

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
 Data File : VV039188.D
 Acq On : 25 Sep 2025 17:47
 Operator : SY/MD
 Sample : Q3195-24
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 26 01:35:14 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)

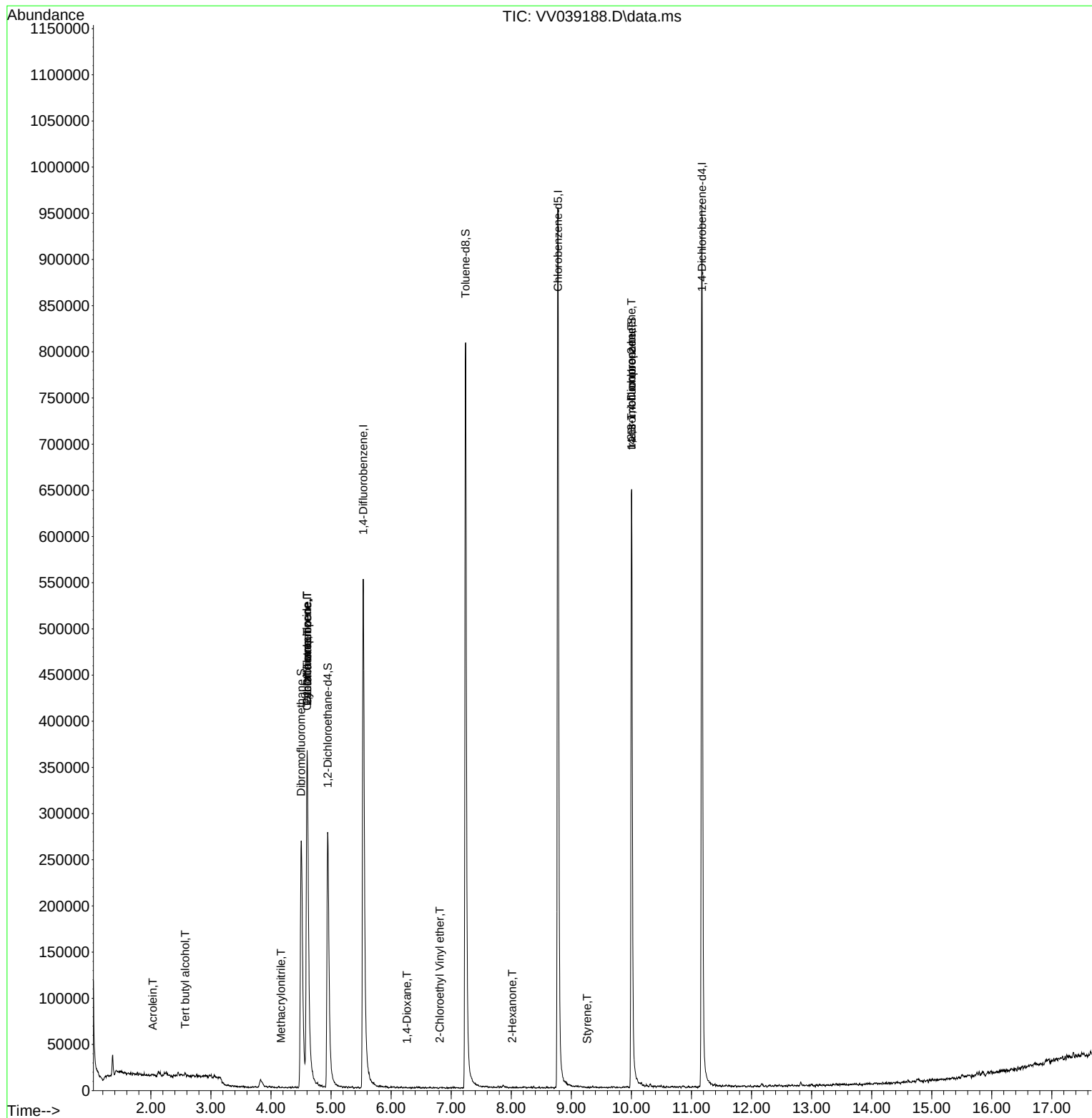
Internal Standards						
1) Pentafluorobenzene	4.603	168	315041	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	553359	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	549470	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	261018	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	252908	55.467	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 110.940%	
35) Dibromofluoromethane	4.503	113	229182	51.518	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 103.040%	
50) Toluene-d8	7.240	98	600984	45.998	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 92.000%	
62) 4-Bromofluorobenzene	10.005	95	234432	43.585	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 87.180%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.626	64	662	Below Cal	#	88
11) Tert butyl alcohol	2.571	59	856	0.888	ug/l	98
13) Acrolein	2.034	56	560	3.349	ug/l #	50
16) Acetone	2.124	43	5728	Below Cal		98
20) Methylene Chloride	2.452	84	1861	Below Cal	#	79
31) Cyclohexane	4.603	56	6612	0.813	ug/l #	1
36) 1,1-Dichloropropene	4.603	75	26031	3.870	ug/l #	47
38) Carbon Tetrachloride	4.600	117	33814	4.114	ug/l #	17
41) Methacrylonitrile	4.169	41	79	1.931	ug/l #	32
49) 1,4-Dioxane	6.265	88	50	0.614	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.812	63	72	9.641	ug/l #	47
59) 2-Hexanone	8.014	43	125	2.347	ug/l	99
70) Styrene	9.262	104	20	1.563	ug/l #	1
76) 1,2,3-Trichloropropane	10.001	75	115929	19.507	ug/l #	55
81) trans-1,4-Dichloro-2-b...	10.001	75	115929	46.830	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.358	75	77	Below Cal	#	5

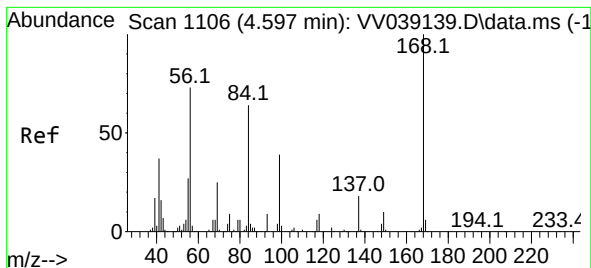
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
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QLast Update : Wed Sep 24 08:08:08 2025
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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: VV039188.D

Acq: 25 Sep 2025 17:47

Instrument :

MSVOA_V

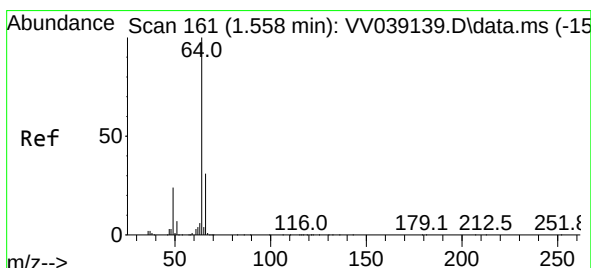
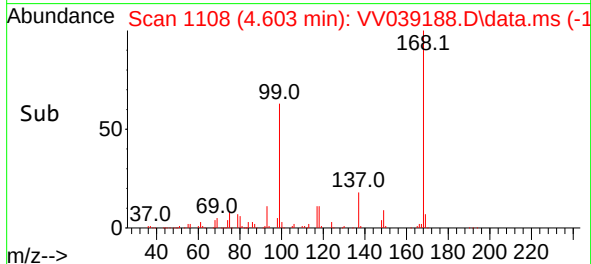
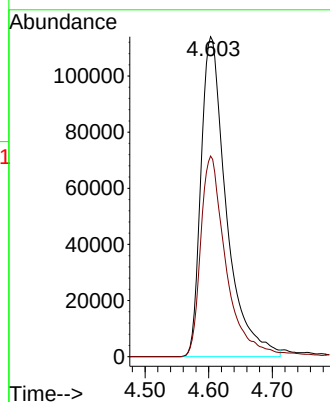
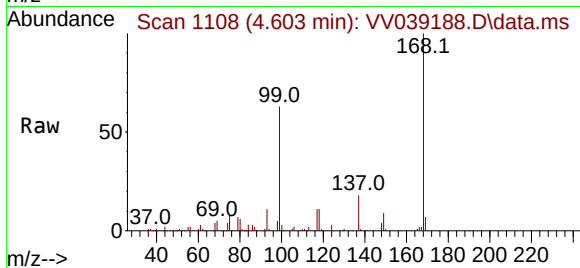
ClientSampleId :

