

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092425\
 Data File : VV039163.D
 Acq On : 24 Sep 2025 19:15
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VIBLK

Quant Time: Sep 25 08:22:59 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)

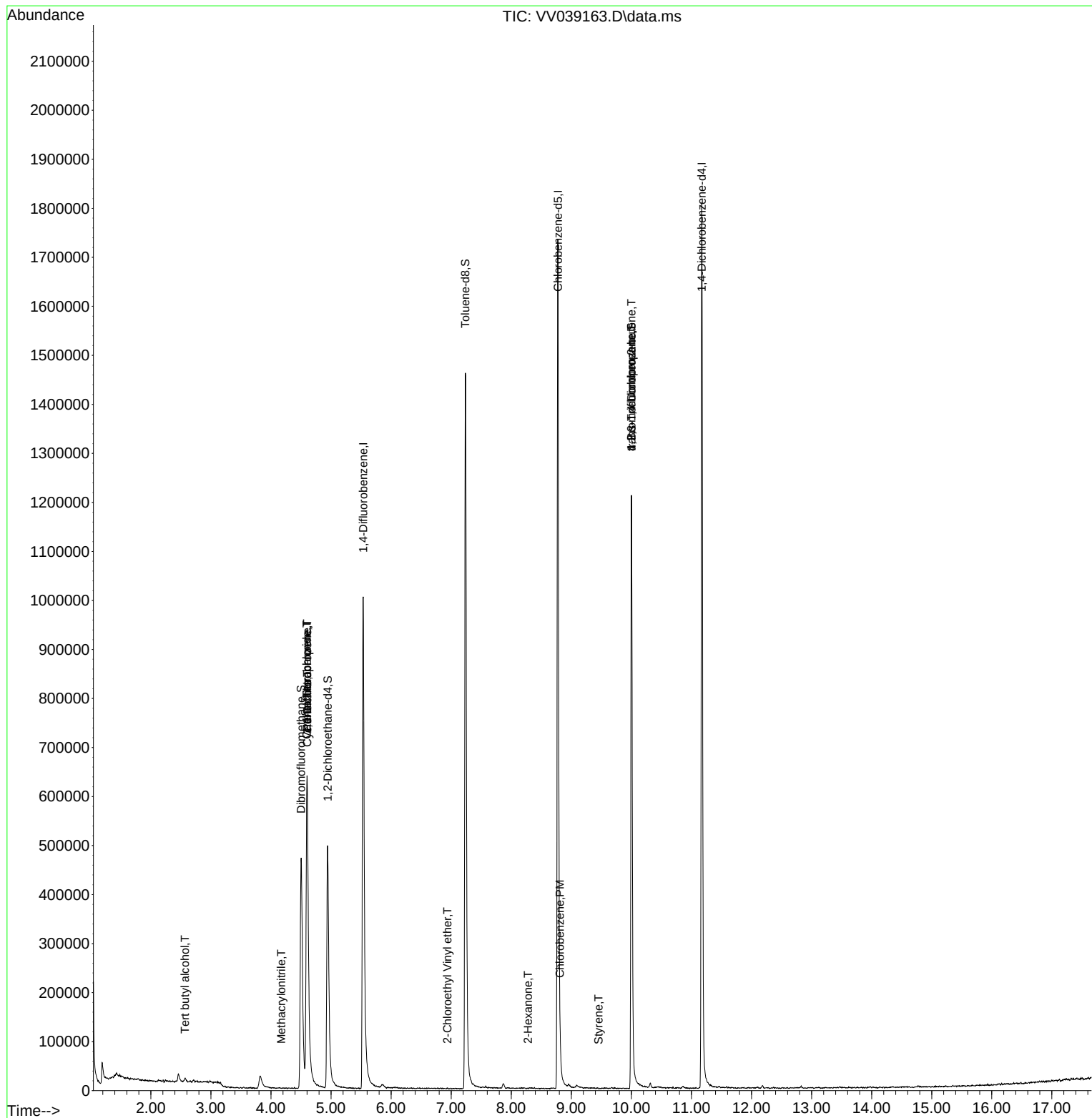
Internal Standards						
1) Pentafluorobenzene	4.600	168	536805	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	968588	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	977586	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	475135	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	444222	57.178	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 114.360%	
35) Dibromofluoromethane	4.503	113	391937	50.334	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 100.660%	
50) Toluene-d8	7.236	98	1073286	46.931	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 93.860%	
62) 4-Bromofluorobenzene	10.001	95	411373	43.694	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 87.380%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.600	64	1592	Below Cal	#	55
11) Tert butyl alcohol	2.568	59	2953	1.798	ug/l	98
16) Acetone	2.140	43	2171	Below Cal	#	61
20) Methylene Chloride	2.461	84	7426	Below Cal	#	88
31) Cyclohexane	4.606	56	12781	0.922	ug/l	# 1
36) 1,1-Dichloropropene	4.603	75	48243	4.098	ug/l	# 45
38) Carbon Tetrachloride	4.596	117	62954	4.375	ug/l	# 17
41) Methacrylonitrile	4.172	41	360	1.964	ug/l	# 37
58) 2-Chloroethyl Vinyl ether	6.937	63	163	9.646	ug/l	95
59) 2-Hexanone	8.278	43	120	2.337	ug/l	84
65) Chlorobenzene	8.812	112	34541	1.268	ug/l	93
70) Styrene	9.455	104	48	1.563	ug/l	# 1
76) 1,2,3-Trichloropropane	10.001	75	213924	19.775	ug/l	# 56
81) trans-1,4-Dichloro-2-b...	10.001	75	213924	47.473	ug/l	# 13
92) 1,2-Dibromo-3-Chloropr...	12.349	75	47	Below Cal	#	5

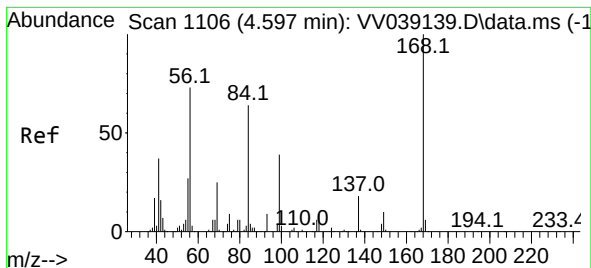
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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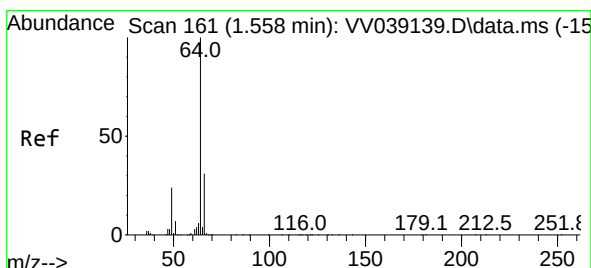
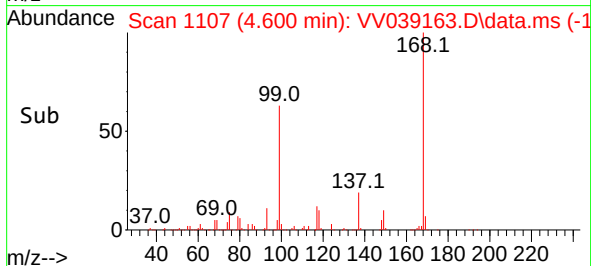
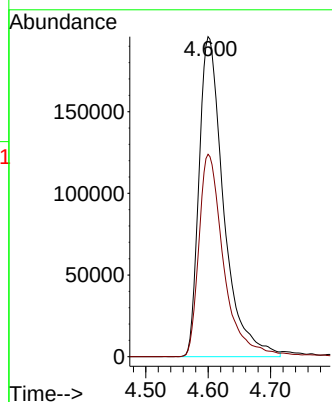
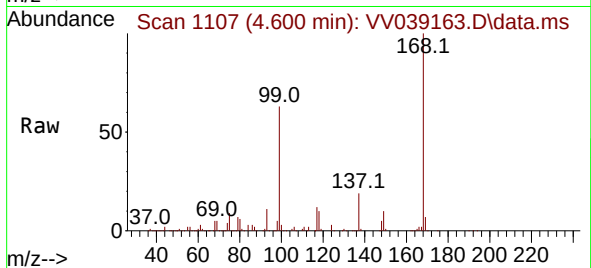




