

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW070124\
 Data File : VW036369.D
 Acq On : 01 Jul 2024 12:44
 Operator : SY/MD
 Sample : P3035-29DL 2X
 Misc : 5.00g/10.0mL/MSVOA_V/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 A4DK0DL

Quant Time: Jul 02 02:36:46 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	289803	25.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	320031	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.181	152	137776	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.272	65	109944	22.338	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.360%
7) Chloroethane-d5	1.526	69	98255	24.994	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	99.960%
11) 1,1-Dichloroethene-d2	2.050	65	53628	23.178	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	92.720%
21) 2-Butanone-d5	3.844	46	52227	45.721	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	91.440%
24) Chloroform-d	4.243	84	239155	27.957	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	111.840%
26) 1,2-Dichloroethane-d4	4.937	65	124437	27.277	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	109.120%
32) Benzene-d6	4.953	84	404178	22.373	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	89.480%
36) 1,2-Dichloropropane-d6	5.986	67	134175	24.692	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.760%
41) Toluene-d8	7.239	98	389003	23.882	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	95.520%
43) trans-1,3-Dichloroprop...	7.551	79	56812	23.412	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.640%
47) 2-Hexanone-d5	8.030	63	39541	45.586	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	91.180%
56) 1,1,2,2-Tetrachloroeth...	10.149	84	106646	23.942	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	95.760%
66) 1,2-Dichlorobenzene-d4	11.558	152	138767	27.639	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	110.560%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	2.060	96	236985	51.915	ug/L #	80
13) Acetone	2.163	43	134013	86.838	ug/L #	69
16) Methylene chloride	2.439	84	174429	30.573	ug/L	99
18) Methyl tert-butyl Ether	2.703	73	590583	55.977	ug/L	99
19) 1,1-Dichloroethane	3.105	63	293353	36.403	ug/L	98
22) 2-Butanone	3.908	43	130625	100.383	ug/L #	72
25) Chloroform	4.269	83	435494	50.668	ug/L	99
33) Benzene	5.005	78	169946	8.966	ug/L	100
37) 1,2-Dichloropropane	6.088	63	107091	22.122	ug/L	98
38) Bromodichloromethane	6.432	83	73462	11.095	ug/L	100
39) cis-1,3-Dichloropropene	6.950	75	254701	34.215	ug/L	100
40) 4-Methyl-2-pentanone	7.159	43	217127	79.528	ug/L	99
42) Toluene	7.310	91	430765	21.734	ug/L	100
44) trans-1,3-Dichloropropene	7.577	75	313722	46.856	ug/L	100
45) 1,1,2-Trichloroethane	7.770	97	43333	10.127	ug/L	98
46) Tetrachloroethene	7.902	164	92448	21.266	ug/L	98
48) 2-Hexanone	8.075	43	221708	103.239	ug/L	98
50) 1,2-Dibromoethane	8.278	107	152377	36.148	ug/L	99
51) Chlorobenzene	8.809	112	396244	29.247	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Tue Jul 02 02:29:42 2024
Response via : Initial Calibration

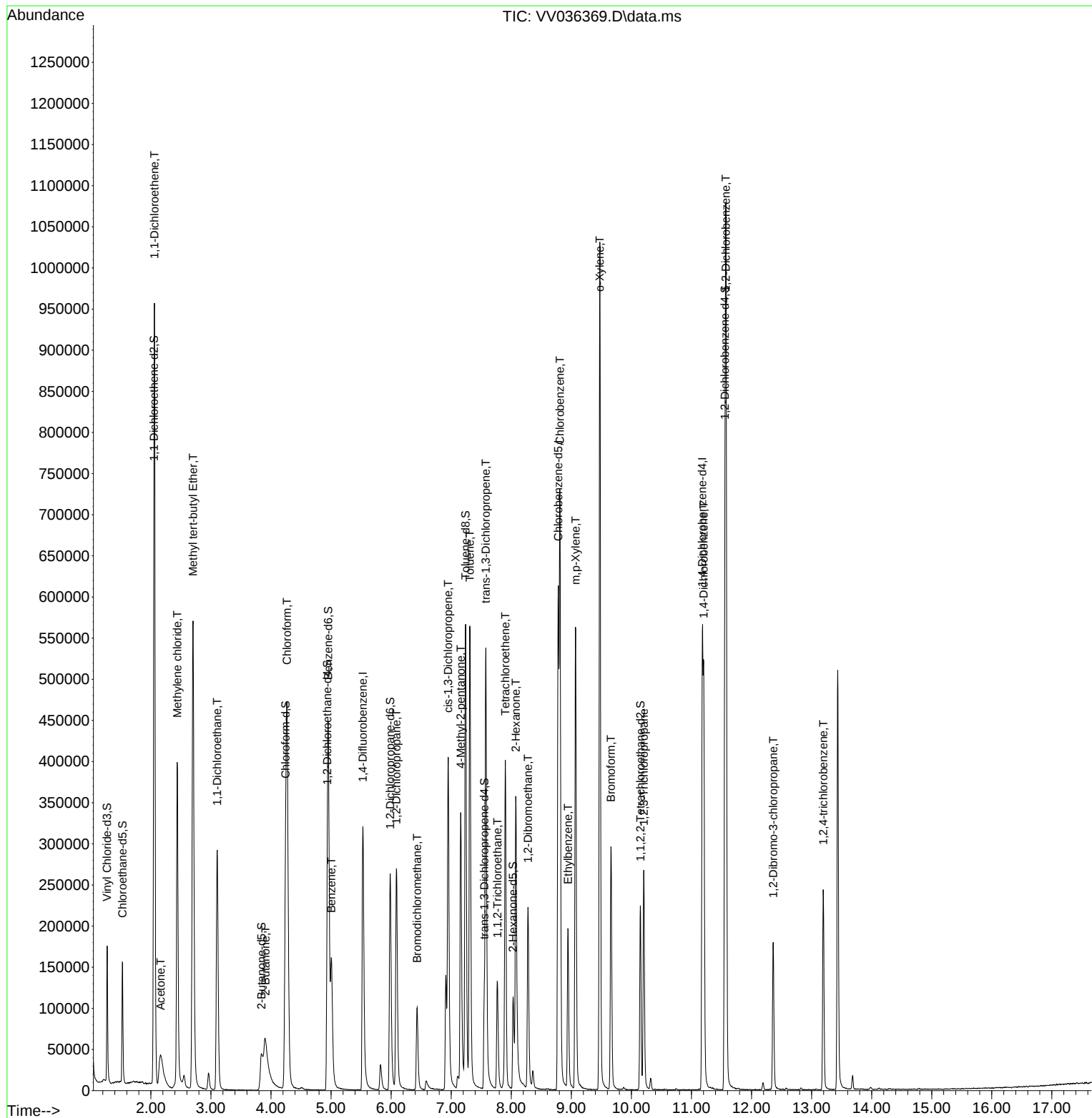
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	8.944	91	139179	6.507	ug/L	99
53) m,p-Xylene	9.072	106	154589	19.393	ug/L	98
54) o-Xylene	9.474	106	262094	34.963	ug/L	99
59) Bromoform	9.661	173	134163	51.442	ug/L	98
61) 1,2,3-Trichloropropane	10.207	75	110136	35.422	ug/L	99
65) 1,4-Dichlorobenzene	11.204	146	193215	20.770	ug/L	98
67) 1,2-Dichlorobenzene	11.574	146	392423	47.366	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.361	75	45055	64.590	ug/L	93
70) 1,2,4-trichlorobenzene	13.194	180	77580	14.888	ug/L	99

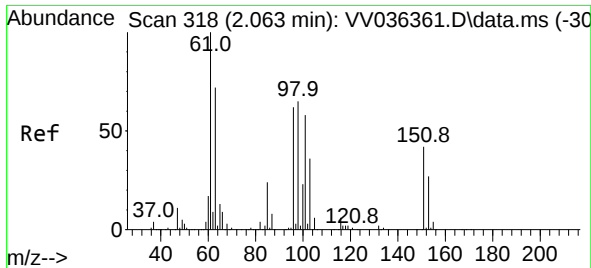
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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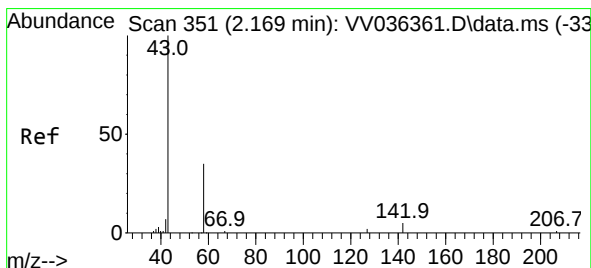
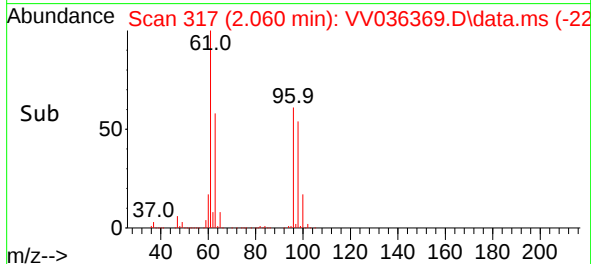
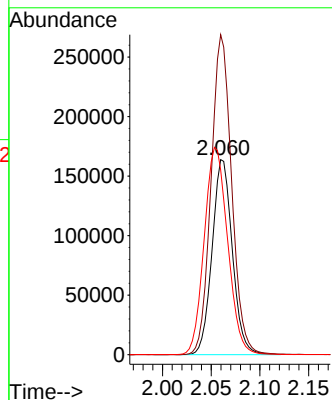
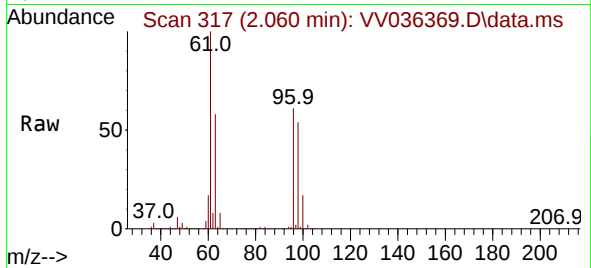