Tgt Ion:168 Resp: 315041

Ion Ratio Lower Upper

168 100

99 62.7 49.6 74.4



#6

Chloroethane

Concen: Below Cal

RT: 1.626 min Scan# 182

Delta R.T. 0.068 min

Lab File: VV039188.D

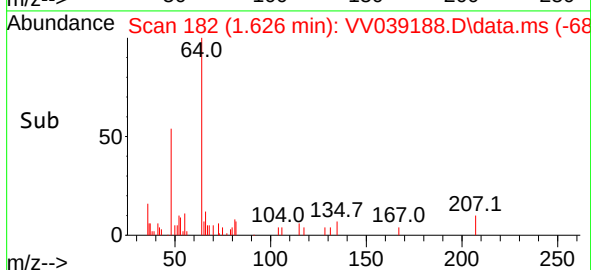
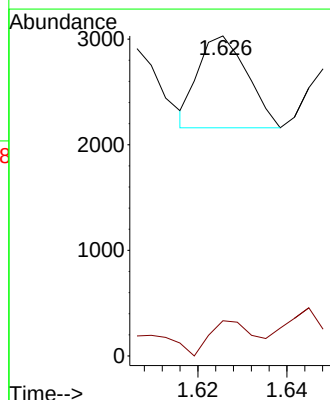
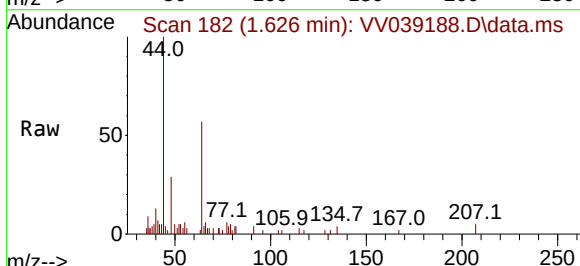
Acq: 25 Sep 2025 17:47

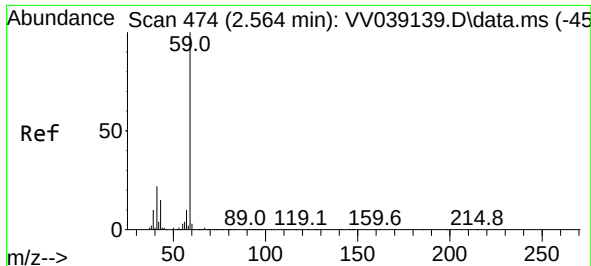
Tgt Ion: 64 Resp: 662

Ion Ratio Lower Upper

64 100

66 24.3 24.6 36.8#

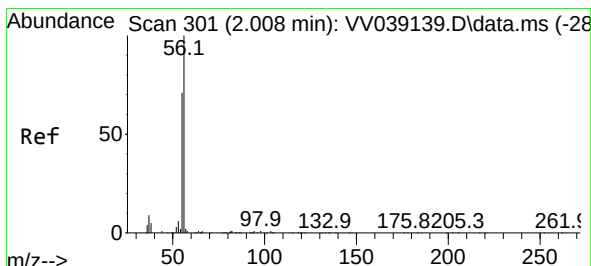
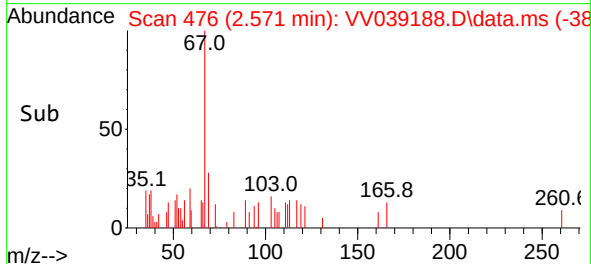
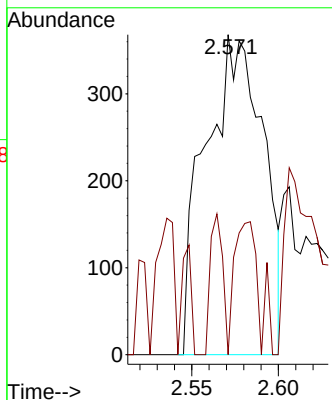
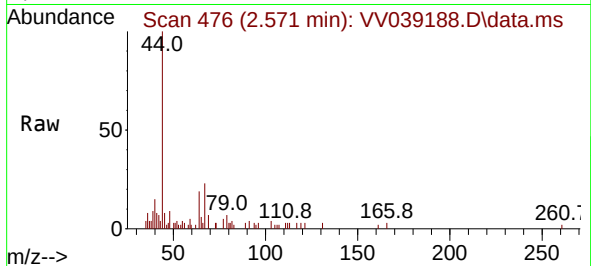




#11
Tert butyl alcohol
Concen: 0.888 ug/l
RT: 2.571 min Scan# 41
Delta R.T. 0.006 min
Lab File: VV039188.D
Acq: 25 Sep 2025 17:47

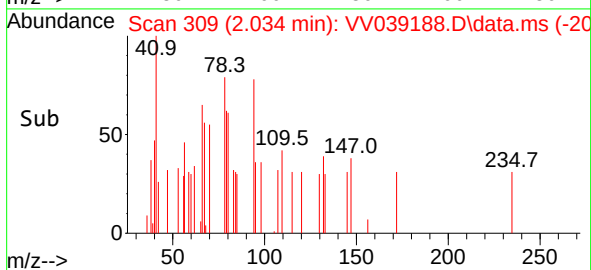
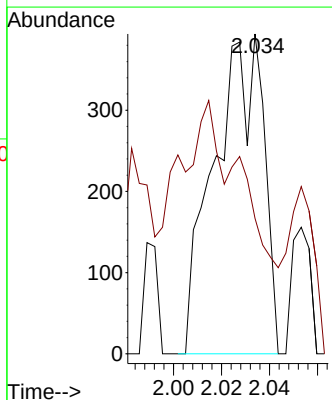
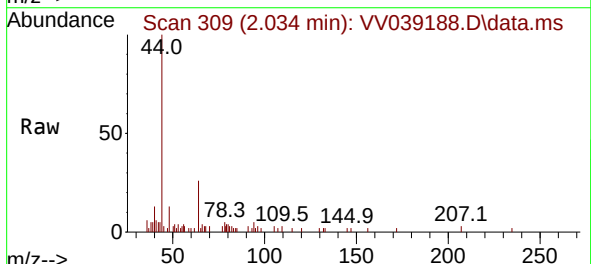
Instrument :
MSVOA_V
ClientSampleId :

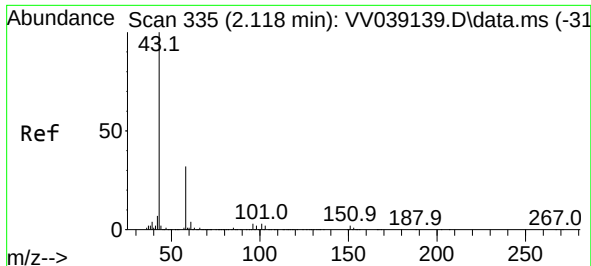
Tgt Ion: 59 Resp: 856
Ion Ratio Lower Upper
59 100
57 9.2 7.8 11.8



