

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV082125\
 Data File : VV038988.D
 Acq On : 21 Aug 2025 18:14
 Operator : SY/MD
 Sample : Q2929-02
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 22 04:35:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 04:15:04 2025
 Response via : Initial Calibration

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

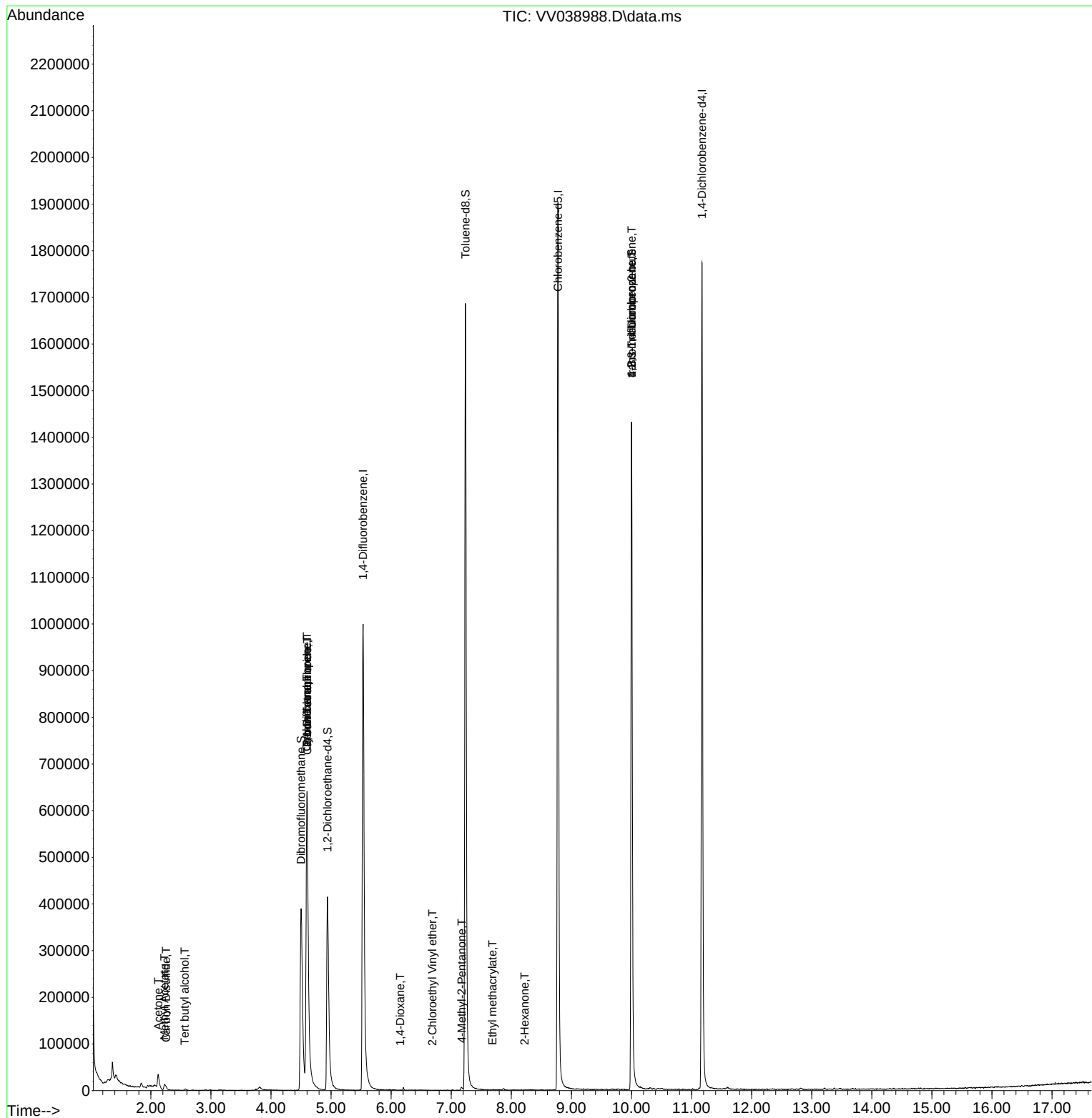
Internal Standards						
1) Pentafluorobenzene	4.600	168	567969	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	999329	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	1081937	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	465817	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	394780	49.536	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	99.080%
35) Dibromofluoromethane	4.500	113	322374	43.015	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	86.040%
50) Toluene-d8	7.236	98	1193111	45.654	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	91.300%
62) 4-Bromofluorobenzene	10.002	95	485086	50.740	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	101.480%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.564	59	490	0.454	ug/l #	73
13) Acrolein	2.021	56	421	Below Cal	#	80
16) Acetone	2.124	43	33120	10.354	ug/l	97
17) Carbon Disulfide	2.256	76	3785	0.211	ug/l	100
18) Methyl Acetate	2.227	43	3821	0.564	ug/l #	45
28) Bromochloromethane	4.185	49	22	Below Cal	#	3
31) Cyclohexane	4.597	56	9958	0.892	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	40617	4.173	ug/l #	48
38) Carbon Tetrachloride	4.603	117	60250	4.623	ug/l #	16
49) 1,4-Dioxane	6.150	88	98	0.901	ug/l #	26
51) 4-Methyl-2-Pentanone	7.175	43	5262	0.552	ug/l #	48
56) Ethyl methacrylate	7.683	69	20	2.317	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.683	63	42	4.992	ug/l #	43
59) 2-Hexanone	8.223	43	267	10.923	ug/l	84
76) 1,2,3-Trichloropropane	10.002	75	246006	28.472	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.002	75	246006	65.368	ug/l #	14

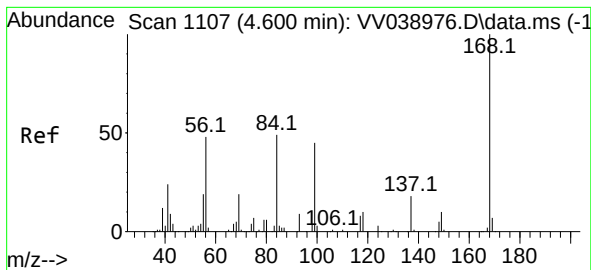
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 22 04:15:04 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.600 min Scan# 11

Delta R.T. -0.000 min

Lab File: VV038988.D

Acq: 21 Aug 2025 18:14

Instrument :

MSVOA_V

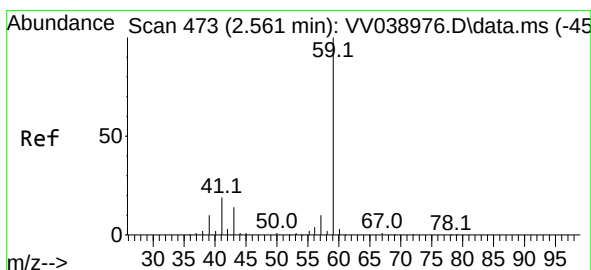
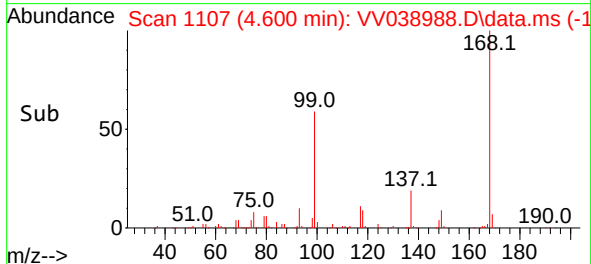
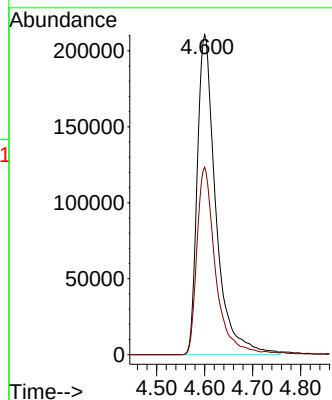
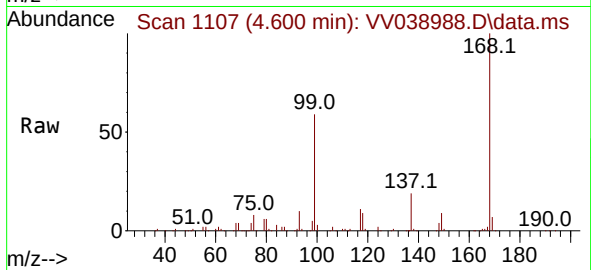
ClientSampleId :

