

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062725\
 Data File : VN087219.D
 Acq On : 27 Jun 2025 14:12
 Operator : JC\MD
 Sample : Q2420-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 72-11933

Quant Time: Jun 27 23:44:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 27 05:55:21 2025
 Response via : Initial Calibration

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

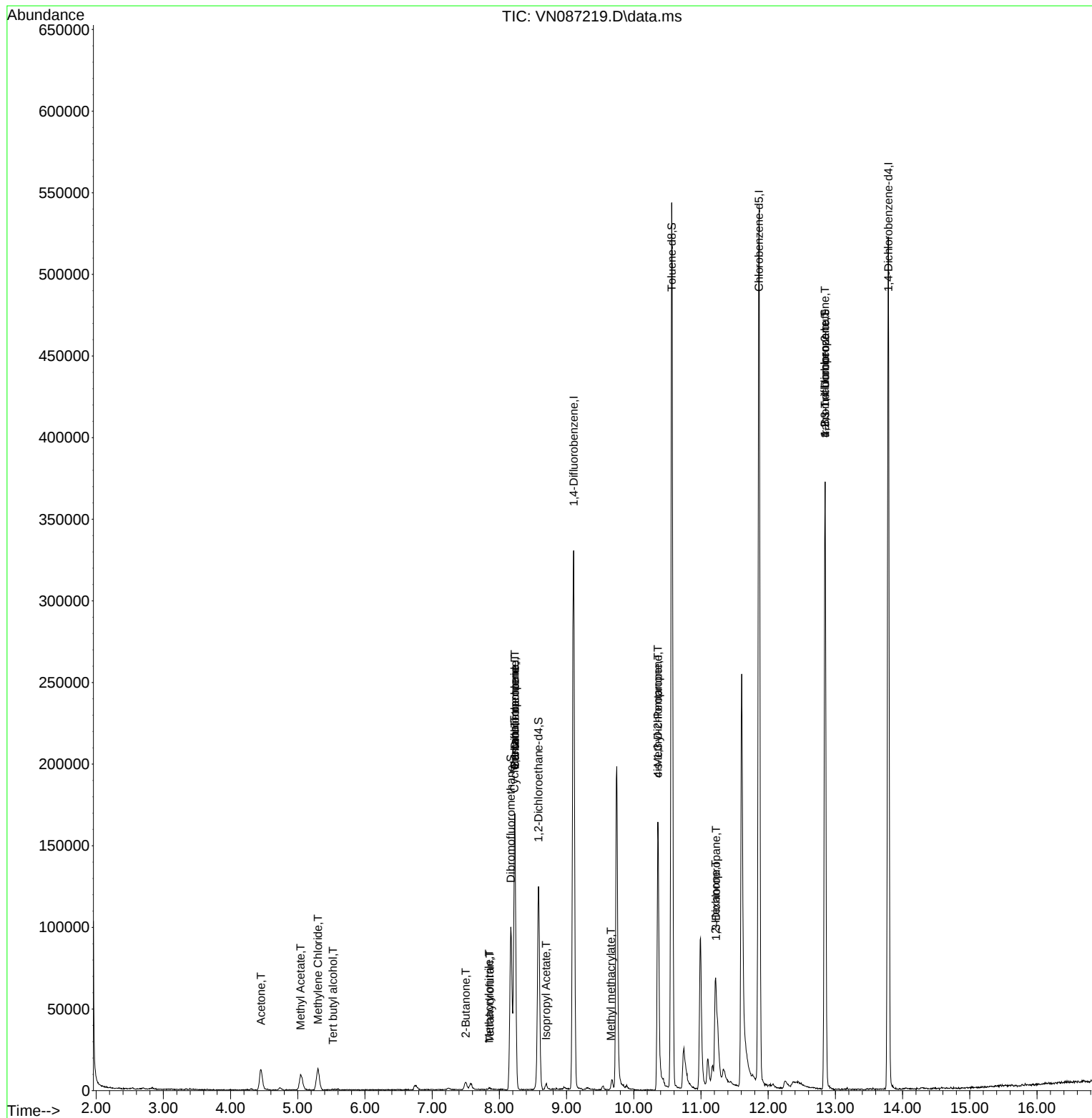
Internal Standards						
1) Pentafluorobenzene	8.229	168	127267	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	301424	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	321898	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	147755	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	103060	56.271	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 112.540%	
35) Dibromofluoromethane	8.171	113	74022	37.985	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 75.960%	
50) Toluene-d8	10.565	98	380879	47.257	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 94.520%	
62) 4-Bromofluorobenzene	12.847	95	146187	52.272	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 104.540%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.524	59	473	1.172	ug/l #	73
14) Allyl chloride	5.030	41	56	Below Cal	#	23
16) Acetone	4.453	43	26335	17.080	ug/l	94
17) Carbon Disulfide	4.724	76	214	Below Cal	#	76
18) Methyl Acetate	5.041	43	21655	8.981	ug/l	100
20) Methylene Chloride	5.300	84	10967	5.131	ug/l	91
25) 2-Butanone	7.500	43	9161	6.597	ug/l	96
29) Tetrahydrofuran	7.859	42	697	0.766	ug/l #	31
31) Cyclohexane	8.224	56	2932	1.034	ug/l #	8
36) 1,1-Dichloropropene	8.229	75	9781	3.427	ug/l #	48
37) Ethyl Acetate	7.571	43	6559	Below Cal	#	92
38) Carbon Tetrachloride	8.229	117	12628	4.543	ug/l #	16
41) Methacrylonitrile	7.847	41	426	0.228	ug/l #	30
43) Isopropyl Acetate	8.694	43	3870	0.737	ug/l #	68
48) Methyl methacrylate	9.659	41	851	0.335	ug/l #	13
51) 4-Methyl-2-Pentanone	10.359	43	68297	15.607	ug/l #	45
54) cis-1,3-Dichloropropene	10.359	75	34113	9.293	ug/l #	62
56) Ethyl methacrylate	10.782	69	65	Below Cal	#	28
57) 1,3-Dichloropropane	11.223	76	817	0.217	ug/l #	43
59) 2-Hexanone	11.217	43	17544	7.515	ug/l #	53
76) 1,2,3-Trichloropropane	12.847	75	71331	21.638	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	71331	48.564	ug/l #	13

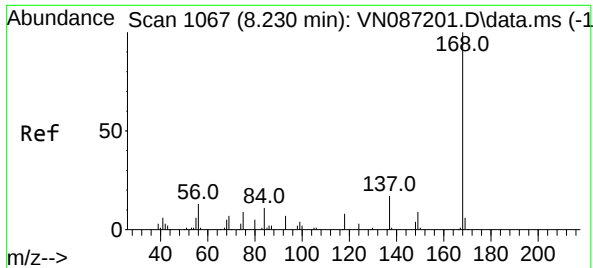
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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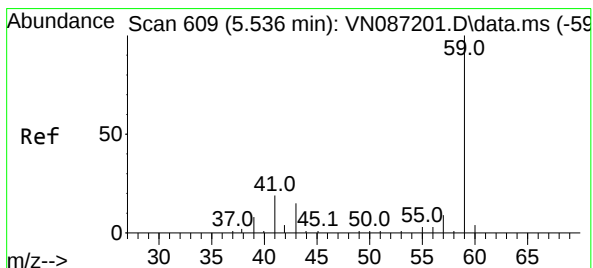
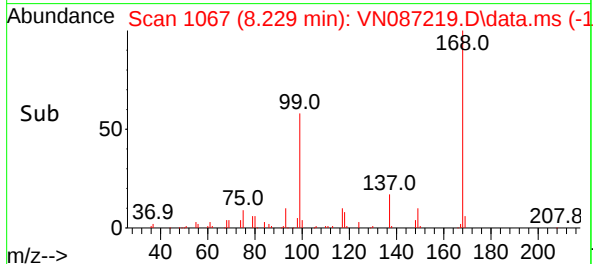
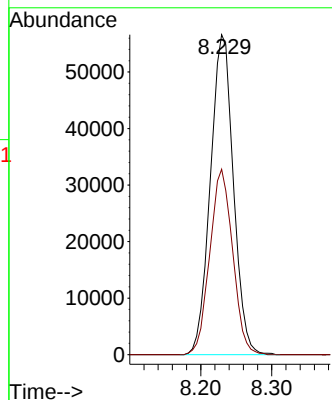
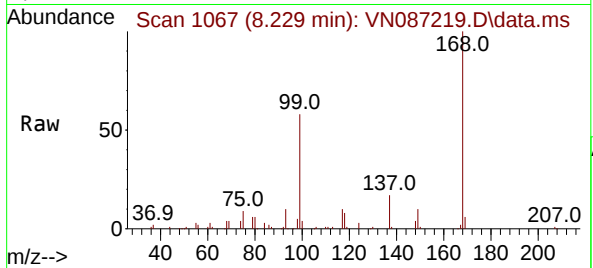




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.001 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