#13
Acrolein
Concen: 3.349 ug/l
RT: 2.034 min Scan# 309
Delta R.T. 0.026 min
Lab File: VV039188.D
Acq: 25 Sep 2025 17:47

Tgt Ion: 56 Resp: 560
Ion Ratio Lower Upper
56 100
55 29.1 56.2 84.4#

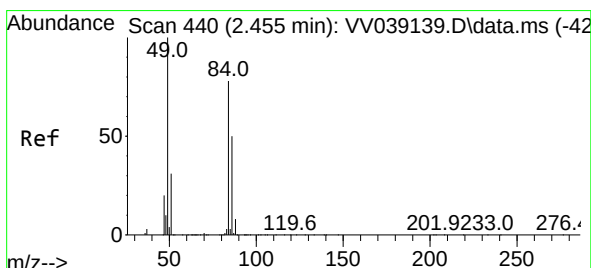
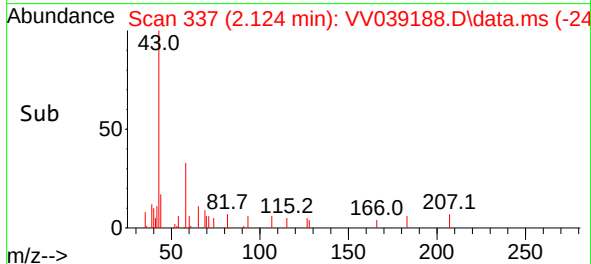
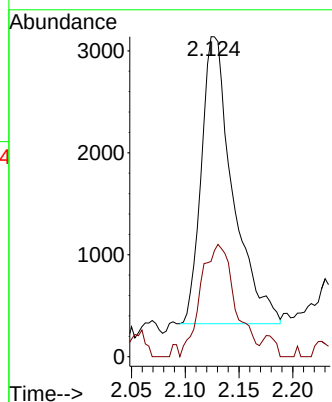
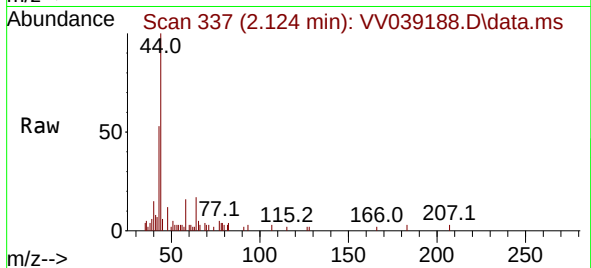




#16
Acetone
Concen: Below Cal
RT: 2.124 min Scan# 31
Delta R.T. 0.006 min
Lab File: VV039188.D
Acq: 25 Sep 2025 17:47

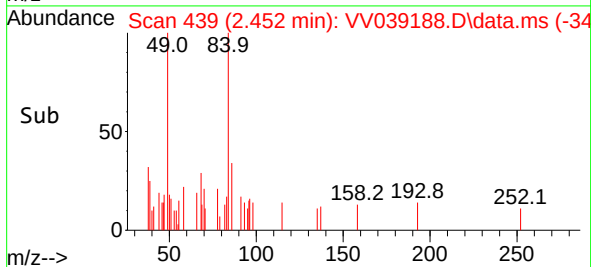
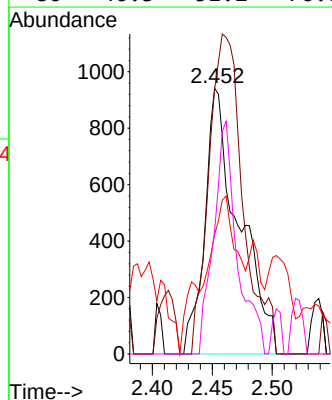
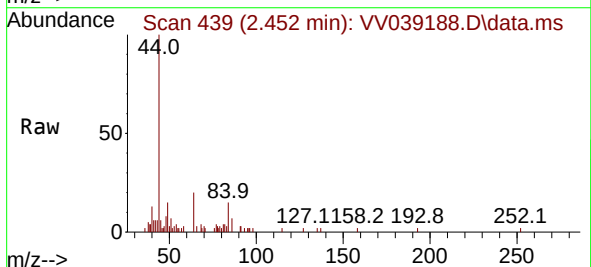
Instrument :
MSVOA_V
ClientSampleId :

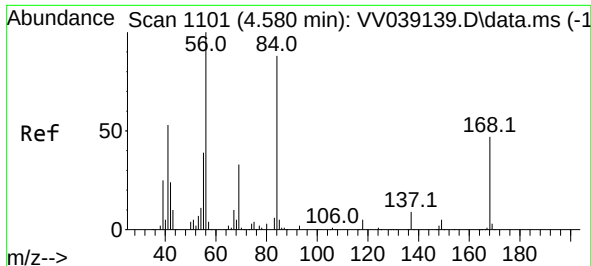
Tgt Ion: 43 Resp: 5728
Ion Ratio Lower Upper
43 100
58 33.3 25.8 38.6



#20
Methylene Chloride
Concen: Below Cal
RT: 2.452 min Scan# 439
Delta R.T. -0.003 min
Lab File: VV039188.D
Acq: 25 Sep 2025 17:47

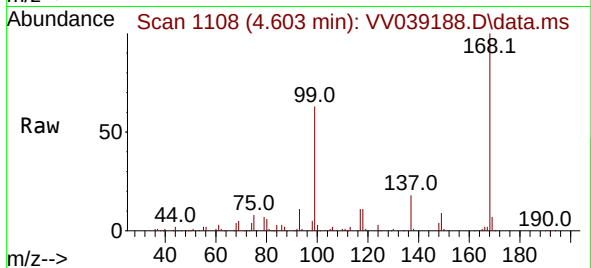
Tgt Ion: 84 Resp: 1861
Ion Ratio Lower Upper
84 100
49 99.6 102.8 154.2#
51 44.9 31.9 47.9
86 46.3 51.2 76.8#



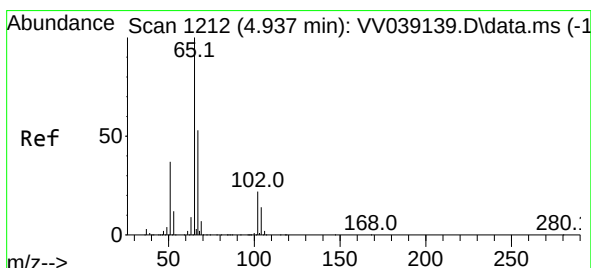
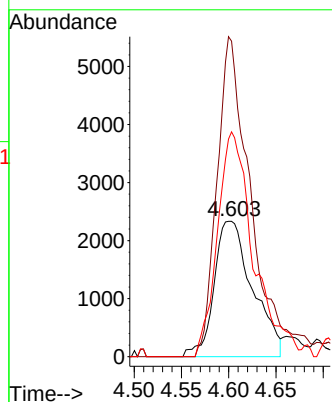
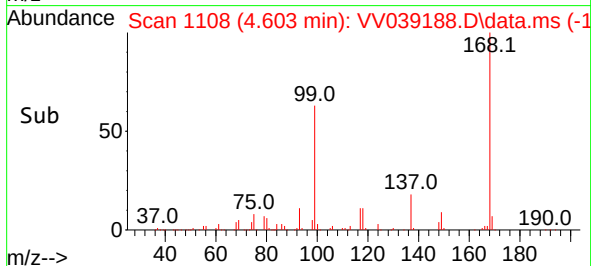


#31
Cyclohexane
Concen: 0.813 ug/l
RT: 4.603 min Scan# 1101
Delta R.T. 0.023 min
Lab File: VV039188.D
Acq: 25 Sep 2025 17:47

Instrument :
MSVOA_V
ClientSampleId :

