

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102323\
 Data File : VN079644.D
 Acq On : 23 Oct 2023 13:23
 Operator : JC\MD
 Sample : PB156545ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 23 23:49:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N100523W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 06 03:34:49 2023
 Response via : Initial Calibration

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

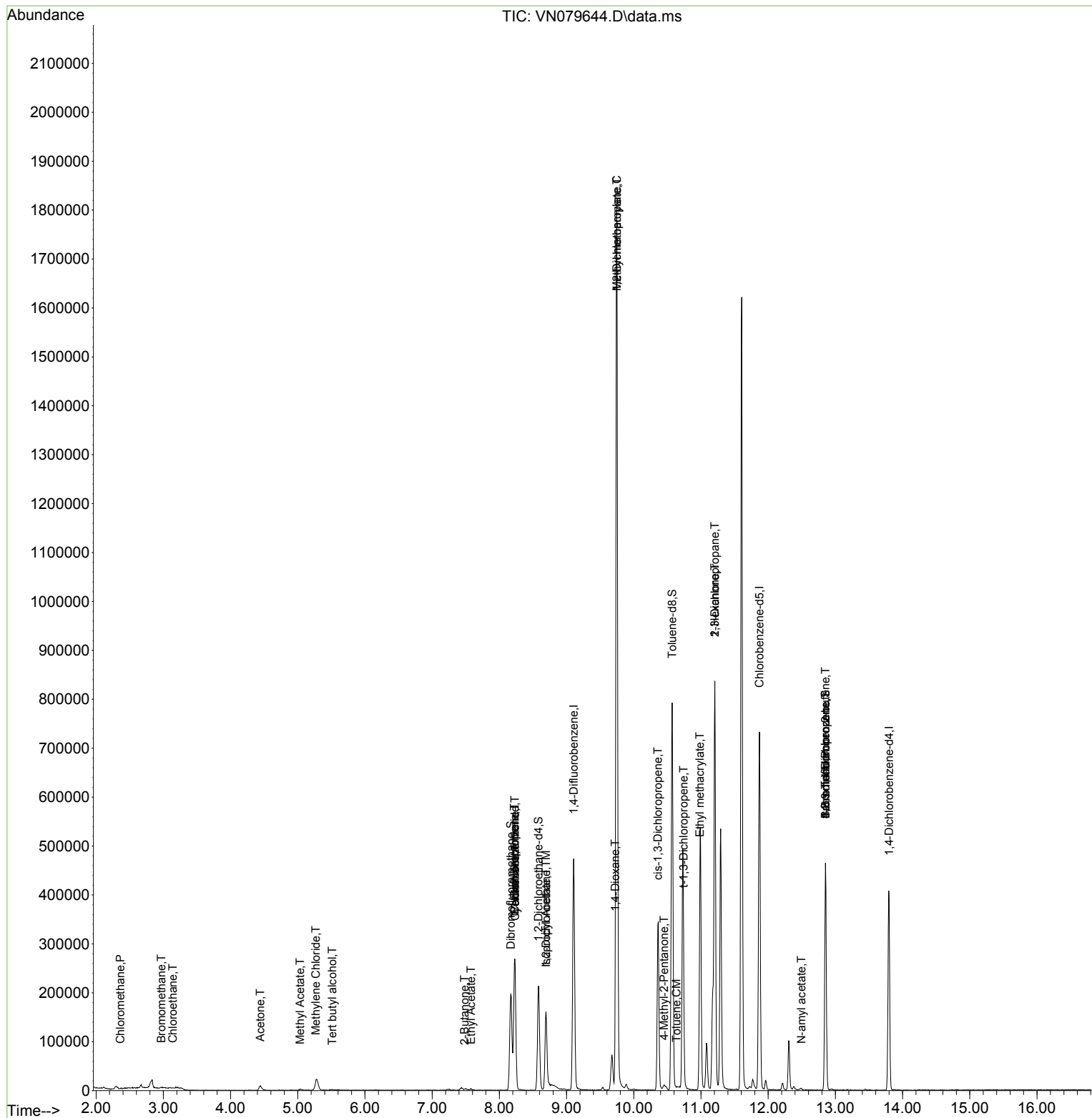
Internal Standards						
1) Pentafluorobenzene	8.230	168	187688	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	391354	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	411886	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	106174	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	167362	54.995	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.000%			
35) Dibromofluoromethane	8.171	113	141476	50.304	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.600%			
50) Toluene-d8	10.571	98	536677	52.739	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.480%			
62) 4-Bromofluorobenzene	12.853	95	151487	46.387	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 92.780%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	799	0.238	ug/l	91
5) Bromomethane	2.971	94	707	0.338	ug/l #	9
6) Chloroethane	3.142	64	862	0.328	ug/l #	43
11) Tert butyl alcohol	5.512	59	1011	2.207	ug/l #	72
16) Acetone	4.442	43	17300	14.333	ug/l #	84
18) Methyl Acetate	5.036	43	3123	0.529	ug/l #	86
20) Methylene Chloride	5.271	84	17506	6.094	ug/l	88
25) 2-Butanone	7.482	43	2449	1.367	ug/l #	37
31) Cyclohexane	8.235	56	5089	1.179	ug/l #	57
36) 1,1-Dichloropropene	8.224	75	18180	4.307	ug/l #	47
37) Ethyl Acetate	7.577	43	4750	1.131	ug/l #	80
38) Carbon Tetrachloride	8.230	117	21475	5.082	ug/l #	16
42) 1,2-Dichloroethane	8.694	62	1302	0.286	ug/l #	73
43) Isopropyl Acetate	8.694	43	182564	24.810	ug/l #	78
45) 1,2-Dichloropropane	9.747	63	2343	0.709	ug/l #	45
48) Methyl methacrylate	9.747	41	167933	53.258	ug/l #	29
49) 1,4-Dioxane	9.724	88	62	1.067	ug/l #	30
51) 4-Methyl-2-Pentanone	10.453	43	6608	1.591	ug/l	92
52) Toluene	10.635	92	1642	0.223	ug/l	83
53) t-1,3-Dichloropropene	10.741	75	1222	0.276	ug/l #	54
54) cis-1,3-Dichloropropene	10.359	75	59439	12.245	ug/l #	73
56) Ethyl methacrylate	10.982	69	2986	0.734	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	8947	1.749	ug/l #	42
59) 2-Hexanone	11.206	43	101625	33.904	ug/l #	50
71) Bromoform	12.853	173	913	0.371	ug/l #	1
74) N-amyl acetate	12.494	43	2593	0.640	ug/l #	37
75) 1,1,2,2-Tetrachloroethane	12.870	83	63	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	81789	26.717	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	81789	77.521	ug/l #	15

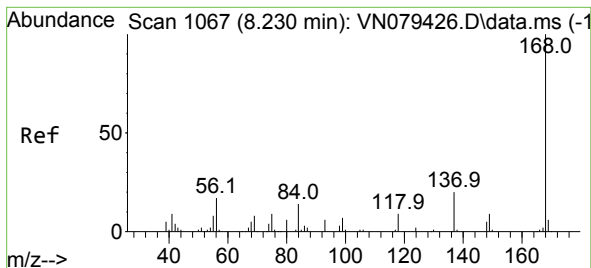
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Oct 06 03:34:49 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.000 min

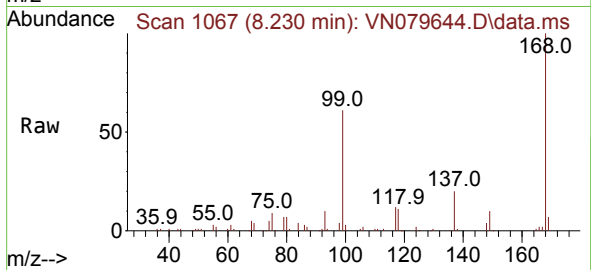
Lab File: VN079644.D

Acq: 23 Oct 2023 13:23

Instrument :

MSVOA_N

ClientSampleId :

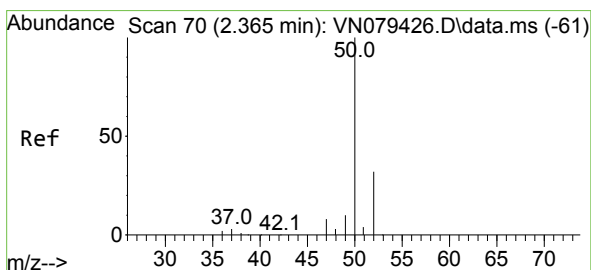
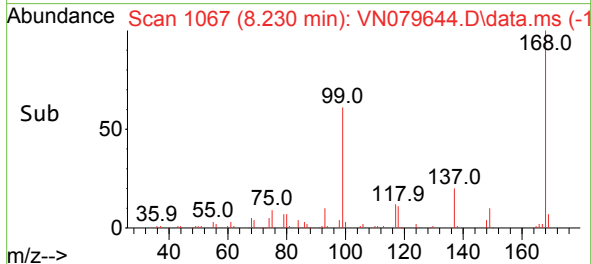
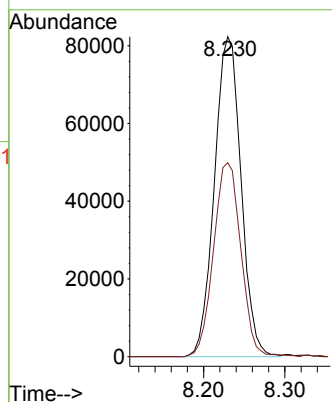


Tgt Ion:168 Resp: 187688

Ion Ratio Lower Upper

168 100

99 60.6 53.0 79.6



#3

Chloromethane

Concen: 0.238 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.006 min

Lab File: VN079644.D

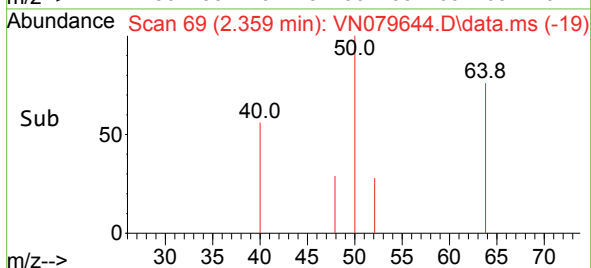
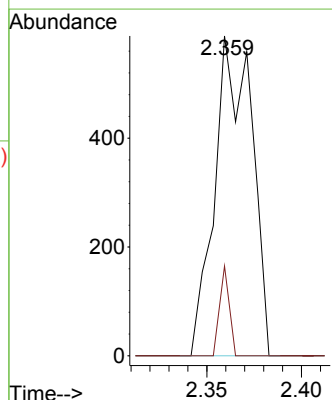
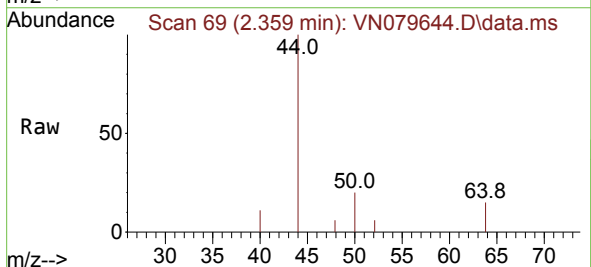
Acq: 23 Oct 2023 13:23

