

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102323\
 Data File : VN079643.D
 Acq On : 23 Oct 2023 12:59
 Operator : JC\MD
 Sample : PB156545ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 23 23:49:08 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)

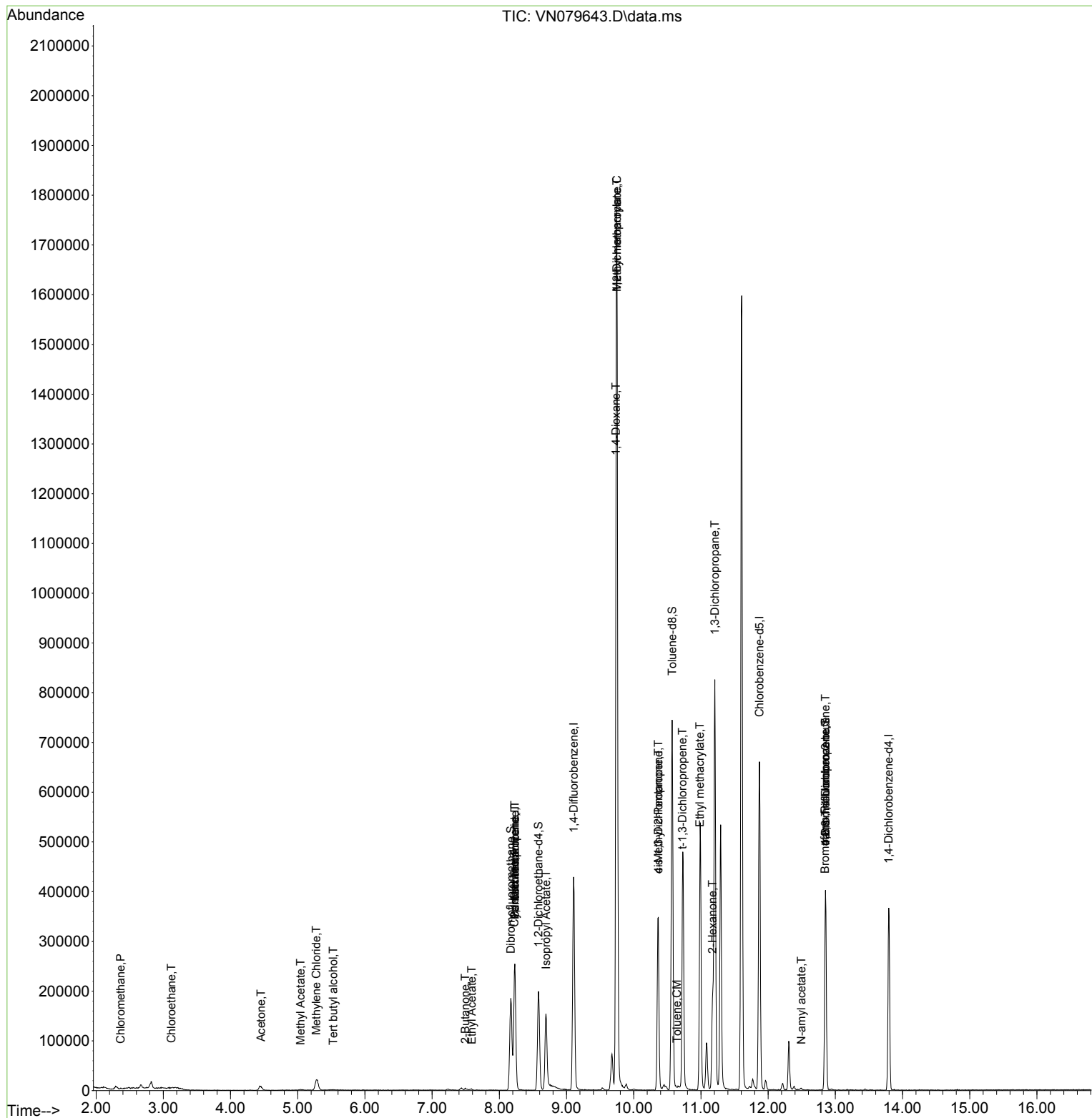
Internal Standards						
1) Pentafluorobenzene	8.230	168	173628	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	360900	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	371167	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	93433	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	157270	55.864	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.720%			
35) Dibromofluoromethane	8.171	113	133697	51.550	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.100%			
50) Toluene-d8	10.571	98	491726	52.399	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.800%			
62) 4-Bromofluorobenzene	12.853	95	136387	45.287	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 90.580%			
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	818	0.263	ug/l	97
6) Chloroethane	3.118	64	839	0.345	ug/l #	43
11) Tert butyl alcohol	5.530	59	762	1.798	ug/l #	72
16) Acetone	4.454	43	17696	15.848	ug/l #	76
18) Methyl Acetate	5.042	43	3031	0.555	ug/l #	61
20) Methylene Chloride	5.277	84	17337	6.567	ug/l #	80
25) 2-Butanone	7.494	43	5541	3.343	ug/l #	82
31) Cyclohexane	8.224	56	4956	1.241	ug/l #	32
36) 1,1-Dichloropropene	8.230	75	16069	4.128	ug/l #	48
37) Ethyl Acetate	7.589	43	4390	1.133	ug/l #	77
38) Carbon Tetrachloride	8.230	117	19098	4.901	ug/l #	17
43) Isopropyl Acetate	8.694	43	174861	25.769	ug/l #	79
45) 1,2-Dichloropropane	9.747	63	2253	0.740	ug/l #	45
48) Methyl methacrylate	9.747	41	170804	58.740	ug/l #	29
49) 1,4-Dioxane	9.736	88	100	1.867	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	130191	33.987	ug/l #	42
52) Toluene	10.641	92	1781	0.262	ug/l	97
53) t-1,3-Dichloropropene	10.724	75	1303	0.319	ug/l #	9
54) cis-1,3-Dichloropropene	10.365	75	57325	12.806	ug/l #	72
56) Ethyl methacrylate	10.983	69	3595	0.958	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	8824	1.871	ug/l #	42
59) 2-Hexanone	11.171	43	144369	52.229	ug/l #	19
71) Bromoform	12.847	173	1378	0.622	ug/l #	28
74) N-amyl acetate	12.494	43	1870	0.525	ug/l #	42
75) 1,1,2,2-Tetrachloroethane	12.847	83	58	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.853	75	74633	27.704	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	74633	80.385	ug/l #	15

