

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050323\
 Data File : VN077562.D
 Acq On : 03 May 2023 14:56
 Operator : JC\MD
 Sample : PB152533ZHE#07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152533ZHE#07

Quant Time: May 04 04:47:22 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:50:59 2023
 Response via : Initial Calibration

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

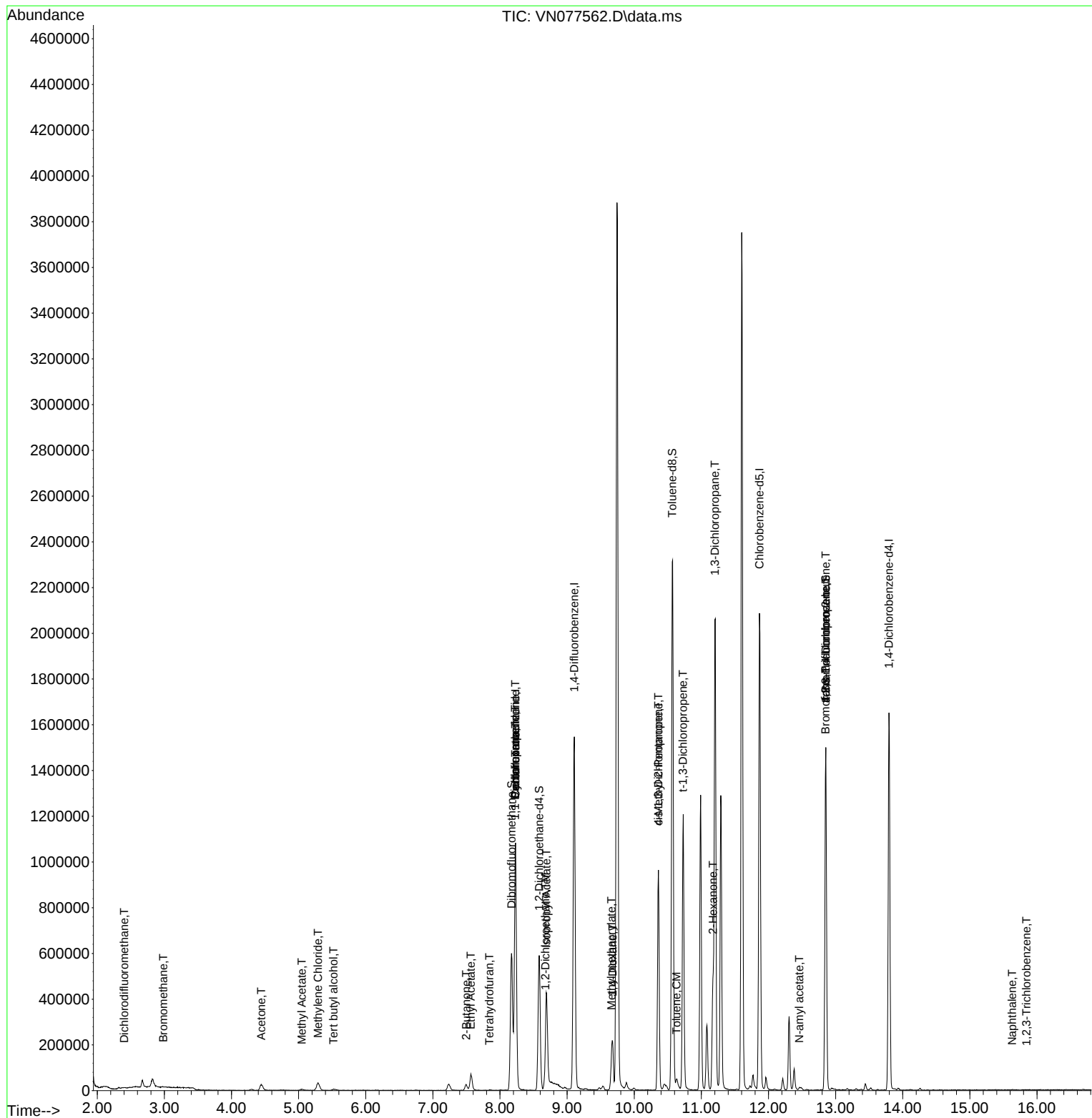
Internal Standards						
1) Pentafluorobenzene	8.231	168	736744	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1418415	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	1311883	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	455233	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	488701	50.834	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.660%	
35) Dibromofluoromethane	8.172	113	433188	50.812	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.620%	
50) Toluene-d8	10.566	98	1738628	53.212	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 106.420%	
62) 4-Bromofluorobenzene	12.854	95	548626	51.321	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 102.640%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.402	85	90	0.319	ug/l #	43
5) Bromomethane	2.984	94	2340	0.275	ug/l	83
11) Tert butyl alcohol	5.519	59	9638	6.245	ug/l #	91
16) Acetone	4.443	43	47538	15.543	ug/l	94
18) Methyl Acetate	5.048	43	9667	0.818	ug/l	97
20) Methylene Chloride	5.290	84	27838	2.870	ug/l #	90
25) 2-Butanone	7.495	43	35237	8.123	ug/l	96
29) Tetrahydrofuran	7.842	42	2060	0.758	ug/l #	50
31) Cyclohexane	8.231	56	16802	1.234	ug/l #	2
36) 1,1-Dichloropropene	8.225	75	62295	5.058	ug/l #	49
37) Ethyl Acetate	7.566	43	95167	10.168	ug/l	97
38) Carbon Tetrachloride	8.231	117	82180	6.047	ug/l #	16
42) 1,2-Dichloroethane	8.678	62	3835	0.298	ug/l	78
43) Isopropyl Acetate	8.689	43	507758	31.360	ug/l #	86
48) Methyl methacrylate	9.660	41	13099	1.777	ug/l #	32
49) 1,4-Dioxane	9.678	88	131	0.709	ug/l #	1
51) 4-Methyl-2-Pentanone	10.360	43	314549	33.121	ug/l #	42
52) Toluene	10.630	92	19665	0.800	ug/l	92
53) t-1,3-Dichloropropene	10.725	75	4651	0.333	ug/l #	87
54) cis-1,3-Dichloropropene	10.360	75	208988	13.745	ug/l #	62
57) 1,3-Dichloropropane	11.201	76	26477	1.682	ug/l #	43
59) 2-Hexanone	11.172	43	340317	49.298	ug/l #	19
71) Bromoform	12.848	173	1793	0.271	ug/l #	1
74) N-amyl acetate	12.460	43	5951	0.476	ug/l #	42
76) 1,2,3-Trichloropropane	12.854	75	285419	26.962	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	285419	76.172	ug/l #	15
95) Naphthalene	15.630	128	403	1.174	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.842	180	54	0.491	ug/l #	1

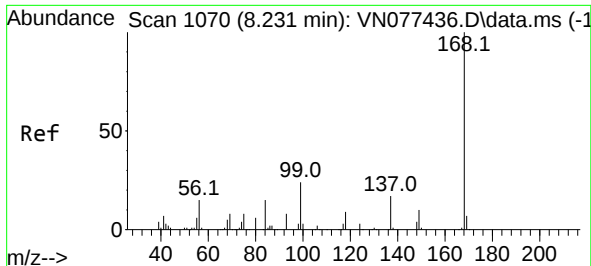
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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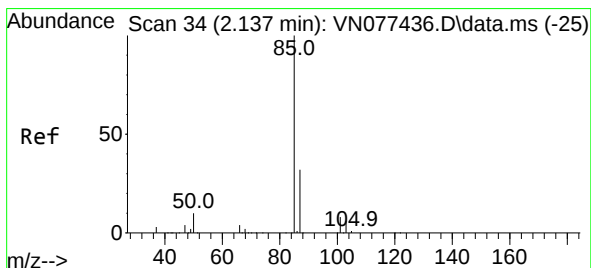
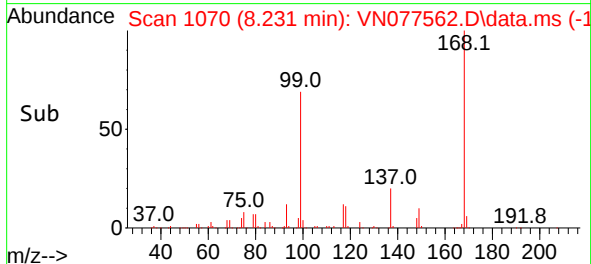
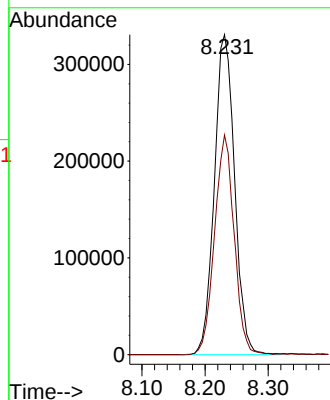
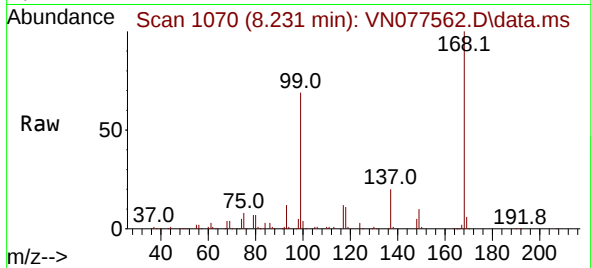




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

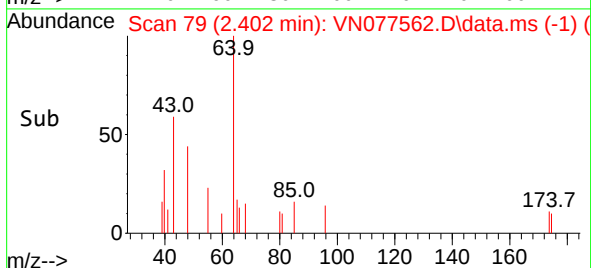
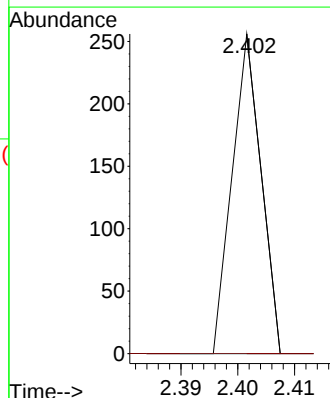
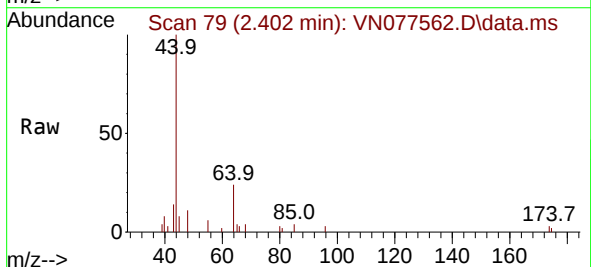
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#07

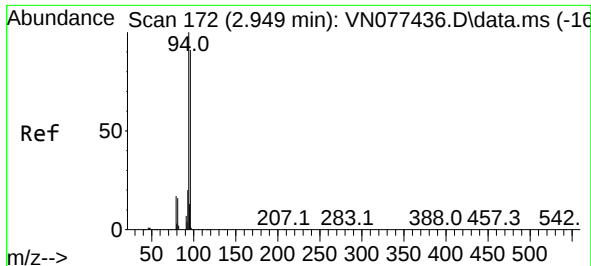
Tgt Ion:168 Resp: 736744
Ion Ratio Lower Upper
168 100
99 68.7 53.0 79.6



