

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV060624\
 Data File : VV035985.D
 Acq On : 06 Jun 2024 14:19
 Operator : SY/MD
 Sample : P2754-14
 Misc : 5.00g/10.0mL/MSVOA_V/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jun 07 02:19:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM053024SMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 07 02:16:44 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	520430	25.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	501848	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.181	152	260176	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.272	65	178508	18.657	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	74.640%
7) Chloroethane-d5	1.526	69	148653	19.485	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	77.920%
11) 1,1-Dichloroethene-d2	2.050	65	82750	19.427	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	77.720%
21) 2-Butanone-d5	3.857	46	96766	44.079	ug/L	0.02
Spiked Amount	50.000	Range	20 - 135	Recovery	=	88.160%
24) Chloroform-d	4.243	84	337574	20.403	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	81.600%
26) 1,2-Dichloroethane-d4	4.941	65	176024	20.291	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	81.160%
32) Benzene-d6	4.957	84	640028	21.455	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	85.840%
36) 1,2-Dichloropropane-d6	5.985	67	204785	21.799	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	87.200%
41) Toluene-d8	7.239	98	592888	22.525	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.120%
43) trans-1,3-Dichloroprop...	7.551	79	84707	21.992	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	87.960%
47) 2-Hexanone-d5	8.030	63	60867	47.822	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.640%
56) 1,1,2,2-Tetrachloroeth...	10.149	84	152645	21.745	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	86.960%
66) 1,2-Dichlorobenzene-d4	11.558	152	196497	20.595	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	82.400%
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	2.053	101	3552	0.398	ug/L #	31
12) 1,1-Dichloroethene	2.060	96	323375	38.802	ug/L	89
16) Methylene chloride	2.439	84	285389	24.234	ug/L	99
17) trans-1,2-Dichloroethene	2.687	96	690845	78.037	ug/L	98
18) Methyl tert-butyl Ether	2.703	73	1704954	85.787	ug/L	100
19) 1,1-Dichloroethane	3.105	63	399461	23.694	ug/L	99
20) cis-1,2-Dichloroethene	3.809	96	382510	43.000	ug/L	99
22) 2-Butanone	3.889	43	535584	184.582	ug/L #	75
25) Chloroform	4.269	83	472981	27.273	ug/L	99
27) 1,2-Dichloroethane	5.034	62	697276	64.400	ug/L	100
33) Benzene	5.002	78	2752177	83.851	ug/L	100
34) Trichloroethene	5.828	95	931764	92.625	ug/L	100
35) Methylcyclohexane	6.085	83	5215	0.375	ug/L #	27
37) 1,2-Dichloropropane	6.088	63	811065	94.108	ug/L	100
39) cis-1,3-Dichloropropene	6.950	75	622919	48.324	ug/L	99
40) 4-Methyl-2-pentanone	7.159	43	460611	98.370	ug/L	97
44) trans-1,3-Dichloropropene	7.577	75	460675	41.375	ug/L	97
46) Tetrachloroethene	7.902	164	168493	22.902	ug/L	98
49) Dibromochloromethane	8.172	129	316631	40.570	ug/L	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV060624\
 Data File : VV035985.D
 Acq On : 06 Jun 2024 14:19
 Operator : SY/MD
 Sample : P2754-14
 Misc : 5.00g/10.0mL/MSVOA_V/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jun 07 02:19:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM053024SMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 07 02:16:44 2024
 Response via : Initial Calibration

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

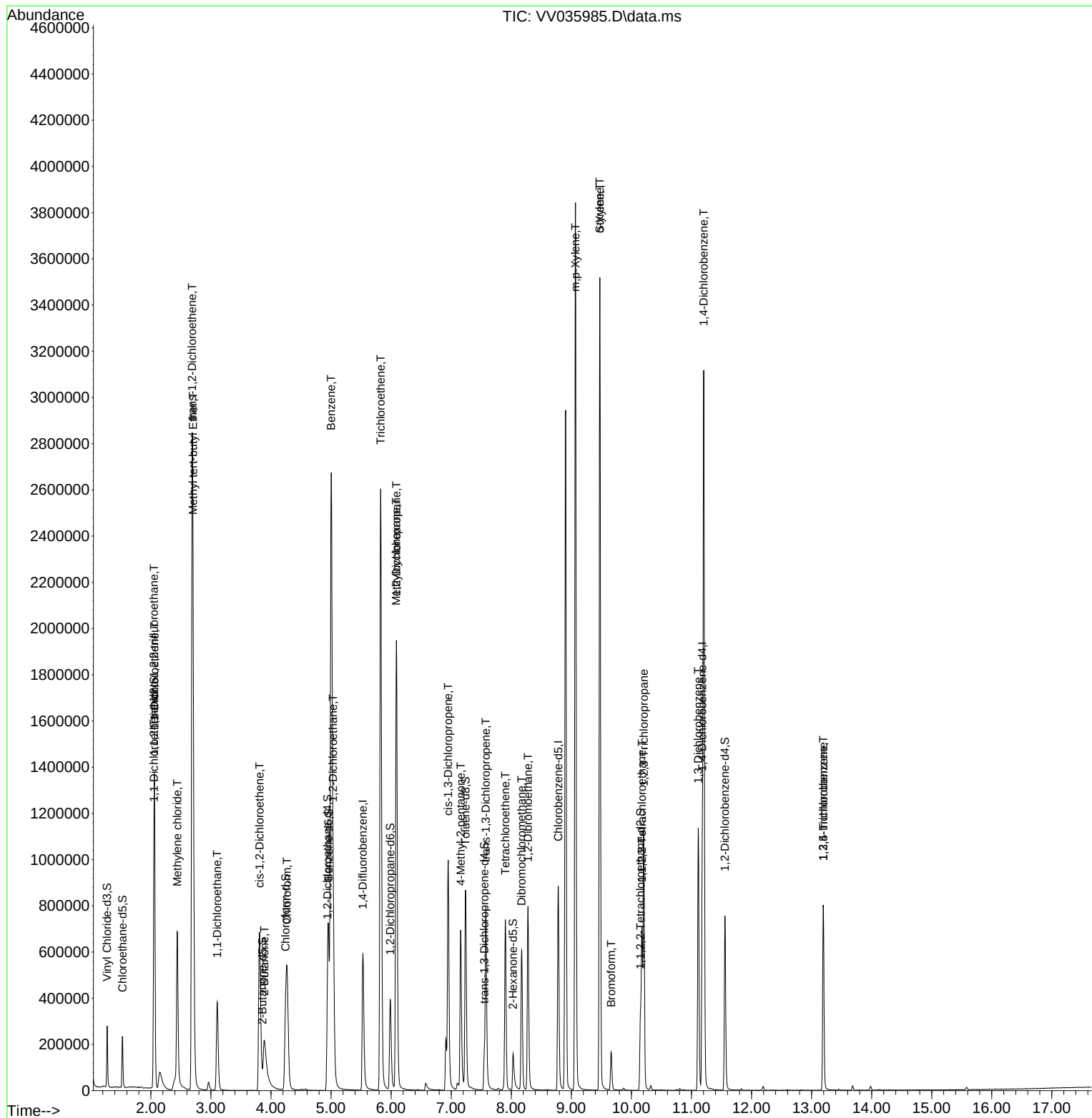
50) 1,2-Dibromoethane	8.278	107	533496	77.969	ug/L	100
53) m,p-Xylene	9.069	106	1016670	75.404	ug/L	99
54) o-Xylene	9.474	106	875909	68.889	ug/L	99
55) Styrene	9.474	104	50382	2.247	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.175	83	350767	54.934	ug/L	99
59) Bromoform	9.664	173	75993	15.488	ug/L	99
61) 1,2,3-Trichloropropane	10.207	75	462285	75.127	ug/L	97
64) 1,3-Dichlorobenzene	11.114	146	460564	26.274	ug/L	99
65) 1,4-Dichlorobenzene	11.204	146	1178707	65.146	ug/L	99
69) 1,3,5-Trichlorobenzene	13.194	180	249640	19.039	ug/L	100
70) 1,2,4-trichlorobenzene	13.194	180	249640	24.180	ug/L	100

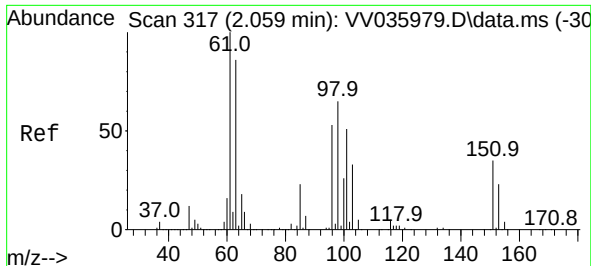
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV060624\
Data File : VV035985.D
Acq On : 06 Jun 2024 14:19
Operator : SY/MD
Sample : P2754-14
Misc : 5.00g/10.0mL/MSVOA_V/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :

Quant Time: Jun 07 02:19:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM053024SMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jun 07 02:16:44 2024
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.398 ug/L

RT: 2.053 min Scan# 317

Delta R.T. -0.006 min

Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

Instrument :

MSVOA_V

ClientSampleId :

