

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039249.D
 Acq On : 03 Oct 2025 15:04
 Operator : SY/MD
 Sample : Q3201-07
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 FIELD-BLANK

Quant Time: Oct 04 01:11:35 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.	T.Q	Ion	Response	Conc	Units	Dev(Min)

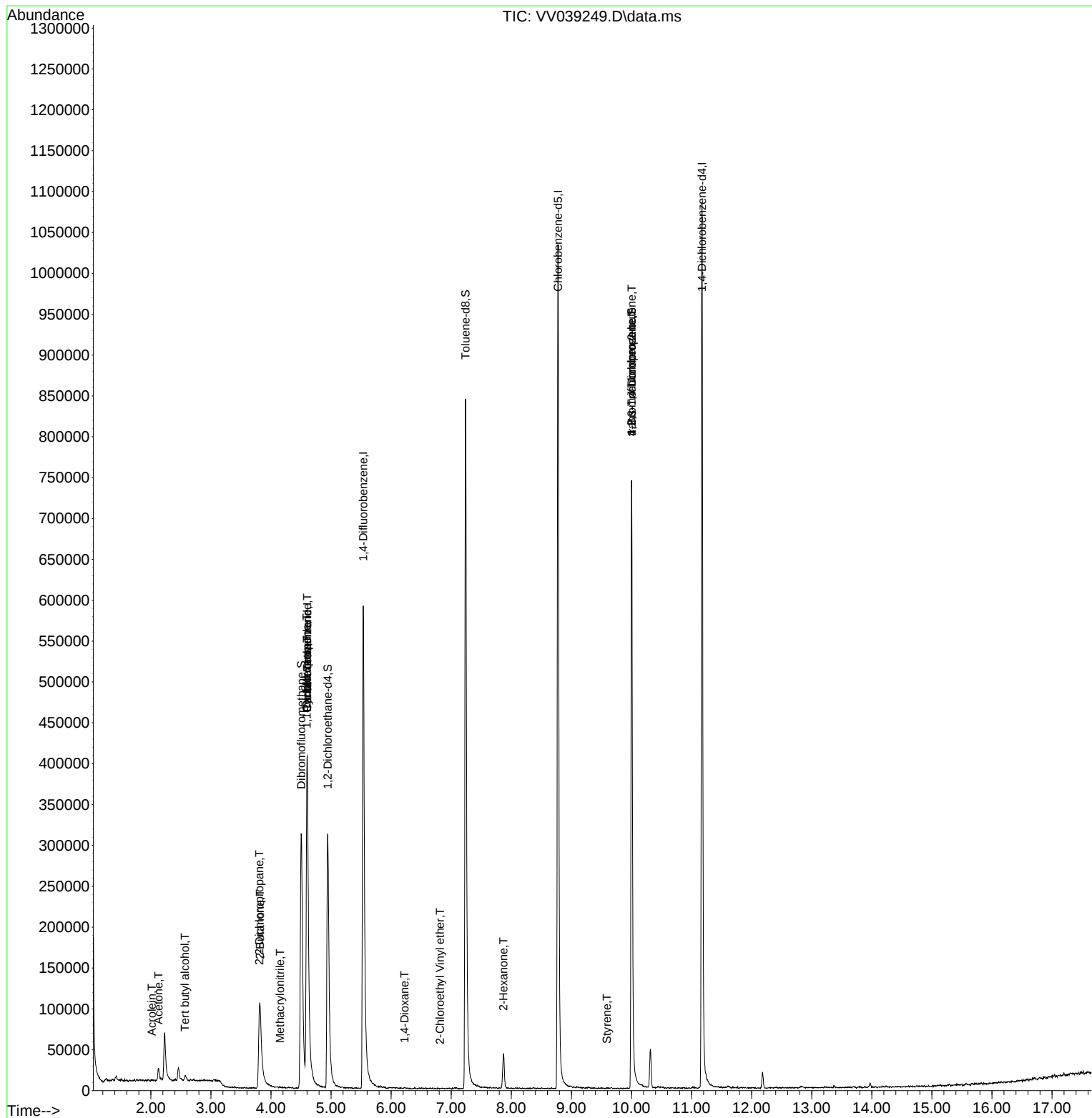
Internal Standards							
1) Pentafluorobenzene	4.603	168		349814	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114		588713	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117		608055	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152		300076	50.000	ug/l	0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	4.944	65		283815	56.058	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	112.120%	
35) Dibromofluoromethane	4.503	113		269374	56.917	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	113.840%	
50) Toluene-d8	7.236	98		625684	45.013	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	90.020%	
62) 4-Bromofluorobenzene	10.001	95		253724	44.339	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	88.680%	
Target Compounds							
						Qvalue	
6) Chloroethane	1.555	64		28	Below Cal	#	44
11) Tert butyl alcohol	2.568	59		1396	1.305	ug/l	96
13) Acrolein	2.015	56		125	0.673	ug/l #	1
16) Acetone	2.127	43		17763	1.042	ug/l	99
20) Methylene Chloride	2.458	84		7636	Below Cal		94
25) 2-Butanone	3.815	43		6064	1.496	ug/l #	81
26) 2,2-Dichloropropane	3.806	77		3989	0.408	ug/l #	52
31) Cyclohexane	4.600	56		8028	0.889	ug/l #	1
36) 1,1-Dichloropropene	4.597	75		30126	4.210	ug/l #	49
38) Carbon Tetrachloride	4.603	117		37243	4.259	ug/l #	17
41) Methacrylonitrile	4.150	41		20	1.915	ug/l #	1
49) 1,4-Dioxane	6.223	88		77	0.889	ug/l #	11
58) 2-Chloroethyl Vinyl ether	6.812	63		43	9.633	ug/l #	47
59) 2-Hexanone	7.866	43		128	2.346	ug/l	66
70) Styrene	9.590	104		44	1.564	ug/l #	1
76) 1,2,3-Trichloropropane	10.001	75		124416	18.210	ug/l #	58
81) trans-1,4-Dichloro-2-b...	10.001	75		124416	43.717	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.406	75		96	Below Cal	#	5

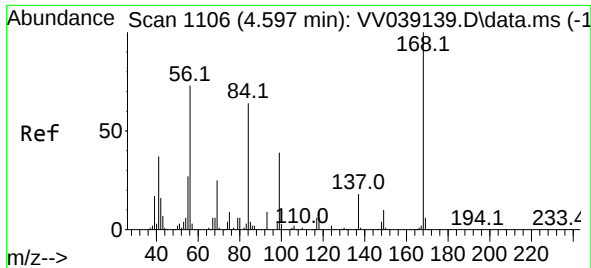
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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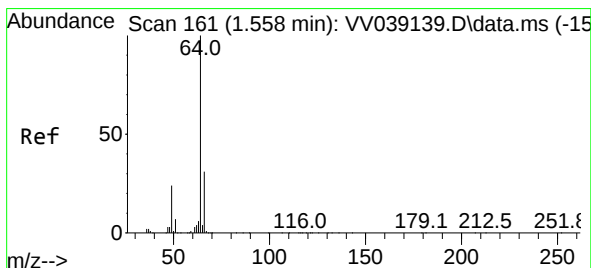
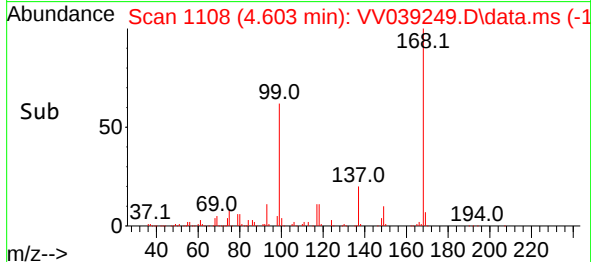
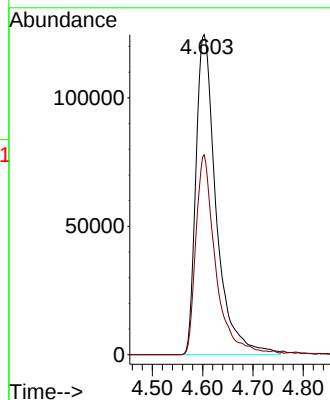
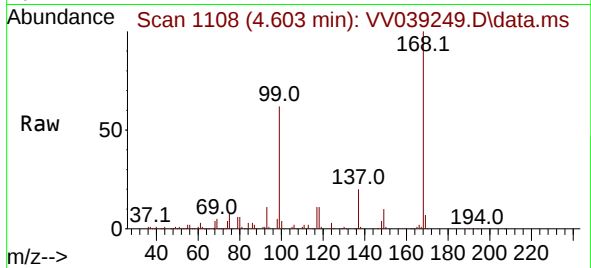




