

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088499.D
 Acq On : 10 Dec 2025 14:47
 Operator : JC\MD
 Sample : Q3814-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 11 02:08:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

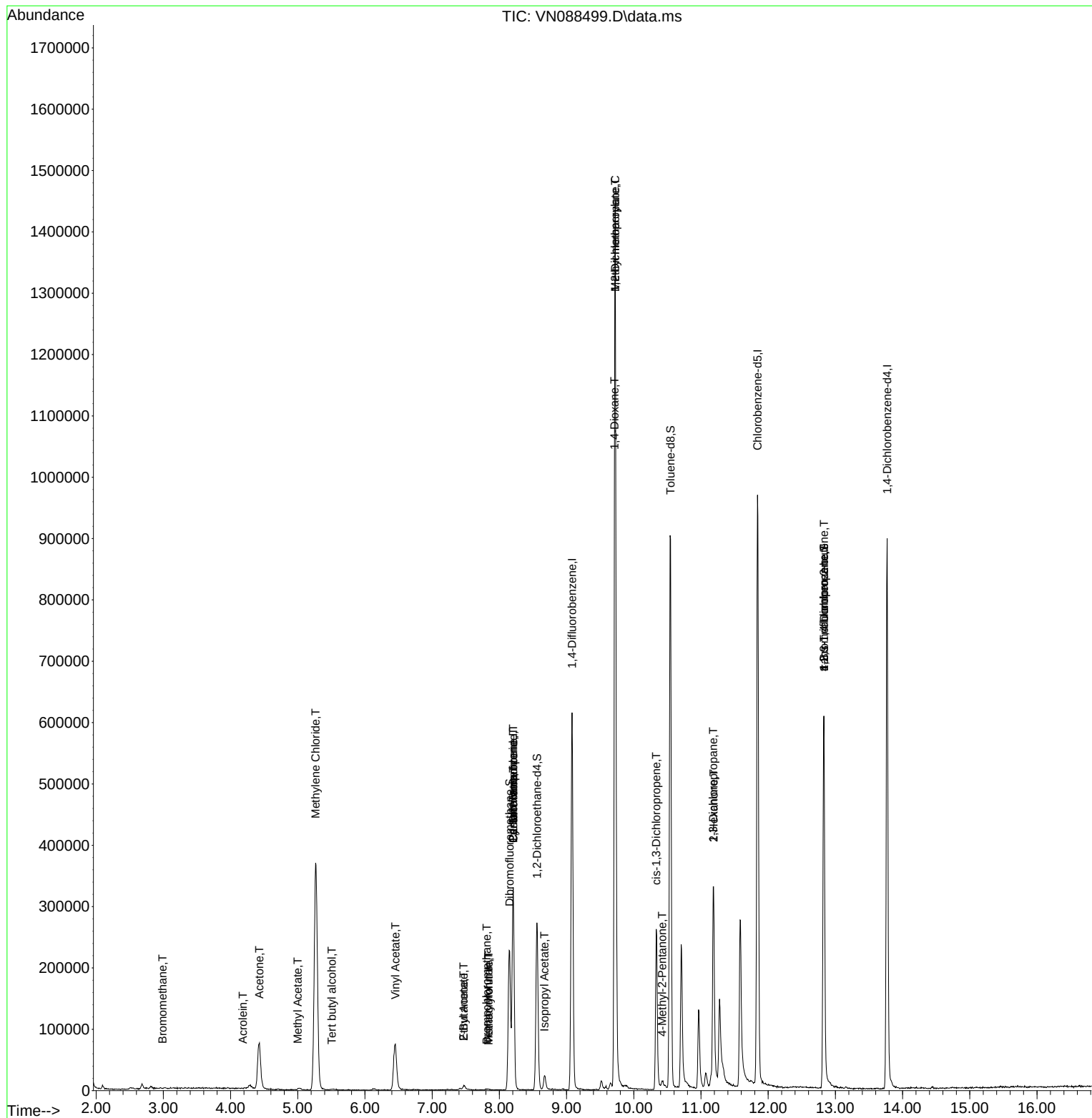
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	205661	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	485984	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	520768	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	228772	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	234602	60.554	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 121.100%		
35) Dibromofluoromethane	8.153	113	165510	49.144	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 98.280%		
50) Toluene-d8	10.547	98	599949	47.877	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 95.760%		
62) 4-Bromofluorobenzene	12.829	95	221962	51.624	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 103.240%		
Target Compounds						Qvalue
5) Bromomethane	2.989	94	451	0.278	ug/l #	53
11) Tert butyl alcohol	5.506	59	1742	2.816	ug/l #	72
13) Acrolein	4.183	56	235	0.397	ug/l #	1
16) Acetone	4.430	43	161010	114.915	ug/l	96
18) Methyl Acetate	5.000	43	6748	1.618	ug/l #	53
20) Methylene Chloride	5.265	84	283834	94.683	ug/l	94
23) Vinyl Acetate	6.453	43	2393	0.299	ug/l #	73
25) 2-Butanone	7.471	43	14022	6.225	ug/l #	86
28) Bromochloromethane	7.812	49	719	0.257	ug/l #	49
29) Tetrahydrofuran	7.835	42	626	0.387	ug/l #	52
31) Cyclohexane	8.206	56	6937	1.361	ug/l #	6
36) 1,1-Dichloropropene	8.206	75	21649	4.165	ug/l #	52
37) Ethyl Acetate	7.471	43	14022	2.052	ug/l #	72
38) Carbon Tetrachloride	8.206	117	25934	5.012	ug/l #	15
41) Methacrylonitrile	7.841	41	930	0.275	ug/l #	51
43) Isopropyl Acetate	8.671	43	29388	2.814	ug/l #	88
45) 1,2-Dichloropropane	9.723	63	1859	0.476	ug/l #	46
48) Methyl methacrylate	9.723	41	146807	30.814	ug/l #	48
49) 1,4-Dioxane	9.712	88	128	2.113	ug/l #	1
51) 4-Methyl-2-Pentanone	10.423	43	14791	2.403	ug/l #	82
54) cis-1,3-Dichloropropene	10.335	75	43830	7.134	ug/l #	67
57) 1,3-Dichloropropane	11.182	76	3749	0.610	ug/l #	42
59) 2-Hexanone	11.188	43	68680	17.713	ug/l #	53
76) 1,2,3-Trichloropropane	12.829	75	133159	24.851	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	133159	70.501	ug/l #	1

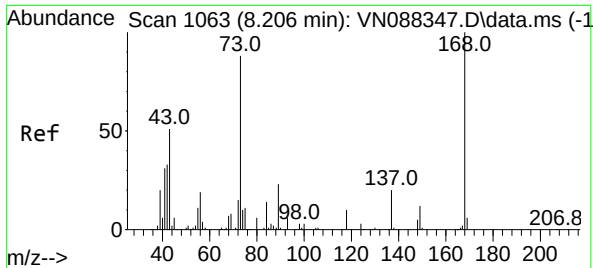
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
Data File : VN088499.D
Acq On : 10 Dec 2025 14:47
Operator : JC\MD
Sample : Q3814-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Dec 11 02:08:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

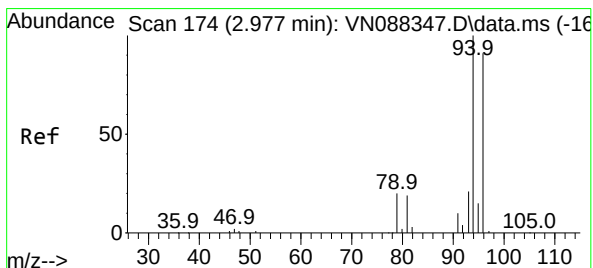
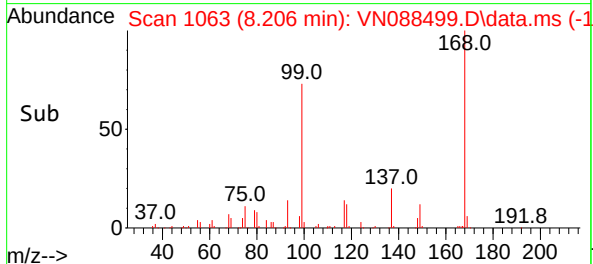
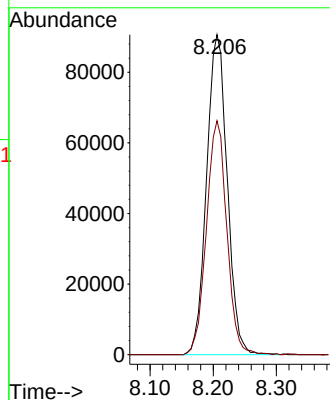
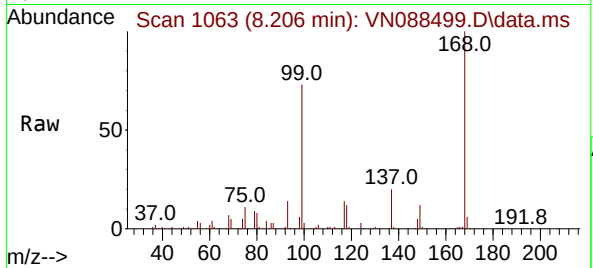




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088499.D
Acq: 10 Dec 2025 14:47

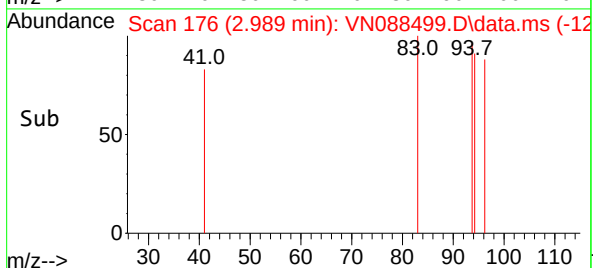
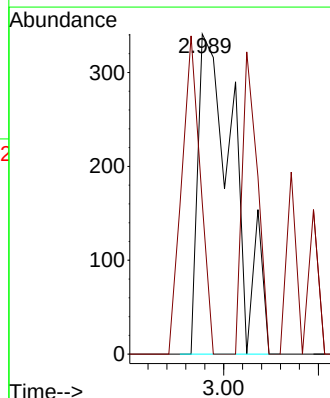
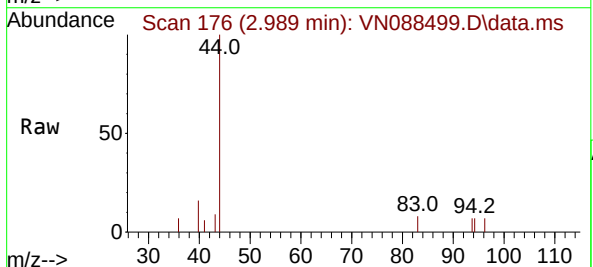
Instrument :
MSVOA_N
ClientSampleId :