#2
Dichlorodifluoromethane
Concen: 0.319 ug/l
RT: 2.402 min Scan# 79
Delta R.T. 0.265 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

Tgt Ion: 85 Resp: 90
Ion Ratio Lower Upper
85 100
87 0.0 15.8 47.4#

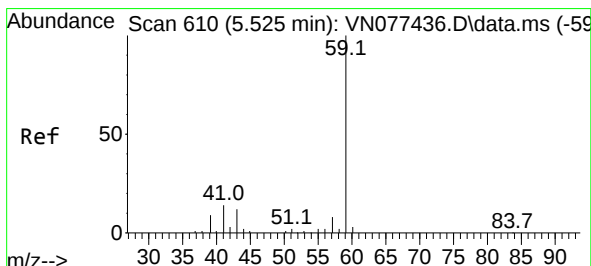
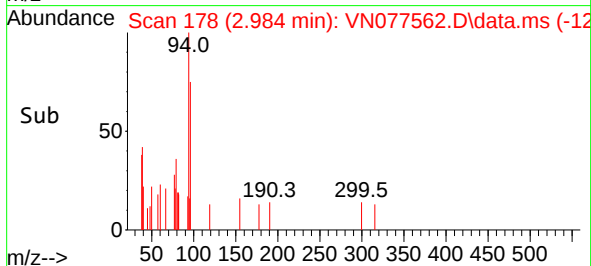
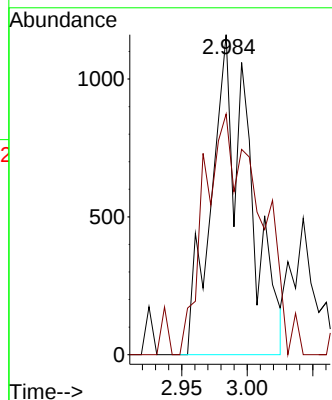
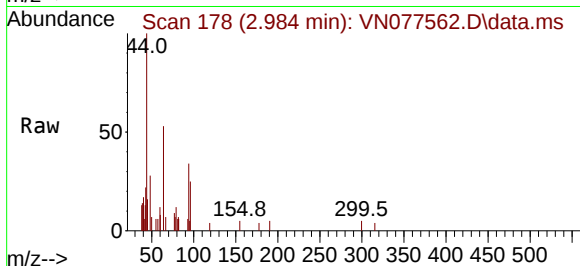




#5
Bromomethane
Concen: 0.275 ug/l
RT: 2.984 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

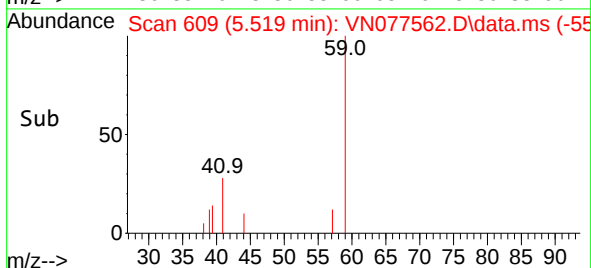
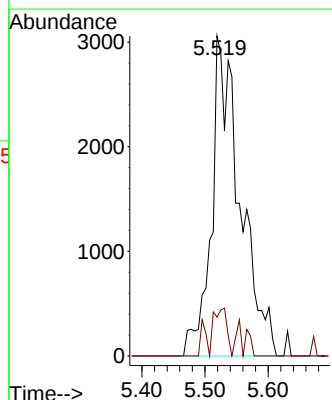
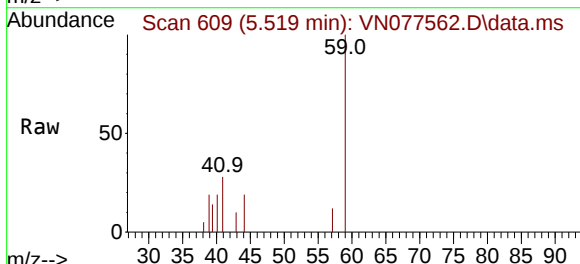
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#07

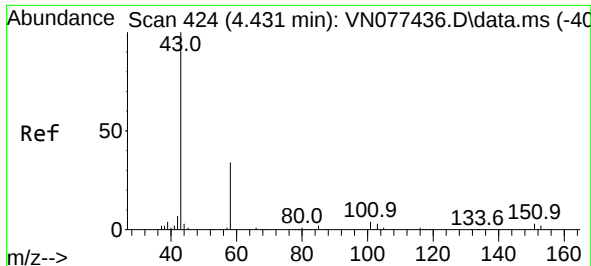
Tgt Ion: 94 Resp: 2340
Ion Ratio Lower Upper
94 100
96 75.2 73.1 109.7



#11
Tert butyl alcohol
Concen: 6.245 ug/l
RT: 5.519 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

Tgt Ion: 59 Resp: 9638
Ion Ratio Lower Upper
59 100
57 6.9 8.2 12.4#

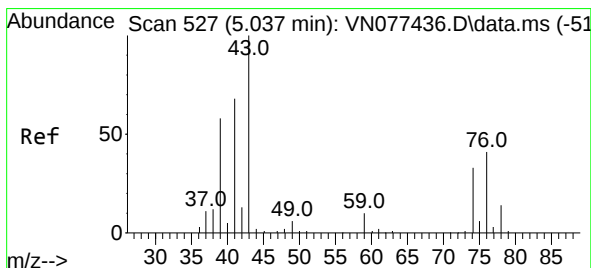
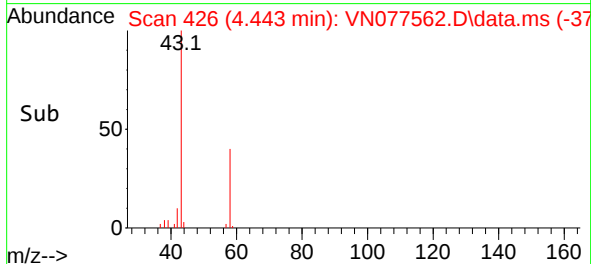
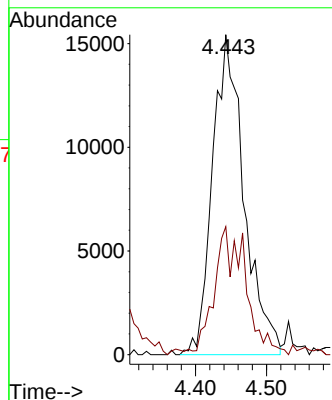
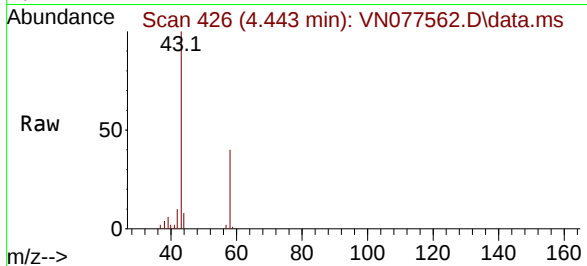




#16
Acetone
Concen: 15.543 ug/l
RT: 4.443 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

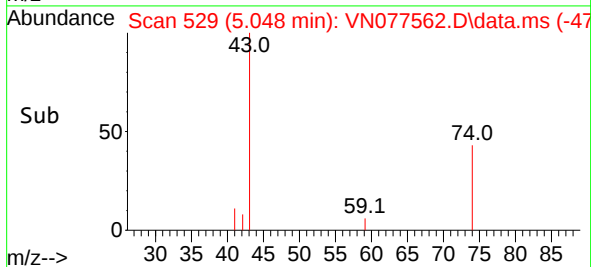
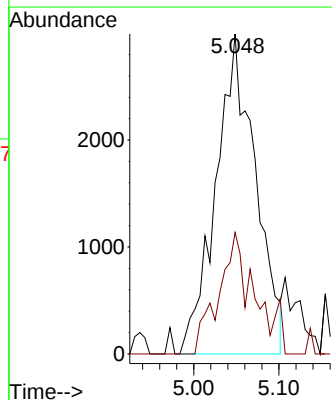
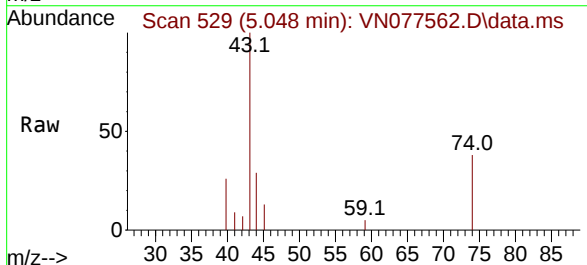
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#07

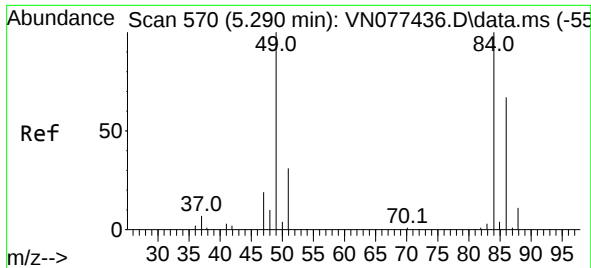
Tgt Ion: 43 Resp: 47538
Ion Ratio Lower Upper
43 100
58 38.6 28.0 42.0



#18
Methyl Acetate
Concen: 0.818 ug/l
RT: 5.048 min Scan# 529
Delta R.T. 0.012 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

Tgt Ion: 43 Resp: 9667
Ion Ratio Lower Upper
43 100
74 31.4 26.2 39.4

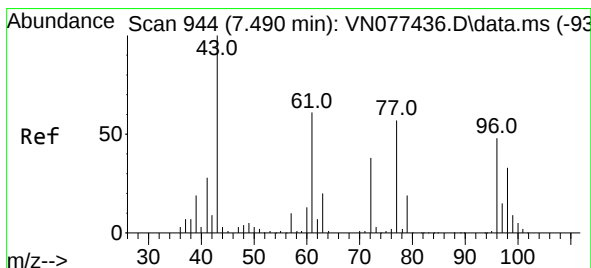
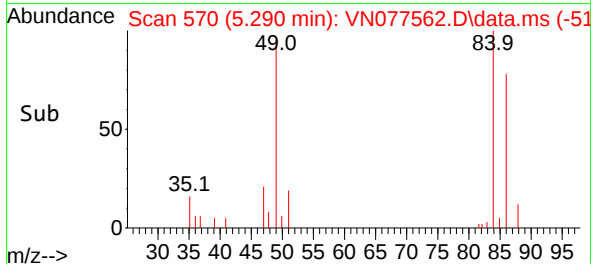
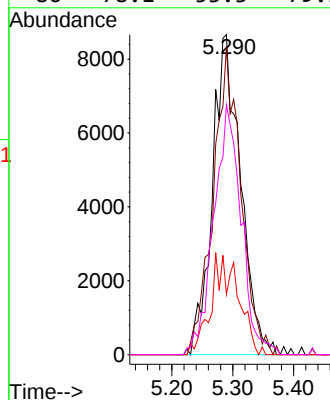
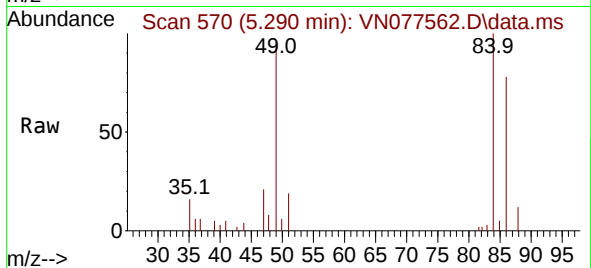




