

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV110425\
 Data File : VV039316.D
 Acq On : 04 Nov 2025 15:54
 Operator : SY/MD
 Sample : Q3534-09
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 05 00:38:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V100725W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:01:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.600	168	711203	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1312588	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	1267623	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	578801	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.937	65	620023	61.353	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	122.700%#
35) Dibromofluoromethane	4.500	113	549147	53.097	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	106.200%
50) Toluene-d8	7.236	98	1720807	48.909	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	97.820%
62) 4-Bromofluorobenzene	10.001	95	596656	47.617	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	95.240%

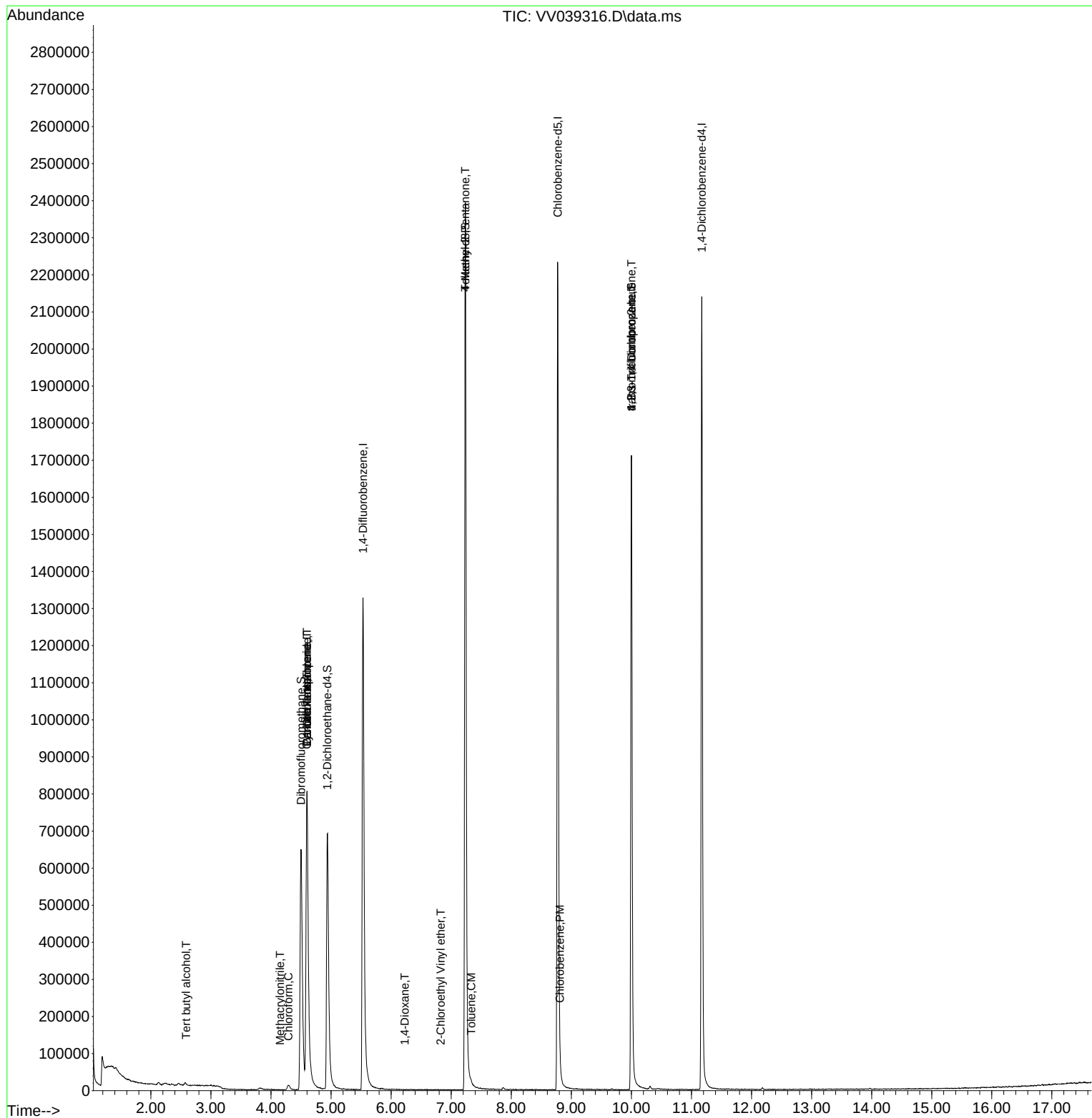
Target Compounds					Qvalue
6) Chloroethane	1.619	64	894	Below Cal	# 74
11) Tert butyl alcohol	2.587	59	1422	0.726 ug/l	# 88
13) Acrolein	2.018	56	169	Below Cal	94
16) Acetone	2.127	43	7631	Below Cal	93
20) Methylene Chloride	2.452	84	1261	Below Cal	# 84
30) Chloroform	4.291	83	14184	0.761 ug/l	96
31) Cyclohexane	4.596	56	14949	1.122 ug/l	# 1
36) 1,1-Dichloropropene	4.600	75	54547	4.199 ug/l	# 49
38) Carbon Tetrachloride	4.600	117	74278	4.693 ug/l	# 17
41) Methacrylonitrile	4.153	41	20	1.694 ug/l	# 1
49) 1,4-Dioxane	6.227	88	52	0.339 ug/l	# 12
51) 4-Methyl-2-Pentanone	7.236	43	6910	0.500 ug/l	# 1
52) Toluene	7.333	92	5904	0.235 ug/l	82
58) 2-Chloroethyl Vinyl ether	6.825	63	66	8.476 ug/l	# 45
65) Chlorobenzene	8.812	112	17643	0.588 ug/l	95
76) 1,2,3-Trichloropropane	10.001	75	292362	25.308 ug/l	# 53
81) trans-1,4-Dichloro-2-b...	10.001	75	292362	63.915 ug/l	# 14

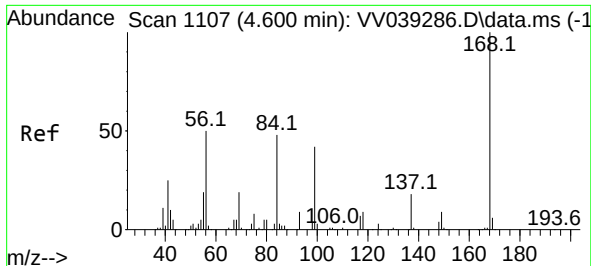
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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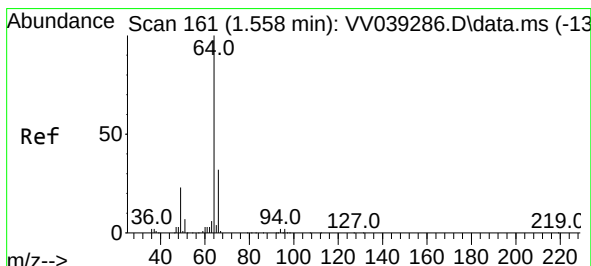
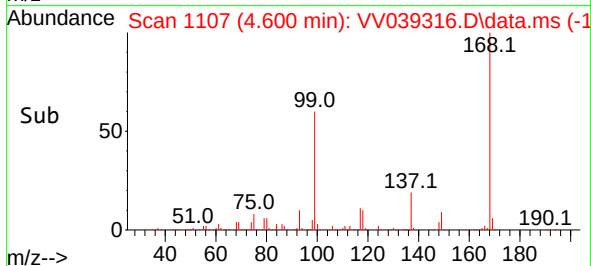
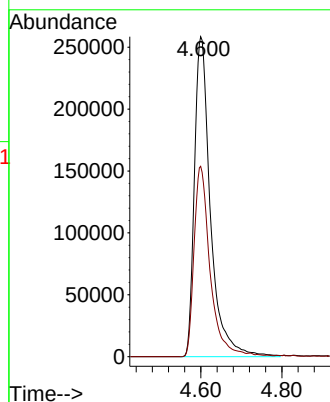
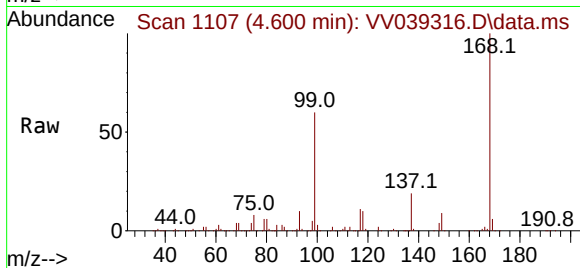




