

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100423\
 Data File : VN079413.D
 Acq On : 04 Oct 2023 19:12
 Operator : JC\MD
 Sample : 04714-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 05 02:26:12 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091123W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 12 05:05:24 2023
 Response via : Initial Calibration

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

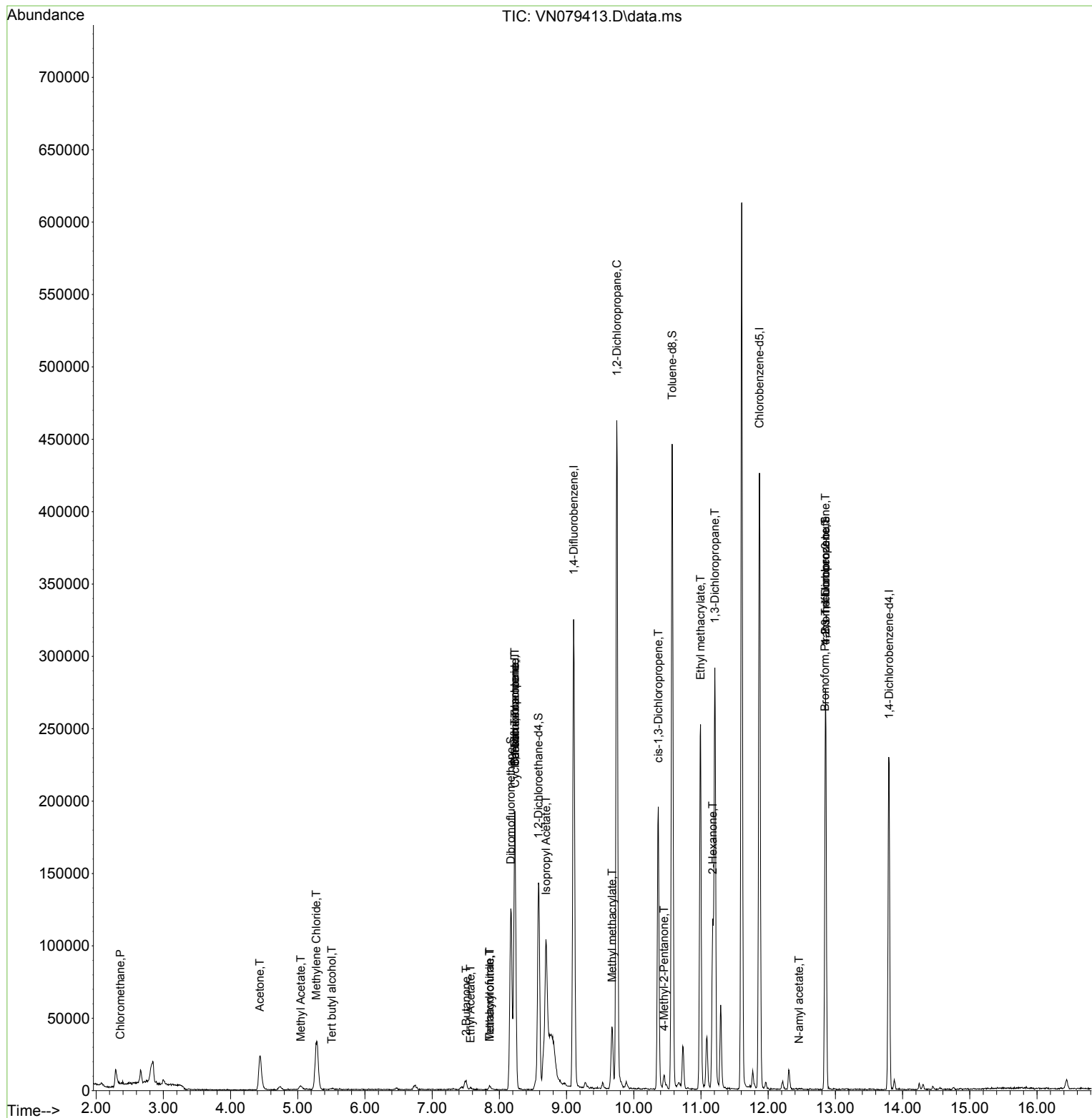
Internal Standards						
1) Pentafluorobenzene	8.230	168	127917	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	262860	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	239540	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	59736	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	117407	67.993	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 135.980%#			
35) Dibromofluoromethane	8.171	113	91177	52.146	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.300%			
50) Toluene-d8	10.571	98	298669	46.520	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.040%			
62) 4-Bromofluorobenzene	12.853	95	89690	43.796	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 87.600%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	388	0.234	ug/l #	42
6) Chloroethane	3.077	64	306	Below Cal	#	43
11) Tert butyl alcohol	5.506	59	653	2.048	ug/l #	72
16) Acetone	4.436	43	46512	63.423	ug/l	94
18) Methyl Acetate	5.047	43	5735	1.903	ug/l #	81
20) Methylene Chloride	5.277	84	26683	14.951	ug/l #	83
25) 2-Butanone	7.506	43	11047	10.382	ug/l #	74
29) Tetrahydrofuran	7.853	42	1769	2.612	ug/l #	49
31) Cyclohexane	8.235	56	3504	1.390	ug/l #	34
36) 1,1-Dichloropropene	8.230	75	12547	4.655	ug/l #	43
37) Ethyl Acetate	7.571	43	2589	0.963	ug/l #	66
38) Carbon Tetrachloride	8.230	117	14314	5.132	ug/l #	16
41) Methacrylonitrile	7.859	41	1038	0.766	ug/l #	32
43) Isopropyl Acetate	8.694	43	146195	33.331	ug/l #	68
45) 1,2-Dichloropropane	9.747	63	411	0.201	ug/l #	45
48) Methyl methacrylate	9.676	41	3110	1.583	ug/l #	29
51) 4-Methyl-2-Pentanone	10.453	43	9130	3.586	ug/l #	71
54) cis-1,3-Dichloropropene	10.365	75	31088	9.682	ug/l #	69
56) Ethyl methacrylate	10.994	69	2240	0.798	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	2893	0.841	ug/l #	42
58) 2-Chloroethyl Vinyl ether	10.176	63	121	Below Cal	#	42
59) 2-Hexanone	11.176	43	126477	68.582	ug/l #	19
71) Bromoform	12.847	173	960	0.639	ug/l #	28
74) N-amyl acetate	12.459	43	985	0.478	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	52001	32.299	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	52001	88.798	ug/l #	15

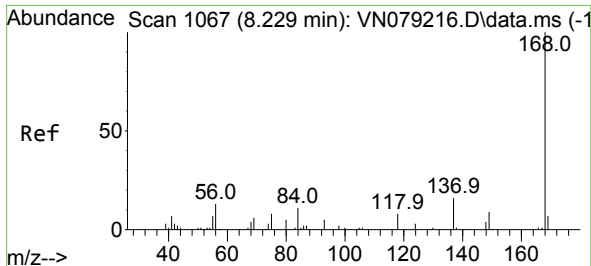
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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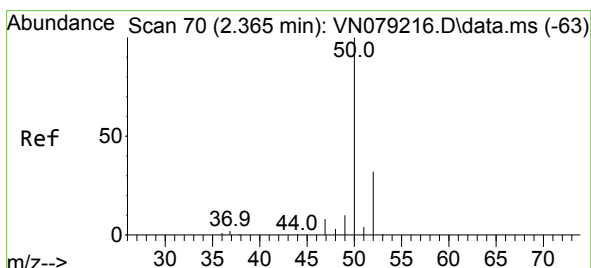
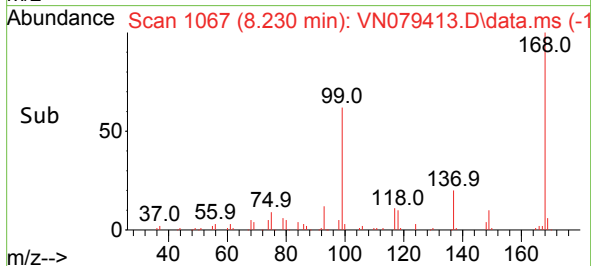
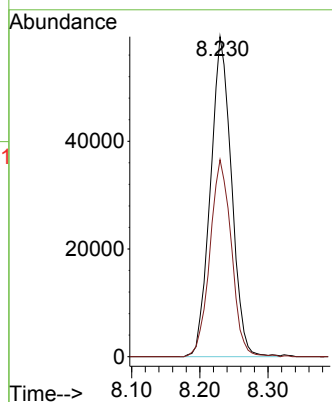
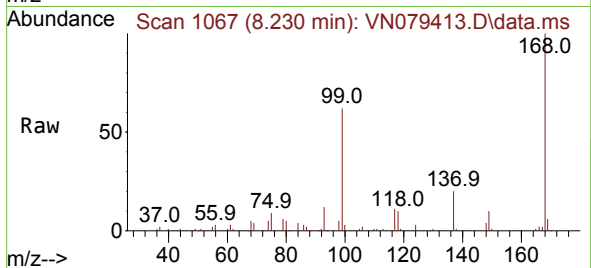




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN079413.D
Acq: 04 Oct 2023 19:12

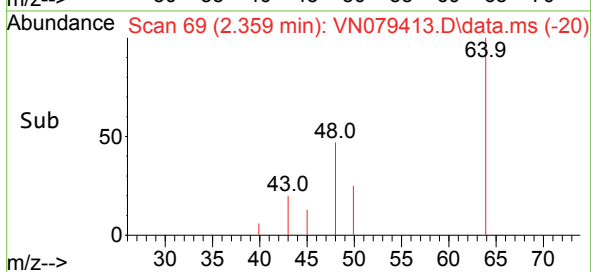
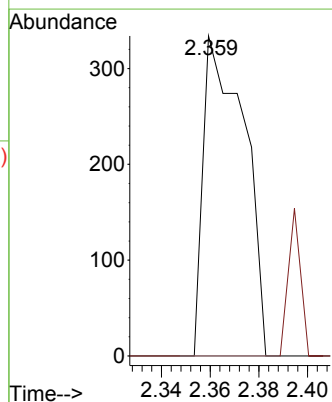
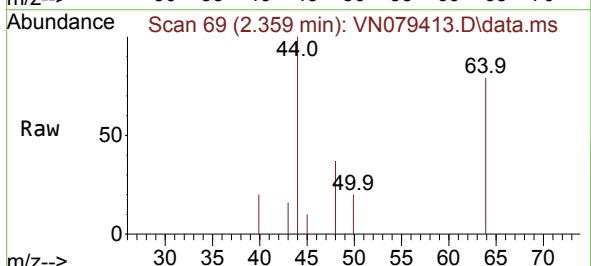
Instrument :
MSVOA_N
ClientSampleId :