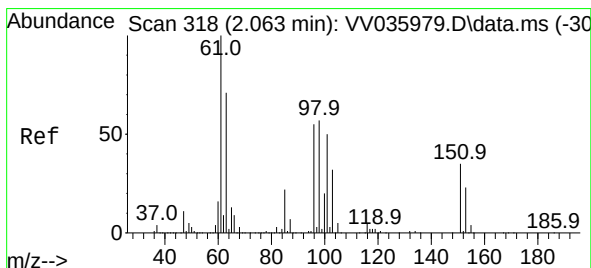
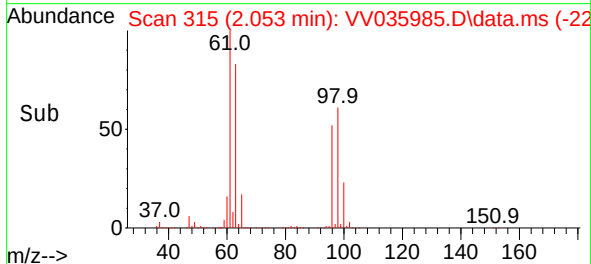
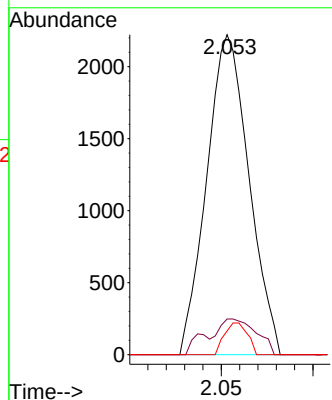
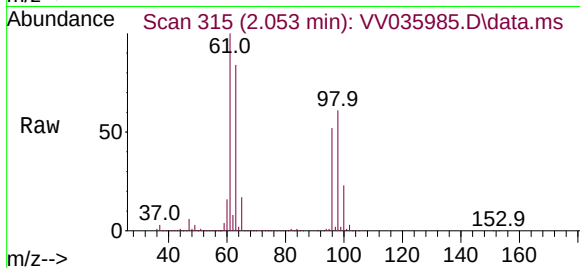
Tgt Ion:101 Resp: 3552

Ion Ratio Lower Upper

101 100

85 10.0 34.5 51.7#

151 5.4 56.3 84.5#



#12

1,1-Dichloroethene

Concen: 38.802 ug/L

RT: 2.060 min Scan# 317

Delta R.T. -0.003 min

Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

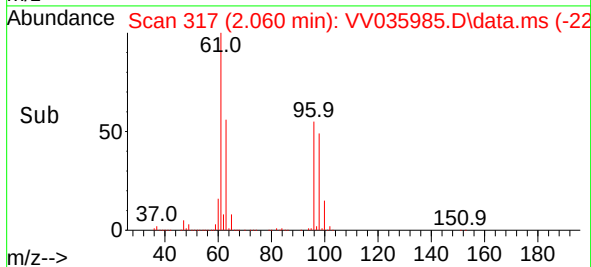
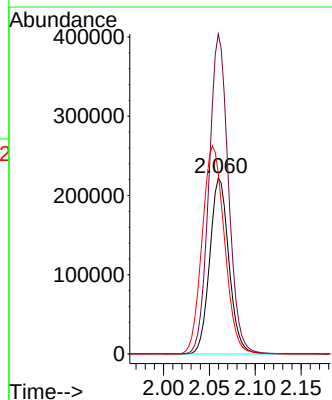
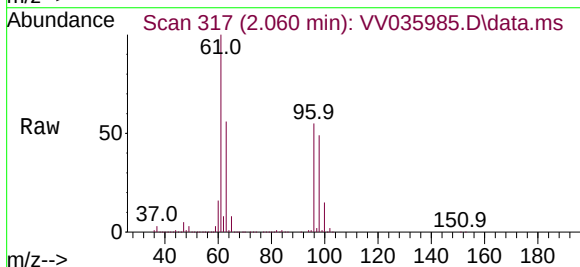
Tgt Ion: 96 Resp: 323375

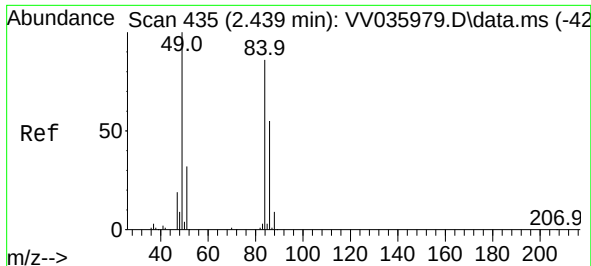
Ion Ratio Lower Upper

96 100

61 182.0 127.3 236.3

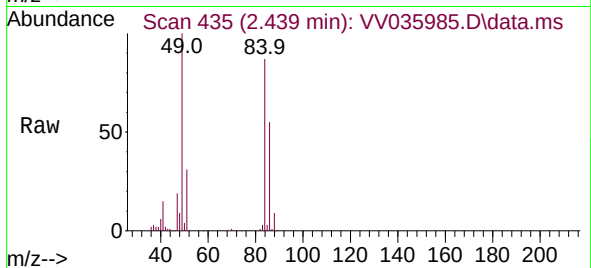
63 102.8 93.7 173.9





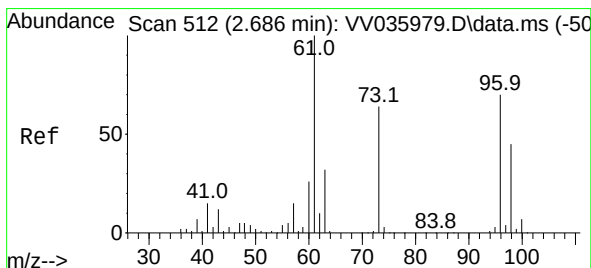
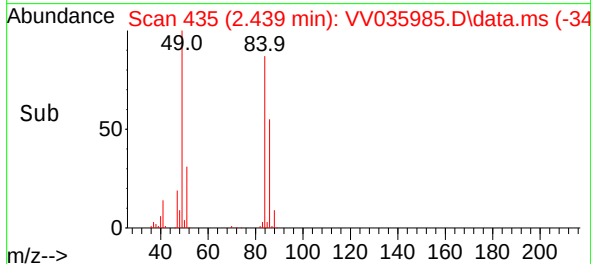
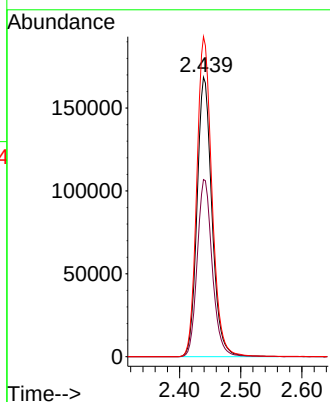
#16
Methylene chloride
Concen: 24.234 ug/L
RT: 2.439 min Scan# 41
Delta R.T. 0.000 min
Lab File: VV035985.D
Acq: 06 Jun 2024 14:19

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion: 84 Resp: 285389

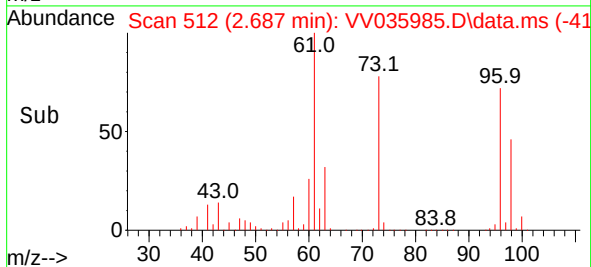
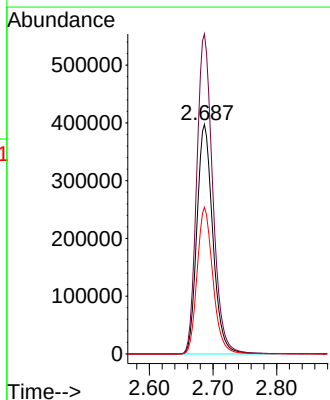
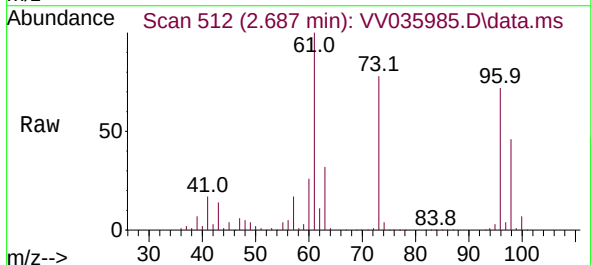
Ion	Ratio	Lower	Upper
84	100		
86	63.3	44.6	82.8
49	114.5	81.1	150.5

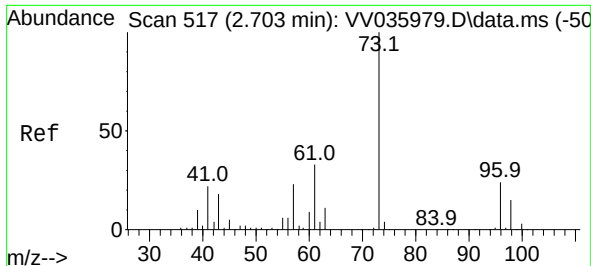


#17
trans-1,2-Dichloroethene
Concen: 78.037 ug/L
RT: 2.687 min Scan# 512
Delta R.T. 0.000 min
Lab File: VV035985.D
Acq: 06 Jun 2024 14:19

Tgt Ion: 96 Resp: 690845

Ion	Ratio	Lower	Upper
96	100		
61	139.4	99.4	184.6
98	63.9	44.9	83.3





#18

Methyl tert-butyl Ether

Concen: 85.787 ug/L

RT: 2.703 min Scan# 517

Delta R.T. 0.000 min

Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

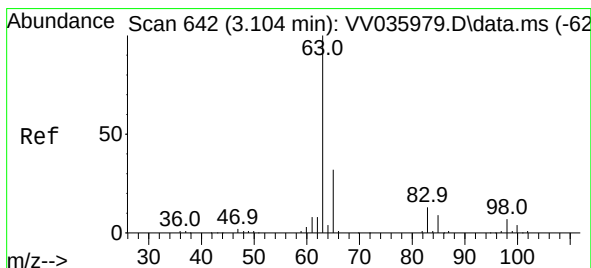
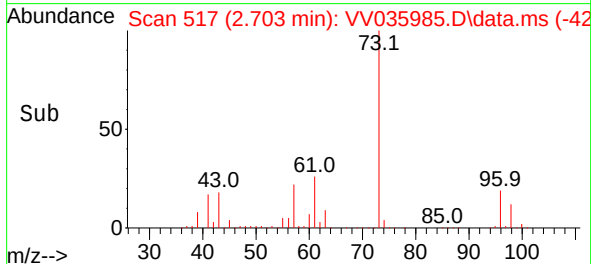
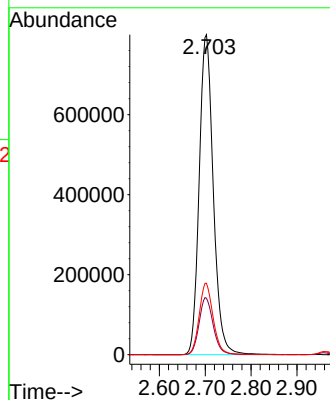
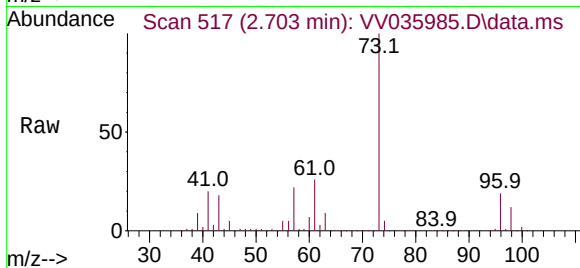
Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 73 Resp: 1704954

