

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088513.D
 Acq On : 10 Dec 2025 19:38
 Operator : JC\MD
 Sample : Q3826-14
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 11 02:15:41 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)

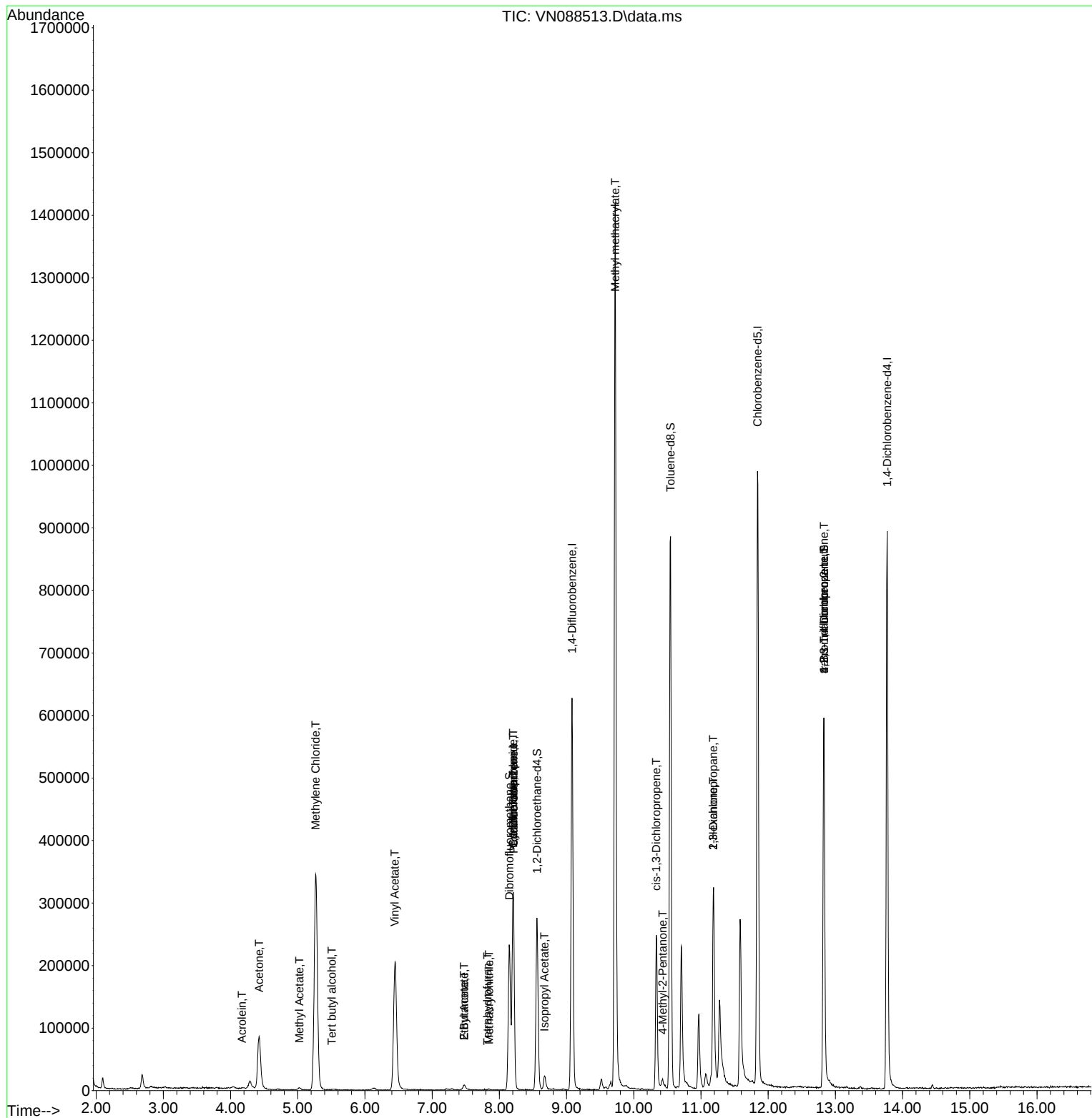
Internal Standards						
1) Pentafluorobenzene	8.212	168	209105	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	483731	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	523529	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	228541	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	230593	58.539	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 117.080%			
35) Dibromofluoromethane	8.147	113	165913	49.493	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.980%			
50) Toluene-d8	10.547	98	583238	46.760	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.520%			
62) 4-Bromofluorobenzene	12.829	95	216603	50.612	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.220%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.506	59	1579	2.511	ug/l #	72
13) Acrolein	4.171	56	980	1.628	ug/l	100
16) Acetone	4.424	43	178501	125.300	ug/l	99
18) Methyl Acetate	5.024	43	7121	1.679	ug/l	93
20) Methylene Chloride	5.265	84	262355	86.076	ug/l	96
23) Vinyl Acetate	6.441	43	4720	0.580	ug/l #	73
25) 2-Butanone	7.477	43	17154	7.490	ug/l #	81
29) Tetrahydrofuran	7.824	42	523	0.318	ug/l #	36
31) Cyclohexane	8.206	56	6972	1.346	ug/l #	27
36) 1,1-Dichloropropene	8.206	75	22120	4.276	ug/l #	48
37) Ethyl Acetate	7.477	43	17154	2.522	ug/l #	72
38) Carbon Tetrachloride	8.206	117	26419	5.130	ug/l #	17
41) Methacrylonitrile	7.847	41	774	0.230	ug/l #	33
43) Isopropyl Acetate	8.671	43	28409	2.733	ug/l #	91
48) Methyl methacrylate	9.723	41	140821	29.695	ug/l #	48
51) 4-Methyl-2-Pentanone	10.429	43	18227	2.975	ug/l #	76
54) cis-1,3-Dichloropropene	10.335	75	41774	6.831	ug/l #	68
57) 1,3-Dichloropropane	11.182	76	3614	0.591	ug/l #	42
59) 2-Hexanone	11.182	43	55025	14.258	ug/l #	59
76) 1,2,3-Trichloropropane	12.829	75	128826	24.067	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	128826	68.276	ug/l #	1

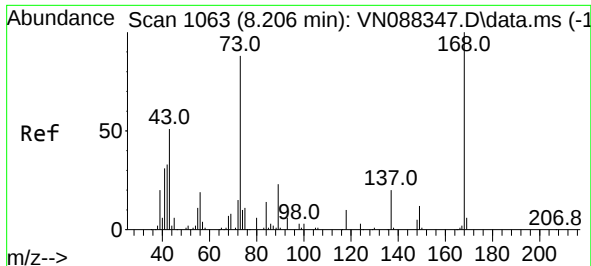
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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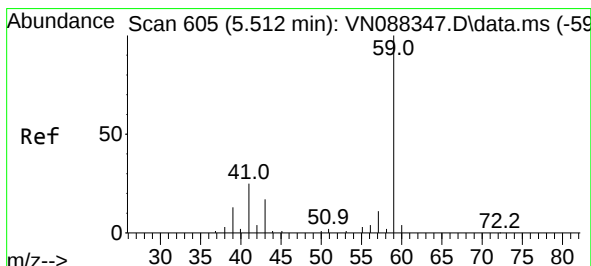
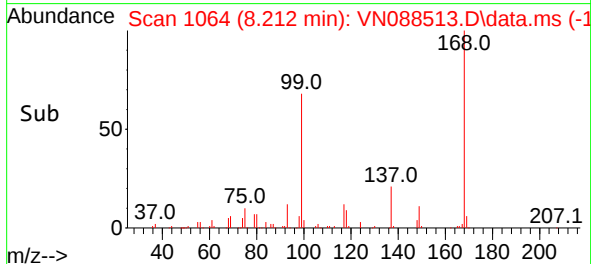
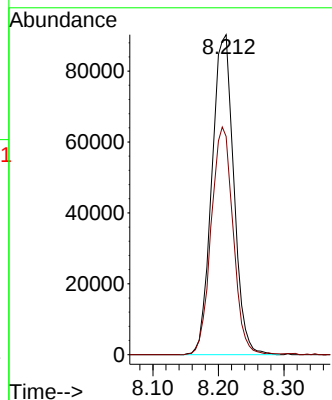
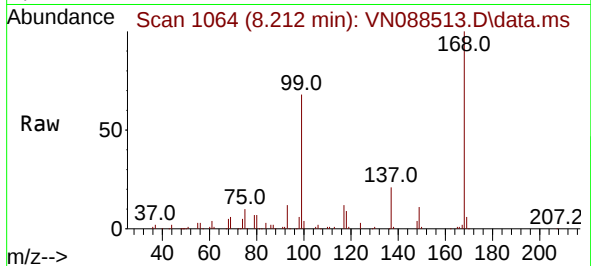




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. 0.006 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