#20
Methylene Chloride
Concen: 2.870 ug/l
RT: 5.290 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

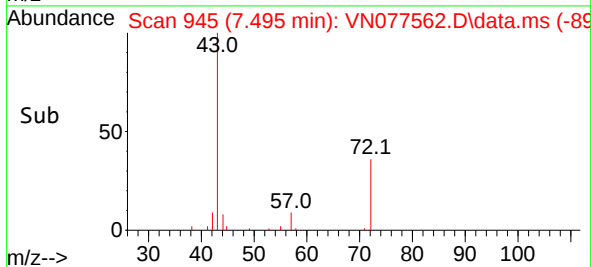
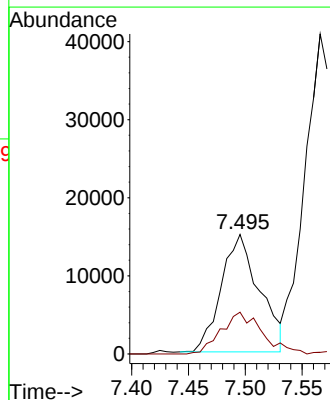
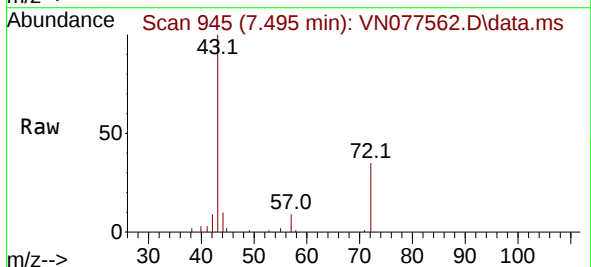
Instrument :
MSVOA_N
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PB152533ZHE#07

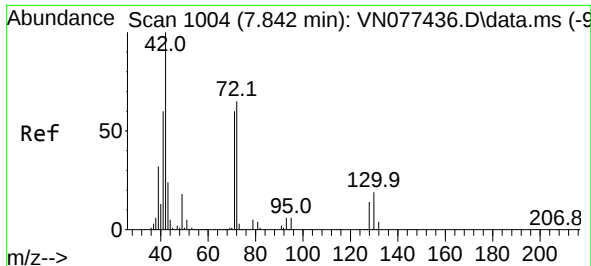
Tgt Ion: 84	Resp: 27838
Ion Ratio	Lower Upper
84 100	
49 96.4	79.7 119.5
51 18.8	25.2 37.8#
86 78.1	53.3 79.9



#25
2-Butanone
Concen: 8.123 ug/l
RT: 7.495 min Scan# 945
Delta R.T. 0.006 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

Tgt Ion: 43	Resp: 35237
Ion Ratio	Lower Upper
43 100	
72 35.5	30.2 45.2





#29

Tetrahydrofuran

Concen: 0.758 ug/l

RT: 7.842 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN077562.D

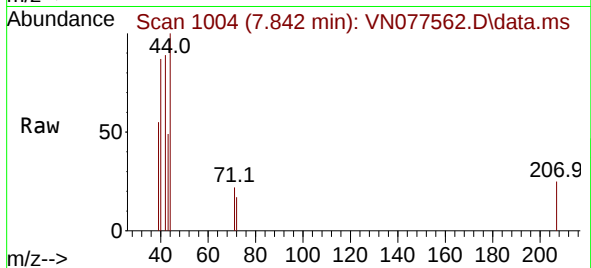
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Instrument :

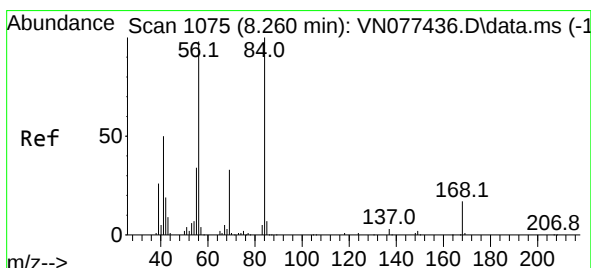
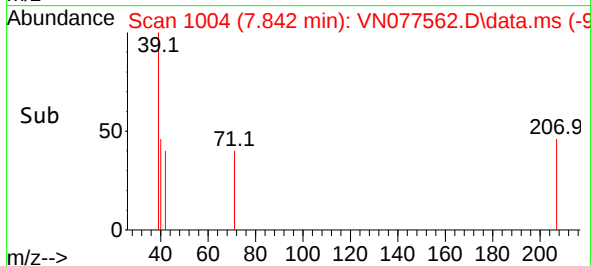
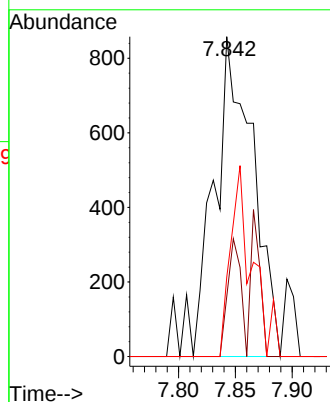
MSVOA_N

ClientSampleId :

PB152533ZHE#07



Tgt Ion:	42	Resp:	2060
Ion	Ratio	Lower	Upper
42	100		
72	12.3	49.8	74.6#
71	33.0	47.4	71.2#



#31

Cyclohexane

Concen: 1.234 ug/l

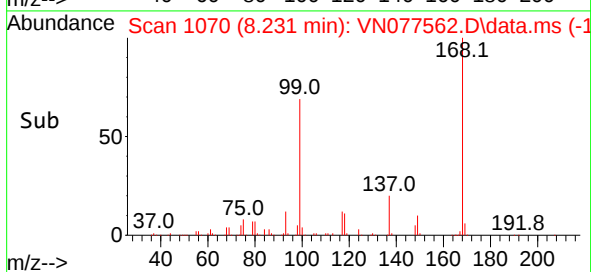
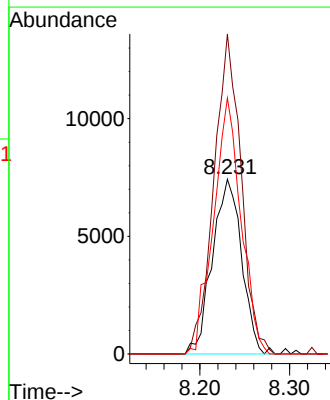
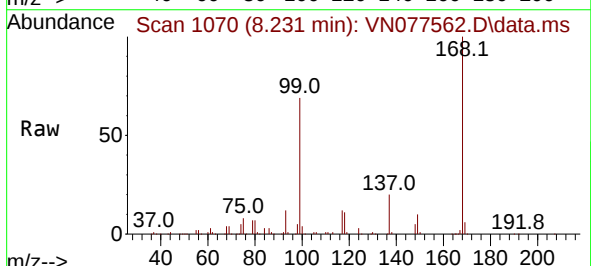
RT: 8.231 min Scan# 1070

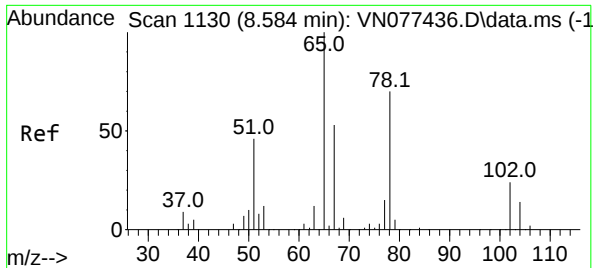
Delta R.T. -0.029 min

Lab File: VN077562.D

Acq: 03 May 2023 14:56

Tgt Ion:	56	Resp:	16802
Ion	Ratio	Lower	Upper
56	100		
69	183.1	26.8	40.2#
84	146.5	81.8	122.6#





#33

1,2-Dichloroethane-d4

Concen: 50.834 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN077562.D

Acq: 03 May 2023 14:56

Instrument :

MSVOA_N

ClientSampleId :

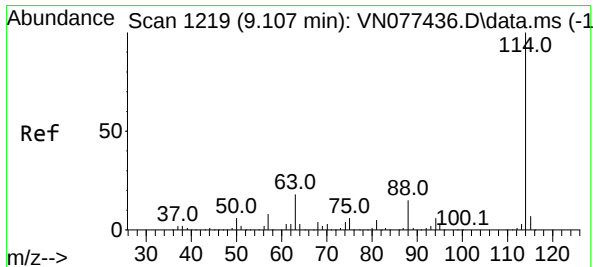
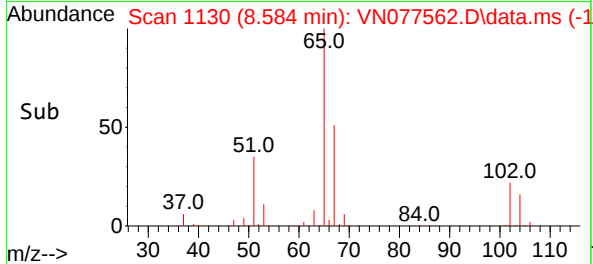
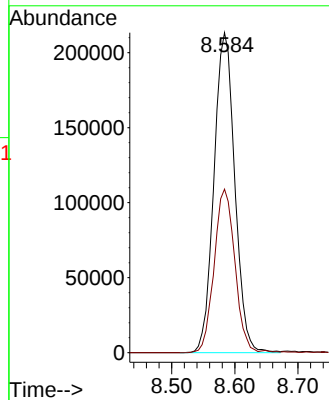
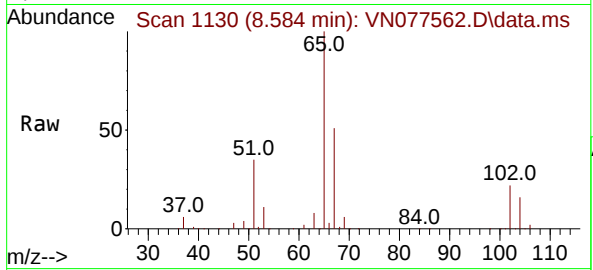
PB152533ZHE#07