Tgt Ion:168 Resp: 567969

Ion Ratio Lower Upper

168 100

99 58.6 47.0 70.6



#11

Tert butyl alcohol

Concen: 0.454 ug/l

RT: 2.564 min Scan# 474

Delta R.T. 0.003 min

Lab File: VV038988.D

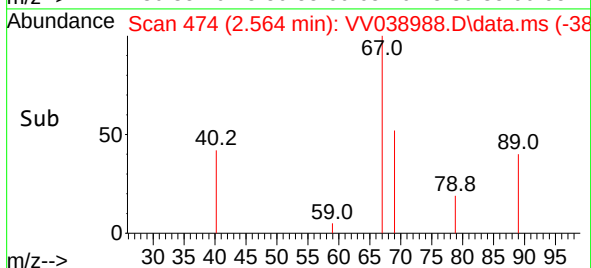
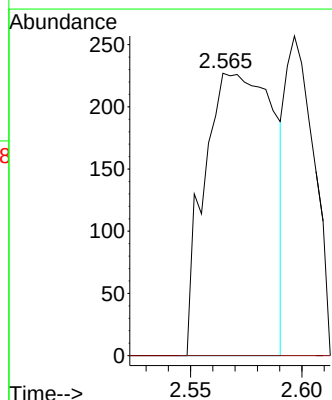
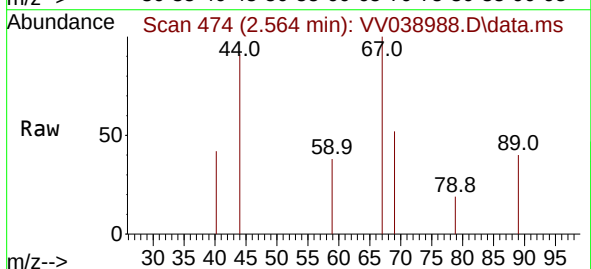
Acq: 21 Aug 2025 18:14

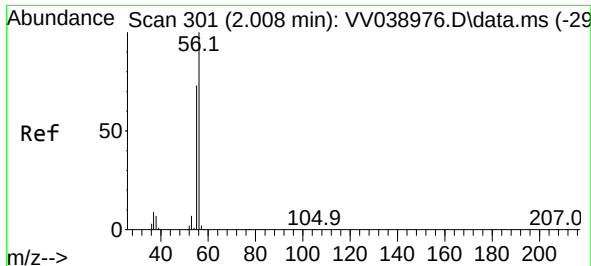
Tgt Ion: 59 Resp: 490

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#

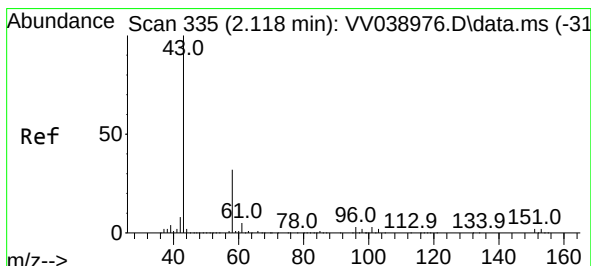
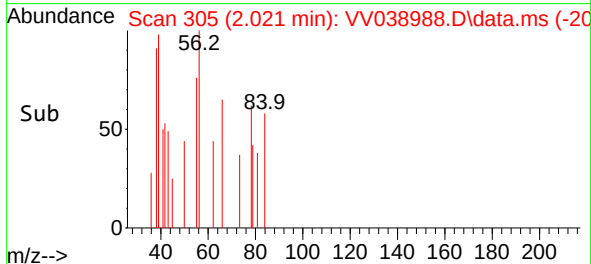
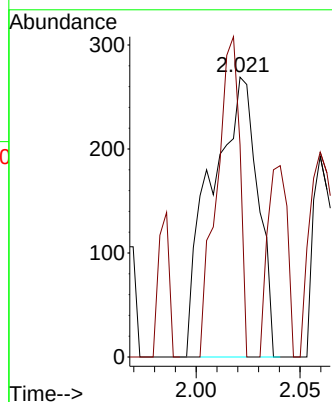
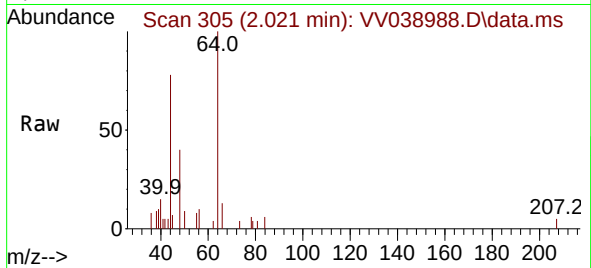




#13
Acrolein
Concen: Below Cal
RT: 2.021 min Scan# 301
Delta R.T. 0.013 min
Lab File: VV038988.D
Acq: 21 Aug 2025 18:14

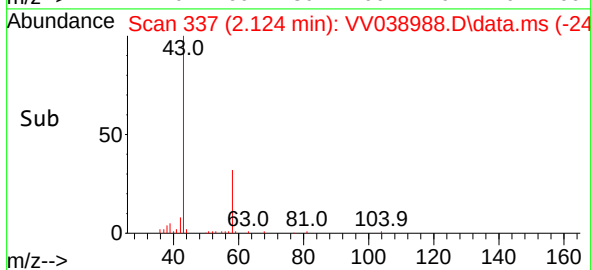
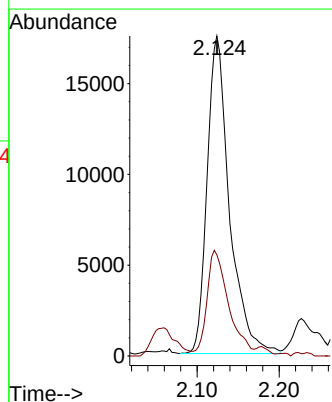
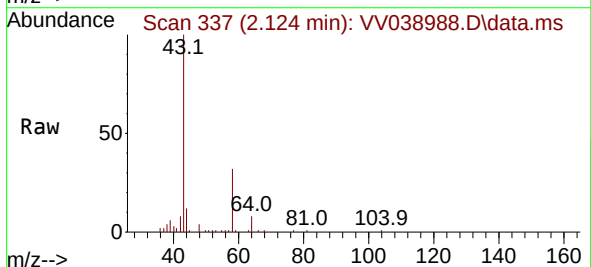
Instrument :
MSVOA_V
ClientSampleId :

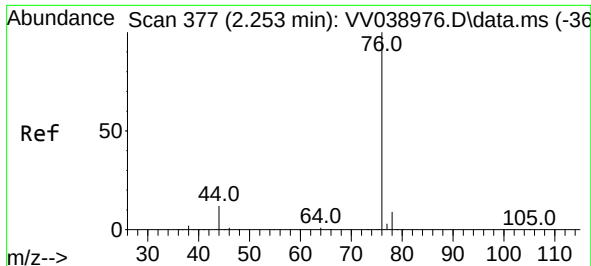
Tgt Ion: 56 Resp: 421
Ion Ratio Lower Upper
56 100
55 56.3 58.8 88.2#



#16
Acetone
Concen: 10.354 ug/l
RT: 2.124 min Scan# 337
Delta R.T. 0.006 min
Lab File: VV038988.D
Acq: 21 Aug 2025 18:14

