

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW070124\
 Data File : VW036376.D
 Acq On : 01 Jul 2024 15:25
 Operator : SY/MD
 Sample : P3087-25
 Misc : 5.00g/10.0mL/MSVOA_V/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jul 02 02:38:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM062724SMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jul 02 02:29:42 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	294169	25.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	314519	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.182	152	173758	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.272	65	104719	20.961	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.840%
7) Chloroethane-d5	1.526	69	88434	22.162	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.640%
11) 1,1-Dichloroethene-d2	2.050	65	50230	21.387	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	85.560%
21) 2-Butanone-d5	3.847	46	39446	34.020	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	68.040%
24) Chloroform-d	4.243	84	195927	22.564	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.240%
26) 1,2-Dichloroethane-d4	4.937	65	116125	25.078	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.320%
32) Benzene-d6	4.953	84	366646	20.651	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	82.600%
36) 1,2-Dichloropropane-d6	5.986	67	123876	23.196	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	92.800%
41) Toluene-d8	7.240	98	355546	22.210	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	88.840%
43) trans-1,3-Dichloroprop...	7.551	79	52253	21.911	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	87.640%
47) 2-Hexanone-d5	8.031	63	46204	54.201	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.400%
56) 1,1,2,2-Tetrachloroeth...	10.149	84	110254	25.186	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	100.760%
66) 1,2-Dichlorobenzene-d4	11.558	152	131302	20.736	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	82.960%
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	2.053	101	2695	0.515	ug/L #	33
12) 1,1-Dichloroethene	2.060	96	529185	114.206	ug/L #	69
13) Acetone	2.153	43	329593	210.400	ug/L #	64
16) Methylene chloride	2.439	84	285899	49.367	ug/L	100
17) trans-1,2-Dichloroethene	2.687	96	129786	28.211	ug/L	100
18) Methyl tert-butyl Ether	2.703	73	248210	23.177	ug/L	99
20) cis-1,2-Dichloroethene	3.809	96	155963	33.706	ug/L	98
22) 2-Butanone	3.899	43	216926	164.230	ug/L	93
27) 1,2-Dichloroethane	5.037	62	255774	45.275	ug/L	99
31) Carbon tetrachloride	4.725	117	543574	78.229	ug/L	99
33) Benzene	5.002	78	1066478	57.249	ug/L	100
34) Trichloroethene	5.825	95	535605	91.112	ug/L	99
37) 1,2-Dichloropropane	6.088	63	264057	55.502	ug/L	98
38) Bromodichloromethane	6.426	83	412519	63.395	ug/L	99
39) cis-1,3-Dichloropropene	6.950	75	447831	61.214	ug/L	99
40) 4-Methyl-2-pentanone	7.156	43	737639	274.912	ug/L	98
44) trans-1,3-Dichloropropene	7.577	75	263941	40.112	ug/L	99
45) 1,1,2-Trichloroethane	7.764	97	220366	52.403	ug/L	99
46) Tetrachloroethene	7.902	164	231345	54.150	ug/L	99

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

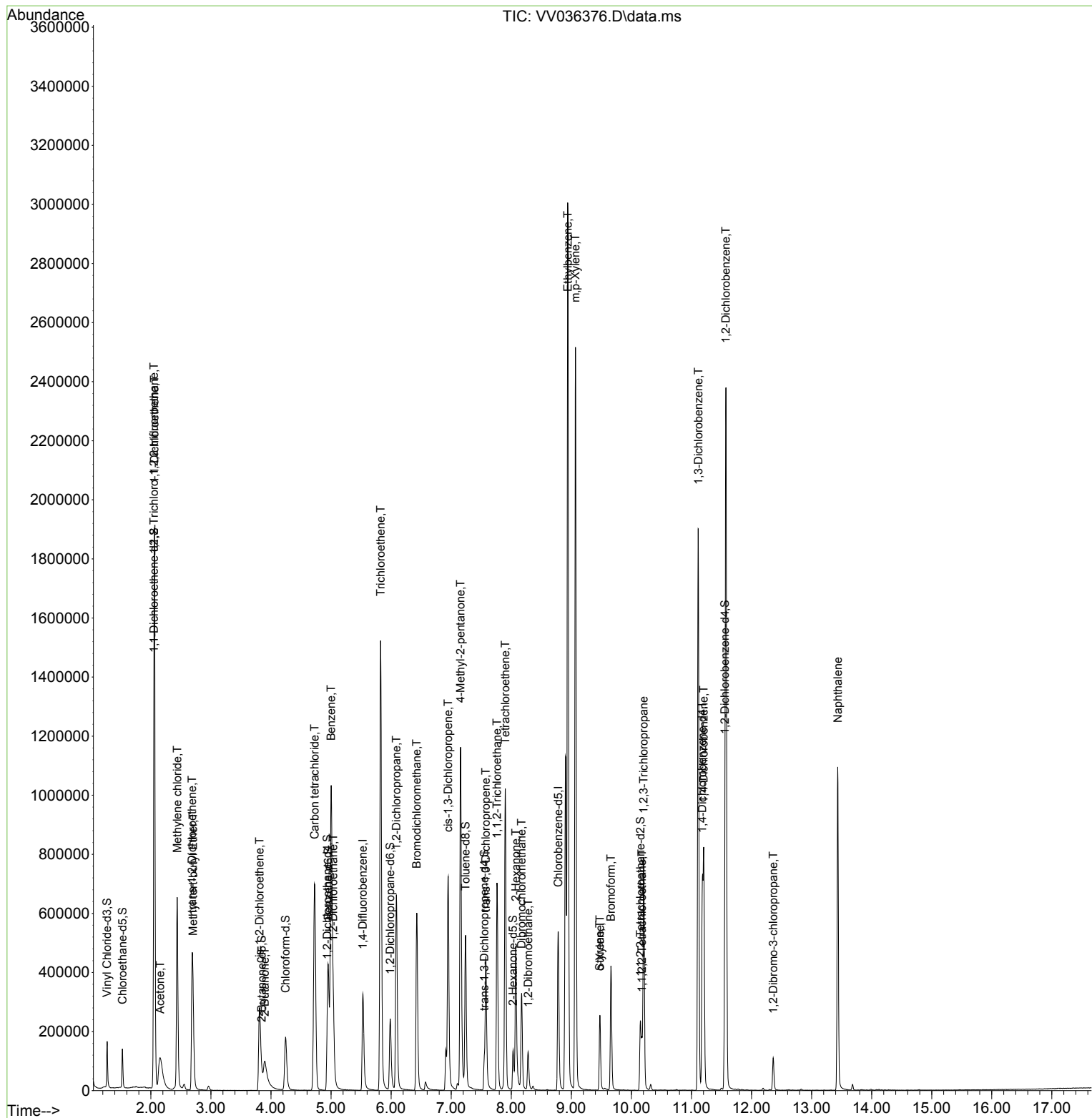
48) 2-Hexanone	8.076	43	303187	143.654	ug/L	99
49) Dibromochloromethane	8.172	129	166645	35.549	ug/L	99
50) 1,2-Dibromoethane	8.281	107	88961	21.474	ug/L	97
52) Ethylbenzene	8.940	91	2015177	95.867	ug/L	100
53) m,p-Xylene	9.069	106	675862	86.270	ug/L	99
54) o-Xylene	9.477	106	68426	9.288	ug/L	95
55) Styrene	9.474	104	6057	0.469	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.175	83	89187	23.697	ug/L	98
59) Bromoform	9.661	173	187217	56.920	ug/L	99
61) 1,2,3-Trichloropropane	10.204	75	318719	81.280	ug/L	99
64) 1,3-Dichlorobenzene	11.114	146	770256	70.377	ug/L	100
65) 1,4-Dichlorobenzene	11.204	146	317630	27.074	ug/L	99
67) 1,2-Dichlorobenzene	11.574	146	898301	85.973	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.362	75	28446	32.335	ug/L	90
71) Naphthalene	13.435	128	821798	70.133	ug/L	99

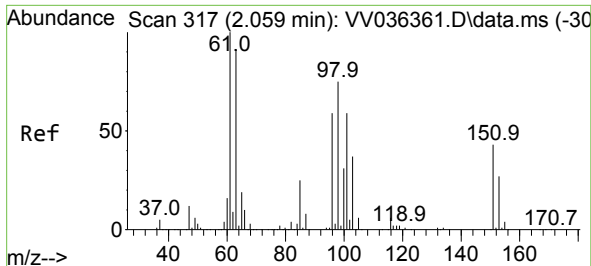
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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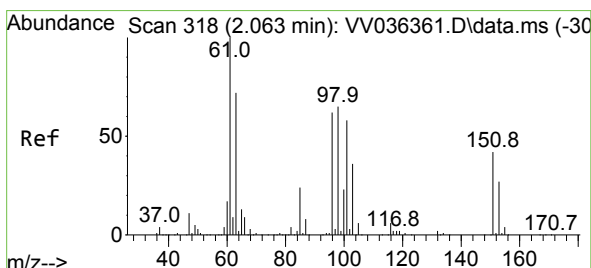
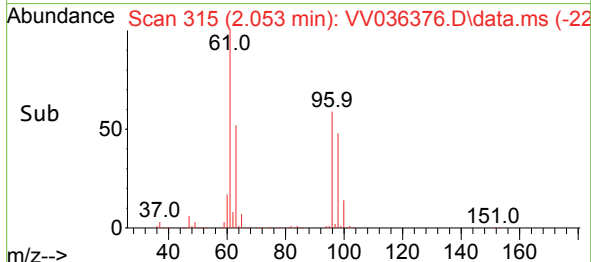
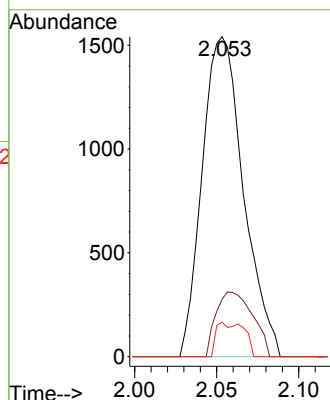
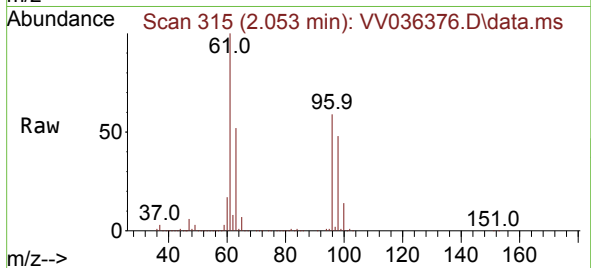




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.515 ug/L
RT: 2.053 min Scan# 317
Delta R.T. -0.006 min
Lab File: VV036376.D
Acq: 01 Jul 2024 15:25

