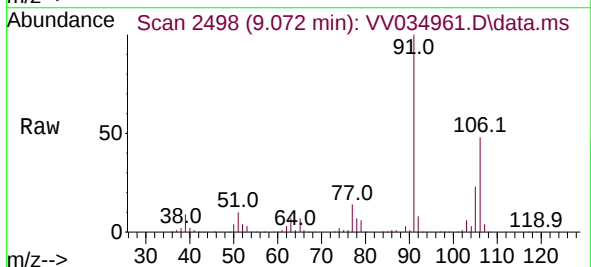
Acq: 03 Apr 2024 17:02

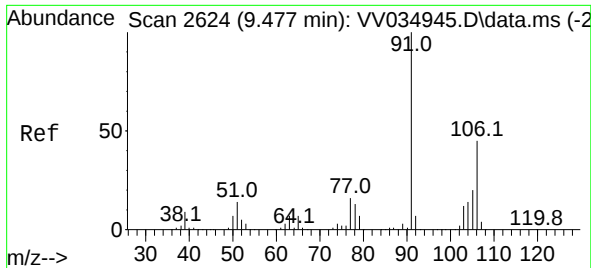
Tgt Ion: 106 Resp: 125826

Ion Ratio Lower Upper

106 100

91 210.2 145.7 270.7





#54

o-Xylene

Concen: 1.745 ug/L

RT: 9.477 min Scan# 2

Delta R.T. 0.000 min

Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

Instrument :

MSVOA_V

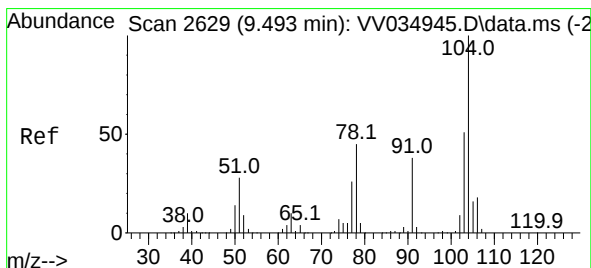
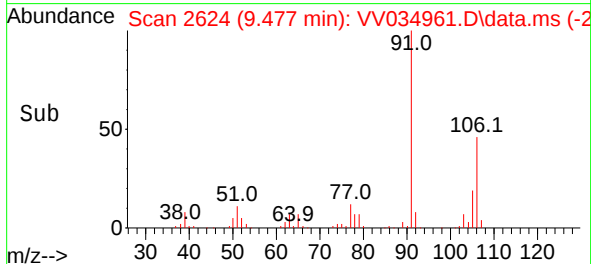
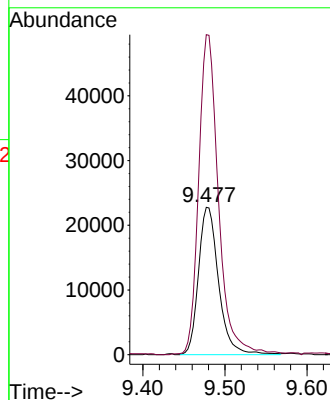
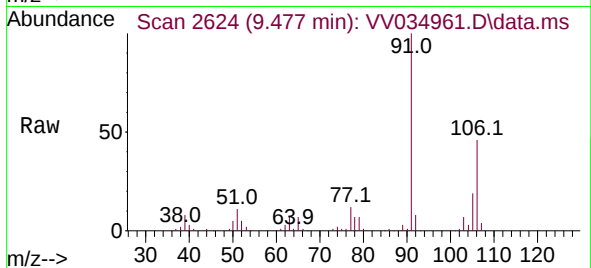
ClientSampleId :

