

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100423\
 Data File : VN079414.D
 Acq On : 04 Oct 2023 19:36
 Operator : JC\MD
 Sample : 04714-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 05 02:26:37 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)

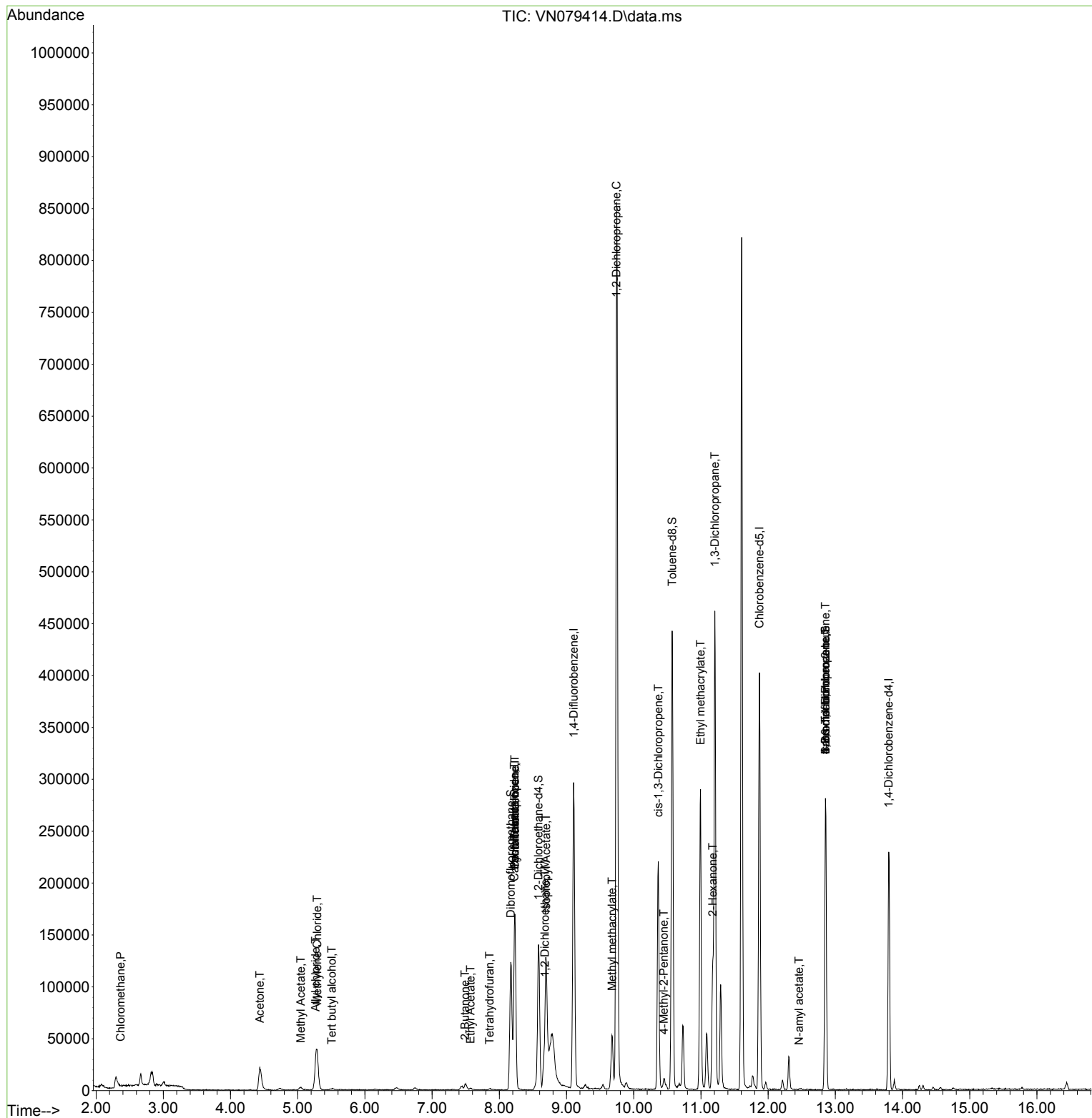
Internal Standards						
1) Pentafluorobenzene	8.230	168	120034	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	243948	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	221711	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	57510	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	113286	69.915	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 139.820%#	
35) Dibromofluoromethane	8.171	113	88683	54.652	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 109.300%	
50) Toluene-d8	10.571	98	298113	50.033	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.060%	
62) 4-Bromofluorobenzene	12.853	95	93379	49.132	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 98.260%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	323	0.207	ug/l #	42
6) Chloroethane	3.124	64	462	Below Cal	#	43
11) Tert butyl alcohol	5.506	59	1053	3.520	ug/l #	72
14) Allyl chloride	5.265	41	651	0.319	ug/l #	19
16) Acetone	4.436	43	42996	62.479	ug/l	96
18) Methyl Acetate	5.048	43	4761	1.683	ug/l #	79
20) Methylene Chloride	5.289	84	31989	19.102	ug/l	96
25) 2-Butanone	7.489	43	9926	9.941	ug/l #	63
29) Tetrahydrofuran	7.853	42	725	1.141	ug/l #	37
31) Cyclohexane	8.230	56	3296	1.393	ug/l #	41
36) 1,1-Dichloropropene	8.230	75	10623	4.247	ug/l #	47
37) Ethyl Acetate	7.571	43	3300	1.323	ug/l #	70
38) Carbon Tetrachloride	8.224	117	13376	5.168	ug/l #	16
42) 1,2-Dichloroethane	8.677	62	828	0.314	ug/l #	73
43) Isopropyl Acetate	8.694	43	167025	41.032	ug/l #	71
45) 1,2-Dichloropropane	9.741	63	1183	0.623	ug/l #	45
48) Methyl methacrylate	9.677	41	3719	2.040	ug/l #	29
51) 4-Methyl-2-Pentanone	10.447	43	10685	4.522	ug/l #	70
54) cis-1,3-Dichloropropene	10.365	75	35497	11.913	ug/l #	70
56) Ethyl methacrylate	10.994	69	2023	0.776	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	4308	1.350	ug/l #	42
58) 2-Chloroethyl Vinyl ether	10.171	63	157	Below Cal	#	42
59) 2-Hexanone	11.177	43	95846	56.002	ug/l #	19
71) Bromoform	12.853	173	997	0.717	ug/l #	1
74) N-amyl acetate	12.459	43	951	0.479	ug/l #	39
76) 1,2,3-Trichloropropane	12.853	75	52206	33.682	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	52206	92.599	ug/l #	15

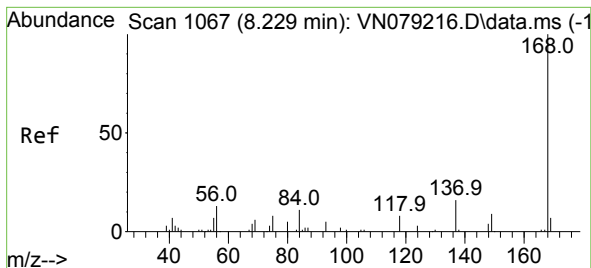
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Sep 12 05:05:24 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.000 min

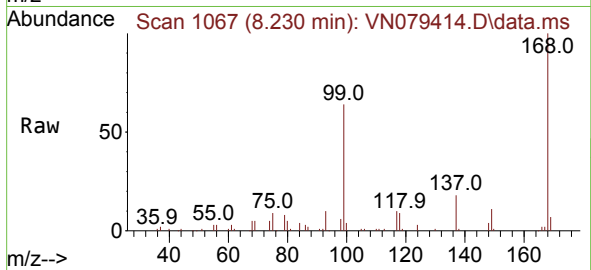
Lab File: VN079414.D

Acq: 04 Oct 2023 19:36

Instrument :

MSVOA_N

ClientSampleId :

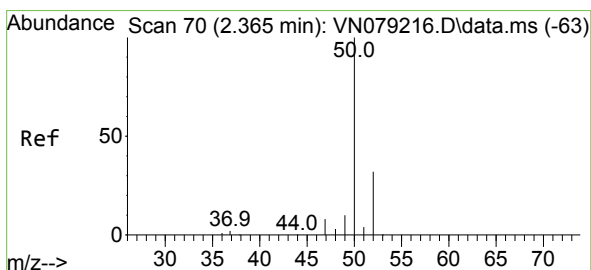
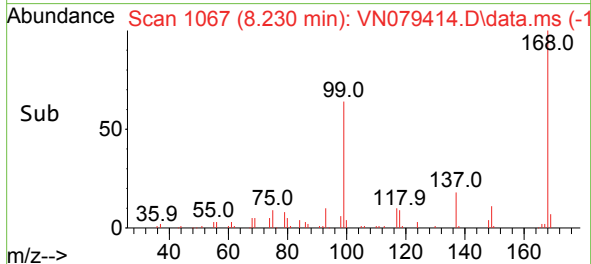
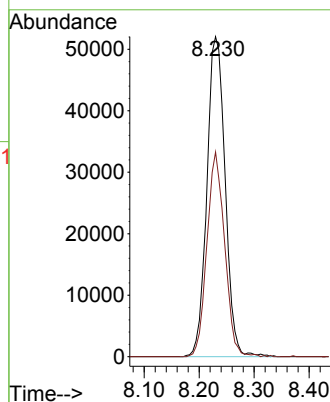


Tgt Ion:168 Resp: 120034

Ion Ratio Lower Upper

168 100

99 64.0 53.0 79.6



#3

Chloromethane

Concen: 0.207 ug/l

RT: 2.365 min Scan# 70

Delta R.T. -0.006 min

Lab File: VN079414.D

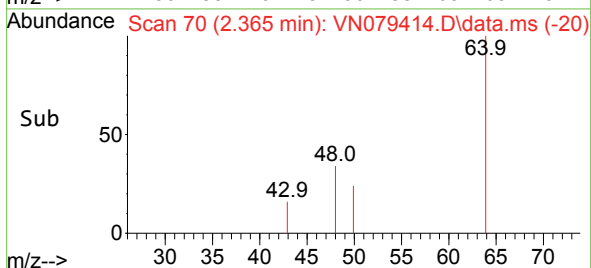
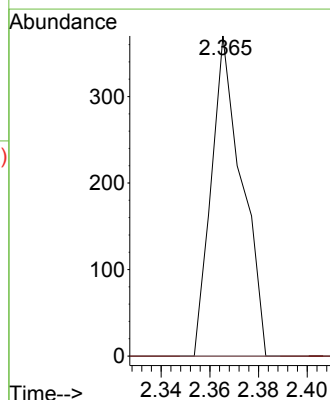
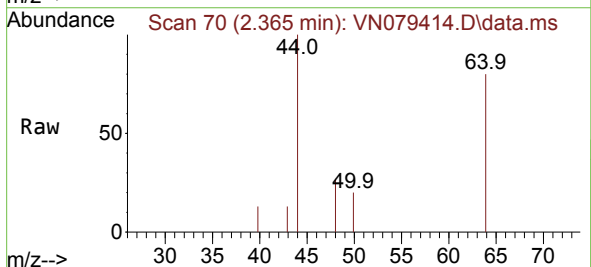
Acq: 04 Oct 2023 19:36