Ion	Ratio	Lower	Upper
73	100		
43	17.8	14.3	21.5
57	22.2	17.8	26.6



#19

1,1-Dichloroethane

Concen: 23.694 ug/L

RT: 3.105 min Scan# 642

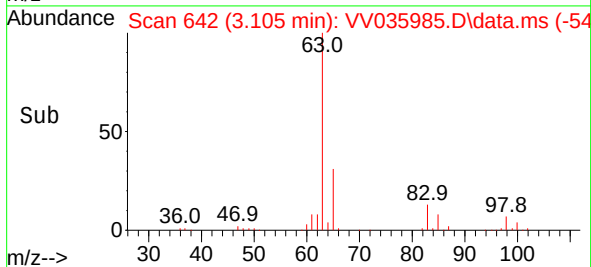
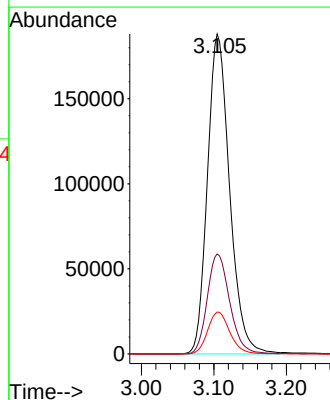
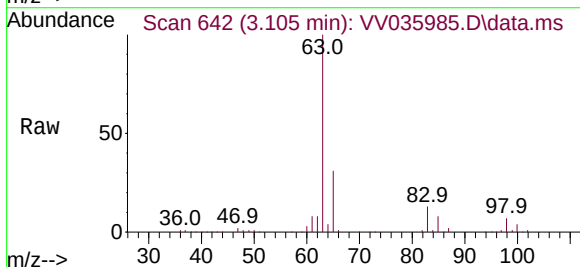
Delta R.T. 0.000 min

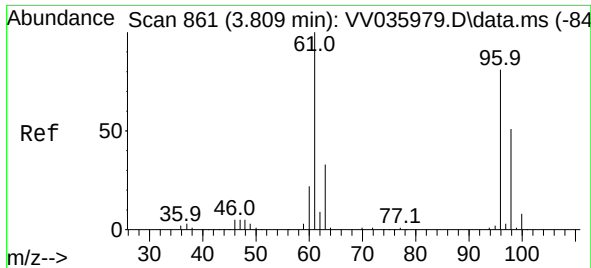
Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

Tgt Ion: 63 Resp: 399461

Ion	Ratio	Lower	Upper
63	100		
65	31.2	22.4	41.6
83	13.1	9.2	17.0

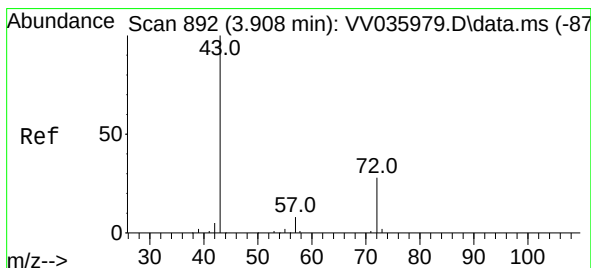
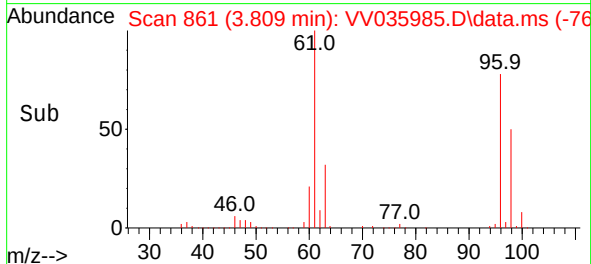
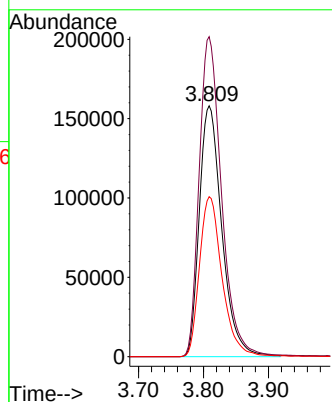
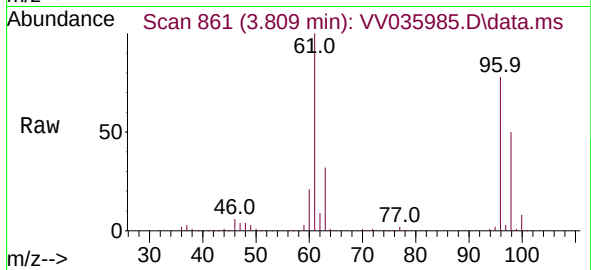




#20
 cis-1,2-Dichloroethene
 Concen: 43.000 ug/L
 RT: 3.809 min Scan# 80
 Delta R.T. 0.000 min
 Lab File: VV035985.D
 Acq: 06 Jun 2024 14:19

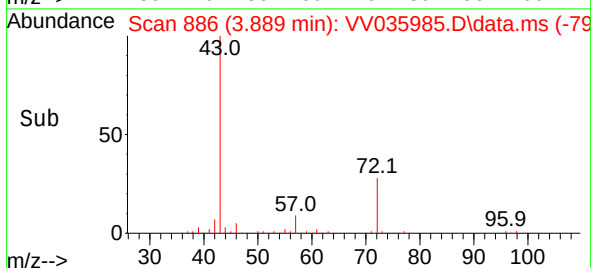
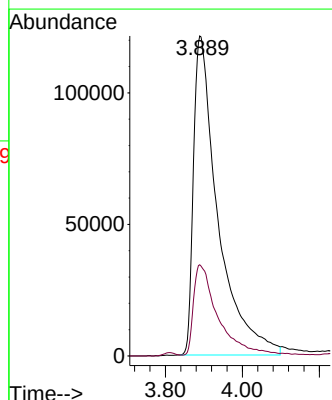
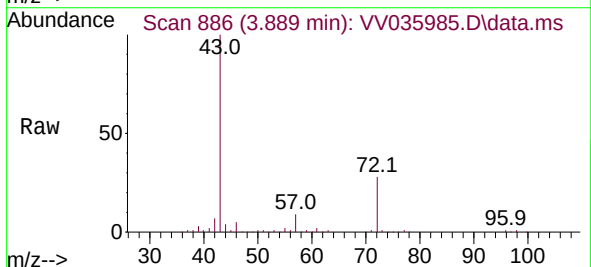
Instrument :
 MSVOA_V
 ClientSampleId :

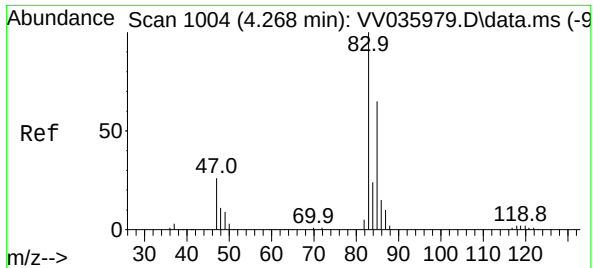
Tgt Ion: 96 Resp: 382510
 Ion Ratio Lower Upper
 96 100
 61 127.5 87.9 163.3
 98 63.7 44.4 82.5



#22
 2-Butanone
 Concen: 184.582 ug/L
 RT: 3.889 min Scan# 886
 Delta R.T. -0.019 min
 Lab File: VV035985.D
 Acq: 06 Jun 2024 14:19

Tgt Ion: 43 Resp: 535584
 Ion Ratio Lower Upper
 43 100
 72 27.0 8.2 24.4#





#25

Chloroform

Concen: 27.273 ug/L

RT: 4.269 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

Instrument :

MSVOA_V

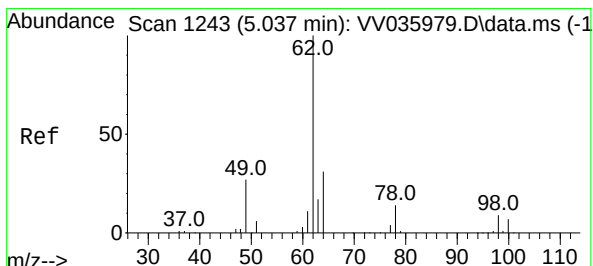
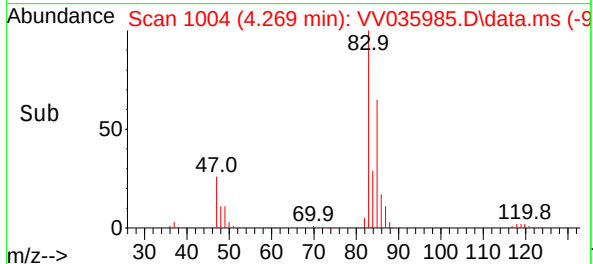
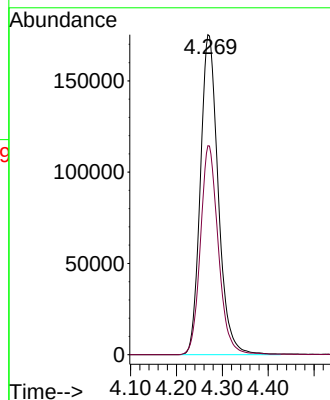
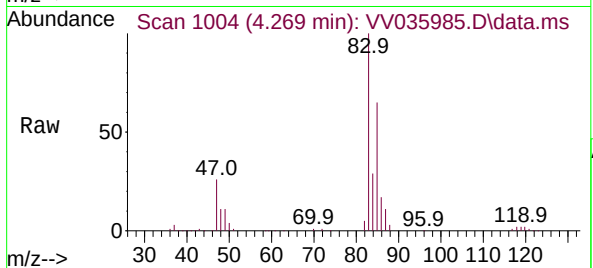
ClientSampleId :