#12
1,1-Dichloroethene
Concen: 51.915 ug/L
RT: 2.060 min Scan# 317
Delta R.T. -0.003 min
Lab File: VV036369.D
Acq: 01 Jul 2024 12:44

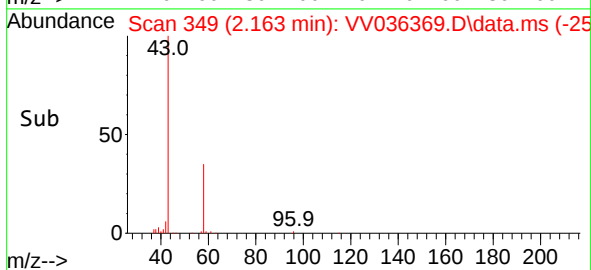
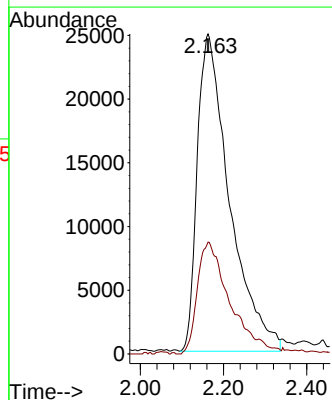
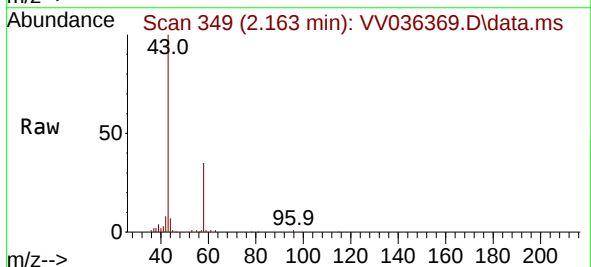
Instrument :
MSVOA_V
ClientSampleId :
A4DK0DL

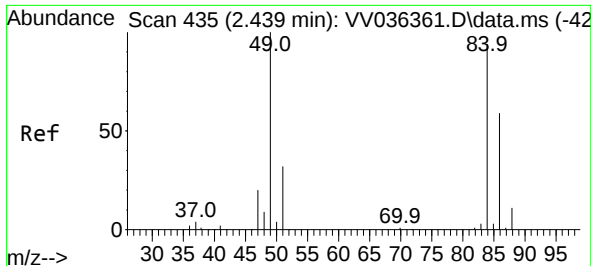
Tgt Ion: 96 Resp: 236985
Ion Ratio Lower Upper
96 100
61 164.1 122.6 227.8
63 94.7 96.1 178.5#



#13
Acetone
Concen: 86.838 ug/L
RT: 2.163 min Scan# 349
Delta R.T. -0.006 min
Lab File: VV036369.D
Acq: 01 Jul 2024 12:44

Tgt Ion: 43 Resp: 134013
Ion Ratio Lower Upper
43 100
58 29.5 0.0 0.6#

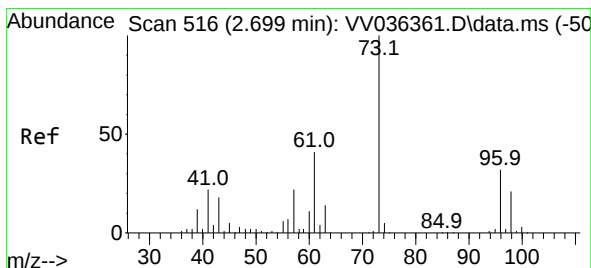
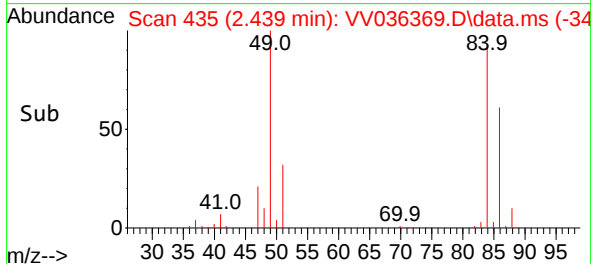
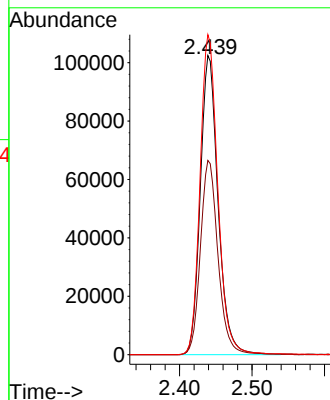
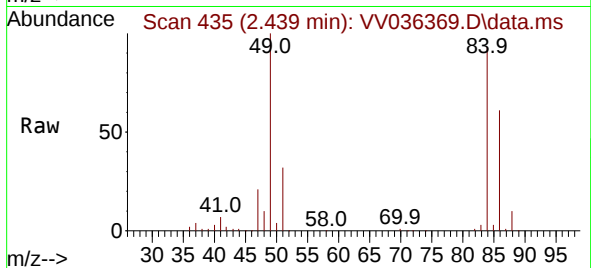




#16
Methylene chloride
Concen: 30.573 ug/L
RT: 2.439 min Scan# 41
Delta R.T. 0.000 min
Lab File: VV036369.D
Acq: 01 Jul 2024 12:44

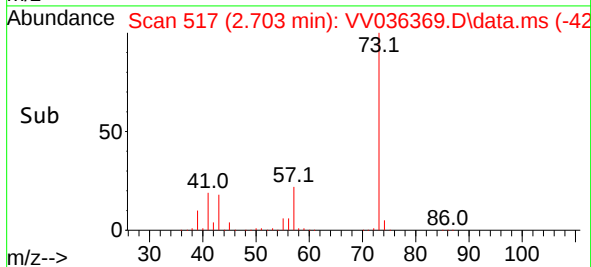
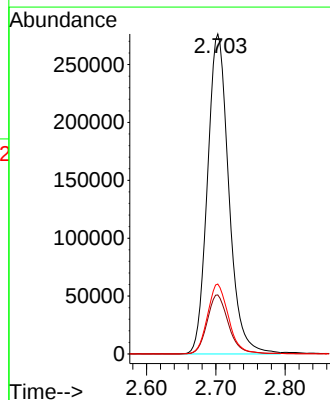
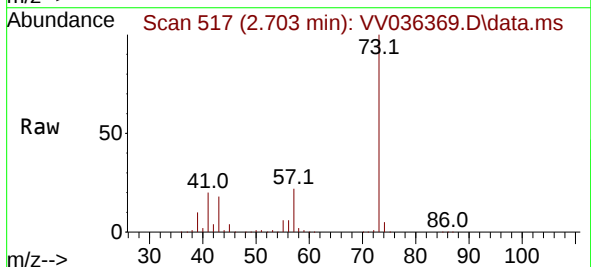
Instrument :
MSVOA_V
ClientSampleId :
A4DK0DL

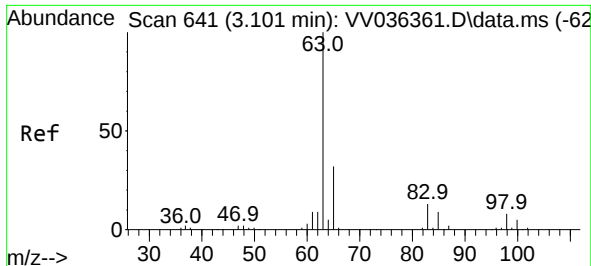
Tgt Ion: 84 Resp: 174429
Ion Ratio Lower Upper
84 100
86 64.9 45.6 84.8
49 107.0 75.7 140.5



#18
Methyl tert-butyl Ether
Concen: 55.977 ug/L
RT: 2.703 min Scan# 517
Delta R.T. 0.003 min
Lab File: VV036369.D
Acq: 01 Jul 2024 12:44

Tgt Ion: 73 Resp: 590583
Ion Ratio Lower Upper
73 100
43 18.3 14.7 22.1
57 21.6 17.0 25.6





#19

1,1-Dichloroethane

Concen: 36.403 ug/L

RT: 3.105 min Scan# 641

Delta R.T. 0.003 min

Lab File: VV036369.D

Acq: 01 Jul 2024 12:44

Instrument :

MSVOA_V

ClientSampleId :

