

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
 Data File : VV039173.D
 Acq On : 25 Sep 2025 12:10
 Operator : SY/MD
 Sample : Q3164-02
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 DA-2

Quant Time: Sep 26 01:24:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

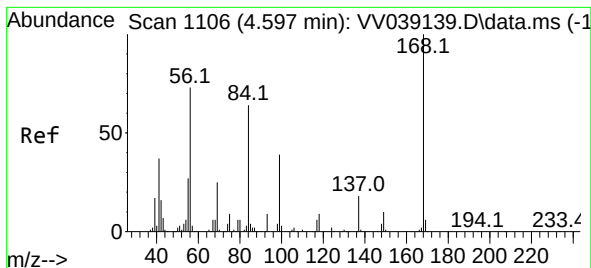
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.603	168	514758	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	932817	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	926008	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	438853	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	419629	56.325	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 112.660%			
35) Dibromofluoromethane	4.503	113	386984	51.604	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 103.200%			
50) Toluene-d8	7.240	98	1048304	47.596	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 95.200%			
62) 4-Bromofluorobenzene	10.001	95	406703	44.855	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 89.720%			
Target Compounds					Qvalue	
5) Bromomethane	1.510	94	1282	0.217	ug/l	95
6) Chloroethane	1.558	64	1173	Below Cal	#	57
10) Methyl Iodide	2.208	142	3113	0.405	ug/l #	71
11) Tert butyl alcohol	2.574	59	22798	14.479	ug/l	95
13) Acrolein	2.018	56	917	3.356	ug/l #	33
15) Acrylonitrile	2.680	53	3075	0.609	ug/l #	75
16) Acetone	2.124	43	108214	18.172	ug/l	99
17) Carbon Disulfide	2.259	76	6286	0.265	ug/l	97
18) Methyl Acetate	2.230	43	9207	0.834	ug/l #	58
20) Methylene Chloride	2.462	84	1365	Below Cal	#	75
31) Cyclohexane	4.603	56	13193	0.993	ug/l #	1
36) 1,1-Dichloropropene	4.597	75	46453	4.097	ug/l #	50
37) Ethyl Acetate	3.934	43	2974	0.216	ug/l #	82
38) Carbon Tetrachloride	4.600	117	56512	4.078	ug/l #	17
41) Methacrylonitrile	4.137	41	615	2.006	ug/l #	41
51) 4-Methyl-2-Pentanone	7.169	43	16756	1.358	ug/l	91
58) 2-Chloroethyl Vinyl ether	6.825	63	79	9.635	ug/l #	44
59) 2-Hexanone	7.966	43	89	2.334	ug/l	96
65) Chlorobenzene	8.805	112	5564	0.216	ug/l	96
70) Styrene	9.522	104	307	1.572	ug/l #	26
71) Bromoform	9.664	173	2232	0.307	ug/l #	96
76) 1,2,3-Trichloropropane	10.001	75	196921	19.708	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	196921	47.313	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.355	75	72	Below Cal	#	5
94) Hexachlorobutadiene	13.371	225	969	0.208	ug/l	81

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
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Response via : Initial Calibration

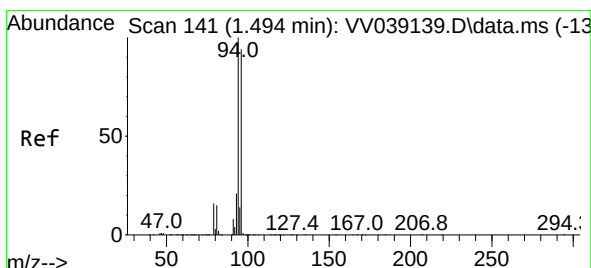
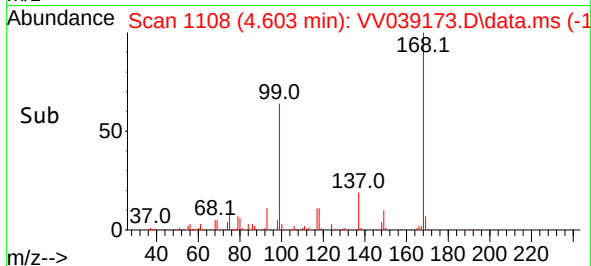
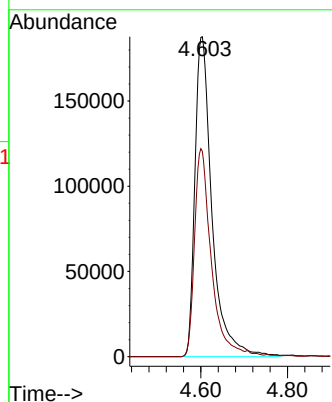
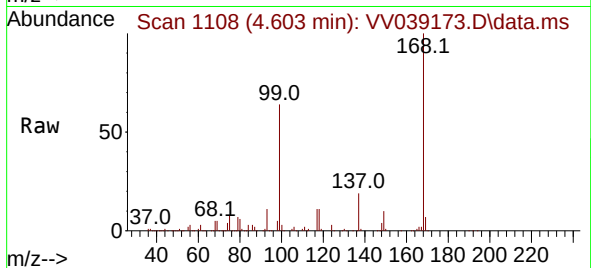




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

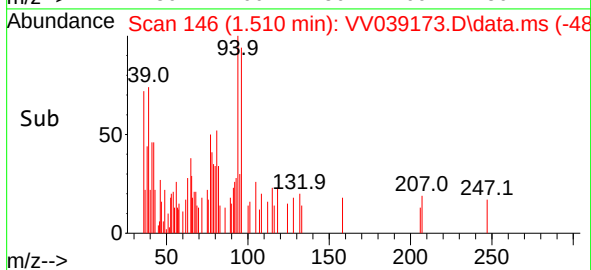
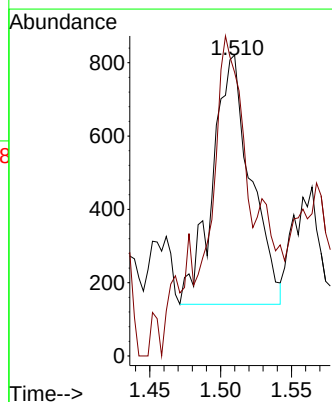
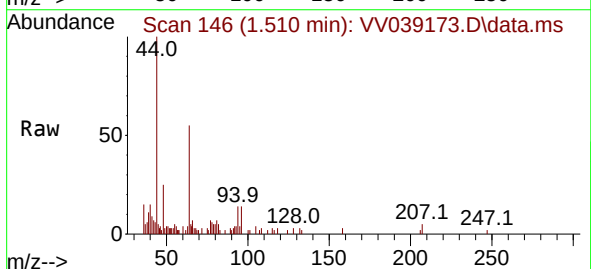
Instrument :
MSVOA_V
ClientSampleId :
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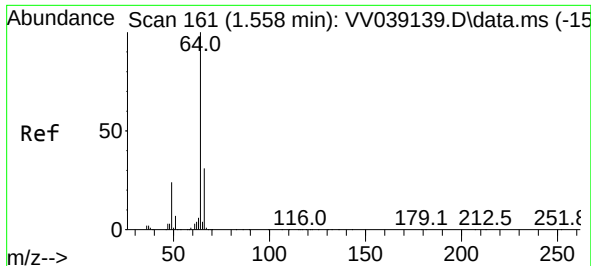
Tgt Ion:168 Resp: 514758
Ion Ratio Lower Upper
168 100
99 64.2 49.6 74.4



#5
Bromomethane
Concen: 0.217 ug/l
RT: 1.510 min Scan# 146
Delta R.T. 0.016 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

Tgt Ion: 94 Resp: 1282
Ion Ratio Lower Upper
94 100
96 88.5 74.9 112.3

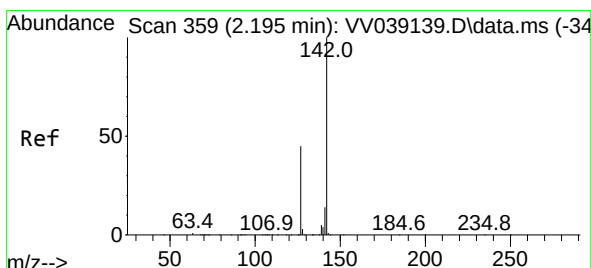
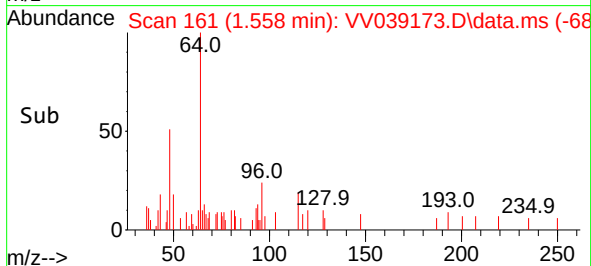
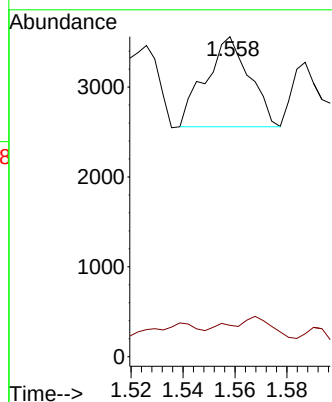
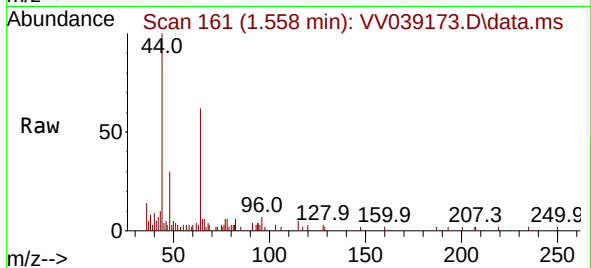




#6
Chloroethane
Concen: Below Cal
RT: 1.558 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