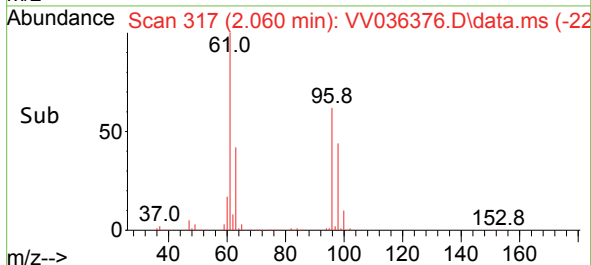
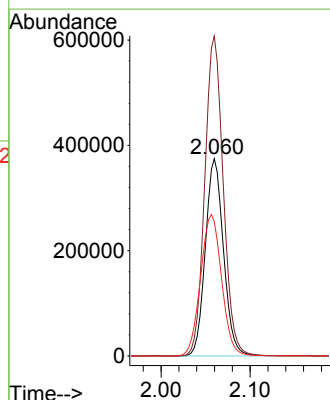
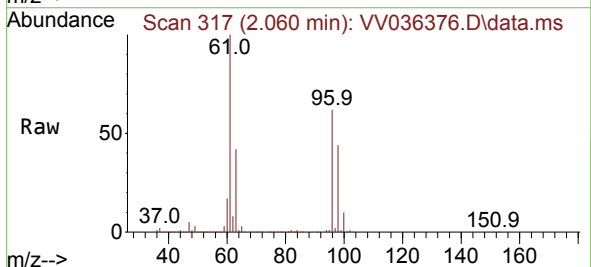
Instrument :
MSVOA_V
ClientSampleId :

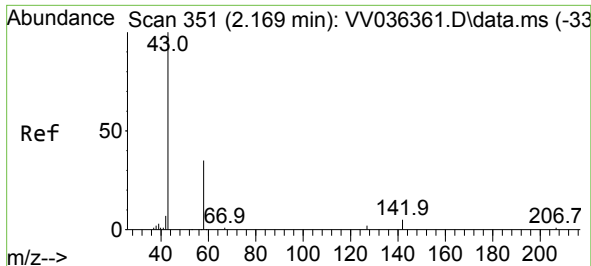
Tgt Ion:101 Resp: 2695
Ion Ratio Lower Upper
101 100
85 17.9 34.6 51.8#
151 3.3 58.9 88.3#



#12
1,1-Dichloroethene
Concen: 114.206 ug/L
RT: 2.060 min Scan# 317
Delta R.T. -0.003 min
Lab File: VV036376.D
Acq: 01 Jul 2024 15:25

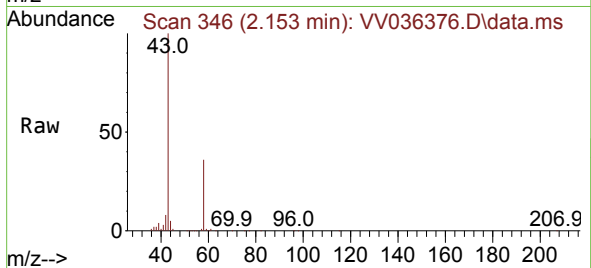
Tgt Ion: 96 Resp: 529185
Ion Ratio Lower Upper
96 100
61 162.1 122.6 227.8
63 68.0 96.1 178.5#



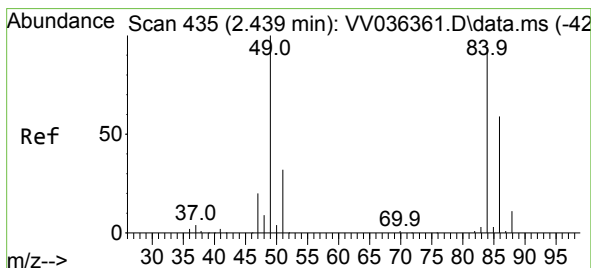
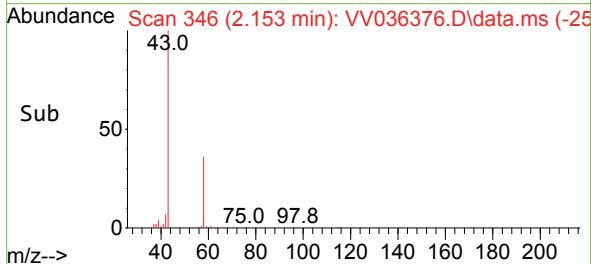
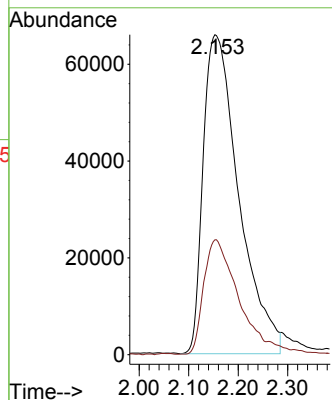


#13
Acetone
Concen: 210.400 ug/L
RT: 2.153 min Scan# 34
Delta R.T. -0.016 min
Lab File: VV036376.D
Acq: 01 Jul 2024 15:25

Instrument :
MSVOA_V
ClientSampleId :

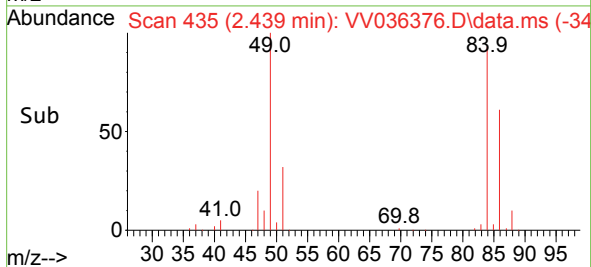
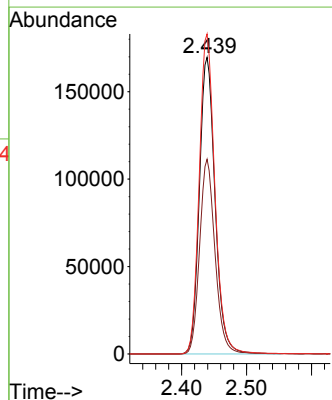
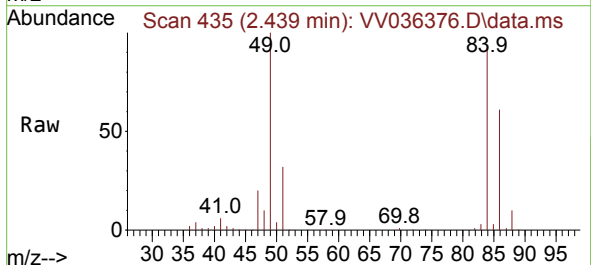


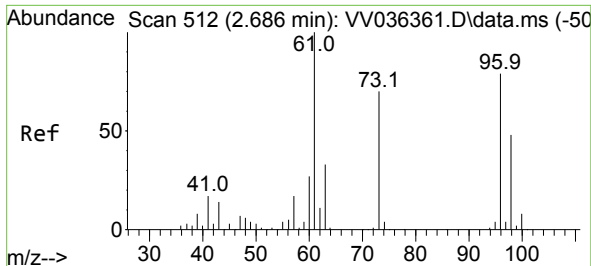
Tgt Ion: 43 Resp: 329593
Ion Ratio Lower Upper
43 100
58 33.6 0.0 0.6#



#16
Methylene chloride
Concen: 49.367 ug/L
RT: 2.439 min Scan# 435
Delta R.T. 0.000 min
Lab File: VV036376.D
Acq: 01 Jul 2024 15:25

Tgt Ion: 84 Resp: 285899
Ion Ratio Lower Upper
84 100
86 65.6 45.6 84.8
49 107.9 75.7 140.5





#17

trans-1,2-Dichloroethene

Concen: 28.211 ug/L

RT: 2.687 min Scan# 512

Delta R.T. 0.000 min

Lab File: VV036376.D

Acq: 01 Jul 2024 15:25

Instrument :

MSVOA_V

ClientSampleId :

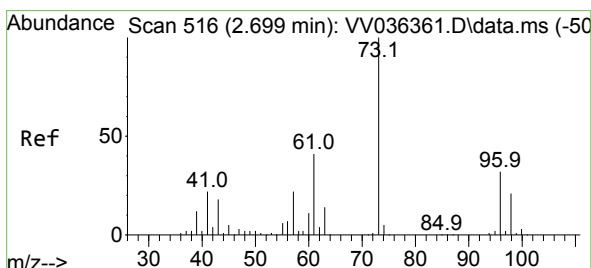
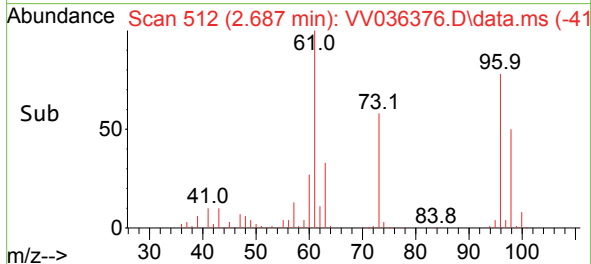
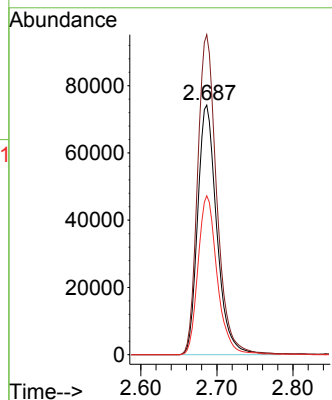
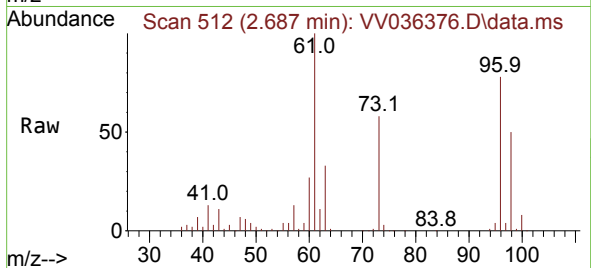
Tgt Ion: 96 Resp: 129786

Ion Ratio Lower Upper

96 100

61 128.2 89.8 166.8

98 63.7 45.3 84.1



#18

Methyl tert-butyl Ether

Concen: 23.177 ug/L

RT: 2.703 min Scan# 517

Delta R.T. 0.003 min

Lab File: VV036376.D

Acq: 01 Jul 2024 15:25

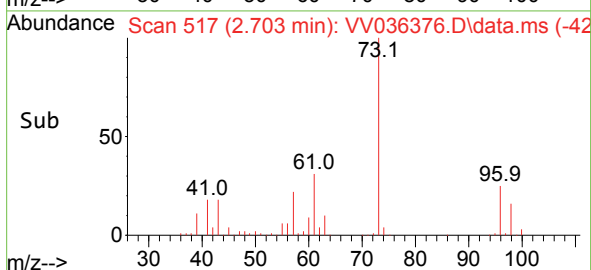
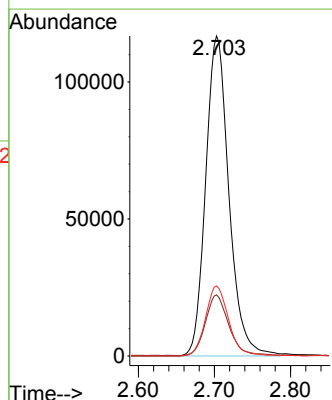
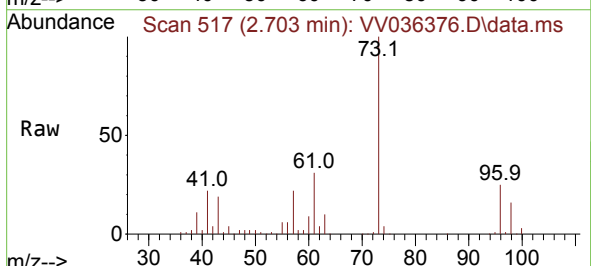
Tgt Ion: 73 Resp: 248210