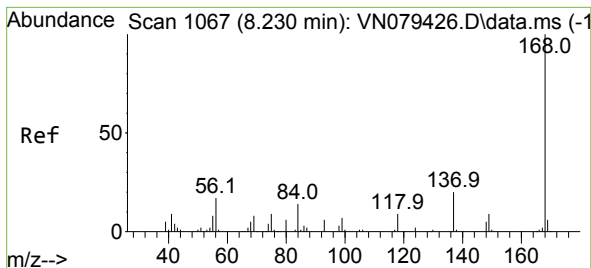
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 10

Delta R.T. -0.000 min

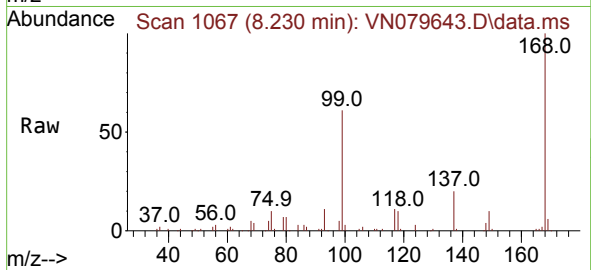
Lab File: VN079643.D

Acq: 23 Oct 2023 12:59

Instrument :

MSVOA_N

ClientSampleId :

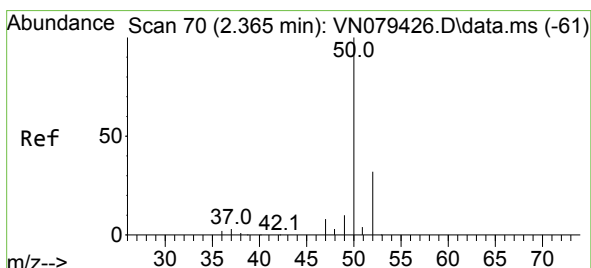
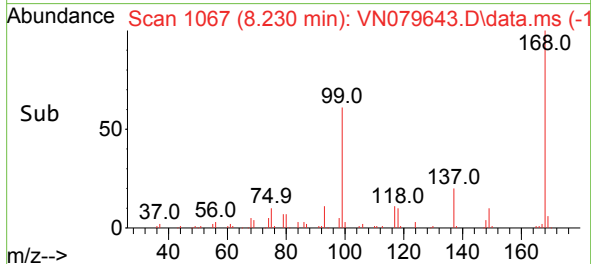
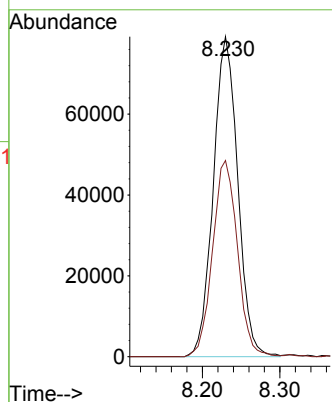


Tgt Ion:168 Resp: 173628

Ion Ratio Lower Upper

168 100

99 61.3 53.0 79.6



#3

Chloromethane

Concen: 0.263 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.000 min

Lab File: VN079643.D

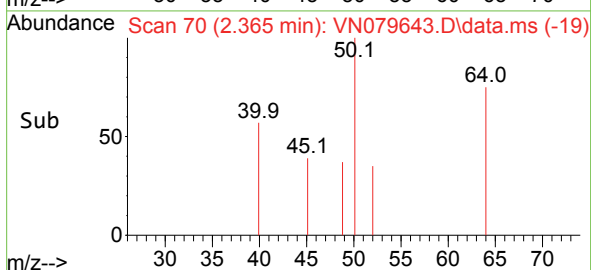
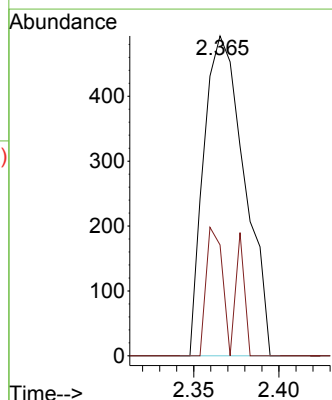
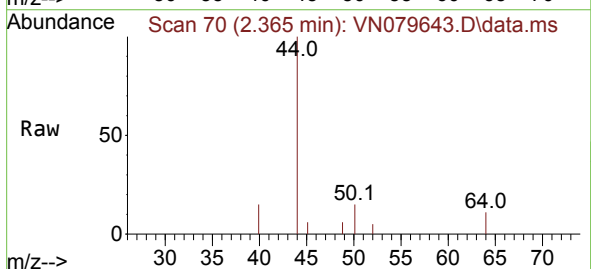
Acq: 23 Oct 2023 12:59

