

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112223\
 Data File : VN080243.D
 Acq On : 22 Nov 2023 13:18
 Operator : JC\MD
 Sample : 05516-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 23 00:19:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 17 01:19:32 2023
 Response via : Initial Calibration

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

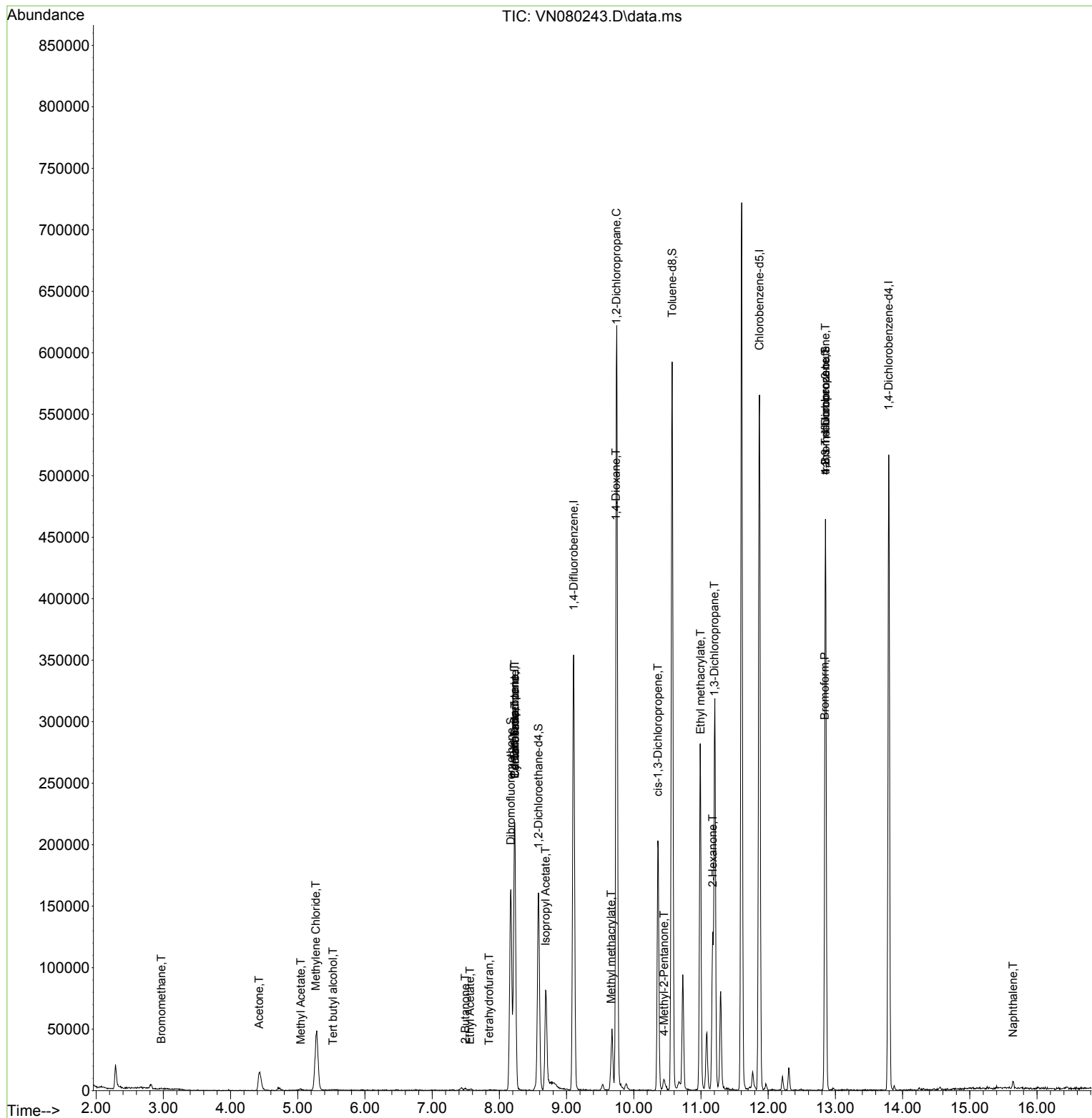
Internal Standards						
1) Pentafluorobenzene	8.230	168	149711	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	292188	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	328677	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	136646	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	144864	58.603	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 117.200%			
35) Dibromofluoromethane	8.171	113	110705	51.348	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.700%			
50) Toluene-d8	10.571	98	413579	53.215	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.440%			
62) 4-Bromofluorobenzene	12.853	95	156647	53.362	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.720%			
Target Compounds					Qvalue	
5) Bromomethane	2.971	94	292	0.242	ug/l #	73
6) Chloroethane	3.136	64	233	Below Cal	#	43
11) Tert butyl alcohol	5.524	59	459	1.688	ug/l #	72
16) Acetone	4.424	43	30734	37.017	ug/l #	85
18) Methyl Acetate	5.047	43	2071	0.776	ug/l #	55
20) Methylene Chloride	5.271	84	39686	22.825	ug/l	97
25) 2-Butanone	7.494	43	2905	2.945	ug/l #	80
29) Tetrahydrofuran	7.847	42	131	0.247	ug/l #	49
31) Cyclohexane	8.230	56	3277	1.219	ug/l #	44
36) 1,1-Dichloropropene	8.224	75	13461	4.312	ug/l #	48
37) Ethyl Acetate	7.565	43	2216	1.023	ug/l #	67
38) Carbon Tetrachloride	8.230	117	17239	4.352	ug/l #	18
43) Isopropyl Acetate	8.688	43	90399	21.456	ug/l #	85
45) 1,2-Dichloropropane	9.741	63	873	0.423	ug/l #	45
48) Methyl methacrylate	9.665	41	2310	1.064	ug/l #	34
49) 1,4-Dioxane	9.735	88	61	1.689	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	8757	4.015	ug/l #	72
54) cis-1,3-Dichloropropene	10.359	75	39359	10.923	ug/l #	70
56) Ethyl methacrylate	10.994	69	1641	0.758	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	3517	0.951	ug/l #	42
59) 2-Hexanone	11.176	43	128807	73.486	ug/l #	19
71) Bromoform	12.841	173	677	0.316	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	89010	26.586	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	89010	89.822	ug/l #	15
95) Naphthalene	15.647	128	6098	0.783	ug/l #	93

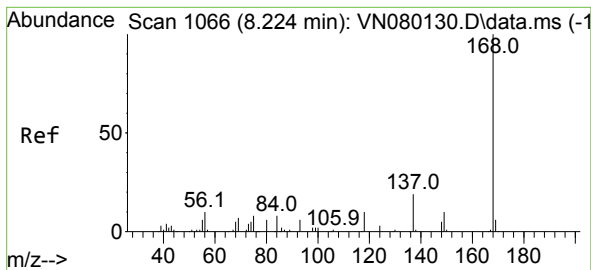
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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Quant Time: Nov 23 00:19:01 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 17 01:19:32 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN080243.D

Acq: 22 Nov 2023 13:18

Instrument :

MSVOA_N

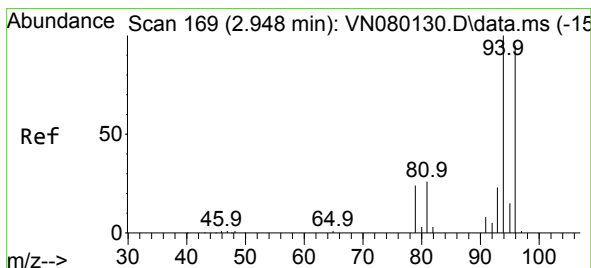
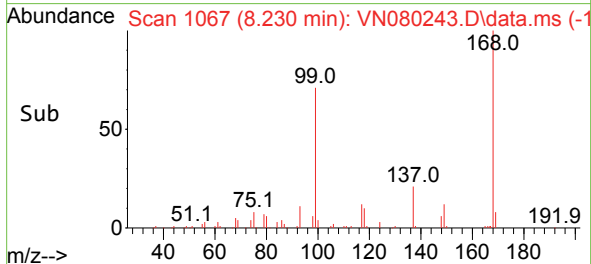
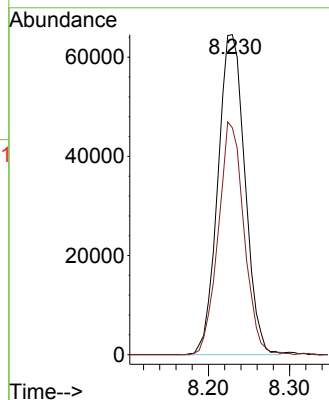
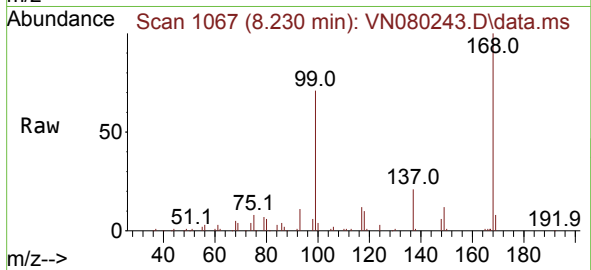
ClientSampleId :

Tgt Ion:168 Resp: 149711

Ion Ratio Lower Upper

168 100

99 70.9 53.0 79.6



#5

Bromomethane

Concen: 0.242 ug/l

RT: 2.971 min Scan# 173

Delta R.T. 0.023 min

Lab File: VN080243.D

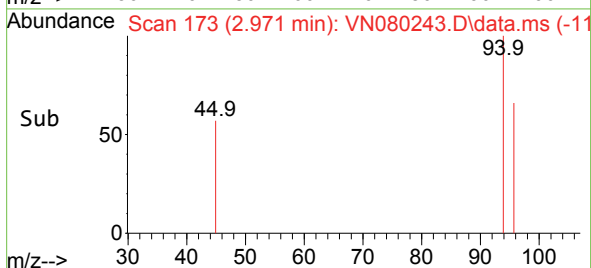
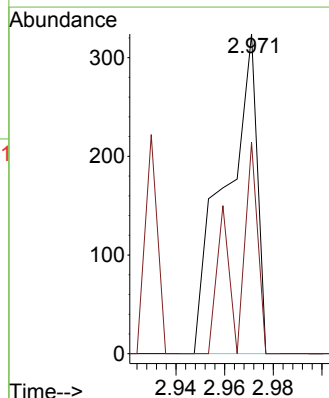
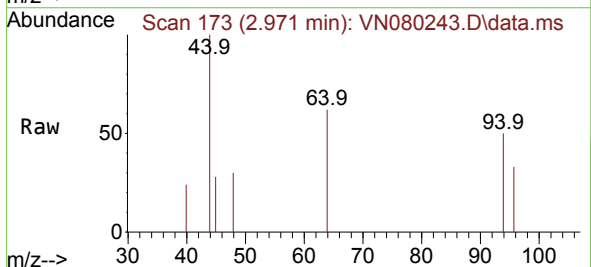
Acq: 22 Nov 2023 13:18