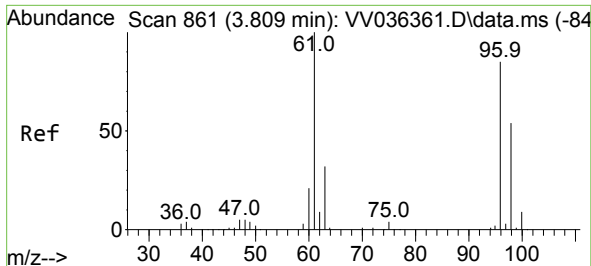
Ion Ratio Lower Upper

73 100

43 18.6 14.7 22.1

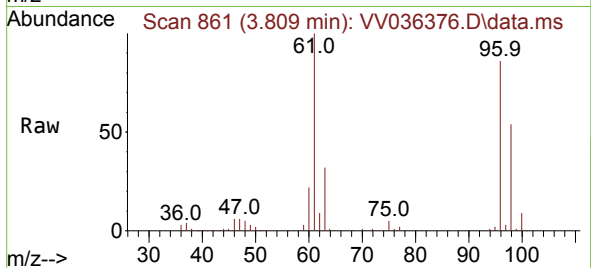
57 21.7 17.0 25.6



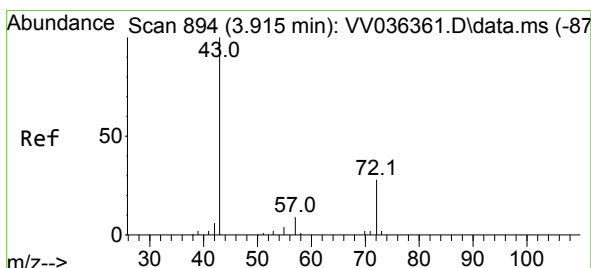
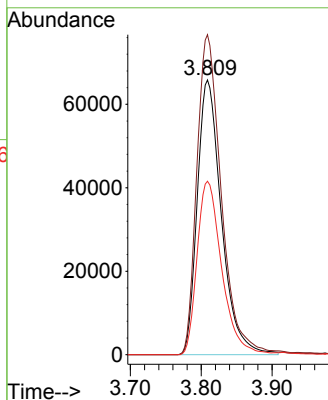
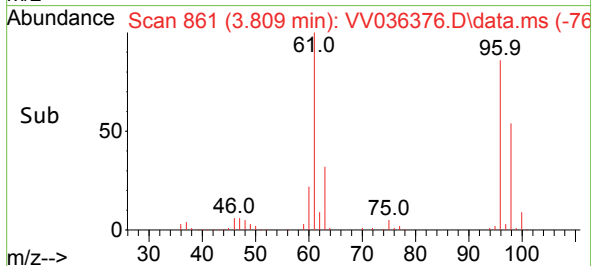


#20
 cis-1,2-Dichloroethene
 Concen: 33.706 ug/L
 RT: 3.809 min Scan# 861
 Delta R.T. 0.000 min
 Lab File: VV036376.D
 Acq: 01 Jul 2024 15:25

Instrument :
 MSVOA_V
 ClientSampleId :

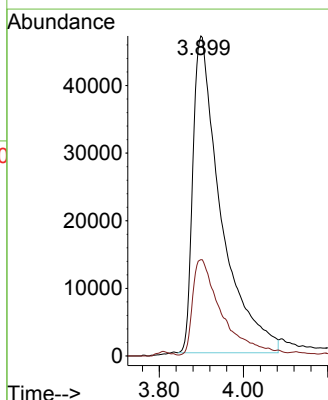
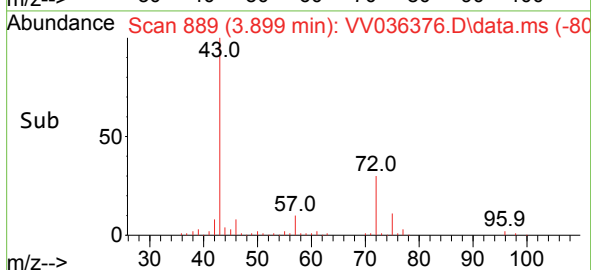
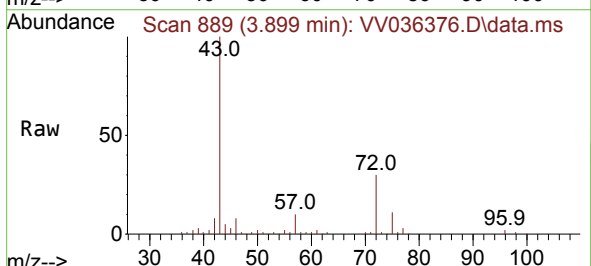


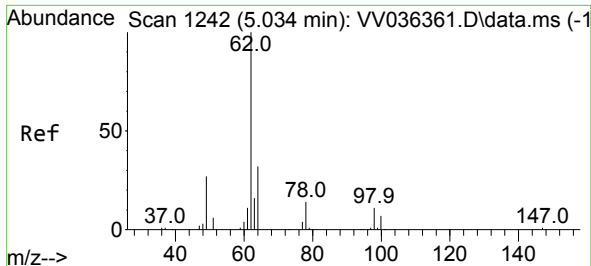
Tgt Ion:	96	Resp:	155963
Ion	Ratio	Lower	Upper
96	100		
61	116.4	83.7	155.5
98	63.1	44.2	82.0



#22
 2-Butanone
 Concen: 164.230 ug/L
 RT: 3.899 min Scan# 889
 Delta R.T. -0.016 min
 Lab File: VV036376.D
 Acq: 01 Jul 2024 15:25

Tgt Ion:	43	Resp:	216926
Ion	Ratio	Lower	Upper
43	100		
72	29.2	12.9	38.7

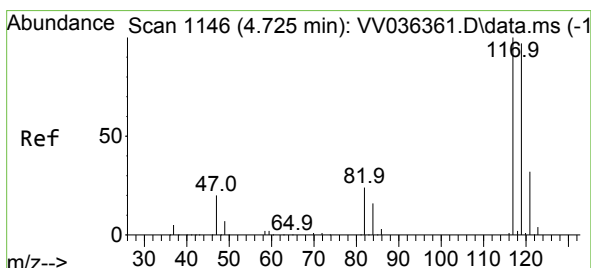
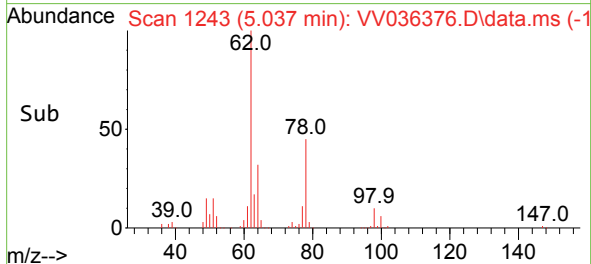
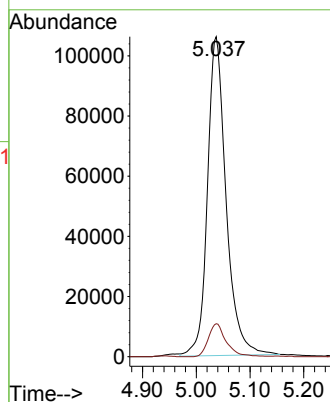
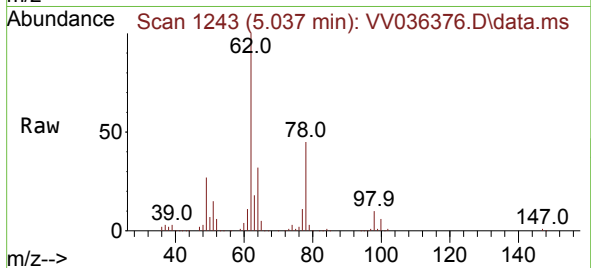




#27
1,2-Dichloroethane
Concen: 45.275 ug/L
RT: 5.037 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV036376.D
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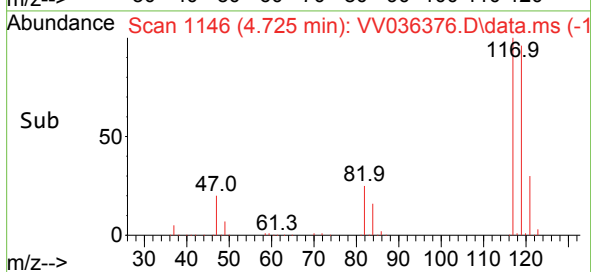
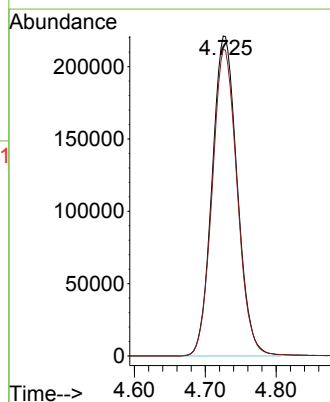
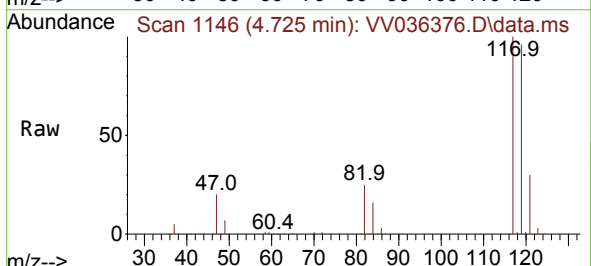
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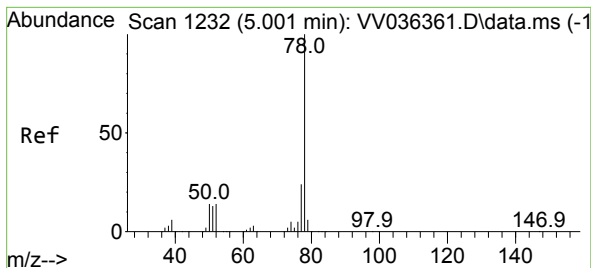
Tgt Ion: 62 Resp: 255774
Ion Ratio Lower Upper
62 100
98 10.3 7.8 11.8



#31
Carbon tetrachloride
Concen: 78.229 ug/L
RT: 4.725 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VV036376.D
Acq: 01 Jul 2024 15:25