Tgt Ion: 65 Resp: 488701

Ion Ratio Lower Upper

65 100

67 50.6 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. 0.000 min

Lab File: VN077562.D

Acq: 03 May 2023 14:56

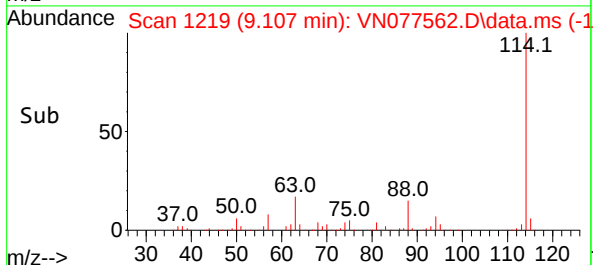
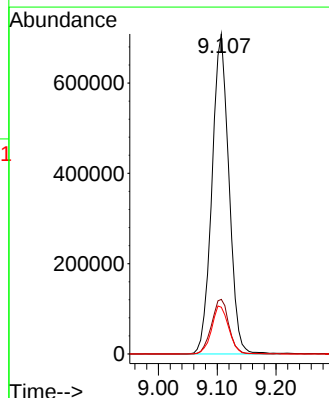
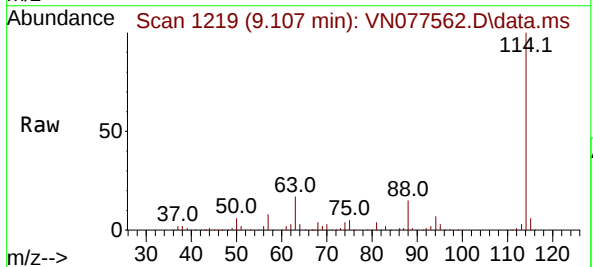
Tgt Ion: 114 Resp: 1418415

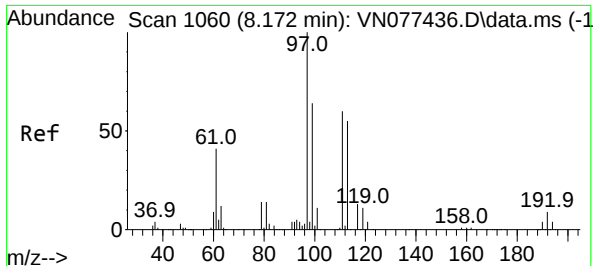
Ion Ratio Lower Upper

114 100

63 17.0 0.0 36.4

88 14.6 0.0 30.6





#35

Dibromofluoromethane

Concen: 50.812 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077562.D

Acq: 03 May 2023 14:56

Instrument :

MSVOA_N

ClientSampleId :

PB152533ZHE#07

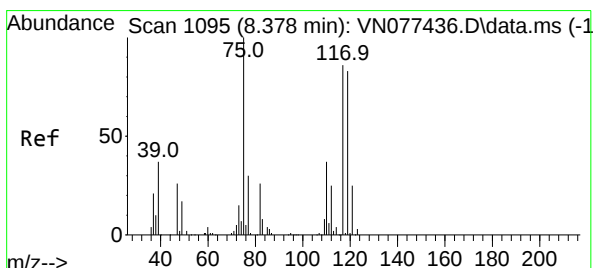
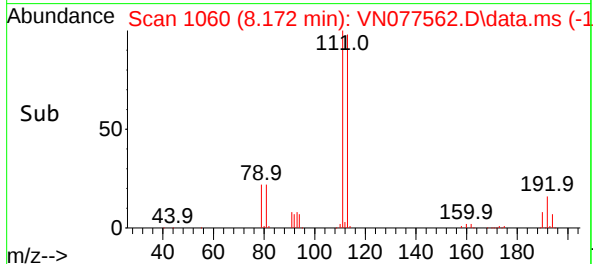
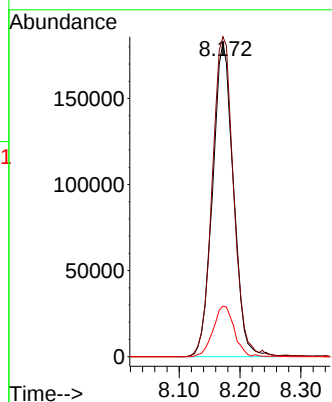
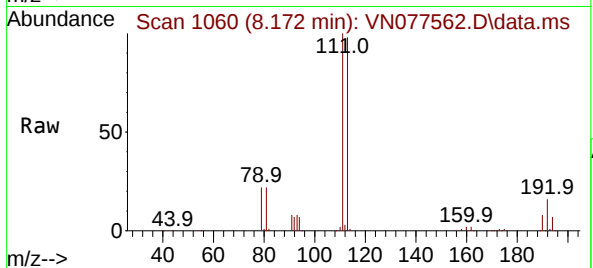
Tgt Ion:113 Resp: 433188

Ion Ratio Lower Upper

113 100

111 104.0 82.6 123.8

192 16.1 12.7 19.1



#36

1,1-Dichloropropene

Concen: 5.058 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.153 min

Lab File: VN077562.D

Acq: 03 May 2023 14:56

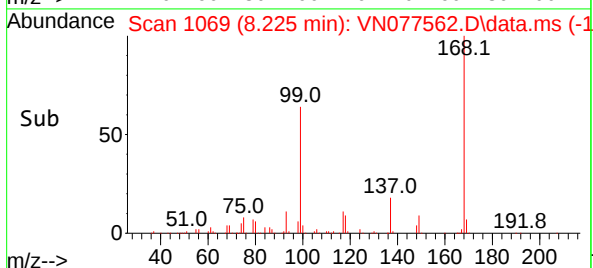
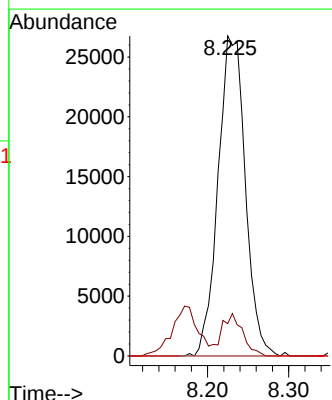
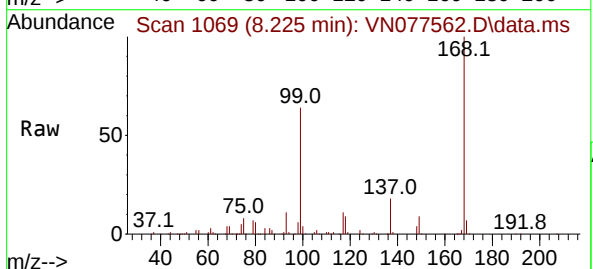
Tgt Ion: 75 Resp: 62295

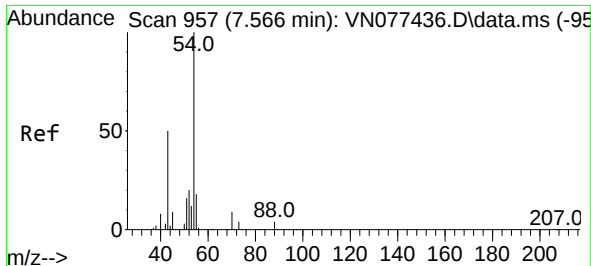
Ion Ratio Lower Upper

75 100

110 10.4 19.1 57.3#

77 0.0 25.0 37.4#

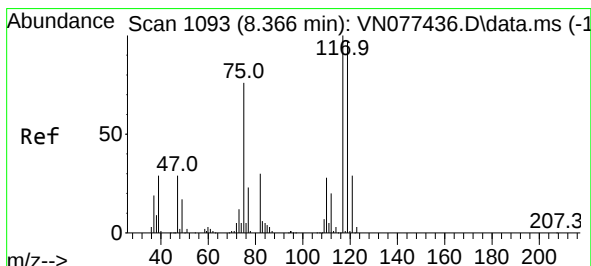
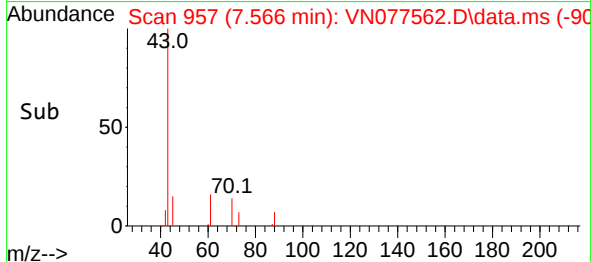
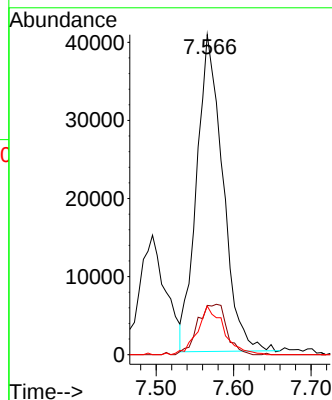
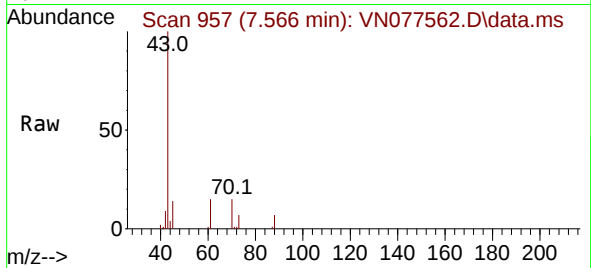




#37
Ethyl Acetate
Concen: 10.168 ug/l
RT: 7.566 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

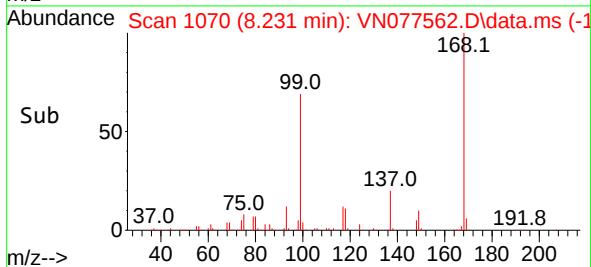
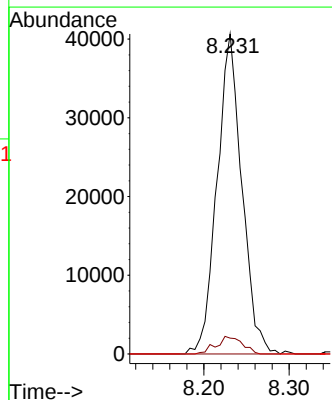
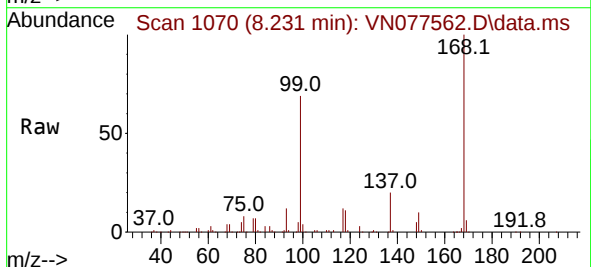
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#07

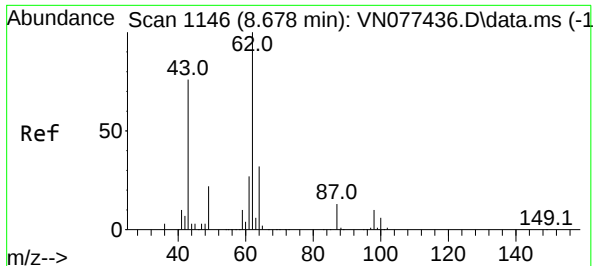
Tgt Ion: 43 Resp: 95167
Ion Ratio Lower Upper
43 100
61 17.6 13.2 19.8
70 15.5 11.3 16.9



#38
Carbon Tetrachloride
Concen: 6.047 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.135 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