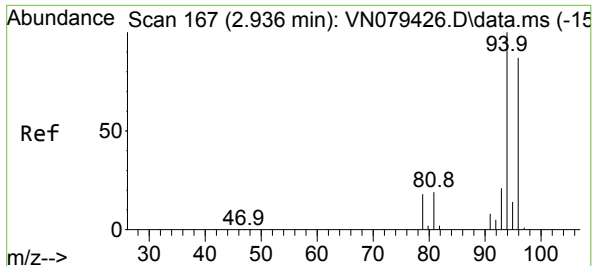
Tgt Ion: 50 Resp: 799

Ion Ratio Lower Upper

50 100

52 28.1 26.5 39.7





#5

Bromomethane

Concen: 0.338 ug/l

RT: 2.971 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN079644.D

Acq: 23 Oct 2023 13:23

Instrument :

MSVOA_N

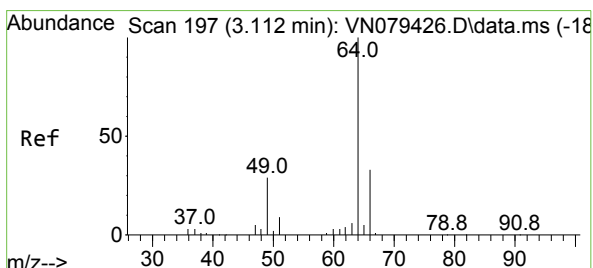
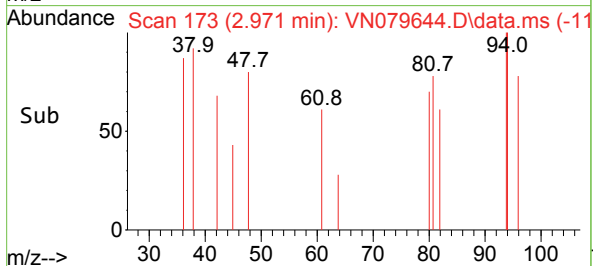
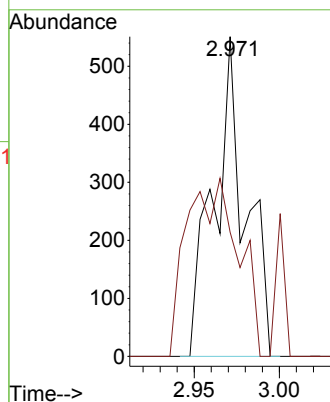
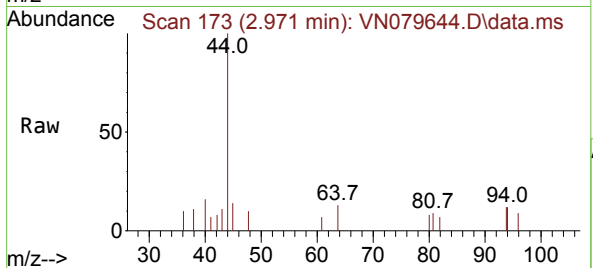
ClientSampleId :

Tgt Ion: 94 Resp: 707

Ion Ratio Lower Upper

94 100

96 4.9 73.1 109.7#



#6

Chloroethane

Concen: 0.328 ug/l

RT: 3.142 min Scan# 202

Delta R.T. 0.029 min

Lab File: VN079644.D

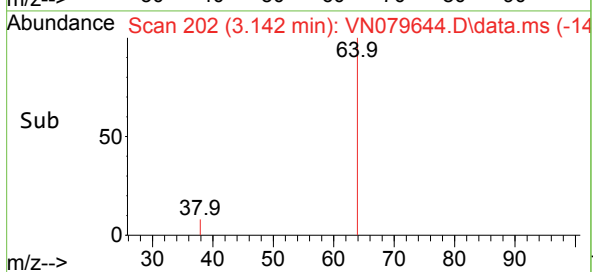
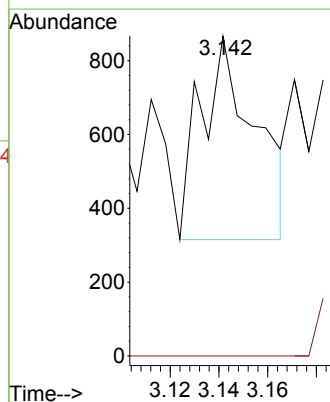
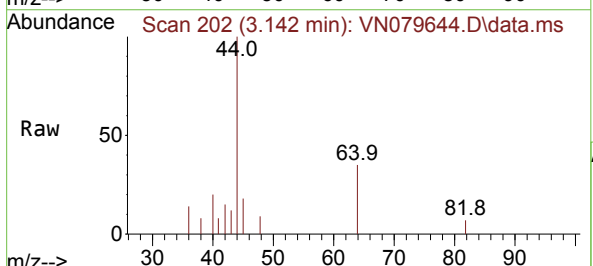
Acq: 23 Oct 2023 13:23

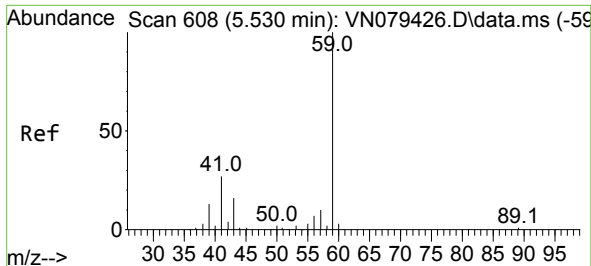
Tgt Ion: 64 Resp: 862

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.2#

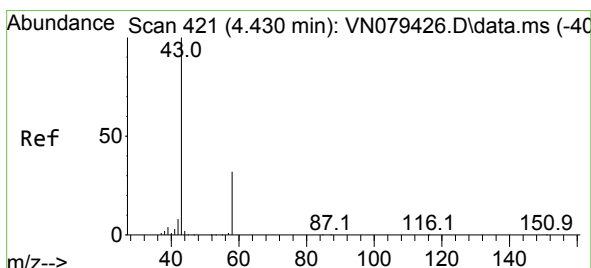
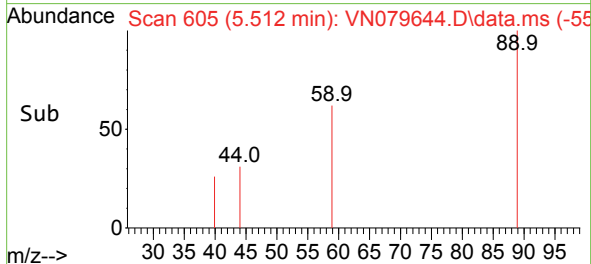
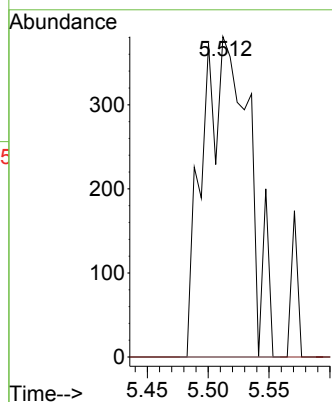
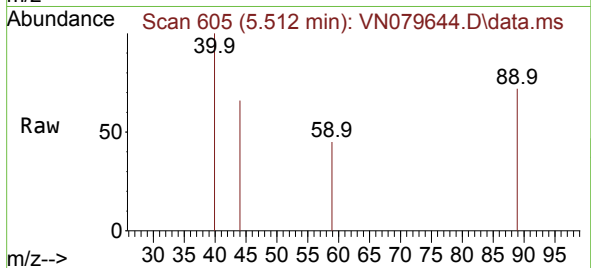




#11
Tert butyl alcohol
Concen: 2.207 ug/l
RT: 5.512 min Scan# 608
Delta R.T. -0.018 min
Lab File: VN079644.D
Acq: 23 Oct 2023 13:23

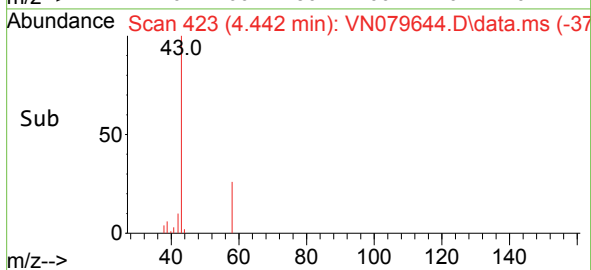
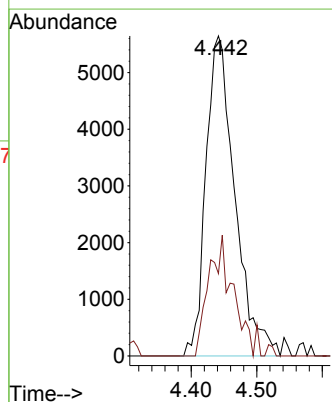
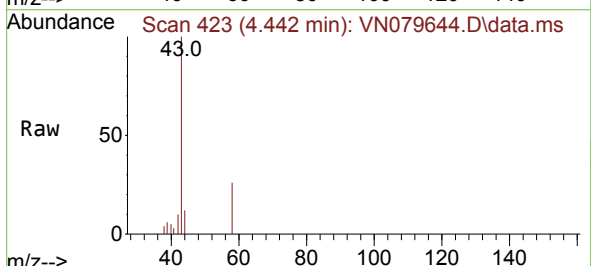
Instrument :
MSVOA_N
ClientSampleId :

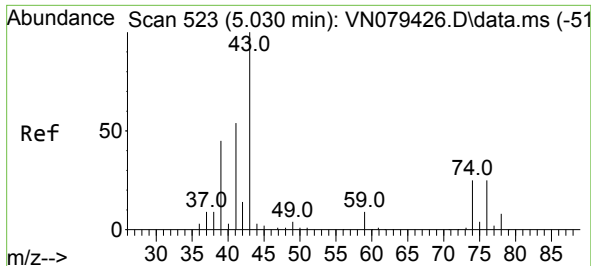
Tgt Ion: 59 Resp: 1011
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 14.333 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.012 min
Lab File: VN079644.D
Acq: 23 Oct 2023 13:23

Tgt Ion: 43 Resp: 17300
Ion Ratio Lower Upper
43 100
58 25.8 28.0 42.0#

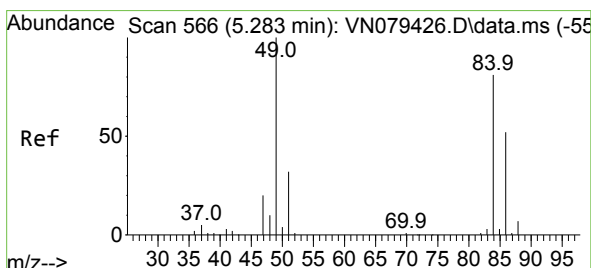
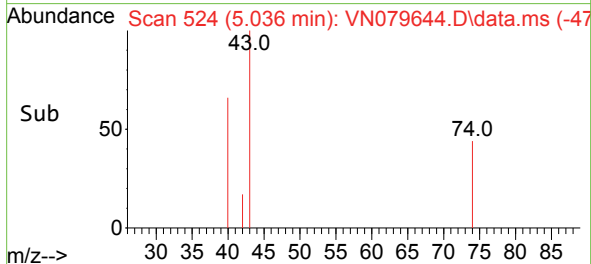
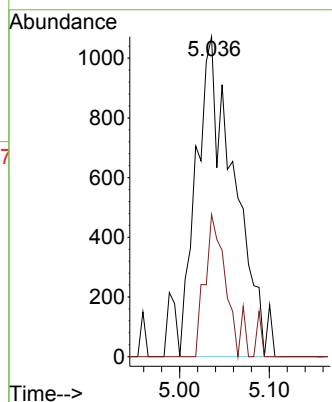
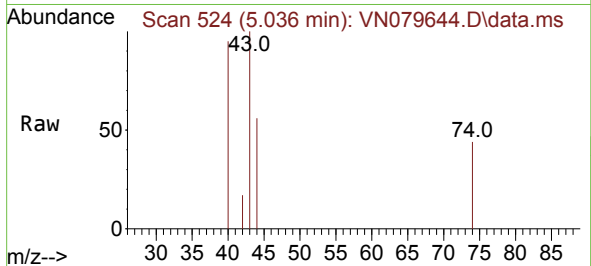