Tgt Ion:106 Resp: 38802

Ion Ratio Lower Upper

106 100

91 217.1 151.2 280.8



#55

Styrene

Concen: 0.070 ug/L

RT: 9.480 min Scan# 2625

Delta R.T. -0.013 min

Lab File: VV034961.D

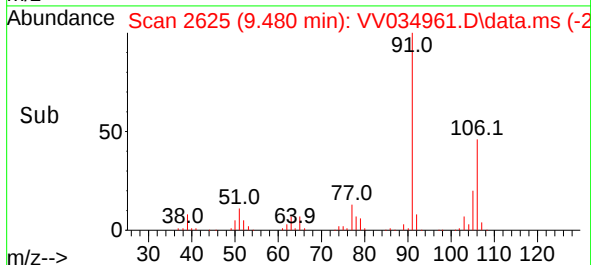
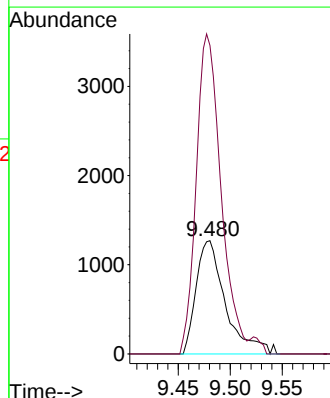
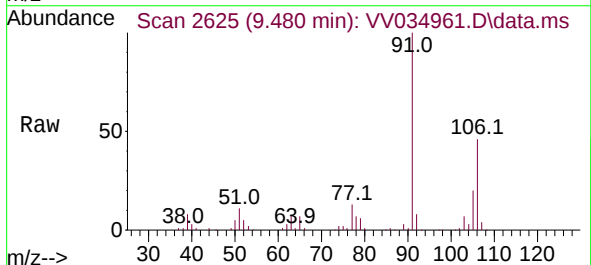
Acq: 03 Apr 2024 17:02

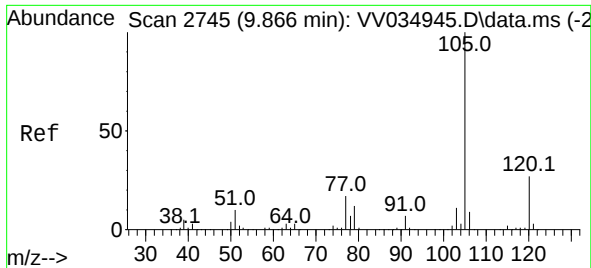
Tgt Ion:104 Resp: 2496

Ion Ratio Lower Upper

104 100

78 272.3 30.9 57.5#

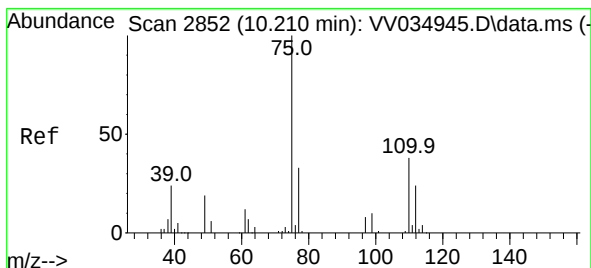
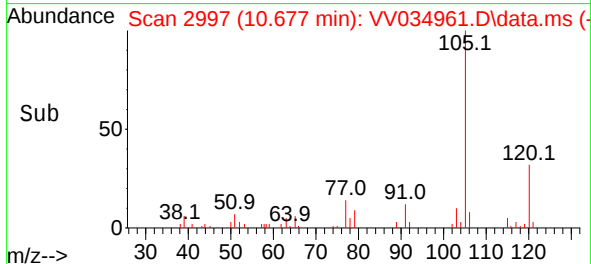
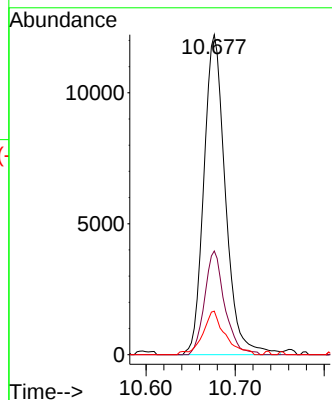
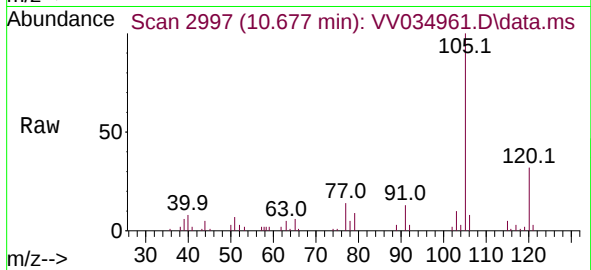