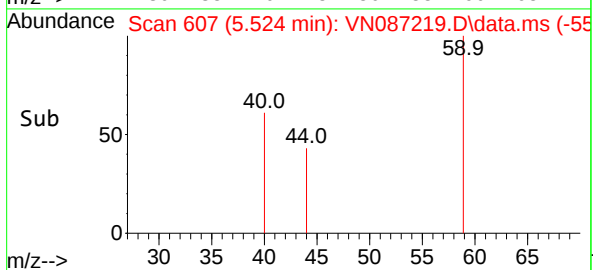
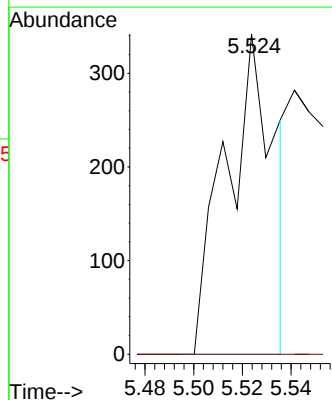
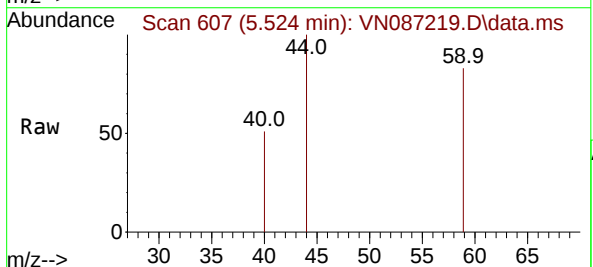
Instrument :
MSVOA_N
ClientSampleId :
72-11933

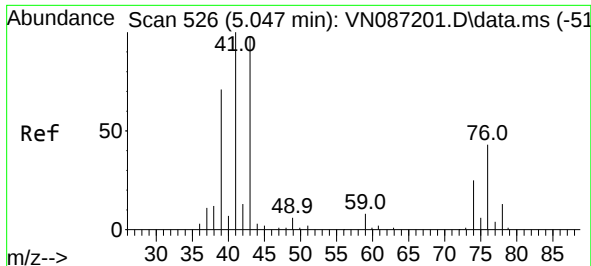
Tgt Ion:168 Resp: 127267
Ion Ratio Lower Upper
168 100
99 57.9 47.9 71.9



#11
Tert butyl alcohol
Concen: 1.172 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.012 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

Tgt Ion: 59 Resp: 473
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

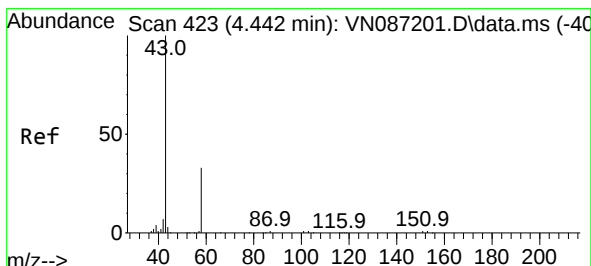
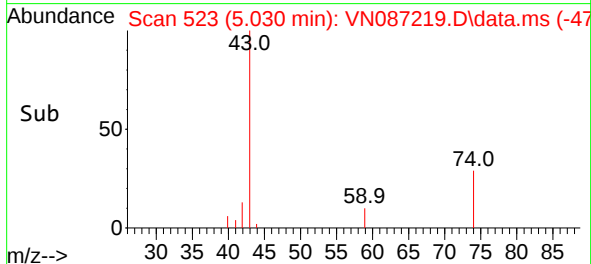
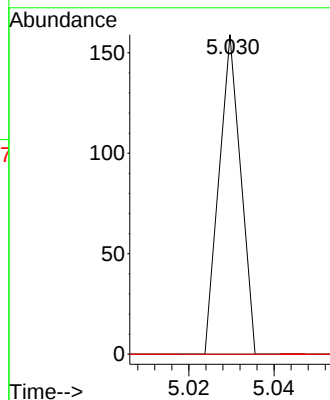
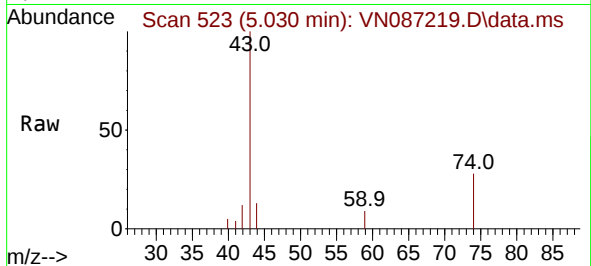




#14
Allyl chloride
Concen: Below Cal
RT: 5.030 min Scan# 51
Delta R.T. -0.017 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

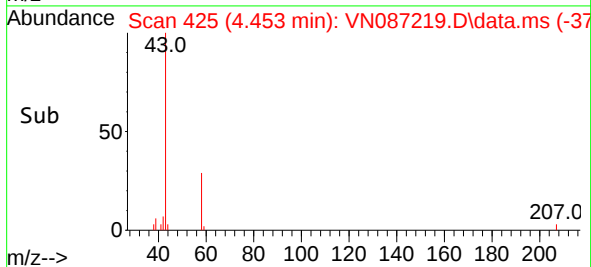
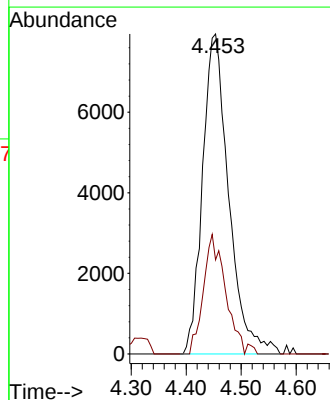
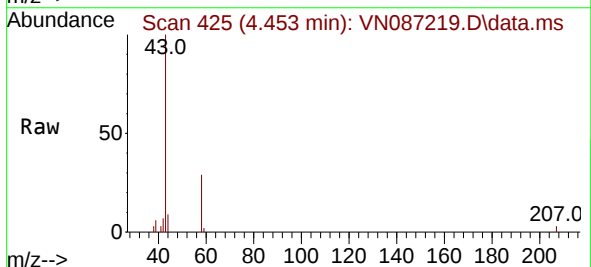
Instrument :
MSVOA_N
ClientSampleId :
72-11933

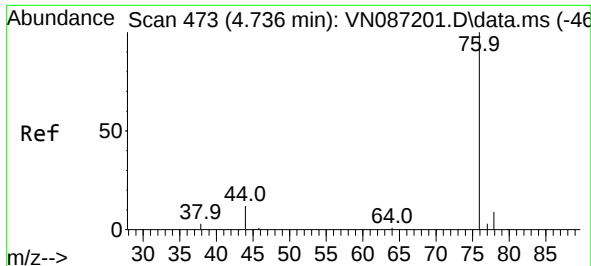
Tgt Ion: 41 Resp: 56
Ion Ratio Lower Upper
41 100
39 0.0 55.0 82.6#
76 0.0 31.3 46.9#



#16
Acetone
Concen: 17.080 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.011 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

Tgt Ion: 43 Resp: 26335
Ion Ratio Lower Upper
43 100
58 29.4 26.5 39.7

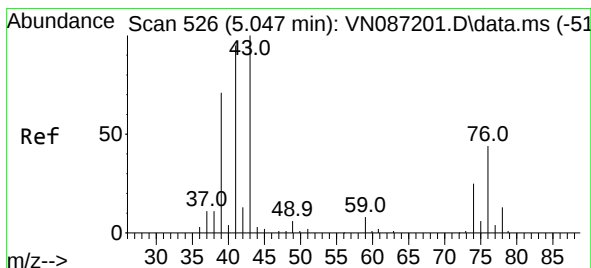
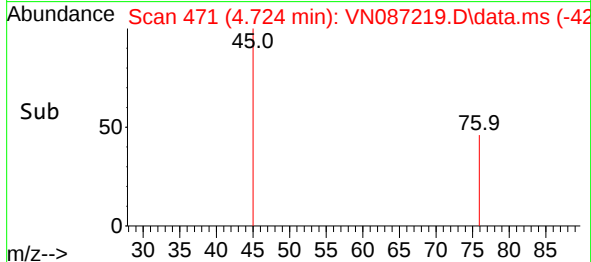
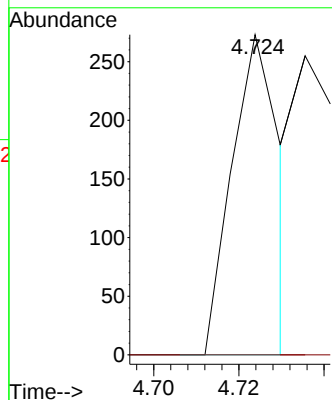
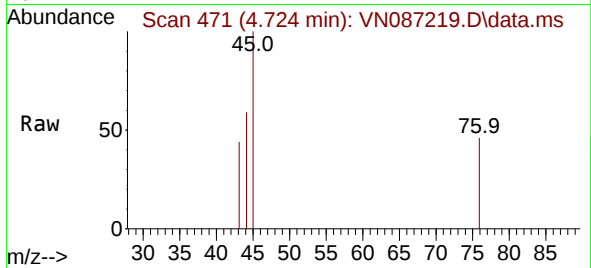




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.724 min Scan# 41
Delta R.T. -0.012 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