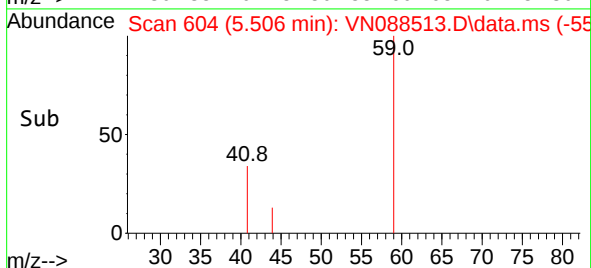
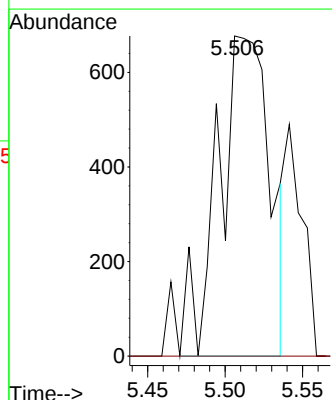
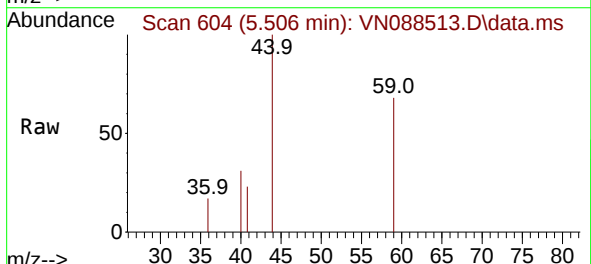
Instrument :
MSVOA_N
ClientSampleId :

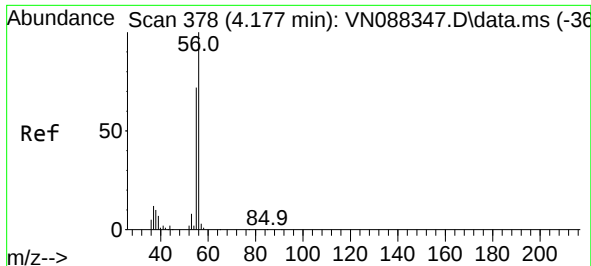
Tgt Ion:168 Resp: 209105
Ion Ratio Lower Upper
168 100
99 68.2 57.1 85.7



#11
Tert butyl alcohol
Concen: 2.511 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.006 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

Tgt Ion: 59 Resp: 1579
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

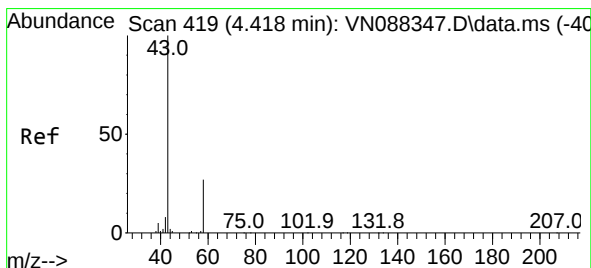
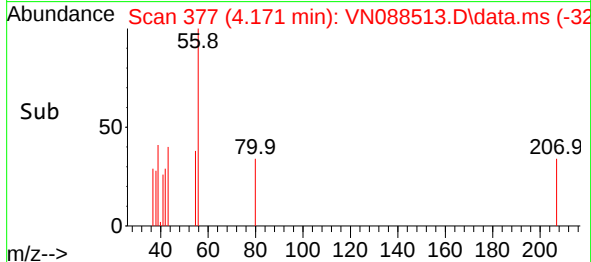
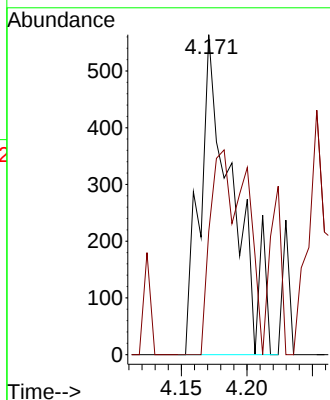
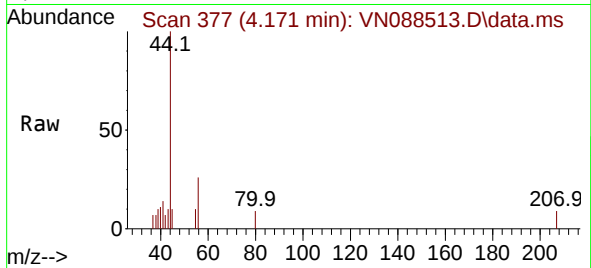




#13
Acrolein
Concen: 1.628 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

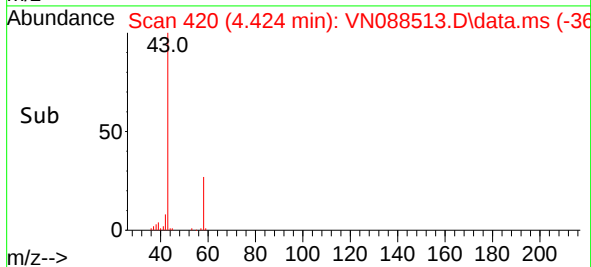
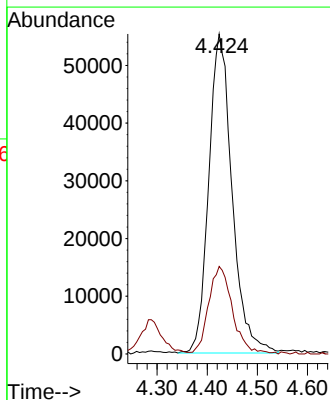
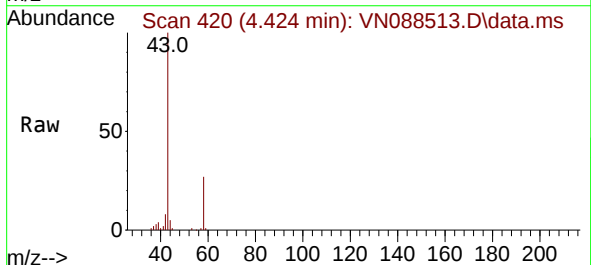
Instrument :
MSVOA_N
ClientSampleId :

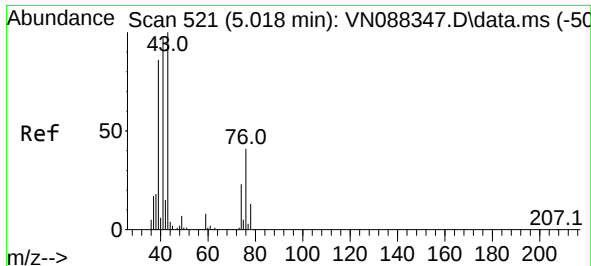
Tgt Ion: 56 Resp: 980
Ion Ratio Lower Upper
56 100
55 70.0 56.3 84.5



#16
Acetone
Concen: 125.300 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

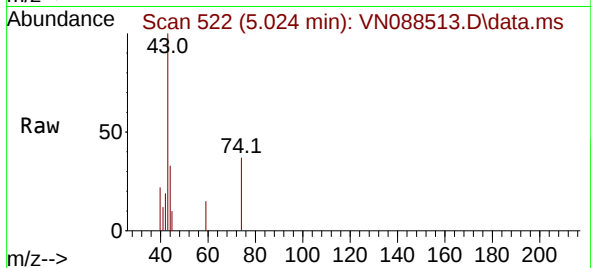
Tgt Ion: 43 Resp: 178501
Ion Ratio Lower Upper
43 100
58 27.4 21.7 32.5



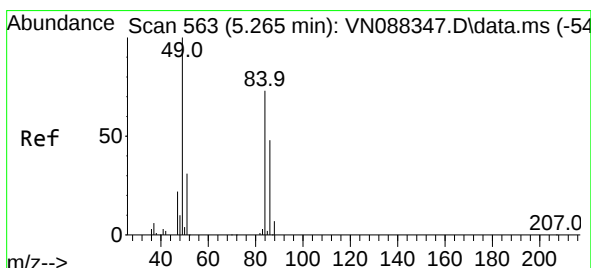
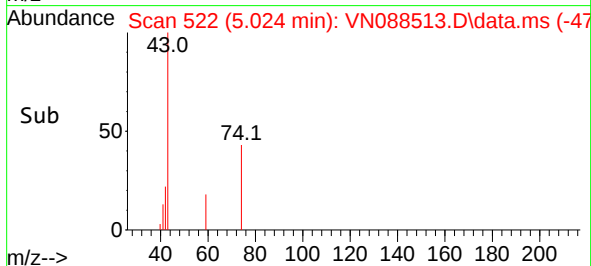
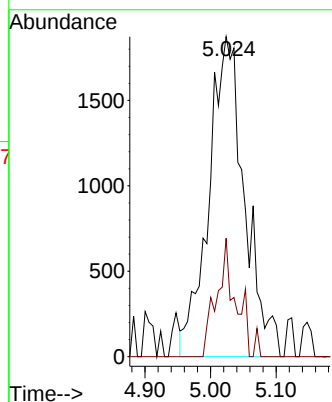


#18
Methyl Acetate
Concen: 1.679 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

Instrument :
MSVOA_N
ClientSampleId :