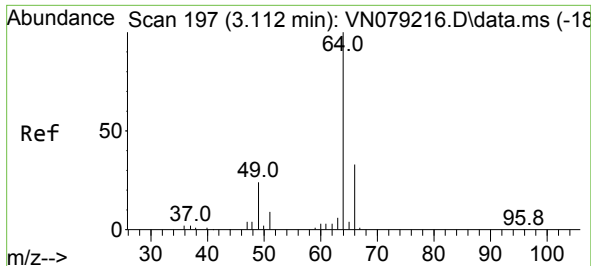
Tgt Ion:168 Resp: 127917
Ion Ratio Lower Upper
168 100
99 61.6 53.0 79.6



#3
Chloromethane
Concen: 0.234 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.012 min
Lab File: VN079413.D
Acq: 04 Oct 2023 19:12

Tgt Ion: 50 Resp: 388
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

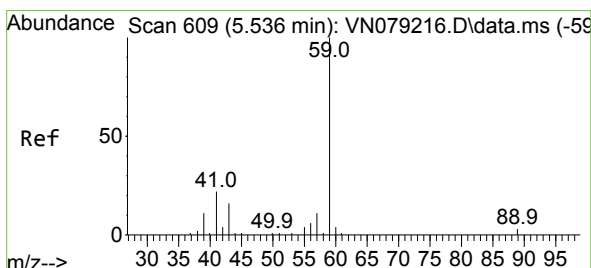
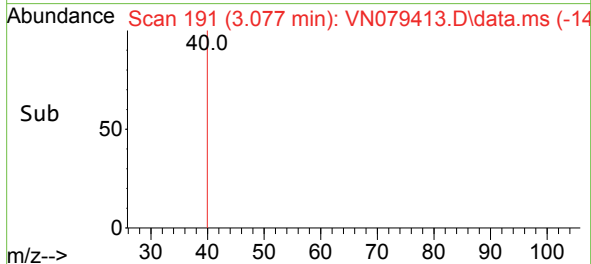
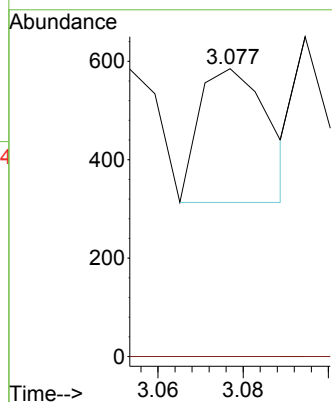
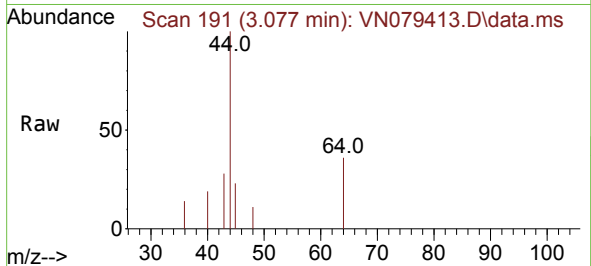




#6
Chloroethane
Concen: Below Cal
RT: 3.077 min Scan# 197
Delta R.T. -0.041 min
Lab File: VN079413.D
Acq: 04 Oct 2023 19:12

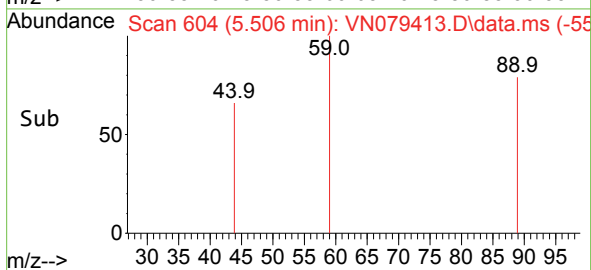
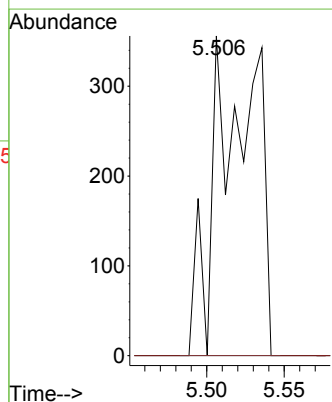
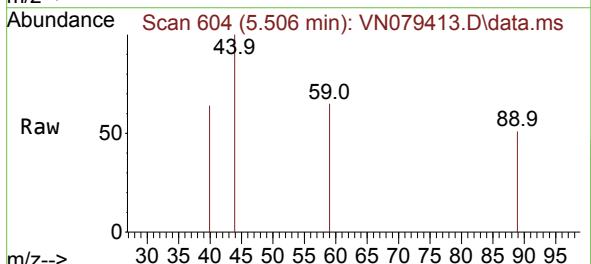
Instrument :
MSVOA_N
ClientSampleId :

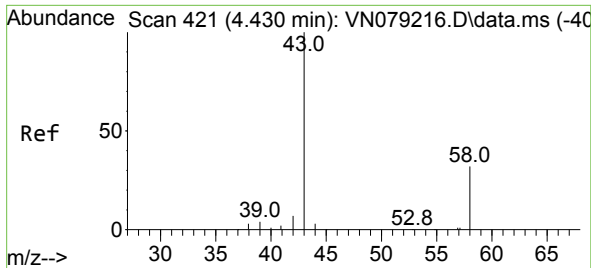
Tgt Ion: 64 Resp: 306
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 2.048 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.036 min
Lab File: VN079413.D
Acq: 04 Oct 2023 19:12

Tgt Ion: 59 Resp: 653
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 63.423 ug/l

RT: 4.436 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN079413.D

Acq: 04 Oct 2023 19:12

Instrument :

MSVOA_N

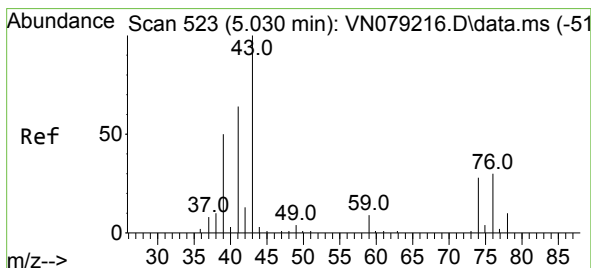
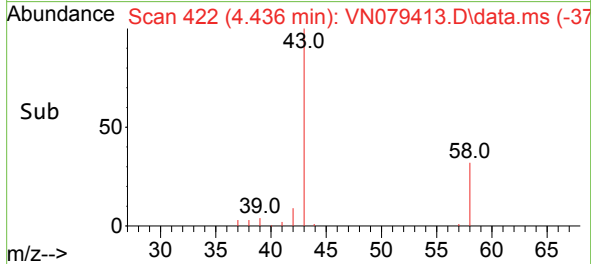
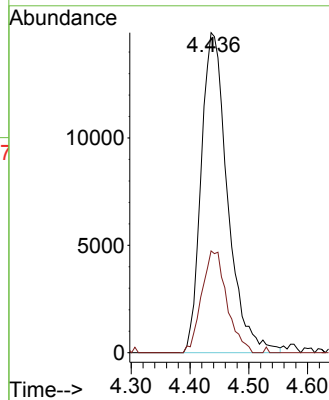
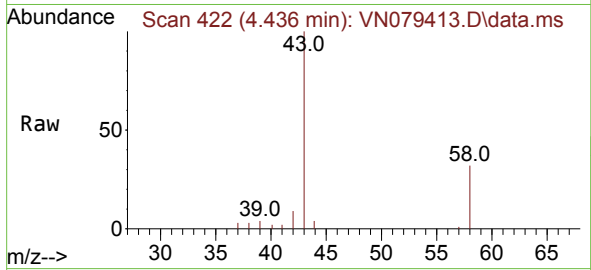
ClientSampleId :

Tgt Ion: 43 Resp: 46512

Ion Ratio Lower Upper

43 100

58 31.8 28.0 42.0



#18

Methyl Acetate

Concen: 1.903 ug/l

RT: 5.047 min Scan# 526

Delta R.T. 0.005 min

Lab File: VN079413.D

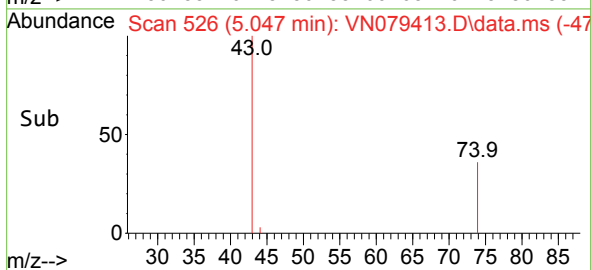
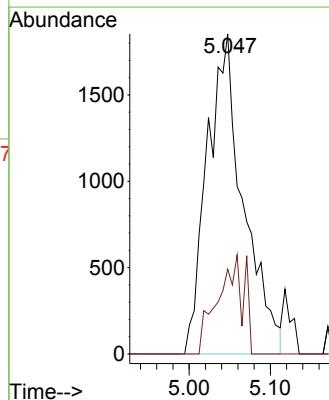
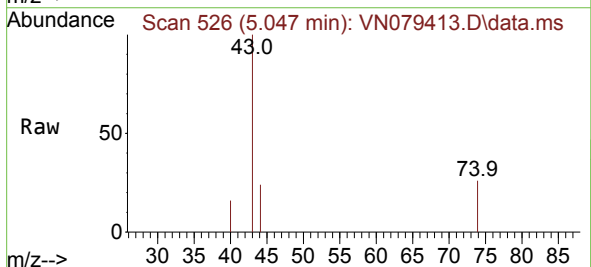
Acq: 04 Oct 2023 19:12

