

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW060424\
 Data File : VW035973.D
 Acq On : 04 Jun 2024 13:15
 Operator : SY/MD
 Sample : P2695-16DL 2X
 Misc : 5.00g/10.0mL/MSVOA_V/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 A4DF8DL

Quant Time: Jun 05 04:05:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM053024SMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jun 05 04:01:54 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.532	114	461248	25.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	460100	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	217124	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.272	65	198608	23.421	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.680%
7) Chloroethane-d5	1.526	69	161235m	23.845	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.400%
11) 1,1-Dichloroethene-d2	2.050	65	88978	23.570	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	94.280%
21) 2-Butanone-d5	3.838	46	96822	49.764	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	99.520%
24) Chloroform-d	4.246	84	349160	23.811	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.240%
26) 1,2-Dichloroethane-d4	4.937	65	184728	24.027	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.120%
32) Benzene-d6	4.957	84	679538	24.847	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	99.400%
36) 1,2-Dichloropropane-d6	5.985	67	220034	25.548	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	102.200%
41) Toluene-d8	7.239	98	646362	26.785	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	107.160%
43) trans-1,3-Dichloroprop...	7.555	79	90114	25.518	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	102.080%
47) 2-Hexanone-d5	8.030	63	61983	53.118	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	106.240%
56) 1,1,2,2-Tetrachloroeth...	10.149	84	154067	23.939	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	95.760%
66) 1,2-Dichlorobenzene-d4	11.558	152	214514	26.942	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	107.760%
Target Compounds						Qvalue
13) Acetone	2.150	43	364701	120.335	ug/L	# 43
16) Methylene chloride	2.439	84	231186	22.150	ug/L	97
17) trans-1,2-Dichloroethene	2.687	96	171733	21.888	ug/L	97
18) Methyl tert-butyl Ether	2.703	73	196405	11.150	ug/L	99
19) 1,1-Dichloroethane	3.105	63	447026	29.918	ug/L	99
20) cis-1,2-Dichloroethene	3.809	96	292761	37.134	ug/L	99
22) 2-Butanone	3.912	43	104323m	40.567	ug/L	
25) Chloroform	4.272	83	247219	16.084	ug/L	100
31) Carbon tetrachloride	4.732	117	82949	7.517	ug/L	100
33) Benzene	5.005	78	1242258	41.282	ug/L	100
34) Trichloroethene	5.828	95	440348	47.746	ug/L	100
38) Bromodichloromethane	6.429	83	329691	31.524	ug/L	100
39) cis-1,3-Dichloropropene	6.950	75	453143	38.343	ug/L	99
40) 4-Methyl-2-pentanone	7.159	43	641753	149.491	ug/L	98
42) Toluene	7.313	91	593396	19.298	ug/L	100
45) 1,1,2-Trichloroethane	7.767	97	155580	23.797	ug/L	97
46) Tetrachloroethene	7.902	164	132482	19.641	ug/L	98
49) Dibromochloromethane	8.172	129	296127	41.386	ug/L	100
50) 1,2-Dibromoethane	8.281	107	109071	17.387	ug/L	98

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Quant Title : VOC Analysis
QLast Update : Wed Jun 05 04:01:54 2024
Response via : Initial Calibration

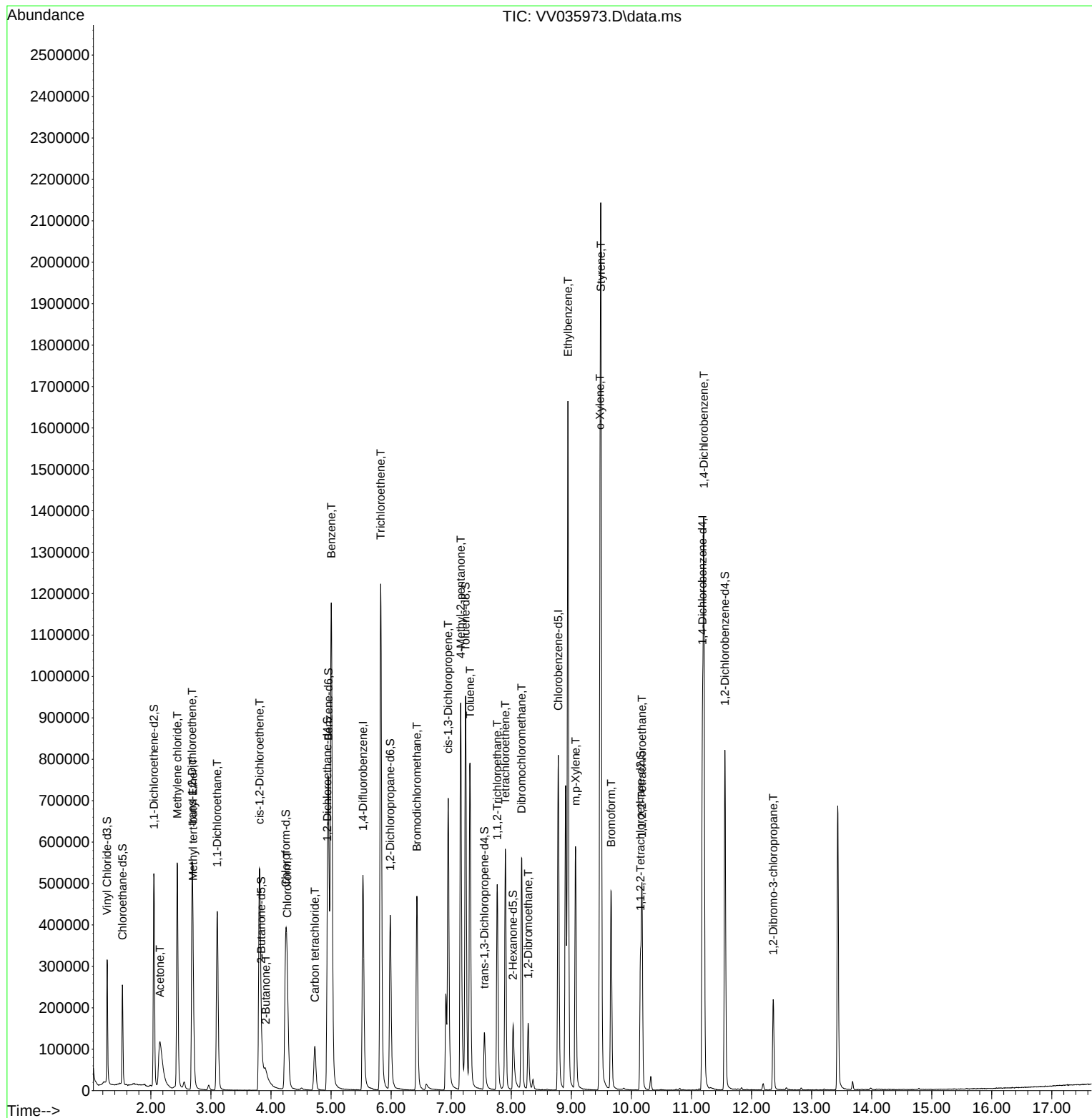
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	8.944	91	1126290	34.236	ug/L	99
53) m,p-Xylene	9.072	106	167710	13.567	ug/L	99
54) o-Xylene	9.477	106	251199	21.549	ug/L	100
55) Styrene	9.493	104	891590	43.372	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.175	83	238813	40.794	ug/L	100
59) Bromoform	9.664	173	220424	53.832	ug/L	99
65) 1,4-Dichlorobenzene	11.207	146	530980	35.166	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.361	75	57311	49.910	ug/L	97

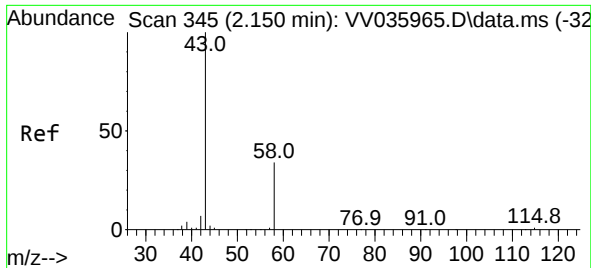
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 120.335 ug/L

RT: 2.150 min Scan# 345

Delta R.T. -0.000 min

Lab File: VV035973.D

Acq: 04 Jun 2024 13:15

Instrument :

MSVOA_V

ClientSampleId :