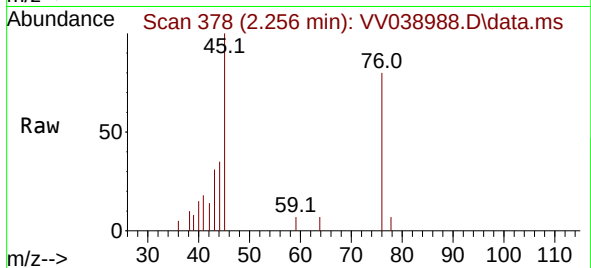
Tgt Ion: 43 Resp: 33120
Ion Ratio Lower Upper
43 100
58 31.1 26.3 39.5



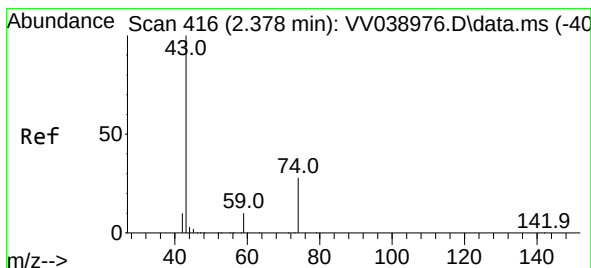
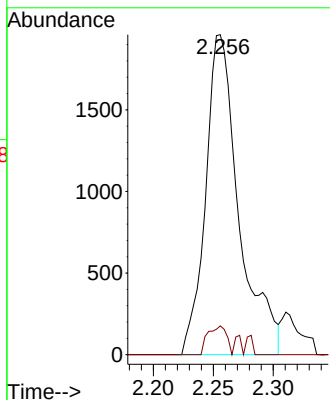
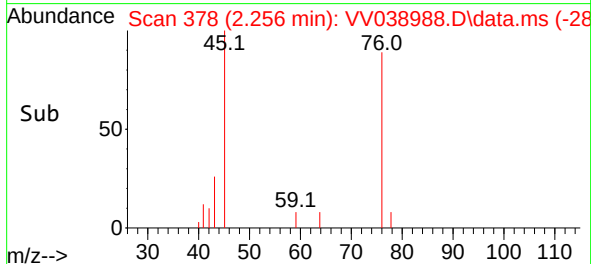


#17
Carbon Disulfide
Concen: 0.211 ug/l
RT: 2.256 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV038988.D
Acq: 21 Aug 2025 18:14

Instrument :
MSVOA_V
ClientSampleId :

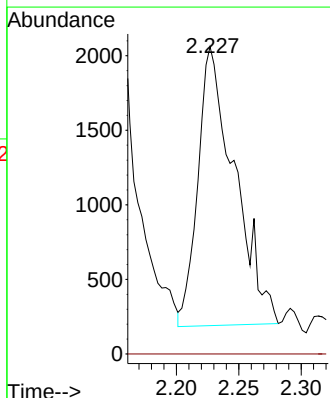
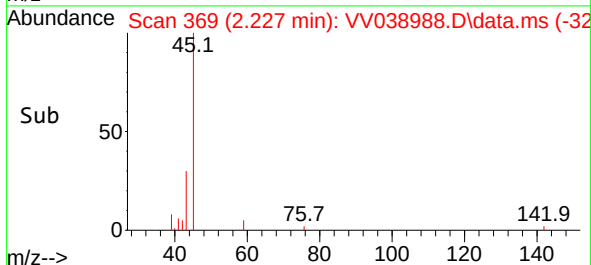
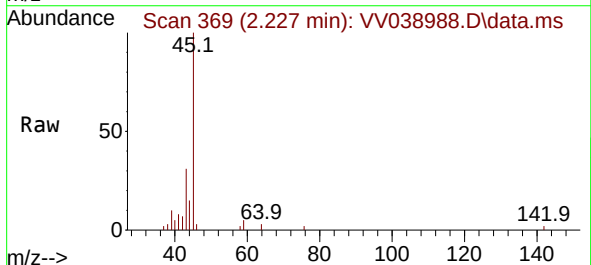


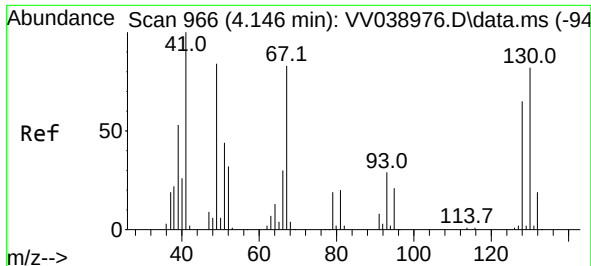
Tgt Ion: 76 Resp: 3785
Ion Ratio Lower Upper
76 100
78 9.0 7.3 10.9



#18
Methyl Acetate
Concen: 0.564 ug/l
RT: 2.227 min Scan# 369
Delta R.T. -0.151 min
Lab File: VV038988.D
Acq: 21 Aug 2025 18:14

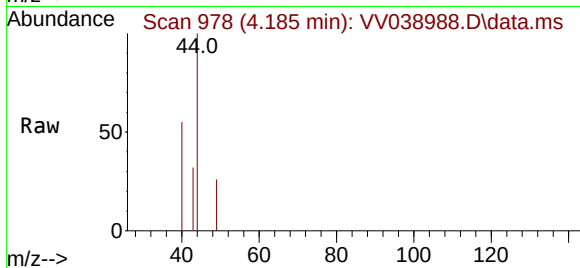
Tgt Ion: 43 Resp: 3821
Ion Ratio Lower Upper
43 100
74 0.0 23.5 35.3#



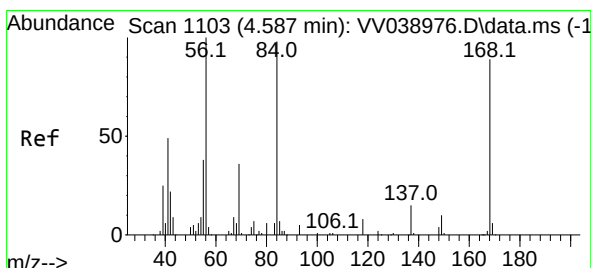
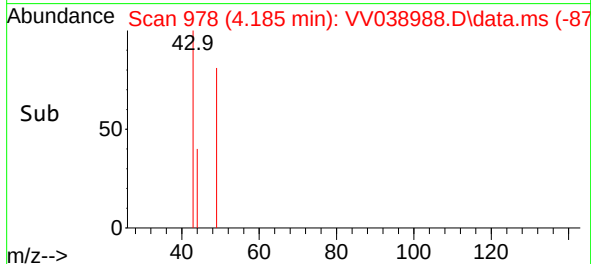
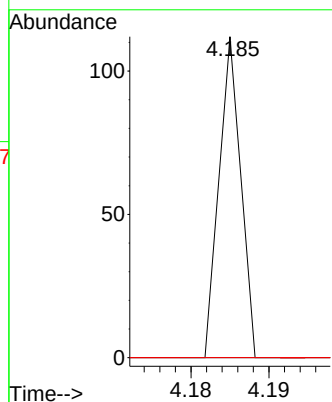


#28
Bromochloromethane
Concen: Below Cal
RT: 4.185 min Scan# 91
Delta R.T. 0.039 min
Lab File: VV038988.D
Acq: 21 Aug 2025 18:14

Instrument :
MSVOA_V
ClientSampleId :