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.000 min
Lab File: VV039316.D
Acq: 04 Nov 2025 15:54

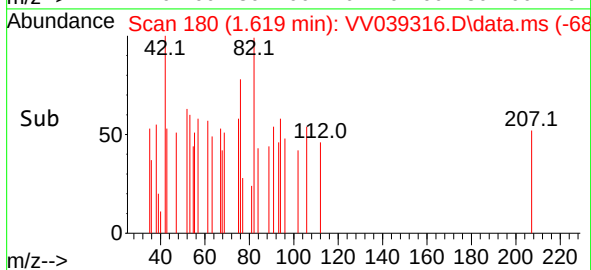
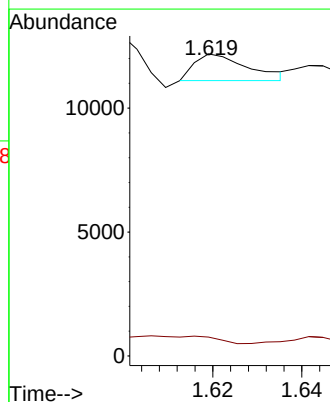
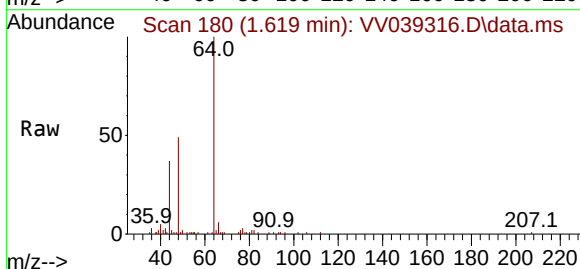
Instrument :
MSVOA_V
ClientSampleId :

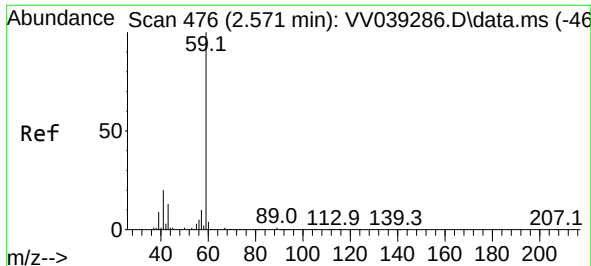
Tgt Ion:168 Resp: 711203
Ion Ratio Lower Upper
168 100
99 59.5 46.6 70.0



#6
Chloroethane
Concen: Below Cal
RT: 1.619 min Scan# 180
Delta R.T. 0.061 min
Lab File: VV039316.D
Acq: 04 Nov 2025 15:54

Tgt Ion: 64 Resp: 894
Ion Ratio Lower Upper
64 100
66 17.8 25.7 38.5#

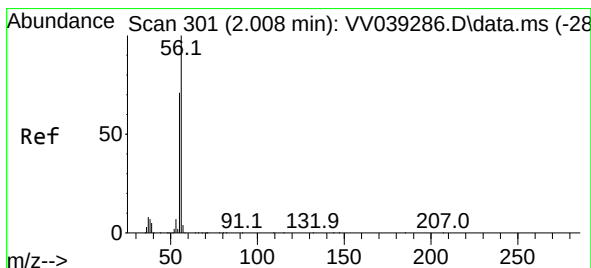
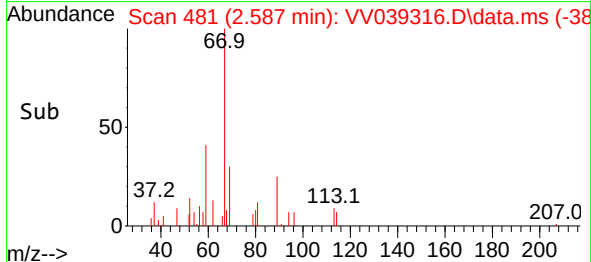
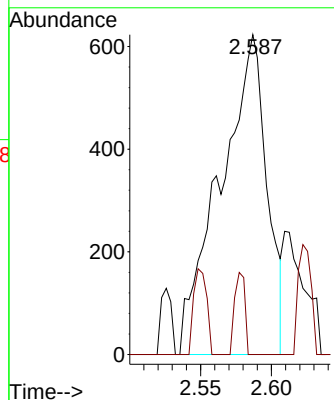
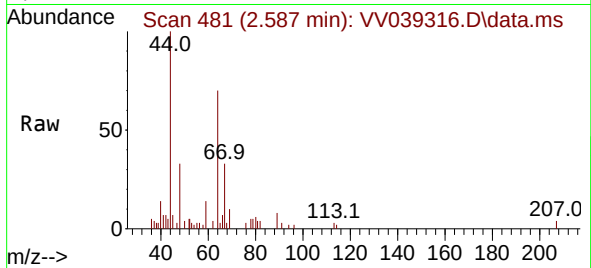




#11
Tert butyl alcohol
Concen: 0.726 ug/l
RT: 2.587 min Scan# 41
Delta R.T. 0.016 min
Lab File: VV039316.D
Acq: 04 Nov 2025 15:54

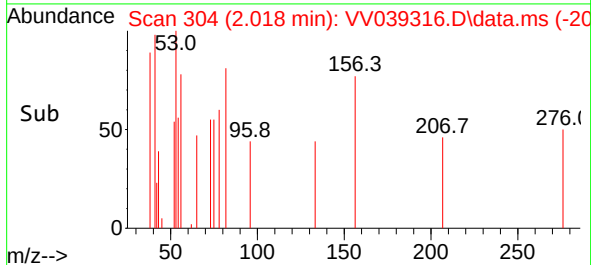
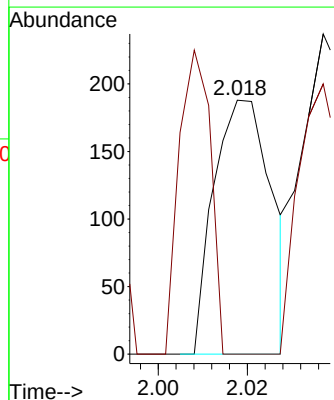
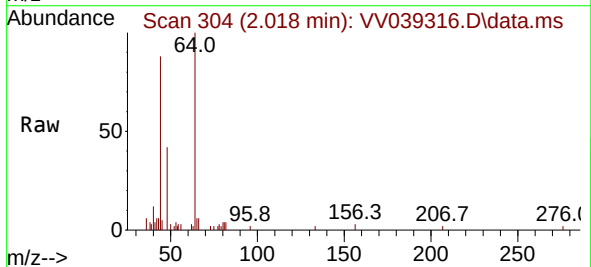
Instrument :
MSVOA_V
ClientSampleId :

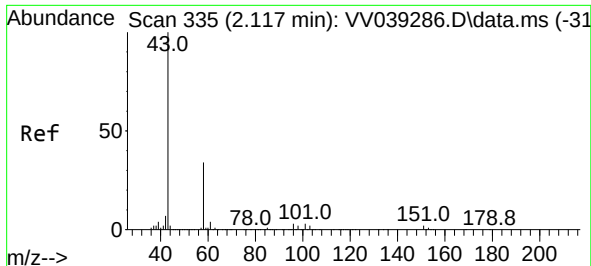
Tgt Ion: 59 Resp: 1422
Ion Ratio Lower Upper
59 100
57 5.7 8.1 12.1#



#13
Acrolein
Concen: Below Cal
RT: 2.018 min Scan# 304
Delta R.T. 0.010 min
Lab File: VV039316.D
Acq: 04 Nov 2025 15:54