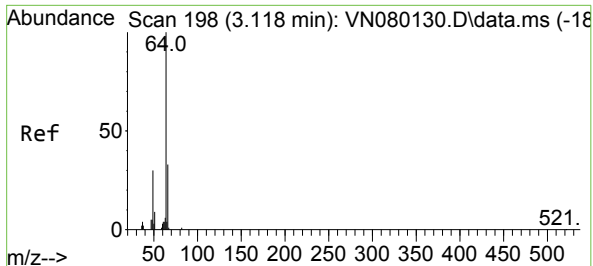
Tgt Ion: 94 Resp: 292

Ion Ratio Lower Upper

94 100

96 66.0 73.1 109.7#





#6

Chloroethane

Concen: Below Cal

RT: 3.136 min Scan# 201

Delta R.T. 0.018 min

Lab File: VN080243.D

Acq: 22 Nov 2023 13:18

Instrument :

MSVOA_N

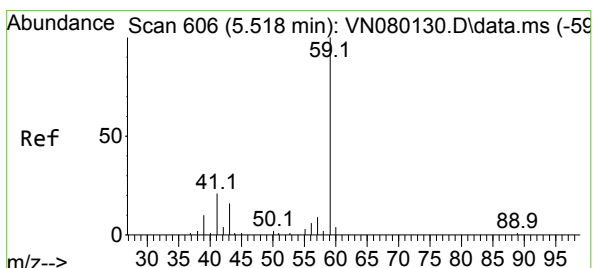
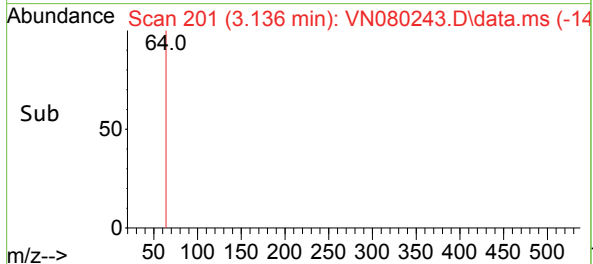
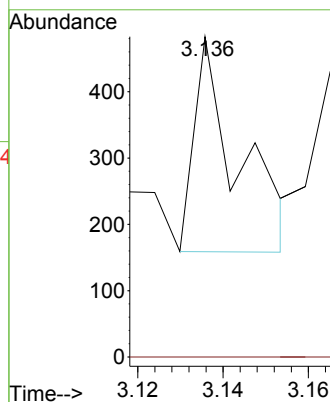
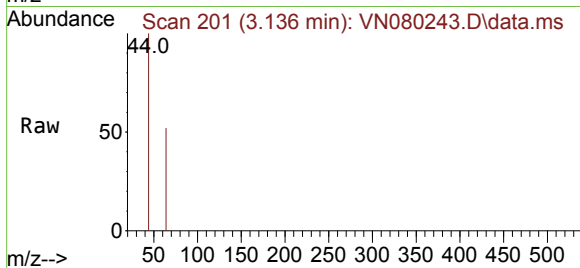
ClientSampleId :

Tgt Ion: 64 Resp: 233

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.2#



#11

Tert butyl alcohol

Concen: 1.688 ug/l

RT: 5.524 min Scan# 607

Delta R.T. 0.006 min

Lab File: VN080243.D

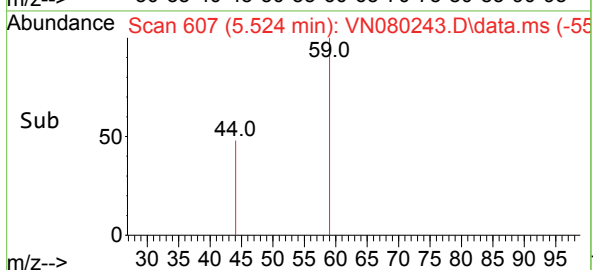
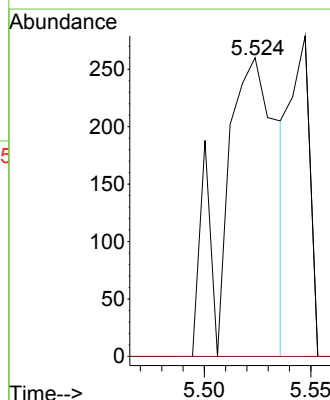
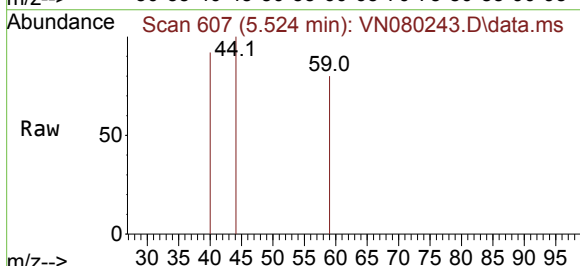
Acq: 22 Nov 2023 13:18

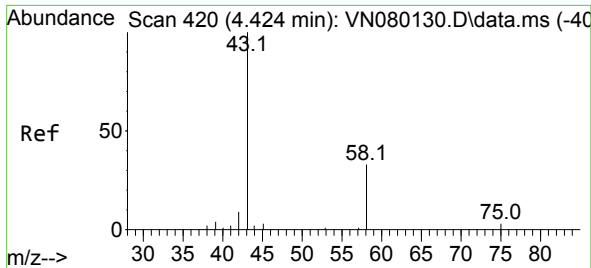
Tgt Ion: 59 Resp: 459

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#





#16

Acetone

Concen: 37.017 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN080243.D

Acq: 22 Nov 2023 13:18

Instrument :

MSVOA_N

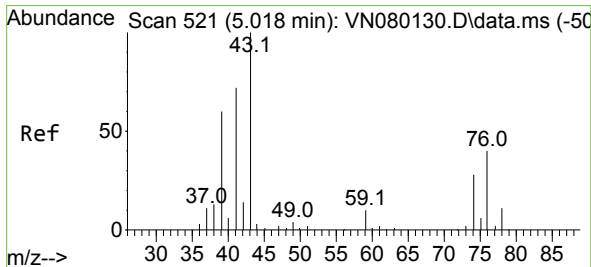
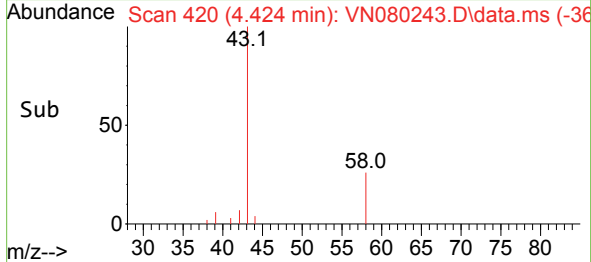
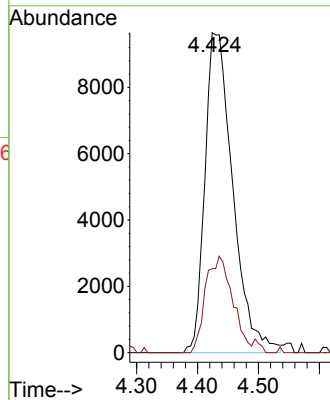
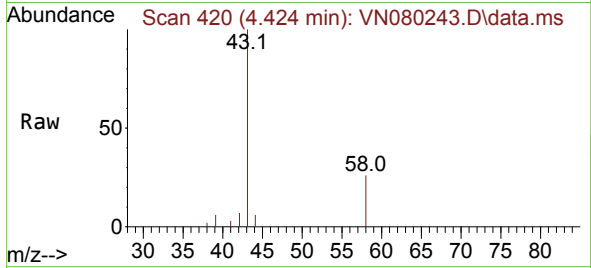
ClientSampleId :

Tgt Ion: 43 Resp: 30734

Ion Ratio Lower Upper

43 100

58 26.3 28.0 42.0#



#18

Methyl Acetate

Concen: 0.776 ug/l

RT: 5.047 min Scan# 526

Delta R.T. 0.029 min

Lab File: VN080243.D

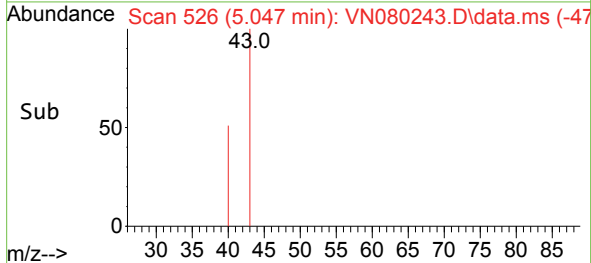
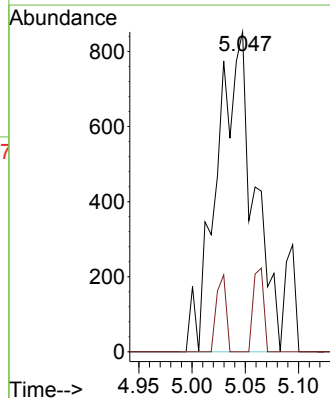
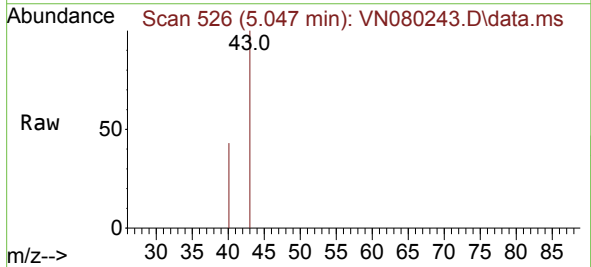
Acq: 22 Nov 2023 13:18