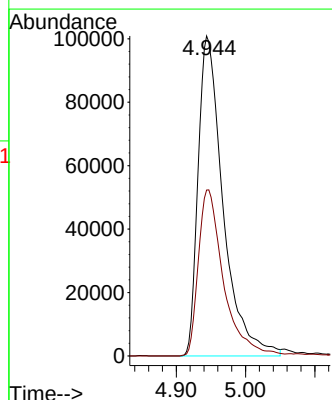
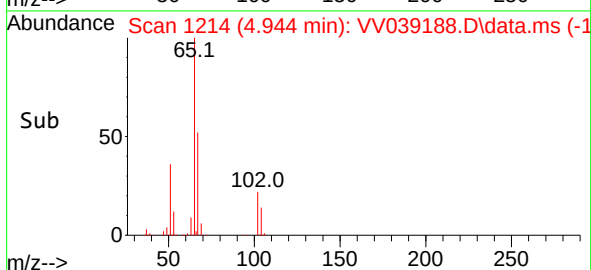
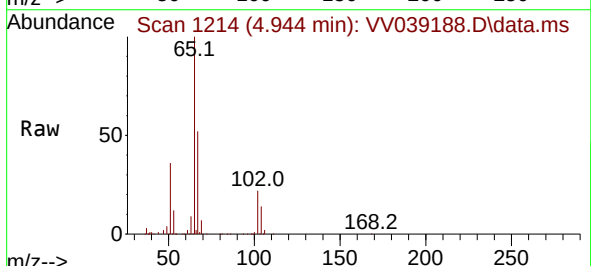


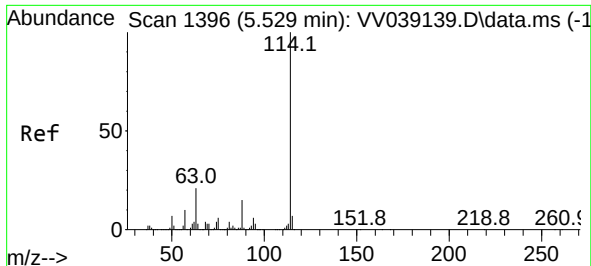
Tgt Ion: 56 Resp: 6612
Ion Ratio Lower Upper
56 100
69 233.0 26.2 39.2#
84 166.0 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 55.467 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039188.D
Acq: 25 Sep 2025 17:47

Tgt Ion: 65 Resp: 252908
Ion Ratio Lower Upper
65 100
67 52.3 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 114

Delta R.T. 0.006 min

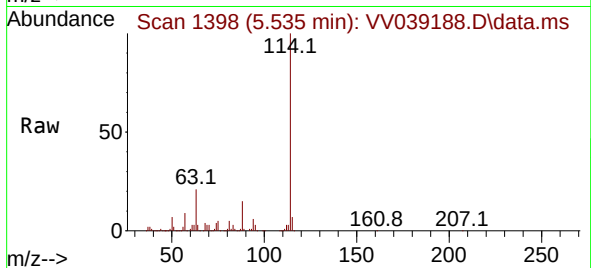
Lab File: VV039188.D

Acq: 25 Sep 2025 17:47

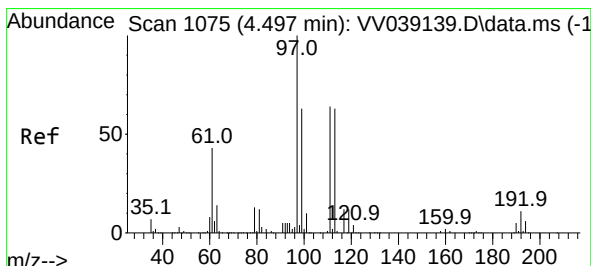
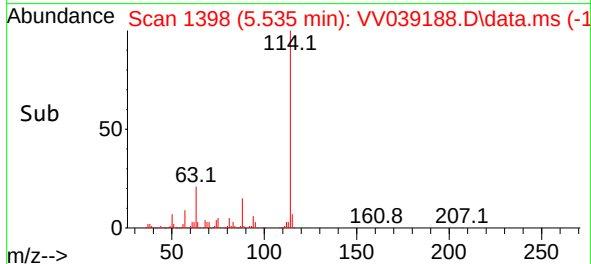
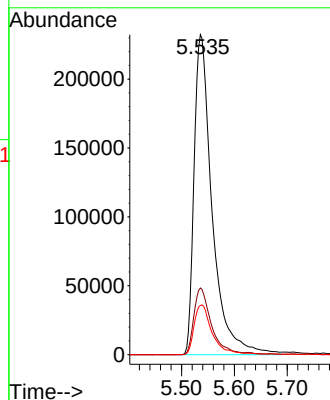
Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:114	Resp:	553359
Ion	Ratio	Lower Upper
114	100	
63	20.8	0.0 42.6
88	15.4	0.0 30.8



#35

Dibromofluoromethane

Concen: 51.518 ug/l

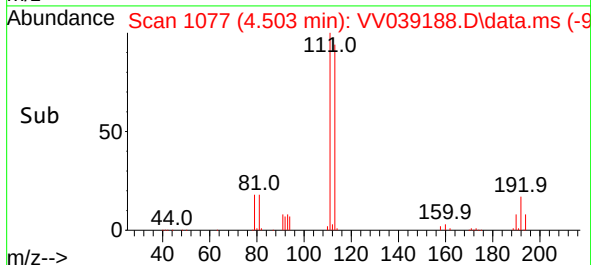
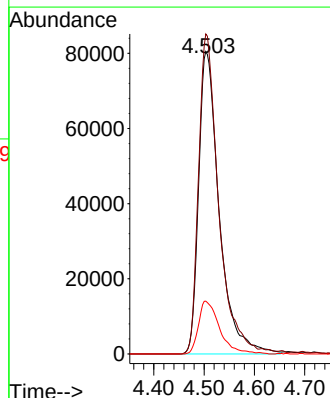
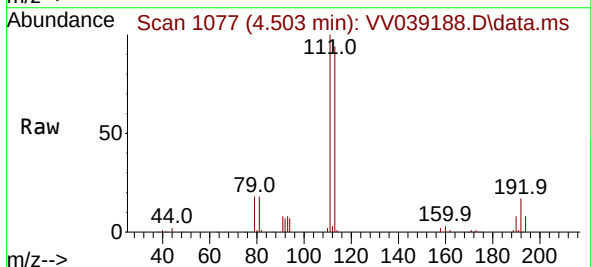
RT: 4.503 min Scan# 1077

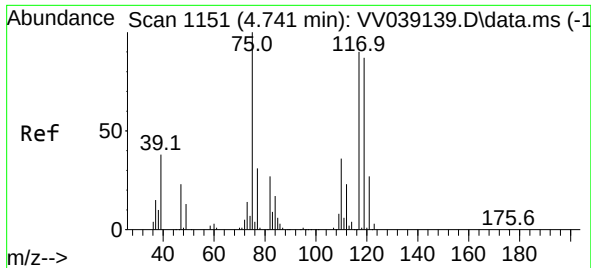
Delta R.T. 0.006 min

Lab File: VV039188.D

Acq: 25 Sep 2025 17:47

Tgt Ion:113	Resp:	229182
Ion	Ratio	Lower Upper
113	100	
111	102.3	82.4 123.6
192	17.8	13.8 20.8