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VV039249.D
Acq: 03 Oct 2025 15:04

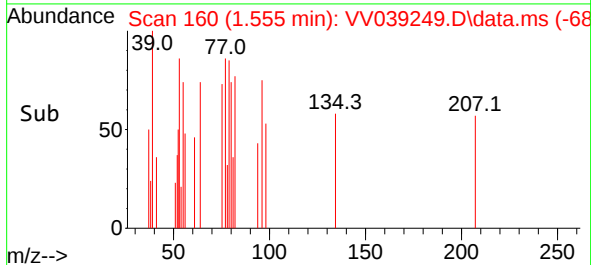
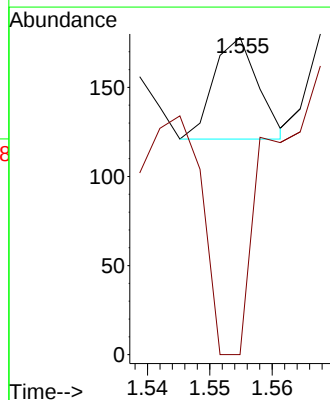
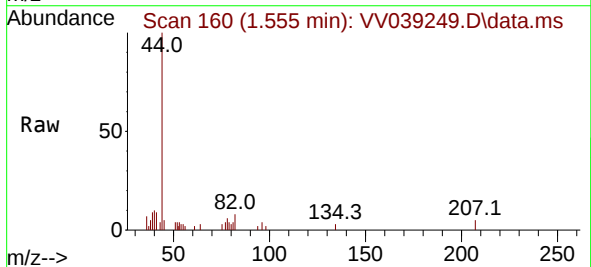
Instrument :
MSVOA_V
ClientSampleId :
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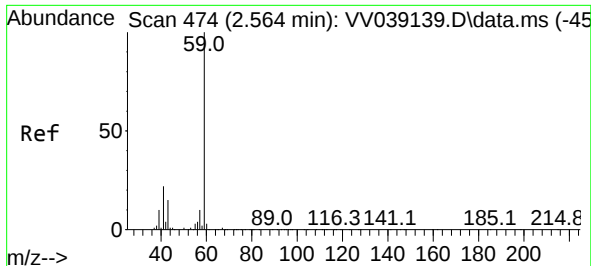
Tgt Ion:168 Resp: 349814
Ion Ratio Lower Upper
168 100
99 62.5 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.555 min Scan# 160
Delta R.T. -0.003 min
Lab File: VV039249.D
Acq: 03 Oct 2025 15:04

Tgt Ion: 64 Resp: 28
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#

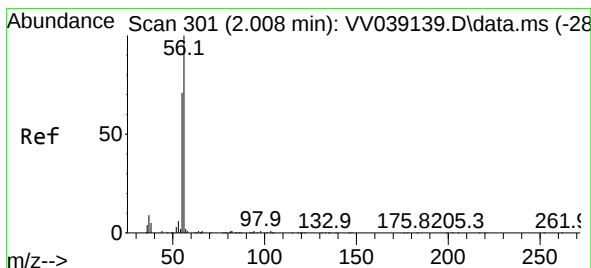
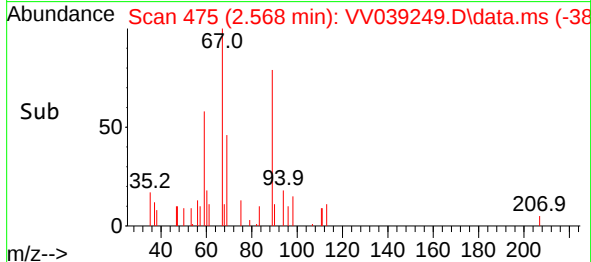
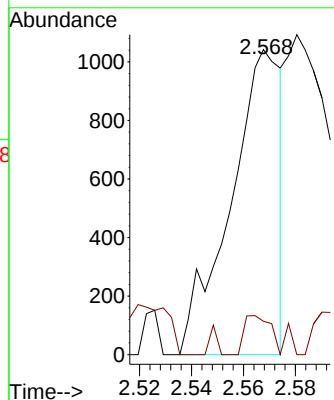
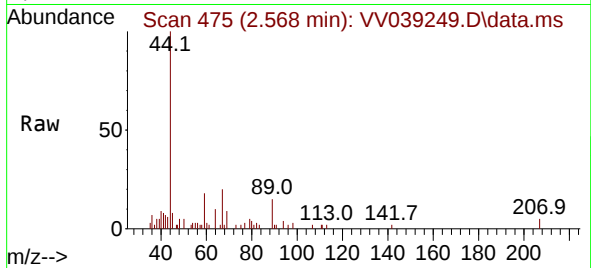




#11
Tert butyl alcohol
Concen: 1.305 ug/l
RT: 2.568 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV039249.D
Acq: 03 Oct 2025 15:04

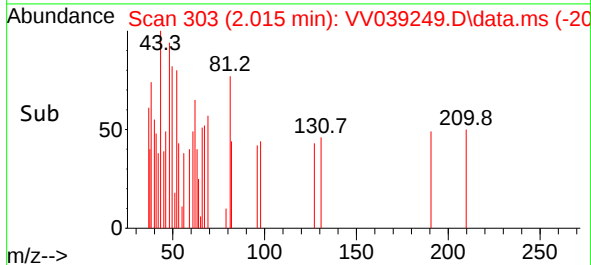
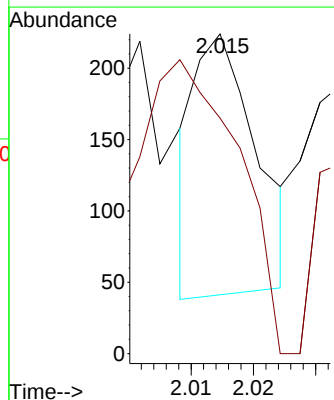
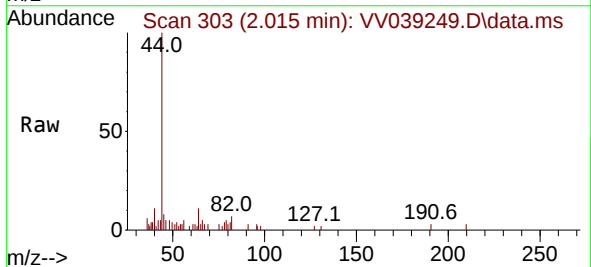
Instrument :
MSVOA_V
ClientSampleId :
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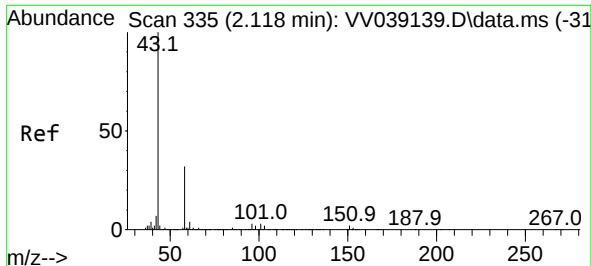
Tgt Ion: 59 Resp: 1396
Ion Ratio Lower Upper
59 100
57 8.2 7.8 11.8



#13
Acrolein
Concen: 0.673 ug/l
RT: 2.015 min Scan# 303
Delta R.T. 0.006 min
Lab File: VV039249.D
Acq: 03 Oct 2025 15:04

