

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV091625\
 Data File : VV039097.D
 Acq On : 16 Sep 2025 11:39
 Operator : SY/MD
 Sample : Q3084-17 400X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 17 02:21:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR091525WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Sep 17 02:19:46 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.539	114	358284	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.776	117	379040	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.175	152	166914	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.291	65	138162	4.889	ug/L	0.00
Spiked Amount	5.000	Range 40 - 130	Recovery	=	97.800%	
7) Chloroethane-d5	1.545	69	128233	5.237	ug/L	0.00
Spiked Amount	5.000	Range 65 - 130	Recovery	=	104.800%	
11) 1,1-Dichloroethene-d2	2.069	65	63057	4.684	ug/L	0.00
Spiked Amount	5.000	Range 60 - 125	Recovery	=	93.600%	
20) 2-Butanone-d5	3.799	46	231385	55.131	ug/L	0.00
Spiked Amount	50.000	Range 40 - 130	Recovery	=	110.260%	
24) Chloroform-d	4.256	84	296852	5.409	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	108.200%	
26) 1,2-Dichloroethane-d4	4.947	65	126651	5.480	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	109.600%	
32) Benzene-d6	4.963	84	523531	5.048	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	101.000%	
36) 1,2-Dichloropropane-d6	5.989	67	164520	5.307	ug/L	0.00
Spiked Amount	5.000	Range 60 - 140	Recovery	=	106.200%	
41) Toluene-d8	7.239	98	395363	4.258	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	85.200%	
43) trans-1,3-Dichloroprop...	7.555	79	54366	4.794	ug/L	0.00
Spiked Amount	5.000	Range 55 - 130	Recovery	=	95.800%	
46) 2-Hexanone-d5	8.018	63	181038	49.316	ug/L	0.00
Spiked Amount	50.000	Range 45 - 130	Recovery	=	98.640%	
56) 1,1,2,2-Tetrachloroeth...	10.143	84	120104	5.426	ug/L	0.00
Spiked Amount	5.000	Range 65 - 120	Recovery	=	108.600%	
66) 1,2-Dichlorobenzene-d4	11.548	152	150780	5.612	ug/L	0.00
Spiked Amount	5.000	Range 80 - 120	Recovery	=	112.200%	
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.294	62	20927	0.533	ug/L	90
22) cis-1,2-Dichloroethene	3.818	96	973334	33.304	ug/L	98
33) Benzene	5.018	78	19402	0.163	ug/L	100
37) 1,2-Dichloropropane	5.989	63	18841	0.609	ug/L #	89
42) Toluene	7.310	91	1918576	15.429	ug/L	100
47) Tetrachloroethene	7.902	164	22388	0.891	ug/L	95
49) Dibromochloromethane	7.905	129	20932	0.842	ug/L #	9
51) Chlorobenzene	8.805	112	382465	4.765	ug/L	99
52) Ethylbenzene	8.944	91	75705	0.591	ug/L	100
53) m,p-Xylene	9.063	106	127978	2.568	ug/L	97
54) o-Xylene	9.474	106	31697	0.693	ug/L	90
61) 1,2,3-Trichloropropane	11.107	75	34812	2.476	ug/L #	67
62) 1,3,5-Trimethylbenzene	10.468	105	16740	0.195	ug/L	90
63) 1,2,4-Trimethylbenzene	10.844	105	52529	0.624	ug/L	97
64) 1,3-Dichlorobenzene	11.107	146	115777	2.125	ug/L	98
65) 1,4-Dichlorobenzene	11.198	146	771747	13.694	ug/L	99
67) 1,2-Dichlorobenzene	11.567	146	174713	3.619	ug/L	98
70) 1,2,4-trichlorobenzene	13.185	180	1436969	53.461	ug/L	96
71) Naphthalene	13.435	128	21053	0.514	ug/L	99

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QLast Update : Wed Sep 17 02:19:46 2025
Response via : Initial Calibration

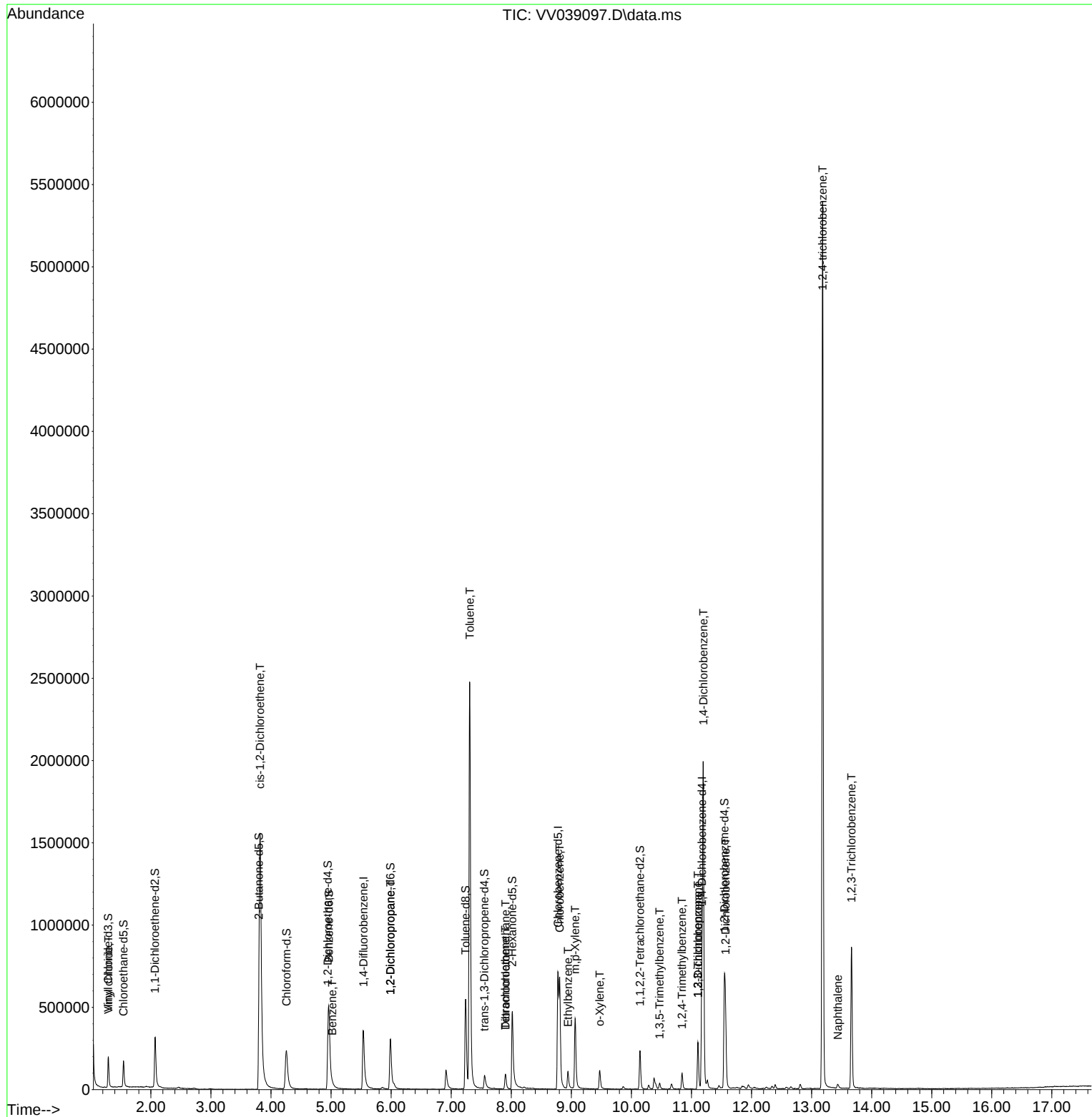
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 1,2,3-Trichlorobenzene	13.664	180	241266	10.067	ug/L	99

