

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032425\
 Data File : VN086079.D
 Acq On : 24 Mar 2025 18:01
 Operator : JC\MD
 Sample : Q1619-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

Quant Time: Mar 25 01:28:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

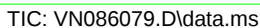
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

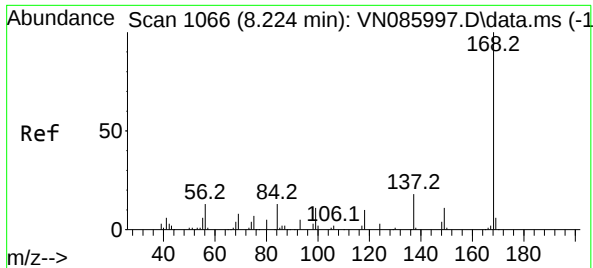
Internal Standards						
1) Pentafluorobenzene	8.218	168	300803	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	542226	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	509171	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	228374	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	200858	48.764	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.520%		
35) Dibromofluoromethane	8.165	113	176990	46.765	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.520%		
50) Toluene-d8	10.565	98	679414	49.463	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.920%		
62) 4-Bromofluorobenzene	12.847	95	233717	47.711	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	95.420%		
Target Compounds						Qvalue
5) Bromomethane	2.971	94	720	0.296	ug/l #	66
11) Tert butyl alcohol	5.524	59	415	0.712	ug/l #	73
13) Acrolein	4.165	56	265	0.426	ug/l #	15
16) Acetone	4.424	43	54856	43.592	ug/l	92
18) Methyl Acetate	5.036	43	2649	0.851	ug/l	90
20) Methylene Chloride	5.271	84	17685	4.804	ug/l	97
25) 2-Butanone	7.483	43	9371	5.161	ug/l	92
29) Tetrahydrofuran	7.853	42	357	0.318	ug/l #	49
30) Chloroform	7.959	83	1415	0.212	ug/l	90
31) Cyclohexane	8.218	56	5698	1.110	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	22808	4.577	ug/l #	50
37) Ethyl Acetate	7.559	43	3941	0.937	ug/l #	86
38) Carbon Tetrachloride	8.218	117	31291	4.775	ug/l #	16
42) 1,2-Dichloroethane	8.677	62	1212	0.222	ug/l #	74
43) Isopropyl Acetate	8.688	43	152942	16.788	ug/l #	86
45) 1,2-Dichloropropane	9.735	63	1846	0.519	ug/l #	44
48) Methyl methacrylate	9.665	41	4327	1.439	ug/l #	33
49) 1,4-Dioxane	9.741	88	153	2.153	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	12874	3.204	ug/l #	69
52) Toluene	10.624	92	4175	0.435	ug/l	94
54) cis-1,3-Dichloropropene	10.353	75	54925	9.166	ug/l #	66
56) Ethyl methacrylate	10.847	69	121	0.213	ug/l #	33
57) 1,3-Dichloropropane	11.200	76	7240	1.163	ug/l #	42
59) 2-Hexanone	11.165	43	112742	38.518	ug/l #	18
76) 1,2,3-Trichloropropane	12.847	75	115827	22.654	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	115827	59.894	ug/l #	16
94) Hexachlorobutadiene	15.488	225	461	0.203	ug/l #	45
95) Naphthalene	15.641	128	9419	0.830	ug/l #	89

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

Instrument :
MSVOA_N
ClientSampleId :
TP-2

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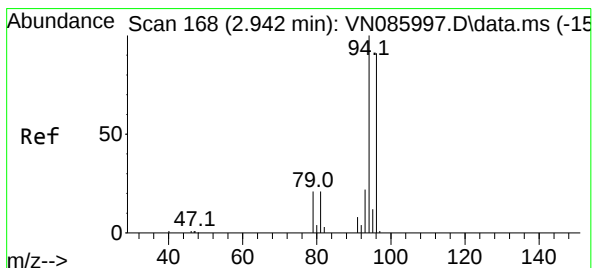
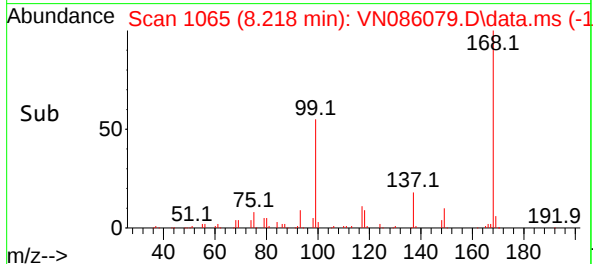
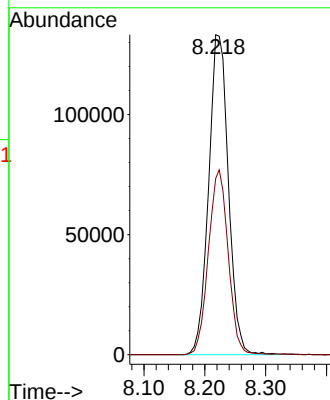
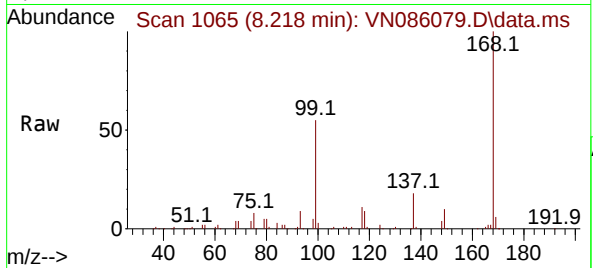




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

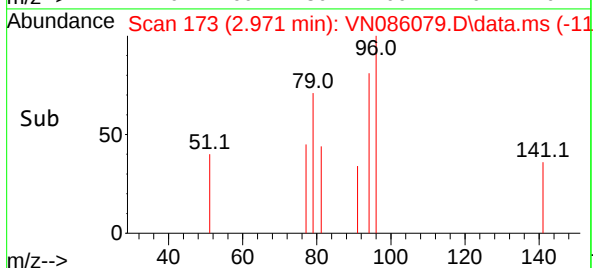
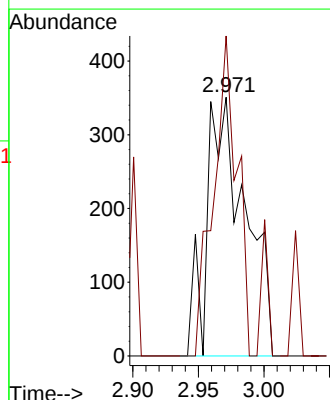
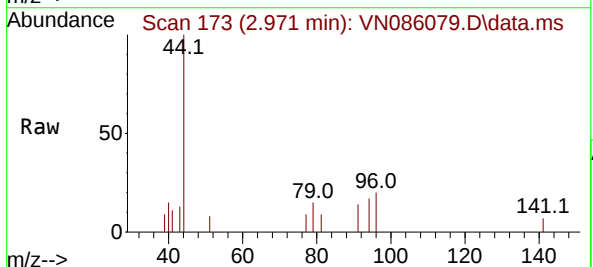
Instrument :
MSVOA_N
ClientSampleId :
TP-2

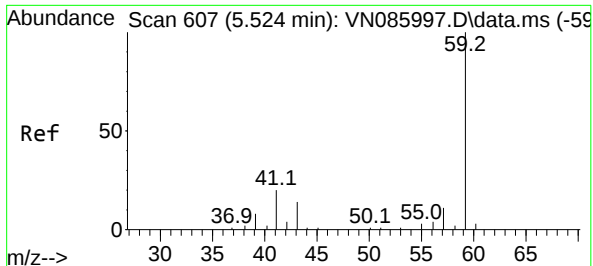
Tgt Ion:168 Resp: 300803
Ion Ratio Lower Upper
168 100
99 55.1 49.4 74.2



#5
Bromomethane
Concen: 0.296 ug/l
RT: 2.971 min Scan# 173
Delta R.T. 0.029 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

Tgt Ion: 94 Resp: 720
Ion Ratio Lower Upper
94 100
96 123.6 72.8 109.2#

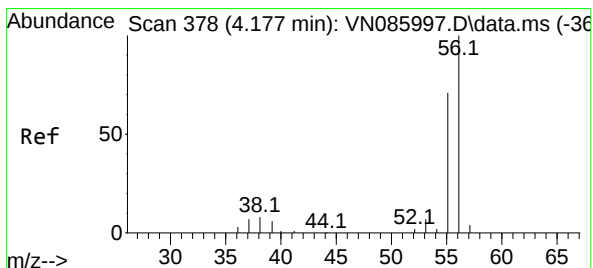
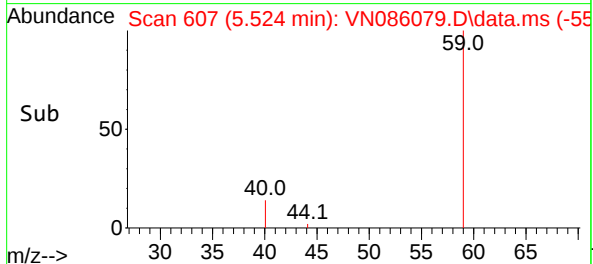
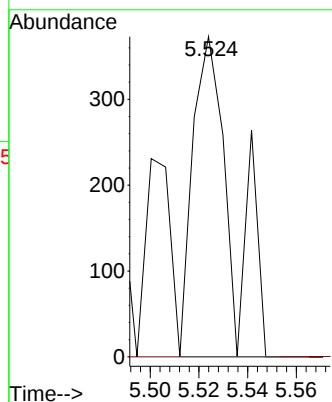
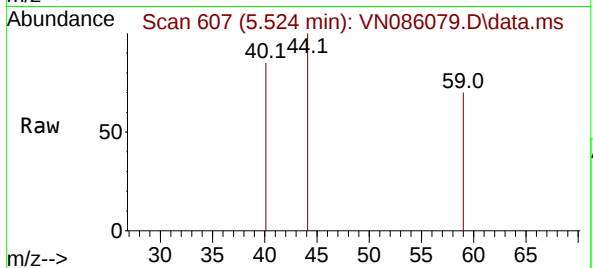




#11
Tert butyl alcohol
Concen: 0.712 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.000 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