#60
Isopropylbenzene
Concen: 0.362 ug/L
RT: 10.677 min Scan# 20525
Delta R.T. 0.810 min
Lab File: VV034961.D
Acq: 03 Apr 2024 17:02

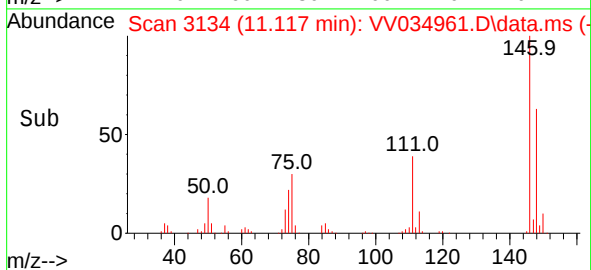
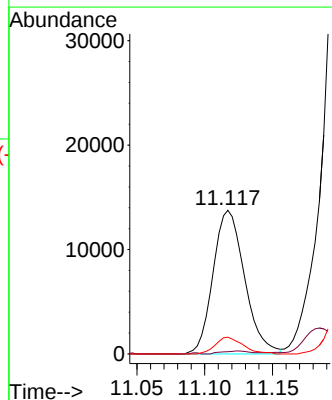
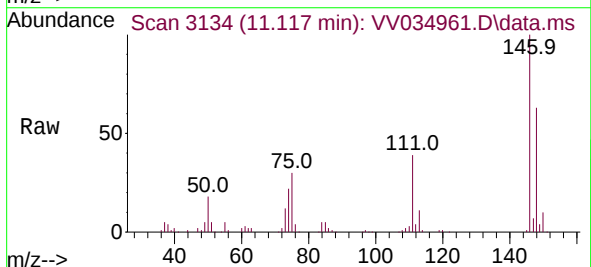
Instrument :
MSVOA_V
ClientSampleId :

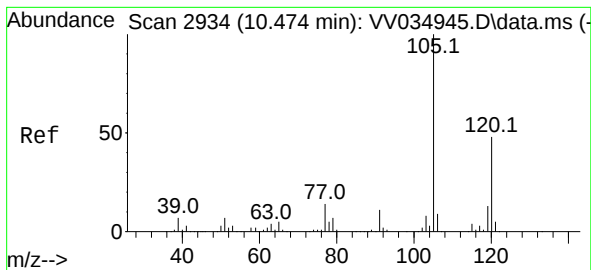
Tgt Ion:105 Resp: 20525
Ion Ratio Lower Upper
105 100
120 30.2 21.0 31.4
77 14.0 13.4 20.2



#61
1,2,3-Trichloropropane
Concen: 2.632 ug/L
RT: 11.117 min Scan# 3134
Delta R.T. 0.907 min
Lab File: VV034961.D
Acq: 03 Apr 2024 17:02

Tgt Ion: 75 Resp: 22256
Ion Ratio Lower Upper
75 100
77 31.6 24.8 37.2
110 10.2 31.0 46.6#





#62

1,3,5-Trimethylbenzene

Concen: 0.405 ug/L

RT: 10.477 min Scan# 2934

Delta R.T. 0.003 min

Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

Instrument :

