

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041923\
 Data File : VN077378.D
 Acq On : 19 Apr 2023 16:21
 Operator : JC\MD
 Sample : PB152199ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152199ZHE#06

Quant Time: Apr 20 04:26:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N040523W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 06 08:27:03 2023
 Response via : Initial Calibration

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

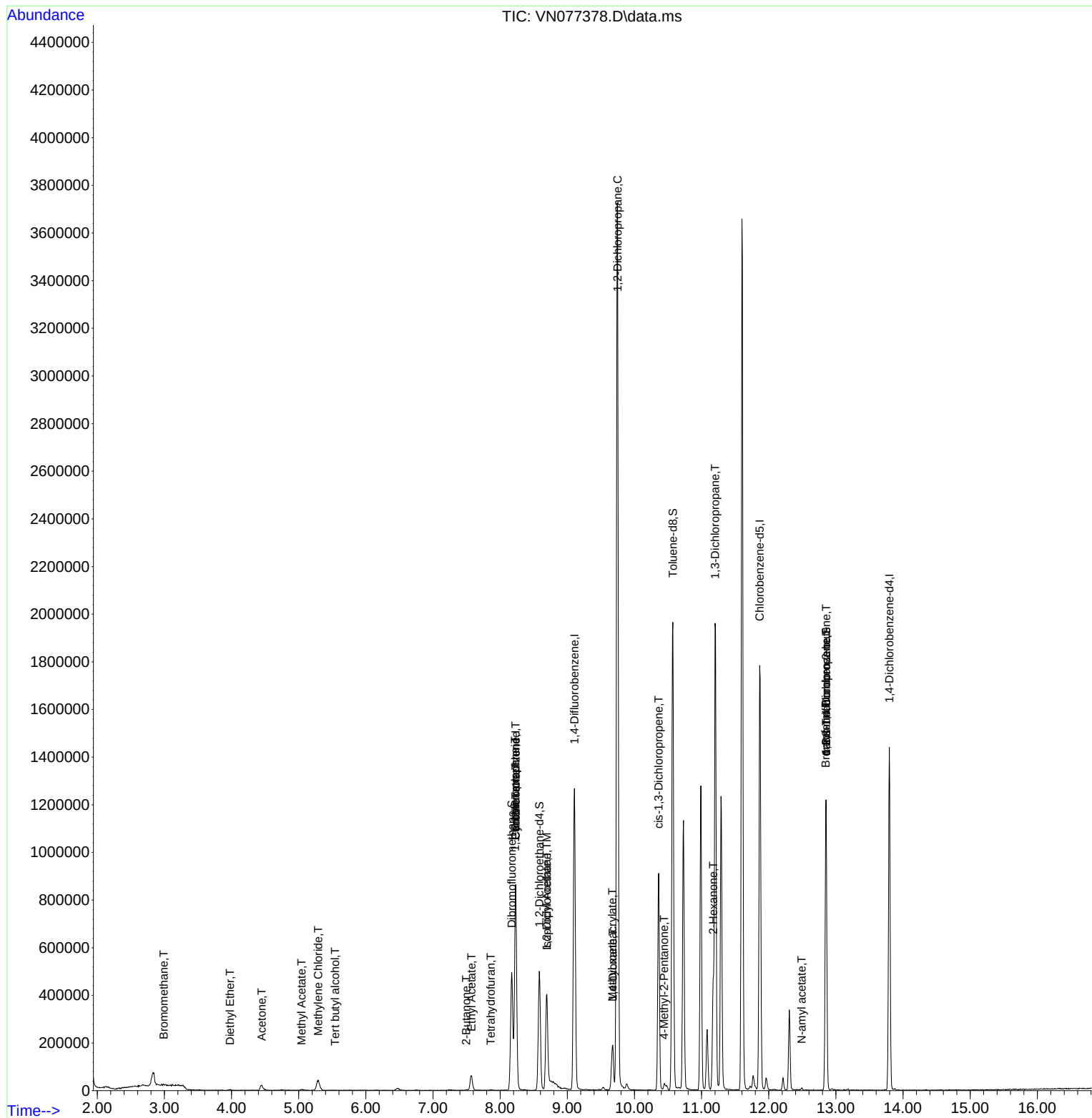
Internal Standards						
1) Pentafluorobenzene	8.231	168	615079	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1180830	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	1084622	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	381254	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	390310	46.429	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.860%		
35) Dibromofluoromethane	8.172	113	356518	47.163	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.320%		
50) Toluene-d8	10.572	98	1436473	47.204	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.400%		
62) 4-Bromofluorobenzene	12.854	95	442117	43.683	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	87.360%		
Target Compounds						Qvalue
5) Bromomethane	2.990	94	3282	0.343	ug/l #	67
8) Diethyl Ether	3.978	74	1961	0.409	ug/l	79
11) Tert butyl alcohol	5.542	59	907	0.529	ug/l #	72
16) Acetone	4.448	43	39810	12.844	ug/l	96
18) Methyl Acetate	5.043	43	8290	0.702	ug/l #	77
20) Methylene Chloride	5.290	84	37196	4.249	ug/l	98
25) 2-Butanone	7.495	43	3170	0.630	ug/l	94
29) Tetrahydrofuran	7.860	42	1588	0.491	ug/l #	54
31) Cyclohexane	8.231	56	13790	1.056	ug/l #	30
36) 1,1-Dichloropropene	8.225	75	53210	4.759	ug/l #	49
37) Ethyl Acetate	7.572	43	88546	8.852	ug/l #	93
38) Carbon Tetrachloride	8.231	117	68366	5.968	ug/l #	14
42) 1,2-Dichloroethane	8.695	62	3405	0.317	ug/l #	73
43) Isopropyl Acetate	8.695	43	449822	24.370	ug/l #	91
45) 1,2-Dichloropropane	9.748	63	5714	0.690	ug/l #	41
48) Methyl methacrylate	9.672	41	9880	1.255	ug/l #	37
49) 1,4-Dioxane	9.678	88	68	0.356	ug/l #	1
51) 4-Methyl-2-Pentanone	10.442	43	15800	1.481	ug/l	97
54) cis-1,3-Dichloropropene	10.360	75	187199	12.976	ug/l #	61
57) 1,3-Dichloropropane	11.201	76	22213	1.501	ug/l #	42
59) 2-Hexanone	11.172	43	328794	41.365	ug/l #	20
71) Bromoform	12.848	173	1643	0.258	ug/l #	1
74) N-amyl acetate	12.489	43	3106	0.221	ug/l #	38
76) 1,2,3-Trichloropropane	12.854	75	238279	26.246	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	238279	59.062	ug/l #	13

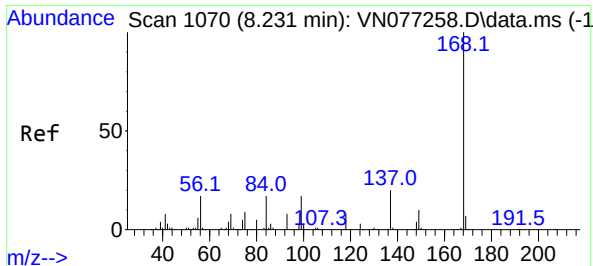
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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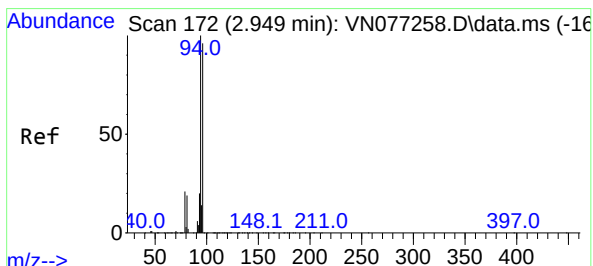
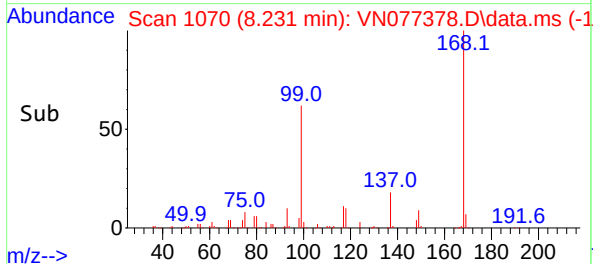
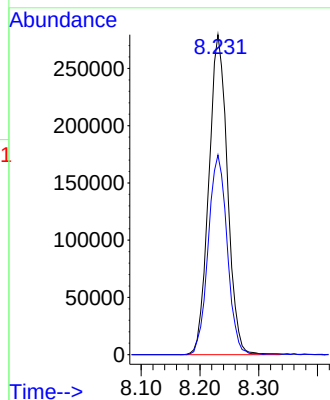
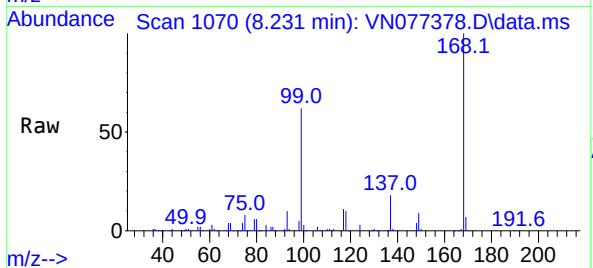




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

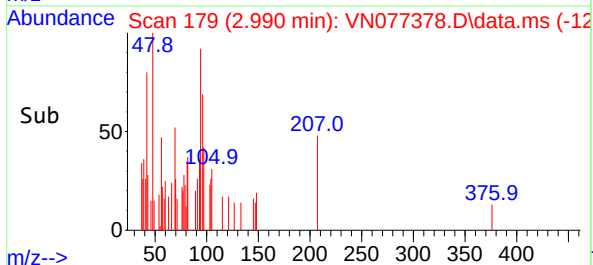
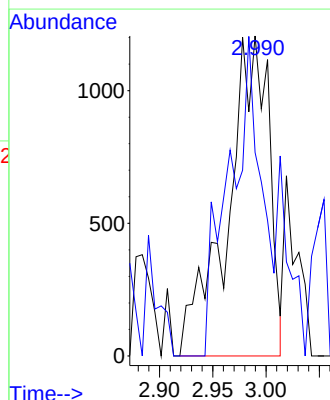
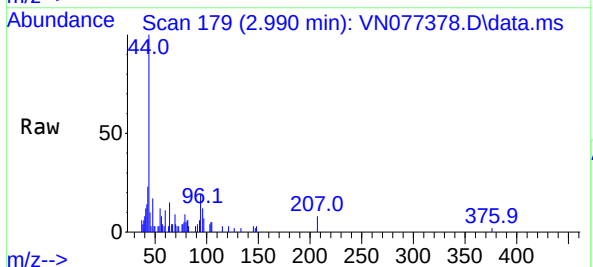
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#06