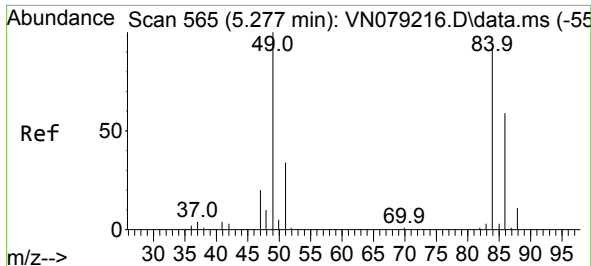
Tgt Ion: 43 Resp: 5735

Ion Ratio Lower Upper

43 100

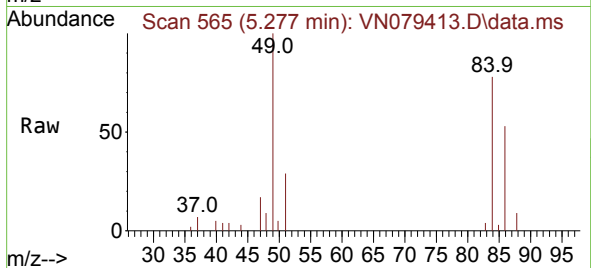
74 22.2 26.2 39.4#



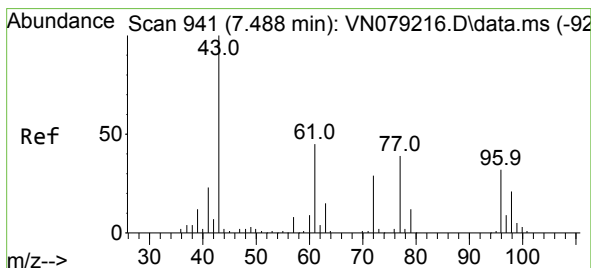
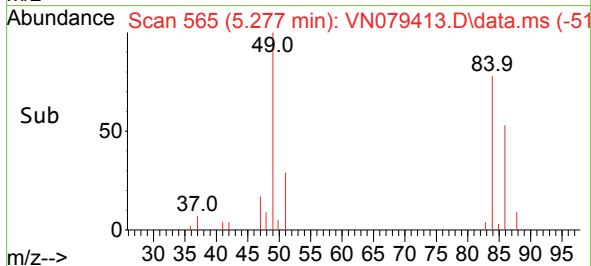
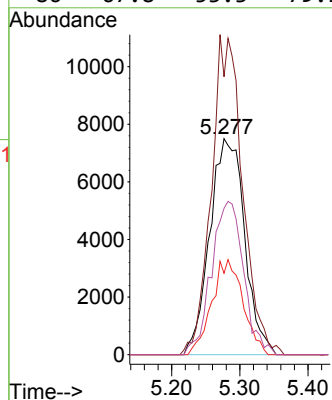


#20
Methylene Chloride
Concen: 14.951 ug/l
RT: 5.277 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN079413.D
Acq: 04 Oct 2023 19:12

Instrument :
MSVOA_N
ClientSampleId :

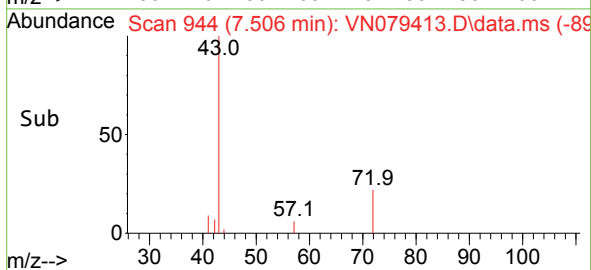
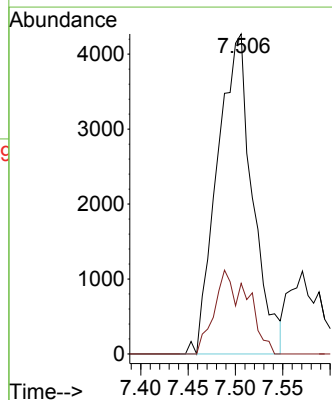
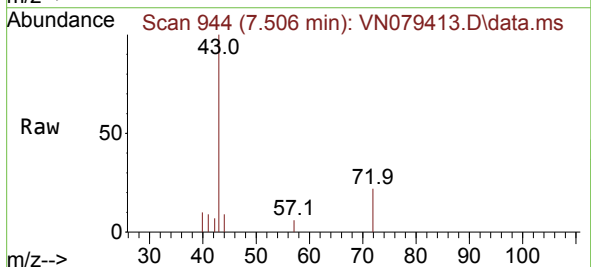


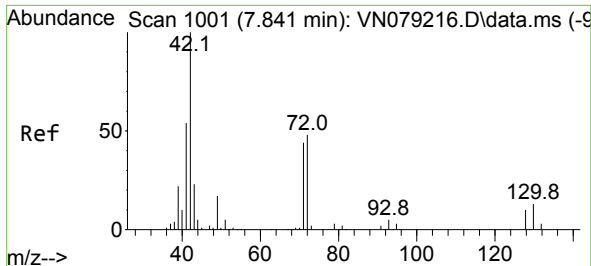
Tgt Ion:	84	Resp:	26683
Ion	Ratio	Lower	Upper
84	100		
49	128.6	79.7	119.5#
51	37.7	25.2	37.8
86	67.8	53.3	79.9



#25
2-Butanone
Concen: 10.382 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN079413.D
Acq: 04 Oct 2023 19:12

Tgt Ion:	43	Resp:	11047
Ion	Ratio	Lower	Upper
43	100		
72	22.0	30.2	45.2#





#29

Tetrahydrofuran

Concen: 2.612 ug/l

RT: 7.853 min Scan# 1068

Delta R.T. 0.006 min

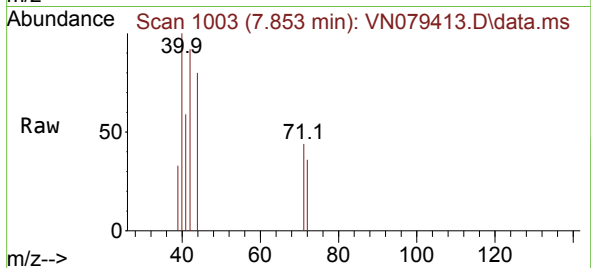
Lab File: VN079413.D

Acq: 04 Oct 2023 19:12

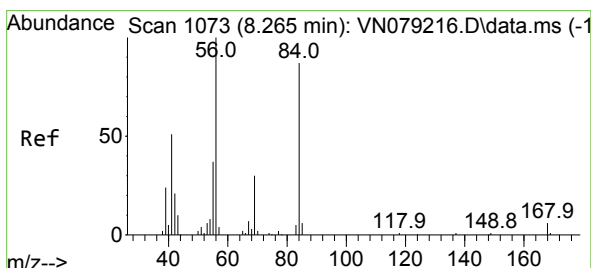
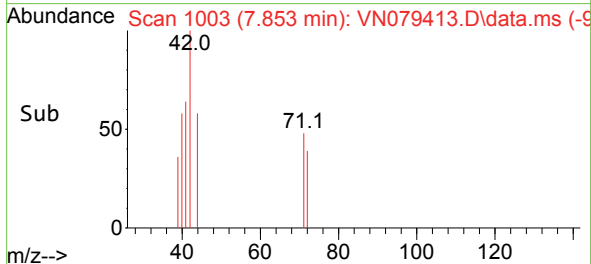
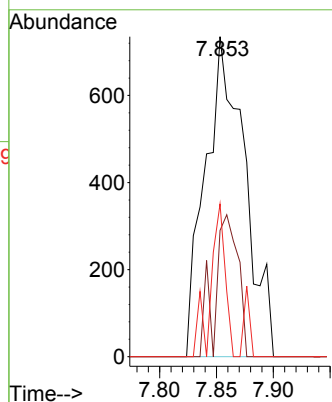
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	1769
Ion	Ratio	Lower	Upper
42	100		
72	26.3	49.8	74.6#
71	17.8	47.4	71.2#



#31

Cyclohexane

Concen: 1.390 ug/l

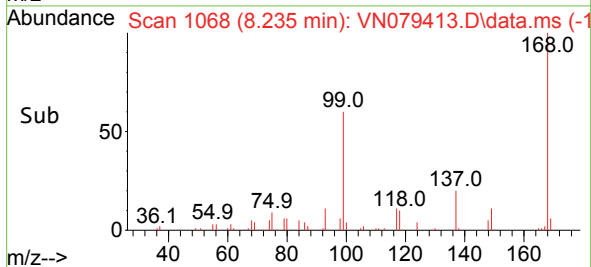
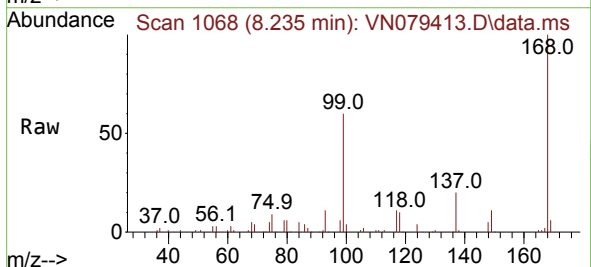
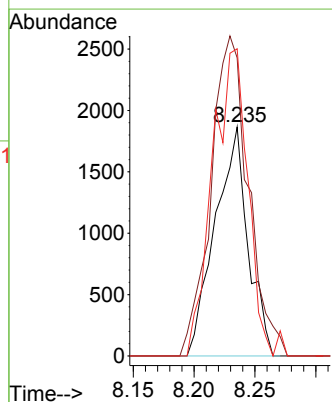
RT: 8.235 min Scan# 1068

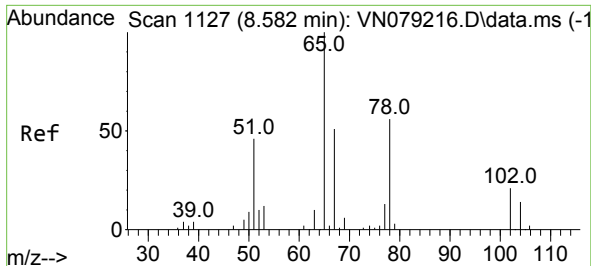
Delta R.T. -0.030 min

Lab File: VN079413.D

Acq: 04 Oct 2023 19:12

Tgt Ion:	56	Resp:	3504
Ion	Ratio	Lower	Upper
56	100		
69	130.2	26.8	40.2#
84	134.1	81.8	122.6#





#33

1,2-Dichloroethane-d4

Concen: 67.993 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.001 min

Lab File: VN079413.D

Acq: 04 Oct 2023 19:12

Instrument :