MSVOA_V

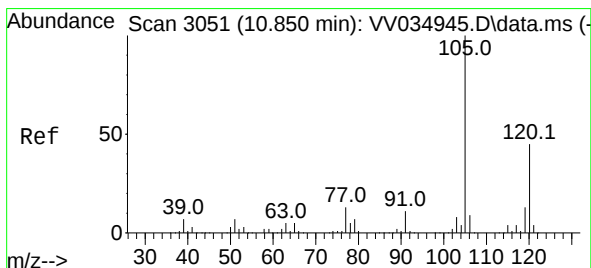
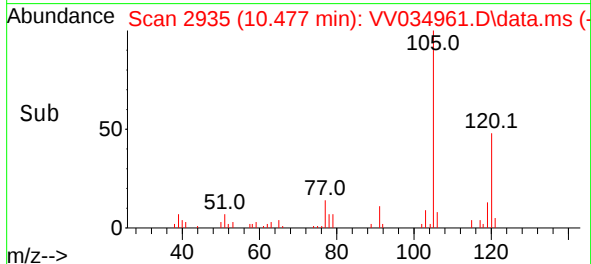
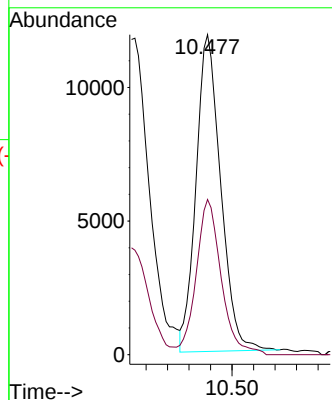
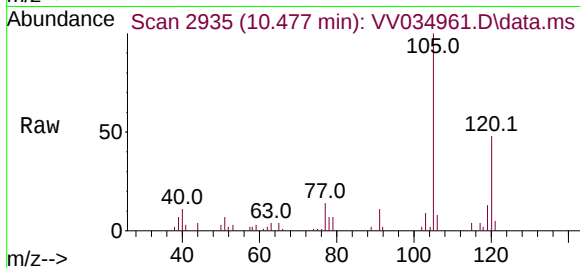
ClientSampleId :

Tgt Ion:105 Resp: 18851

Ion Ratio Lower Upper

105 100

120 49.6 39.2 58.8



#63

1,2,4-Trimethylbenzene

Concen: 1.092 ug/L

RT: 10.853 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VV034961.D

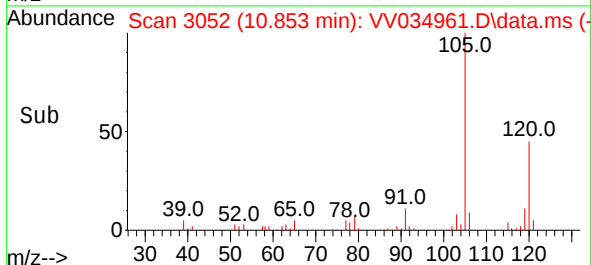
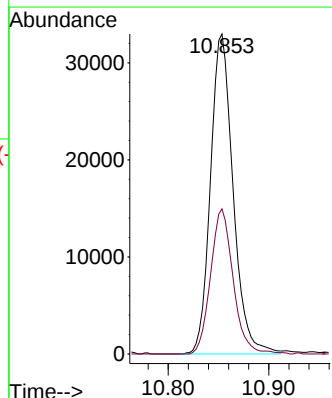
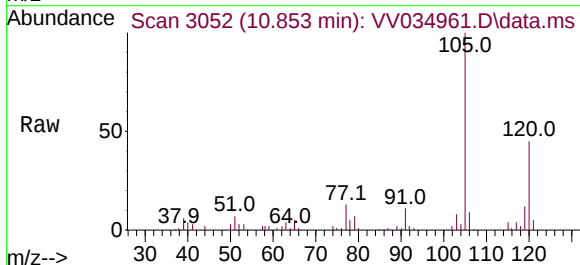
Acq: 03 Apr 2024 17:02

