

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
 Data File : VV039170.D
 Acq On : 25 Sep 2025 11:01
 Operator : SY/MD
 Sample : VV0925WBL01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 26 01:20:45 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	4.597	168	480047	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	864912	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	870930	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	413592	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	417535	60.097	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	120.200%#
35) Dibromofluoromethane	4.500	113	370419	53.273	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	106.540%
50) Toluene-d8	7.236	98	965988	47.302	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	94.600%
62) 4-Bromofluorobenzene	10.001	95	371030	44.133	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	88.260%

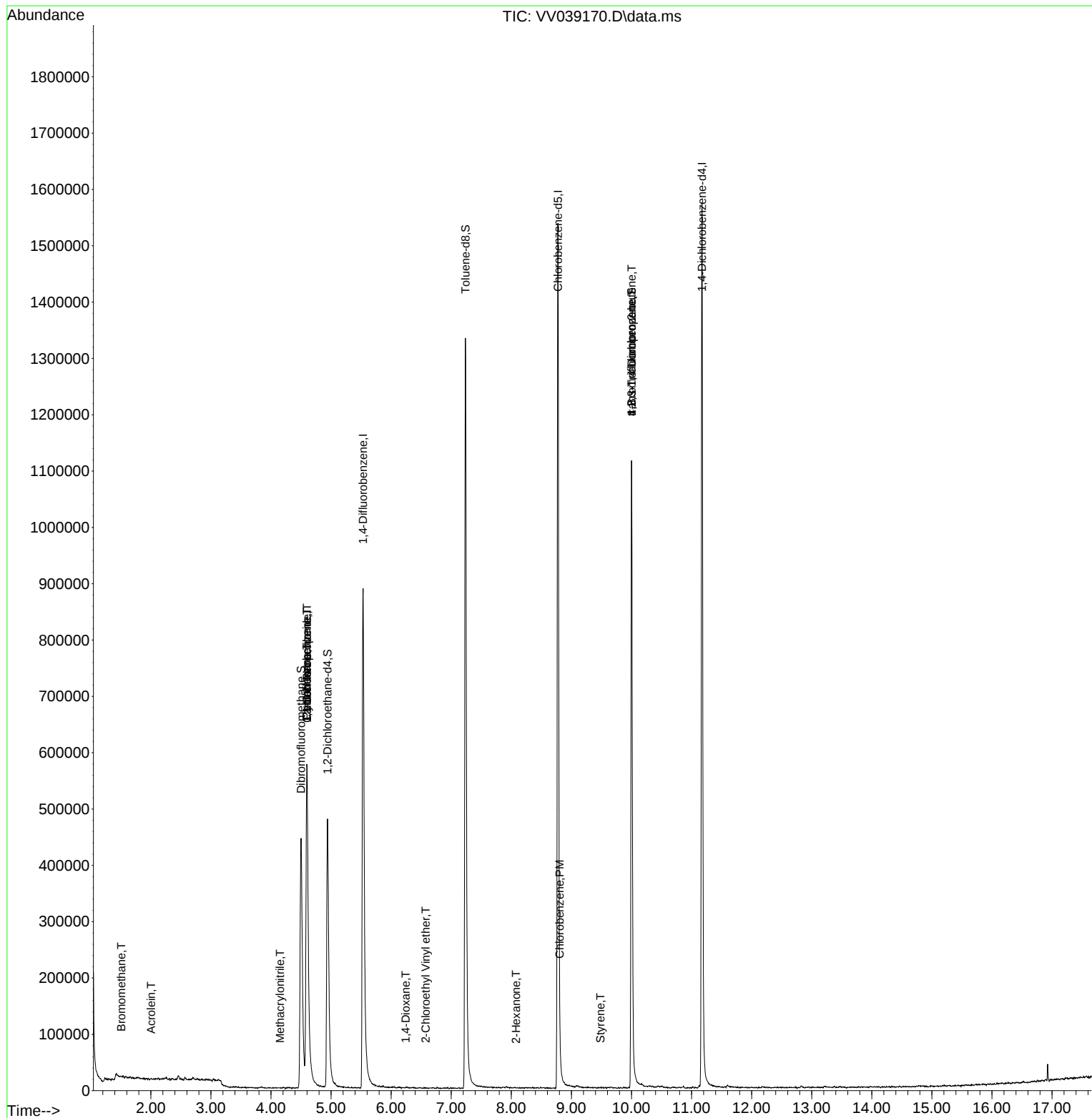
Target Compounds					Qvalue	
5) Bromomethane	1.507	94	1293	0.235	ug/l #	67
6) Chloroethane	1.539	64	813	Below Cal	#	58
13) Acrolein	2.005	56	155	0.608	ug/l #	15
16) Acetone	2.121	43	843	Below Cal	#	81
20) Methylene Chloride	2.458	84	4067	Below Cal		91
31) Cyclohexane	4.597	56	10583	0.854	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	43188	4.108	ug/l #	48
38) Carbon Tetrachloride	4.600	117	52375	4.077	ug/l #	17
41) Methacrylonitrile	4.150	41	70	1.922	ug/l #	1
49) 1,4-Dioxane	6.243	88	72	0.566	ug/l #	32
58) 2-Chloroethyl Vinyl ether	6.574	63	133	9.644	ug/l	97
59) 2-Hexanone	8.079	43	98	2.336	ug/l	83
65) Chlorobenzene	8.805	112	7764	0.320	ug/l #	82
70) Styrene	9.484	104	21	1.562	ug/l #	1
76) 1,2,3-Trichloropropane	10.001	75	184159	19.556	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	184159	46.949	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.345	75	20	Below Cal	#	5

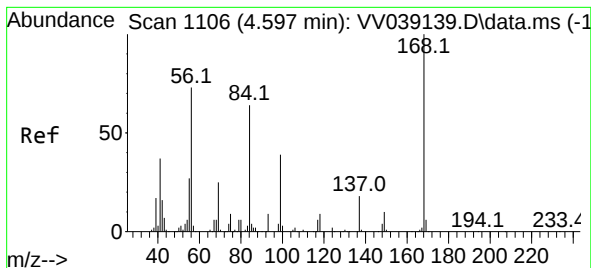
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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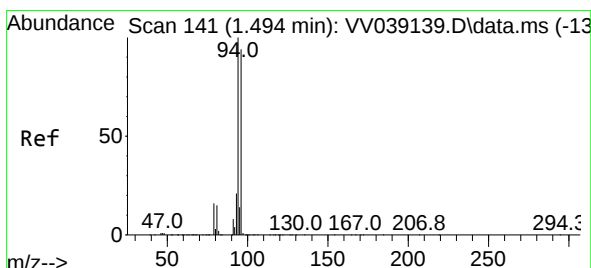
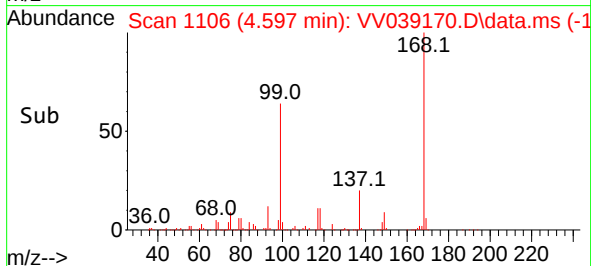
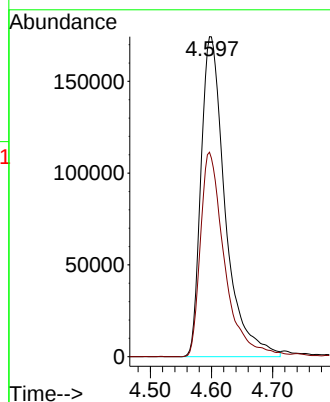
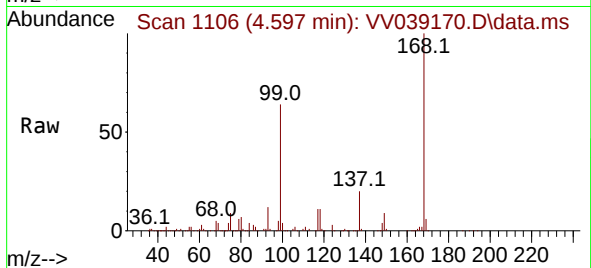