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039163.D
Acq: 24 Sep 2025 19:15

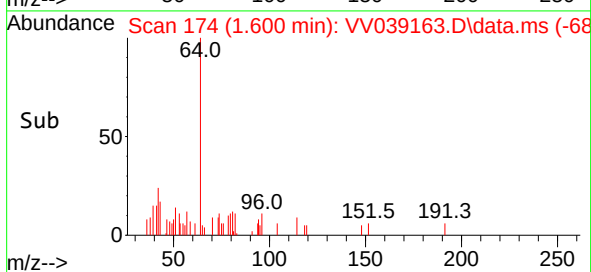
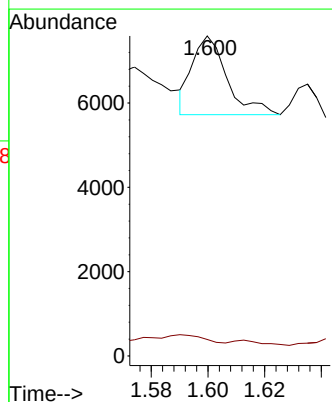
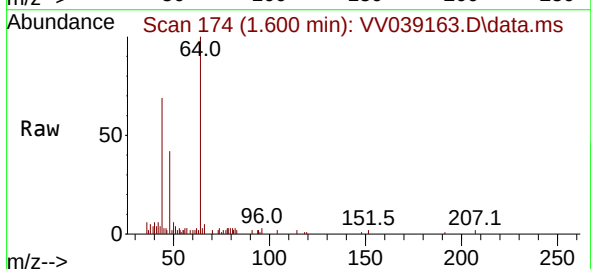
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

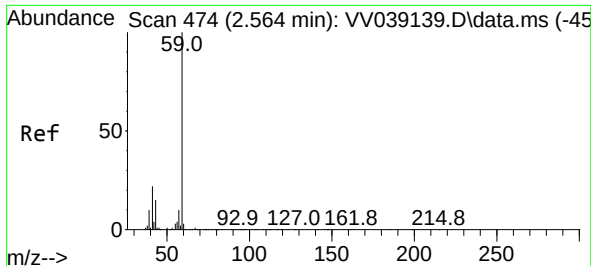
Tgt Ion:168 Resp: 536805
Ion Ratio Lower Upper
168 100
99 63.2 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.600 min Scan# 174
Delta R.T. 0.042 min
Lab File: VV039163.D
Acq: 24 Sep 2025 19:15

Tgt Ion: 64 Resp: 1592
Ion Ratio Lower Upper
64 100
66 6.3 24.6 36.8#

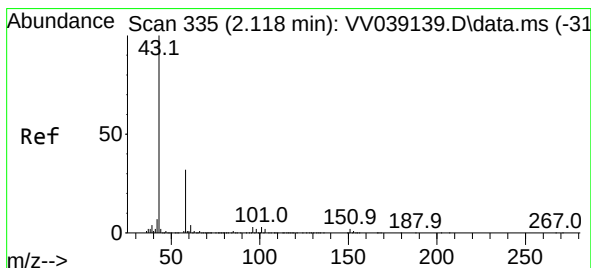
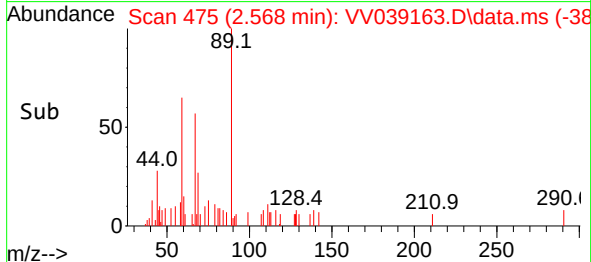
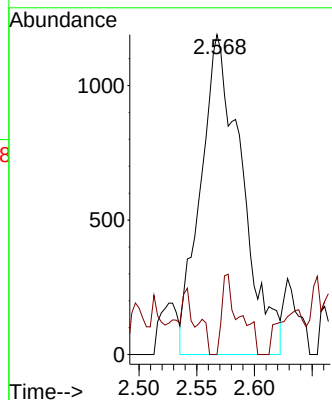
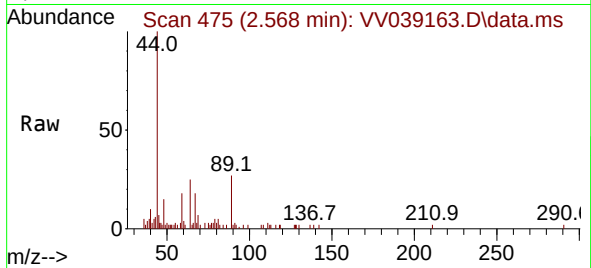




#11
Tert butyl alcohol
Concen: 1.798 ug/l
RT: 2.568 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV039163.D
Acq: 24 Sep 2025 19:15

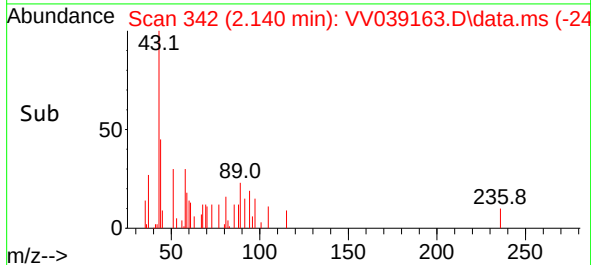
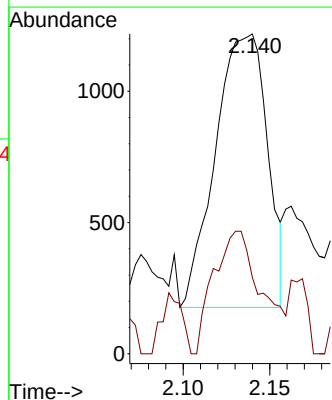
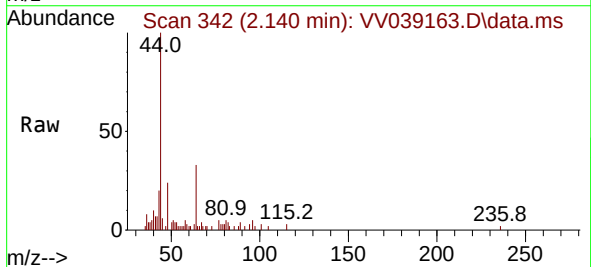
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