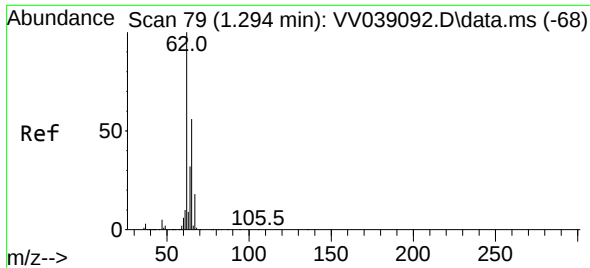
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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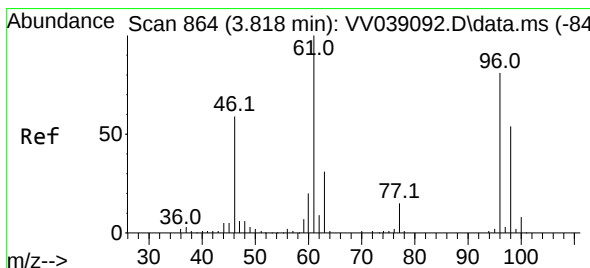
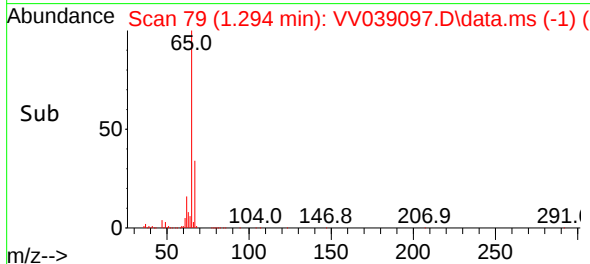
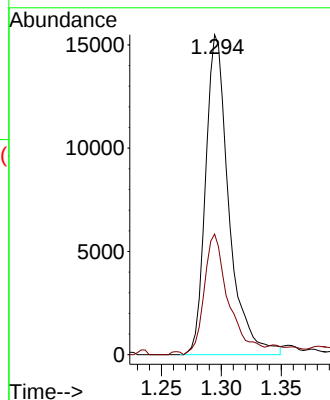
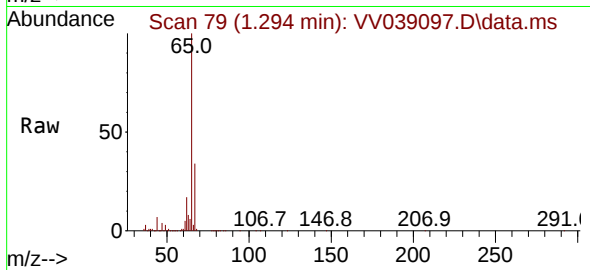




#5
 Vinyl chloride
 Concen: 0.533 ug/L
 RT: 1.294 min Scan# 79
 Delta R.T. 0.000 min
 Lab File: VV039097.D
 Acq: 16 Sep 2025 11:39

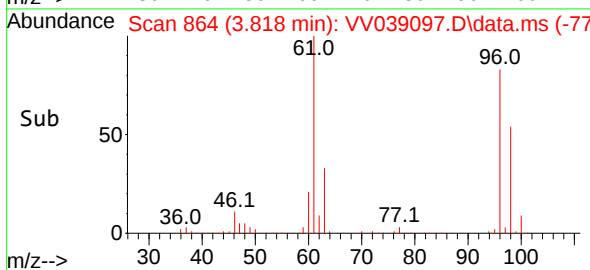
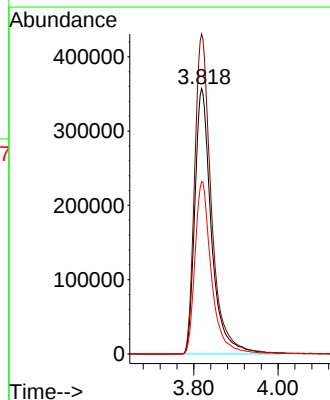
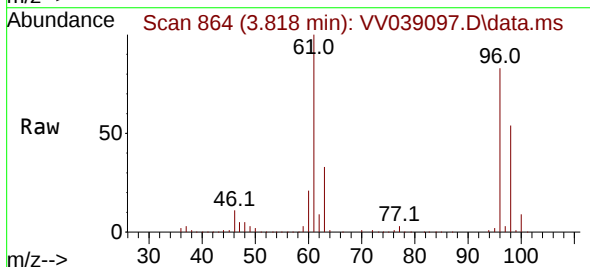
Instrument :
 MSVOA_V
 ClientSampleId :

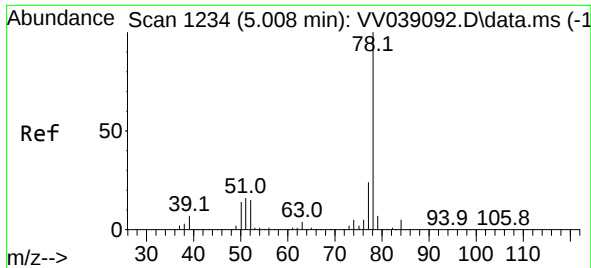
Tgt Ion: 62 Resp: 20927
 Ion Ratio Lower Upper
 62 100
 64 37.7 22.4 41.6



#22
 cis-1,2-Dichloroethene
 Concen: 33.304 ug/L
 RT: 3.818 min Scan# 864
 Delta R.T. 0.000 min
 Lab File: VV039097.D
 Acq: 16 Sep 2025 11:39

Tgt Ion: 96 Resp: 973334
 Ion Ratio Lower Upper
 96 100
 61 120.6 85.4 158.6
 98 64.9 46.6 86.6