#18
Methyl Acetate
Concen: 0.529 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN079644.D
Acq: 23 Oct 2023 13:23

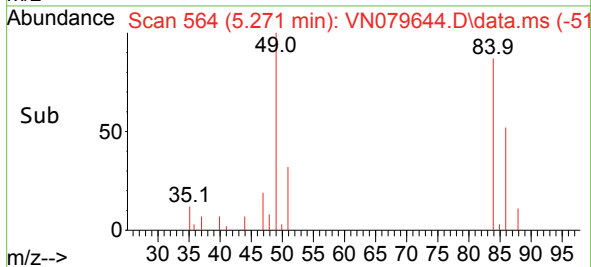
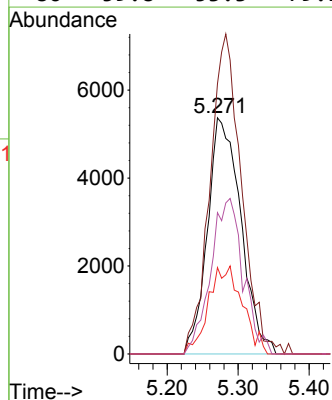
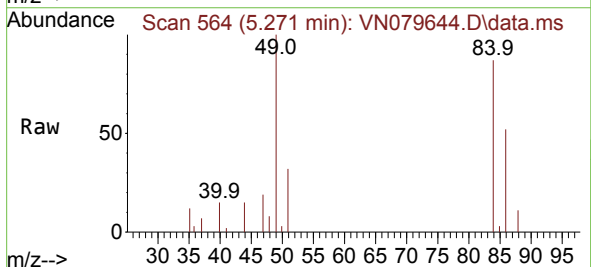
Instrument :
MSVOA_N
ClientSampleId :

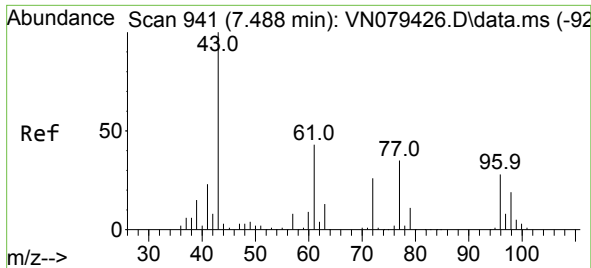
Tgt Ion: 43 Resp: 3123
Ion Ratio Lower Upper
43 100
74 25.1 26.2 39.4#



#20
Methylene Chloride
Concen: 6.094 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.012 min
Lab File: VN079644.D
Acq: 23 Oct 2023 13:23

Tgt Ion: 84 Resp: 17506
Ion Ratio Lower Upper
84 100
49 114.4 79.7 119.5
51 36.6 25.2 37.8
86 59.8 53.3 79.9

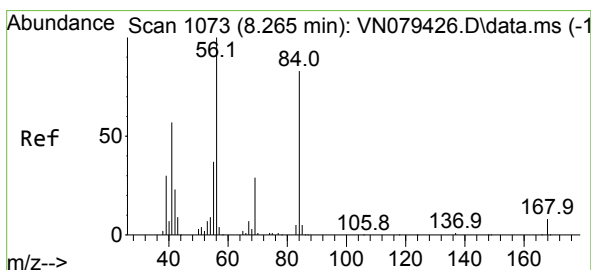
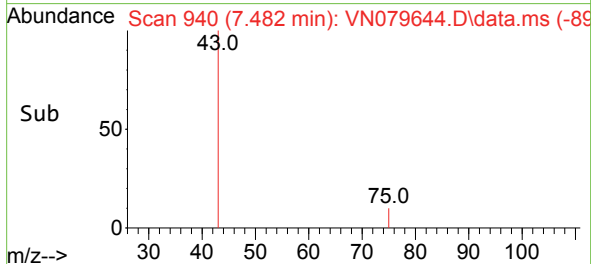
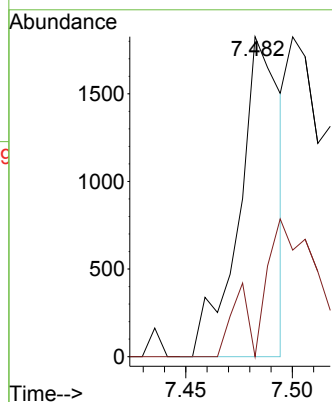
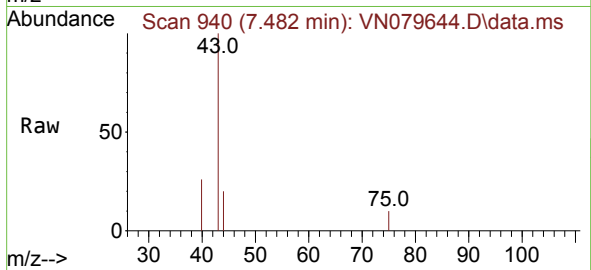




#25
2-Butanone
Concen: 1.367 ug/l
RT: 7.482 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN079644.D
Acq: 23 Oct 2023 13:23

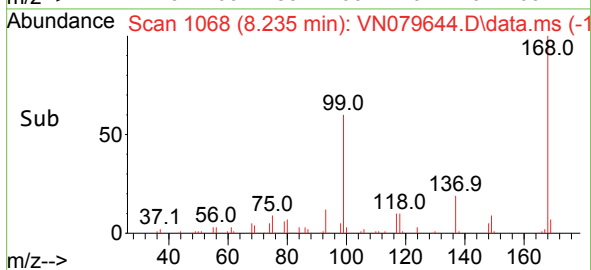
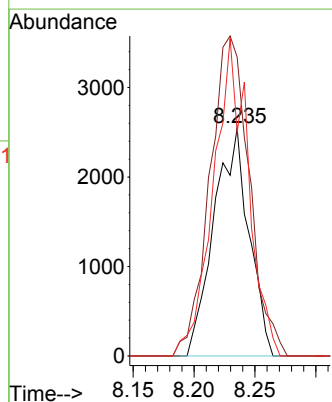
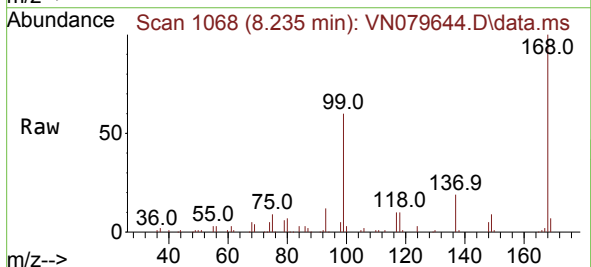
Instrument :
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ClientSampleId :

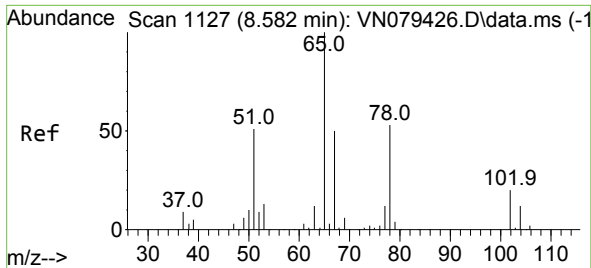
Tgt Ion: 43 Resp: 2449
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#



#31
Cyclohexane
Concen: 1.179 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN079644.D
Acq: 23 Oct 2023 13:23

Tgt Ion: 56 Resp: 5089
Ion Ratio Lower Upper
56 100
69 125.2 26.8 40.2#
84 98.4 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 54.995 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN079644.D

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Instrument :

MSVOA_N

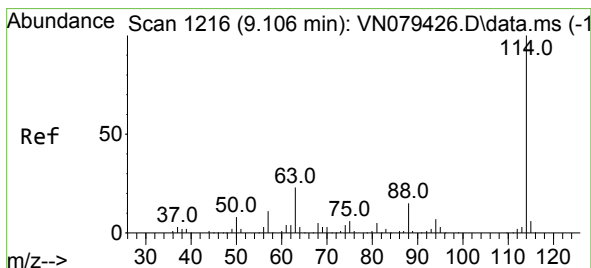
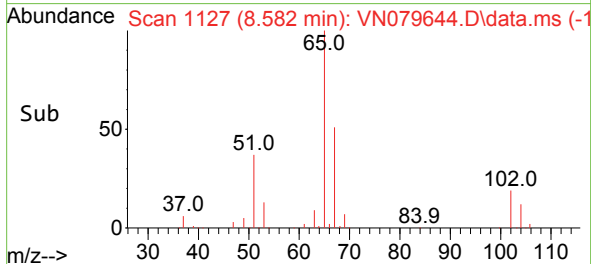
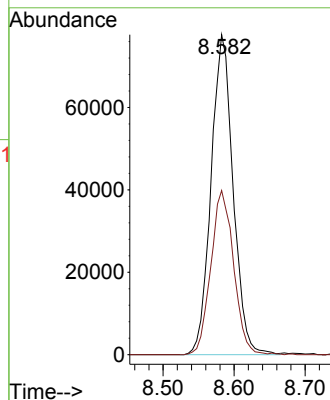
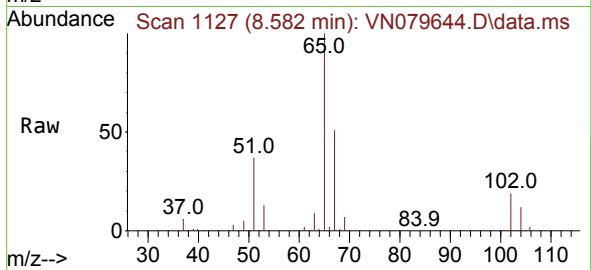
ClientSampleId :

Tgt Ion: 65 Resp: 167362

Ion Ratio Lower Upper

65 100

67 53.0 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: VN079644.D

Acq: 23 Oct 2023 13:23

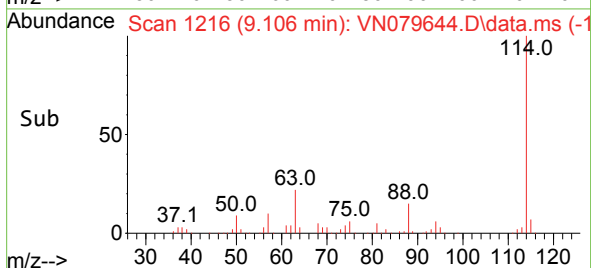
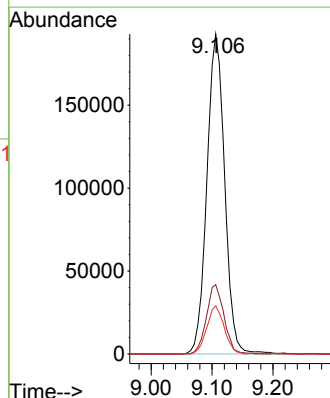
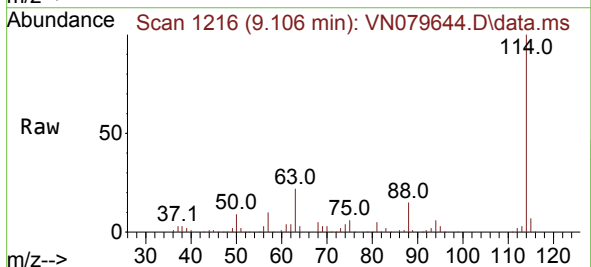
Tgt Ion: 114 Resp: 391354