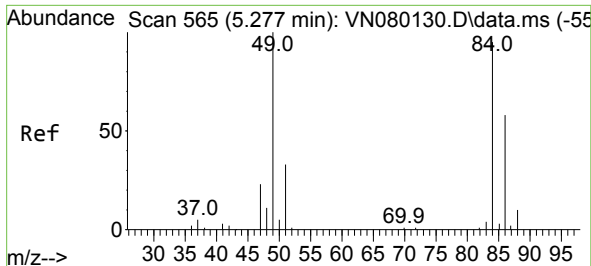
Tgt Ion: 43 Resp: 2071

Ion Ratio Lower Upper

43 100

74 7.3 26.2 39.4#

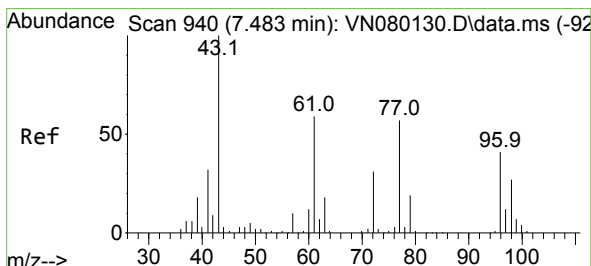
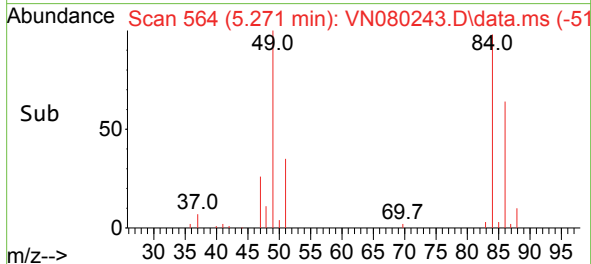
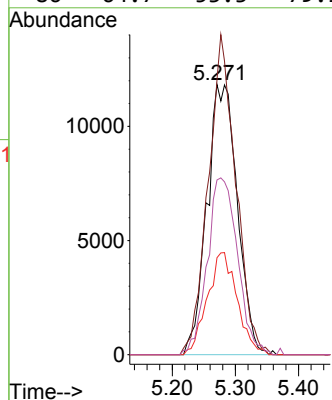
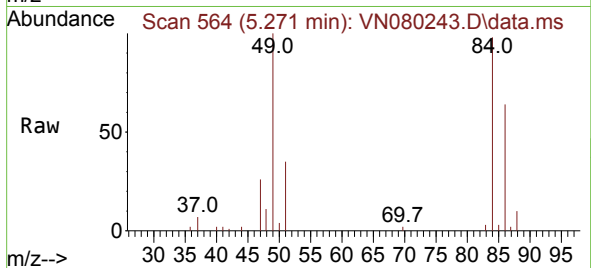




#20
Methylene Chloride
Concen: 22.825 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

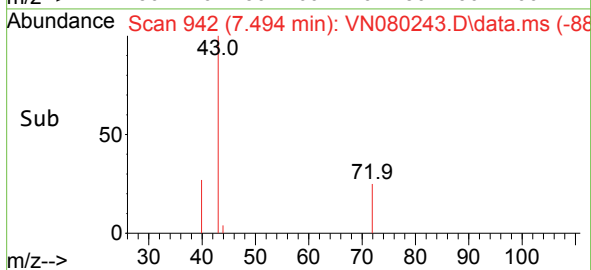
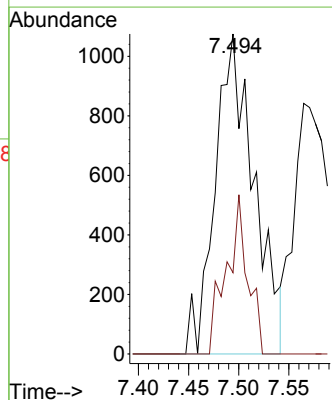
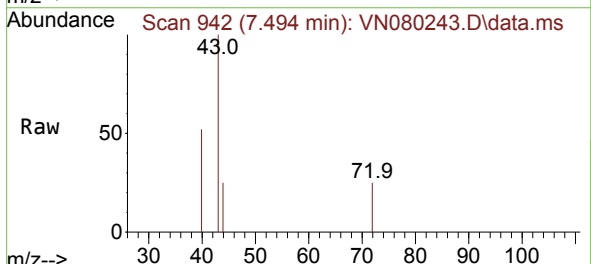
Instrument :
MSVOA_N
ClientSampleId :

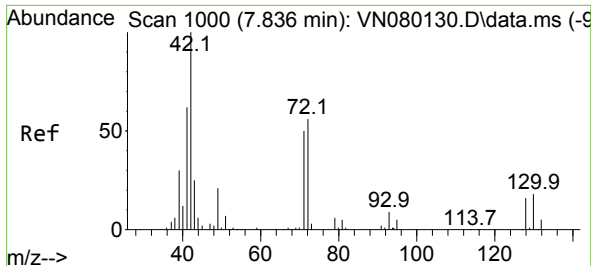
Tgt Ion:	84	Resp:	39686
Ion	Ratio	Lower	Upper
84	100		
49	101.8	79.7	119.5
51	35.9	25.2	37.8
86	64.7	53.3	79.9



#25
2-Butanone
Concen: 2.945 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.012 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

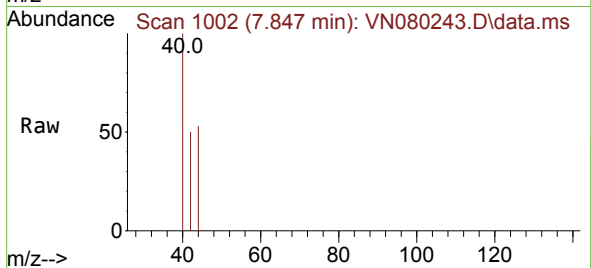
Tgt Ion:	43	Resp:	2905
Ion	Ratio	Lower	Upper
43	100		
72	25.4	30.2	45.2#



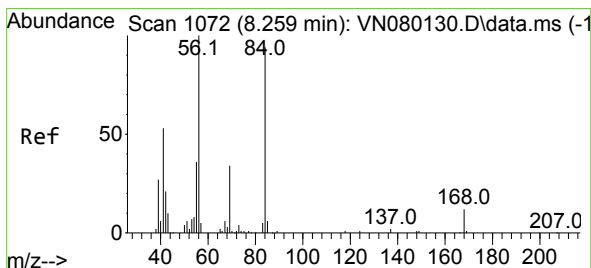
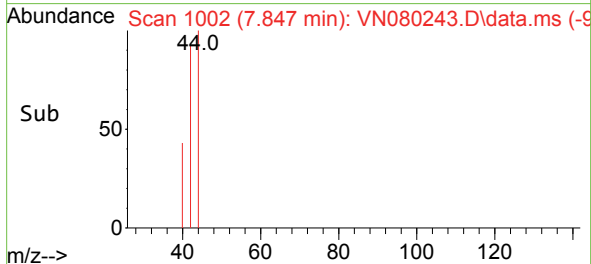
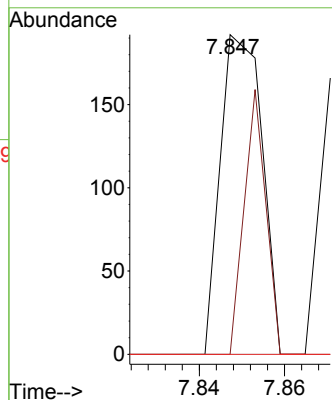


#29
Tetrahydrofuran
Concen: 0.247 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

Instrument :
MSVOA_N
ClientSampleId :

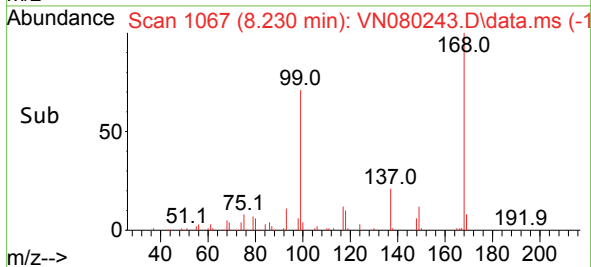
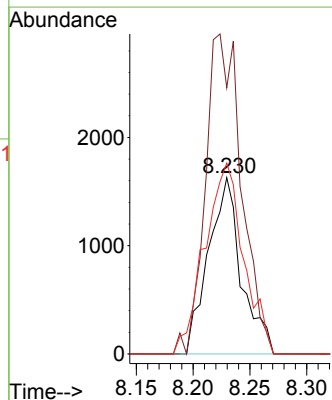
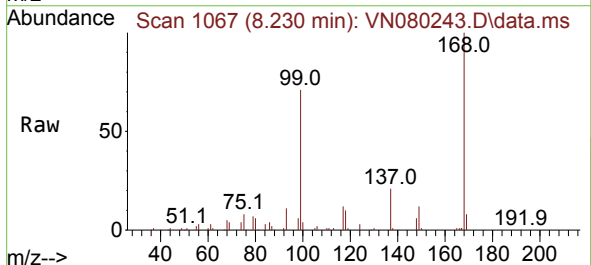


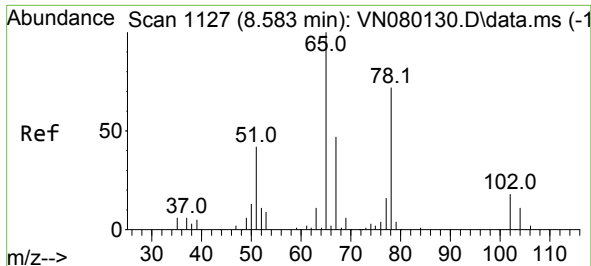
Tgt Ion: 42 Resp: 131
Ion Ratio Lower Upper
42 100
72 42.7 49.8 74.6#
71 0.0 47.4 71.2#



#31
Cyclohexane
Concen: 1.219 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.030 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

Tgt Ion: 56 Resp: 3277
Ion Ratio Lower Upper
56 100
69 151.1 26.8 40.2#
84 108.3 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 58.603 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN080243.D

Acq: 22 Nov 2023 13:18

Instrument :