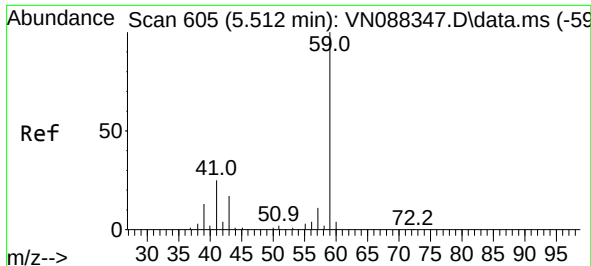
Tgt Ion:168 Resp: 205661
Ion Ratio Lower Upper
168 100
99 73.1 57.1 85.7



#5
Bromomethane
Concen: 0.278 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.012 min
Lab File: VN088499.D
Acq: 10 Dec 2025 14:47

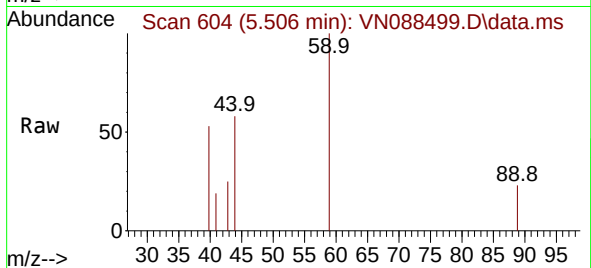
Tgt Ion: 94 Resp: 451
Ion Ratio Lower Upper
94 100
96 47.2 73.2 109.8#



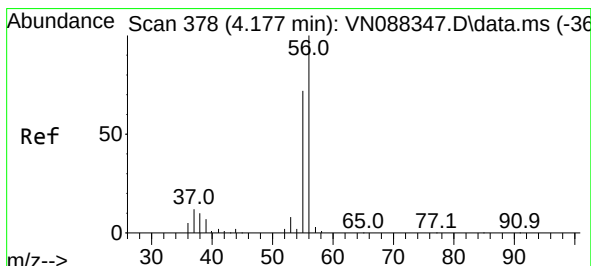
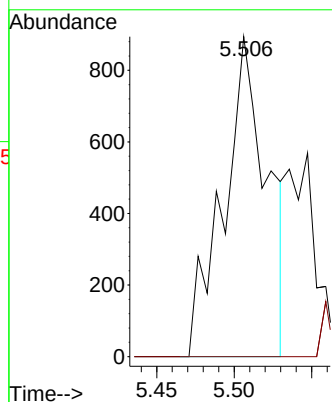
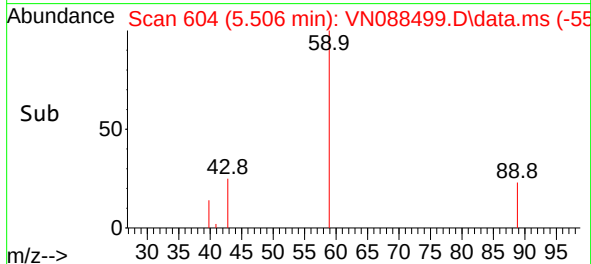


#11
Tert butyl alcohol
Concen: 2.816 ug/l
RT: 5.506 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN088499.D
Acq: 10 Dec 2025 14:47

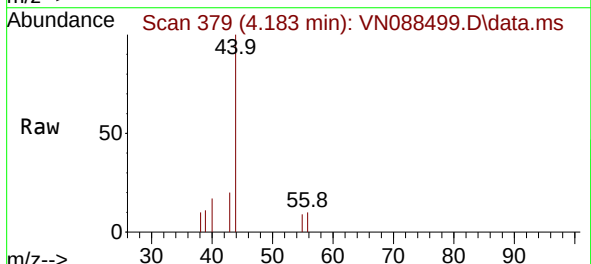
Instrument :
MSVOA_N
ClientSampleId :



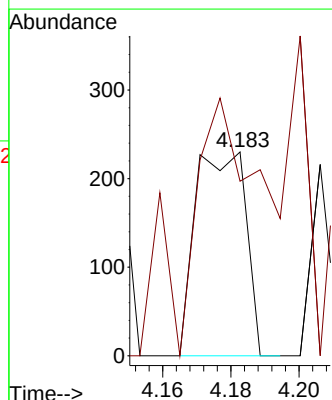
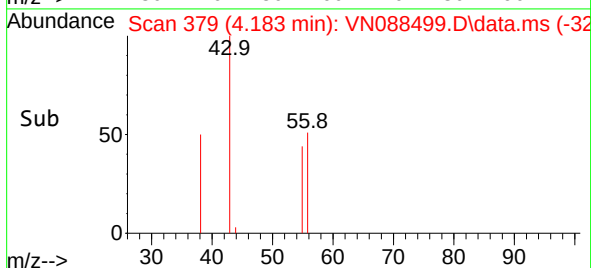
Tgt Ion: 59 Resp: 1742
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

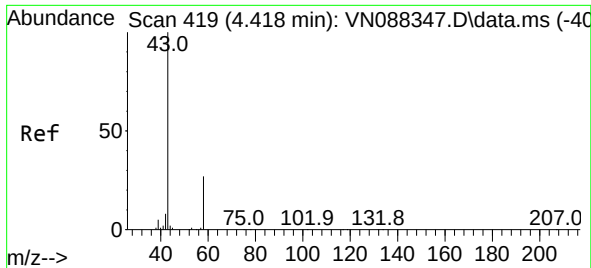


#13
Acrolein
Concen: 0.397 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN088499.D
Acq: 10 Dec 2025 14:47



Tgt Ion: 56 Resp: 235
Ion Ratio Lower Upper
56 100
55 188.9 56.3 84.5#

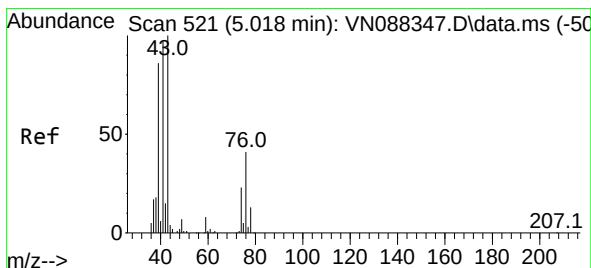
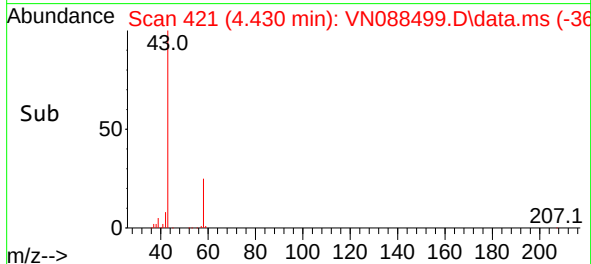
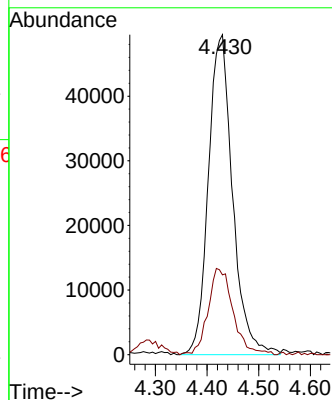
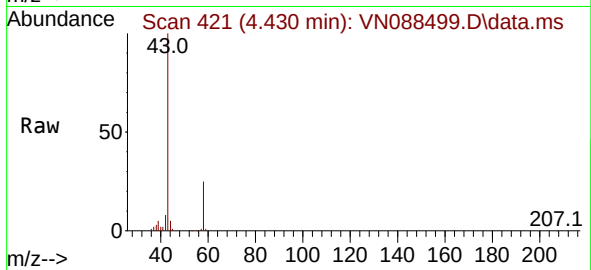




#16
Acetone
Concen: 114.915 ug/l
RT: 4.430 min Scan# 419
Delta R.T. 0.012 min
Lab File: VN088499.D
Acq: 10 Dec 2025 14:47

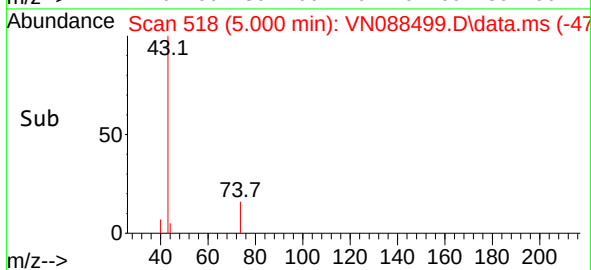
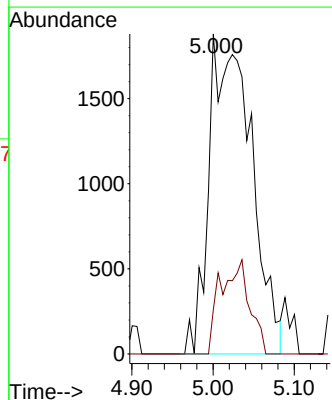
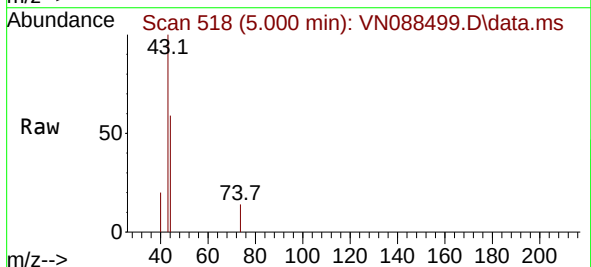
Instrument :
MSVOA_N
ClientSampleId :

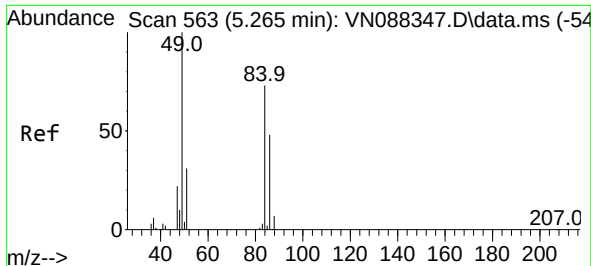
Tgt Ion: 43 Resp: 161010
Ion Ratio Lower Upper
43 100
58 25.0 21.7 32.5