A4DK0DL

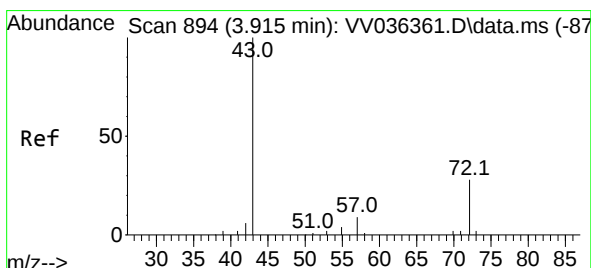
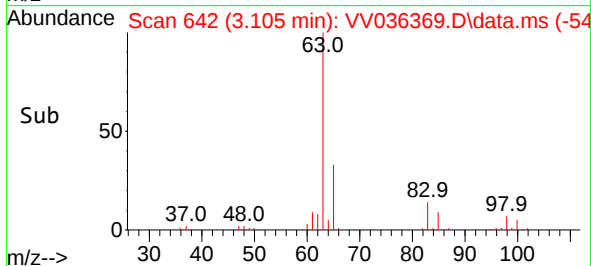
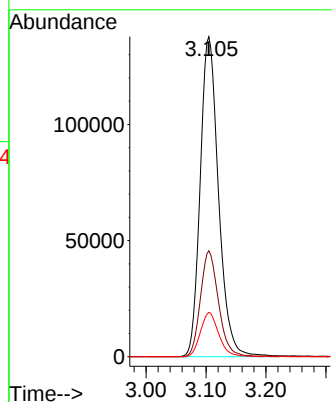
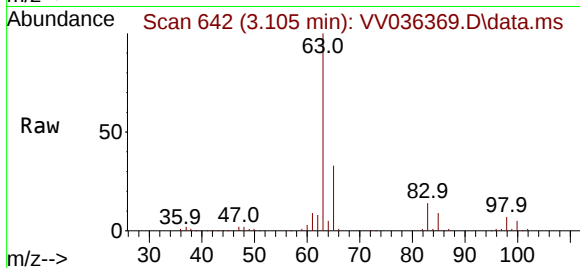
Tgt Ion: 63 Resp: 293353

Ion Ratio Lower Upper

63 100

65 33.1 22.1 41.1

83 13.8 9.7 17.9



#22

2-Butanone

Concen: 100.383 ug/L

RT: 3.908 min Scan# 892

Delta R.T. -0.006 min

Lab File: VV036369.D

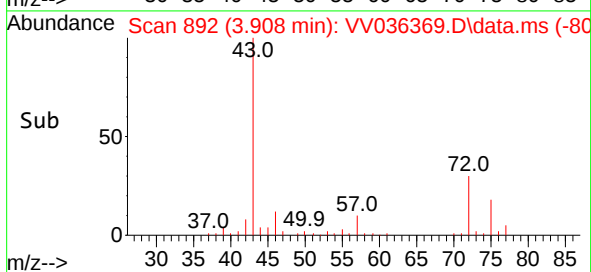
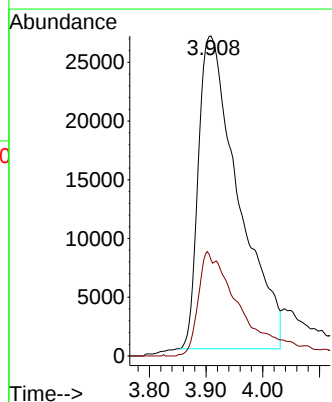
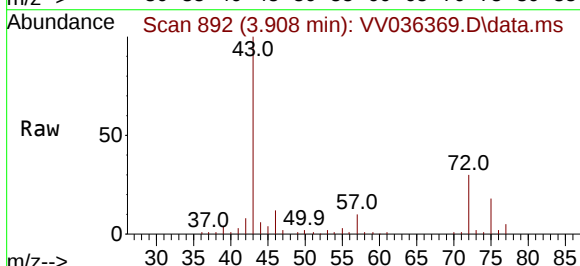
Acq: 01 Jul 2024 12:44

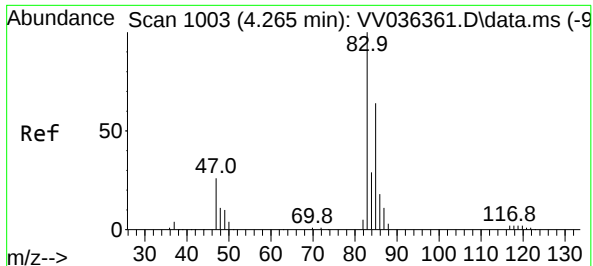
Tgt Ion: 43 Resp: 130625

Ion Ratio Lower Upper

43 100

72 11.5 12.9 38.7#





#25

Chloroform

Concen: 50.668 ug/L

RT: 4.269 min Scan# 1004

Delta R.T. 0.003 min

Lab File: VV036369.D

Acq: 01 Jul 2024 12:44

Instrument :

MSVOA_V

ClientSampleId :

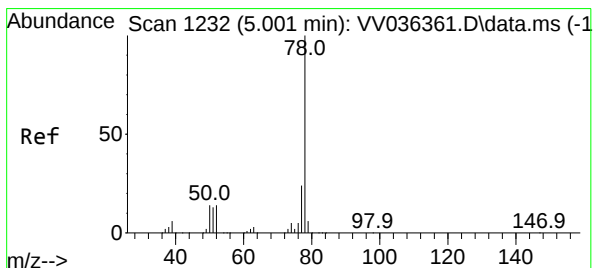
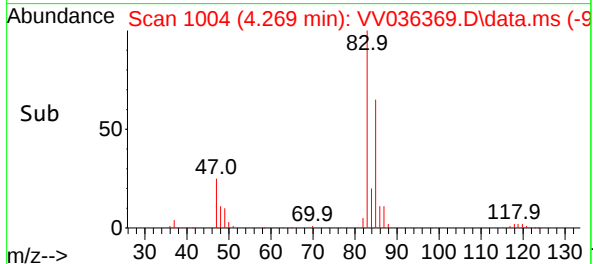
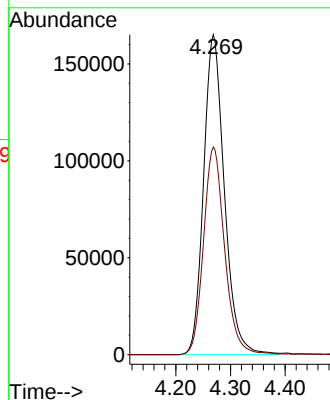
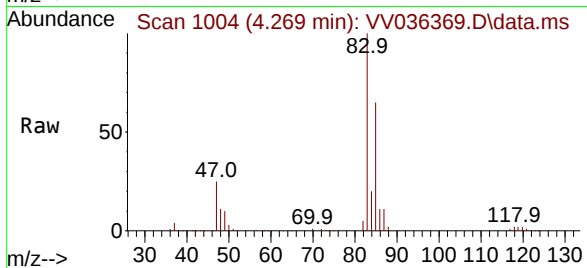
A4DK0DL

Tgt Ion: 83 Resp: 435494

Ion Ratio Lower Upper

83 100

85 64.9 45.0 83.6



#33

Benzene

Concen: 8.966 ug/L

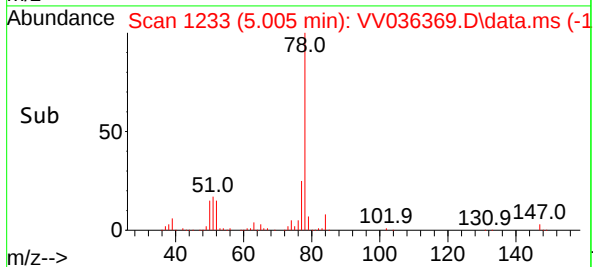
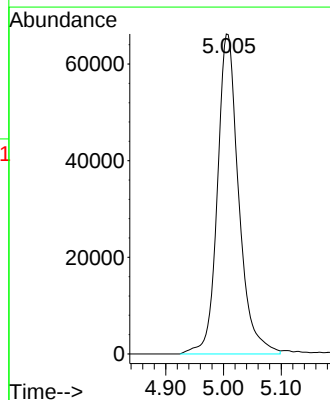
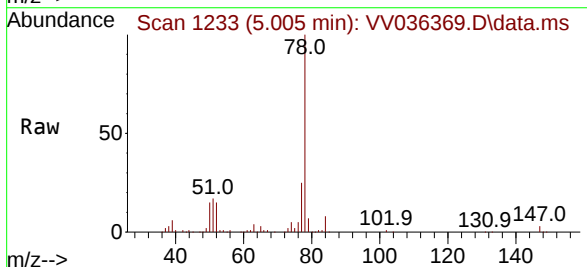
RT: 5.005 min Scan# 1233