MSVOA_N

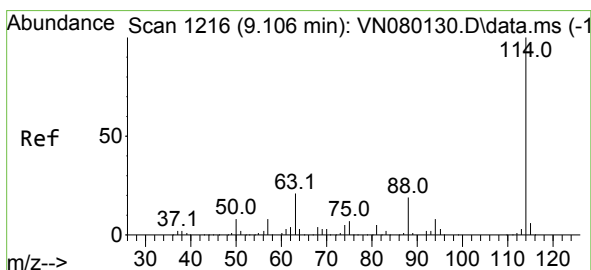
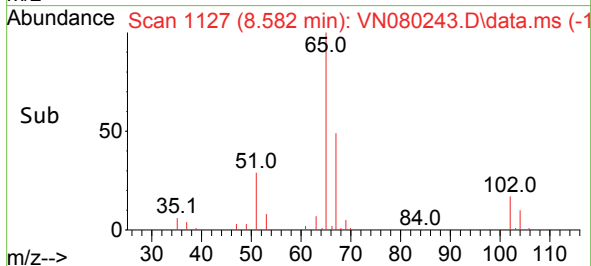
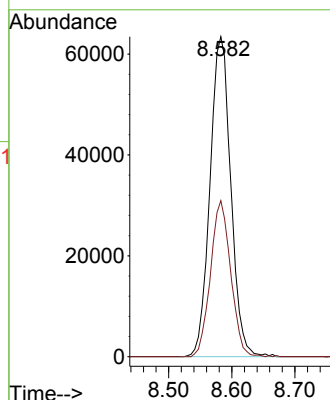
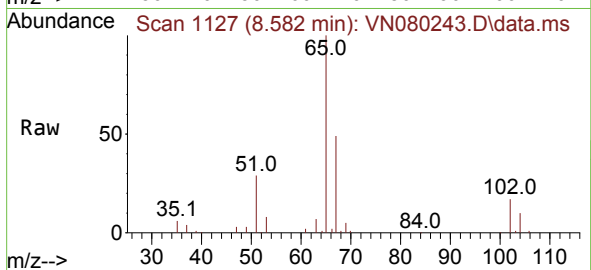
ClientSampleId :

Tgt Ion: 65 Resp: 144864

Ion Ratio Lower Upper

65 100

67 47.3 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN080243.D

Acq: 22 Nov 2023 13:18

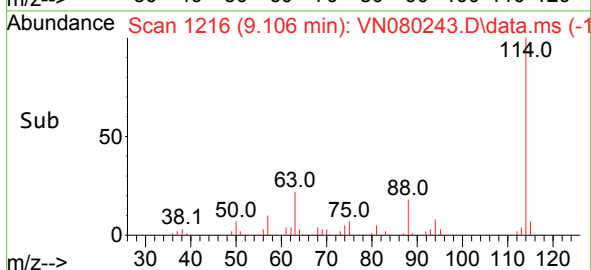
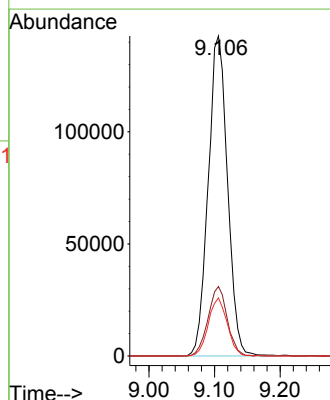
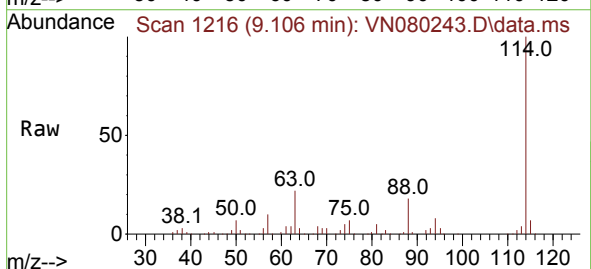
Tgt Ion: 114 Resp: 292188

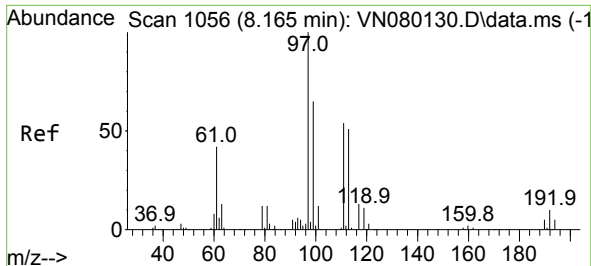
Ion Ratio Lower Upper

114 100

63 21.7 0.0 36.4

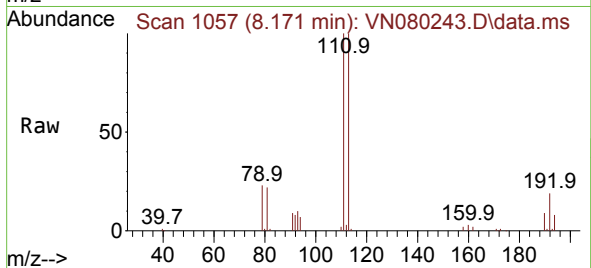
88 18.2 0.0 30.6



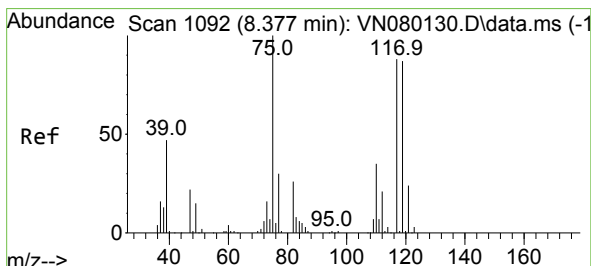
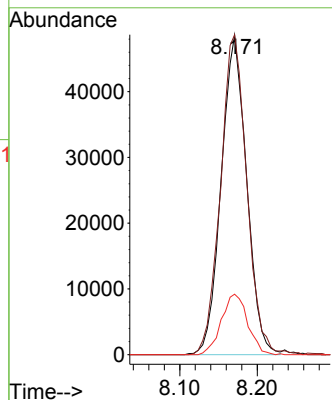
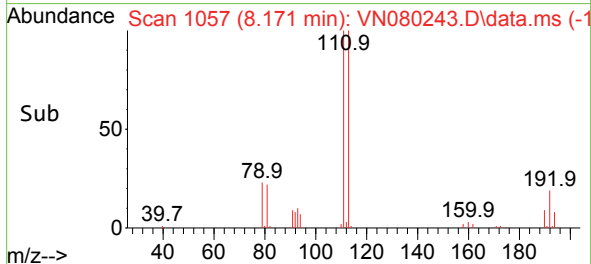


#35
Dibromofluoromethane
Concen: 51.348 ug/l
RT: 8.171 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

Instrument :
MSVOA_N
ClientSampleId :

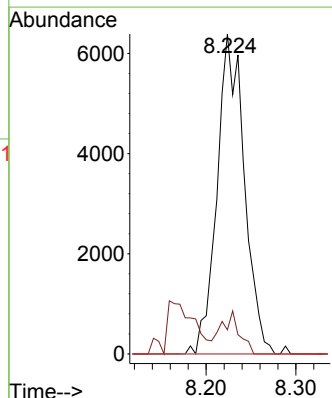
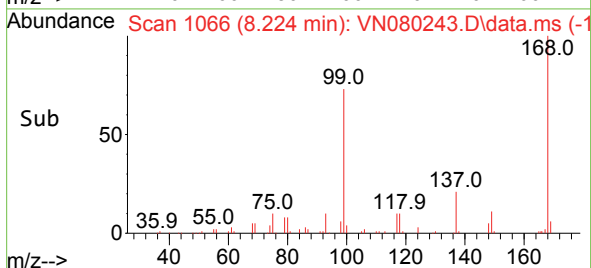
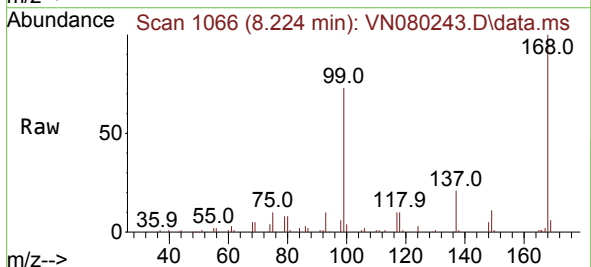


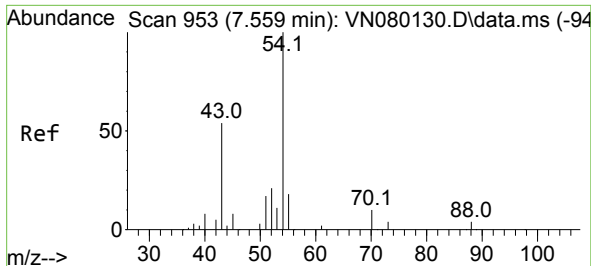
Tgt Ion:113 Resp: 110705
Ion Ratio Lower Upper
113 100
111 103.6 82.6 123.8
192 19.6 12.7 19.1#



#36
1,1-Dichloropropene
Concen: 4.312 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

Tgt Ion: 75 Resp: 13461
Ion Ratio Lower Upper
75 100
110 8.8 19.1 57.3#
77 0.0 25.0 37.4#

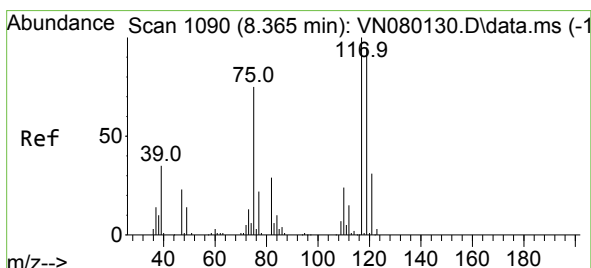
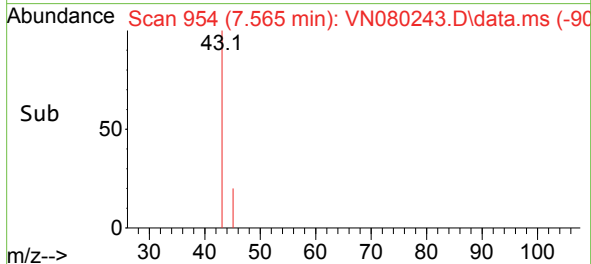
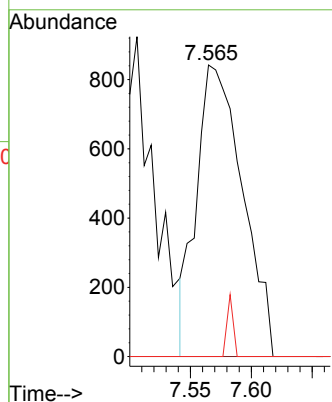
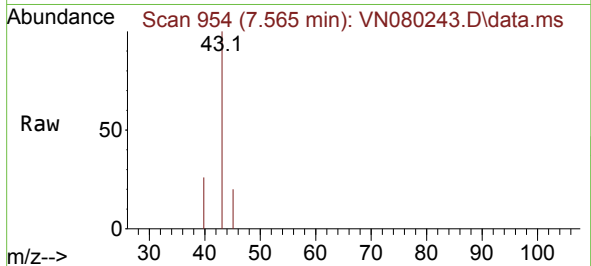