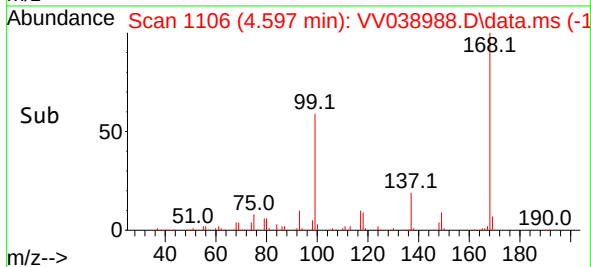
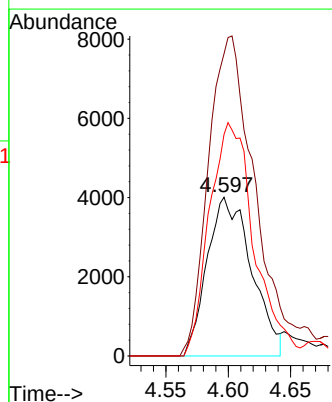
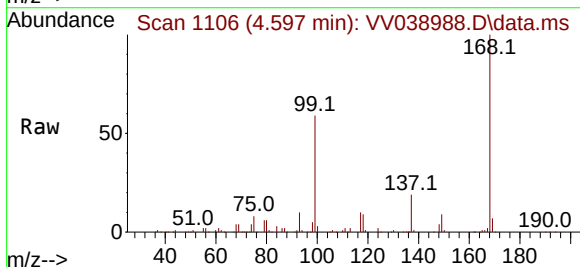


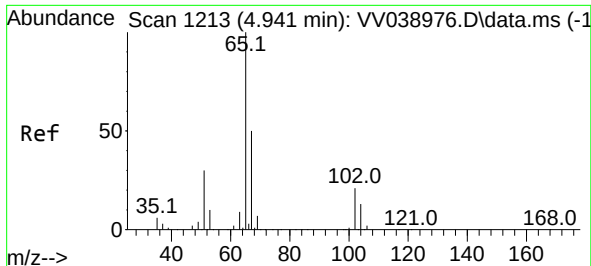
Tgt Ion: 49 Resp: 22
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.2
130 0.0 78.2 117.2#



#31
Cyclohexane
Concen: 0.892 ug/l
RT: 4.597 min Scan# 1106
Delta R.T. 0.010 min
Lab File: VV038988.D
Acq: 21 Aug 2025 18:14

Tgt Ion: 56 Resp: 9958
Ion Ratio Lower Upper
56 100
69 190.5 28.6 42.8#
84 139.7 78.1 117.1#





#33

1,2-Dichloroethane-d4

Concen: 49.536 ug/l

RT: 4.941 min Scan# 1

Delta R.T. -0.000 min

Lab File: VV038988.D

Acq: 21 Aug 2025 18:14

Instrument :

MSVOA_V

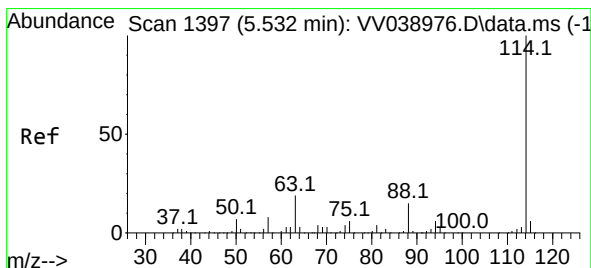
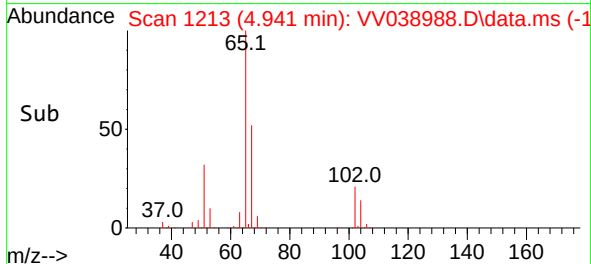
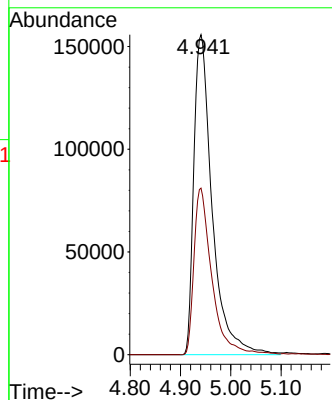
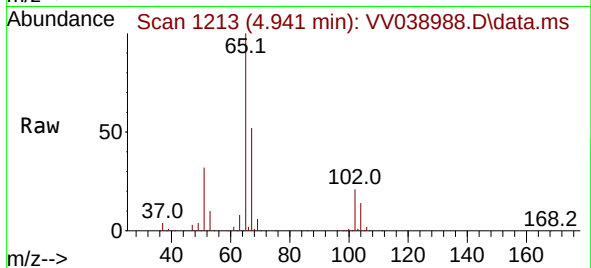
ClientSampleId :

Tgt Ion: 65 Resp: 394780

Ion Ratio Lower Upper

65 100

67 50.7 0.0 100.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. -0.000 min

Lab File: VV038988.D

Acq: 21 Aug 2025 18:14

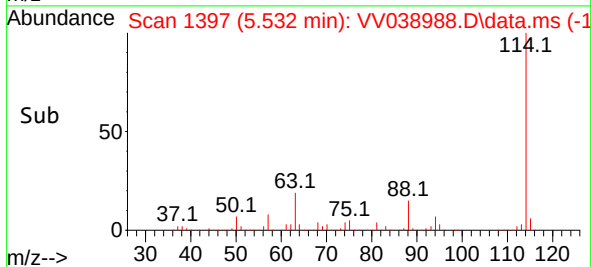
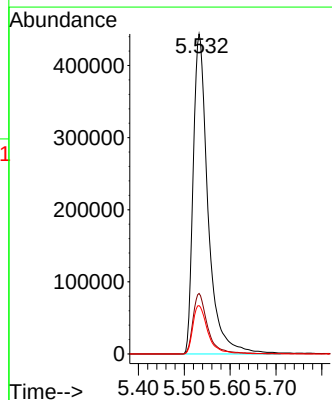
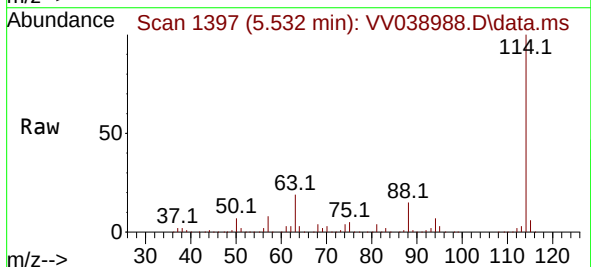
Tgt Ion: 114 Resp: 999329