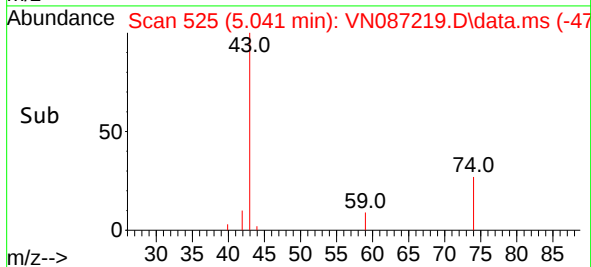
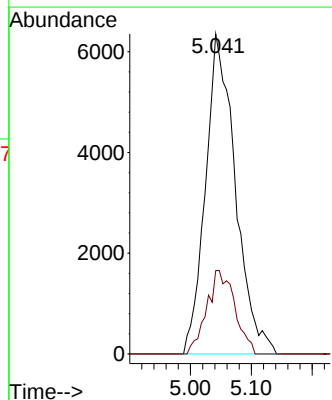
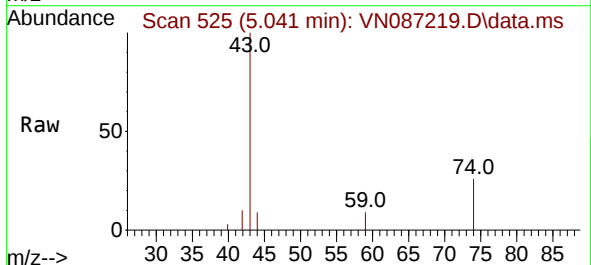
Instrument :
MSVOA_N
ClientSampleId :
72-11933

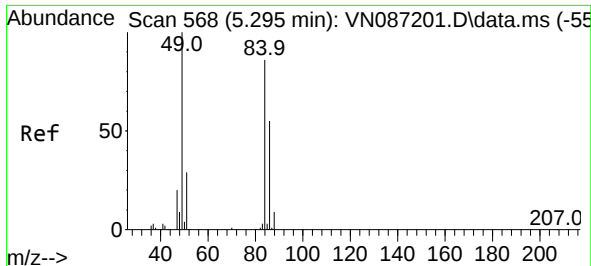
Tgt Ion: 76 Resp: 214
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



#18
Methyl Acetate
Concen: 8.981 ug/l
RT: 5.041 min Scan# 525
Delta R.T. -0.006 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

Tgt Ion: 43 Resp: 21655
Ion Ratio Lower Upper
43 100
74 24.5 19.4 29.2

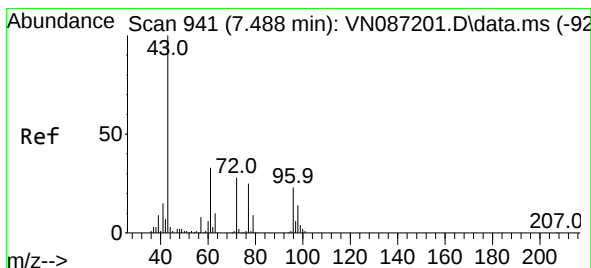
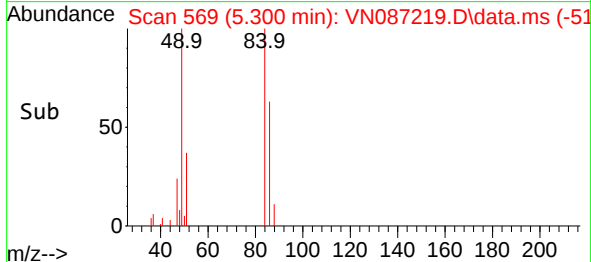
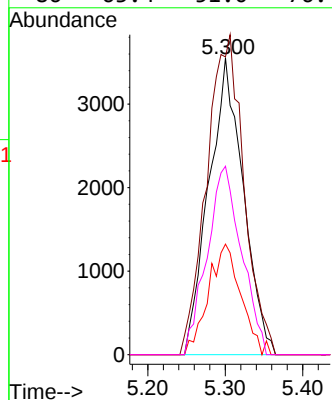
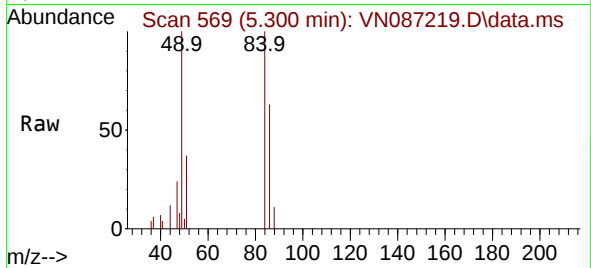




#20
Methylene Chloride
Concen: 5.131 ug/l
RT: 5.300 min Scan# 51
Delta R.T. 0.005 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

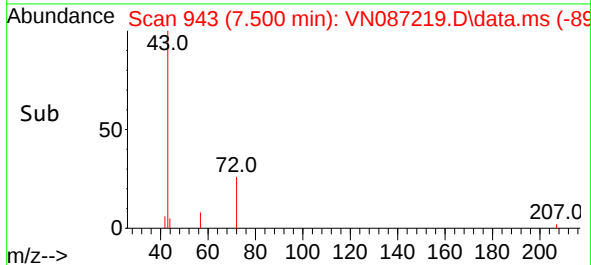
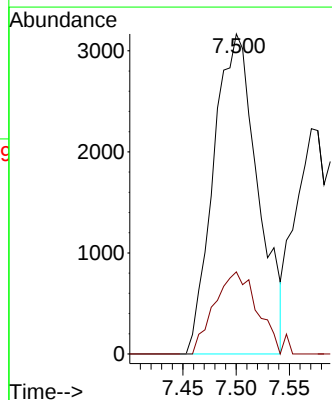
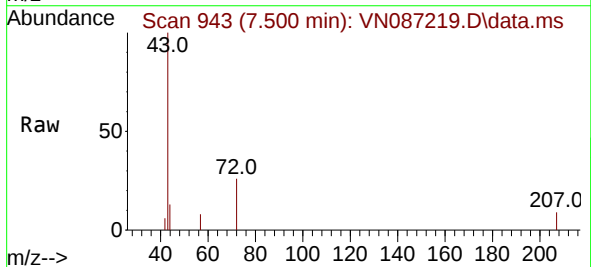
Instrument :
MSVOA_N
ClientSampleId :
72-11933

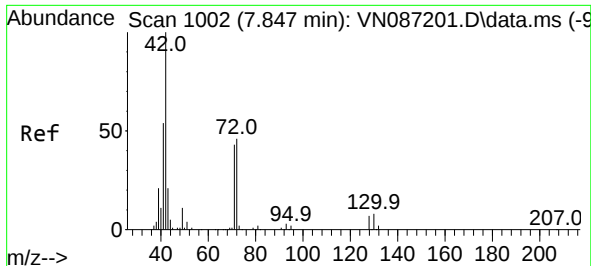
Tgt Ion:	84	Resp:	10967
Ion	Ratio	Lower	Upper
84	100		
49	100.2	93.0	139.6
51	37.2	27.2	40.8
86	63.4	51.0	76.4



#25
2-Butanone
Concen: 6.597 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.012 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

Tgt Ion:	43	Resp:	9161
Ion	Ratio	Lower	Upper
43	100		
72	25.6	22.2	33.2





#29

Tetrahydrofuran

Concen: 0.766 ug/l

RT: 7.859 min Scan# 1066

Delta R.T. 0.012 min

Lab File: VN087219.D

Acq: 27 Jun 2025 14:12

Instrument :

MSVOA_N

ClientSampleId :

72-11933

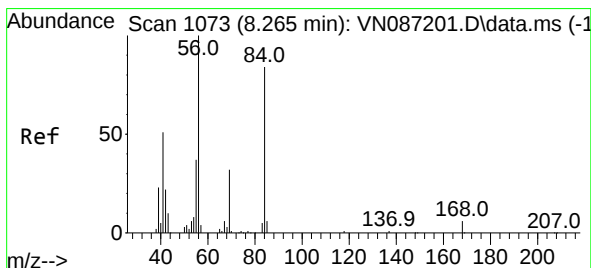
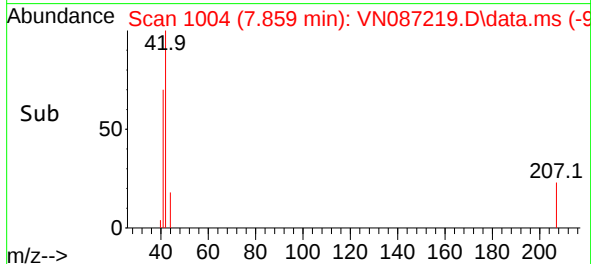
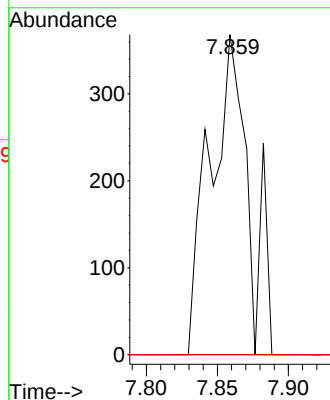
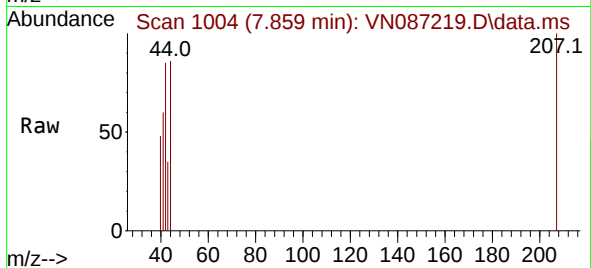
Tgt Ion: 42 Resp: 697