#37
Ethyl Acetate
Concen: 1.023 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

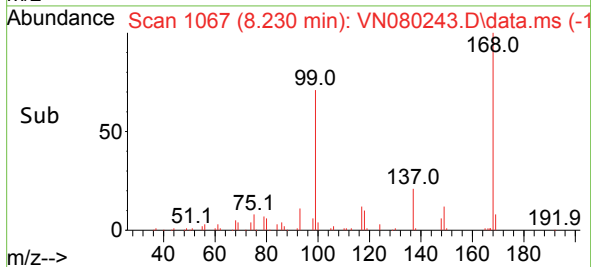
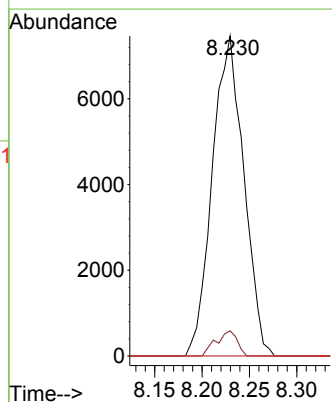
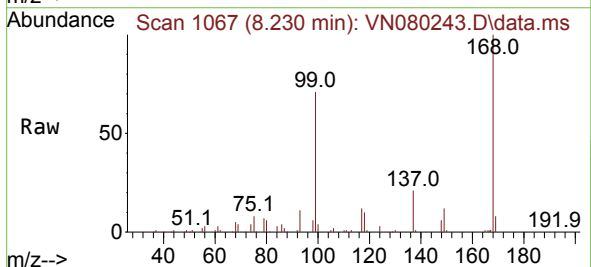
Instrument :
MSVOA_N
ClientSampleId :

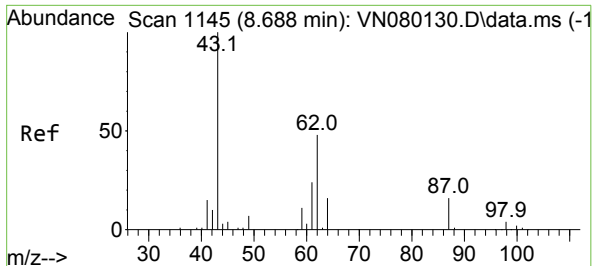
Tgt Ion: 43 Resp: 2216
Ion Ratio Lower Upper
43 100
61 0.0 13.2 19.8#
70 2.8 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 4.352 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.135 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

Tgt Ion: 117 Resp: 17239
Ion Ratio Lower Upper
117 100
119 7.8 77.3 115.9#
121 0.0 23.3 34.9#

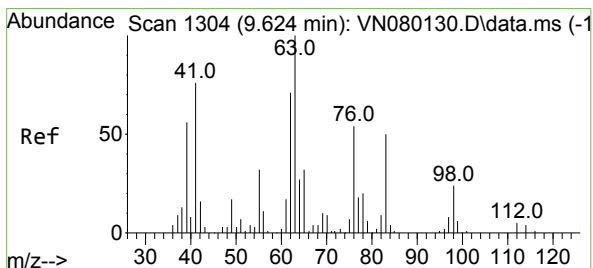
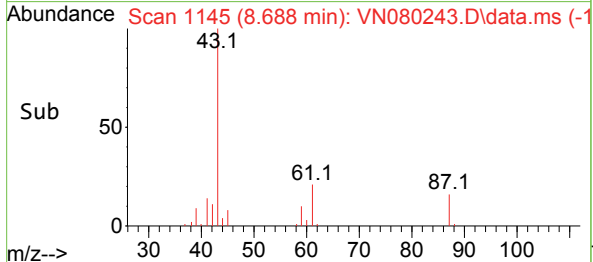
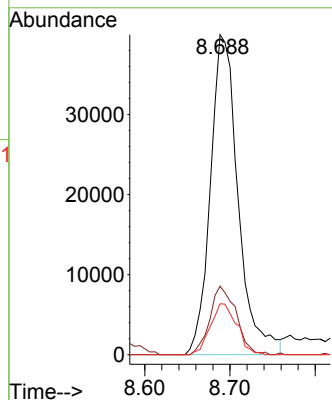
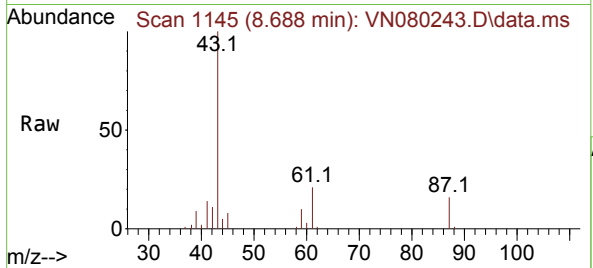




#43
Isopropyl Acetate
Concen: 21.456 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

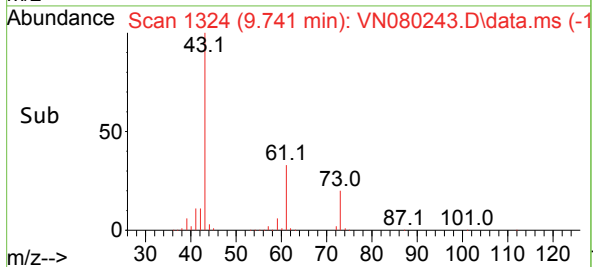
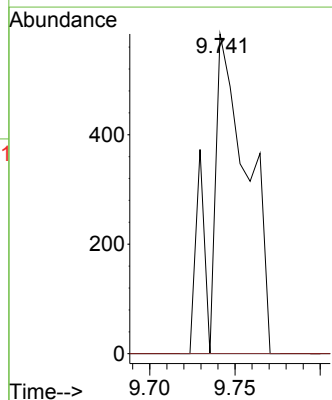
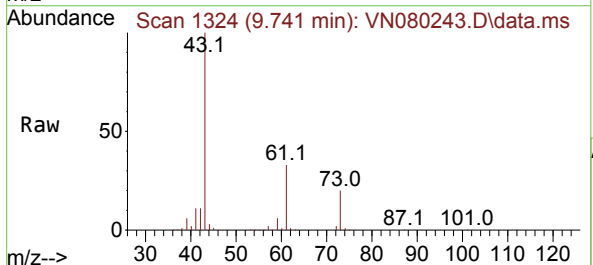
Instrument :
MSVOA_N
ClientSampleId :

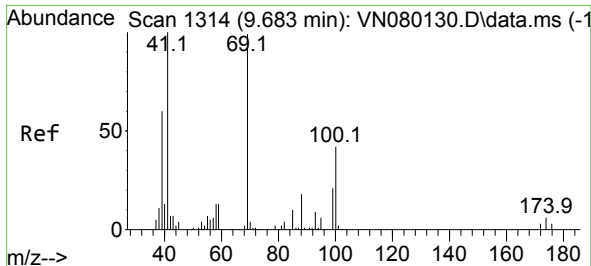
Tgt Ion: 43 Resp: 90399
Ion Ratio Lower Upper
43 100
61 20.3 24.7 37.1#
87 15.2 14.6 21.8



#45
1,2-Dichloropropane
Concen: 0.423 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.117 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

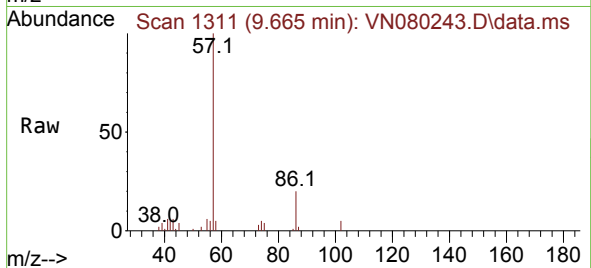
Tgt Ion: 63 Resp: 873
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



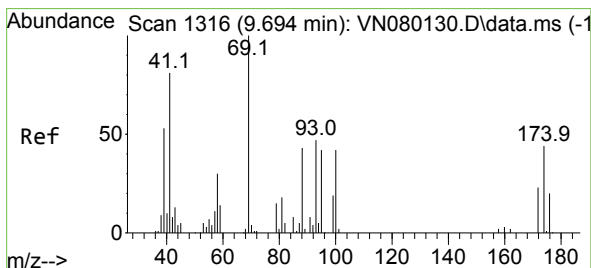
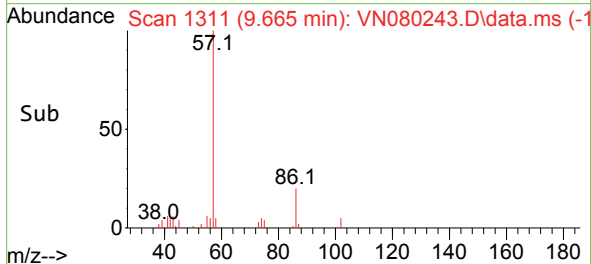
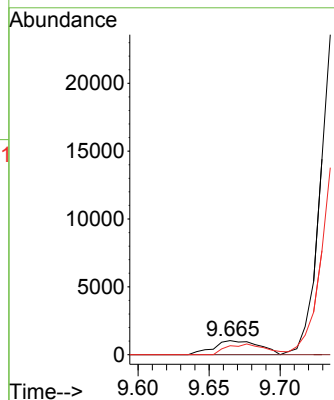