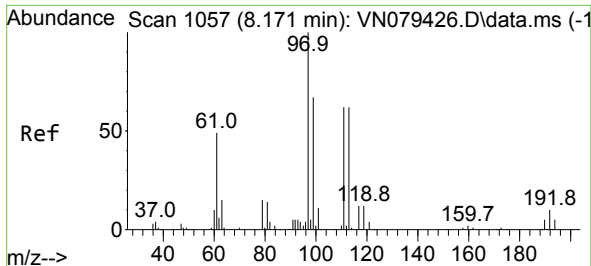
Ion Ratio Lower Upper

114 100

63 21.7 0.0 36.4

88 15.0 0.0 30.6





#35

Dibromofluoromethane

Concen: 50.304 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

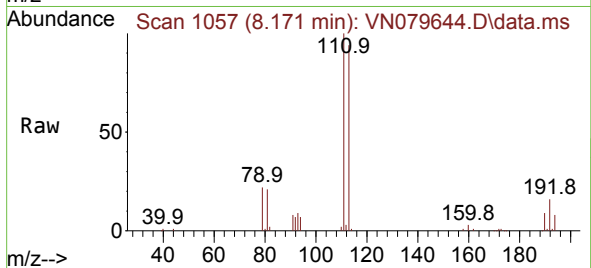
Lab File: VN079644.D

Acq: 23 Oct 2023 13:23

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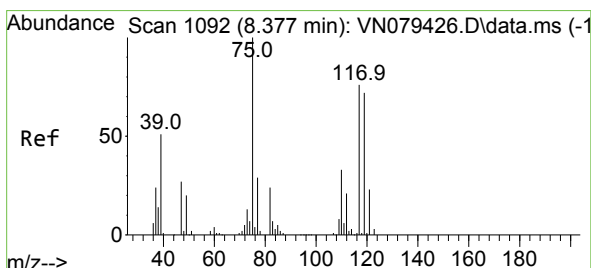
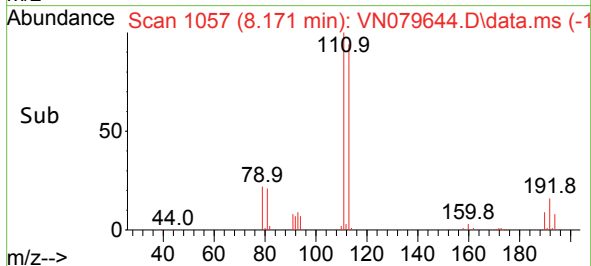
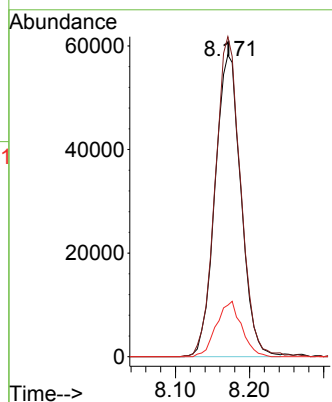
Tgt Ion:113 Resp: 141476

Ion Ratio Lower Upper

113 100

111 104.2 82.6 123.8

192 17.9 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.307 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

Lab File: VN079644.D

Acq: 23 Oct 2023 13:23

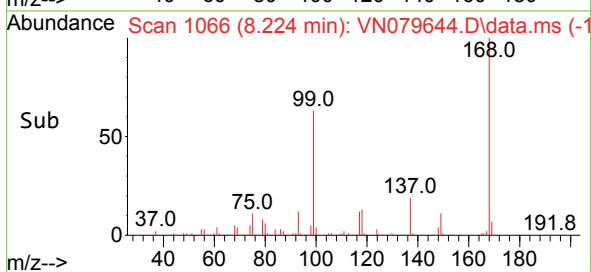
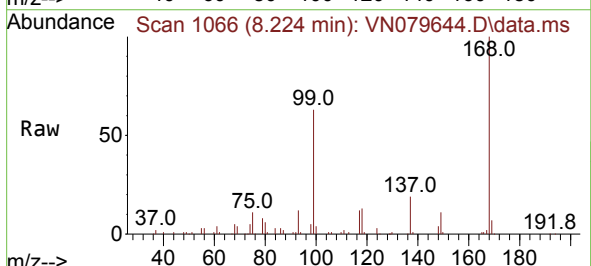
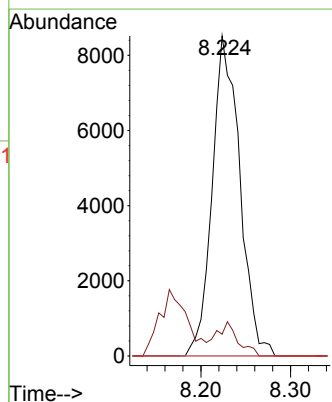
Tgt Ion: 75 Resp: 18180

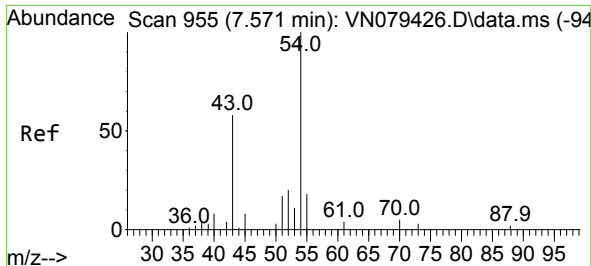
Ion Ratio Lower Upper

75 100

110 8.4 19.1 57.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.131 ug/l

RT: 7.577 min Scan# 91

Delta R.T. 0.006 min

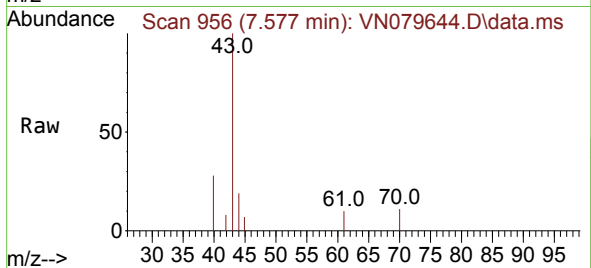
Lab File: VN079644.D

Acq: 23 Oct 2023 13:23

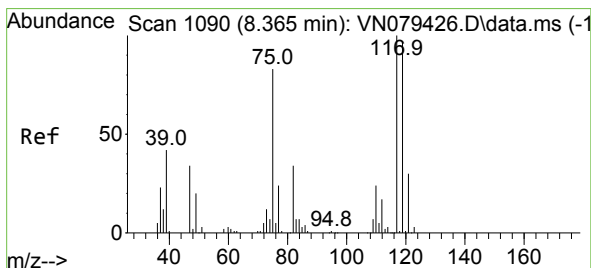
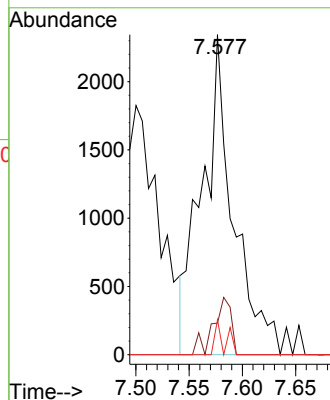
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	4750
Ion	Ratio	Lower	Upper
43	100		
61	10.3	13.2	19.8#
70	3.4	11.3	16.9#



#38

Carbon Tetrachloride

Concen: 5.082 ug/l

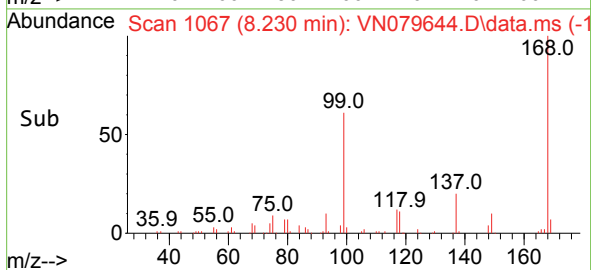
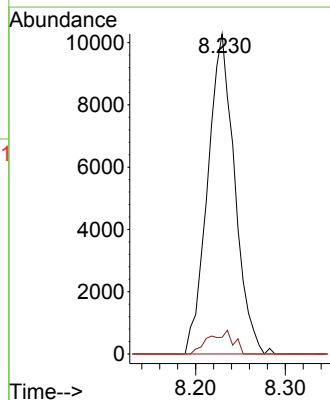
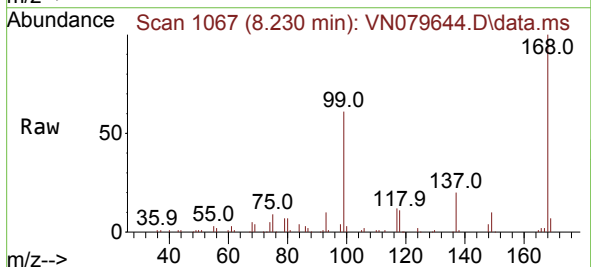
RT: 8.230 min Scan# 1067

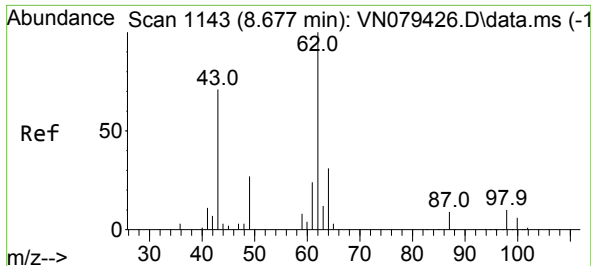
Delta R.T. -0.135 min

Lab File: VN079644.D

Acq: 23 Oct 2023 13:23

Tgt Ion:	117	Resp:	21475
Ion	Ratio	Lower	Upper
117	100		
119	5.2	77.3	115.9#
121	0.0	23.3	34.9#





#42

1,2-Dichloroethane

Concen: 0.286 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.018 min

Lab File: VN079644.D

Acq: 23 Oct 2023 13:23

Instrument :

MSVOA_N

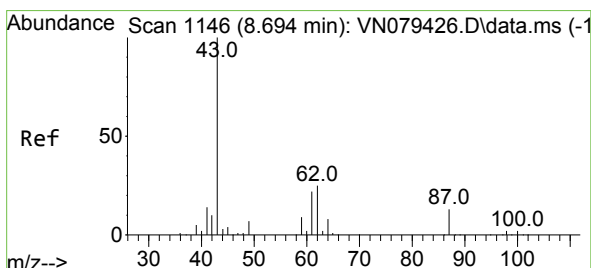
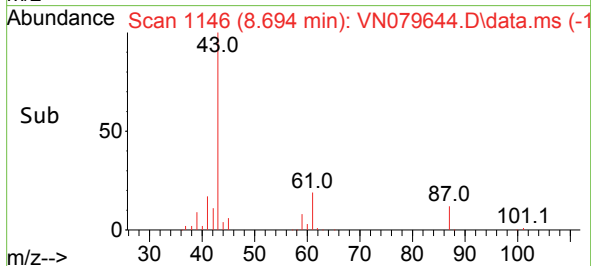
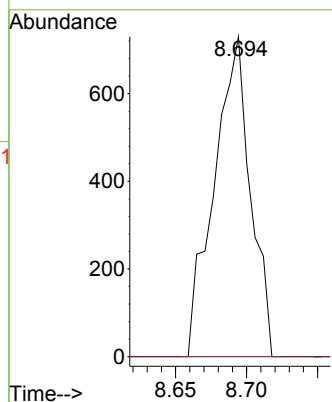
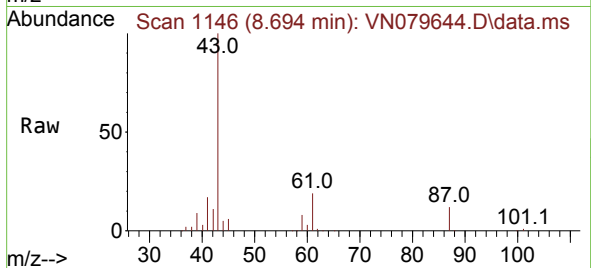
ClientSampleId :