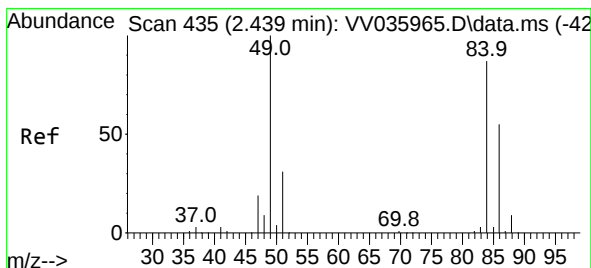
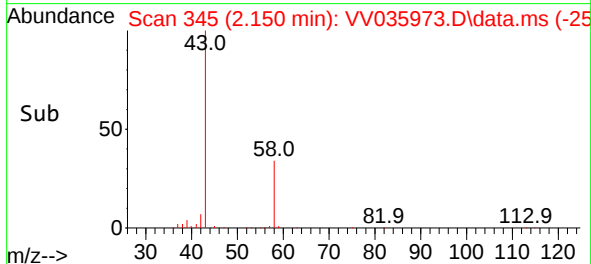
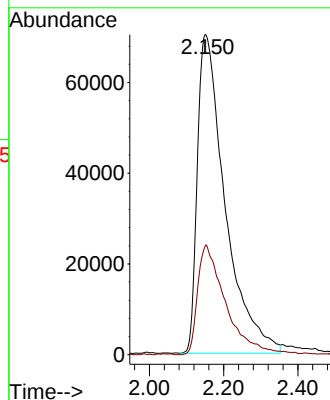
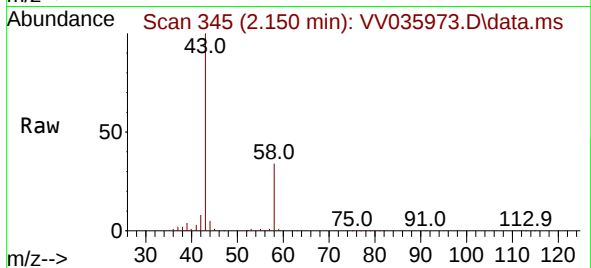
A4DF8DL

Tgt Ion: 43 Resp: 364701

Ion Ratio Lower Upper

43 100

58 34.3 0.0 24.2#



#16

Methylene chloride

Concen: 22.150 ug/L

RT: 2.439 min Scan# 435

Delta R.T. -0.000 min

Lab File: VV035973.D

Acq: 04 Jun 2024 13:15

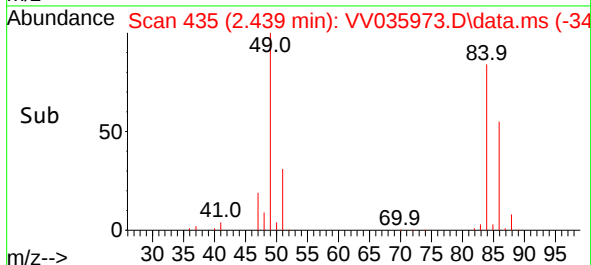
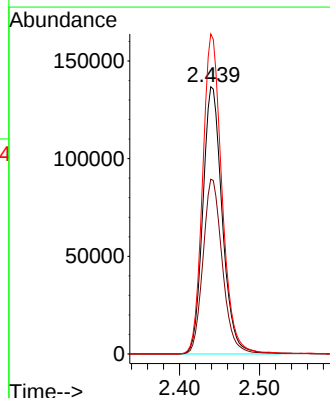
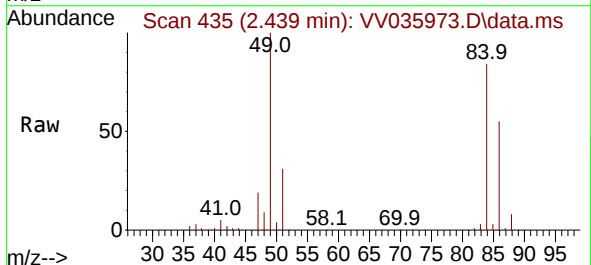
Tgt Ion: 84 Resp: 231186

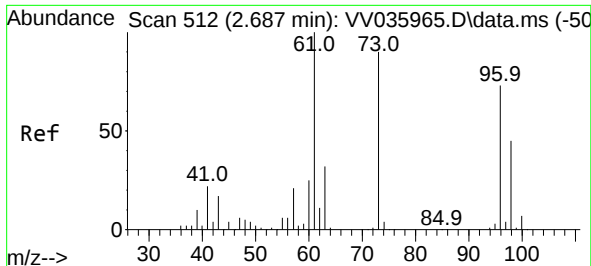
Ion Ratio Lower Upper

84 100

86 65.4 44.6 82.8

49 119.7 81.1 150.5





#17

trans-1,2-Dichloroethene

Concen: 21.888 ug/L

RT: 2.687 min Scan# 512

Delta R.T. -0.000 min

Lab File: VV035973.D

Acq: 04 Jun 2024 13:15

Instrument :

MSVOA_V

ClientSampleId :

A4DF8DL

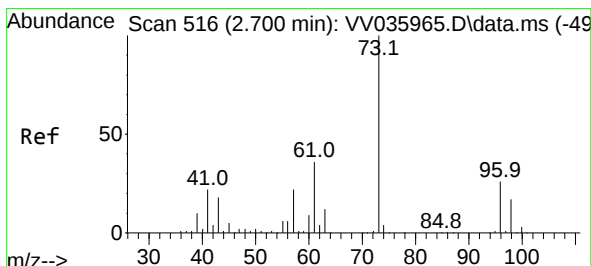
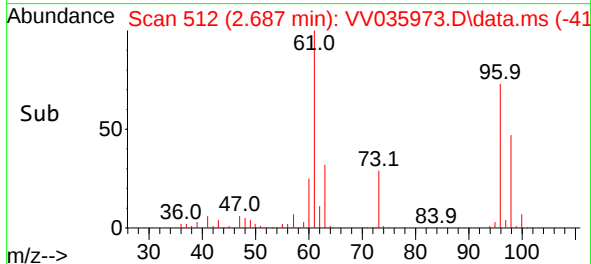
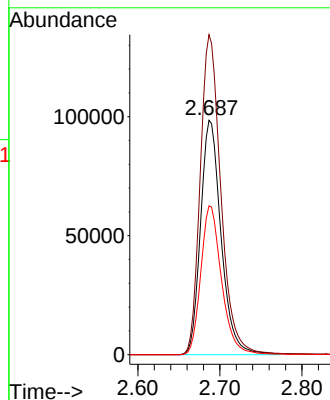
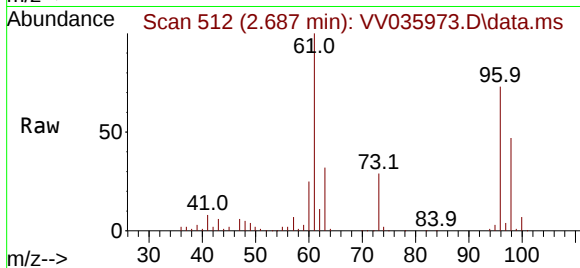
Tgt Ion: 96 Resp: 171733

Ion Ratio Lower Upper

96 100

61 136.5 99.4 184.6

98 63.5 44.9 83.3



#18

Methyl tert-butyl Ether

Concen: 11.150 ug/L

RT: 2.703 min Scan# 517

Delta R.T. 0.003 min

Lab File: VV035973.D

Acq: 04 Jun 2024 13:15

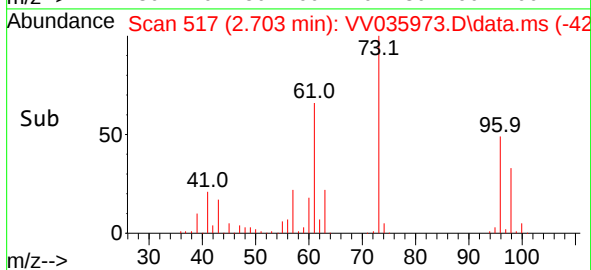
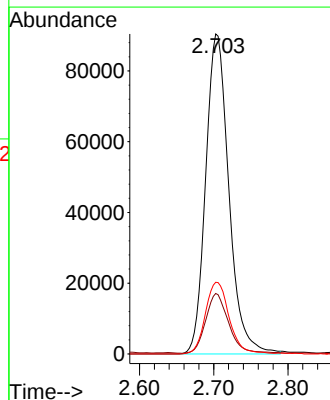
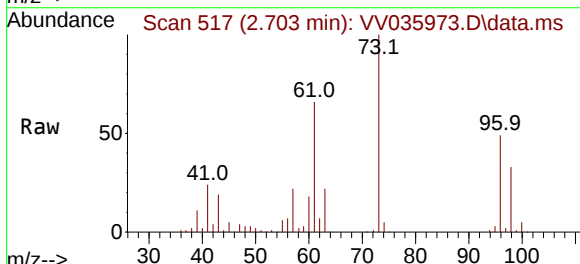
Tgt Ion: 73 Resp: 196405

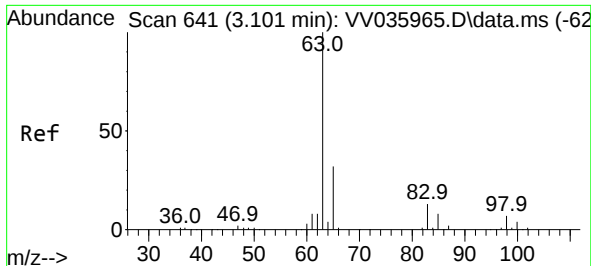
Ion Ratio Lower Upper

73 100

43 18.4 14.3 21.5

57 22.9 17.8 26.6





#19

1,1-Dichloroethane

Concen: 29.918 ug/L

RT: 3.105 min Scan# 641

Delta R.T. 0.003 min

Lab File: VV035973.D

Acq: 04 Jun 2024 13:15

Instrument :