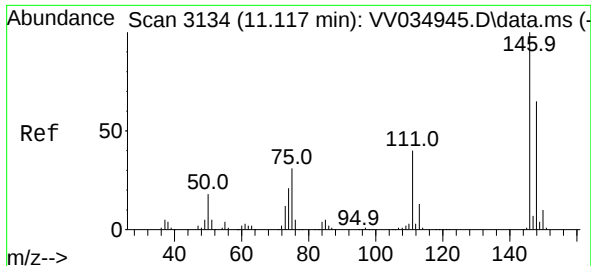
Tgt Ion:105 Resp: 51535

Ion Ratio Lower Upper

105 100

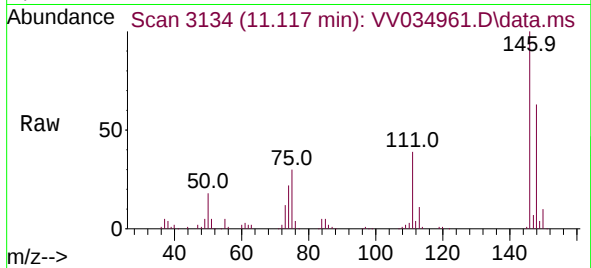
120 45.3 35.8 53.8



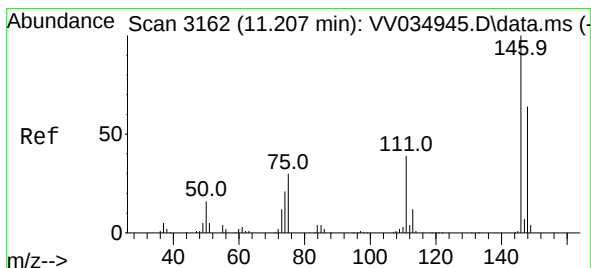
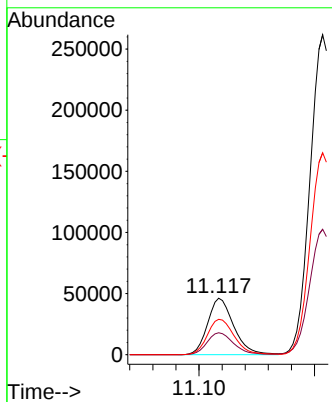
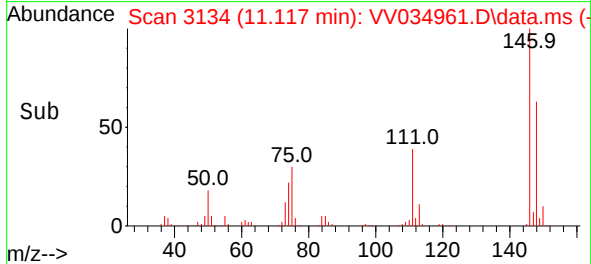


#64
1,3-Dichlorobenzene
Concen: 2.509 ug/L
RT: 11.117 min Scan# 3134
Delta R.T. 0.000 min
Lab File: VV034961.D
Acq: 03 Apr 2024 17:02

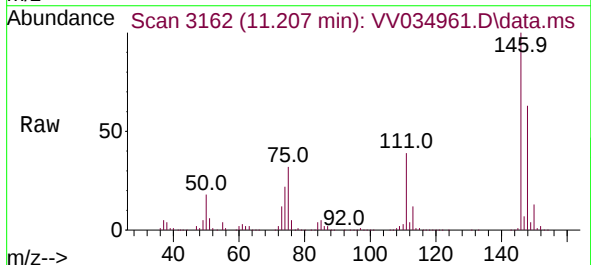
Instrument :
MSVOA_V
ClientSampleId :



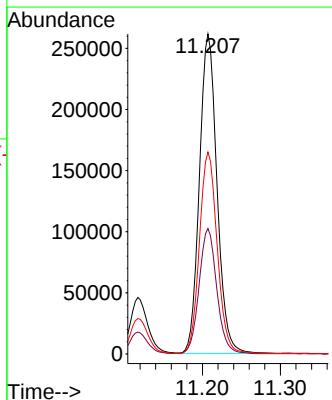
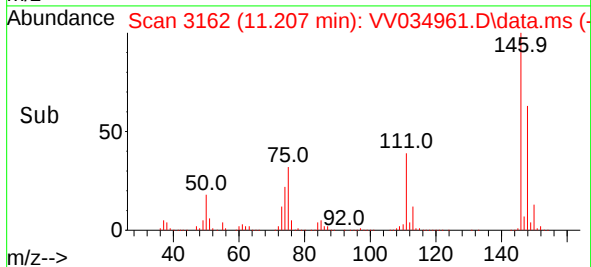
Tgt Ion:146 Resp: 72507
Ion Ratio Lower Upper
146 100
111 38.7 27.7 51.5
148 62.6 44.0 81.8