#18
Methyl Acetate
Concen: 1.618 ug/l
RT: 5.000 min Scan# 518
Delta R.T. -0.018 min
Lab File: VN088499.D
Acq: 10 Dec 2025 14:47

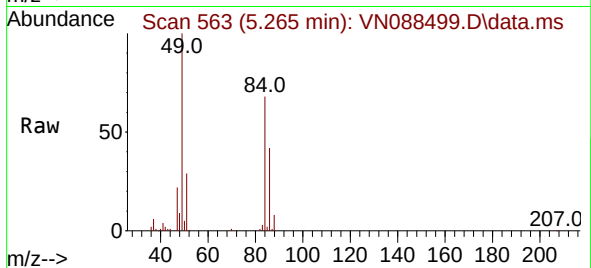
Tgt Ion: 43 Resp: 6748
Ion Ratio Lower Upper
43 100
74 0.0 17.9 26.9#



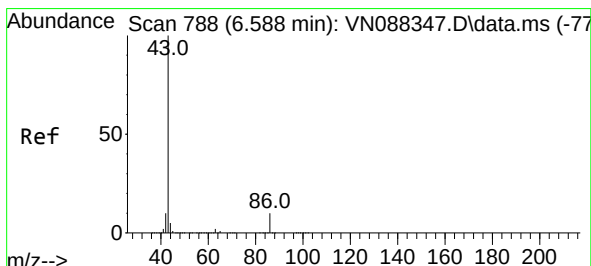
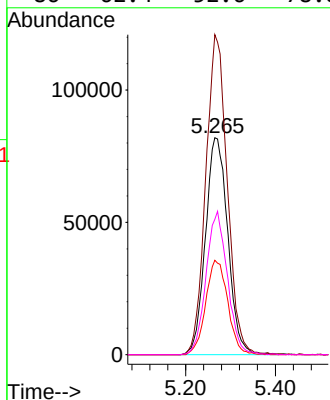
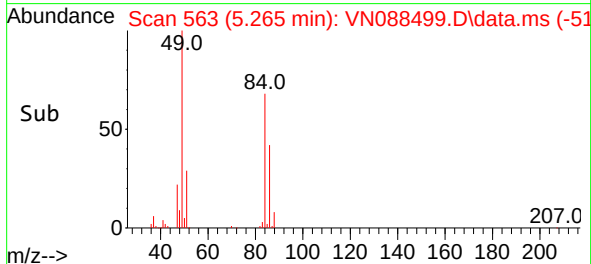


#20
Methylene Chloride
Concen: 94.683 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN088499.D
Acq: 10 Dec 2025 14:47

Instrument :
MSVOA_N
ClientSampleId :

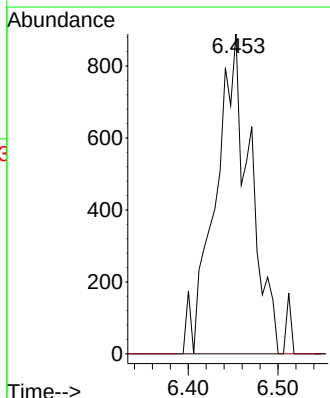
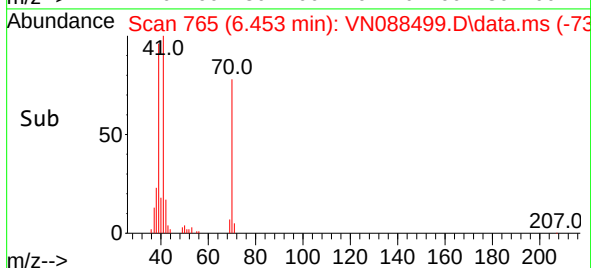
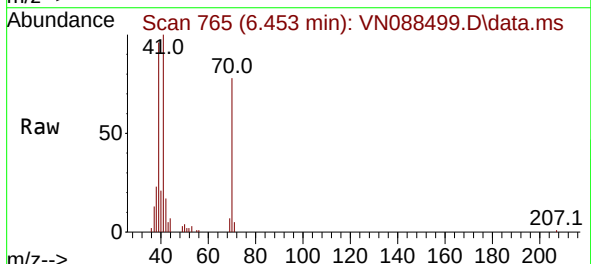


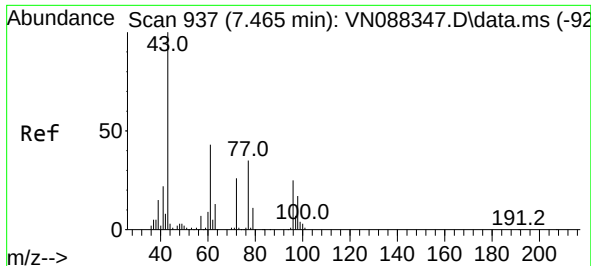
Tgt Ion: 84 Resp: 283834
Ion Ratio Lower Upper
84 100
49 147.5 110.2 165.2
51 43.5 34.1 51.1
86 62.4 52.6 78.8



#23
Vinyl Acetate
Concen: 0.299 ug/l
RT: 6.453 min Scan# 765
Delta R.T. -0.135 min
Lab File: VN088499.D
Acq: 10 Dec 2025 14:47

Tgt Ion: 43 Resp: 2393
Ion Ratio Lower Upper
43 100
86 0.0 7.8 11.8#

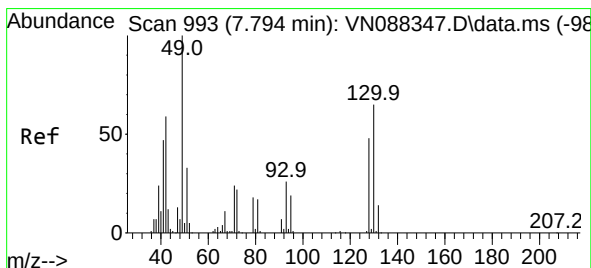
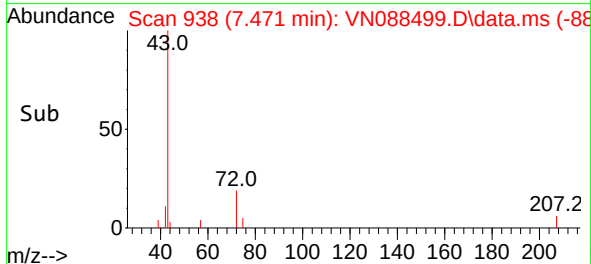
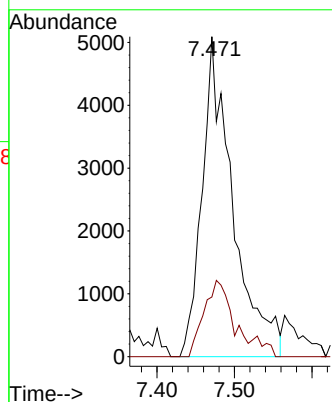
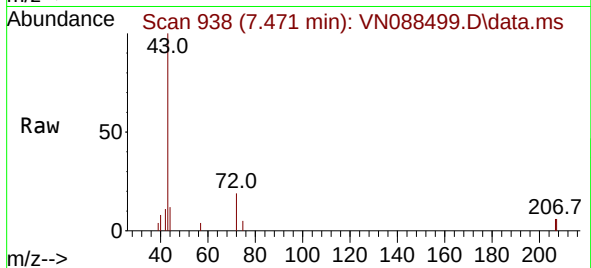




#25
2-Butanone
Concen: 6.225 ug/l
RT: 7.471 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN088499.D
Acq: 10 Dec 2025 14:47

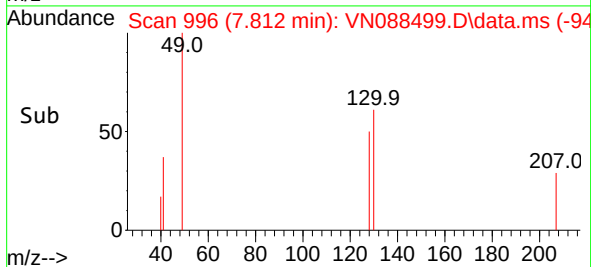
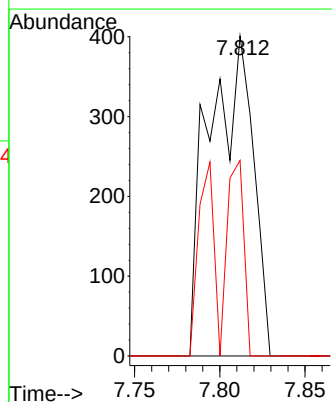
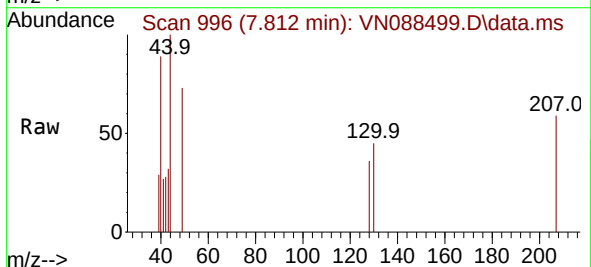
Instrument :
MSVOA_N
ClientSampleId :

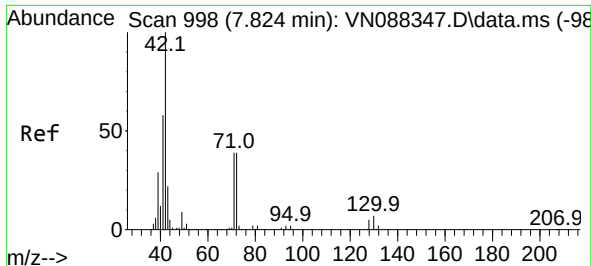
Tgt Ion: 43 Resp: 14022
Ion Ratio Lower Upper
43 100
72 18.7 20.5 30.7#



#28
Bromochloromethane
Concen: 0.257 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.018 min
Lab File: VN088499.D
Acq: 10 Dec 2025 14:47

Tgt Ion: 49 Resp: 719
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 22.9 51.1 76.7#