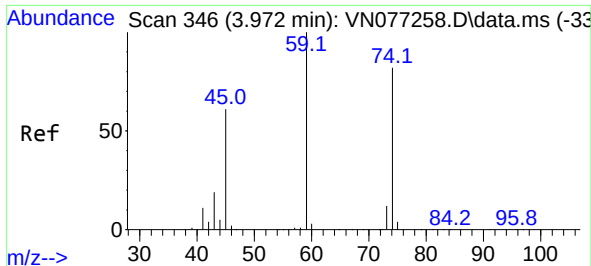
Tgt Ion:168 Resp: 615079
Ion Ratio Lower Upper
168 100
99 62.4 50.6 75.8



#5
Bromomethane
Concen: 0.343 ug/l
RT: 2.990 min Scan# 179
Delta R.T. 0.041 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

Tgt Ion: 94 Resp: 3282
Ion Ratio Lower Upper
94 100
96 63.6 77.0 115.4#

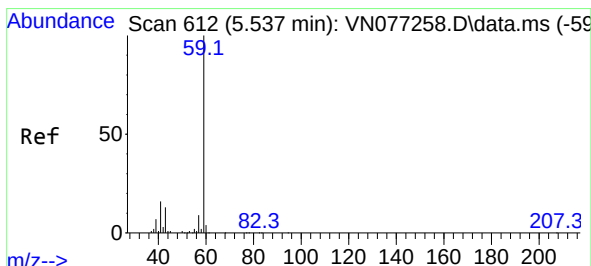
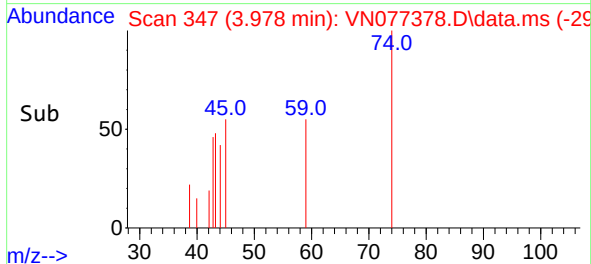
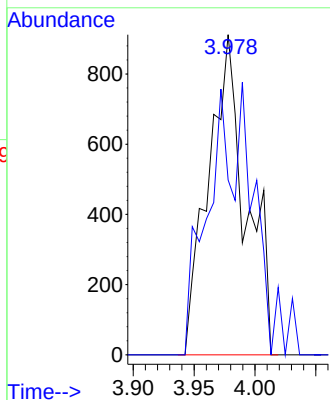
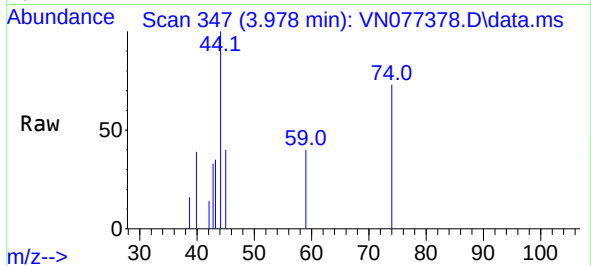




#8
Diethyl Ether
Concen: 0.409 ug/l
RT: 3.978 min Scan# 346
Delta R.T. 0.006 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

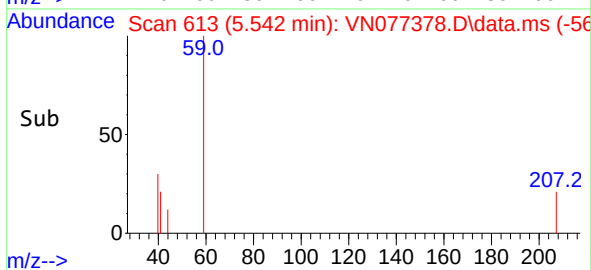
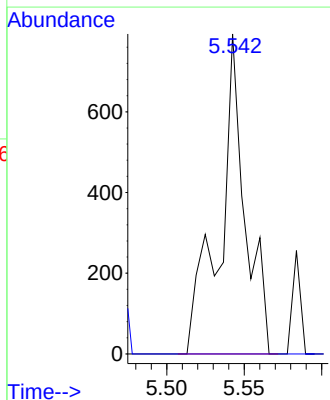
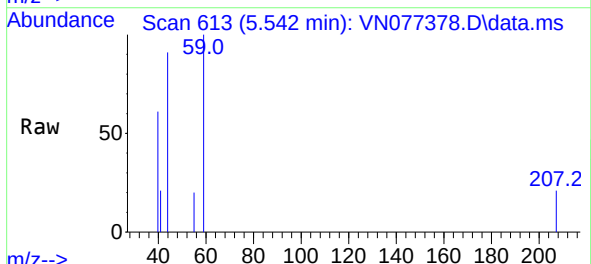
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#06

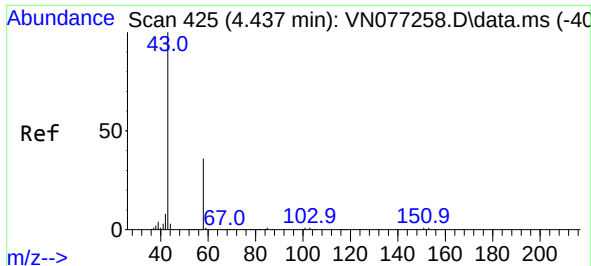
Tgt Ion: 74 Resp: 1961
Ion Ratio Lower Upper
74 100
45 57.7 37.8 113.4



#11
Tert butyl alcohol
Concen: 0.529 ug/l
RT: 5.542 min Scan# 613
Delta R.T. 0.005 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

Tgt Ion: 59 Resp: 907
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

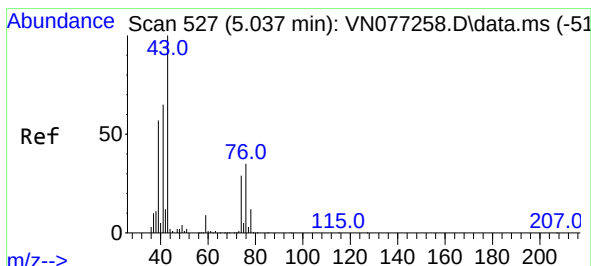
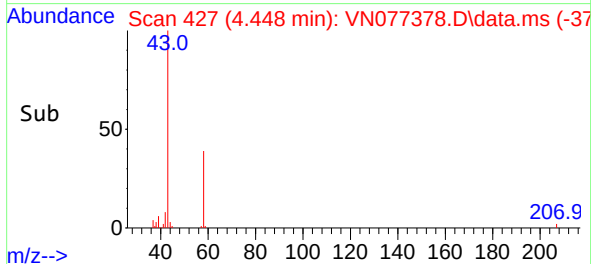
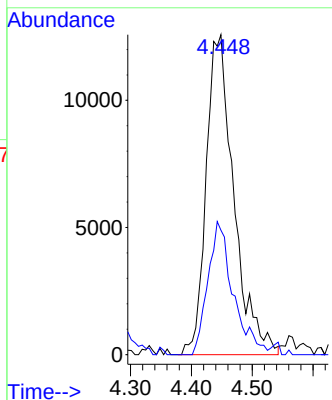
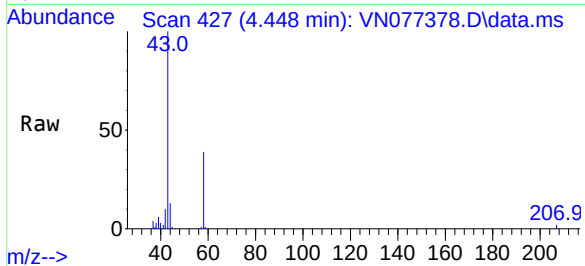




#16
Acetone
Concen: 12.844 ug/l
RT: 4.448 min Scan# 41
Delta R.T. 0.011 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

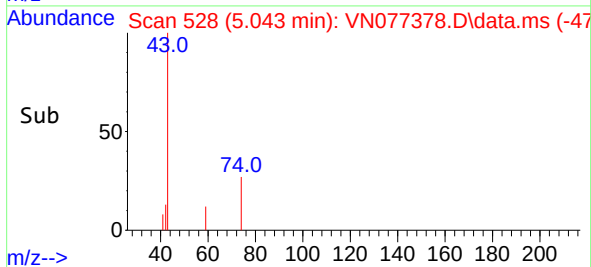
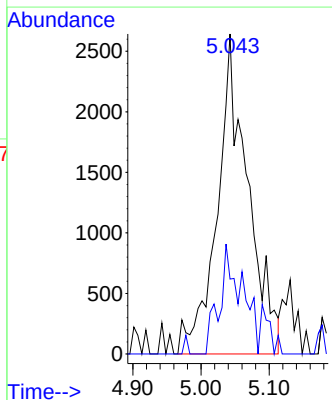
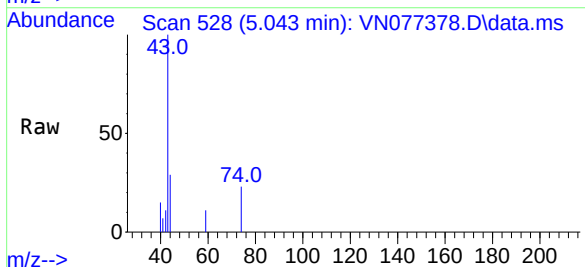
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#06

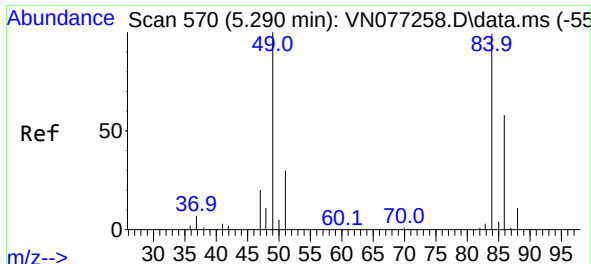
Tgt Ion: 43 Resp: 39810
Ion Ratio Lower Upper
43 100
58 38.9 29.0 43.6