MSVOA_N

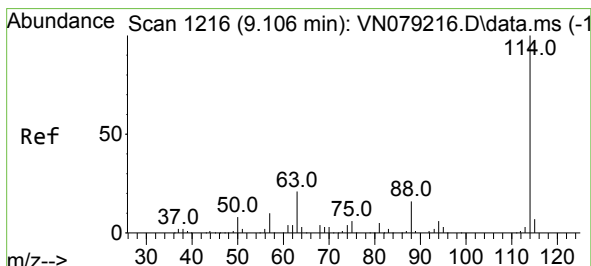
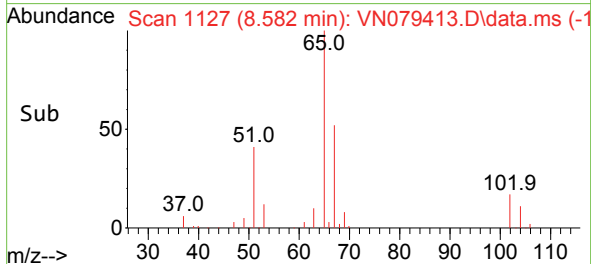
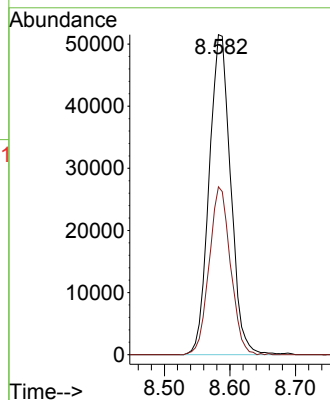
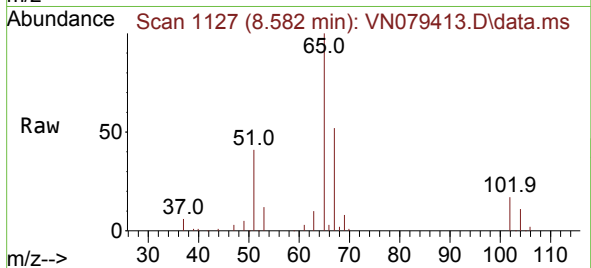
ClientSampleId :

Tgt Ion: 65 Resp: 117407

Ion Ratio Lower Upper

65 100

67 51.9 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.006 min

Lab File: VN079413.D

Acq: 04 Oct 2023 19:12

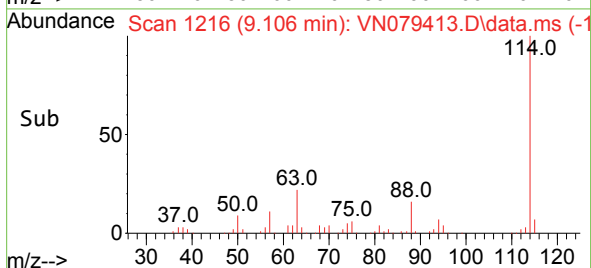
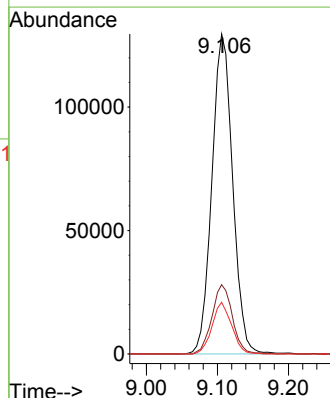
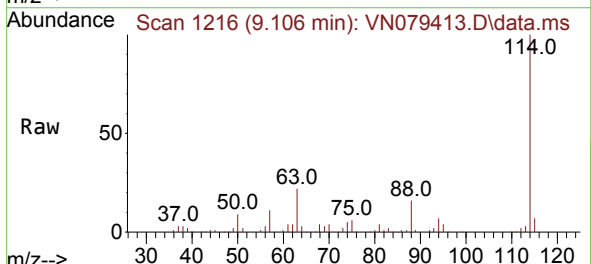
Tgt Ion: 114 Resp: 262860

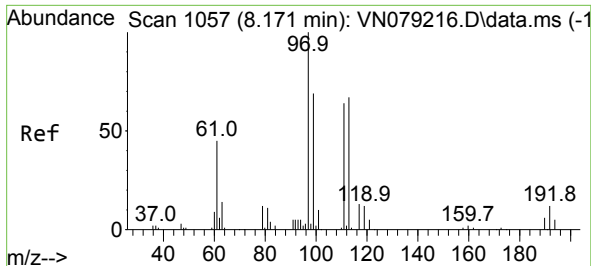
Ion Ratio Lower Upper

114 100

63 21.6 0.0 36.4

88 16.2 0.0 30.6





#35

Dibromofluoromethane

Concen: 52.146 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

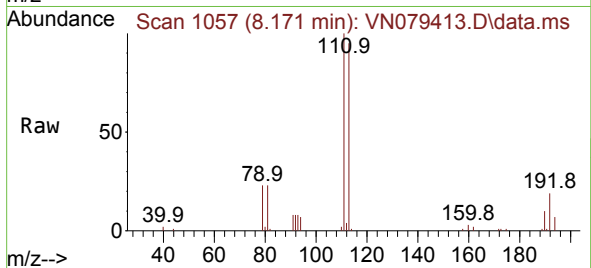
Lab File: VN079413.D

Acq: 04 Oct 2023 19:12

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MSVOA_N

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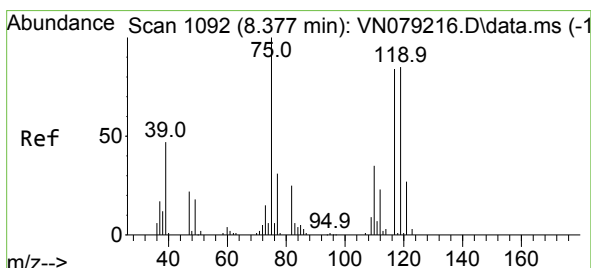
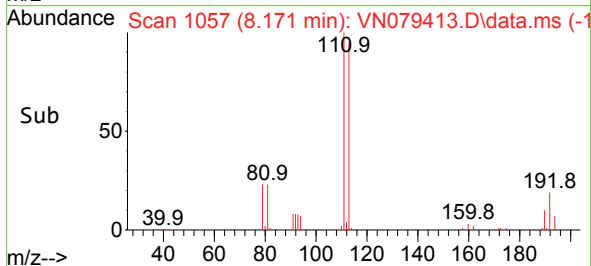
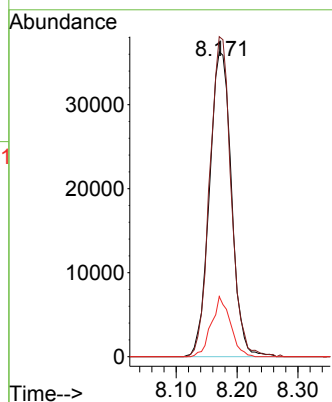
Tgt Ion:113 Resp: 91177

Ion Ratio Lower Upper

113 100

111 101.5 82.6 123.8

192 17.1 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.655 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079413.D

Acq: 04 Oct 2023 19:12

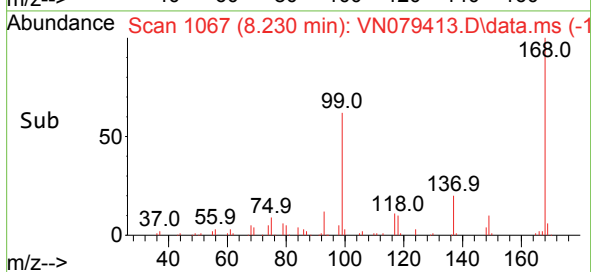
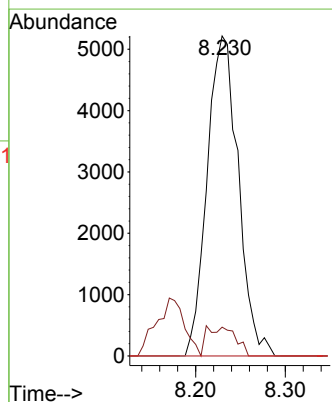
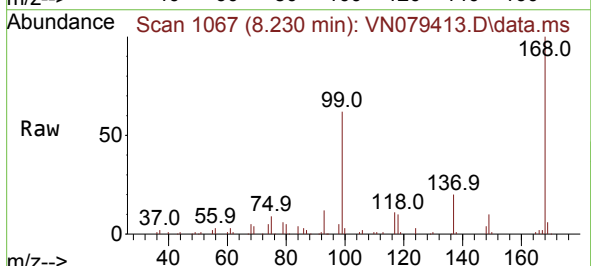
Tgt Ion: 75 Resp: 12547

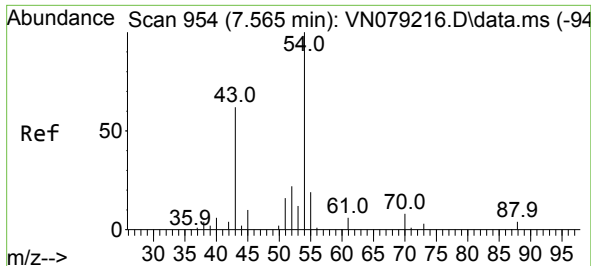
Ion Ratio Lower Upper

75 100

110 3.5 19.1 57.3#

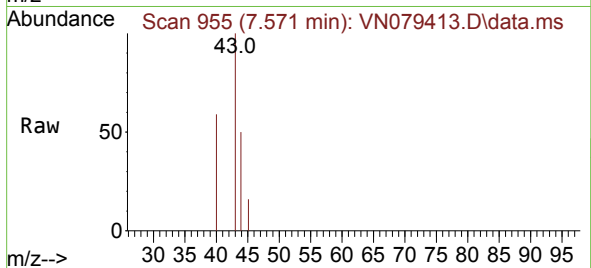
77 0.0 25.0 37.4#



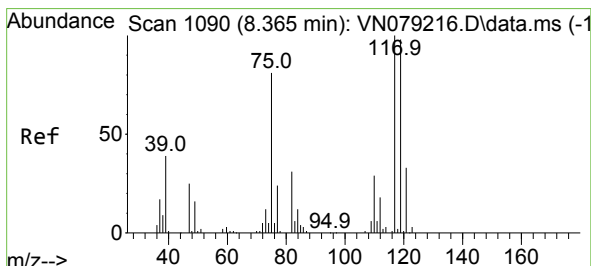
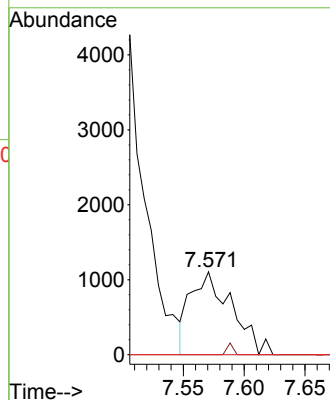
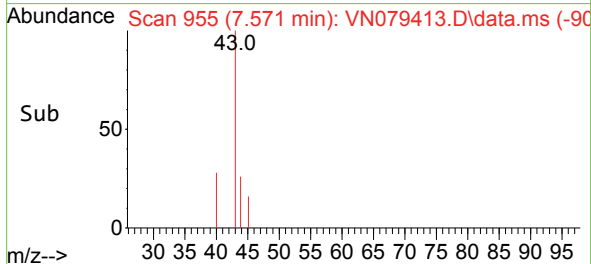


#37
Ethyl Acetate
Concen: 0.963 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN079413.D
Acq: 04 Oct 2023 19:12