Tgt Ion: 83 Resp: 472981

Ion Ratio Lower Upper

83 100

85 65.3 45.2 84.0



#27

1,2-Dichloroethane

Concen: 64.400 ug/L

RT: 5.034 min Scan# 1242

Delta R.T. -0.003 min

Lab File: VV035985.D

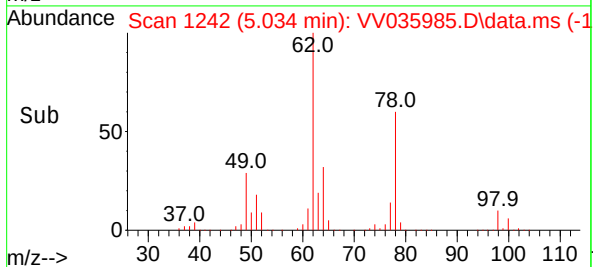
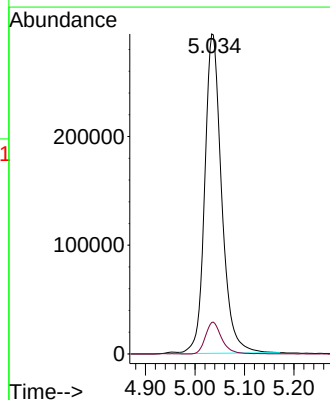
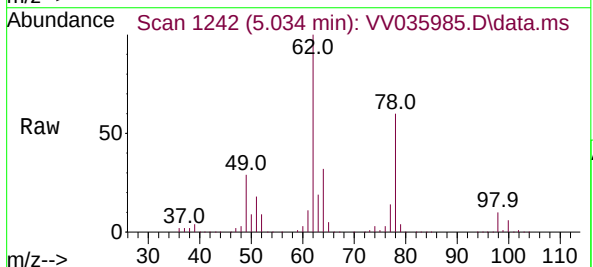
Acq: 06 Jun 2024 14:19

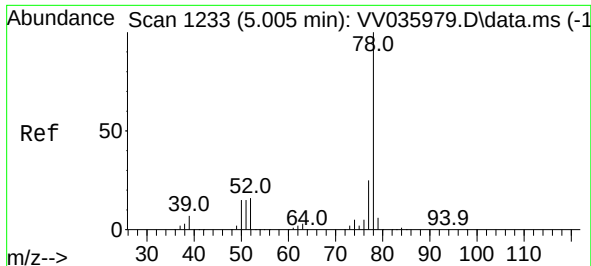
Tgt Ion: 62 Resp: 697276

Ion Ratio Lower Upper

62 100

98 9.9 7.8 11.6





#33

Benzene

Concen: 83.851 ug/L

RT: 5.002 min Scan# 1233

Delta R.T. -0.003 min

Lab File: VV035985.D

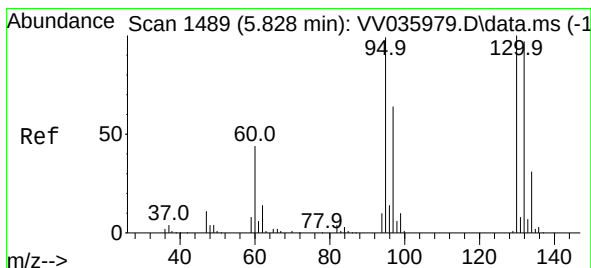
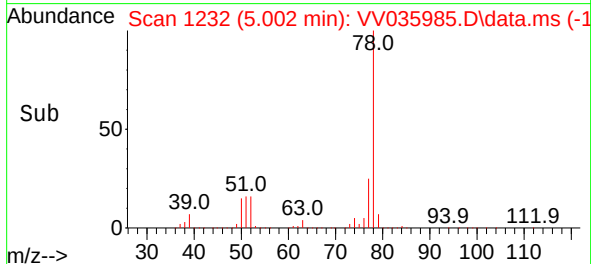
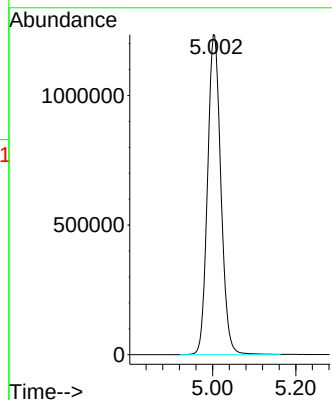
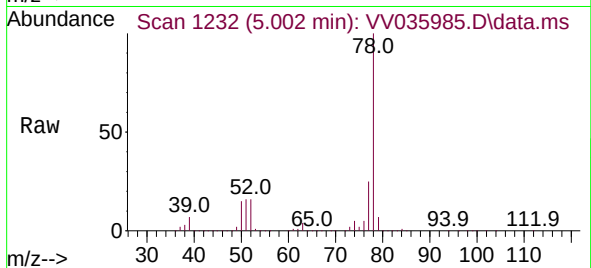
Acq: 06 Jun 2024 14:19

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 78 Resp: 2752177



#34

Trichloroethene

Concen: 92.625 ug/L

RT: 5.828 min Scan# 1489

Delta R.T. 0.000 min

Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

Tgt Ion: 95 Resp: 931764

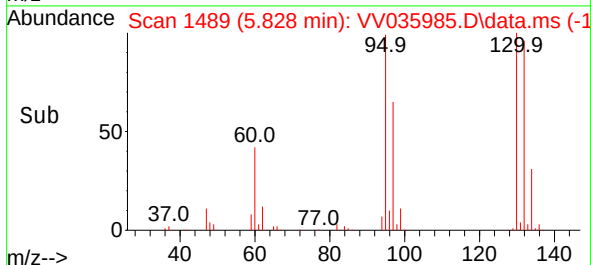
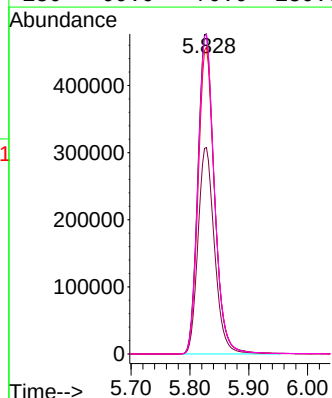
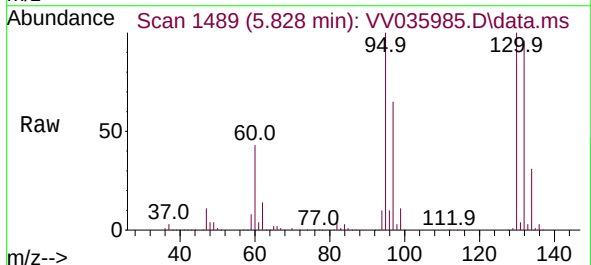
Ion Ratio Lower Upper

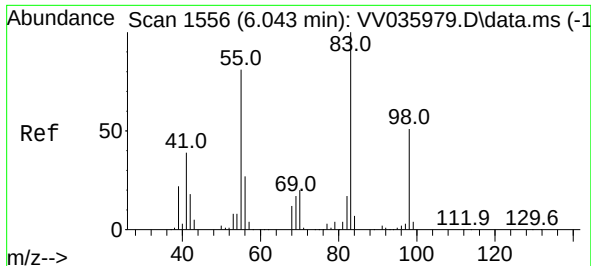
95 100

97 64.5 44.8 83.2

132 95.9 66.8 124.2

130 99.9 70.0 130.0





#35

Methylcyclohexane

Concen: 0.375 ug/L

RT: 6.085 min Scan# 1569

Delta R.T. 0.042 min

Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

Instrument :

MSVOA_V

ClientSampleId :

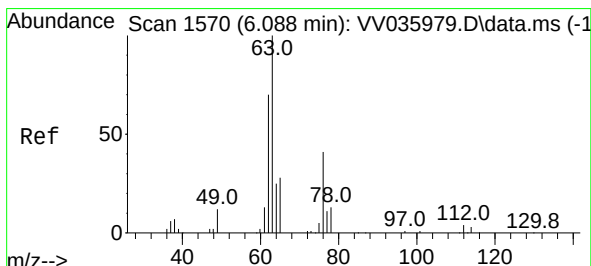
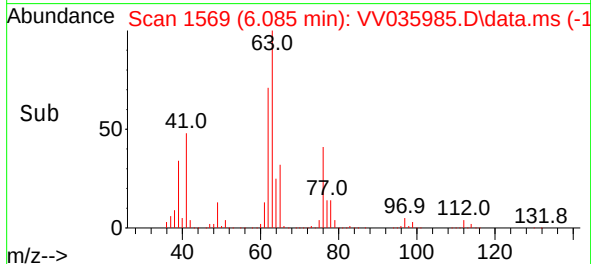
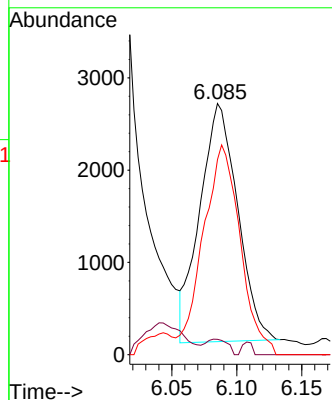
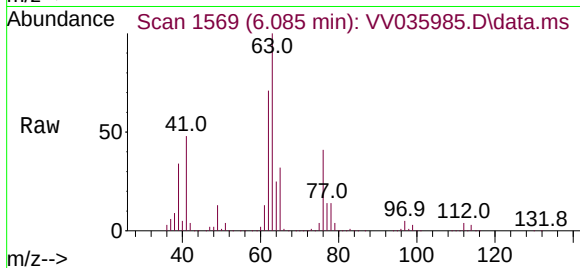
Tgt Ion: 83 Resp: 5215