#29

Tetrahydrofuran

Concen: 0.387 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. 0.012 min

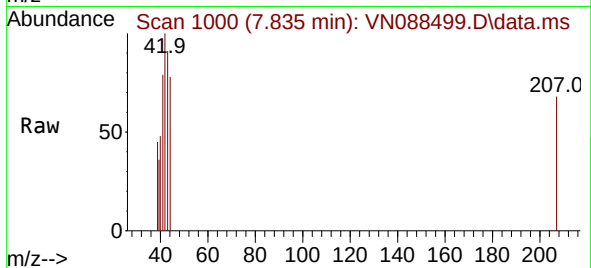
Lab File: VN088499.D

Acq: 10 Dec 2025 14:47

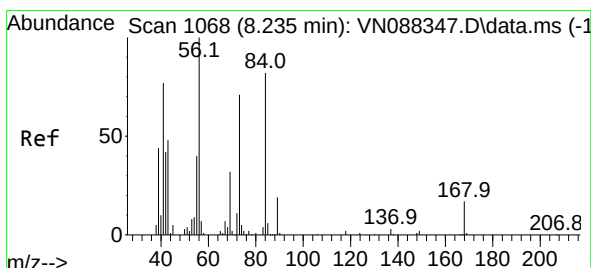
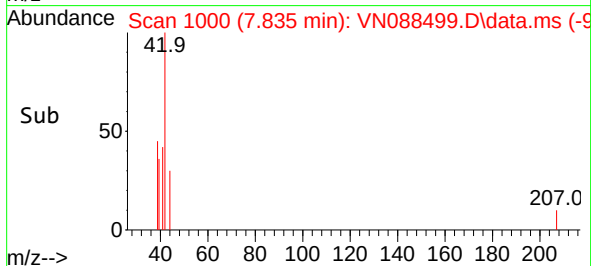
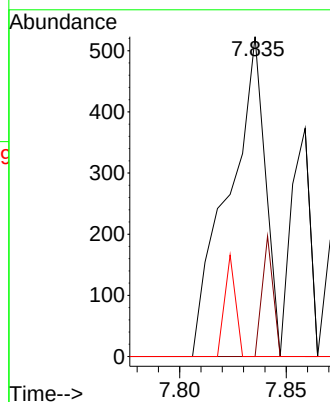
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 42	Resp: 626
Ion Ratio	Lower Upper
42 100	
72 11.2	32.2 48.4#
71 9.4	31.1 46.7#



#31

Cyclohexane

Concen: 1.361 ug/l

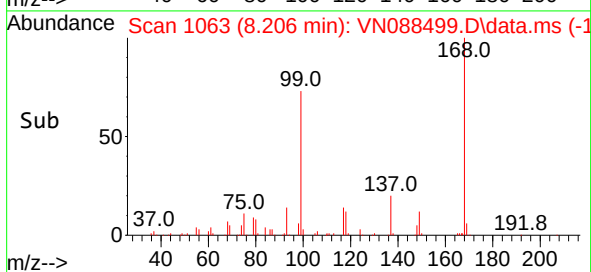
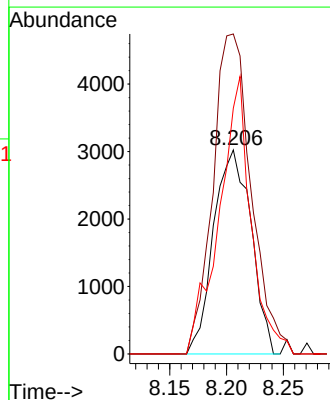
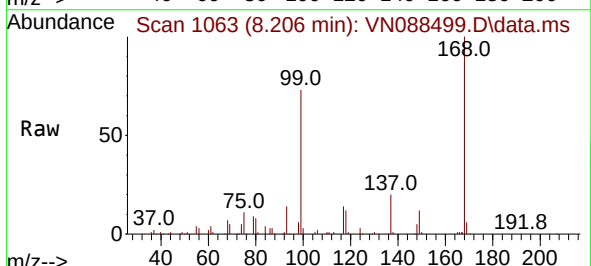
RT: 8.206 min Scan# 1063

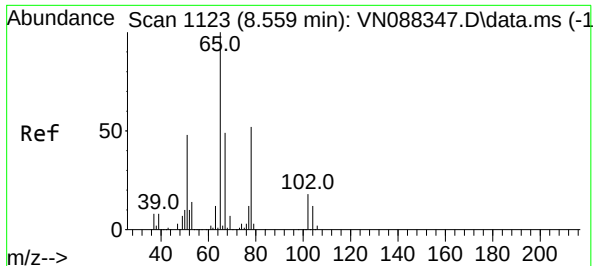
Delta R.T. -0.029 min

Lab File: VN088499.D

Acq: 10 Dec 2025 14:47

Tgt Ion: 56	Resp: 6937		
Ion Ratio	Lower	Upper	
56	100		
69	156.8	25.3	37.9#
84	120.4	65.4	98.2#





#33

1,2-Dichloroethane-d4

Concen: 60.554 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088499.D

Acq: 10 Dec 2025 14:47

Instrument :

MSVOA_N

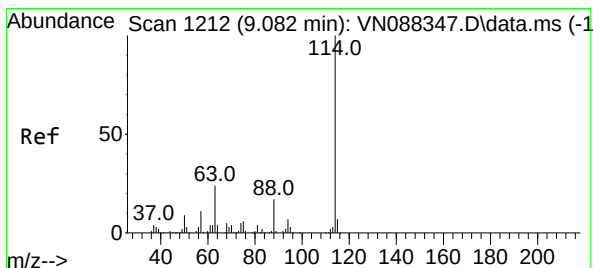
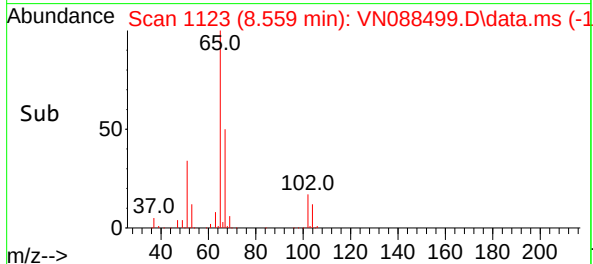
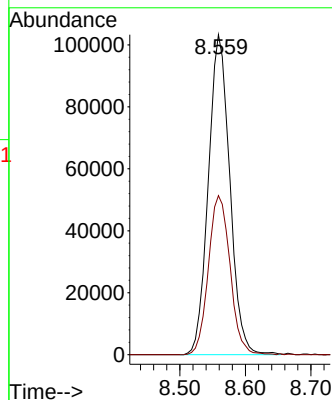
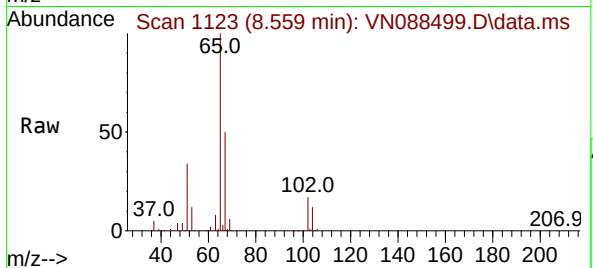
ClientSampleId :

Tgt Ion: 65 Resp: 234602

Ion Ratio Lower Upper

65 100

67 50.2 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088499.D

Acq: 10 Dec 2025 14:47

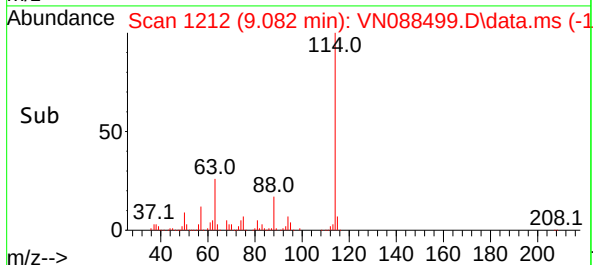
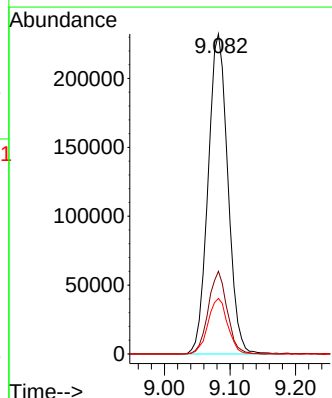
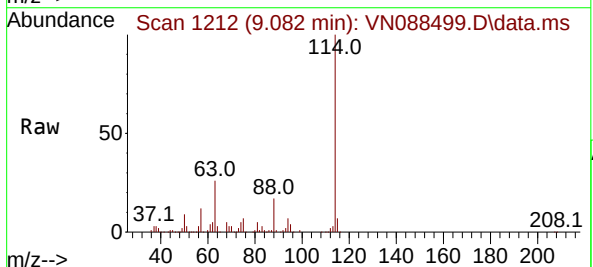
Tgt Ion: 114 Resp: 485984

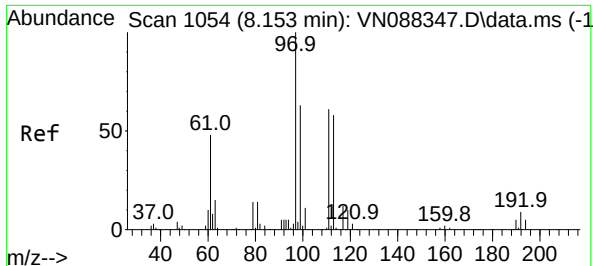
Ion Ratio Lower Upper

114 100

63 25.8 0.0 49.0

88 17.4 0.0 34.0





#35

Dibromofluoromethane

Concen: 49.144 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN088499.D

Acq: 10 Dec 2025 14:47

Instrument :

MSVOA_N

ClientSampleId :

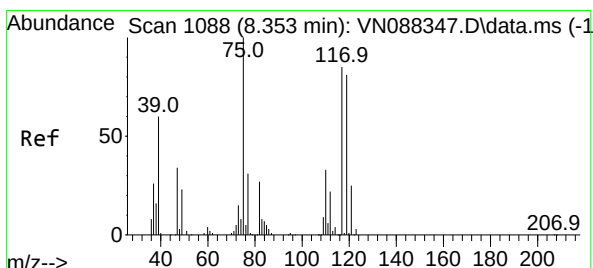
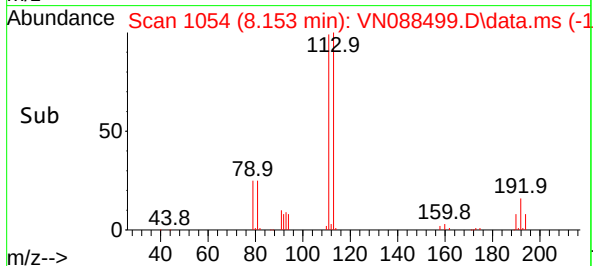
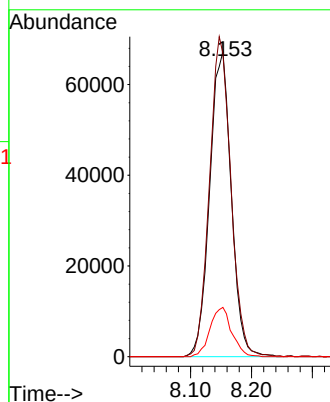
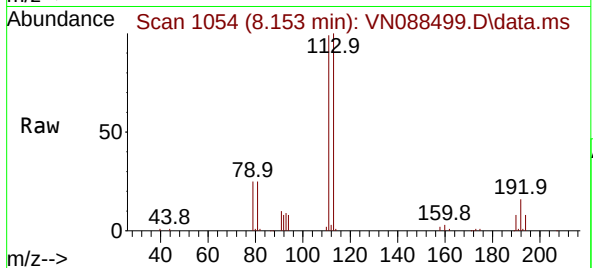
Tgt Ion:113 Resp: 165510

