

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW040224\
 Data File : VW034934.D
 Acq On : 02 Apr 2024 16:22
 Operator : SY/MD
 Sample : P1925-02
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 03 05:21:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR040224WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Apr 03 05:08:19 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.539	114	169017	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	164403	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	78570	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	72763	5.224	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	104.400%
7) Chloroethane-d5	1.536	69	59891	5.215	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	104.400%
11) 1,1-Dichloroethene-d2	2.057	65	35164	5.558	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	111.200%
20) 2-Butanone-d5	3.876	46	163668	75.096	ug/L	0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	150.200%#
24) Chloroform-d	4.246	84	108232	4.802	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.000%
26) 1,2-Dichloroethane-d4	4.950	65	52850	5.192	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.800%
32) Benzene-d6	4.953	84	218524	5.081	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.600%
36) 1,2-Dichloropropane-d6	6.011	67	66119	5.238	ug/L	0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.800%
41) Toluene-d8	7.252	98	180795	4.628	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.600%
43) trans-1,3-Dichloroprop...	7.568	79	20422	4.555	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.000%
46) 2-Hexanone-d5	8.040	63	77439	50.321	ug/L	0.01
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.640%
56) 1,1,2,2-Tetrachloroeth...	10.156	84	44209	5.020	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.400%
66) 1,2-Dichlorobenzene-d4	11.561	152	62277	5.032	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.600%

Target Compounds				Qvalue		
5) Vinyl chloride	1.285	62	3046	0.181	ug/L #	45
13) Acetone	2.217	43	19071	11.995	ug/L	75
15) Methyl Acetate	2.217	43	19071	4.346	ug/L #	53
16) Methylene chloride	2.446	84	2992	0.213	ug/L	98
18) trans-1,2-Dichloroethene	2.690	96	2303	0.181	ug/L	83
22) cis-1,2-Dichloroethene	3.806	96	20708	1.555	ug/L	92
33) Benzene	5.008	78	26582	0.528	ug/L	100
34) Trichloroethene	5.863	95	4071	0.310	ug/L	93
35) Methylcyclohexane	6.011	83	16122	0.807	ug/L #	19
37) 1,2-Dichloropropane	6.008	63	7531	0.577	ug/L #	87
42) Toluene	7.349	91	4774	0.090	ug/L	95
48) 2-Hexanone	8.108	43	11902	2.678	ug/L #	83
51) Chlorobenzene	8.815	112	1733739	50.722	ug/L	98
61) 1,2,3-Trichloropropane	11.117	75	49104	6.695	ug/L #	49
64) 1,3-Dichlorobenzene	11.117	146	158173	6.311	ug/L	99
65) 1,4-Dichlorobenzene	11.207	146	250806	9.992	ug/L	99
67) 1,2-Dichlorobenzene	11.580	146	24725	1.068	ug/L	94
68) 1,2-Dibromo-3-chloropr...	12.580	75	969	0.643	ug/L #	5
69) 1,3,5-Trichlorobenzene	12.583	180	4288	0.228	ug/L	96

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Apr 03 05:08:19 2024
Response via : Initial Calibration

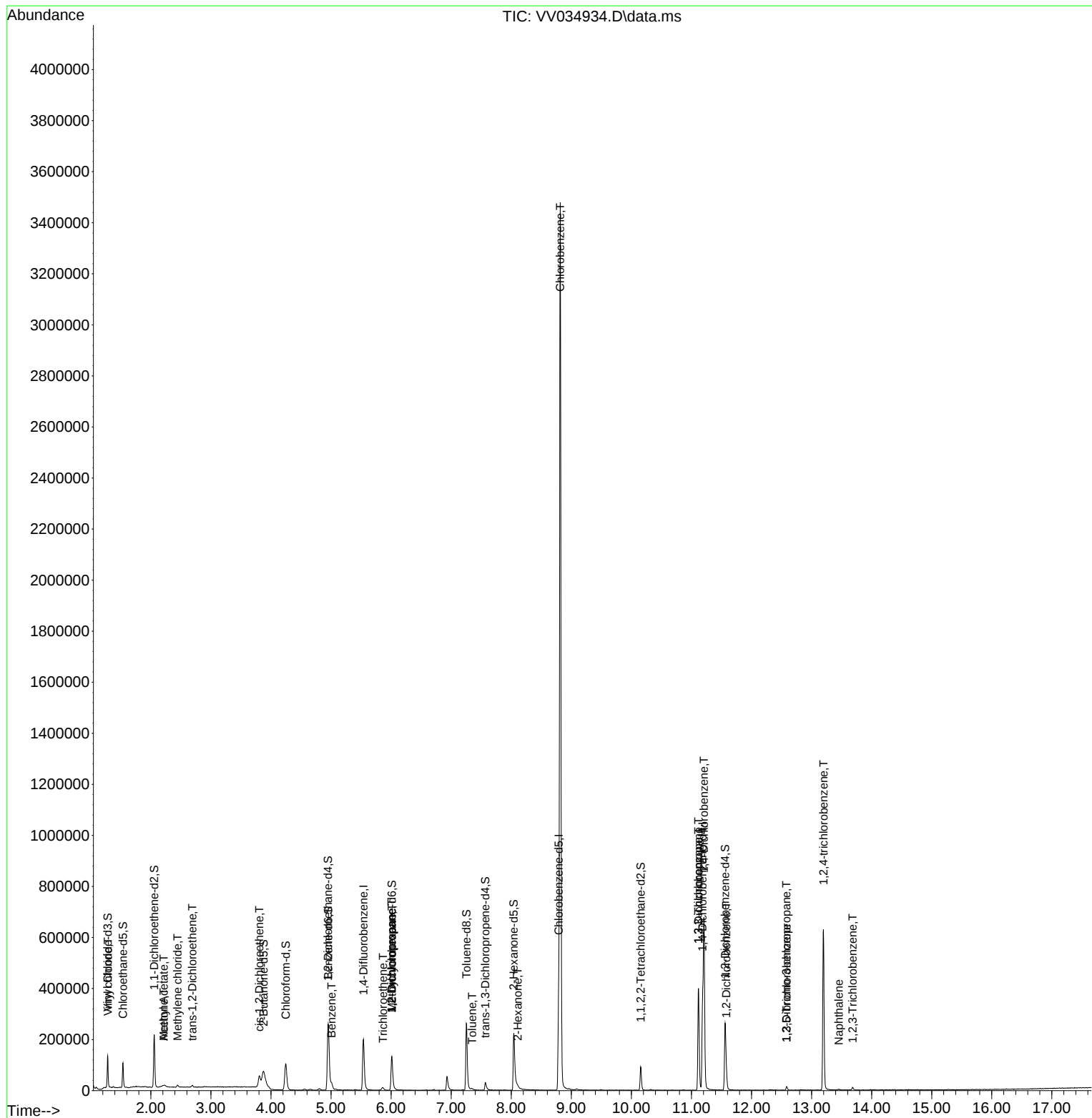
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 1,2,4-trichlorobenzene	13.198	180	182629	12.494	ug/L	98
71) Naphthalene	13.455	128	2414	0.118	ug/L #	92
72) 1,2,3-Trichlorobenzene	13.683	180	3192	0.248	ug/L #	90

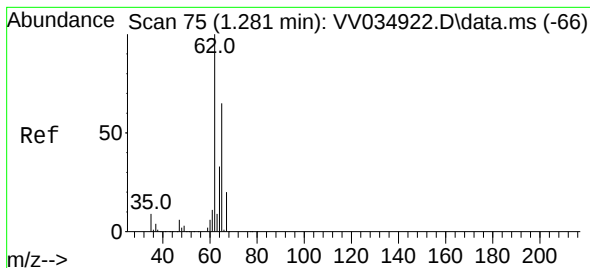
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.181 ug/L