MSVOA_V

ClientSampleId :

A4DF8DL

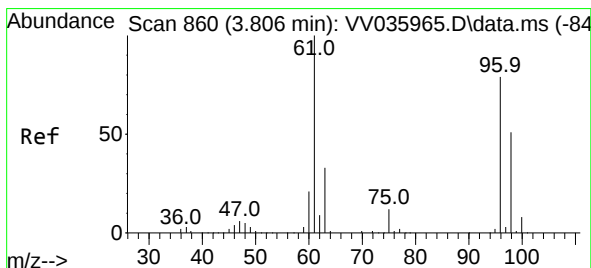
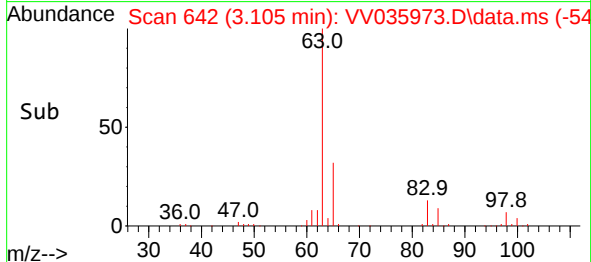
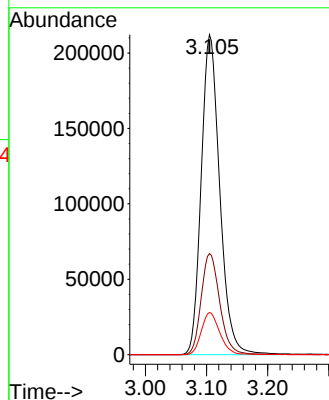
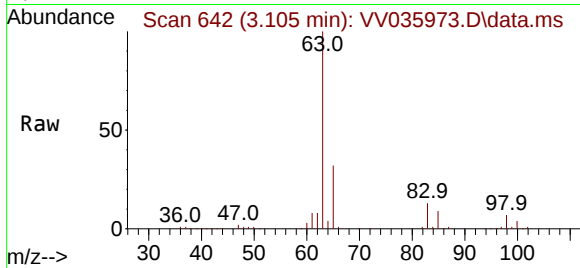
Tgt Ion: 63 Resp: 447026

Ion Ratio Lower Upper

63 100

65 31.6 22.4 41.6

83 13.2 9.2 17.0



#20

cis-1,2-Dichloroethene

Concen: 37.134 ug/L

RT: 3.809 min Scan# 861

Delta R.T. 0.003 min

Lab File: VV035973.D

Acq: 04 Jun 2024 13:15

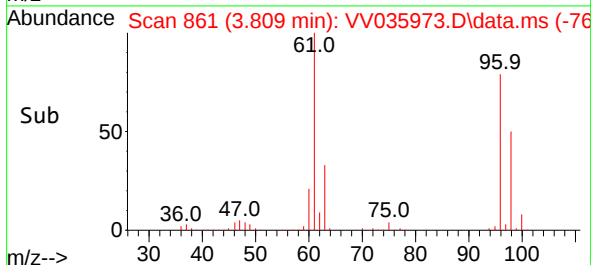
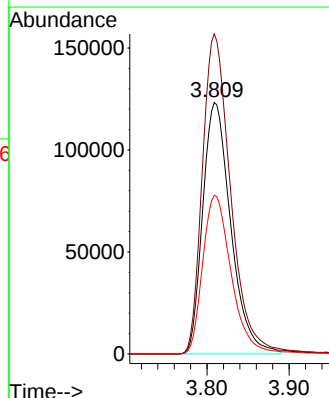
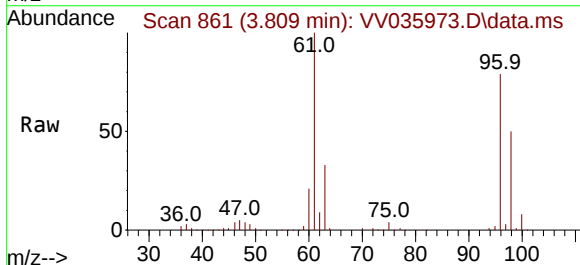
Tgt Ion: 96 Resp: 292761

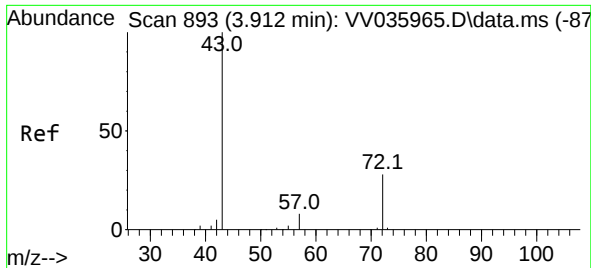
Ion Ratio Lower Upper

96 100

61 127.2 87.9 163.3

98 63.1 44.4 82.5

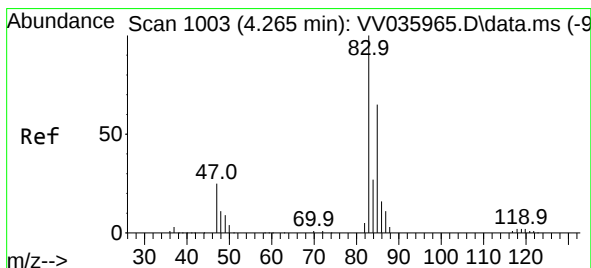
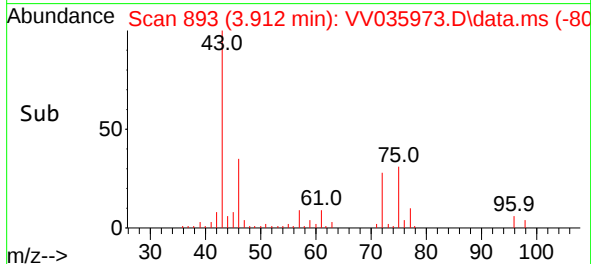
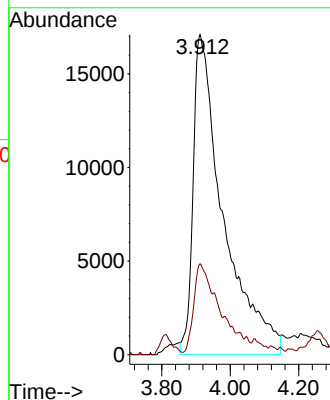
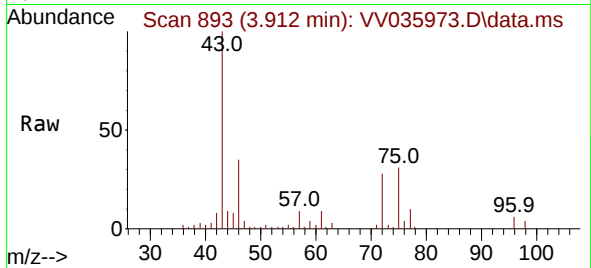




#22
2-Butanone
Concen: 40.567 ug/L m
RT: 3.912 min Scan# 893
Delta R.T. -0.000 min
Lab File: VV035973.D
Acq: 04 Jun 2024 13:15

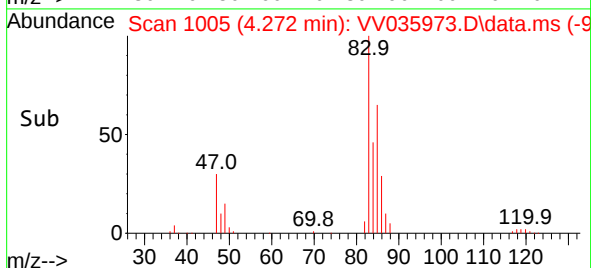
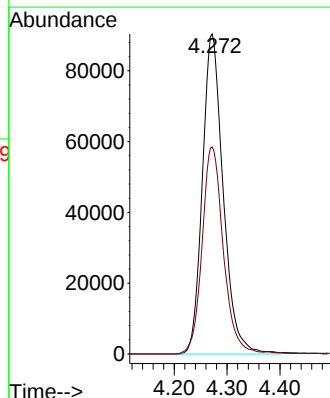
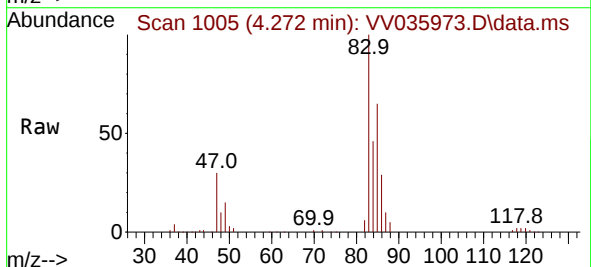
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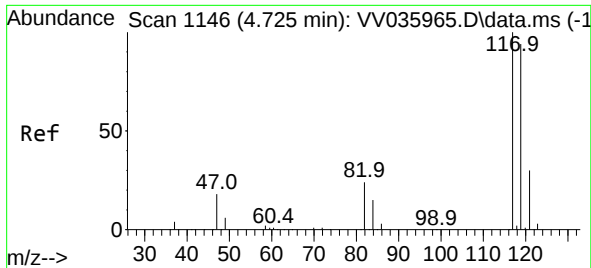
Tgt Ion: 43 Resp: 104323
Ion Ratio Lower Upper
43 100
72 14.1 8.2 24.4