Tgt Ion: 117 Resp: 82180
Ion Ratio Lower Upper
117 100
119 4.9 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.298 ug/l

RT: 8.678 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VN077562.D

Acq: 03 May 2023 14:56

Instrument :

MSVOA_N

ClientSampleId :

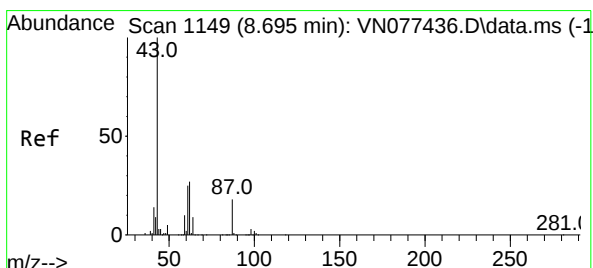
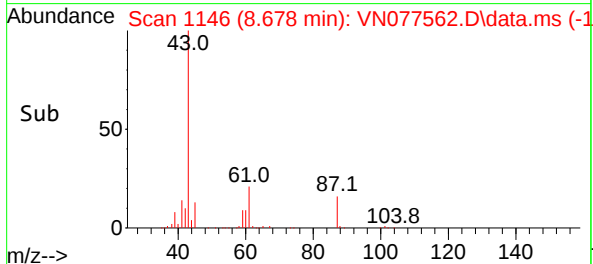
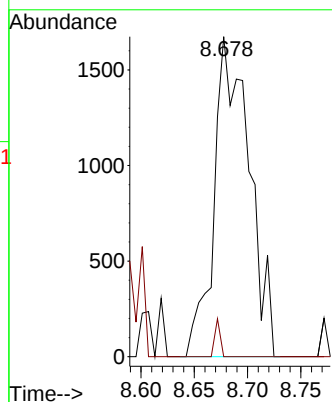
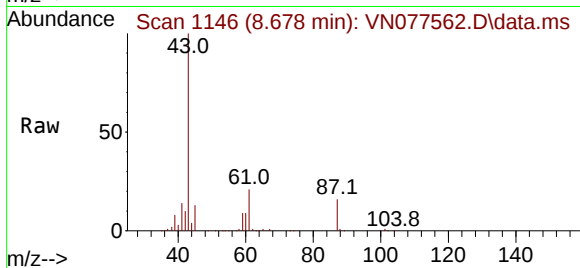
PB152533ZHE#07

Tgt Ion: 62 Resp: 3835

Ion Ratio Lower Upper

62 100

98 1.8 0.0 19.8



#43

Isopropyl Acetate

Concen: 31.360 ug/l

RT: 8.689 min Scan# 1148

Delta R.T. -0.006 min

Lab File: VN077562.D

Acq: 03 May 2023 14:56

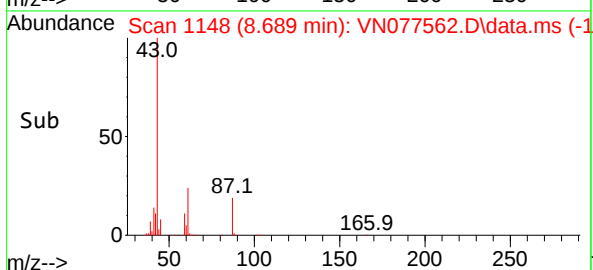
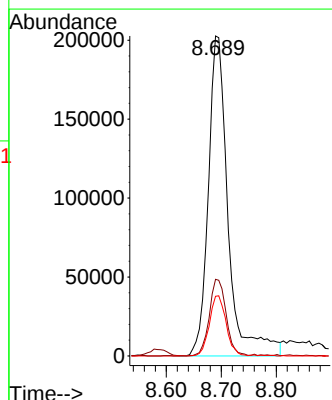
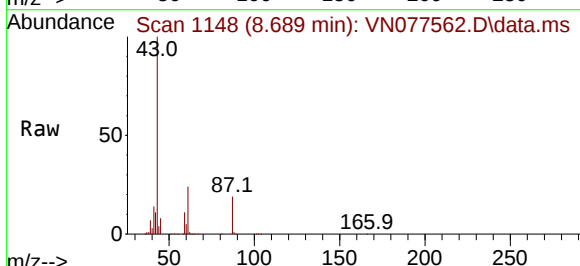
Tgt Ion: 43 Resp: 507758

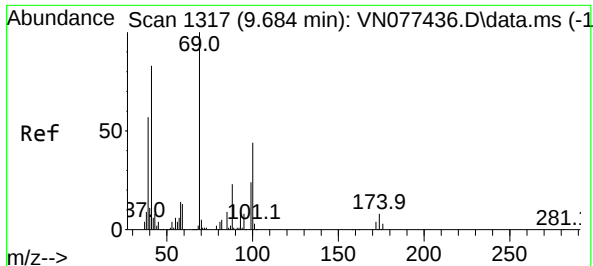
Ion Ratio Lower Upper

43 100

61 20.3 24.7 37.1#

87 15.9 14.6 21.8

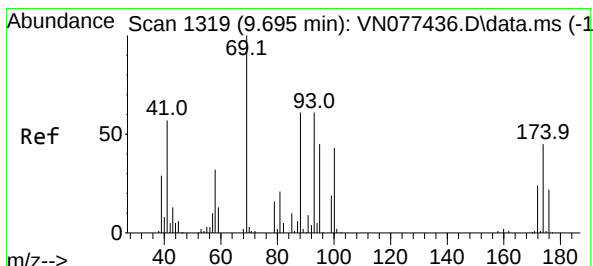
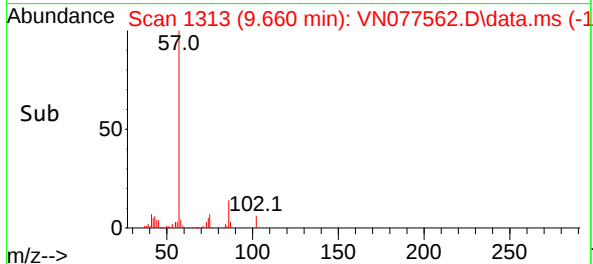
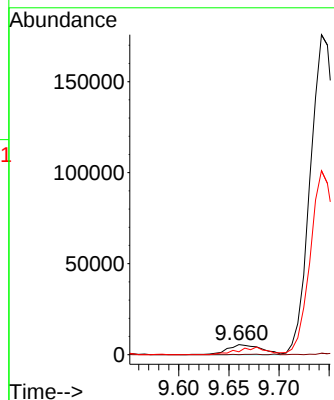
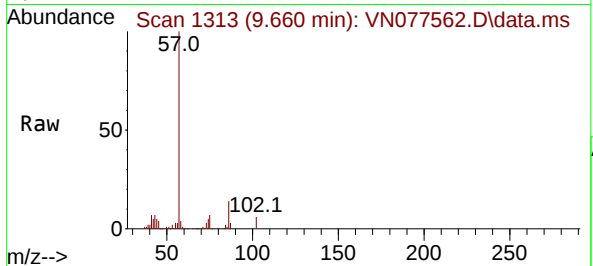




#48
Methyl methacrylate
Concen: 1.777 ug/l
RT: 9.660 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

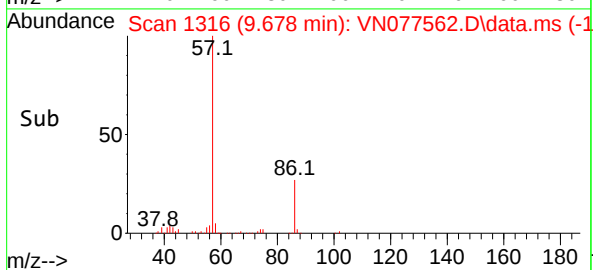
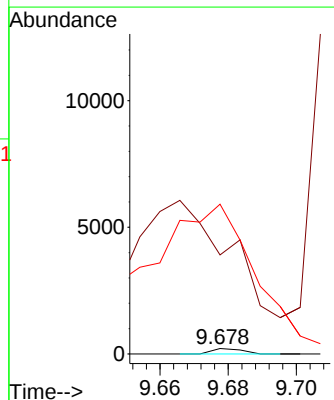
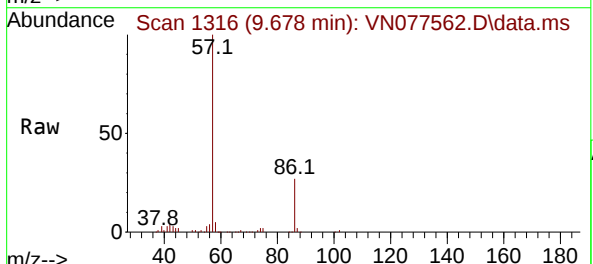
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#07

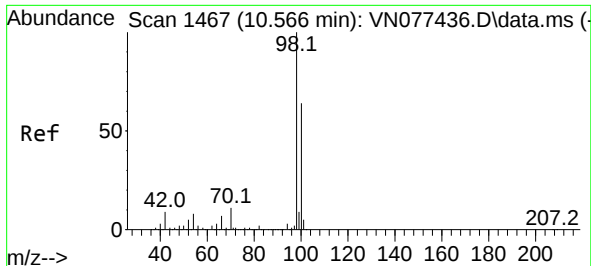
Tgt Ion: 41 Resp: 13099
Ion Ratio Lower Upper
41 100
69 2.1 90.4 135.6#
39 60.6 54.6 81.8



#49
1,4-Dioxane
Concen: 0.709 ug/l
RT: 9.678 min Scan# 1316
Delta R.T. -0.018 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

Tgt Ion: 88 Resp: 131
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 10667.2 47.0 70.4#

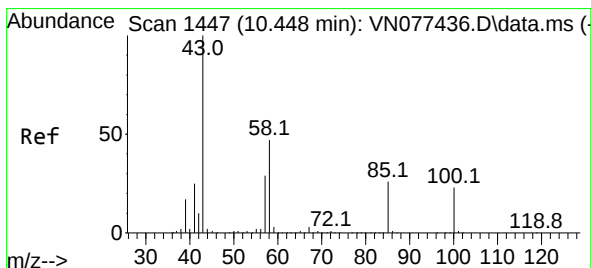
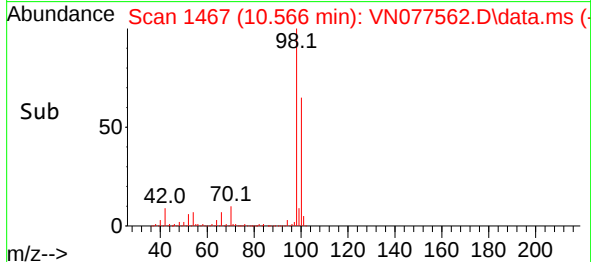
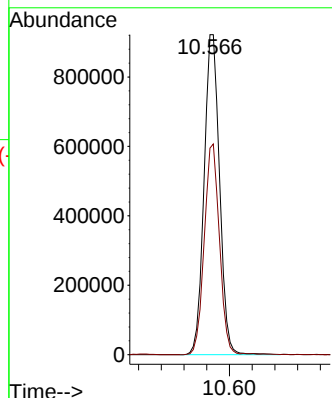
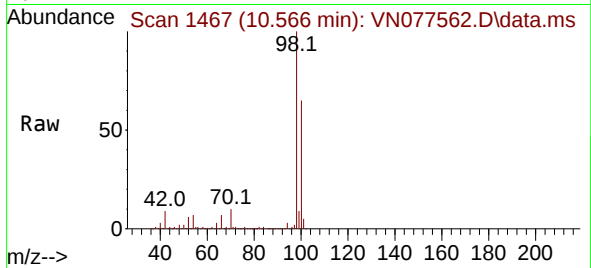