RT: 1.285 min Scan# 7

Delta R.T. 0.003 min

Lab File: VV034934.D

Acq: 02 Apr 2024 16:22

Instrument :

MSVOA_V

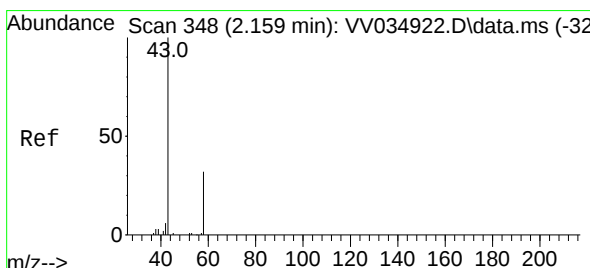
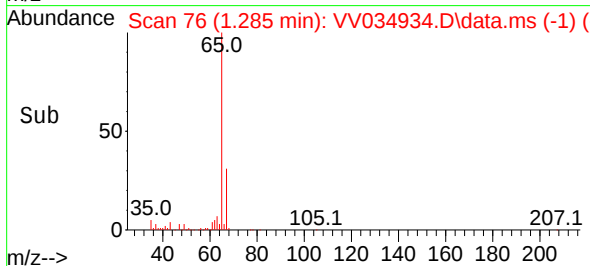
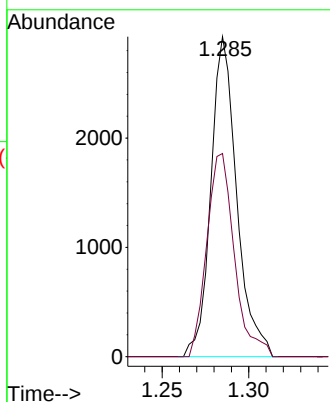
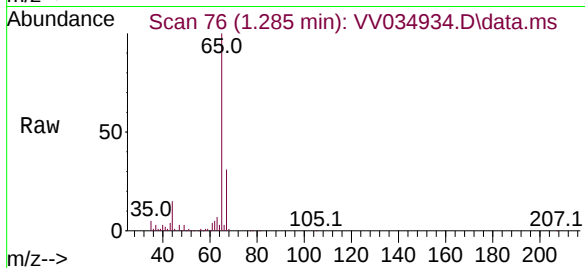
ClientSampleId :

Tgt Ion: 62 Resp: 3046

Ion Ratio Lower Upper

62 100

64 63.5 22.9 42.5#



#13

Acetone

Concen: 11.995 ug/L

RT: 2.217 min Scan# 366

Delta R.T. 0.058 min

Lab File: VV034934.D

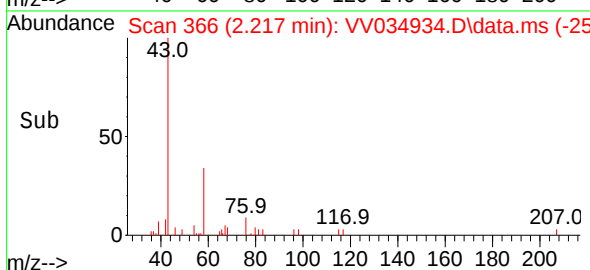
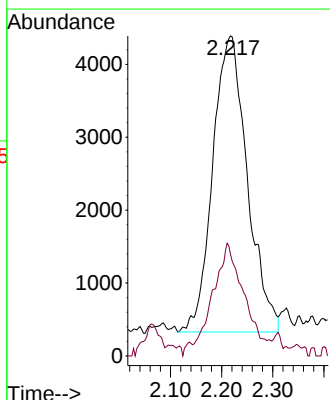
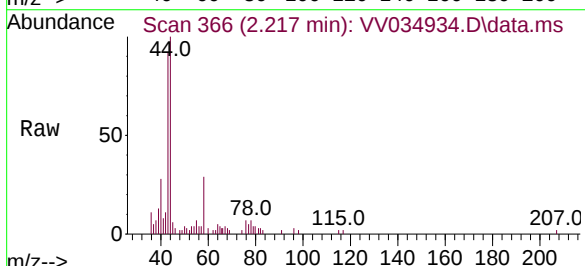
Acq: 02 Apr 2024 16:22

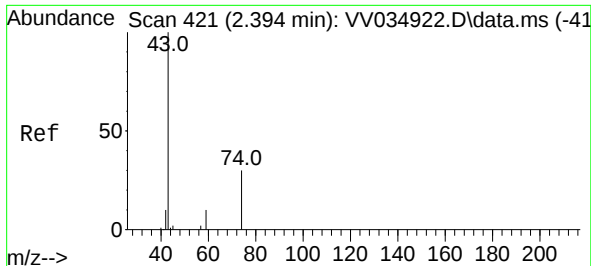
Tgt Ion: 43 Resp: 19071

Ion Ratio Lower Upper

43 100

58 31.9 0.0 40.8





#15

Methyl Acetate

Concen: 4.346 ug/L

RT: 2.217 min Scan# 3

Delta R.T. -0.177 min

Lab File: VV034934.D

Acq: 02 Apr 2024 16:22

Instrument :

MSVOA_V

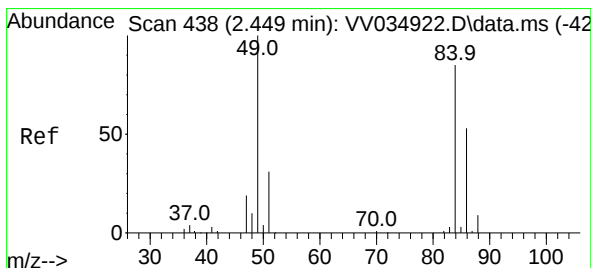
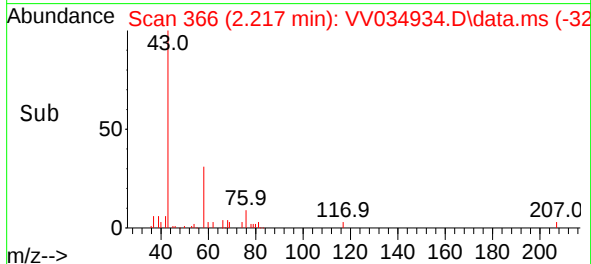
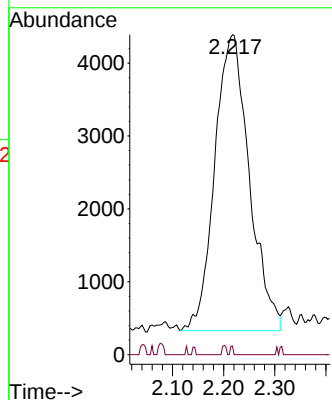
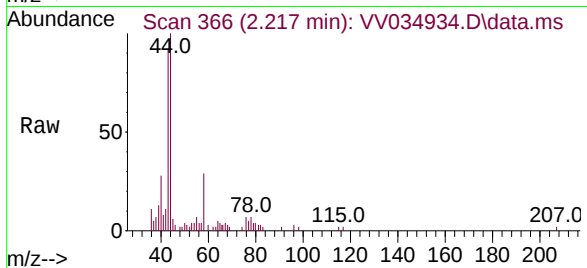
ClientSampleId :