Tgt Ion: 56 Resp: 169
Ion Ratio Lower Upper
56 100
55 65.7 56.2 84.4

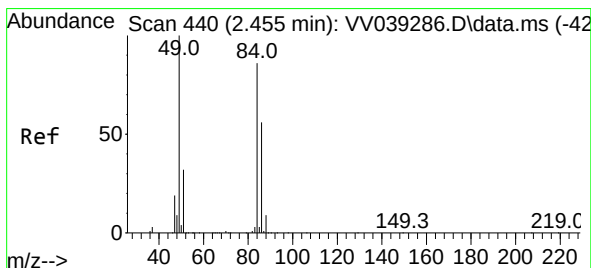
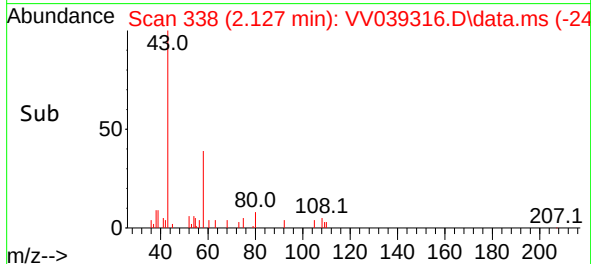
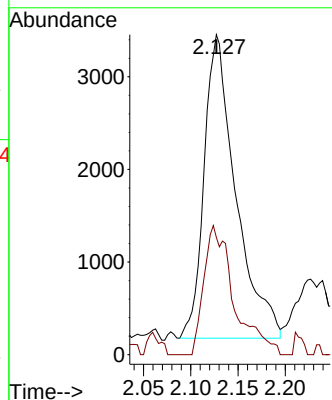
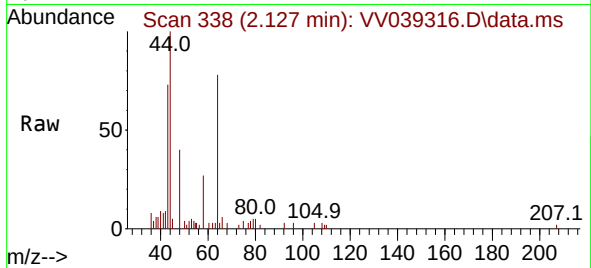




#16
Acetone
Concen: Below Cal
RT: 2.127 min Scan# 31
Delta R.T. 0.010 min
Lab File: VV039316.D
Acq: 04 Nov 2025 15:54

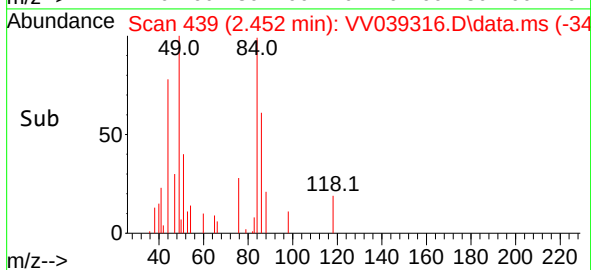
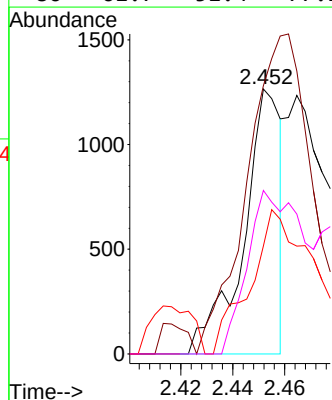
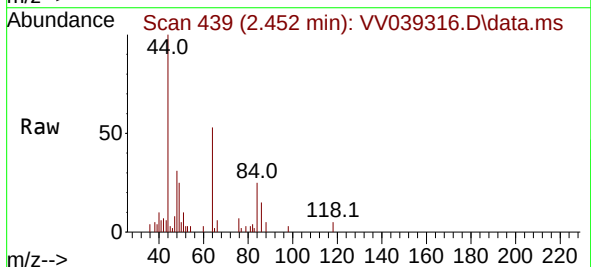
Instrument :
MSVOA_V
ClientSampleId :

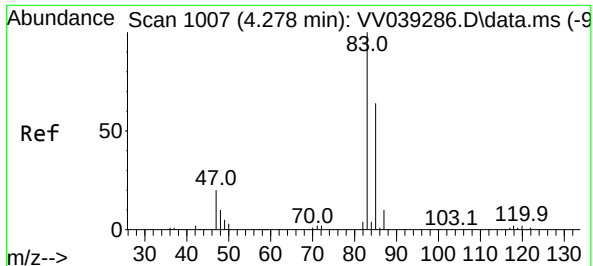
Tgt Ion: 43 Resp: 7631
Ion Ratio Lower Upper
43 100
58 38.6 27.5 41.3



#20
Methylene Chloride
Concen: Below Cal
RT: 2.452 min Scan# 439
Delta R.T. -0.003 min
Lab File: VV039316.D
Acq: 04 Nov 2025 15:54

Tgt Ion: 84 Resp: 1261
Ion Ratio Lower Upper
84 100
49 91.8 92.6 139.0#
51 25.3 29.6 44.4#
86 61.7 51.4 77.2





#30

Chloroform

Concen: 0.761 ug/l

RT: 4.291 min Scan# 1106

Delta R.T. 0.013 min

Lab File: VV039316.D

Acq: 04 Nov 2025 15:54

Instrument :

MSVOA_V

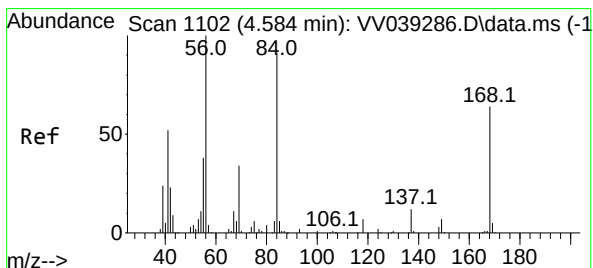
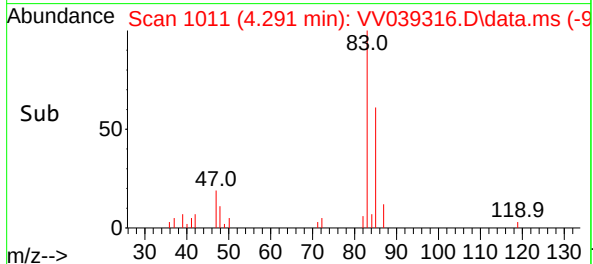
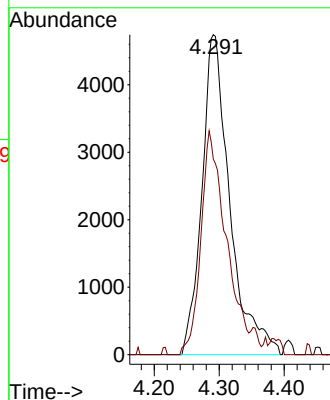
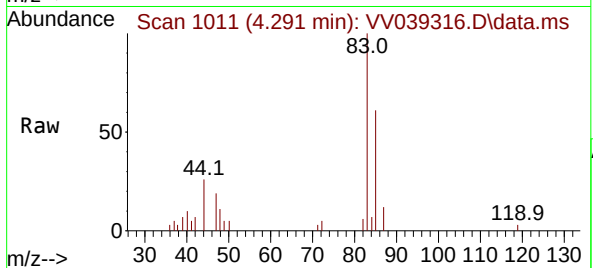
ClientSampleId :

Tgt Ion: 83 Resp: 14184

Ion Ratio Lower Upper

83 100

85 61.1 51.1 76.7



#31

Cyclohexane

Concen: 1.122 ug/l

RT: 4.596 min Scan# 1106

Delta R.T. 0.013 min

Lab File: VV039316.D

Acq: 04 Nov 2025 15:54

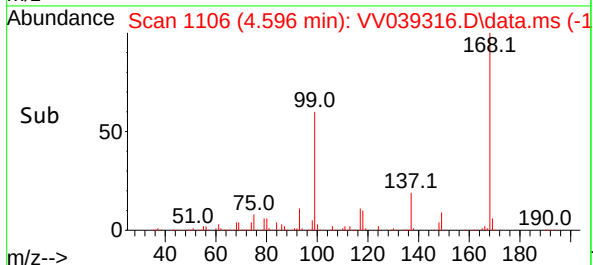
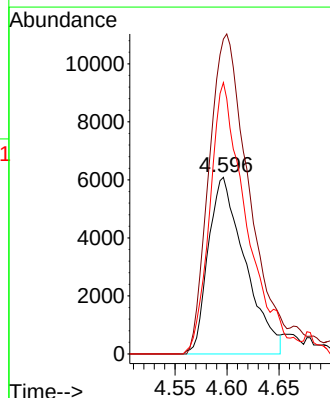
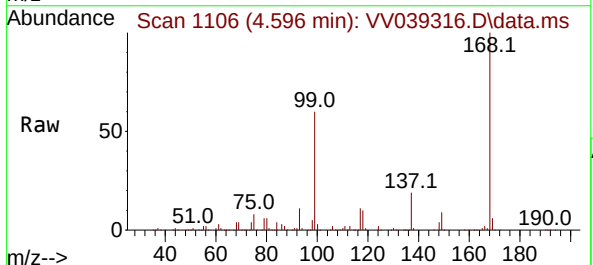
Tgt Ion: 56 Resp: 14949