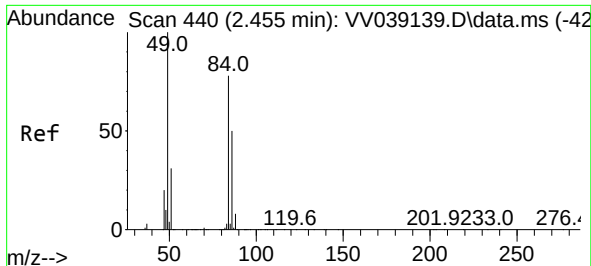
Tgt Ion: 59 Resp: 2953
Ion Ratio Lower Upper
59 100
57 10.6 7.8 11.8



#16
Acetone
Concen: Below Cal
RT: 2.140 min Scan# 342
Delta R.T. 0.022 min
Lab File: VV039163.D
Acq: 24 Sep 2025 19:15

Tgt Ion: 43 Resp: 2171
Ion Ratio Lower Upper
43 100
58 10.6 25.8 38.6#

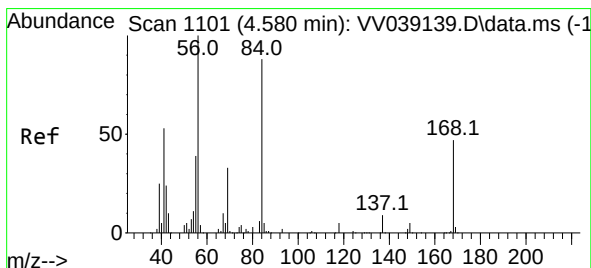
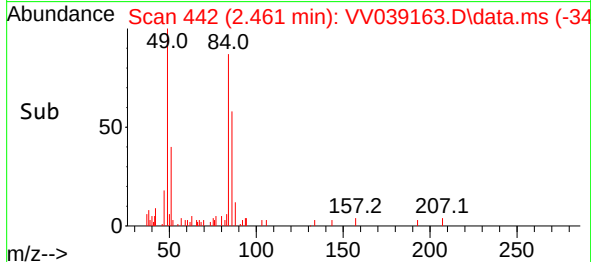
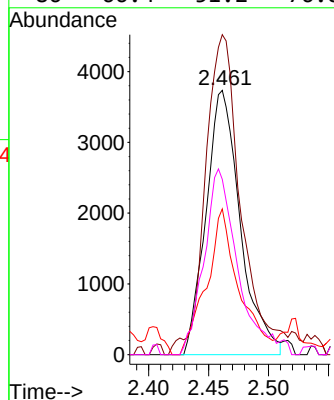
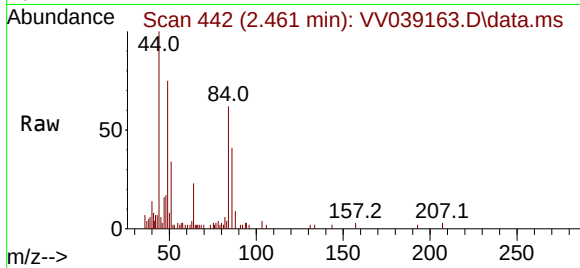




#20
Methylene Chloride
Concen: Below Cal
RT: 2.461 min Scan# 440
Delta R.T. 0.006 min
Lab File: VV039163.D
Acq: 24 Sep 2025 19:15

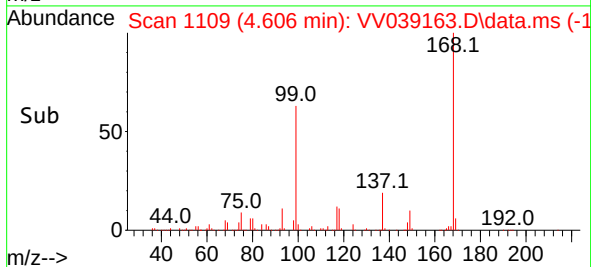
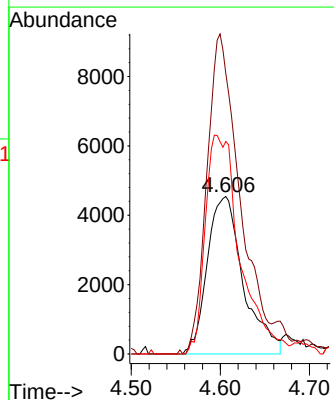
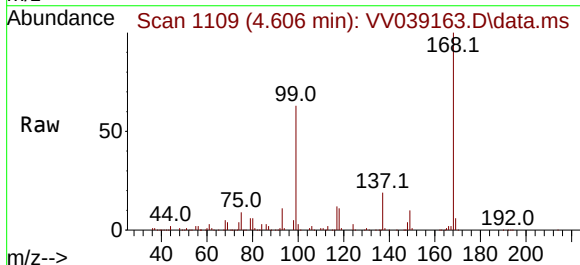
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

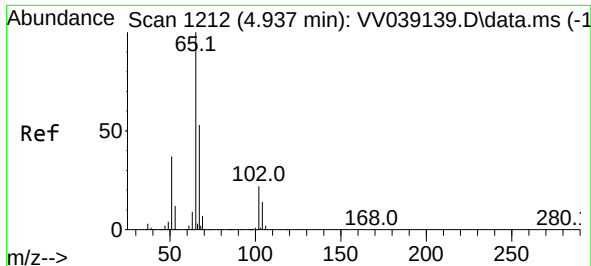
Tgt Ion:	84	Resp:	7426
Ion	Ratio	Lower	Upper
84	100		
49	114.7	102.8	154.2
51	55.1	31.9	47.9#
86	66.4	51.2	76.8



#31
Cyclohexane
Concen: 0.922 ug/l
RT: 4.606 min Scan# 1109
Delta R.T. 0.026 min
Lab File: VV039163.D
Acq: 24 Sep 2025 19:15

Tgt Ion:	56	Resp:	12781
Ion	Ratio	Lower	Upper
56	100		
69	175.6	26.2	39.2#
84	135.0	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 57.178 ug/l

RT: 4.944 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039163.D

Acq: 24 Sep 2025 19:15

Instrument :

MSVOA_V

ClientSampleId :

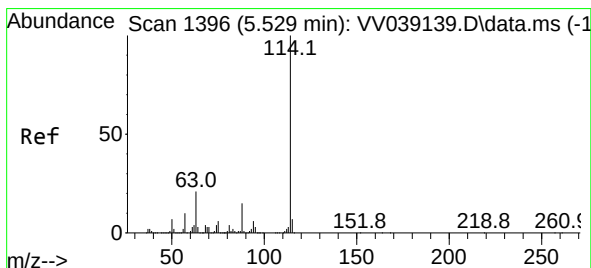
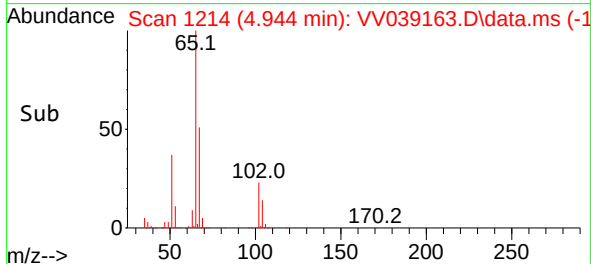
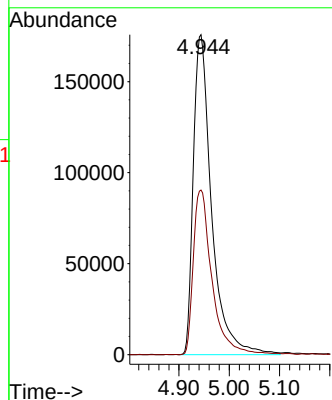
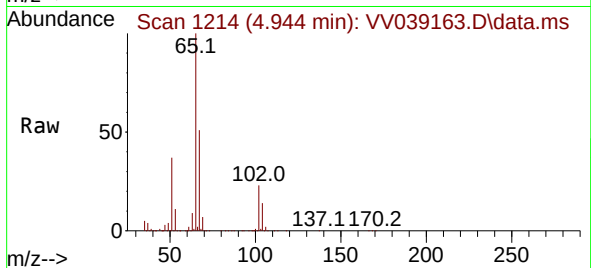
VIBLK