Tgt Ion: 43 Resp: 19071

Ion Ratio Lower Upper

43 100

74 0.2 18.5 27.7#



#16

Methylene chloride

Concen: 0.213 ug/L

RT: 2.446 min Scan# 437

Delta R.T. -0.003 min

Lab File: VV034934.D

Acq: 02 Apr 2024 16:22

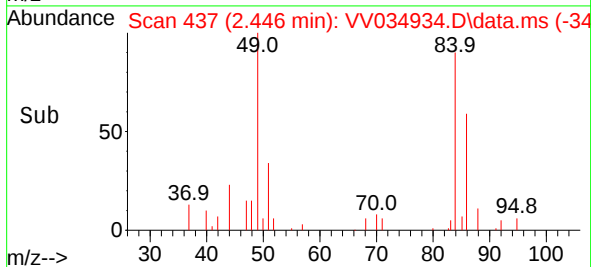
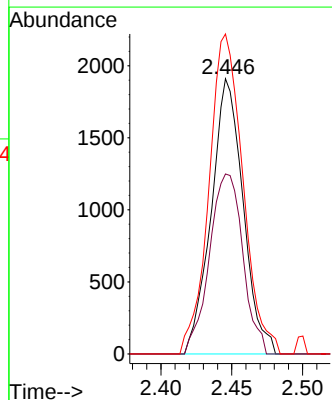
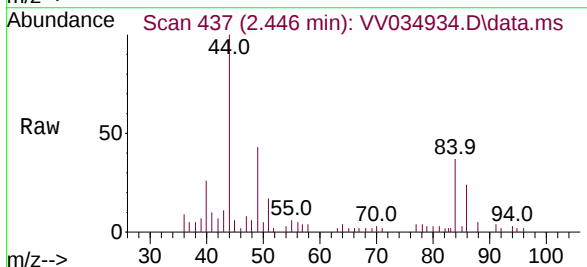
Tgt Ion: 84 Resp: 2992

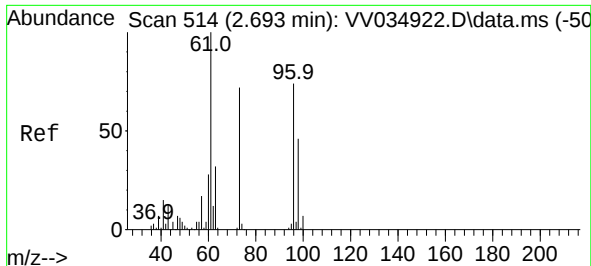
Ion Ratio Lower Upper

84 100

86 65.4 43.5 80.9

49 116.3 82.5 153.3





#18

trans-1,2-Dichloroethene

Concen: 0.181 ug/L

RT: 2.690 min Scan# 514

Delta R.T. -0.003 min

Lab File: VV034934.D

Acq: 02 Apr 2024 16:22

Instrument :

MSVOA_V

ClientSampleId :

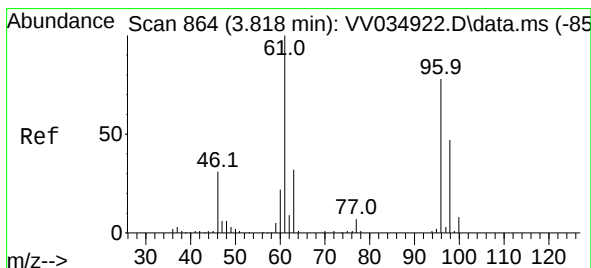
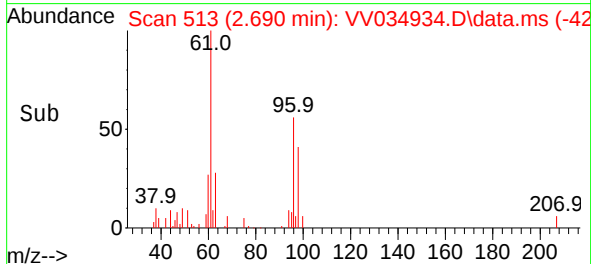
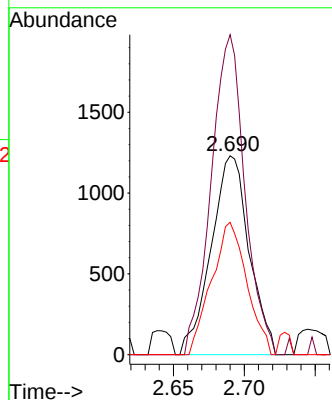
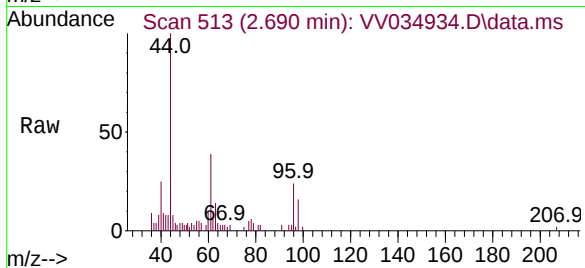
Tgt Ion: 96 Resp: 2303

Ion Ratio Lower Upper

96 100

61 160.8 94.5 175.5

98 66.5 43.5 80.9



#22

cis-1,2-Dichloroethene

Concen: 1.555 ug/L

RT: 3.806 min Scan# 860

Delta R.T. -0.013 min

Lab File: VV034934.D

Acq: 02 Apr 2024 16:22

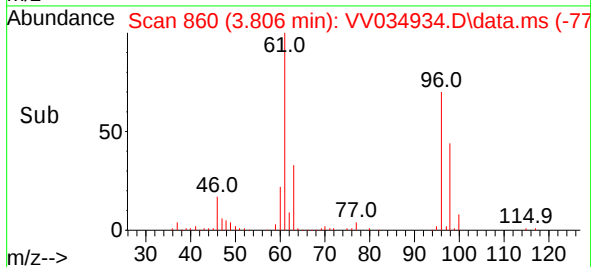
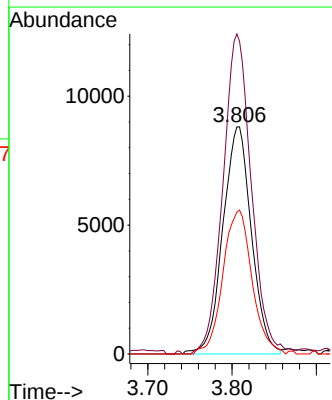
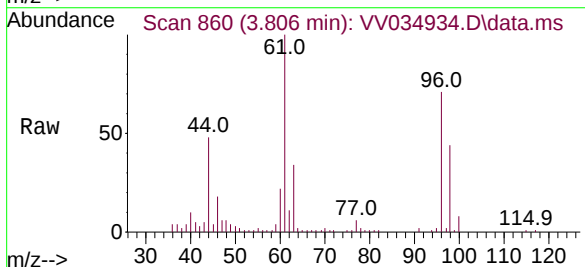
Tgt Ion: 96 Resp: 20708