Tgt Ion: 117 Resp: 543574
Ion Ratio Lower Upper
117 100
119 95.8 77.2 115.8





#33

Benzene

Concen: 57.249 ug/L

RT: 5.002 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV036376.D

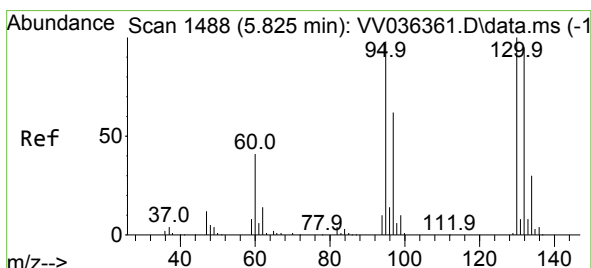
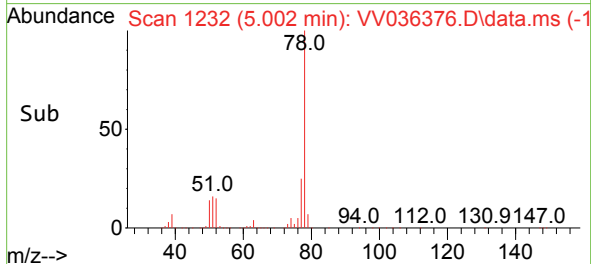
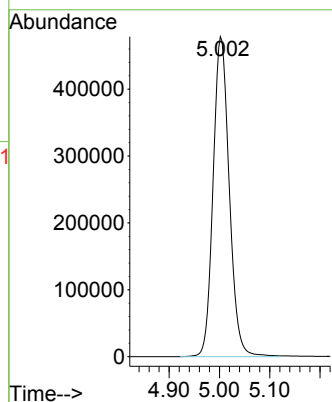
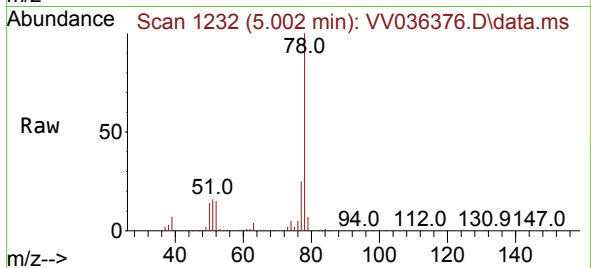
Acq: 01 Jul 2024 15:25

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 78 Resp: 1066478



#34

Trichloroethene

Concen: 91.112 ug/L

RT: 5.825 min Scan# 1488

Delta R.T. 0.000 min

Lab File: VV036376.D

Acq: 01 Jul 2024 15:25

Tgt Ion: 95 Resp: 535605

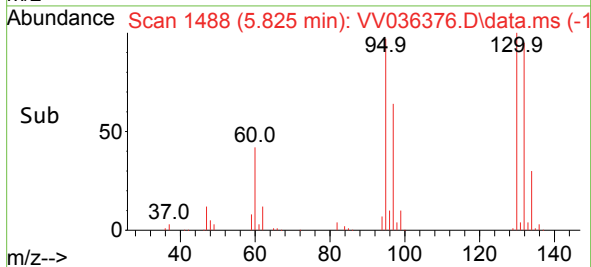
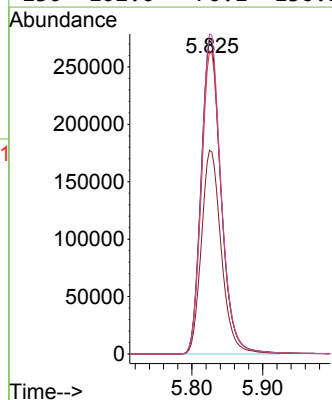
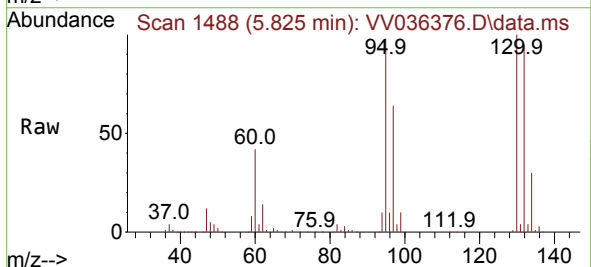
Ion Ratio Lower Upper

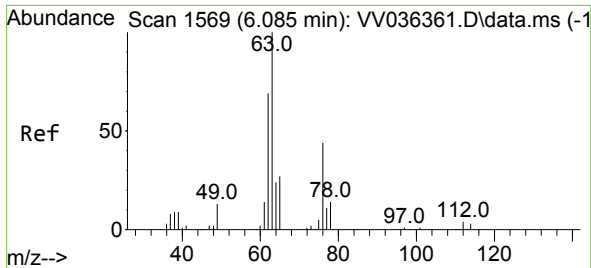
95 100

97 64.9 45.1 83.7

132 96.6 67.7 125.7

130 102.0 70.1 130.1

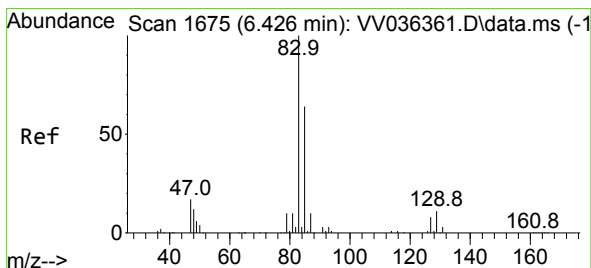
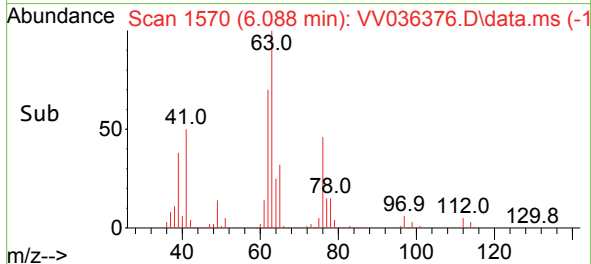
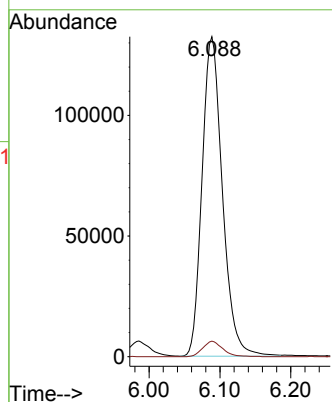
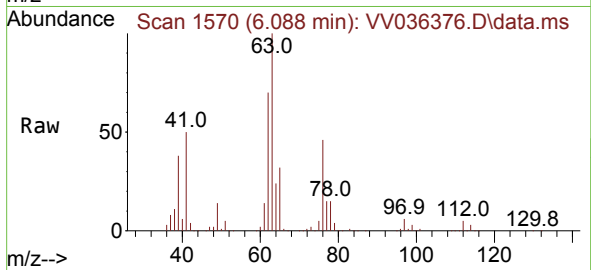




#37
1,2-Dichloropropane
Concen: 55.502 ug/L
RT: 6.088 min Scan# 1570
Delta R.T. 0.003 min
Lab File: VV036376.D
Acq: 01 Jul 2024 15:25

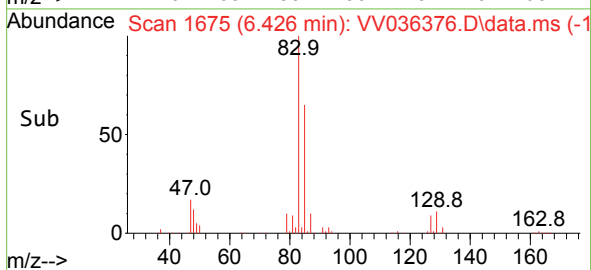
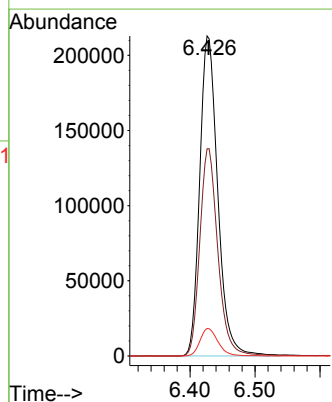
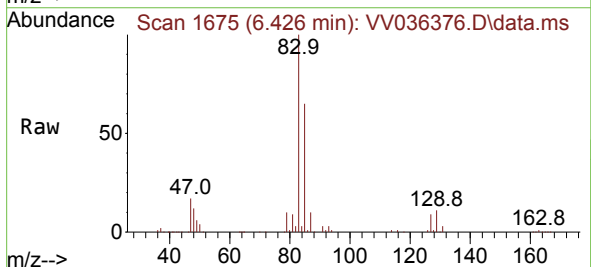
Instrument :
MSVOA_V
ClientSampleId :

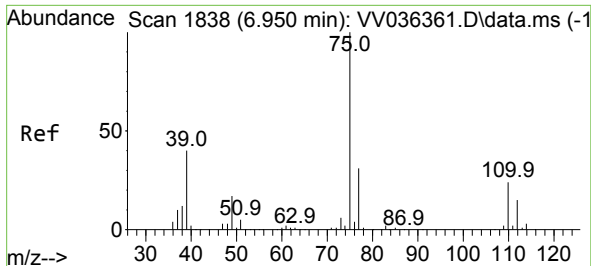
Tgt Ion: 63 Resp: 264057
Ion Ratio Lower Upper
63 100
112 4.8 3.4 5.2



#38
Bromodichloromethane
Concen: 63.395 ug/L
RT: 6.426 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VV036376.D
Acq: 01 Jul 2024 15:25

Tgt Ion: 83 Resp: 412519
Ion Ratio Lower Upper
83 100
85 64.7 44.9 83.5
127 8.6 7.0 10.6





#39

cis-1,3-Dichloropropene

Concen: 61.214 ug/L

RT: 6.950 min Scan# 11

Delta R.T. 0.000 min

Lab File: VV036376.D

Acq: 01 Jul 2024 15:25

Instrument :

MSVOA_V

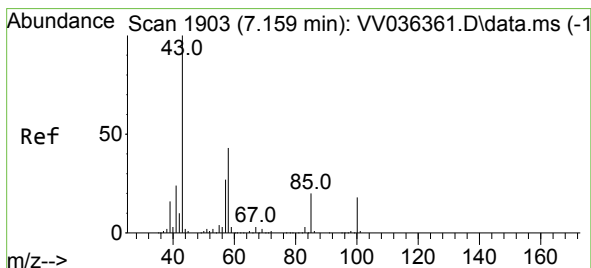
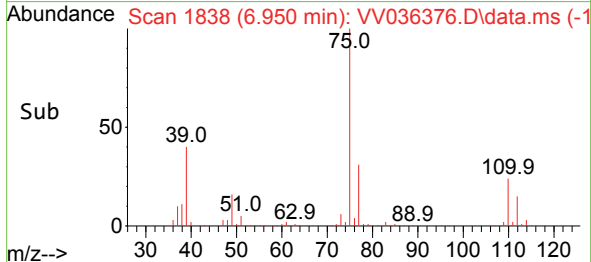
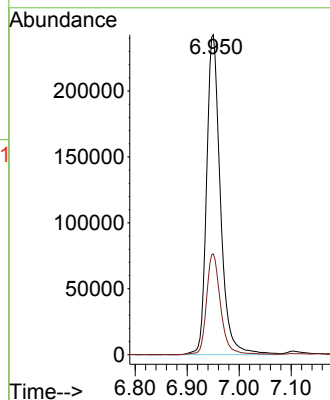
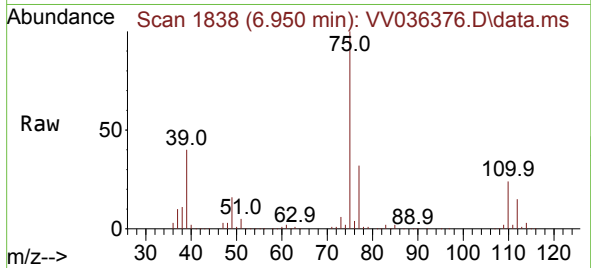
ClientSampleId :