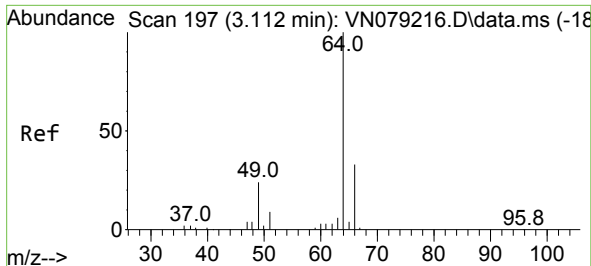
Tgt Ion: 50 Resp: 323

Ion Ratio Lower Upper

50 100

52 0.0 26.5 39.7#

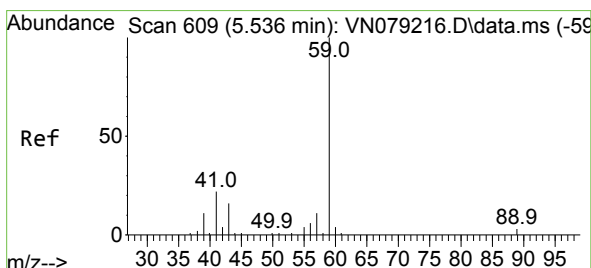
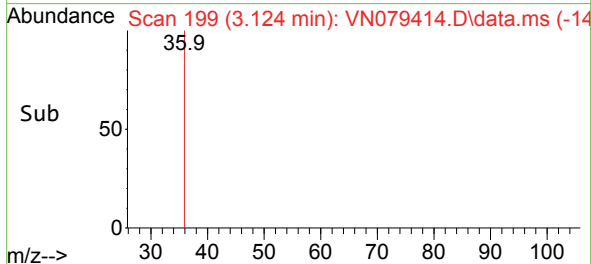
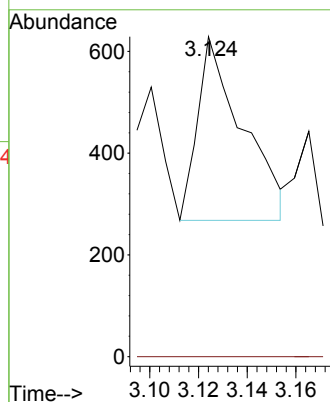
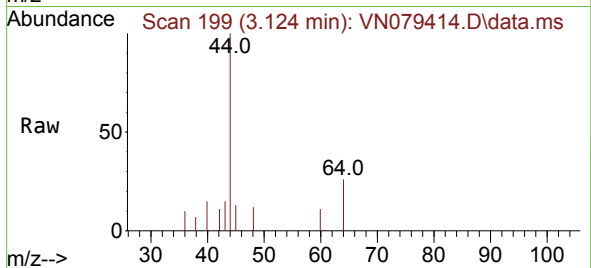




#6
Chloroethane
Concen: Below Cal
RT: 3.124 min Scan# 197
Delta R.T. 0.006 min
Lab File: VN079414.D
Acq: 04 Oct 2023 19:36

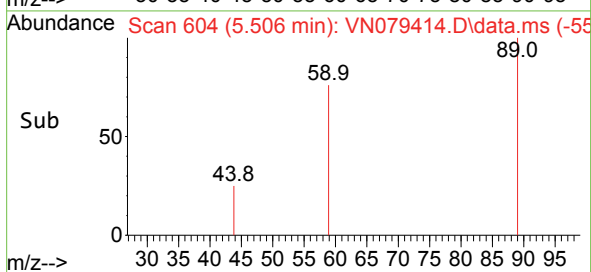
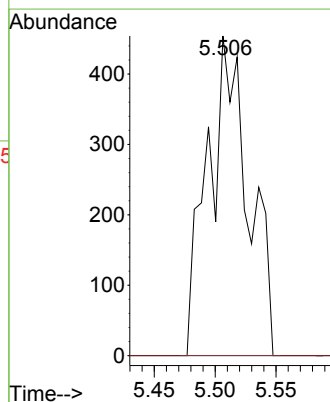
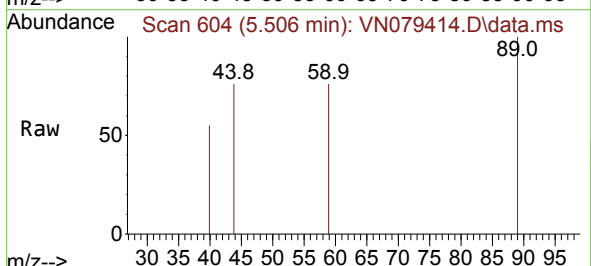
Instrument :
MSVOA_N
ClientSampleId :

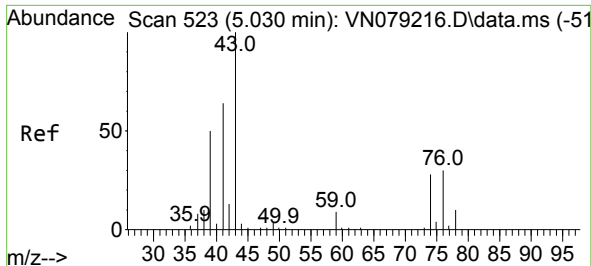
Tgt Ion: 64 Resp: 462
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 3.520 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.036 min
Lab File: VN079414.D
Acq: 04 Oct 2023 19:36

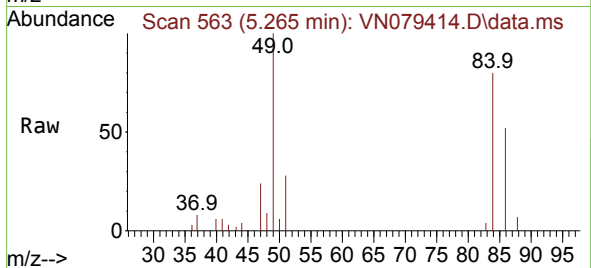
Tgt Ion: 59 Resp: 1053
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



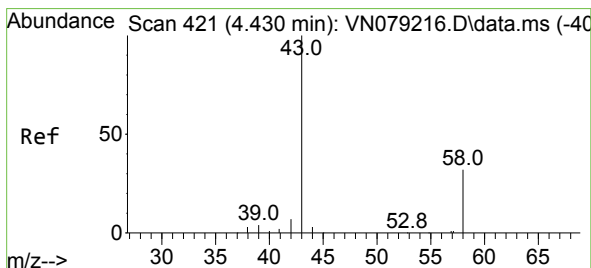
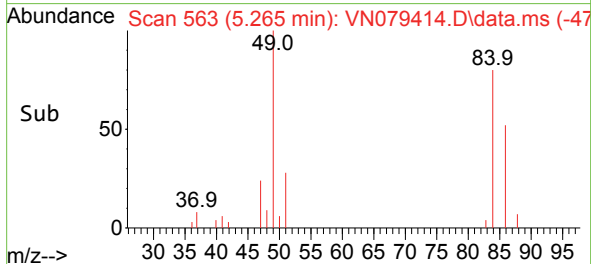
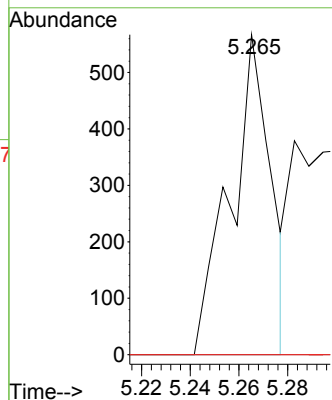


#14
 Allyl chloride
 Concen: 0.319 ug/l
 RT: 5.265 min Scan# 501
 Delta R.T. 0.235 min
 Lab File: VN079414.D
 Acq: 04 Oct 2023 19:36

Instrument :
 MSVOA_N
 ClientSampleId :

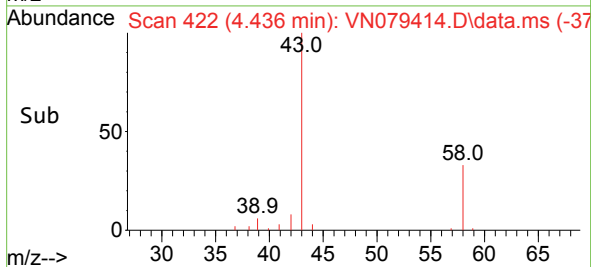
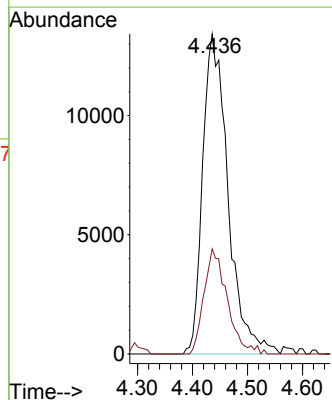
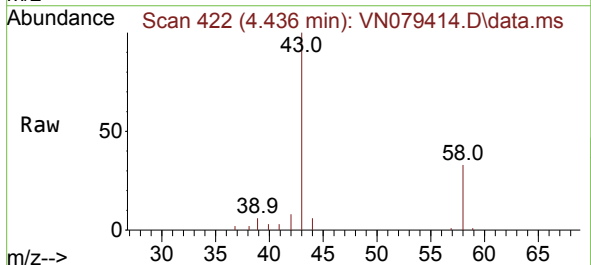


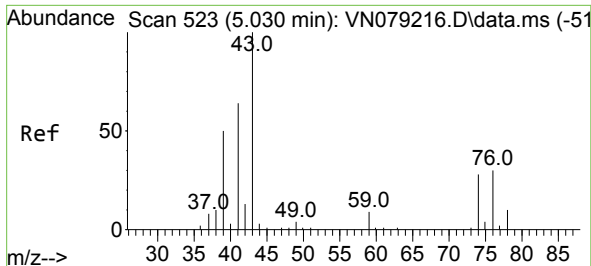
Tgt Ion: 41 Resp: 651
 Ion Ratio Lower Upper
 41 100
 39 0.0 58.8 88.2#
 76 0.0 39.1 58.7#



#16
 Acetone
 Concen: 62.479 ug/l
 RT: 4.436 min Scan# 422
 Delta R.T. -0.006 min
 Lab File: VN079414.D
 Acq: 04 Oct 2023 19:36