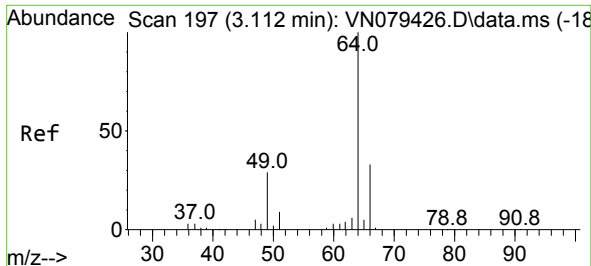
Tgt Ion: 50 Resp: 818

Ion Ratio Lower Upper

50 100

52 34.7 26.5 39.7

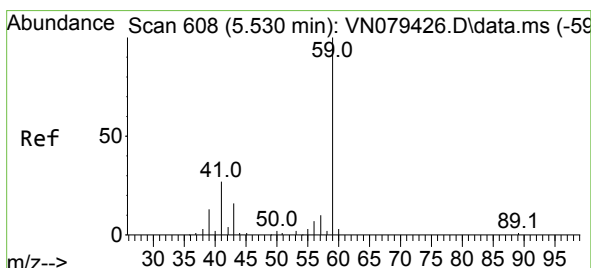
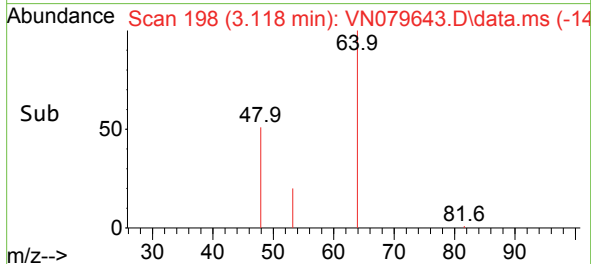
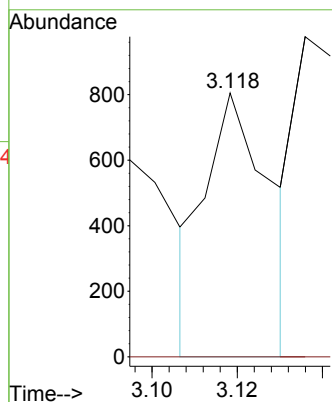
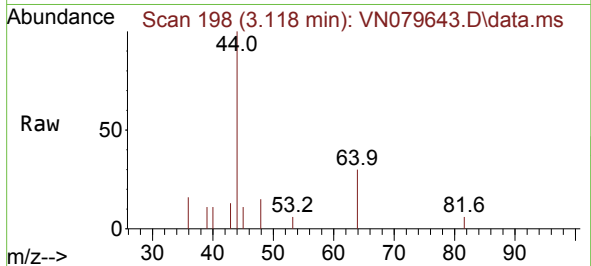




#6
Chloroethane
Concen: 0.345 ug/l
RT: 3.118 min Scan# 197
Delta R.T. 0.006 min
Lab File: VN079643.D
Acq: 23 Oct 2023 12:59

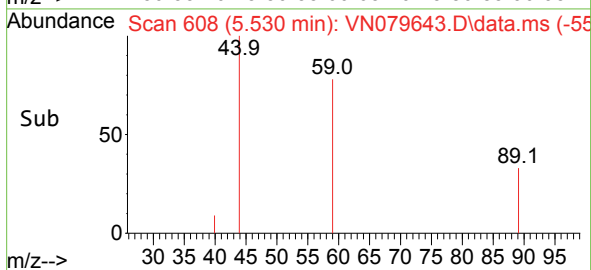
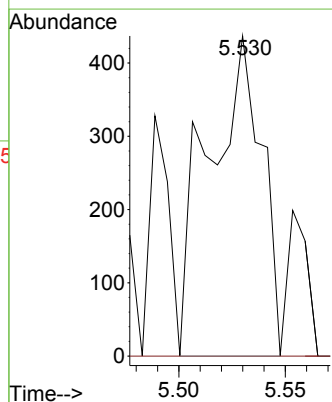
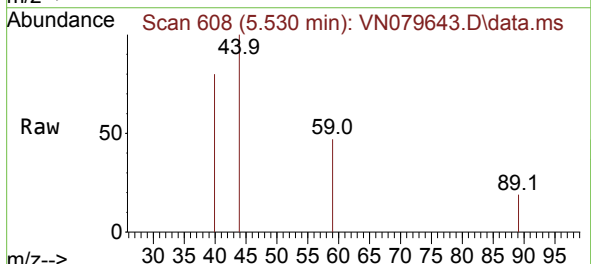
Instrument :
MSVOA_N
ClientSampleId :