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.597 min Scan# 1106
Delta R.T. -0.000 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

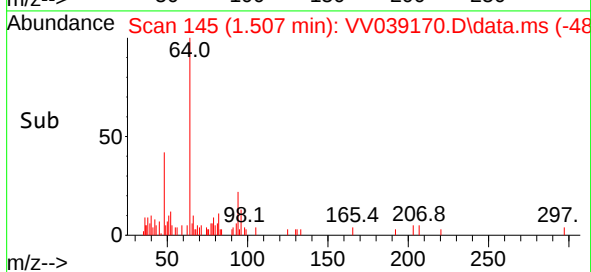
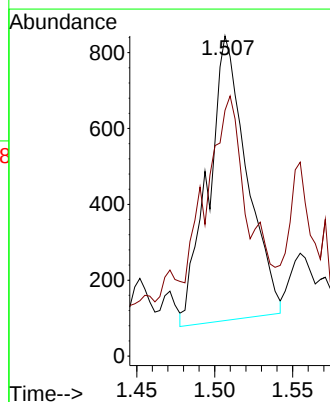
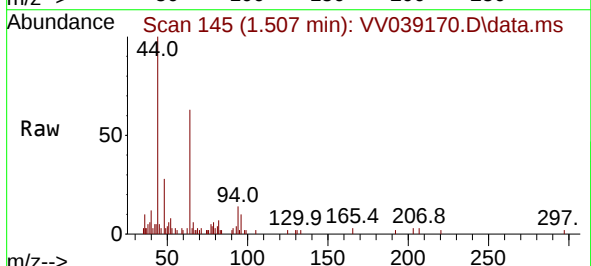
Instrument :
MSVOA_V
ClientSampleId :

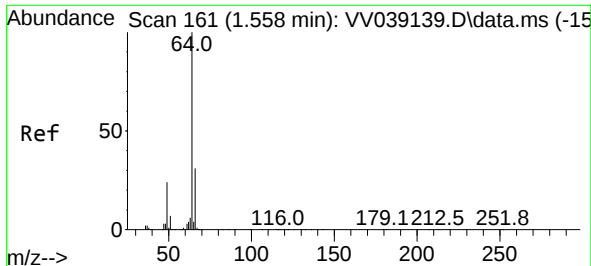
Tgt Ion:168 Resp: 480047
Ion Ratio Lower Upper
168 100
99 63.9 49.6 74.4



#5
Bromomethane
Concen: 0.235 ug/l
RT: 1.507 min Scan# 145
Delta R.T. 0.013 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Tgt Ion: 94 Resp: 1293
Ion Ratio Lower Upper
94 100
96 61.7 74.9 112.3#

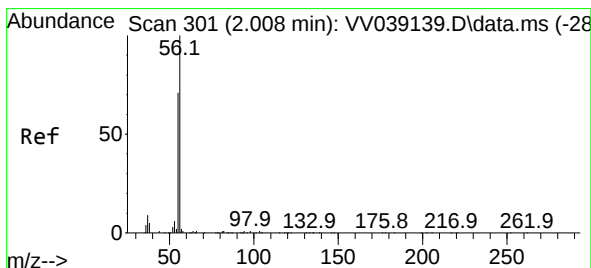
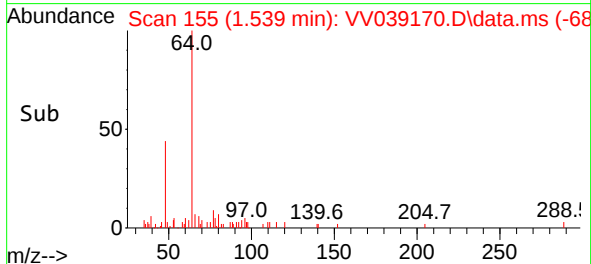
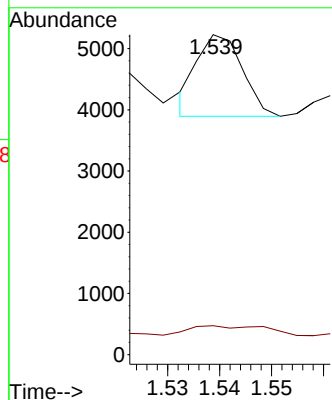
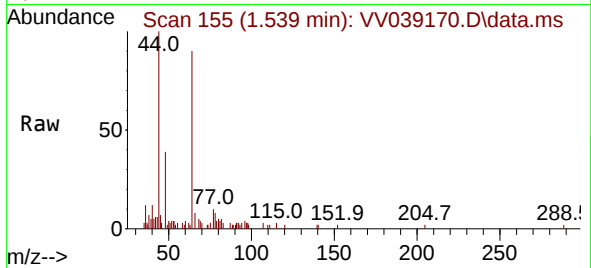




#6
Chloroethane
Concen: Below Cal
RT: 1.539 min Scan# 11
Delta R.T. -0.019 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

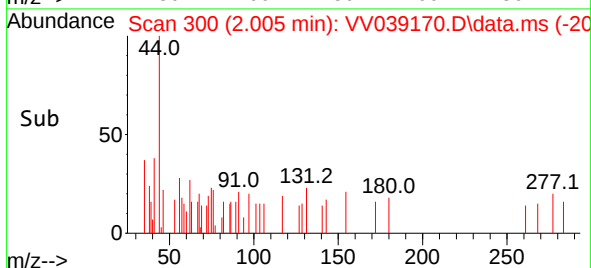
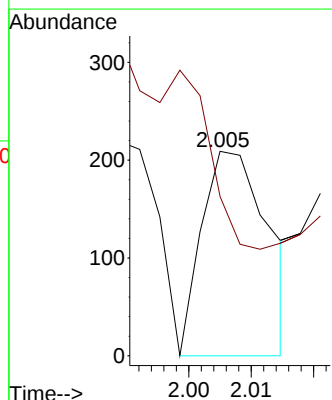
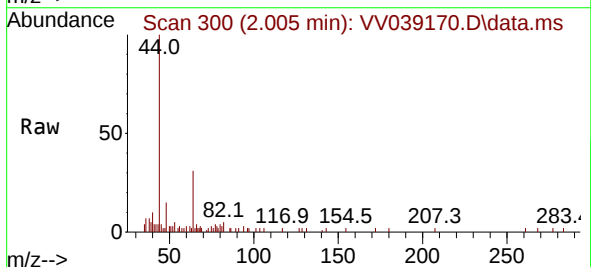
Instrument :
MSVOA_V
ClientSampleId :

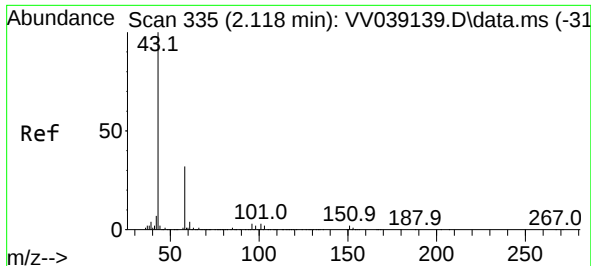
Tgt Ion: 64 Resp: 813
Ion Ratio Lower Upper
64 100
66 7.6 24.6 36.8#



#13
Acrolein
Concen: 0.608 ug/l
RT: 2.005 min Scan# 300
Delta R.T. -0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Tgt Ion: 56 Resp: 155
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#