#25
Chloroform
Concen: 16.084 ug/L
RT: 4.272 min Scan# 1005
Delta R.T. 0.006 min
Lab File: VV035973.D
Acq: 04 Jun 2024 13:15

Tgt Ion: 83 Resp: 247219
Ion Ratio Lower Upper
83 100
85 64.7 45.2 84.0

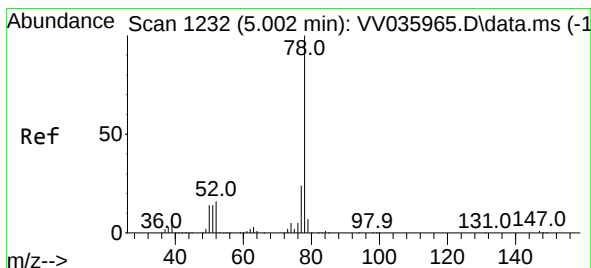
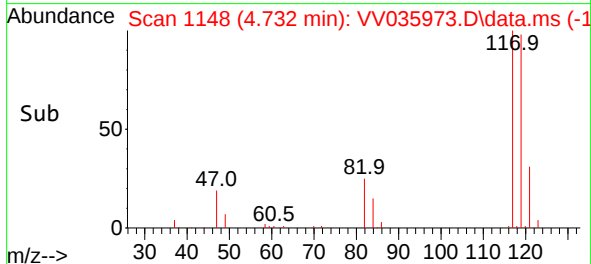
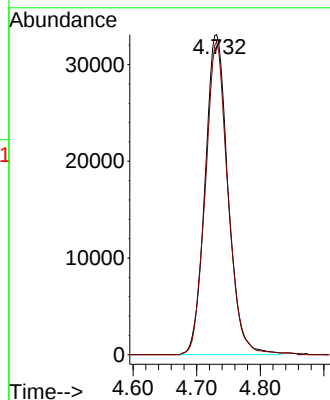
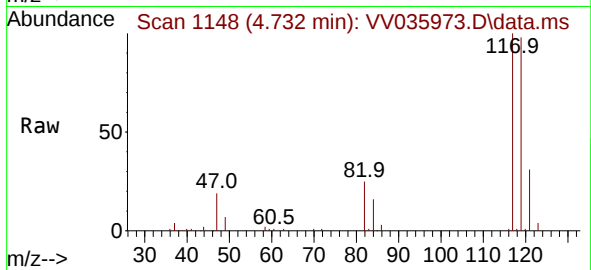




#31
Carbon tetrachloride
Concen: 7.517 ug/L
RT: 4.732 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VV035973.D
Acq: 04 Jun 2024 13:15

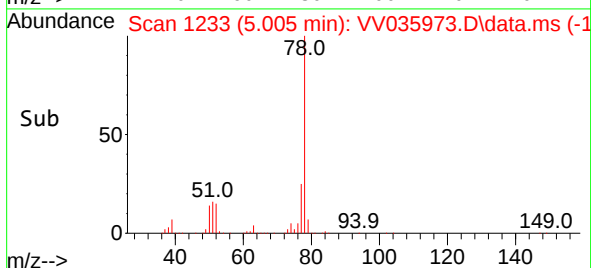
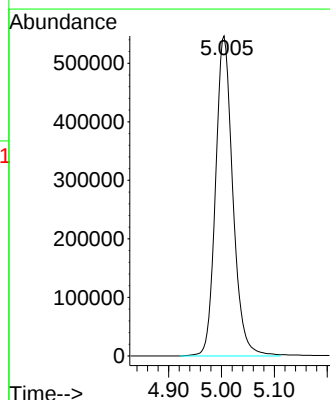
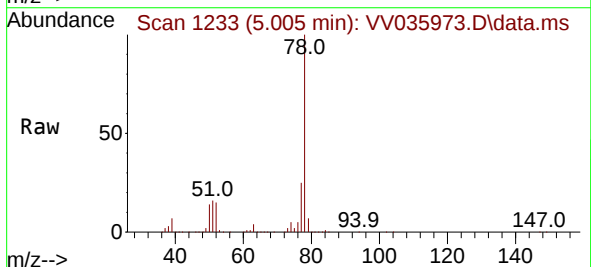
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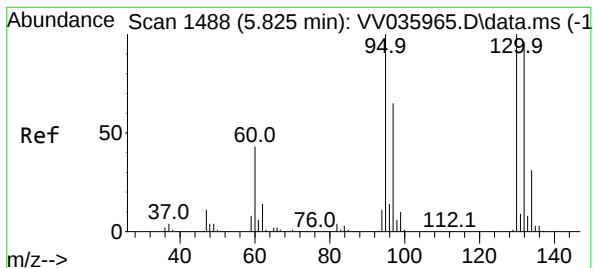
Tgt Ion:117 Resp: 82949
Ion Ratio Lower Upper
117 100
119 96.2 76.8 115.2



#33
Benzene
Concen: 41.282 ug/L
RT: 5.005 min Scan# 1233
Delta R.T. 0.003 min
Lab File: VV035973.D
Acq: 04 Jun 2024 13:15

Tgt Ion: 78 Resp: 1242258





#34

Trichloroethene

Concen: 47.746 ug/L

RT: 5.828 min Scan# 1488

Delta R.T. 0.003 min

Lab File: VV035973.D

Acq: 04 Jun 2024 13:15

Instrument :

MSVOA_V

ClientSampleId :

A4DF8DL

Tgt Ion: 95 Resp: 440348

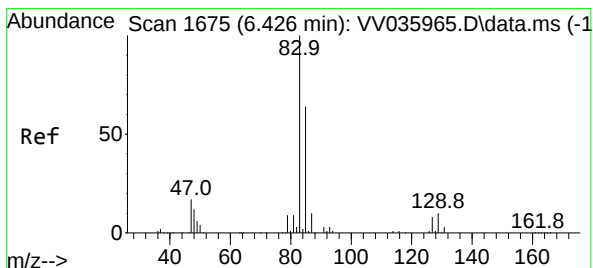
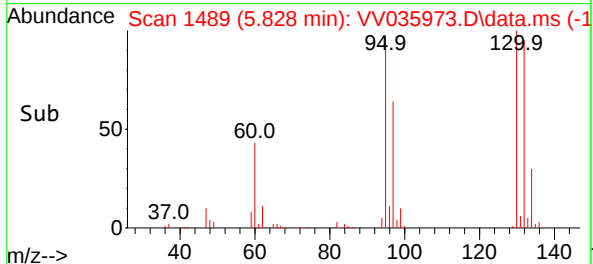
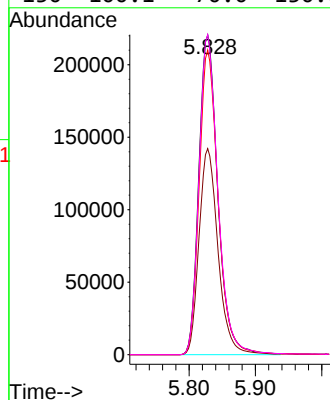
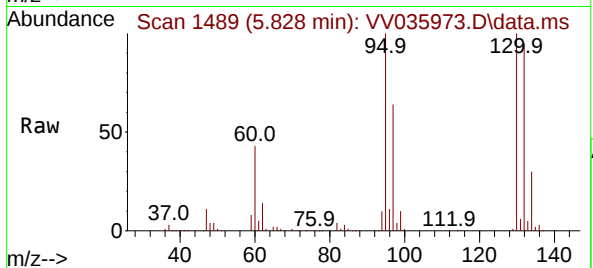
Ion Ratio Lower Upper

95 100

97 64.5 44.8 83.2

132 95.3 66.8 124.2

130 100.1 70.0 130.0



#38

Bromodichloromethane

Concen: 31.524 ug/L

RT: 6.429 min Scan# 1676

Delta R.T. 0.003 min

Lab File: VV035973.D

Acq: 04 Jun 2024 13:15

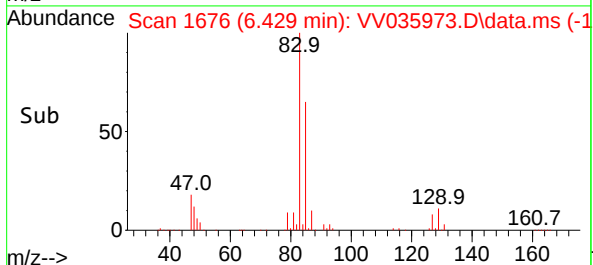
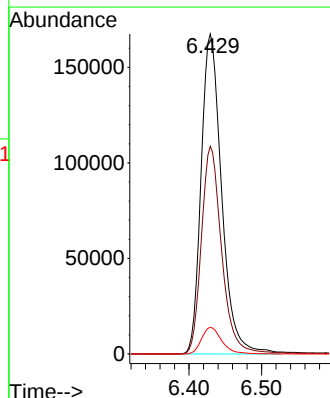
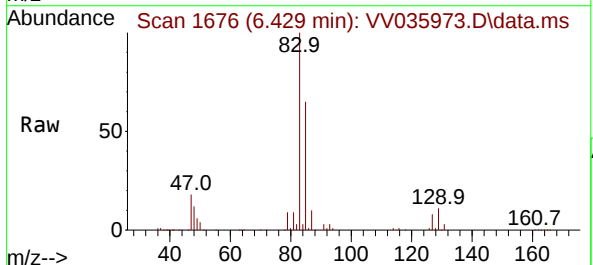
Tgt Ion: 83 Resp: 329691