Tgt Ion: 43 Resp: 42996
 Ion Ratio Lower Upper
 43 100
 58 32.9 28.0 42.0

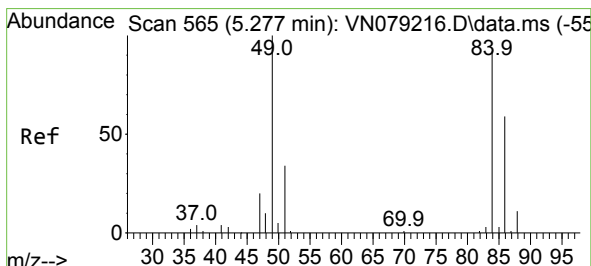
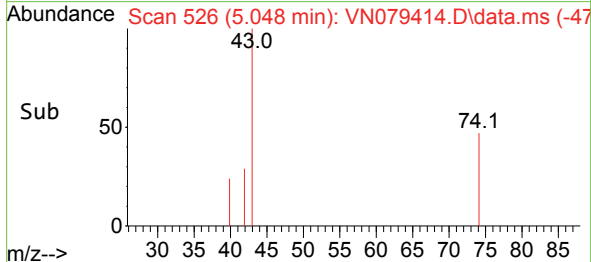
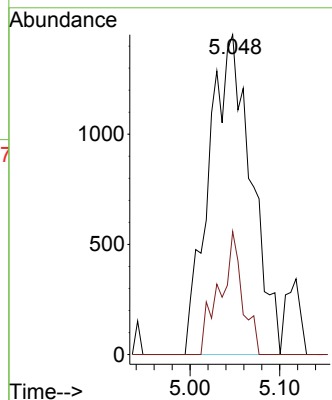
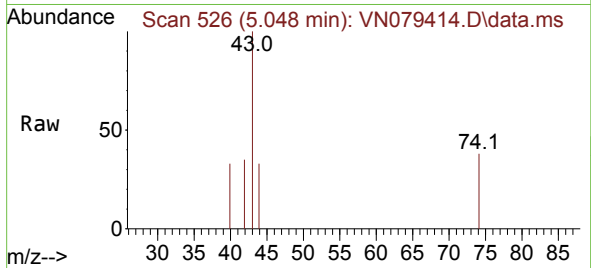




#18
Methyl Acetate
Concen: 1.683 ug/l
RT: 5.048 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN079414.D
Acq: 04 Oct 2023 19:36

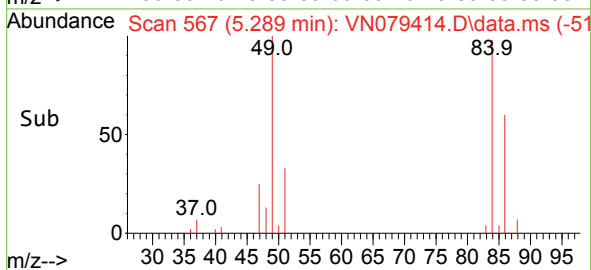
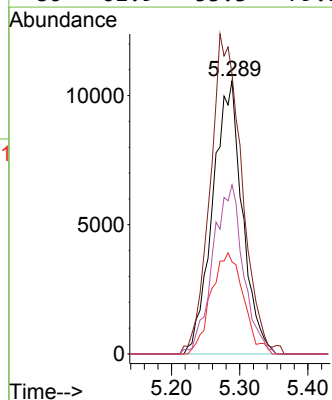
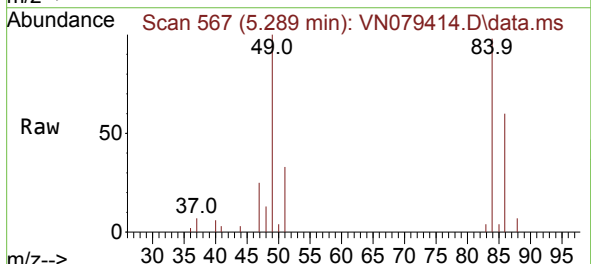
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MSVOA_N
ClientSampleId :

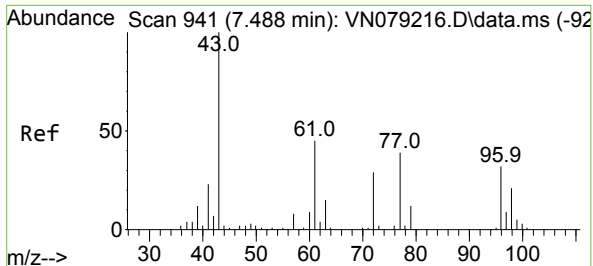
Tgt Ion: 43 Resp: 4761
Ion Ratio Lower Upper
43 100
74 20.7 26.2 39.4#



#20
Methylene Chloride
Concen: 19.102 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN079414.D
Acq: 04 Oct 2023 19:36

Tgt Ion: 84 Resp: 31989
Ion Ratio Lower Upper
84 100
49 102.4 79.7 119.5
51 33.7 25.2 37.8
86 61.9 53.3 79.9





#25

2-Butanone

Concen: 9.941 ug/l

RT: 7.489 min Scan# 941

Delta R.T. -0.005 min

Lab File: VN079414.D

Acq: 04 Oct 2023 19:36

Instrument :

MSVOA_N

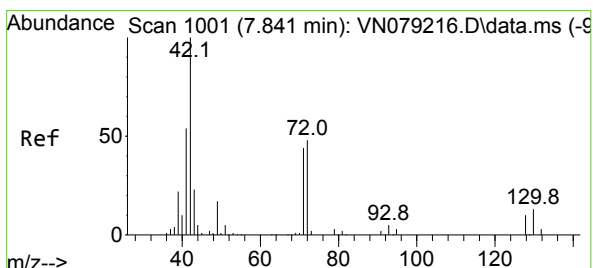
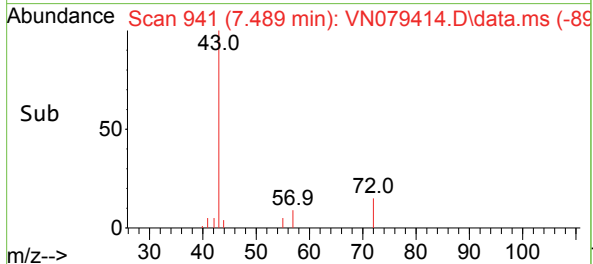
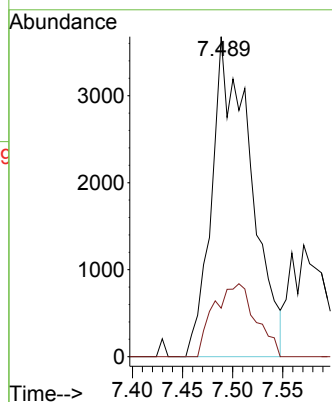
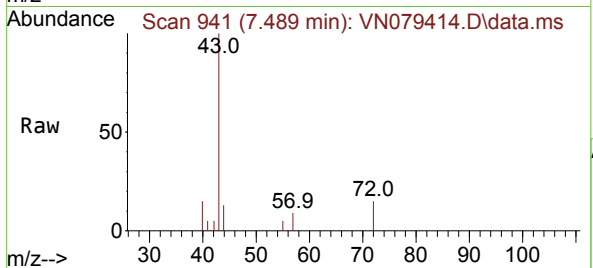
ClientSampleId :

Tgt Ion: 43 Resp: 9926

Ion Ratio Lower Upper

43 100

72 15.2 30.2 45.2#



#29

Tetrahydrofuran

Concen: 1.141 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. 0.006 min

Lab File: VN079414.D

Acq: 04 Oct 2023 19:36

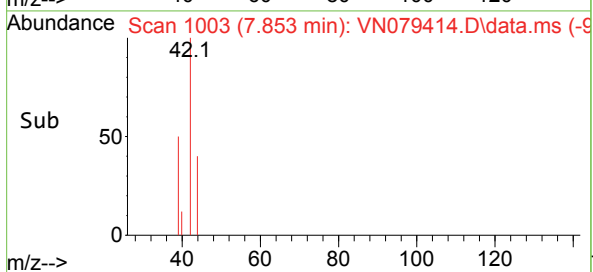
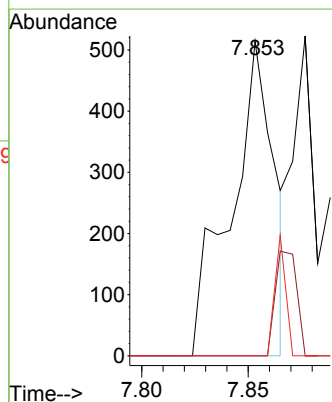
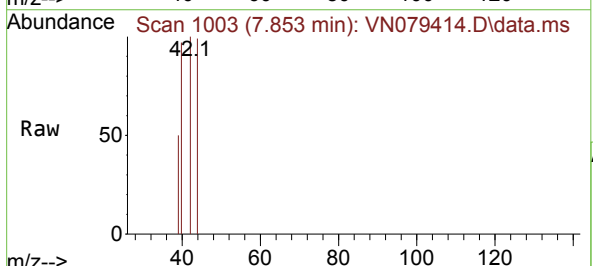
Tgt Ion: 42 Resp: 725

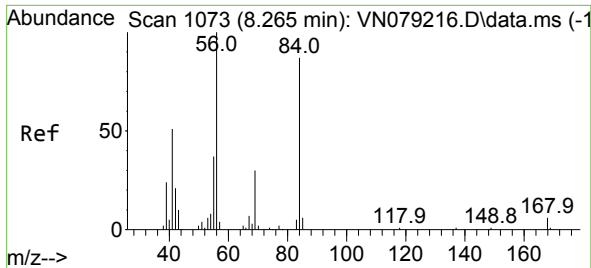
Ion Ratio Lower Upper

42 100

72 16.4 49.8 74.6#

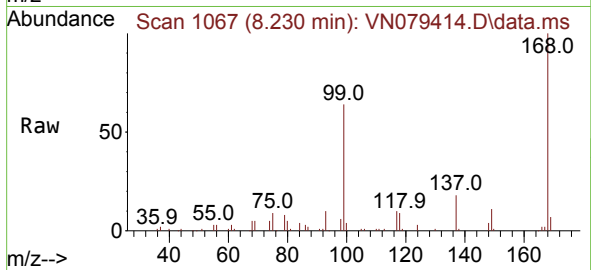
71 9.5 47.4 71.2#



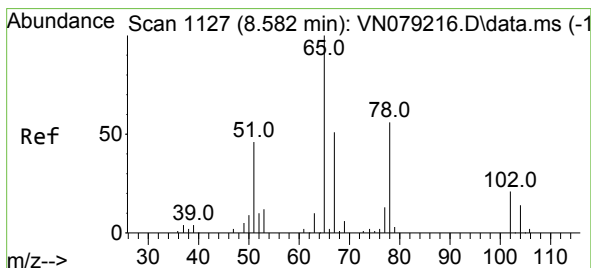
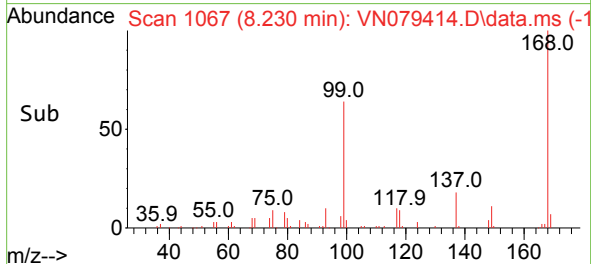
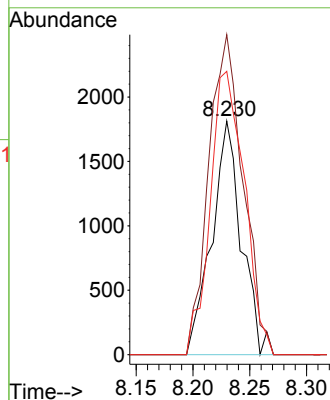