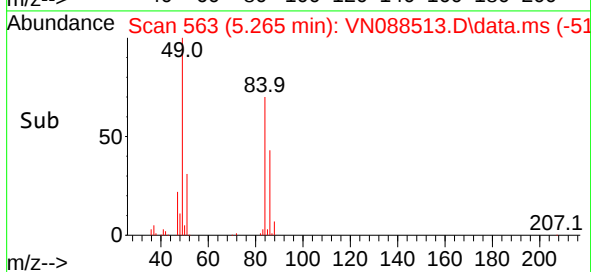
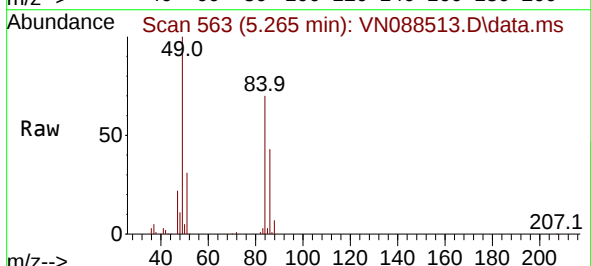
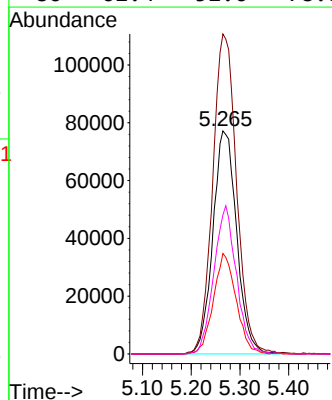


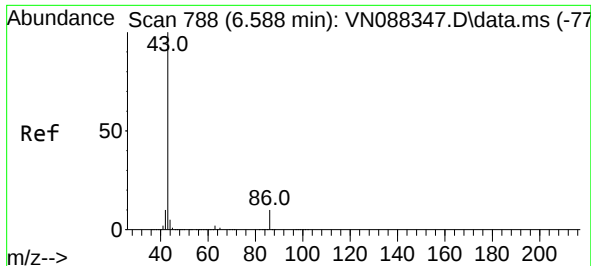
Tgt Ion: 43 Resp: 7121
Ion Ratio Lower Upper
43 100
74 19.1 17.9 26.9



#20
Methylene Chloride
Concen: 86.076 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.000 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

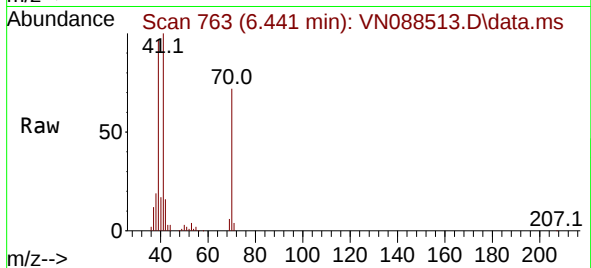
Tgt Ion: 84 Resp: 262355
Ion Ratio Lower Upper
84 100
49 143.5 110.2 165.2
51 45.1 34.1 51.1
86 62.4 52.6 78.8



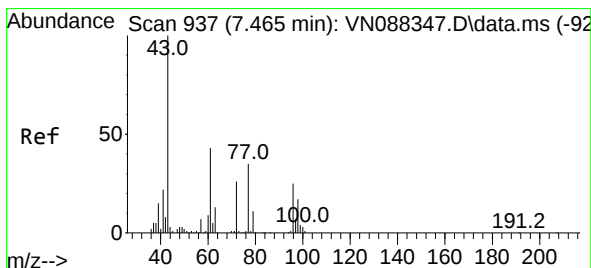
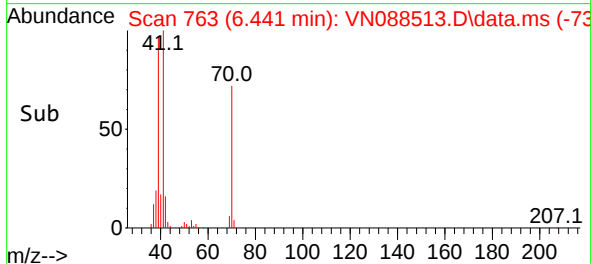
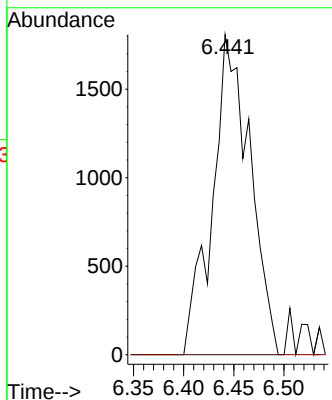


#23
Vinyl Acetate
Concen: 0.580 ug/l
RT: 6.441 min Scan# 70
Delta R.T. -0.147 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

Instrument :
MSVOA_N
ClientSampleId :

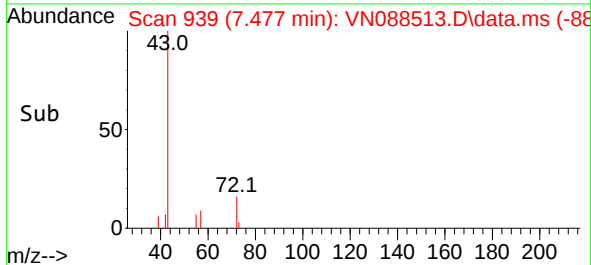
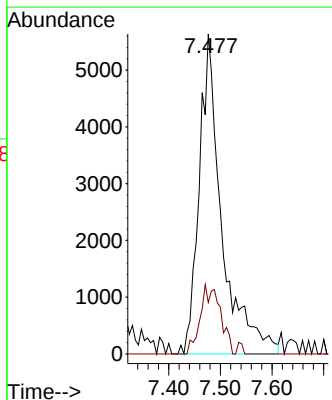
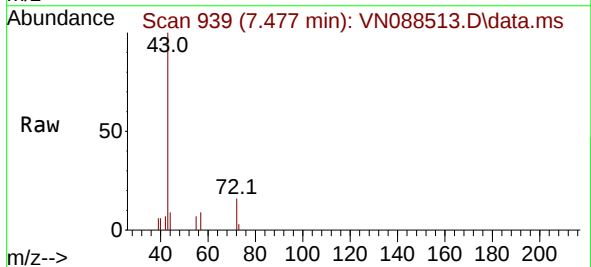


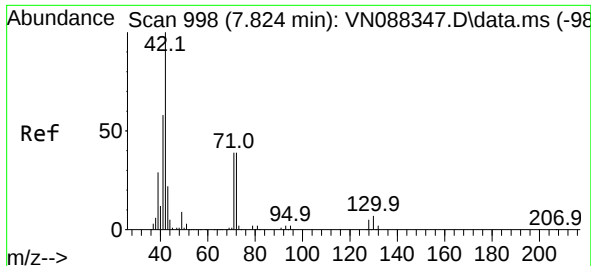
Tgt Ion: 43 Resp: 4720
Ion Ratio Lower Upper
43 100
86 0.0 7.8 11.8#



#25
2-Butanone
Concen: 7.490 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

Tgt Ion: 43 Resp: 17154
Ion Ratio Lower Upper
43 100
72 16.1 20.5 30.7#





#29

Tetrahydrofuran

Concen: 0.318 ug/l

RT: 7.824 min Scan# 998

Delta R.T. -0.000 min

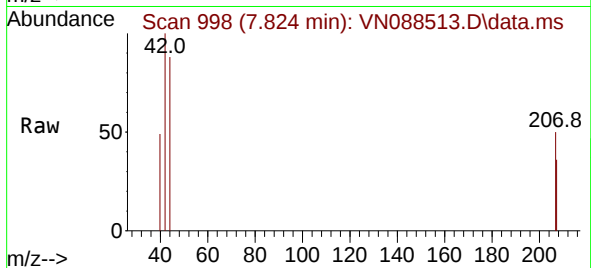
Lab File: VN088513.D

Acq: 10 Dec 2025 19:38

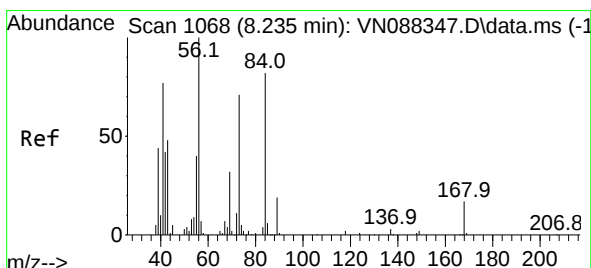
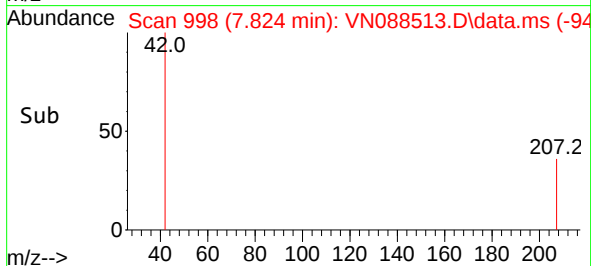
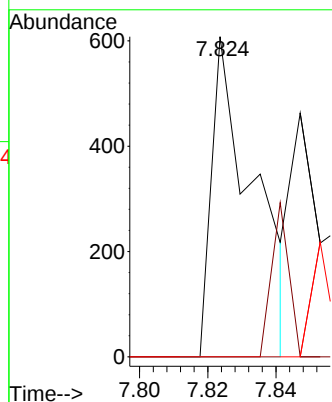
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	523
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.2	48.4#
71	0.0	31.1	46.7#