Tgt Ion: 56 Resp: 125
Ion Ratio Lower Upper
56 100
55 174.4 56.2 84.4#

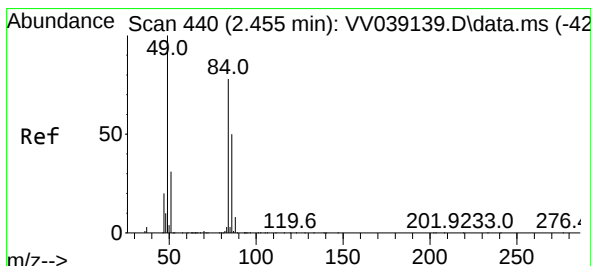
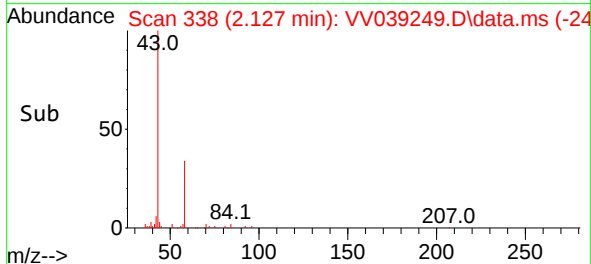
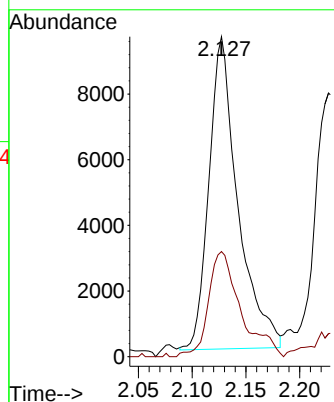
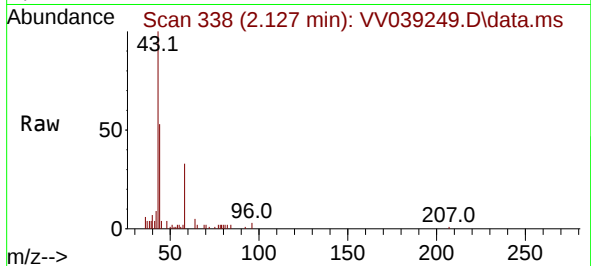




#16
Acetone
Concen: 1.042 ug/l
RT: 2.127 min Scan# 31
Delta R.T. 0.009 min
Lab File: VV039249.D
Acq: 03 Oct 2025 15:04

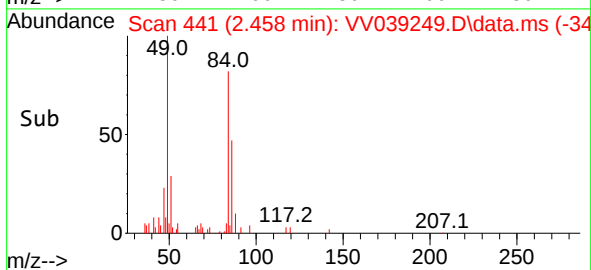
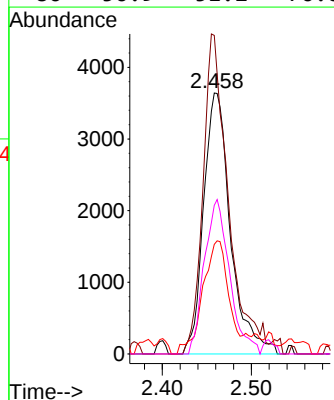
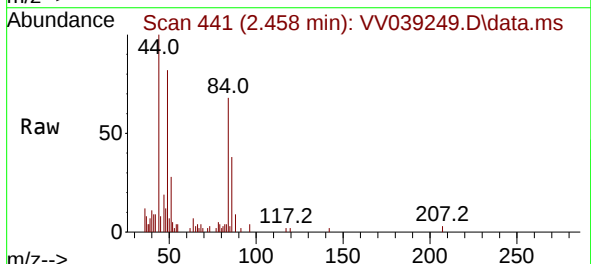
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MSVOA_V
ClientSampleId :
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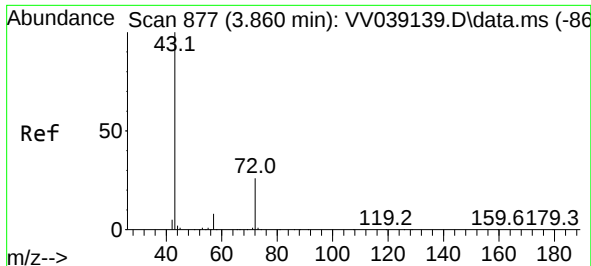
Tgt Ion: 43 Resp: 17763
Ion Ratio Lower Upper
43 100
58 32.7 25.8 38.6



#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039249.D
Acq: 03 Oct 2025 15:04

Tgt Ion: 84 Resp: 7636
Ion Ratio Lower Upper
84 100
49 122.0 102.8 154.2
51 38.8 31.9 47.9
86 56.9 51.2 76.8





#25

2-Butanone

Concen: 1.496 ug/l

RT: 3.815 min Scan# 8

Delta R.T. -0.045 min

Lab File: VV039249.D

Acq: 03 Oct 2025 15:04

Instrument :

MSVOA_V

ClientSampleId :

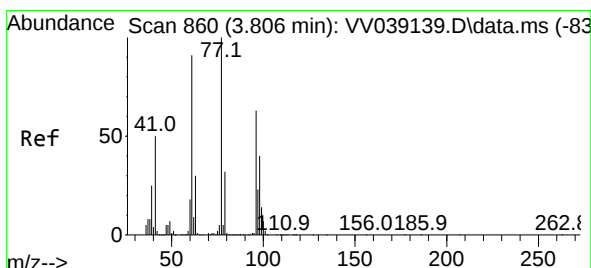
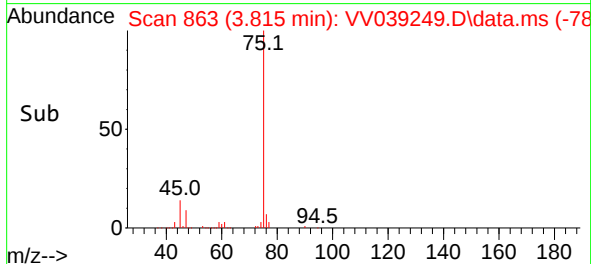
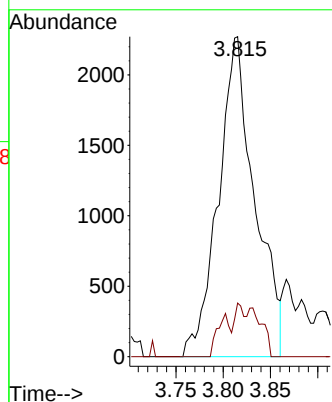
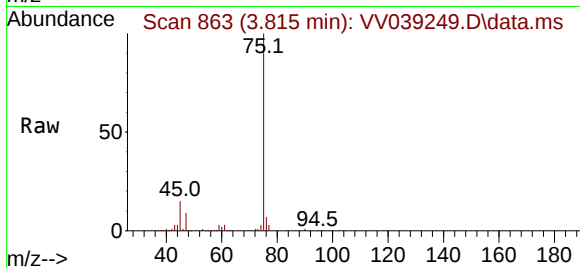
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Tgt Ion: 43 Resp: 6064

Ion Ratio Lower Upper

43 100

72 16.7 21.0 31.6#



#26

2,2-Dichloropropane

Concen: 0.408 ug/l

RT: 3.806 min Scan# 860

Delta R.T. 0.000 min

Lab File: VV039249.D

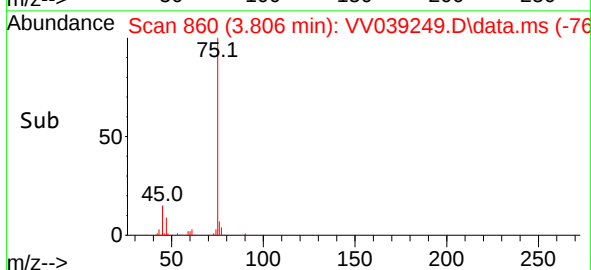
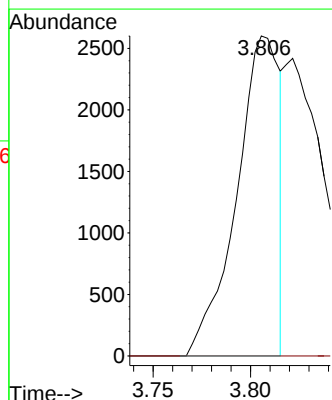
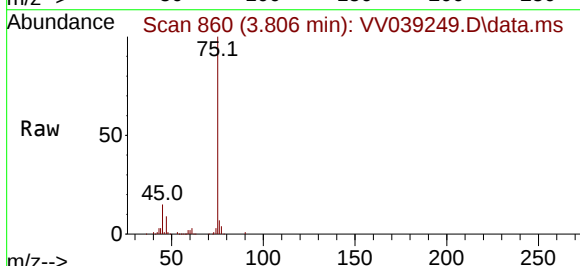
Acq: 03 Oct 2025 15:04