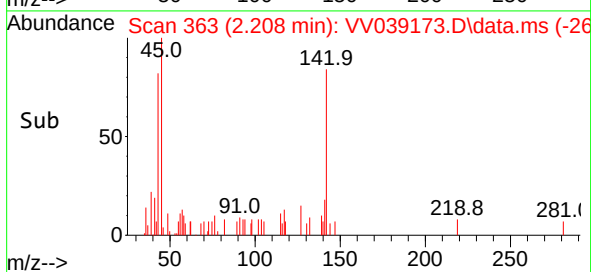
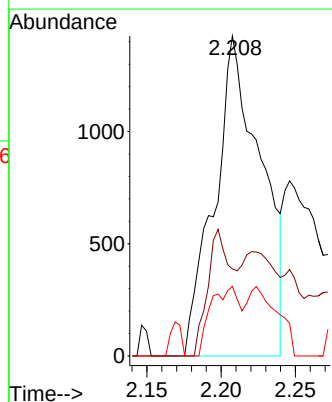
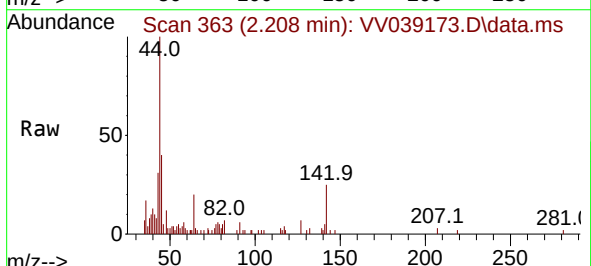
Instrument :
MSVOA_V
ClientSampleId :
DA-2

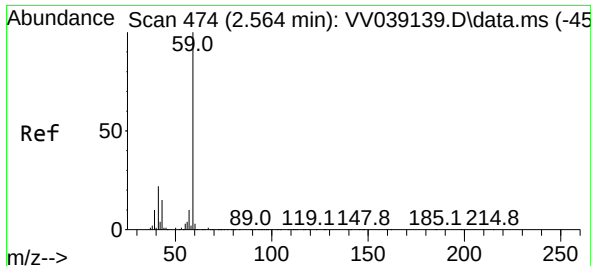
Tgt Ion: 64 Resp: 1173
Ion Ratio Lower Upper
64 100
66 7.4 24.6 36.8#



#10
Methyl Iodide
Concen: 0.405 ug/l
RT: 2.208 min Scan# 363
Delta R.T. 0.013 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

Tgt Ion:142 Resp: 3113
Ion Ratio Lower Upper
142 100
127 20.9 36.3 54.5#
141 13.5 11.2 16.8





#11

Tert butyl alcohol

Concen: 14.479 ug/l

RT: 2.574 min Scan# 41

Delta R.T. 0.010 min

Lab File: VV039173.D

Acq: 25 Sep 2025 12:10

Instrument :

MSVOA_V

ClientSampleId :

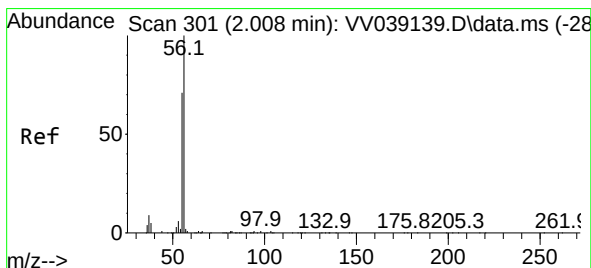
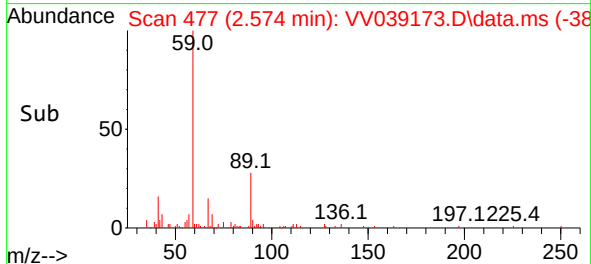
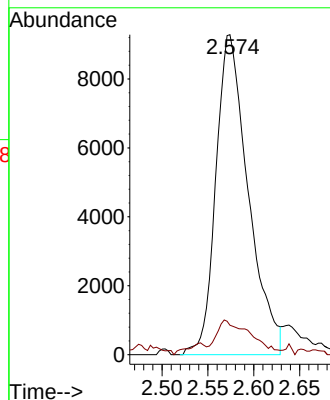
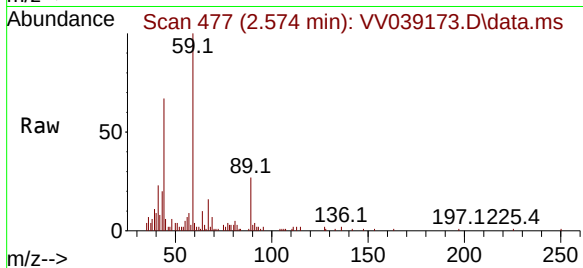
DA-2

Tgt Ion: 59 Resp: 22798

Ion Ratio Lower Upper

59 100

57 11.5 7.8 11.8



#13

Acrolein

Concen: 3.356 ug/l

RT: 2.018 min Scan# 304

Delta R.T. 0.010 min

Lab File: VV039173.D

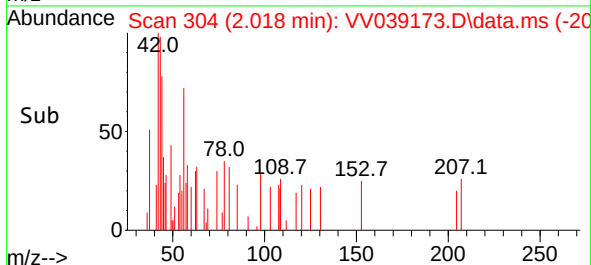
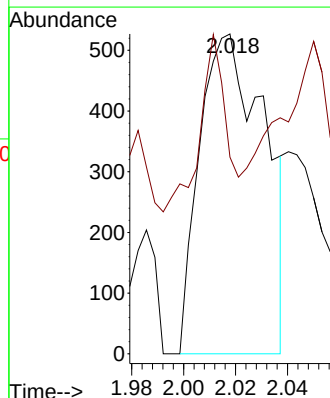
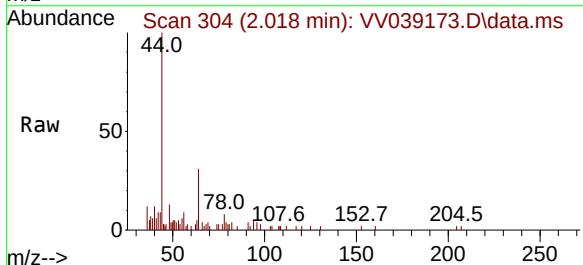
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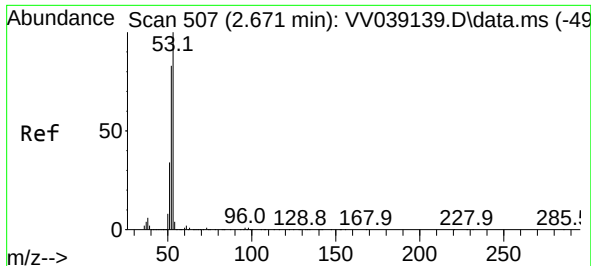
Tgt Ion: 56 Resp: 917

Ion Ratio Lower Upper

56 100

55 15.3 56.2 84.4#

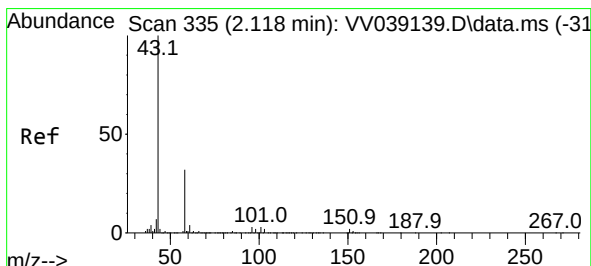
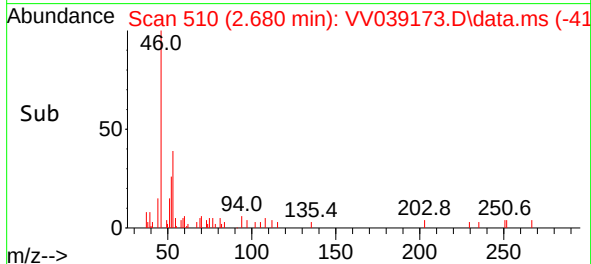
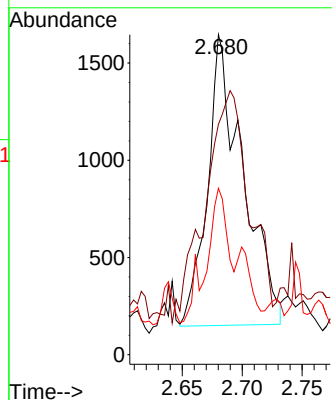
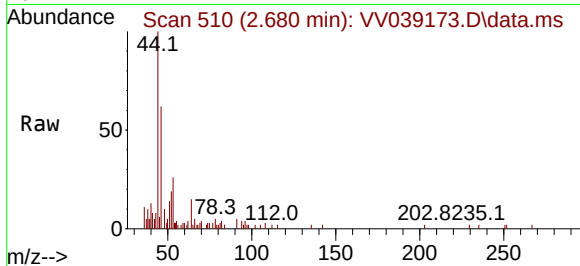




#15
Acrylonitrile
Concen: 0.609 ug/l
RT: 2.680 min Scan# 51
Delta R.T. 0.010 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