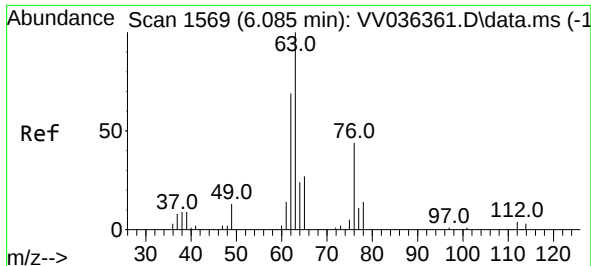
Delta R.T. 0.003 min

Lab File: VV036369.D

Acq: 01 Jul 2024 12:44

Tgt Ion: 78 Resp: 169946





#37

1,2-Dichloropropane

Concen: 22.122 ug/L

RT: 6.088 min Scan# 1569

Delta R.T. 0.003 min

Lab File: VV036369.D

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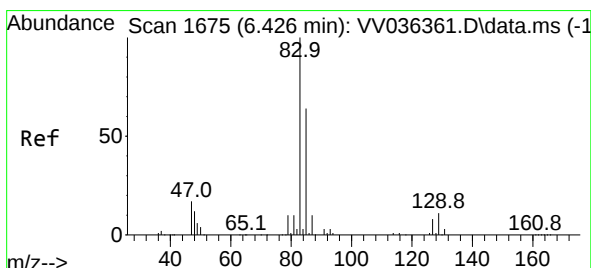
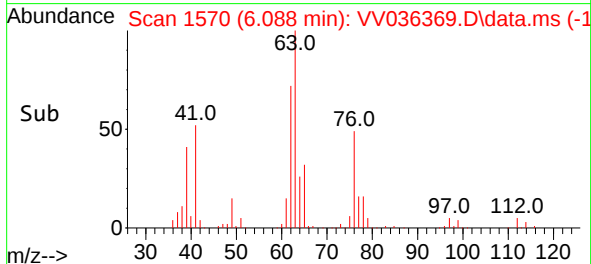
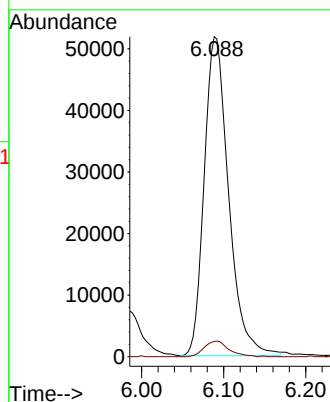
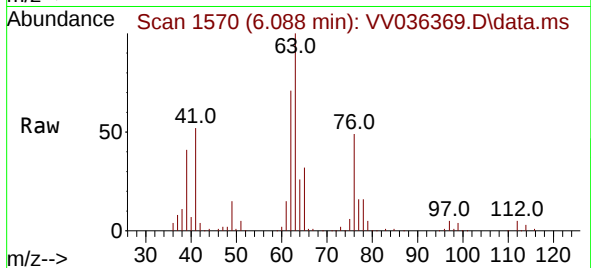
A4DK0DL

Tgt Ion: 63 Resp: 107091

Ion Ratio Lower Upper

63 100

112 4.9 3.4 5.2



#38

Bromodichloromethane

Concen: 11.095 ug/L

RT: 6.432 min Scan# 1677

Delta R.T. 0.007 min

Lab File: VV036369.D

Acq: 01 Jul 2024 12:44

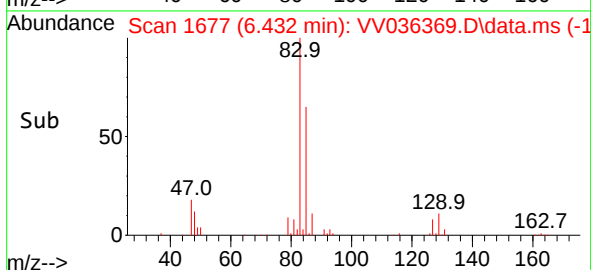
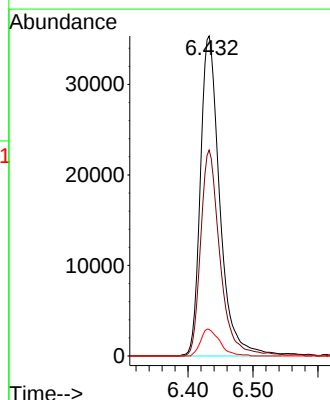
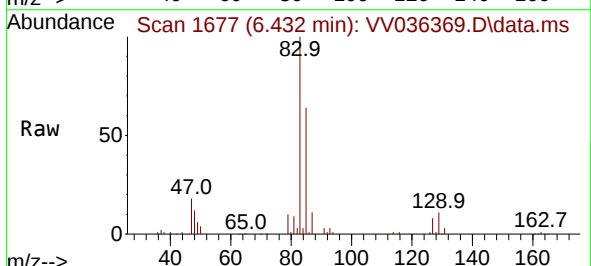
Tgt Ion: 83 Resp: 73462

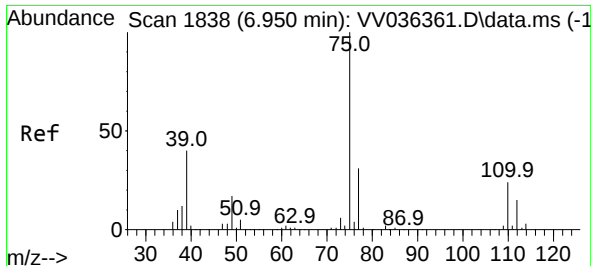
Ion Ratio Lower Upper

83 100

85 64.3 44.9 83.5

127 8.3 7.0 10.6





#39

cis-1,3-Dichloropropene

Concen: 34.215 ug/L

RT: 6.950 min Scan# 1838

Delta R.T. 0.000 min

Lab File: VV036369.D

Acq: 01 Jul 2024 12:44

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ClientSampleId :

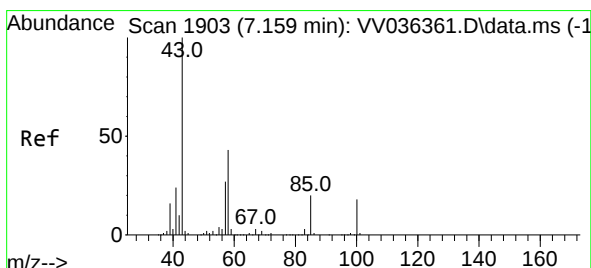
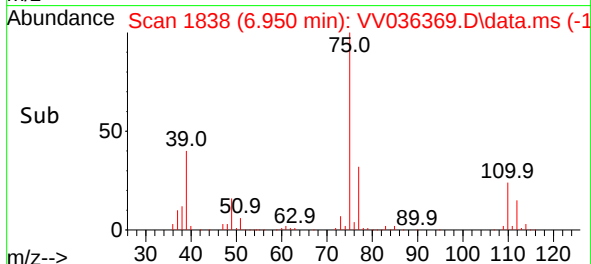
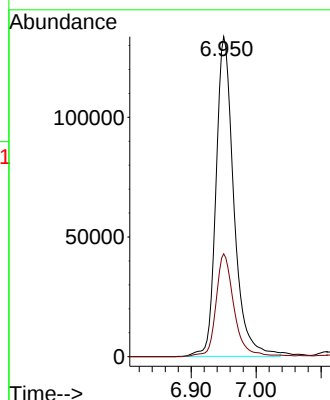
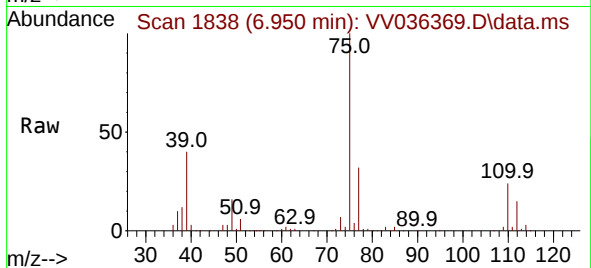
A4DK0DL

Tgt Ion: 75 Resp: 254701

Ion Ratio Lower Upper

75 100

77 32.2 22.3 41.5



#40

4-Methyl-2-pentanone

Concen: 79.528 ug/L

RT: 7.159 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VV036369.D

Acq: 01 Jul 2024 12:44

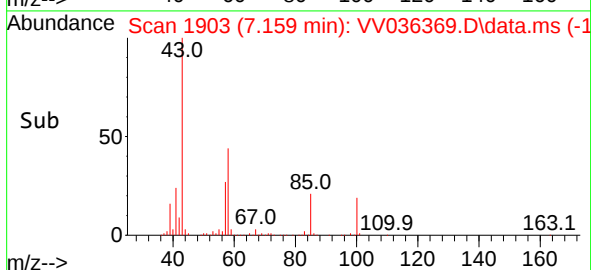
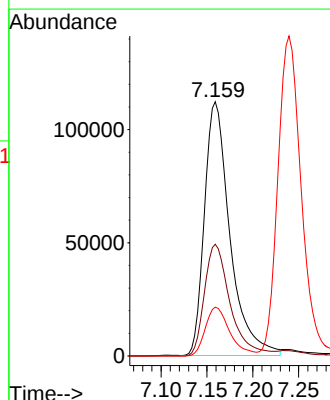
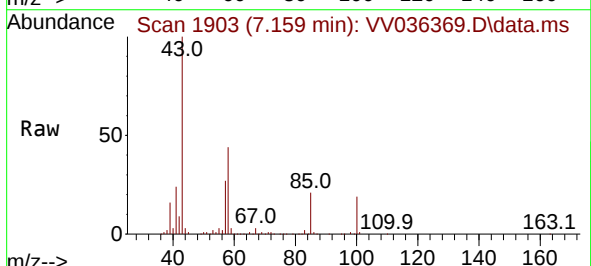
Tgt Ion: 43 Resp: 217127

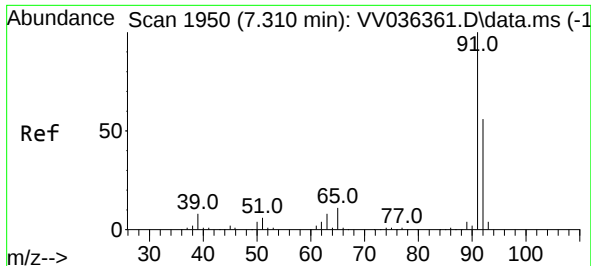
Ion Ratio Lower Upper

43 100

58 44.4 34.8 52.2

100 18.5 14.6 21.8





#42

Toluene

Concen: 21.734 ug/L

RT: 7.310 min Scan# 1950

Delta R.T. 0.000 min

Lab File: VV036369.D

Acq: 01 Jul 2024 12:44

Instrument :