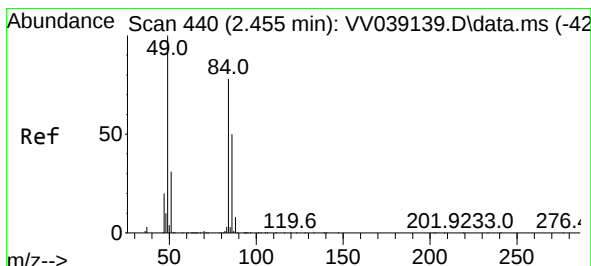
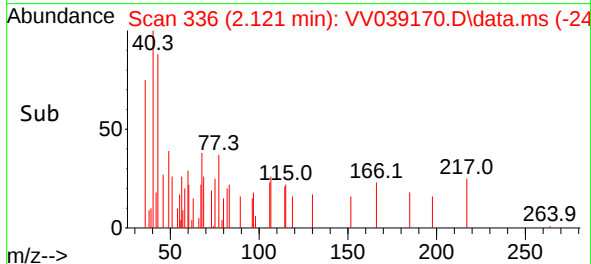
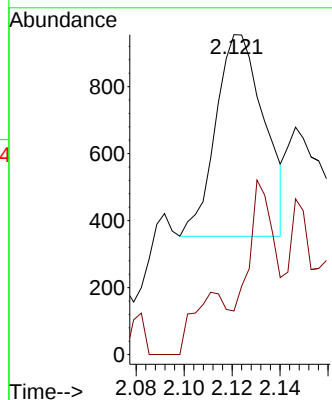
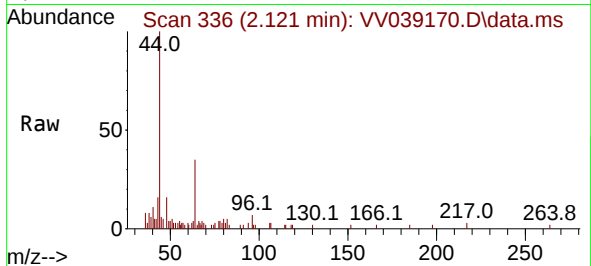




#16
Acetone
Concen: Below Cal
RT: 2.121 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

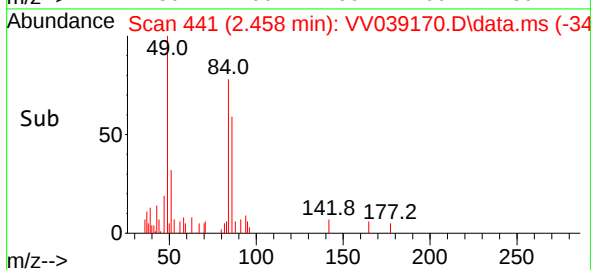
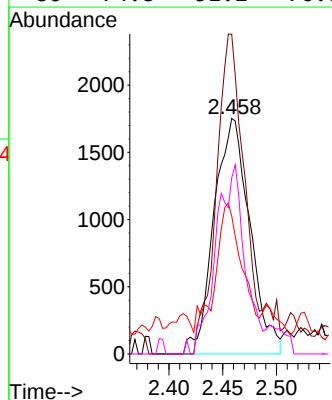
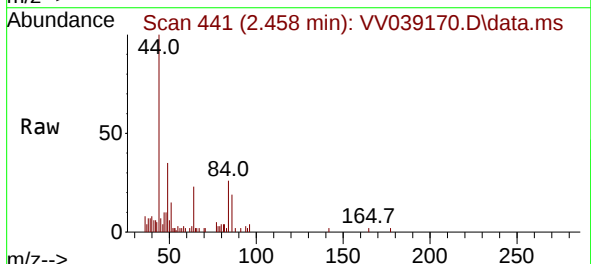
Instrument :
MSVOA_V
ClientSampleId :

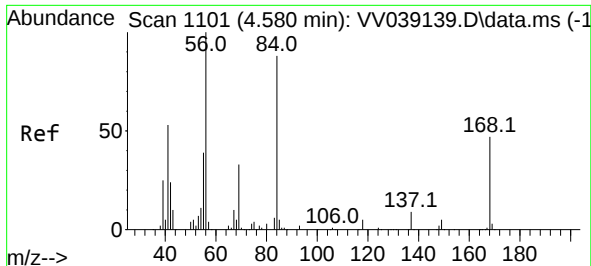
Tgt Ion: 43 Resp: 843
Ion Ratio Lower Upper
43 100
58 21.6 25.8 38.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Tgt Ion: 84 Resp: 4067
Ion Ratio Lower Upper
84 100
49 135.8 102.8 154.2
51 44.7 31.9 47.9
86 74.8 51.2 76.8

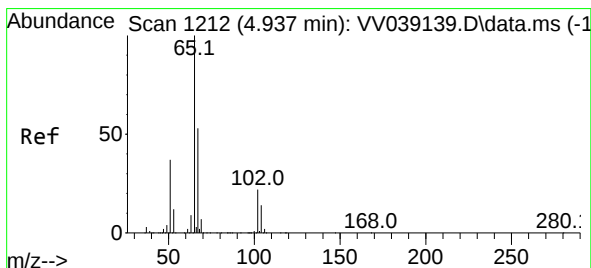
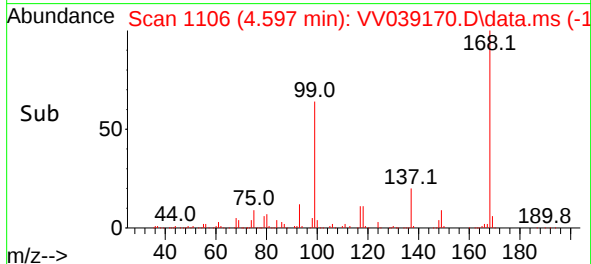
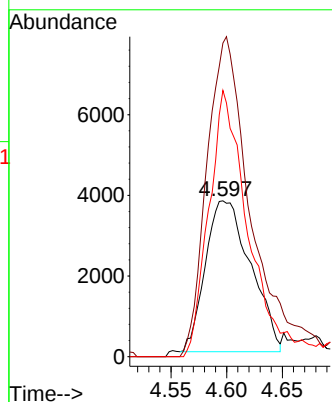
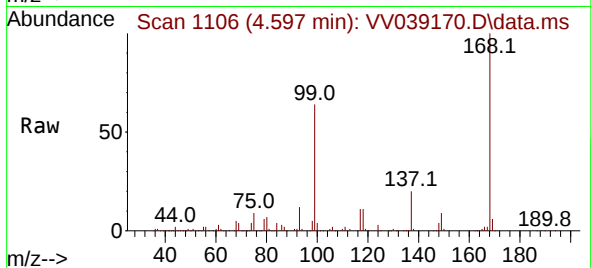




#31
Cyclohexane
Concen: 0.854 ug/l
RT: 4.597 min Scan# 1106
Delta R.T. 0.016 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

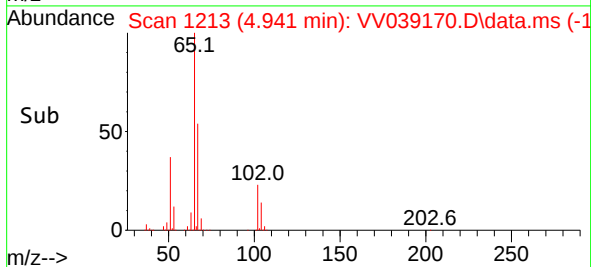
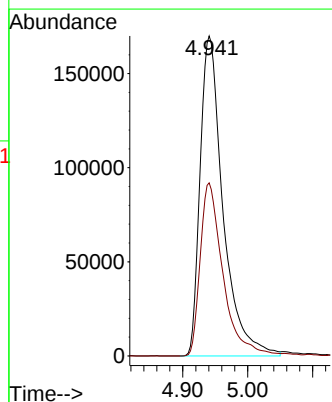
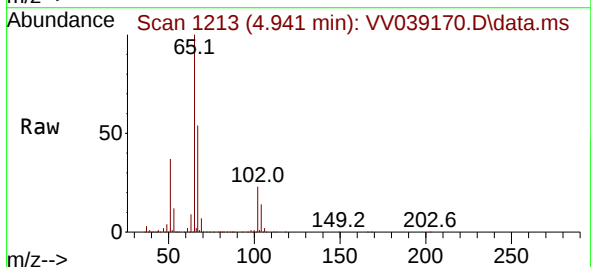
Instrument :
MSVOA_V
ClientSampleId :