Tgt Ion: 62 Resp: 1302

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 24.810 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VN079644.D

Acq: 23 Oct 2023 13:23

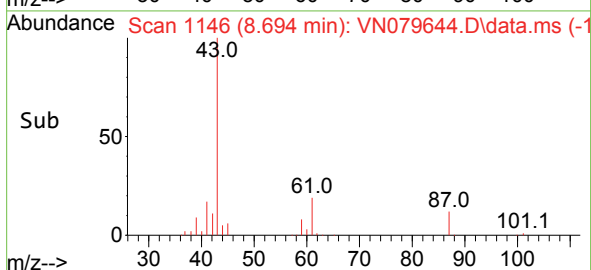
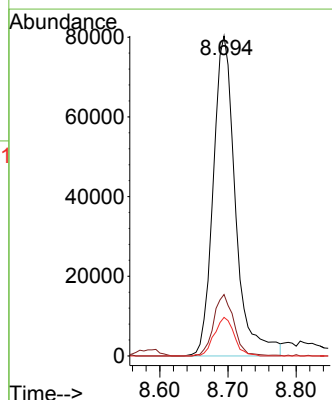
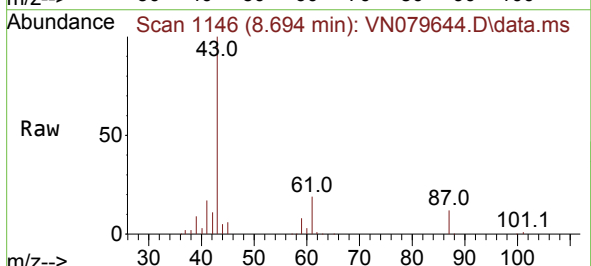
Tgt Ion: 43 Resp: 182564

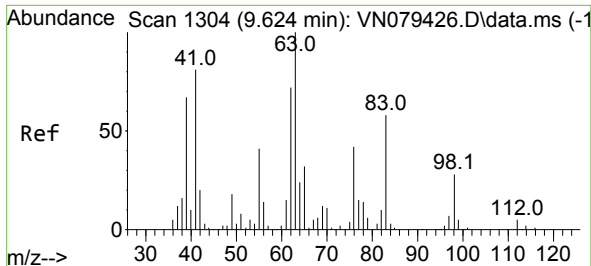
Ion Ratio Lower Upper

43 100

61 17.5 24.7 37.1#

87 10.8 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.709 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN079644.D

Acq: 23 Oct 2023 13:23

Instrument :

MSVOA_N

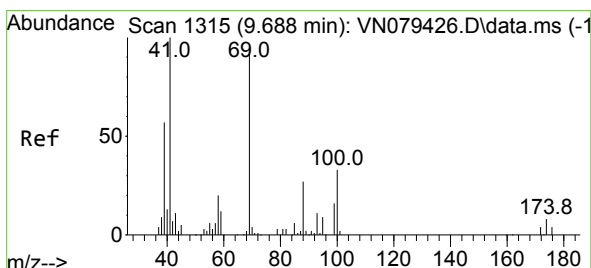
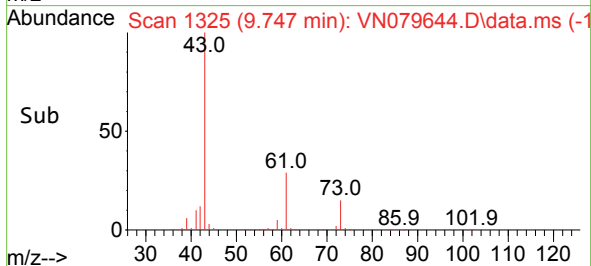
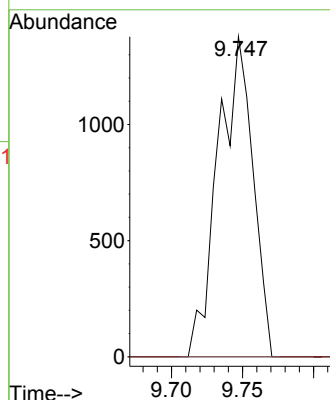
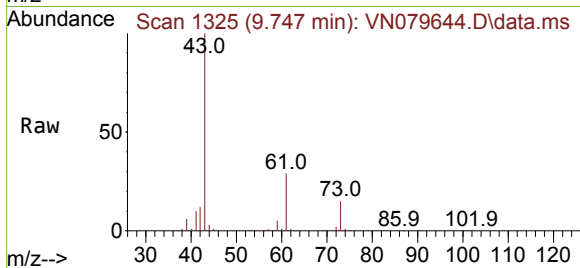
ClientSampleId :

Tgt Ion: 63 Resp: 2343

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 53.258 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.059 min

Lab File: VN079644.D

Acq: 23 Oct 2023 13:23

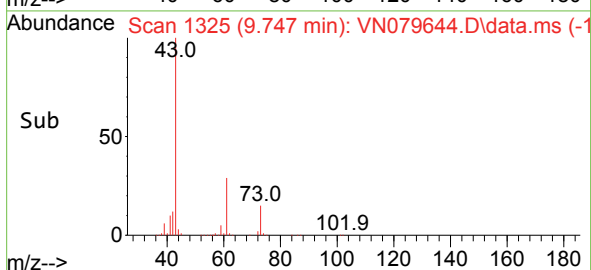
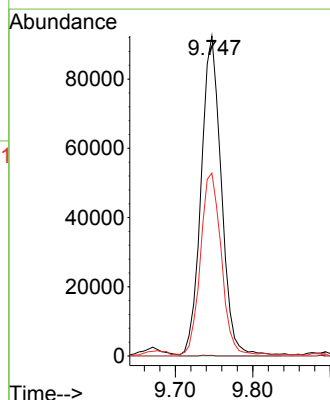
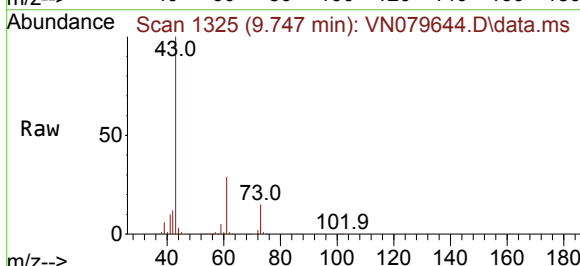
Tgt Ion: 41 Resp: 167933

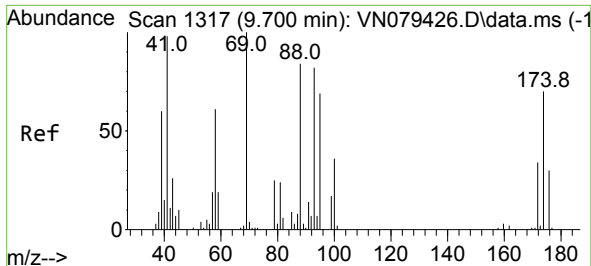
Ion Ratio Lower Upper

41 100

69 0.1 90.4 135.6#

39 57.6 54.6 81.8





#49

1,4-Dioxane

Concen: 1.067 ug/l

RT: 9.724 min Scan# 1

Delta R.T. 0.024 min

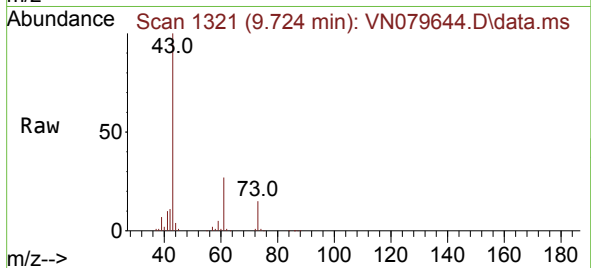
Lab File: VN079644.D

Acq: 23 Oct 2023 13:23

Instrument :

MSVOA_N

ClientSampleId :



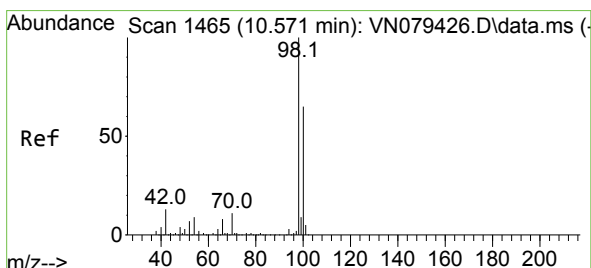
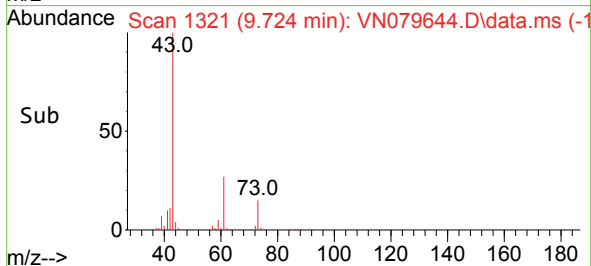
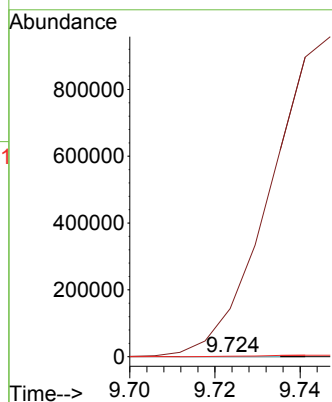
Tgt Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 0.0 47.0 70.4#



#50

Toluene-d8

Concen: 52.739 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN079644.D

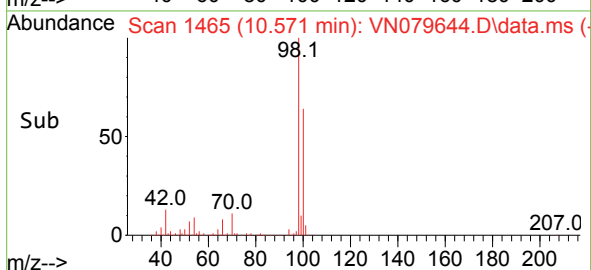
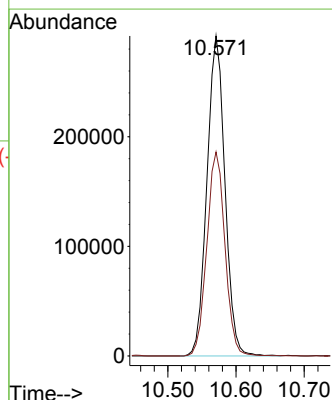
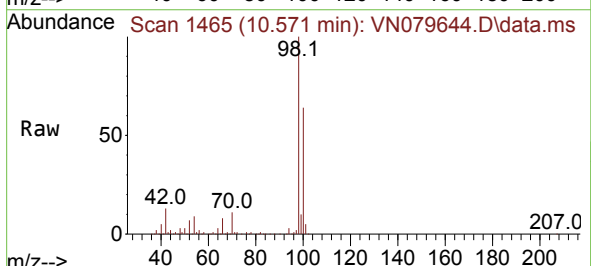
Acq: 23 Oct 2023 13:23