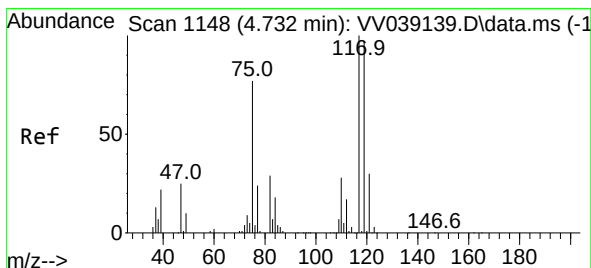
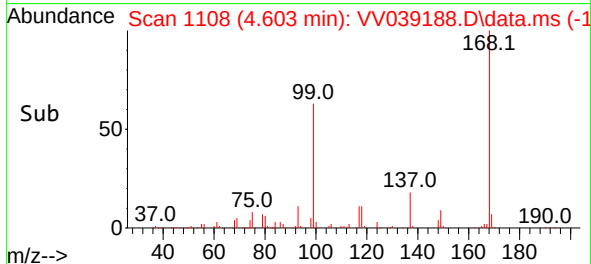
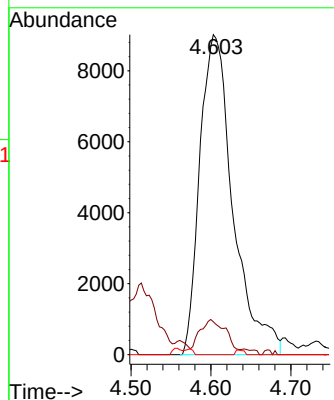
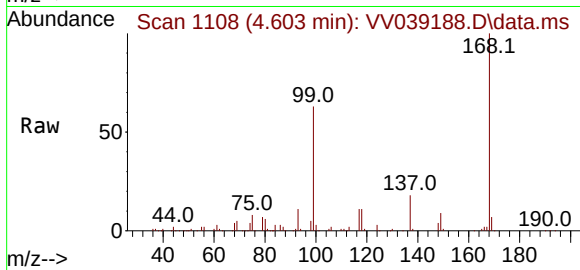




#36
 1,1-Dichloropropene
 Concen: 3.870 ug/l
 RT: 4.603 min Scan# 1108
 Delta R.T. -0.138 min
 Lab File: VV039188.D
 Acq: 25 Sep 2025 17:47

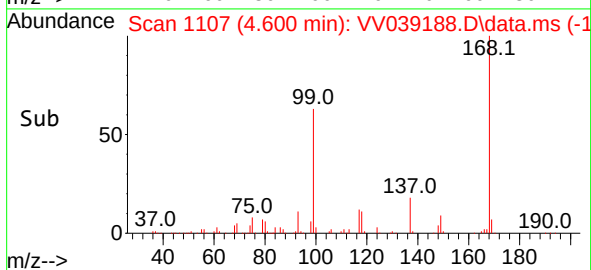
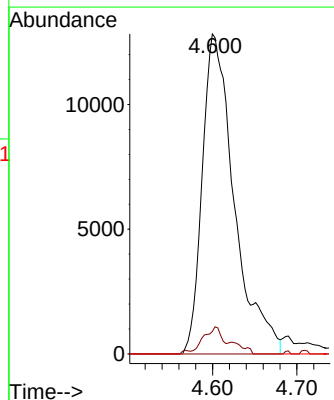
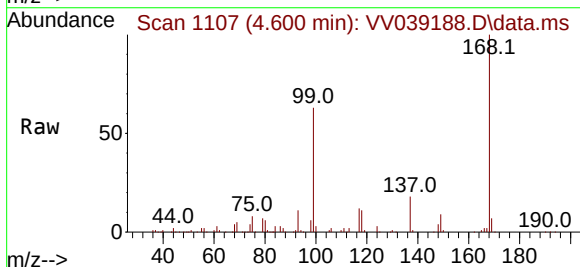
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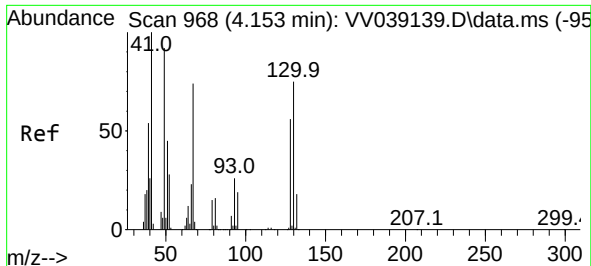
Tgt Ion: 75 Resp: 26031
 Ion Ratio Lower Upper
 75 100
 110 7.1 18.1 54.1#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 4.114 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. -0.132 min
 Lab File: VV039188.D
 Acq: 25 Sep 2025 17:47

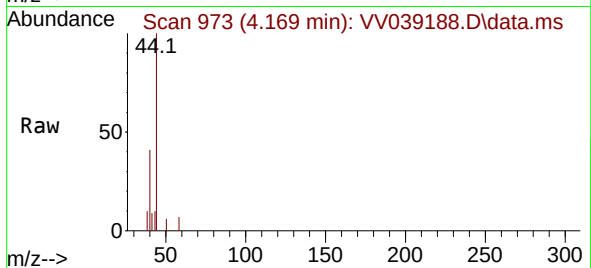
Tgt Ion: 117 Resp: 33814
 Ion Ratio Lower Upper
 117 100
 119 7.1 77.2 115.8#
 121 0.0 24.2 36.2#



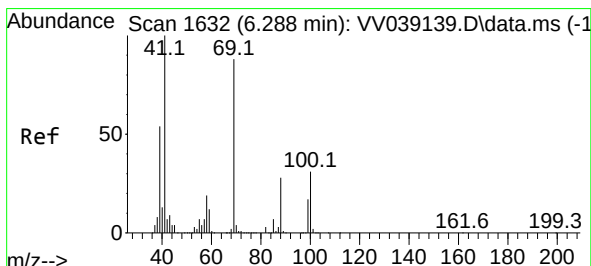
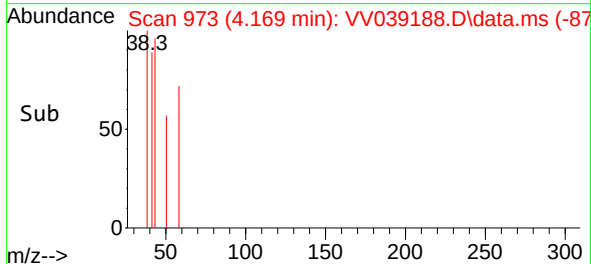
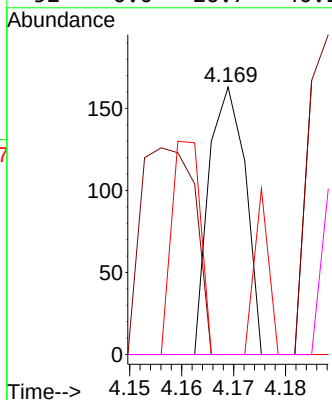


#41
Methacrylonitrile
Concen: 1.931 ug/l
RT: 4.169 min Scan# 91
Delta R.T. 0.016 min
Lab File: VV039188.D
Acq: 25 Sep 2025 17:47

Instrument :
MSVOA_V
ClientSampleId :

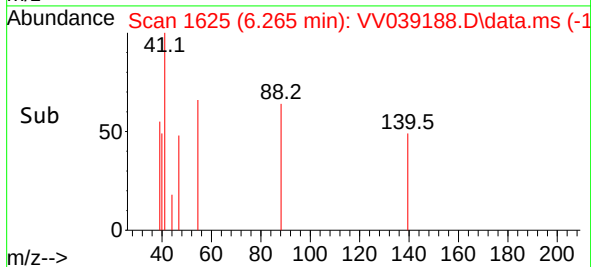
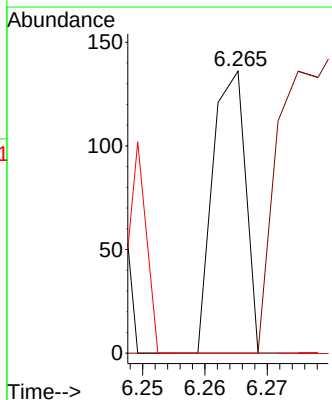
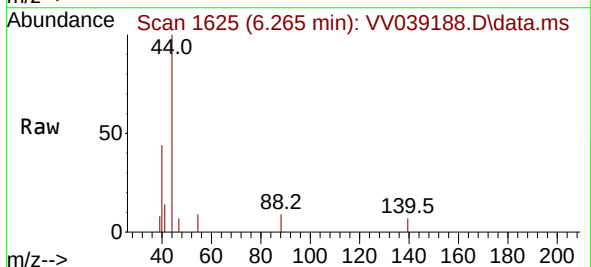