Tgt Ion: 75 Resp: 447831

Ion Ratio Lower Upper

75 100

77 31.5 22.3 41.5



#40

4-Methyl-2-pentanone

Concen: 274.912 ug/L

RT: 7.156 min Scan# 1902

Delta R.T. -0.003 min

Lab File: VV036376.D

Acq: 01 Jul 2024 15:25

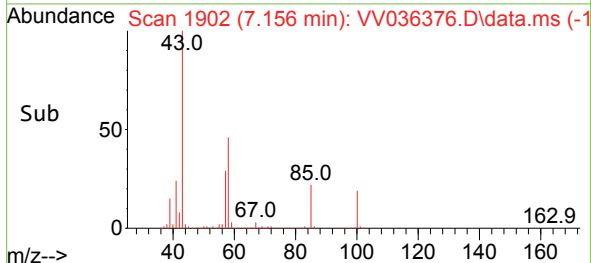
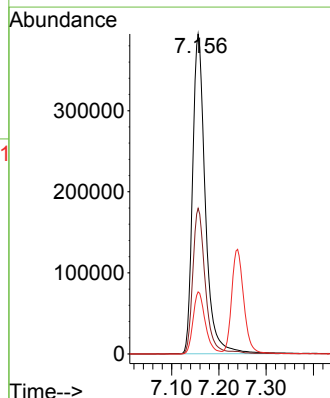
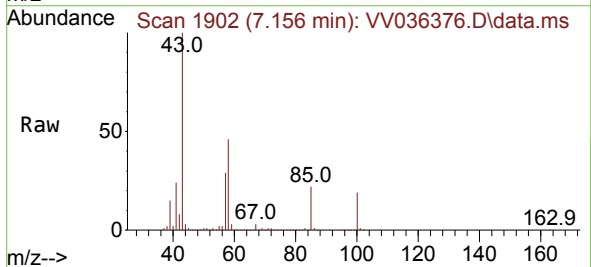
Tgt Ion: 43 Resp: 737639

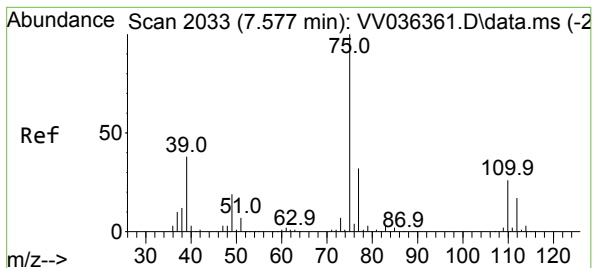
Ion Ratio Lower Upper

43 100

58 45.2 34.8 52.2

100 18.8 14.6 21.8





#44

trans-1,3-Dichloropropene

Concen: 40.112 ug/L

RT: 7.577 min Scan# 2033

Delta R.T. 0.000 min

Lab File: VV036376.D

Acq: 01 Jul 2024 15:25

Instrument :

MSVOA_V

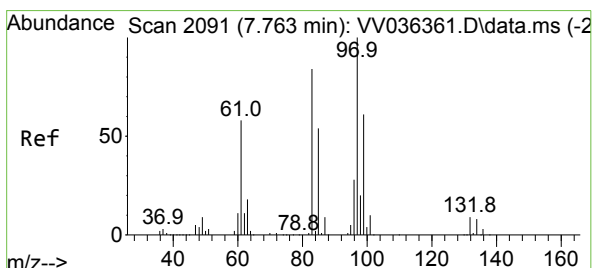
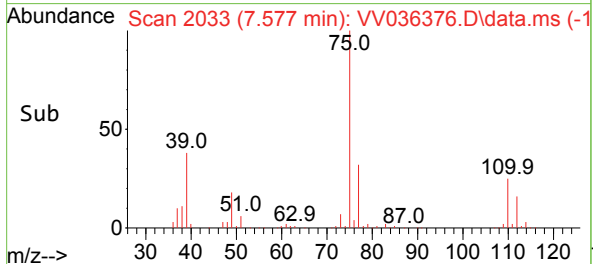
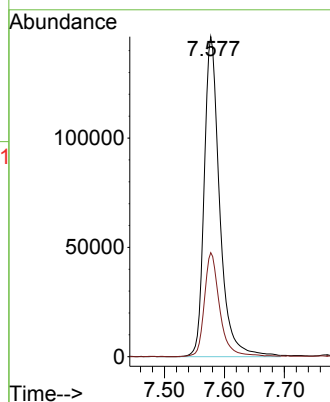
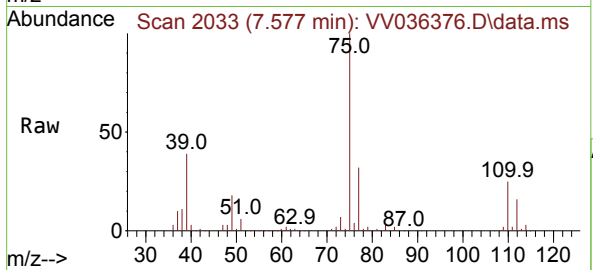
ClientSampleId :

Tgt Ion: 75 Resp: 263941

Ion Ratio Lower Upper

75 100

77 32.5 22.5 41.9



#45

1,1,2-Trichloroethane

Concen: 52.403 ug/L

RT: 7.764 min Scan# 2091

Delta R.T. 0.000 min

Lab File: VV036376.D

Acq: 01 Jul 2024 15:25

Tgt Ion: 97 Resp: 220366

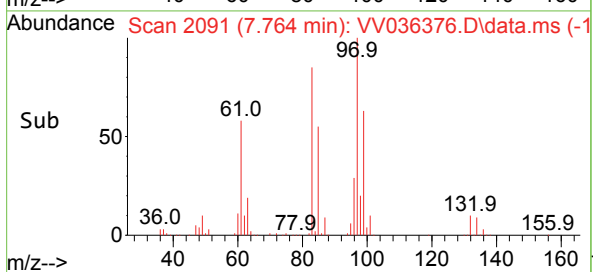
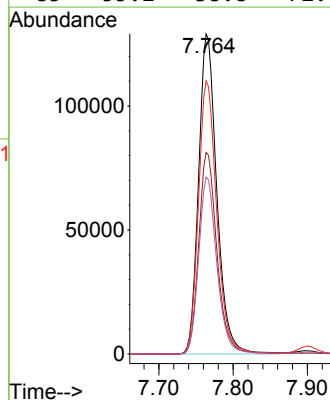
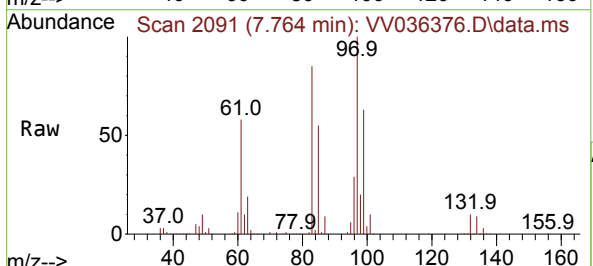
Ion Ratio Lower Upper

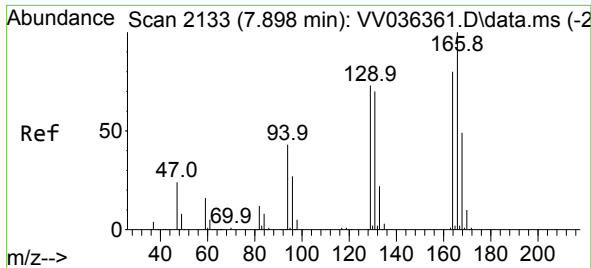
97 100

99 63.0 43.8 81.3

83 85.3 60.6 112.6

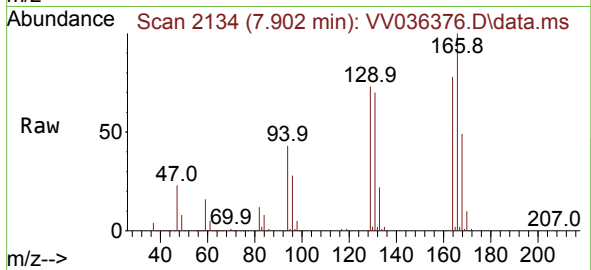
85 55.2 38.8 72.0



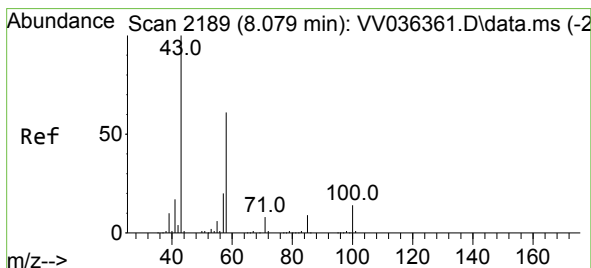
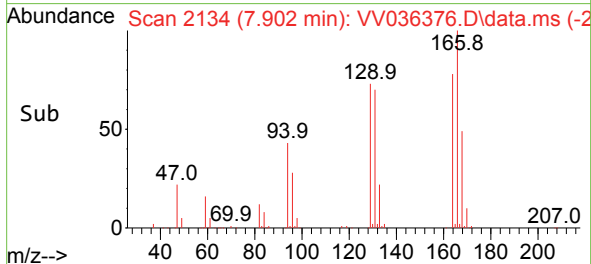
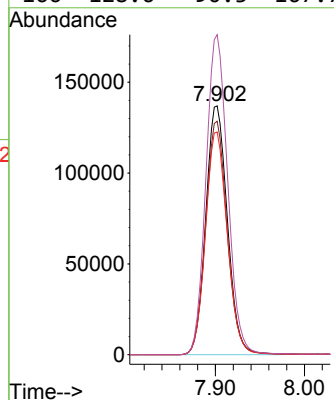


#46
Tetrachloroethene
Concen: 54.150 ug/L
RT: 7.902 min Scan# 2134
Delta R.T. 0.003 min
Lab File: VV036376.D
Acq: 01 Jul 2024 15:25

Instrument :
MSVOA_V
ClientSampleId :

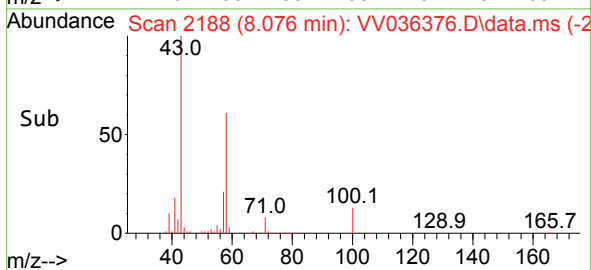
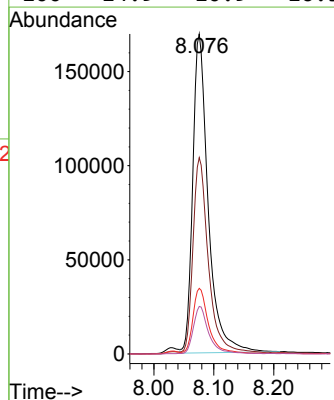
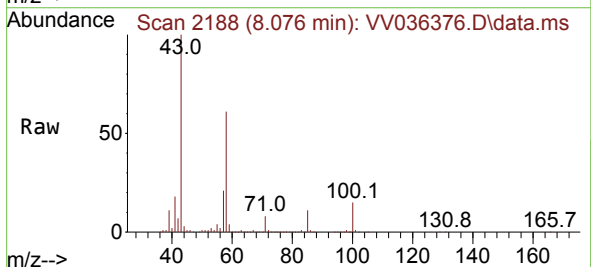