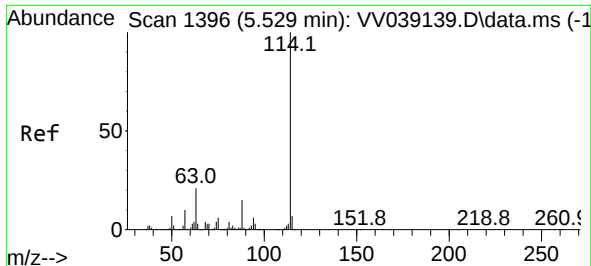
Tgt Ion: 56 Resp: 10583
Ion Ratio Lower Upper
56 100
69 207.8 26.2 39.2#
84 176.5 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 60.097 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Tgt Ion: 65 Resp: 417535
Ion Ratio Lower Upper
65 100
67 54.2 0.0 107.0

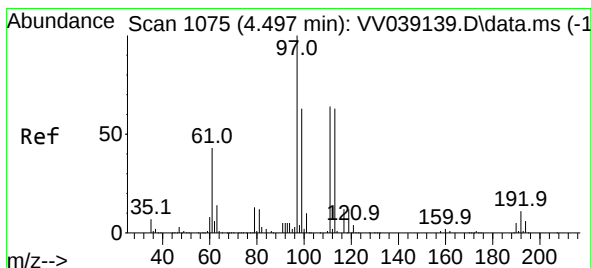
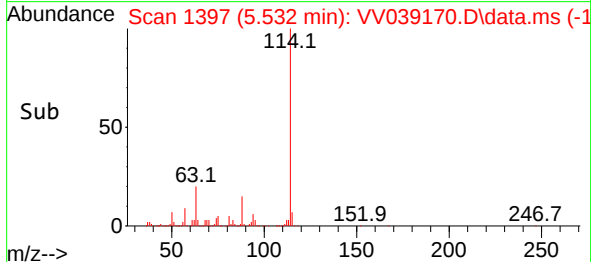
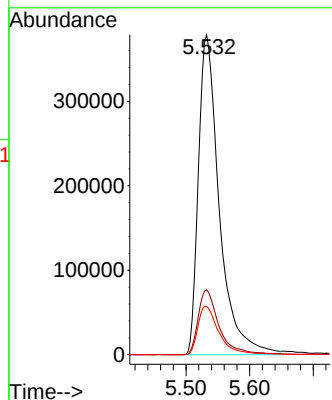
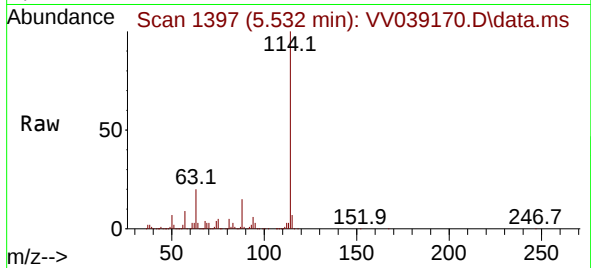




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

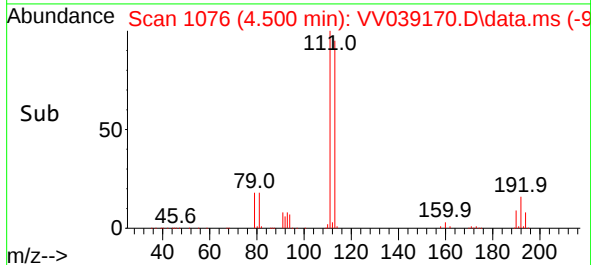
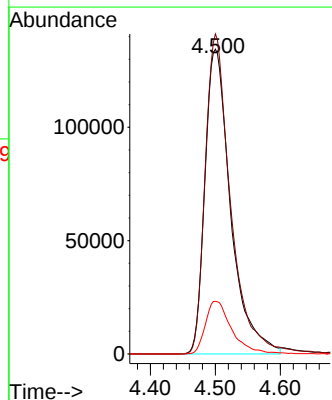
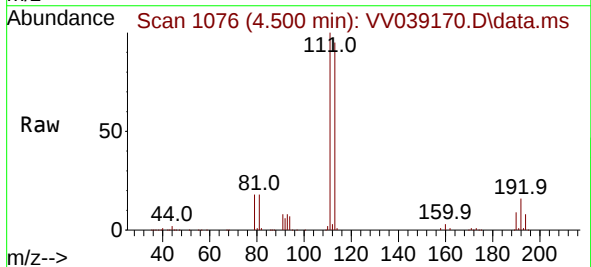
Instrument :
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ClientSampleId :

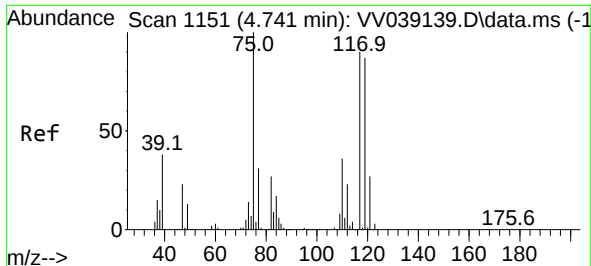
Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	42.6
88	15.1	0.0	30.8



#35
Dibromofluoromethane
Concen: 53.273 ug/l
RT: 4.500 min Scan# 1076
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.4	123.6
192	17.8	13.8	20.8

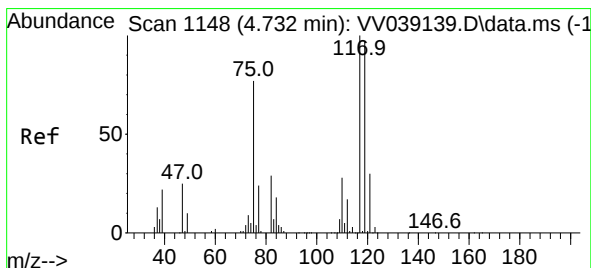
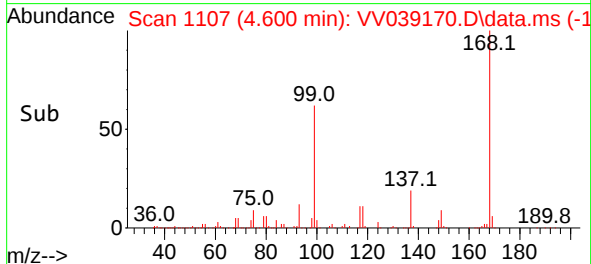
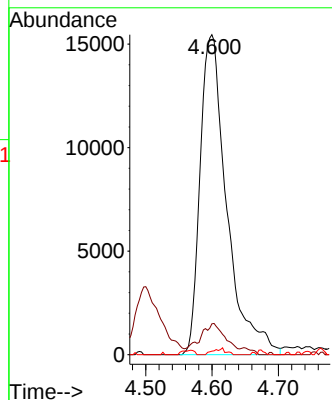
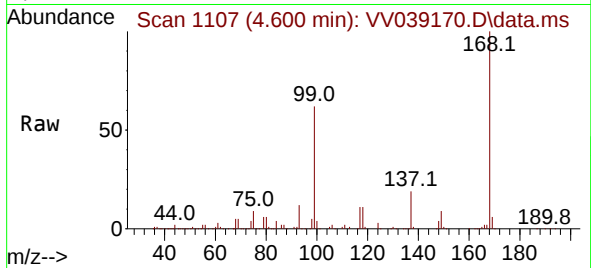




#36
 1,1-Dichloropropene
 Concen: 4.108 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. -0.141 min
 Lab File: VV039170.D
 Acq: 25 Sep 2025 11:01