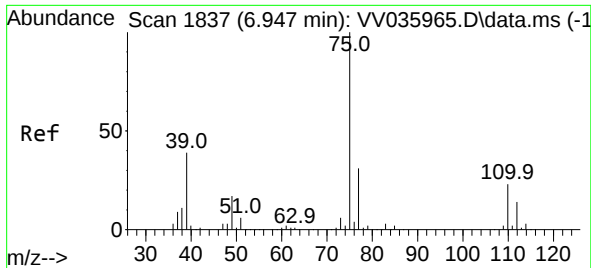
Ion Ratio Lower Upper

83 100

85 64.9 45.3 84.1

127 8.3 6.7 10.1





#39

cis-1,3-Dichloropropene

Concen: 38.343 ug/L

RT: 6.950 min Scan# 1838

Delta R.T. 0.003 min

Lab File: VV035973.D

Acq: 04 Jun 2024 13:15

Instrument :

MSVOA_V

ClientSampleId :

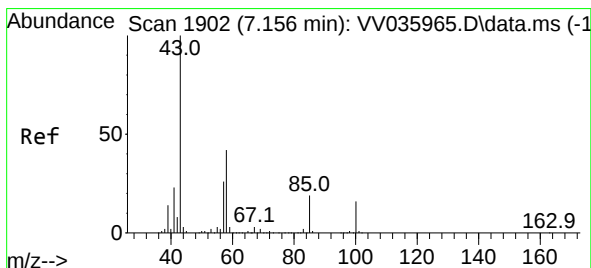
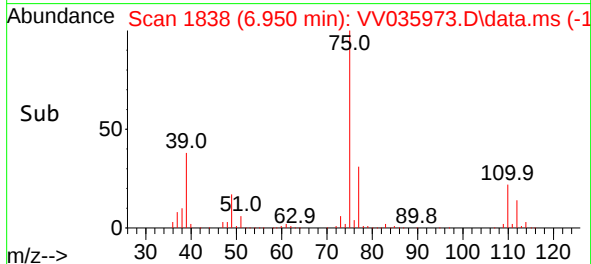
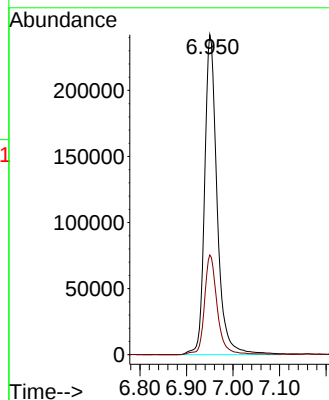
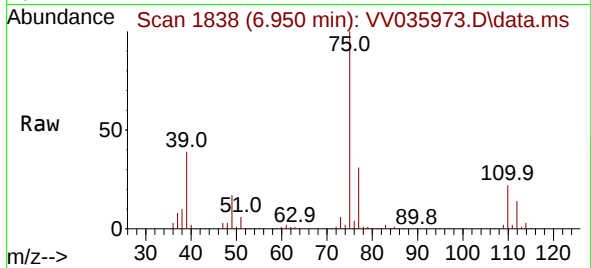
A4DF8DL

Tgt Ion: 75 Resp: 453143

Ion Ratio Lower Upper

75 100

77 31.1 22.1 41.1



#40

4-Methyl-2-pentanone

Concen: 149.491 ug/L

RT: 7.159 min Scan# 1903

Delta R.T. 0.003 min

Lab File: VV035973.D

Acq: 04 Jun 2024 13:15

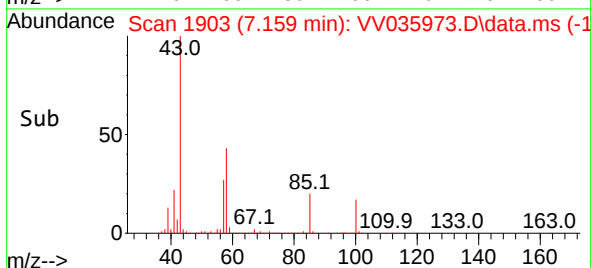
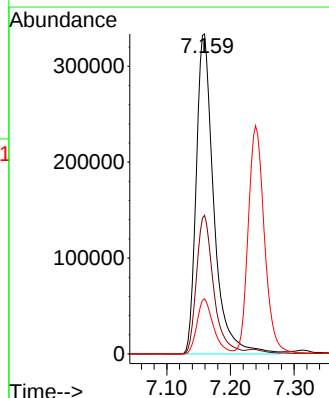
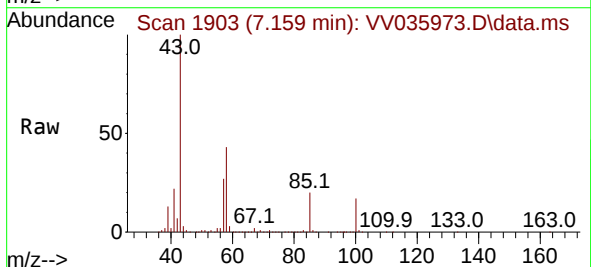
Tgt Ion: 43 Resp: 641753

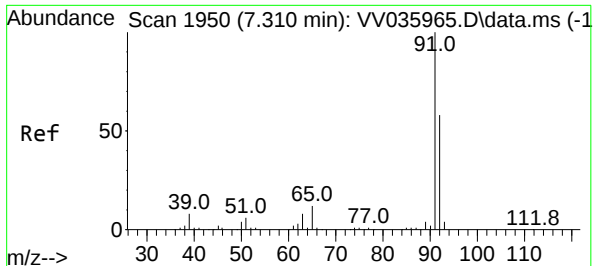
Ion Ratio Lower Upper

43 100

58 42.1 32.5 48.7

100 16.2 12.5 18.7

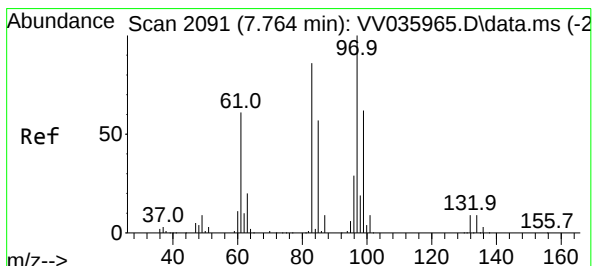
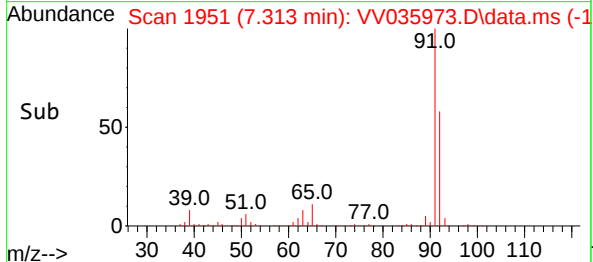
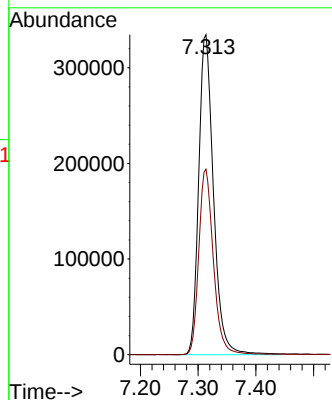
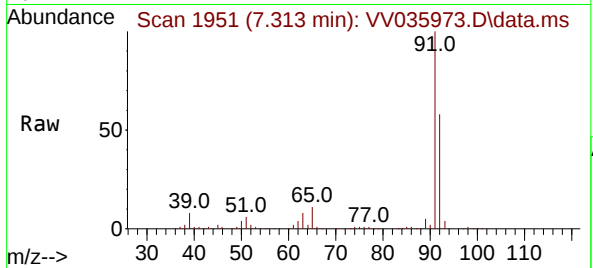




#42
Toluene
Concen: 19.298 ug/L
RT: 7.313 min Scan# 1950
Delta R.T. 0.003 min
Lab File: VV035973.D
Acq: 04 Jun 2024 13:15