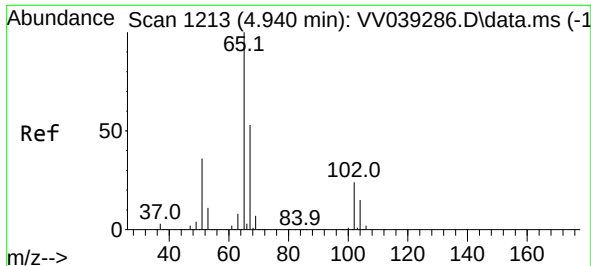
Ion Ratio Lower Upper

56 100

69 178.2 27.4 41.0#

84 153.6 72.8 109.2#





#33

1,2-Dichloroethane-d4

Concen: 61.353 ug/l

RT: 4.937 min Scan# 1

Delta R.T. -0.003 min

Lab File: VV039316.D

Acq: 04 Nov 2025 15:54

Instrument :

MSVOA_V

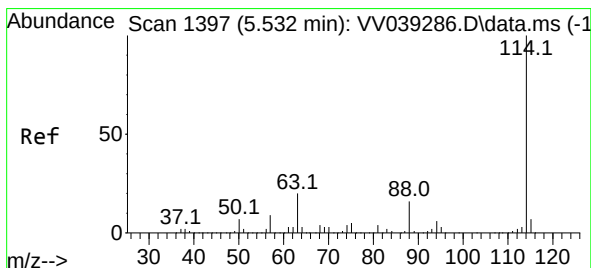
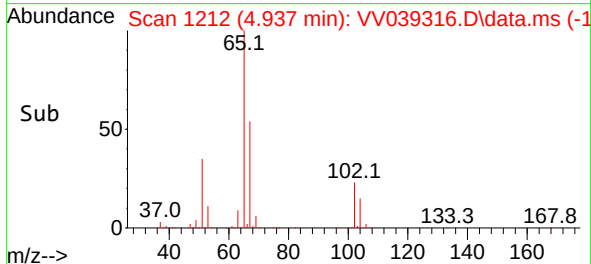
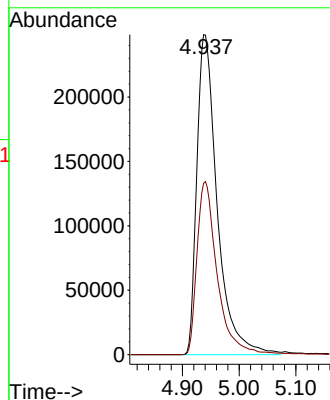
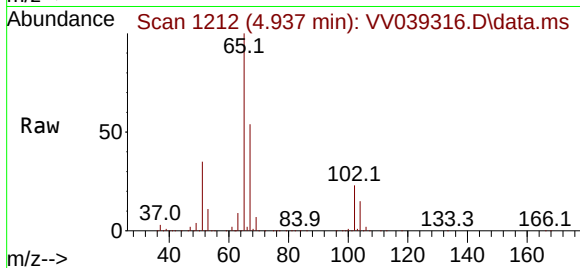
ClientSampleId :

Tgt Ion: 65 Resp: 620023

Ion Ratio Lower Upper

65 100

67 54.0 0.0 108.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.000 min

Lab File: VV039316.D

Acq: 04 Nov 2025 15:54

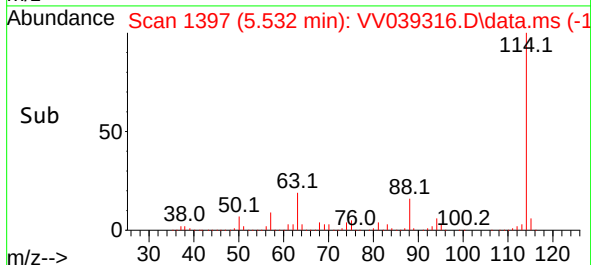
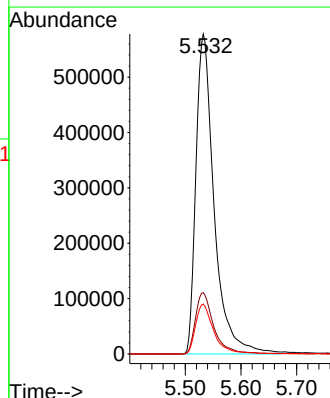
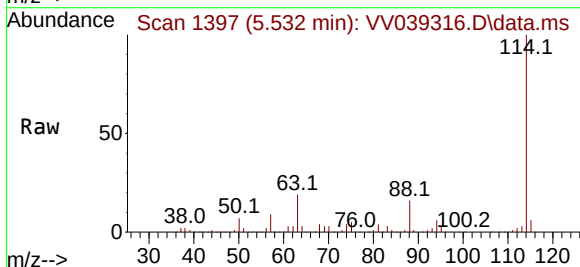
Tgt Ion: 114 Resp: 1312588

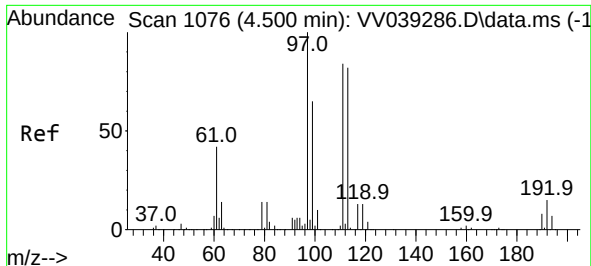
Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.6

88 15.6 0.0 31.6





#35

Dibromofluoromethane

Concen: 53.097 ug/l

RT: 4.500 min Scan# 1107

Delta R.T. 0.000 min

Lab File: VV039316.D

Acq: 04 Nov 2025 15:54

Instrument :

MSVOA_V

ClientSampleId :

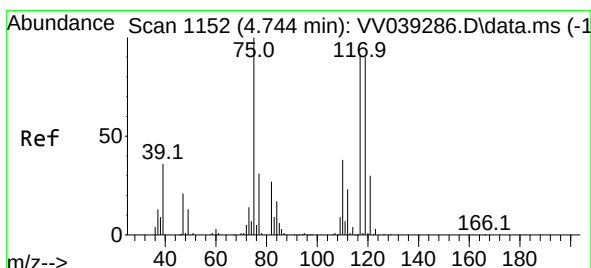
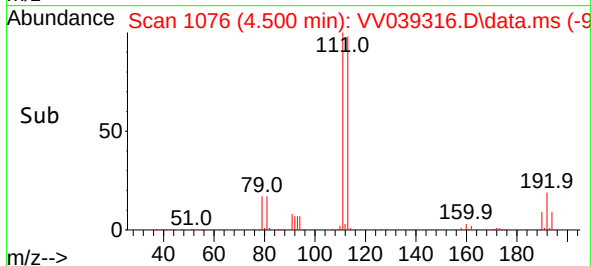
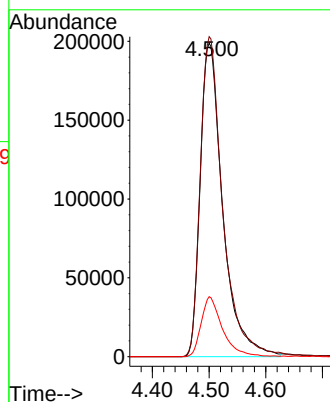
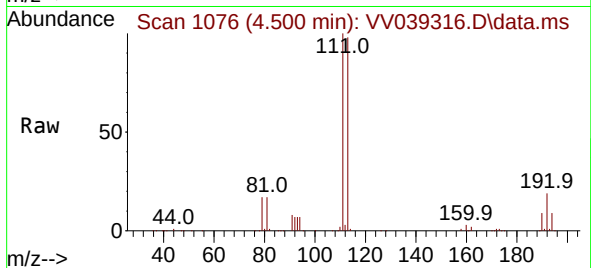
Tgt Ion:113 Resp: 549147