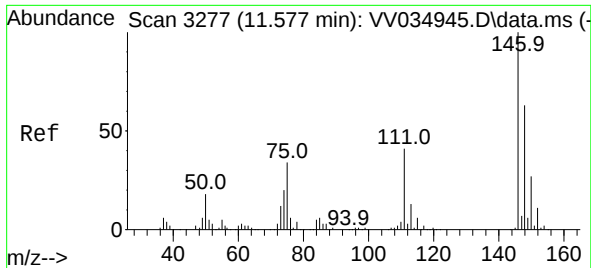


#65
1,4-Dichlorobenzene
Concen: 14.183 ug/L
RT: 11.207 min Scan# 3162
Delta R.T. 0.000 min
Lab File: VV034961.D
Acq: 03 Apr 2024 17:02



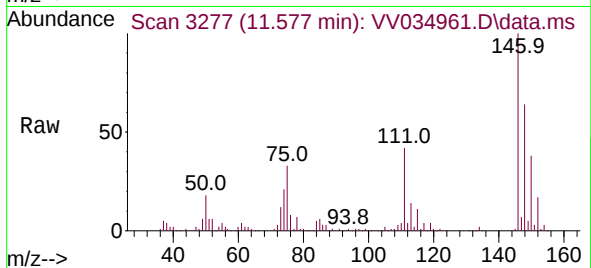
Tgt Ion:146 Resp: 410471
Ion Ratio Lower Upper
146 100
111 39.2 27.3 50.7
148 63.1 43.5 80.7



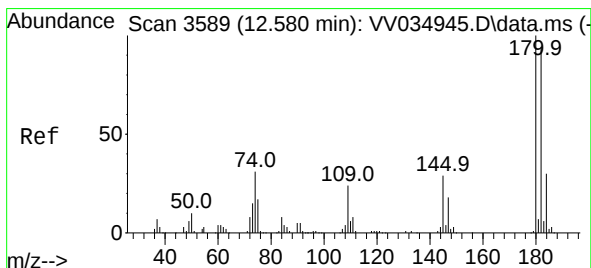
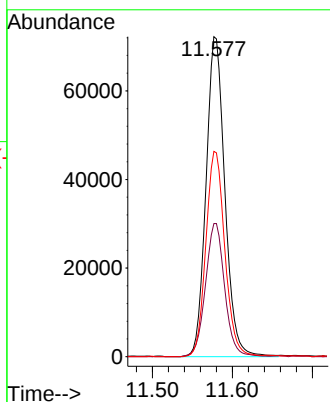
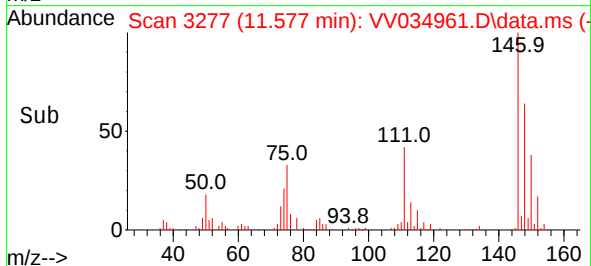


#67
1,2-Dichlorobenzene
Concen: 4.437 ug/L
RT: 11.577 min Scan# 31
Delta R.T. -0.000 min
Lab File: VV034961.D
Acq: 03 Apr 2024 17:02

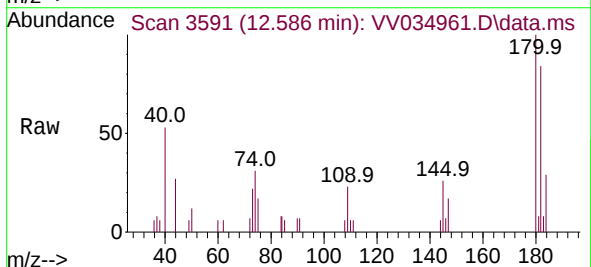
Instrument :
MSVOA_V
ClientSampleId :