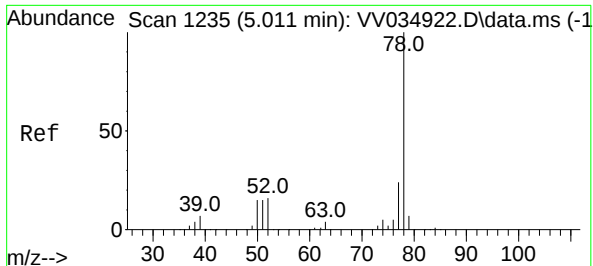
Ion Ratio Lower Upper

96 100

61 140.9 90.3 167.7

98 62.4 42.7 79.3

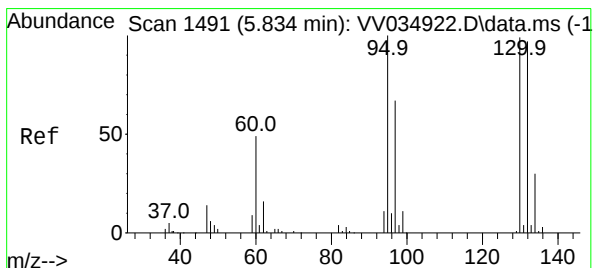
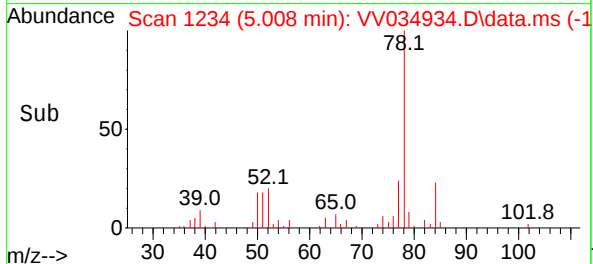
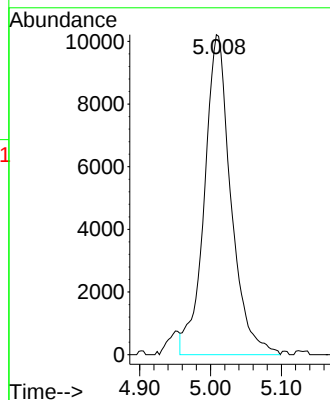
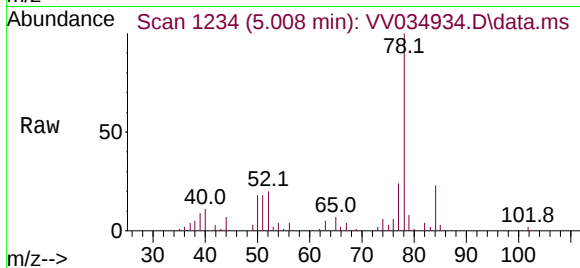




#33
Benzene
Concen: 0.528 ug/L
RT: 5.008 min Scan# 1500
Delta R.T. -0.003 min
Lab File: VV034934.D
Acq: 02 Apr 2024 16:22

Instrument :
MSVOA_V
ClientSampleId :

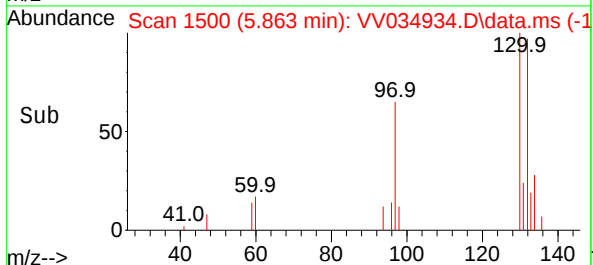
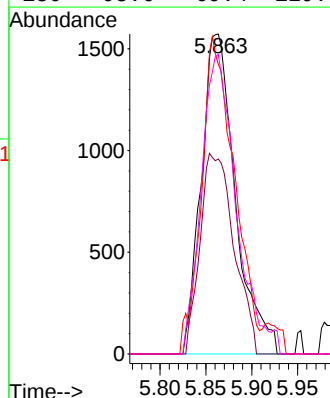
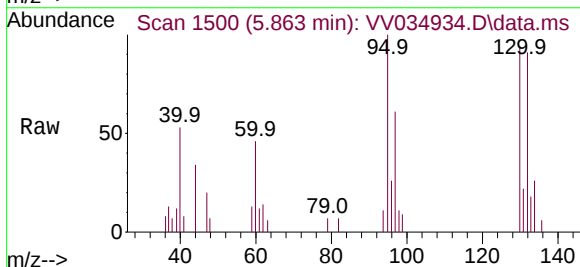
Tgt Ion: 78 Resp: 26582

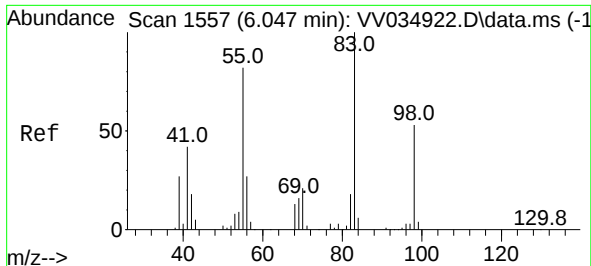


#34
Trichloroethene
Concen: 0.310 ug/L
RT: 5.863 min Scan# 1500
Delta R.T. 0.029 min
Lab File: VV034934.D
Acq: 02 Apr 2024 16:22

Tgt Ion: 95 Resp: 4071

Ion	Ratio	Lower	Upper
95	100		
97	60.9	46.8	86.8
132	90.5	68.0	126.4
130	93.6	69.4	129.0





#35

Methylcyclohexane

Concen: 0.807 ug/L

RT: 6.011 min Scan# 1546

Delta R.T. -0.035 min

Lab File: VV034934.D

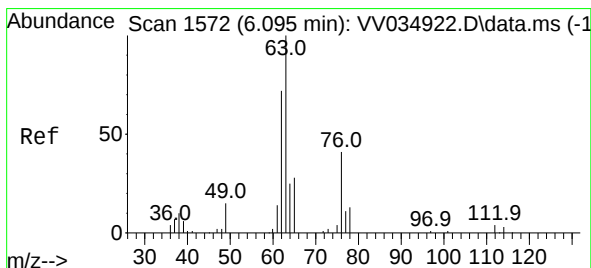
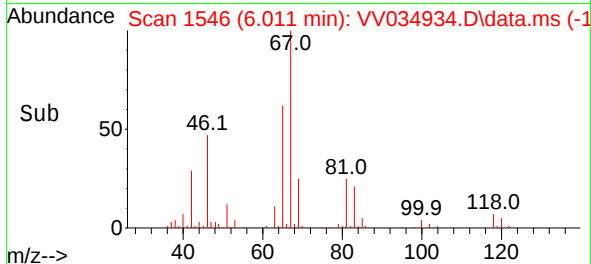
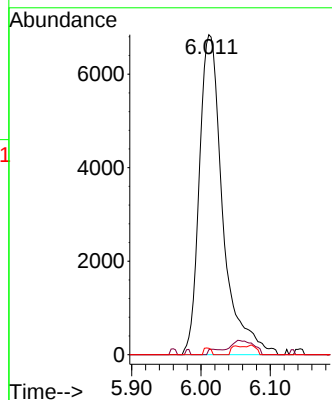
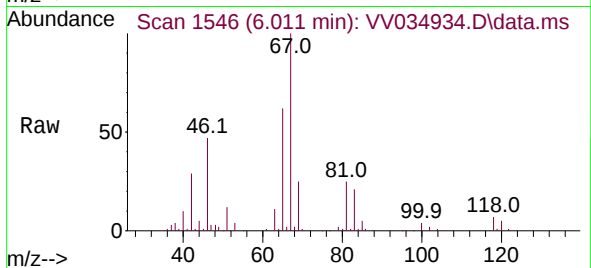
Acq: 02 Apr 2024 16:22

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 83	Resp: 16122
Ion Ratio	Lower Upper
83 100	
55 0.9	60.6 91.0#
98 0.6	37.8 56.6#