Ion Ratio Lower Upper

42 100

72 0.0 36.9 55.3#

71 0.0 35.0 52.4#



#31

Cyclohexane

Concen: 1.034 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.041 min

Lab File: VN087219.D

Acq: 27 Jun 2025 14:12

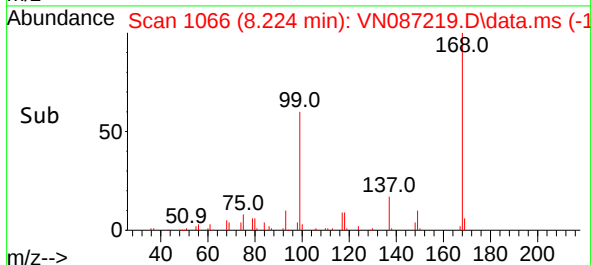
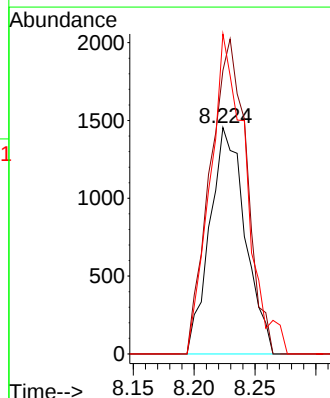
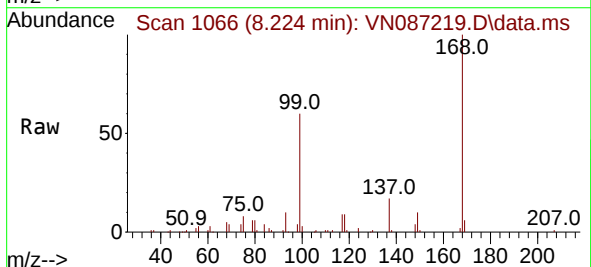
Tgt Ion: 56 Resp: 2932

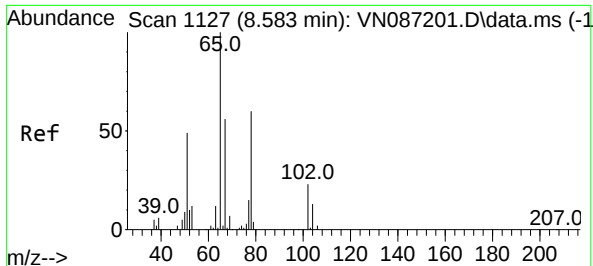
Ion Ratio Lower Upper

56 100

69 125.2 25.3 37.9#

84 141.3 67.4 101.0#





#33

1,2-Dichloroethane-d4

Concen: 56.271 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN087219.D

Acq: 27 Jun 2025 14:12

Instrument :

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ClientSampleId :

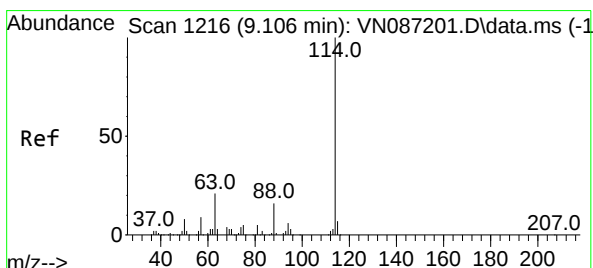
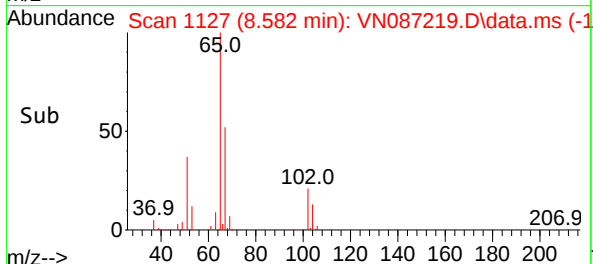
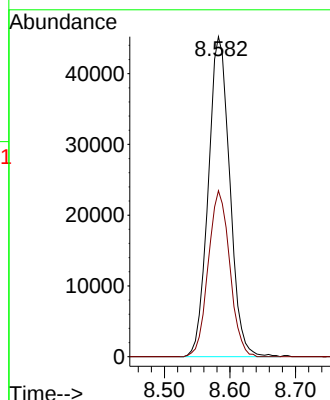
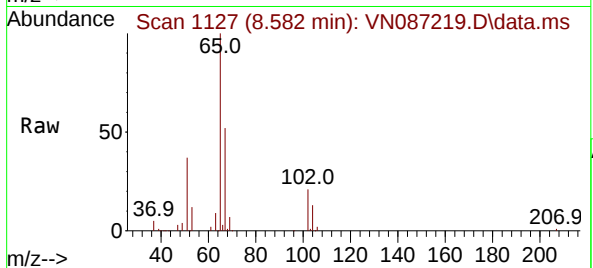
72-11933

Tgt Ion: 65 Resp: 103060

Ion Ratio Lower Upper

65 100

67 51.7 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN087219.D

Acq: 27 Jun 2025 14:12

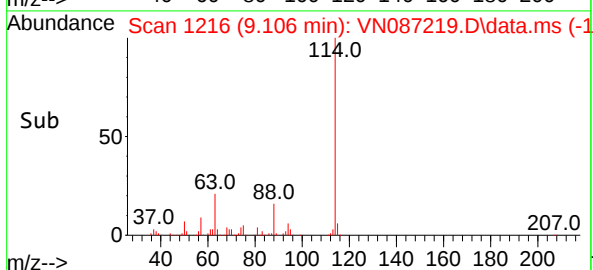
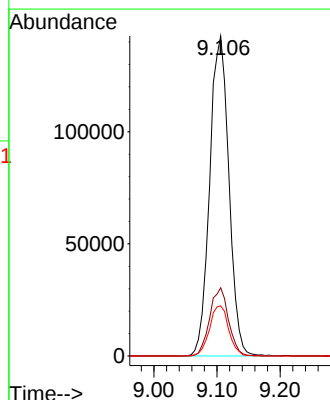
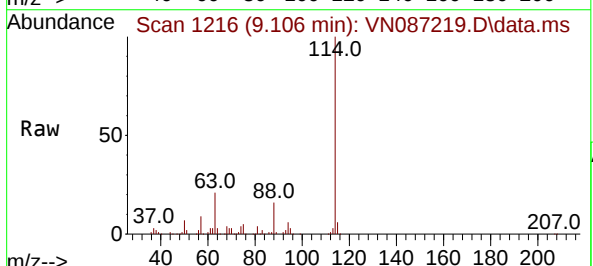
Tgt Ion: 114 Resp: 301424

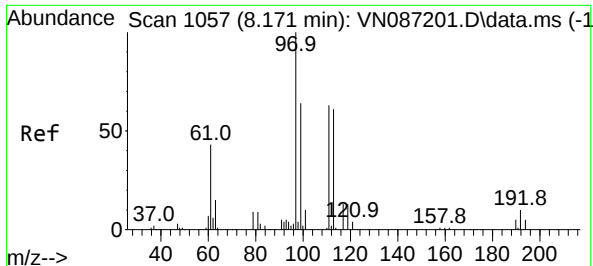
Ion Ratio Lower Upper

114 100

63 21.3 0.0 42.0

88 15.7 0.0 32.0





#35

Dibromofluoromethane

Concen: 37.985 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN087219.D

Acq: 27 Jun 2025 14:12

Instrument :

MSVOA_N

ClientSampleId :

72-11933

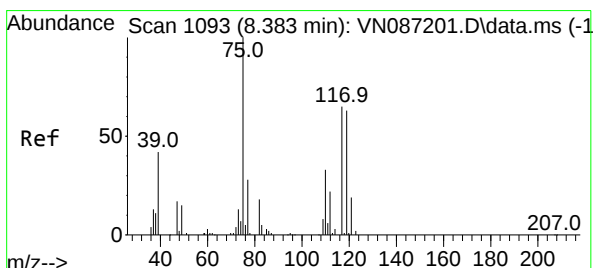
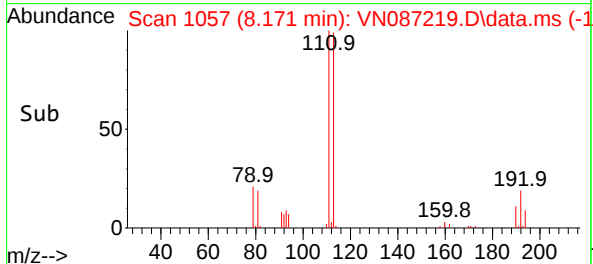
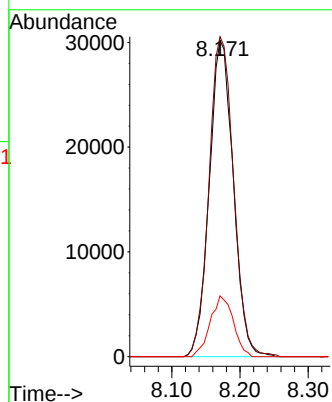
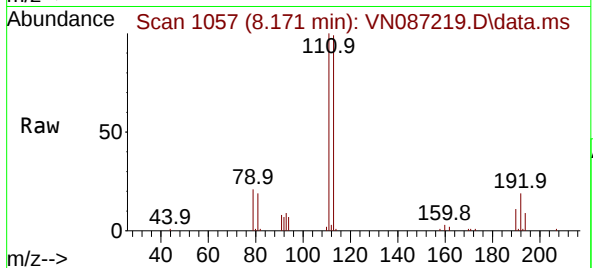
Tgt Ion:113 Resp: 74022