#31
Cyclohexane
Concen: 1.393 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
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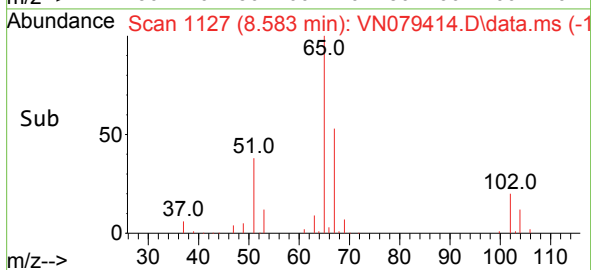
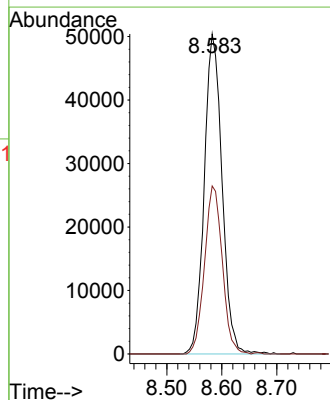
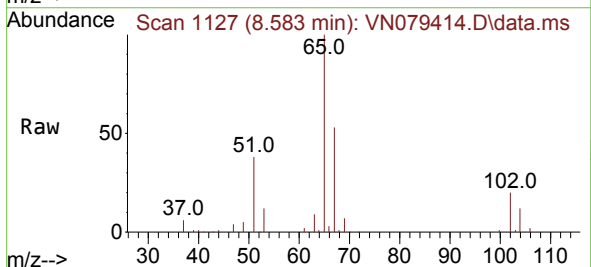


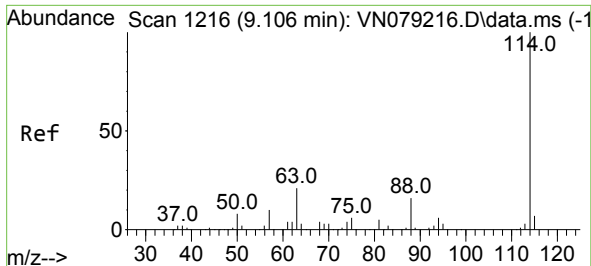
Tgt Ion: 56 Resp: 3296
Ion Ratio Lower Upper
56 100
69 137.0 26.8 40.2#
84 121.3 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 69.915 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN079414.D
Acq: 04 Oct 2023 19:36

Tgt Ion: 65 Resp: 113286
Ion Ratio Lower Upper
65 100
67 52.4 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN079414.D

Acq: 04 Oct 2023 19:36

Instrument :

MSVOA_N

ClientSampleId :

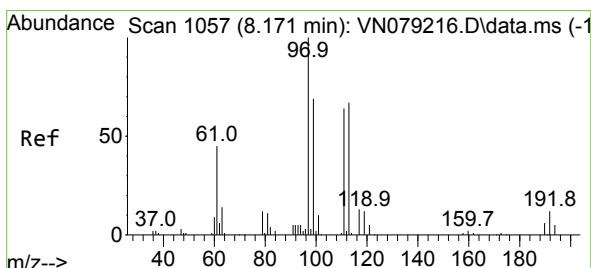
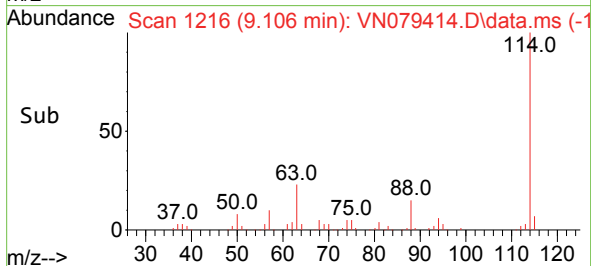
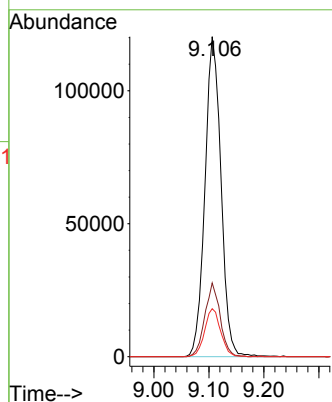
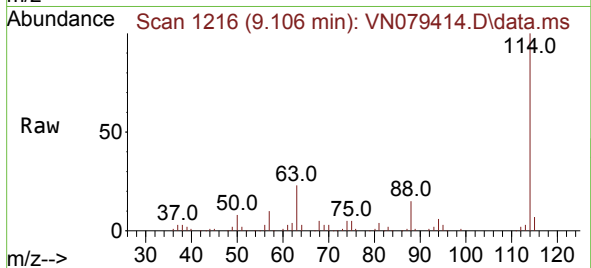
Tgt Ion:114 Resp: 243948

Ion Ratio Lower Upper

114 100

63 23.1 0.0 36.4

88 15.0 0.0 30.6



#35

Dibromofluoromethane

Concen: 54.652 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN079414.D

Acq: 04 Oct 2023 19:36

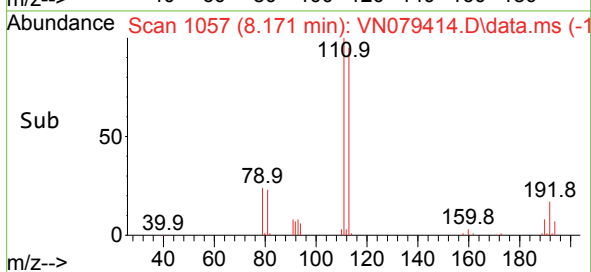
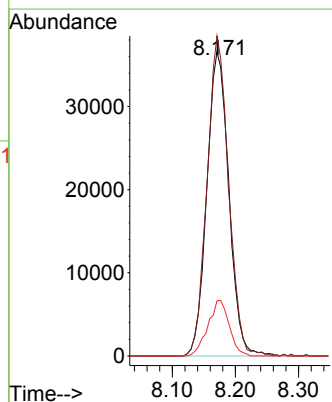
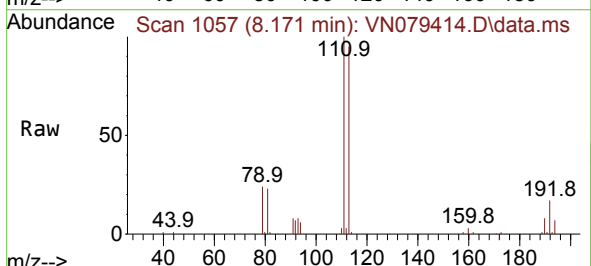
Tgt Ion:113 Resp: 88683

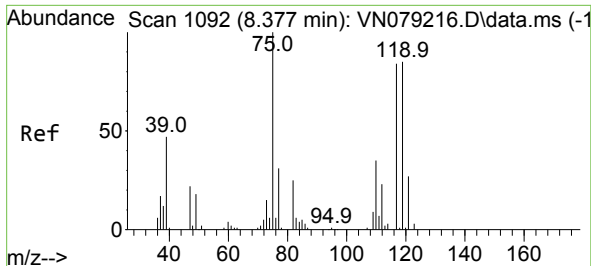
Ion Ratio Lower Upper

113 100

111 102.6 82.6 123.8

192 17.7 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.247 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

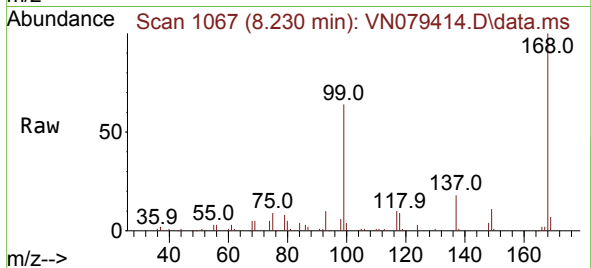
Lab File: VN079414.D

Acq: 04 Oct 2023 19:36

Instrument :

MSVOA_N

ClientSampleId :



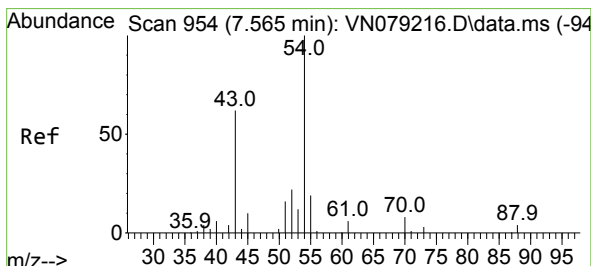
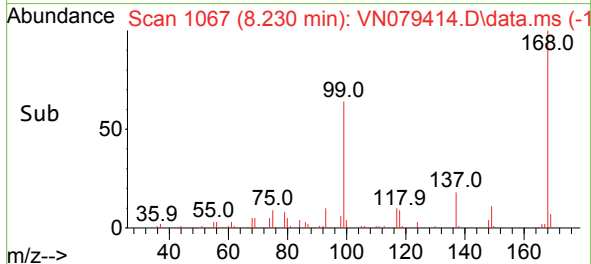
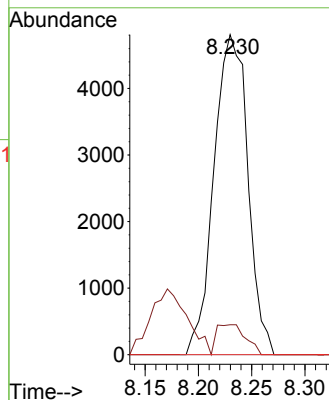
Tgt Ion: 75 Resp: 10623

Ion Ratio Lower Upper

75 100

110 8.1 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.323 ug/l

RT: 7.571 min Scan# 955

Delta R.T. -0.000 min

Lab File: VN079414.D

Acq: 04 Oct 2023 19:36

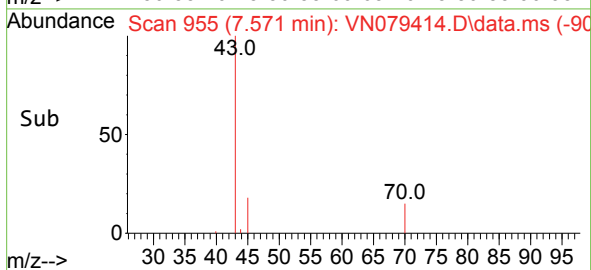
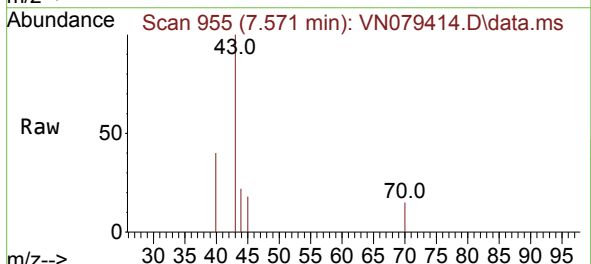
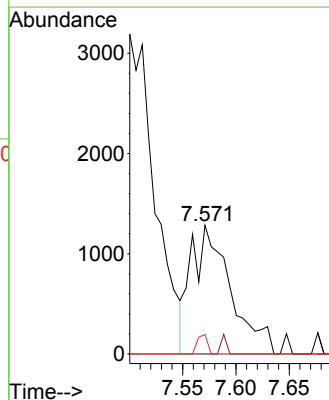
Tgt Ion: 43 Resp: 3300