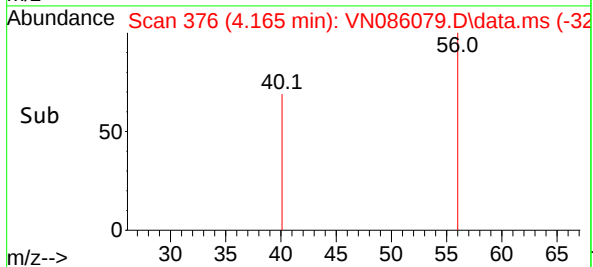
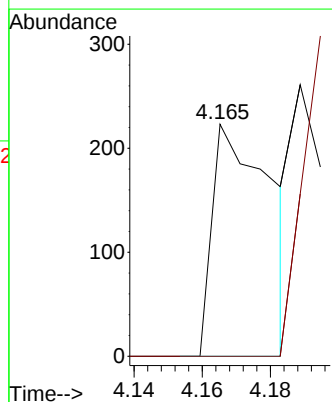
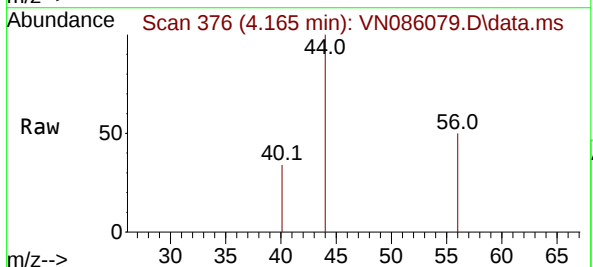
Instrument :
MSVOA_N
ClientSampleId :
TP-2

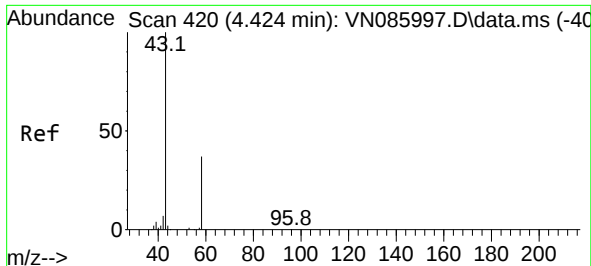
Tgt Ion: 59 Resp: 415
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#13
Acrolein
Concen: 0.426 ug/l
RT: 4.165 min Scan# 376
Delta R.T. -0.012 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

Tgt Ion: 56 Resp: 265
Ion Ratio Lower Upper
56 100
55 0.0 55.1 82.7#





#16

Acetone

Concen: 43.592 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN086079.D

Acq: 24 Mar 2025 18:01

Instrument :

MSVOA_N

ClientSampleId :

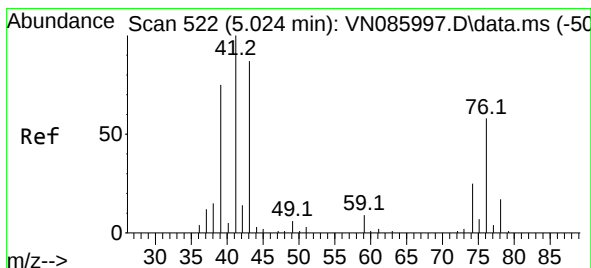
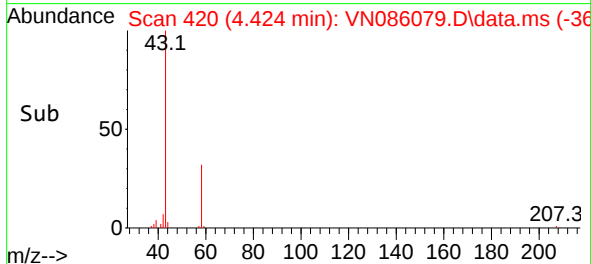
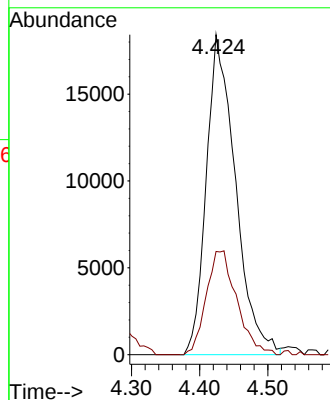
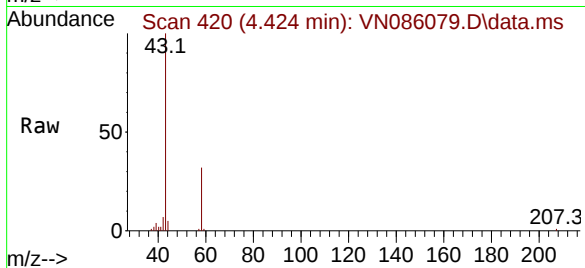
TP-2

Tgt Ion: 43 Resp: 54856

Ion Ratio Lower Upper

43 100

58 32.3 29.4 44.2



#18

Methyl Acetate

Concen: 0.851 ug/l

RT: 5.036 min Scan# 524

Delta R.T. 0.012 min

Lab File: VN086079.D

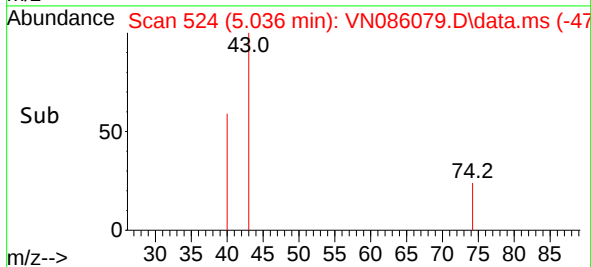
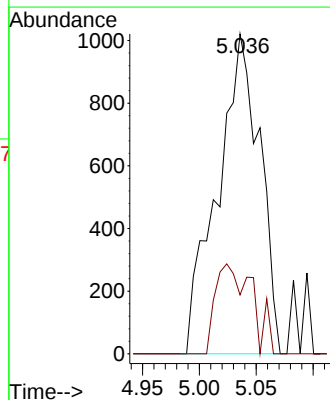
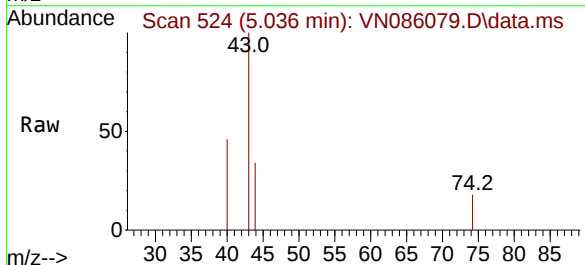
Acq: 24 Mar 2025 18:01

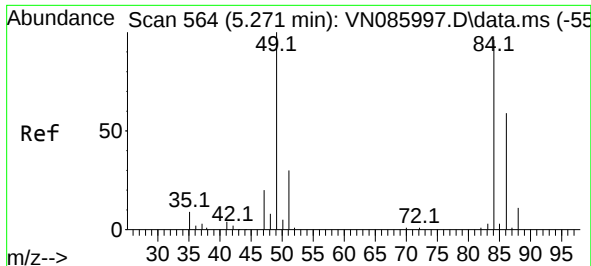
Tgt Ion: 43 Resp: 2649

Ion Ratio Lower Upper

43 100

74 24.3 23.9 35.9



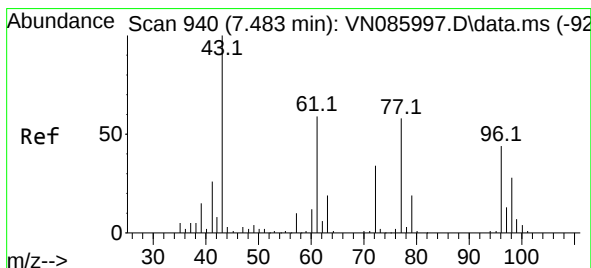
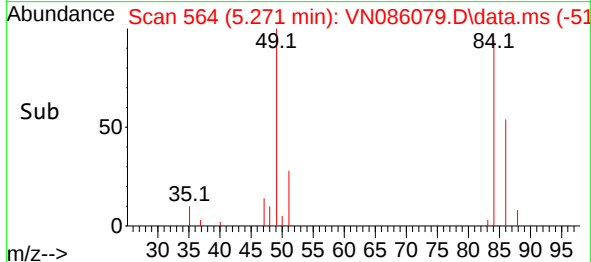
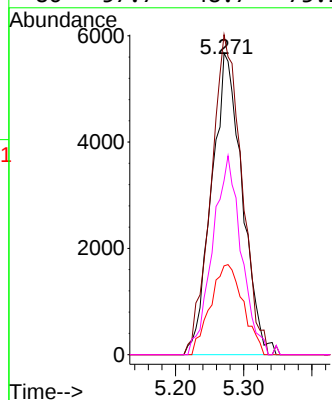
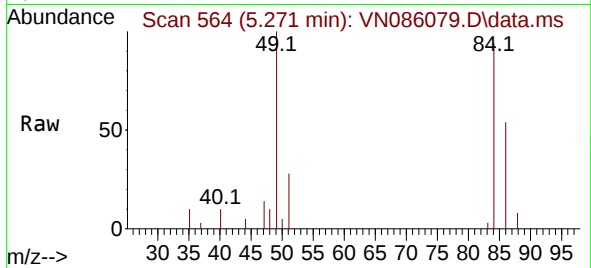


#20
Methylene Chloride
Concen: 4.804 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

Instrument :
MSVOA_N
ClientSampleId :
TP-2

Tgt Ion: 84 Resp: 17685

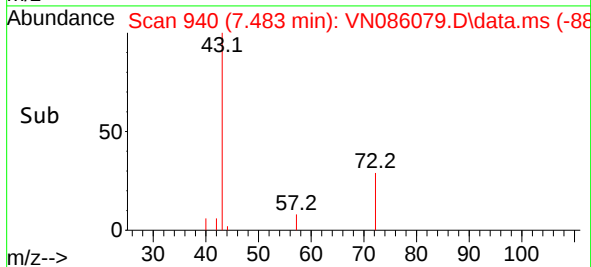
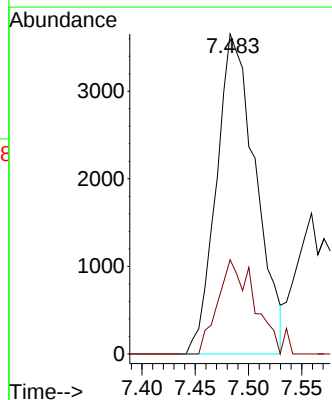
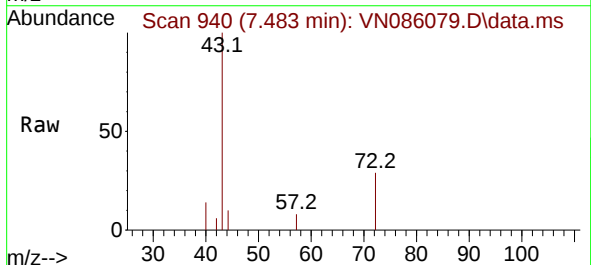
Ion	Ratio	Lower	Upper
84	100		
49	106.1	83.3	124.9
51	29.5	24.8	37.2
86	57.7	48.7	73.1