#31

Cyclohexane

Concen: 1.346 ug/l

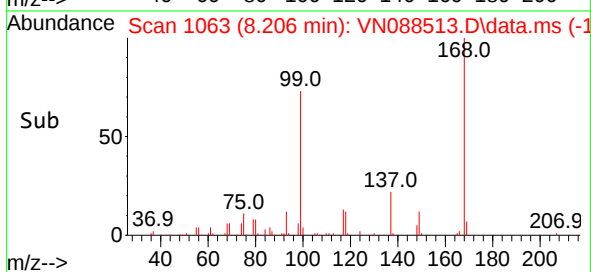
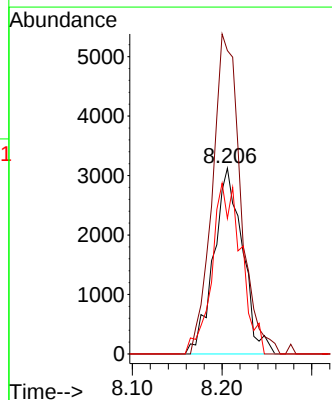
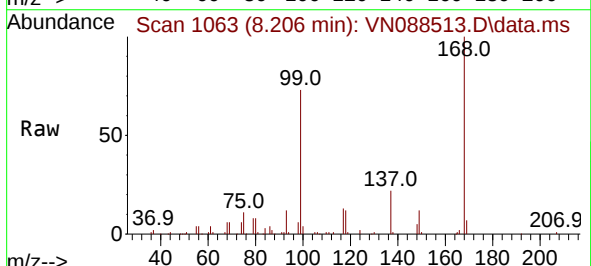
RT: 8.206 min Scan# 1063

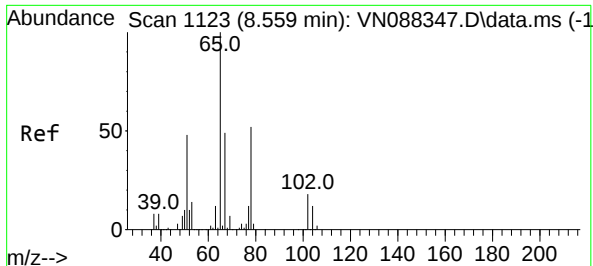
Delta R.T. -0.029 min

Lab File: VN088513.D

Acq: 10 Dec 2025 19:38

Tgt Ion:	56	Resp:	6972
Ion	Ratio	Lower	Upper
56	100		
69	163.4	25.3	37.9#
84	72.9	65.4	98.2





#33

1,2-Dichloroethane-d4

Concen: 58.539 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088513.D

Acq: 10 Dec 2025 19:38

Instrument :

MSVOA_N

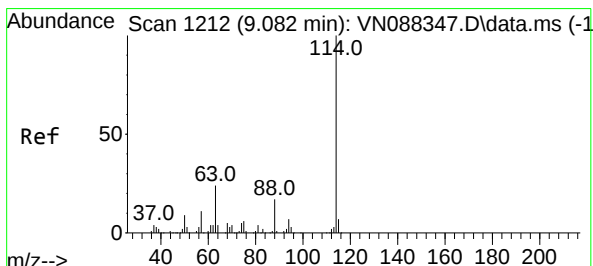
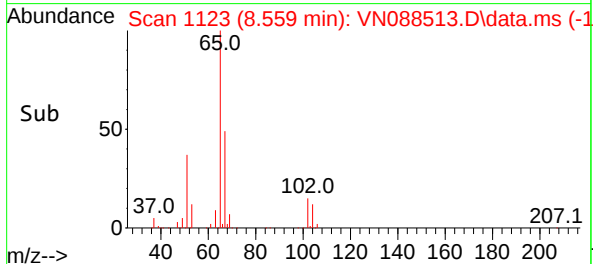
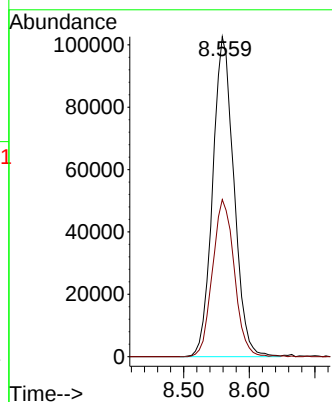
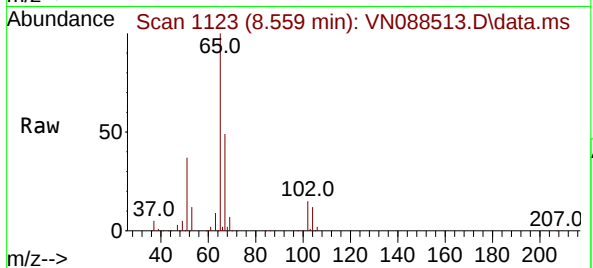
ClientSampleId :

Tgt Ion: 65 Resp: 230593

Ion Ratio Lower Upper

65 100

67 50.4 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: VN088513.D

Acq: 10 Dec 2025 19:38

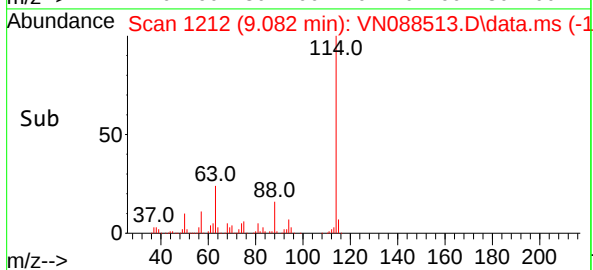
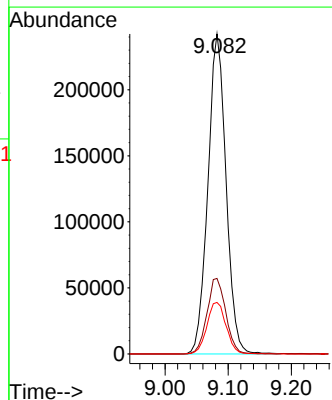
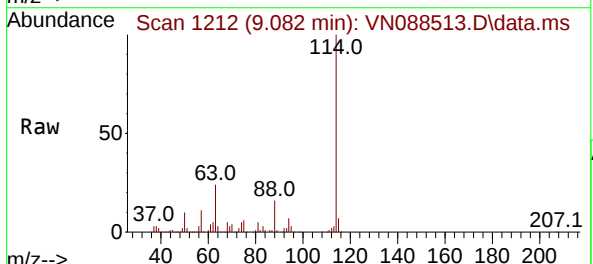
Tgt Ion: 114 Resp: 483731

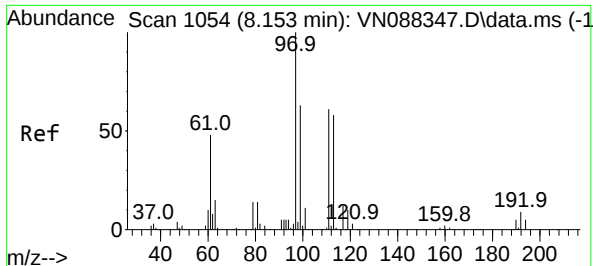
Ion Ratio Lower Upper

114 100

63 23.6 0.0 49.0

88 16.1 0.0 34.0

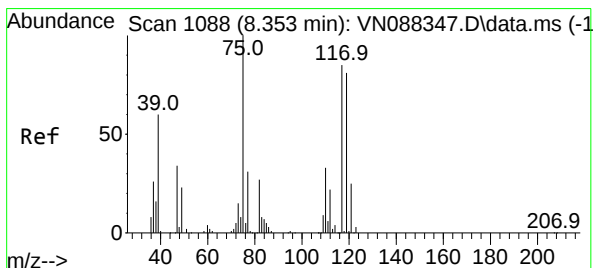
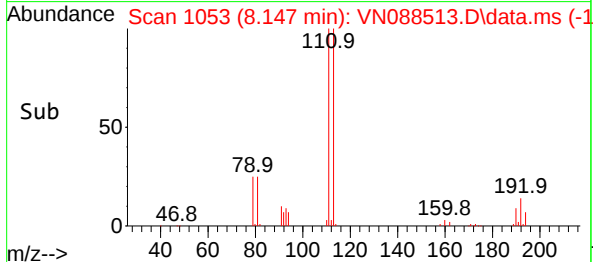
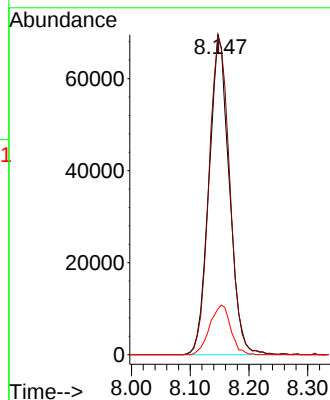
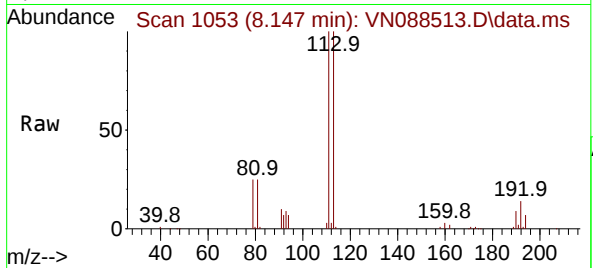