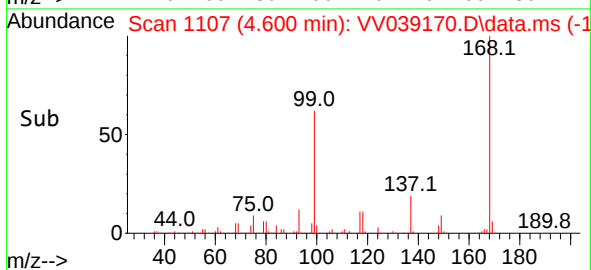
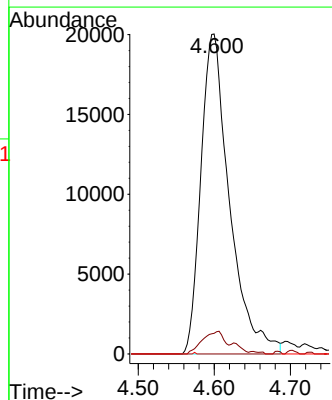
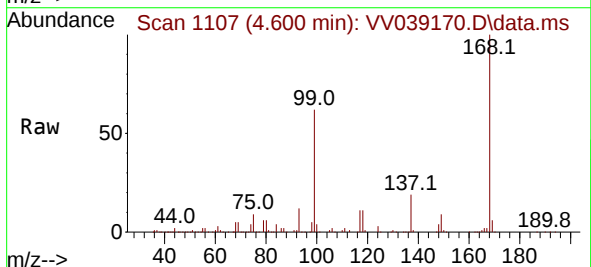
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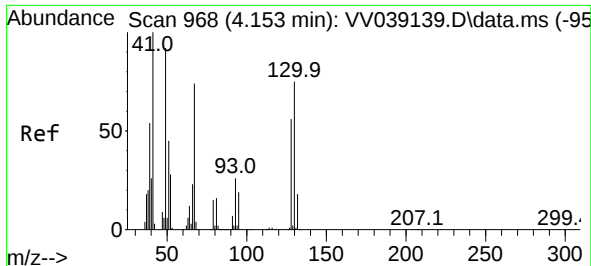
Tgt Ion: 75 Resp: 43188
 Ion Ratio Lower Upper
 75 100
 110 7.0 18.1 54.1#
 77 0.9 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 4.077 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. -0.132 min
 Lab File: VV039170.D
 Acq: 25 Sep 2025 11:01

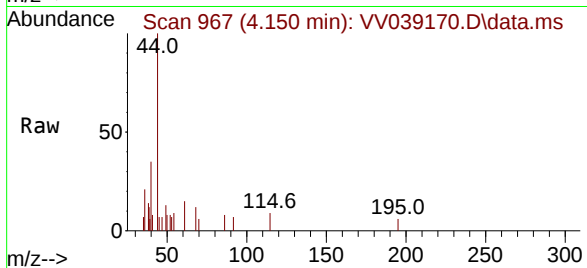
Tgt Ion: 117 Resp: 52375
 Ion Ratio Lower Upper
 117 100
 119 6.4 77.2 115.8#
 121 0.0 24.2 36.2#



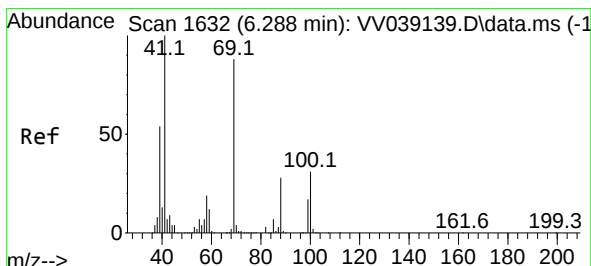
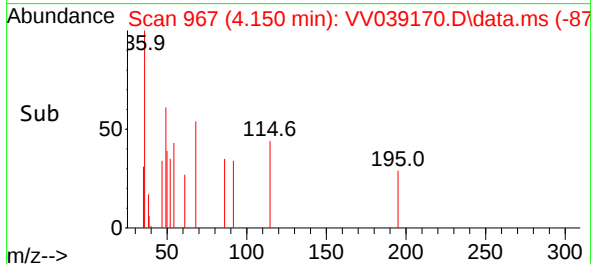
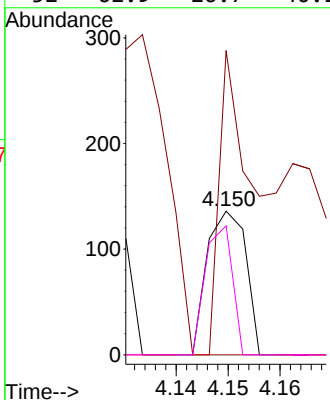


#41
Methacrylonitrile
Concen: 1.922 ug/l
RT: 4.150 min Scan# 90
Delta R.T. -0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Instrument :
MSVOA_V
ClientSampleId :

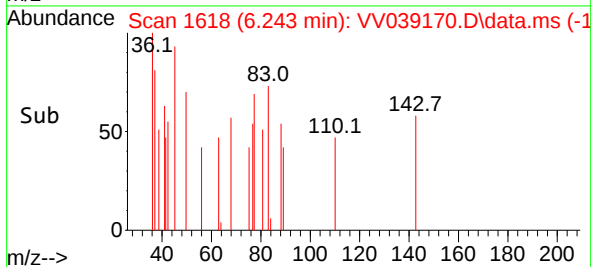
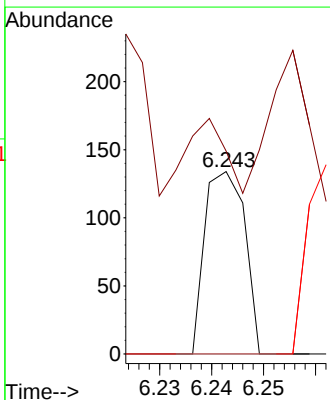
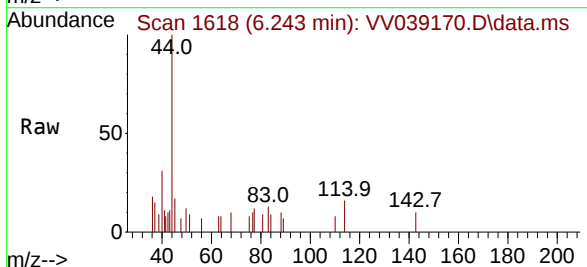


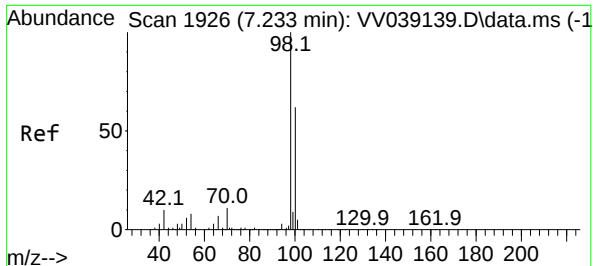
Tgt Ion:	41	Resp:	70
Ion	Ratio	Lower	Upper
41	100		
39	168.6	42.2	63.2#
67	0.0	67.9	101.9#
52	62.9	26.7	40.1#



#49
1,4-Dioxane
Concen: 0.566 ug/l
RT: 6.243 min Scan# 1618
Delta R.T. -0.045 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Tgt Ion:	88	Resp:	72
Ion	Ratio	Lower	Upper
88	100		
43	50.0	25.1	37.7#
58	0.0	53.6	80.4#





#50

Toluene-d8

Concen: 47.302 ug/l

RT: 7.236 min Scan# 1926

Delta R.T. 0.003 min

Lab File: VV039170.D

Acq: 25 Sep 2025 11:01

Instrument :