#18
Methyl Acetate
Concen: 0.702 ug/l
RT: 5.043 min Scan# 528
Delta R.T. 0.006 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

Tgt Ion: 43 Resp: 8290
Ion Ratio Lower Upper
43 100
74 16.9 23.4 35.2#



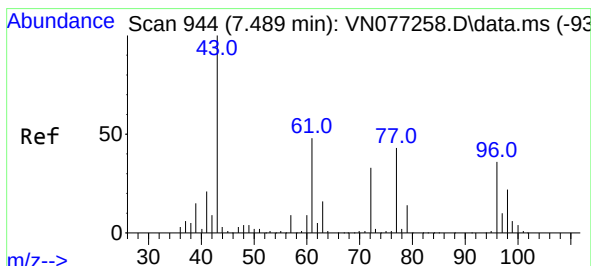
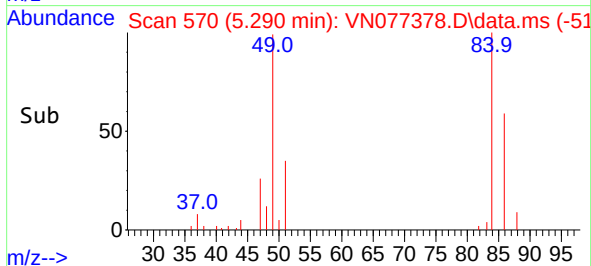
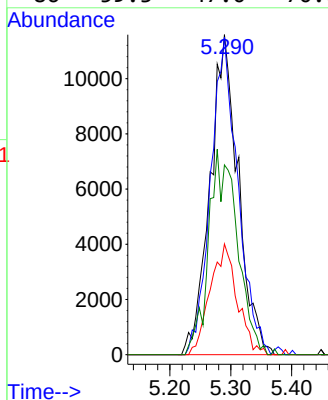
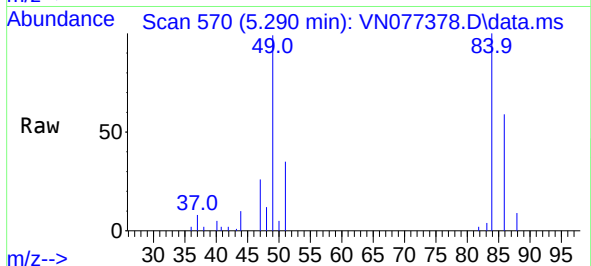


#20
Methylene Chloride
Concen: 4.249 ug/l
RT: 5.290 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#06

Tgt Ion: 84 Resp: 37196

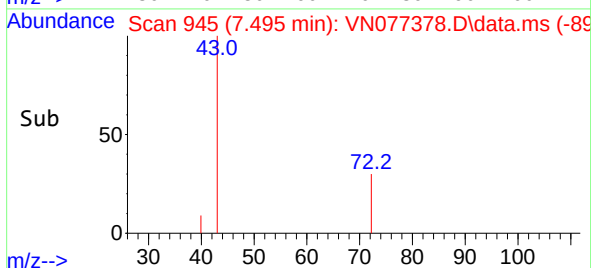
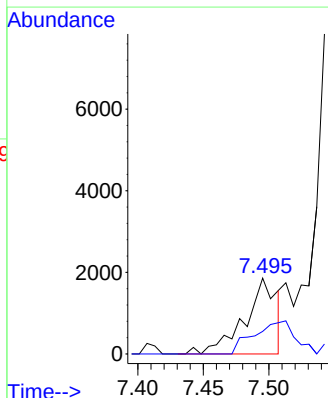
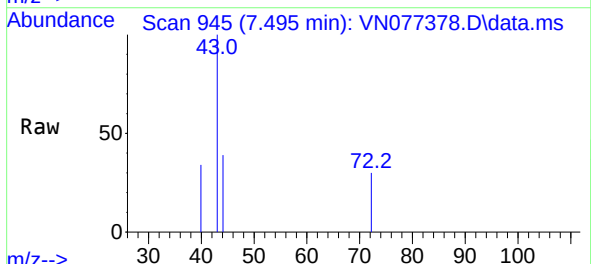
Ion	Ratio	Lower	Upper
84	100		
49	99.2	80.6	121.0
51	34.6	24.4	36.6
86	59.3	47.0	70.6

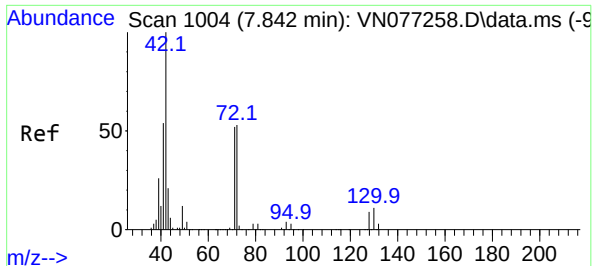


#25
2-Butanone
Concen: 0.630 ug/l
RT: 7.495 min Scan# 945
Delta R.T. 0.006 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

Tgt Ion: 43 Resp: 3170

Ion	Ratio	Lower	Upper
43	100		
72	29.7	26.6	39.8





#29

Tetrahydrofuran

Concen: 0.491 ug/l

RT: 7.860 min Scan# 10

Delta R.T. 0.018 min

Lab File: VN077378.D

Acq: 19 Apr 2023 16:21

Instrument :

MSVOA_N

ClientSampleId :

PB152199ZHE#06

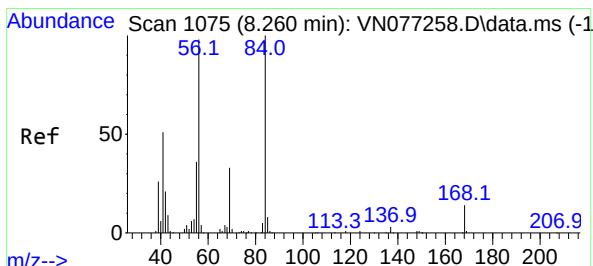
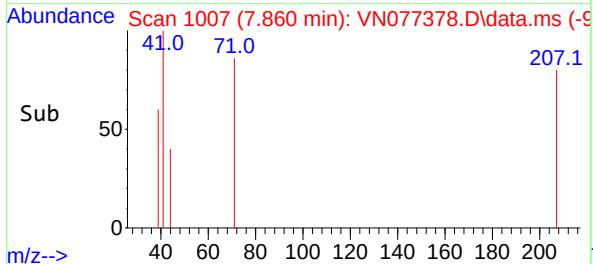
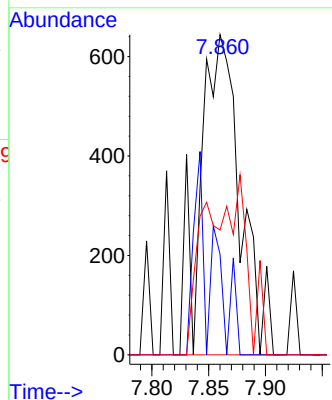
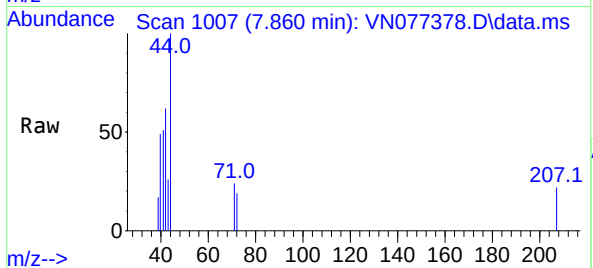
Tgt Ion: 42 Resp: 1588

Ion Ratio Lower Upper

42 100

72 14.5 44.6 66.8#

71 27.7 41.3 61.9#



#31

Cyclohexane

Concen: 1.056 ug/l

RT: 8.231 min Scan# 1070

Delta R.T. -0.029 min

Lab File: VN077378.D

Acq: 19 Apr 2023 16:21

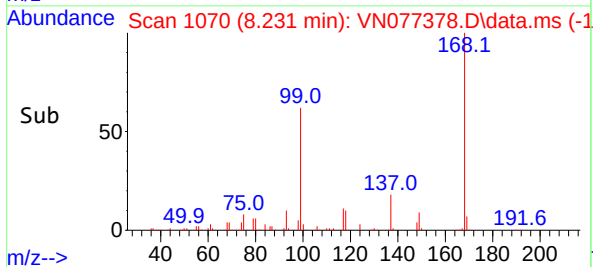
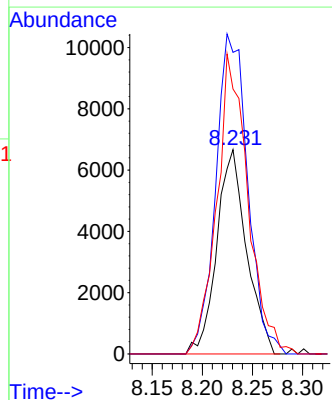
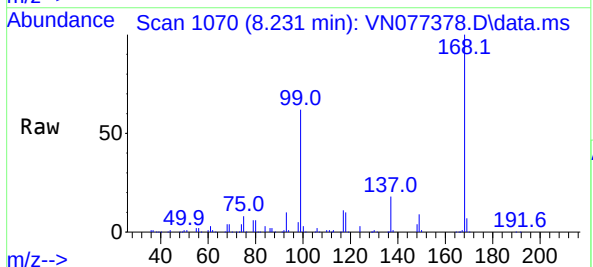
Tgt Ion: 56 Resp: 13790