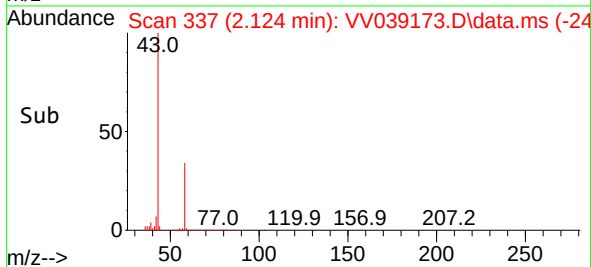
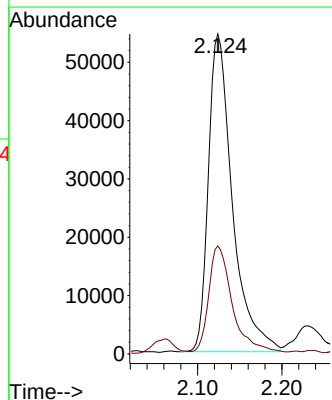
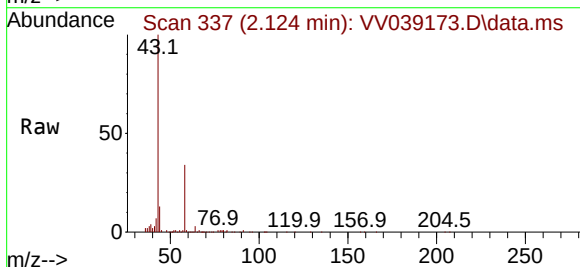
Instrument :
MSVOA_V
ClientSampleId :
DA-2

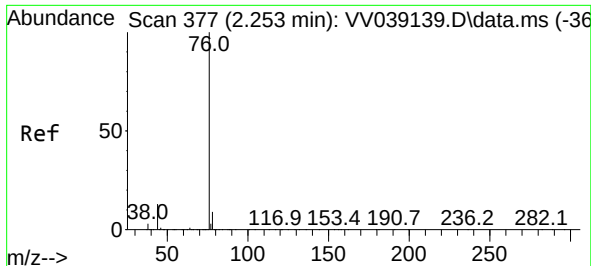
Tgt Ion: 53 Resp: 3075
Ion Ratio Lower Upper
53 100
52 100.1 66.1 99.1#
51 12.7 28.5 42.7#



#16
Acetone
Concen: 18.172 ug/l
RT: 2.124 min Scan# 337
Delta R.T. 0.006 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

Tgt Ion: 43 Resp: 108214
Ion Ratio Lower Upper
43 100
58 33.0 25.8 38.6

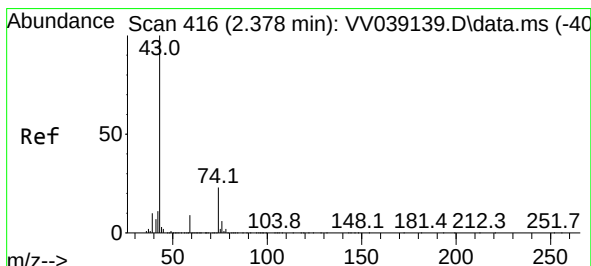
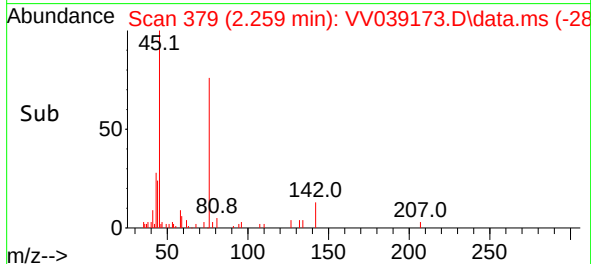
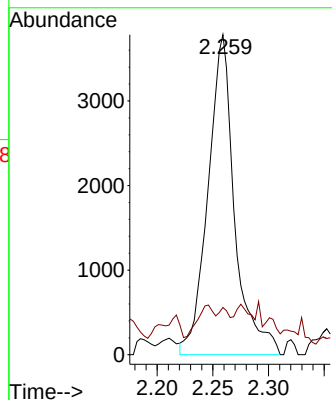
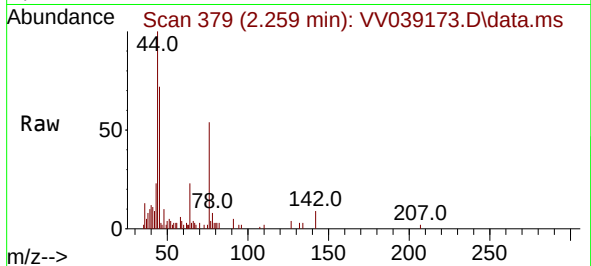




#17
Carbon Disulfide
Concen: 0.265 ug/l
RT: 2.259 min Scan# 31
Delta R.T. 0.006 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

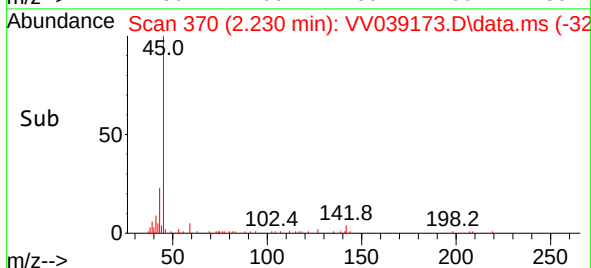
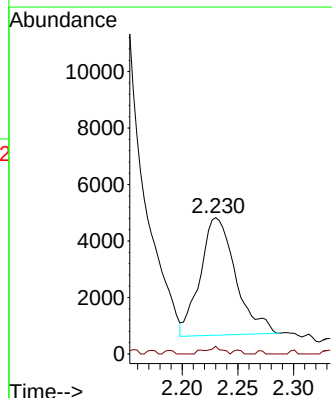
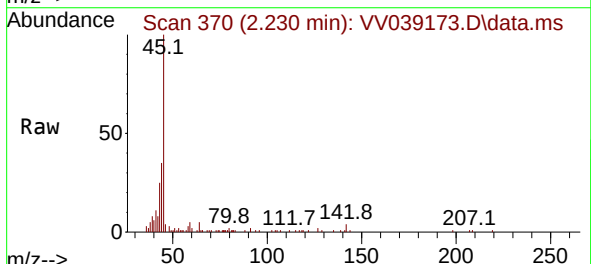
Instrument :
MSVOA_V
ClientSampleId :
DA-2

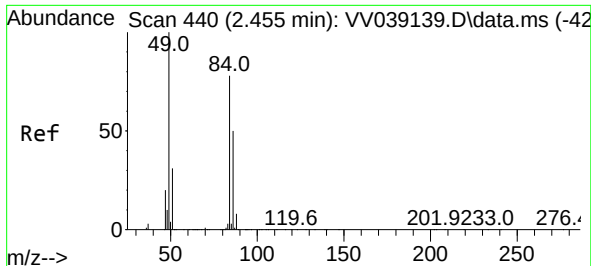
Tgt Ion: 76 Resp: 6286
Ion Ratio Lower Upper
76 100
78 8.2 7.4 11.0



#18
Methyl Acetate
Concen: 0.834 ug/l
RT: 2.230 min Scan# 370
Delta R.T. -0.148 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

Tgt Ion: 43 Resp: 9207
Ion Ratio Lower Upper
43 100
74 2.9 18.6 27.8#

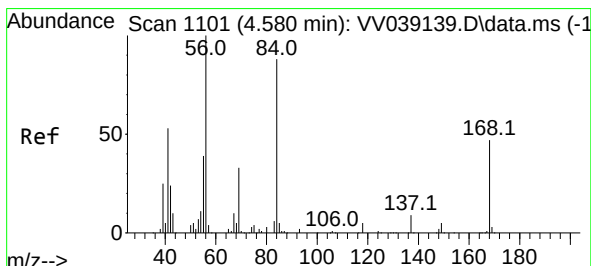
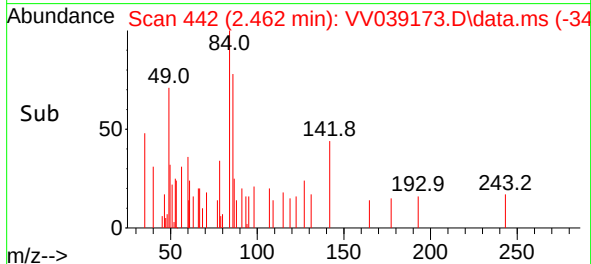
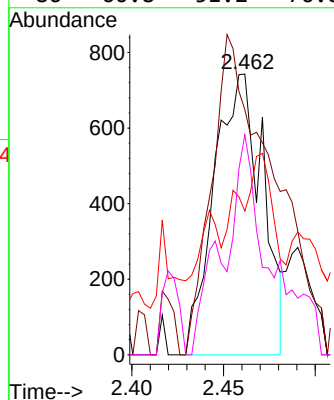
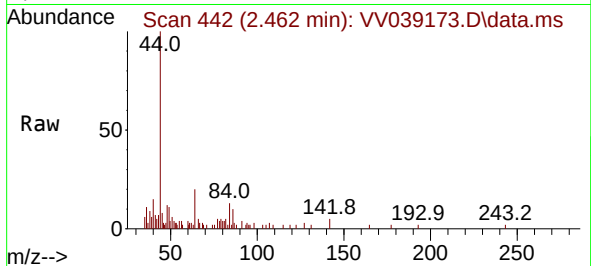




#20
Methylene Chloride
Concen: Below Cal
RT: 2.462 min Scan# 440
Delta R.T. 0.007 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