MSVOA_V

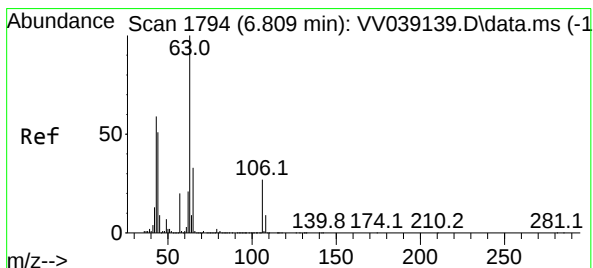
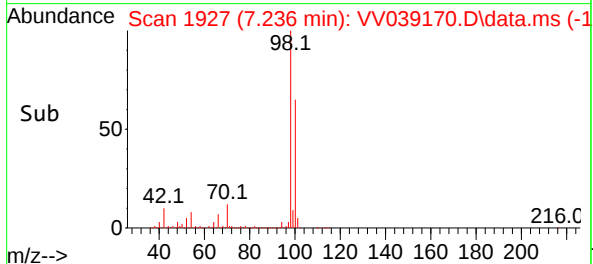
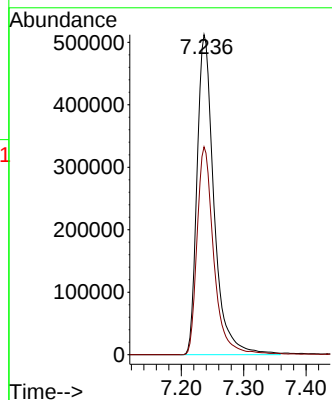
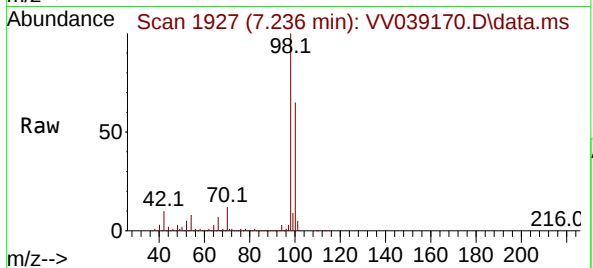
ClientSampleId :

Tgt Ion: 98 Resp: 965988

Ion Ratio Lower Upper

98 100

100 64.0 52.2 78.2



#58

2-Chloroethyl Vinyl ether

Concen: 9.644 ug/l

RT: 6.574 min Scan# 1721

Delta R.T. -0.235 min

Lab File: VV039170.D

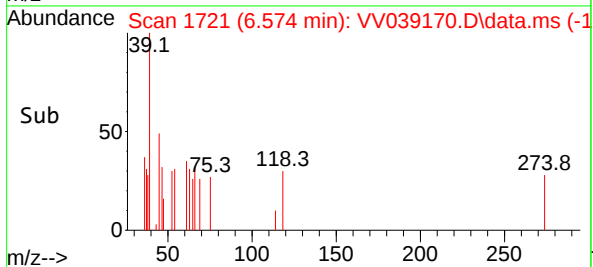
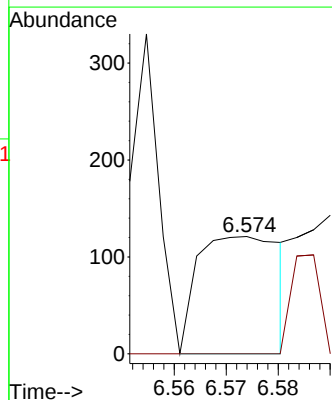
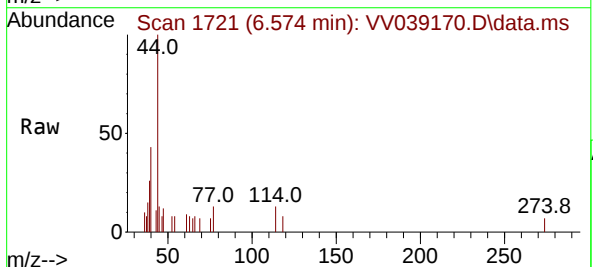
Acq: 25 Sep 2025 11:01

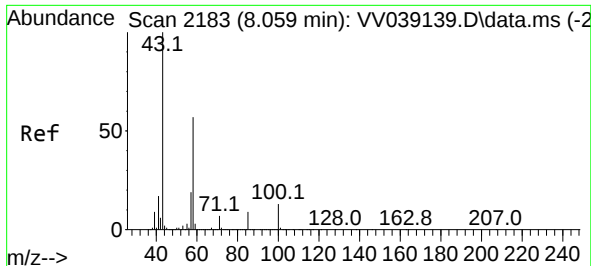
Tgt Ion: 63 Resp: 133

Ion Ratio Lower Upper

63 100

106 29.3 22.1 33.1





#59

2-Hexanone

Concen: 2.336 ug/l

RT: 8.079 min Scan# 2183

Delta R.T. 0.020 min

Lab File: VV039170.D

Acq: 25 Sep 2025 11:01

Instrument :

MSVOA_V

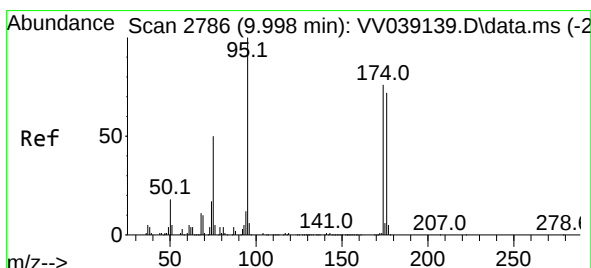
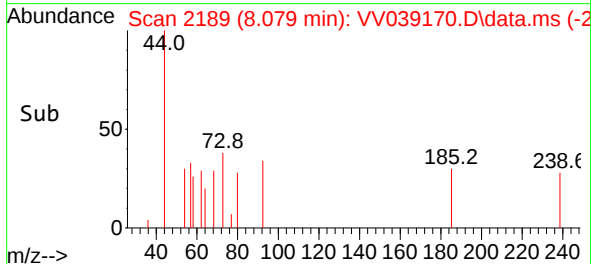
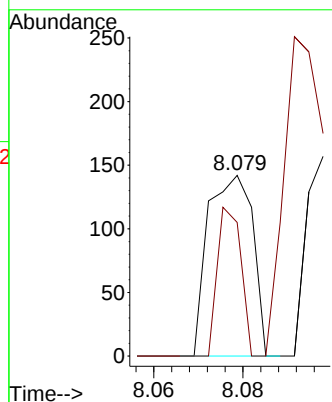
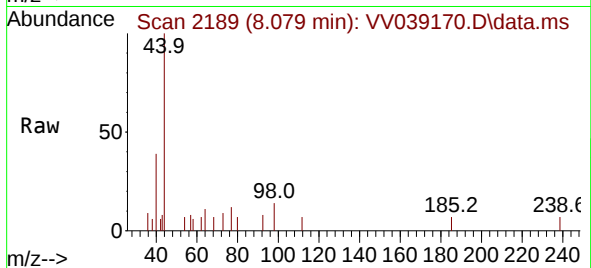
ClientSampleId :

Tgt Ion: 43 Resp: 98

Ion Ratio Lower Upper

43 100

58 43.9 28.3 85.0



#62

4-Bromofluorobenzene

Concen: 44.133 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.003 min

Lab File: VV039170.D

Acq: 25 Sep 2025 11:01

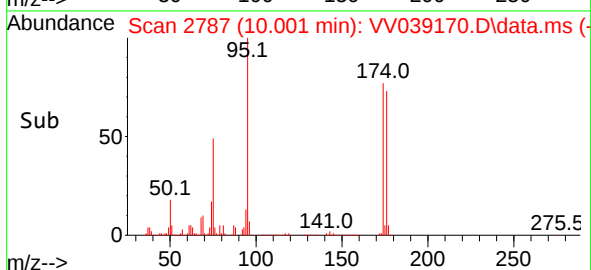
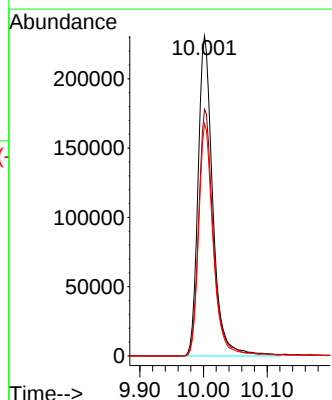
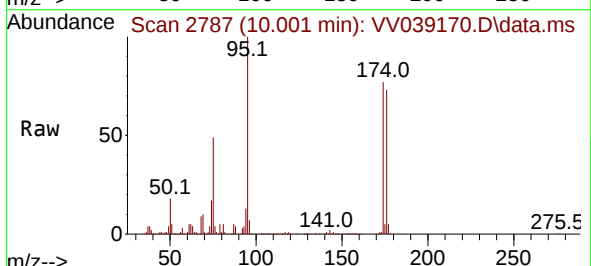
Tgt Ion: 95 Resp: 371030