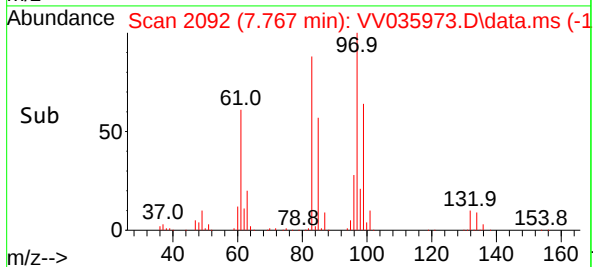
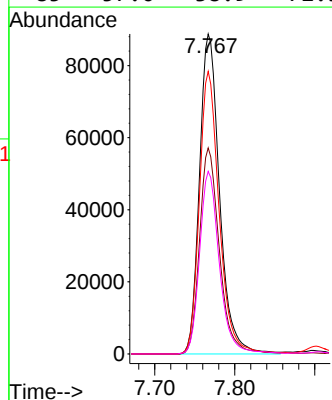
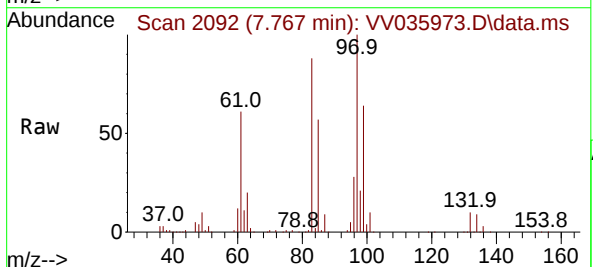
Instrument :
MSVOA_V
ClientSampleId :
A4DF8DL

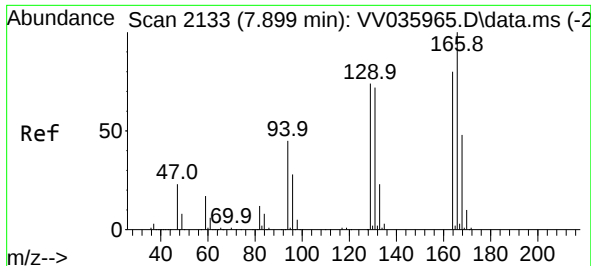
Tgt Ion: 91 Resp: 593396
Ion Ratio Lower Upper
91 100
92 58.0 40.6 75.4



#45
1,1,2-Trichloroethane
Concen: 23.797 ug/L
RT: 7.767 min Scan# 2092
Delta R.T. 0.003 min
Lab File: VV035973.D
Acq: 04 Jun 2024 13:15

Tgt Ion: 97 Resp: 155580
Ion Ratio Lower Upper
97 100
99 64.4 43.3 80.5
83 88.3 60.1 111.7
85 57.0 38.9 72.3

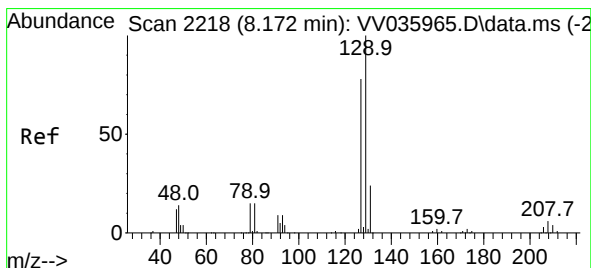
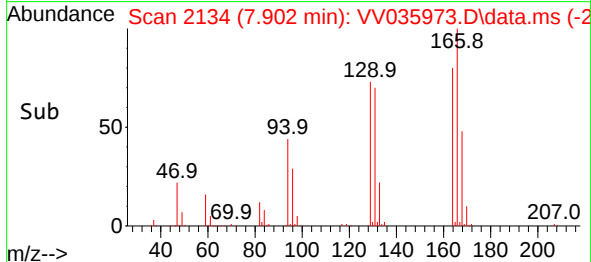
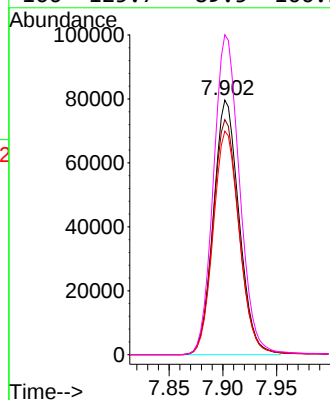
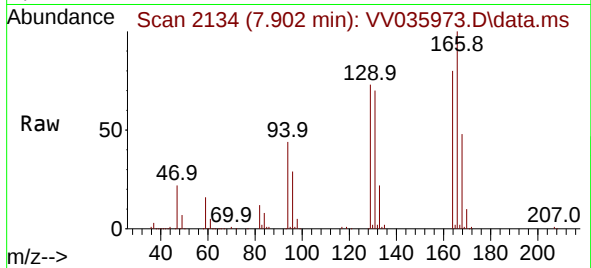




#46
Tetrachloroethene
Concen: 19.641 ug/L
RT: 7.902 min Scan# 2133
Delta R.T. 0.003 min
Lab File: VV035973.D
Acq: 04 Jun 2024 13:15

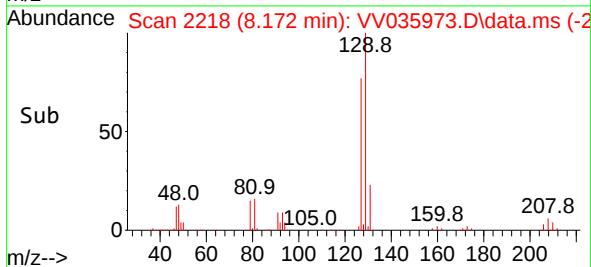
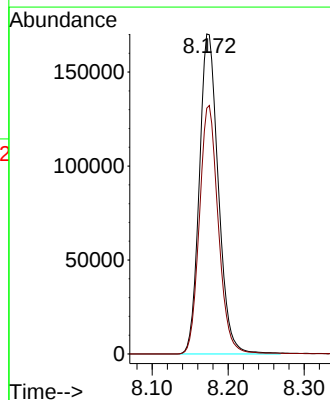
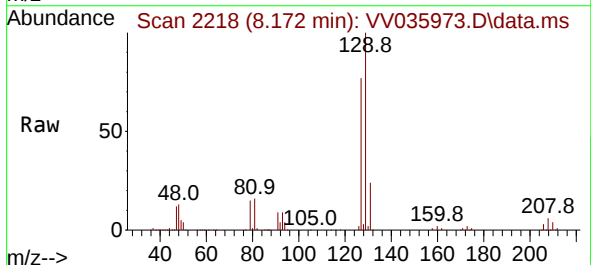
Instrument :
MSVOA_V
ClientSampleId :
A4DF8DL

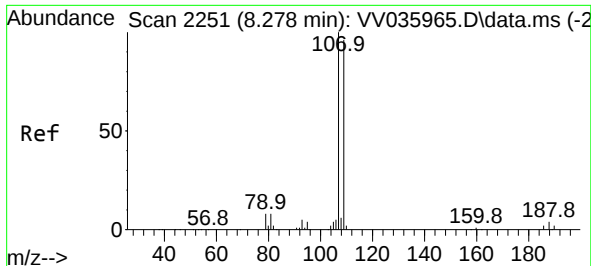
Tgt Ion:164 Resp: 132482
Ion Ratio Lower Upper
164 100
129 92.3 64.6 120.0
131 87.8 63.2 117.4
166 125.7 89.5 166.3



#49
Dibromochloromethane
Concen: 41.386 ug/L
RT: 8.172 min Scan# 2218
Delta R.T. -0.000 min
Lab File: VV035973.D
Acq: 04 Jun 2024 13:15

Tgt Ion:129 Resp: 296127
Ion Ratio Lower Upper
129 100
127 76.8 53.9 100.1





#50

1,2-Dibromoethane

Concen: 17.387 ug/L

RT: 8.281 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV035973.D

Acq: 04 Jun 2024 13:15

Instrument :

MSVOA_V

ClientSampleId :

A4DF8DL

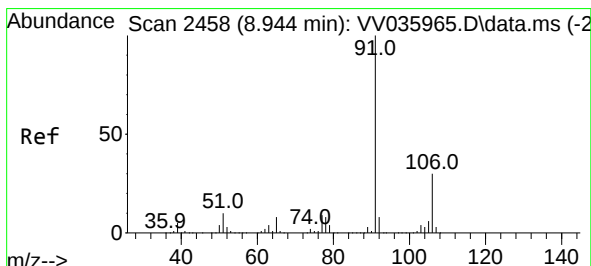
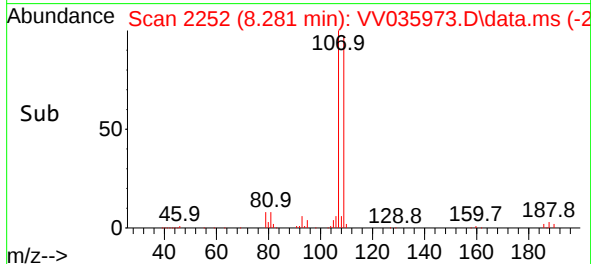
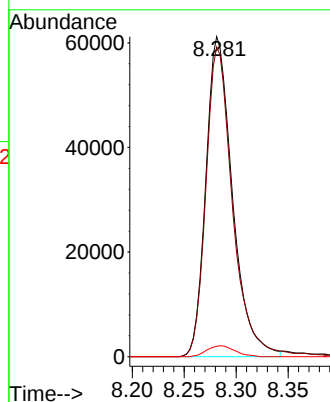
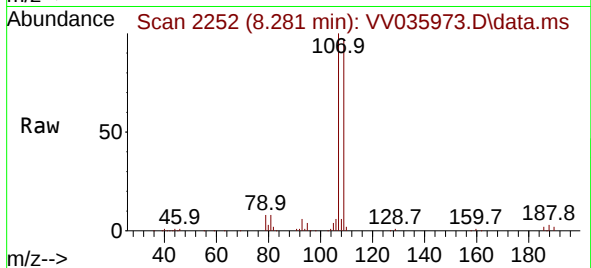
Tgt Ion:107 Resp: 109071