Tgt Ion: 65 Resp: 444222

Ion Ratio Lower Upper

65 100

67 52.4 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: VV039163.D

Acq: 24 Sep 2025 19:15

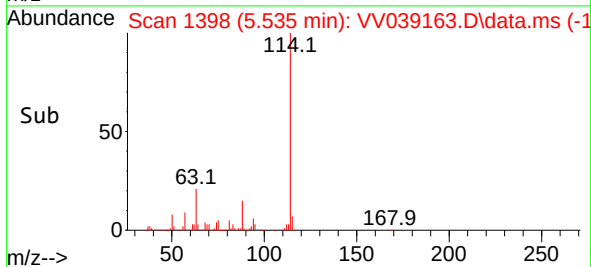
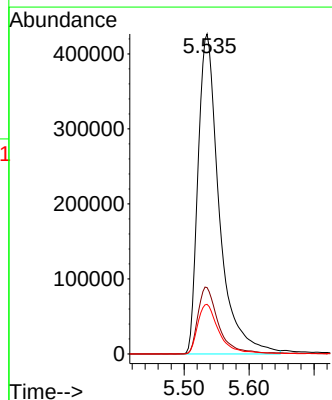
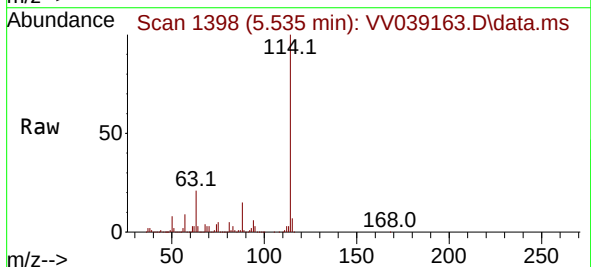
Tgt Ion: 114 Resp: 968588

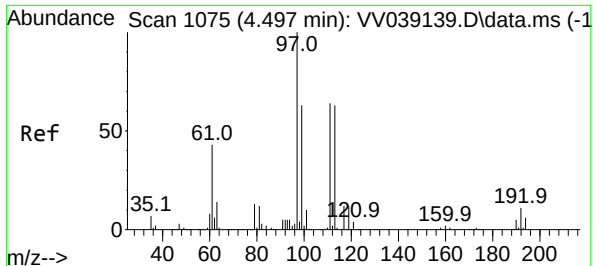
Ion Ratio Lower Upper

114 100

63 20.7 0.0 42.6

88 15.5 0.0 30.8

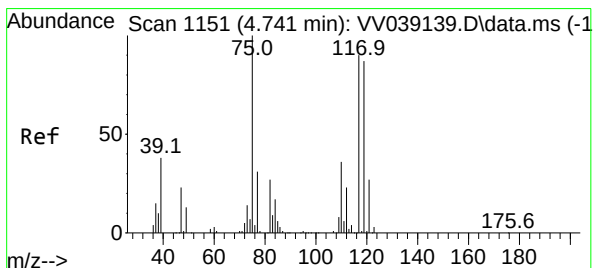
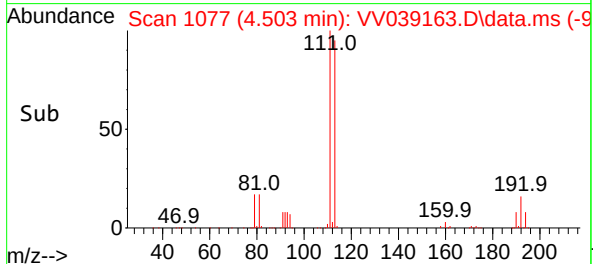
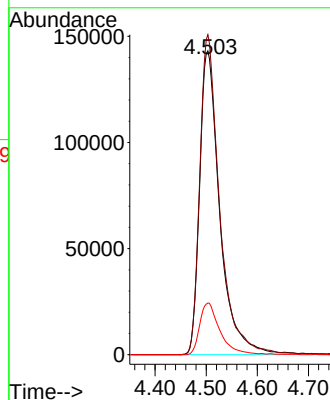
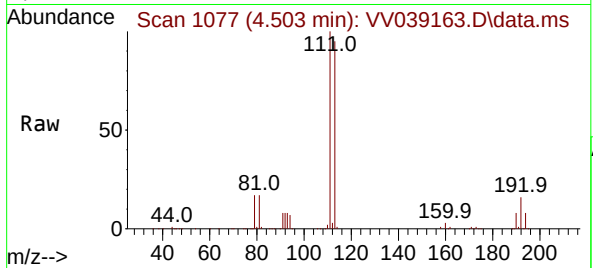




#35
Dibromofluoromethane
Concen: 50.334 ug/l
RT: 4.503 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VV039163.D
Acq: 24 Sep 2025 19:15

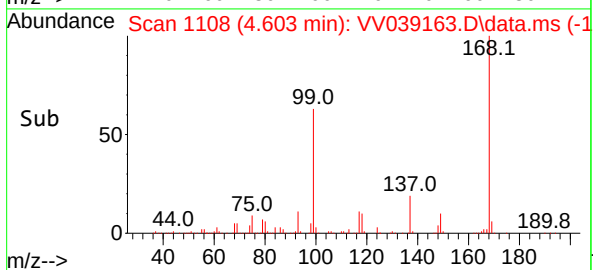
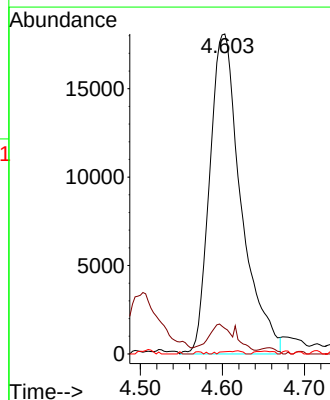
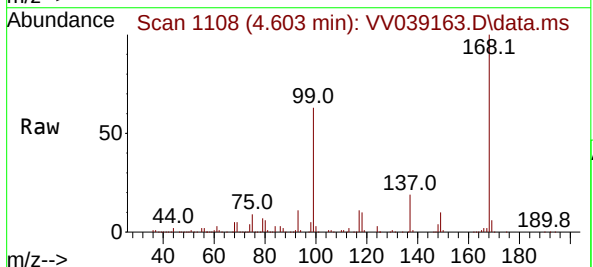
Instrument :
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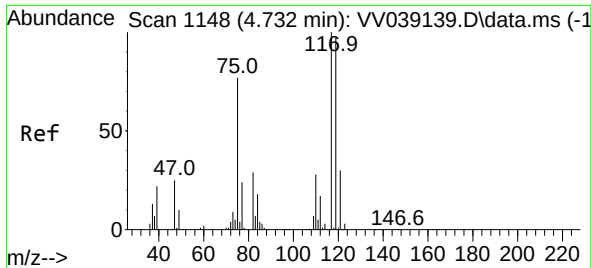
Tgt Ion:113 Resp: 391937
Ion Ratio Lower Upper
113 100
111 104.1 82.4 123.6
192 17.0 13.8 20.8