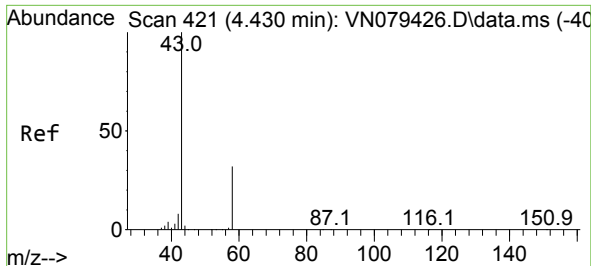
Tgt Ion: 64 Resp: 839
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 1.798 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.000 min
Lab File: VN079643.D
Acq: 23 Oct 2023 12:59

Tgt Ion: 59 Resp: 762
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

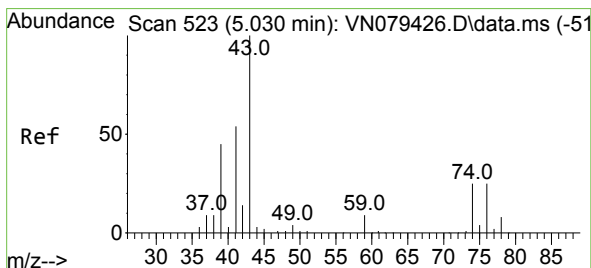
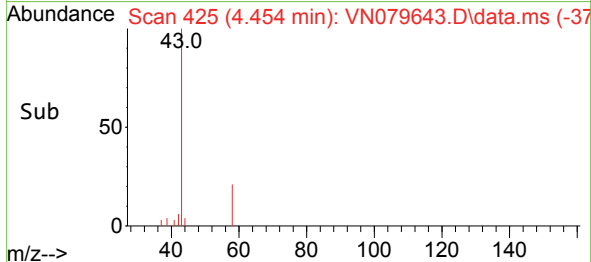
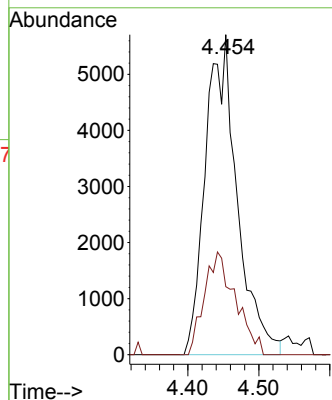
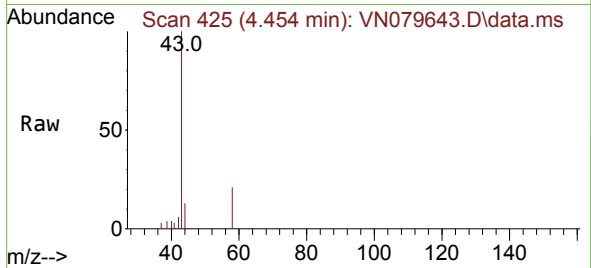




#16
Acetone
Concen: 15.848 ug/l
RT: 4.454 min Scan# 41
Delta R.T. 0.024 min
Lab File: VN079643.D
Acq: 23 Oct 2023 12:59

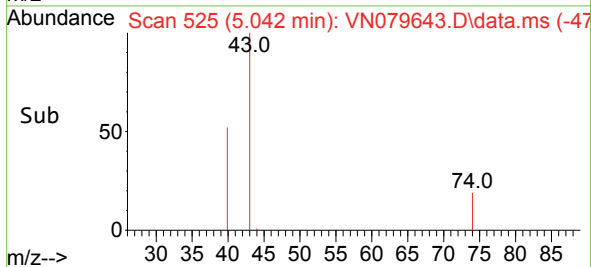
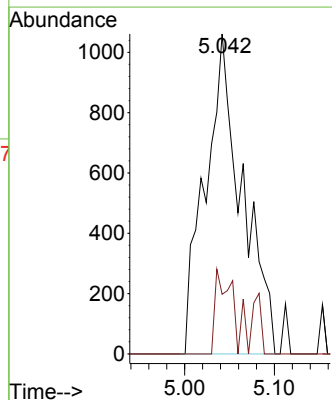
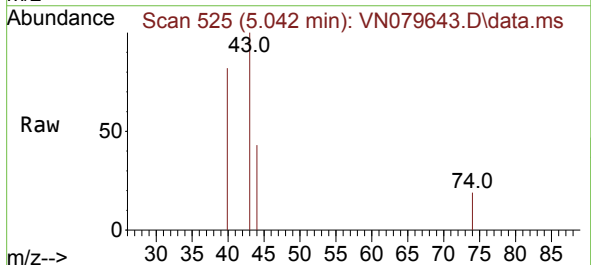
Instrument :
MSVOA_N
ClientSampleId :

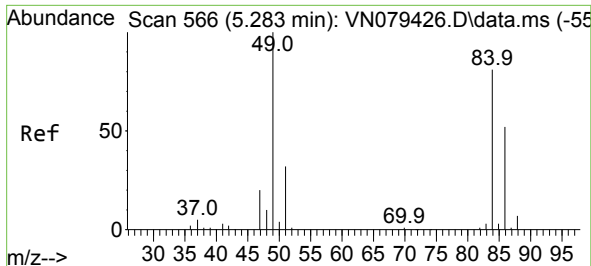
Tgt Ion: 43 Resp: 17696
Ion Ratio Lower Upper
43 100
58 21.2 28.0 42.0#



#18
Methyl Acetate
Concen: 0.555 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.012 min
Lab File: VN079643.D
Acq: 23 Oct 2023 12:59