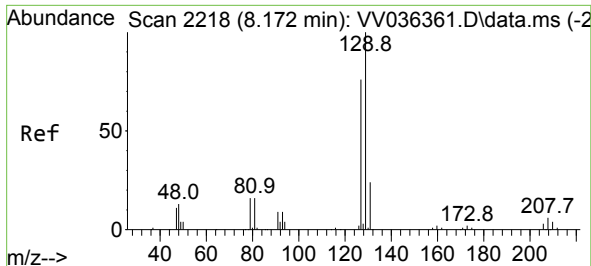
Tgt Ion:164 Resp: 231345
Ion Ratio Lower Upper
164 100
129 93.9 65.9 122.5
131 89.6 63.3 117.7
166 128.6 90.3 167.7



#48
2-Hexanone
Concen: 143.654 ug/L
RT: 8.076 min Scan# 2188
Delta R.T. -0.003 min
Lab File: VV036376.D
Acq: 01 Jul 2024 15:25

Tgt Ion: 43 Resp: 303187
Ion Ratio Lower Upper
43 100
58 60.9 48.5 72.7
57 20.3 15.8 23.6
100 14.9 10.9 16.3





#49

Dibromochloromethane

Concen: 35.549 ug/L

RT: 8.172 min Scan# 21

Delta R.T. 0.000 min

Lab File: VV036376.D

Acq: 01 Jul 2024 15:25

Instrument :

MSVOA_V

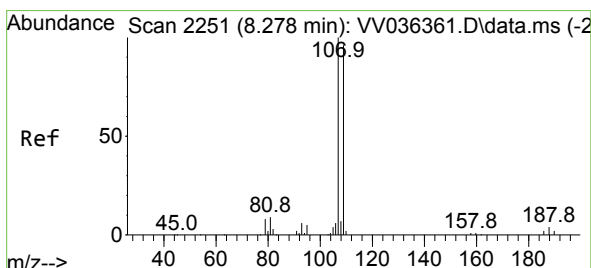
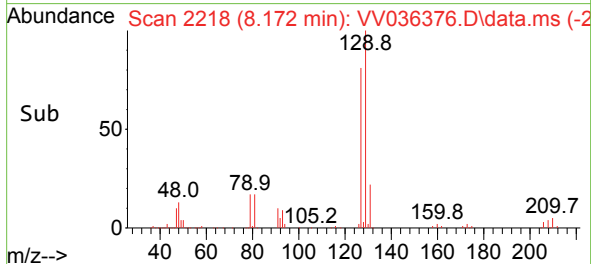
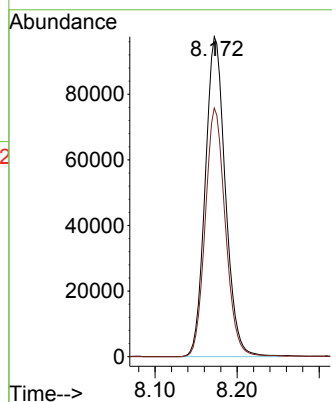
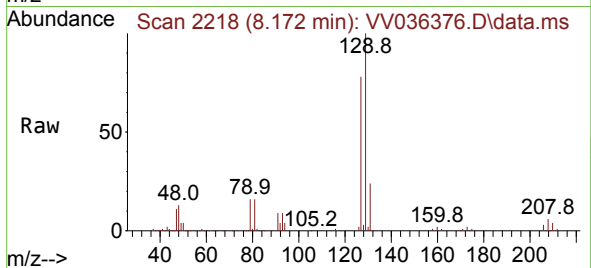
ClientSampleId :

Tgt Ion:129 Resp: 166645

Ion Ratio Lower Upper

129 100

127 77.7 54.9 101.9



#50

1,2-Dibromoethane

Concen: 21.474 ug/L

RT: 8.281 min Scan# 2252

Delta R.T. 0.003 min

Lab File: VV036376.D

Acq: 01 Jul 2024 15:25

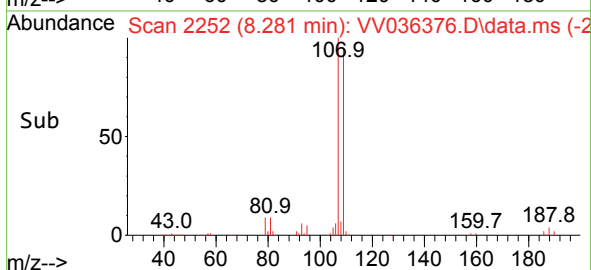
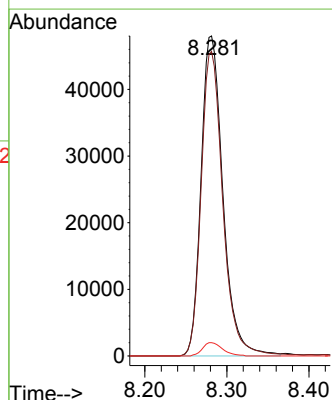
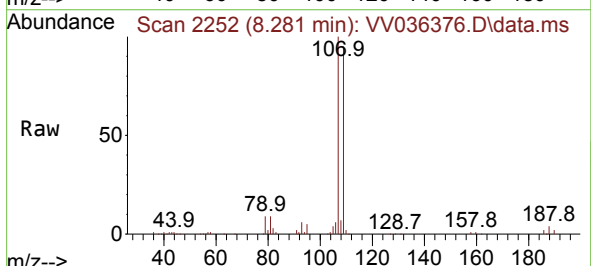
Tgt Ion:107 Resp: 88961

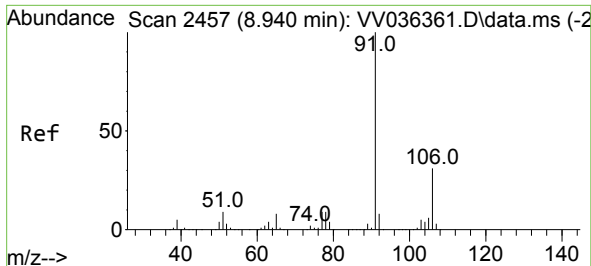
Ion Ratio Lower Upper

107 100

109 95.2 64.7 120.1

188 4.2 3.0 4.6





#52

Ethylbenzene

Concen: 95.867 ug/L

RT: 8.940 min Scan# 2457

Delta R.T. 0.000 min

Lab File: VV036376.D

Acq: 01 Jul 2024 15:25

Instrument :

MSVOA_V

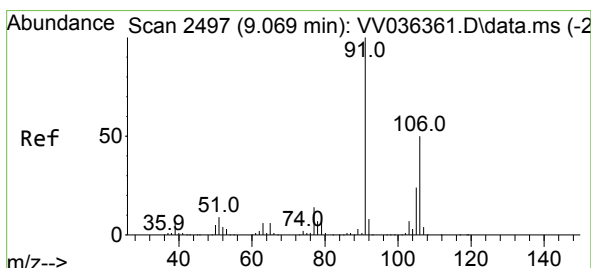
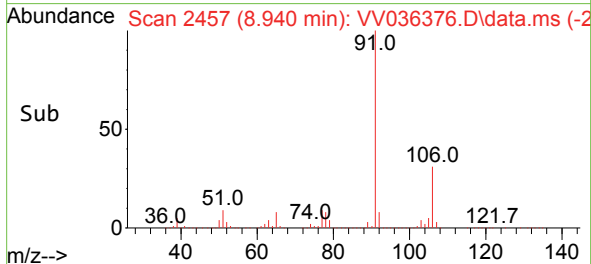
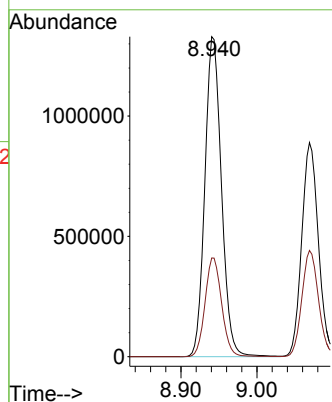
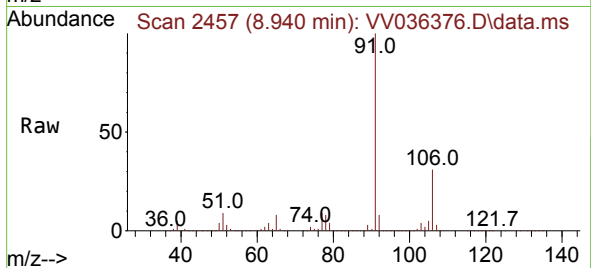
ClientSampleId :

Tgt Ion: 91 Resp: 2015177

Ion Ratio Lower Upper

91 100

106 30.8 21.8 40.4



#53

m,p-Xylene

Concen: 86.270 ug/L

RT: 9.069 min Scan# 2497

Delta R.T. 0.000 min

Lab File: VV036376.D

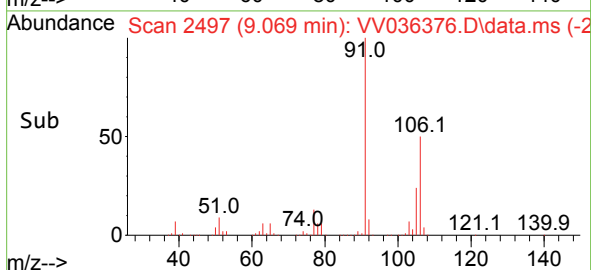
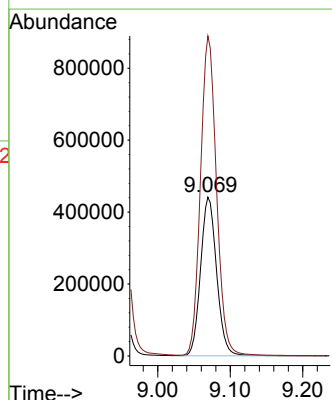
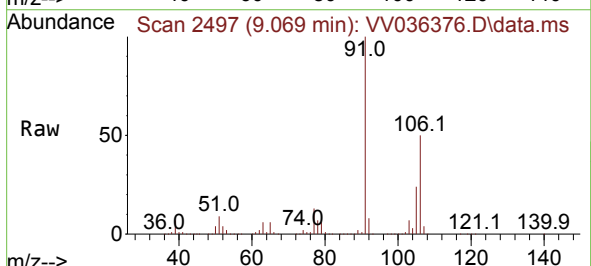
Acq: 01 Jul 2024 15:25