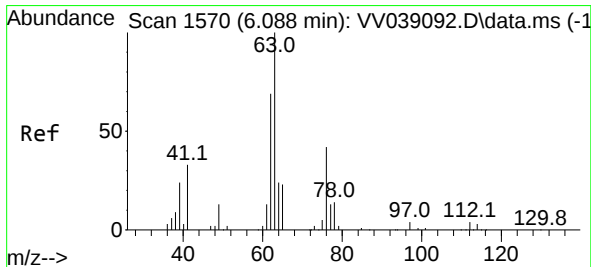
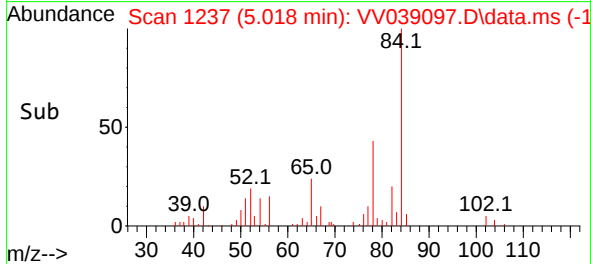
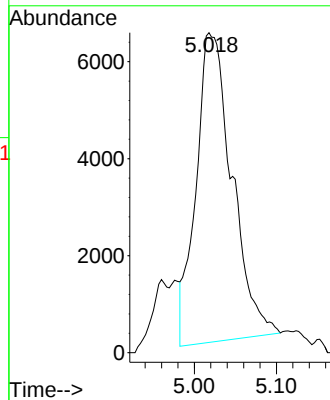
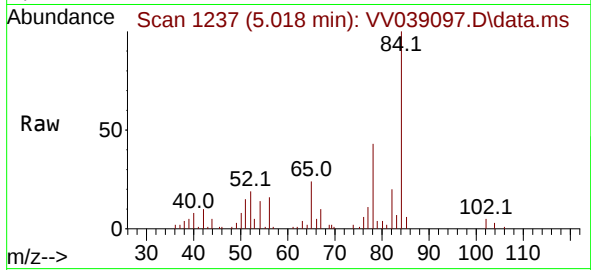




#33
Benzene
Concen: 0.163 ug/L
RT: 5.018 min Scan# 11
Delta R.T. 0.010 min
Lab File: VV039097.D
Acq: 16 Sep 2025 11:39

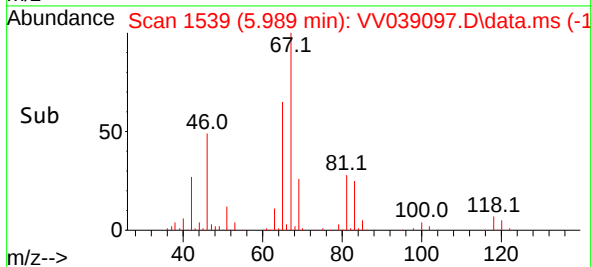
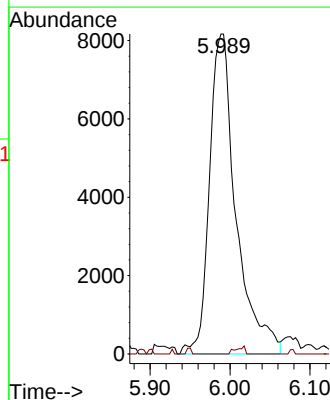
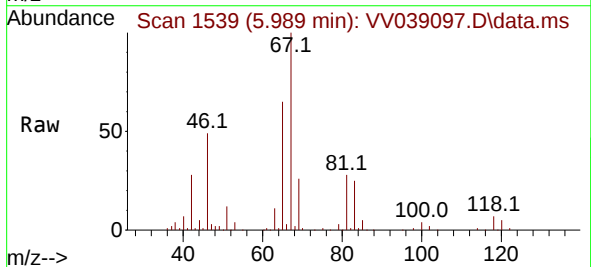
Instrument :
MSVOA_V
ClientSampleId :

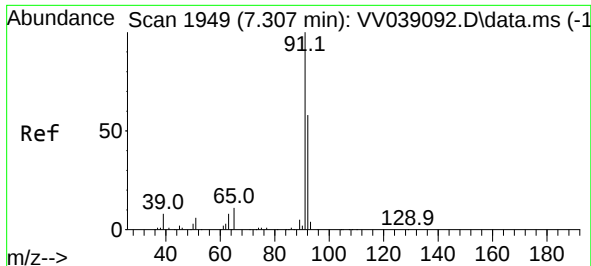
Tgt Ion: 78 Resp: 19402



#37
1,2-Dichloropropane
Concen: 0.609 ug/L
RT: 5.989 min Scan# 1539
Delta R.T. -0.100 min
Lab File: VV039097.D
Acq: 16 Sep 2025 11:39

Tgt Ion: 63 Resp: 18841
Ion Ratio Lower Upper
63 100
112 0.8 3.6 5.4#

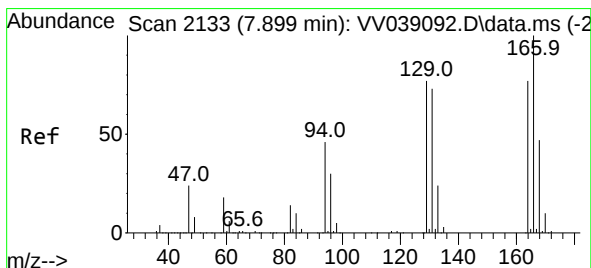
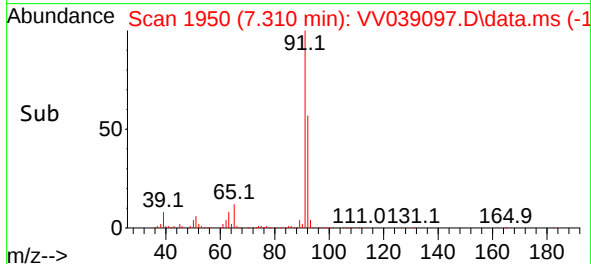
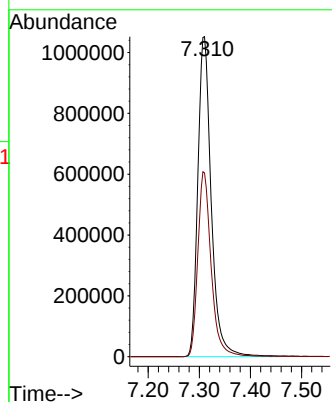
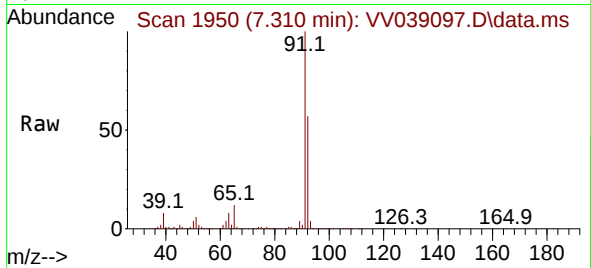




#42
Toluene
Concen: 15.429 ug/L
RT: 7.310 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039097.D
Acq: 16 Sep 2025 11:39