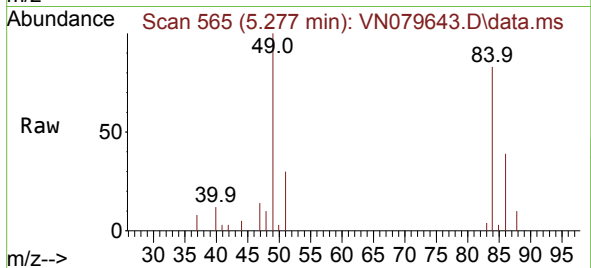
Tgt Ion: 43 Resp: 3031
Ion Ratio Lower Upper
43 100
74 10.9 26.2 39.4#



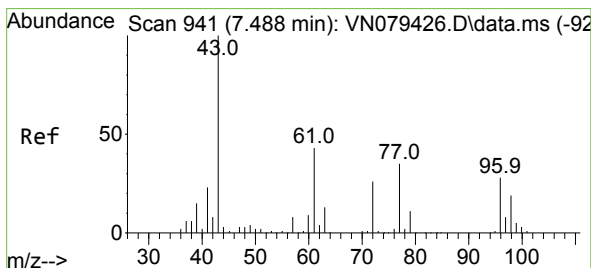
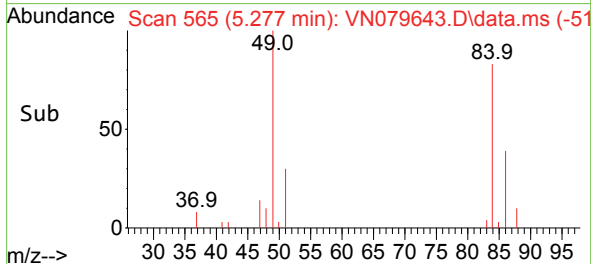
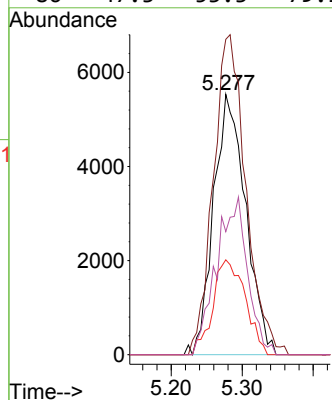


#20
Methylene Chloride
Concen: 6.567 ug/l
RT: 5.277 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN079643.D
Acq: 23 Oct 2023 12:59

Instrument :
MSVOA_N
ClientSampleId :

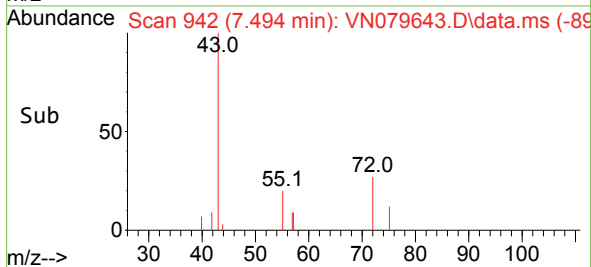
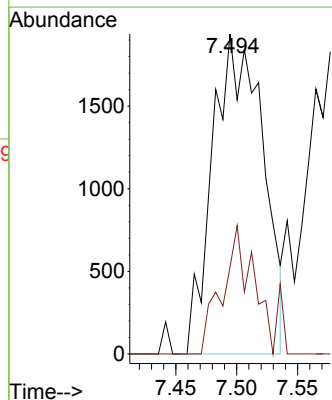
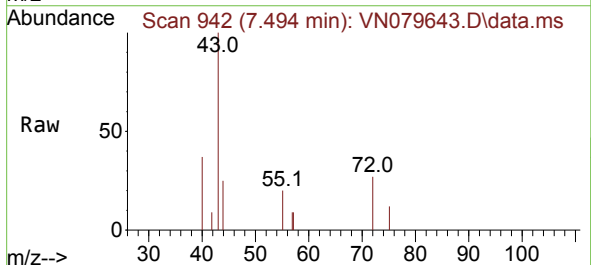


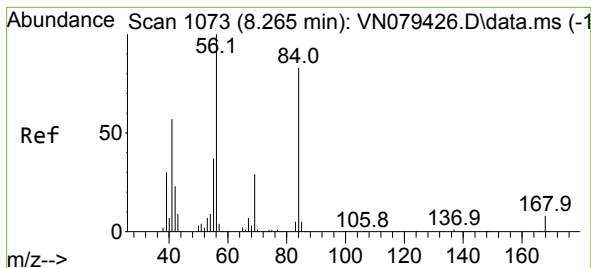
Tgt Ion:	84	Resp:	17337
Ion	Ratio	Lower	Upper
84	100		
49	121.1	79.7	119.5#
51	36.5	25.2	37.8
86	47.3	53.3	79.9#



#25
2-Butanone
Concen: 3.343 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN079643.D
Acq: 23 Oct 2023 12:59