Ion Ratio Lower Upper

107 100

109 96.8 66.1 122.7

188 3.2 3.0 4.6



#52

Ethylbenzene

Concen: 34.236 ug/L

RT: 8.944 min Scan# 2458

Delta R.T. -0.000 min

Lab File: VV035973.D

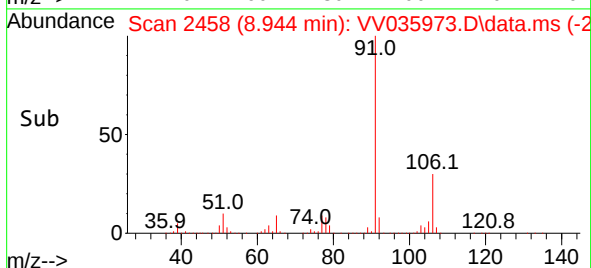
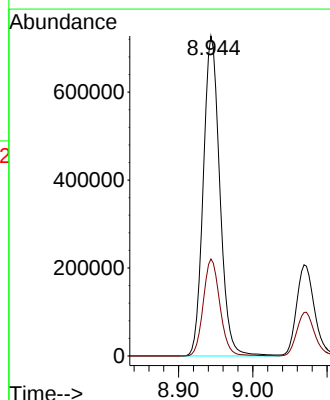
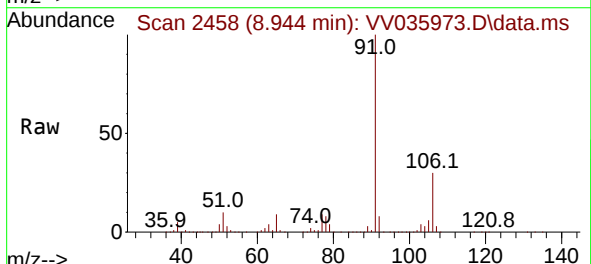
Acq: 04 Jun 2024 13:15

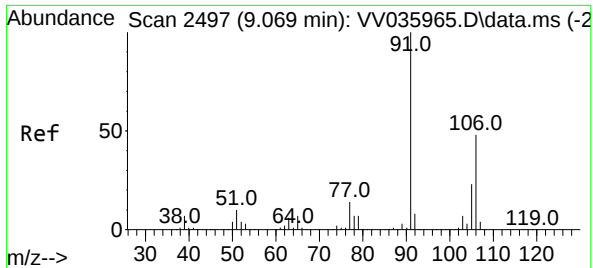
Tgt Ion: 91 Resp: 1126290

Ion Ratio Lower Upper

91 100

106 30.3 21.6 40.0

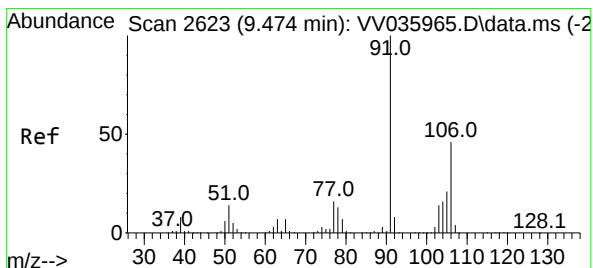
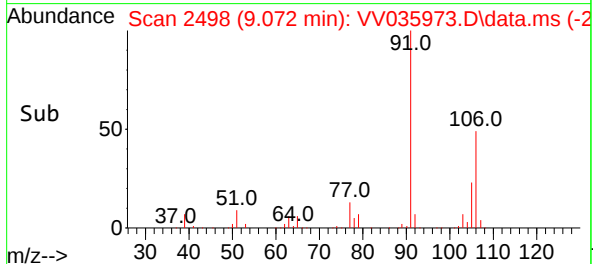
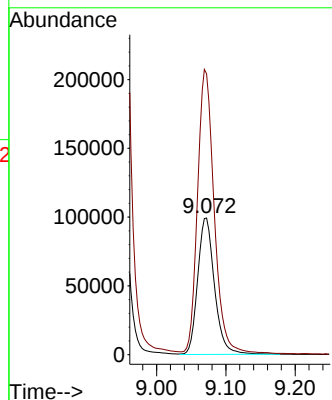
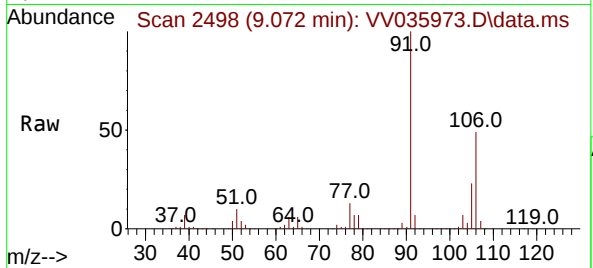




#53
m,p-Xylene
Concen: 13.567 ug/L
RT: 9.072 min Scan# 2497
Delta R.T. 0.003 min
Lab File: VV035973.D
Acq: 04 Jun 2024 13:15

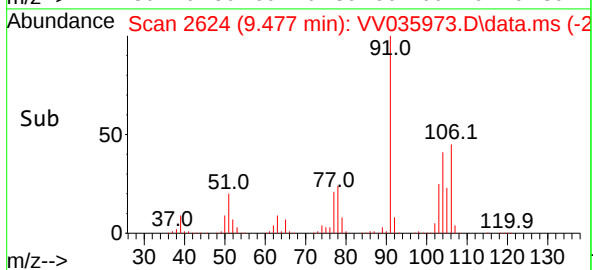
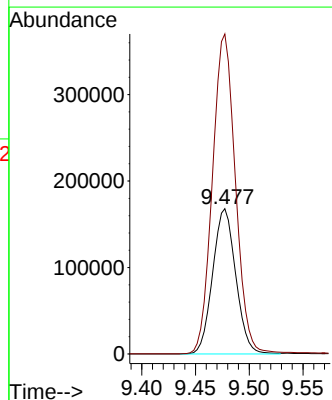
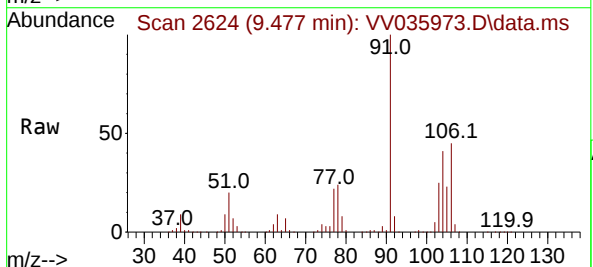
Instrument :
MSVOA_V
ClientSampleId :
A4DF8DL

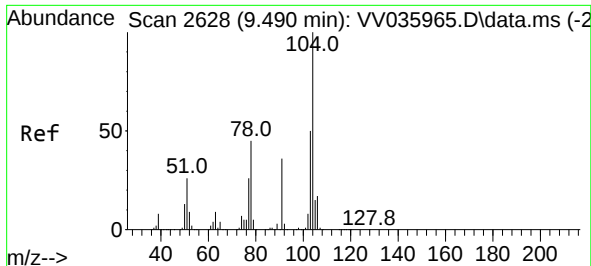
Tgt Ion:106 Resp: 167710
Ion Ratio Lower Upper
106 100
91 205.5 143.1 265.9



#54
o-Xylene
Concen: 21.549 ug/L
RT: 9.477 min Scan# 2624
Delta R.T. 0.003 min
Lab File: VV035973.D
Acq: 04 Jun 2024 13:15

Tgt Ion:106 Resp: 251199
Ion Ratio Lower Upper
106 100
91 220.3 154.5 286.9

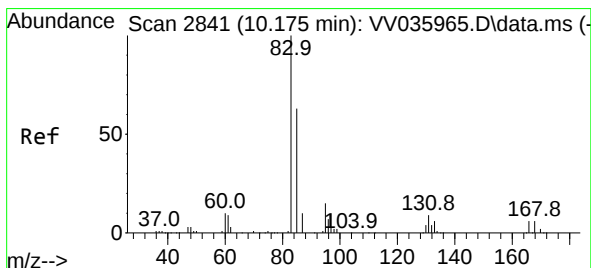
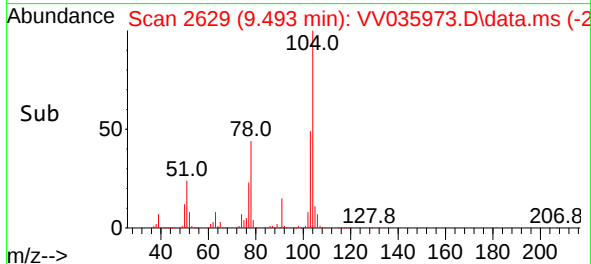
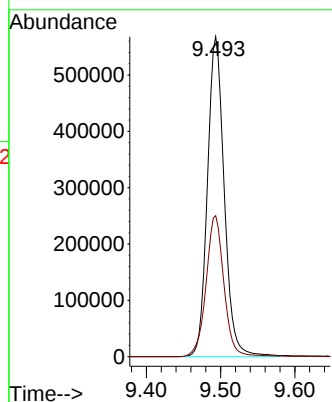
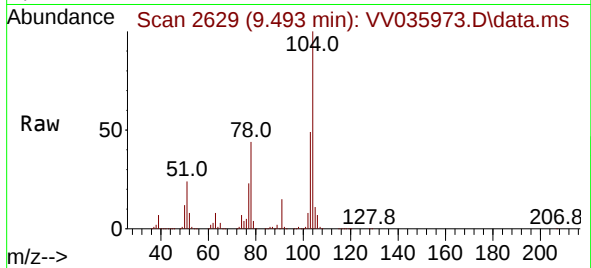