MSVOA_V

ClientSampleId :

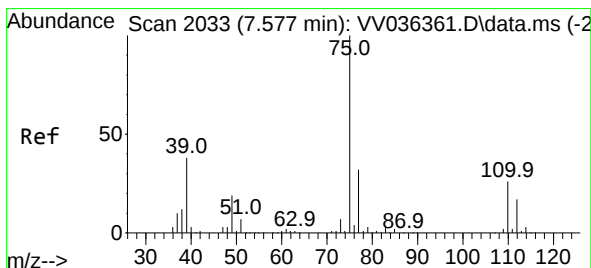
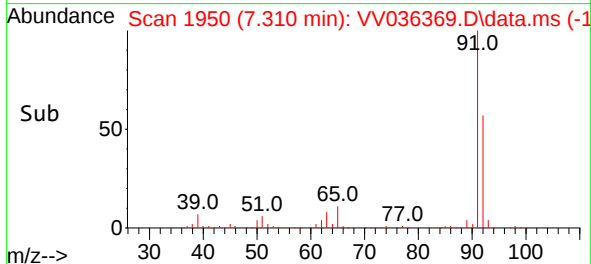
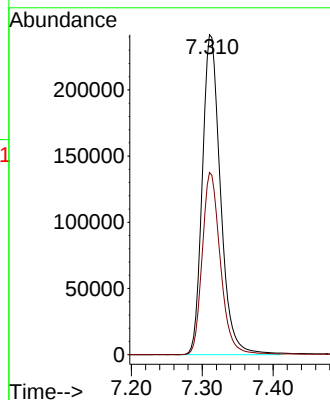
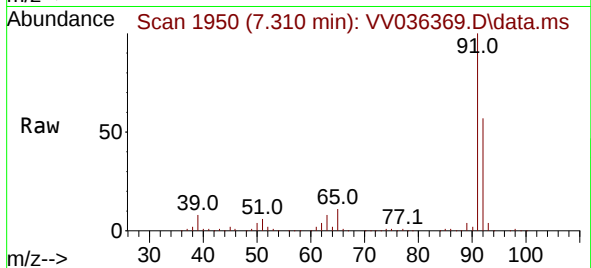
A4DK0DL

Tgt Ion: 91 Resp: 430765

Ion Ratio Lower Upper

91 100

92 57.0 39.8 73.8



#44

trans-1,3-Dichloropropene

Concen: 46.856 ug/L

RT: 7.577 min Scan# 2033

Delta R.T. 0.000 min

Lab File: VV036369.D

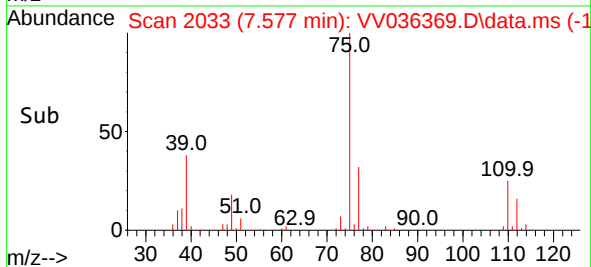
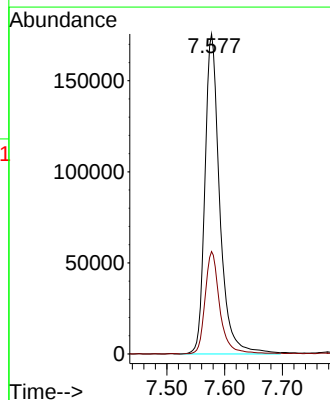
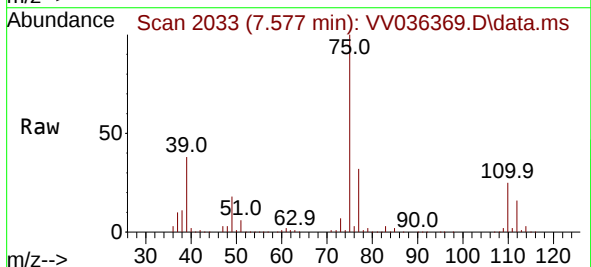
Acq: 01 Jul 2024 12:44

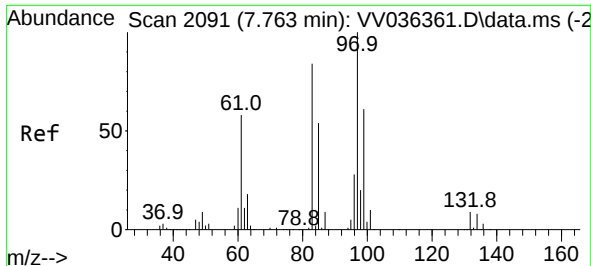
Tgt Ion: 75 Resp: 313722

Ion Ratio Lower Upper

75 100

77 32.0 22.5 41.9

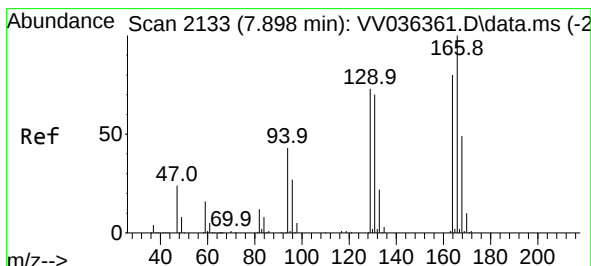
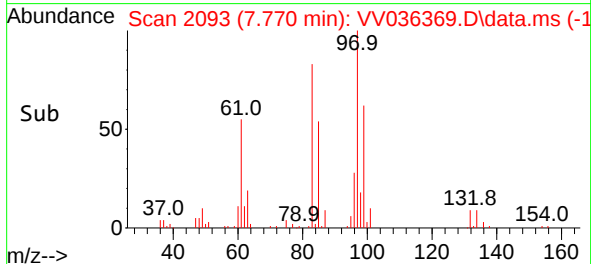
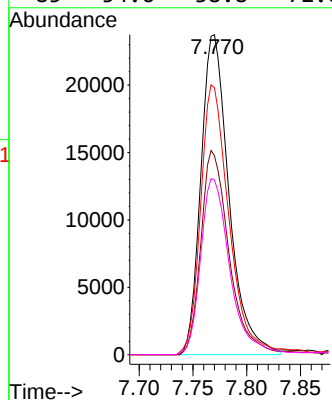
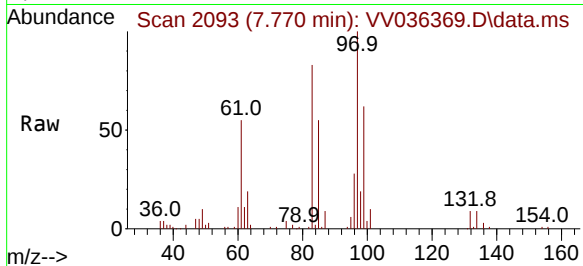




#45
1,1,2-Trichloroethane
Concen: 10.127 ug/L
RT: 7.770 min Scan# 2091
Delta R.T. 0.007 min
Lab File: VV036369.D
Acq: 01 Jul 2024 12:44

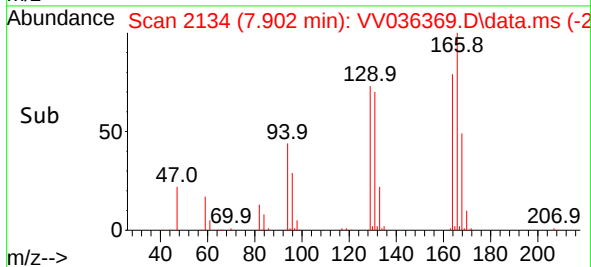
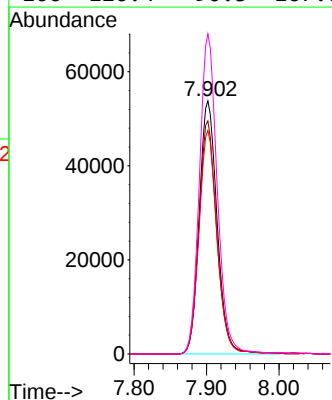
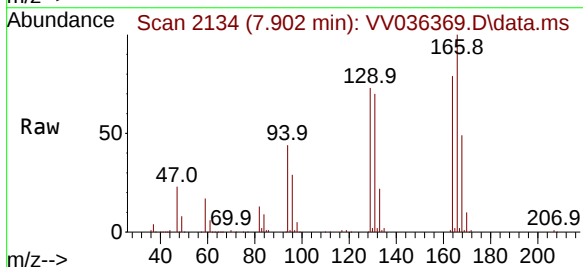
Instrument :
MSVOA_V
ClientSampleId :
A4DK0DL

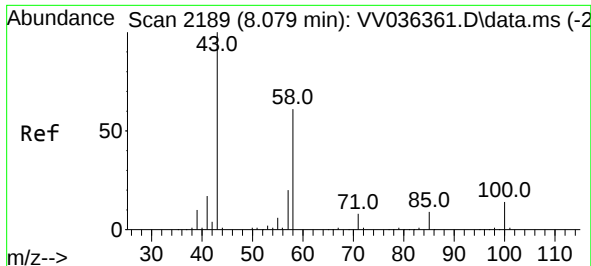
Tgt Ion: 97	Resp: 43333
Ion Ratio	Lower Upper
97 100	
99 62.2	43.8 81.3
83 83.5	60.6 112.6
85 54.6	38.8 72.0