Tgt Ion:	43	Resp:	5541
Ion	Ratio	Lower	Upper
43	100		
72	27.1	30.2	45.2#





#31

Cyclohexane

Concen: 1.241 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.041 min

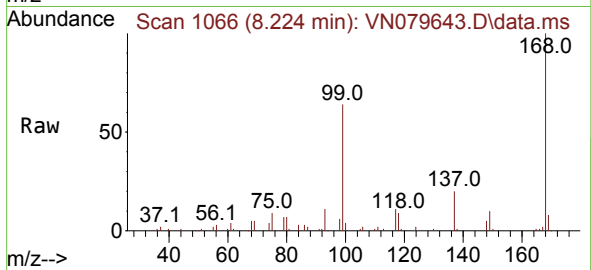
Lab File: VN079643.D

Acq: 23 Oct 2023 12:59

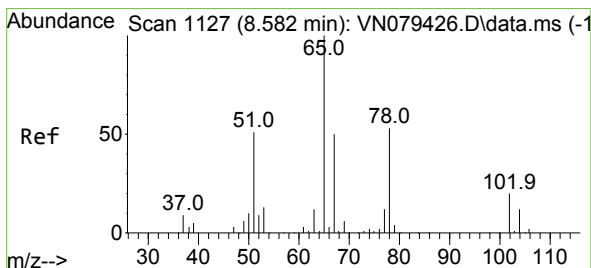
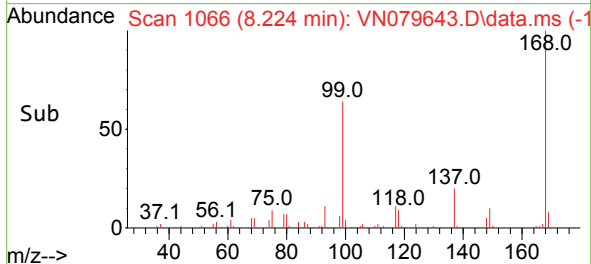
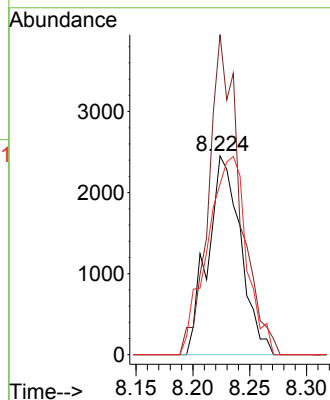
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 56	Resp: 4956
Ion Ratio	Lower Upper
56	100
69	161.1 26.8 40.2#
84	85.8 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 55.864 ug/l

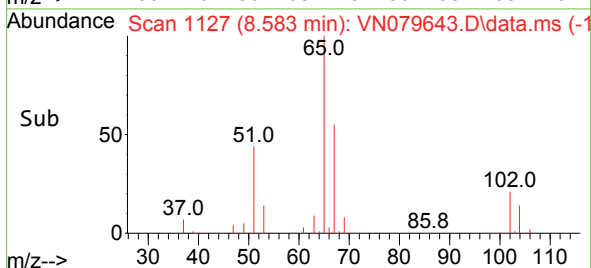
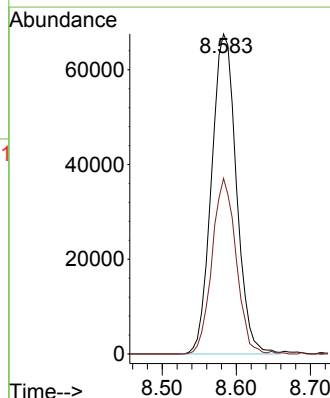
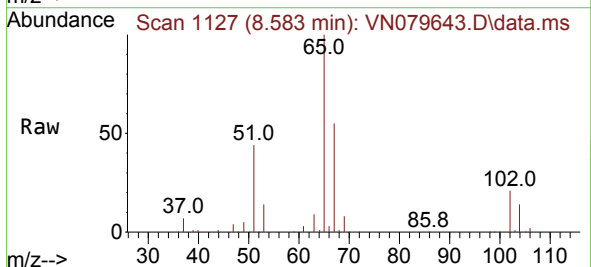
RT: 8.583 min Scan# 1127

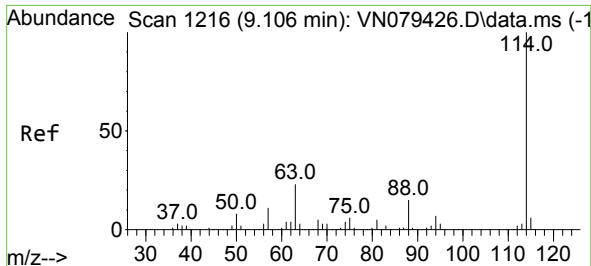
Delta R.T. 0.000 min

Lab File: VN079643.D

Acq: 23 Oct 2023 12:59

Tgt Ion: 65	Resp: 157270
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# 1

Delta R.T. 0.000 min

Lab File: VN079643.D

Acq: 23 Oct 2023 12:59

Instrument :

MSVOA_N

ClientSampleId :