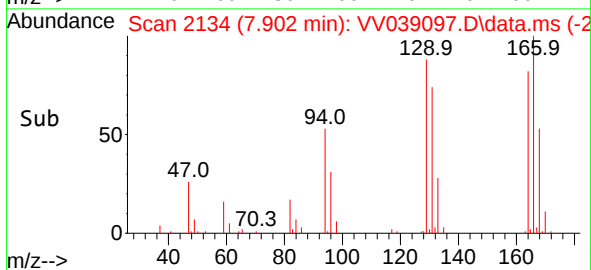
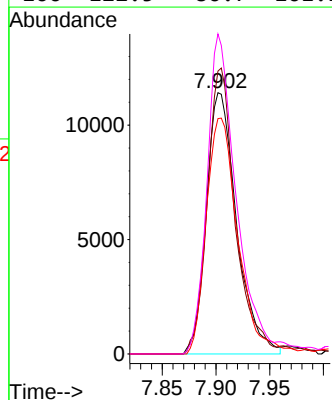
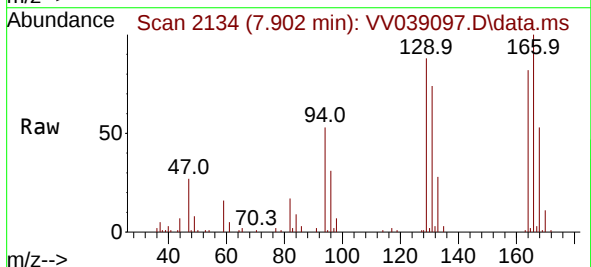
Instrument :
MSVOA_V
ClientSampleId :

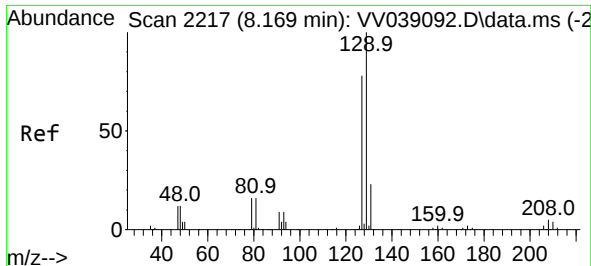
Tgt Ion: 91 Resp: 1918576
Ion Ratio Lower Upper
91 100
92 57.5 40.5 75.1



#47
Tetrachloroethene
Concen: 0.891 ug/L
RT: 7.902 min Scan# 2134
Delta R.T. 0.003 min
Lab File: VV039097.D
Acq: 16 Sep 2025 11:39

Tgt Ion: 164 Resp: 22388
Ion Ratio Lower Upper
164 100
129 108.3 68.0 126.4
131 90.1 65.4 121.4
166 122.5 86.7 161.1





#49

Dibromochloromethane

Concen: 0.842 ug/L

RT: 7.905 min Scan# 2135

Delta R.T. -0.264 min

Lab File: VV039097.D

Acq: 16 Sep 2025 11:39

Instrument :

MSVOA_V

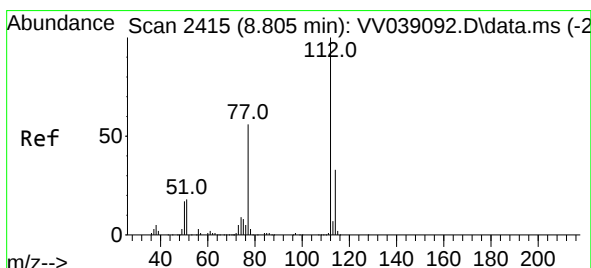
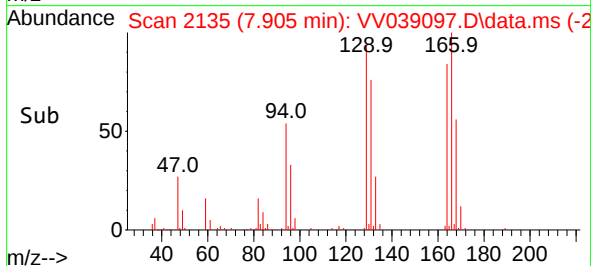
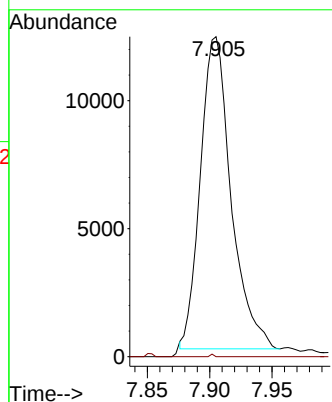
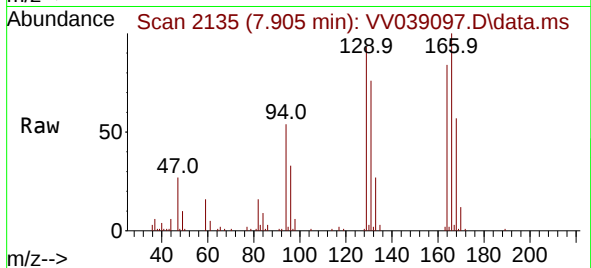
ClientSampleId :

Tgt Ion:129 Resp: 20932

Ion Ratio Lower Upper

129 100

127 0.0 56.7 105.3#



#51

Chlorobenzene

Concen: 4.765 ug/L

RT: 8.805 min Scan# 2415

Delta R.T. 0.000 min

Lab File: VV039097.D

Acq: 16 Sep 2025 11:39

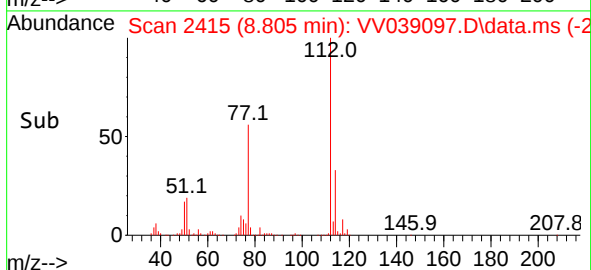
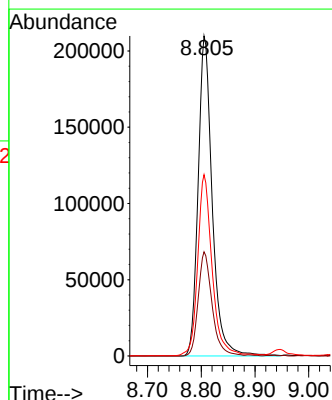
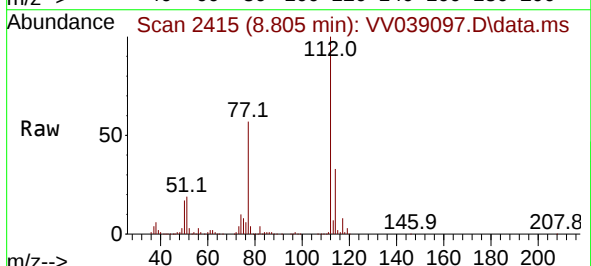
Tgt Ion:112 Resp: 382465