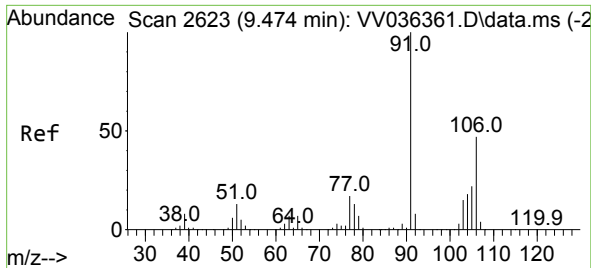
Tgt Ion: 106 Resp: 675862

Ion Ratio Lower Upper

106 100

91 201.3 142.2 264.0

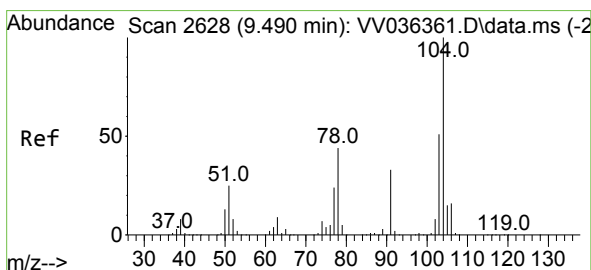
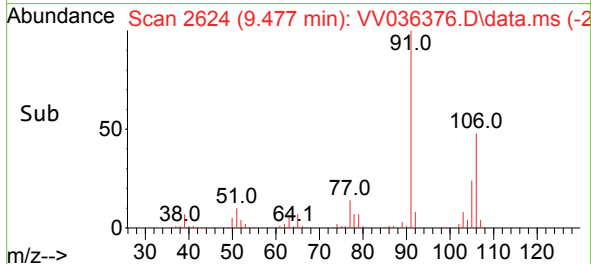
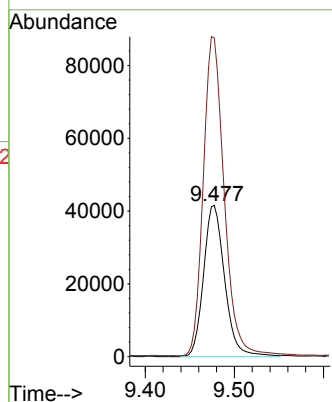
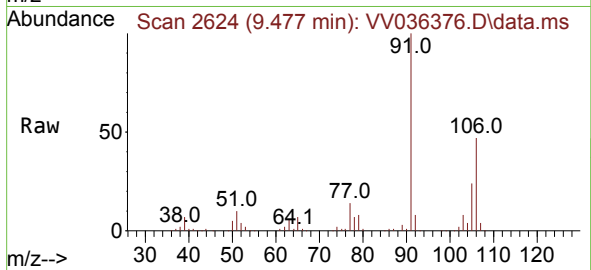




#54
o-Xylene
Concen: 9.288 ug/L
RT: 9.477 min Scan# 2624
Delta R.T. 0.003 min
Lab File: VV036376.D
Acq: 01 Jul 2024 15:25

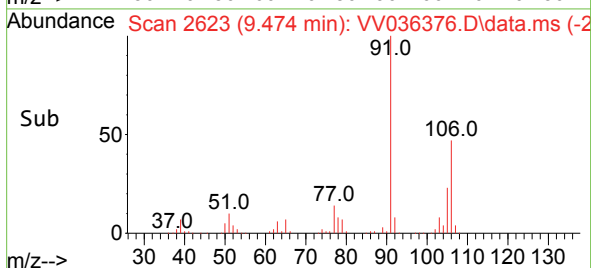
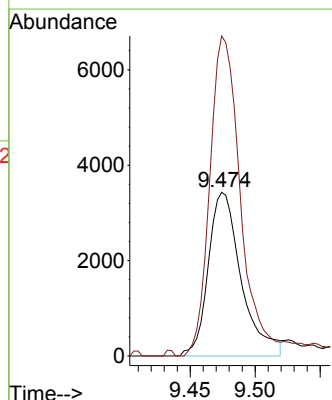
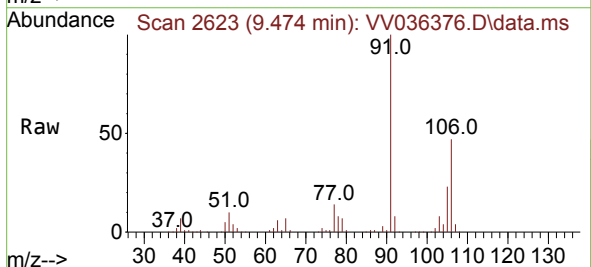
Instrument :
MSVOA_V
ClientSampleId :

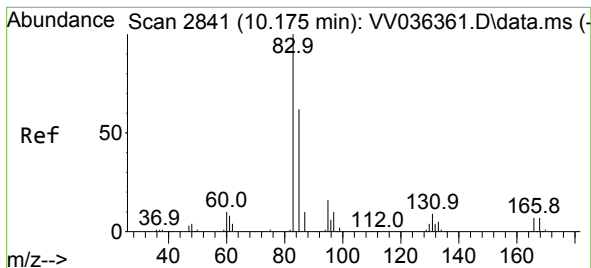
Tgt Ion:106 Resp: 68426
Ion Ratio Lower Upper
106 100
91 210.8 152.7 283.7



#55
Styrene
Concen: 0.469 ug/L
RT: 9.474 min Scan# 2623
Delta R.T. -0.016 min
Lab File: VV036376.D
Acq: 01 Jul 2024 15:25

Tgt Ion:104 Resp: 6057
Ion Ratio Lower Upper
104 100
78 195.4 30.2 56.2#





#57

1,1,2,2-Tetrachloroethane

Concen: 23.697 ug/L

RT: 10.175 min Scan# 2841

Delta R.T. 0.000 min

Lab File: VV036376.D

Acq: 01 Jul 2024 15:25

Instrument :

MSVOA_V

ClientSampleId :

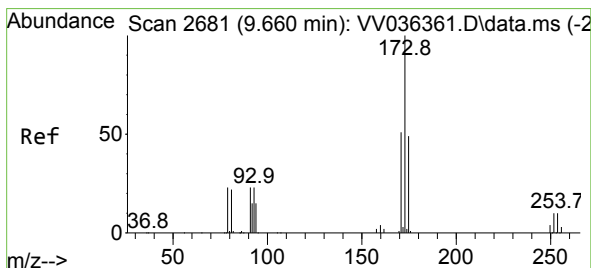
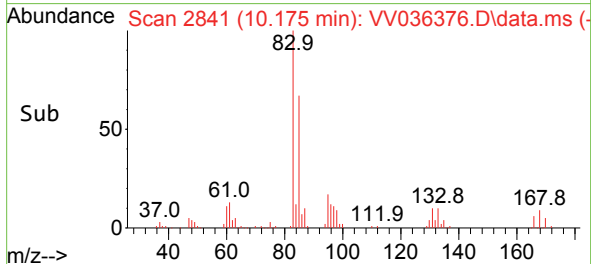
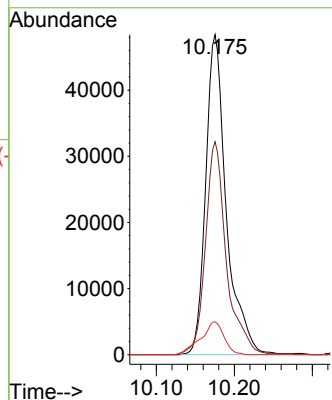
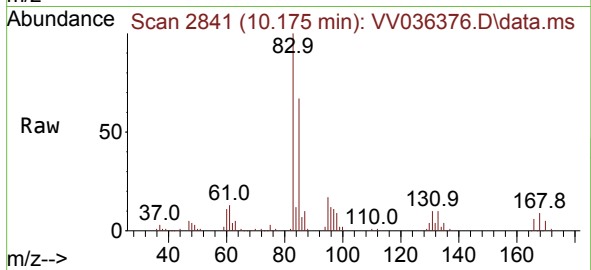
Tgt Ion: 83 Resp: 89187

Ion Ratio Lower Upper

83 100

85 66.5 45.7 84.9

131 10.2 7.8 11.6



#59

Bromoform

Concen: 56.920 ug/L

RT: 9.661 min Scan# 2681

Delta R.T. 0.000 min

Lab File: VV036376.D

Acq: 01 Jul 2024 15:25

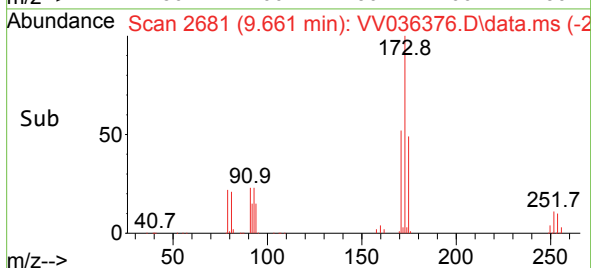
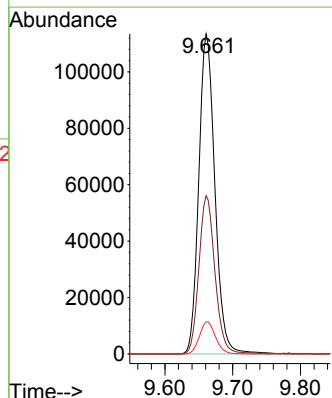
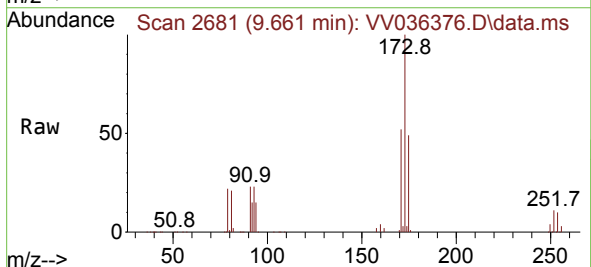
Tgt Ion: 173 Resp: 187217

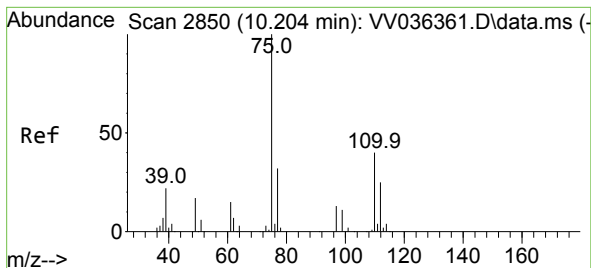
Ion Ratio Lower Upper

173 100

175 49.0 38.9 58.3

254 10.0 7.2 10.8





#61

1,2,3-Trichloropropane

Concen: 81.280 ug/L

RT: 10.204 min Scan# 2850

Delta R.T. 0.000 min

Lab File: VV036376.D

Acq: 01 Jul 2024 15:25

Instrument :

MSVOA_V

ClientSampleId :

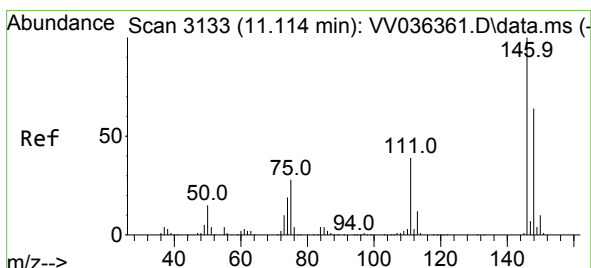
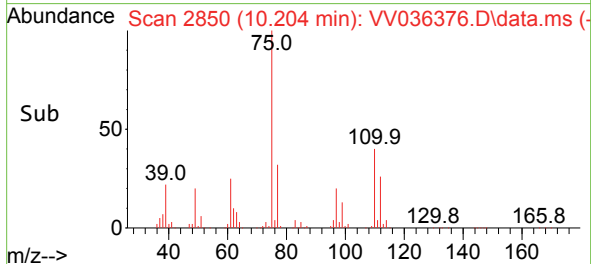
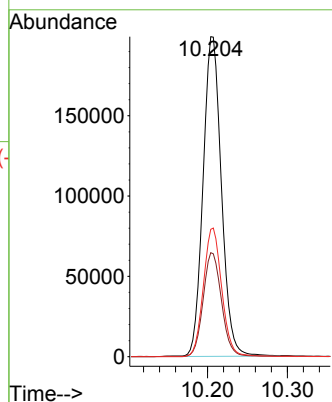
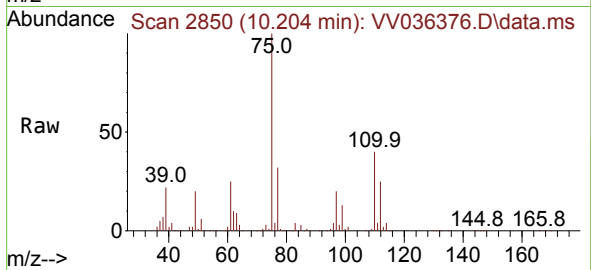
Tgt Ion: 75 Resp: 318719