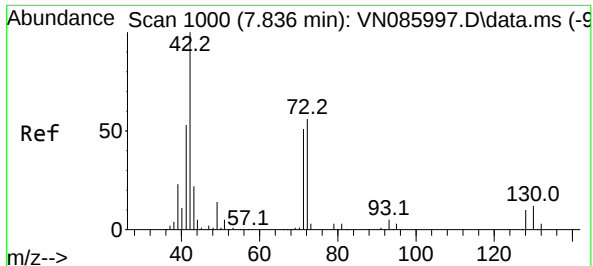


#25
2-Butanone
Concen: 5.161 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

Tgt Ion: 43 Resp: 9371

Ion	Ratio	Lower	Upper
43	100		
72	29.4	27.4	41.0





#29

Tetrahydrofuran

Concen: 0.318 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. 0.018 min

Lab File: VN086079.D

Acq: 24 Mar 2025 18:01

Instrument :

MSVOA_N

ClientSampleId :

TP-2

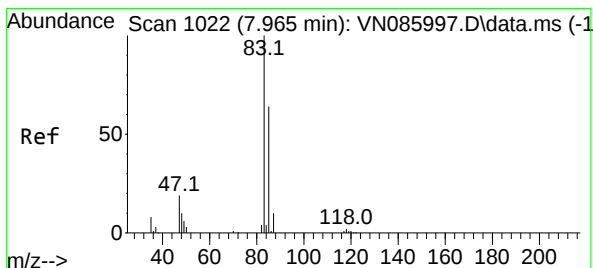
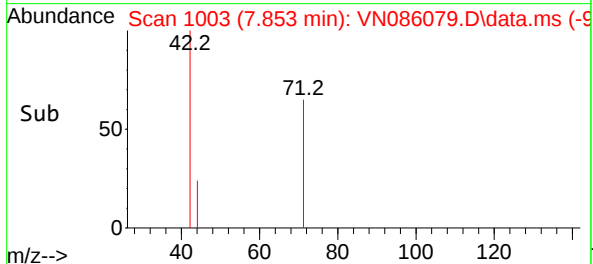
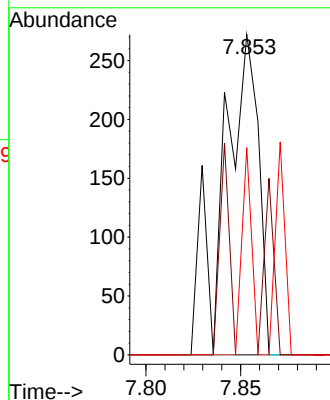
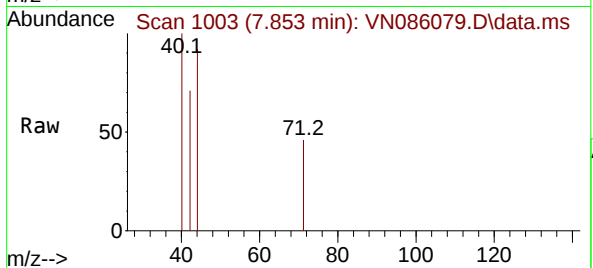
Tgt Ion: 42 Resp: 357

Ion Ratio Lower Upper

42 100

72 17.9 45.0 67.4#

71 17.4 41.9 62.9#



#30

Chloroform

Concen: 0.212 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN086079.D

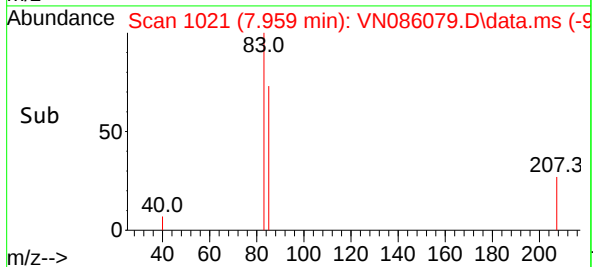
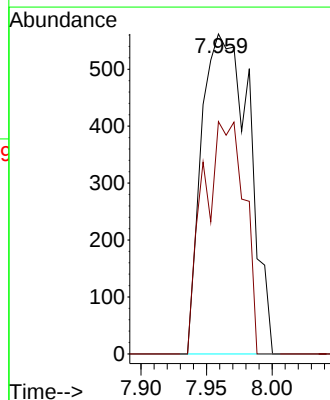
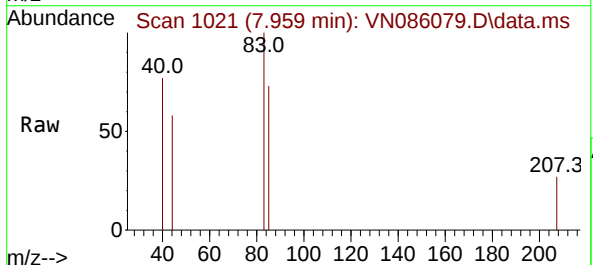
Acq: 24 Mar 2025 18:01

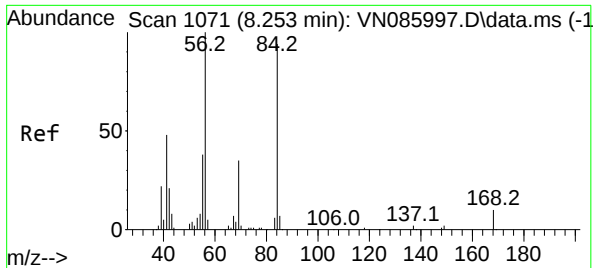
Tgt Ion: 83 Resp: 1415

Ion Ratio Lower Upper

83 100

85 72.6 51.5 77.3

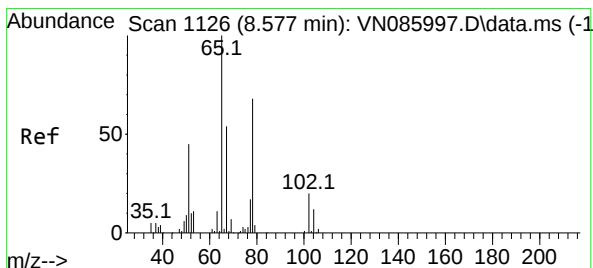
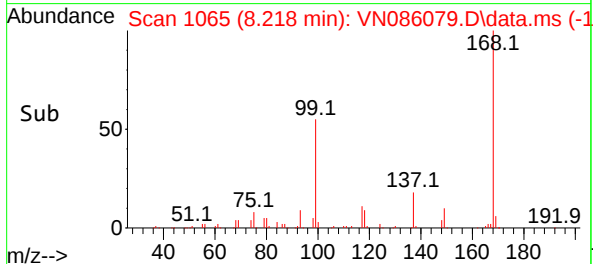
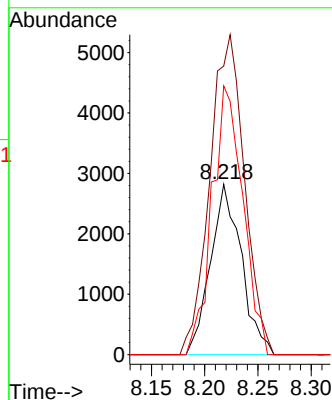
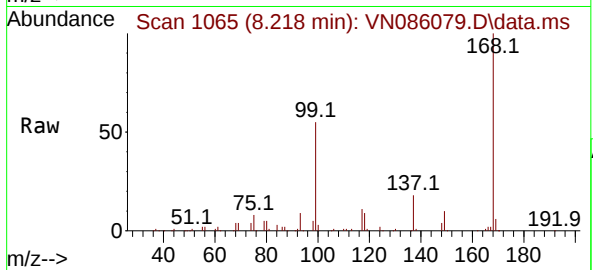




#31
Cyclohexane
Concen: 1.110 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

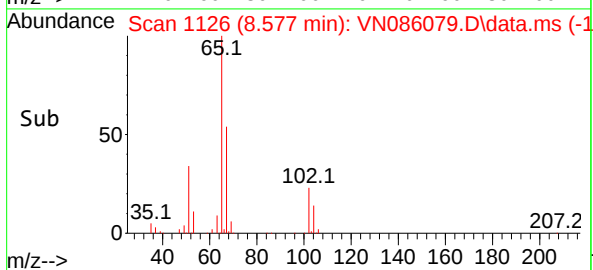
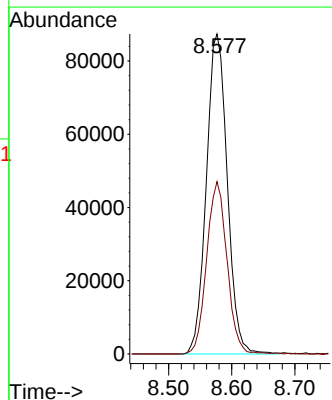
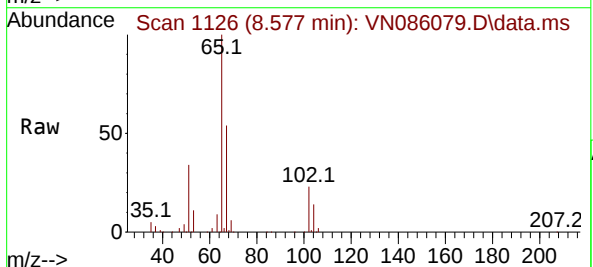
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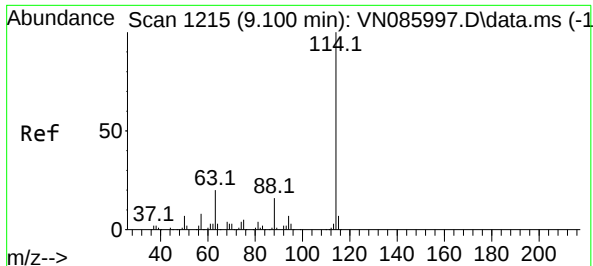
Tgt Ion: 56 Resp: 5698
Ion Ratio Lower Upper
56 100
69 169.4 28.0 42.0#
84 157.8 75.0 112.6#



#33
1,2-Dichloroethane-d4
Concen: 48.764 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

Tgt Ion: 65 Resp: 200858
Ion Ratio Lower Upper
65 100
67 52.4 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086079.D

Acq: 24 Mar 2025 18:01

Instrument :

MSVOA_N

ClientSampleId :