#46
Tetrachloroethene
Concen: 21.266 ug/L
RT: 7.902 min Scan# 2134
Delta R.T. 0.003 min
Lab File: VV036369.D
Acq: 01 Jul 2024 12:44

Tgt	Ion:164	Resp:	92448
Ion	Ratio	Lower	Upper
164	100		
129	92.1	65.9	122.5
131	88.3	63.3	117.7
166	126.4	90.3	167.7



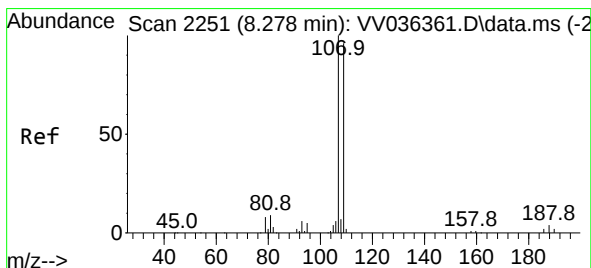
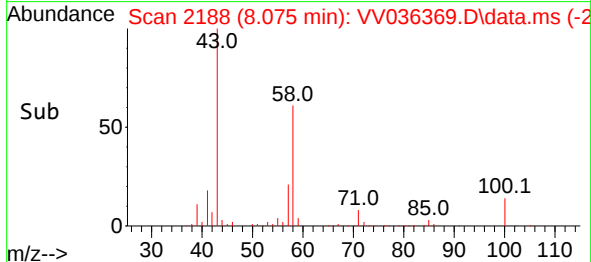
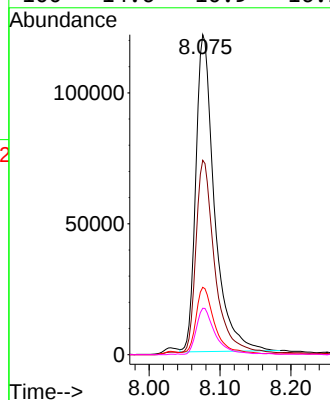
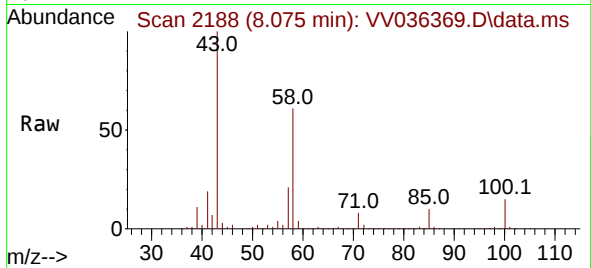


#48
2-Hexanone
Concen: 103.239 ug/L
RT: 8.075 min Scan# 2189
Delta R.T. -0.003 min
Lab File: VV036369.D
Acq: 01 Jul 2024 12:44

Instrument :
MSVOA_V
ClientSampleId :
A4DK0DL

Tgt Ion: 43 Resp: 221708

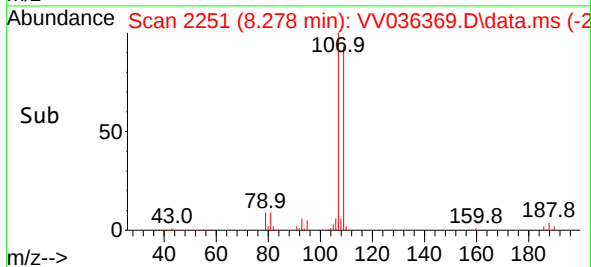
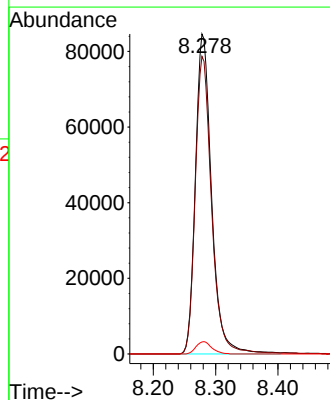
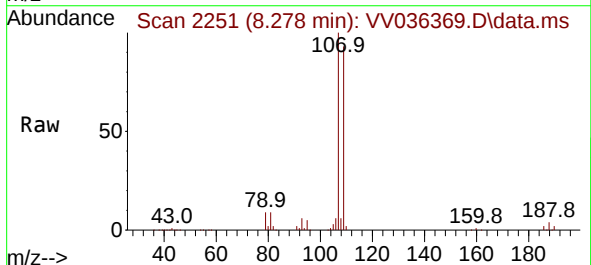
Ion	Ratio	Lower	Upper
43	100		
58	61.7	48.5	72.7
57	21.3	15.8	23.6
100	14.6	10.9	16.3

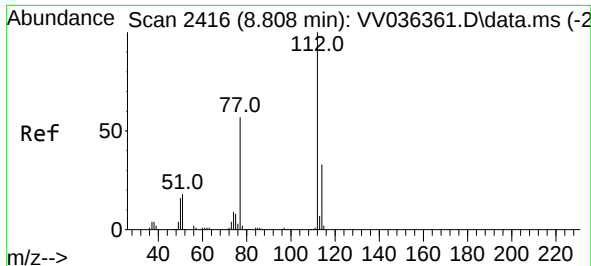


#50
1,2-Dibromoethane
Concen: 36.148 ug/L
RT: 8.278 min Scan# 2251
Delta R.T. 0.000 min
Lab File: VV036369.D
Acq: 01 Jul 2024 12:44

Tgt Ion: 107 Resp: 152377

Ion	Ratio	Lower	Upper
107	100		
109	93.0	64.7	120.1
188	3.8	3.0	4.6

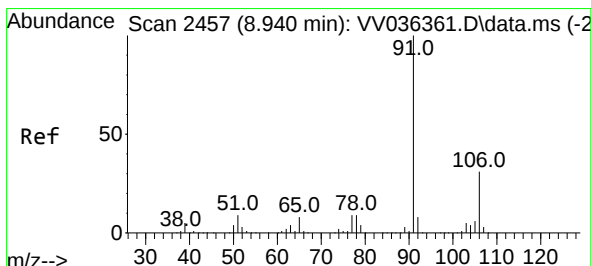
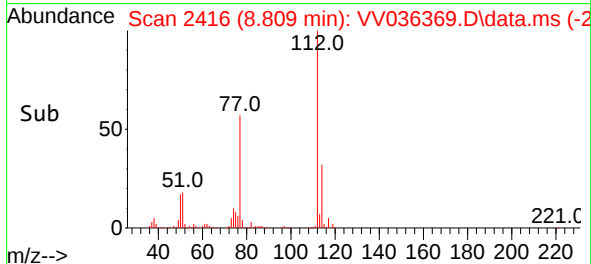
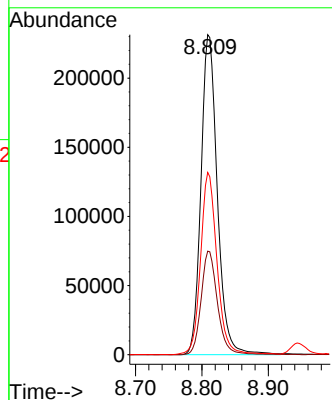
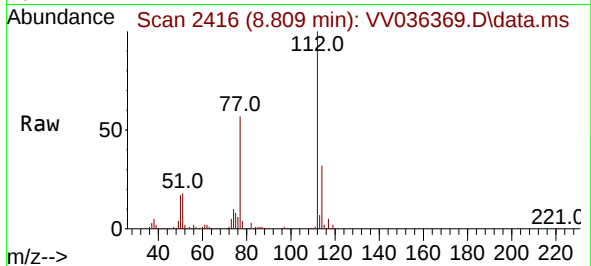




#51
Chlorobenzene
Concen: 29.247 ug/L
RT: 8.809 min Scan# 2416
Delta R.T. 0.000 min
Lab File: VV036369.D
Acq: 01 Jul 2024 12:44

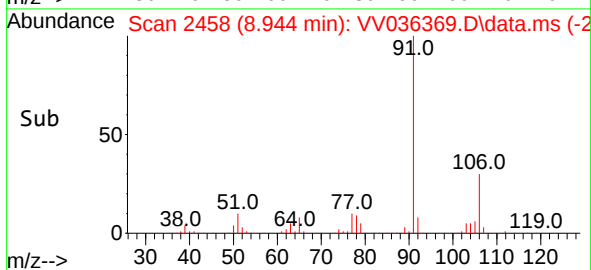
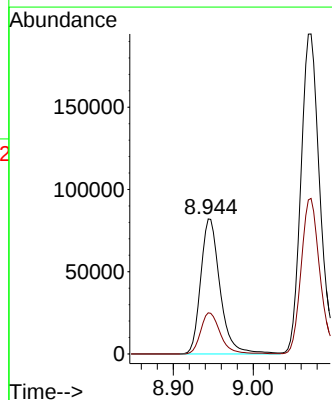
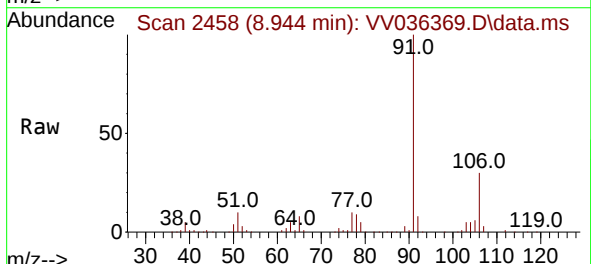
Instrument :
MSVOA_V
ClientSampleId :
A4DK0DL