#37

1,2-Dichloropropane

Concen: 0.577 ug/L

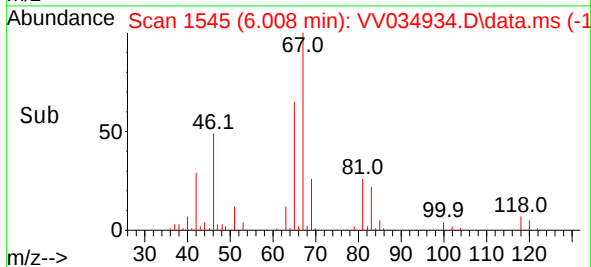
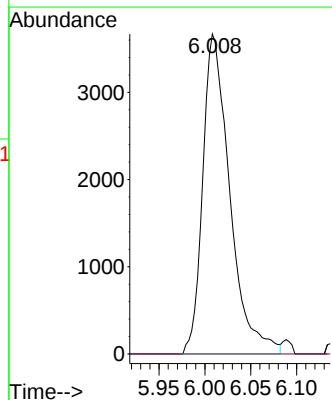
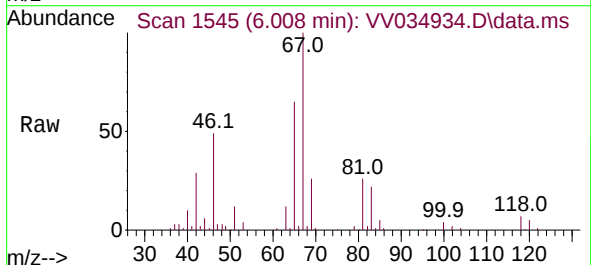
RT: 6.008 min Scan# 1545

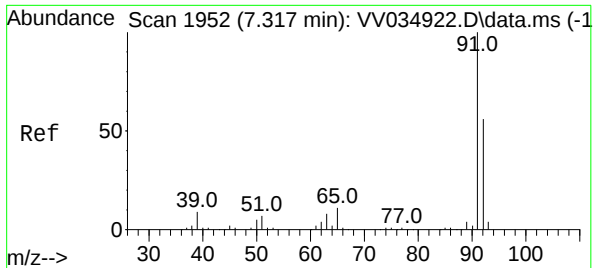
Delta R.T. -0.087 min

Lab File: VV034934.D

Acq: 02 Apr 2024 16:22

Tgt Ion: 63	Resp: 7531
Ion Ratio	Lower Upper
63 100	
112 0.0	3.5 5.3#





#42

Toluene

Concen: 0.090 ug/L

RT: 7.349 min Scan# 1962

Delta R.T. 0.032 min

Lab File: VV034934.D

Acq: 02 Apr 2024 16:22

Instrument :

MSVOA_V

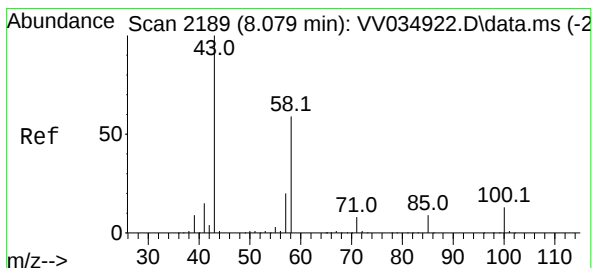
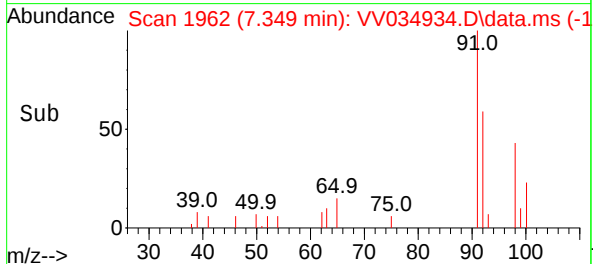
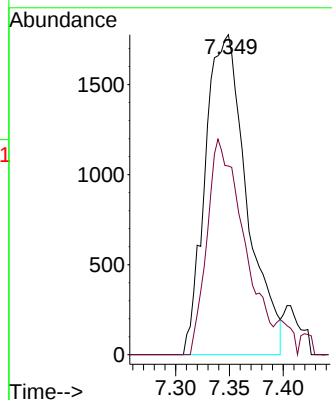
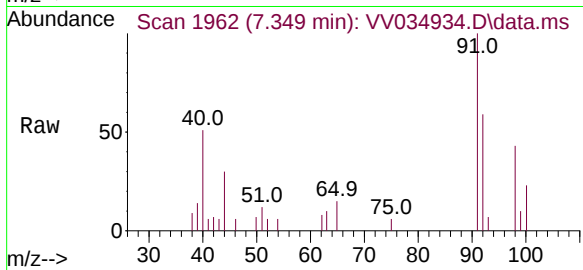
ClientSampleId :

Tgt Ion: 91 Resp: 4774

Ion Ratio Lower Upper

91 100

92 59.0 38.9 72.2



#48

2-Hexanone

Concen: 2.678 ug/L

RT: 8.108 min Scan# 2198

Delta R.T. 0.029 min

Lab File: VV034934.D

Acq: 02 Apr 2024 16:22

Tgt Ion: 43 Resp: 11902

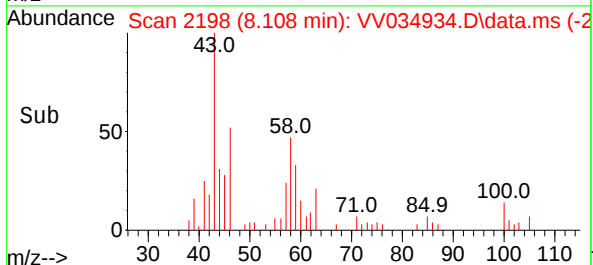
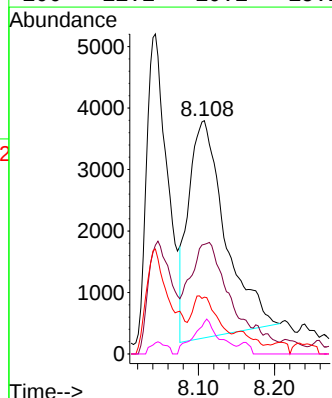
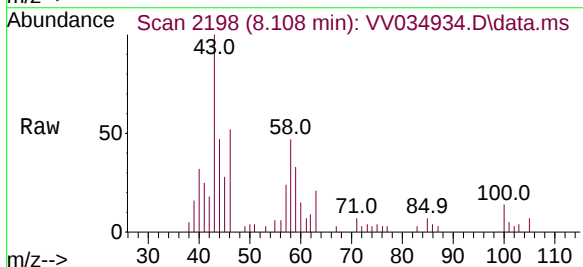
Ion Ratio Lower Upper

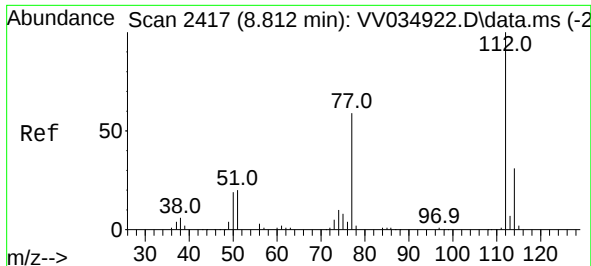
43 100

58 41.3 48.2 72.4#

57 19.5 15.6 23.4

100 11.1 10.1 15.1





#51

Chlorobenzene

Concen: 50.722 ug/L

RT: 8.815 min Scan# 2417

Delta R.T. 0.003 min

Lab File: VV034934.D

Acq: 02 Apr 2024 16:22

Instrument :