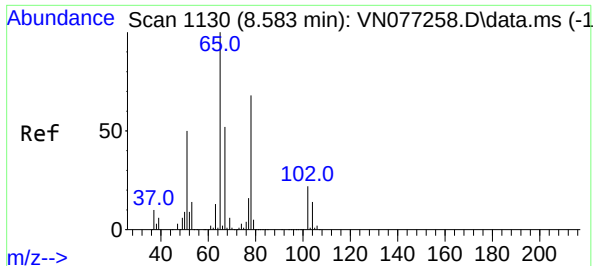
Ion Ratio Lower Upper

56 100

69 147.6 26.6 40.0#

84 129.7 81.8 122.8#

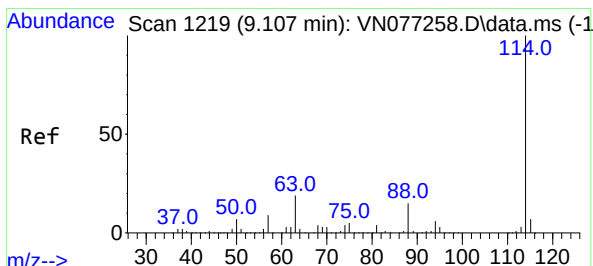
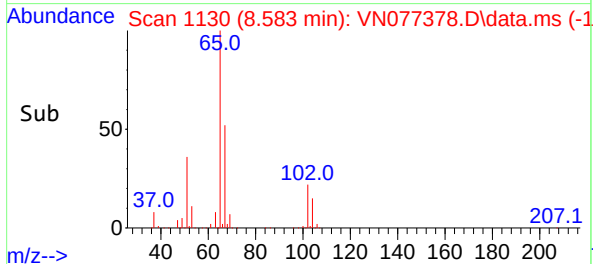
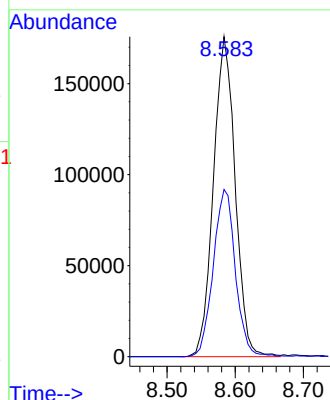
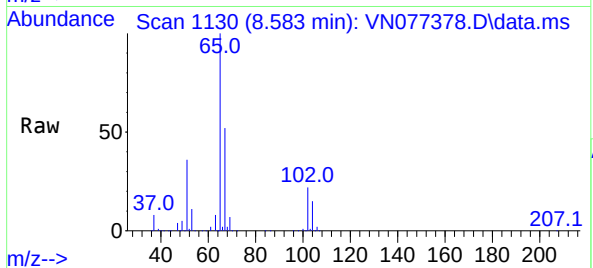




#33
1,2-Dichloroethane-d4
Concen: 46.429 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

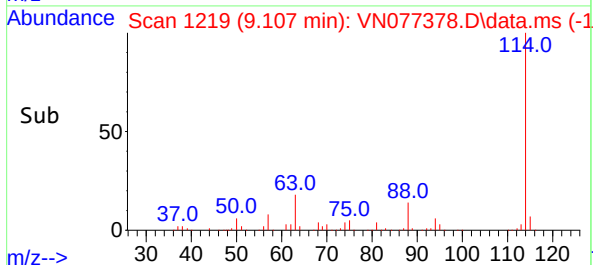
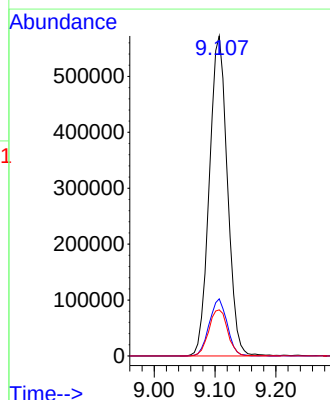
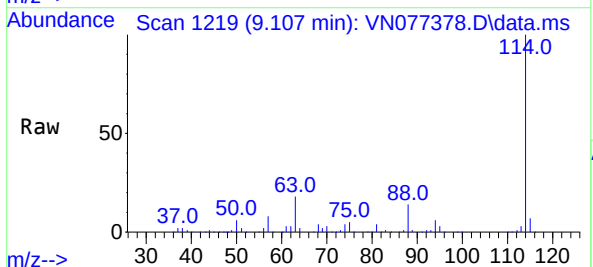
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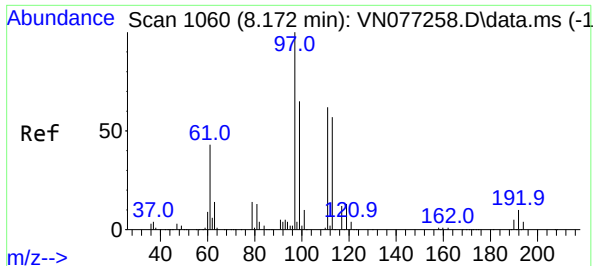
Tgt Ion: 65 Resp: 390310
Ion Ratio Lower Upper
65 100
67 53.2 0.0 108.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 1219
Delta R.T. -0.000 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

Tgt Ion: 114 Resp: 1180830
Ion Ratio Lower Upper
114 100
63 17.9 0.0 37.8
88 14.4 0.0 29.4

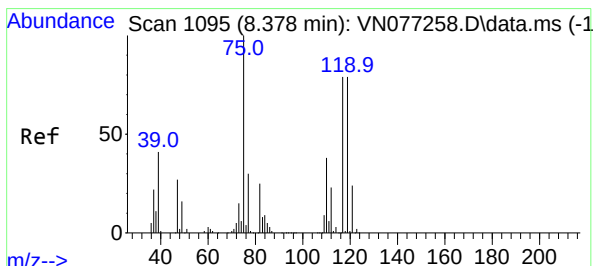
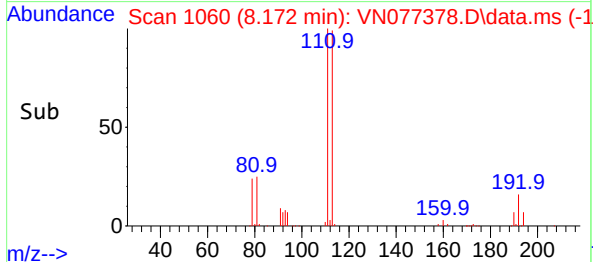
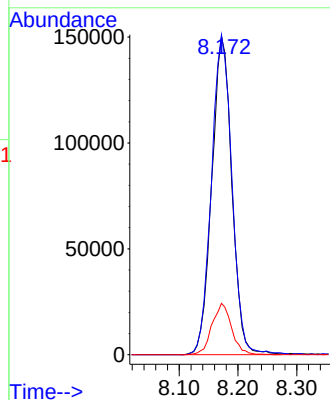
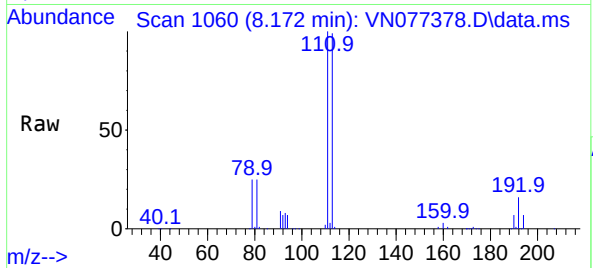




#35
Dibromofluoromethane
Concen: 47.163 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

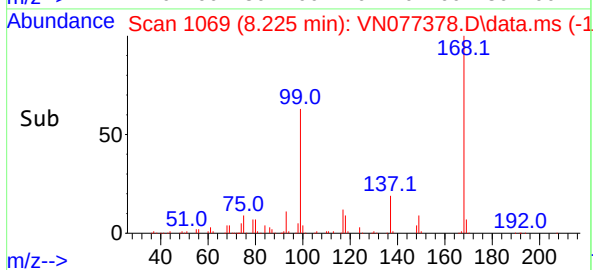
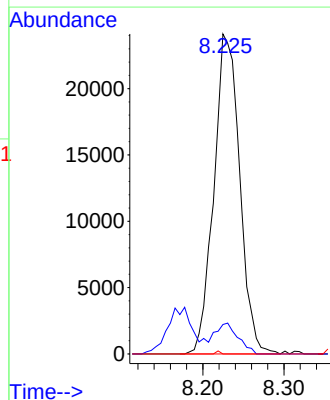
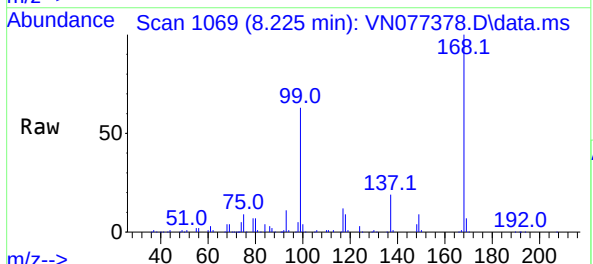
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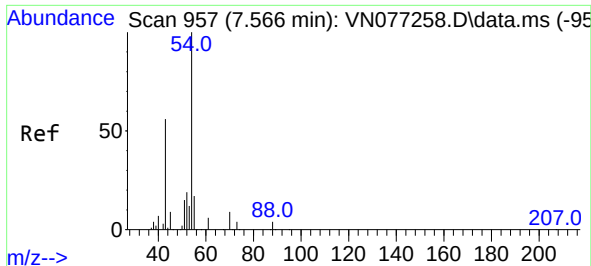
Tgt Ion:113 Resp: 356518
Ion Ratio Lower Upper
113 100
111 102.7 83.4 125.0
192 15.7 13.5 20.3



#36
1,1-Dichloropropene
Concen: 4.759 ug/l
RT: 8.225 min Scan# 1069
Delta R.T. -0.153 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

Tgt Ion: 75 Resp: 53210
Ion Ratio Lower Upper
75 100
110 8.5 17.8 53.5#
77 0.2 25.0 37.4#

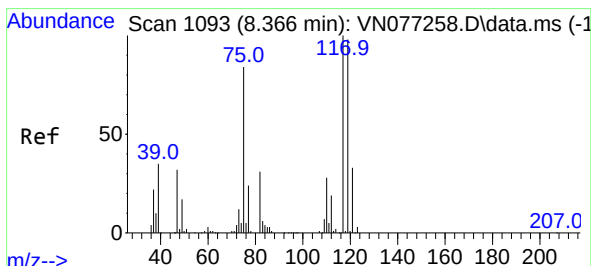
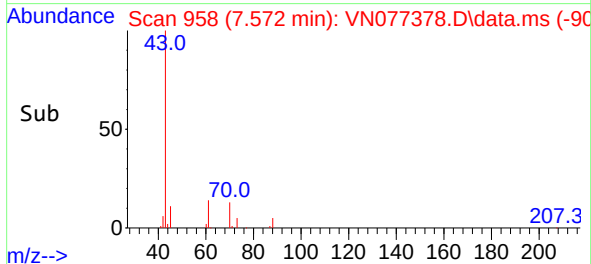
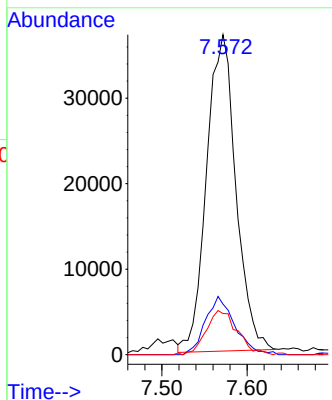
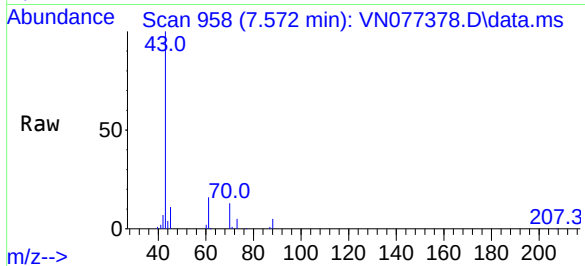