TP-2

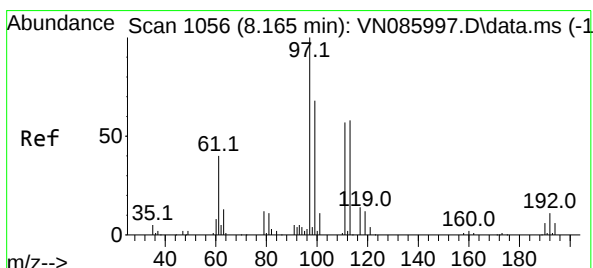
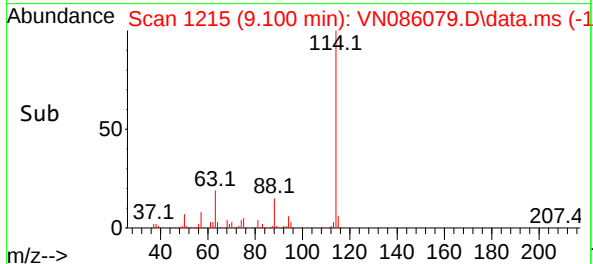
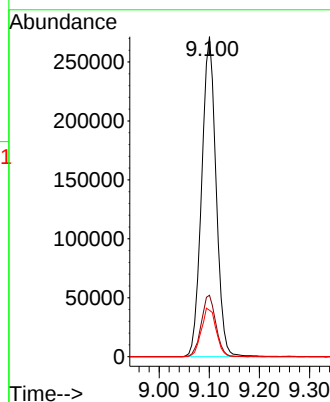
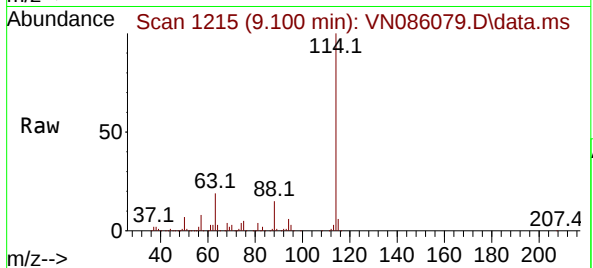
Tgt Ion:114 Resp: 542226

Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.6

88 14.5 0.0 32.6



#35

Dibromofluoromethane

Concen: 46.765 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086079.D

Acq: 24 Mar 2025 18:01

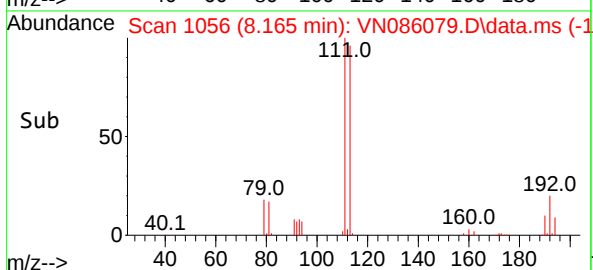
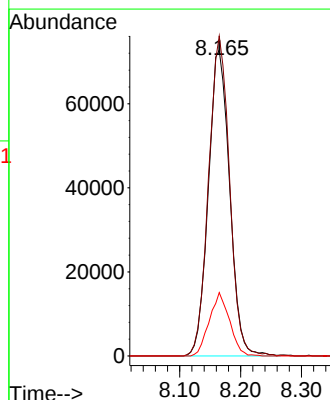
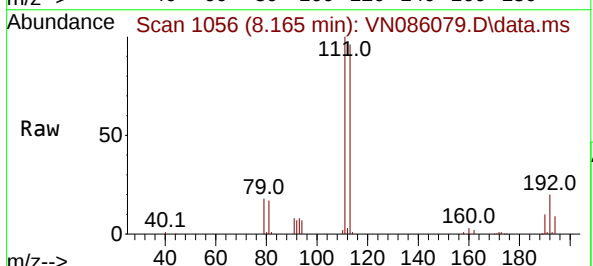
Tgt Ion:113 Resp: 176990

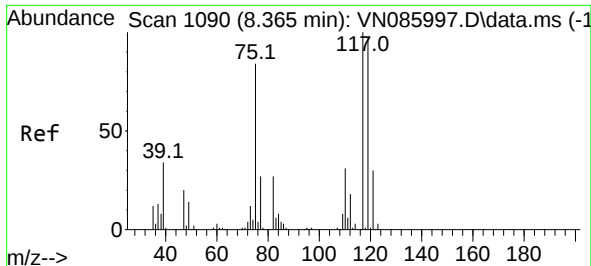
Ion Ratio Lower Upper

113 100

111 102.7 81.8 122.8

192 19.7 15.9 23.9

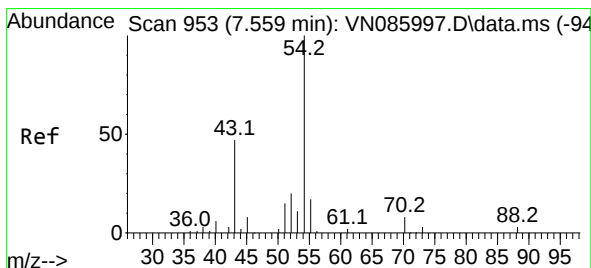
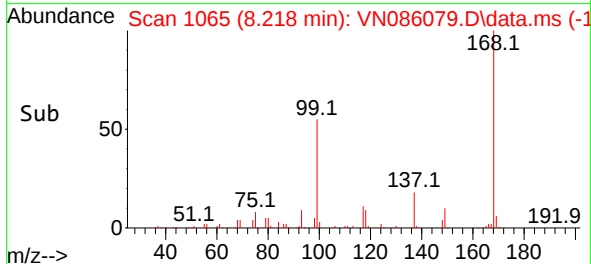
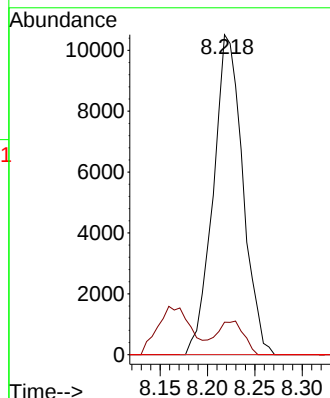
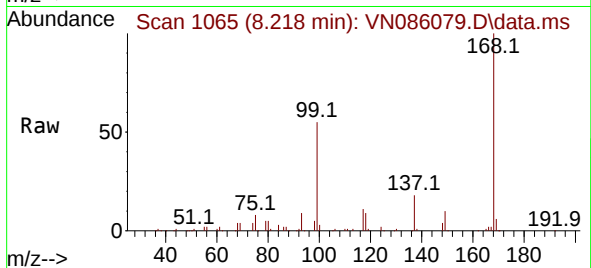




#36
1,1-Dichloropropene
Concen: 4.577 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

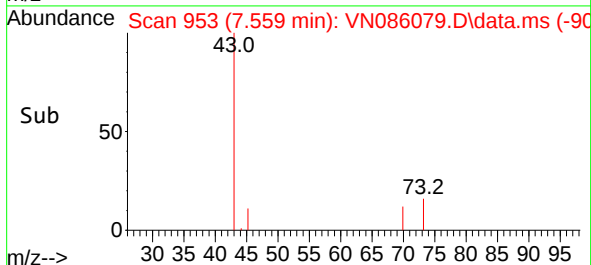
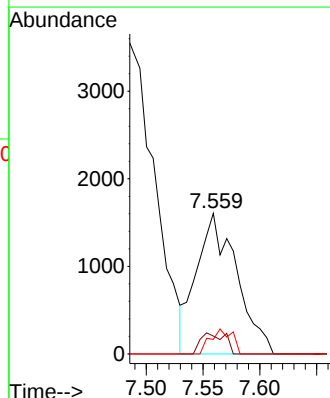
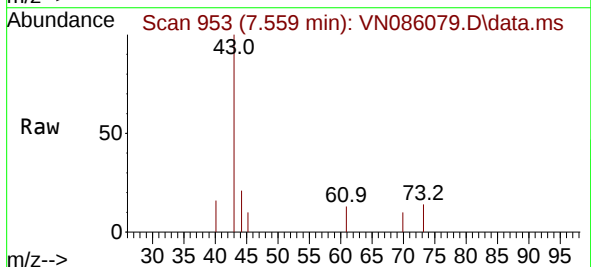
Instrument :
MSVOA_N
ClientSampleId :
TP-2

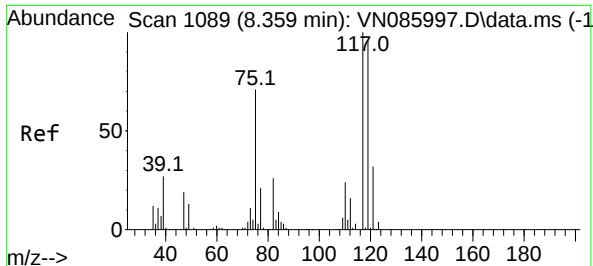
Tgt Ion: 75 Resp: 22808
Ion Ratio Lower Upper
75 100
110 9.4 17.8 53.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 0.937 ug/l
RT: 7.559 min Scan# 953
Delta R.T. -0.000 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

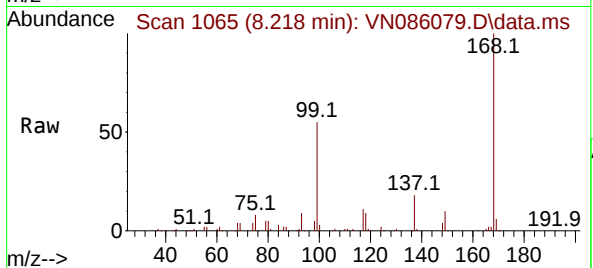
Tgt Ion: 43 Resp: 3941
Ion Ratio Lower Upper
43 100
61 9.1 13.0 19.4#
70 9.6 11.0 16.6#



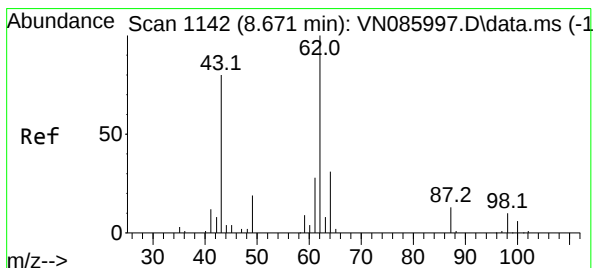
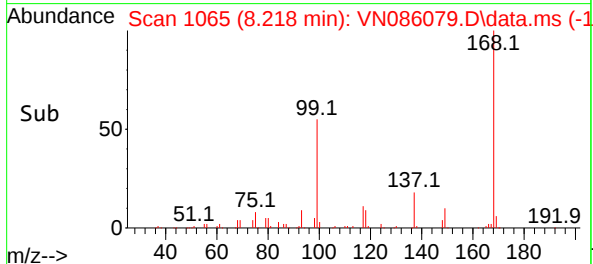
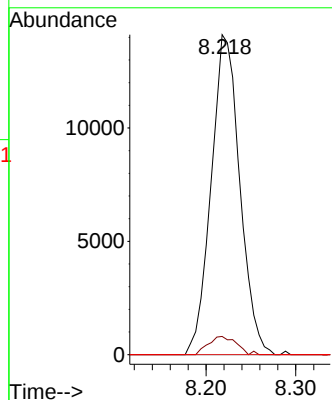