Ion Ratio Lower Upper

113 100

111 103.2 82.6 124.0

192 18.4 13.5 20.3



#36

1,1-Dichloropropene

Concen: 3.427 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.153 min

Lab File: VN087219.D

Acq: 27 Jun 2025 14:12

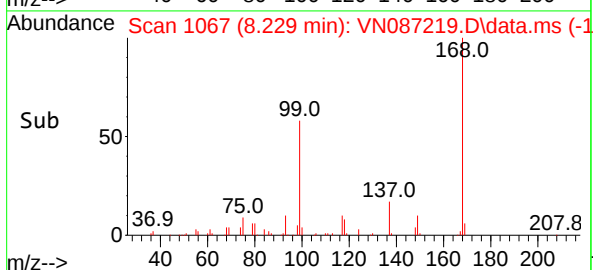
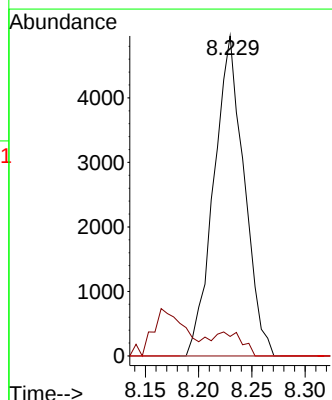
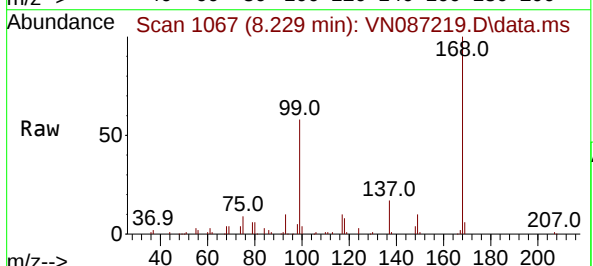
Tgt Ion: 75 Resp: 9781

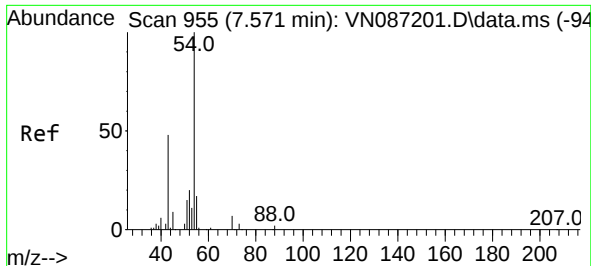
Ion Ratio Lower Upper

75 100

110 6.3 16.9 50.6#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: Below Cal

RT: 7.571 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN087219.D

Acq: 27 Jun 2025 14:12

Instrument :

MSVOA_N

ClientSampleId :

72-11933

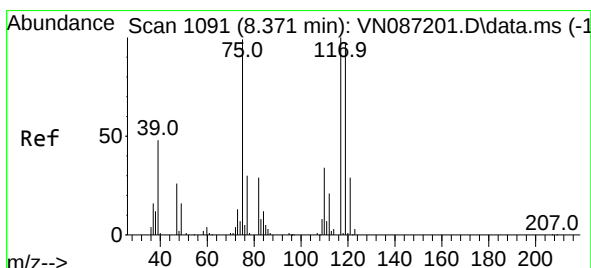
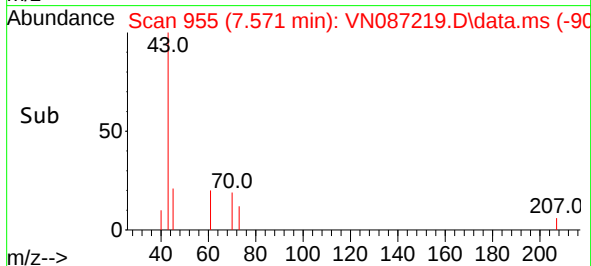
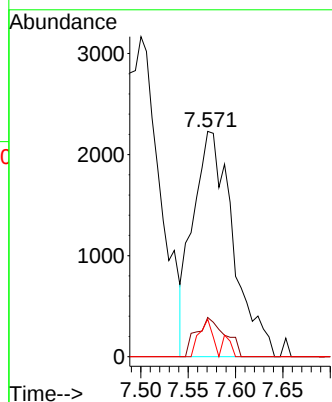
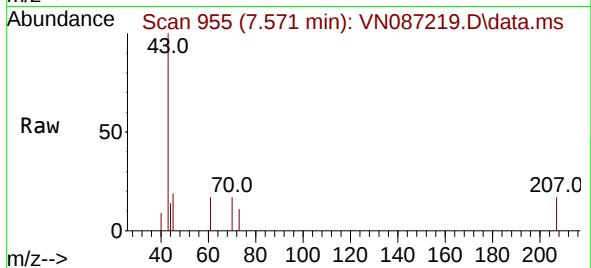
Tgt Ion: 43 Resp: 6559

Ion Ratio Lower Upper

43 100

61 12.5 10.8 16.2

70 5.5 8.9 13.3#



#38

Carbon Tetrachloride

Concen: 4.543 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN087219.D

Acq: 27 Jun 2025 14:12

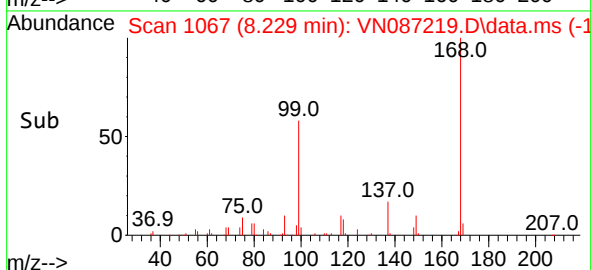
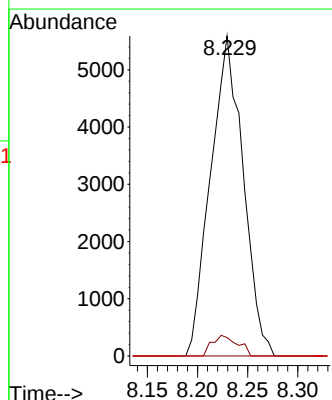
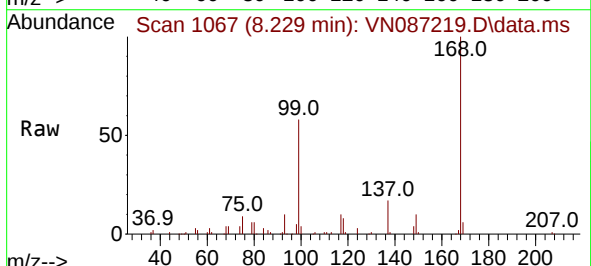
Tgt Ion: 117 Resp: 12628

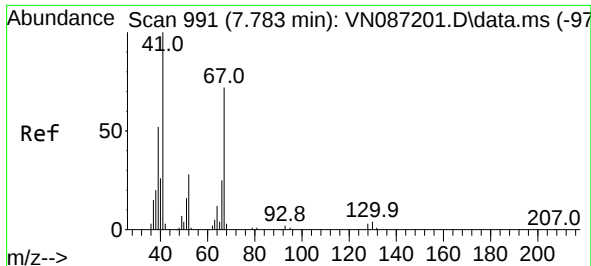
Ion Ratio Lower Upper

117 100

119 5.7 77.4 116.0#

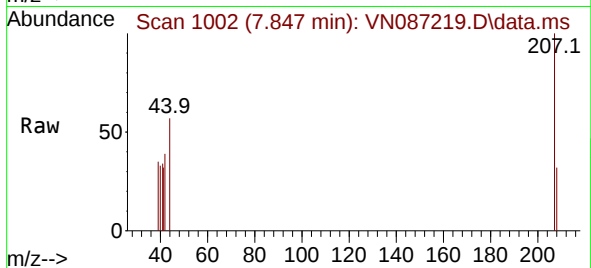
121 0.0 23.2 34.8#



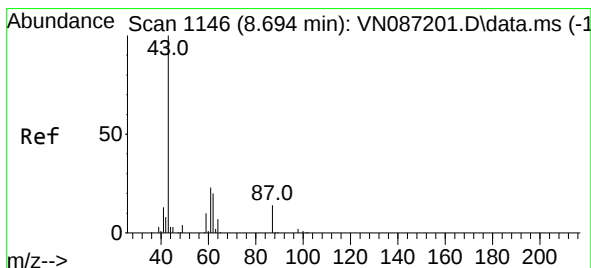
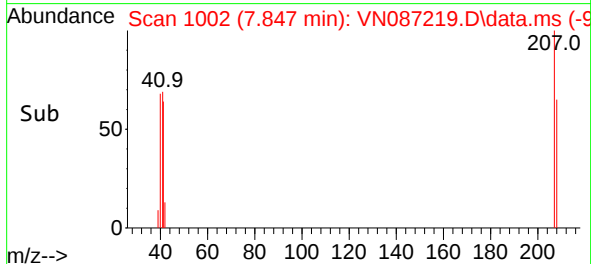
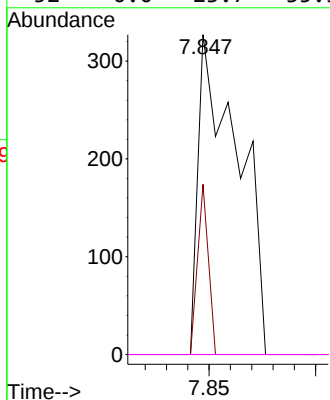


#41
Methacrylonitrile
Concen: 0.228 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.065 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