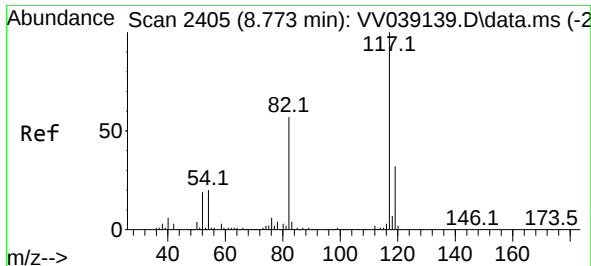
Ion Ratio Lower Upper

95 100

174 77.2 0.0 150.4

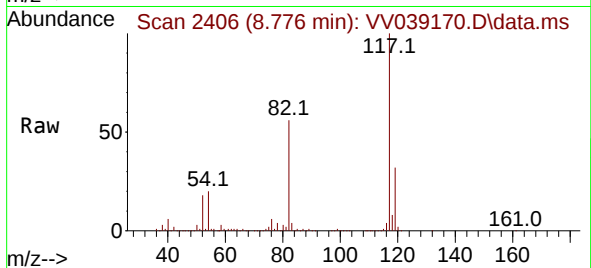
176 71.4 0.0 144.2



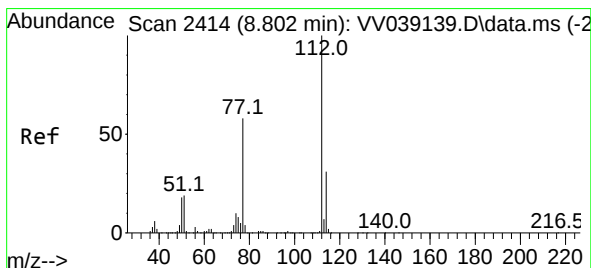
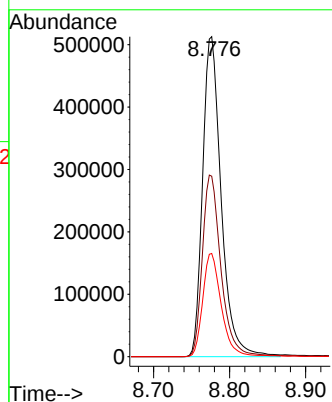
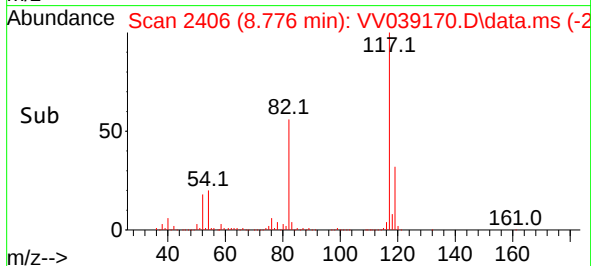


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Instrument :
MSVOA_V
ClientSampleId :

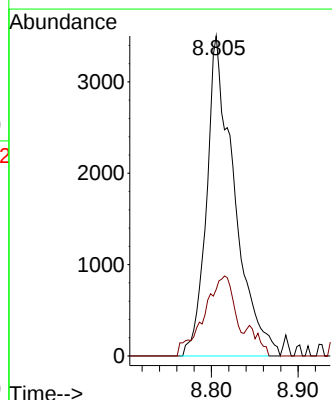
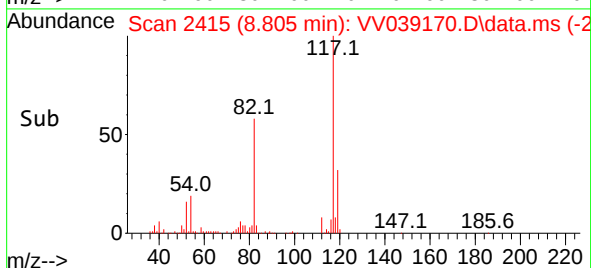
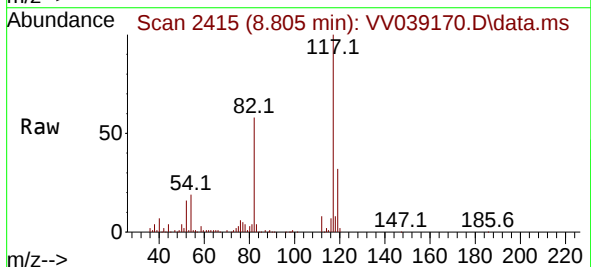


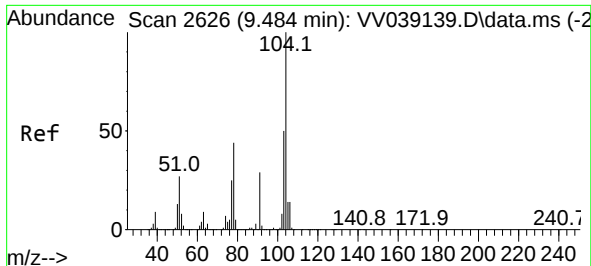
Tgt Ion:117 Resp: 870930
Ion Ratio Lower Upper
117 100
82 56.4 45.4 68.2
119 32.3 25.6 38.4



#65
Chlorobenzene
Concen: 0.320 ug/l
RT: 8.805 min Scan# 2415
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Tgt Ion:112 Resp: 7764
Ion Ratio Lower Upper
112 100
114 20.8 24.6 37.0#

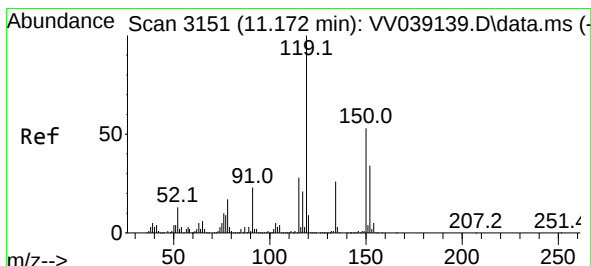
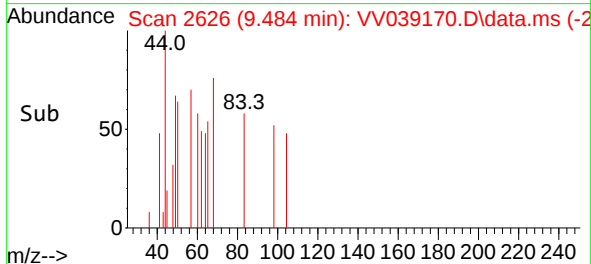
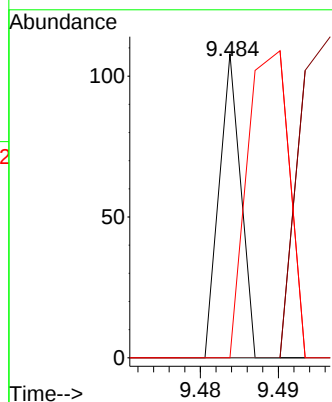
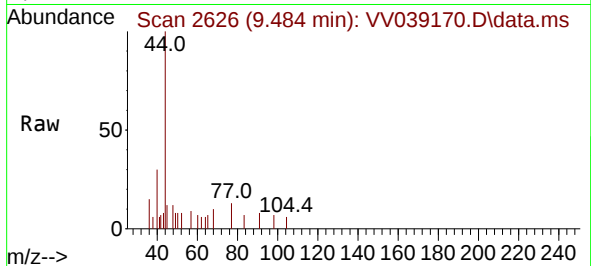