Instrument :
MSVOA_N
ClientSampleId :

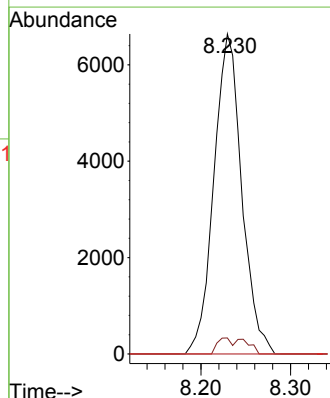
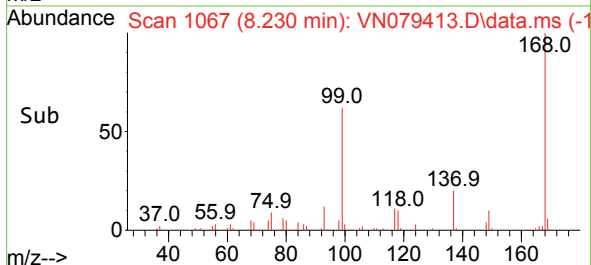
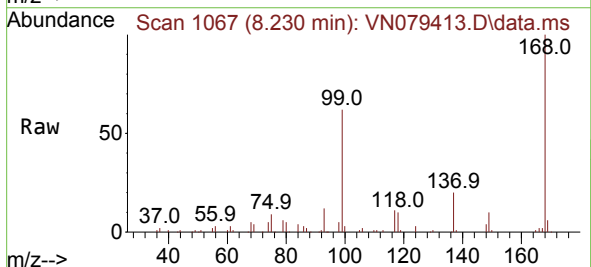


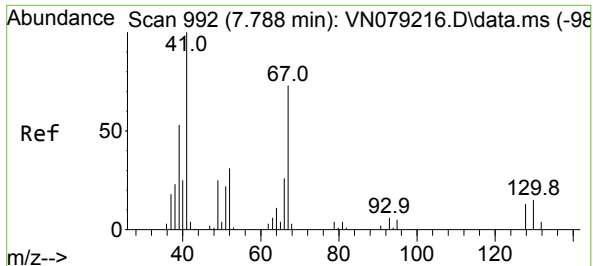
Tgt Ion: 43 Resp: 2589
Ion Ratio Lower Upper
43 100
61 2.1 13.2 19.8#
70 0.0 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 5.132 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN079413.D
Acq: 04 Oct 2023 19:12

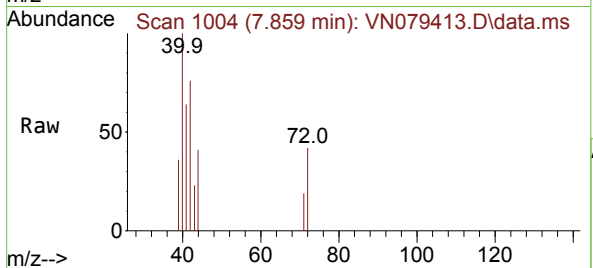
Tgt Ion: 117 Resp: 14314
Ion Ratio Lower Upper
117 100
119 5.0 77.3 115.9#
121 0.0 23.3 34.9#



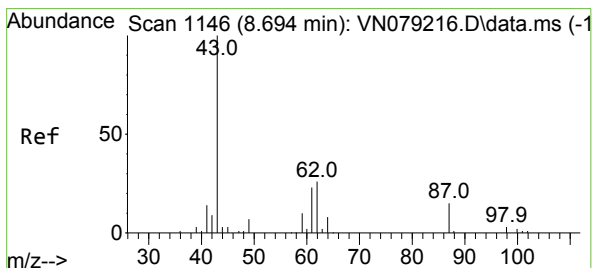
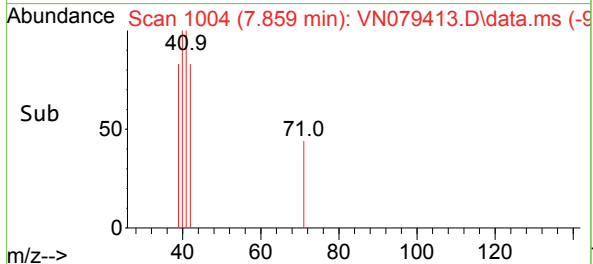
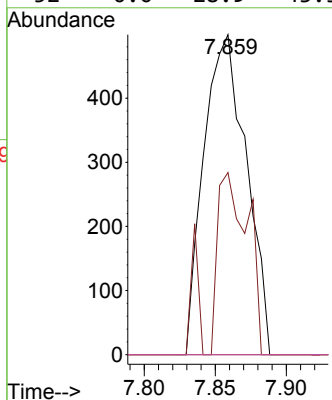


#41
Methacrylonitrile
Concen: 0.766 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.065 min
Lab File: VN079413.D
Acq: 04 Oct 2023 19:12

Instrument :
MSVOA_N
ClientSampleId :

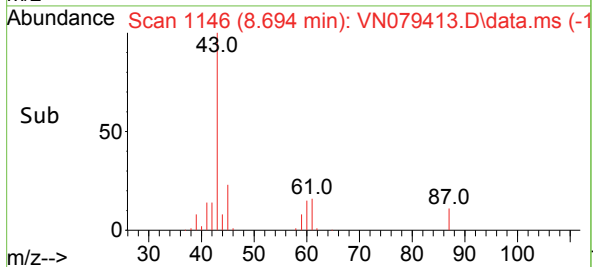
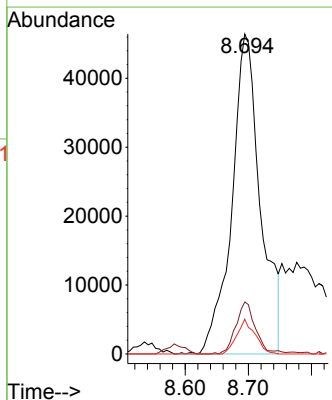
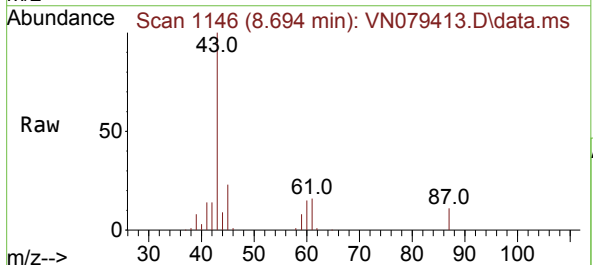


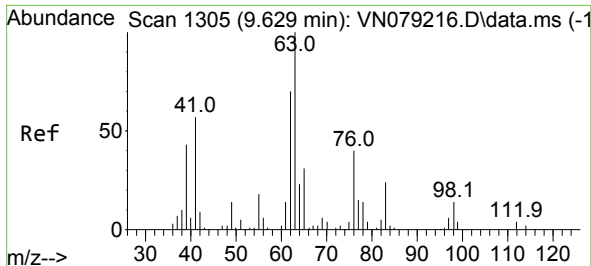
Tgt Ion: 41 Resp: 1038
Ion Ratio Lower Upper
41 100
39 40.5 42.6 64.0#
67 0.0 77.5 116.3#
52 0.0 28.9 43.3#



#43
Isopropyl Acetate
Concen: 33.331 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN079413.D
Acq: 04 Oct 2023 19:12

Tgt Ion: 43 Resp: 146195
Ion Ratio Lower Upper
43 100
61 11.2 24.7 37.1#
87 6.9 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.201 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN079413.D

Acq: 04 Oct 2023 19:12

Instrument :

MSVOA_N

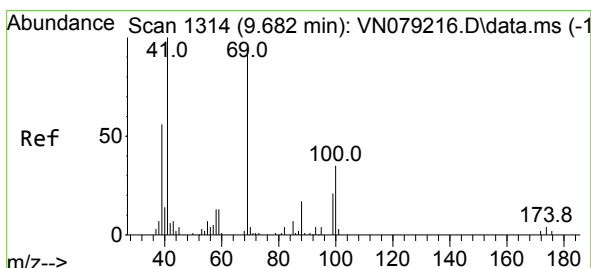
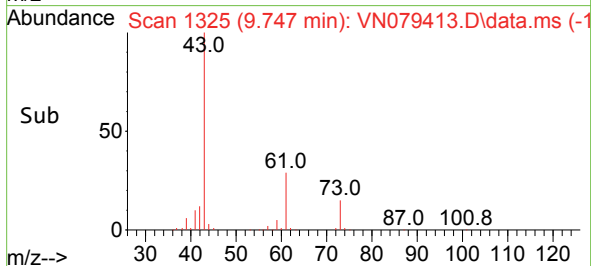
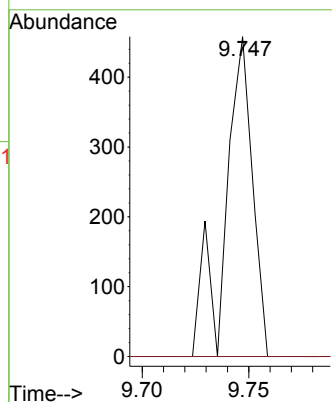
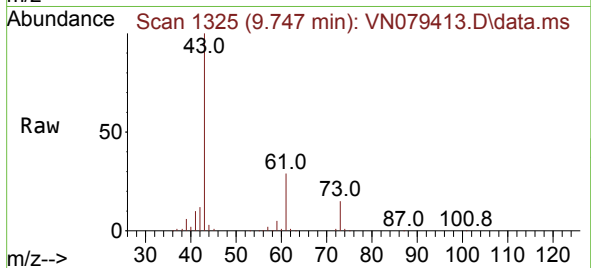
ClientSampleId :

Tgt Ion: 63 Resp: 411

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 1.583 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.012 min

Lab File: VN079413.D

Acq: 04 Oct 2023 19:12

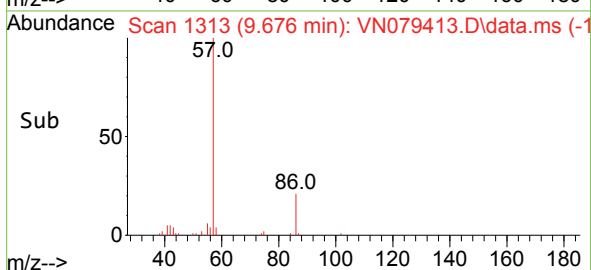
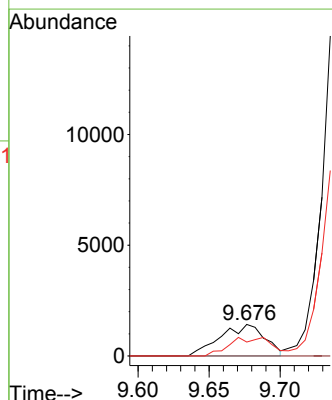
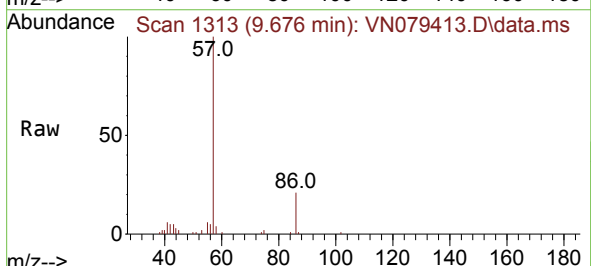
Tgt Ion: 41 Resp: 3110