Ion Ratio Lower Upper

113 100

111 101.9 82.0 123.0

192 18.1 14.3 21.5



#36

1,1-Dichloropropene

Concen: 4.199 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. -0.145 min

Lab File: VV039316.D

Acq: 04 Nov 2025 15:54

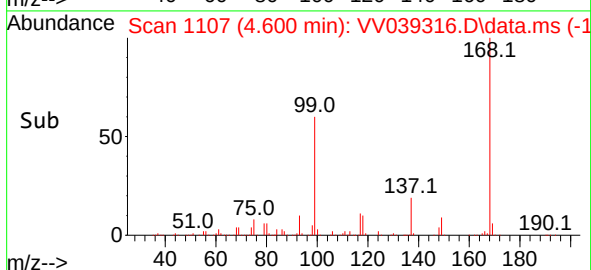
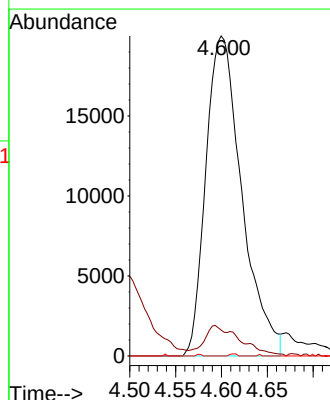
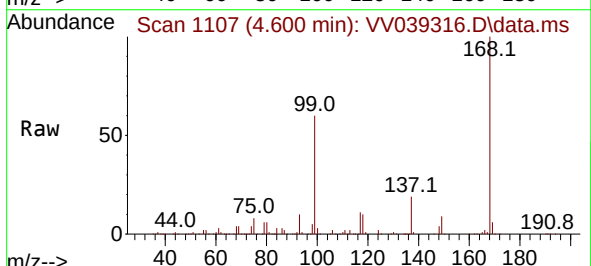
Tgt Ion: 75 Resp: 54547

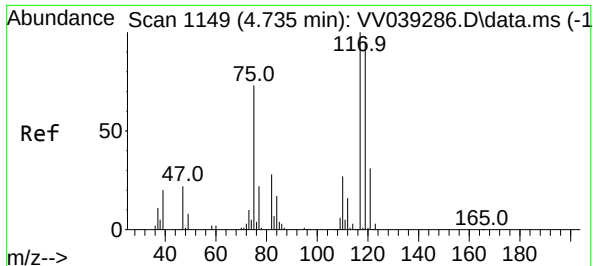
Ion Ratio Lower Upper

75 100

110 9.7 18.9 56.7#

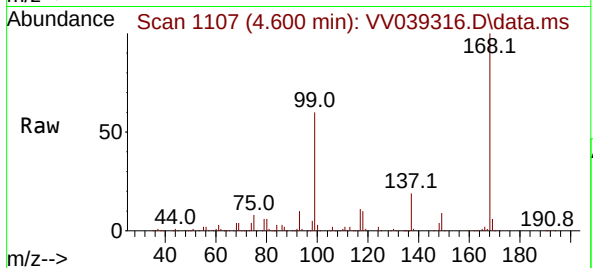
77 0.1 24.1 36.1#



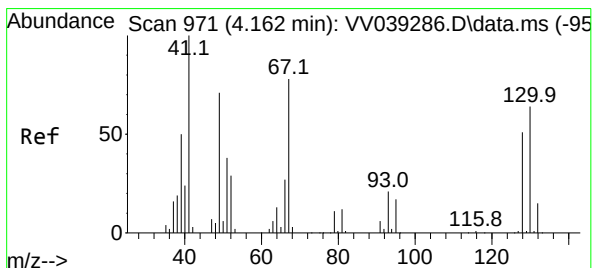
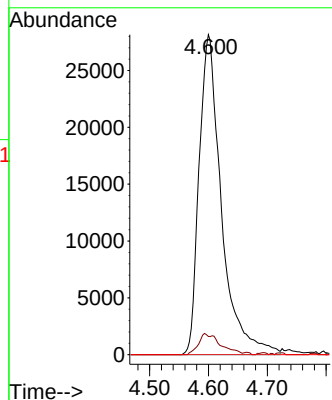
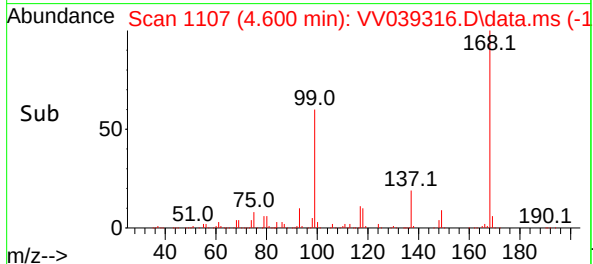


#38
Carbon Tetrachloride
Concen: 4.693 ug/l
RT: 4.600 min Scan# 1149
Delta R.T. -0.135 min
Lab File: VV039316.D
Acq: 04 Nov 2025 15:54

Instrument :
MSVOA_V
ClientSampleId :

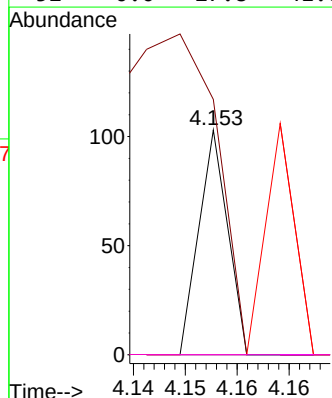
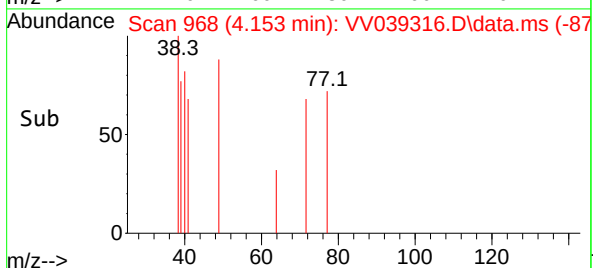
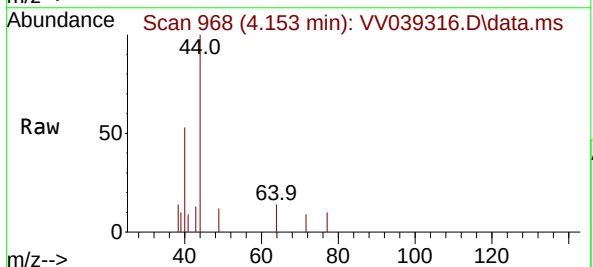


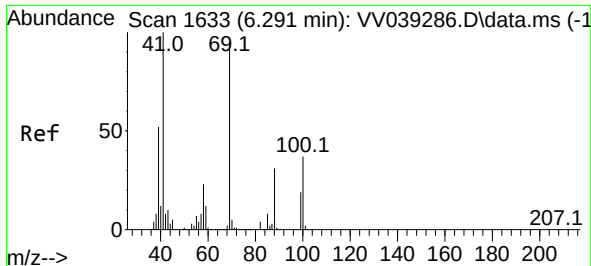
Tgt Ion:117 Resp: 74278
Ion Ratio Lower Upper
117 100
119 5.7 75.9 113.9#
121 0.0 24.6 37.0#



#41
Methacrylonitrile
Concen: 1.694 ug/l
RT: 4.153 min Scan# 968
Delta R.T. -0.010 min
Lab File: VV039316.D
Acq: 04 Nov 2025 15:54

Tgt Ion: 41 Resp: 20
Ion Ratio Lower Upper
41 100
39 610.0 40.9 61.3#
67 100.0 73.1 109.7
52 0.0 27.8 41.6#





#49

1,4-Dioxane

Concen: 0.339 ug/l

RT: 6.227 min Scan# 1

Delta R.T. -0.064 min

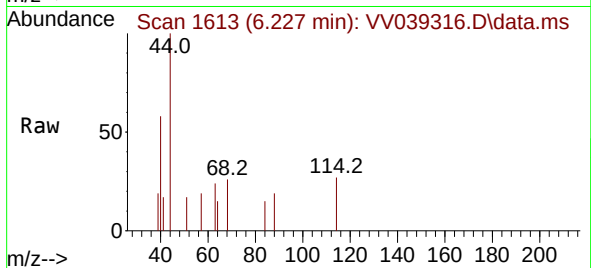
Lab File: VV039316.D

Acq: 04 Nov 2025 15:54

Instrument :