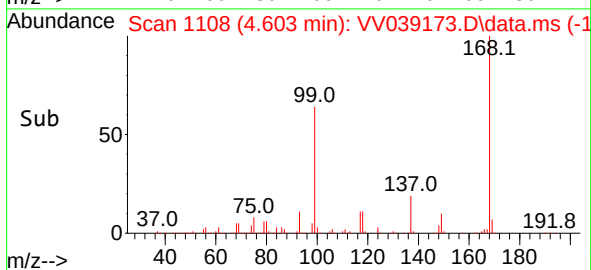
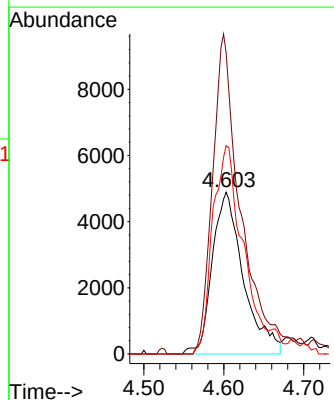
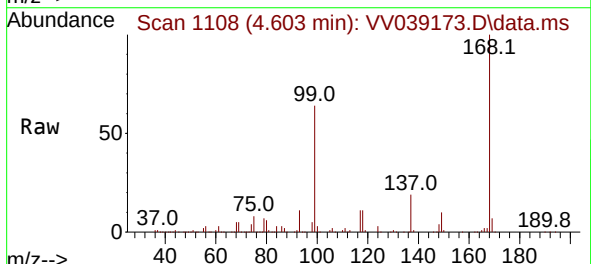
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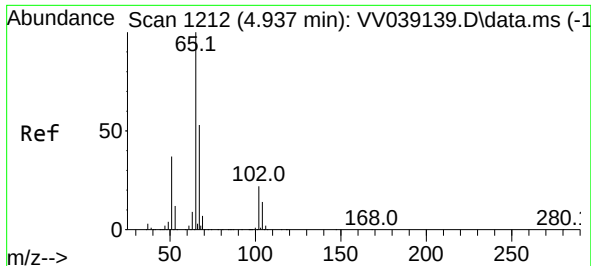
Tgt Ion:	84	Resp:	1365
Ion	Ratio	Lower	Upper
84	100		
49	87.3	102.8	154.2#
51	24.4	31.9	47.9#
86	60.8	51.2	76.8



#31
Cyclohexane
Concen: 0.993 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.023 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

Tgt Ion:	56	Resp:	13193
Ion	Ratio	Lower	Upper
56	100		
69	186.2	26.2	39.2#
84	128.7	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 56.325 ug/l

RT: 4.944 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039173.D

Acq: 25 Sep 2025 12:10

Instrument :

MSVOA_V

ClientSampleId :

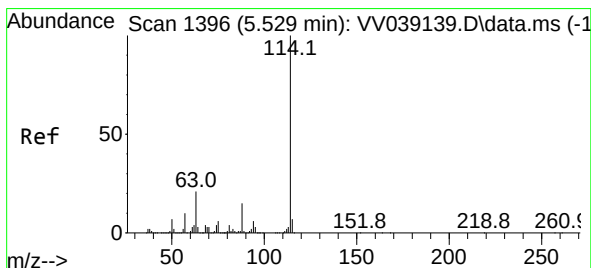
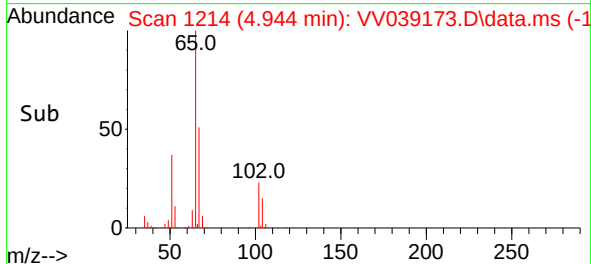
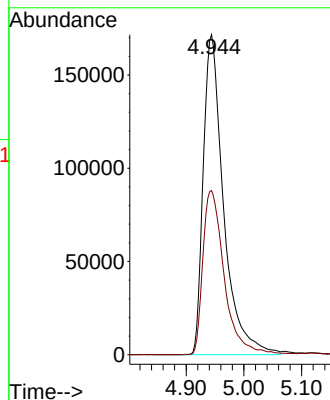
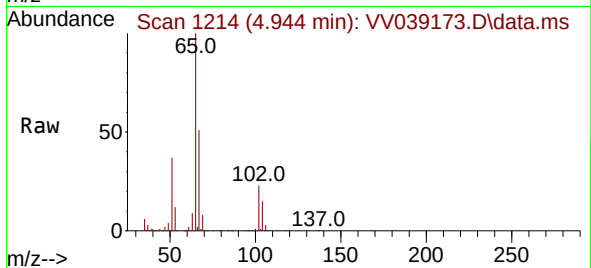
DA-2

Tgt Ion: 65 Resp: 419629

Ion Ratio Lower Upper

65 100

67 54.1 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VV039173.D

Acq: 25 Sep 2025 12:10

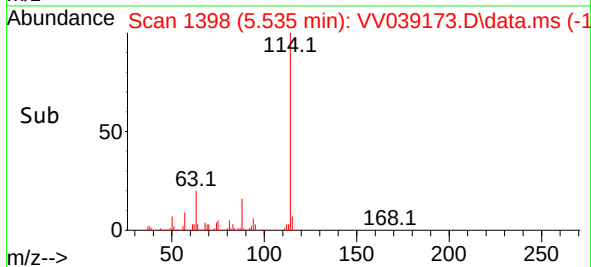
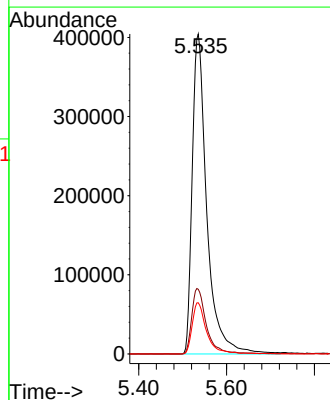
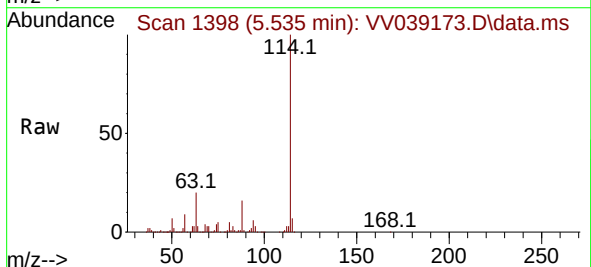
Tgt Ion: 114 Resp: 932817

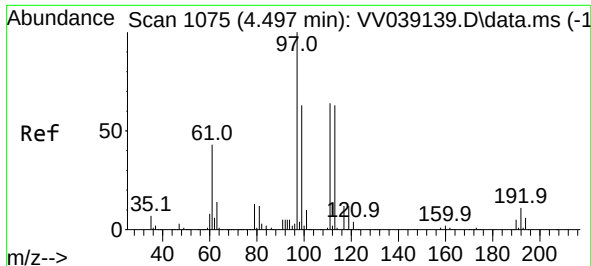
Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.6

88 16.0 0.0 30.8

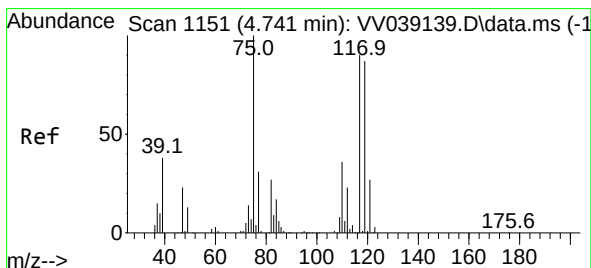
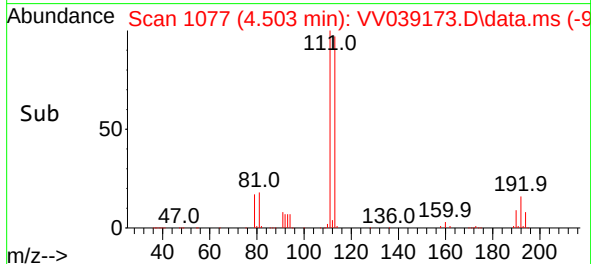
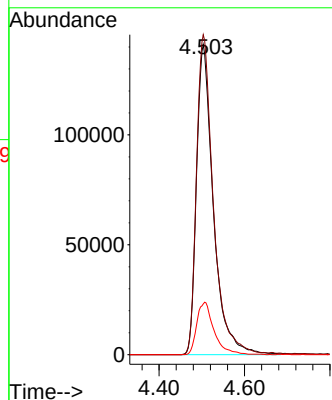
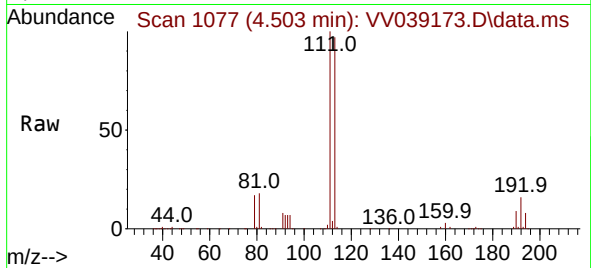




#35
 Dibromofluoromethane
 Concen: 51.604 ug/l
 RT: 4.503 min Scan# 1106
 Delta R.T. 0.006 min
 Lab File: VV039173.D
 Acq: 25 Sep 2025 12:10

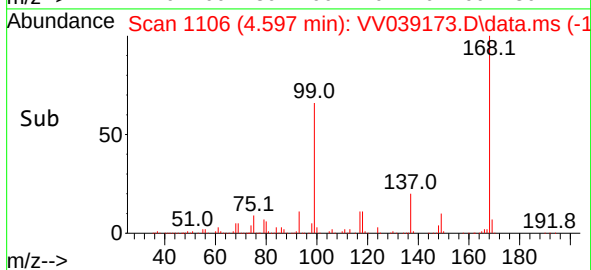
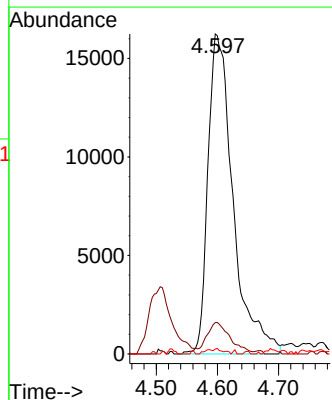
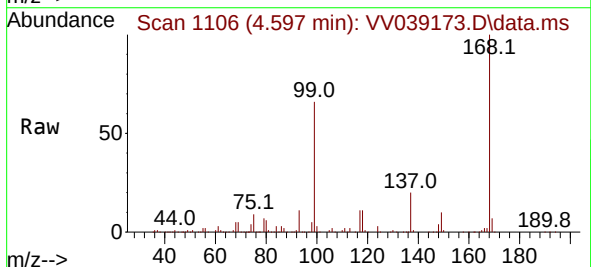
Instrument :
 MSVOA_V
 ClientSampleId :
 DA-2