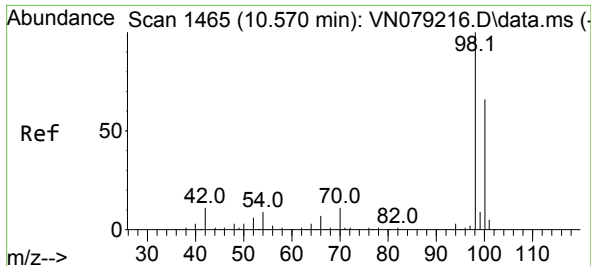
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

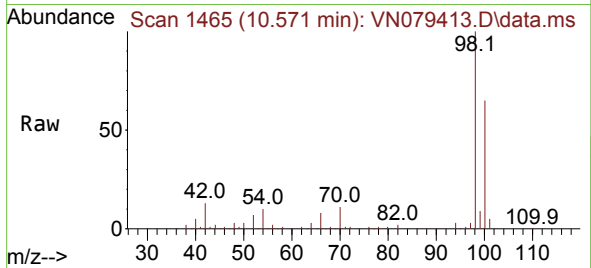
39 56.8 54.6 81.8



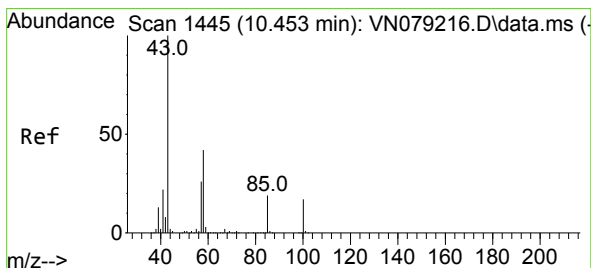
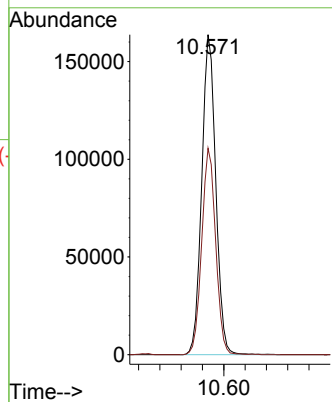
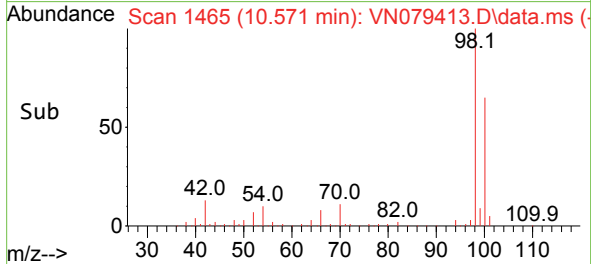


#50
Toluene-d8
Concen: 46.520 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079413.D
Acq: 04 Oct 2023 19:12

Instrument :
MSVOA_N
ClientSampleId :

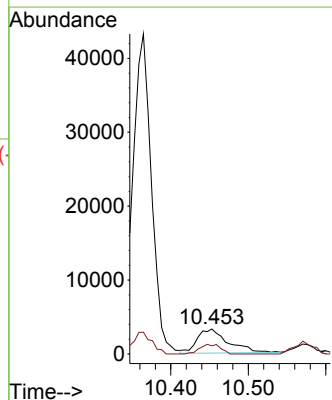
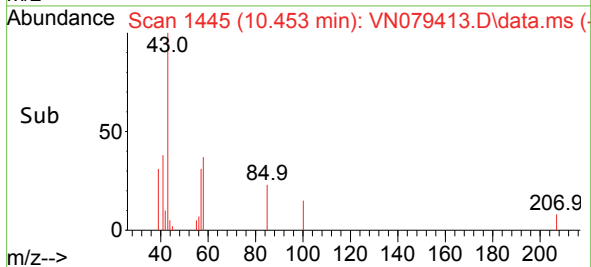
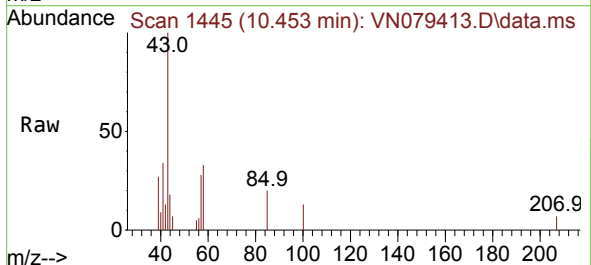


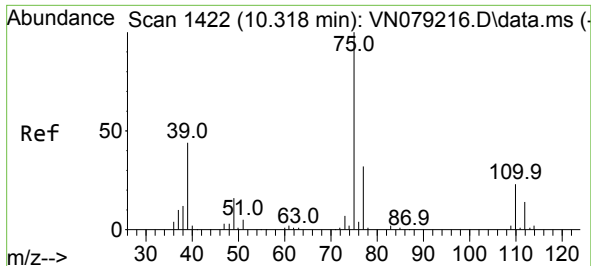
Tgt Ion: 98 Resp: 298669
Ion Ratio Lower Upper
98 100
100 64.2 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 3.586 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN079413.D
Acq: 04 Oct 2023 19:12

Tgt Ion: 43 Resp: 9130
Ion Ratio Lower Upper
43 100
58 26.5 36.6 54.8#

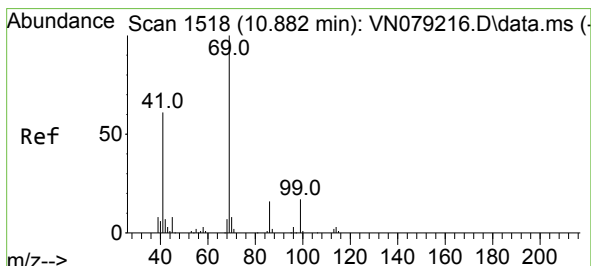
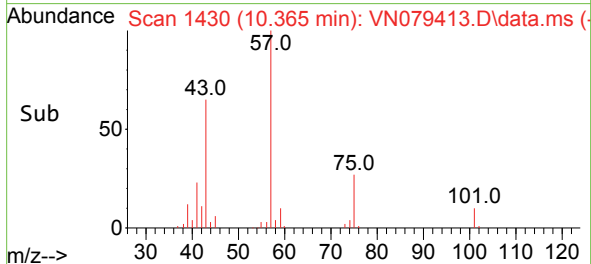
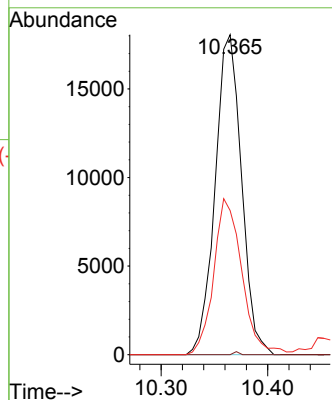
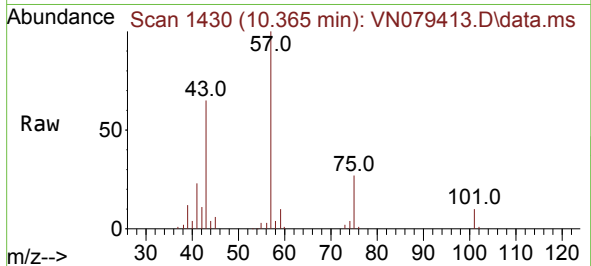




#54
 cis-1,3-Dichloropropene
 Concen: 9.682 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN079413.D
 Acq: 04 Oct 2023 19:12

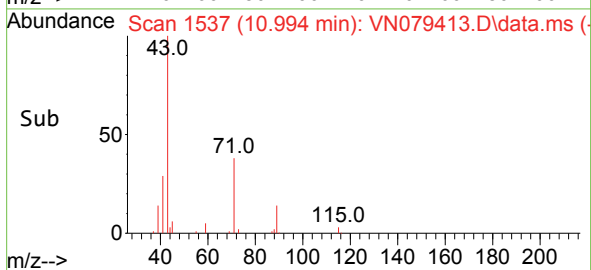
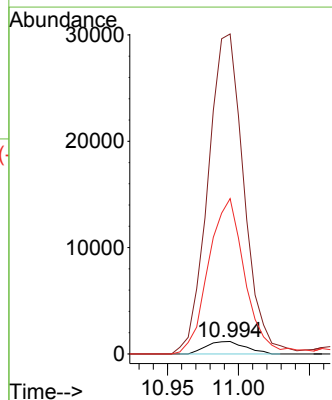
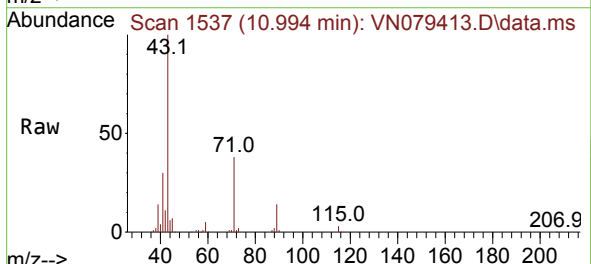
Instrument :
 MSVOA_N
 ClientSampleId :

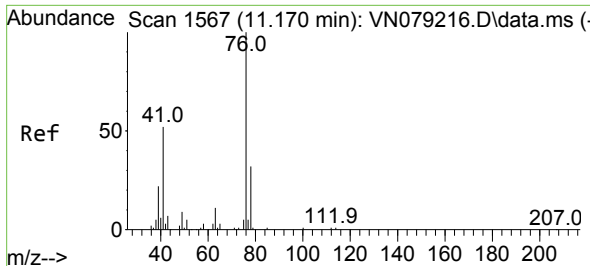
Tgt Ion: 75 Resp: 31088
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 45.0 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.798 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. 0.117 min
 Lab File: VN079413.D
 Acq: 04 Oct 2023 19:12