#35
Dibromofluoromethane
Concen: 49.493 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

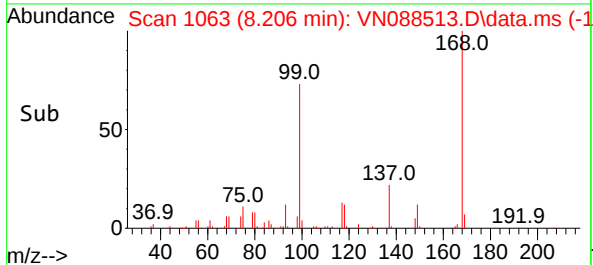
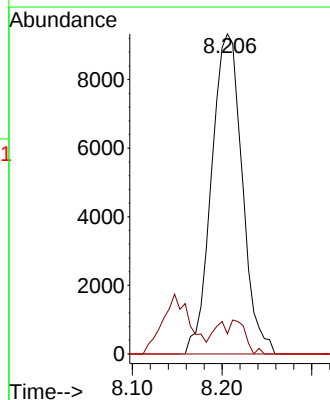
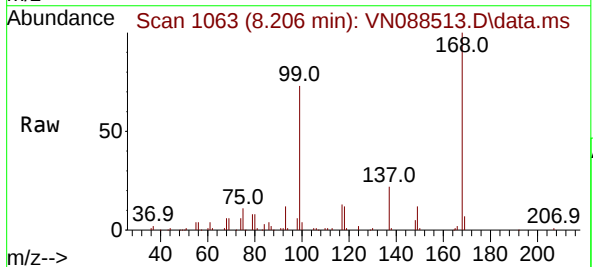
Instrument :
MSVOA_N
ClientSampleId :

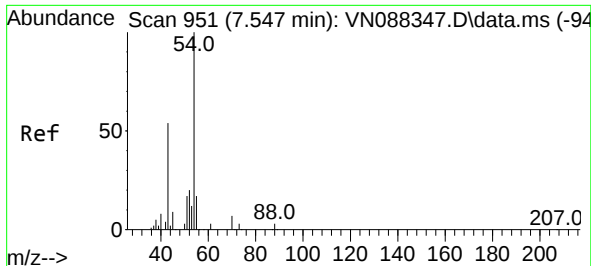
Tgt Ion:113 Resp: 165913
Ion Ratio Lower Upper
113 100
111 102.3 82.5 123.7
192 16.1 12.8 19.2



#36
1,1-Dichloropropene
Concen: 4.276 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.147 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

Tgt Ion: 75 Resp: 22120
Ion Ratio Lower Upper
75 100
110 4.7 15.8 47.4#
77 0.0 24.2 36.2#





#37

Ethyl Acetate

Concen: 2.522 ug/l

RT: 7.477 min Scan# 91

Delta R.T. -0.071 min

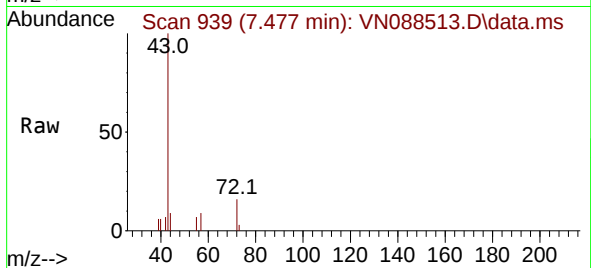
Lab File: VN088513.D

Acq: 10 Dec 2025 19:38

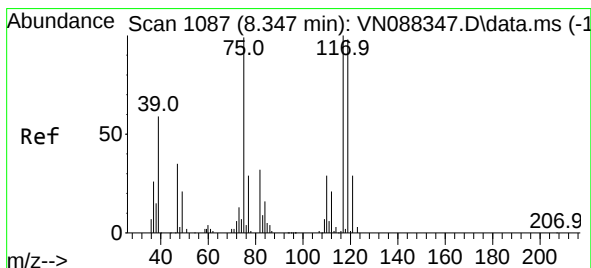
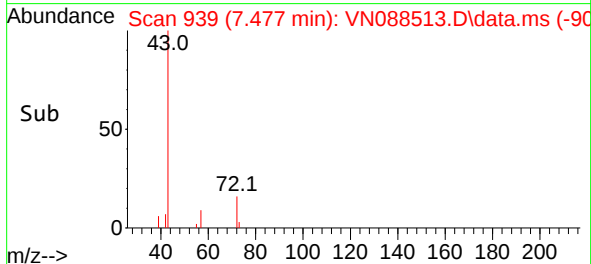
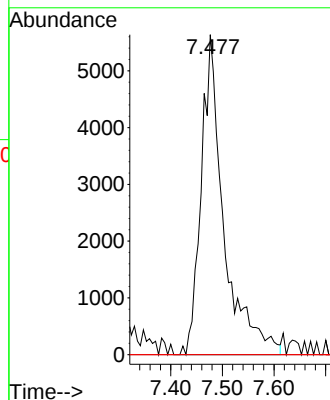
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	17154
Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.5	14.3#
70	0.0	7.1	10.7#



#38

Carbon Tetrachloride

Concen: 5.130 ug/l

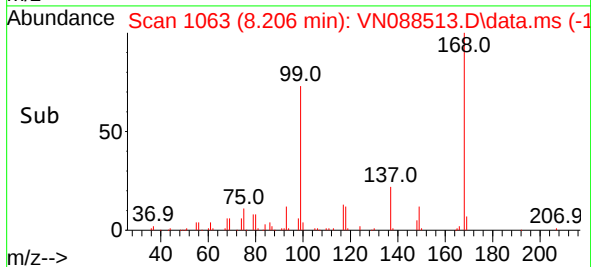
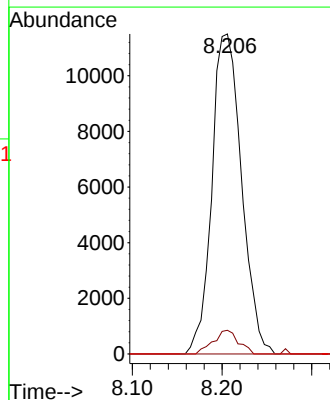
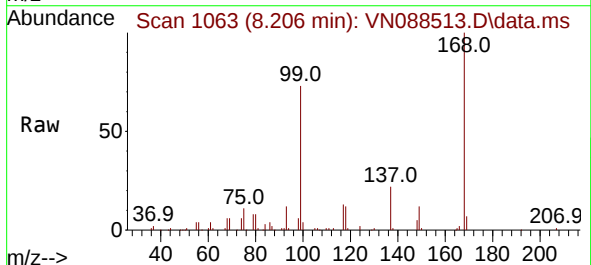
RT: 8.206 min Scan# 1063

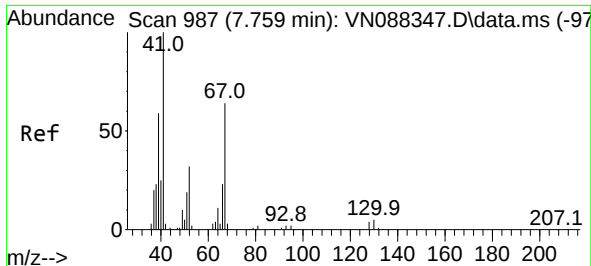
Delta R.T. -0.141 min

Lab File: VN088513.D

Acq: 10 Dec 2025 19:38

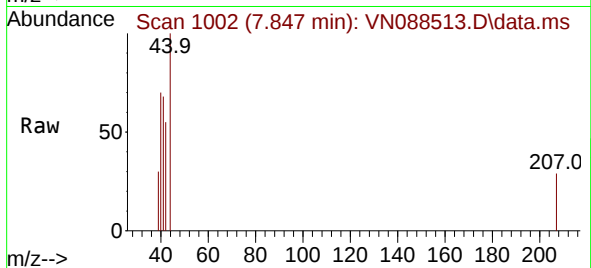
Tgt Ion:	117	Resp:	26419
Ion	Ratio	Lower	Upper
117	100		
119	7.4	78.2	117.4#
121	0.0	23.4	35.2#



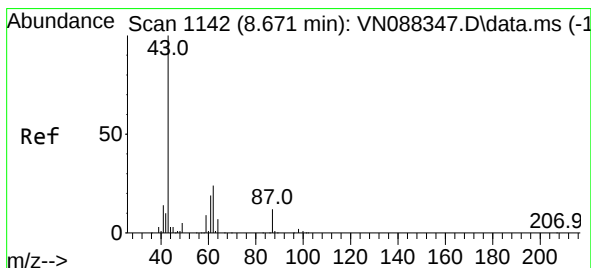
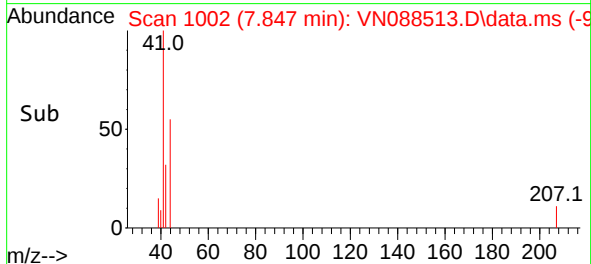
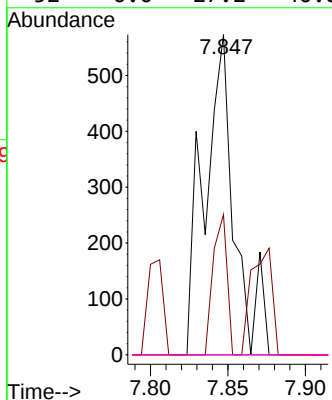