MSVOA_V

ClientSampleId :

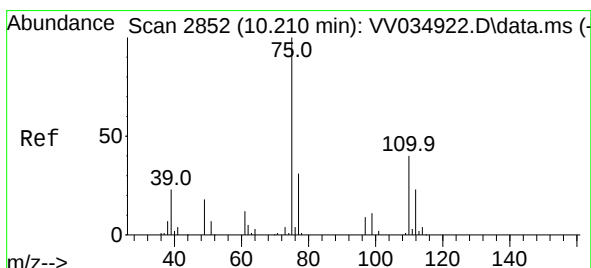
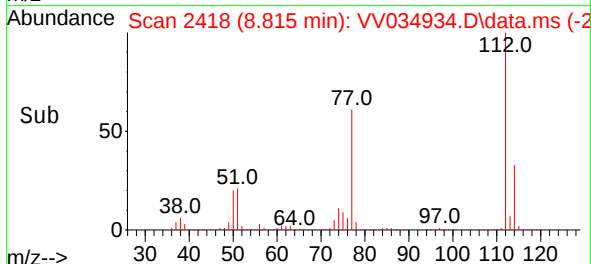
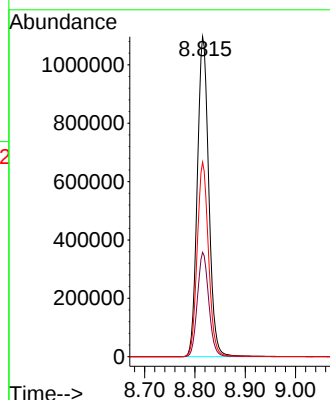
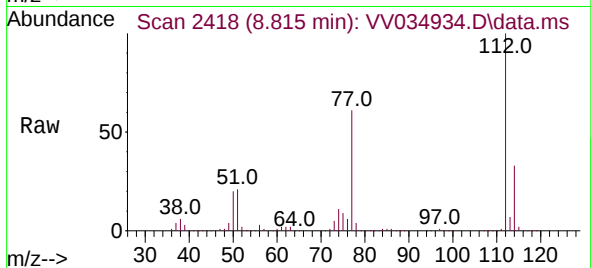
Tgt Ion:112 Resp: 1733739

Ion Ratio Lower Upper

112 100

114 32.6 21.9 40.7

77 60.8 47.4 71.2



#61

1,2,3-Trichloropropane

Concen: 6.695 ug/L

RT: 11.117 min Scan# 3134

Delta R.T. 0.907 min

Lab File: VV034934.D

Acq: 02 Apr 2024 16:22

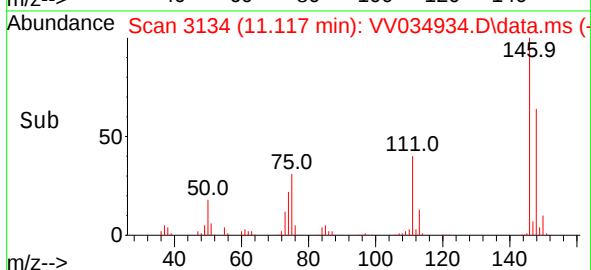
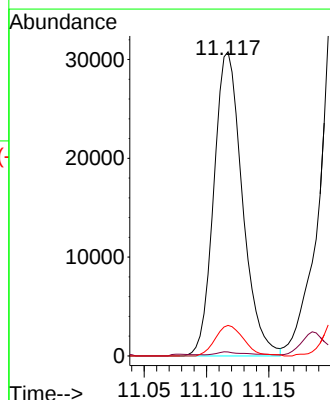
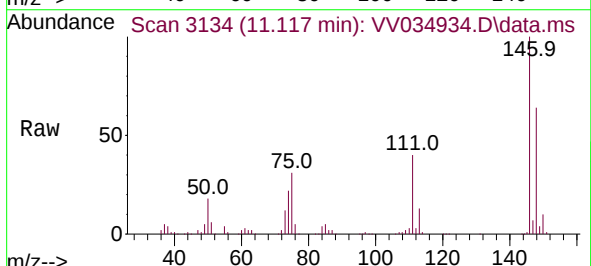
Tgt Ion: 75 Resp: 49104

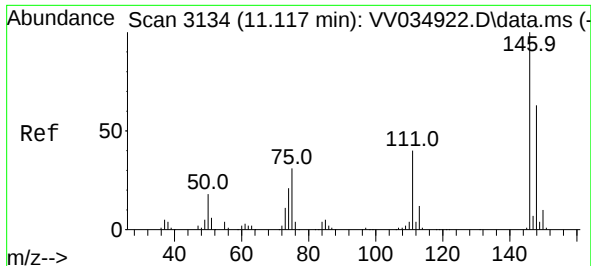
Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

110 10.1 31.0 46.6#





#64

1,3-Dichlorobenzene

Concen: 6.311 ug/L

RT: 11.117 min Scan# 3134

Delta R.T. 0.000 min

Lab File: VV034934.D

Acq: 02 Apr 2024 16:22

Instrument :

MSVOA_V

ClientSampleId :

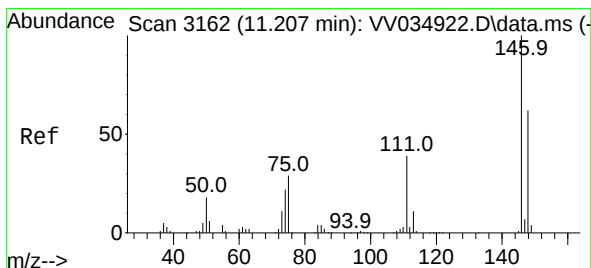
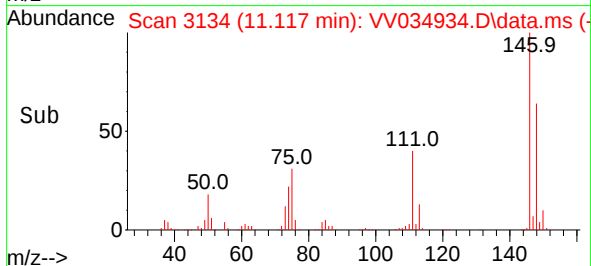
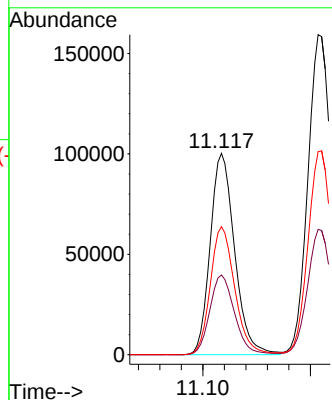
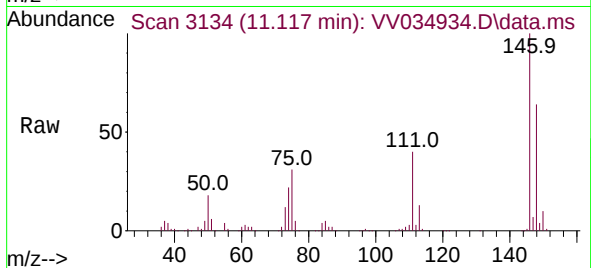
Tgt Ion:146 Resp: 158173