Tgt Ion: 69 Resp: 2240
 Ion Ratio Lower Upper
 69 100
 41 2357.0 39.6 59.4#
 39 1171.3 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 0.841 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN079413.D

Acq: 04 Oct 2023 19:12

Instrument :

MSVOA_N

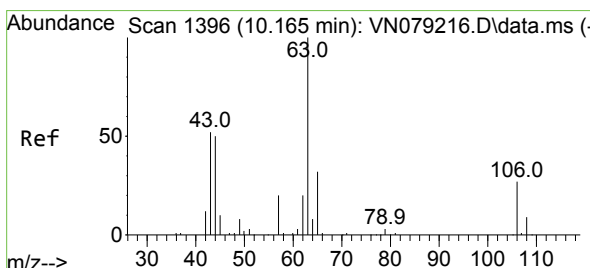
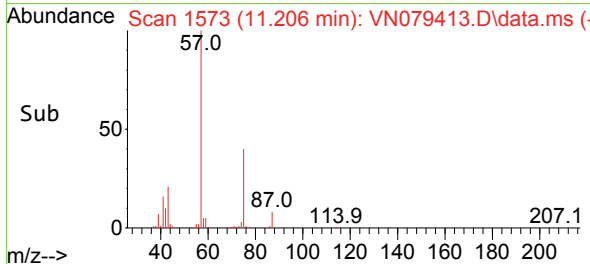
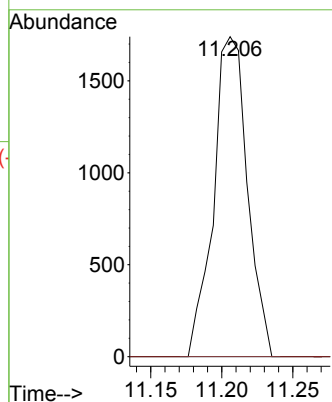
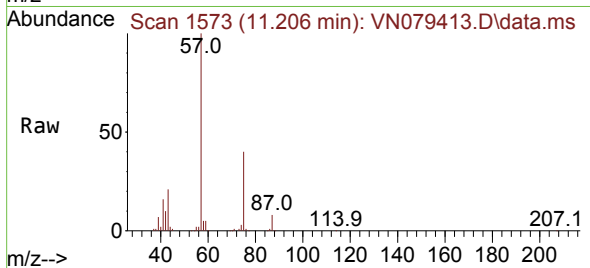
ClientSampleId :

Tgt Ion: 76 Resp: 2893

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 10.176 min Scan# 1398

Delta R.T. 0.011 min

Lab File: VN079413.D

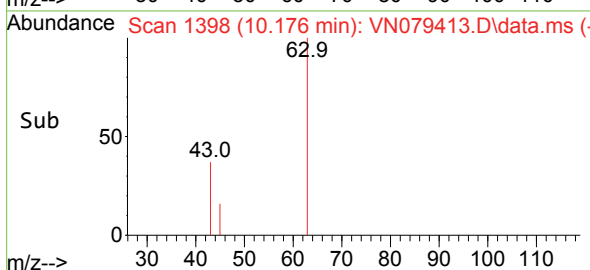
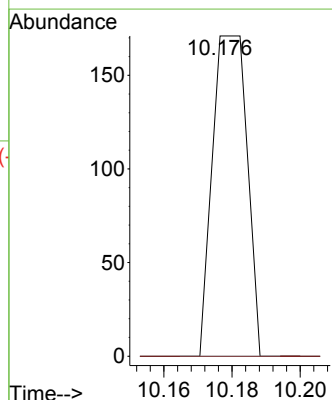
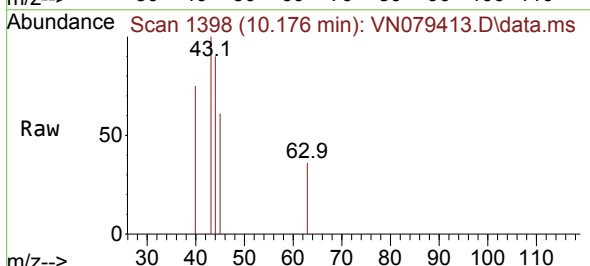
Acq: 04 Oct 2023 19:12

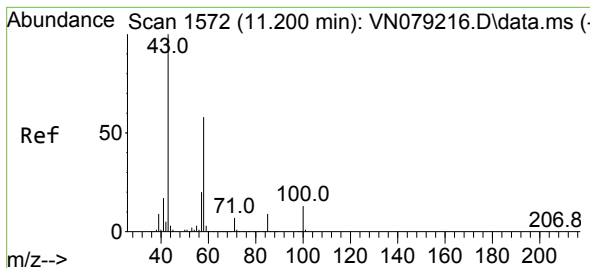
Tgt Ion: 63 Resp: 121

Ion Ratio Lower Upper

63 100

106 0.0 26.2 39.4#

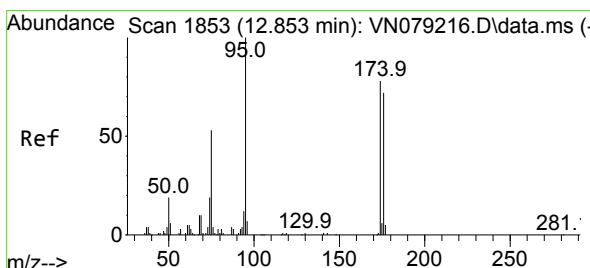
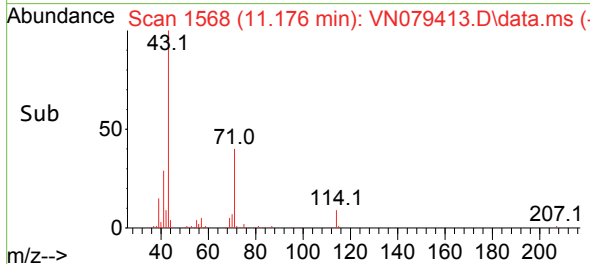
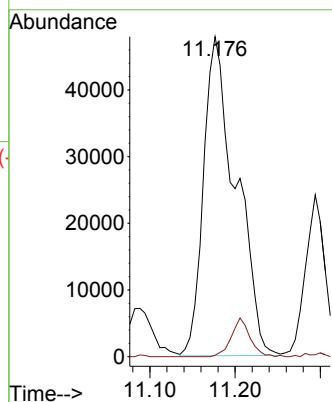
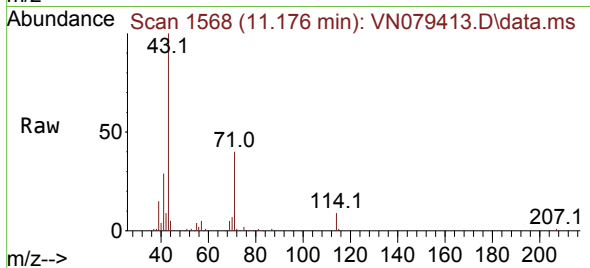




#59
2-Hexanone
Concen: 68.582 ug/l
RT: 11.176 min Scan# 1157
Delta R.T. -0.024 min
Lab File: VN079413.D
Acq: 04 Oct 2023 19:12

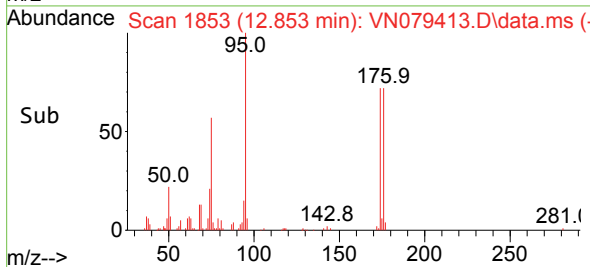
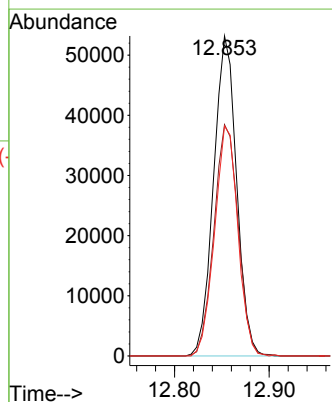
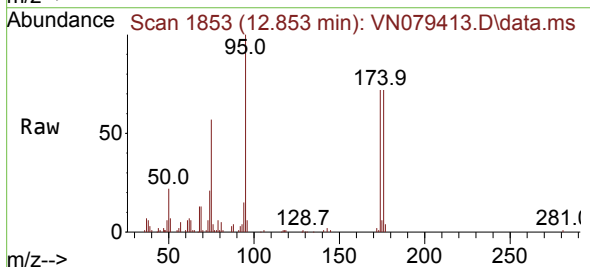
Instrument :
MSVOA_N
ClientSampleId :

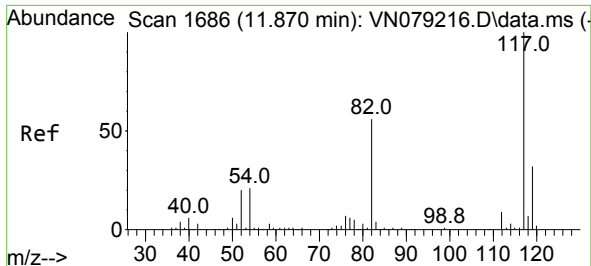
Tgt Ion: 43 Resp: 126477
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 43.796 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079413.D
Acq: 04 Oct 2023 19:12

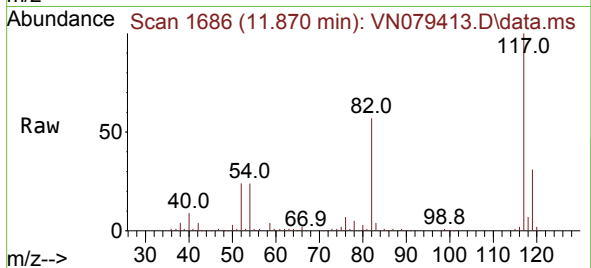
Tgt Ion: 95 Resp: 89690
Ion Ratio Lower Upper
95 100
174 76.2 0.0 143.8
176 72.7 0.0 135.8