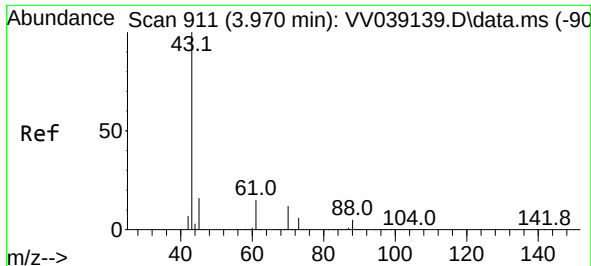
Tgt Ion:113 Resp: 386984
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.4 123.6
 192 17.3 13.8 20.8



#36
 1,1-Dichloropropene
 Concen: 4.097 ug/l
 RT: 4.597 min Scan# 1106
 Delta R.T. -0.144 min
 Lab File: VV039173.D
 Acq: 25 Sep 2025 12:10

Tgt Ion: 75 Resp: 46453
 Ion Ratio Lower Upper
 75 100
 110 9.2 18.1 54.1#
 77 0.6 24.8 37.2#

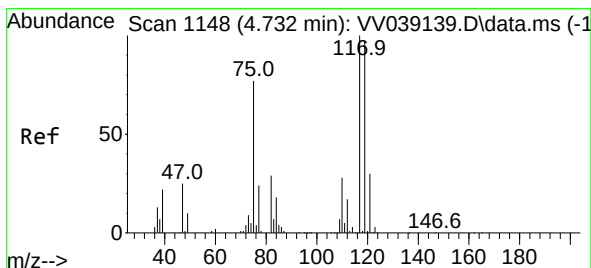
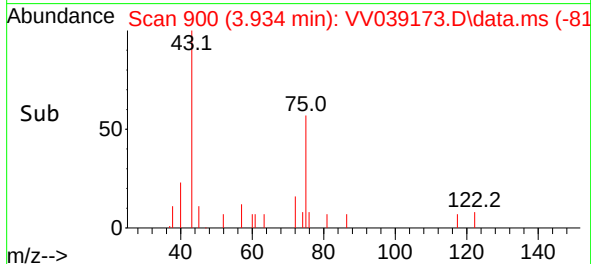
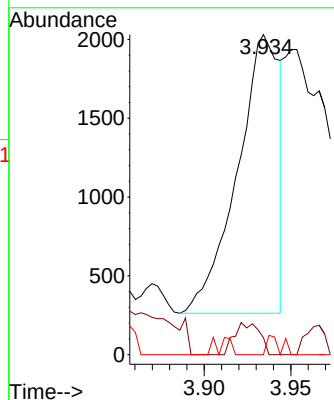
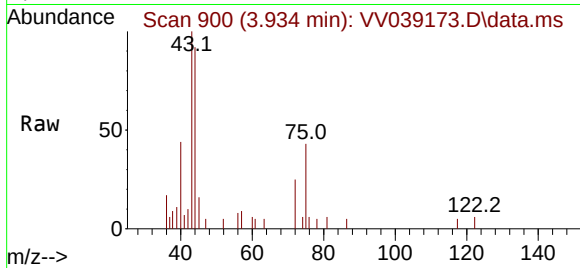




#37
Ethyl Acetate
Concen: 0.216 ug/l
RT: 3.934 min Scan# 911
Delta R.T. -0.036 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

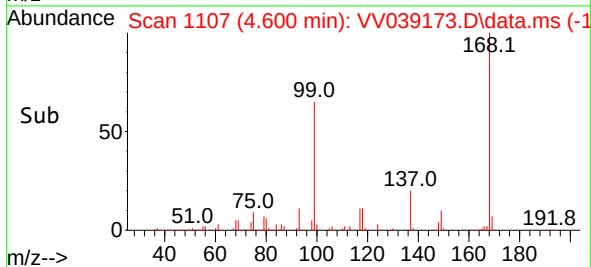
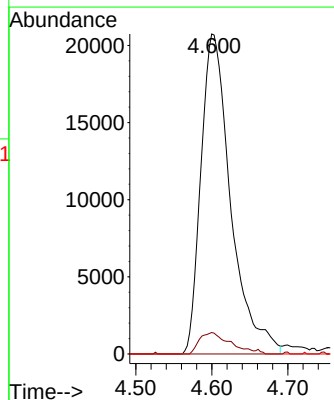
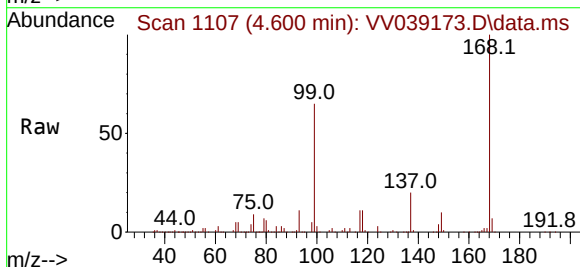
Instrument :
MSVOA_V
ClientSampleId :
DA-2

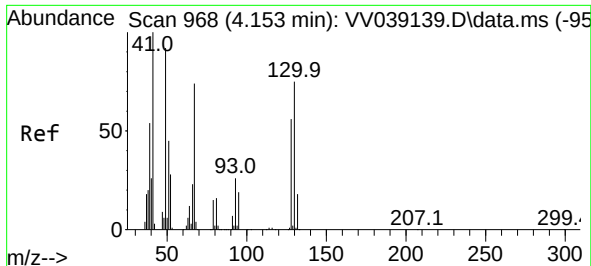
Tgt Ion: 43 Resp: 2974
Ion Ratio Lower Upper
43 100
61 6.9 10.3 15.5#
70 2.2 8.0 12.0#



#38
Carbon Tetrachloride
Concen: 4.078 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.132 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

Tgt Ion: 117 Resp: 56512
Ion Ratio Lower Upper
117 100
119 6.7 77.2 115.8#
121 0.0 24.2 36.2#

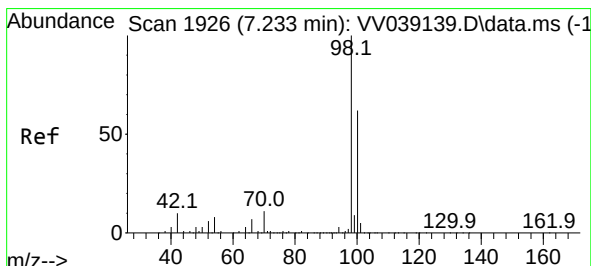
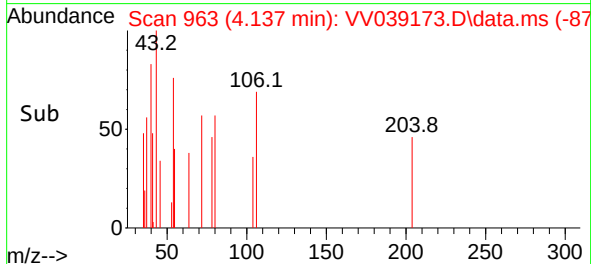
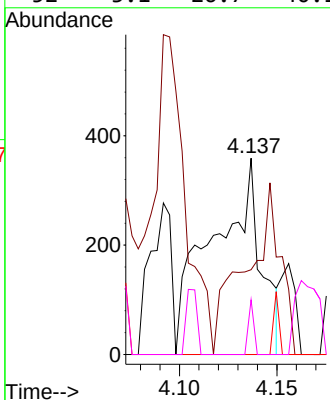
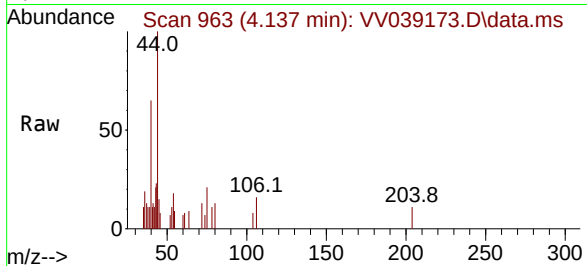




#41
Methacrylonitrile
Concen: 2.006 ug/l
RT: 4.137 min Scan# 90
Delta R.T. -0.016 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

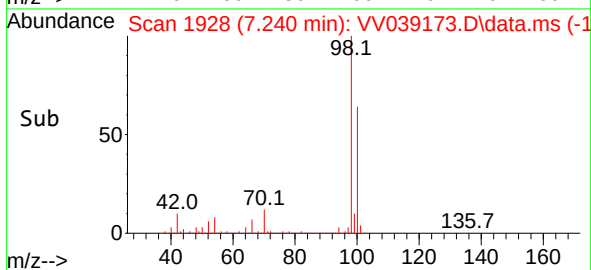
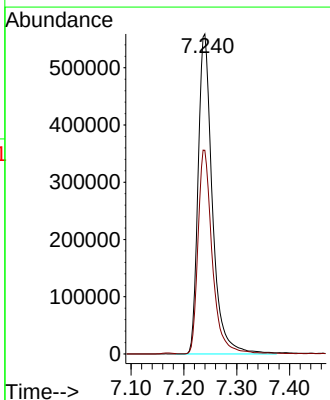
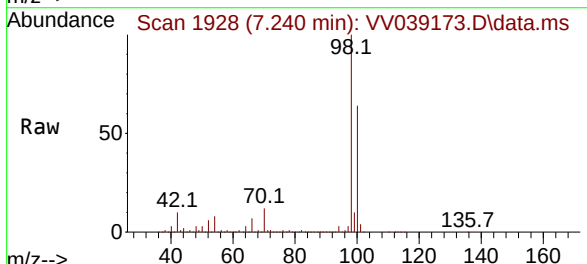
Instrument :
MSVOA_V
ClientSampleId :
DA-2

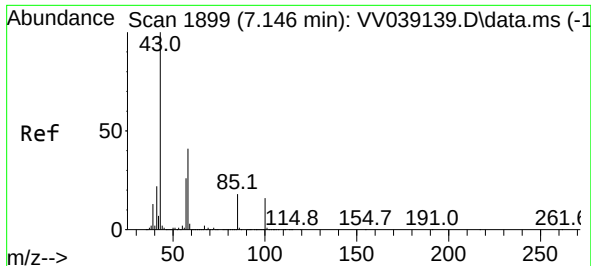
Tgt Ion:	41	Resp:	615
Ion	Ratio	Lower	Upper
41	100		
39	62.6	42.2	63.2
67	3.6	67.9	101.9#
52	3.1	26.7	40.1#