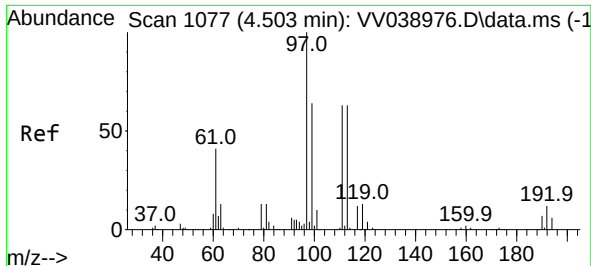
Ion Ratio Lower Upper

114 100

63 18.9 0.0 37.4

88 15.1 0.0 30.4

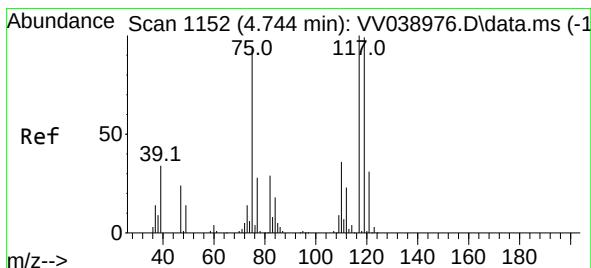
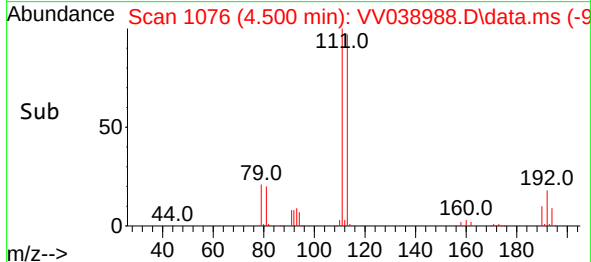
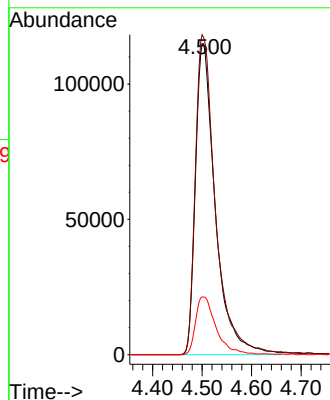
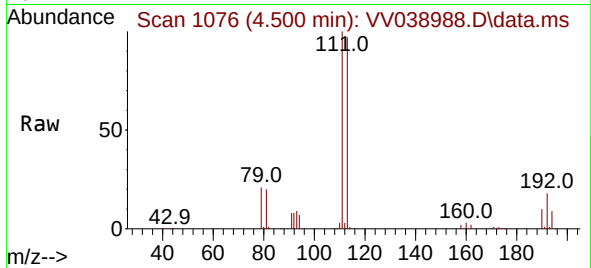




#35
Dibromofluoromethane
Concen: 43.015 ug/l
RT: 4.500 min Scan# 1107
Delta R.T. -0.003 min
Lab File: VV038988.D
Acq: 21 Aug 2025 18:14

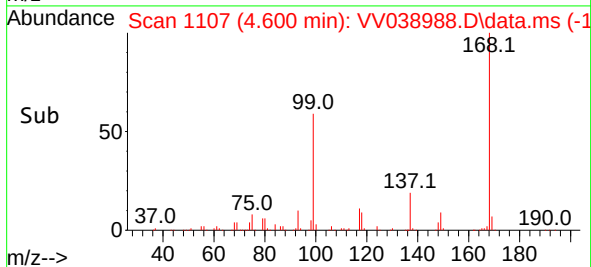
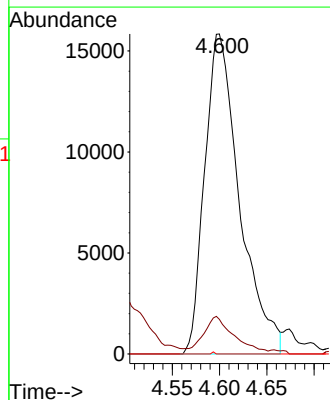
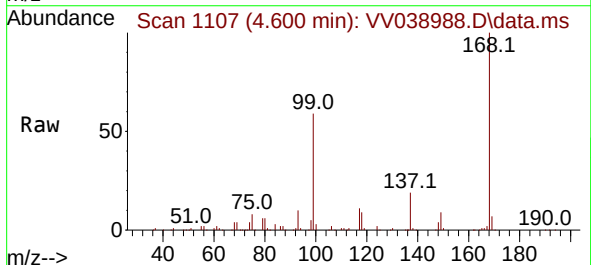
Instrument :
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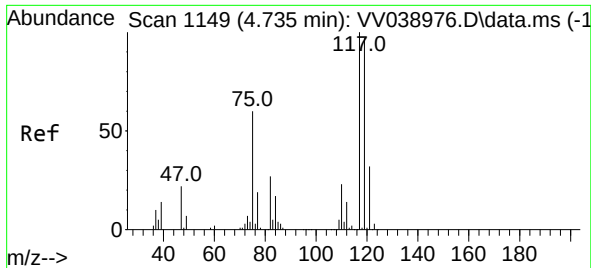
Tgt Ion:113 Resp: 322374
Ion Ratio Lower Upper
113 100
111 103.6 81.3 121.9
192 19.1 15.4 23.0



#36
1,1-Dichloropropene
Concen: 4.173 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.145 min
Lab File: VV038988.D
Acq: 21 Aug 2025 18:14

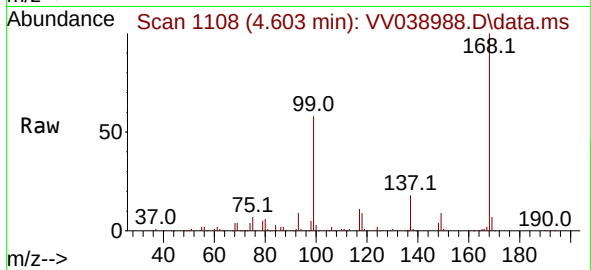
Tgt Ion: 75 Resp: 40617
Ion Ratio Lower Upper
75 100
110 9.0 19.6 58.7#
77 0.0 24.4 36.6#



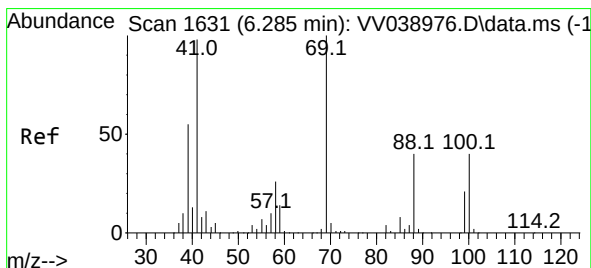
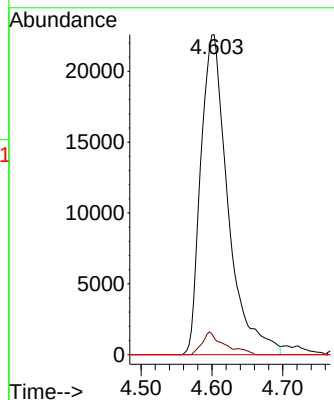
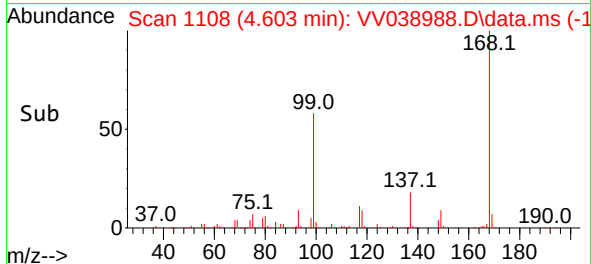


#38
Carbon Tetrachloride
Concen: 4.623 ug/l
RT: 4.603 min Scan# 1149
Delta R.T. -0.132 min
Lab File: VV038988.D
Acq: 21 Aug 2025 18:14

Instrument :
MSVOA_V
ClientSampleId :

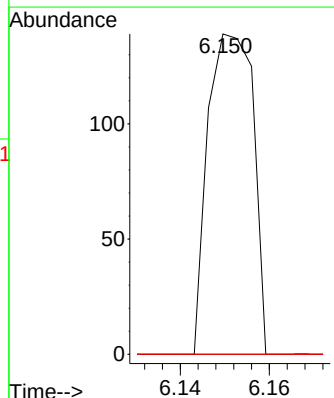
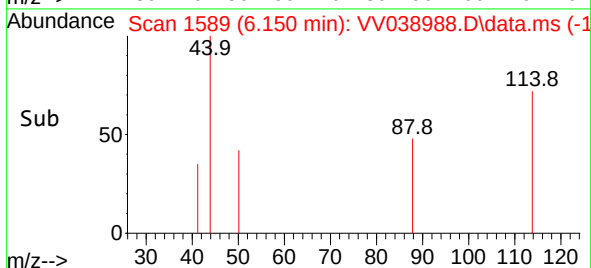
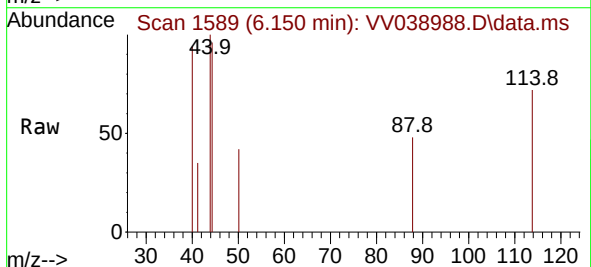