#48
Methyl methacrylate
Concen: 1.064 ug/l
RT: 9.665 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

Instrument :
MSVOA_N
ClientSampleId :

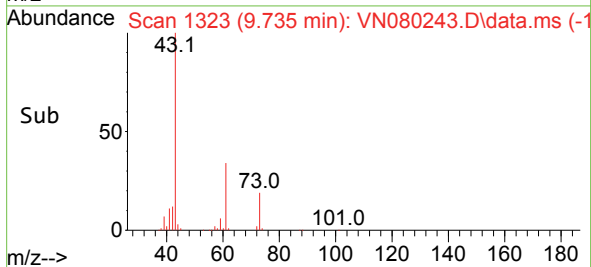
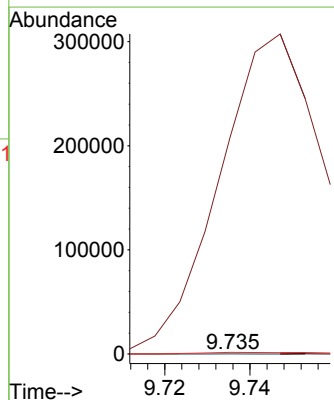
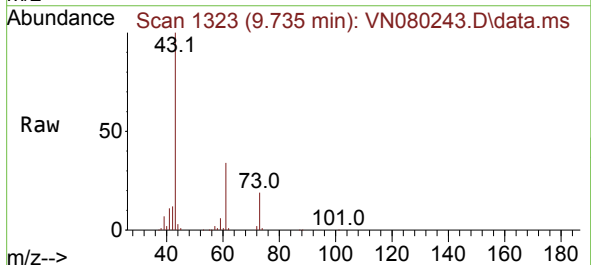


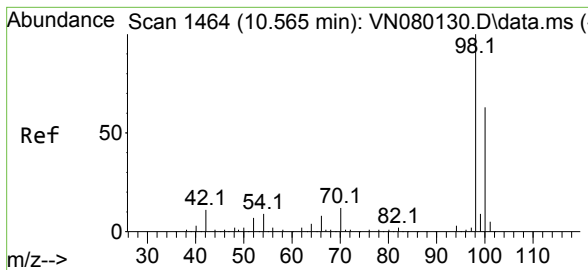
Tgt Ion: 41 Resp: 2310
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 67.4 54.6 81.8



#49
1,4-Dioxane
Concen: 1.689 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.041 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

Tgt Ion: 88 Resp: 61
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 5170.5 47.0 70.4#

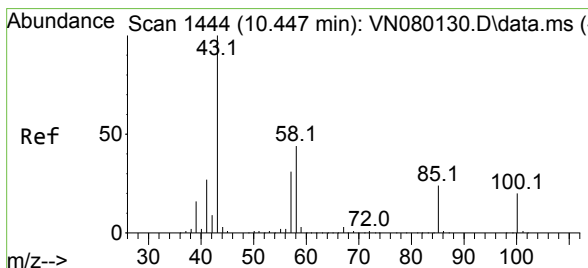
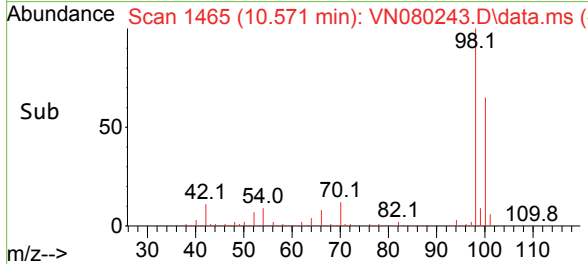
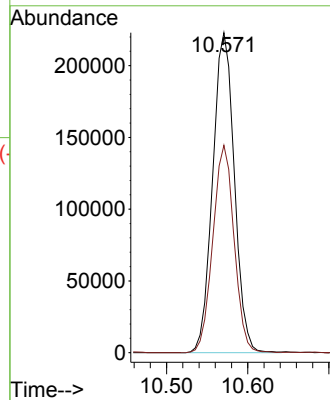
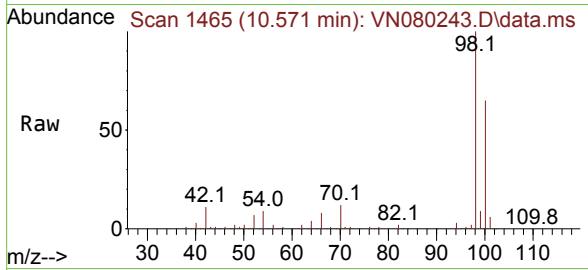




#50
Toluene-d8
Concen: 53.215 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

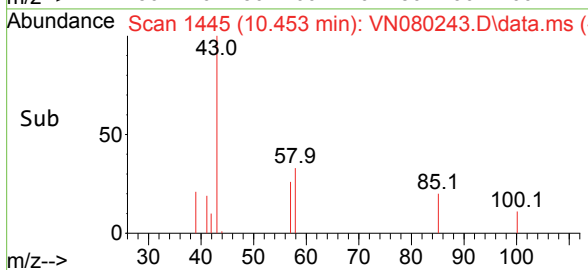
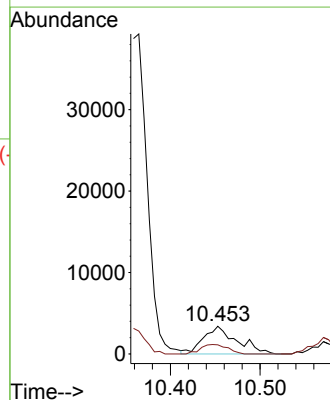
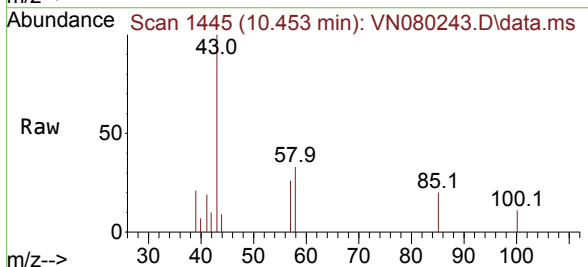
Instrument :
MSVOA_N
ClientSampleId :

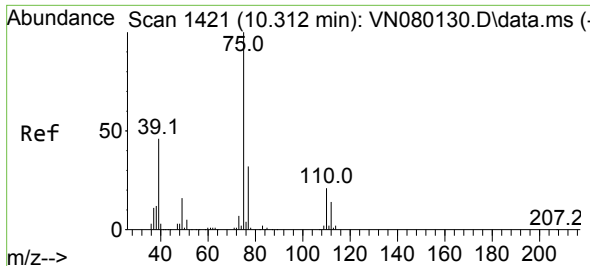
Tgt Ion: 98 Resp: 413579
Ion Ratio Lower Upper
98 100
100 63.6 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 4.015 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

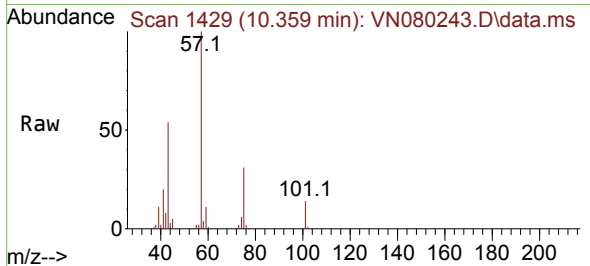
Tgt Ion: 43 Resp: 8757
Ion Ratio Lower Upper
43 100
58 27.6 36.6 54.8#



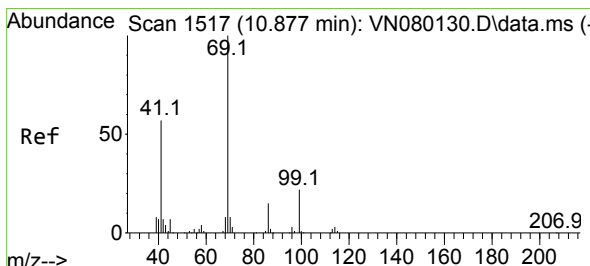
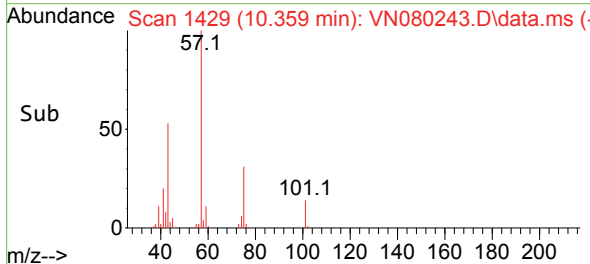
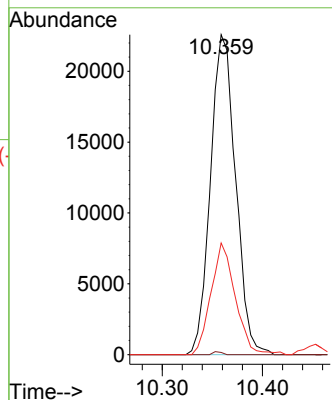


#54
 cis-1,3-Dichloropropene
 Concen: 10.923 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN080243.D
 Acq: 22 Nov 2023 13:18

Instrument :
 MSVOA_N
 ClientSampleId :

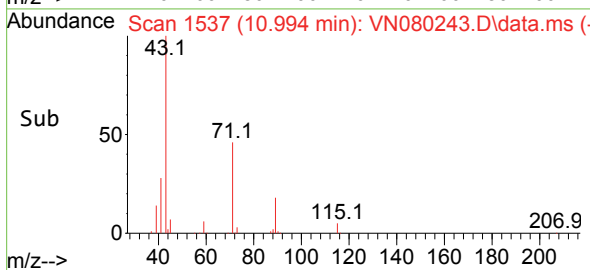
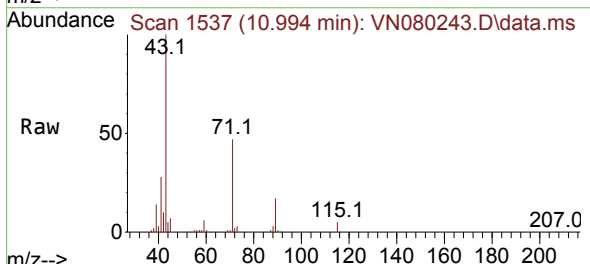
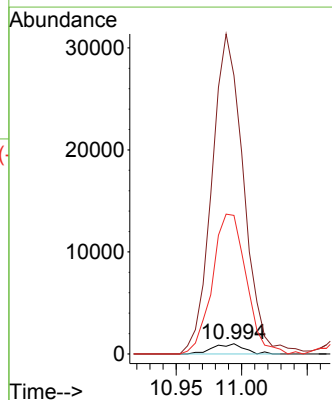