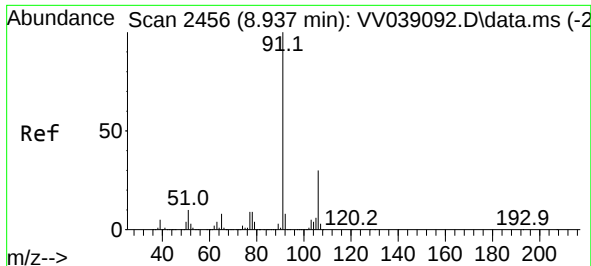
Ion Ratio Lower Upper

112 100

114 32.6 23.0 42.6

77 56.6 46.6 69.8





#52

Ethylbenzene

Concen: 0.591 ug/L

RT: 8.944 min Scan# 2456

Delta R.T. 0.006 min

Lab File: VV039097.D

Acq: 16 Sep 2025 11:39

Instrument :

MSVOA_V

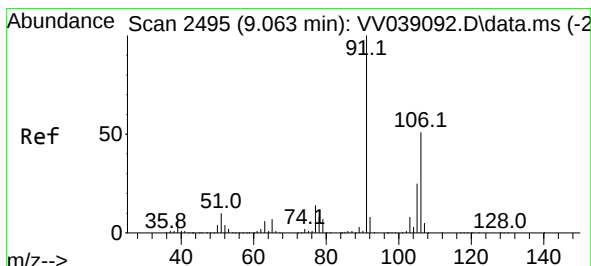
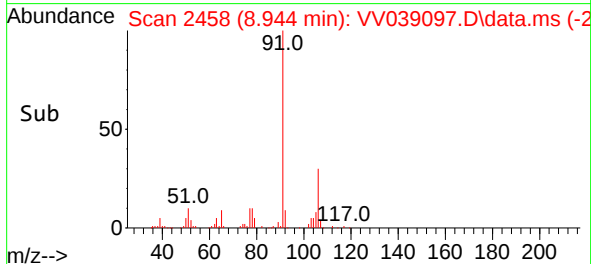
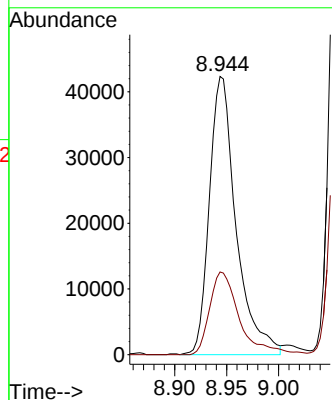
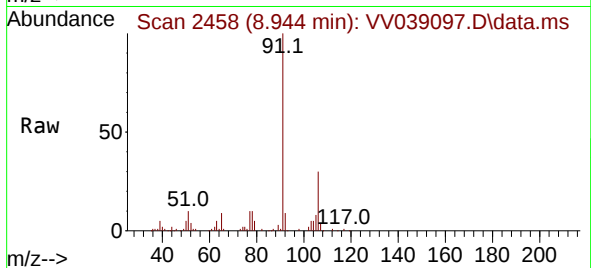
ClientSampleId :

Tgt Ion: 91 Resp: 75705

Ion Ratio Lower Upper

91 100

106 29.7 20.8 38.6



#53

m,p-Xylene

Concen: 2.568 ug/L

RT: 9.063 min Scan# 2495

Delta R.T. 0.000 min

Lab File: VV039097.D

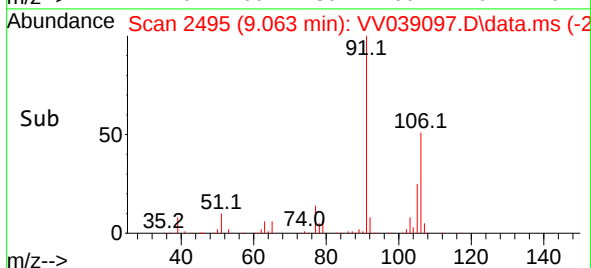
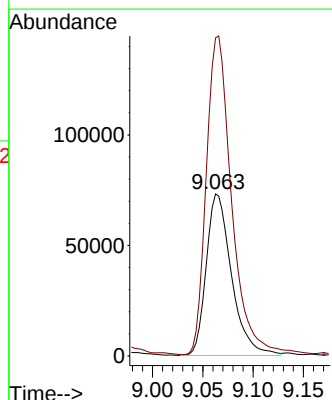
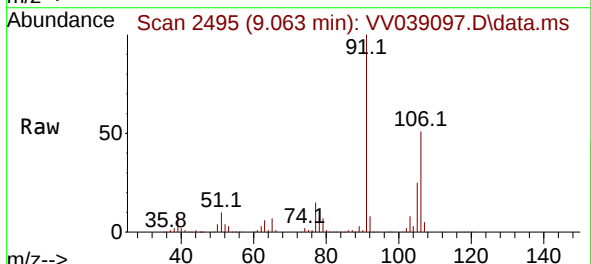
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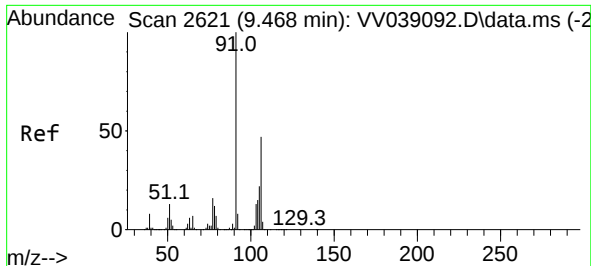
Tgt Ion:106 Resp: 127978

Ion Ratio Lower Upper

106 100

91 196.2 140.1 260.3

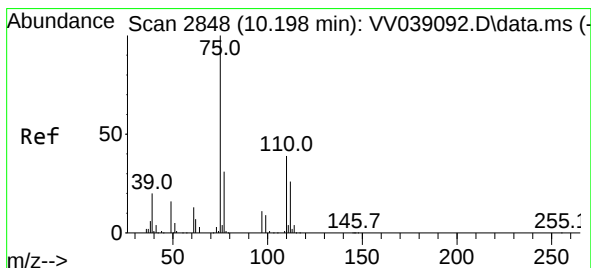
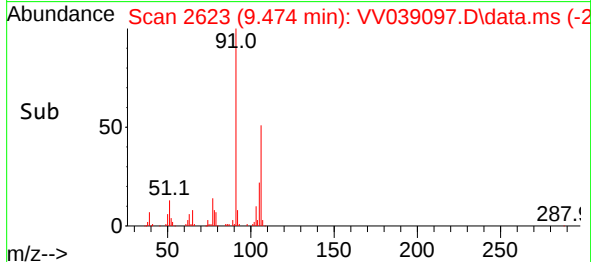
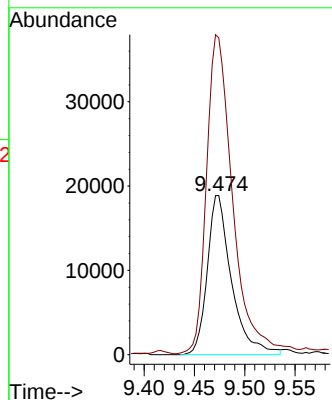
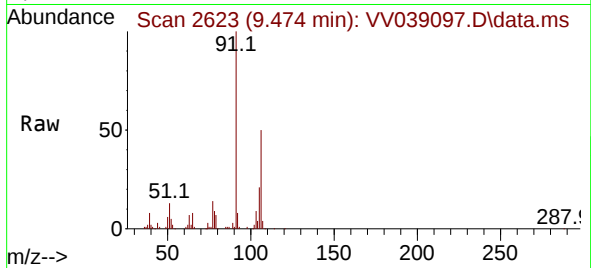