Ion Ratio Lower Upper

83 100

55 3.7 60.7 91.1#

98 86.5 38.7 58.1#



#37

1,2-Dichloropropane

Concen: 94.108 ug/L

RT: 6.088 min Scan# 1570

Delta R.T. 0.000 min

Lab File: VV035985.D

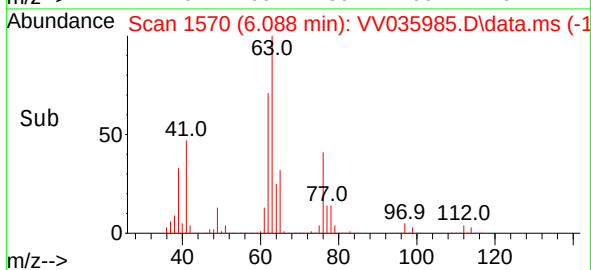
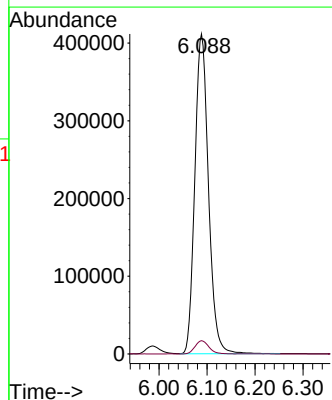
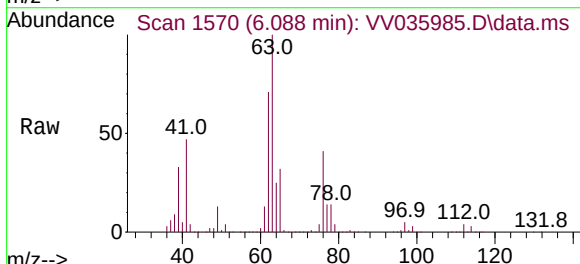
Acq: 06 Jun 2024 14:19

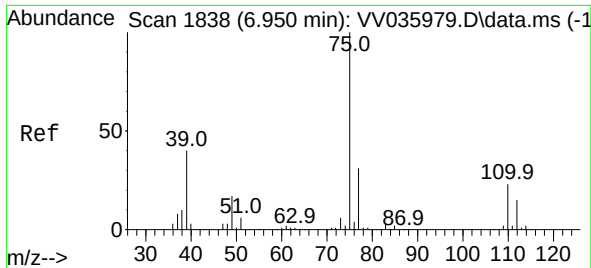
Tgt Ion: 63 Resp: 811065

Ion Ratio Lower Upper

63 100

112 4.2 3.5 5.3





#39

cis-1,3-Dichloropropene

Concen: 48.324 ug/L

RT: 6.950 min Scan# 1838

Delta R.T. 0.000 min

Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

Instrument :

MSVOA_V

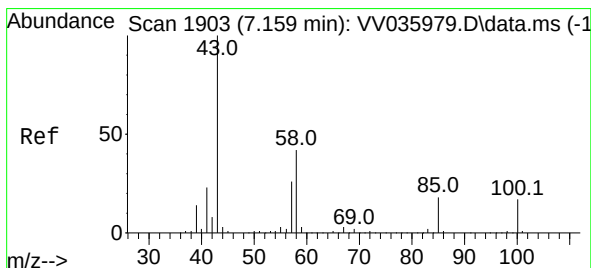
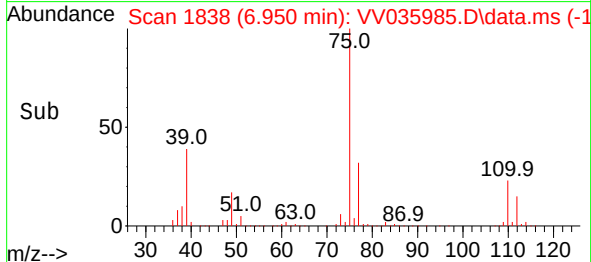
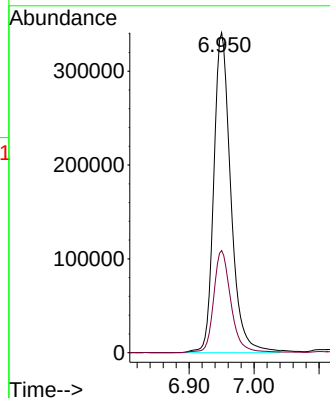
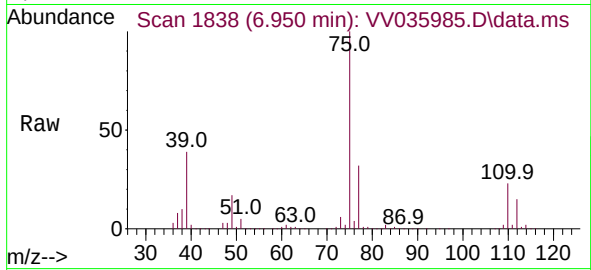
ClientSampleId :

Tgt Ion: 75 Resp: 622919

Ion Ratio Lower Upper

75 100

77 31.9 22.1 41.1



#40

4-Methyl-2-pentanone

Concen: 98.370 ug/L

RT: 7.159 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

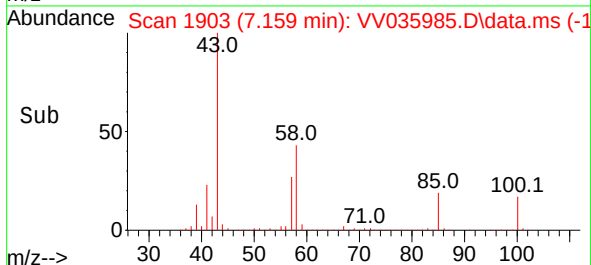
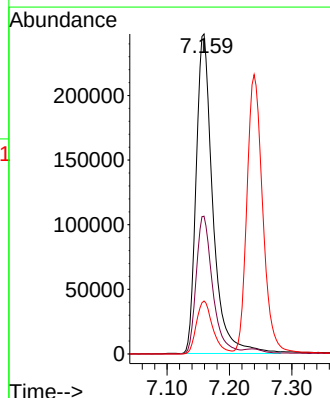
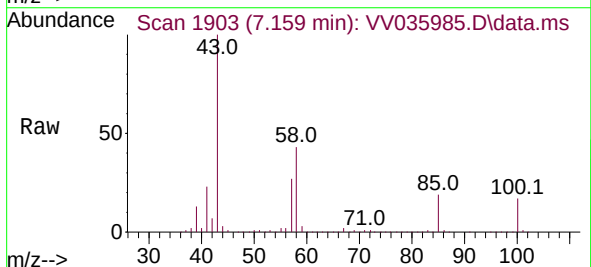
Tgt Ion: 43 Resp: 460611

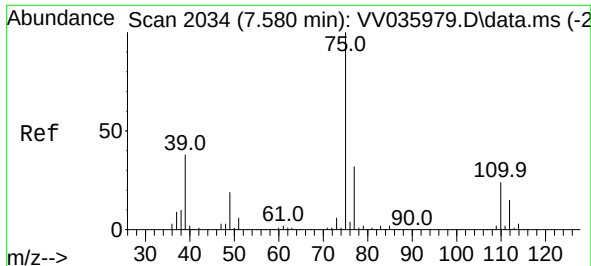
Ion Ratio Lower Upper

43 100

58 42.4 32.5 48.7

100 16.2 12.5 18.7

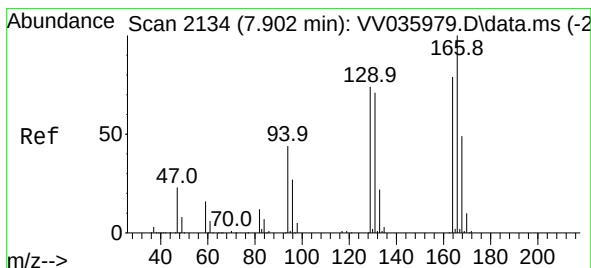
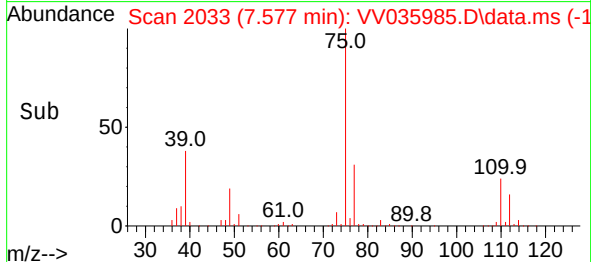
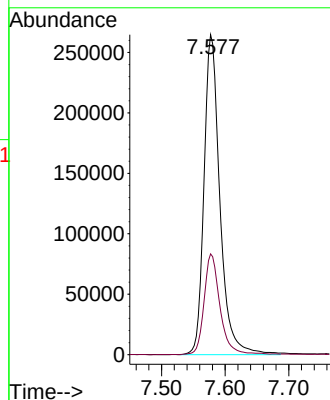
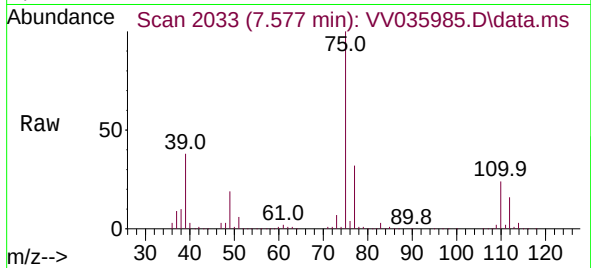