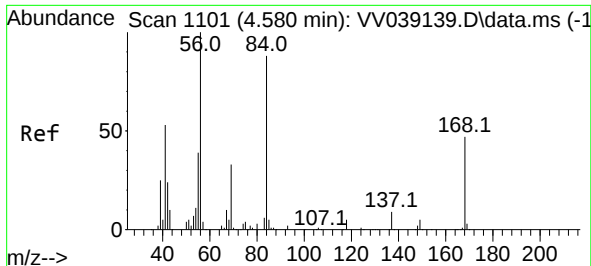
Tgt Ion: 77 Resp: 3989

Ion Ratio Lower Upper

77 100

97 0.0 11.6 34.7#

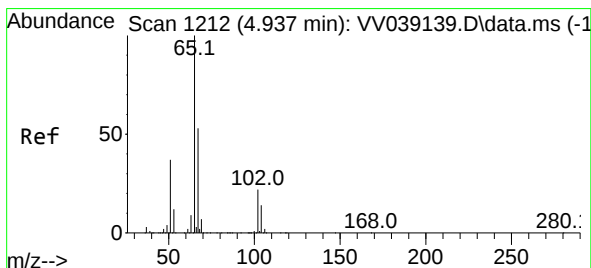
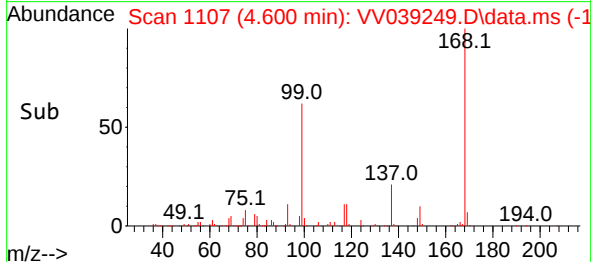
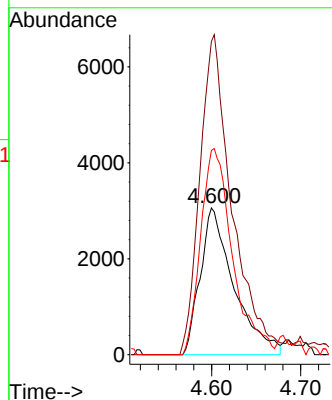
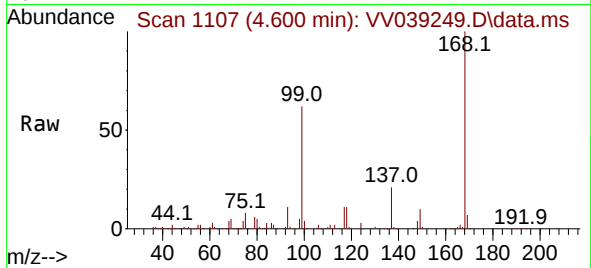




#31
Cyclohexane
Concen: 0.889 ug/l
RT: 4.600 min Scan# 1101
Delta R.T. 0.019 min
Lab File: VV039249.D
Acq: 03 Oct 2025 15:04

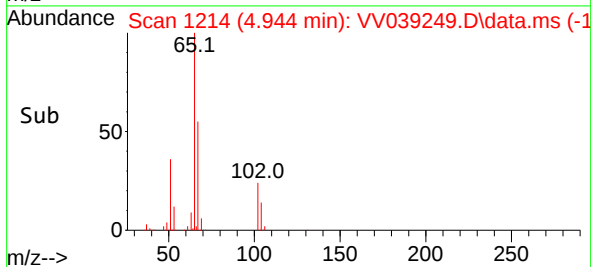
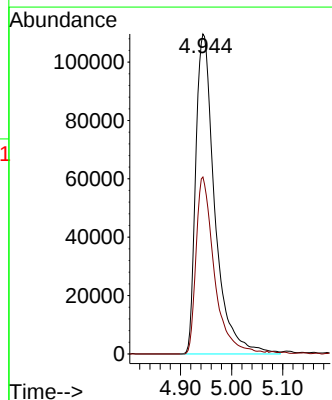
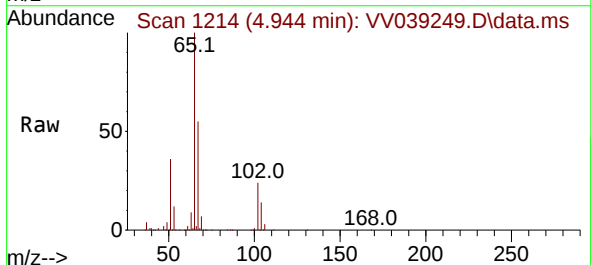
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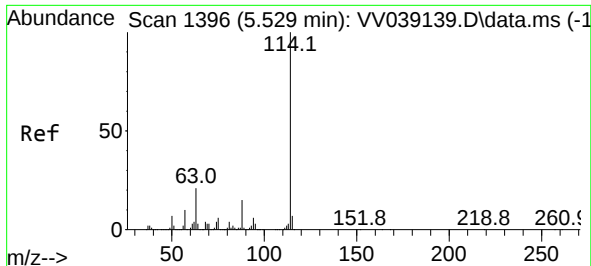
Tgt Ion: 56 Resp: 8028
Ion Ratio Lower Upper
56 100
69 213.6 26.2 39.2#
84 139.3 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 56.058 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039249.D
Acq: 03 Oct 2025 15:04

Tgt Ion: 65 Resp: 283815
Ion Ratio Lower Upper
65 100
67 52.9 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039249.D

Acq: 03 Oct 2025 15:04

Instrument :

MSVOA_V

ClientSampleId :

FIELD-BLANK

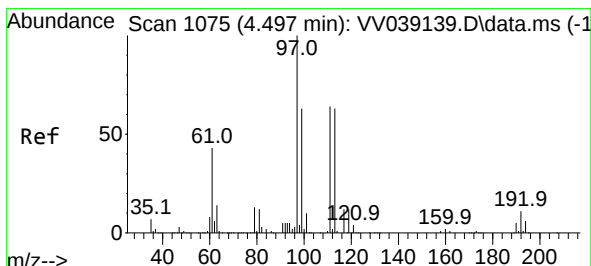
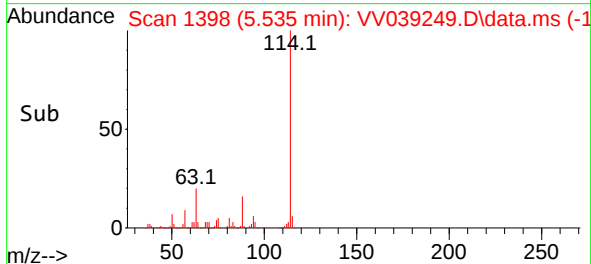
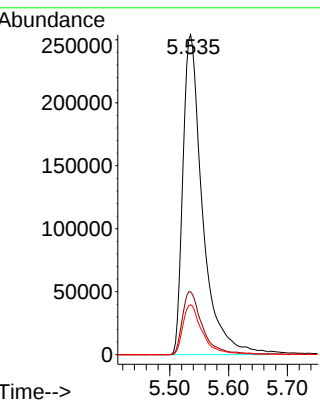
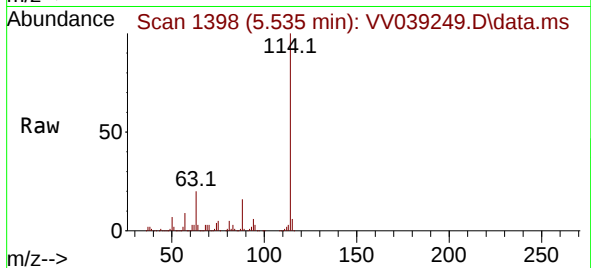
Tgt Ion:114 Resp: 588713

Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.6

88 15.6 0.0 30.8



#35

Dibromofluoromethane

Concen: 56.917 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039249.D

Acq: 03 Oct 2025 15:04

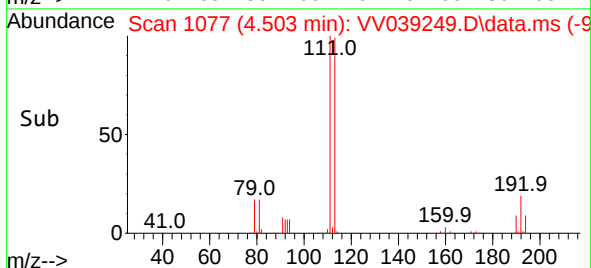
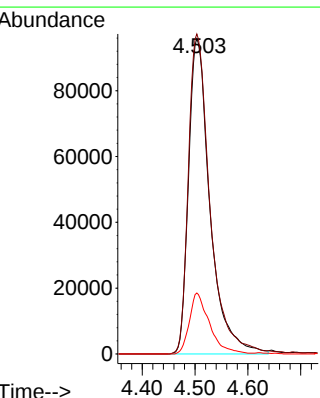
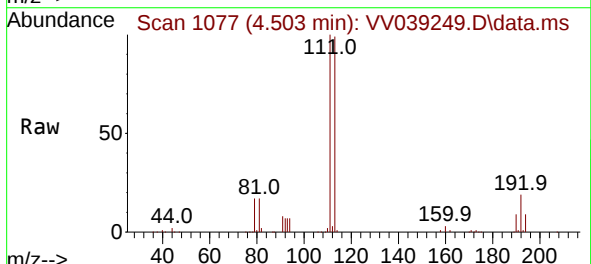
Tgt Ion:113 Resp: 269374

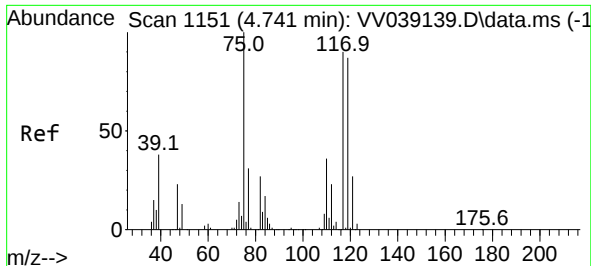
Ion Ratio Lower Upper

113 100

111 102.3 82.4 123.6

192 18.2 13.8 20.8

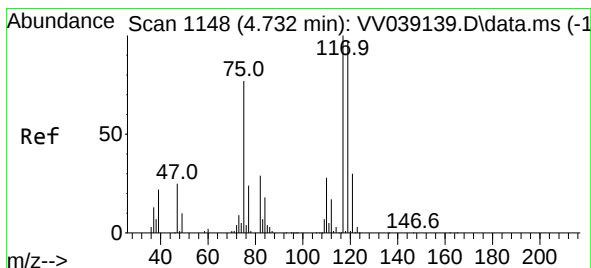
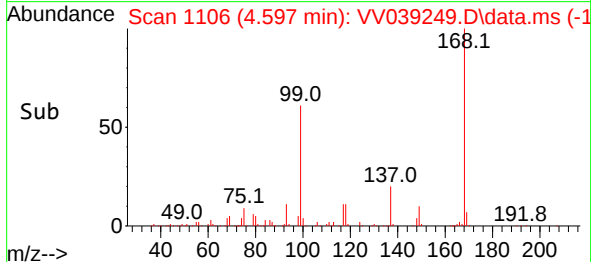
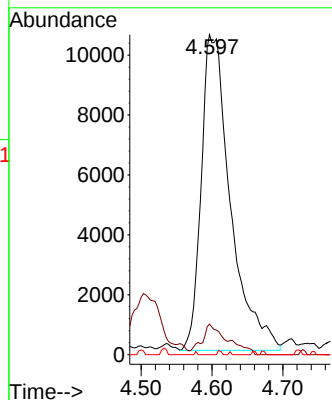
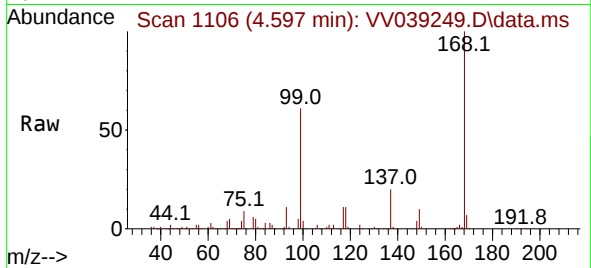




#36
1,1-Dichloropropene
Concen: 4.210 ug/l
RT: 4.597 min Scan# 1106
Delta R.T. -0.144 min
Lab File: VV039249.D
Acq: 03 Oct 2025 15:04

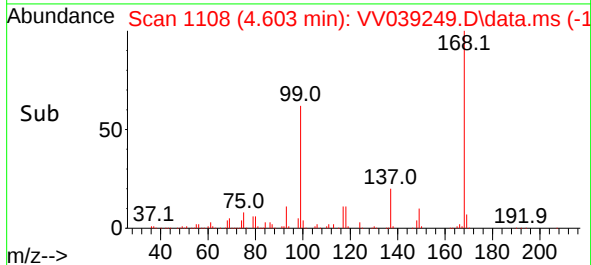
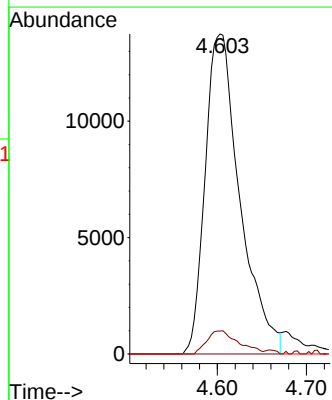
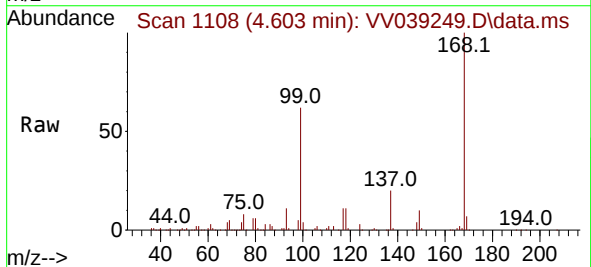
Instrument :
MSVOA_V
ClientSampleId :
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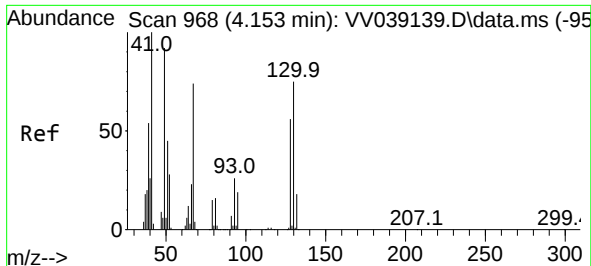
Tgt Ion: 75 Resp: 30126
Ion Ratio Lower Upper
75 100
110 8.5 18.1 54.1#
77 0.2 24.8 37.2#



#38
Carbon Tetrachloride
Concen: 4.259 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. -0.129 min
Lab File: VV039249.D
Acq: 03 Oct 2025 15:04

Tgt Ion: 117 Resp: 37243
Ion Ratio Lower Upper
117 100
119 7.2 77.2 115.8#
121 0.0 24.2 36.2#

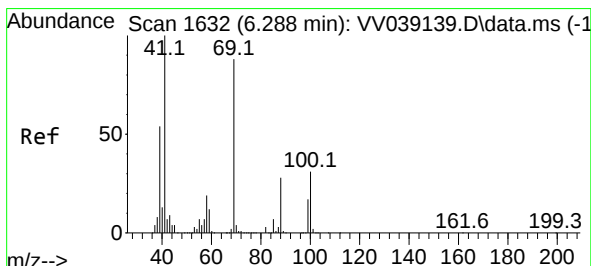
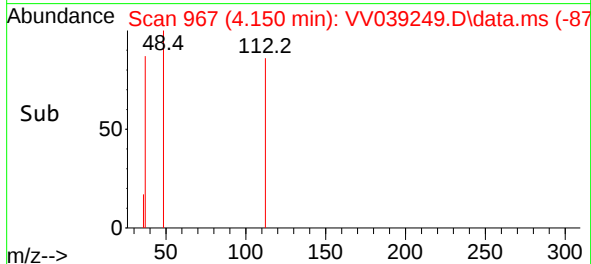
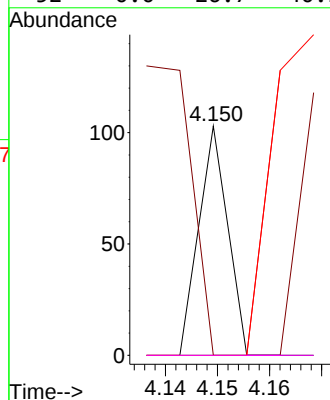
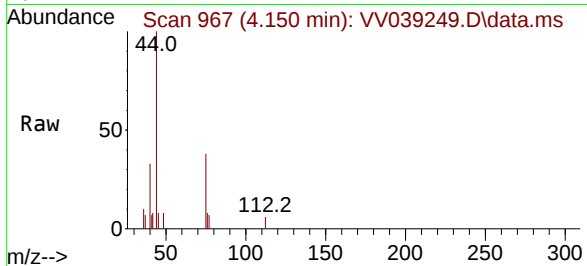