#37
Ethyl Acetate
Concen: 8.852 ug/l
RT: 7.572 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

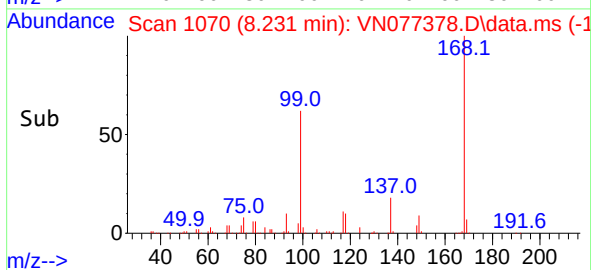
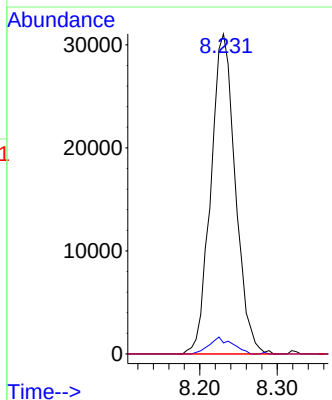
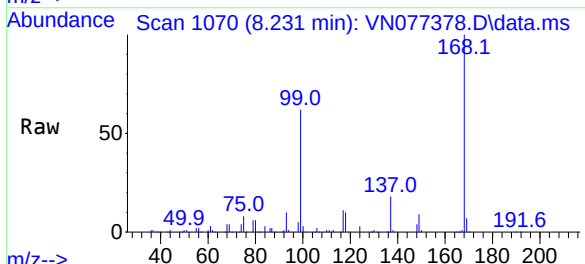
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#06

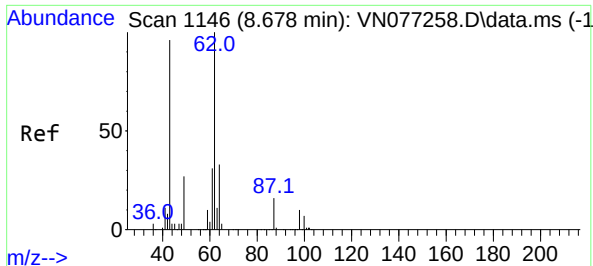
Tgt Ion: 43 Resp: 88546
Ion Ratio Lower Upper
43 100
61 18.4 12.2 18.2#
70 14.8 10.0 15.0



#38
Carbon Tetrachloride
Concen: 5.968 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.135 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

Tgt Ion: 117 Resp: 68366
Ion Ratio Lower Upper
117 100
119 3.5 78.5 117.7#
121 0.0 26.6 40.0#

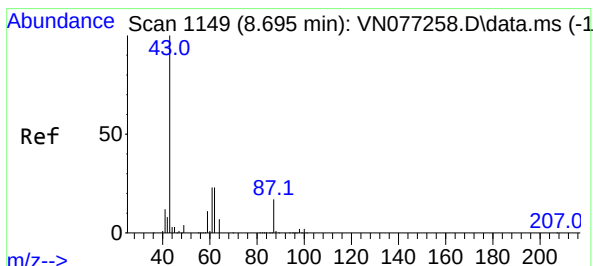
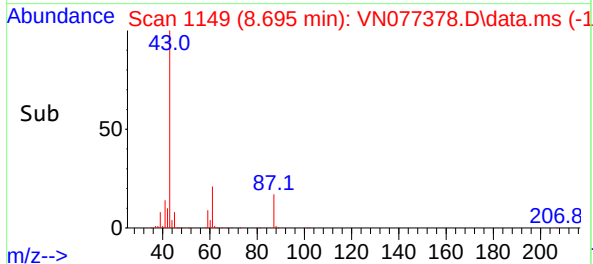
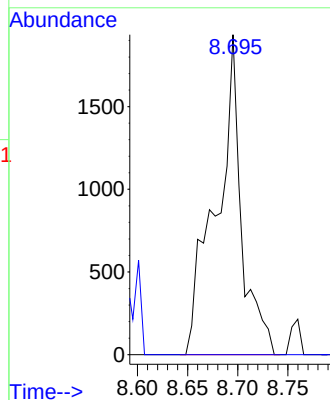
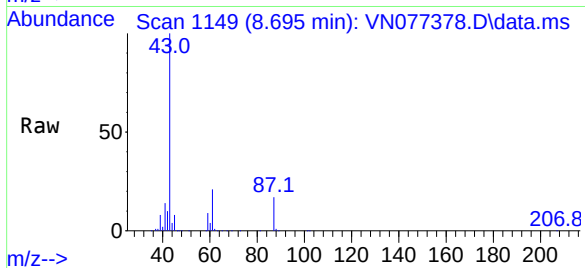




#42
1,2-Dichloroethane
Concen: 0.317 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.017 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

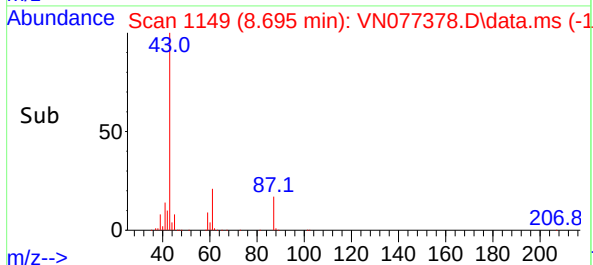
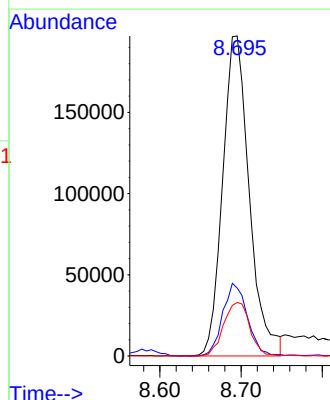
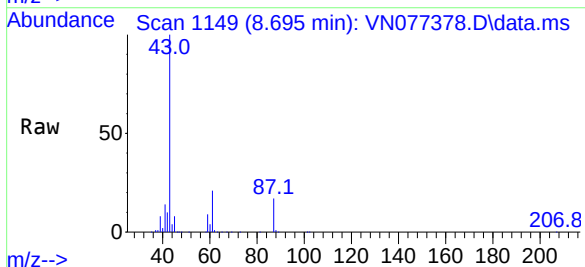
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#06

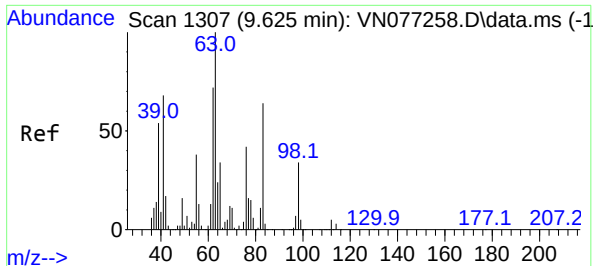
Tgt Ion: 62 Resp: 3405
Ion Ratio Lower Upper
62 100
98 0.0 0.0 20.2



#43
Isopropyl Acetate
Concen: 24.370 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

Tgt Ion: 43 Resp: 449822
Ion Ratio Lower Upper
43 100
61 21.0 22.7 34.1#
87 16.4 13.6 20.4

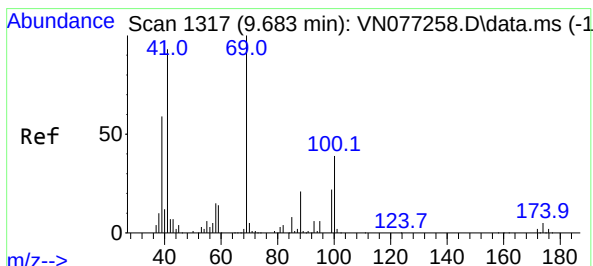
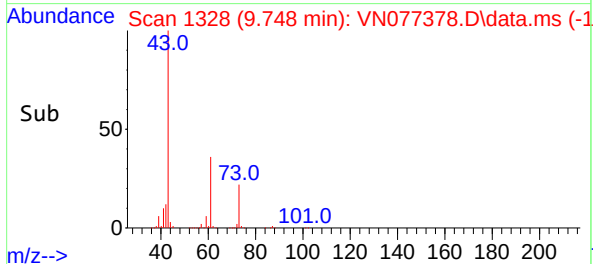
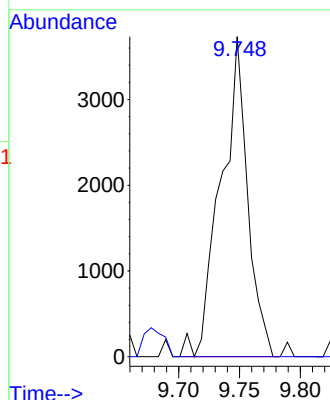
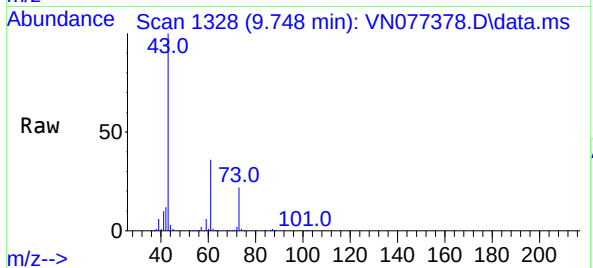




#45
1,2-Dichloropropane
Concen: 0.690 ug/l
RT: 9.748 min Scan# 11
Delta R.T. 0.123 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