#50
Toluene-d8
Concen: 53.212 ug/l
RT: 10.566 min Scan# 1467
Delta R.T. -0.000 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

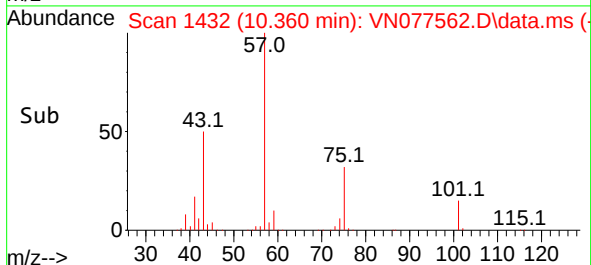
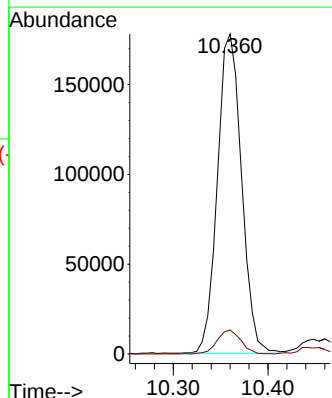
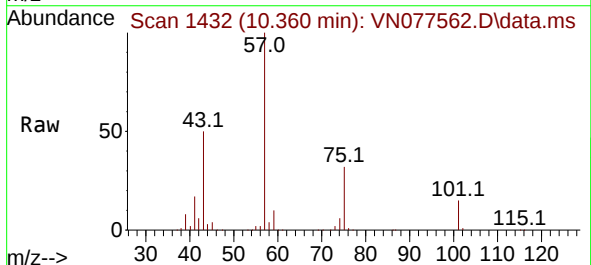
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#07

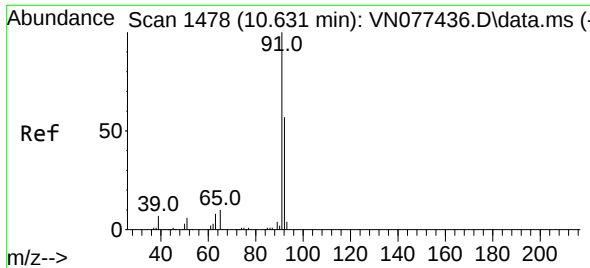
Tgt Ion: 98 Resp: 1738628
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 33.121 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. -0.088 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

Tgt Ion: 43 Resp: 314549
Ion Ratio Lower Upper
43 100
58 7.4 36.6 54.8#

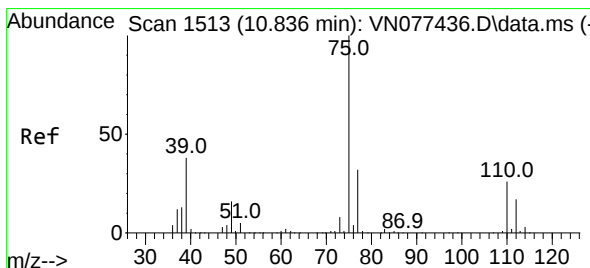
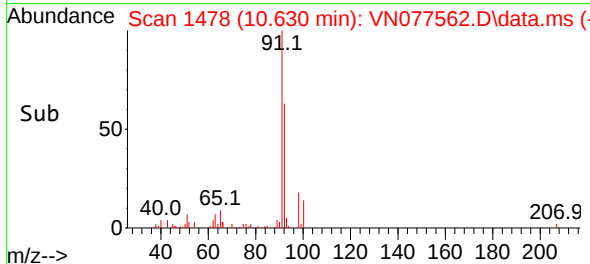
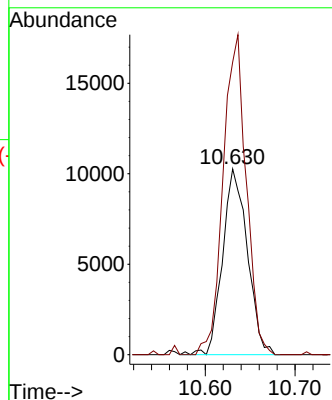
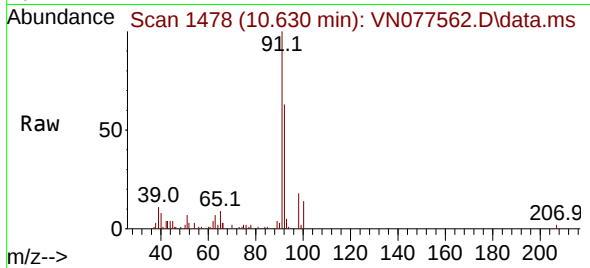




#52
Toluene
Concen: 0.800 ug/l
RT: 10.630 min Scan# 1478
Delta R.T. -0.000 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

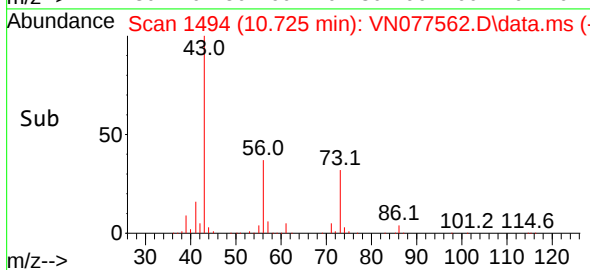
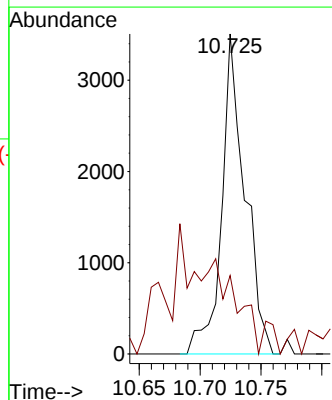
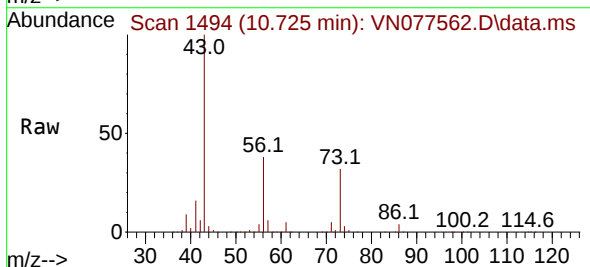
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#07

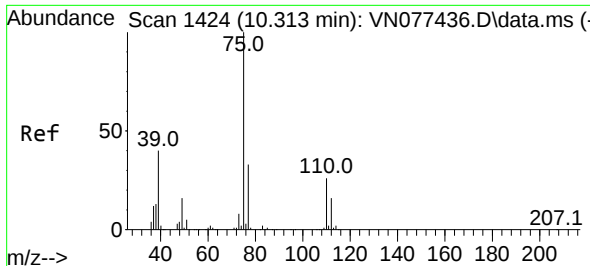
Tgt Ion: 92 Resp: 19665
Ion Ratio Lower Upper
92 100
91 160.8 137.4 206.0



#53
t-1,3-Dichloropropene
Concen: 0.333 ug/l
RT: 10.725 min Scan# 1494
Delta R.T. -0.112 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

Tgt Ion: 75 Resp: 4651
Ion Ratio Lower Upper
75 100
77 24.5 25.4 38.0#

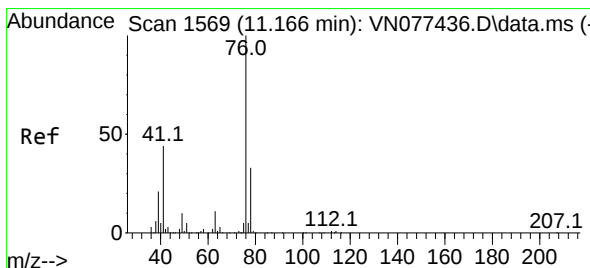
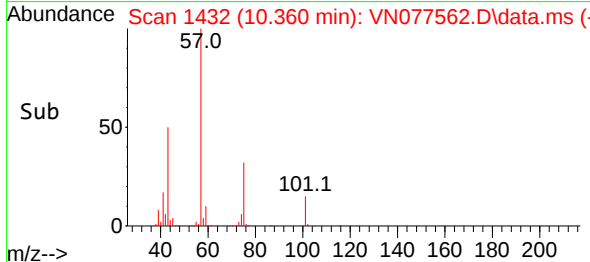
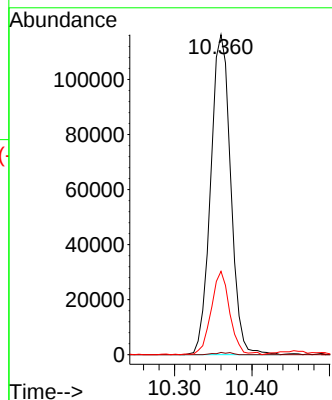
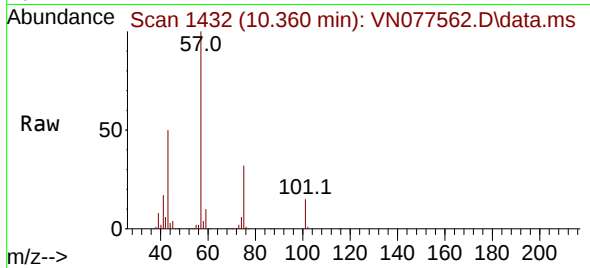




#54
 cis-1,3-Dichloropropene
 Concen: 13.745 ug/l
 RT: 10.360 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN077562.D
 Acq: 03 May 2023 14:56

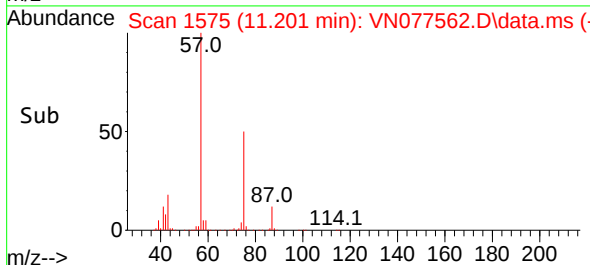
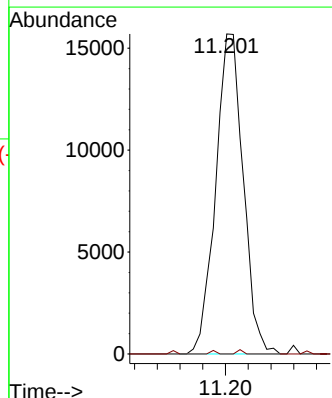
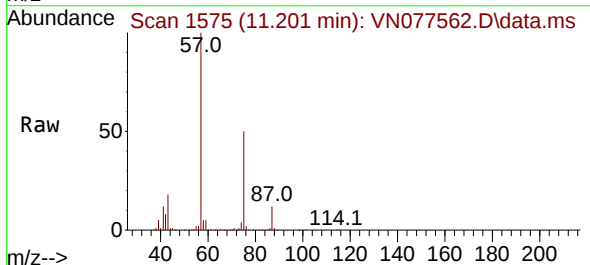
Instrument :
 MSVOA_N
 ClientSampleId :
 PB152533ZHE#07