Instrument :
MSVOA_N
ClientSampleId :
72-11933

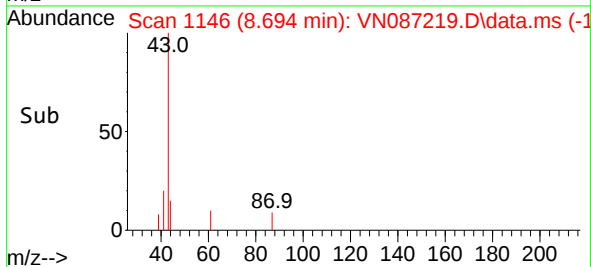
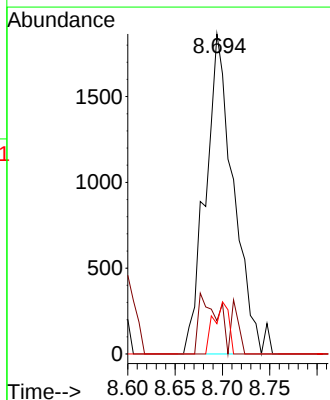
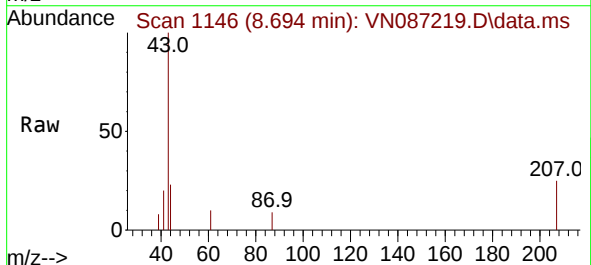


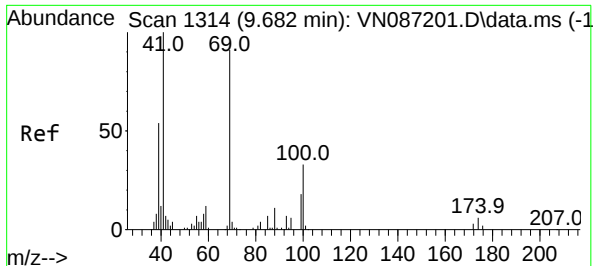
Tgt Ion: 41 Resp: 426
Ion Ratio Lower Upper
41 100
39 14.3 41.3 61.9#
67 0.0 60.2 90.2#
52 0.0 23.7 35.5#



#43
Isopropyl Acetate
Concen: 0.737 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

Tgt Ion: 43 Resp: 3870
Ion Ratio Lower Upper
43 100
61 4.3 21.0 31.6#
87 8.7 11.0 16.6#

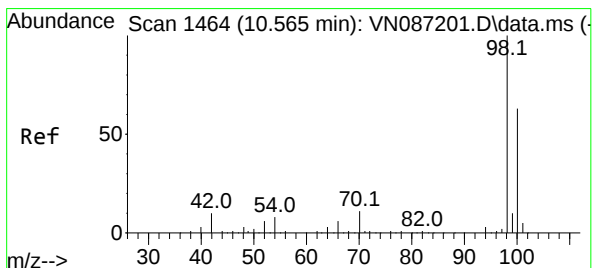
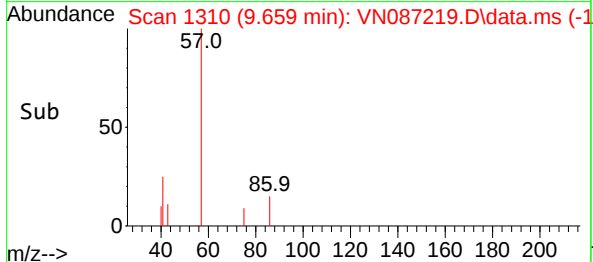
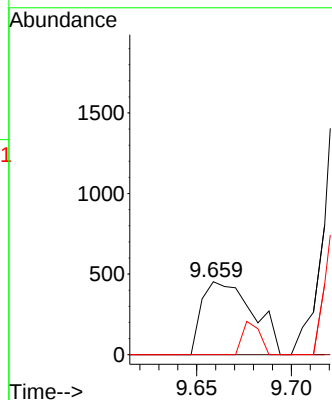
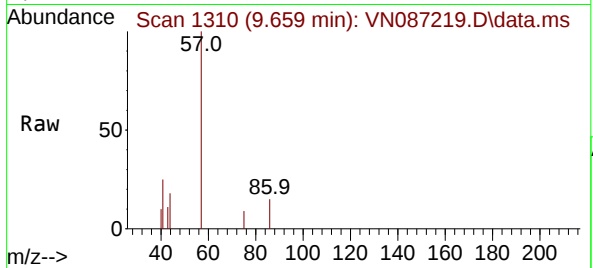




#48
Methyl methacrylate
Concen: 0.335 ug/l
RT: 9.659 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

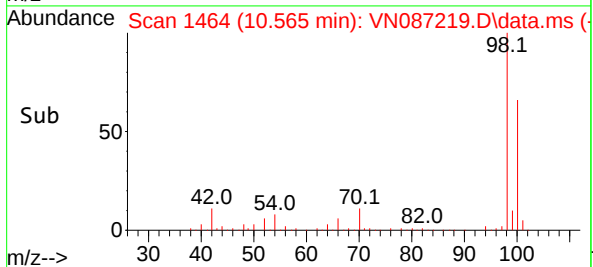
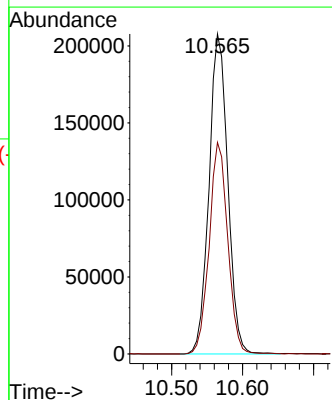
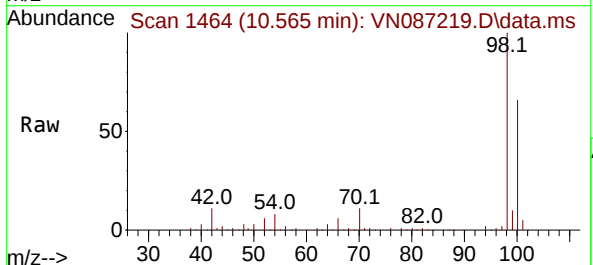
Instrument :
MSVOA_N
ClientSampleId :
72-11933

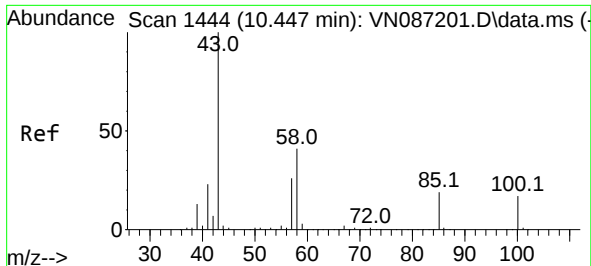
Tgt Ion: 41 Resp: 851
Ion Ratio Lower Upper
41 100
69 0.0 69.9 104.9#
39 0.0 43.8 65.6#



#50
Toluene-d8
Concen: 47.257 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

Tgt Ion: 98 Resp: 380879
Ion Ratio Lower Upper
98 100
100 65.4 52.7 79.1

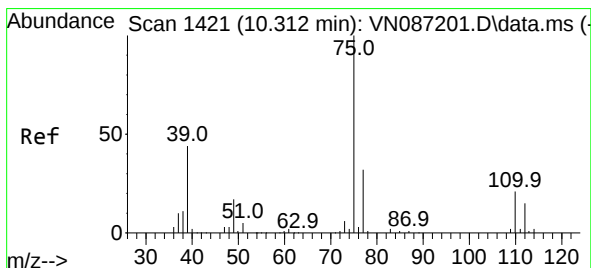
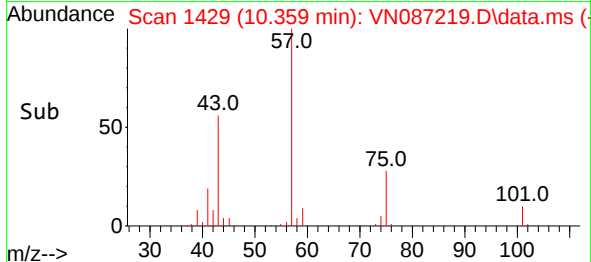
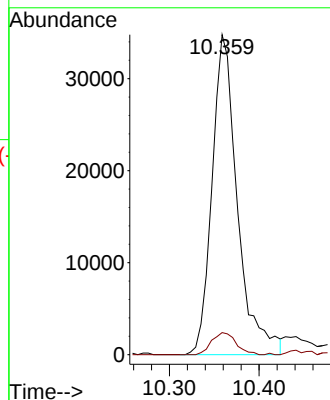
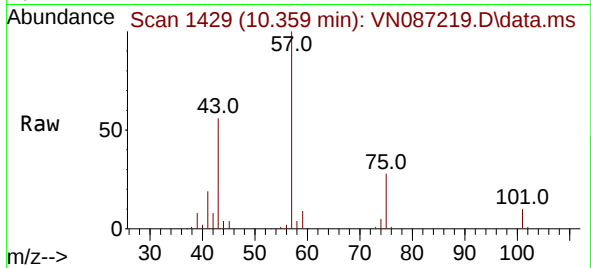




#51
4-Methyl-2-Pentanone
Concen: 15.607 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. -0.088 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