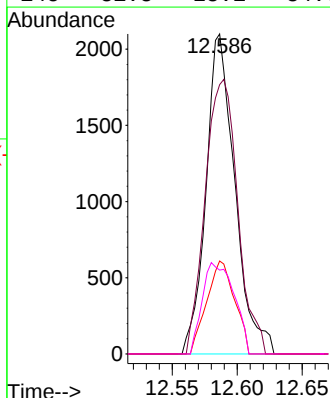
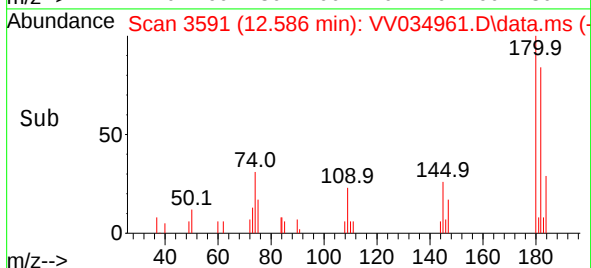
Tgt Ion:146 Resp: 118454
Ion Ratio Lower Upper
146 100
111 41.6 33.9 50.9
148 64.2 49.3 73.9

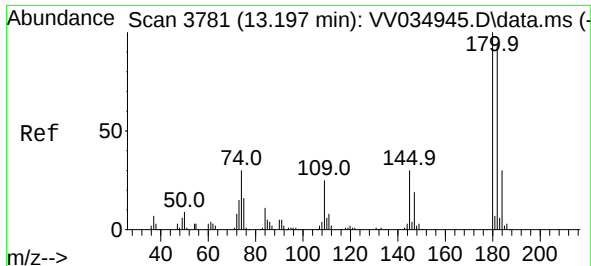


#69
1,3,5-Trichlorobenzene
Concen: 0.150 ug/L
RT: 12.586 min Scan# 3591
Delta R.T. 0.006 min
Lab File: VV034961.D
Acq: 03 Apr 2024 17:02



Tgt Ion:180 Resp: 3250
Ion Ratio Lower Upper
180 100
182 96.5 77.3 115.9
184 28.0 24.1 36.1
145 31.3 23.1 34.7





#70

1,2,4-trichlorobenzene

Concen: 100.314 ug/L

RT: 13.197 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

Instrument :

MSVOA_V

ClientSampleId :

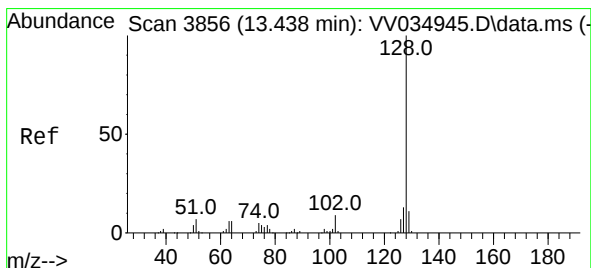
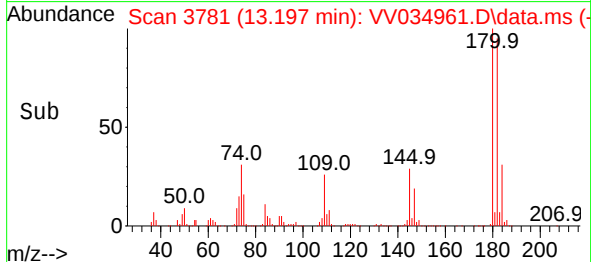
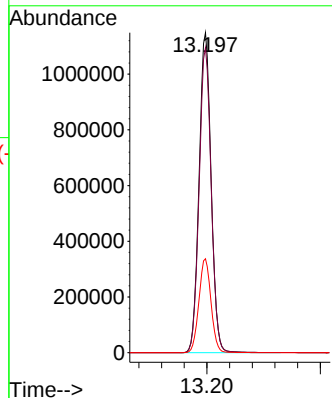
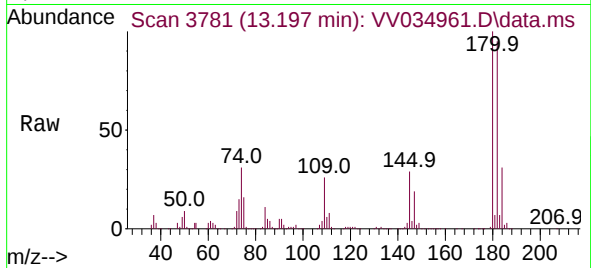
Tgt Ion:180 Resp: 1690729