#41
Methacrylonitrile
Concen: 1.915 ug/l
RT: 4.150 min Scan# 90
Delta R.T. -0.003 min
Lab File: VV039249.D
Acq: 03 Oct 2025 15:04

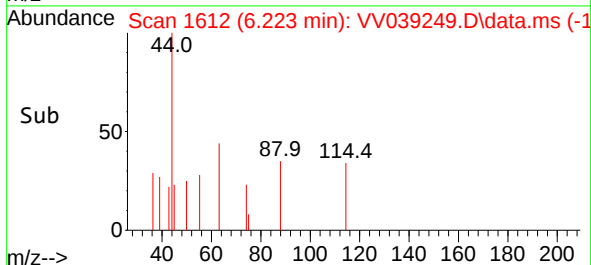
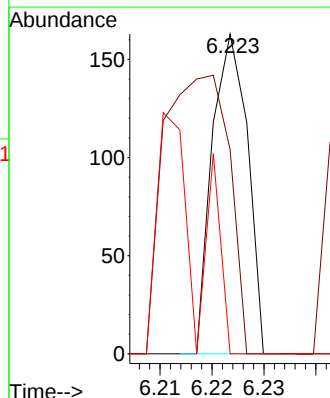
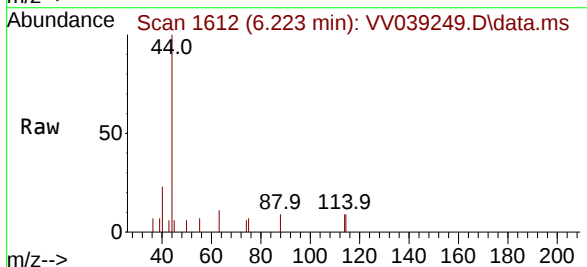
Instrument :
MSVOA_V
ClientSampleId :
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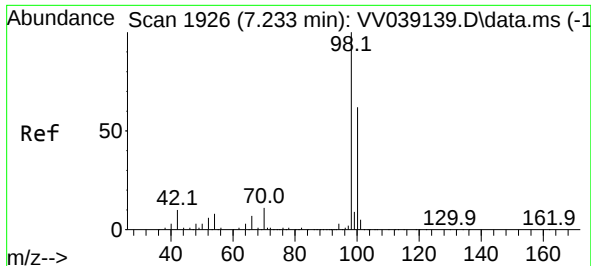
Tgt Ion:	41	Resp:	20
Ion	Ratio	Lower	Upper
41	100		
39	250.0	42.2	63.2#
67	0.0	67.9	101.9#
52	0.0	26.7	40.1#



#49
1,4-Dioxane
Concen: 0.889 ug/l
RT: 6.223 min Scan# 1612
Delta R.T. -0.064 min
Lab File: VV039249.D
Acq: 03 Oct 2025 15:04

Tgt Ion:	88	Resp:	77
Ion	Ratio	Lower	Upper
88	100		
43	159.7	25.1	37.7#
58	84.4	53.6	80.4#

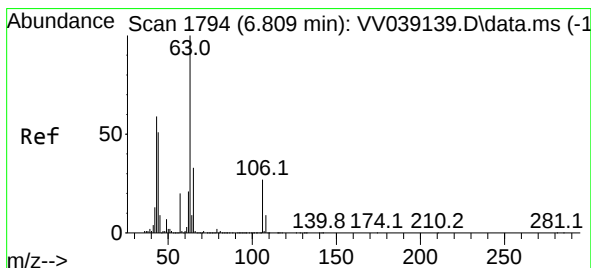
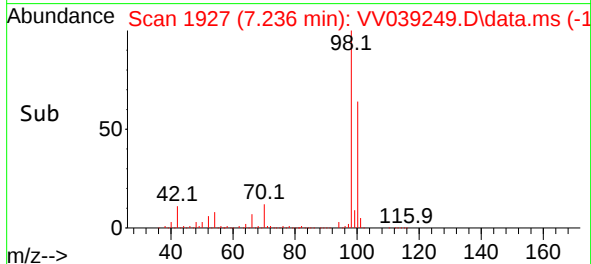
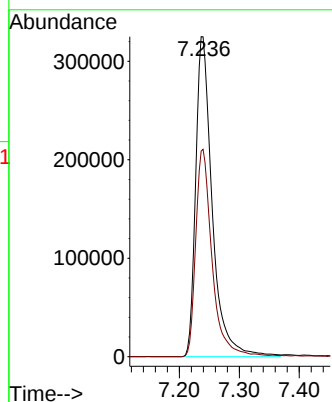
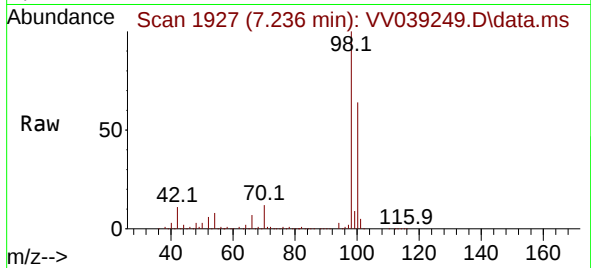




#50
Toluene-d8
Concen: 45.013 ug/l
RT: 7.236 min Scan# 1926
Delta R.T. 0.003 min
Lab File: VV039249.D
Acq: 03 Oct 2025 15:04

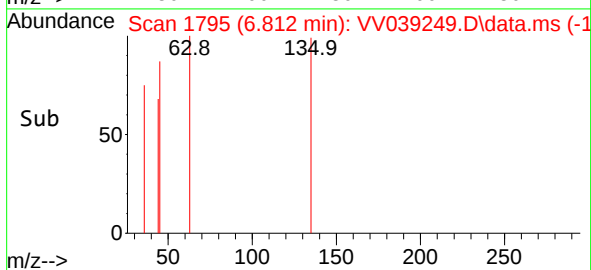
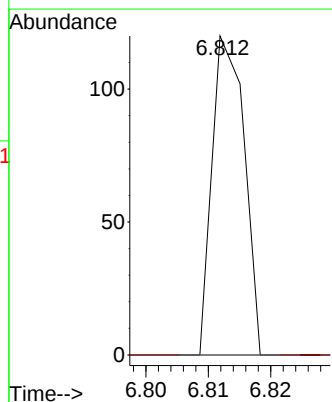
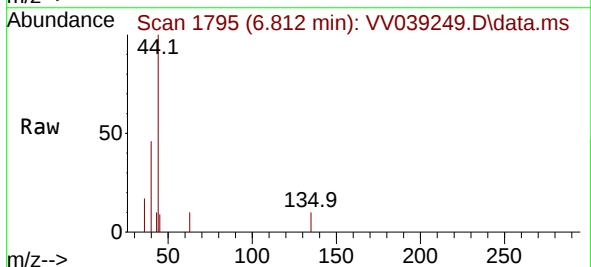
Instrument :
MSVOA_V
ClientSampleId :
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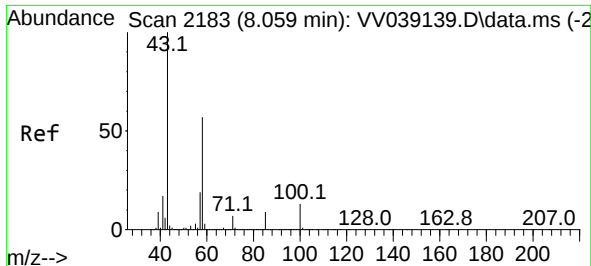
Tgt Ion: 98 Resp: 625684
Ion Ratio Lower Upper
98 100
100 63.9 52.2 78.2



#58
2-Chloroethyl Vinyl ether
Concen: 9.633 ug/l
RT: 6.812 min Scan# 1795
Delta R.T. 0.003 min
Lab File: VV039249.D
Acq: 03 Oct 2025 15:04

Tgt Ion: 63 Resp: 43
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#





#59

2-Hexanone

Concen: 2.346 ug/l

RT: 7.866 min Scan# 2183

Delta R.T. -0.193 min

Lab File: VV039249.D

Acq: 03 Oct 2025 15:04

Instrument :

MSVOA_V

ClientSampleId :