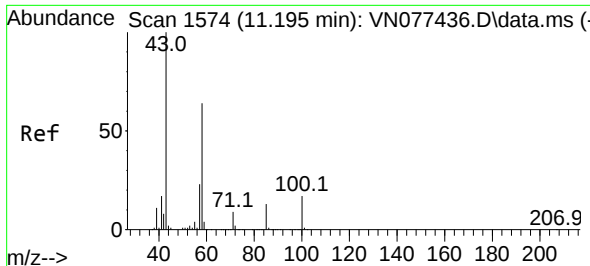
Tgt Ion: 75 Resp: 208988
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.1 39.1#
 39 26.0 31.6 47.4#



#57
 1,3-Dichloropropane
 Concen: 1.682 ug/l
 RT: 11.201 min Scan# 1575
 Delta R.T. 0.035 min
 Lab File: VN077562.D
 Acq: 03 May 2023 14:56

Tgt Ion: 76 Resp: 26477
 Ion Ratio Lower Upper
 76 100
 78 0.3 26.1 39.1#

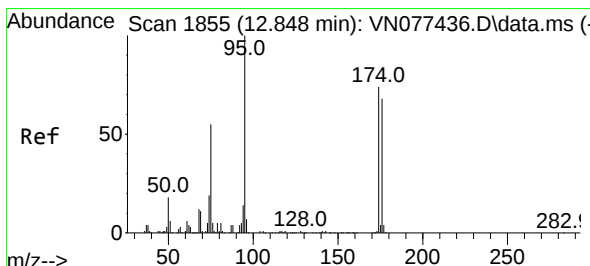
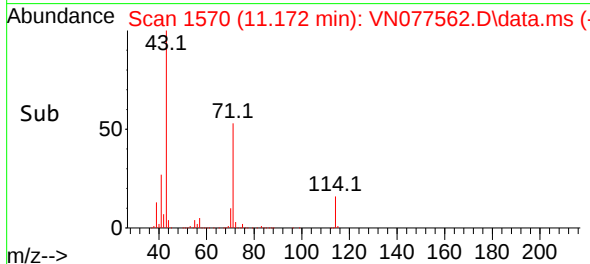
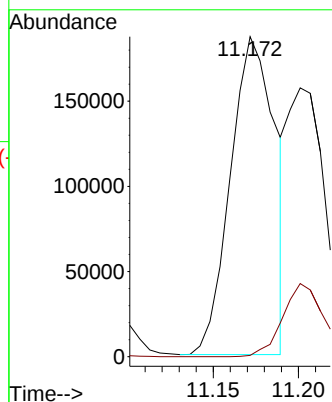
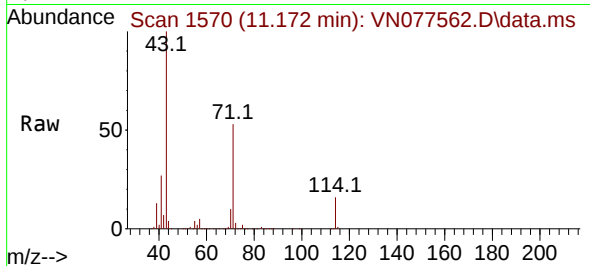




#59
2-Hexanone
Concen: 49.298 ug/l
RT: 11.172 min Scan# 111
Delta R.T. -0.024 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

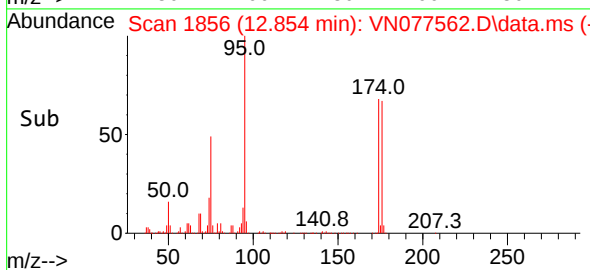
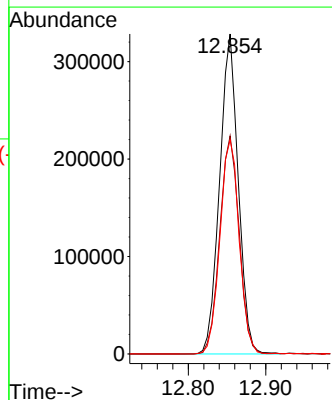
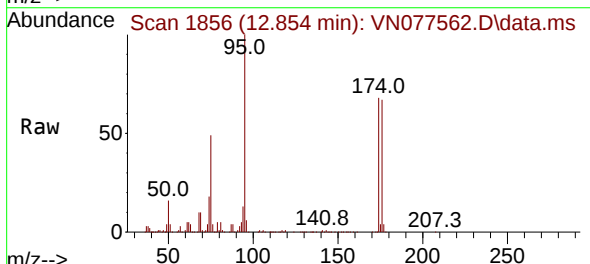
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#07

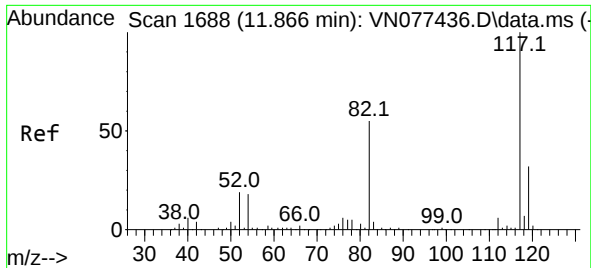
Tgt Ion: 43 Resp: 340317
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 51.321 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

Tgt Ion: 95 Resp: 548626
Ion Ratio Lower Upper
95 100
174 70.6 0.0 143.8
176 69.2 0.0 135.8

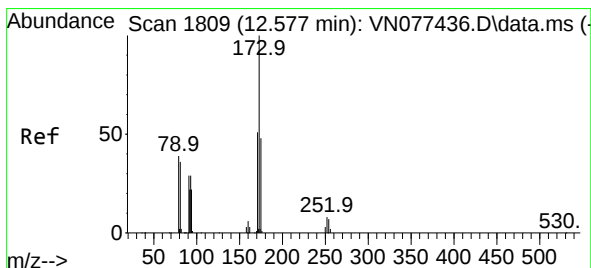
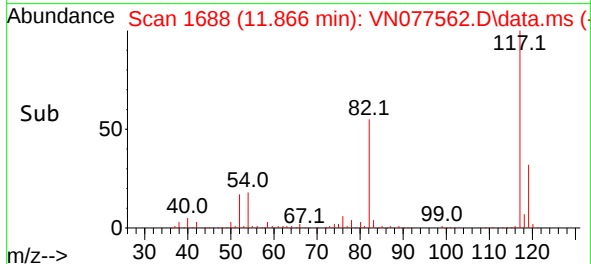
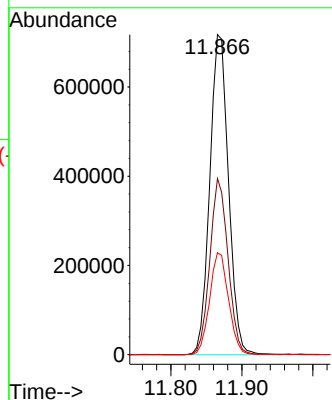
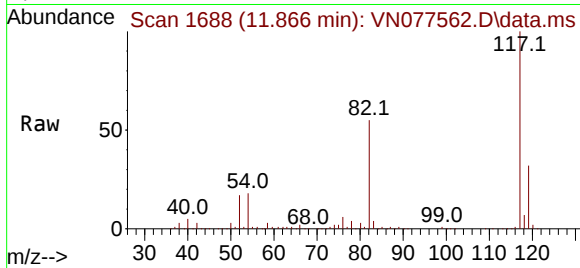




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

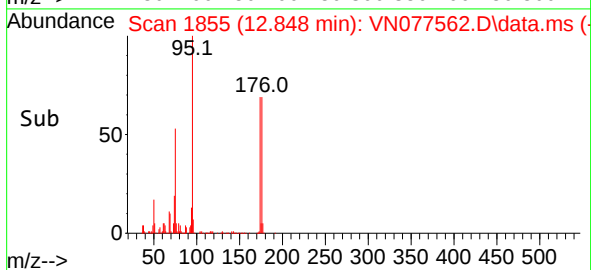
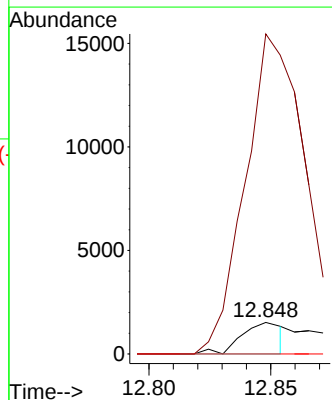
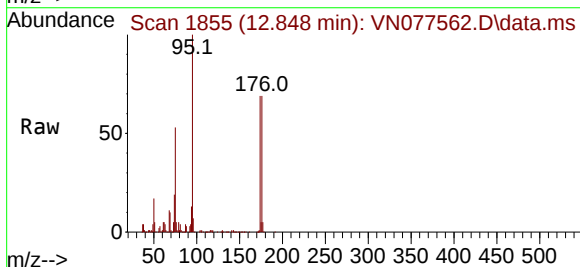
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#07

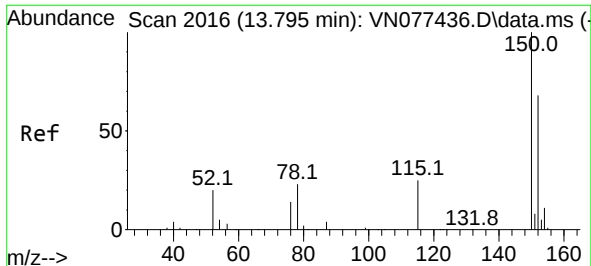
Tgt Ion:117 Resp: 1311883
Ion Ratio Lower Upper
117 100
82 55.1 44.0 66.0
119 31.9 25.6 38.4



#71
Bromoform
Concen: 0.271 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.271 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

Tgt Ion:173 Resp: 1793
Ion Ratio Lower Upper
173 100
175 960.5 24.3 73.0#
254 0.0 0.0 0.0