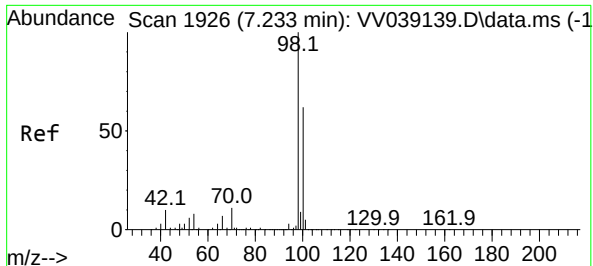
Tgt Ion	Ratio	Lower	Upper
41	100		
39	0.0	42.2	63.2#
67	24.1	67.9	101.9#
52	0.0	26.7	40.1#



#49
1,4-Dioxane
Concen: 0.614 ug/l
RT: 6.265 min Scan# 1625
Delta R.T. -0.022 min
Lab File: VV039188.D
Acq: 25 Sep 2025 17:47

Tgt Ion	Ratio	Lower	Upper
88	100		
43	312.0	25.1	37.7#
58	0.0	53.6	80.4#

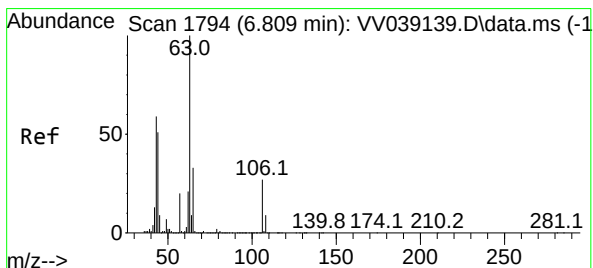
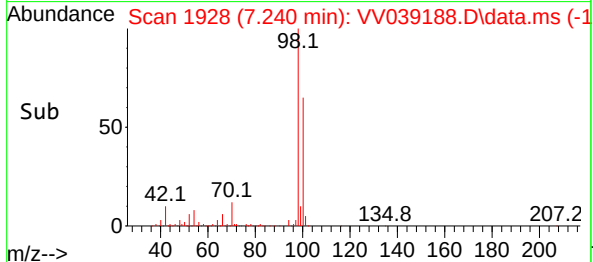
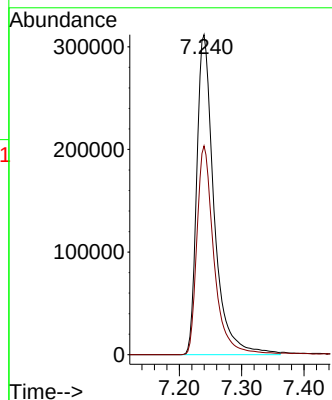
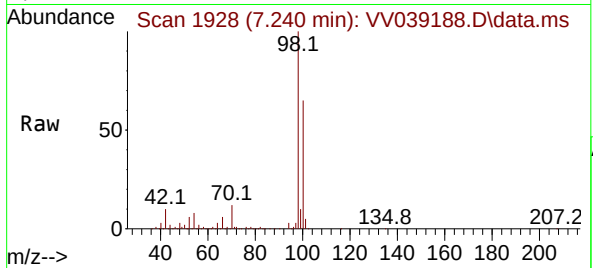




#50
Toluene-d8
Concen: 45.998 ug/l
RT: 7.240 min Scan# 1926
Delta R.T. 0.006 min
Lab File: VV039188.D
Acq: 25 Sep 2025 17:47

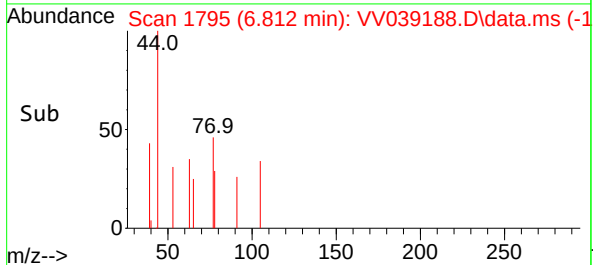
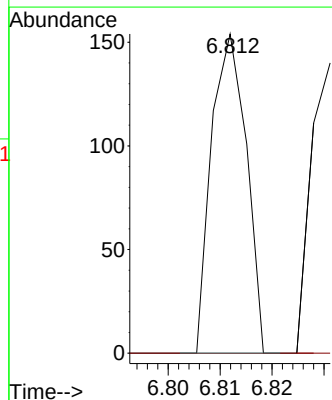
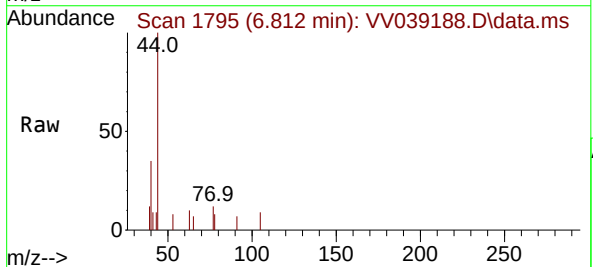
Instrument :
MSVOA_V
ClientSampleId :

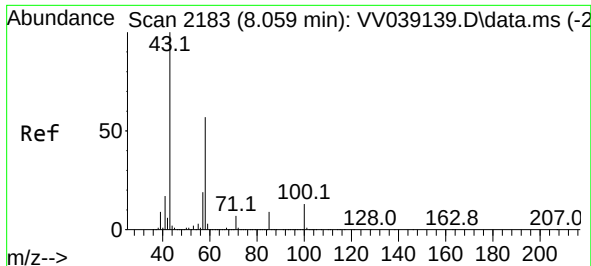
Tgt Ion: 98 Resp: 600984
Ion Ratio Lower Upper
98 100
100 64.3 52.2 78.2



#58
2-Chloroethyl Vinyl ether
Concen: 9.641 ug/l
RT: 6.812 min Scan# 1795
Delta R.T. 0.003 min
Lab File: VV039188.D
Acq: 25 Sep 2025 17:47

Tgt Ion: 63 Resp: 72
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#

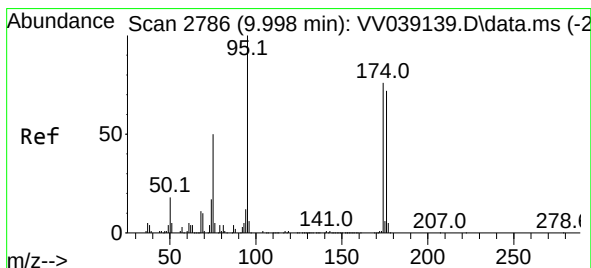
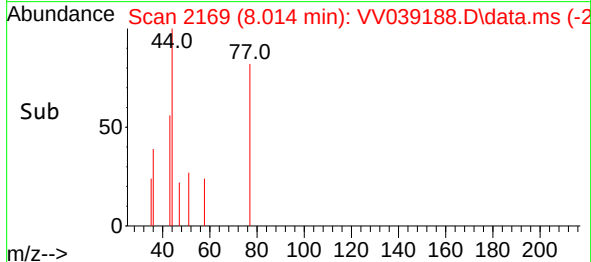
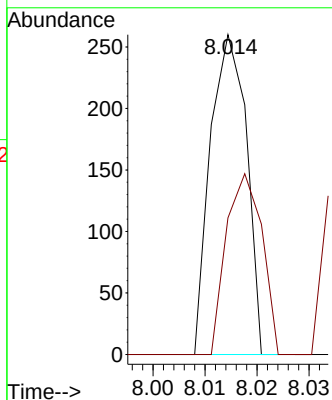
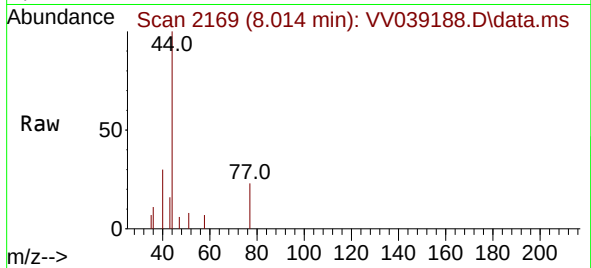