#50
Toluene-d8
Concen: 47.596 ug/l
RT: 7.240 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

Tgt Ion:	98	Resp:	1048304
Ion	Ratio	Lower	Upper
98	100		
100	63.4	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 1.358 ug/l

RT: 7.169 min Scan# 1899

Delta R.T. 0.023 min

Lab File: VV039173.D

Acq: 25 Sep 2025 12:10

Instrument :

MSVOA_V

ClientSampleId :

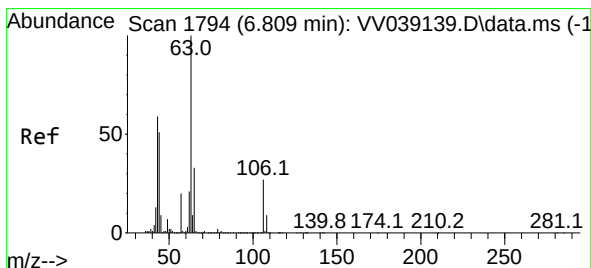
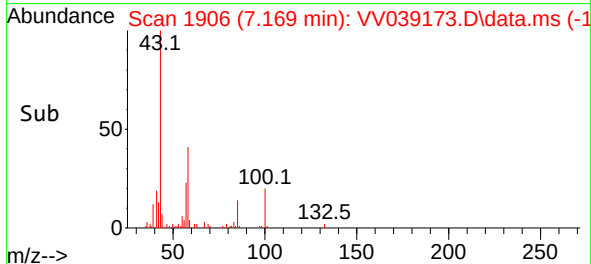
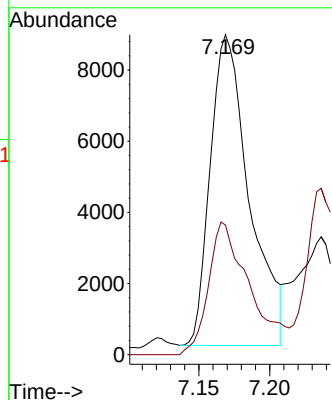
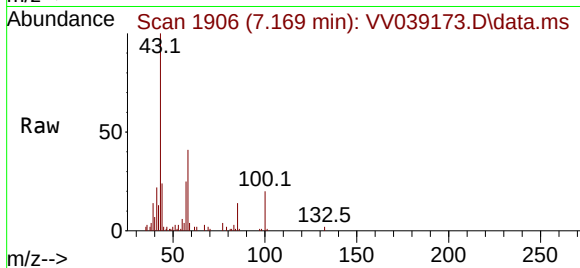
DA-2

Tgt Ion: 43 Resp: 16756

Ion Ratio Lower Upper

43 100

58 45.8 32.3 48.5



#58

2-Chloroethyl Vinyl ether

Concen: 9.635 ug/l

RT: 6.825 min Scan# 1799

Delta R.T. 0.016 min

Lab File: VV039173.D

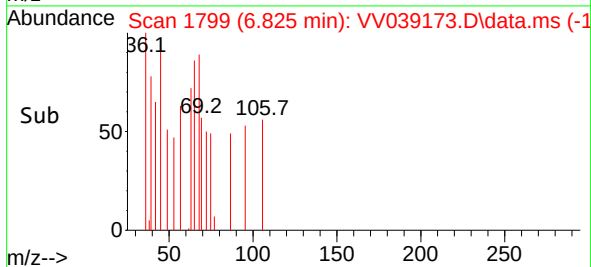
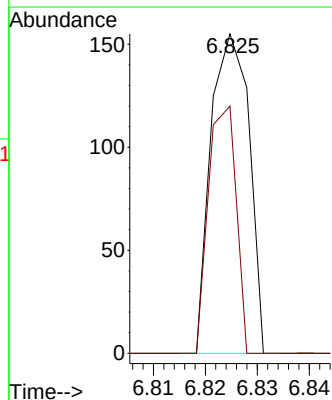
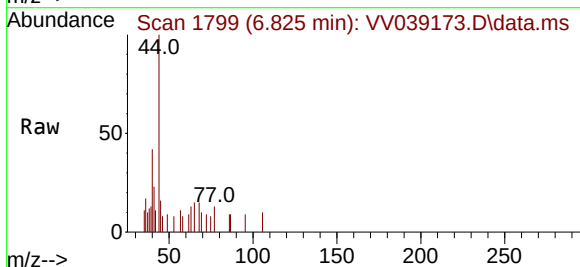
Acq: 25 Sep 2025 12:10

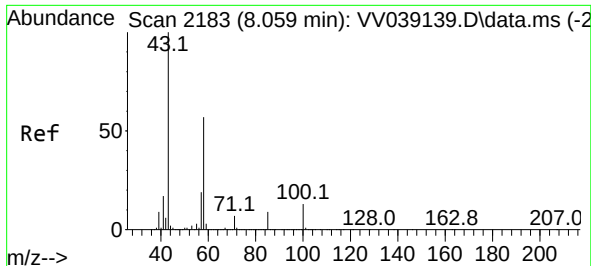
Tgt Ion: 63 Resp: 79

Ion Ratio Lower Upper

63 100

106 57.0 22.1 33.1#

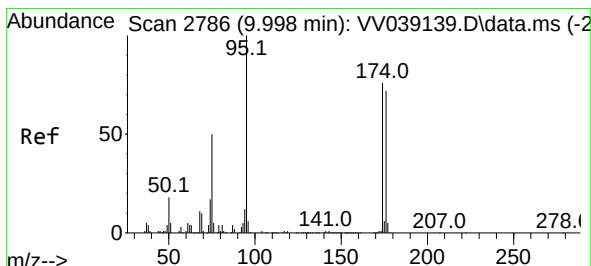
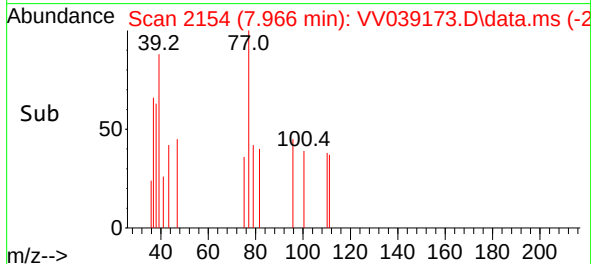
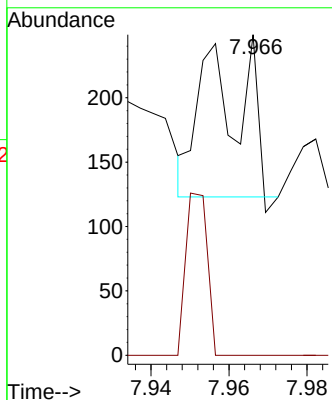
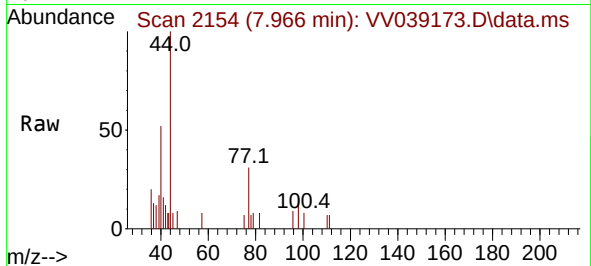




#59
2-Hexanone
Concen: 2.334 ug/l
RT: 7.966 min Scan# 2183
Delta R.T. -0.093 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

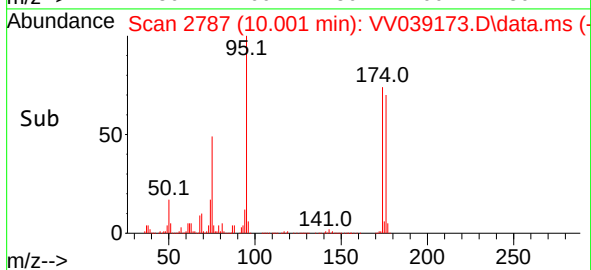
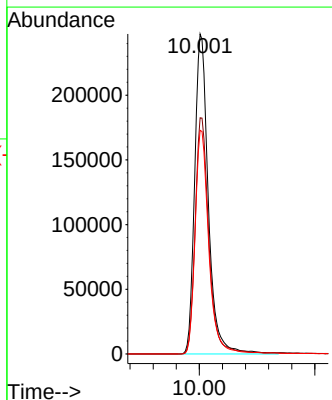
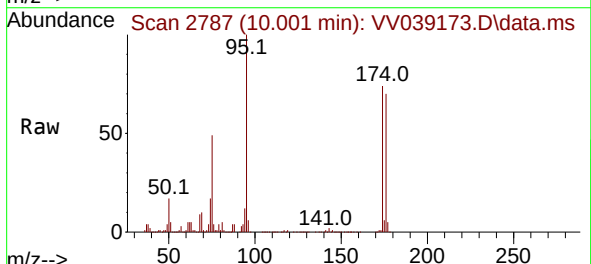
Instrument :
MSVOA_V
ClientSampleId :
DA-2

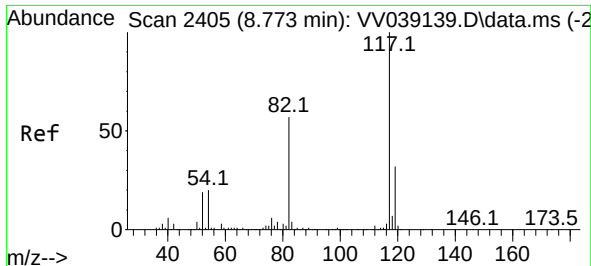
Tgt Ion: 43 Resp: 89
Ion Ratio Lower Upper
43 100
58 53.9 28.3 85.0



#62
4-Bromofluorobenzene
Concen: 44.855 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