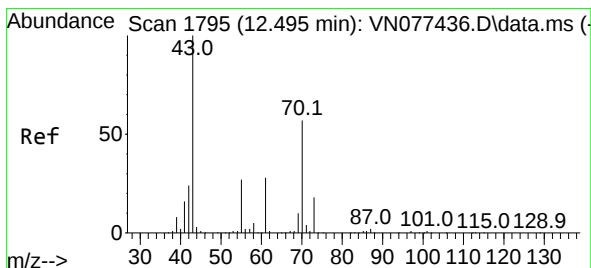
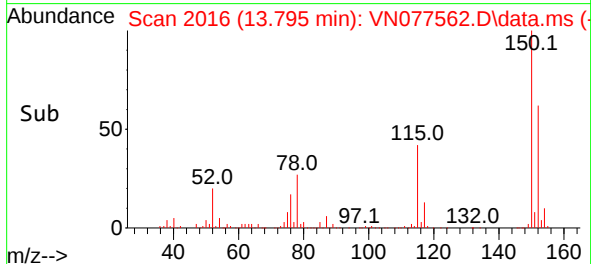
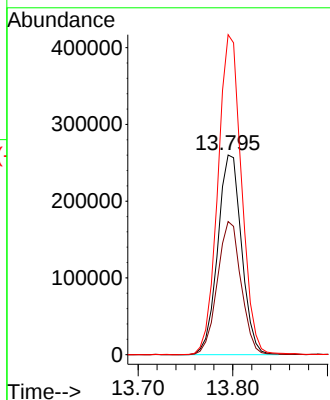
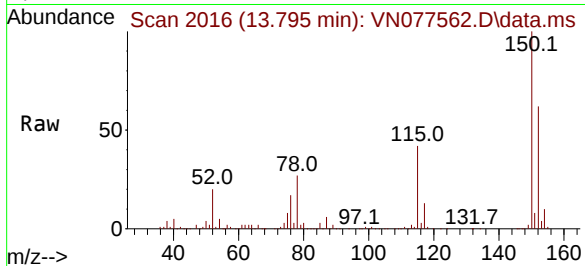




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

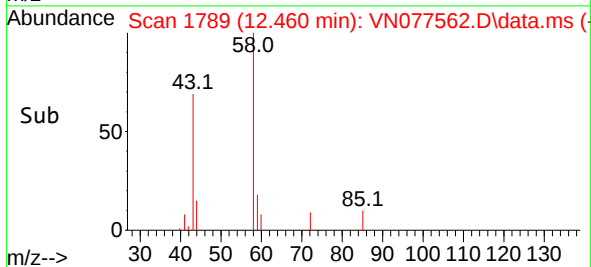
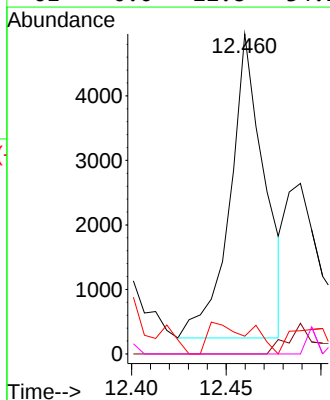
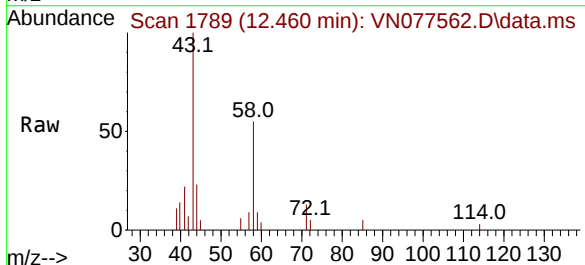
Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#07

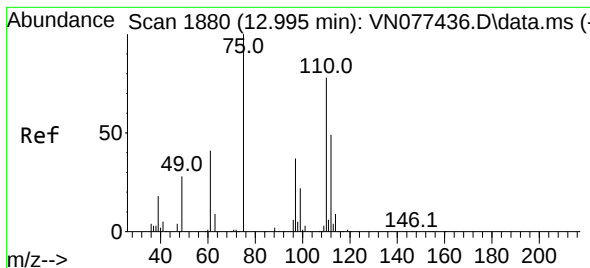
Tgt Ion:152 Resp: 455233
Ion Ratio Lower Upper
152 100
115 66.4 32.3 96.8
150 159.3 0.0 355.8



#74
N-ethyl acetate
Concen: 0.476 ug/l
RT: 12.460 min Scan# 1789
Delta R.T. -0.035 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

Tgt Ion: 43 Resp: 5951
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 13.0 21.4 32.0#
61 0.0 22.8 34.2#





#76

1,2,3-Trichloropropane

Concen: 26.962 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN077562.D

Acq: 03 May 2023 14:56

Instrument :

MSVOA_N

ClientSampleId :

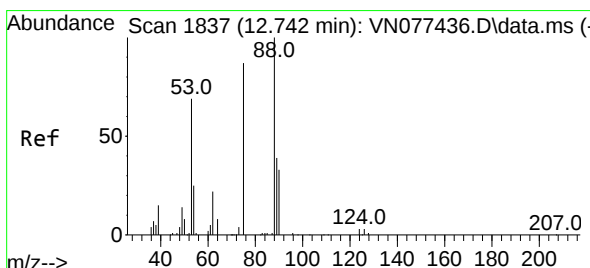
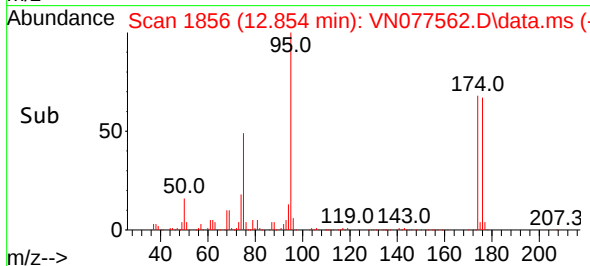
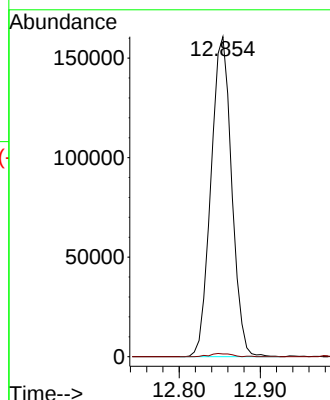
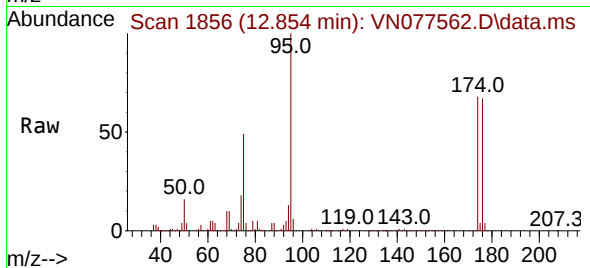
PB152533ZHE#07

Tgt Ion: 75 Resp: 285419

Ion Ratio Lower Upper

75 100

77 1.0 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 76.172 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.112 min

Lab File: VN077562.D

Acq: 03 May 2023 14:56

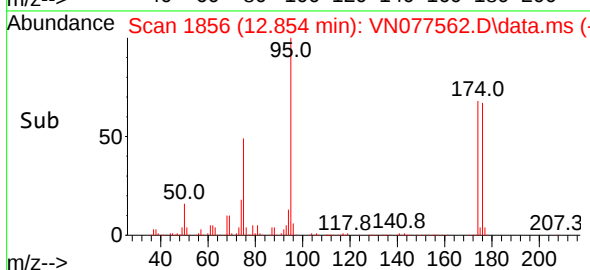
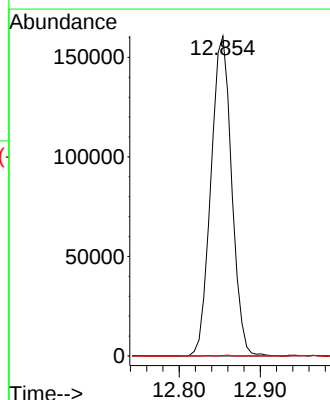
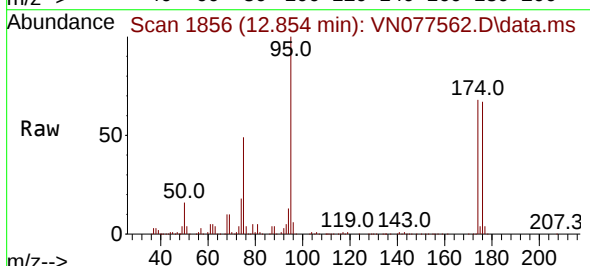
Tgt Ion: 75 Resp: 285419

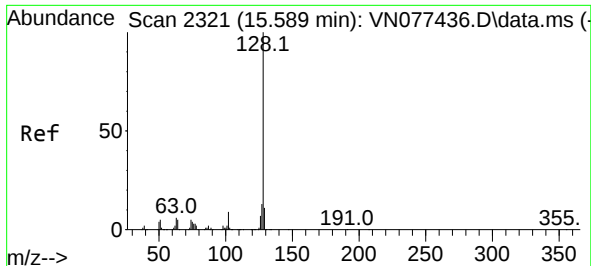
Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

89 0.1 38.8 58.2#

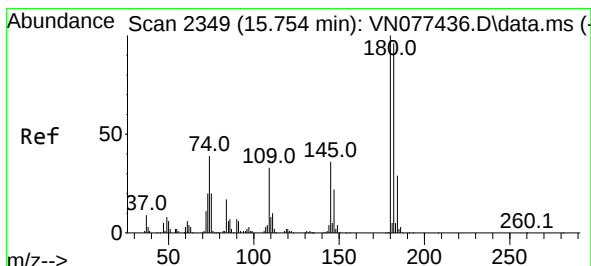
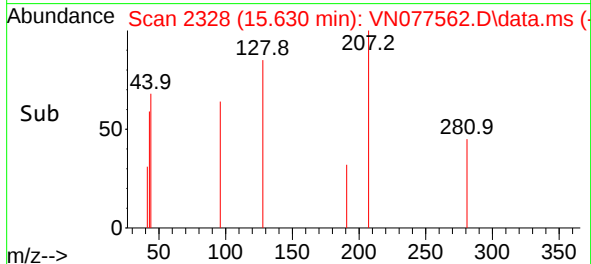
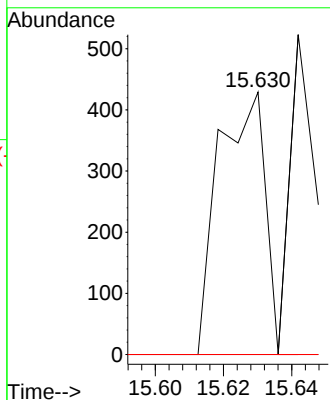
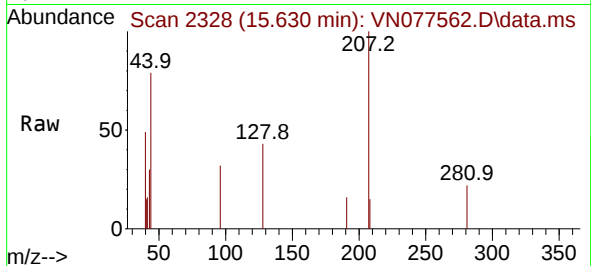




#95
Naphthalene
Concen: 1.174 ug/l
RT: 15.630 min Scan# 21
Delta R.T. 0.041 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

Instrument :
MSVOA_N
ClientSampleId :
PB152533ZHE#07

Tgt Ion:128 Resp: 403
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 0.491 ug/l
RT: 15.842 min Scan# 2364
Delta R.T. 0.088 min
Lab File: VN077562.D
Acq: 03 May 2023 14:56

Tgt Ion:180 Resp: 54
Ion Ratio Lower Upper
180 100
182 0.0 46.2 138.6#
145 227.8 17.5 52.6#