#54
o-Xylene
Concen: 0.693 ug/L
RT: 9.474 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV039097.D
Acq: 16 Sep 2025 11:39

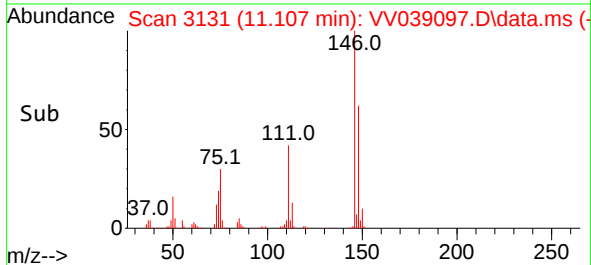
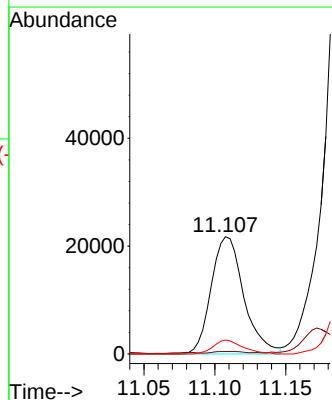
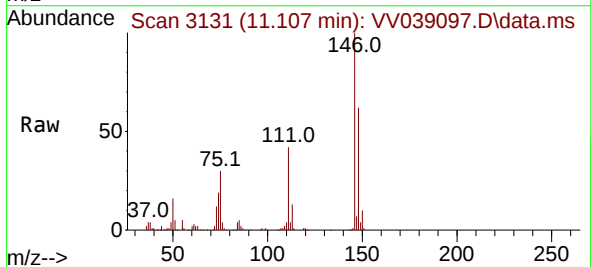
Instrument :
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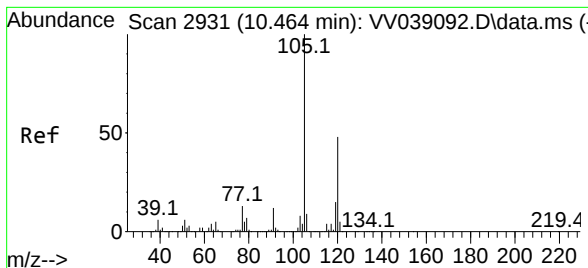
Tgt Ion:106 Resp: 31697
Ion Ratio Lower Upper
106 100
91 198.9 150.7 279.9



#61
1,2,3-Trichloropropane
Concen: 2.476 ug/L
RT: 11.107 min Scan# 3131
Delta R.T. 0.910 min
Lab File: VV039097.D
Acq: 16 Sep 2025 11:39

Tgt Ion: 75 Resp: 34812
Ion Ratio Lower Upper
75 100
77 21.6 25.1 37.7#
110 10.6 31.0 46.4#





#62

1,3,5-Trimethylbenzene

Concen: 0.195 ug/L

RT: 10.468 min Scan# 2931

Delta R.T. 0.003 min

Lab File: VV039097.D

Acq: 16 Sep 2025 11:39

Instrument :

MSVOA_V

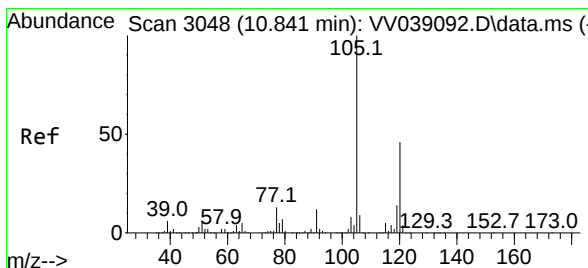
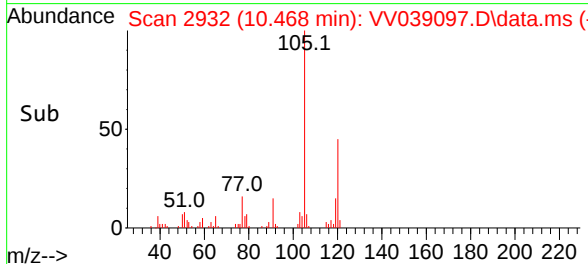
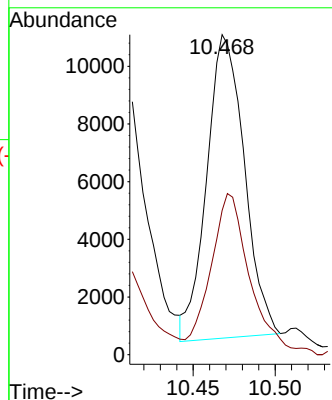
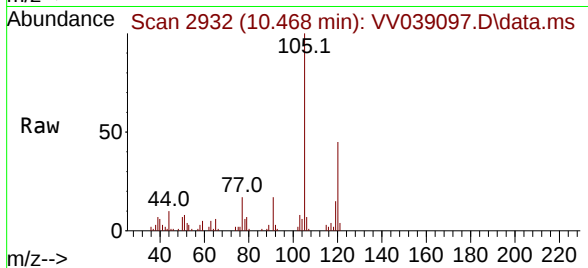
ClientSampleId :

Tgt Ion:105 Resp: 16740

Ion Ratio Lower Upper

105 100

120 56.1 39.1 58.7



#63

1,2,4-Trimethylbenzene

Concen: 0.624 ug/L

RT: 10.844 min Scan# 3049

Delta R.T. 0.003 min

Lab File: VV039097.D

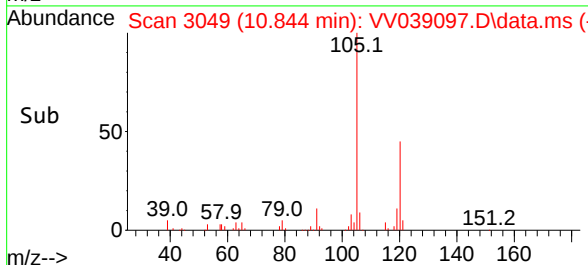
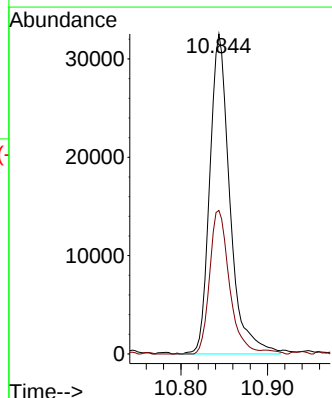
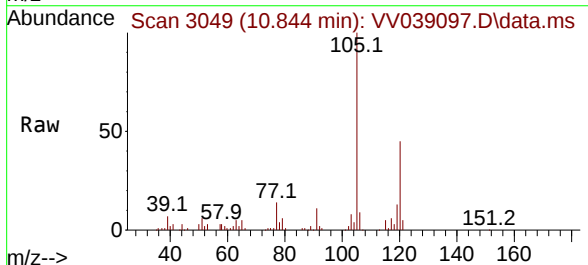
Acq: 16 Sep 2025 11:39