Ion Ratio Lower Upper

113 100

111 103.8 82.5 123.7

192 16.2 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.165 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088499.D

Acq: 10 Dec 2025 14:47

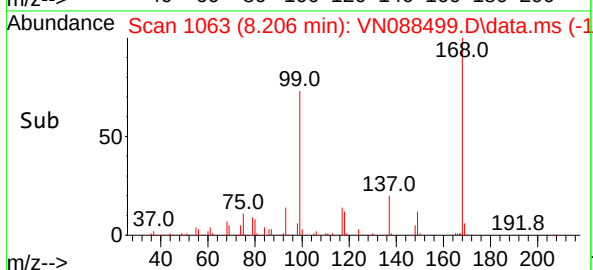
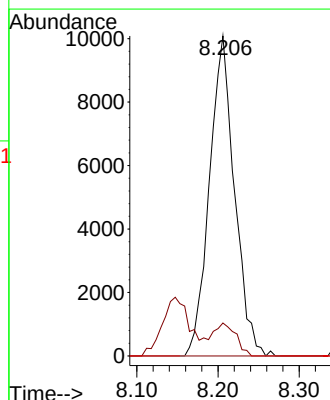
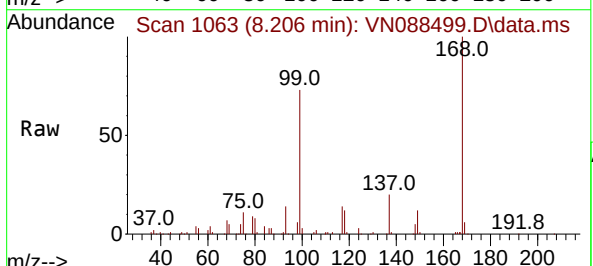
Tgt Ion: 75 Resp: 21649

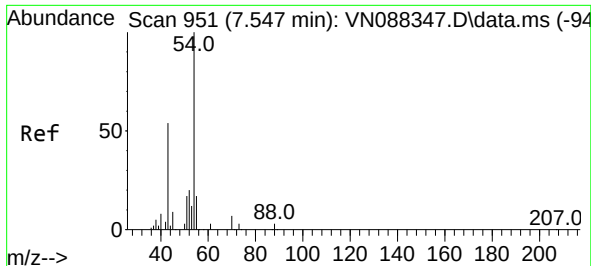
Ion Ratio Lower Upper

75 100

110 8.9 15.8 47.4#

77 0.0 24.2 36.2#





#37

Ethyl Acetate

Concen: 2.052 ug/l

RT: 7.471 min Scan# 91

Delta R.T. -0.076 min

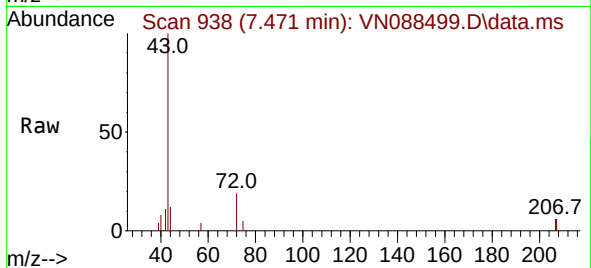
Lab File: VN088499.D

Acq: 10 Dec 2025 14:47

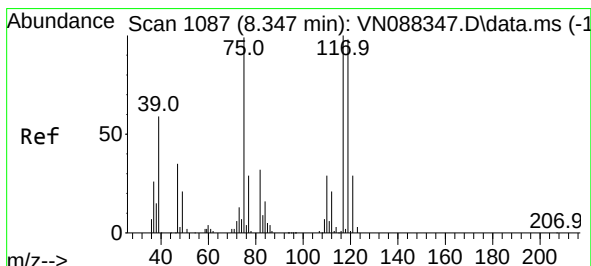
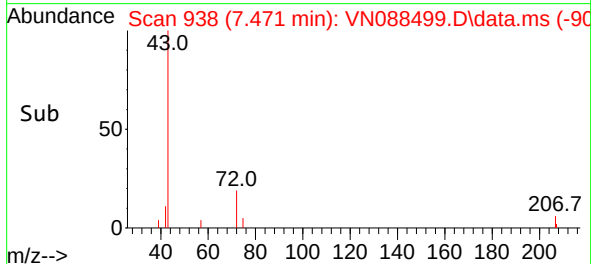
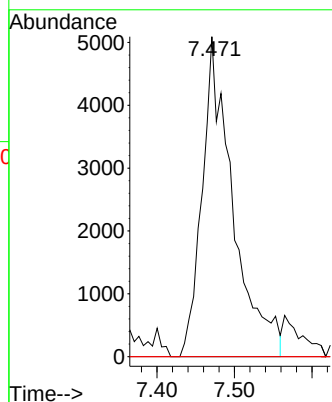
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	14022
Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.5	14.3#
70	0.0	7.1	10.7#



#38

Carbon Tetrachloride

Concen: 5.012 ug/l

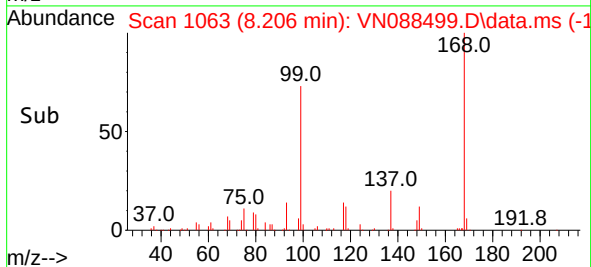
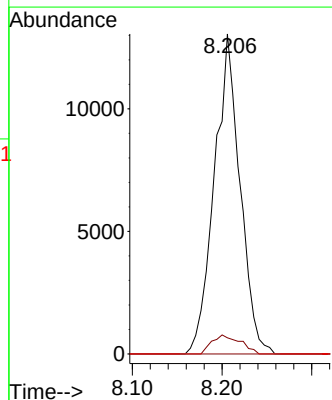
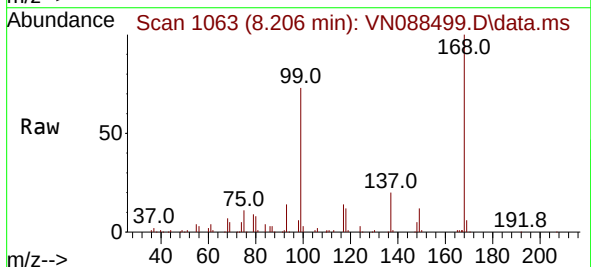
RT: 8.206 min Scan# 1063

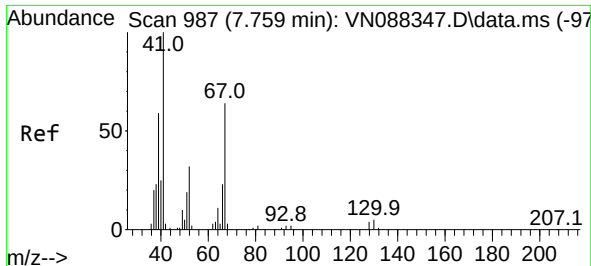
Delta R.T. -0.141 min

Lab File: VN088499.D

Acq: 10 Dec 2025 14:47

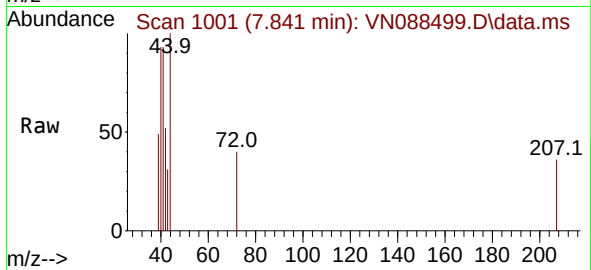
Tgt Ion:	117	Resp:	25934
Ion	Ratio	Lower	Upper
117	100		
119	5.1	78.2	117.4#
121	0.0	23.4	35.2#



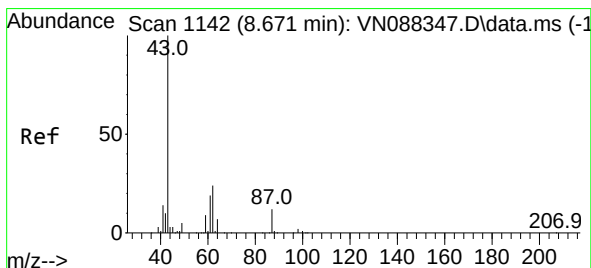
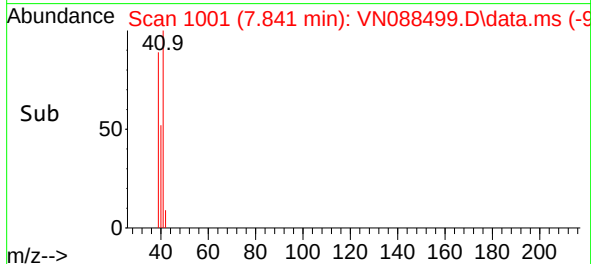
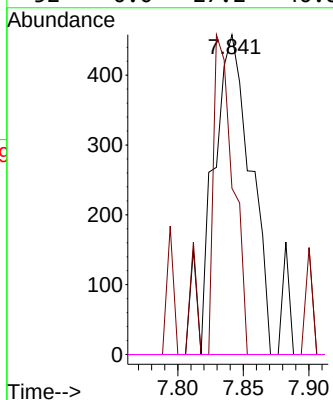


#41
Methacrylonitrile
Concen: 0.275 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.082 min
Lab File: VN088499.D
Acq: 10 Dec 2025 14:47

Instrument :
MSVOA_N
ClientSampleId :