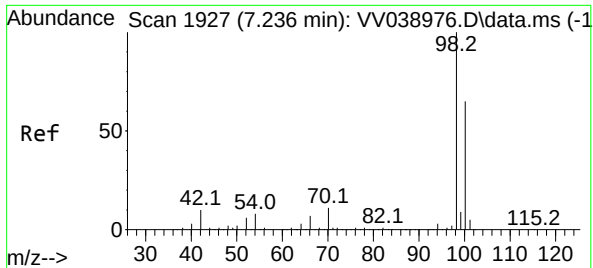
Tgt Ion:117 Resp: 60250
Ion Ratio Lower Upper
117 100
119 5.3 77.1 115.7#
121 0.0 25.4 38.2#



#49
1,4-Dioxane
Concen: 0.901 ug/l
RT: 6.150 min Scan# 1589
Delta R.T. -0.135 min
Lab File: VV038988.D
Acq: 21 Aug 2025 18:14

Tgt Ion: 88 Resp: 98
Ion Ratio Lower Upper
88 100
43 0.0 24.6 36.8#
58 0.0 51.8 77.6#

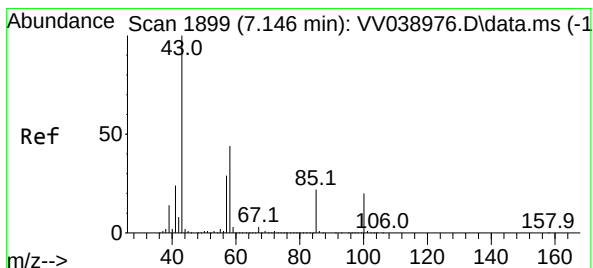
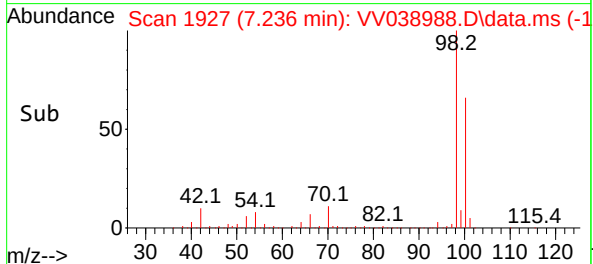
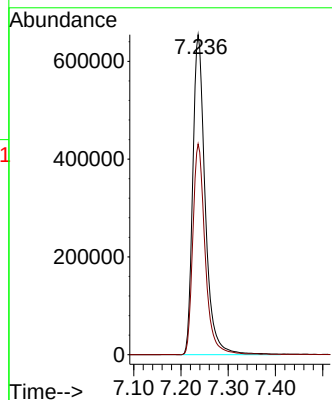
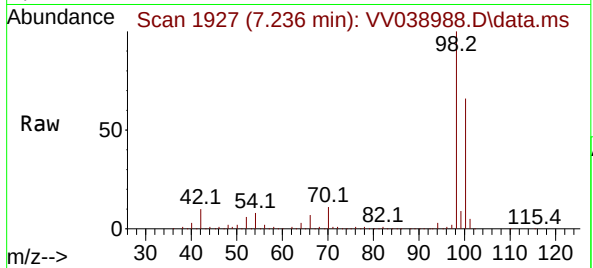




#50
Toluene-d8
Concen: 45.654 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. -0.000 min
Lab File: VV038988.D
Acq: 21 Aug 2025 18:14

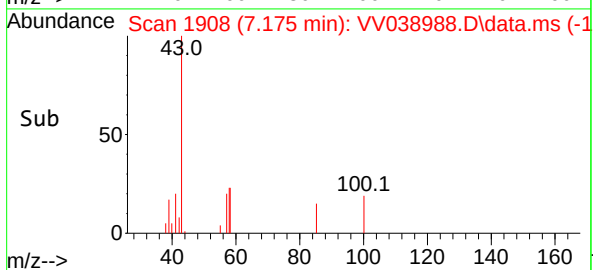
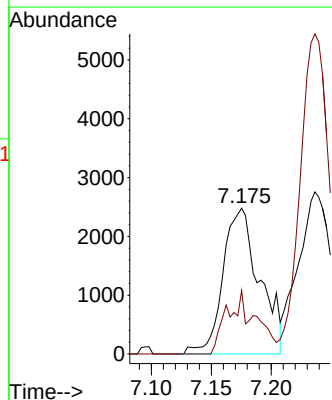
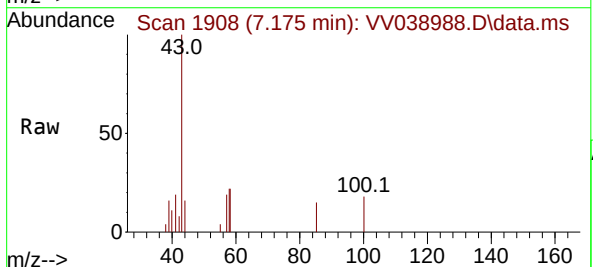
Instrument :
MSVOA_V
ClientSampleId :

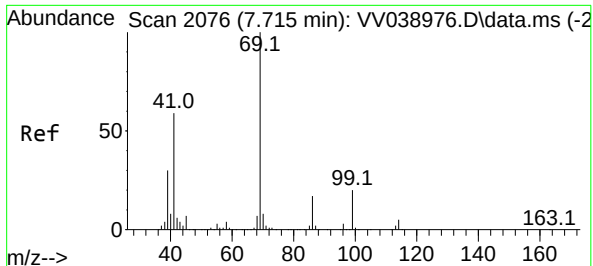
Tgt Ion: 98 Resp: 1193111
Ion Ratio Lower Upper
98 100
100 65.2 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 0.552 ug/l
RT: 7.175 min Scan# 1908
Delta R.T. 0.029 min
Lab File: VV038988.D
Acq: 21 Aug 2025 18:14

Tgt Ion: 43 Resp: 5262
Ion Ratio Lower Upper
43 100
58 9.6 34.6 51.8#





#56

Ethyl methacrylate

Concen: 2.317 ug/l

RT: 7.683 min Scan# 20

Delta R.T. -0.032 min

Lab File: VV038988.D

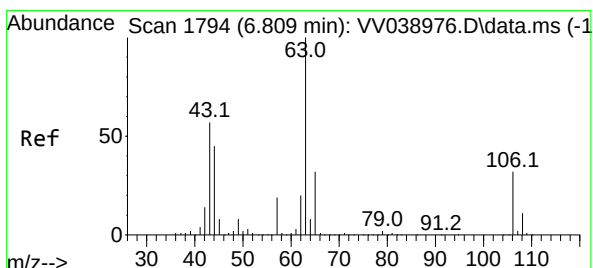
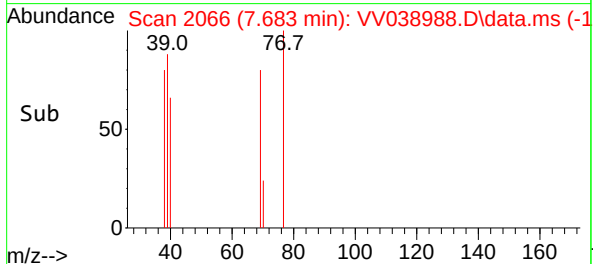
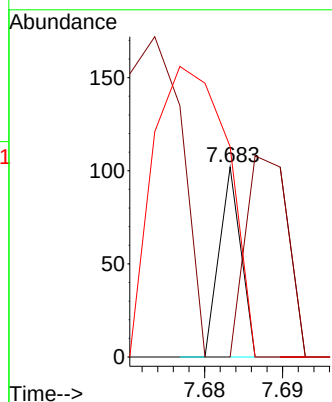
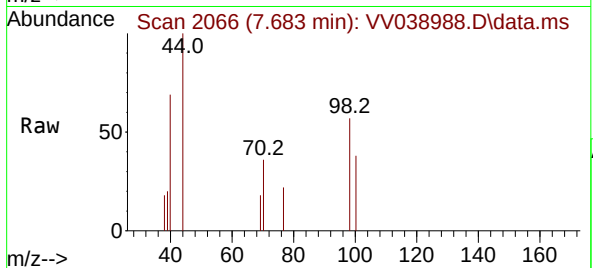
Acq: 21 Aug 2025 18:14