#38
Carbon Tetrachloride
Concen: 4.775 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

Instrument :
MSVOA_N
ClientSampleId :
TP-2

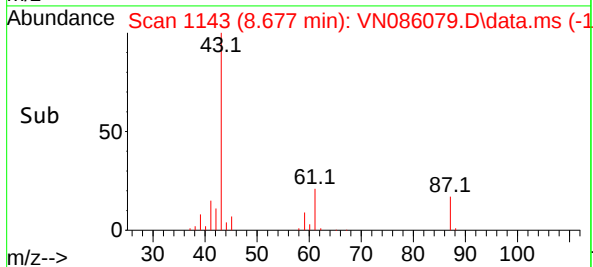
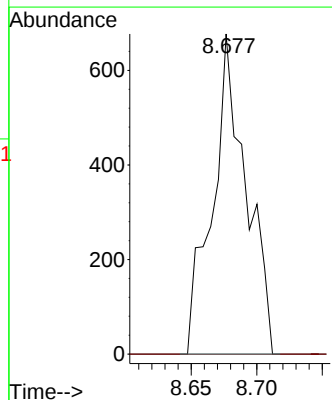
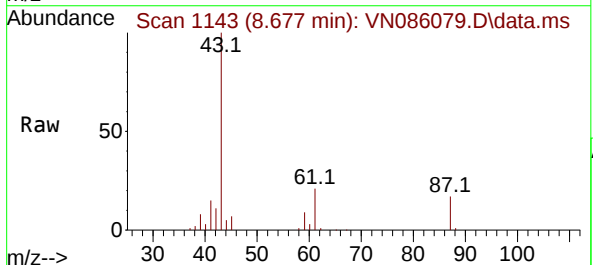


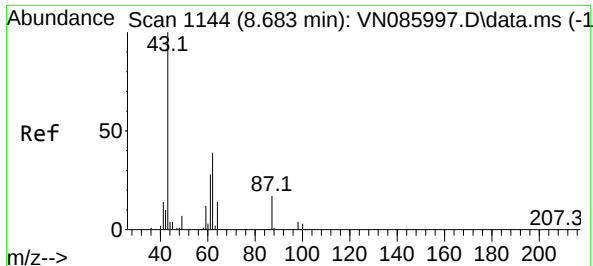
Tgt Ion:117 Resp: 31291
Ion Ratio Lower Upper
117 100
119 5.7 77.0 115.4#
121 0.0 25.6 38.4#



#42
1,2-Dichloroethane
Concen: 0.222 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

Tgt Ion: 62 Resp: 1212
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.6

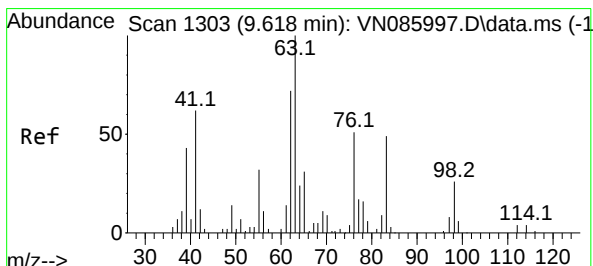
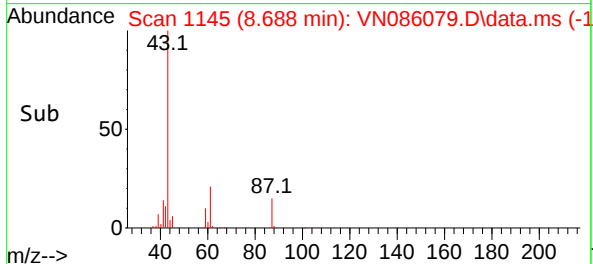
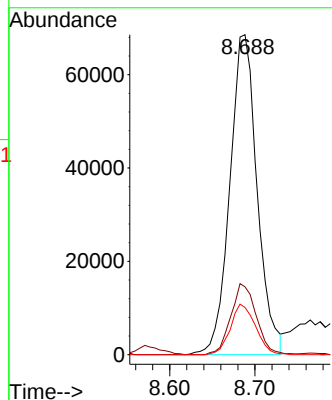
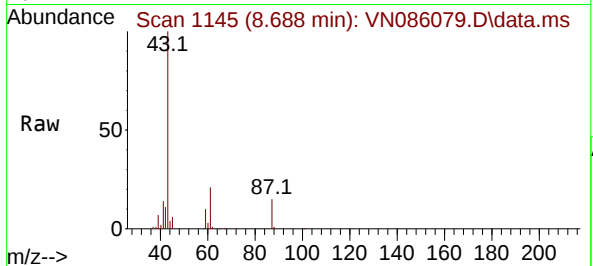




#43
Isopropyl Acetate
Concen: 16.788 ug/l
RT: 8.688 min Scan# 1144
Delta R.T. 0.006 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

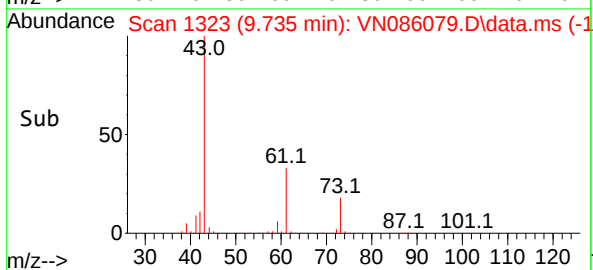
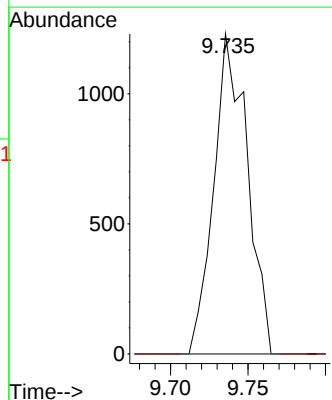
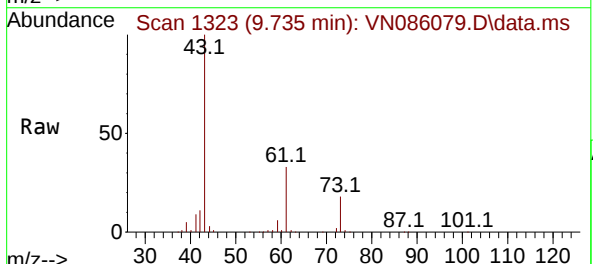
Instrument :
MSVOA_N
ClientSampleId :
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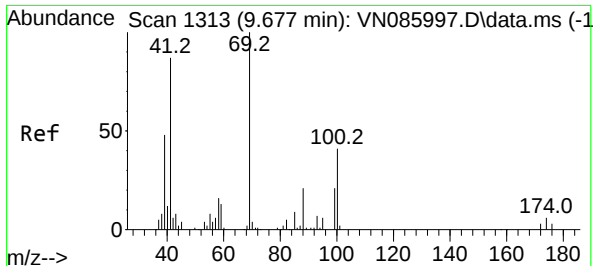
Tgt Ion: 43 Resp: 152942
Ion Ratio Lower Upper
43 100
61 20.7 25.0 37.6#
87 14.5 13.0 19.4



#45
1,2-Dichloropropane
Concen: 0.519 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

Tgt Ion: 63 Resp: 1846
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

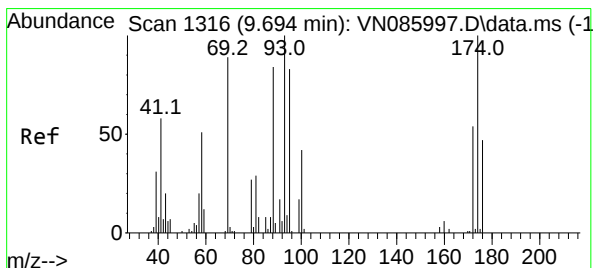
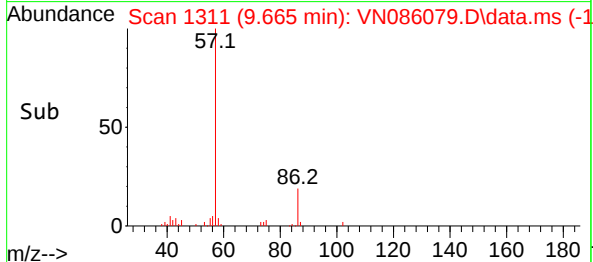
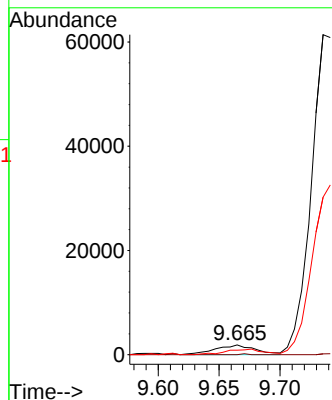
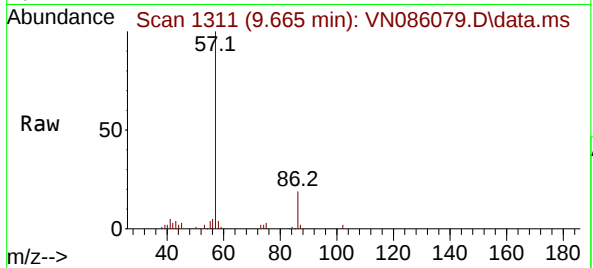




#48
Methyl methacrylate
Concen: 1.439 ug/l
RT: 9.665 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

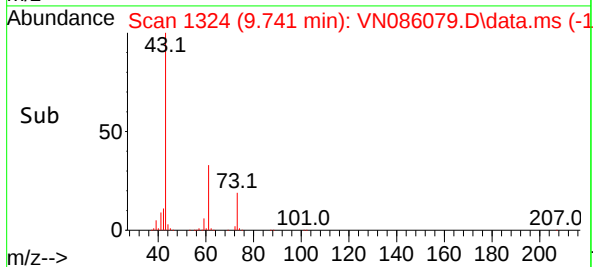
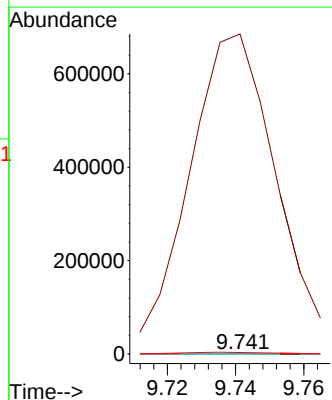
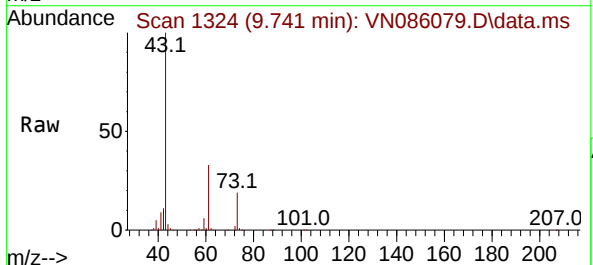
Instrument :
MSVOA_N
ClientSampleId :
TP-2