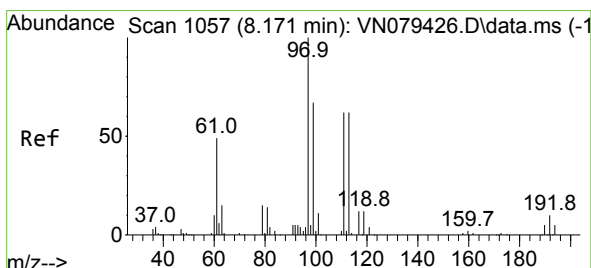
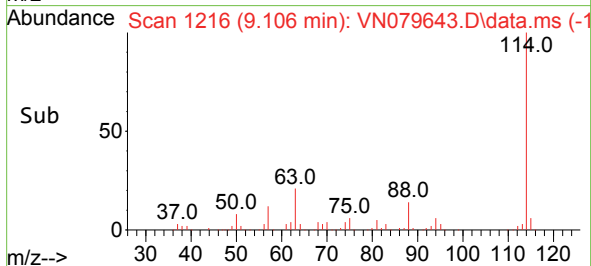
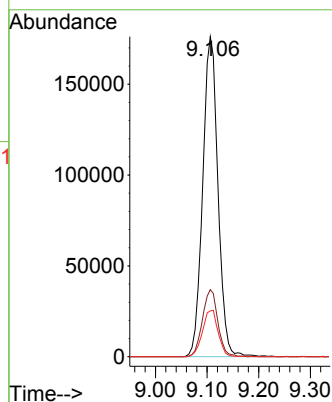
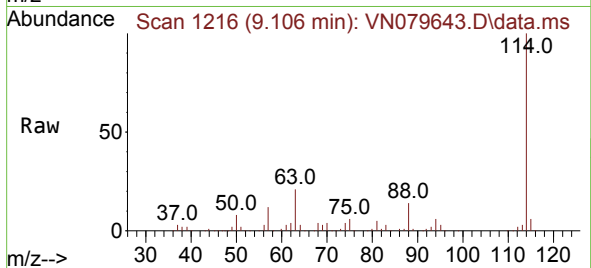
Tgt Ion:114 Resp: 360900

Ion Ratio Lower Upper

114 100

63 20.9 0.0 36.4

88 14.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.550 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN079643.D

Acq: 23 Oct 2023 12:59

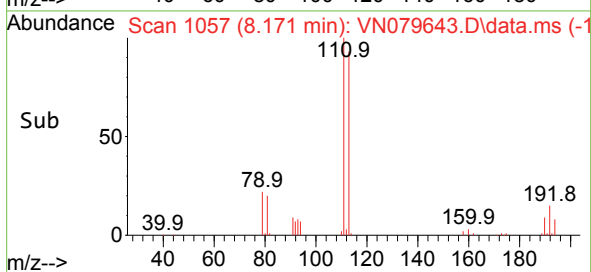
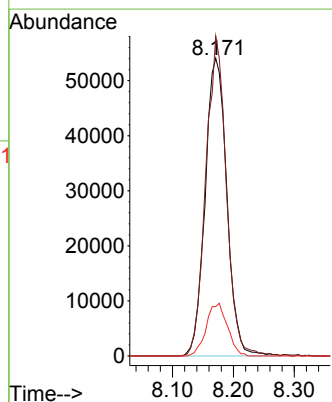
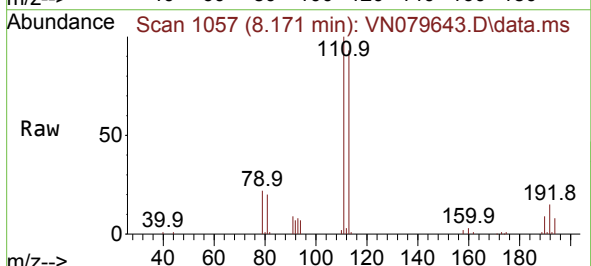
Tgt Ion:113 Resp: 133697

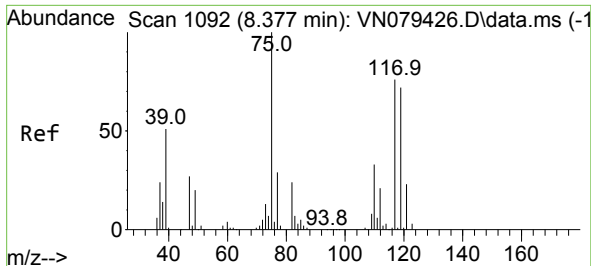
Ion Ratio Lower Upper

113 100

111 101.7 82.6 123.8

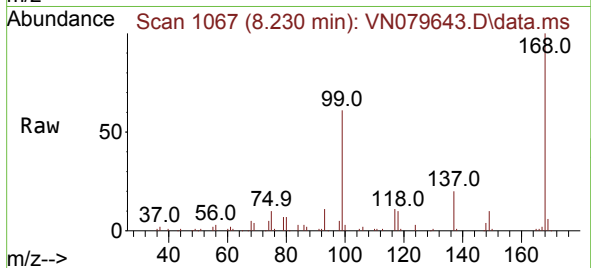
192 17.3 12.7 19.1



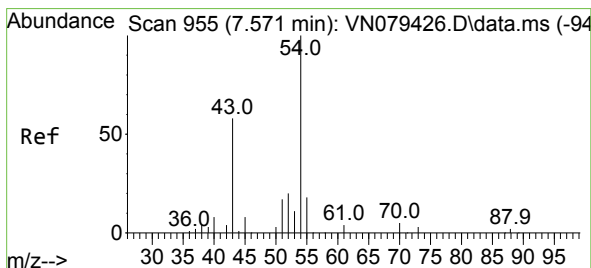
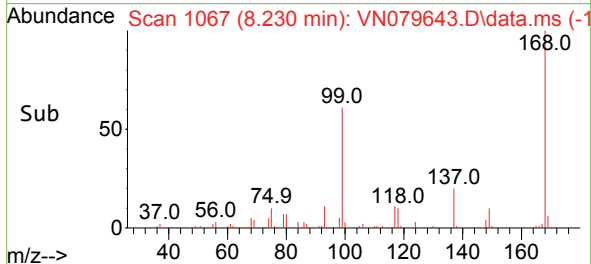
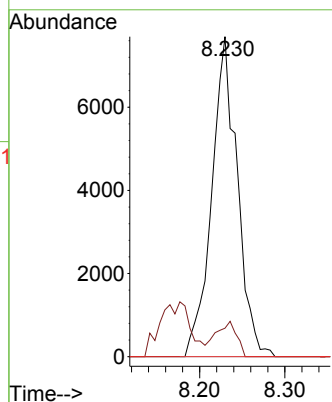