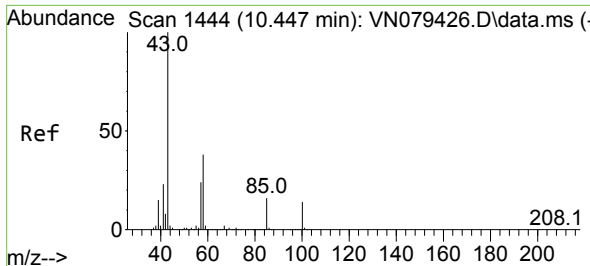
Tgt Ion: 98 Resp: 536677

Ion Ratio Lower Upper

98 100

100 64.3 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 1.591 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. 0.006 min

Lab File: VN079644.D

Acq: 23 Oct 2023 13:23

Instrument :

MSVOA_N

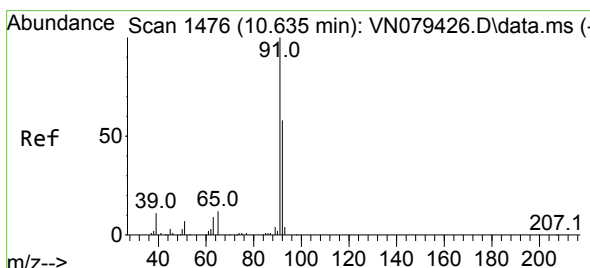
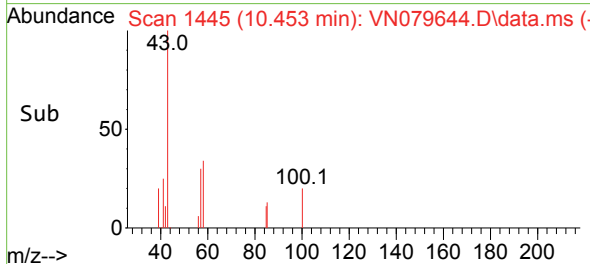
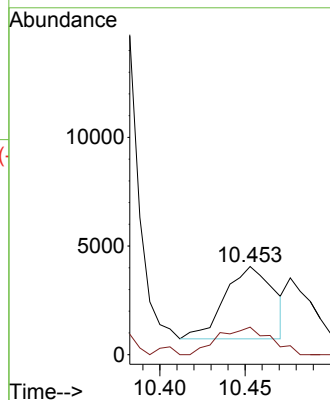
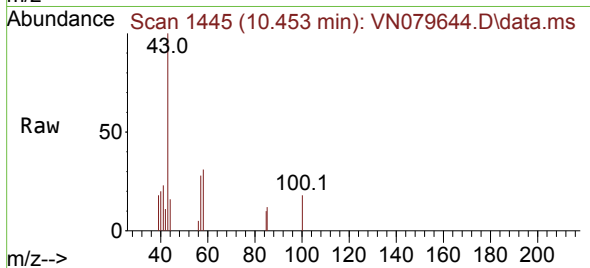
ClientSampleId :

Tgt Ion: 43 Resp: 6608

Ion Ratio Lower Upper

43 100

58 40.7 36.6 54.8



#52

Toluene

Concen: 0.223 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. -0.000 min

Lab File: VN079644.D

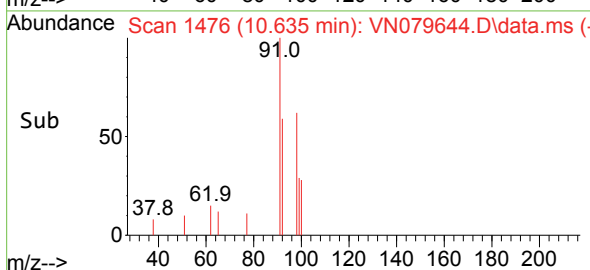
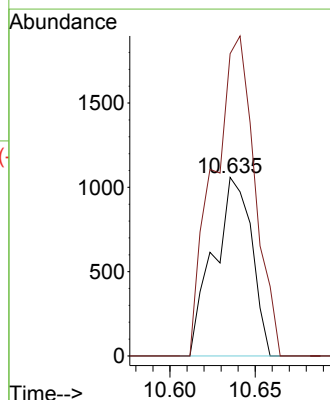
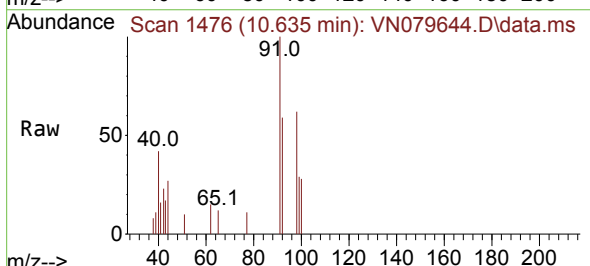
Acq: 23 Oct 2023 13:23

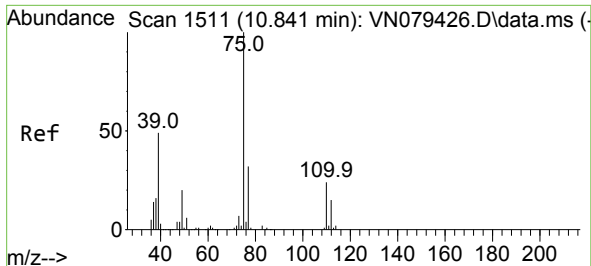
Tgt Ion: 92 Resp: 1642

Ion Ratio Lower Upper

92 100

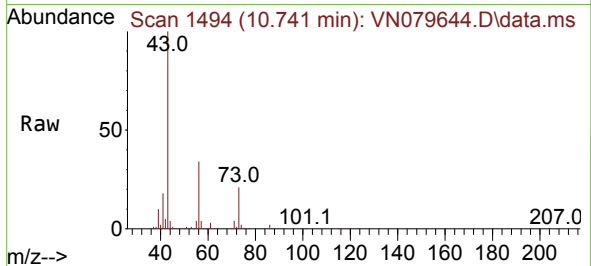
91 194.9 137.4 206.0



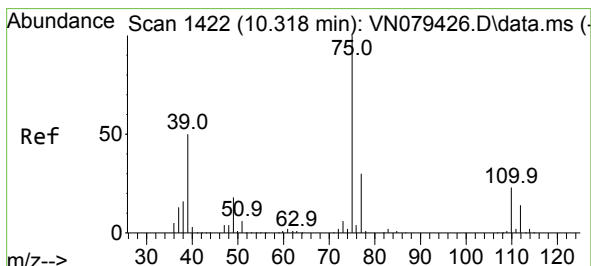
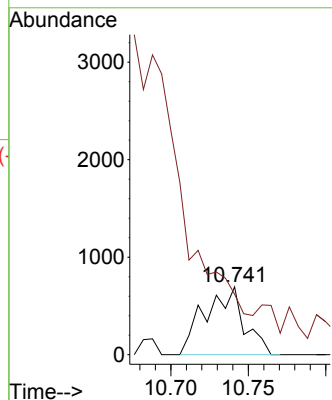
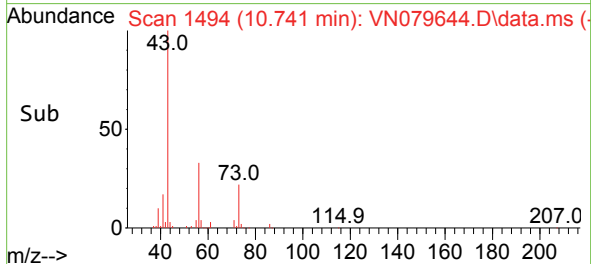


#53
 t-1,3-Dichloropropene
 Concen: 0.276 ug/l
 RT: 10.741 min Scan# 1494
 Delta R.T. -0.100 min
 Lab File: VN079644.D
 Acq: 23 Oct 2023 13:23

Instrument :
 MSVOA_N
 ClientSampleId :

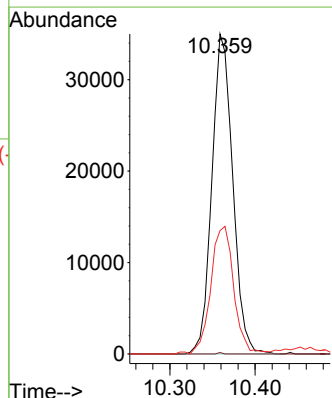
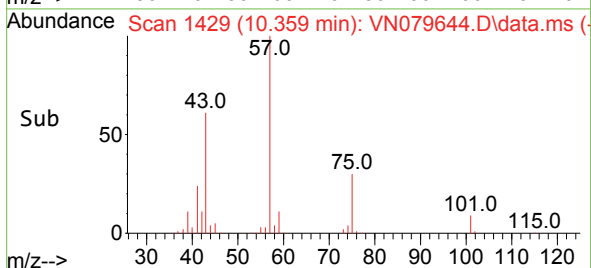
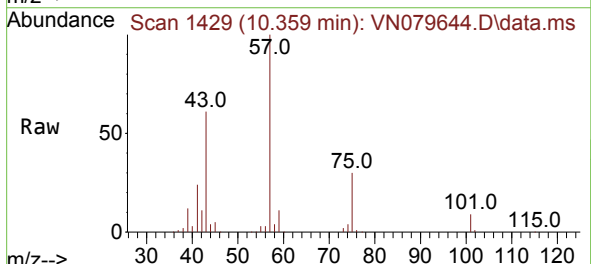


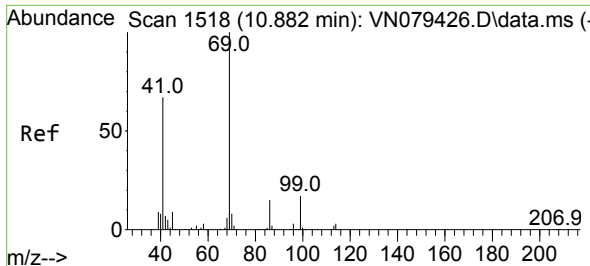
Tgt Ion: 75 Resp: 1222
 Ion Ratio Lower Upper
 75 100
 77 57.5 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 12.245 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.041 min
 Lab File: VN079644.D
 Acq: 23 Oct 2023 13:23

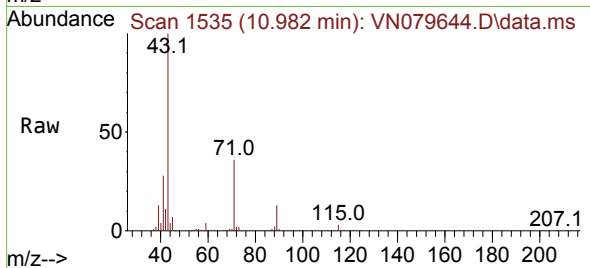
Tgt Ion: 75 Resp: 59439
 Ion Ratio Lower Upper
 75 100
 77 0.4 26.1 39.1#
 39 38.0 31.6 47.4