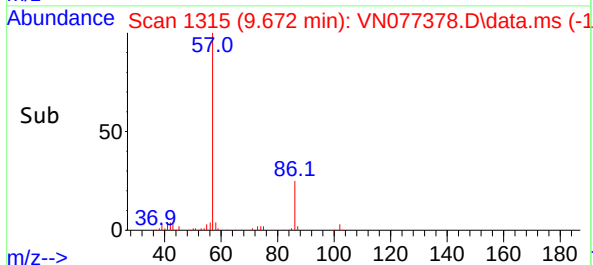
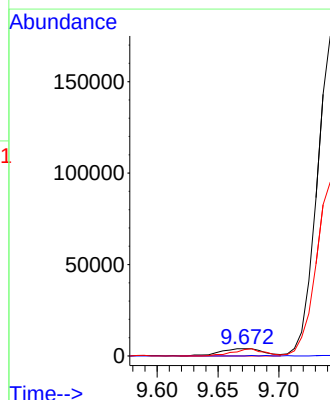
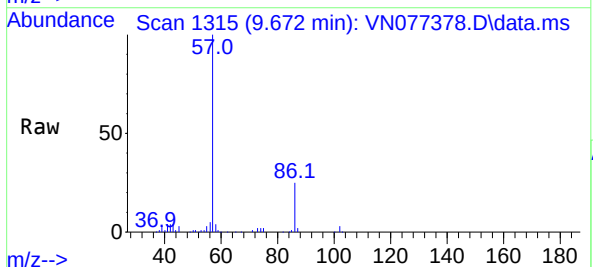
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#06

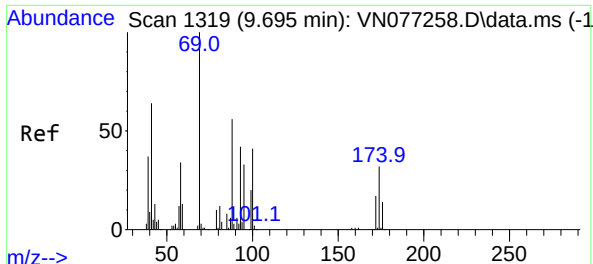
Tgt Ion: 63 Resp: 5714
Ion Ratio Lower Upper
63 100
65 0.0 27.1 40.7#



#48
Methyl methacrylate
Concen: 1.255 ug/l
RT: 9.672 min Scan# 1315
Delta R.T. -0.011 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

Tgt Ion: 41 Resp: 9880
Ion Ratio Lower Upper
41 100
69 1.8 85.0 127.6#
39 69.1 53.5 80.3

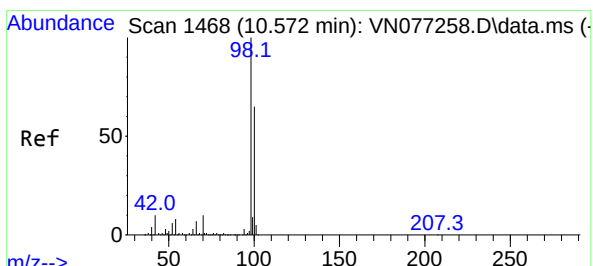
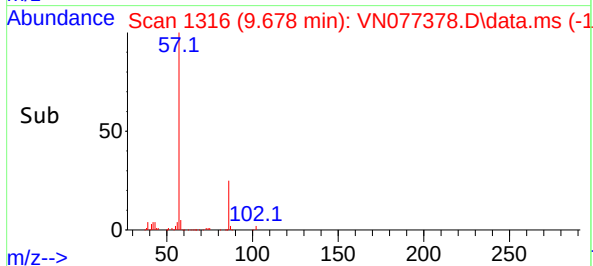
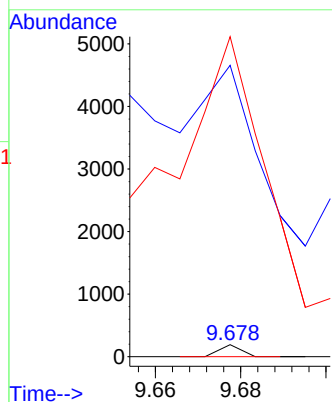
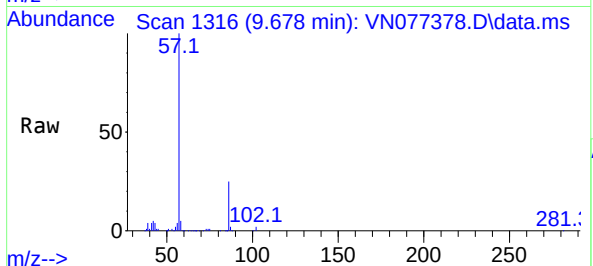




#49
1,4-Dioxane
Concen: 0.356 ug/l
RT: 9.678 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

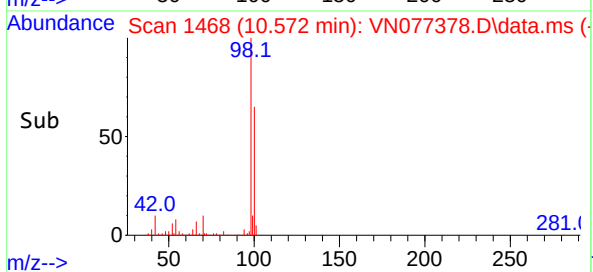
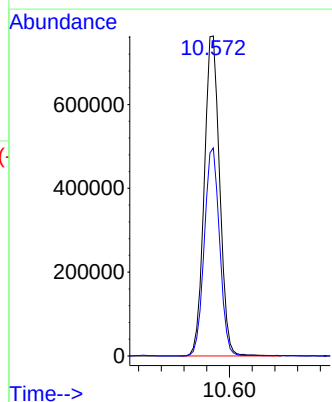
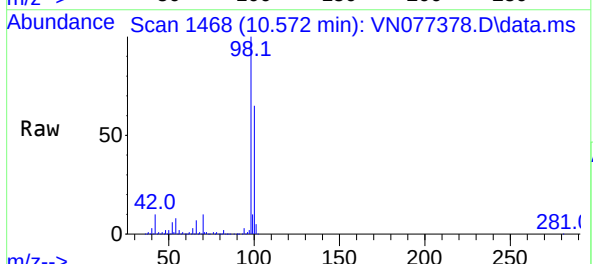
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#06

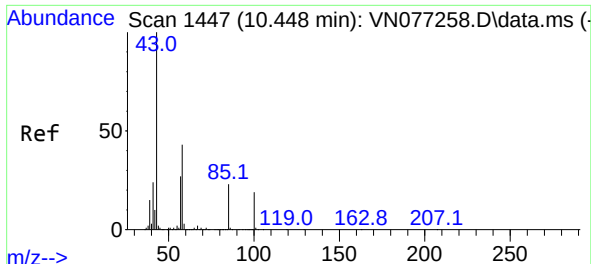
Tgt Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 13964.7 49.8 74.6#



#50
Toluene-d8
Concen: 47.204 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

Tgt Ion: 98 Resp: 1436473
Ion Ratio Lower Upper
98 100
100 64.6 51.3 76.9

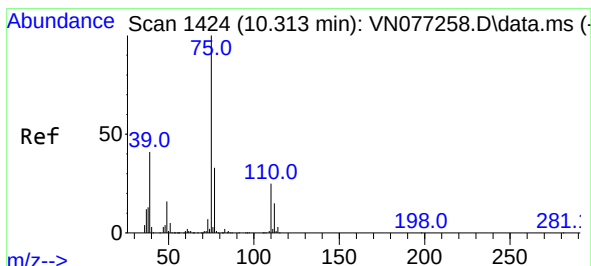
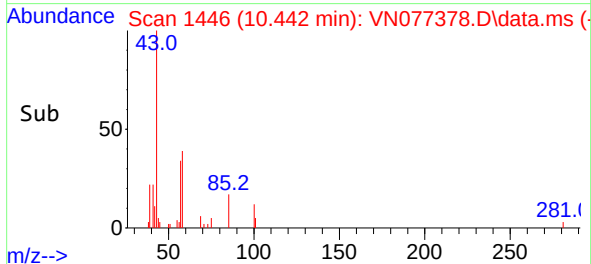
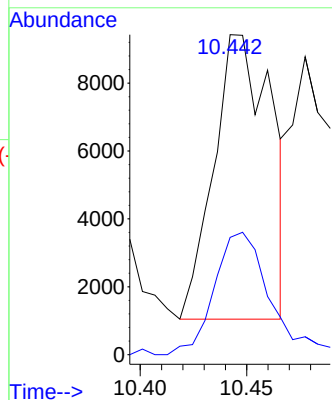
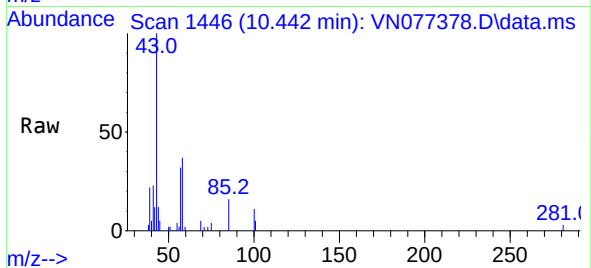




#51
4-Methyl-2-Pentanone
Concen: 1.481 ug/l
RT: 10.442 min Scan# 1446
Delta R.T. -0.006 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

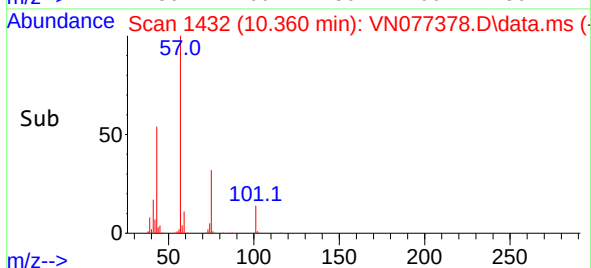
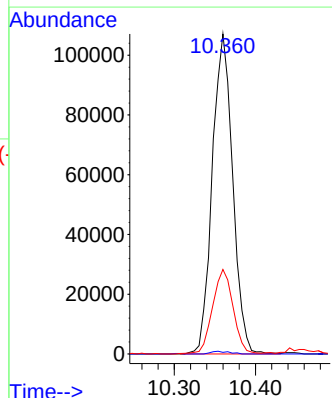
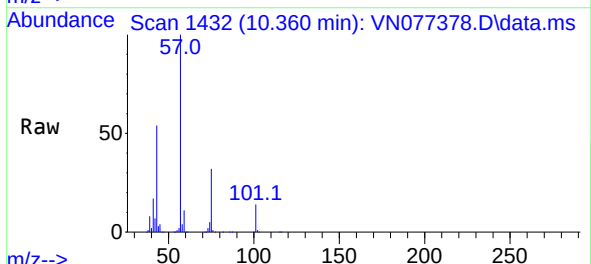
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#06