#36
1,1-Dichloropropene
Concen: 4.098 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. -0.138 min
Lab File: VV039163.D
Acq: 24 Sep 2025 19:15

Tgt Ion: 75 Resp: 48243
Ion Ratio Lower Upper
75 100
110 4.4 18.1 54.1#
77 0.0 24.8 37.2#

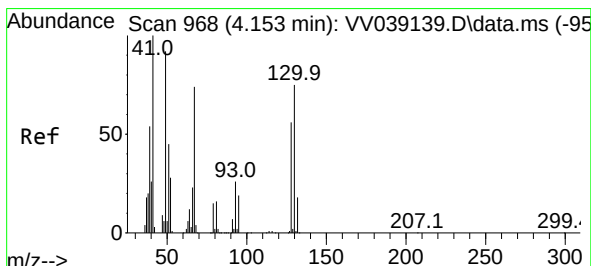
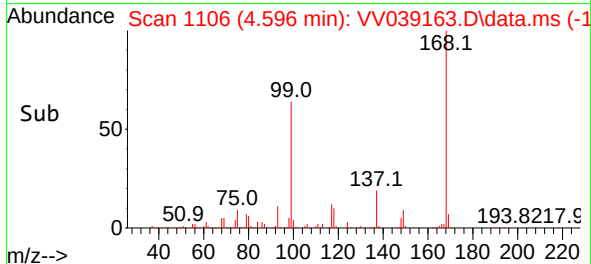
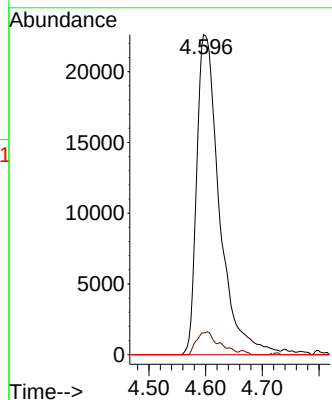
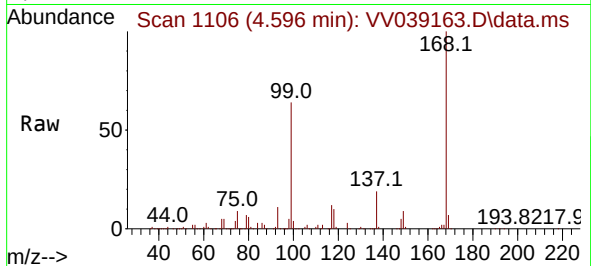




#38
Carbon Tetrachloride
Concen: 4.375 ug/l
RT: 4.596 min Scan# 1148
Delta R.T. -0.136 min
Lab File: VV039163.D
Acq: 24 Sep 2025 19:15

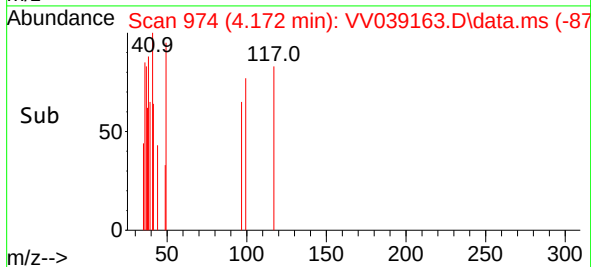
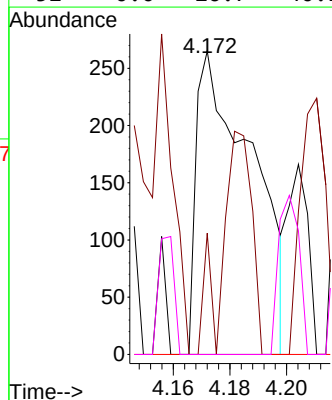
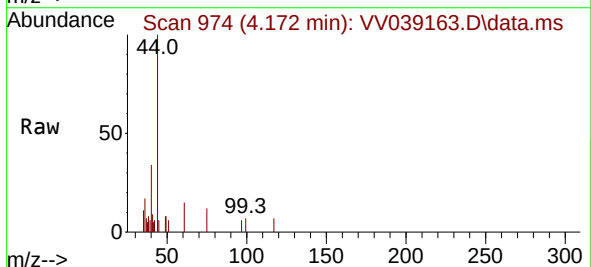
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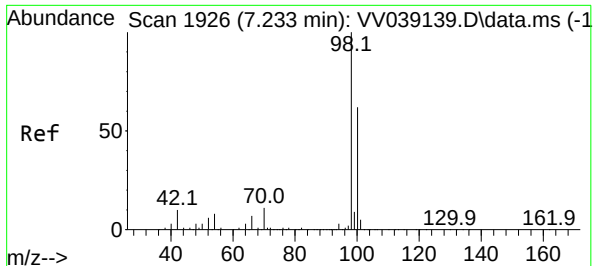
Tgt Ion:117 Resp: 62954
Ion Ratio Lower Upper
117 100
119 6.8 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.964 ug/l
RT: 4.172 min Scan# 974
Delta R.T. 0.019 min
Lab File: VV039163.D
Acq: 24 Sep 2025 19:15

Tgt Ion: 41 Resp: 360
Ion Ratio Lower Upper
41 100
39 39.4 42.2 63.2#
67 0.0 67.9 101.9#
52 0.0 26.7 40.1#





#50

Toluene-d8

Concen: 46.931 ug/l

RT: 7.236 min Scan# 1926

Delta R.T. 0.003 min

Lab File: VV039163.D

Acq: 24 Sep 2025 19:15

Instrument :

MSVOA_V

ClientSampleId :

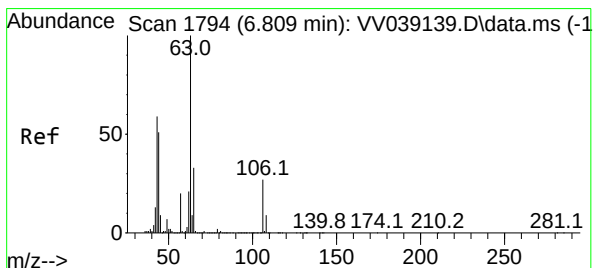
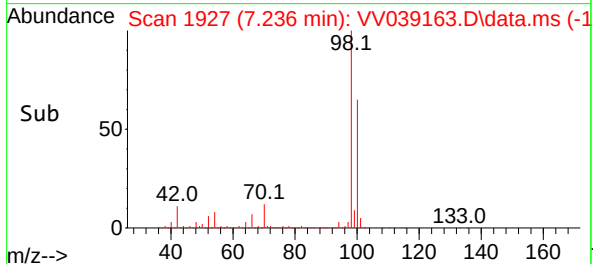
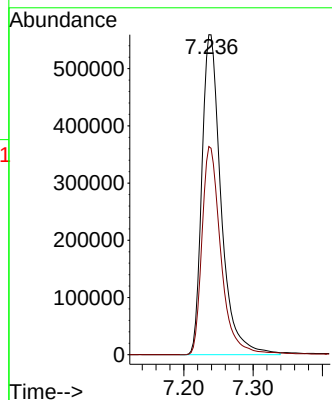
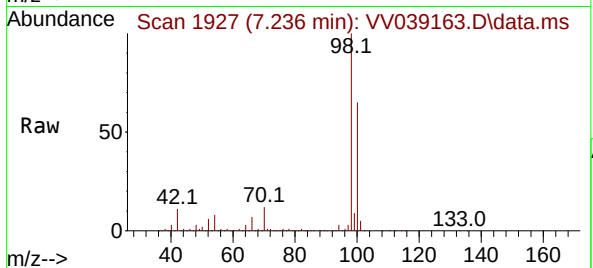
VIBLK