Tgt Ion: 95 Resp: 406703
Ion Ratio Lower Upper
95 100
174 74.1 0.0 150.4
176 69.8 0.0 144.2

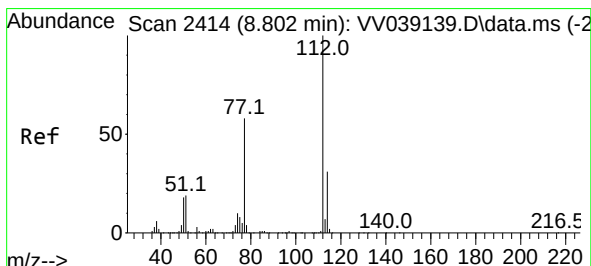
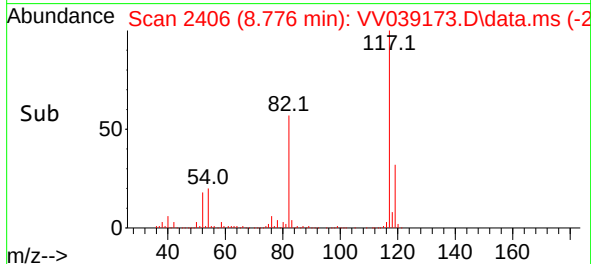
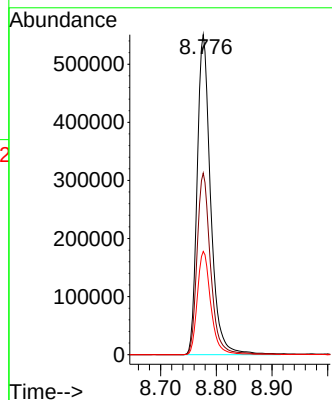
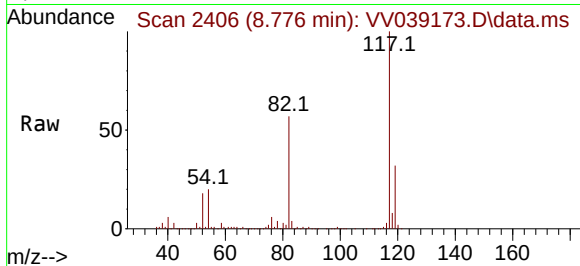




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

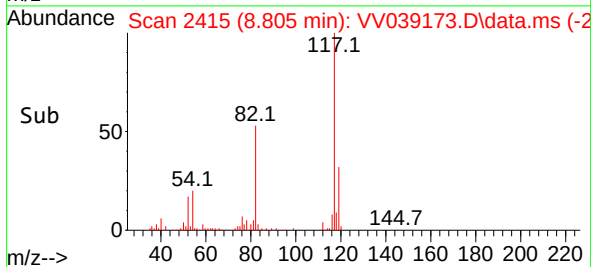
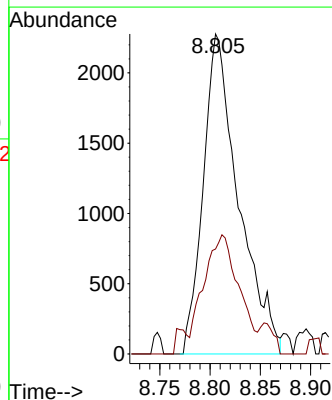
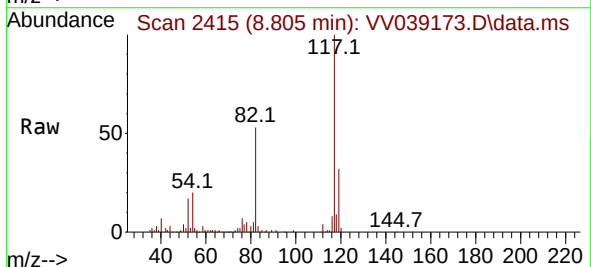
Instrument :
MSVOA_V
ClientSampleId :
DA-2

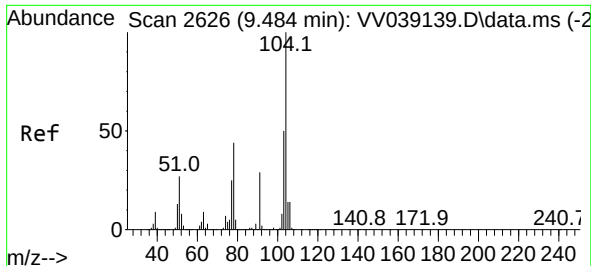
Tgt Ion:117 Resp: 926008
Ion Ratio Lower Upper
117 100
82 56.7 45.4 68.2
119 32.3 25.6 38.4



#65
Chlorobenzene
Concen: 0.216 ug/l
RT: 8.805 min Scan# 2415
Delta R.T. 0.003 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

Tgt Ion:112 Resp: 5564
Ion Ratio Lower Upper
112 100
114 32.8 24.6 37.0

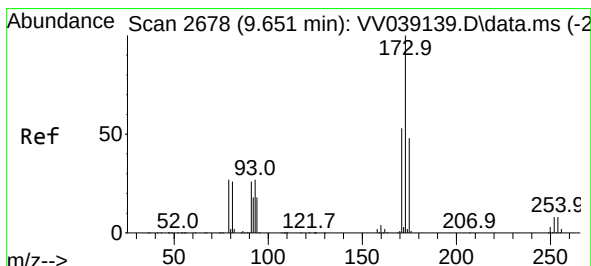
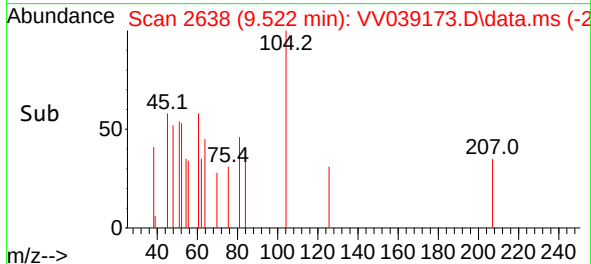
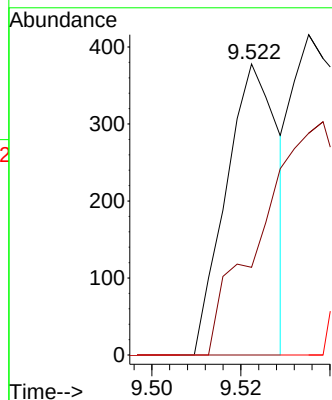
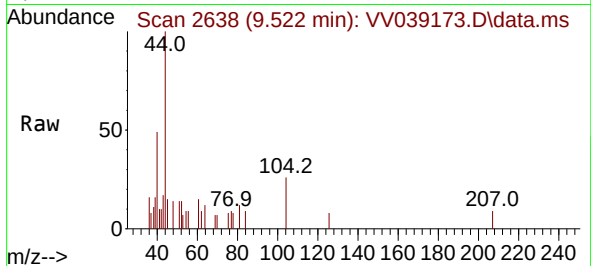




#70
Styrene
Concen: 1.572 ug/l
RT: 9.522 min Scan# 2638
Delta R.T. 0.038 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

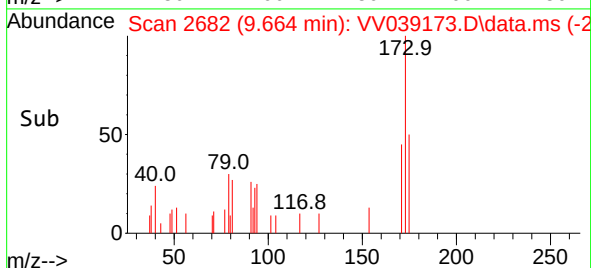
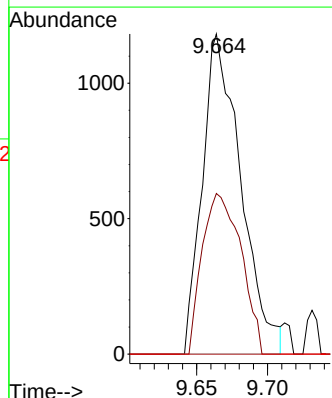
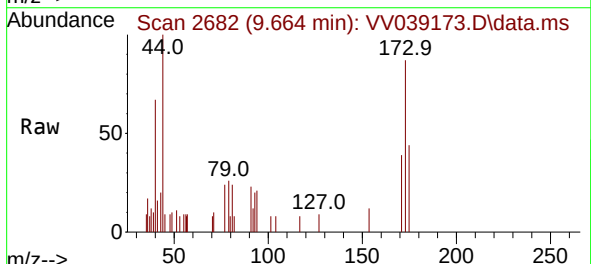
Instrument :
MSVOA_V
ClientSampleId :
DA-2

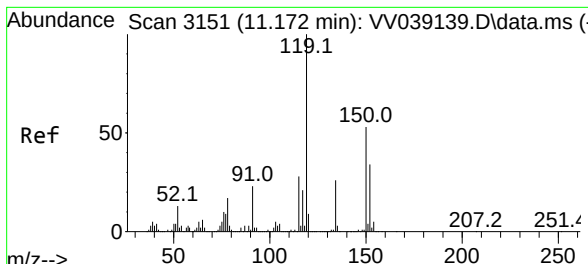
Tgt Ion:104 Resp: 307
Ion Ratio Lower Upper
104 100
78 0.0 39.8 59.6#
103 0.0 43.4 65.2#



#71
Bromoform
Concen: 0.307 ug/l
RT: 9.664 min Scan# 2682
Delta R.T. 0.013 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

Tgt Ion:173 Resp: 2232
Ion Ratio Lower Upper
173 100
175 50.5 23.9 71.7
254 0.0 0.1 0.1#