#41
Methacrylonitrile
Concen: 0.230 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.088 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

Instrument :
MSVOA_N
ClientSampleId :

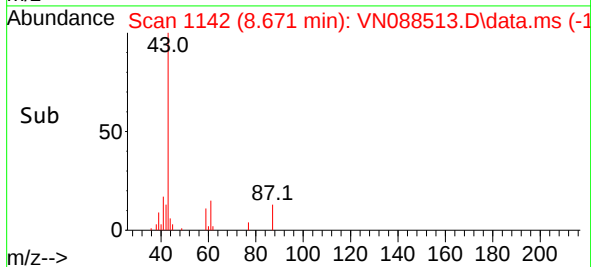
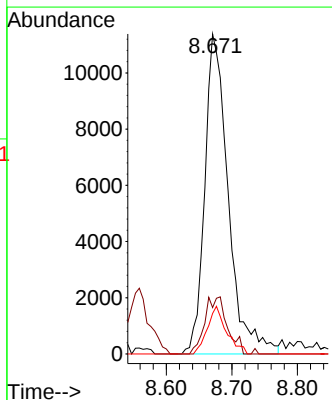
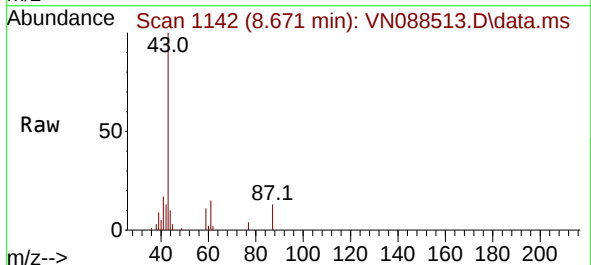


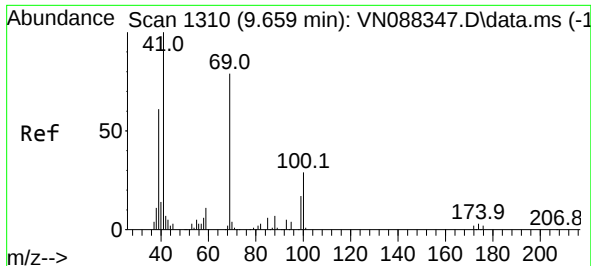
Tgt Ion:	41	Resp:	774
Ion	Ratio	Lower	Upper
41	100		
39	20.2	46.3	69.5#
67	0.0	54.7	82.1#
52	0.0	27.2	40.8#



#43
Isopropyl Acetate
Concen: 2.733 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

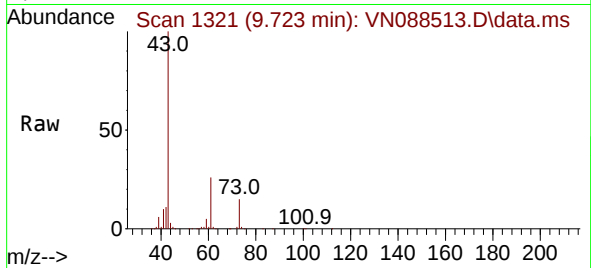
Tgt Ion:	43	Resp:	28409
Ion	Ratio	Lower	Upper
43	100		
61	17.1	18.7	28.1#
87	12.1	9.1	13.7



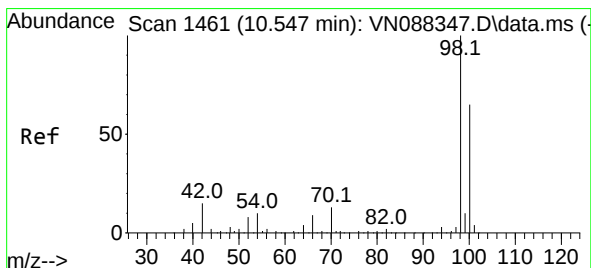
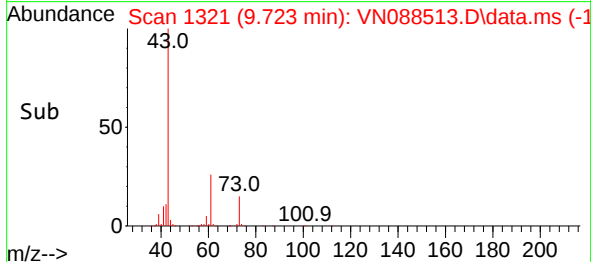
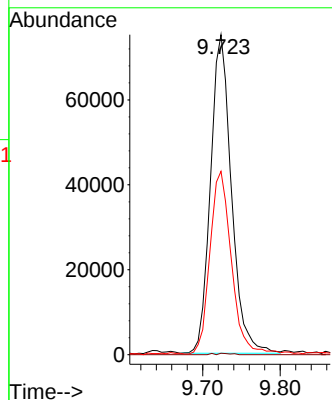


#48
Methyl methacrylate
Concen: 29.695 ug/l
RT: 9.723 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

Instrument :
MSVOA_N
ClientSampleId :

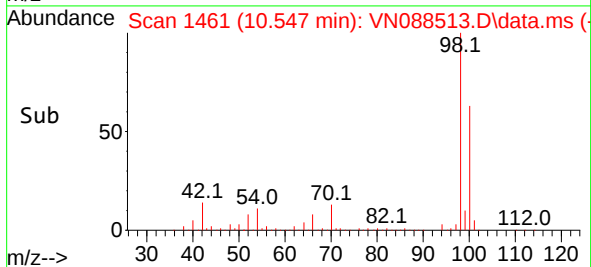
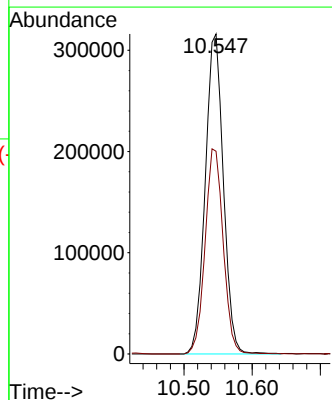
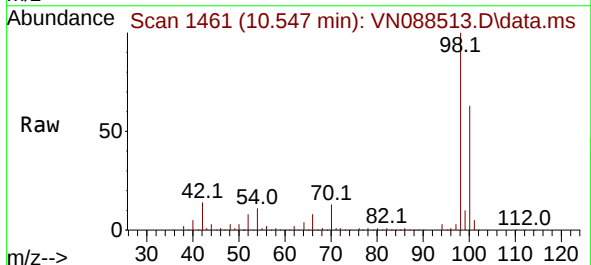


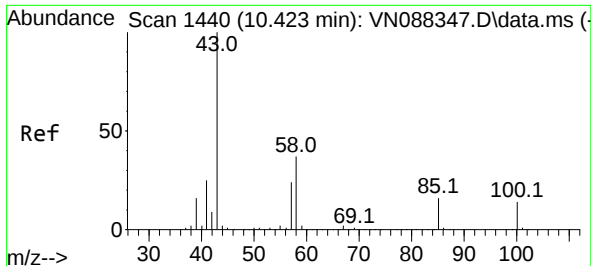
Tgt Ion: 41 Resp: 140821
Ion Ratio Lower Upper
41 100
69 0.3 62.4 93.6#
39 58.8 52.6 79.0



#50
Toluene-d8
Concen: 46.760 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

Tgt Ion: 98 Resp: 583238
Ion Ratio Lower Upper
98 100
100 64.3 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 2.975 ug/l

RT: 10.429 min Scan# 1440

Delta R.T. 0.006 min

Lab File: VN088513.D

Acq: 10 Dec 2025 19:38

Instrument :

MSVOA_N

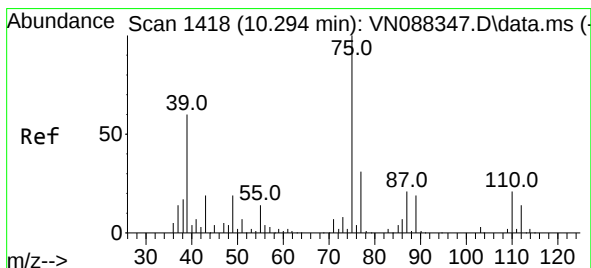
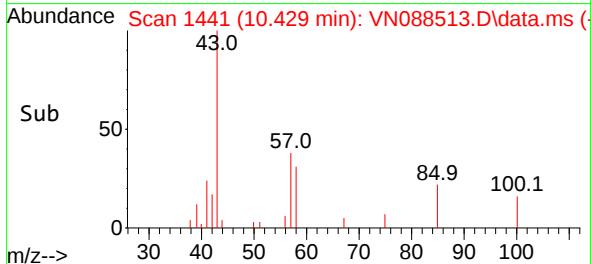
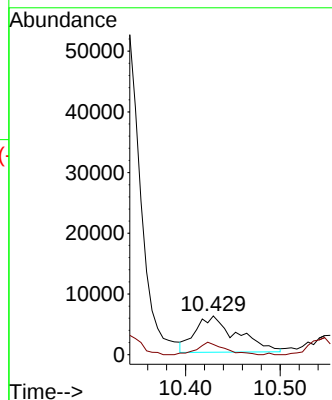
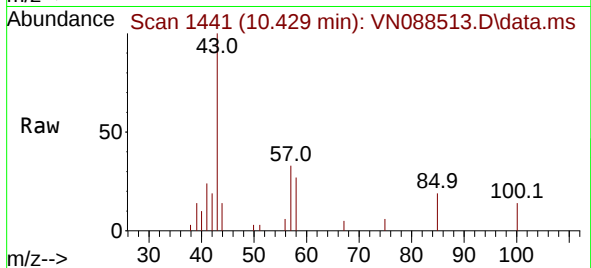
ClientSampleId :