#59
2-Hexanone
Concen: 2.347 ug/l
RT: 8.014 min Scan# 2183
Delta R.T. -0.045 min
Lab File: VV039188.D
Acq: 25 Sep 2025 17:47

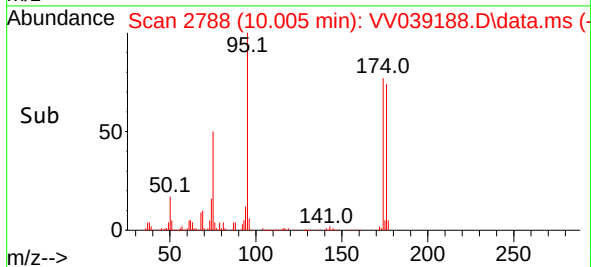
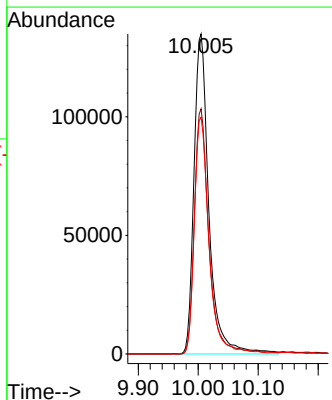
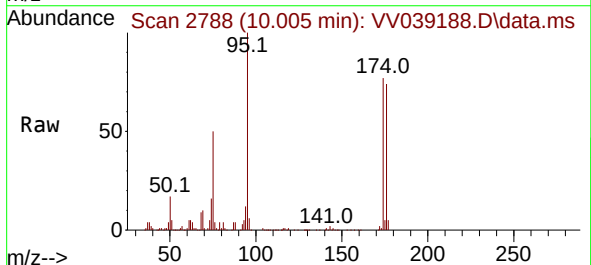
Instrument :
MSVOA_V
ClientSampleId :

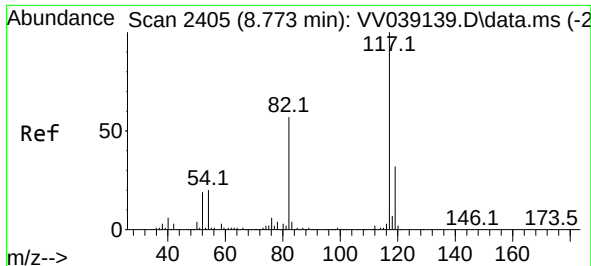
Tgt Ion: 43 Resp: 125
Ion Ratio Lower Upper
43 100
58 56.0 28.3 85.0



#62
4-Bromofluorobenzene
Concen: 43.585 ug/l
RT: 10.005 min Scan# 2788
Delta R.T. 0.006 min
Lab File: VV039188.D
Acq: 25 Sep 2025 17:47

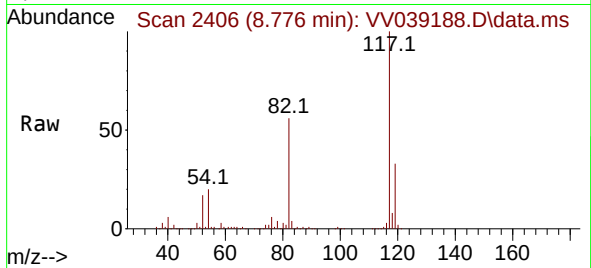
Tgt Ion: 95 Resp: 234432
Ion Ratio Lower Upper
95 100
174 74.0 0.0 150.4
176 72.7 0.0 144.2



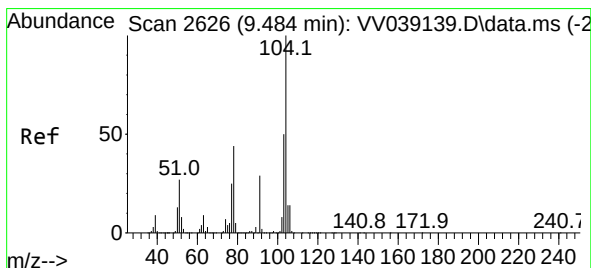
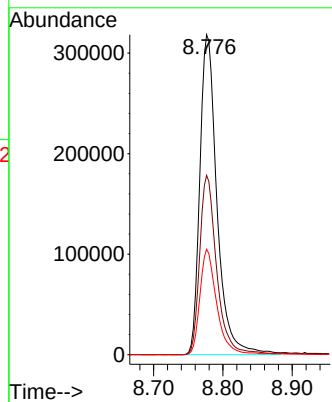
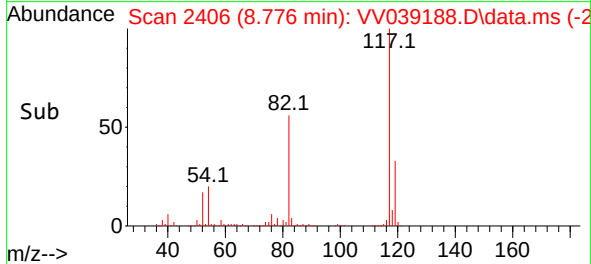


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039188.D
Acq: 25 Sep 2025 17:47

Instrument :
MSVOA_V
ClientSampleId :

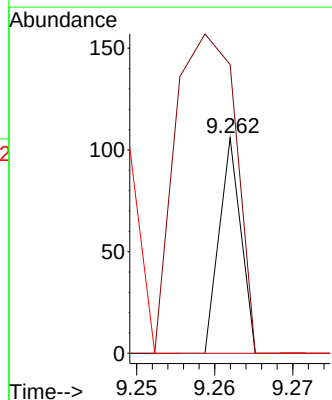
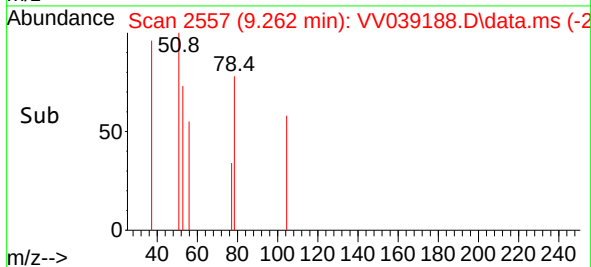
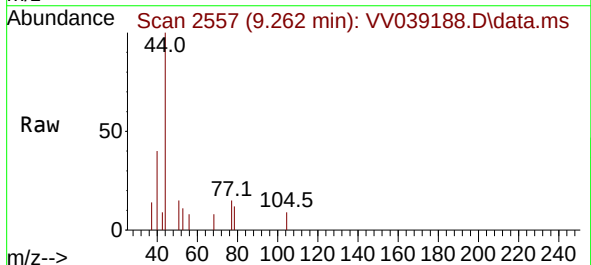


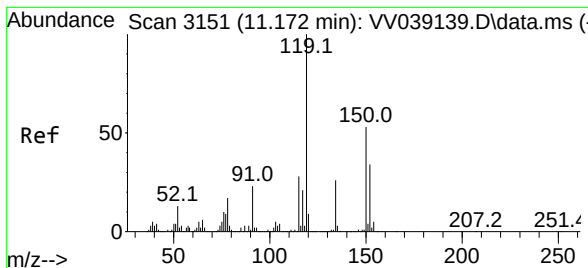
Tgt Ion:117 Resp: 549470
Ion Ratio Lower Upper
117 100
82 56.1 45.4 68.2
119 33.0 25.6 38.4