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	69	Resp:	20
Ion	Ratio	Lower	Upper
69	100		
41	200.0	47.5	71.3#
39	0.0	24.2	36.2#



#58

2-Chloroethyl Vinyl ether

Concen: 4.992 ug/l

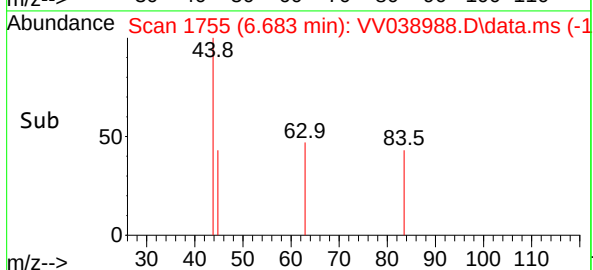
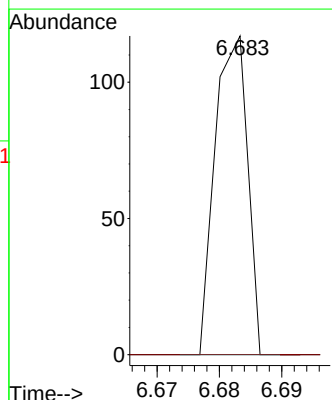
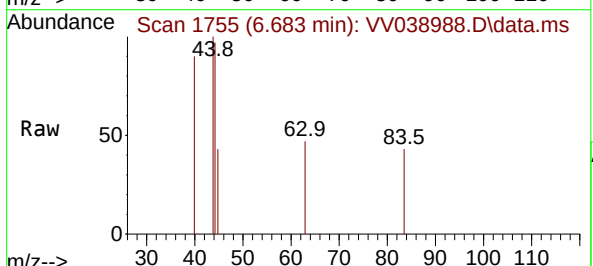
RT: 6.683 min Scan# 1755

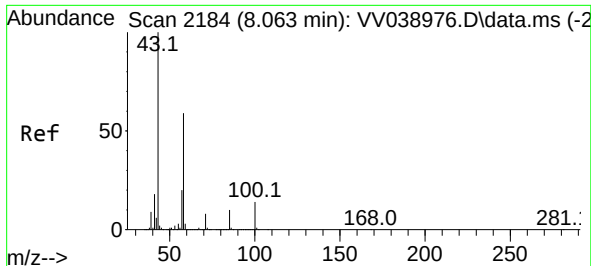
Delta R.T. -0.126 min

Lab File: VV038988.D

Acq: 21 Aug 2025 18:14

Tgt Ion:	63	Resp:	42
Ion	Ratio	Lower	Upper
63	100		
106	0.0	25.6	38.4#

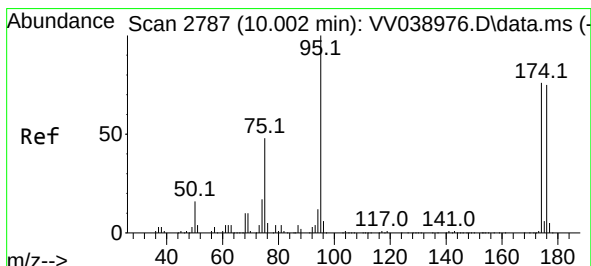
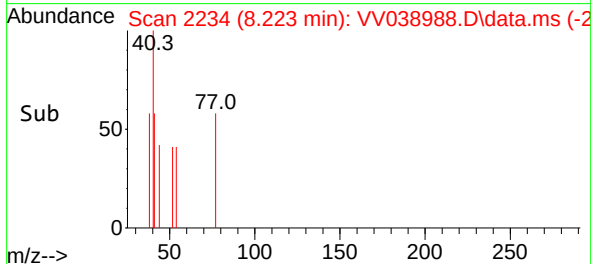
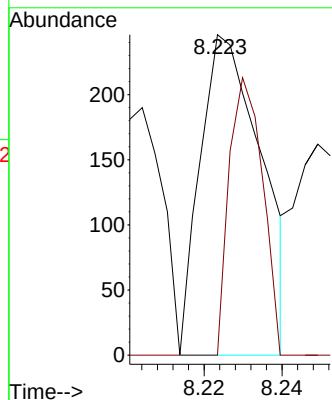
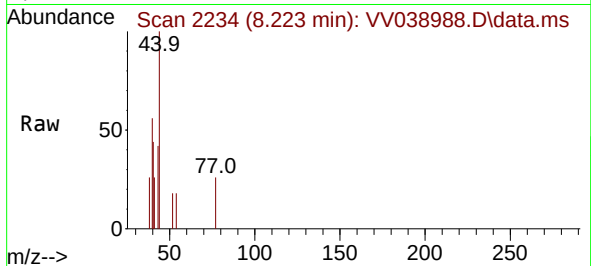




#59
2-Hexanone
Concen: 10.923 ug/l
RT: 8.223 min Scan# 2184
Delta R.T. 0.160 min
Lab File: VV038988.D
Acq: 21 Aug 2025 18:14

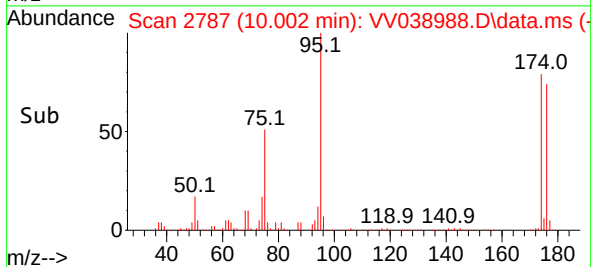
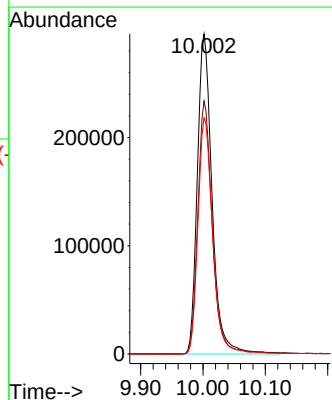
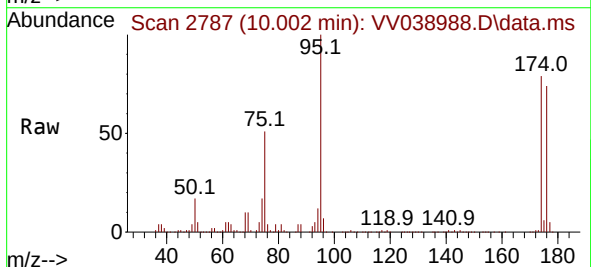
Instrument :
MSVOA_V
ClientSampleId :

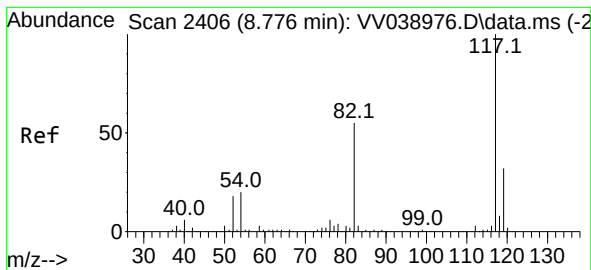
Tgt Ion: 43 Resp: 267
Ion Ratio Lower Upper
43 100
58 47.6 29.8 89.4