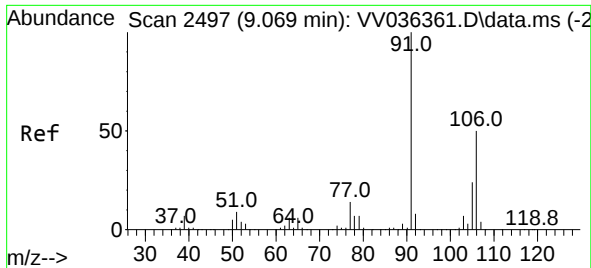
Tgt Ion:112 Resp: 396244
Ion Ratio Lower Upper
112 100
114 32.4 22.8 42.4
77 56.9 46.2 69.2



#52
Ethylbenzene
Concen: 6.507 ug/L
RT: 8.944 min Scan# 2458
Delta R.T. 0.003 min
Lab File: VV036369.D
Acq: 01 Jul 2024 12:44

Tgt Ion: 91 Resp: 139179
Ion Ratio Lower Upper
91 100
106 30.5 21.8 40.4

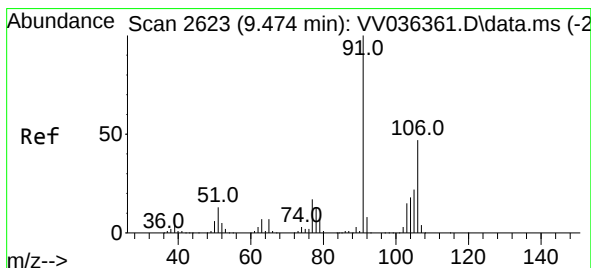
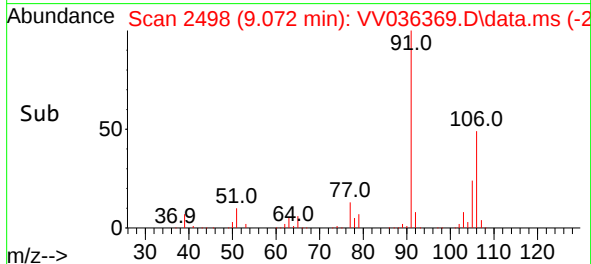
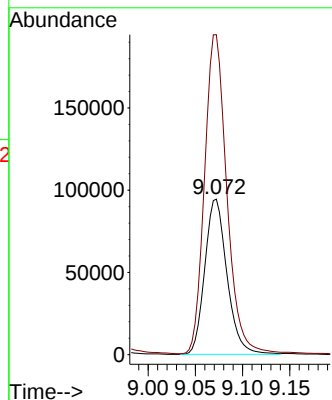
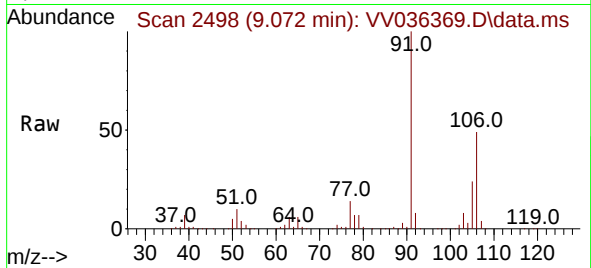




#53
m,p-Xylene
Concen: 19.393 ug/L
RT: 9.072 min Scan# 2498
Delta R.T. 0.003 min
Lab File: VV036369.D
Acq: 01 Jul 2024 12:44

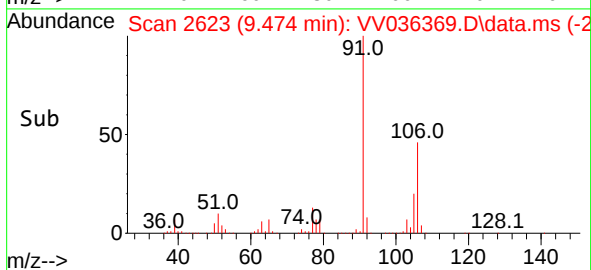
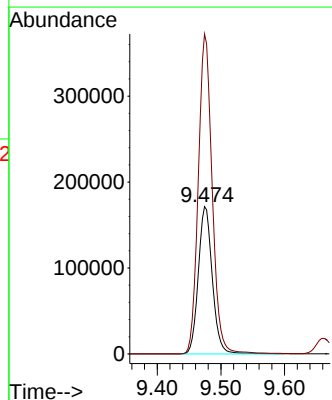
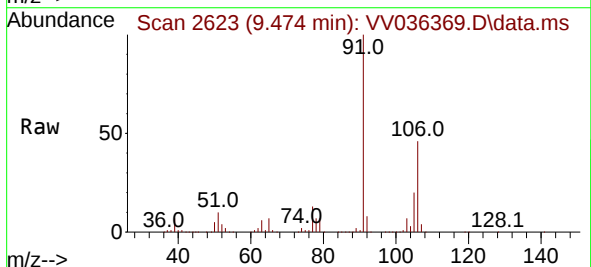
Instrument :
MSVOA_V
ClientSampleId :
A4DK0DL

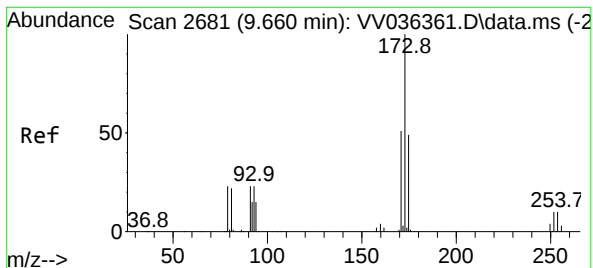
Tgt Ion:106 Resp: 154589
Ion Ratio Lower Upper
106 100
91 205.7 142.2 264.0



#54
o-Xylene
Concen: 34.963 ug/L
RT: 9.474 min Scan# 2623
Delta R.T. 0.000 min
Lab File: VV036369.D
Acq: 01 Jul 2024 12:44

Tgt Ion:106 Resp: 262094
Ion Ratio Lower Upper
106 100
91 217.3 152.7 283.7





#59

Bromoform

Concen: 51.442 ug/L

RT: 9.661 min Scan# 2

Delta R.T. 0.000 min

Lab File: VV036369.D

Acq: 01 Jul 2024 12:44

Instrument :

MSVOA_V

ClientSampleId :

A4DK0DL

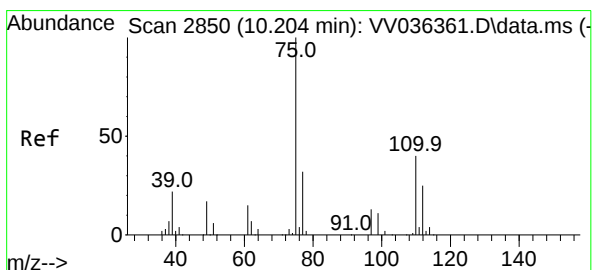
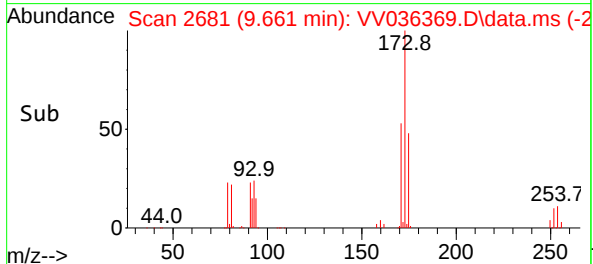
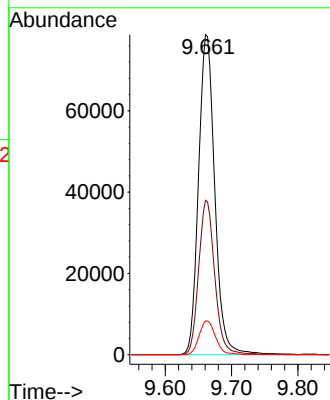
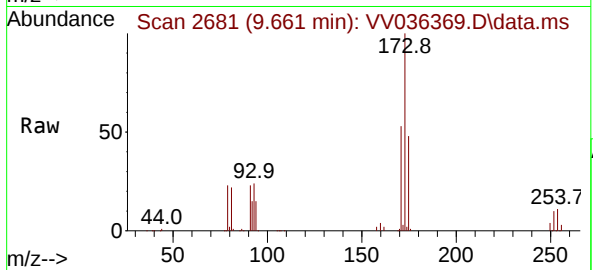
Tgt Ion:173 Resp: 134163

Ion Ratio Lower Upper

173 100

175 47.6 38.9 58.3

254 10.7 7.2 10.8



#61

1,2,3-Trichloropropane

Concen: 35.422 ug/L

RT: 10.207 min Scan# 2851

Delta R.T. 0.003 min

Lab File: VV036369.D

Acq: 01 Jul 2024 12:44

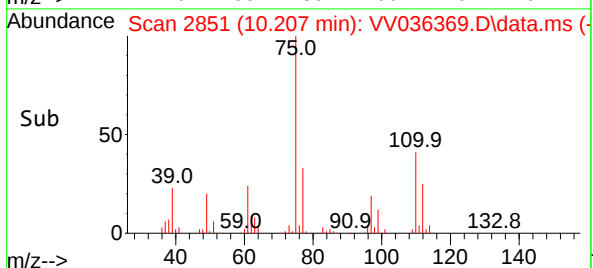
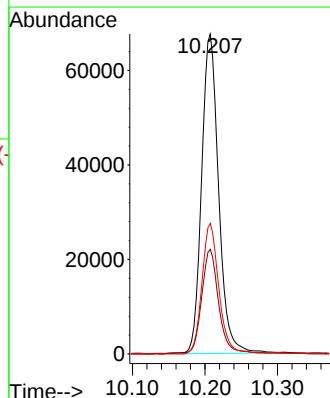
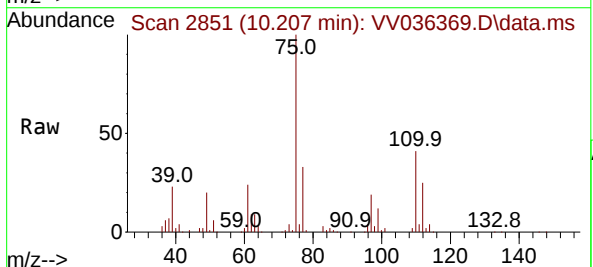
Tgt Ion: 75 Resp: 110136