Tgt Ion: 98 Resp: 1073286

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.2



#58

2-Chloroethyl Vinyl ether

Concen: 9.646 ug/l

RT: 6.937 min Scan# 1834

Delta R.T. 0.128 min

Lab File: VV039163.D

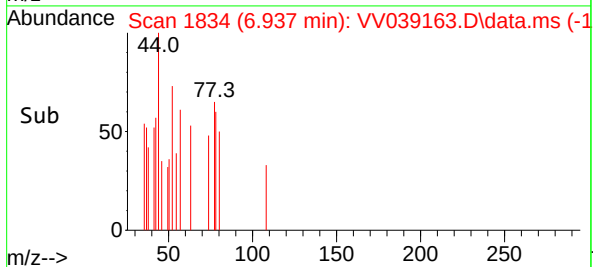
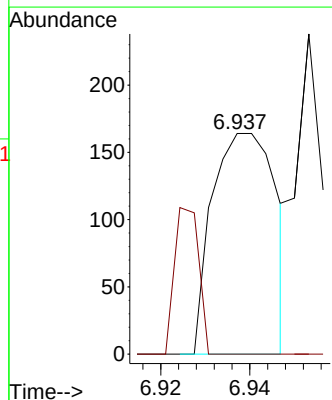
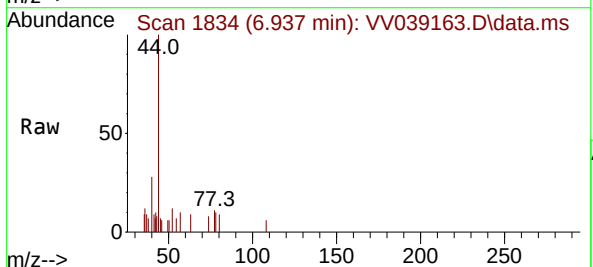
Acq: 24 Sep 2025 19:15

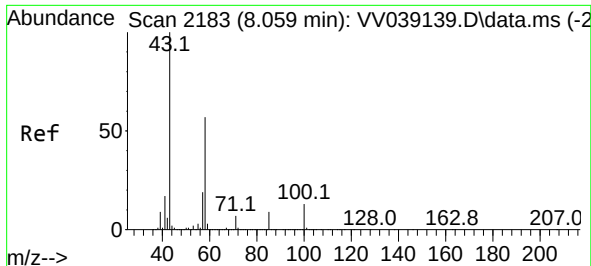
Tgt Ion: 63 Resp: 163

Ion Ratio Lower Upper

63 100

106 25.2 22.1 33.1





#59

2-Hexanone

Concen: 2.337 ug/l

RT: 8.278 min Scan# 2183

Delta R.T. 0.219 min

Lab File: VV039163.D

Acq: 24 Sep 2025 19:15

Instrument :

MSVOA_V

ClientSampleId :

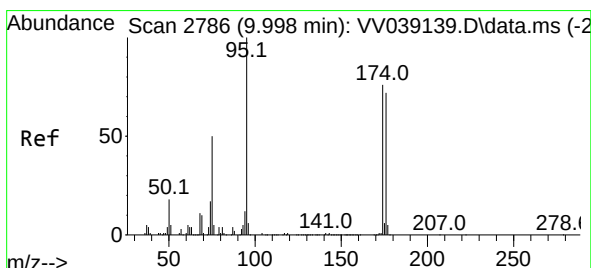
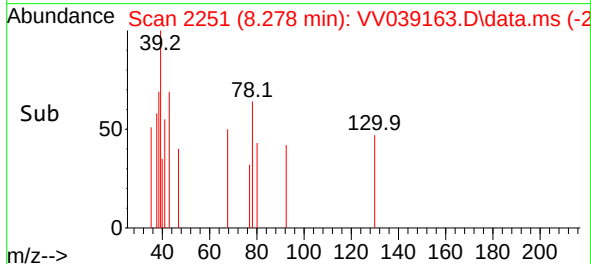
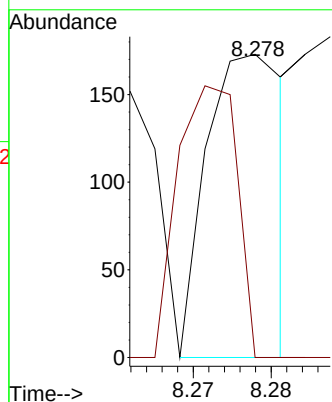
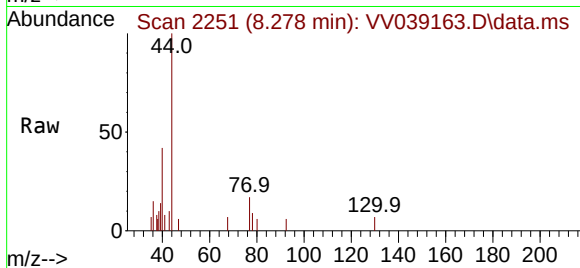
VIBLK

Tgt Ion: 43 Resp: 120

Ion Ratio Lower Upper

43 100

58 68.3 28.3 85.0



#62

4-Bromofluorobenzene

Concen: 43.694 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.003 min

Lab File: VV039163.D

Acq: 24 Sep 2025 19:15

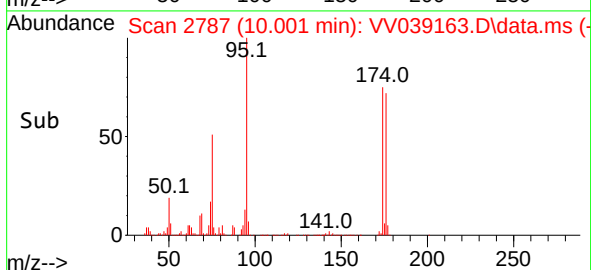
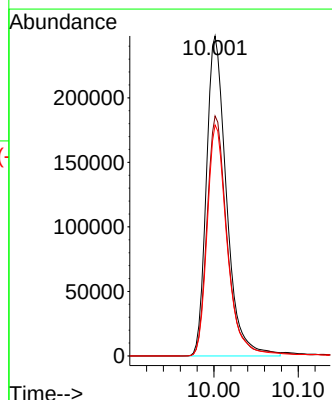
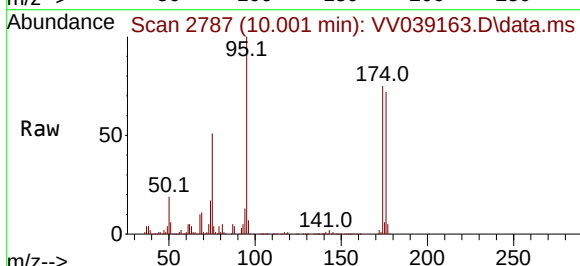
Tgt Ion: 95 Resp: 411373