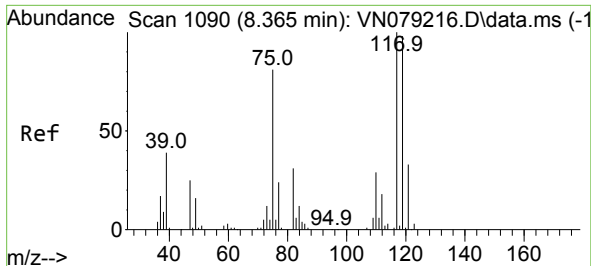
Ion Ratio Lower Upper

43 100

61 2.1 13.2 19.8#

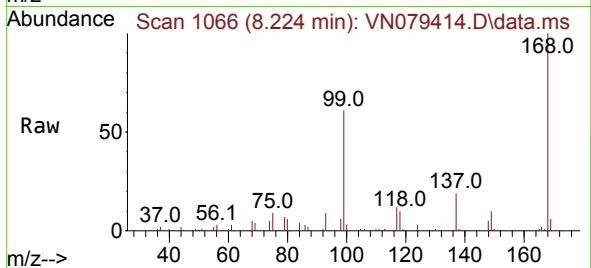
70 3.9 11.3 16.9#



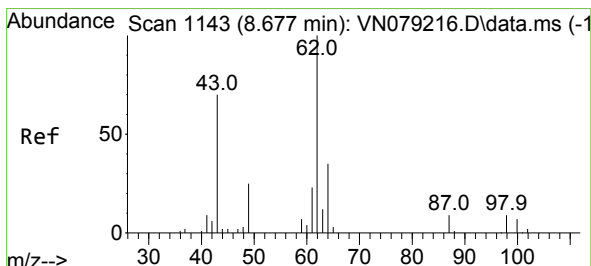
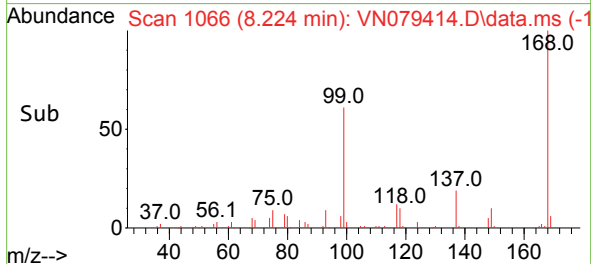
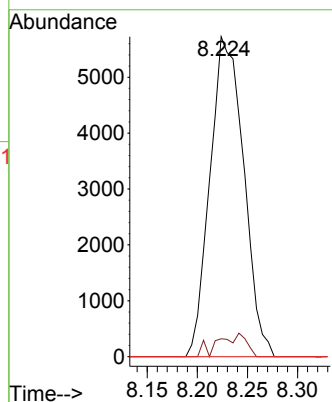


#38
Carbon Tetrachloride
Concen: 5.168 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN079414.D
Acq: 04 Oct 2023 19:36

Instrument :
MSVOA_N
ClientSampleId :

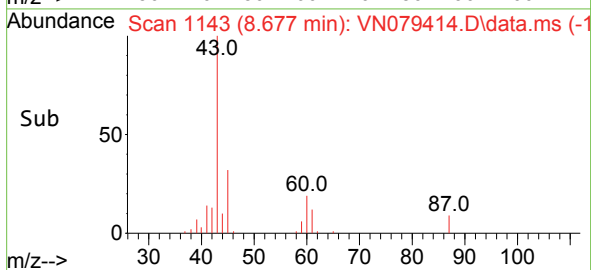
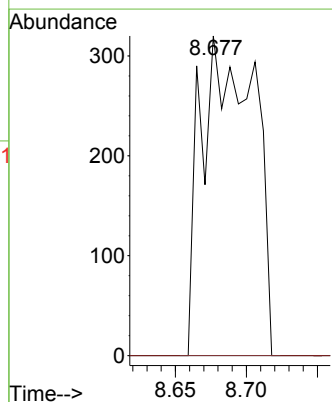
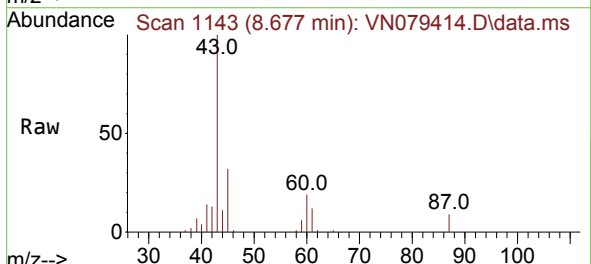


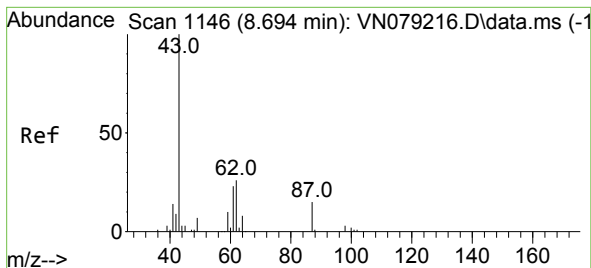
Tgt Ion:117 Resp: 13376
Ion Ratio Lower Upper
117 100
119 5.6 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.314 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN079414.D
Acq: 04 Oct 2023 19:36

Tgt Ion: 62 Resp: 828
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8





#43

Isopropyl Acetate

Concen: 41.032 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

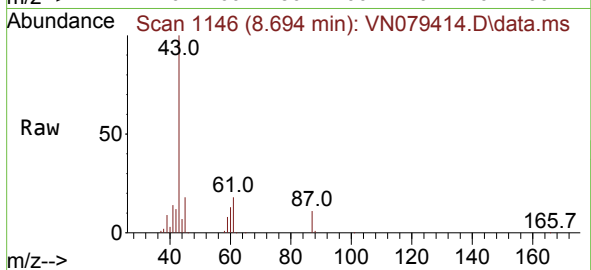
Lab File: VN079414.D

Acq: 04 Oct 2023 19:36

Instrument :

MSVOA_N

ClientSampleId :



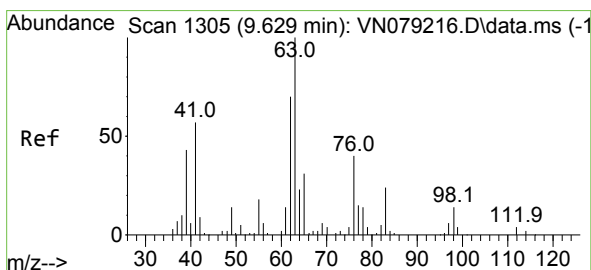
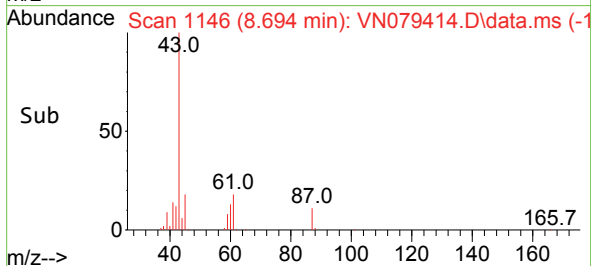
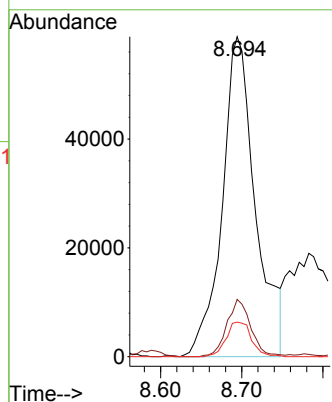
Tgt Ion: 43 Resp: 167025

Ion Ratio Lower Upper

43 100

61 13.0 24.7 37.1#

87 8.3 14.6 21.8#



#45

1,2-Dichloropropane

Concen: 0.623 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.117 min

Lab File: VN079414.D

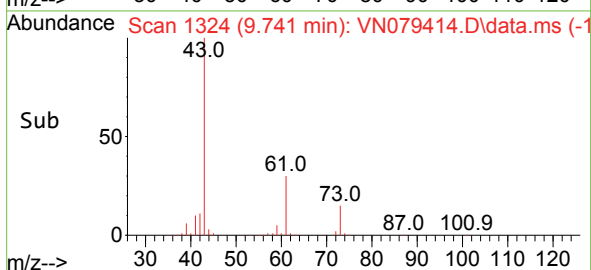
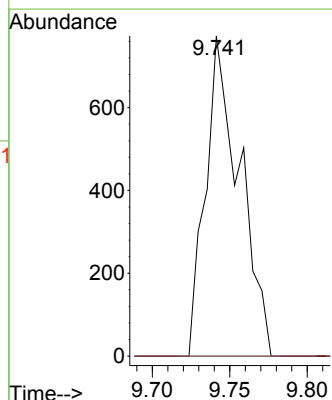
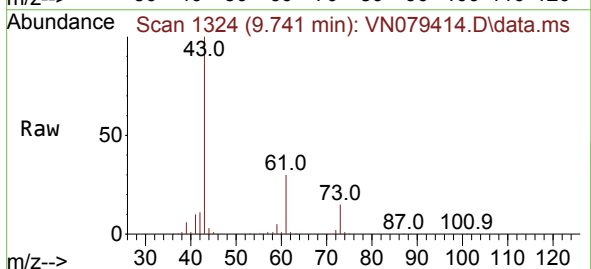
Acq: 04 Oct 2023 19:36