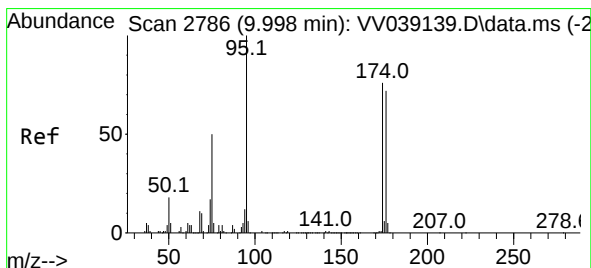
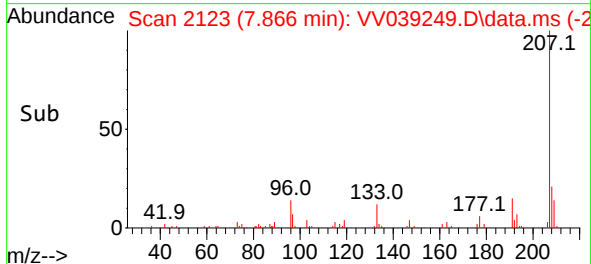
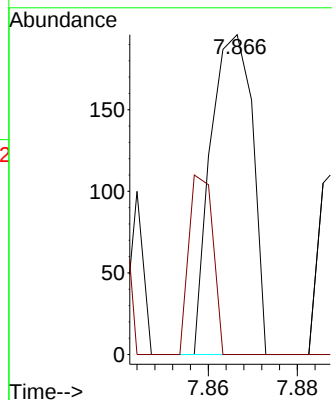
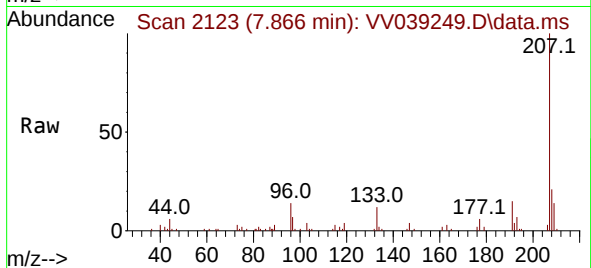
FIELD-BLANK

Tgt Ion: 43 Resp: 128

Ion Ratio Lower Upper

43 100

58 32.0 28.3 85.0



#62

4-Bromofluorobenzene

Concen: 44.339 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.003 min

Lab File: VV039249.D

Acq: 03 Oct 2025 15:04

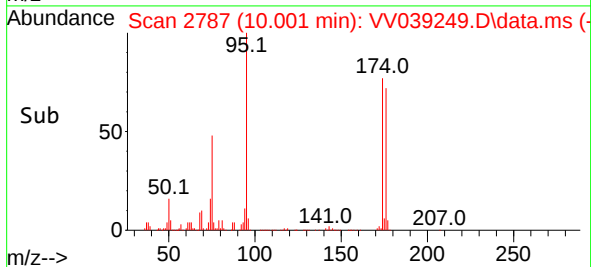
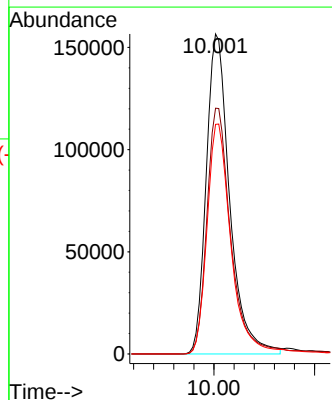
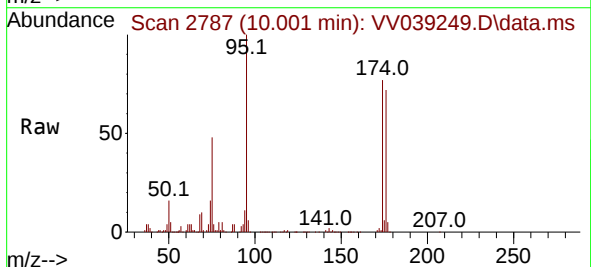
Tgt Ion: 95 Resp: 253724

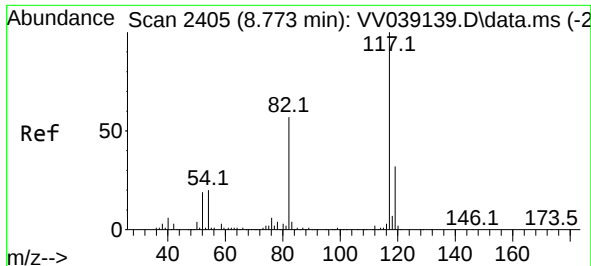
Ion Ratio Lower Upper

95 100

174 79.9 0.0 150.4

176 74.1 0.0 144.2

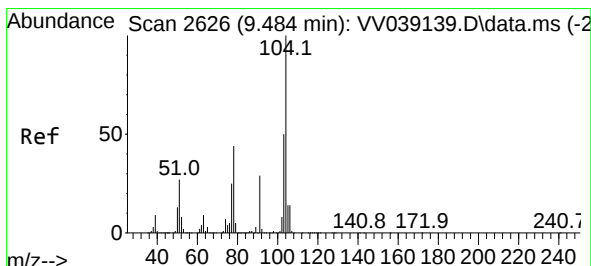
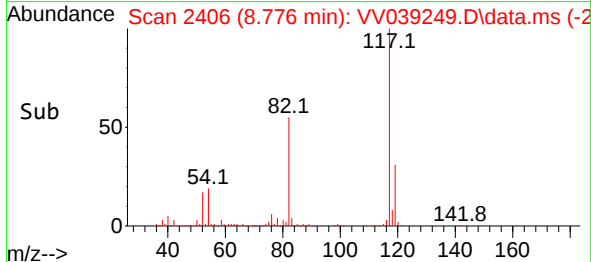
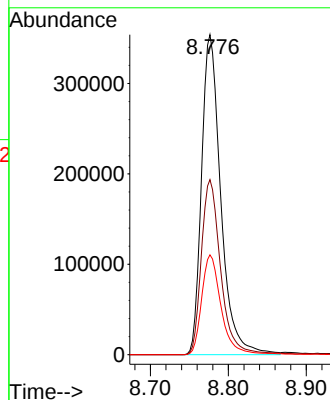
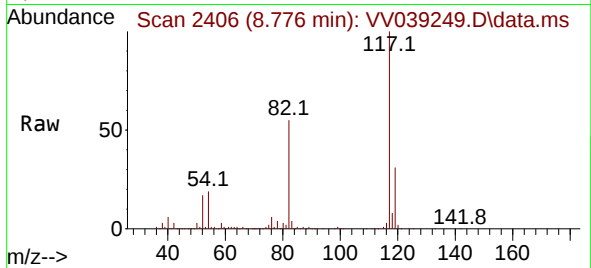




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VV039249.D
Acq: 03 Oct 2025 15:04

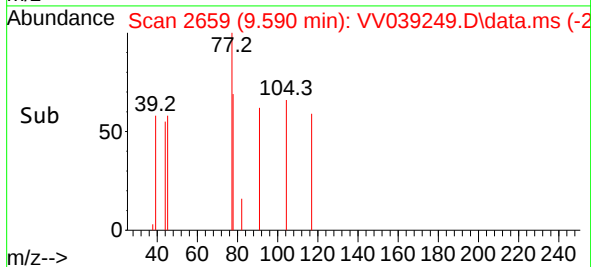
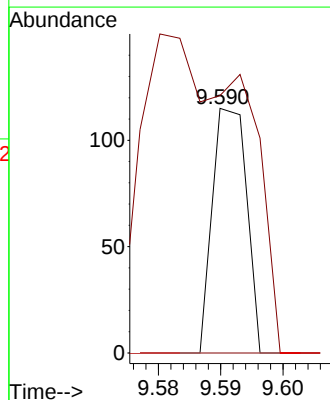
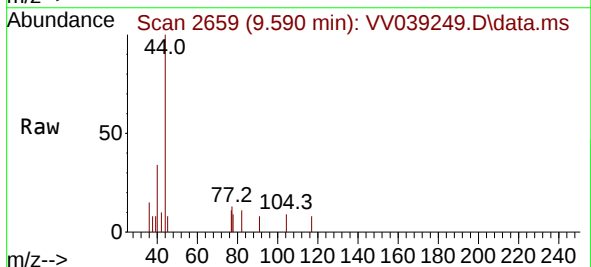
Instrument :
MSVOA_V
ClientSampleId :
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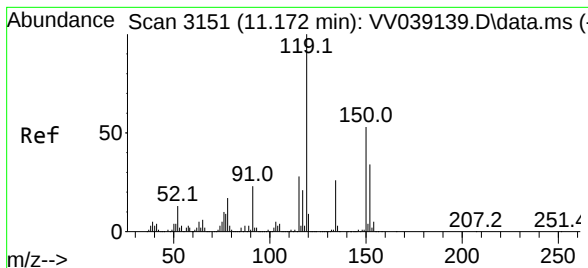
Tgt Ion:117 Resp: 608055
Ion Ratio Lower Upper
117 100
82 54.7 45.4 68.2
119 31.2 25.6 38.4