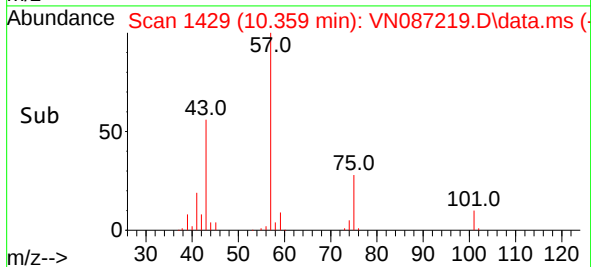
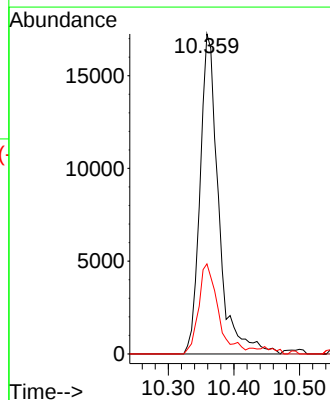
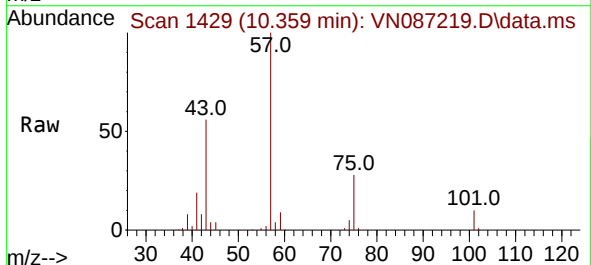
Instrument :
MSVOA_N
ClientSampleId :
72-11933

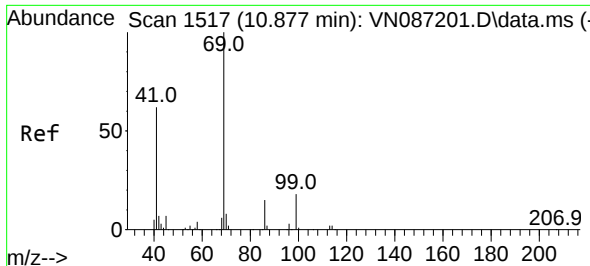
Tgt Ion: 43 Resp: 68297
Ion Ratio Lower Upper
43 100
58 6.6 32.6 48.8#



#54
cis-1,3-Dichloropropene
Concen: 9.293 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

Tgt Ion: 75 Resp: 34113
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#
39 28.2 34.9 52.3#

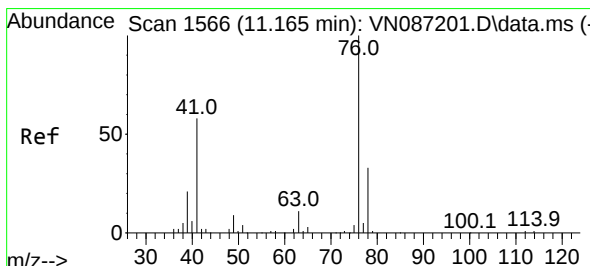
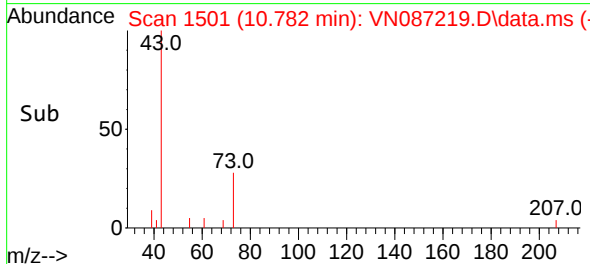
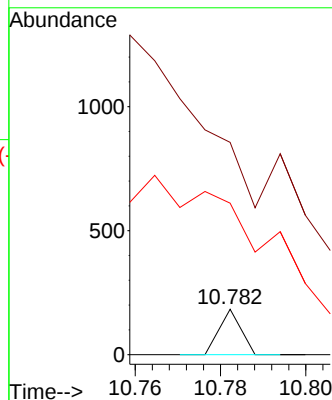
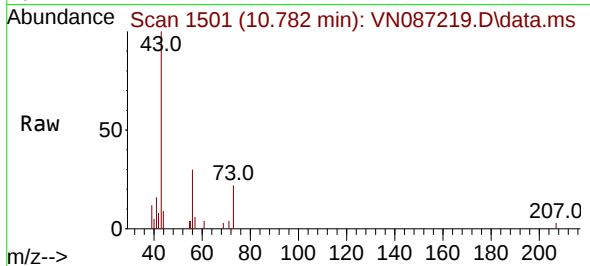




#56
Ethyl methacrylate
Concen: Below Cal
RT: 10.782 min Scan# 11
Delta R.T. -0.095 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

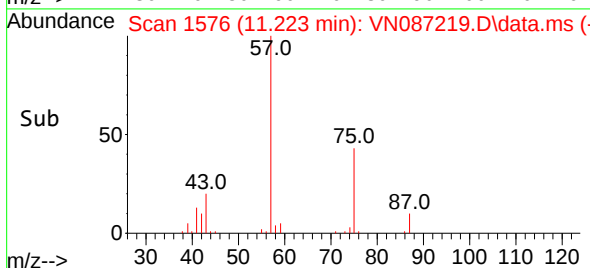
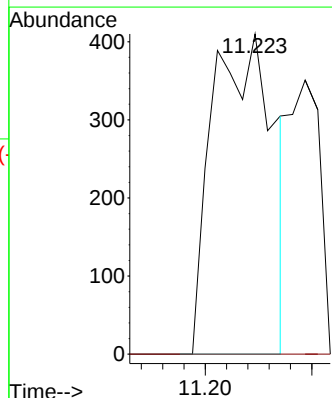
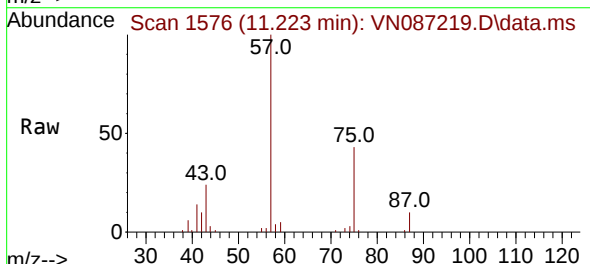
Instrument :
MSVOA_N
ClientSampleId :
72-11933

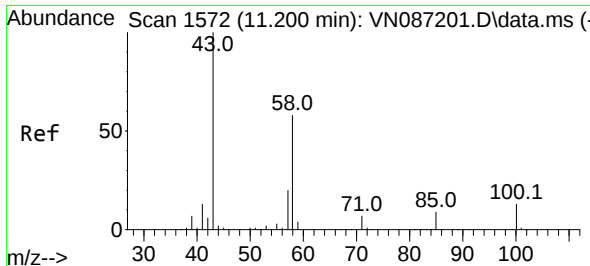
Tgt Ion: 69 Resp: 65
Ion Ratio Lower Upper
69 100
41 0.0 48.4 72.6#
39 0.0 24.1 36.1#



#57
1,3-Dichloropropane
Concen: 0.217 ug/l
RT: 11.223 min Scan# 1576
Delta R.T. 0.058 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

Tgt Ion: 76 Resp: 817
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

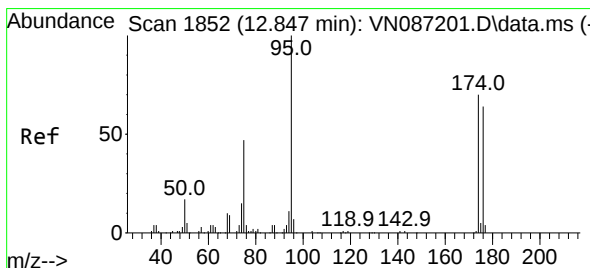
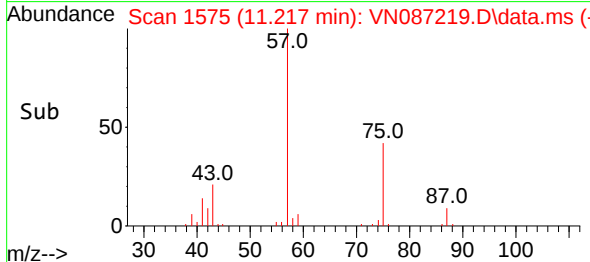
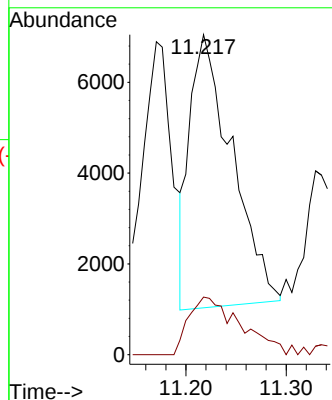
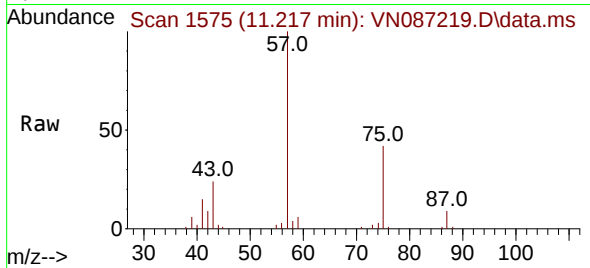




#59
2-Hexanone
Concen: 7.515 ug/l
RT: 11.217 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