MSVOA_V

ClientSampleId :



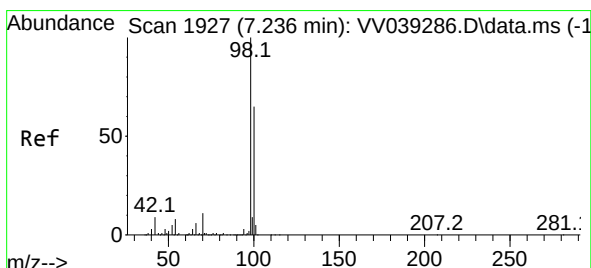
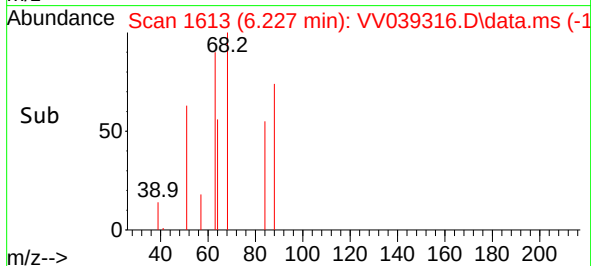
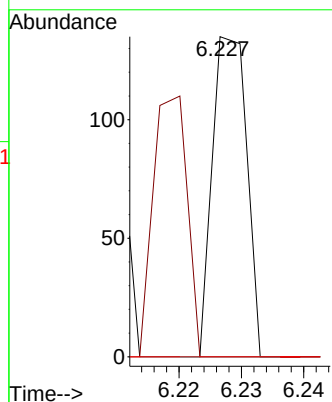
Tgt Ion: 88 Resp: 52

Ion Ratio Lower Upper

88 100

43 80.8 24.1 36.1#

58 0.0 57.6 86.4#



#50

Toluene-d8

Concen: 48.909 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. -0.000 min

Lab File: VV039316.D

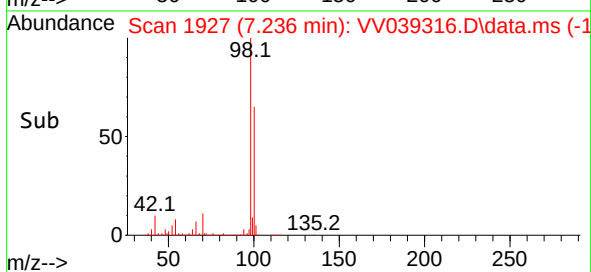
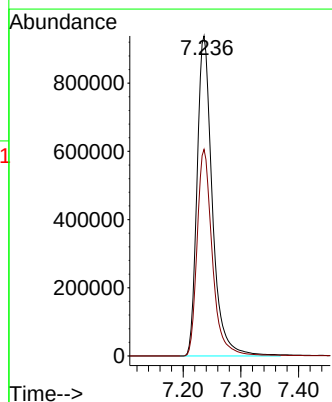
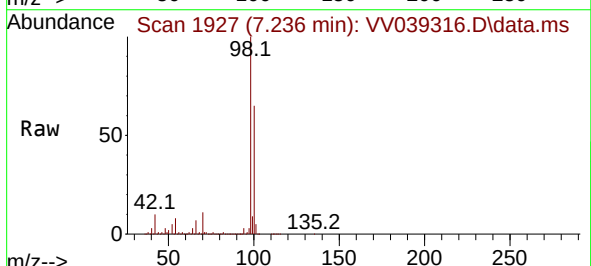
Acq: 04 Nov 2025 15:54

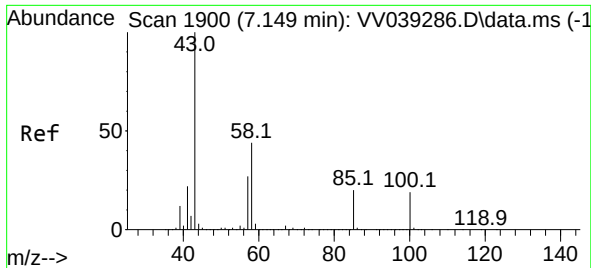
Tgt Ion: 98 Resp: 1720807

Ion Ratio Lower Upper

98 100

100 64.5 52.8 79.2

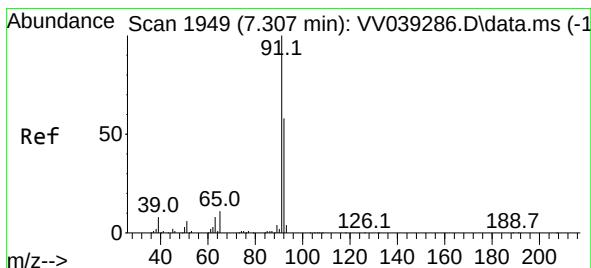
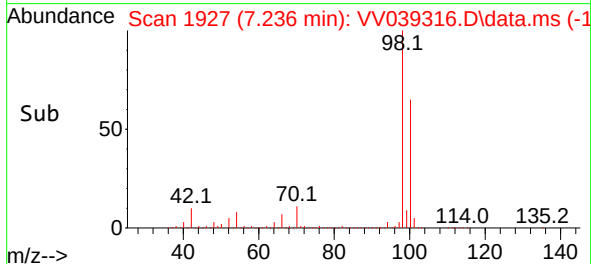
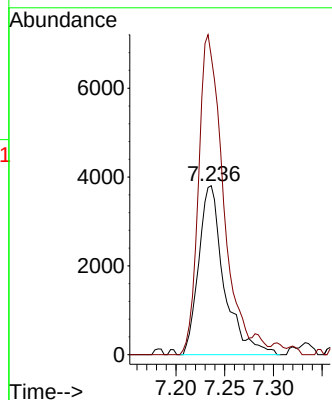
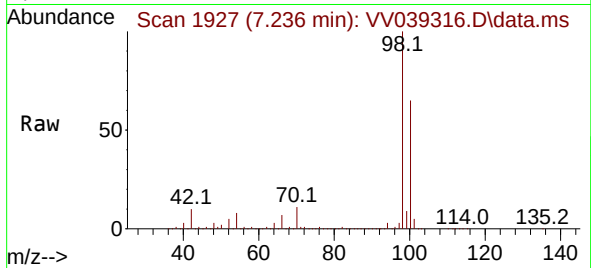




#51
4-Methyl-2-Pentanone
Concen: 0.500 ug/l
RT: 7.236 min Scan# 1900
Delta R.T. 0.087 min
Lab File: VV039316.D
Acq: 04 Nov 2025 15:54

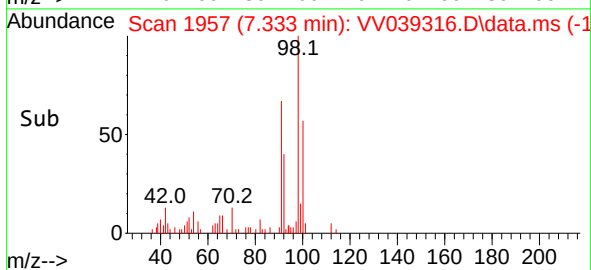
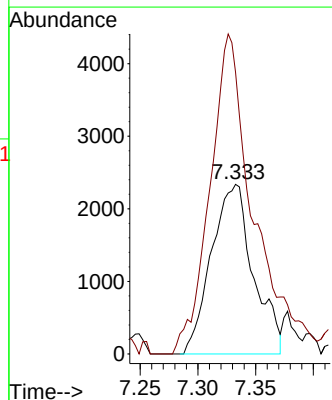
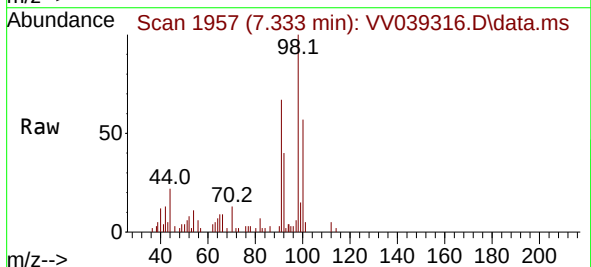
Instrument :
MSVOA_V
ClientSampleId :