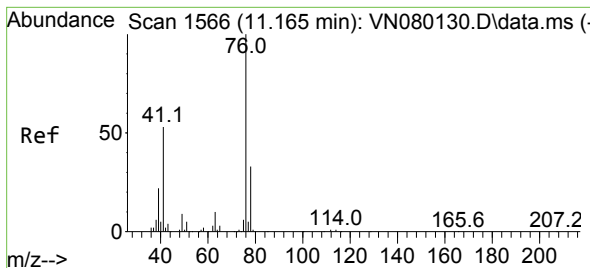
Tgt Ion: 75 Resp: 39359
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.1 39.1#
 39 34.9 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.758 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. 0.117 min
 Lab File: VN080243.D
 Acq: 22 Nov 2023 13:18

Tgt Ion: 69 Resp: 1641
 Ion Ratio Lower Upper
 69 100
 41 3226.1 39.6 59.4#
 39 1504.7 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 0.951 ug/l

RT: 11.200 min Scan# 1

Delta R.T. 0.035 min

Lab File: VN080243.D

Acq: 22 Nov 2023 13:18

Instrument :

MSVOA_N

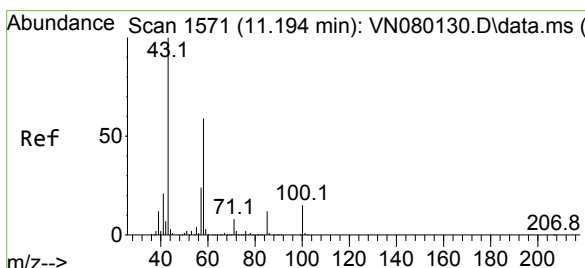
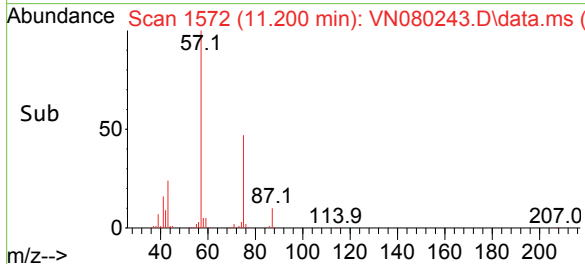
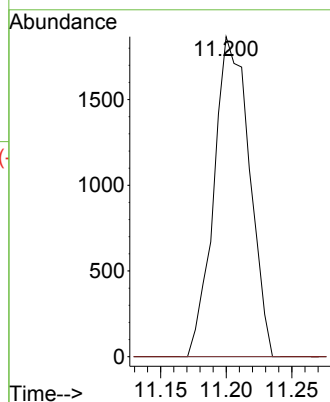
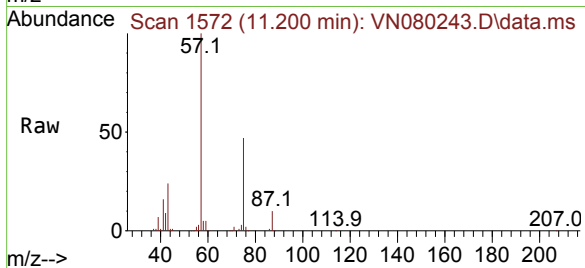
ClientSampleId :

Tgt Ion: 76 Resp: 3517

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 73.486 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.018 min

Lab File: VN080243.D

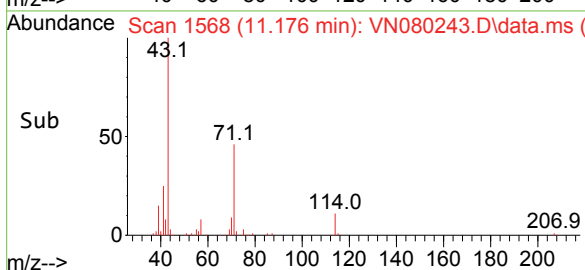
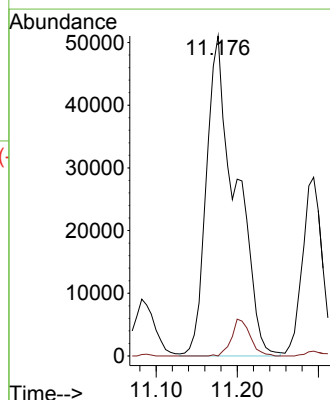
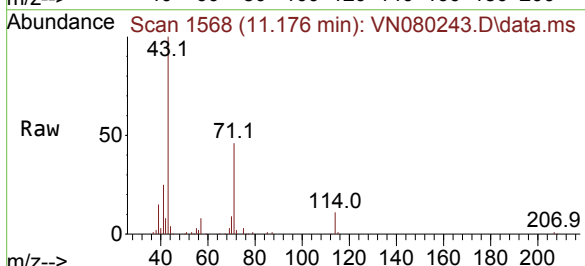
Acq: 22 Nov 2023 13:18

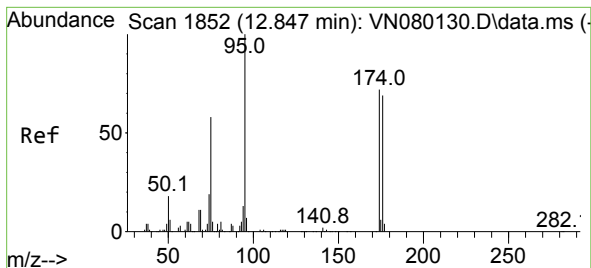
Tgt Ion: 43 Resp: 128807

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

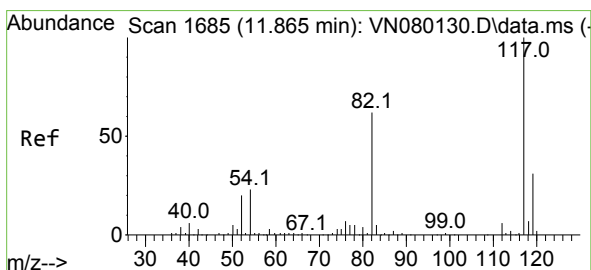
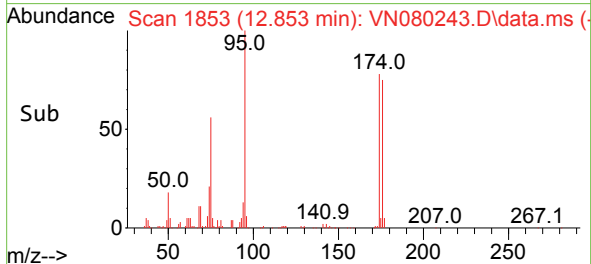
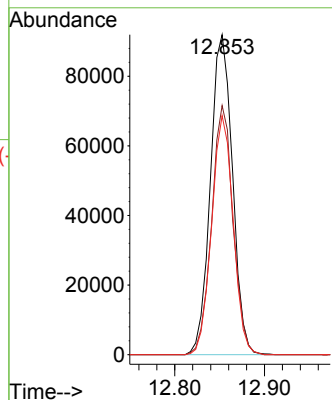
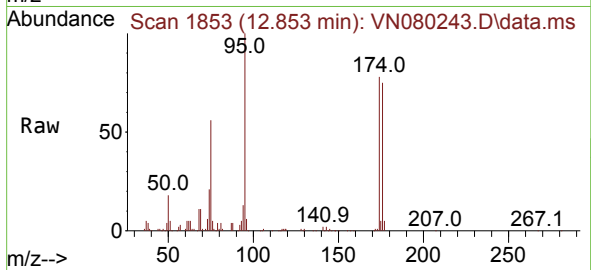




#62
4-Bromofluorobenzene
Concen: 53.362 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

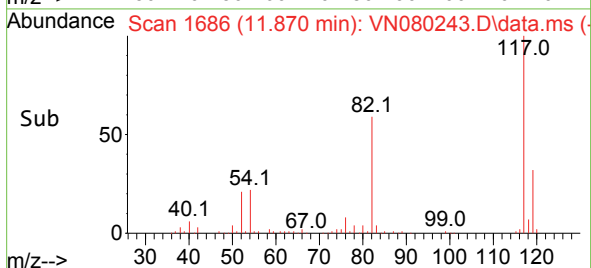
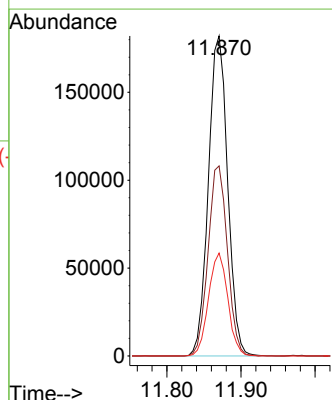
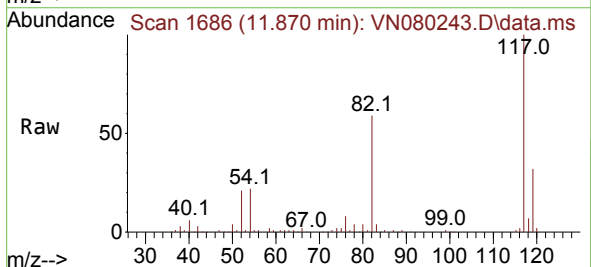
Instrument :
MSVOA_N
ClientSampleId :

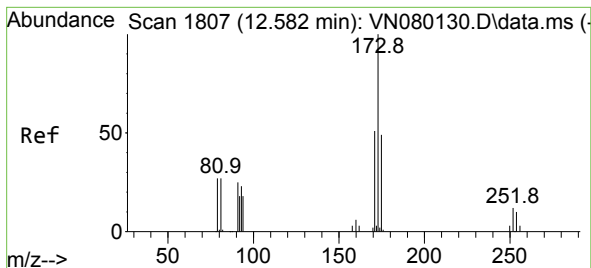
Tgt Ion: 95 Resp: 156647
Ion Ratio Lower Upper
95 100
174 75.9 0.0 143.8
176 72.9 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