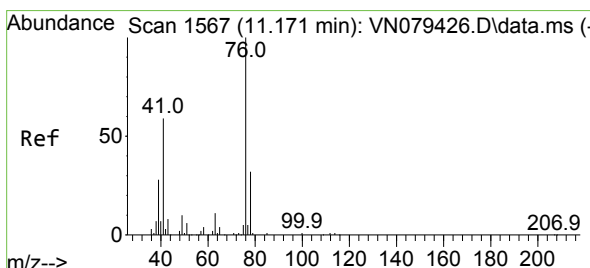
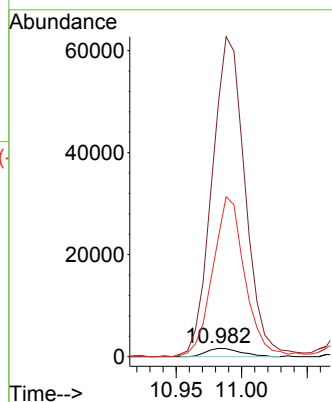
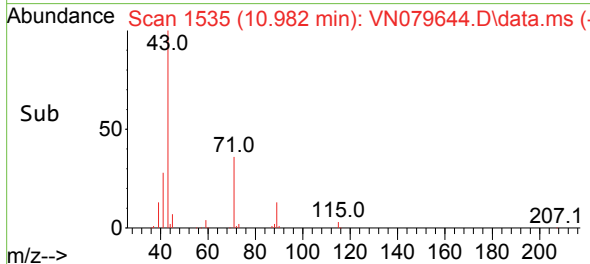


#56
Ethyl methacrylate
Concen: 0.734 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.100 min
Lab File: VN079644.D
Acq: 23 Oct 2023 13:23

Instrument :
MSVOA_N
ClientSampleId :

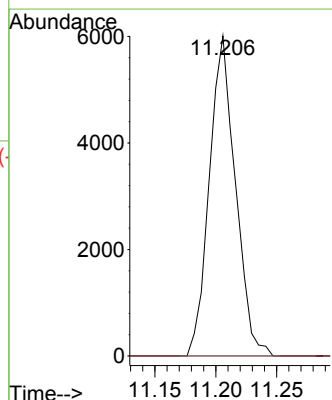
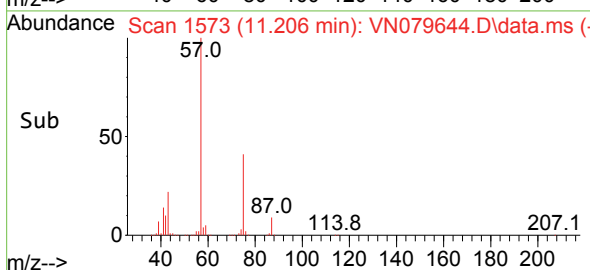
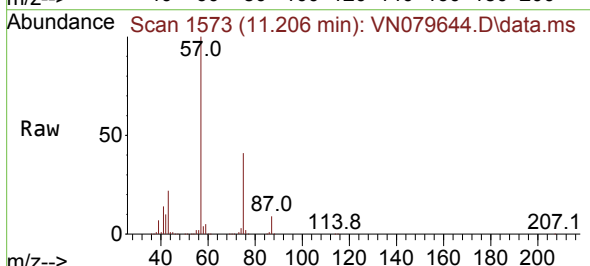


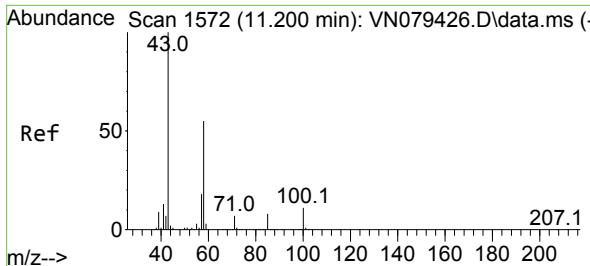
Tgt Ion: 69 Resp: 2986
Ion Ratio Lower Upper
69 100
41 3703.8 39.6 59.4#
39 1799.7 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.749 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN079644.D
Acq: 23 Oct 2023 13:23

Tgt Ion: 76 Resp: 8947
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

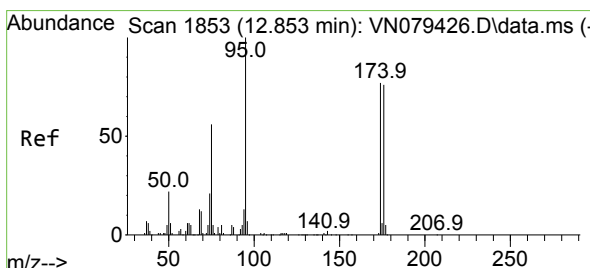
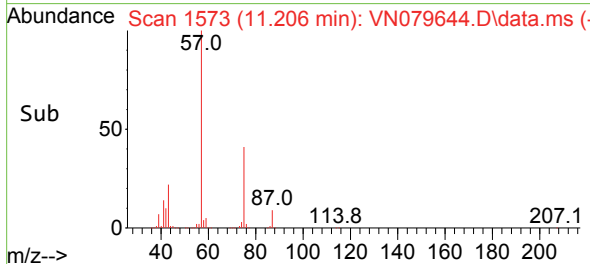
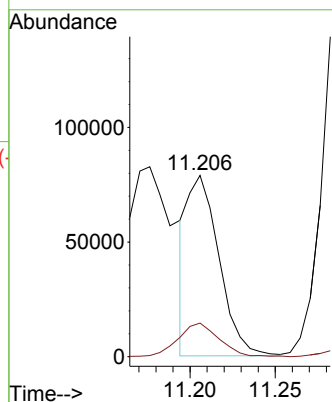
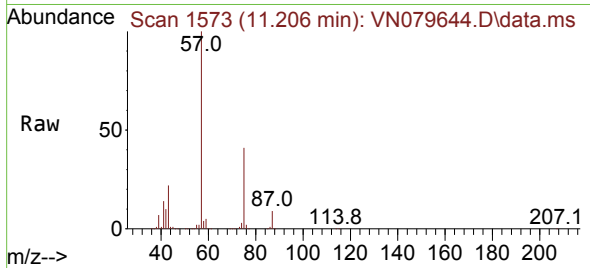




#59
2-Hexanone
Concen: 33.904 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN079644.D
Acq: 23 Oct 2023 13:23

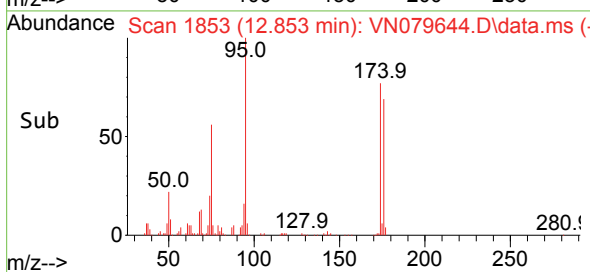
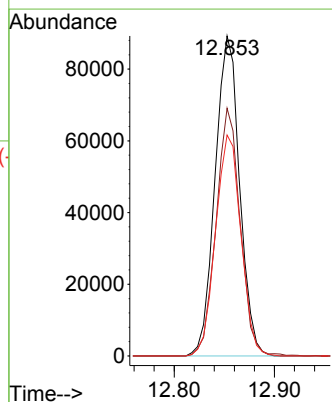
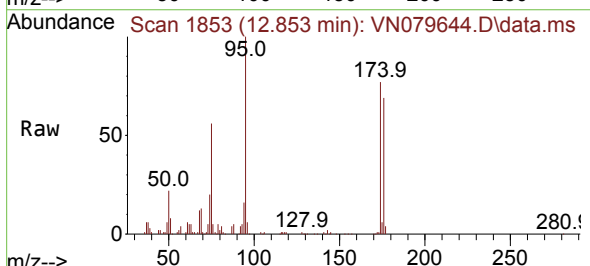
Instrument :
MSVOA_N
ClientSampleId :

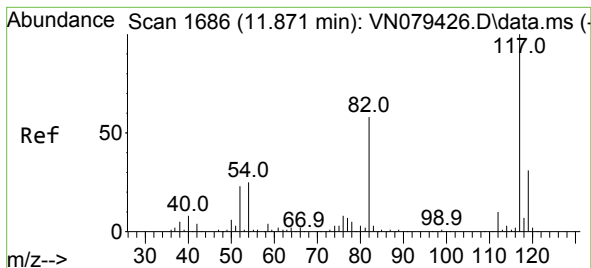
Tgt Ion: 43 Resp: 101625
Ion Ratio Lower Upper
43 100
58 24.2 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 46.387 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079644.D
Acq: 23 Oct 2023 13:23

Tgt Ion: 95 Resp: 151487
Ion Ratio Lower Upper
95 100
174 76.1 0.0 143.8
176 71.5 0.0 135.8

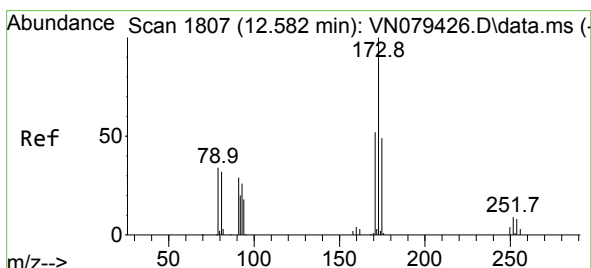
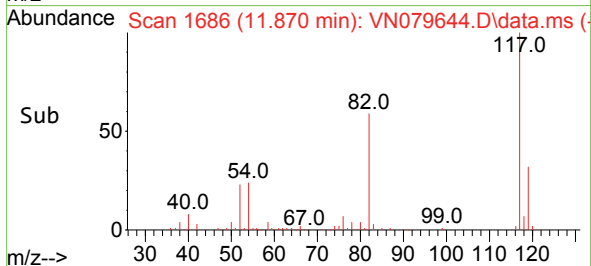
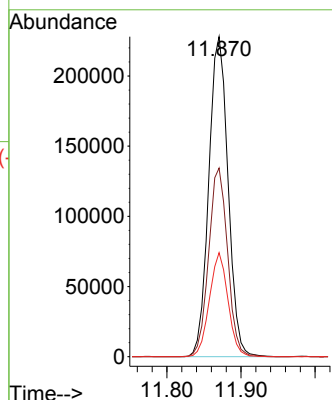
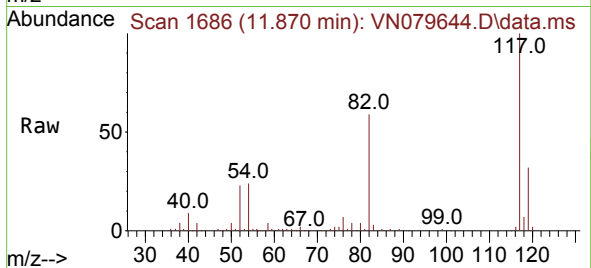




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079644.D
Acq: 23 Oct 2023 13:23