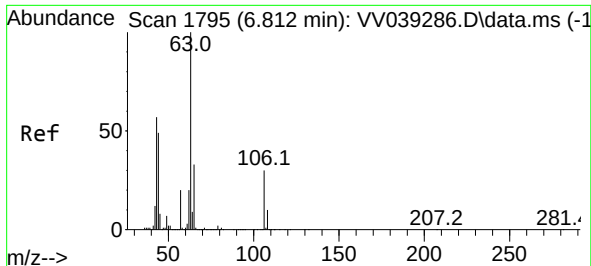
Tgt Ion: 43 Resp: 6910
Ion Ratio Lower Upper
43 100
58 182.1 34.2 51.4#



#52
Toluene
Concen: 0.235 ug/l
RT: 7.333 min Scan# 1957
Delta R.T. 0.026 min
Lab File: VV039316.D
Acq: 04 Nov 2025 15:54

Tgt Ion: 92 Resp: 5904
Ion Ratio Lower Upper
92 100
91 196.4 137.3 205.9

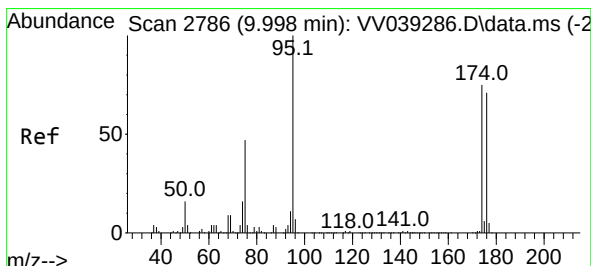
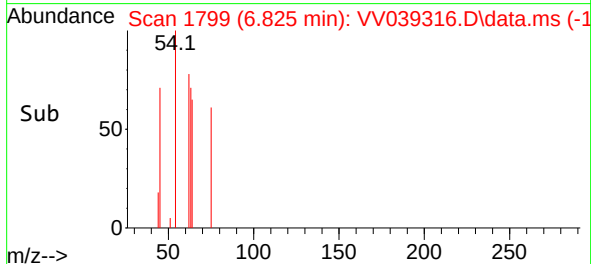
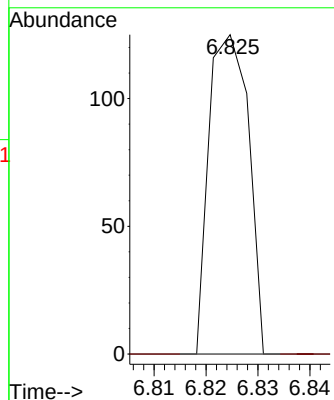
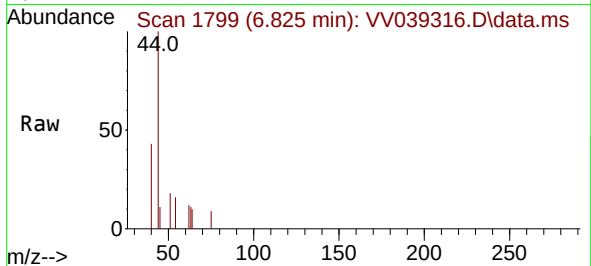




#58
2-Chloroethyl Vinyl ether
Concen: 8.476 ug/l
RT: 6.825 min Scan# 11
Delta R.T. 0.013 min
Lab File: VV039316.D
Acq: 04 Nov 2025 15:54

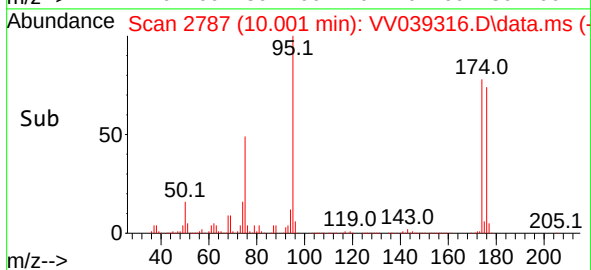
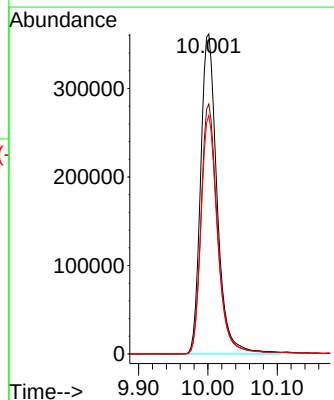
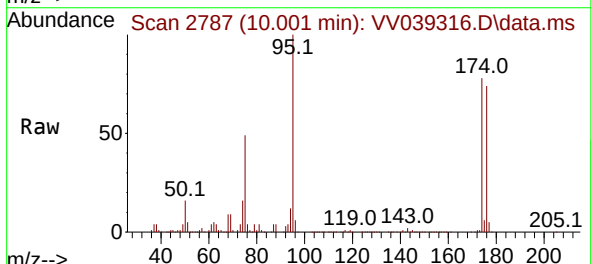
Instrument :
MSVOA_V
ClientSampleId :

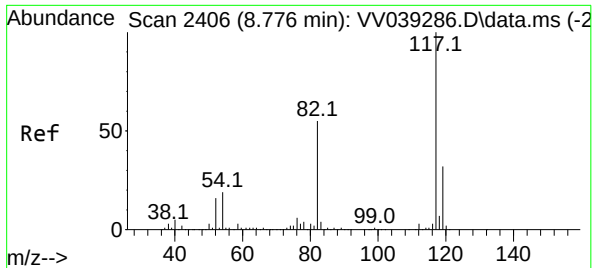
Tgt Ion: 63 Resp: 66
Ion Ratio Lower Upper
63 100
106 0.0 23.5 35.3#



#62
4-Bromofluorobenzene
Concen: 47.617 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039316.D
Acq: 04 Nov 2025 15:54

Tgt Ion: 95 Resp: 596656
Ion Ratio Lower Upper
95 100
174 79.1 0.0 153.6
176 75.0 0.0 146.0

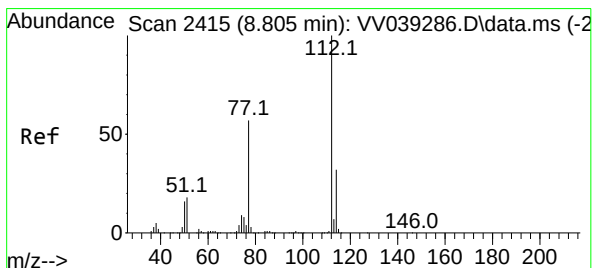
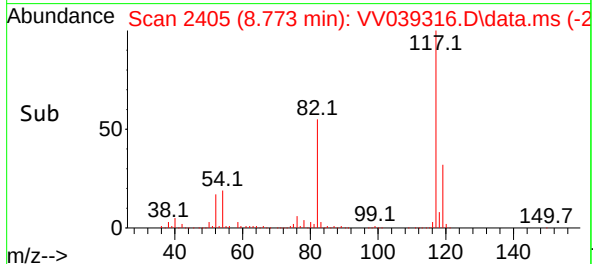
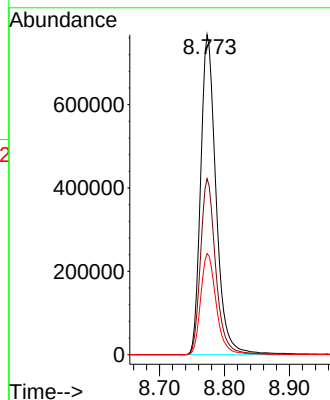
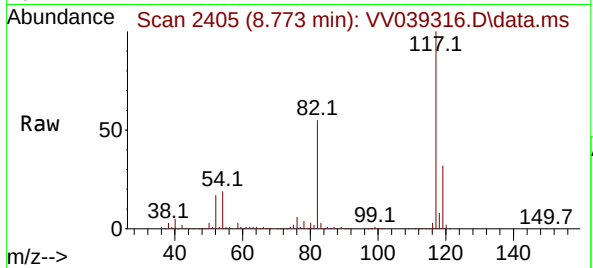




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 2405
Delta R.T. -0.003 min
Lab File: VV039316.D
Acq: 04 Nov 2025 15:54