#44
trans-1,3-Dichloropropene
Concen: 41.375 ug/L
RT: 7.577 min Scan# 2034
Delta R.T. -0.003 min
Lab File: VV035985.D
Acq: 06 Jun 2024 14:19

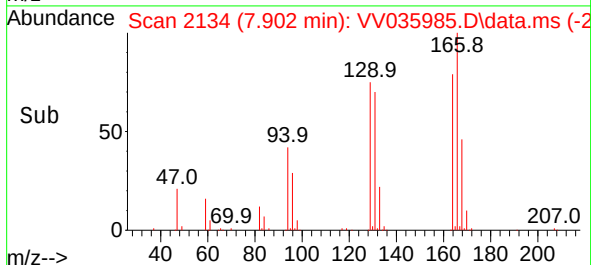
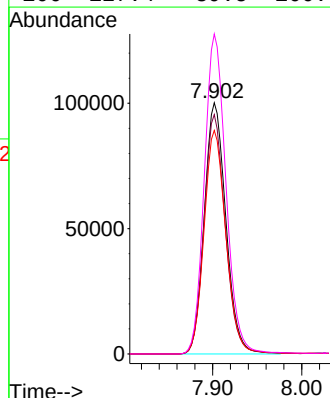
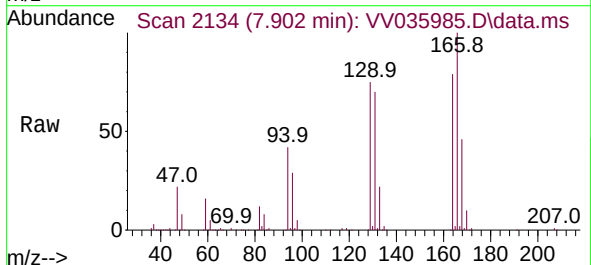
Instrument :
MSVOA_V
ClientSampleId :

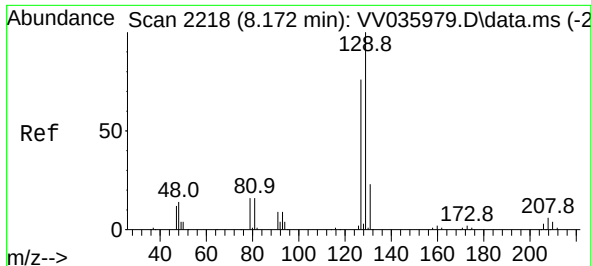
Tgt Ion: 75 Resp: 460675
Ion Ratio Lower Upper
75 100
77 31.5 23.1 42.9



#46
Tetrachloroethene
Concen: 22.902 ug/L
RT: 7.902 min Scan# 2134
Delta R.T. 0.000 min
Lab File: VV035985.D
Acq: 06 Jun 2024 14:19

Tgt Ion:164 Resp: 168493
Ion Ratio Lower Upper
164 100
129 95.2 64.6 120.0
131 88.9 63.2 117.4
166 127.4 89.5 166.3





#49

Dibromochloromethane

Concen: 40.570 ug/L

RT: 8.172 min Scan# 2218

Delta R.T. 0.000 min

Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

Instrument :

MSVOA_V

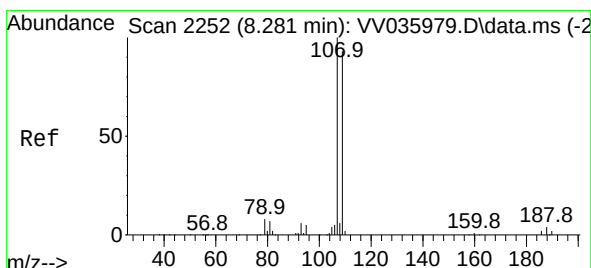
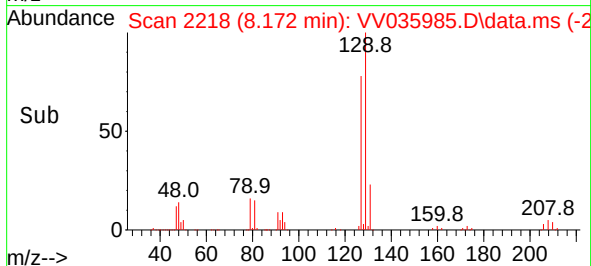
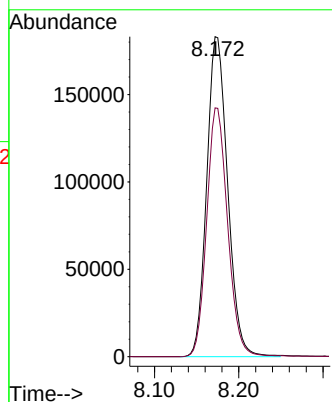
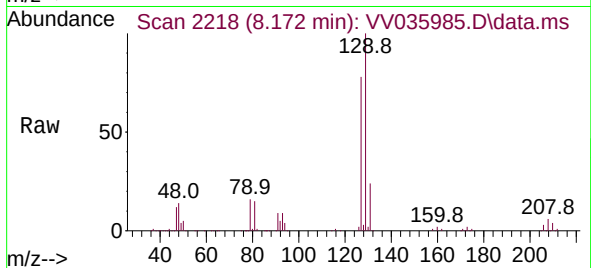
ClientSampleId :

Tgt Ion:129 Resp: 316631

Ion Ratio Lower Upper

129 100

127 77.7 53.9 100.1



#50

1,2-Dibromoethane

Concen: 77.969 ug/L

RT: 8.278 min Scan# 2251

Delta R.T. -0.003 min

Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

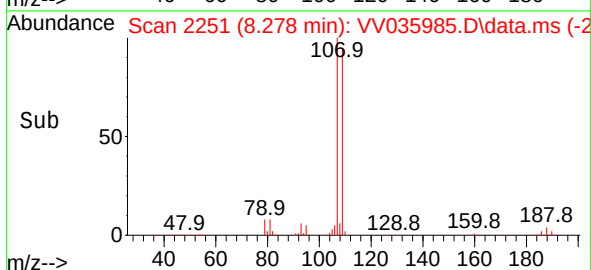
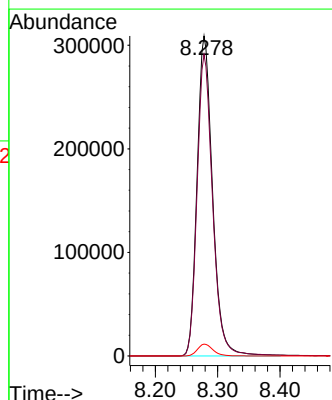
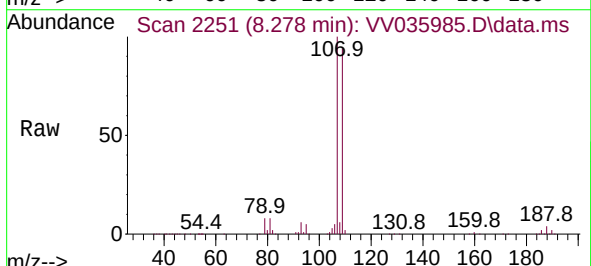
Tgt Ion:107 Resp: 533496

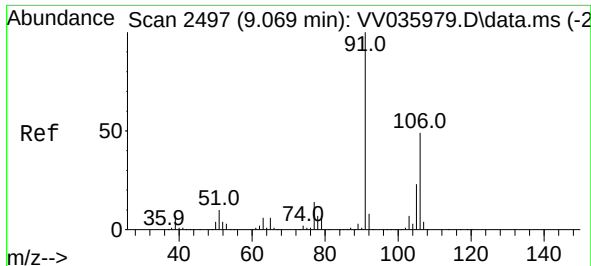
Ion Ratio Lower Upper

107 100

109 94.2 66.1 122.7

188 3.7 3.0 4.6





#53

m,p-Xylene

Concen: 75.404 ug/L

RT: 9.069 min Scan# 2497

Delta R.T. 0.000 min

Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

Instrument :

MSVOA_V

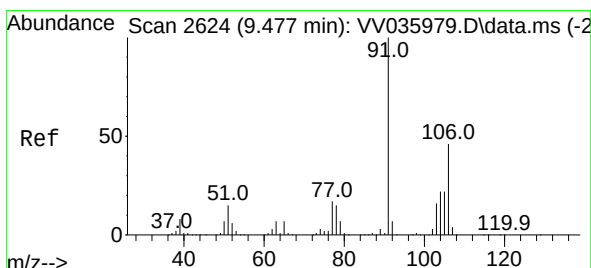
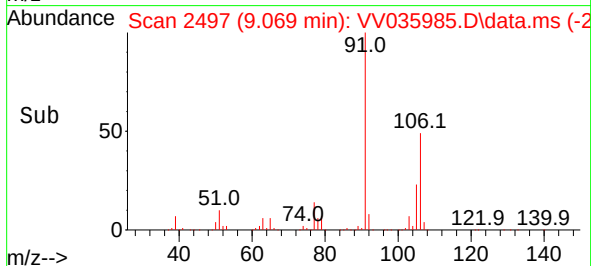
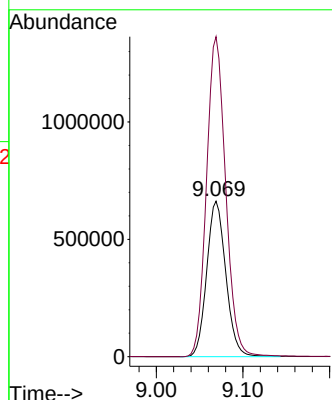
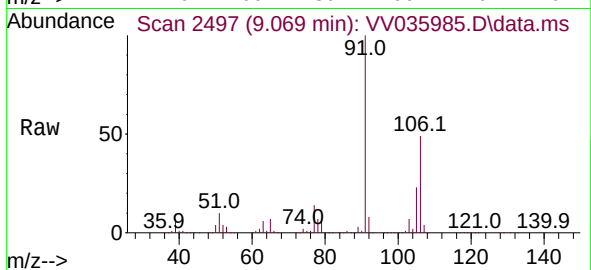
ClientSampleId :