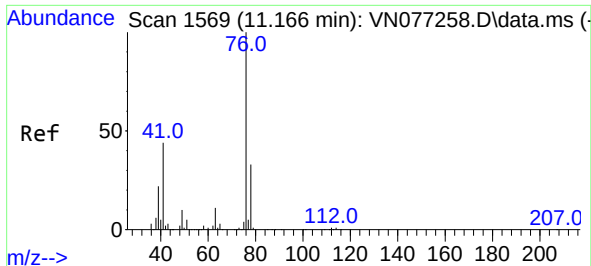
Tgt Ion: 43 Resp: 15800
Ion Ratio Lower Upper
43 100
58 41.1 34.6 52.0



#54
cis-1,3-Dichloropropene
Concen: 12.976 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

Tgt Ion: 75 Resp: 187199
Ion Ratio Lower Upper
75 100
77 0.5 26.7 40.1#
39 26.2 32.8 49.2#





#57

1,3-Dichloropropane

Concen: 1.501 ug/l

RT: 11.201 min Scan# 1575

Delta R.T. 0.035 min

Lab File: VN077378.D

Acq: 19 Apr 2023 16:21

Instrument :

MSVOA_N

ClientSampleId :

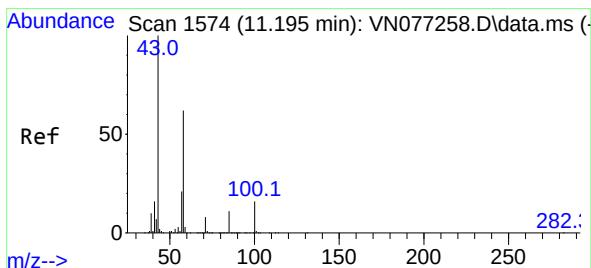
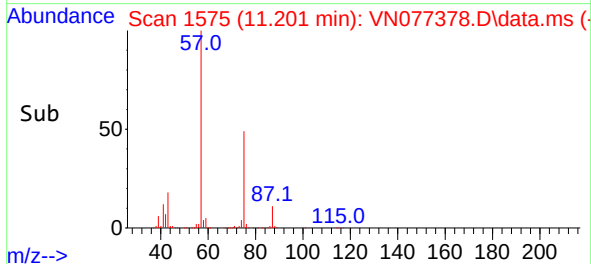
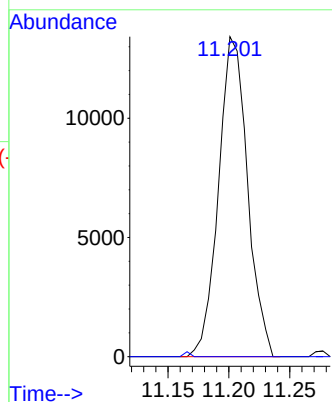
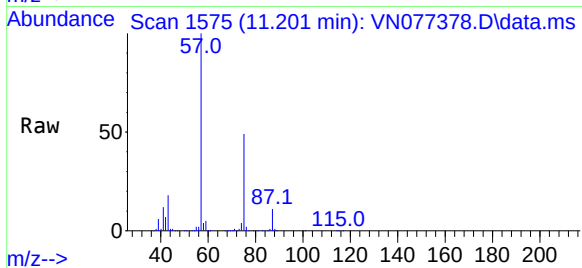
PB152199ZHE#06

Tgt Ion: 76 Resp: 22213

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 41.365 ug/l

RT: 11.172 min Scan# 1570

Delta R.T. -0.023 min

Lab File: VN077378.D

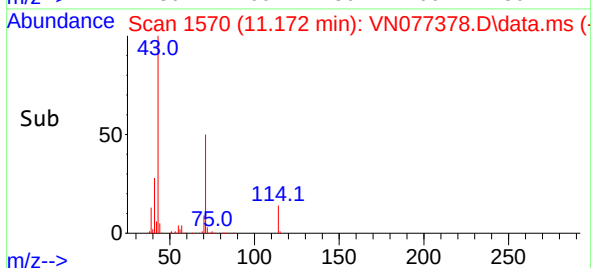
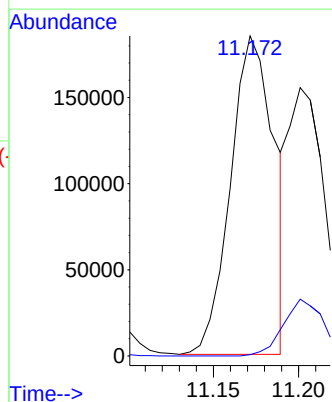
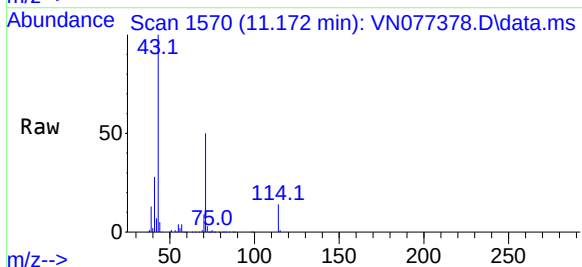
Acq: 19 Apr 2023 16:21

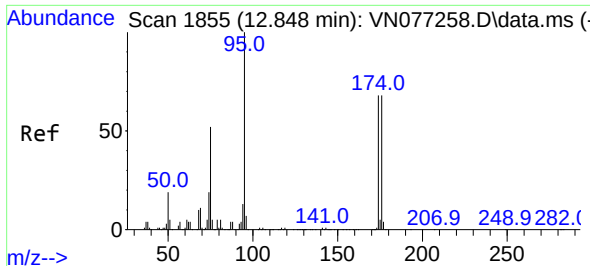
Tgt Ion: 43 Resp: 328794

Ion Ratio Lower Upper

43 100

58 0.0 30.9 92.5#

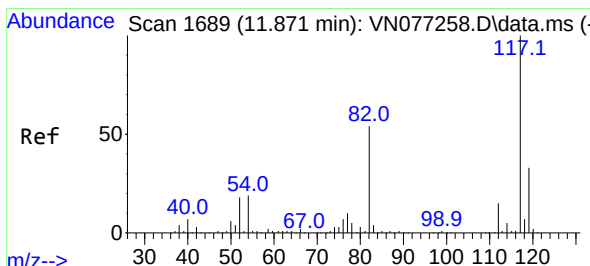
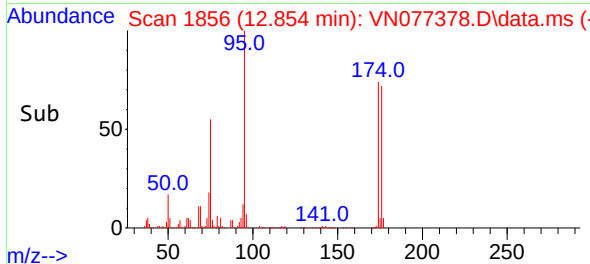
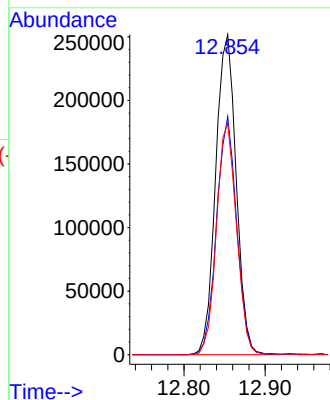
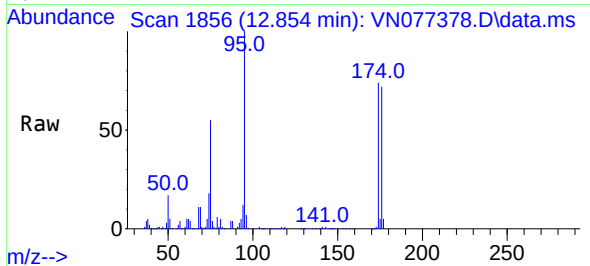




#62
4-Bromofluorobenzene
Concen: 43.683 ug/l
RT: 12.854 min Scan# 1855
Delta R.T. 0.006 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

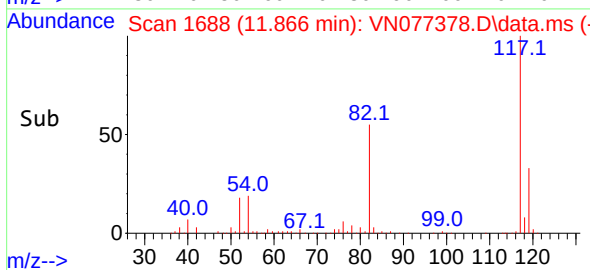
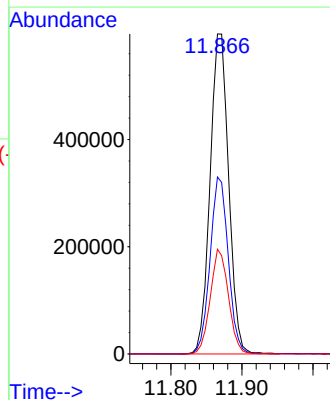
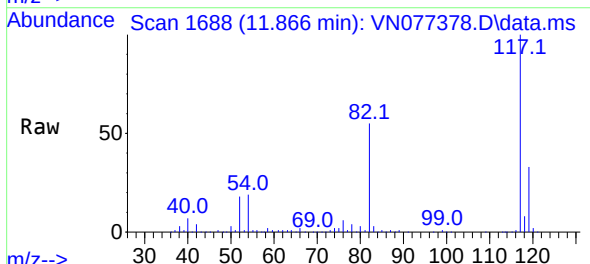
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#06

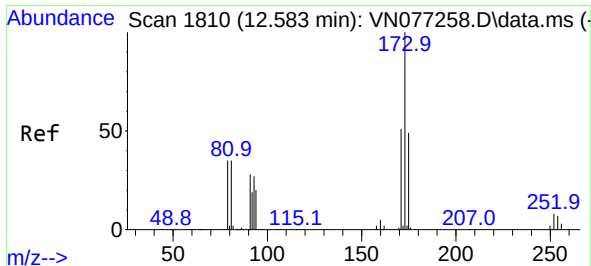
Tgt Ion: 95 Resp: 442117
Ion Ratio Lower Upper
95 100
174 73.0 0.0 146.8
176 70.5 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.005 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