Tgt Ion: 117 Resp: 328677
Ion Ratio Lower Upper
117 100
82 59.4 44.0 66.0
119 32.1 25.6 38.4





#71

Bromoform

Concen: 0.316 ug/l

RT: 12.841 min Scan# 1807

Delta R.T. 0.259 min

Lab File: VN080243.D

Acq: 22 Nov 2023 13:18

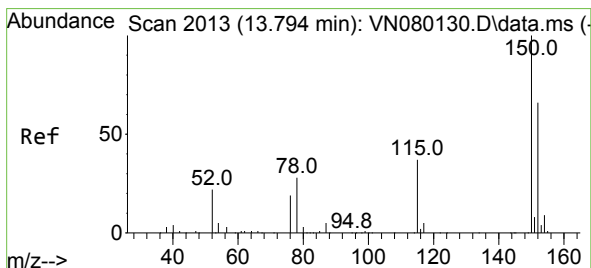
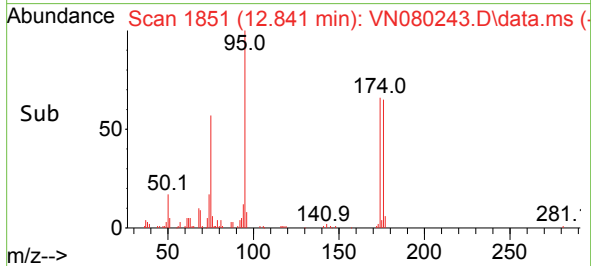
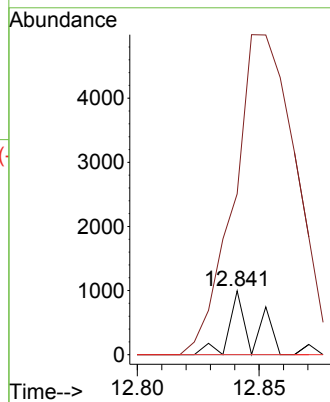
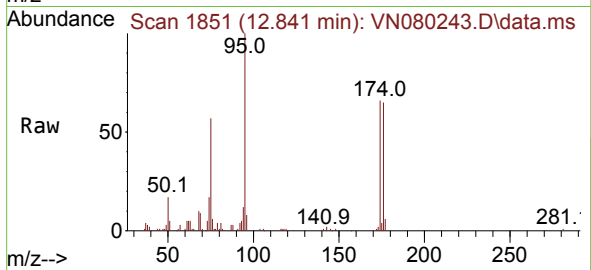
Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:173 Resp: 677

Ion	Ratio	Lower	Upper
173	100		
175	1016.4	24.3	73.0#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

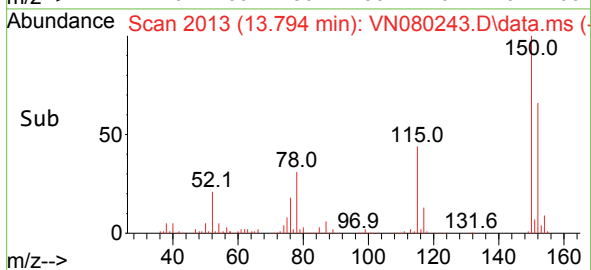
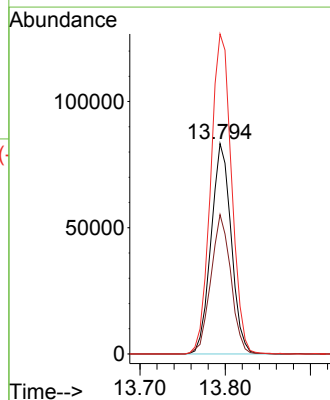
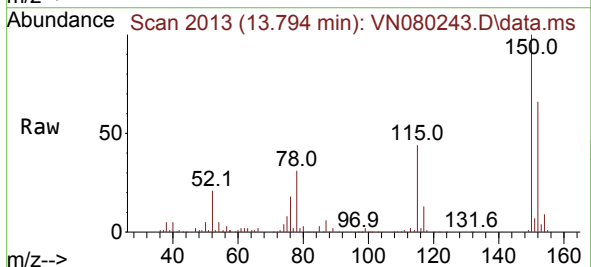
Delta R.T. -0.000 min

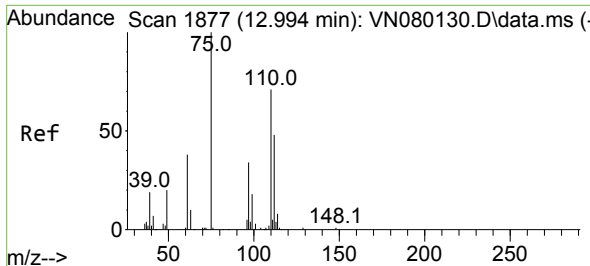
Lab File: VN080243.D

Acq: 22 Nov 2023 13:18

Tgt Ion:152 Resp: 136646

Ion	Ratio	Lower	Upper
152	100		
115	65.8	32.3	96.8
150	158.1	0.0	355.8

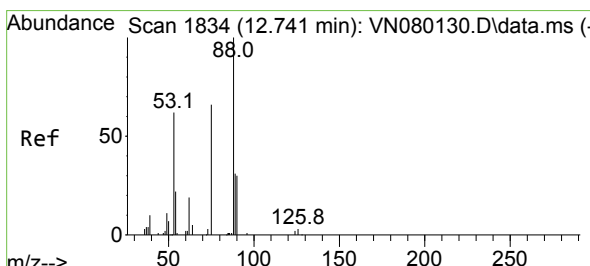
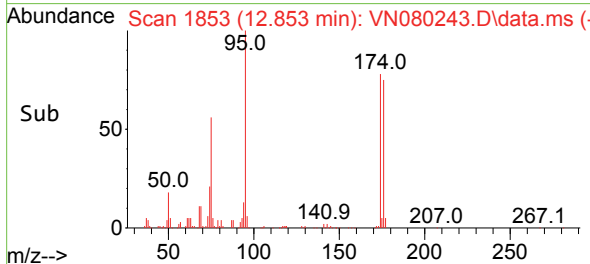
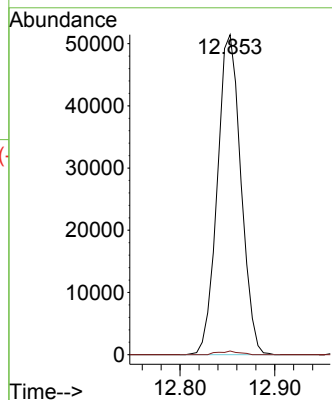
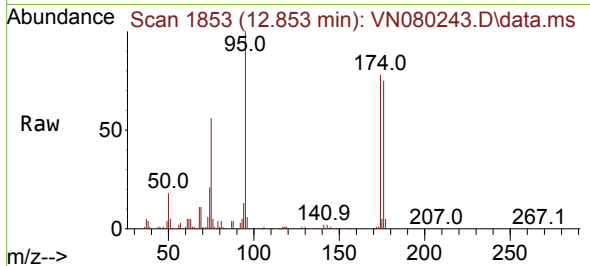




#76
1,2,3-Trichloropropane
Concen: 26.586 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

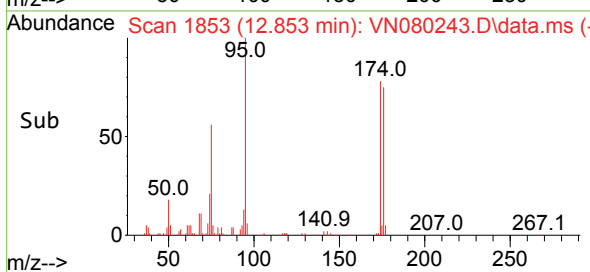
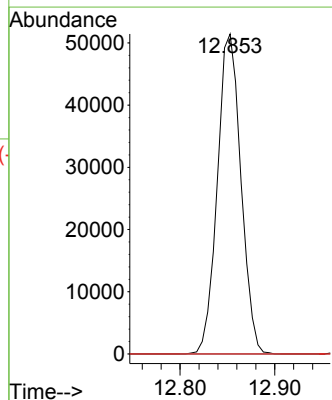
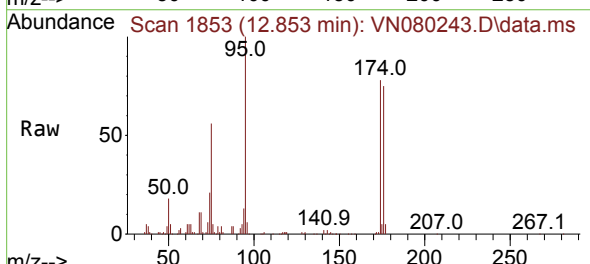
Instrument :
MSVOA_N
ClientSampleId :

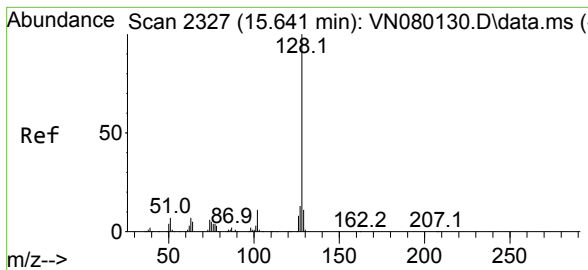
Tgt Ion: 75 Resp: 89010
Ion Ratio Lower Upper
75 100
77 1.0 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 89.822 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

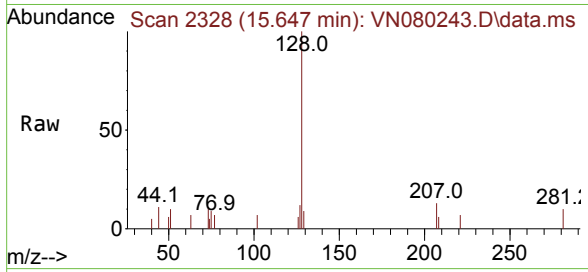
Tgt Ion: 75 Resp: 89010
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#





#95
Naphthalene
Concen: 0.783 ug/l
RT: 15.647 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN080243.D
Acq: 22 Nov 2023 13:18

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
128	100		
127	11.1	10.0	15.0
129	6.6	8.7	13.1