Ion Ratio Lower Upper

146 100

111 39.6 27.7 51.5

148 63.6 44.0 81.8



#65

1,4-Dichlorobenzene

Concen: 9.992 ug/L

RT: 11.207 min Scan# 3162

Delta R.T. 0.000 min

Lab File: VV034934.D

Acq: 02 Apr 2024 16:22

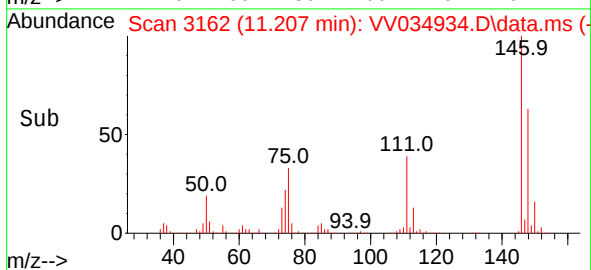
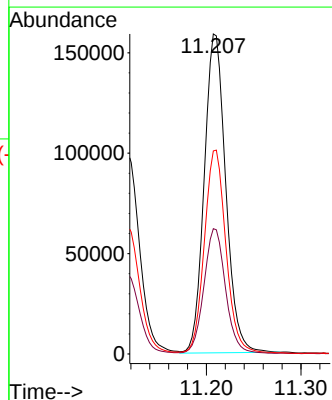
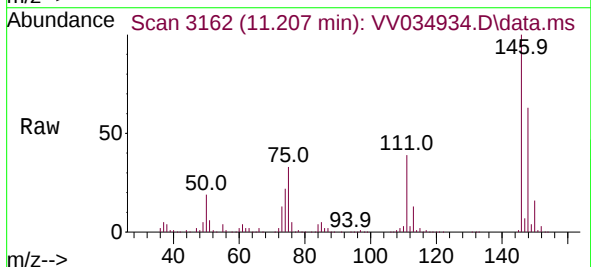
Tgt Ion:146 Resp: 250806

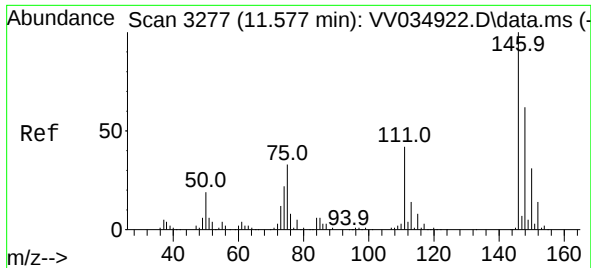
Ion Ratio Lower Upper

146 100

111 39.1 27.3 50.7

148 63.4 43.5 80.7





#67

1,2-Dichlorobenzene

Concen: 1.068 ug/L

RT: 11.580 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV034934.D

Acq: 02 Apr 2024 16:22

Instrument :

MSVOA_V

ClientSampleId :

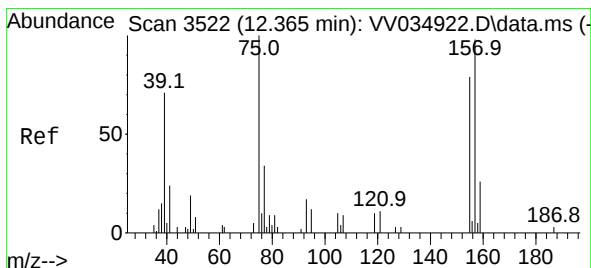
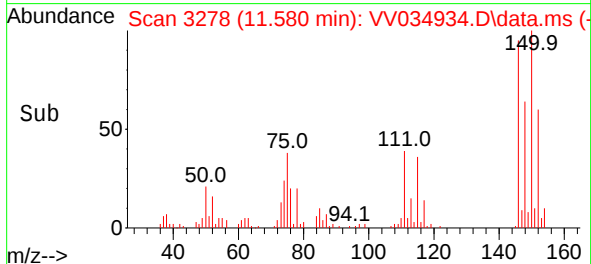
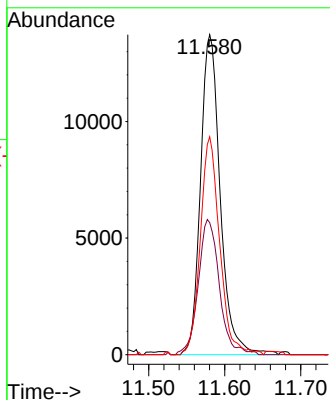
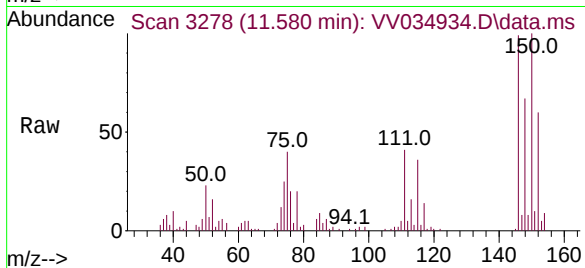
Tgt Ion:146 Resp: 24725

Ion Ratio Lower Upper

146 100

111 41.2 33.9 50.9

148 68.1 49.3 73.9



#68

1,2-Dibromo-3-chloropropane

Concen: 0.643 ug/L

RT: 12.580 min Scan# 3589

Delta R.T. 0.216 min

Lab File: VV034934.D

Acq: 02 Apr 2024 16:22

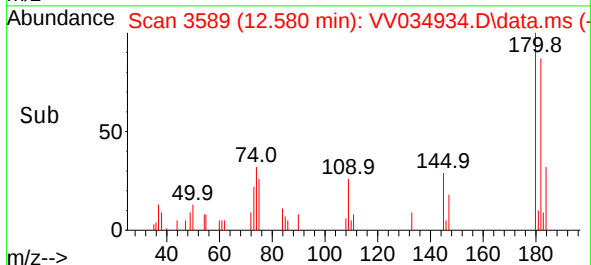
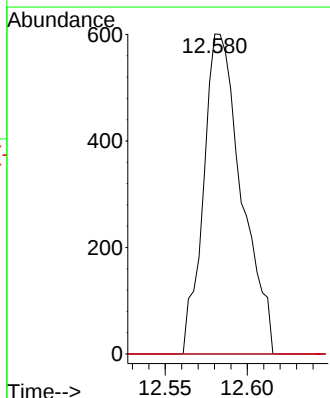
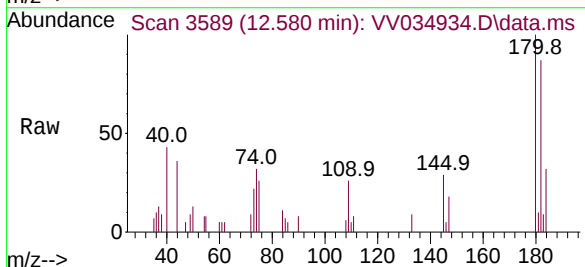
Tgt Ion: 75 Resp: 969