#55
Styrene
Concen: 43.372 ug/L
RT: 9.493 min Scan# 2629
Delta R.T. 0.003 min
Lab File: VV035973.D
Acq: 04 Jun 2024 13:15

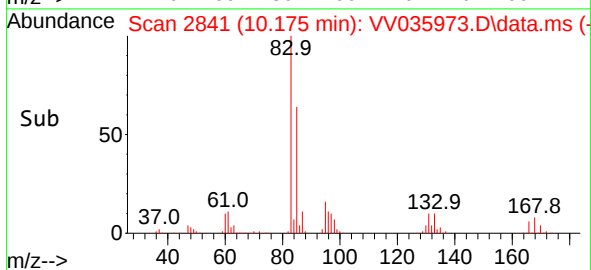
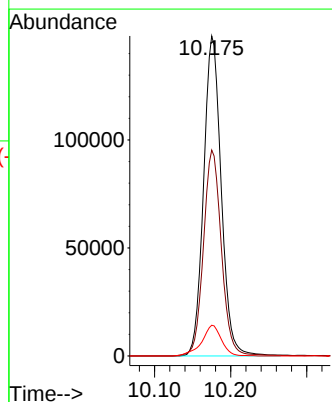
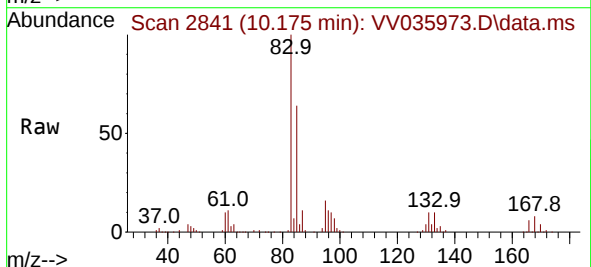
Instrument :
MSVOA_V
ClientSampleId :
A4DF8DL

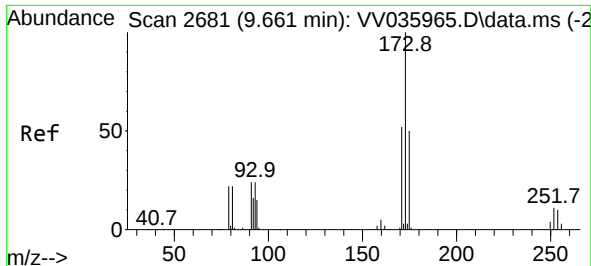
Tgt Ion:104 Resp: 891590
Ion Ratio Lower Upper
104 100
78 44.1 31.4 58.2



#57
1,1,2,2-Tetrachloroethane
Concen: 40.794 ug/L
RT: 10.175 min Scan# 2841
Delta R.T. -0.000 min
Lab File: VV035973.D
Acq: 04 Jun 2024 13:15

Tgt Ion: 83 Resp: 238813
Ion Ratio Lower Upper
83 100
85 64.3 45.1 83.7
131 9.6 7.6 11.4

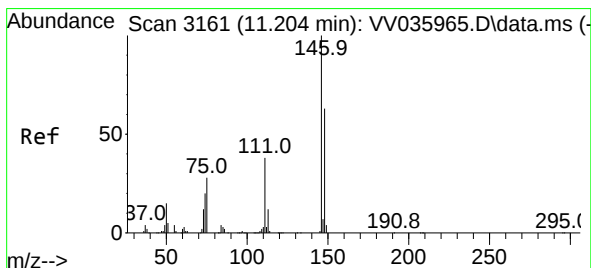
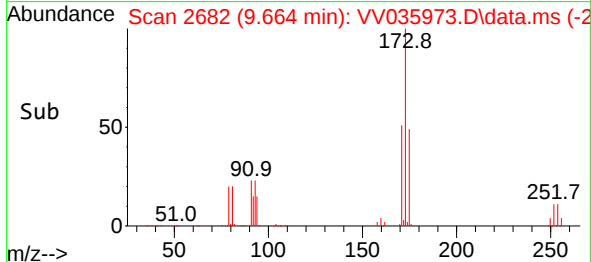
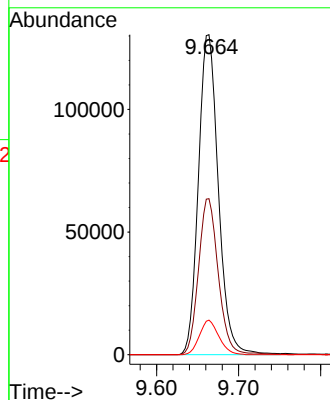
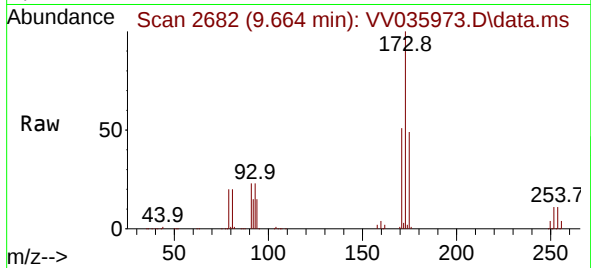




#59
Bromoform
Concen: 53.832 ug/L
RT: 9.664 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV035973.D
Acq: 04 Jun 2024 13:15

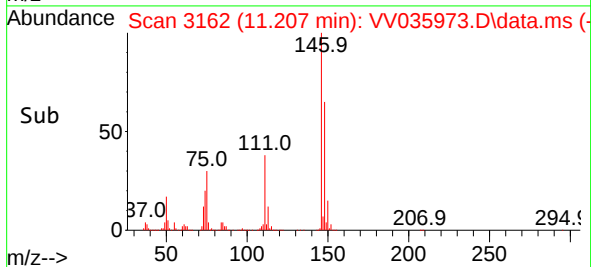
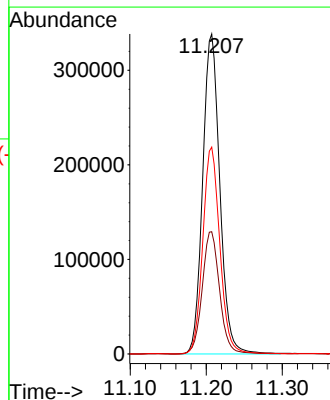
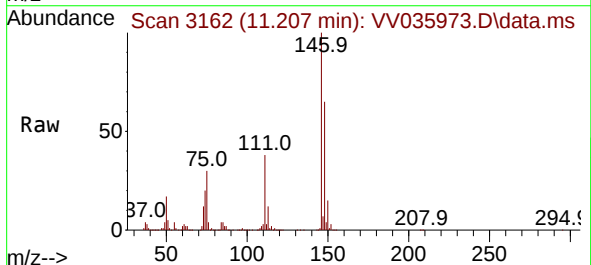
Instrument :
MSVOA_V
ClientSampleId :
A4DF8DL

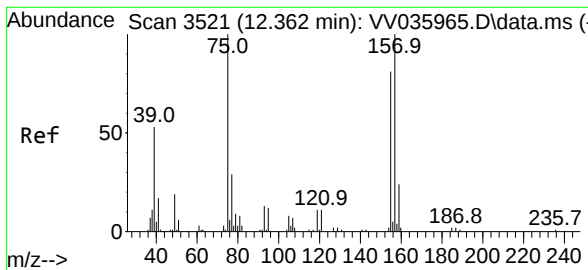
Tgt Ion:173 Resp: 220424
Ion Ratio Lower Upper
173 100
175 47.8 39.0 58.6
254 10.5 8.6 13.0



#65
1,4-Dichlorobenzene
Concen: 35.166 ug/L
RT: 11.207 min Scan# 3162
Delta R.T. 0.003 min
Lab File: VV035973.D
Acq: 04 Jun 2024 13:15

Tgt Ion:146 Resp: 530980
Ion Ratio Lower Upper
146 100
111 38.2 26.9 50.1
148 64.6 44.5 82.7





#68
 1,2-Dibromo-3-chloropropane
 Concen: 49.910 ug/L
 RT: 12.361 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VV035973.D
 Acq: 04 Jun 2024 13:15

Instrument :
 MSVOA_V
 ClientSampleId :
 A4DF8DL

Tgt Ion:	75	Resp:	57311
Ion	Ratio	Lower	Upper
75	100		
155	81.6	63.3	94.9
157	105.3	82.4	123.6