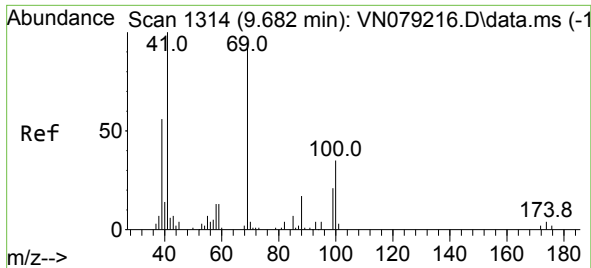
Tgt Ion: 63 Resp: 1183

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#

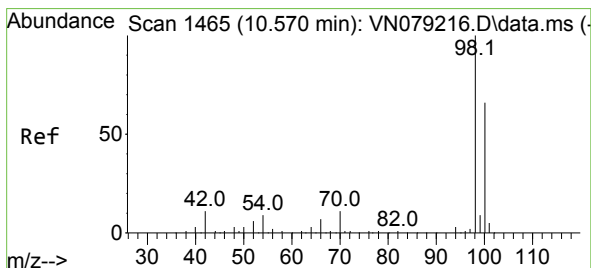
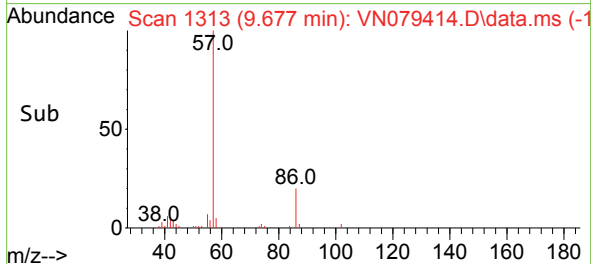
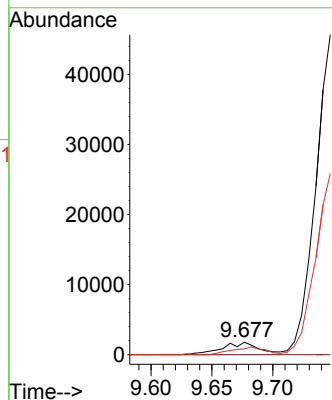
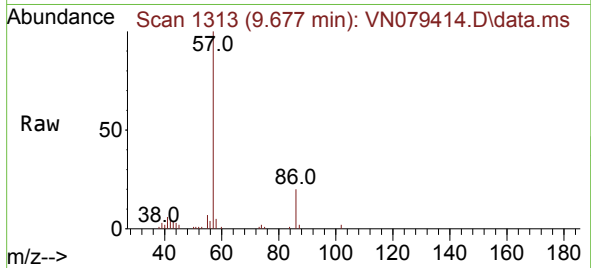




#48
Methyl methacrylate
Concen: 2.040 ug/l
RT: 9.677 min Scan# 11
Delta R.T. -0.011 min
Lab File: VN079414.D
Acq: 04 Oct 2023 19:36

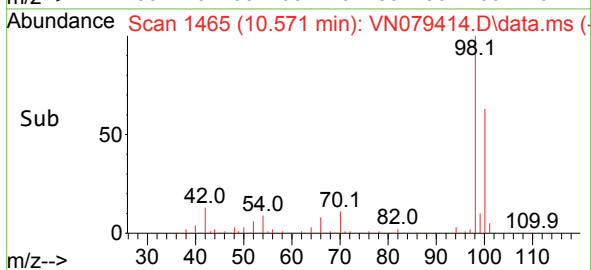
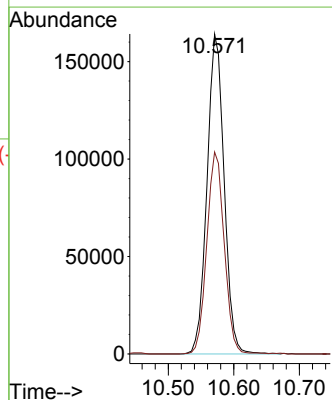
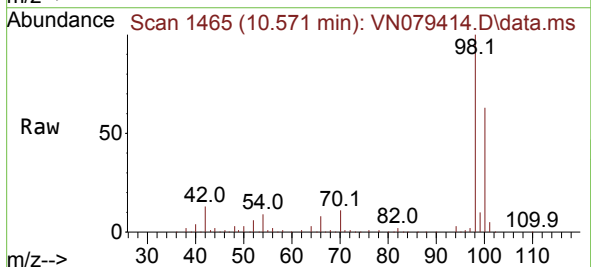
Instrument :
MSVOA_N
ClientSampleId :

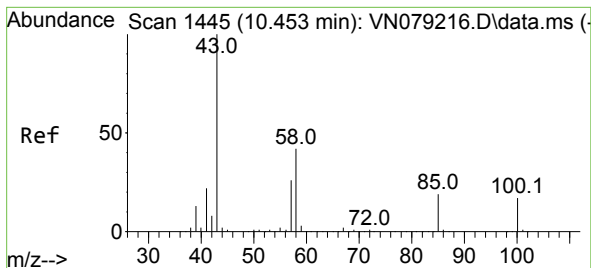
Tgt Ion: 41 Resp: 3719
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 56.4 54.6 81.8



#50
Toluene-d8
Concen: 50.033 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079414.D
Acq: 04 Oct 2023 19:36

Tgt Ion: 98 Resp: 298113
Ion Ratio Lower Upper
98 100
100 64.2 52.0 78.0

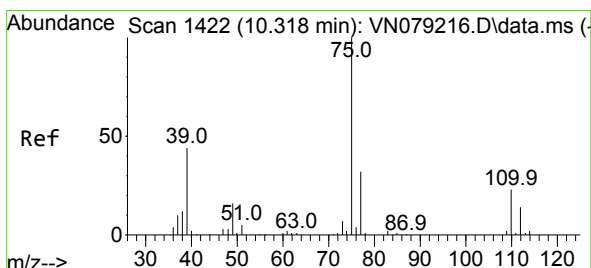
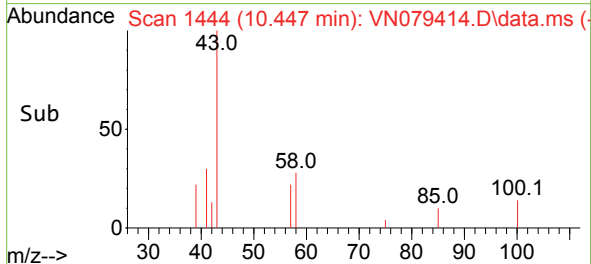
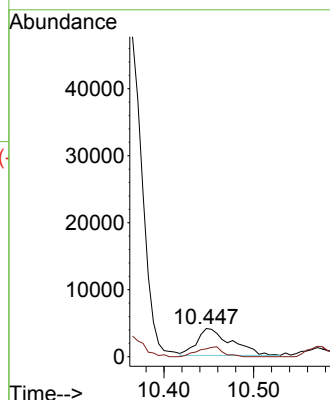
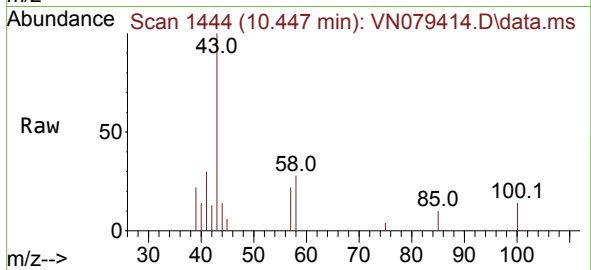




#51
4-Methyl-2-Pentanone
Concen: 4.522 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN079414.D
Acq: 04 Oct 2023 19:36

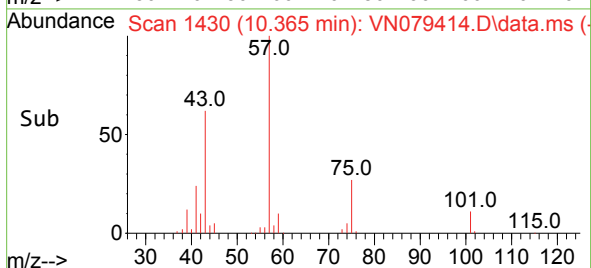
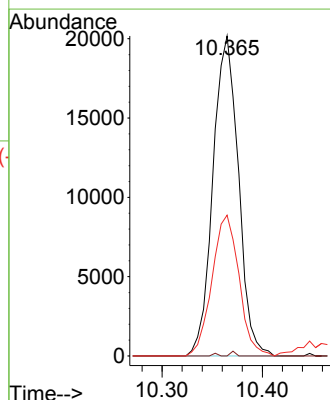
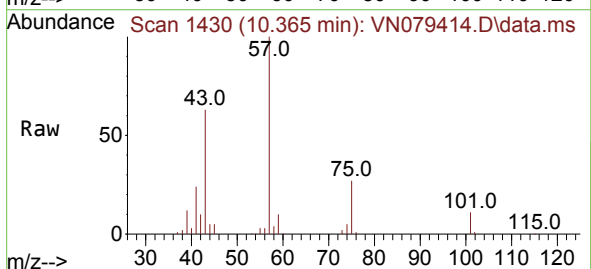
Instrument :
MSVOA_N
ClientSampleId :

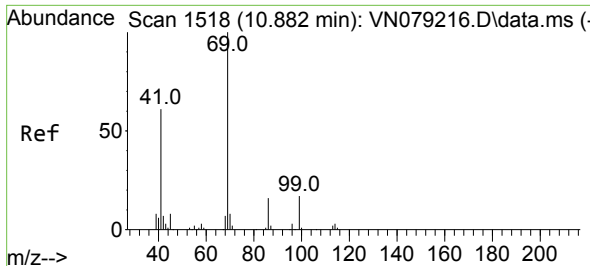
Tgt Ion: 43 Resp: 10685
Ion Ratio Lower Upper
43 100
58 26.1 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 11.913 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN079414.D
Acq: 04 Oct 2023 19:36

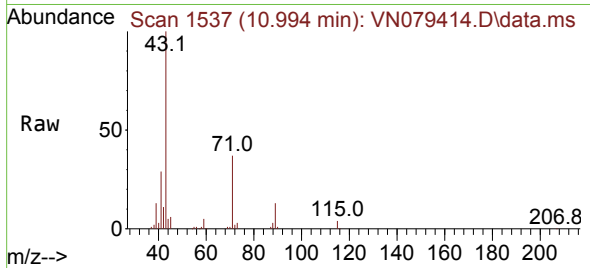
Tgt Ion: 75 Resp: 35497
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 44.0 31.6 47.4



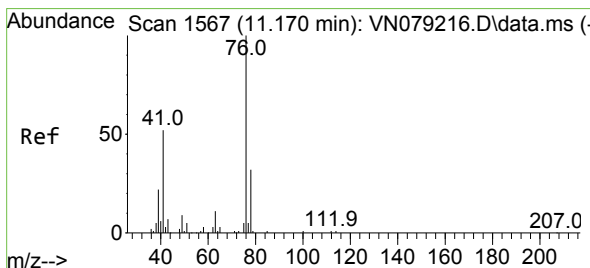
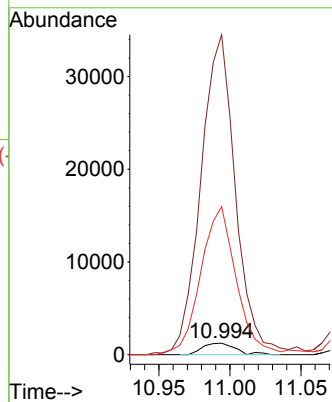
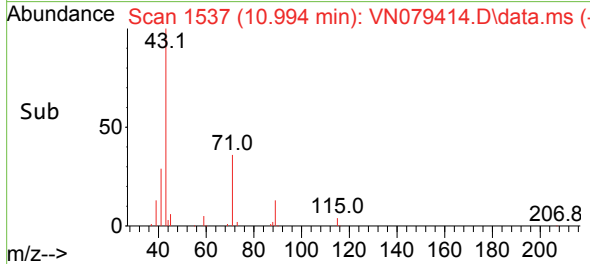


#56
Ethyl methacrylate
Concen: 0.776 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.117 min
Lab File: VN079414.D
Acq: 04 Oct 2023 19:36