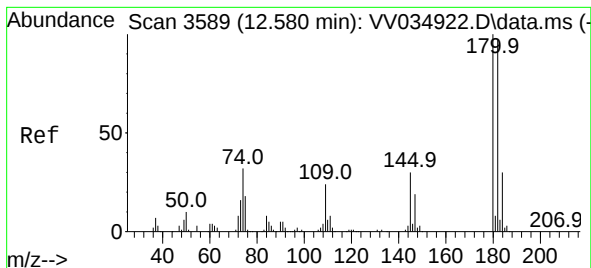
Ion Ratio Lower Upper

75 100

155 0.0 63.4 95.0#

157 0.0 78.6 117.8#





#69

1,3,5-Trichlorobenzene

Concen: 0.228 ug/L

RT: 12.583 min Scan# 3589

Delta R.T. 0.003 min

Lab File: VV034934.D

Acq: 02 Apr 2024 16:22

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:180 Resp: 4288

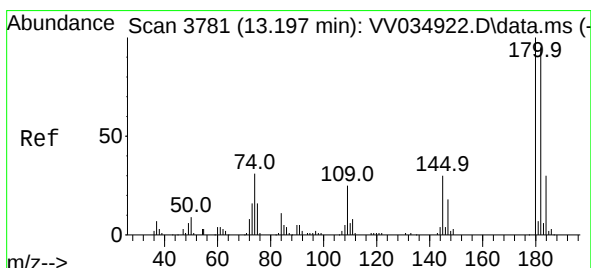
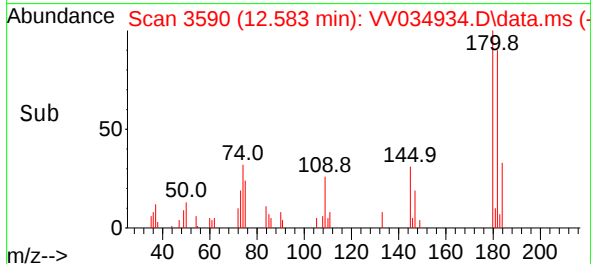
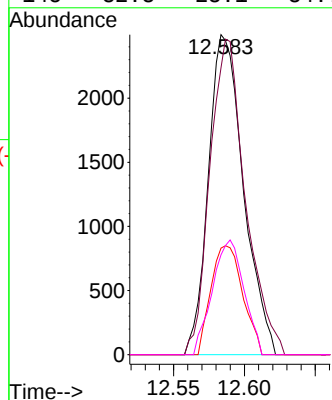
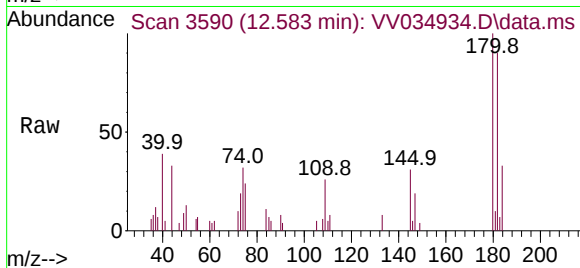
Ion Ratio Lower Upper

180 100

182 99.9 77.3 115.9

184 30.9 24.1 36.1

145 32.3 23.1 34.7



#70

1,2,4-trichlorobenzene

Concen: 12.494 ug/L

RT: 13.198 min Scan# 3781

Delta R.T. 0.000 min

Lab File: VV034934.D

Acq: 02 Apr 2024 16:22

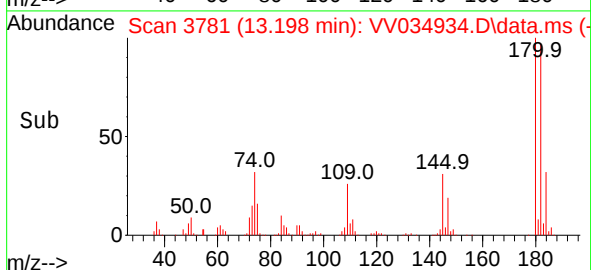
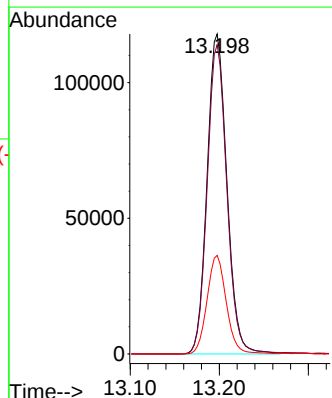
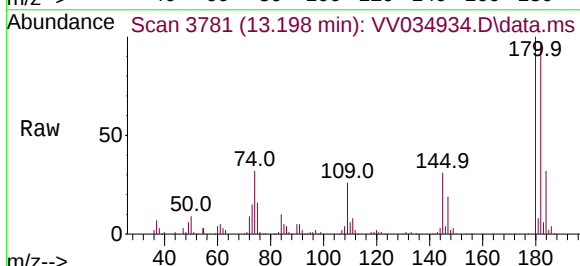
Tgt Ion:180 Resp: 182629

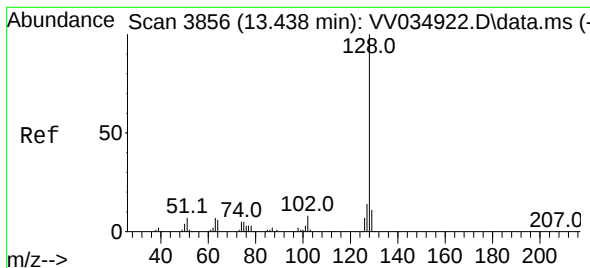
Ion Ratio Lower Upper

180 100

182 95.7 75.3 112.9

145 29.9 23.4 35.0





#71

Naphthalene

Concen: 0.118 ug/L

RT: 13.455 min Scan# 3861

Delta R.T. 0.016 min

Lab File: VV034934.D

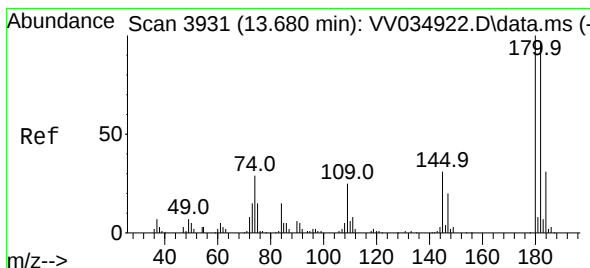
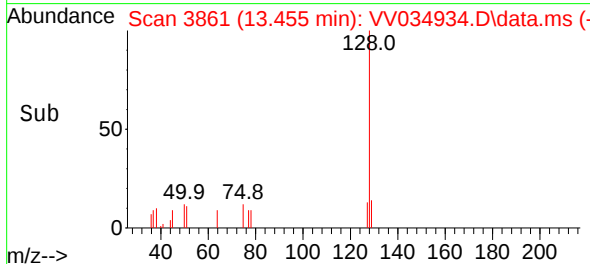
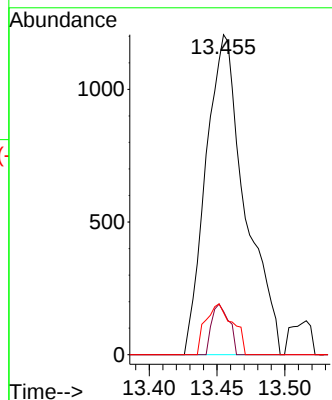
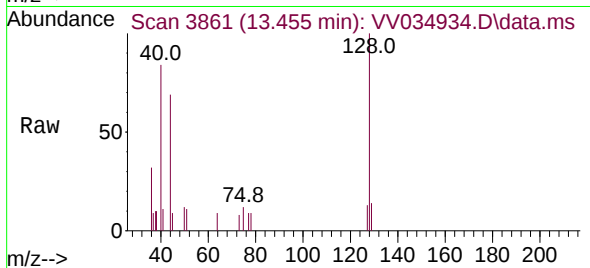
Acq: 02 Apr 2024 16:22

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:128	Resp:	2414
Ion Ratio	Lower	Upper
128	100	
129	7.0	8.6
127	11.1	10.7



#72

1,2,3-Trichlorobenzene

Concen: 0.248 ug/L

RT: 13.683 min Scan# 3932

Delta R.T. 0.003 min

Lab File: VV034934.D

Acq: 02 Apr 2024 16:22

Tgt Ion:180	Resp:	3192
Ion Ratio	Lower	Upper
180	100	
182	101.5	77.0
145	45.1	25.4