Ion Ratio Lower Upper

180 100

182 95.5 75.3 112.9

145 29.5 23.4 35.0



#71

Naphthalene

Concen: 0.894 ug/L

RT: 13.445 min Scan# 3858

Delta R.T. 0.006 min

Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

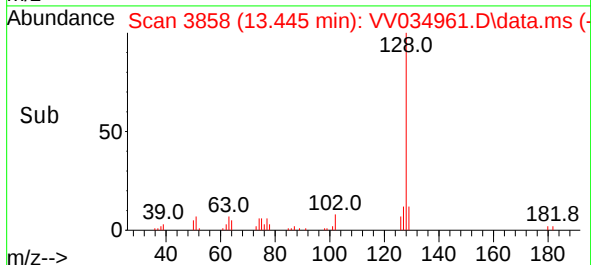
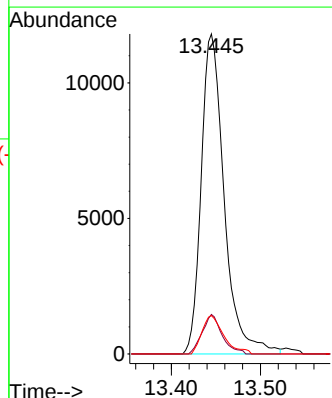
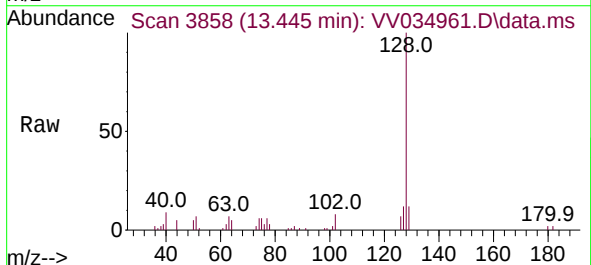
Tgt Ion:128 Resp: 21168

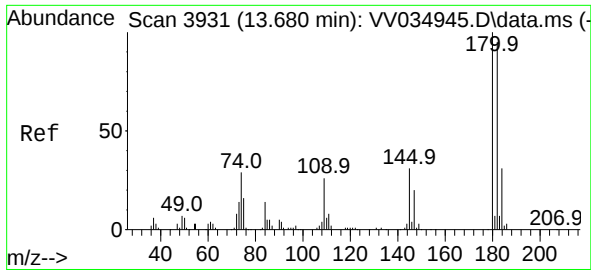
Ion Ratio Lower Upper

128 100

129 10.6 8.6 12.8

127 11.3 10.7 16.1





#72

1,2,3-Trichlorobenzene

Concen: 19.424 ug/L

RT: 13.680 min Scan# 3931

Delta R.T. 0.000 min

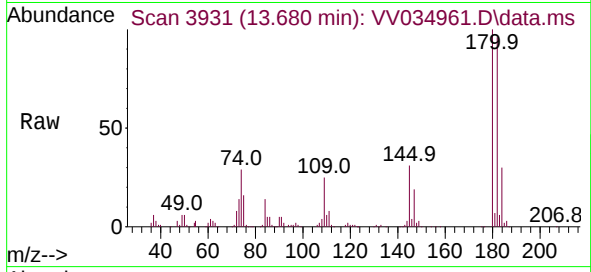
Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:180 Resp: 287918

Ion Ratio Lower Upper

180 100

182 95.5 77.0 115.4

145 31.5 25.4 38.2