#70
Styrene
Concen: 1.563 ug/l
RT: 9.262 min Scan# 2557
Delta R.T. -0.222 min
Lab File: VV039188.D
Acq: 25 Sep 2025 17:47

Tgt Ion:104 Resp: 20
Ion Ratio Lower Upper
104 100
78 420.0 39.8 59.6#
103 100.0 43.4 65.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 31

Delta R.T. 0.003 min

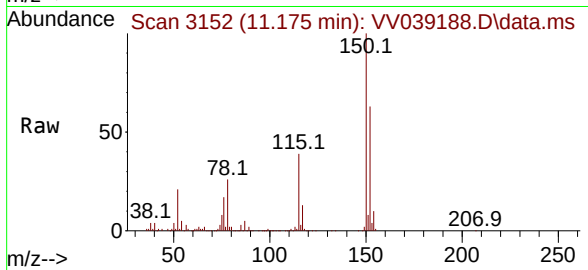
Lab File: VV039188.D

Acq: 25 Sep 2025 17:47

Instrument :

MSVOA_V

ClientSampleId :



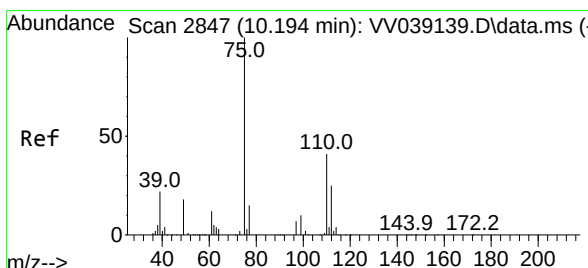
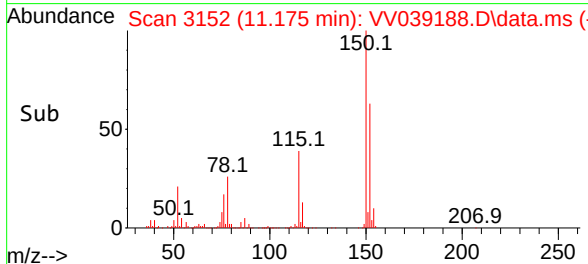
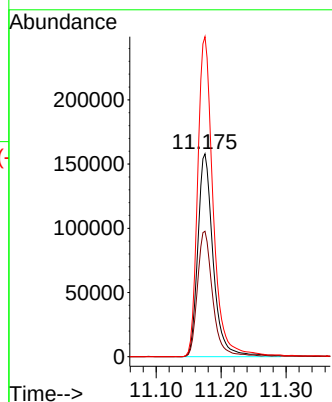
Tgt Ion:152 Resp: 261018

Ion Ratio Lower Upper

152 100

115 61.2 44.8 134.4

150 158.0 0.0 353.8



#76

1,2,3-Trichloropropane

Concen: 19.507 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.193 min

Lab File: VV039188.D

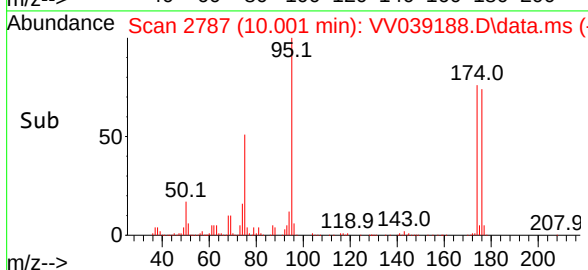
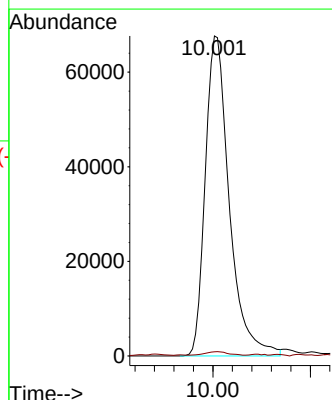
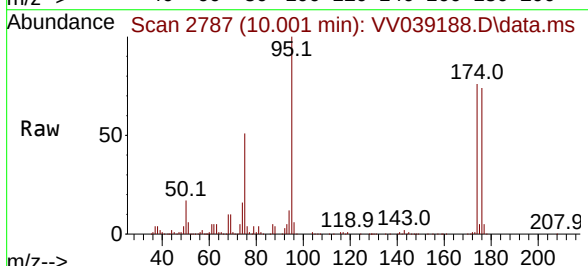
Acq: 25 Sep 2025 17:47

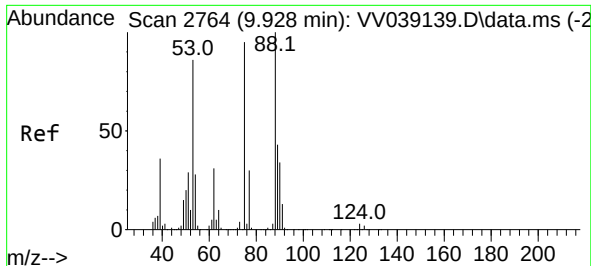
Tgt Ion: 75 Resp: 115929

Ion Ratio Lower Upper

75 100

77 1.1 11.3 33.8#

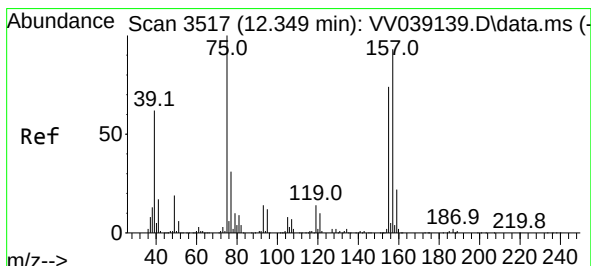
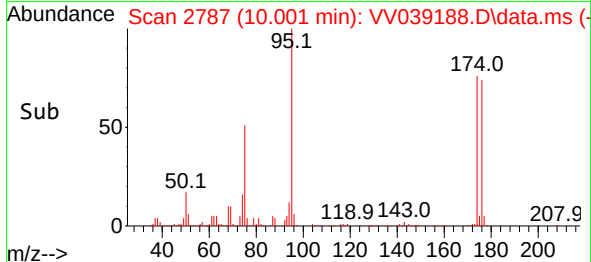
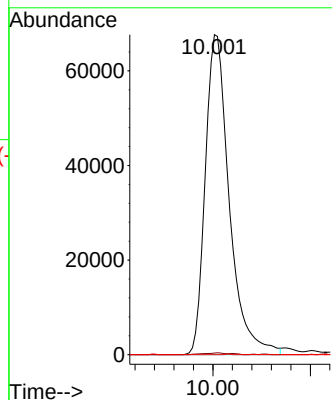
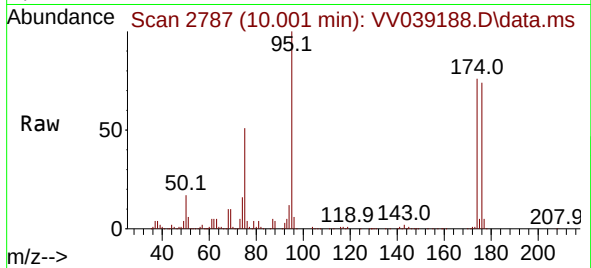




#81
trans-1,4-Dichloro-2-butene
Concen: 46.830 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039188.D
Acq: 25 Sep 2025 17:47

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 75 Resp: 115929
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: 12.358 min Scan# 3520
Delta R.T. 0.009 min
Lab File: VV039188.D
Acq: 25 Sep 2025 17:47

Tgt Ion: 75 Resp: 77
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#