Instrument :
MSVOA_N
ClientSampleId :

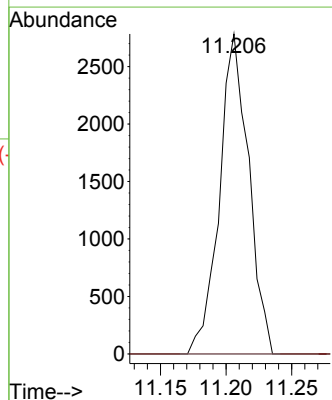
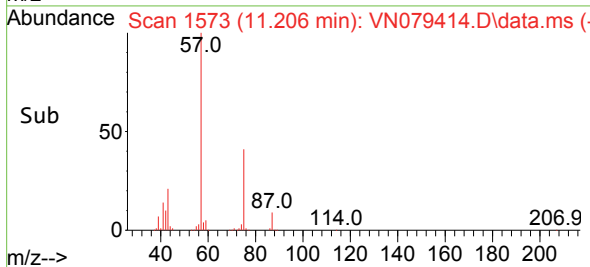
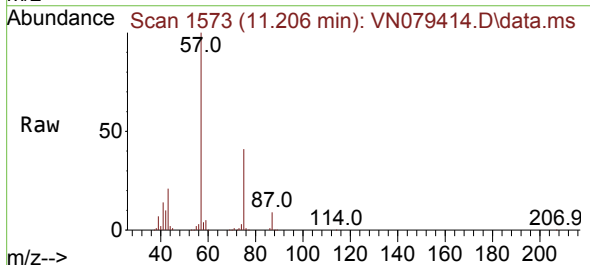


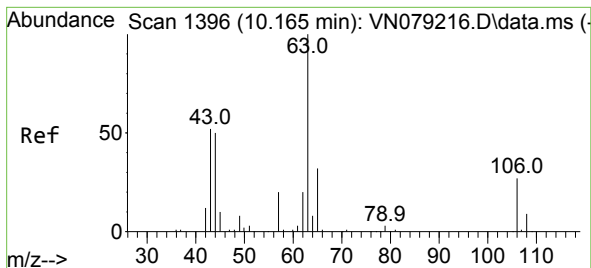
Tgt Ion: 69 Resp: 2023
Ion Ratio Lower Upper
69 100
41 2919.9 39.6 59.4#
39 1397.4 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.350 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN079414.D
Acq: 04 Oct 2023 19:36

Tgt Ion: 76 Resp: 4308
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

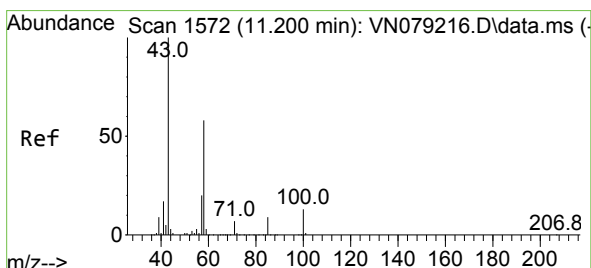
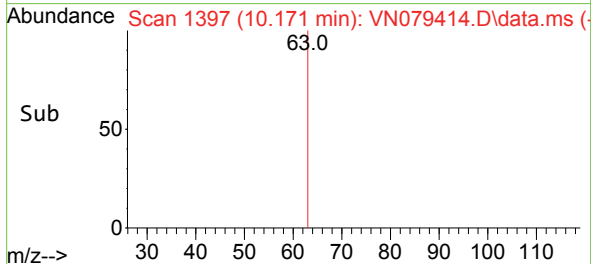
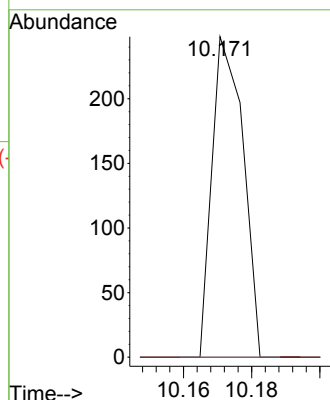
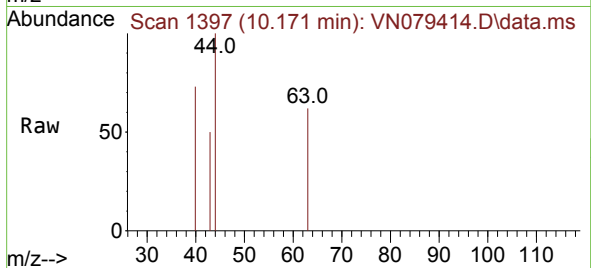




#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 10.171 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN079414.D
Acq: 04 Oct 2023 19:36

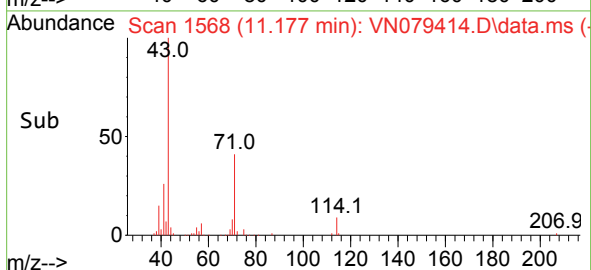
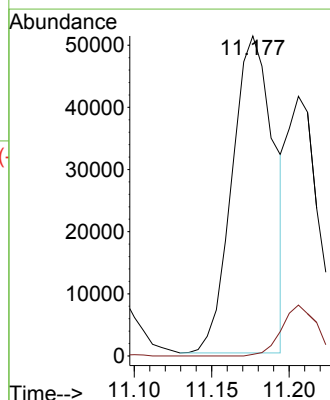
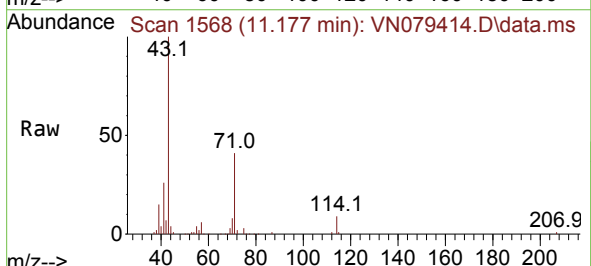
Instrument :
MSVOA_N
ClientSampleId :

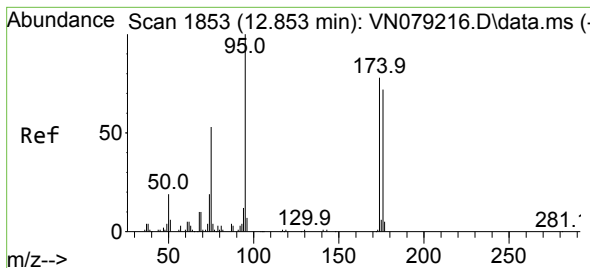
Tgt Ion: 63 Resp: 157
Ion Ratio Lower Upper
63 100
106 0.0 26.2 39.4#



#59
2-Hexanone
Concen: 56.002 ug/l
RT: 11.177 min Scan# 1568
Delta R.T. -0.023 min
Lab File: VN079414.D
Acq: 04 Oct 2023 19:36

Tgt Ion: 43 Resp: 95846
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#

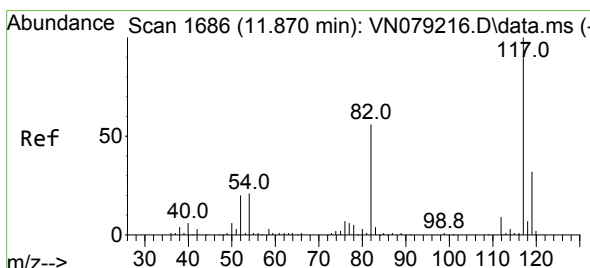
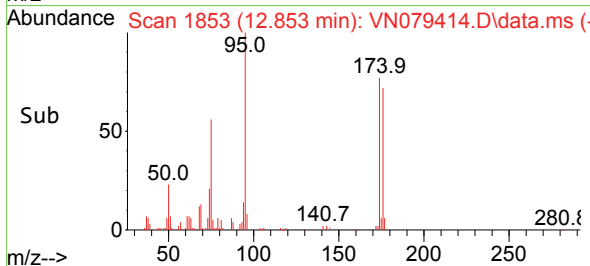
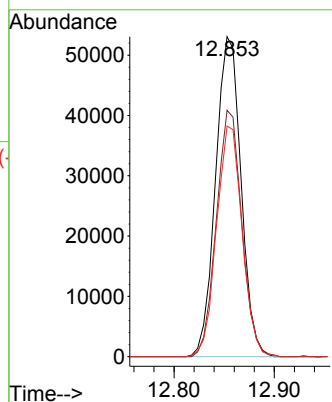
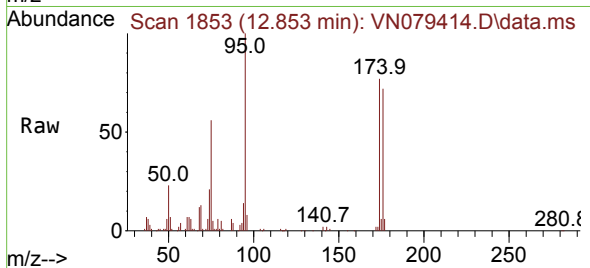




#62
4-Bromofluorobenzene
Concen: 49.132 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079414.D
Acq: 04 Oct 2023 19:36

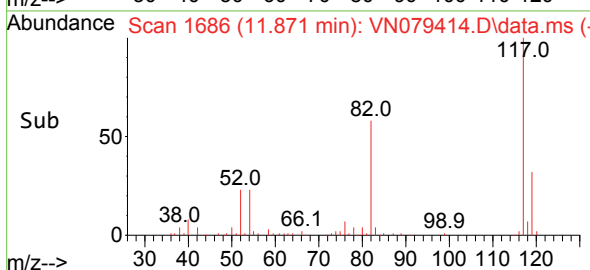
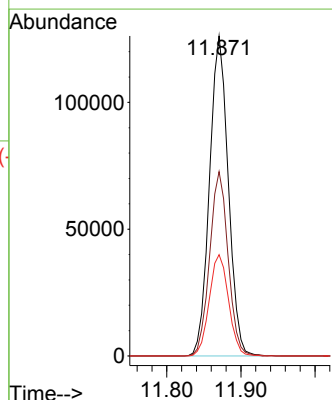
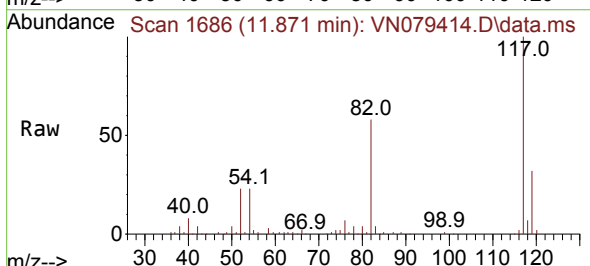
Instrument :
MSVOA_N
ClientSampleId :