#70
Styrene
Concen: 1.564 ug/l
RT: 9.590 min Scan# 2659
Delta R.T. 0.106 min
Lab File: VV039249.D
Acq: 03 Oct 2025 15:04

Tgt Ion:104 Resp: 44
Ion Ratio Lower Upper
104 100
78 384.1 39.8 59.6#
103 0.0 43.4 65.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 3151

Delta R.T. 0.003 min

Lab File: VV039249.D

Acq: 03 Oct 2025 15:04

Instrument :

MSVOA_V

ClientSampleId :

FIELD-BLANK

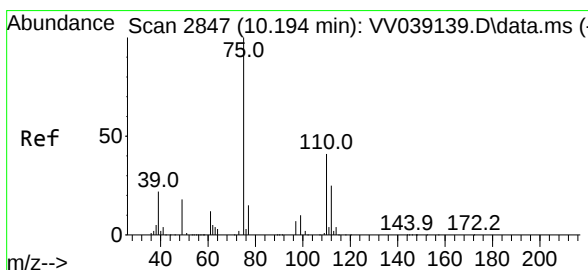
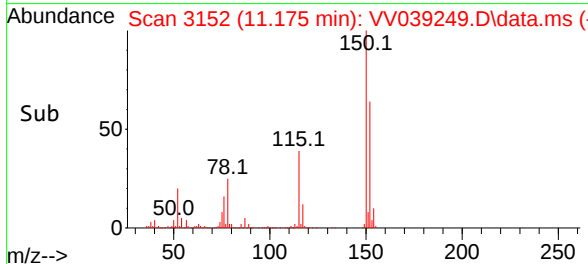
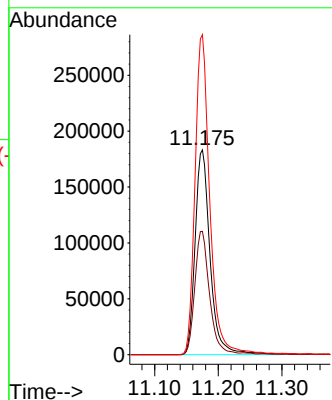
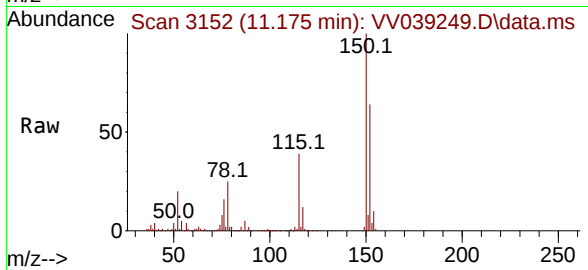
Tgt Ion:152 Resp: 300076

Ion Ratio Lower Upper

152 100

115 59.0 44.8 134.4

150 154.0 0.0 353.8



#76

1,2,3-Trichloropropane

Concen: 18.210 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.193 min

Lab File: VV039249.D

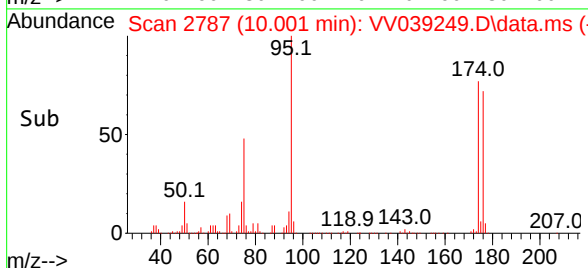
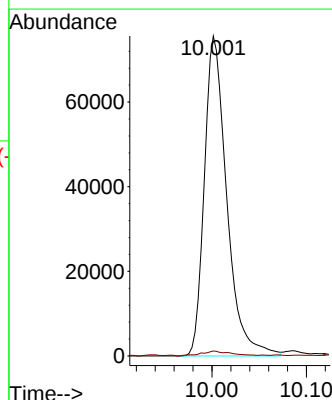
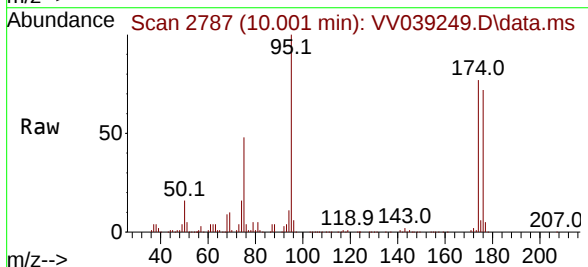
Acq: 03 Oct 2025 15:04

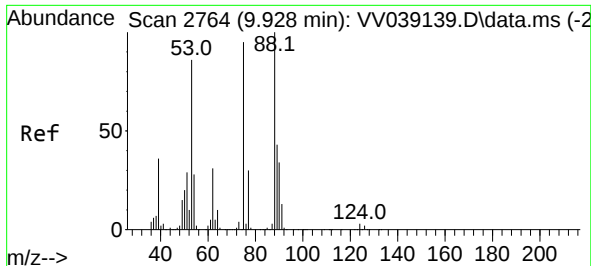
Tgt Ion: 75 Resp: 124416

Ion Ratio Lower Upper

75 100

77 2.1 11.3 33.8#

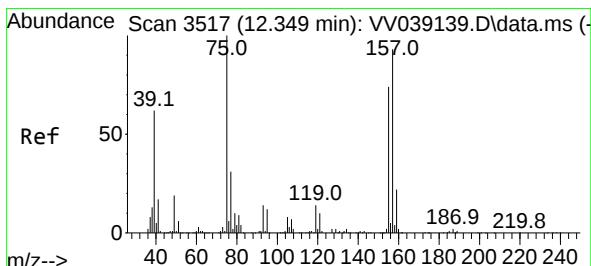
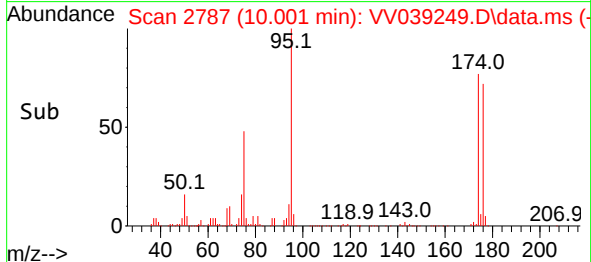
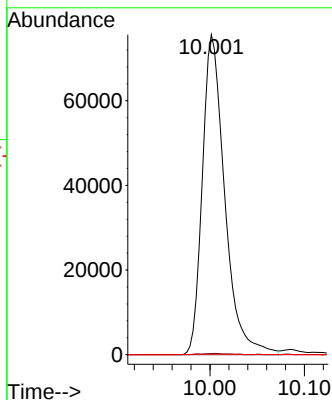
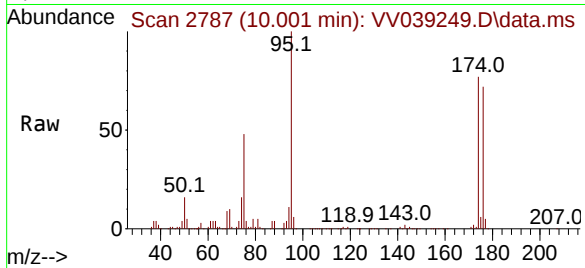




#81
trans-1,4-Dichloro-2-butene
Concen: 43.717 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039249.D
Acq: 03 Oct 2025 15:04

Instrument :
MSVOA_V
ClientSampleId :
FIELD-BLANK

Tgt Ion: 75 Resp: 124416
Ion Ratio Lower Upper
75 100
53 0.5 72.5 108.7#
89 0.0 37.2 55.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 12.406 min Scan# 3535
Delta R.T. 0.057 min
Lab File: VV039249.D
Acq: 03 Oct 2025 15:04

Tgt Ion: 75 Resp: 96
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#