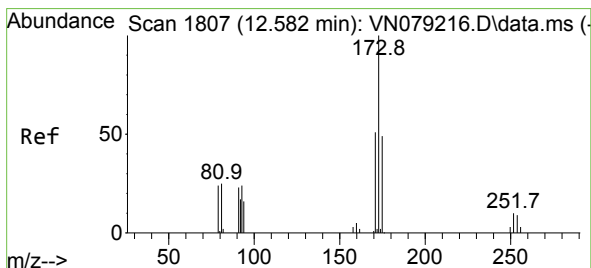
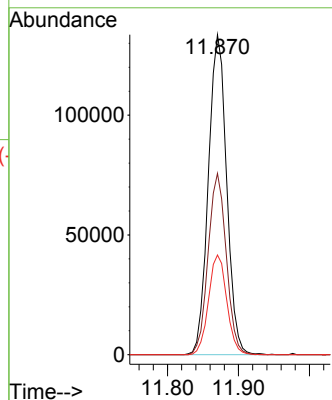
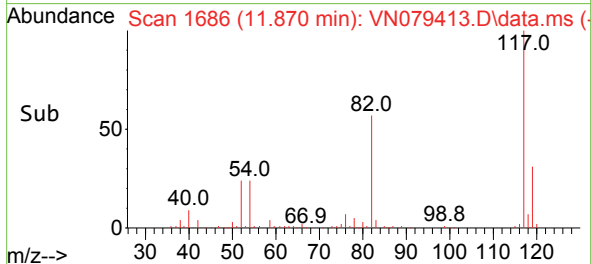


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. -0.001 min
Lab File: VN079413.D
Acq: 04 Oct 2023 19:12

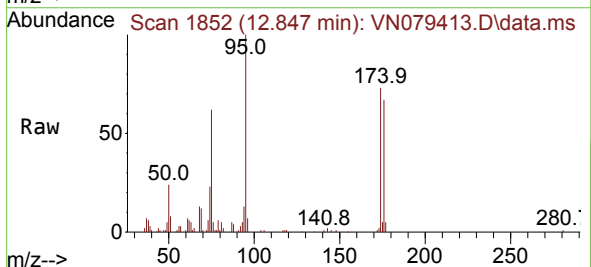
Instrument :
MSVOA_N
ClientSampleId :



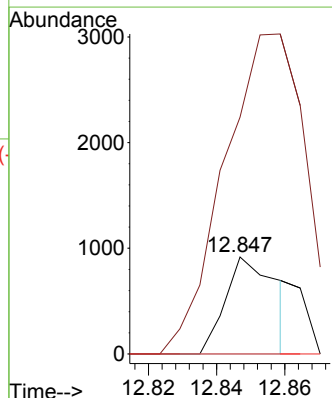
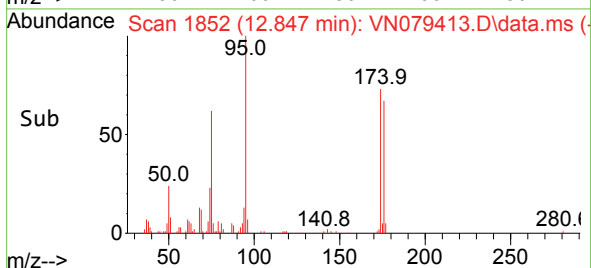
Tgt Ion:117 Resp: 239540
Ion Ratio Lower Upper
117 100
82 56.7 44.0 66.0
119 31.1 25.6 38.4

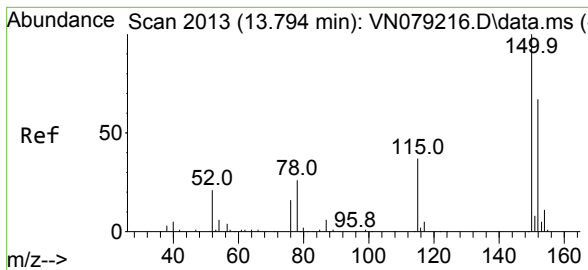


#71
Bromoform
Concen: 0.639 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN079413.D
Acq: 04 Oct 2023 19:12



Tgt Ion:173 Resp: 960
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 20

Delta R.T. 0.006 min

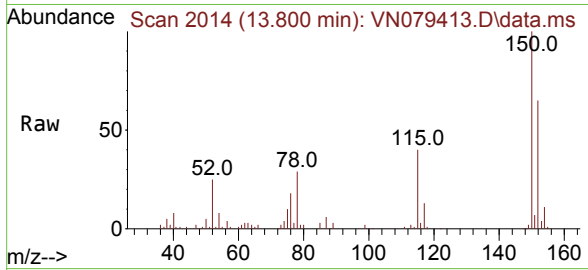
Lab File: VN079413.D

Acq: 04 Oct 2023 19:12

Instrument :

MSVOA_N

ClientSampleId :



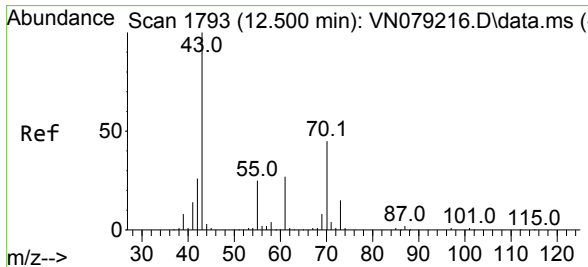
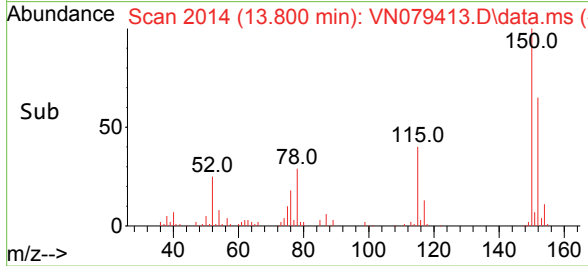
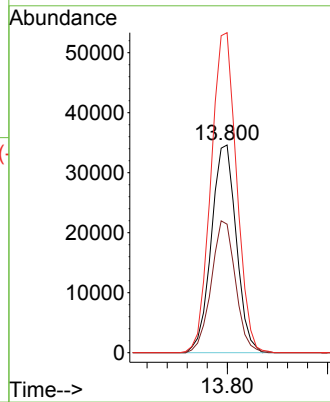
Tgt Ion:152 Resp: 59736

Ion Ratio Lower Upper

152 100

115 61.4 32.3 96.8

150 158.0 0.0 355.8



#74

N-ethyl acetate

Concen: 0.478 ug/l

RT: 12.459 min Scan# 1786

Delta R.T. -0.041 min

Lab File: VN079413.D

Acq: 04 Oct 2023 19:12

Tgt Ion: 43 Resp: 985

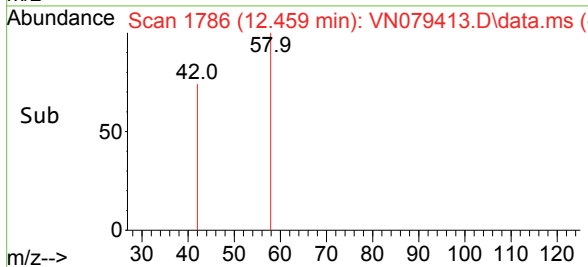
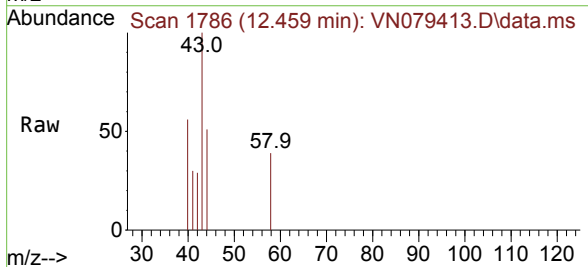
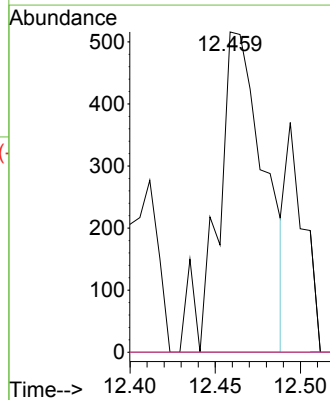
Ion Ratio Lower Upper

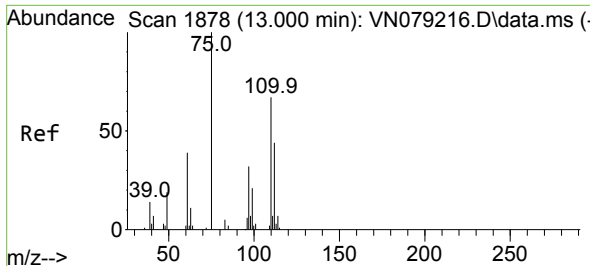
43 100

70 0.0 43.4 65.2#

55 0.0 21.4 32.0#

61 0.0 22.8 34.2#

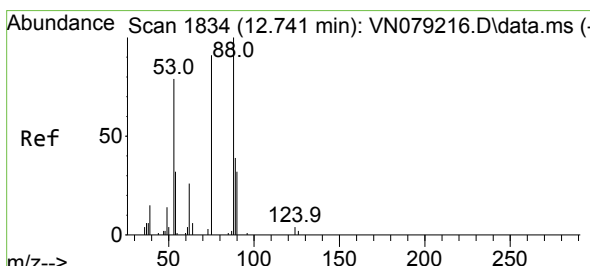
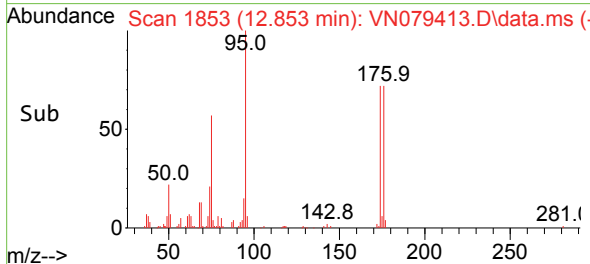
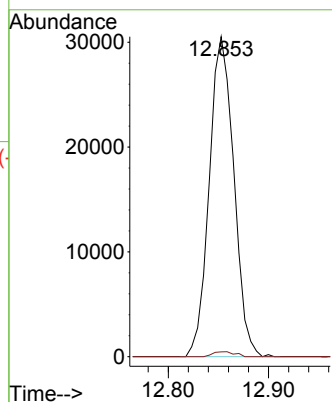
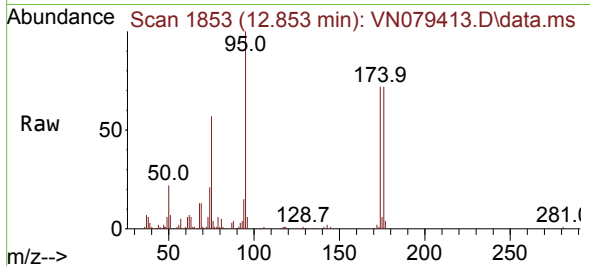




#76
1,2,3-Trichloropropane
Concen: 32.299 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN079413.D
Acq: 04 Oct 2023 19:12

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 52001
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 88.798 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079413.D
Acq: 04 Oct 2023 19:12

Tgt Ion: 75 Resp: 52001
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