Tgt Ion:106 Resp: 1016670

Ion Ratio Lower Upper

106 100

91 205.8 143.1 265.9



#54

o-Xylene

Concen: 68.889 ug/L

RT: 9.474 min Scan# 2623

Delta R.T. -0.003 min

Lab File: VV035985.D

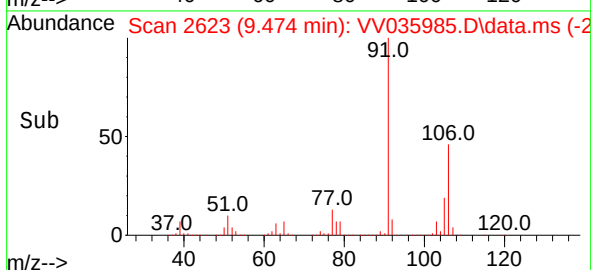
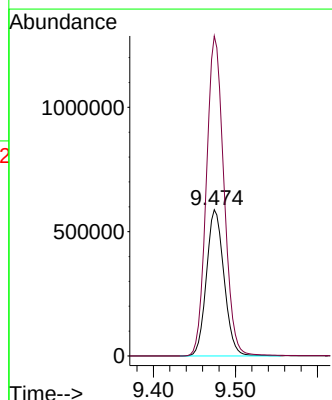
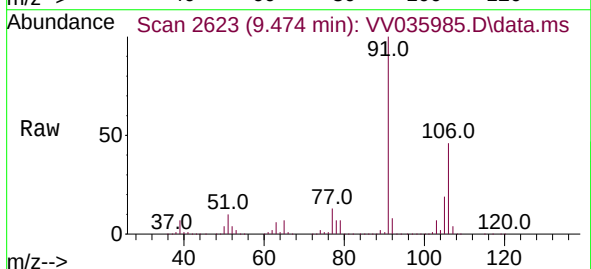
Acq: 06 Jun 2024 14:19

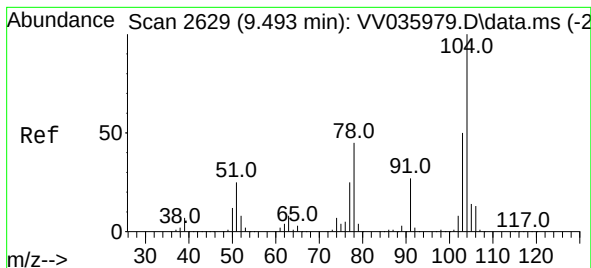
Tgt Ion:106 Resp: 875909

Ion Ratio Lower Upper

106 100

91 218.7 154.5 286.9





#55

Styrene

Concen: 2.247 ug/L

RT: 9.474 min Scan# 2

Delta R.T. -0.019 min

Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

Instrument :

MSVOA_V

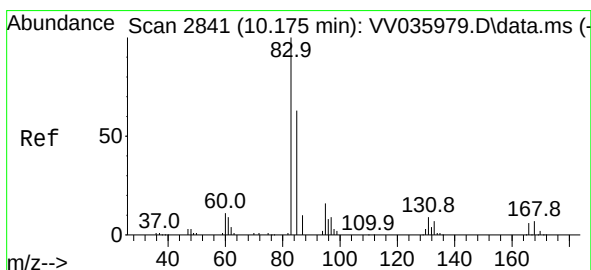
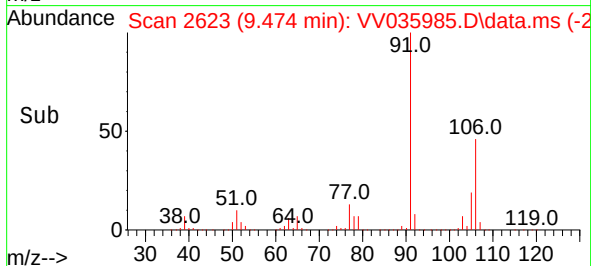
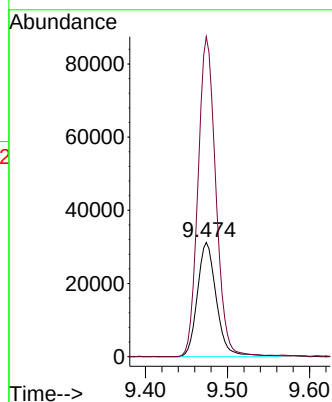
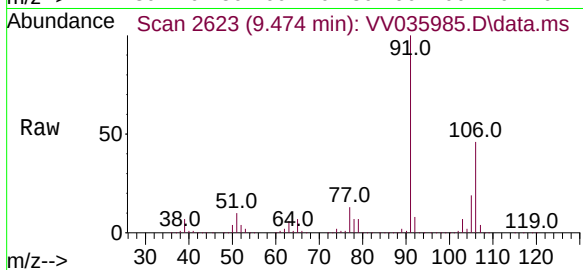
ClientSampleId :

Tgt Ion:104 Resp: 50382

Ion Ratio Lower Upper

104 100

78 280.0 31.4 58.2#



#57

1,1,2,2-Tetrachloroethane

Concen: 54.934 ug/L

RT: 10.175 min Scan# 2841

Delta R.T. 0.000 min

Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

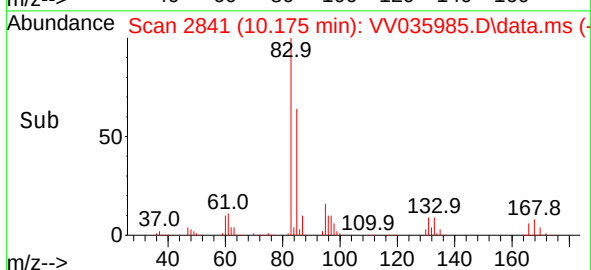
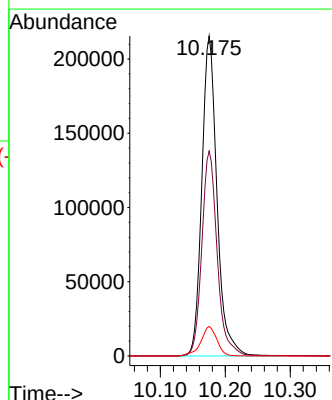
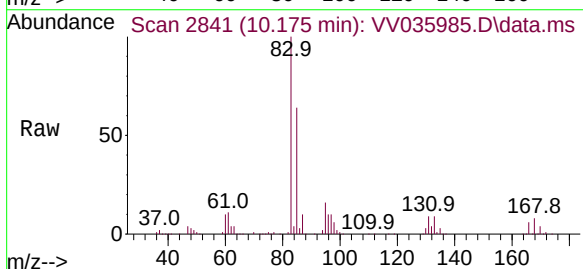
Tgt Ion: 83 Resp: 350767

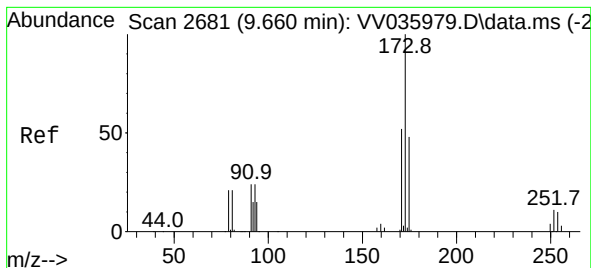
Ion Ratio Lower Upper

83 100

85 64.0 45.1 83.7

131 9.2 7.6 11.4





#59

Bromoform

Concen: 15.488 ug/L

RT: 9.664 min Scan# 2

Delta R.T. 0.003 min

Lab File: VV035985.D

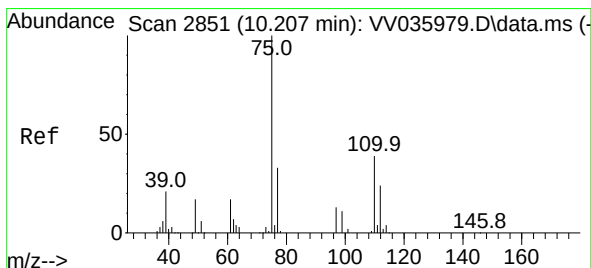
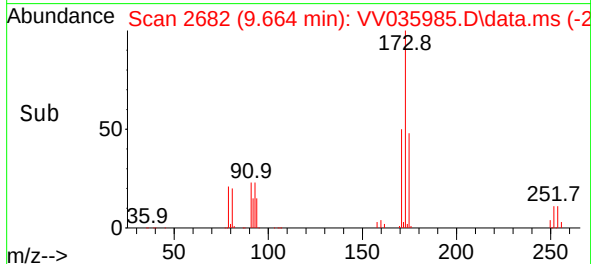
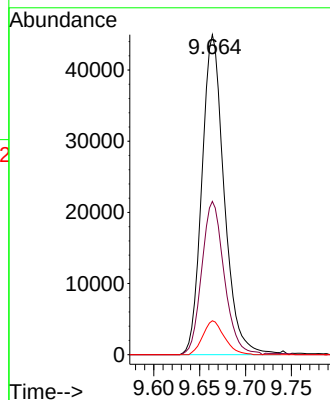
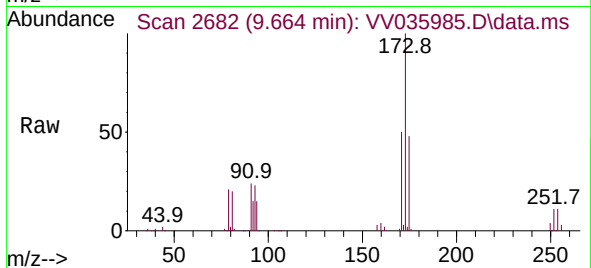
Acq: 06 Jun 2024 14:19

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:173	Resp:	75993
Ion	Ratio	Lower Upper
173	100	
175	48.4	39.0 58.6
254	10.2	8.6 13.0