Tgt Ion: 43 Resp: 18227

Ion Ratio Lower Upper

43 100

58 22.1 29.1 43.7#



#54

cis-1,3-Dichloropropene

Concen: 6.831 ug/l

RT: 10.335 min Scan# 1425

Delta R.T. 0.041 min

Lab File: VN088513.D

Acq: 10 Dec 2025 19:38

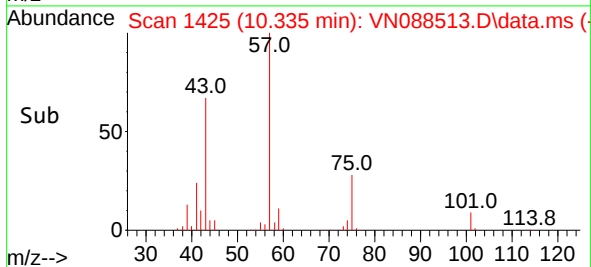
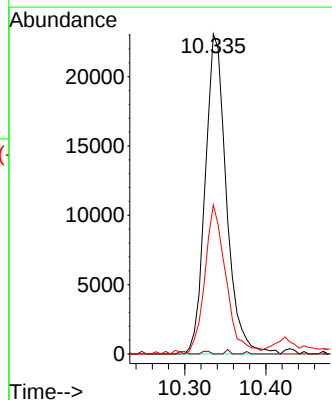
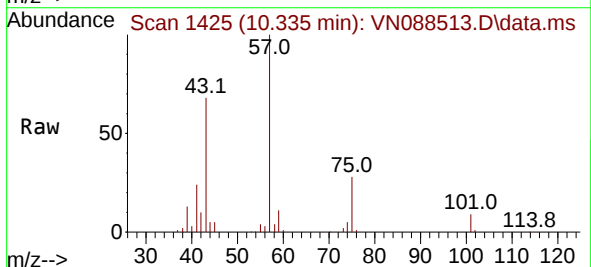
Tgt Ion: 75 Resp: 41774

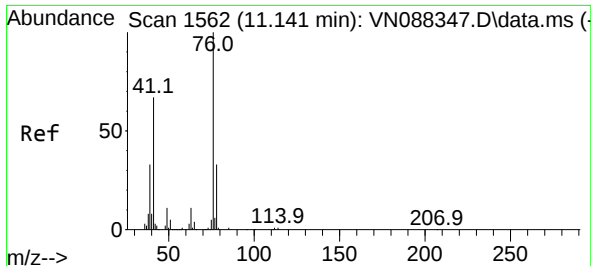
Ion Ratio Lower Upper

75 100

77 0.0 24.5 36.7#

39 45.9 48.3 72.5#

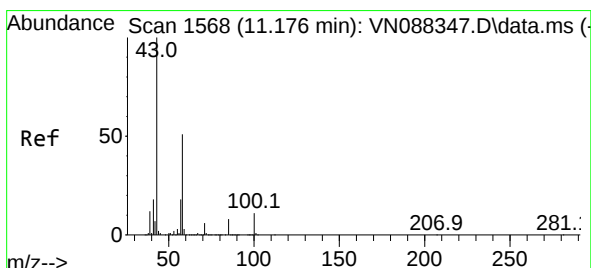
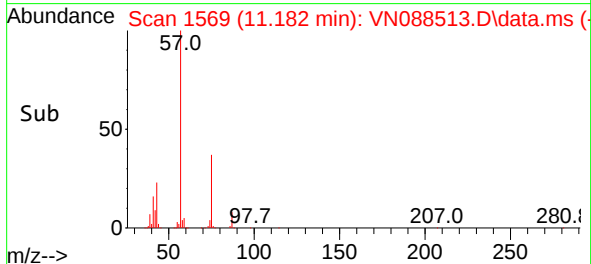
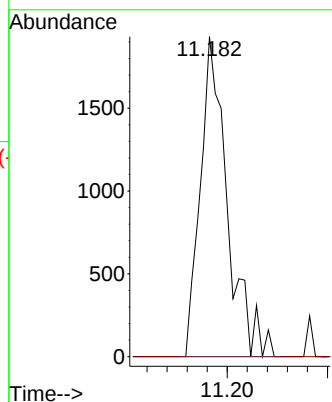
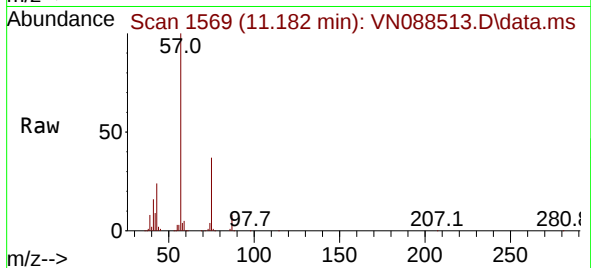




#57
1,3-Dichloropropane
Concen: 0.591 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. 0.041 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

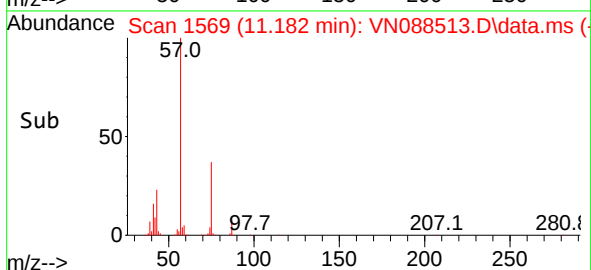
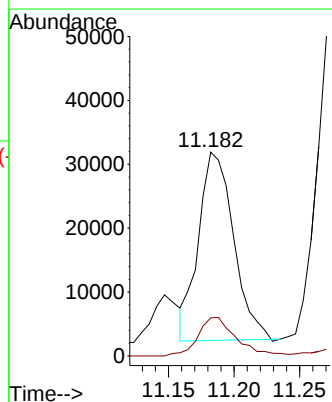
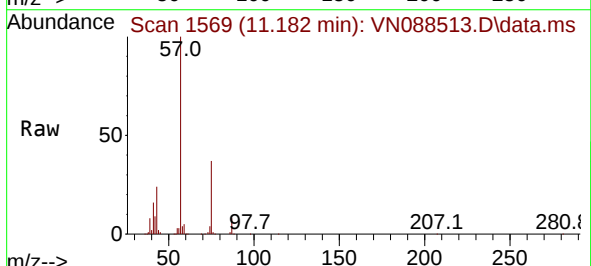
Instrument :
MSVOA_N
ClientSampleId :

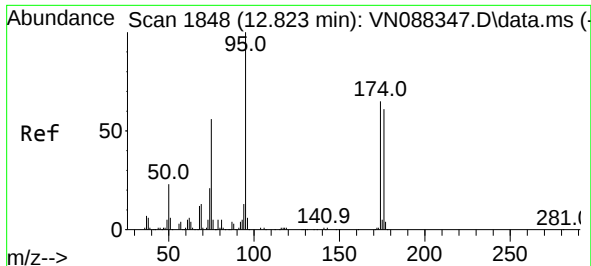
Tgt Ion: 76 Resp: 3614
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.4#



#59
2-Hexanone
Concen: 14.258 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. 0.006 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

Tgt Ion: 43 Resp: 55025
Ion Ratio Lower Upper
43 100
58 22.1 25.3 75.9#

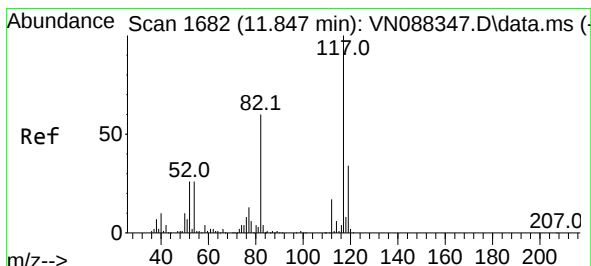
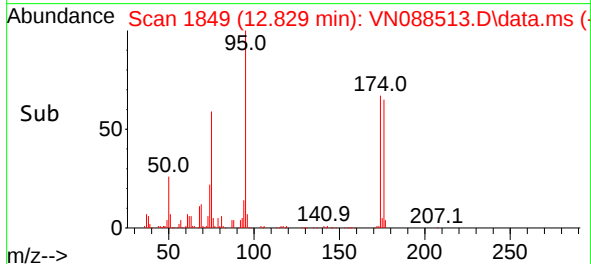
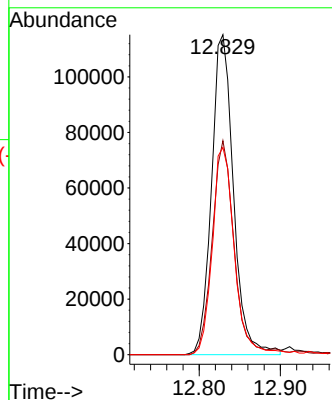
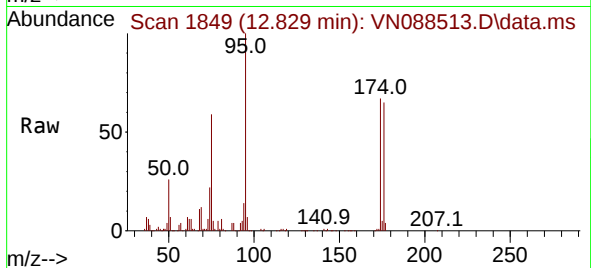