#70
Styrene
Concen: 1.562 ug/l
RT: 9.484 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

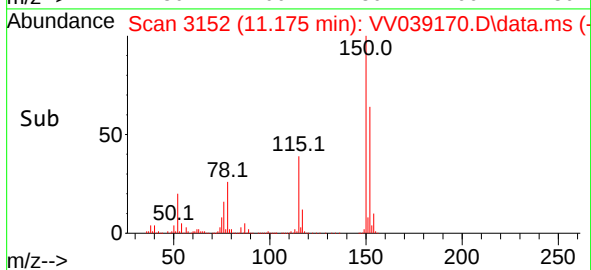
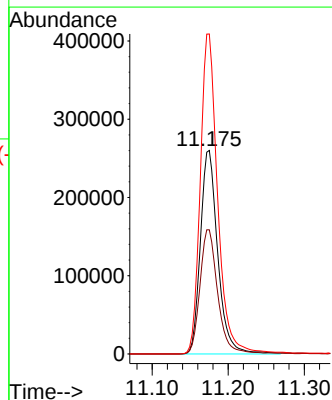
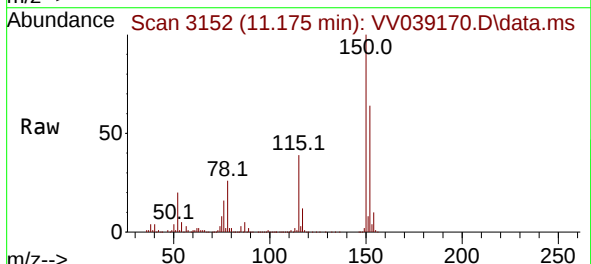
Instrument :
MSVOA_V
ClientSampleId :

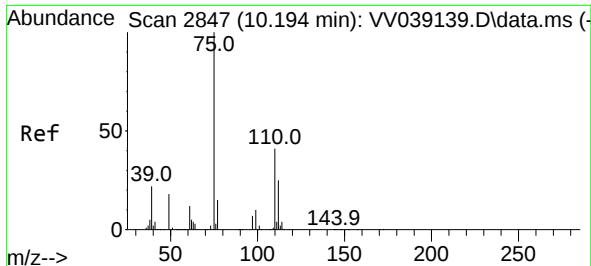
Tgt Ion:104 Resp: 21
Ion Ratio Lower Upper
104 100
78 200.0 39.8 59.6#
103 195.2 43.4 65.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Tgt Ion:152 Resp: 413592
Ion Ratio Lower Upper
152 100
115 62.1 44.8 134.4
150 158.0 0.0 353.8

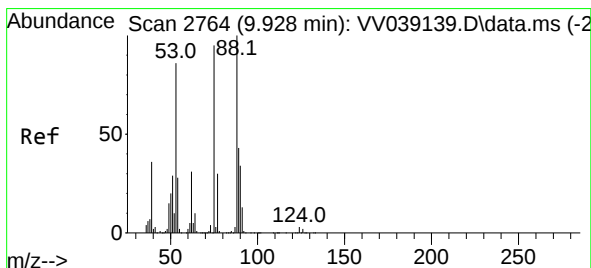
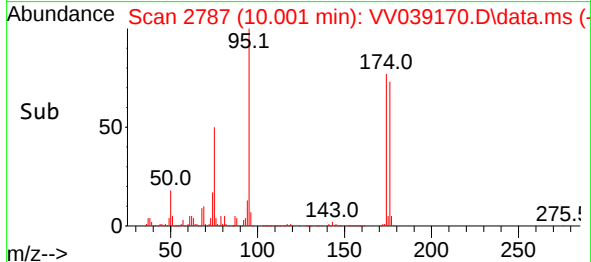
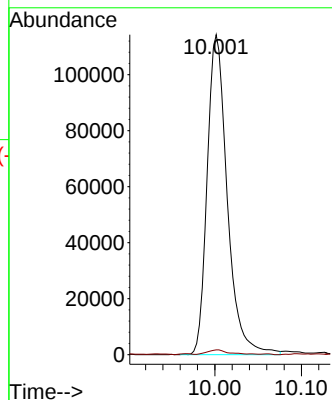
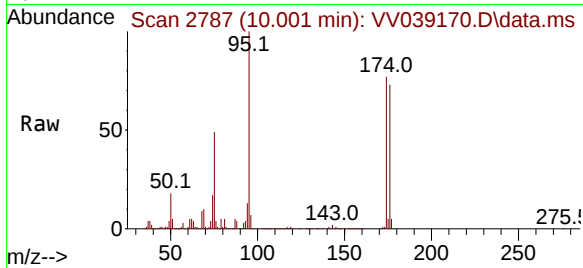




#76
1,2,3-Trichloropropane
Concen: 19.556 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. -0.193 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

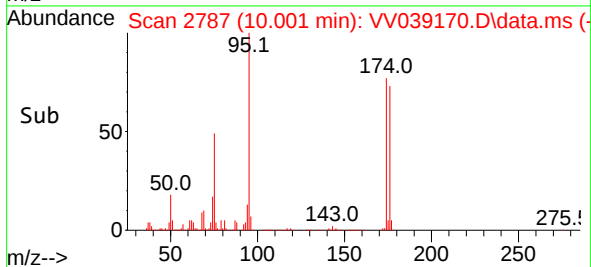
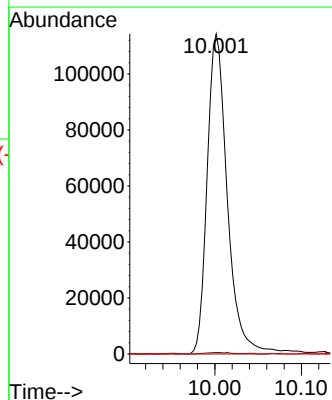
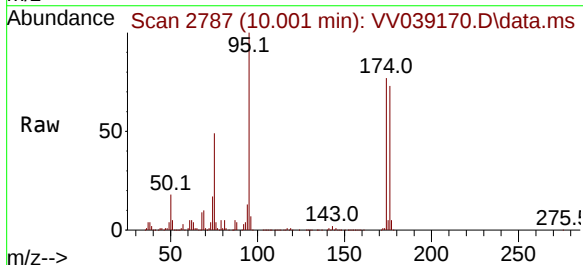
Instrument :
MSVOA_V
ClientSampleId :

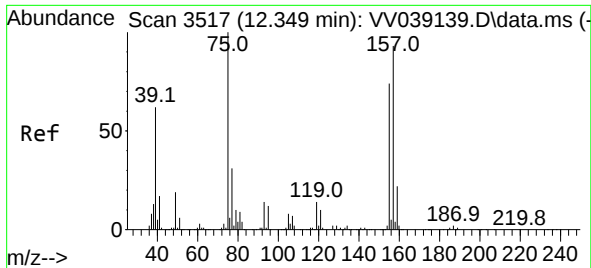
Tgt Ion: 75 Resp: 184159
Ion Ratio Lower Upper
75 100
77 1.4 11.3 33.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 46.949 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.074 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

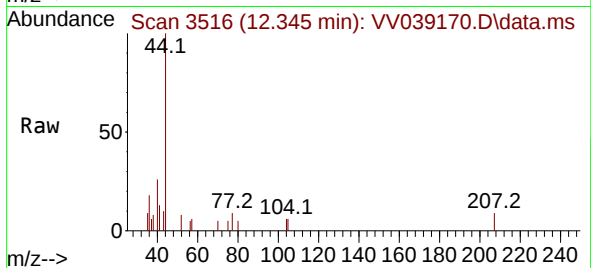
Tgt Ion: 75 Resp: 184159
Ion Ratio Lower Upper
75 100
53 0.5 72.5 108.7#
89 0.0 37.2 55.8#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 12.345 min Scan# 31
 Delta R.T. -0.004 min
 Lab File: VV039170.D
 Acq: 25 Sep 2025 11:01

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion: 75 Resp: 20
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.6 115.8#
 157 0.0 49.5 148.3#