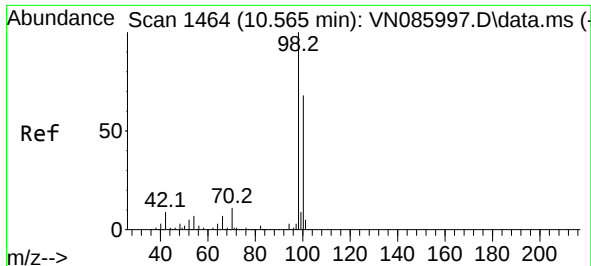
Tgt Ion: 41 Resp: 4327
Ion Ratio Lower Upper
41 100
69 1.4 83.1 124.7#
39 53.1 45.6 68.4



#49
1,4-Dioxane
Concen: 2.153 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.047 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

Tgt Ion: 88 Resp: 153
Ion Ratio Lower Upper
88 100
43 813665.4 21.7 32.5#
58 4513.1 50.4 75.6#

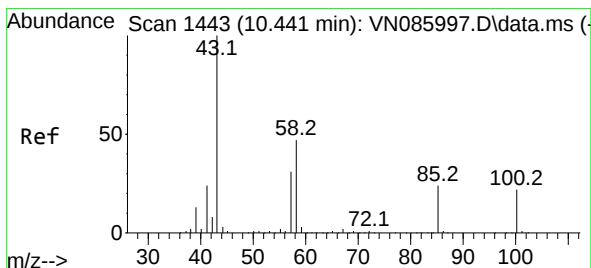
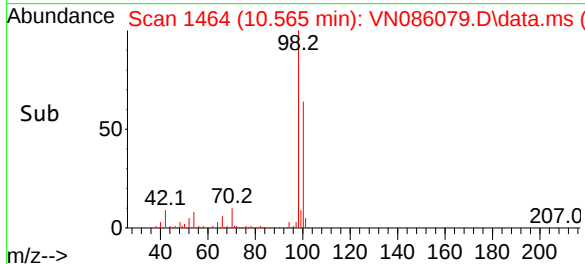
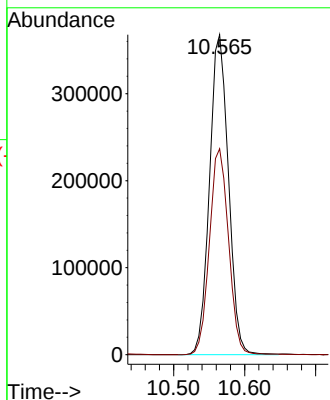
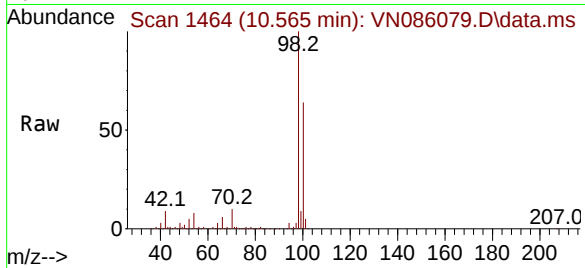




#50
Toluene-d8
Concen: 49.463 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

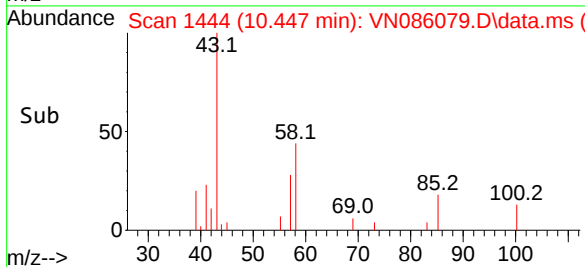
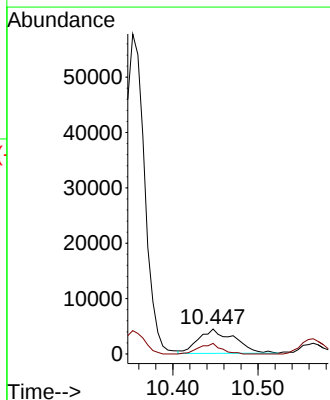
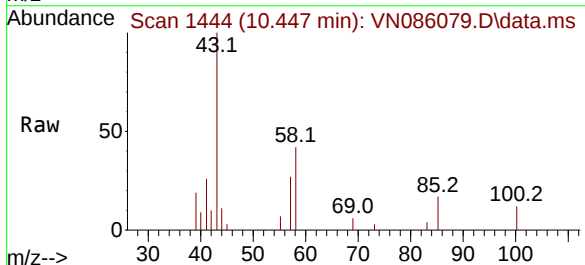
Instrument :
MSVOA_N
ClientSampleId :
TP-2

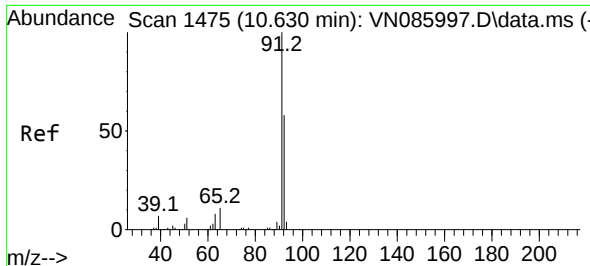
Tgt Ion: 98 Resp: 679414
Ion Ratio Lower Upper
98 100
100 65.1 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 3.204 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

Tgt Ion: 43 Resp: 12874
Ion Ratio Lower Upper
43 100
58 26.4 37.4 56.0#

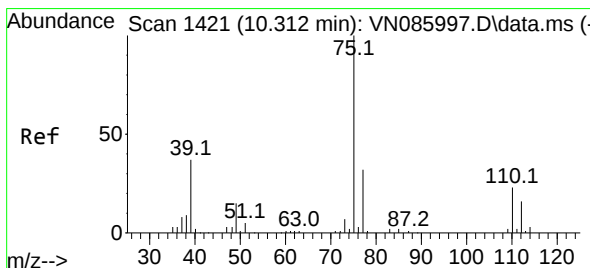
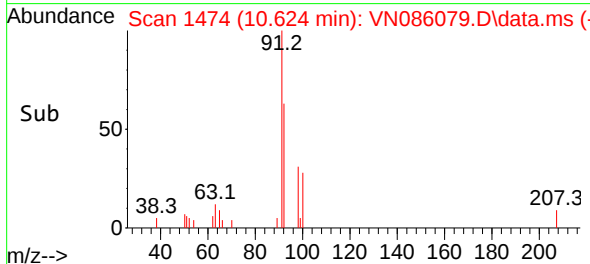
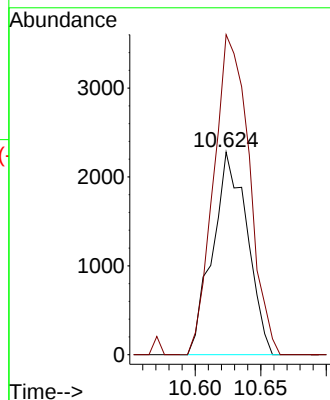
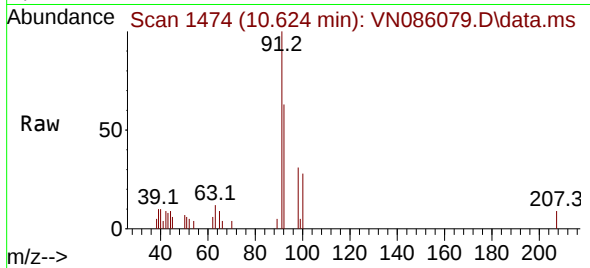




#52
Toluene
Concen: 0.435 ug/l
RT: 10.624 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

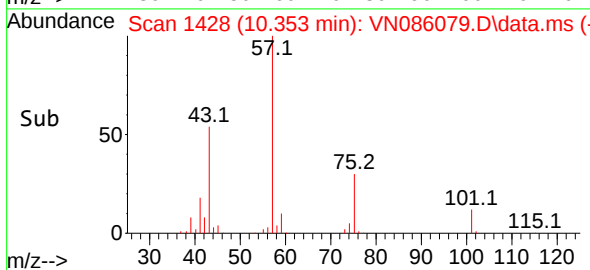
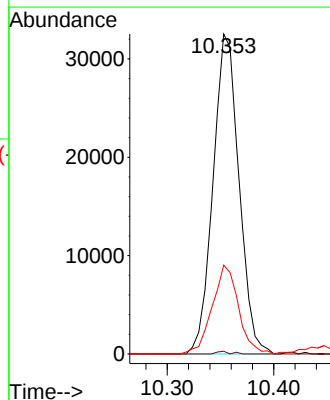
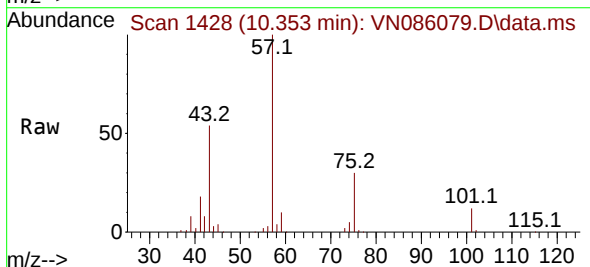
Instrument :
MSVOA_N
ClientSampleId :
TP-2

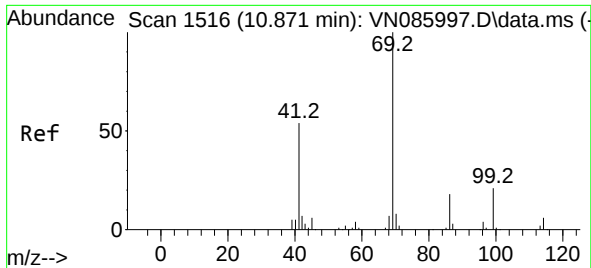
Tgt Ion: 92 Resp: 4175
Ion Ratio Lower Upper
92 100
91 162.5 136.2 204.4



#54
cis-1,3-Dichloropropene
Concen: 9.166 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