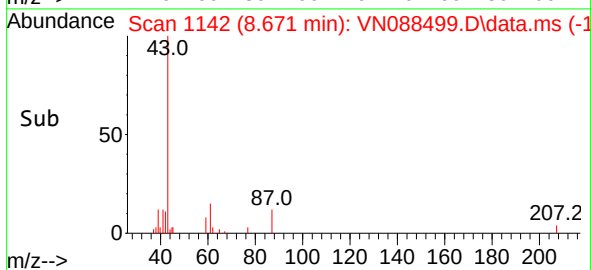
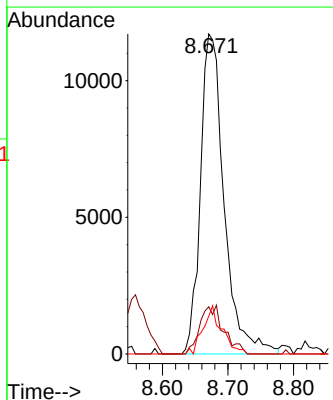
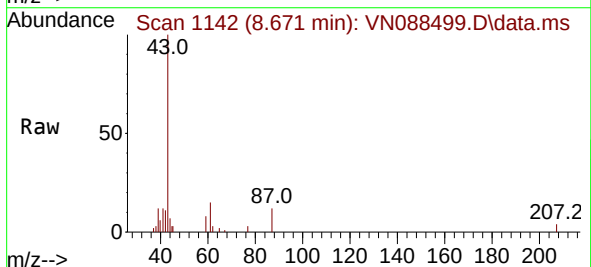


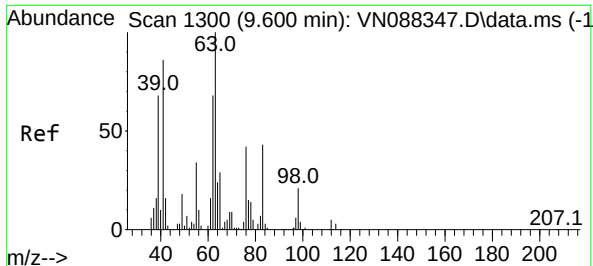
Tgt Ion:	41	Resp:	930
Ion	Ratio	Lower	Upper
41	100		
39	56.8	46.3	69.5
67	0.0	54.7	82.1#
52	0.0	27.2	40.8#



#43
Isopropyl Acetate
Concen: 2.814 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN088499.D
Acq: 10 Dec 2025 14:47

Tgt Ion:	43	Resp:	29388
Ion	Ratio	Lower	Upper
43	100		
61	15.3	18.7	28.1#
87	12.1	9.1	13.7





#45

1,2-Dichloropropane

Concen: 0.476 ug/l

RT: 9.723 min Scan# 1321

Delta R.T. 0.124 min

Lab File: VN088499.D

Acq: 10 Dec 2025 14:47

Instrument :

MSVOA_N

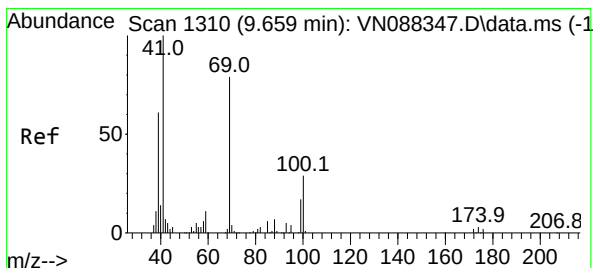
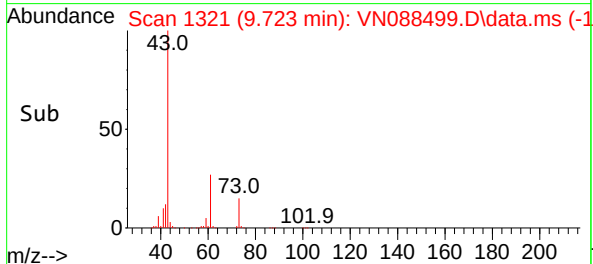
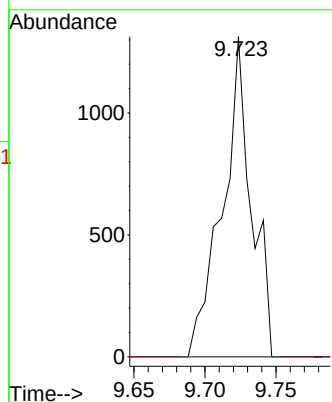
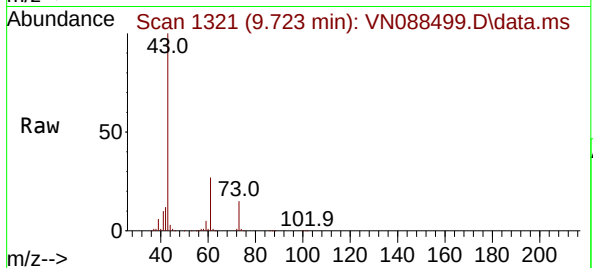
ClientSampleId :

Tgt Ion: 63 Resp: 1859

Ion Ratio Lower Upper

63 100

65 0.0 23.0 34.4#



#48

Methyl methacrylate

Concen: 30.814 ug/l

RT: 9.723 min Scan# 1321

Delta R.T. 0.065 min

Lab File: VN088499.D

Acq: 10 Dec 2025 14:47

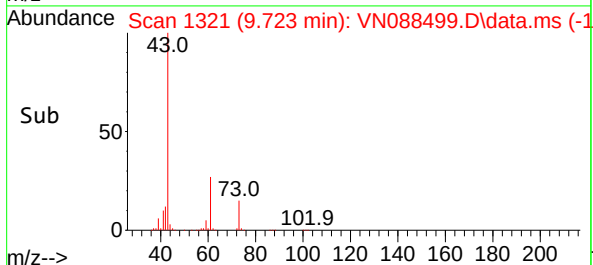
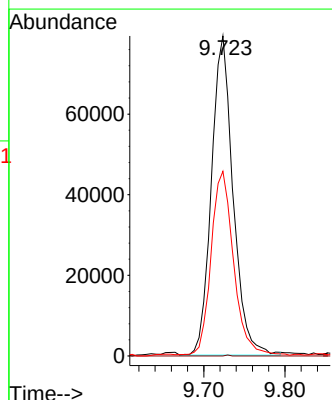
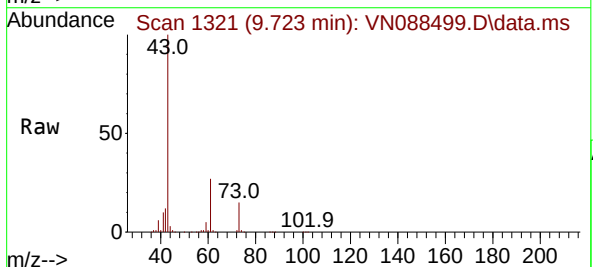
Tgt Ion: 41 Resp: 146807

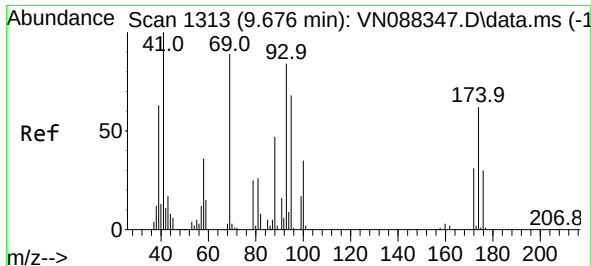
Ion Ratio Lower Upper

41 100

69 0.1 62.4 93.6#

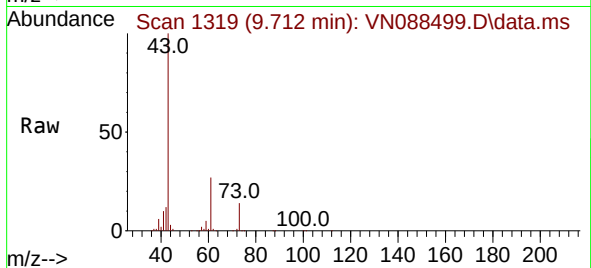
39 59.6 52.6 79.0



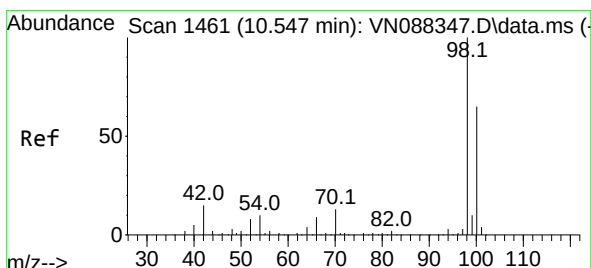
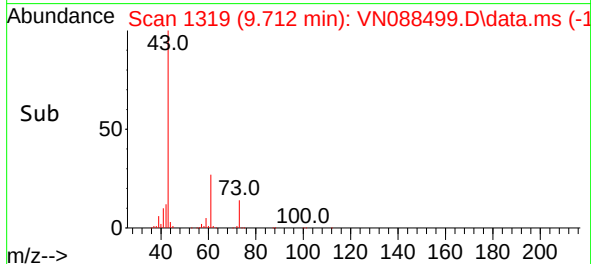
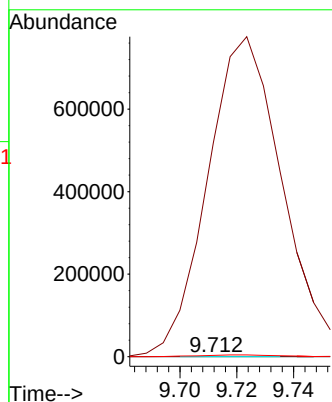


#49
1,4-Dioxane
Concen: 2.113 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.035 min
Lab File: VN088499.D
Acq: 10 Dec 2025 14:47

Instrument :
MSVOA_N
ClientSampleId :

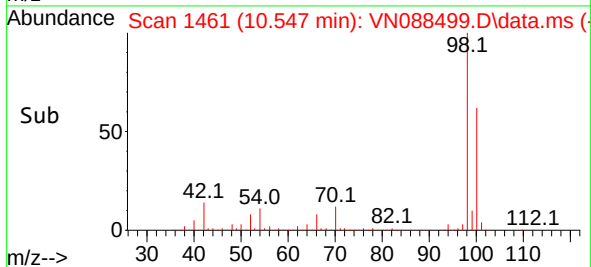
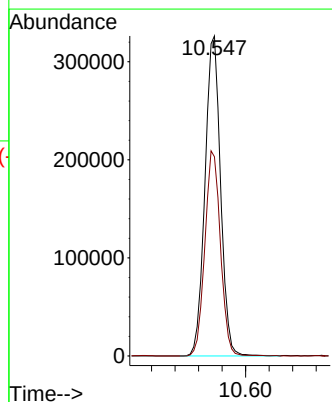
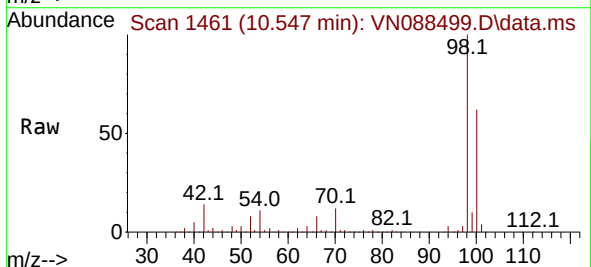