#62
4-Bromofluorobenzene
Concen: 50.612 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

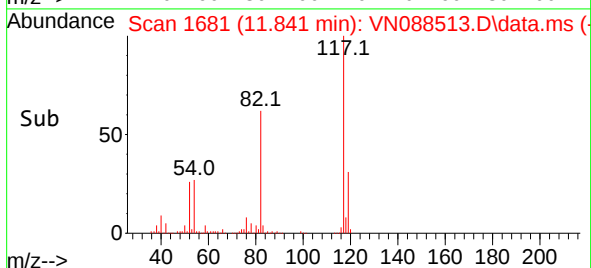
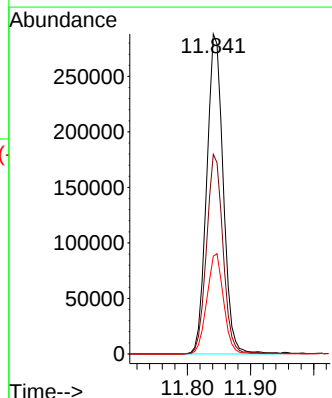
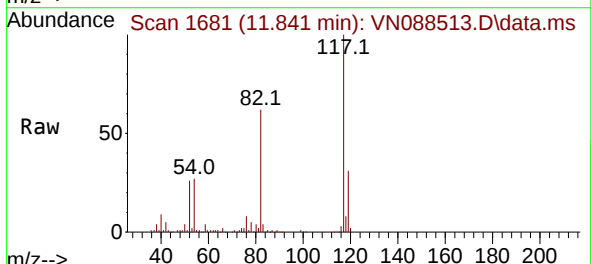
Instrument :
MSVOA_N
ClientSampleId :

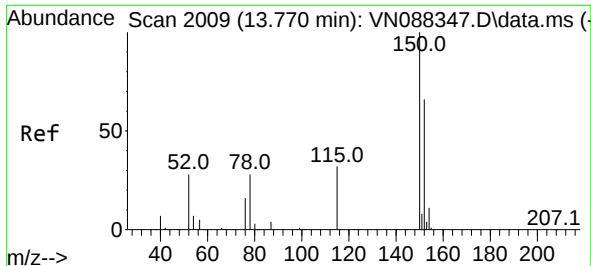
Tgt Ion: 95 Resp: 216603
Ion Ratio Lower Upper
95 100
174 66.9 0.0 139.0
176 65.2 0.0 132.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

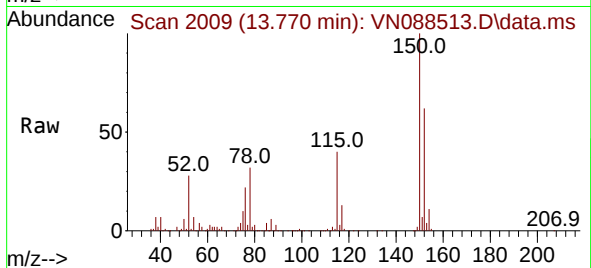
Tgt Ion: 117 Resp: 523529
Ion Ratio Lower Upper
117 100
82 62.4 47.8 71.8
119 30.5 26.9 40.3



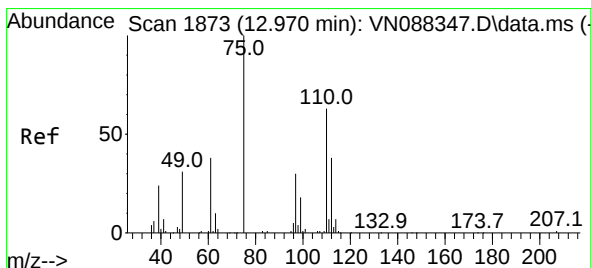
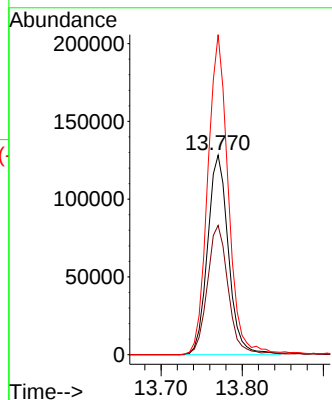
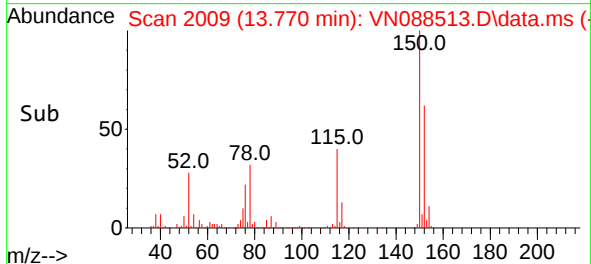


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. -0.000 min
 Lab File: VN088513.D
 Acq: 10 Dec 2025 19:38

Instrument :
 MSVOA_N
 ClientSampleId :

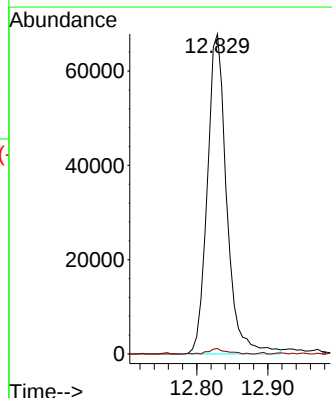
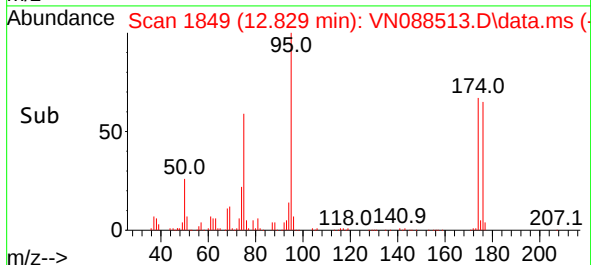
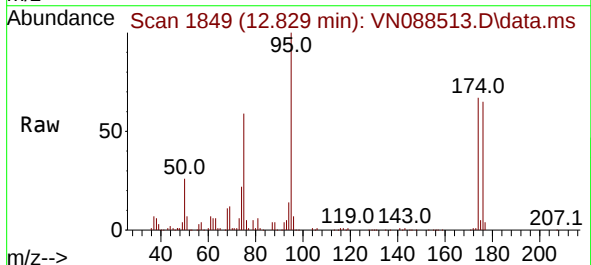


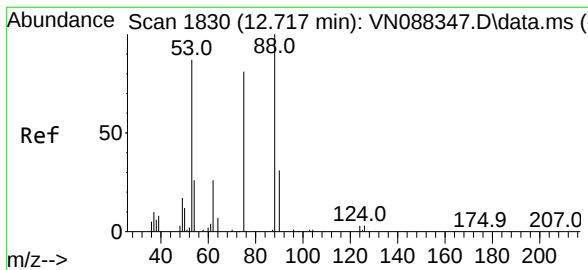
Tgt Ion:152 Resp: 228541
 Ion Ratio Lower Upper
 152 100
 115 65.4 33.0 98.9
 150 159.1 0.0 349.0



#76
 1,2,3-Trichloropropane
 Concen: 24.067 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN088513.D
 Acq: 10 Dec 2025 19:38

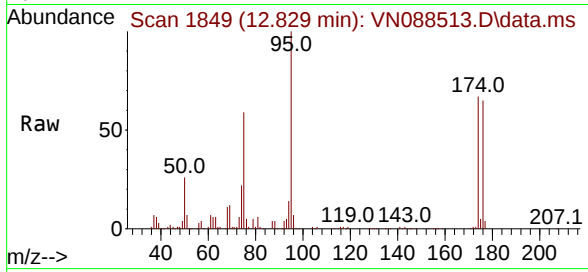
Tgt Ion: 75 Resp: 128826
 Ion Ratio Lower Upper
 75 100
 77 1.6 87.2 261.6#





#81
trans-1,4-Dichloro-2-butene
Concen: 68.276 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN088513.D
Acq: 10 Dec 2025 19:38

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 128826
Ion Ratio Lower Upper
75 100
53 0.1 92.2 138.4#
89 0.2 0.0 0.0#