Tgt Ion: 75 Resp: 54925
Ion Ratio Lower Upper
75 100
77 0.8 25.3 37.9#
39 27.8 29.6 44.4#

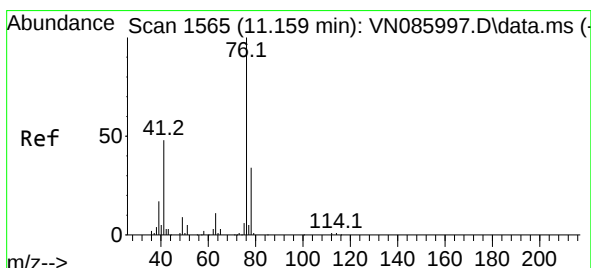
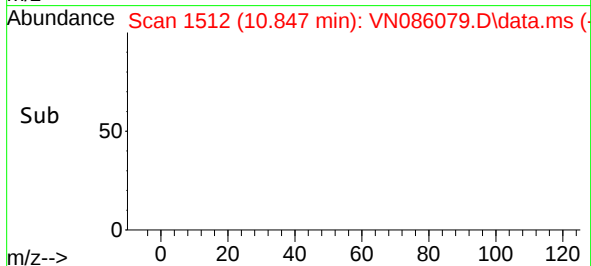
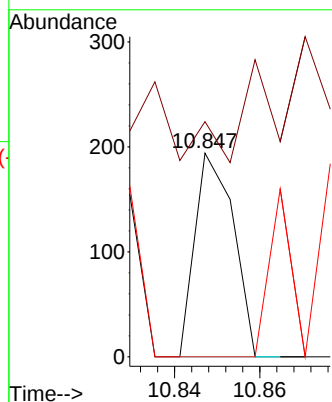
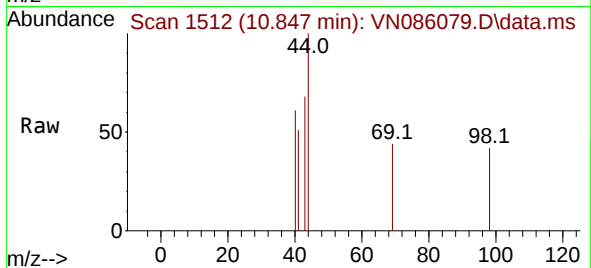




#56
Ethyl methacrylate
Concen: 0.213 ug/l
RT: 10.847 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

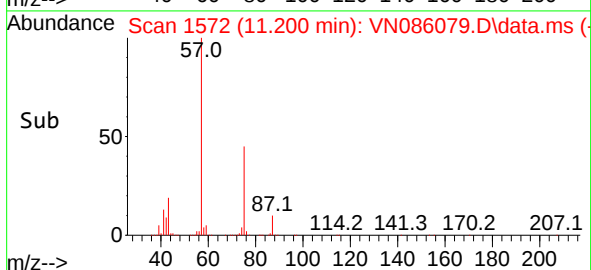
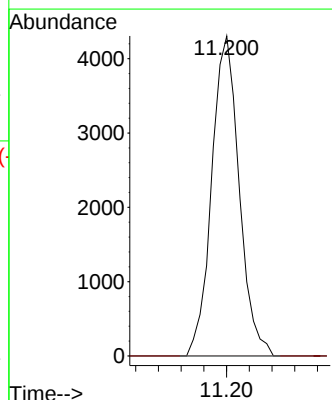
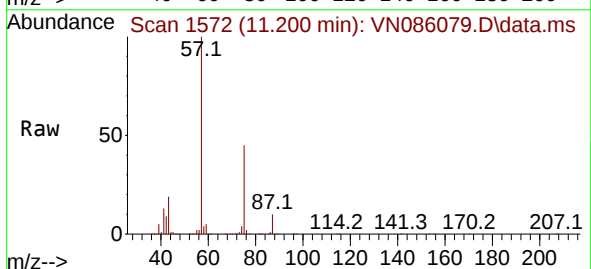
Instrument :
MSVOA_N
ClientSampleId :
TP-2

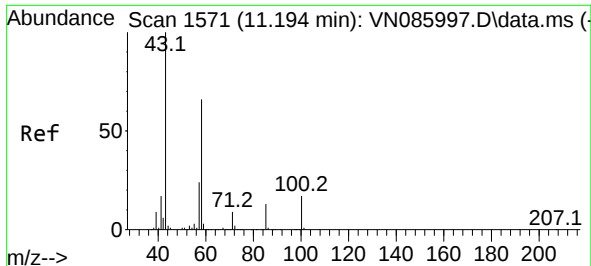
Tgt Ion: 69 Resp: 121
Ion Ratio Lower Upper
69 100
41 0.0 41.6 62.4#
39 0.0 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 1.163 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

Tgt Ion: 76 Resp: 7240
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

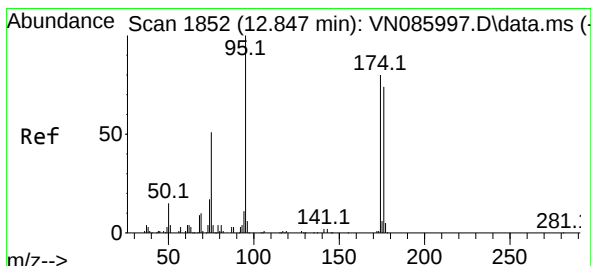
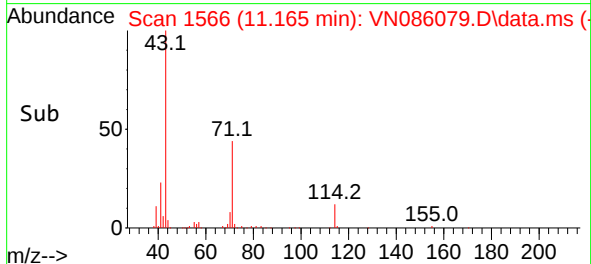
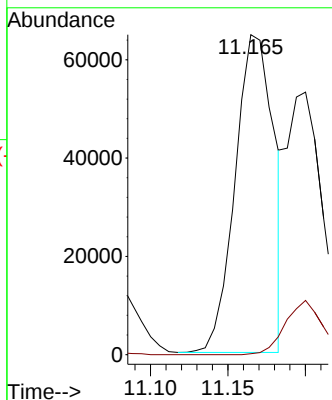
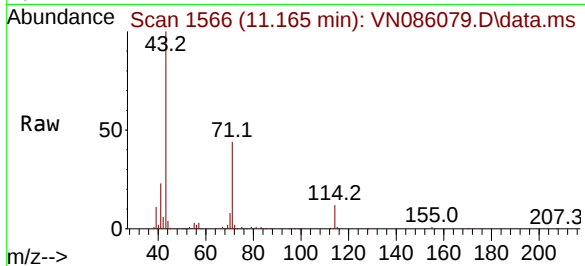




#59
2-Hexanone
Concen: 38.518 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. -0.030 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

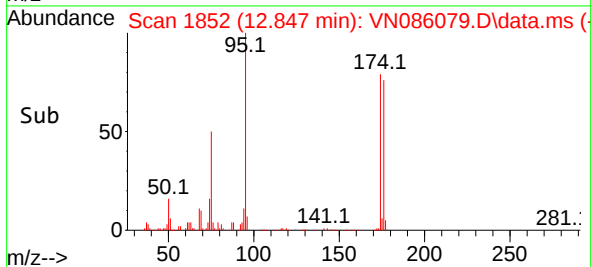
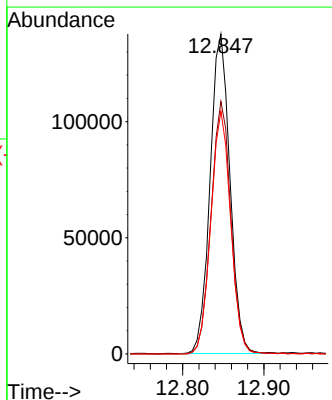
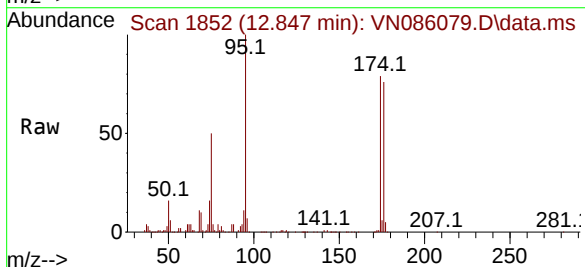
Instrument :
MSVOA_N
ClientSampleId :
TP-2

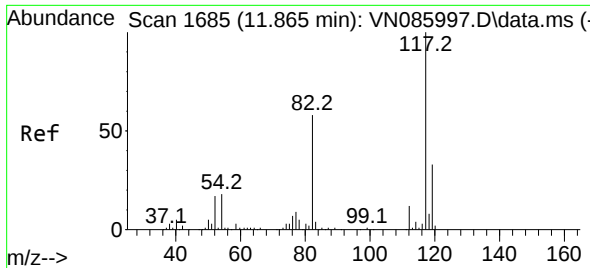
Tgt Ion: 43 Resp: 112742
Ion Ratio Lower Upper
43 100
58 0.0 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 47.711 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

Tgt Ion: 95 Resp: 233717
Ion Ratio Lower Upper
95 100
174 79.0 0.0 156.8
176 75.8 0.0 152.2

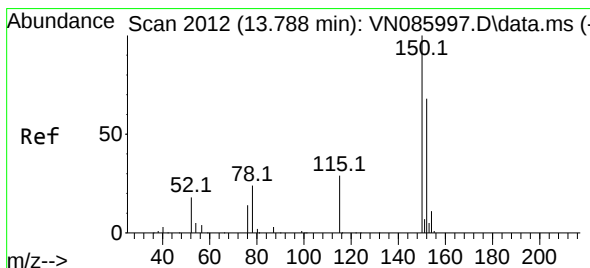
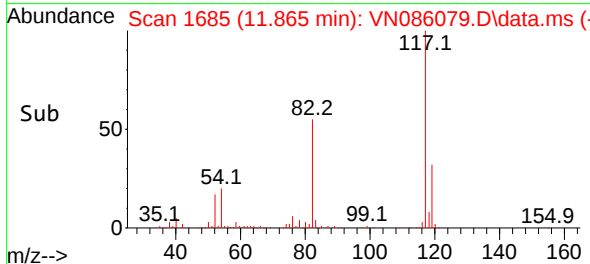
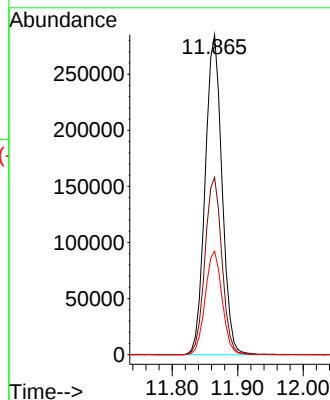
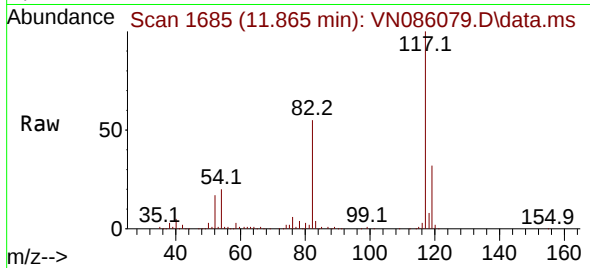