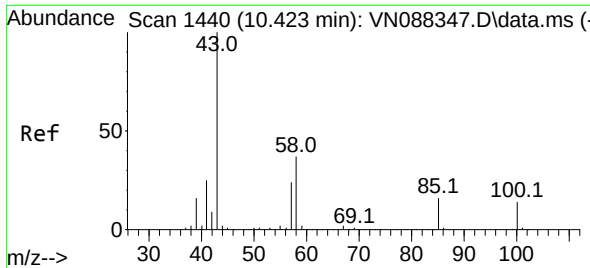
Tgt Ion: 88 Resp: 128
Ion Ratio Lower Upper
88 100
43 1142339.8 0.0 0.0#
58 6986.7 62.0 93.0#



#50
Toluene-d8
Concen: 47.877 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088499.D
Acq: 10 Dec 2025 14:47

Tgt Ion: 98 Resp: 599949
Ion Ratio Lower Upper
98 100
100 64.0 52.2 78.2

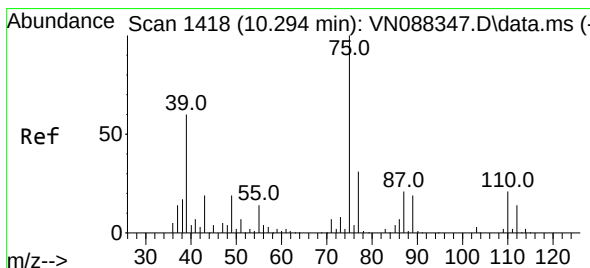
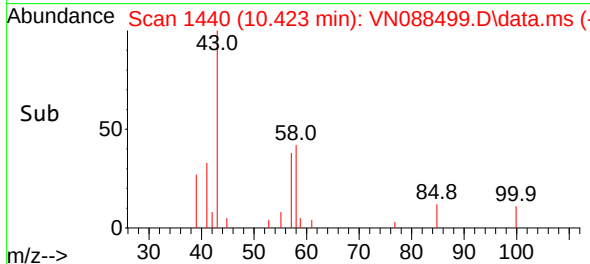
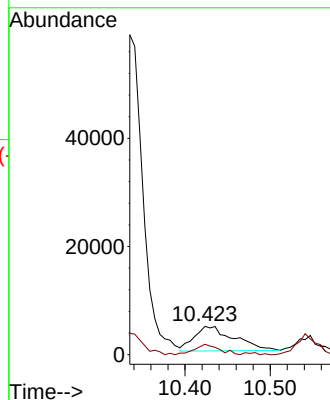
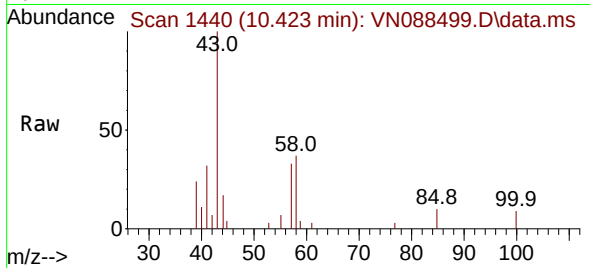




#51
4-Methyl-2-Pentanone
Concen: 2.403 ug/l
RT: 10.423 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN088499.D
Acq: 10 Dec 2025 14:47

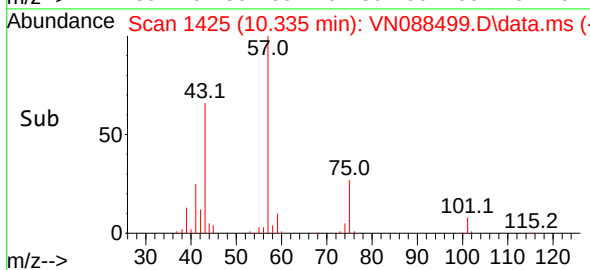
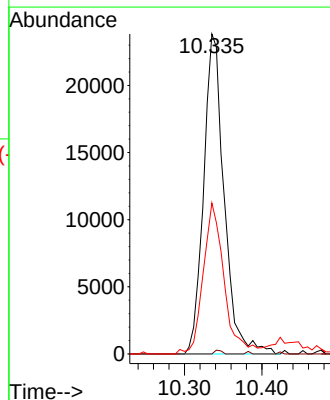
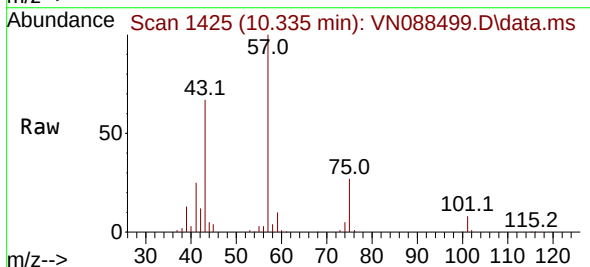
Instrument :
MSVOA_N
ClientSampleId :

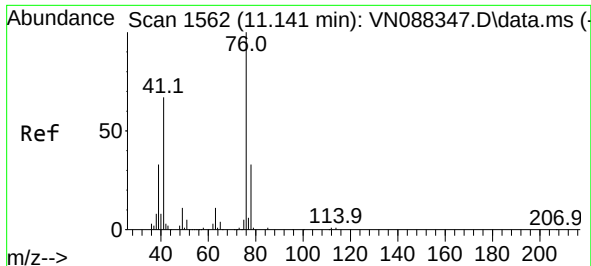
Tgt Ion: 43 Resp: 14791
Ion Ratio Lower Upper
43 100
58 25.9 29.1 43.7#



#54
cis-1,3-Dichloropropene
Concen: 7.134 ug/l
RT: 10.335 min Scan# 1425
Delta R.T. 0.041 min
Lab File: VN088499.D
Acq: 10 Dec 2025 14:47

Tgt Ion: 75 Resp: 43830
Ion Ratio Lower Upper
75 100
77 0.0 24.5 36.7#
39 44.7 48.3 72.5#





#57

1,3-Dichloropropane

Concen: 0.610 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.041 min

Lab File: VN088499.D

Acq: 10 Dec 2025 14:47

Instrument :

MSVOA_N

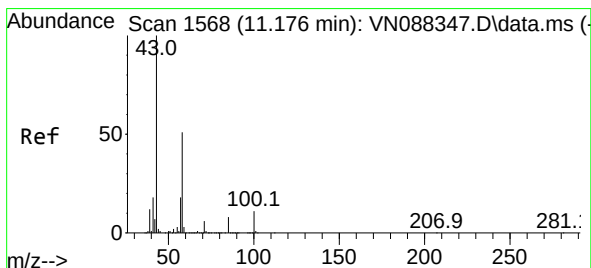
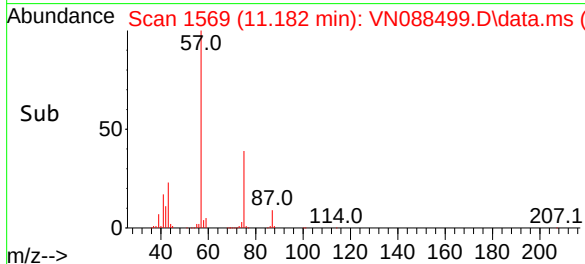
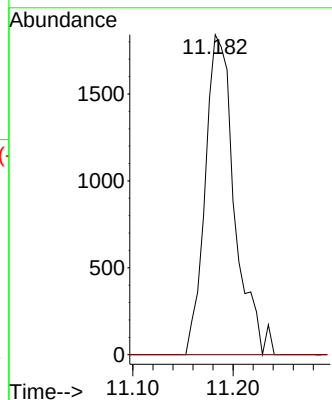
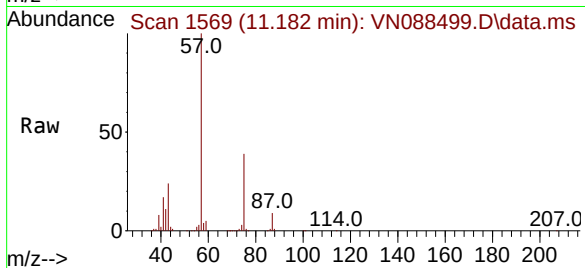
ClientSampleId :

Tgt Ion: 76 Resp: 3749

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 17.713 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.012 min

Lab File: VN088499.D

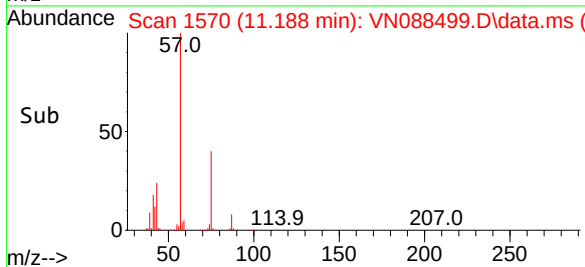
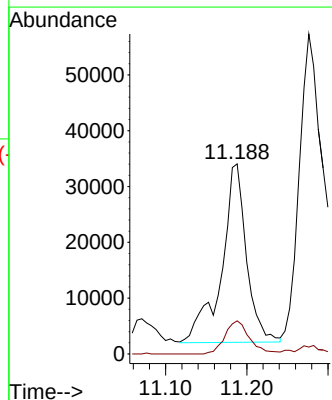
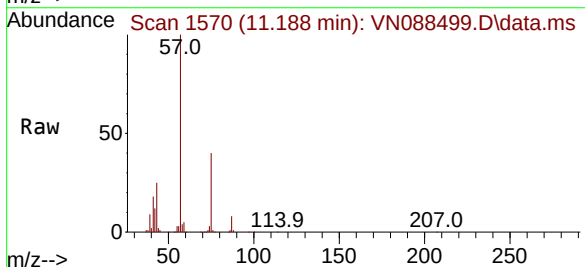
Acq: 10 Dec 2025 14:47