Tgt Ion: 117 Resp: 1084622
Ion Ratio Lower Upper
117 100
82 55.3 42.9 64.3
119 32.7 26.2 39.4

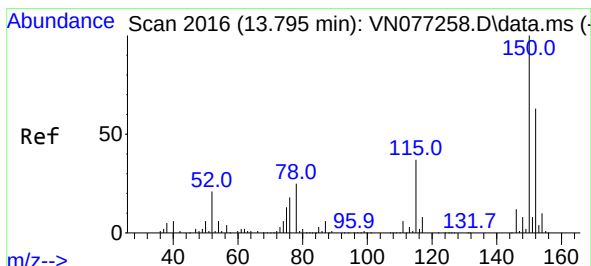
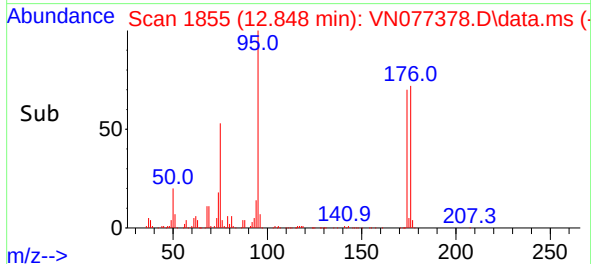
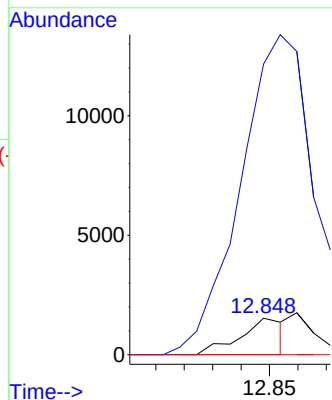
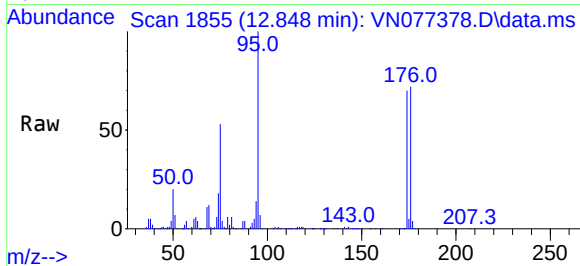




#71
Bromoform
Concen: 0.258 ug/l
RT: 12.848 min Scan# 1810
Delta R.T. 0.265 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

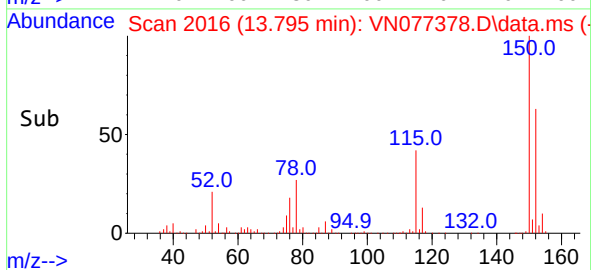
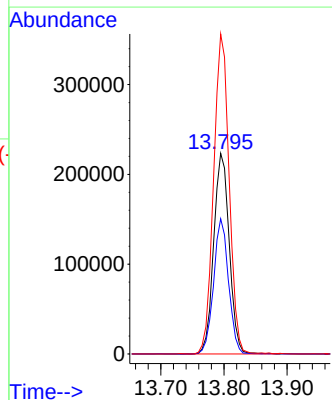
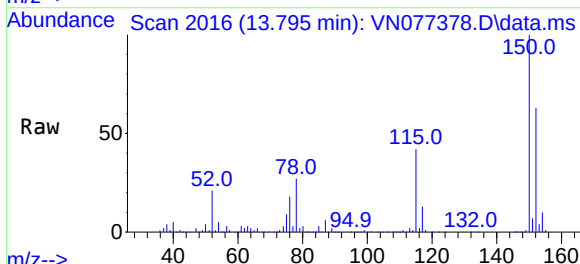
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#06

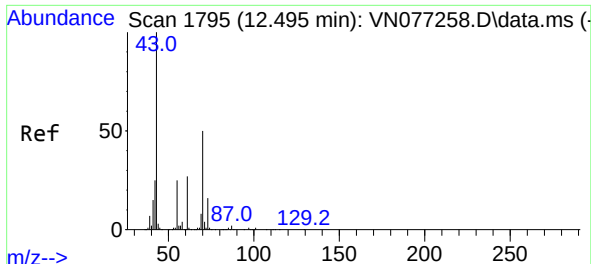
Tgt Ion:173 Resp: 1643
Ion Ratio Lower Upper
173 100
175 1196.0 24.1 72.4#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

Tgt Ion:152 Resp: 381254
Ion Ratio Lower Upper
152 100
115 64.8 32.1 96.3
150 159.1 0.0 354.8

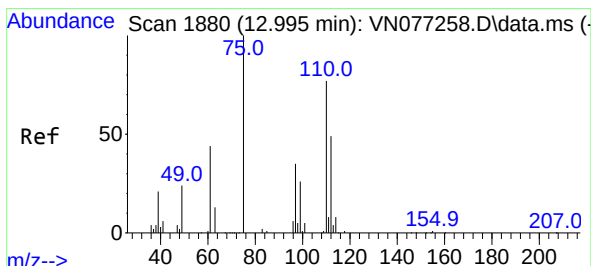
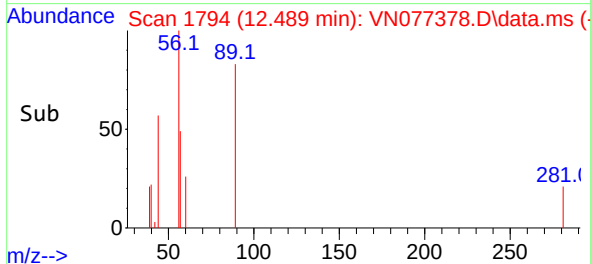
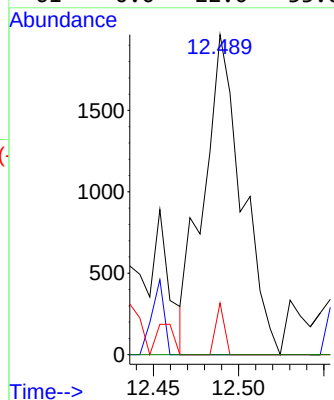
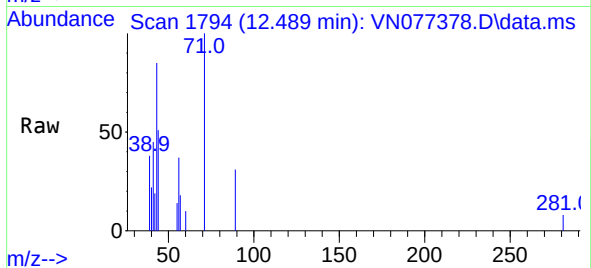




#74
N-amy1 acetate
Concen: 0.221 ug/l
RT: 12.489 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

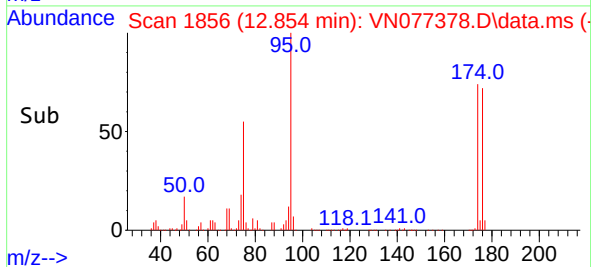
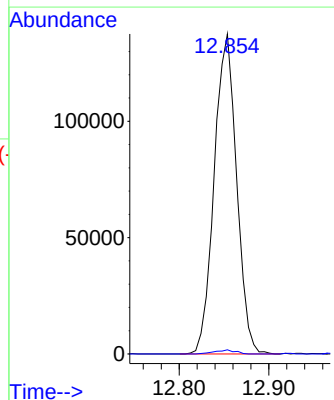
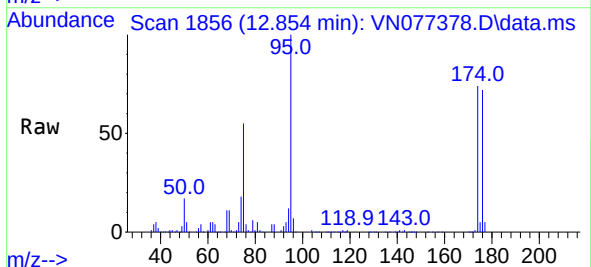
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#06

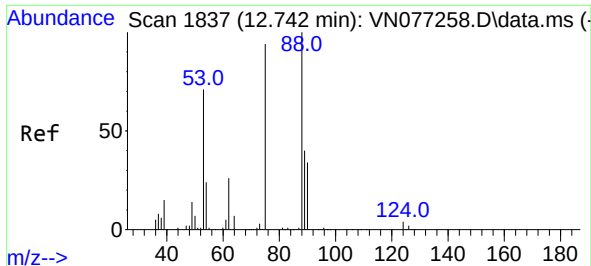
Tgt Ion:	43	Resp:	3106
Ion	Ratio	Lower	Upper
43	100		
70	0.0	41.0	61.6#
55	0.0	19.3	28.9#
61	0.0	22.0	33.0#



#76
1,2,3-Trichloropropane
Concen: 26.246 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077378.D
Acq: 19 Apr 2023 16:21

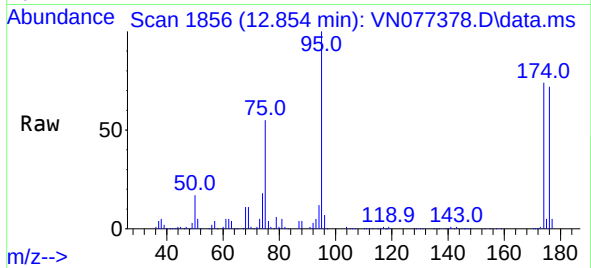
Tgt Ion:	75	Resp:	238279
Ion	Ratio	Lower	Upper
75	100		
77	1.2	88.3	264.9#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.062 ug/l
 RT: 12.854 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN077378.D
 Acq: 19 Apr 2023 16:21

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152199ZHE#06



Tgt Ion: 75 Resp: 238279
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.8 109.2#
 89 0.0 37.4 56.2#