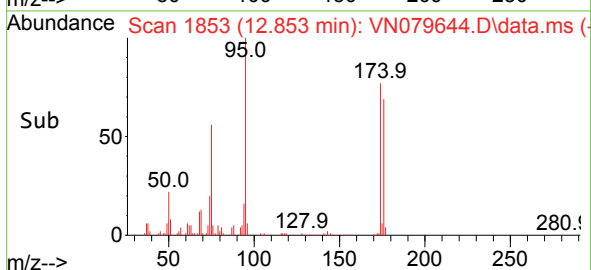
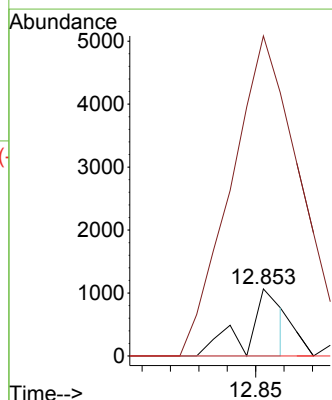
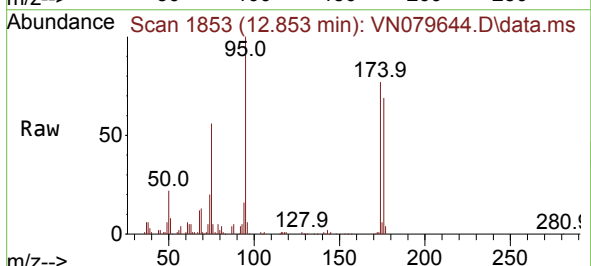
Instrument :
MSVOA_N
ClientSampleId :

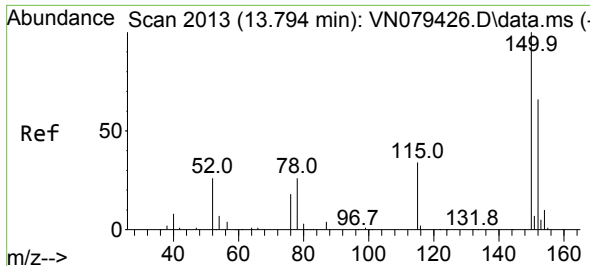
Tgt Ion:117 Resp: 411886
Ion Ratio Lower Upper
117 100
82 58.9 44.0 66.0
119 32.5 25.6 38.4



#71
Bromoform
Concen: 0.371 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN079644.D
Acq: 23 Oct 2023 13:23

Tgt Ion:173 Resp: 913
Ion Ratio Lower Upper
173 100
175 703.1 24.3 73.0#
254 0.0 0.0 0.0

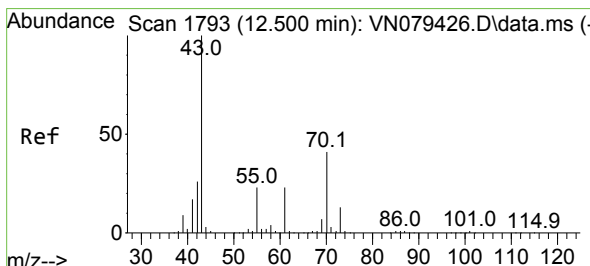
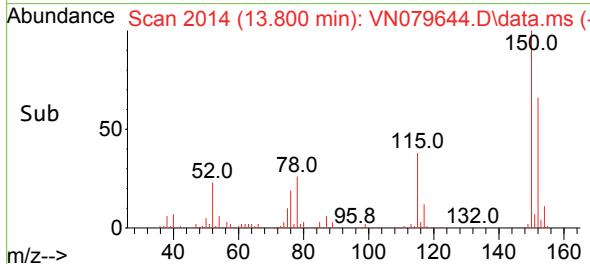
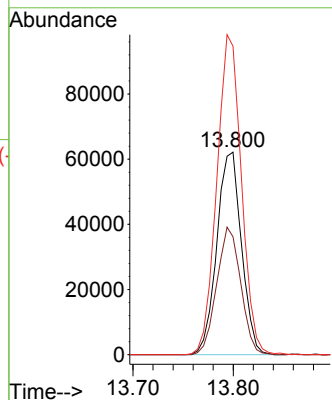
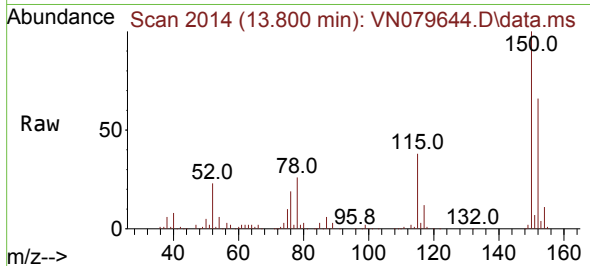




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN079644.D
Acq: 23 Oct 2023 13:23

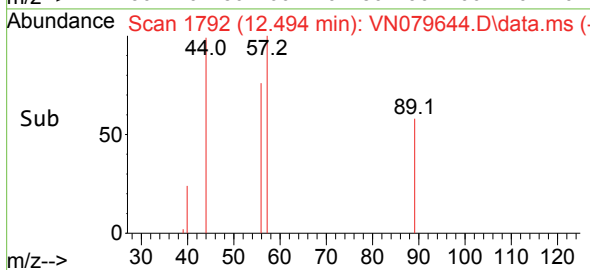
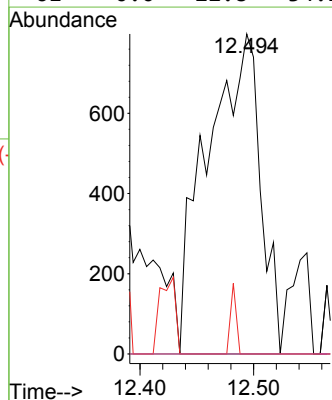
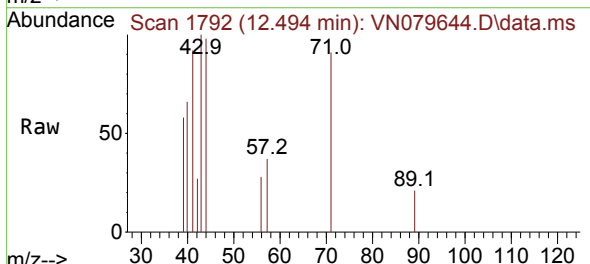
Instrument :
MSVOA_N
ClientSampleId :

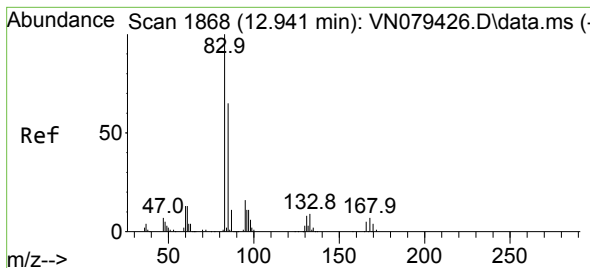
Tgt Ion:152 Resp: 106174
Ion Ratio Lower Upper
152 100
115 61.2 32.3 96.8
150 157.5 0.0 355.8



#74
N-ethyl acetate
Concen: 0.640 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.006 min
Lab File: VN079644.D
Acq: 23 Oct 2023 13:23

Tgt Ion: 43 Resp: 2593
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 2.4 21.4 32.0#
61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.870 min Scan# 1856

Delta R.T. -0.071 min

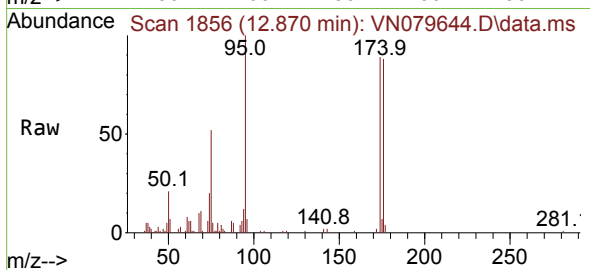
Lab File: VN079644.D

Acq: 23 Oct 2023 13:23

Instrument :

MSVOA_N

ClientSampleId :



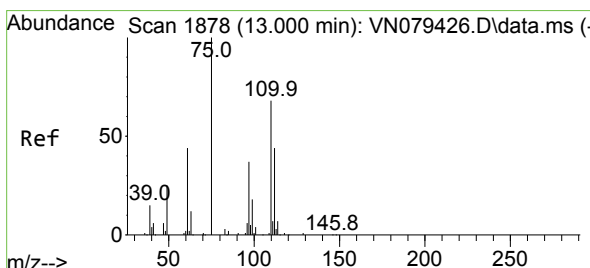
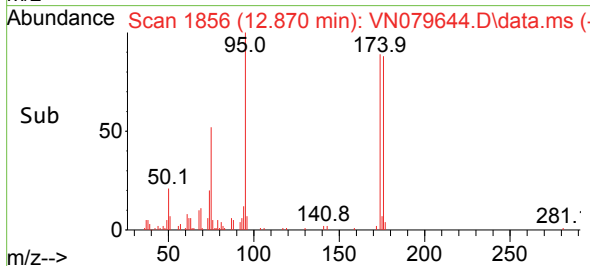
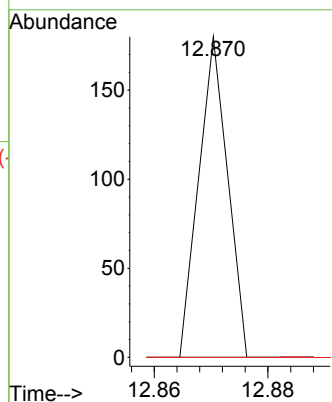
Tgt Ion: 83 Resp: 63

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 26.717 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079644.D

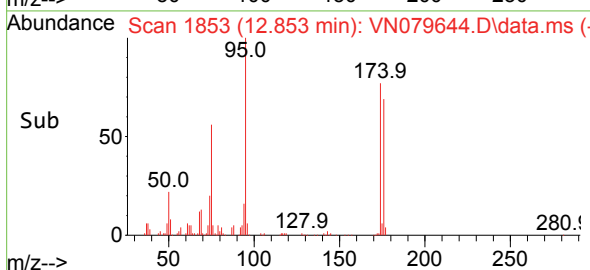
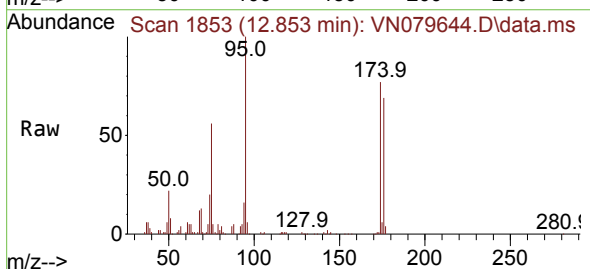
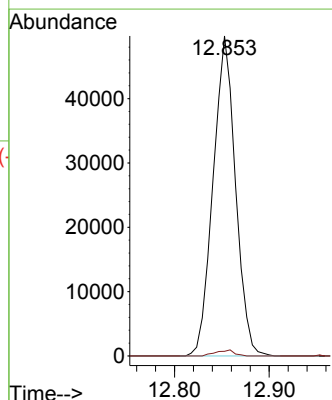
Acq: 23 Oct 2023 13:23

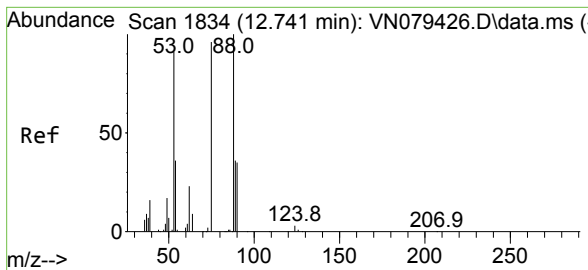
Tgt Ion: 75 Resp: 81789

Ion Ratio Lower Upper

75 100

77 1.5 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.521 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN079644.D
 Acq: 23 Oct 2023 13:23

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion: 75 Resp: 81789
 Ion Ratio Lower Upper
 75 100
 53 0.2 67.4 101.2#
 89 0.0 38.8 58.2#