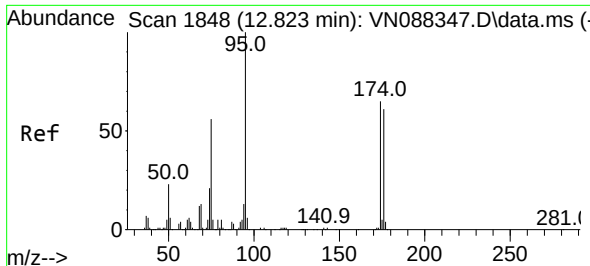
Tgt Ion: 43 Resp: 68680

Ion Ratio Lower Upper

43 100

58 18.3 25.3 75.9#

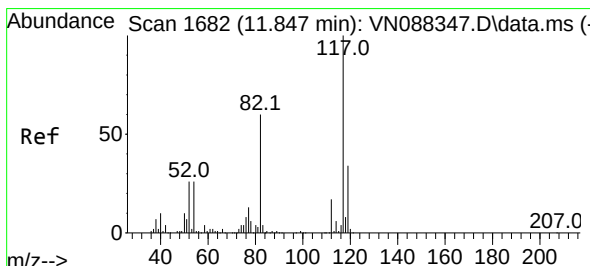
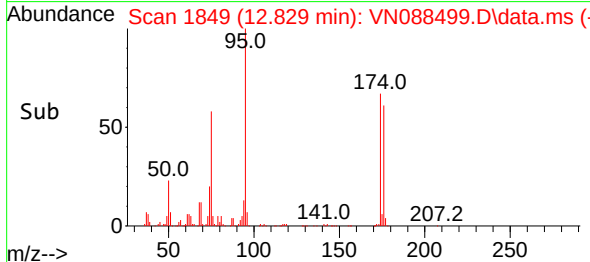
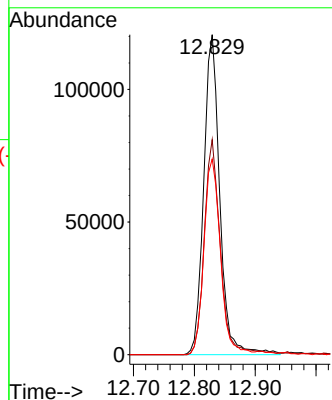
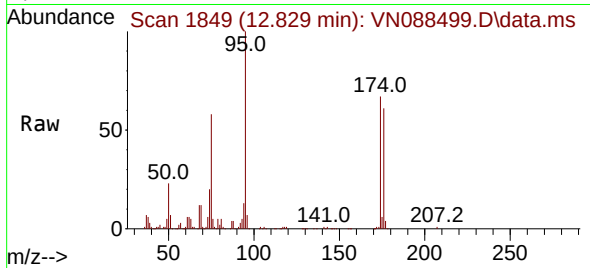




#62
4-Bromofluorobenzene
Concen: 51.624 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088499.D
Acq: 10 Dec 2025 14:47

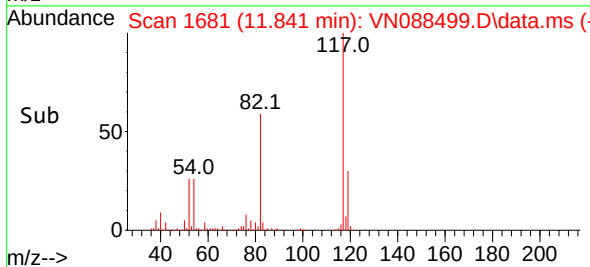
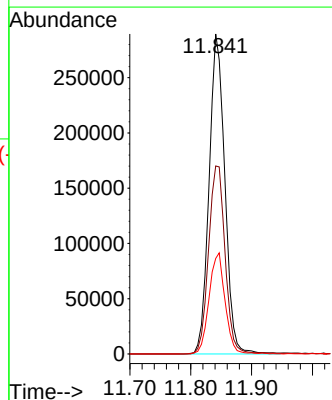
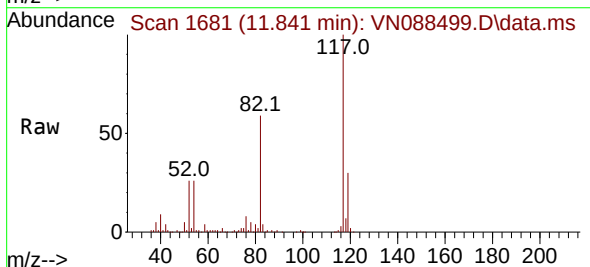
Instrument :
MSVOA_N
ClientSampleId :

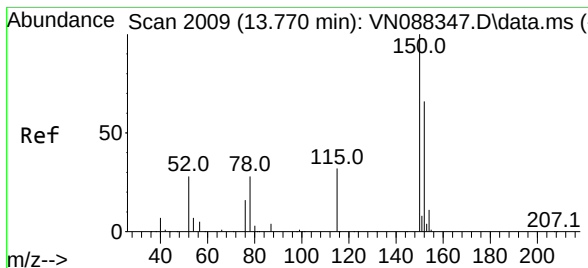
Tgt Ion: 95 Resp: 221962
Ion Ratio Lower Upper
95 100
174 67.1 0.0 139.0
176 62.9 0.0 132.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088499.D
Acq: 10 Dec 2025 14:47

Tgt Ion: 117 Resp: 520768
Ion Ratio Lower Upper
117 100
82 58.7 47.8 71.8
119 29.9 26.9 40.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. -0.000 min

Lab File: VN088499.D

Acq: 10 Dec 2025 14:47

Instrument :

MSVOA_N

ClientSampleId :

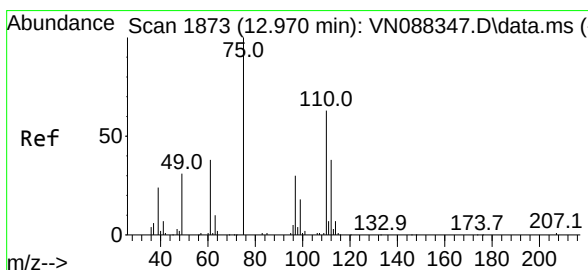
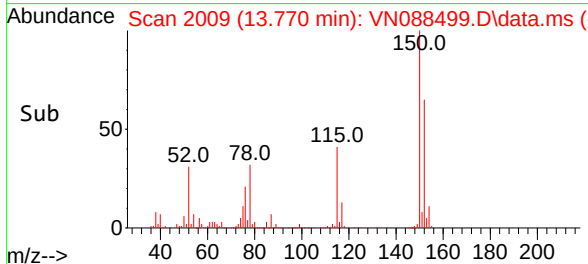
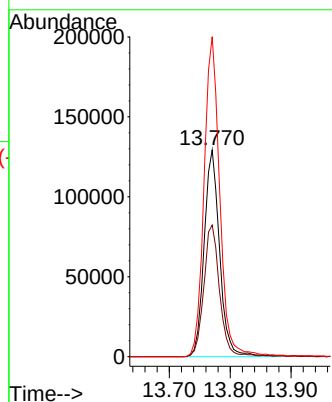
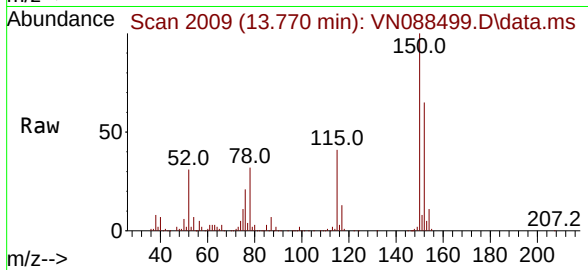
Tgt Ion:152 Resp: 228772

Ion Ratio Lower Upper

152 100

115 64.6 33.0 98.9

150 157.4 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 24.851 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN088499.D

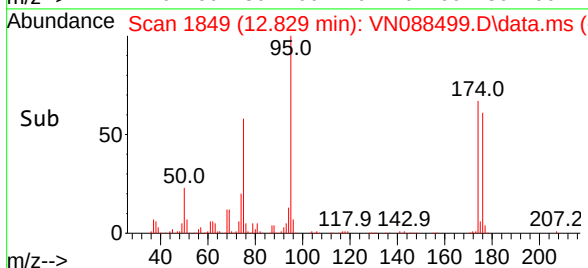
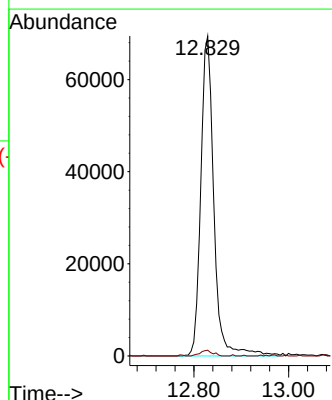
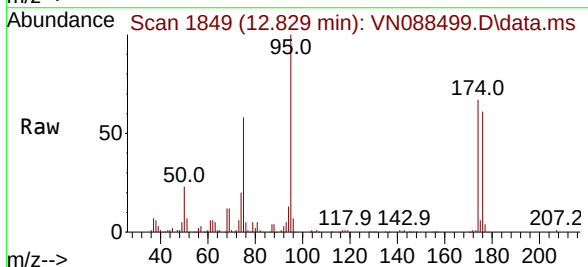
Acq: 10 Dec 2025 14:47

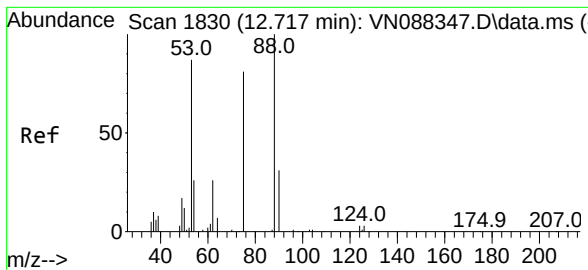
Tgt Ion: 75 Resp: 133159

Ion Ratio Lower Upper

75 100

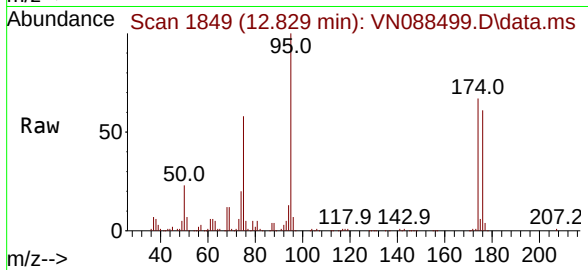
77 1.7 87.2 261.6#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.501 ug/l
 RT: 12.829 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN088499.D
 Acq: 10 Dec 2025 14:47

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 133159
 Ion Ratio Lower Upper
 75 100
 53 0.2 92.2 138.4#
 89 0.6 0.0 0.0#