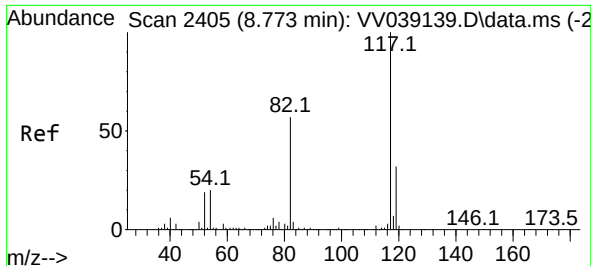
Ion Ratio Lower Upper

95 100

174 76.3 0.0 150.4

176 72.6 0.0 144.2

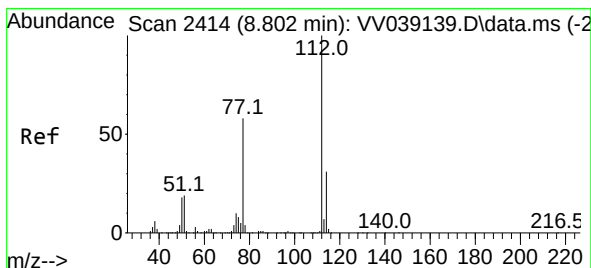
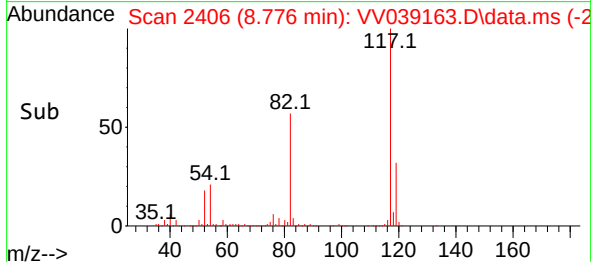
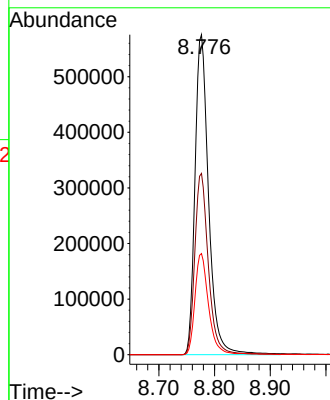
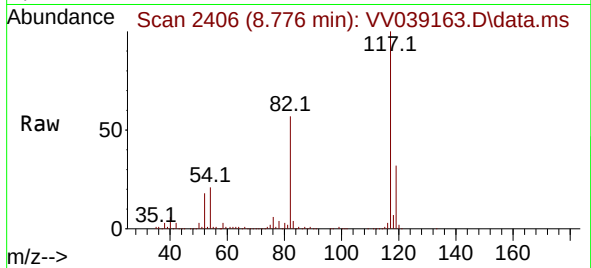




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039163.D
Acq: 24 Sep 2025 19:15

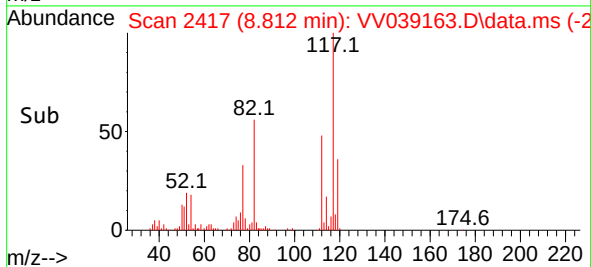
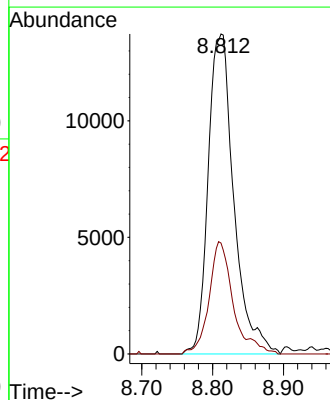
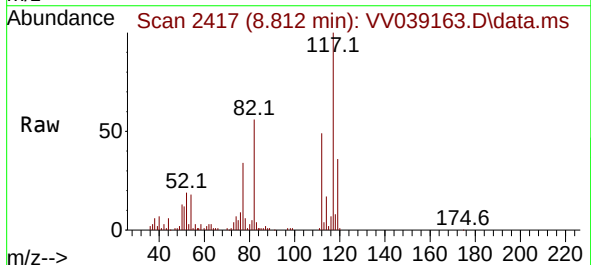
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

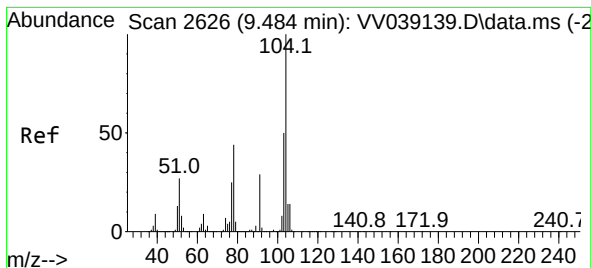
Tgt Ion:117 Resp: 977586
Ion Ratio Lower Upper
117 100
82 56.6 45.4 68.2
119 31.6 25.6 38.4



#65
Chlorobenzene
Concen: 1.268 ug/l
RT: 8.812 min Scan# 2417
Delta R.T. 0.010 min
Lab File: VV039163.D
Acq: 24 Sep 2025 19:15

Tgt Ion:112 Resp: 34541
Ion Ratio Lower Upper
112 100
114 34.7 24.6 37.0





#70

Styrene

Concen: 1.563 ug/l

RT: 9.455 min Scan# 2

Delta R.T. -0.029 min

Lab File: VV039163.D

Acq: 24 Sep 2025 19:15

Instrument :

MSVOA_V

ClientSampleId :

VIBLK

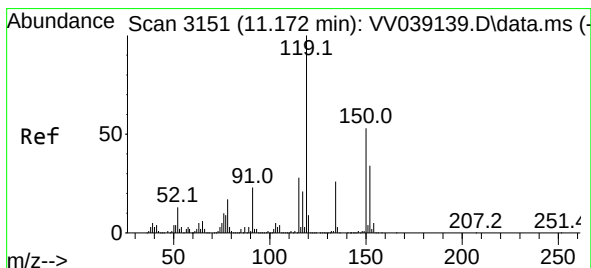
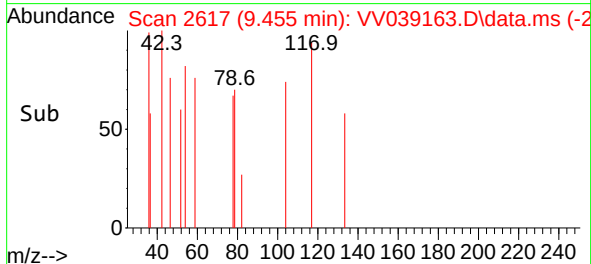
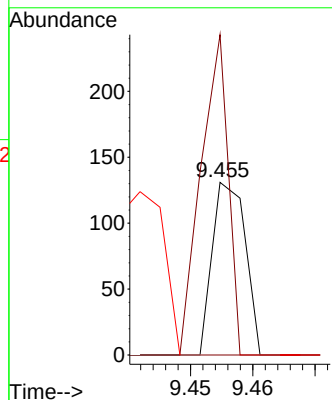
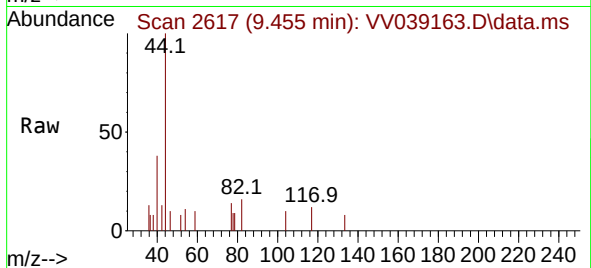
Tgt Ion:104 Resp: 48