#62
4-Bromofluorobenzene
Concen: 50.740 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.000 min
Lab File: VV038988.D
Acq: 21 Aug 2025 18:14

Tgt Ion: 95 Resp: 485086
Ion Ratio Lower Upper
95 100
174 77.9 0.0 154.4
176 73.4 0.0 148.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 24

Delta R.T. 0.000 min

Lab File: VV038988.D

Acq: 21 Aug 2025 18:14

Instrument :

MSVOA_V

ClientSampleId :

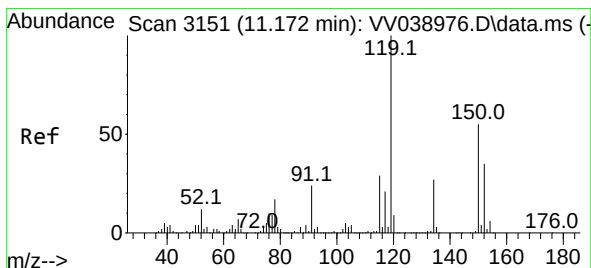
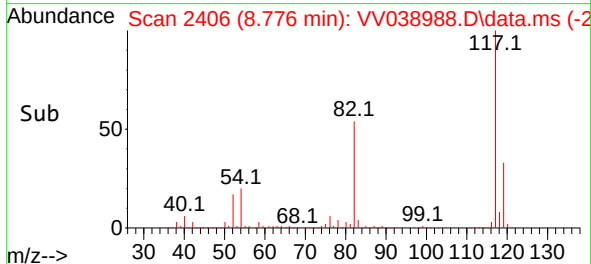
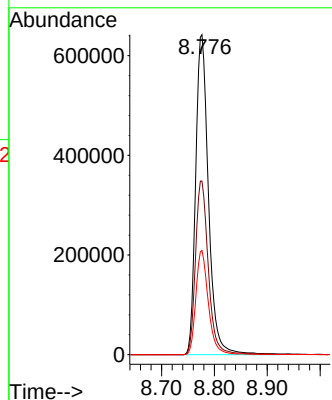
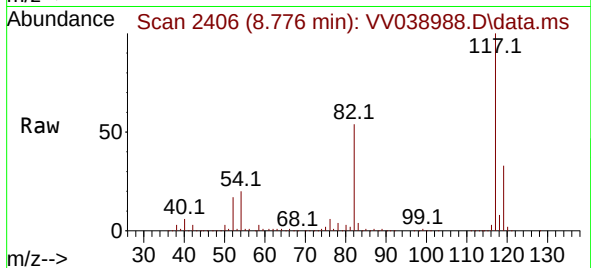
Tgt Ion:117 Resp: 1081937

Ion Ratio Lower Upper

117 100

82 54.3 44.4 66.6

119 32.5 26.0 39.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 3152

Delta R.T. 0.003 min

Lab File: VV038988.D

Acq: 21 Aug 2025 18:14

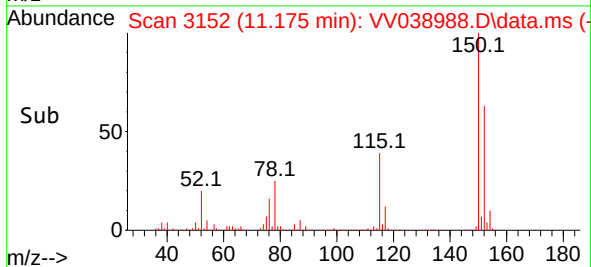
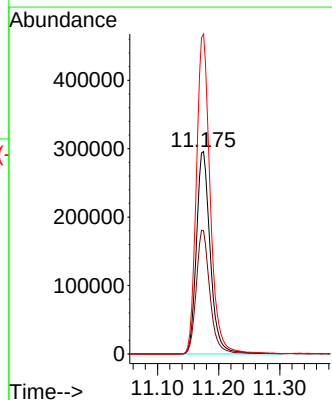
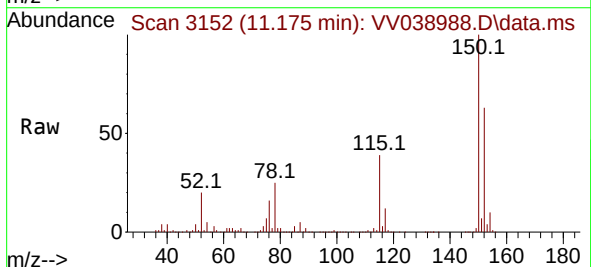
Tgt Ion:152 Resp: 465817

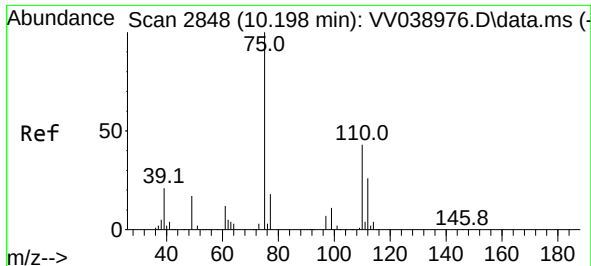
Ion Ratio Lower Upper

152 100

115 60.3 42.5 127.5

150 158.0 0.0 344.8

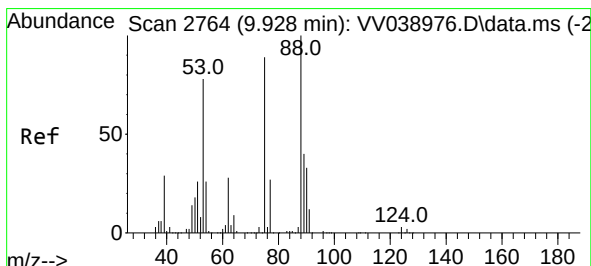
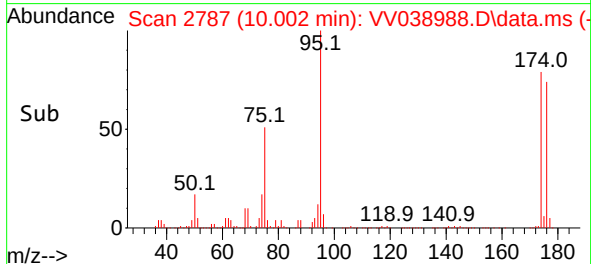
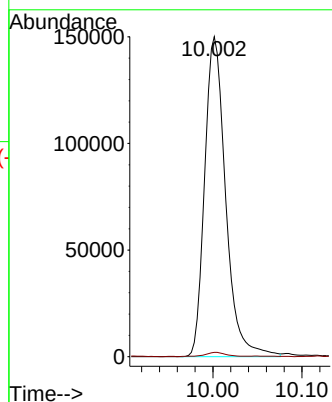
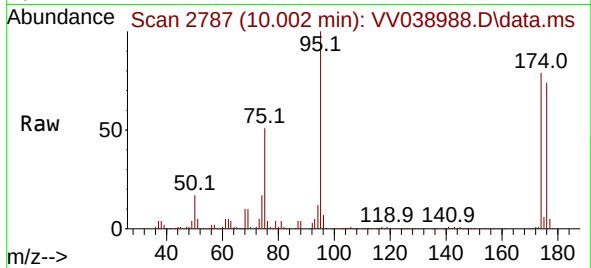




#76
1,2,3-Trichloropropane
Concen: 28.472 ug/l
RT: 10.002 min Scan# 21
Delta R.T. -0.196 min
Lab File: VV038988.D
Acq: 21 Aug 2025 18:14

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 75 Resp: 246006
Ion Ratio Lower Upper
75 100
77 1.5 11.3 33.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 65.368 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.074 min
Lab File: VV038988.D
Acq: 21 Aug 2025 18:14

Tgt Ion: 75 Resp: 246006
Ion Ratio Lower Upper
75 100
53 0.3 70.3 105.5#
89 0.0 37.9 56.9#