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

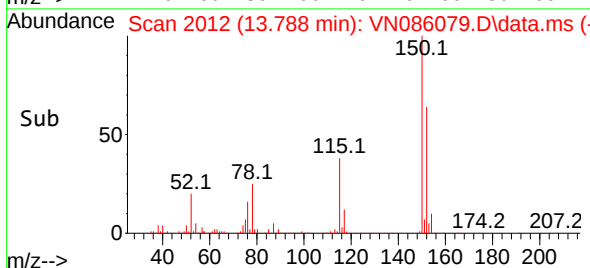
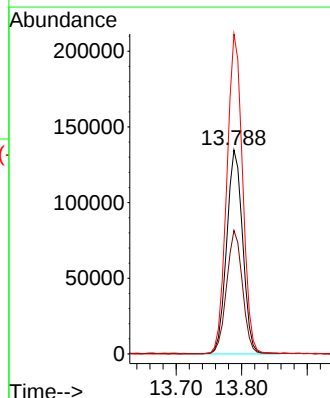
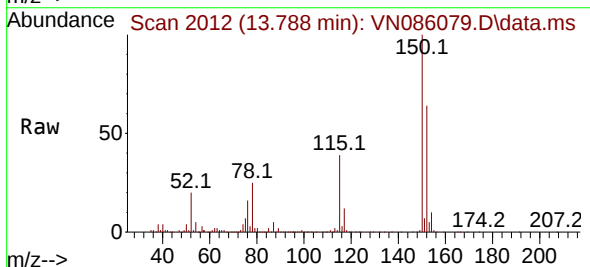
Instrument :
MSVOA_N
ClientSampleId :
TP-2

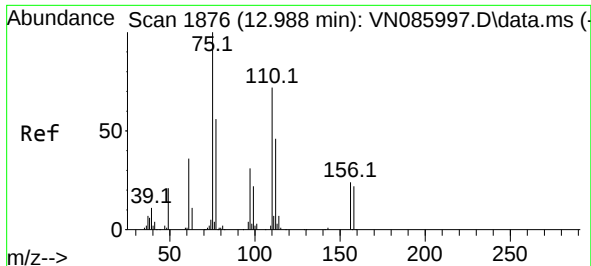
Tgt Ion:117 Resp: 509171
Ion Ratio Lower Upper
117 100
82 55.4 46.7 70.1
119 32.4 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

Tgt Ion:152 Resp: 228374
Ion Ratio Lower Upper
152 100
115 59.6 31.1 93.2
150 154.7 0.0 359.6

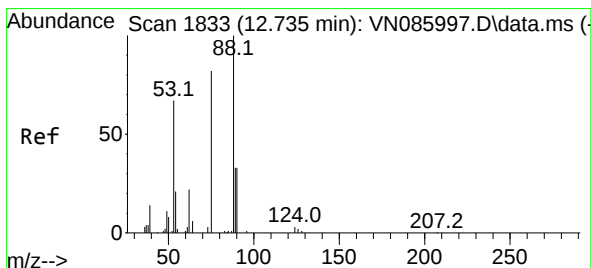
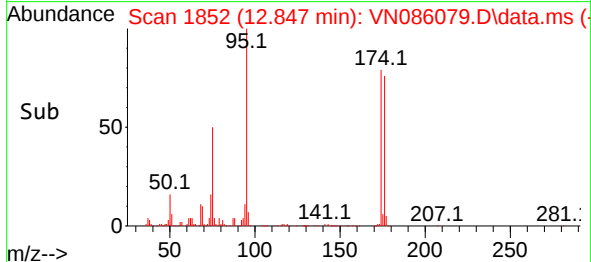
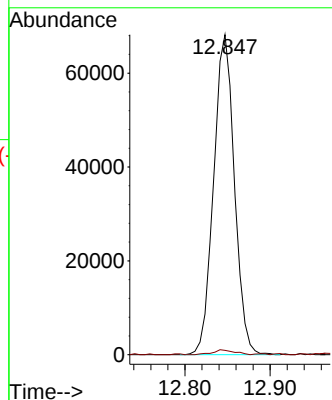
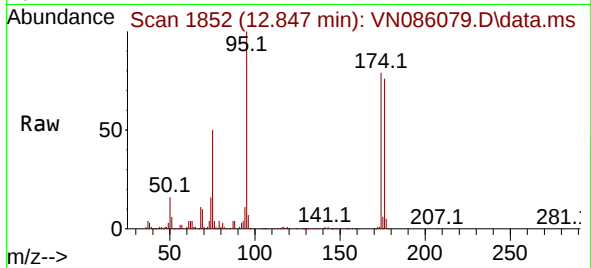




#76
1,2,3-Trichloropropane
Concen: 22.654 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

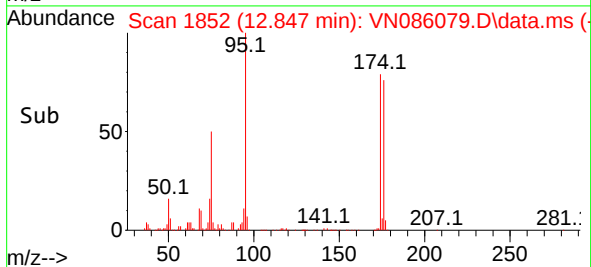
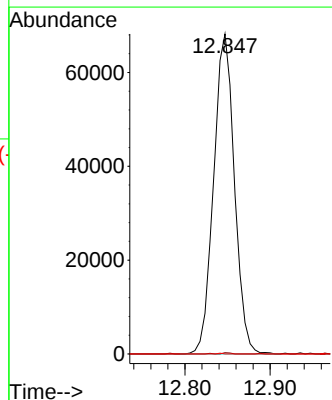
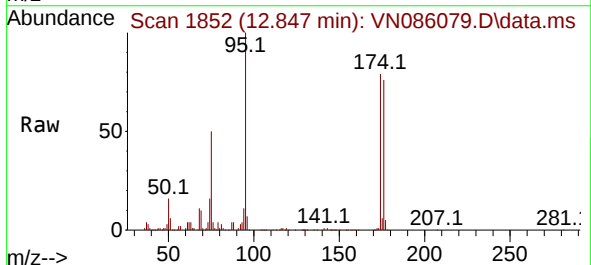
Instrument :
MSVOA_N
ClientSampleId :
TP-2

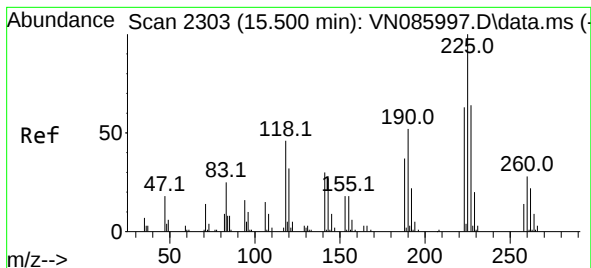
Tgt Ion: 75 Resp: 115827
Ion Ratio Lower Upper
75 100
77 1.6 83.7 251.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 59.894 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086079.D
Acq: 24 Mar 2025 18:01

Tgt Ion: 75 Resp: 115827
Ion Ratio Lower Upper
75 100
53 0.1 66.0 99.0#
89 0.0 36.9 55.3#





#94

Hexachlorobutadiene

Concen: 0.203 ug/l

RT: 15.488 min Scan# 2301

Delta R.T. -0.012 min

Lab File: VN086079.D

Acq: 24 Mar 2025 18:01

Instrument :

MSVOA_N

ClientSampleId :

TP-2

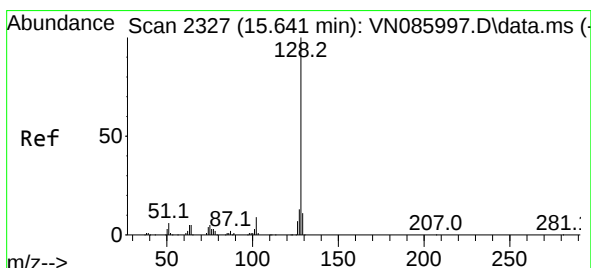
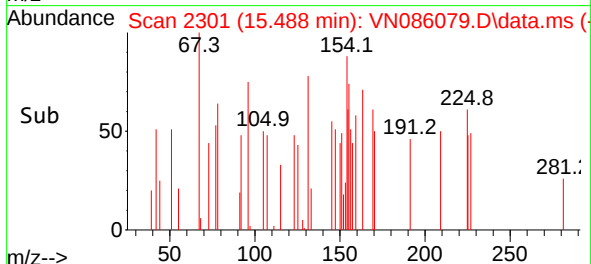
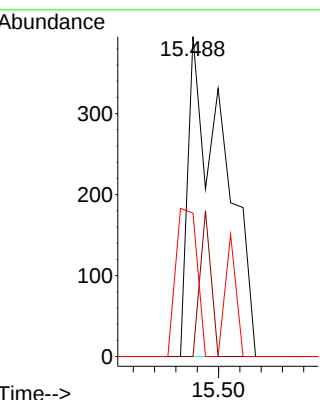
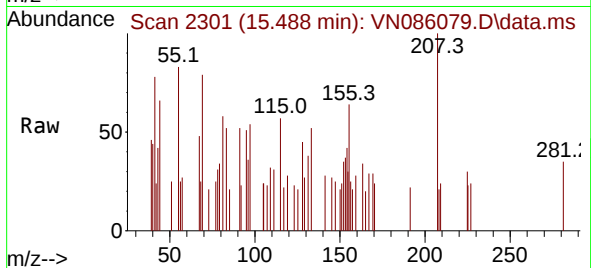
Tgt Ion:225 Resp: 461

Ion Ratio Lower Upper

225 100

223 13.7 31.3 93.9#

227 27.5 32.1 96.3#



#95

Naphthalene

Concen: 0.830 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN086079.D

Acq: 24 Mar 2025 18:01

Tgt Ion:128 Resp: 9419

Ion Ratio Lower Upper

128 100

127 7.6 10.2 15.4#

129 14.9 9.0 13.6#