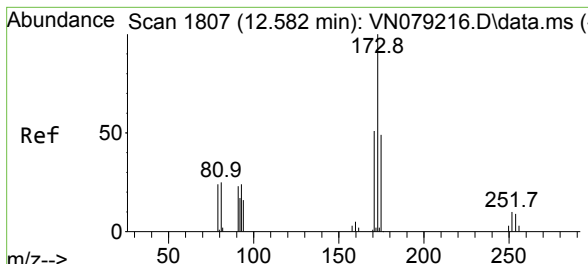
Tgt Ion: 95 Resp: 93379
Ion Ratio Lower Upper
95 100
174 76.9 0.0 143.8
176 72.5 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN079414.D
Acq: 04 Oct 2023 19:36

Tgt Ion: 117 Resp: 221711
Ion Ratio Lower Upper
117 100
82 57.6 44.0 66.0
119 31.6 25.6 38.4

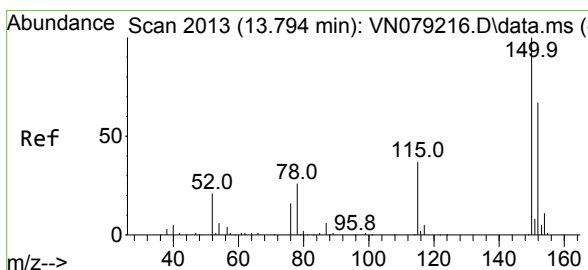
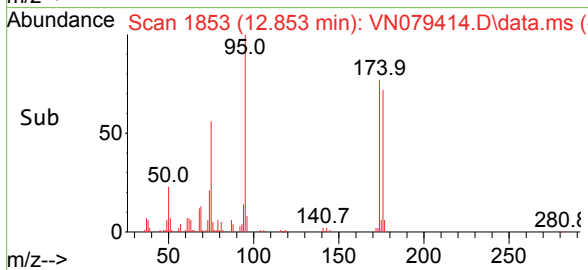
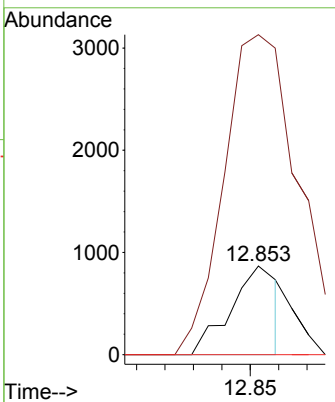
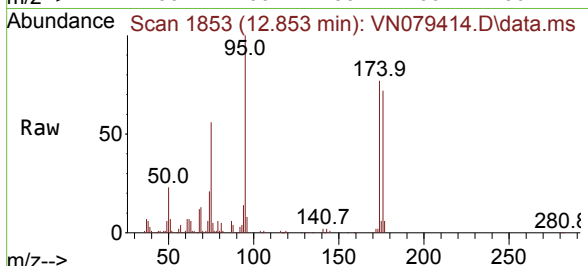




#71
 Bromoform
 Concen: 0.717 ug/l
 RT: 12.853 min Scan# 1807
 Delta R.T. 0.271 min
 Lab File: VN079414.D
 Acq: 04 Oct 2023 19:36

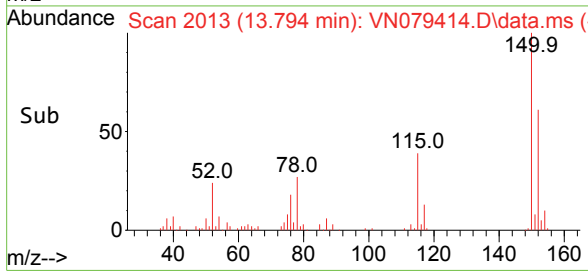
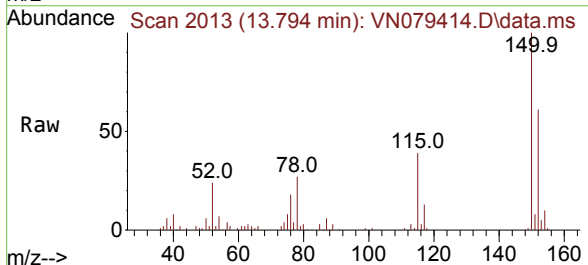
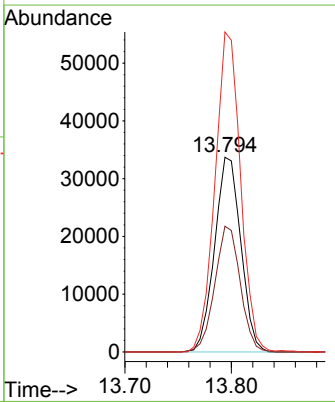
Instrument :
 MSVOA_N
 ClientSampleId :

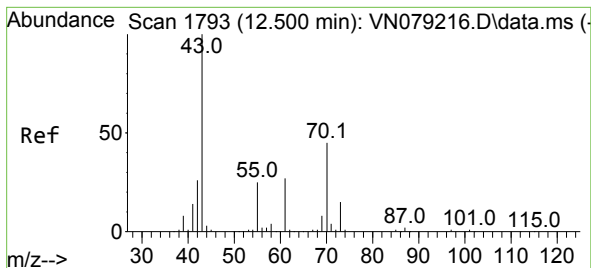
Tgt Ion:	173	Resp:	997
Ion Ratio	Lower	Upper	
173	100		
175	423.1	24.3	73.0#
254	0.0	0.0	0.0



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. 0.000 min
 Lab File: VN079414.D
 Acq: 04 Oct 2023 19:36

Tgt Ion:	152	Resp:	57510
Ion Ratio	Lower	Upper	
152	100		
115	62.7	32.3	96.8
150	160.3	0.0	355.8





#74

N-amy1 acetate

Concen: 0.479 ug/l

RT: 12.459 min Scan# 1

Delta R.T. -0.041 min

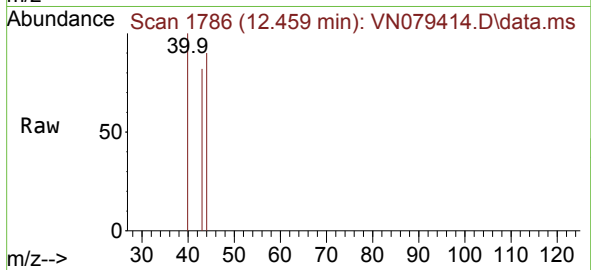
Lab File: VN079414.D

Acq: 04 Oct 2023 19:36

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 951

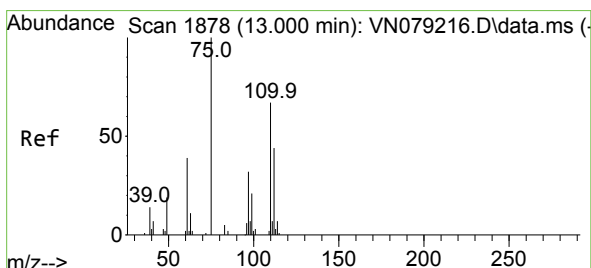
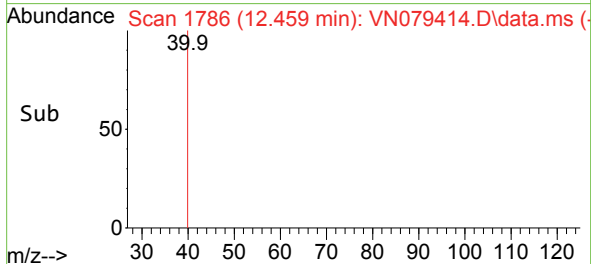
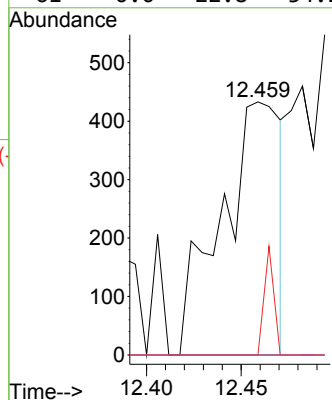
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 6.9 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 33.682 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079414.D

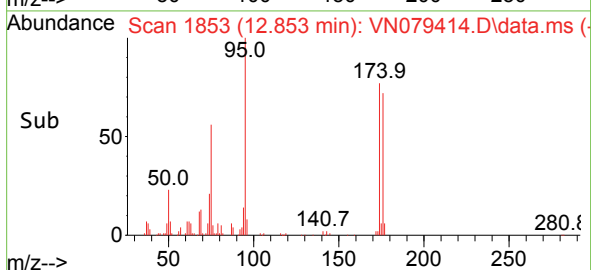
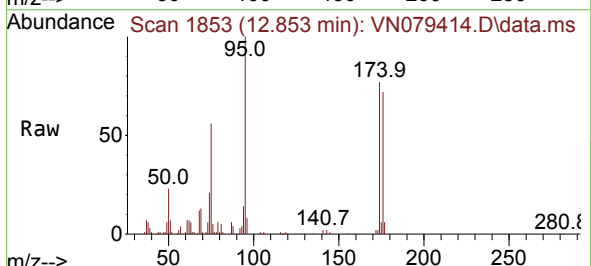
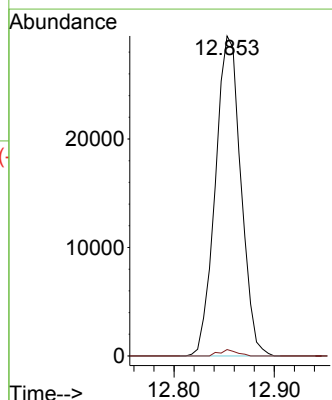
Acq: 04 Oct 2023 19:36

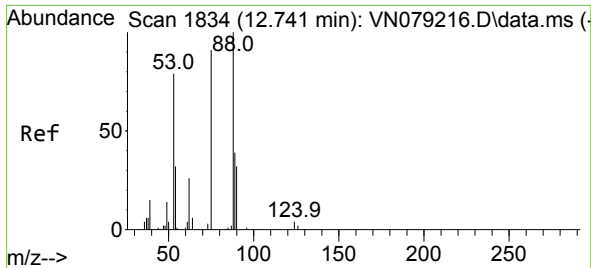
Tgt Ion: 75 Resp: 52206

Ion Ratio Lower Upper

75 100

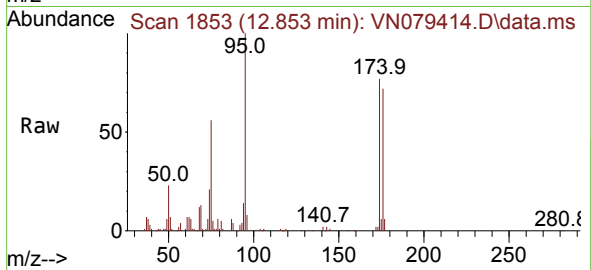
77 1.3 84.5 253.5#





#81
trans-1,4-Dichloro-2-butene
Concen: 92.599 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN079414.D
Acq: 04 Oct 2023 19:36

Instrument :
MSVOA_N
ClientSampleId :



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