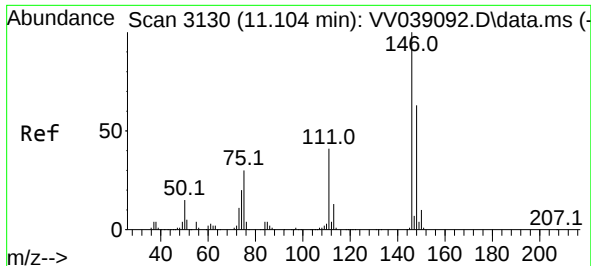
Tgt Ion:105 Resp: 52529

Ion Ratio Lower Upper

105 100

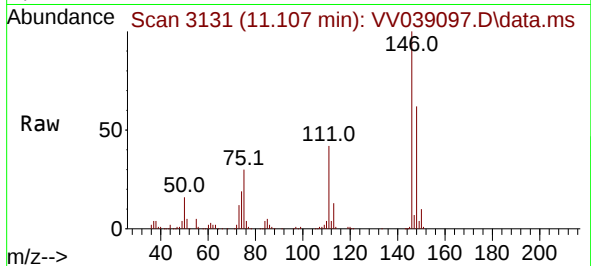
120 44.0 36.6 54.8



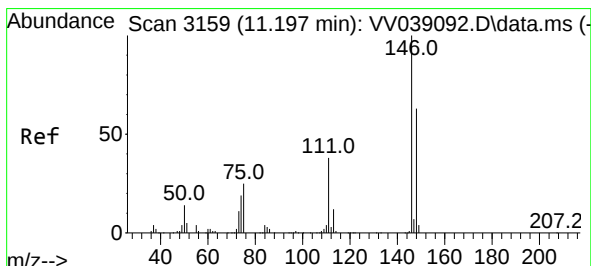
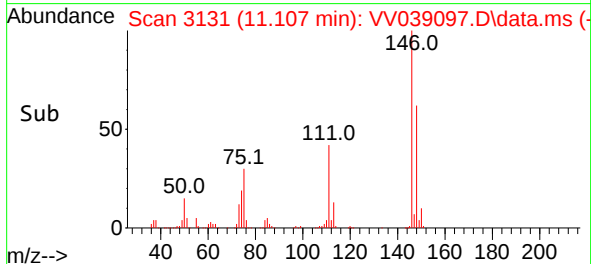
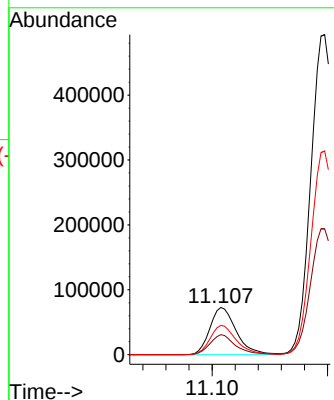


#64
1,3-Dichlorobenzene
Concen: 2.125 ug/L
RT: 11.107 min Scan# 3131
Delta R.T. 0.003 min
Lab File: VV039097.D
Acq: 16 Sep 2025 11:39

Instrument :
MSVOA_V
ClientSampleId :

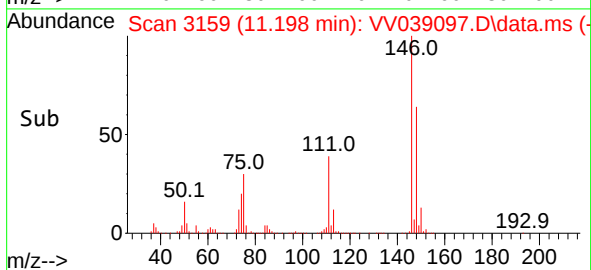
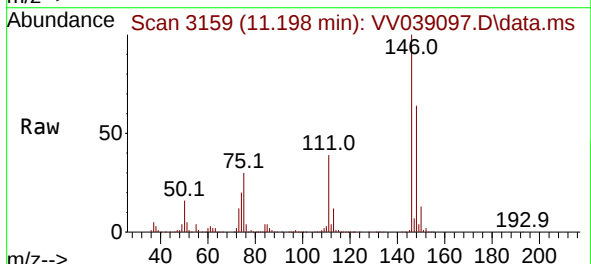
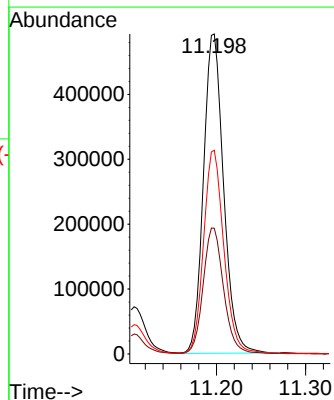


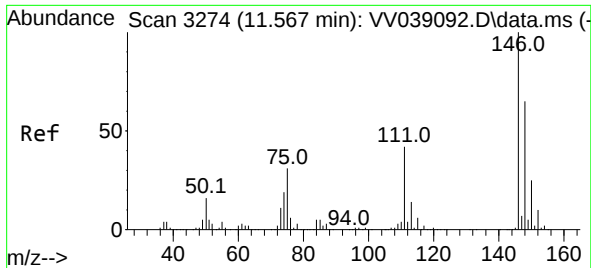
Tgt Ion:146 Resp: 115777
Ion Ratio Lower Upper
146 100
111 42.3 28.3 52.7
148 62.2 42.9 79.7



#65
1,4-Dichlorobenzene
Concen: 13.694 ug/L
RT: 11.198 min Scan# 3159
Delta R.T. 0.000 min
Lab File: VV039097.D
Acq: 16 Sep 2025 11:39

Tgt Ion:146 Resp: 771747
Ion Ratio Lower Upper
146 100
111 39.3 27.2 50.6
148 63.7 43.8 81.4





#67

1,2-Dichlorobenzene

Concen: 3.619 ug/L

RT: 11.567 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV039097.D

Acq: 16 Sep 2025 11:39

Instrument :

MSVOA_V

ClientSampleId :