Ion Ratio Lower Upper

75 100

77 32.1 25.2 37.8

110 40.3 31.7 47.5



#64

1,3-Dichlorobenzene

Concen: 70.377 ug/L

RT: 11.114 min Scan# 3133

Delta R.T. 0.000 min

Lab File: VV036376.D

Acq: 01 Jul 2024 15:25

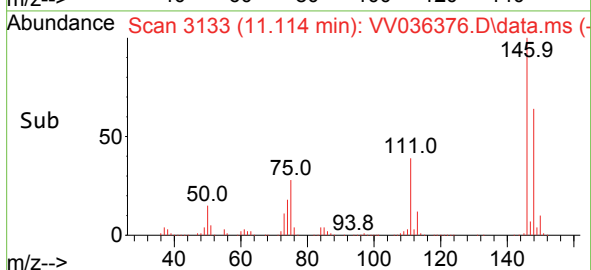
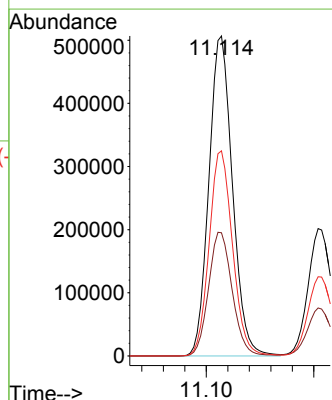
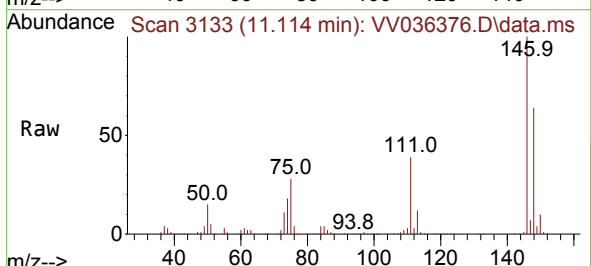
Tgt Ion: 146 Resp: 770256

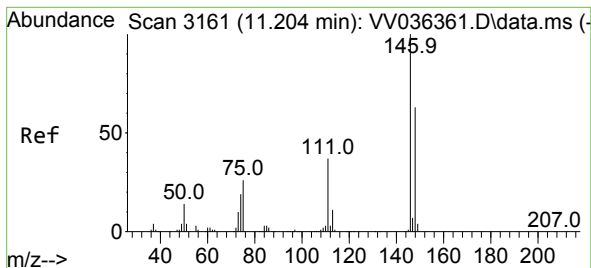
Ion Ratio Lower Upper

146 100

111 38.5 27.5 51.1

148 64.1 44.9 83.3





#65

1,4-Dichlorobenzene

Concen: 27.074 ug/L

RT: 11.204 min Scan# 3161

Delta R.T. 0.000 min

Lab File: VV036376.D

Acq: 01 Jul 2024 15:25

Instrument :

MSVOA_V

ClientSampleId :

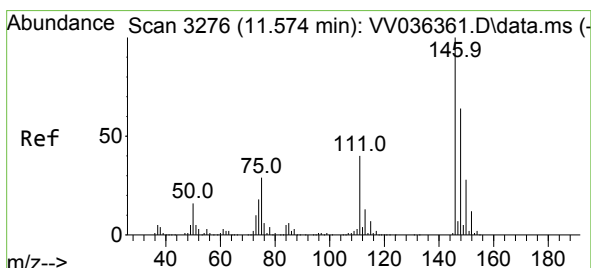
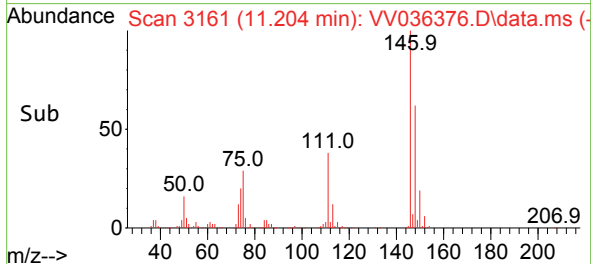
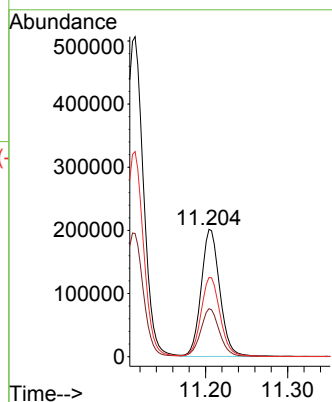
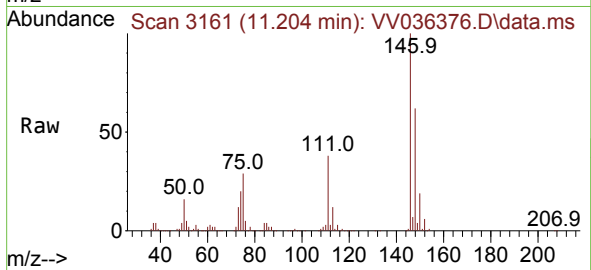
Tgt Ion:146 Resp: 317630

Ion Ratio Lower Upper

146 100

111 37.7 27.5 51.1

148 62.3 44.0 81.8



#67

1,2-Dichlorobenzene

Concen: 85.973 ug/L

RT: 11.574 min Scan# 3276

Delta R.T. 0.000 min

Lab File: VV036376.D

Acq: 01 Jul 2024 15:25

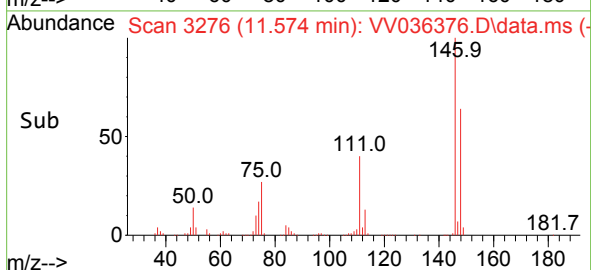
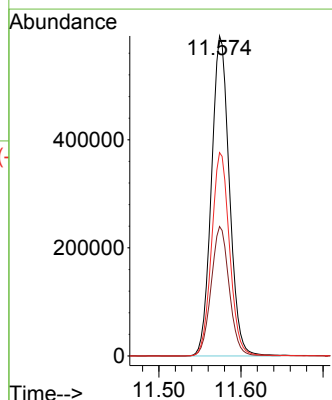
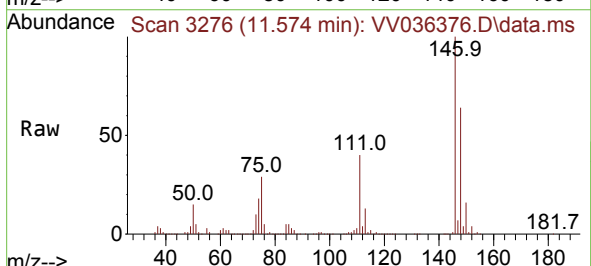
Tgt Ion:146 Resp: 898301

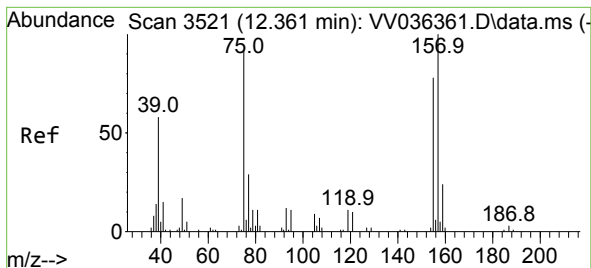
Ion Ratio Lower Upper

146 100

111 40.4 33.3 49.9

148 63.6 51.1 76.7





#68

1,2-Dibromo-3-chloropropane

Concen: 32.335 ug/L

RT: 12.362 min Scan# 3521

Delta R.T. 0.000 min

Lab File: VV036376.D

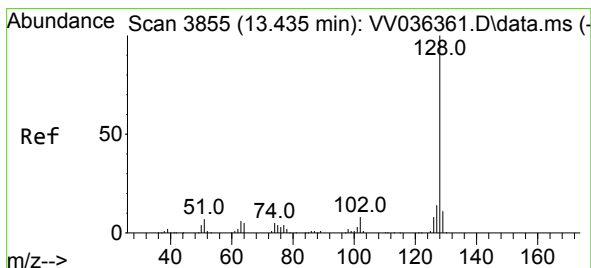
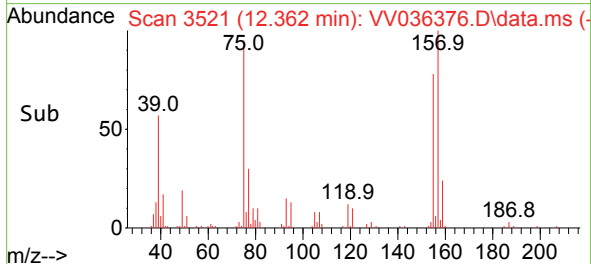
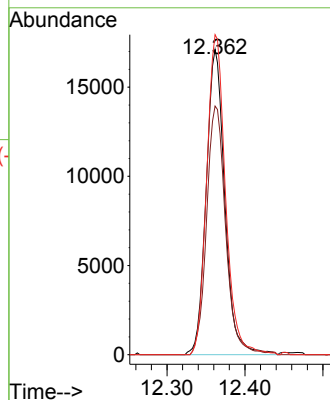
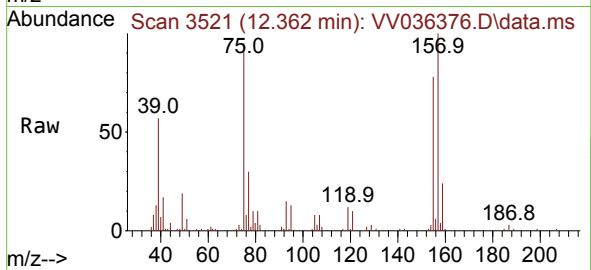
Acq: 01 Jul 2024 15:25

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 75	Resp: 28446
Ion Ratio	Lower Upper
75	100
155	81.4 68.3 102.5
157	104.8 95.7 143.5



#71

Naphthalene

Concen: 70.133 ug/L

RT: 13.435 min Scan# 3855

Delta R.T. 0.000 min

Lab File: VV036376.D

Acq: 01 Jul 2024 15:25

Tgt Ion: 128	Resp: 821798
Ion Ratio	Lower Upper
128	100
127	13.7 10.8 16.2
129	11.0 8.6 13.0