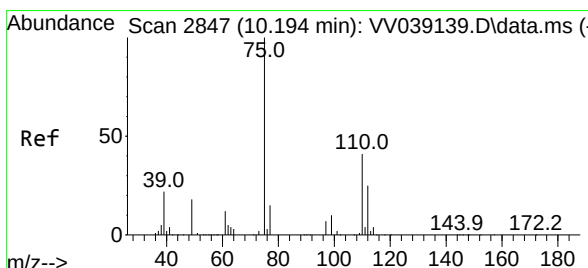
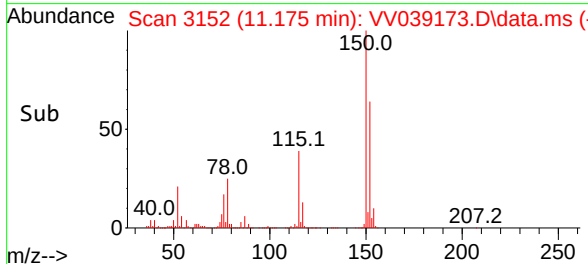
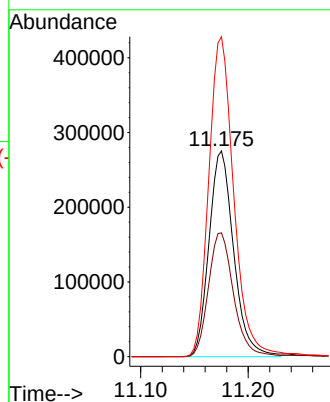
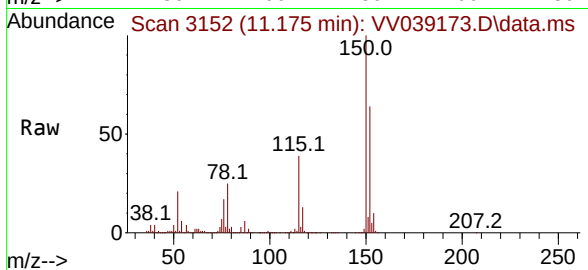




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.175 min Scan# 3151
 Delta R.T. 0.003 min
 Lab File: VV039173.D
 Acq: 25 Sep 2025 12:10

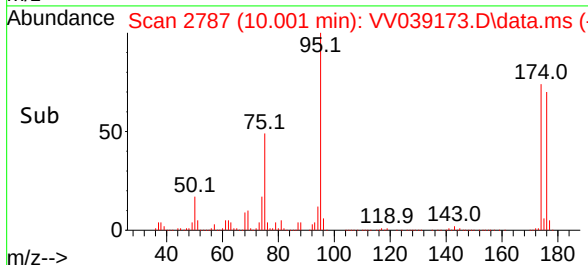
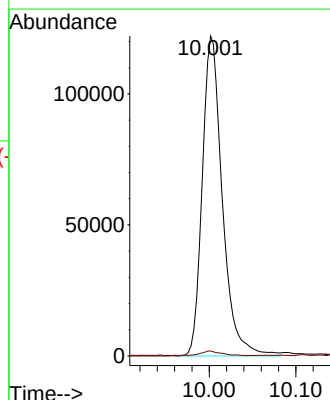
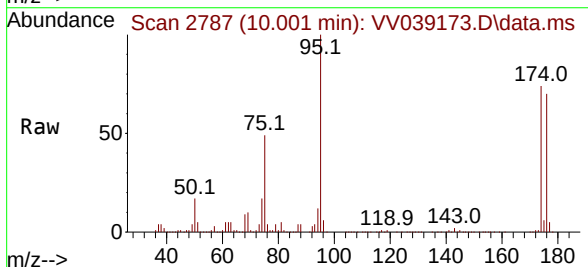
Instrument :
 MSVOA_V
 ClientSampleId :
 DA-2

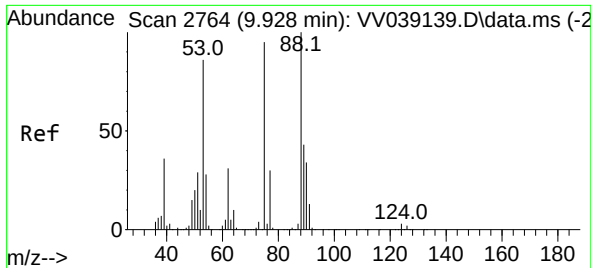
Tgt Ion:152 Resp: 438853
 Ion Ratio Lower Upper
 152 100
 115 61.9 44.8 134.4
 150 158.9 0.0 353.8



#76
 1,2,3-Trichloropropane
 Concen: 19.708 ug/l
 RT: 10.001 min Scan# 2787
 Delta R.T. -0.193 min
 Lab File: VV039173.D
 Acq: 25 Sep 2025 12:10

Tgt Ion: 75 Resp: 196921
 Ion Ratio Lower Upper
 75 100
 77 1.4 11.3 33.8#

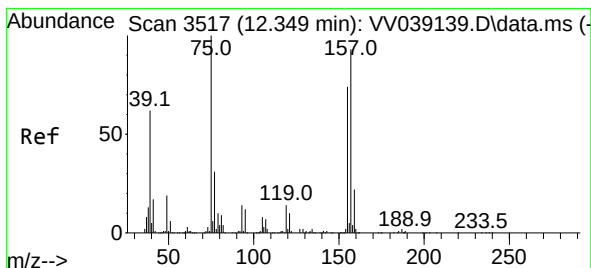
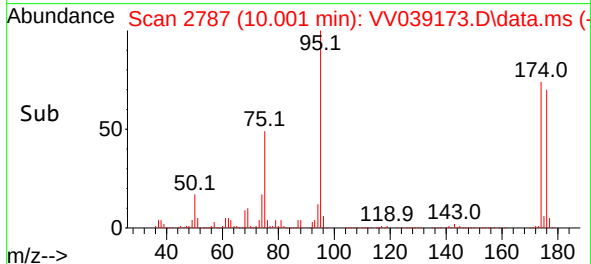
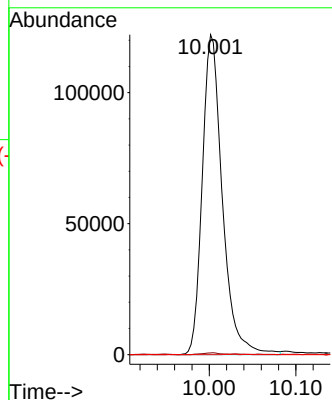
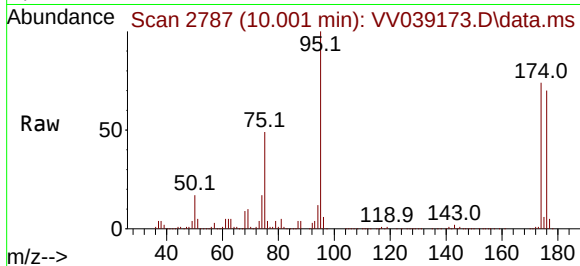




#81
trans-1,4-Dichloro-2-butene
Concen: 47.313 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

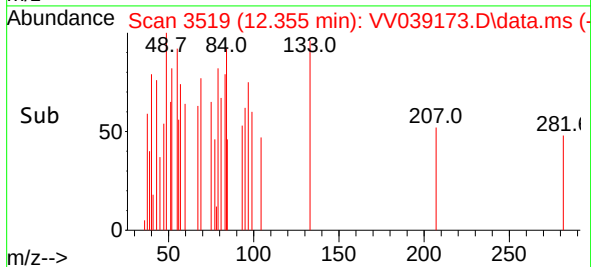
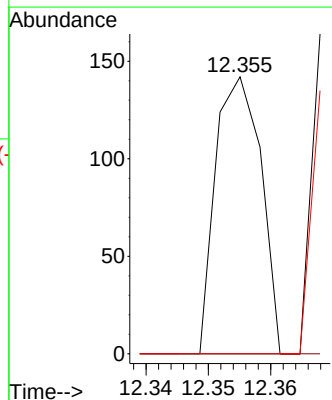
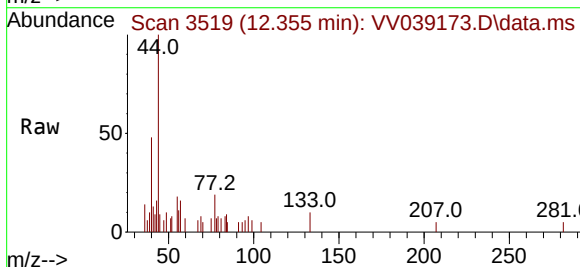
Instrument :
MSVOA_V
ClientSampleId :
DA-2

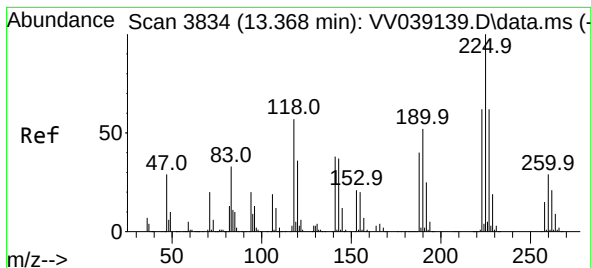
Tgt Ion: 75 Resp: 196921
Ion Ratio Lower Upper
75 100
53 0.6 72.5 108.7#
89 0.0 37.2 55.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 12.355 min Scan# 3519
Delta R.T. 0.006 min
Lab File: VV039173.D
Acq: 25 Sep 2025 12:10

Tgt Ion: 75 Resp: 72
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#





#94

Hexachlorobutadiene

Concen: 0.208 ug/l

RT: 13.371 min Scan# 3835

Delta R.T. 0.003 min

Lab File: VV039173.D

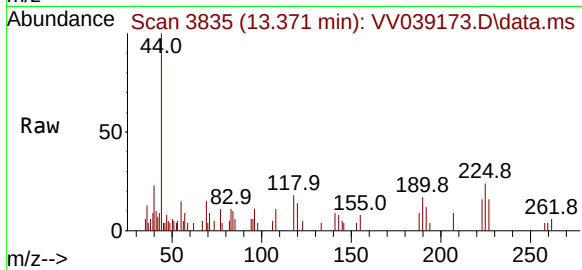
Acq: 25 Sep 2025 12:10

Instrument :

MSVOA_V

ClientSampleId :

DA-2



Tgt Ion:225 Resp: 969

Ion Ratio Lower Upper

225 100

223 71.6 31.6 94.7

227 84.0 31.8 95.4