#61

1,2,3-Trichloropropane

Concen: 75.127 ug/L

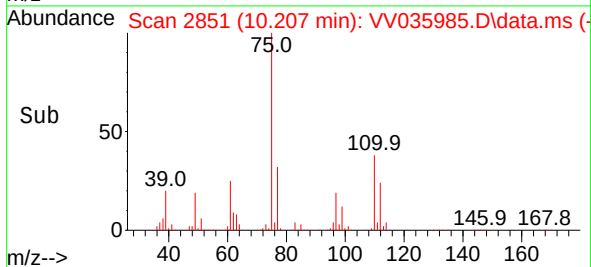
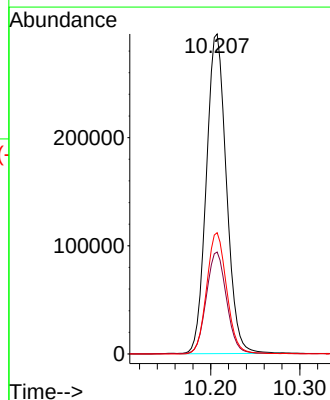
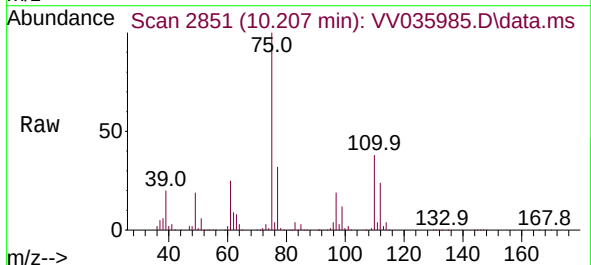
RT: 10.207 min Scan# 2851

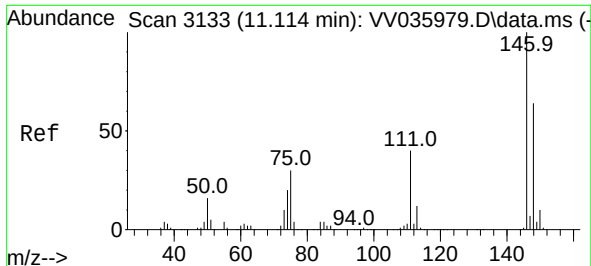
Delta R.T. 0.000 min

Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

Tgt Ion: 75	Resp:	462285
Ion	Ratio	Lower Upper
75	100	
77	31.9	26.0 39.0
110	37.9	32.2 48.4





#64

1,3-Dichlorobenzene

Concen: 26.274 ug/L

RT: 11.114 min Scan# 3133

Delta R.T. 0.000 min

Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

Instrument :

MSVOA_V

ClientSampleId :

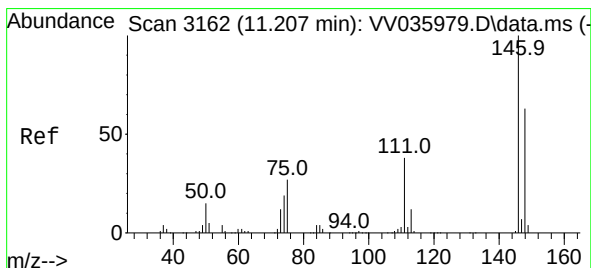
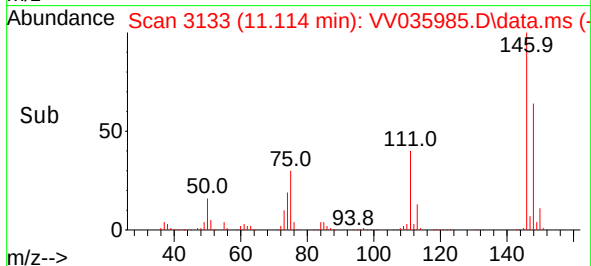
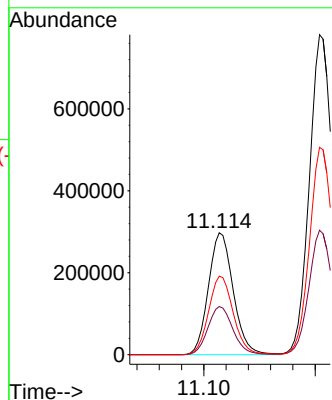
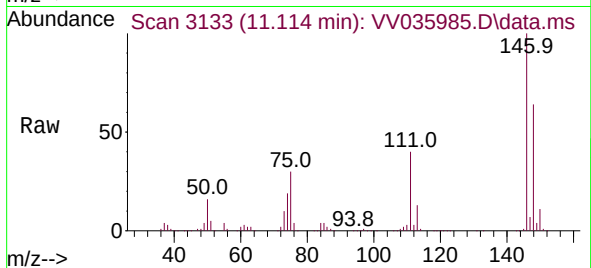
Tgt Ion:146 Resp: 460564

Ion Ratio Lower Upper

146 100

111 39.5 28.1 52.1

148 64.4 44.7 83.1



#65

1,4-Dichlorobenzene

Concen: 65.146 ug/L

RT: 11.204 min Scan# 3161

Delta R.T. -0.003 min

Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

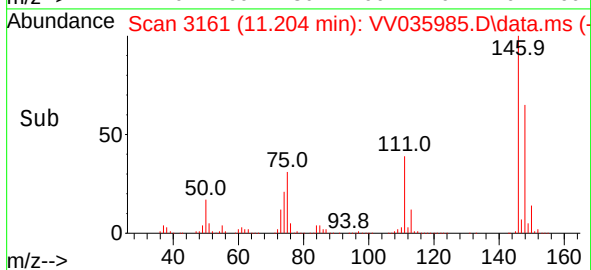
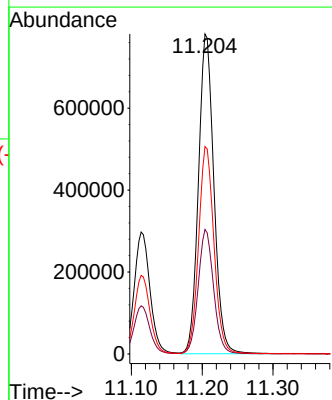
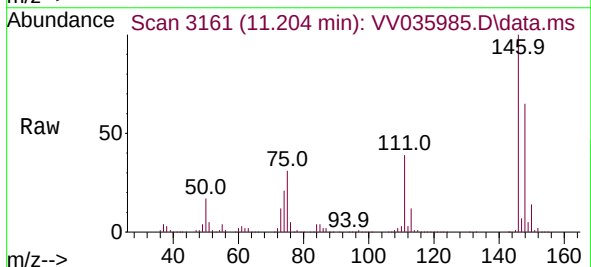
Tgt Ion:146 Resp: 1178707

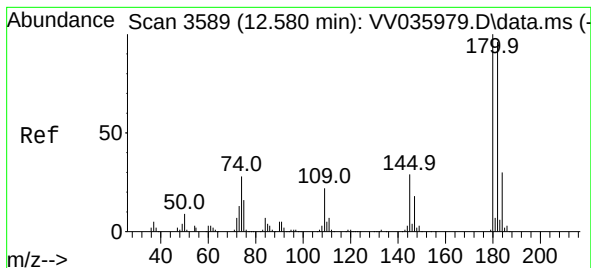
Ion Ratio Lower Upper

146 100

111 38.9 26.9 50.1

148 64.8 44.5 82.7





#69

1,3,5-Trichlorobenzene

Concen: 19.039 ug/L

RT: 13.194 min Scan# 3

Delta R.T. 0.614 min

Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:180 Resp: 249640

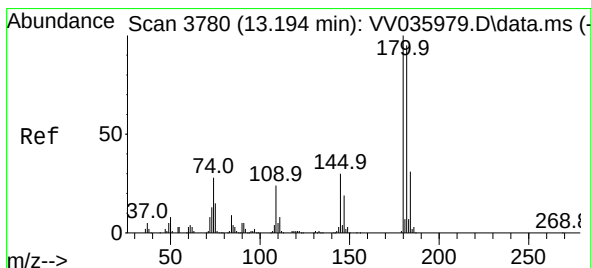
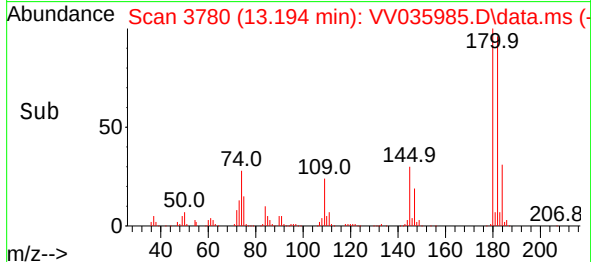
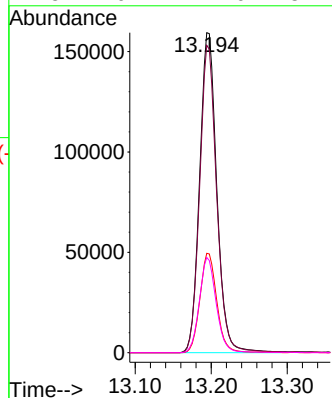
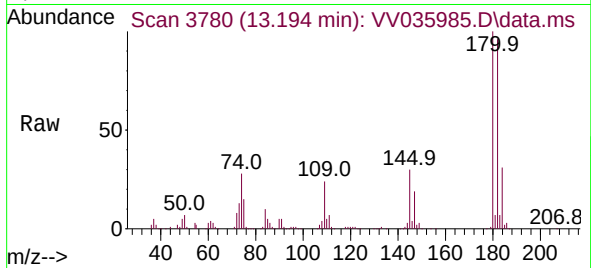
Ion Ratio Lower Upper

180 100

182 95.1 76.2 114.4

184 30.4 24.2 36.2

145 29.1 22.9 34.3



#70

1,2,4-trichlorobenzene

Concen: 24.180 ug/L

RT: 13.194 min Scan# 3780

Delta R.T. 0.000 min

Lab File: VV035985.D

Acq: 06 Jun 2024 14:19

Tgt Ion:180 Resp: 249640

Ion Ratio Lower Upper

180 100

182 95.1 76.1 114.1

145 29.1 23.5 35.3