Ion Ratio Lower Upper

104 100

78 154.2 39.8 59.6#

103 139.6 43.4 65.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 3151

Delta R.T. -0.000 min

Lab File: VV039163.D

Acq: 24 Sep 2025 19:15

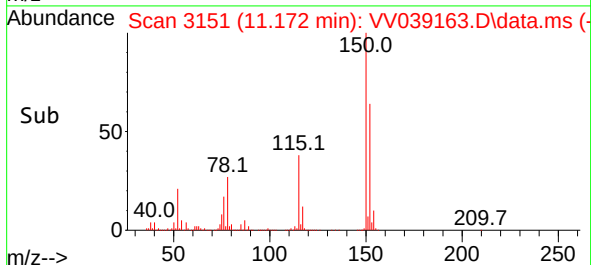
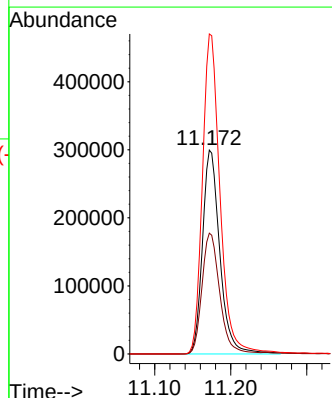
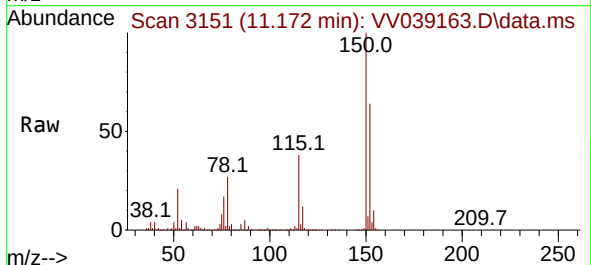
Tgt Ion:152 Resp: 475135

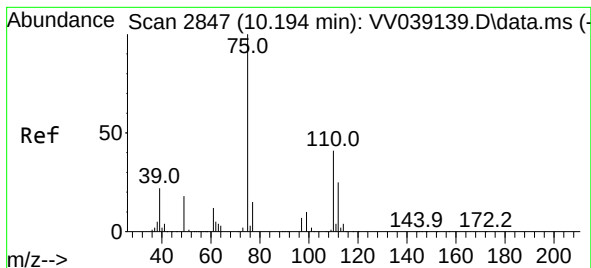
Ion Ratio Lower Upper

152 100

115 60.5 44.8 134.4

150 159.7 0.0 353.8





#76

1,2,3-Trichloropropane

Concen: 19.775 ug/l

RT: 10.001 min Scan# 21

Delta R.T. -0.193 min

Lab File: VV039163.D

Acq: 24 Sep 2025 19:15

Instrument :

MSVOA_V

ClientSampleId :

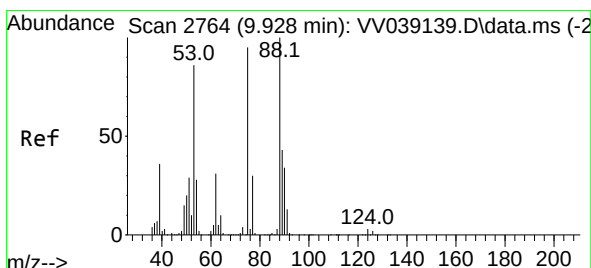
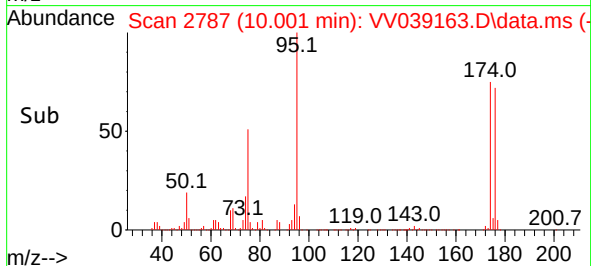
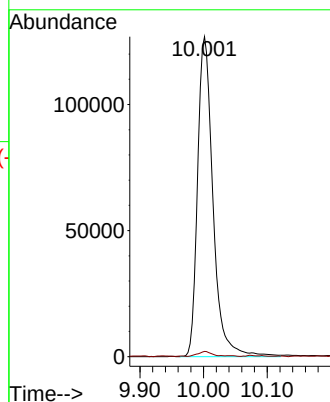
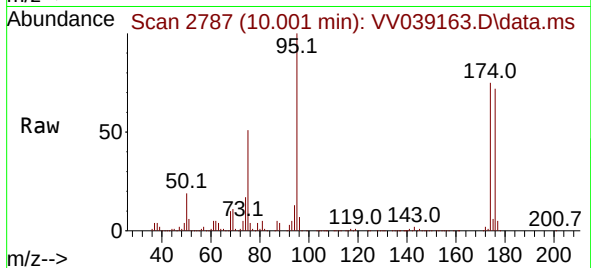
VIBLK

Tgt Ion: 75 Resp: 213924

Ion Ratio Lower Upper

75 100

77 1.4 11.3 33.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 47.473 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.074 min

Lab File: VV039163.D

Acq: 24 Sep 2025 19:15

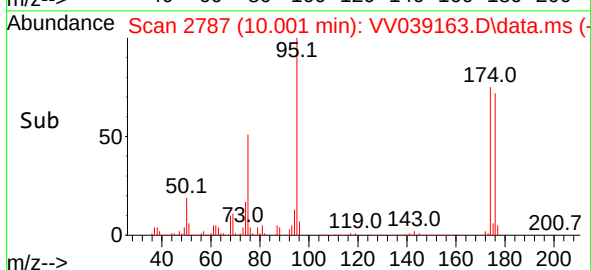
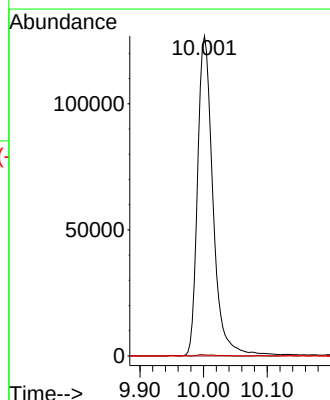
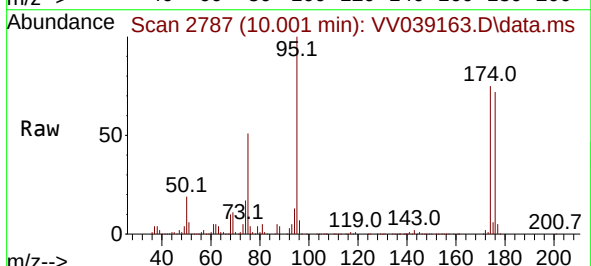
Tgt Ion: 75 Resp: 213924

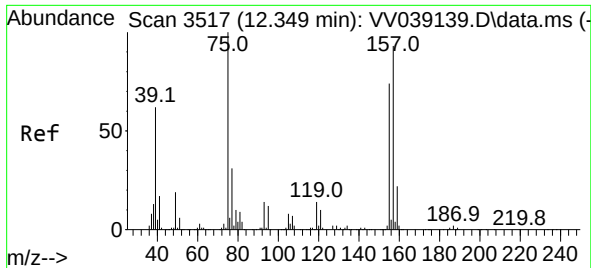
Ion Ratio Lower Upper

75 100

53 0.3 72.5 108.7#

89 0.0 37.2 55.8#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 12.349 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VV039163.D
 Acq: 24 Sep 2025 19:15

Instrument :
 MSVOA_V
 ClientSampleId :
 VIBLK

Tgt Ion: 75 Resp: 47
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.6 115.8#
 157 0.0 49.5 148.3#