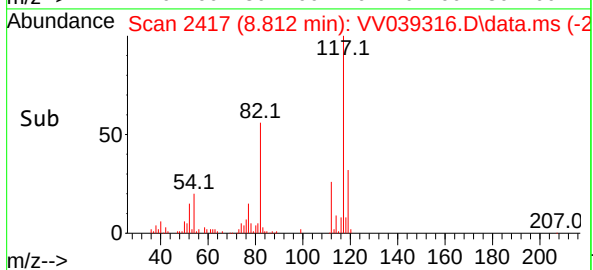
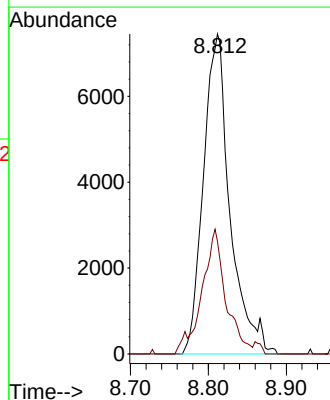
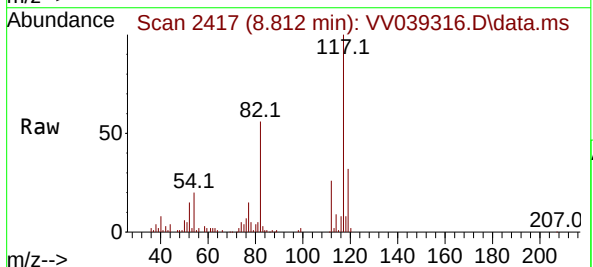
Instrument :
MSVOA_V
ClientSampleId :

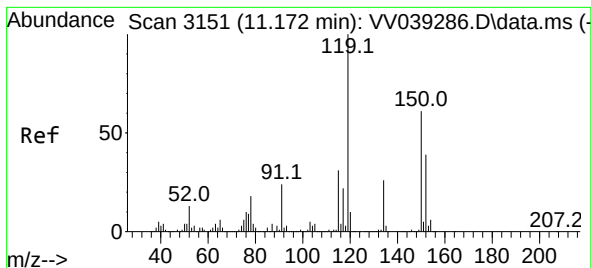
Tgt Ion:117 Resp: 1267623
Ion Ratio Lower Upper
117 100
82 55.0 43.8 65.8
119 31.6 25.8 38.6



#65
Chlorobenzene
Concen: 0.588 ug/l
RT: 8.812 min Scan# 2417
Delta R.T. 0.006 min
Lab File: VV039316.D
Acq: 04 Nov 2025 15:54

Tgt Ion:112 Resp: 17643
Ion Ratio Lower Upper
112 100
114 35.2 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 3151

Delta R.T. -0.000 min

Lab File: VV039316.D

Acq: 04 Nov 2025 15:54

Instrument :

MSVOA_V

ClientSampleId :

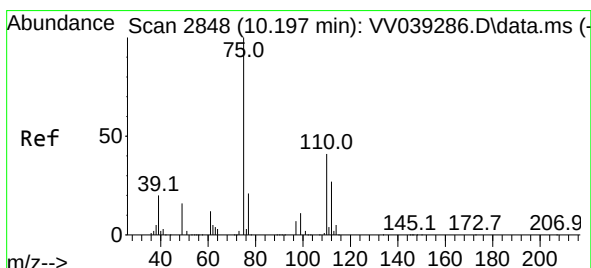
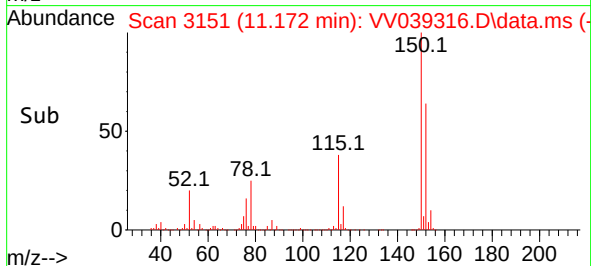
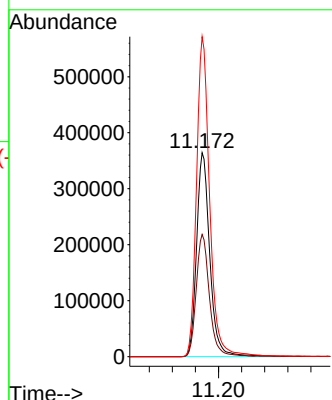
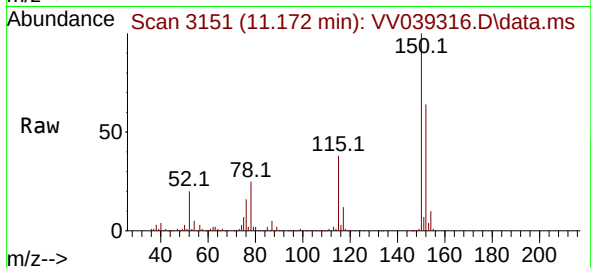
Tgt Ion:152 Resp: 578801

Ion Ratio Lower Upper

152 100

115 60.0 42.3 126.8

150 156.0 0.0 348.0



#76

1,2,3-Trichloropropane

Concen: 25.308 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.196 min

Lab File: VV039316.D

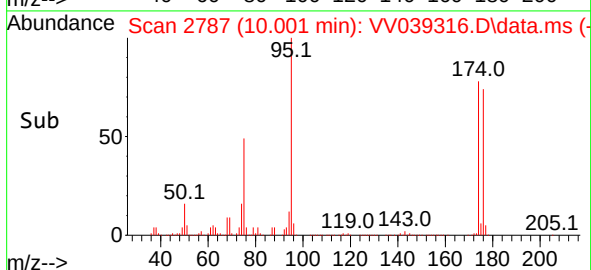
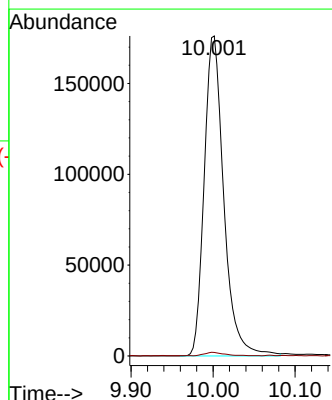
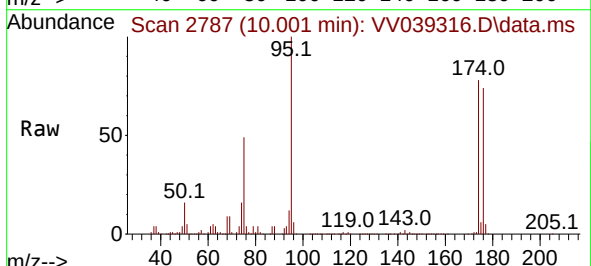
Acq: 04 Nov 2025 15:54

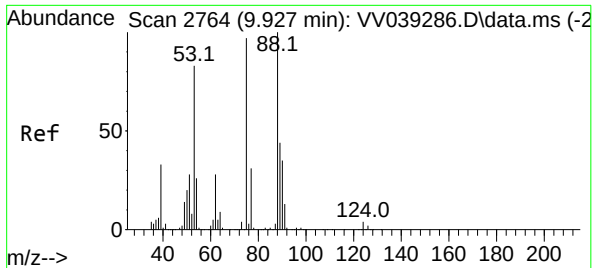
Tgt Ion: 75 Resp: 292362

Ion Ratio Lower Upper

75 100

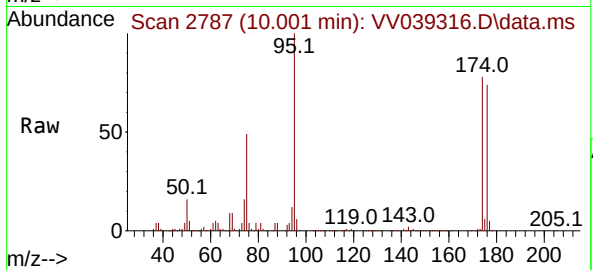
77 1.1 12.2 36.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.915 ug/l
 RT: 10.001 min Scan# 21
 Delta R.T. 0.074 min
 Lab File: VV039316.D
 Acq: 04 Nov 2025 15:54

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion: 75 Resp: 292362
 Ion Ratio Lower Upper
 75 100
 53 0.1 69.9 104.9#
 89 0.0 37.4 56.0#