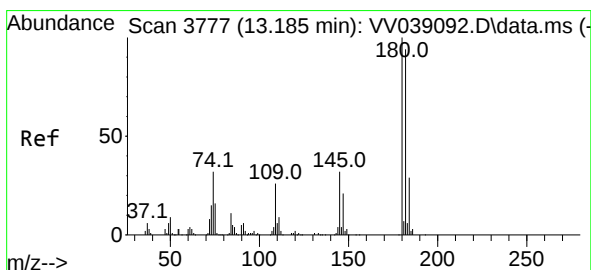
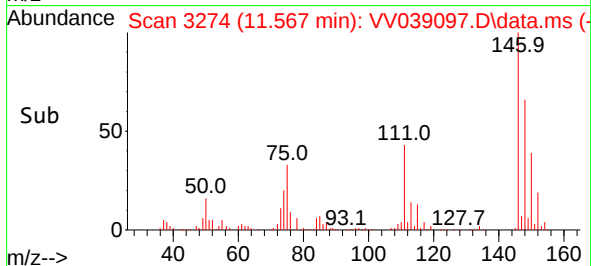
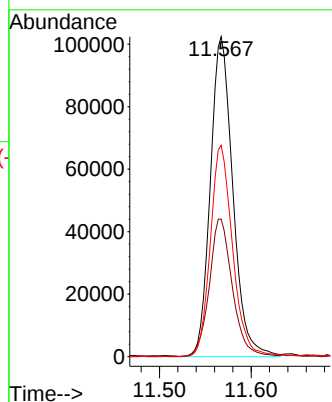
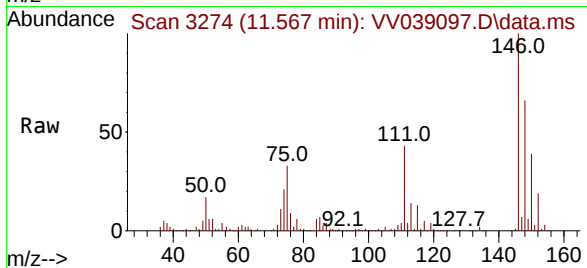
Tgt Ion:146 Resp: 174713

Ion Ratio Lower Upper

146 100

111 43.0 33.4 50.2

148 66.0 51.1 76.7



#70

1,2,4-trichlorobenzene

Concen: 53.461 ug/L

RT: 13.185 min Scan# 3777

Delta R.T. 0.000 min

Lab File: VV039097.D

Acq: 16 Sep 2025 11:39

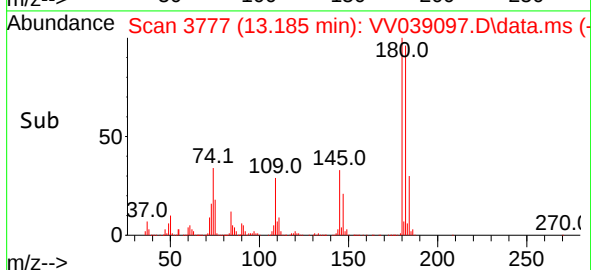
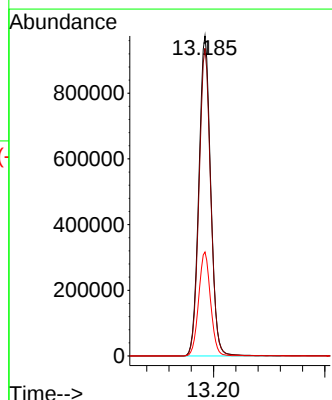
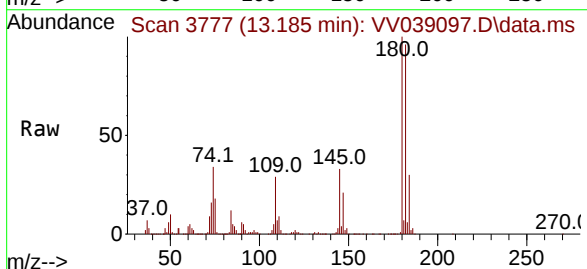
Tgt Ion:180 Resp: 1436969

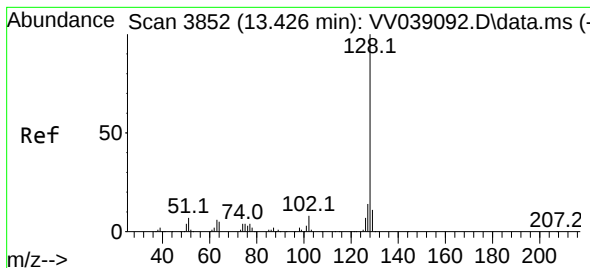
Ion Ratio Lower Upper

180 100

182 95.2 73.2 109.8

145 32.6 25.0 37.4





#71

Naphthalene

Concen: 0.514 ug/L

RT: 13.435 min Scan# 3855

Delta R.T. 0.010 min

Lab File: VV039097.D

Acq: 16 Sep 2025 11:39

Instrument :

MSVOA_V

ClientSampleId :

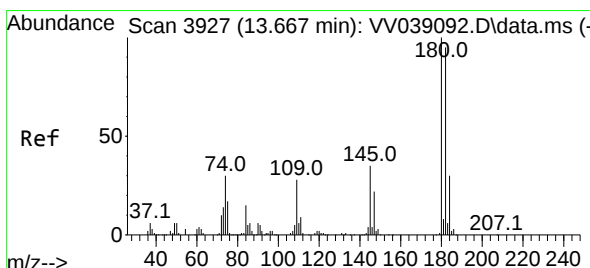
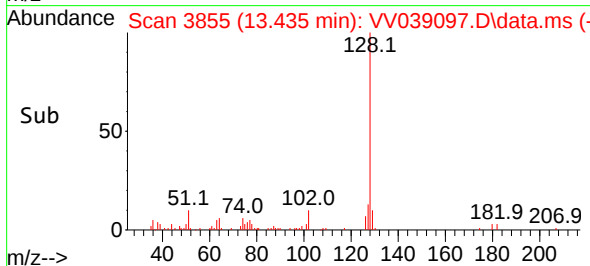
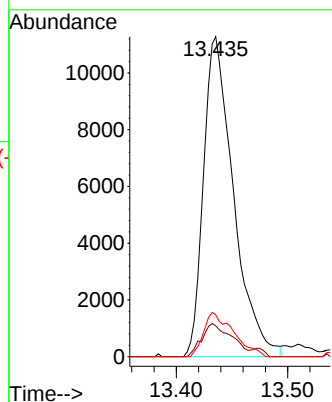
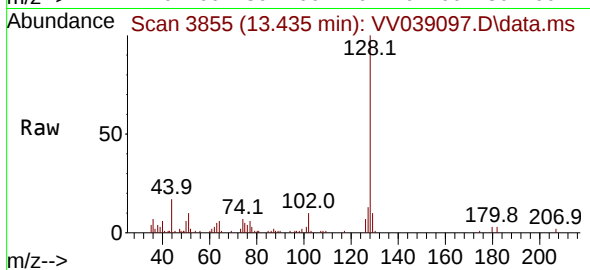
Tgt Ion:128 Resp: 21053

Ion Ratio Lower Upper

128 100

129 10.3 8.6 12.8

127 13.8 10.8 16.2



#72

1,2,3-Trichlorobenzene

Concen: 10.067 ug/L

RT: 13.664 min Scan# 3926

Delta R.T. -0.003 min

Lab File: VV039097.D

Acq: 16 Sep 2025 11:39

Tgt Ion:180 Resp: 241266

Ion Ratio Lower Upper

180 100

182 97.1 76.6 115.0

145 34.3 27.4 41.2