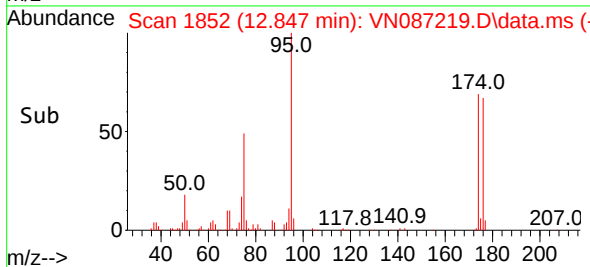
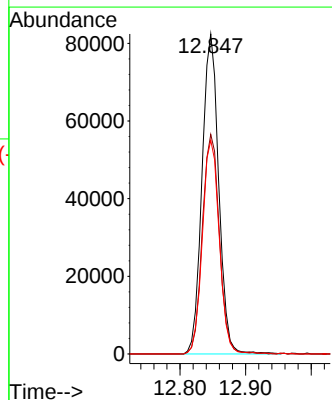
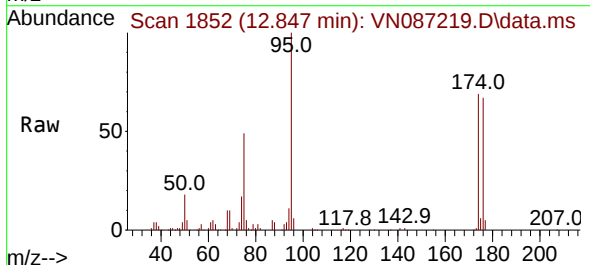
Instrument :
MSVOA_N
ClientSampleId :
72-11933

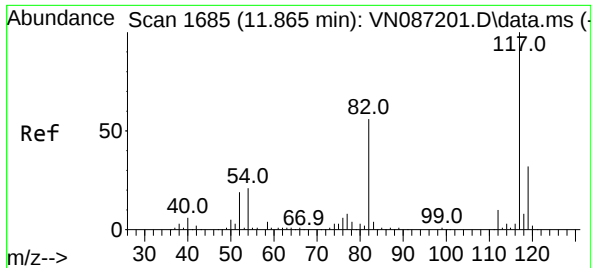
Tgt Ion: 43 Resp: 17544
Ion Ratio Lower Upper
43 100
58 25.8 31.1 93.3#



#62
4-Bromofluorobenzene
Concen: 52.272 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

Tgt Ion: 95 Resp: 146187
Ion Ratio Lower Upper
95 100
174 70.0 0.0 142.2
176 67.6 0.0 134.8

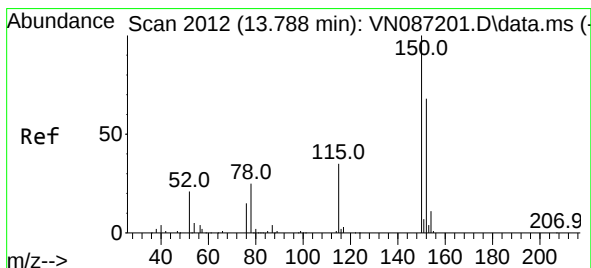
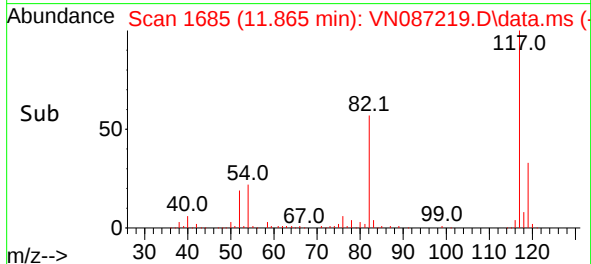
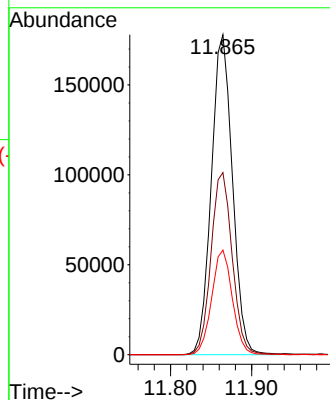
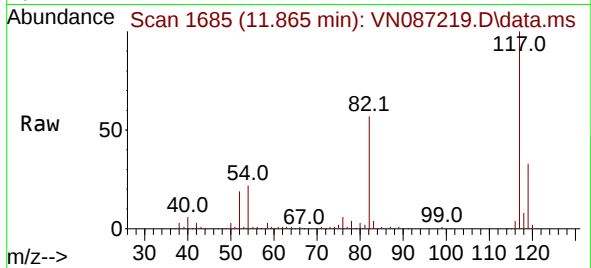




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

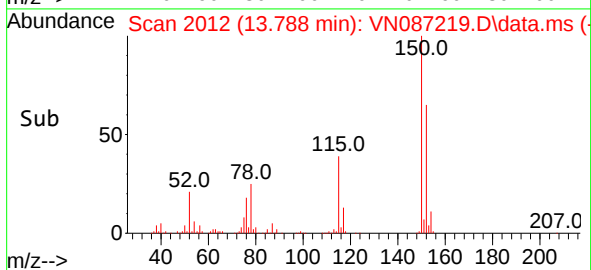
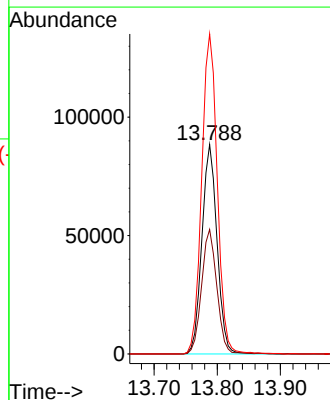
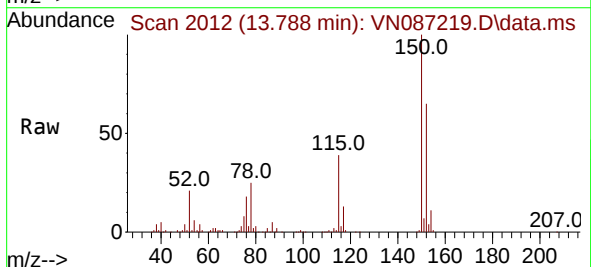
Instrument :
MSVOA_N
ClientSampleId :
72-11933

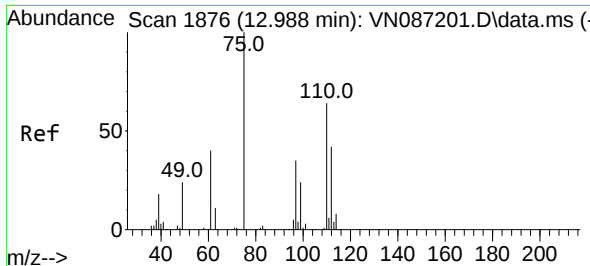
Tgt Ion:117 Resp: 321898
Ion Ratio Lower Upper
117 100
82 56.9 45.0 67.4
119 32.7 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

Tgt Ion:152 Resp: 147755
Ion Ratio Lower Upper
152 100
115 59.7 30.6 91.8
150 156.9 0.0 347.8

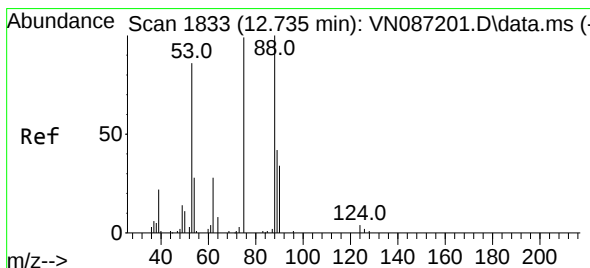
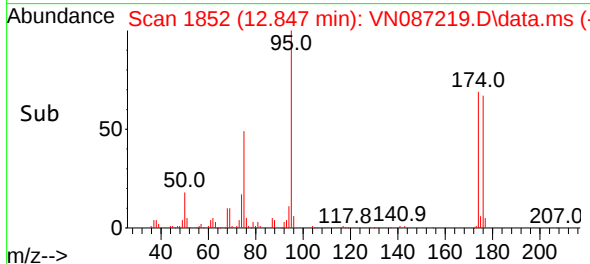
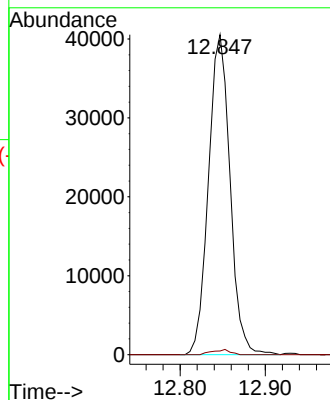
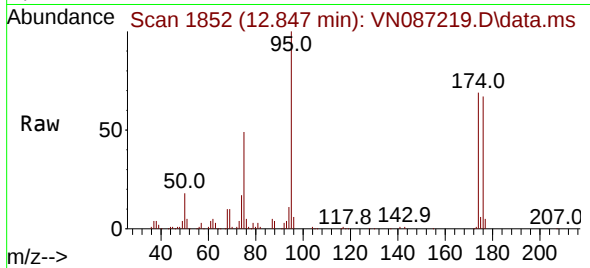




#76
1,2,3-Trichloropropane
Concen: 21.638 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

Instrument :
MSVOA_N
ClientSampleId :
72-11933

Tgt Ion: 75 Resp: 71331
Ion Ratio Lower Upper
75 100
77 1.3 85.5 256.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 48.564 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087219.D
Acq: 27 Jun 2025 14:12

Tgt Ion: 75 Resp: 71331
Ion Ratio Lower Upper
75 100
53 0.0 71.4 107.0#
89 0.0 37.9 56.9#