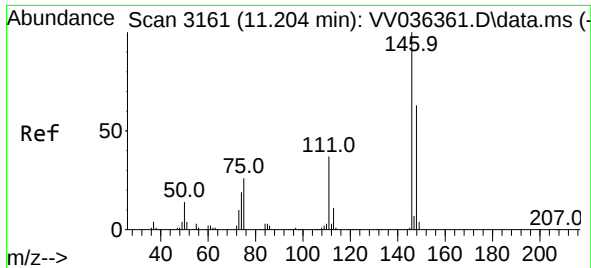
Ion Ratio Lower Upper

75 100

77 31.8 25.2 37.8

110 40.6 31.7 47.5

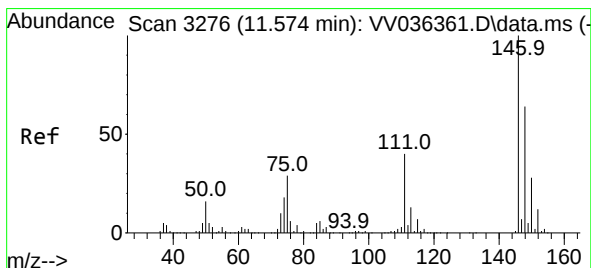
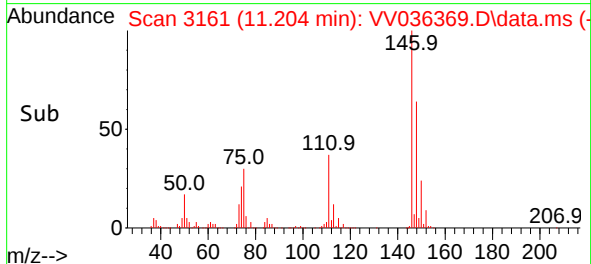
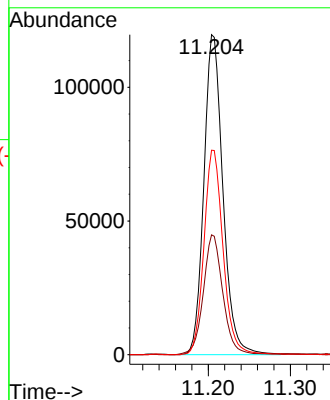
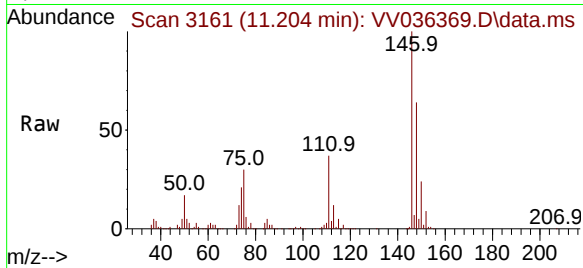




#65
1,4-Dichlorobenzene
Concen: 20.770 ug/L
RT: 11.204 min Scan# 3161
Delta R.T. 0.000 min
Lab File: VV036369.D
Acq: 01 Jul 2024 12:44

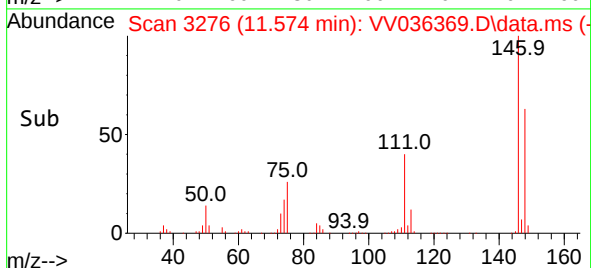
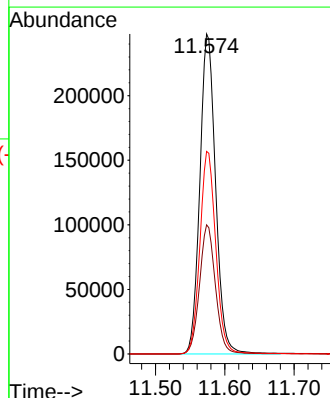
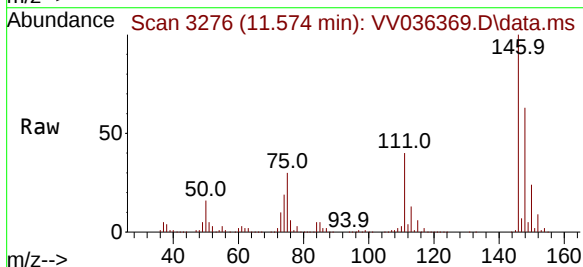
Instrument :
MSVOA_V
ClientSampleId :
A4DK0DL

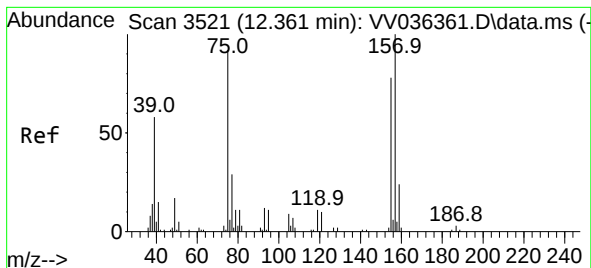
Tgt Ion:146 Resp: 193215
Ion Ratio Lower Upper
146 100
111 37.5 27.5 51.1
148 63.9 44.0 81.8



#67
1,2-Dichlorobenzene
Concen: 47.366 ug/L
RT: 11.574 min Scan# 3276
Delta R.T. 0.000 min
Lab File: VV036369.D
Acq: 01 Jul 2024 12:44

Tgt Ion:146 Resp: 392423
Ion Ratio Lower Upper
146 100
111 40.3 33.3 49.9
148 63.3 51.1 76.7





#68

1,2-Dibromo-3-chloropropane

Concen: 64.590 ug/L

RT: 12.361 min Scan# 3521

Delta R.T. 0.000 min

Lab File: VV036369.D

Acq: 01 Jul 2024 12:44

Instrument :

MSVOA_V

ClientSampleId :

A4DK0DL

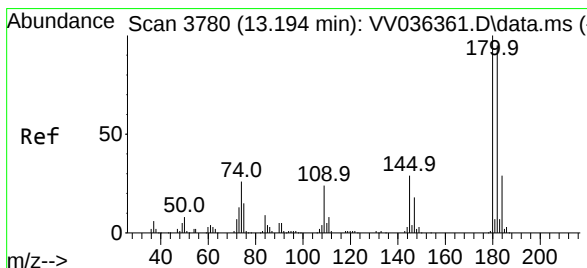
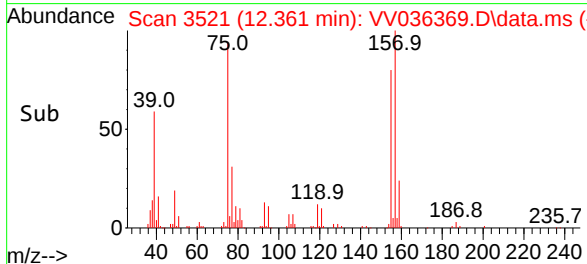
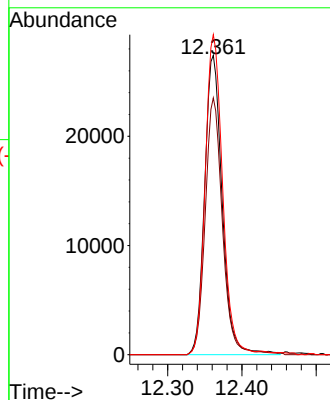
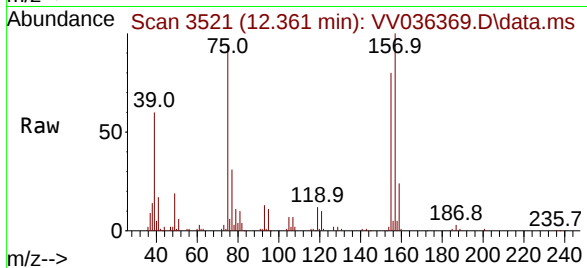
Tgt Ion: 75 Resp: 45055

Ion Ratio Lower Upper

75 100

155 85.8 68.3 102.5

157 106.9 95.7 143.5



#70

1,2,4-trichlorobenzene

Concen: 14.888 ug/L

RT: 13.194 min Scan# 3780

Delta R.T. 0.000 min

Lab File: VV036369.D

Acq: 01 Jul 2024 12:44

Tgt Ion:180 Resp: 77580

Ion Ratio Lower Upper

180 100

182 94.0 76.1 114.1

145 28.5 23.8 35.8