#36
1,1-Dichloropropene
Concen: 4.128 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN079643.D
Acq: 23 Oct 2023 12:59

Instrument :
MSVOA_N
ClientSampleId :

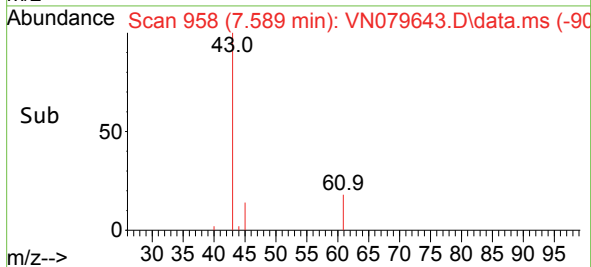
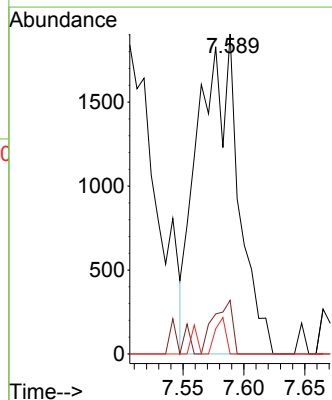
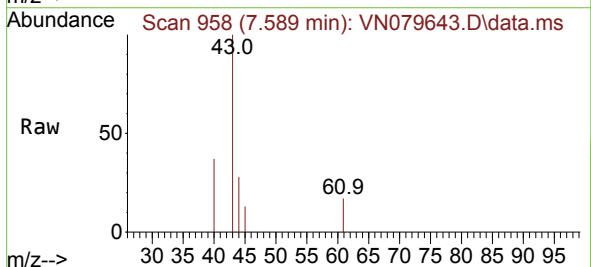


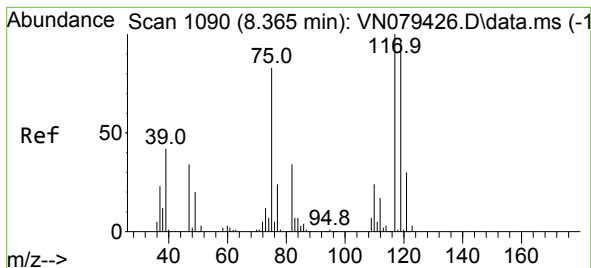
Tgt Ion: 75 Resp: 16069
Ion Ratio Lower Upper
75 100
110 9.0 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 1.133 ug/l
RT: 7.589 min Scan# 958
Delta R.T. 0.018 min
Lab File: VN079643.D
Acq: 23 Oct 2023 12:59

Tgt Ion: 43 Resp: 4390
Ion Ratio Lower Upper
43 100
61 7.9 13.2 19.8#
70 3.0 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 4.901 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.135 min

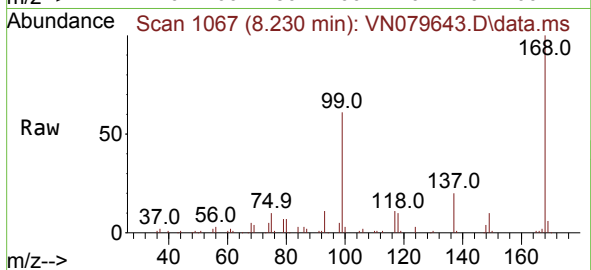
Lab File: VN079643.D

Acq: 23 Oct 2023 12:59

Instrument :

MSVOA_N

ClientSampleId :



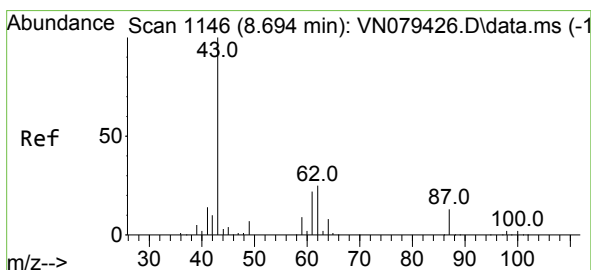
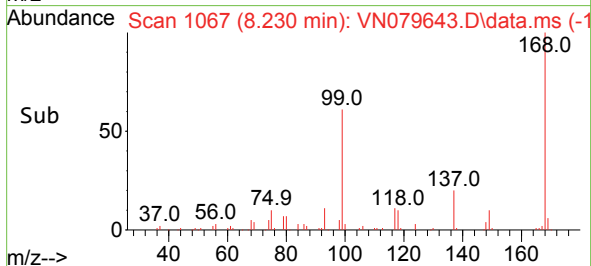
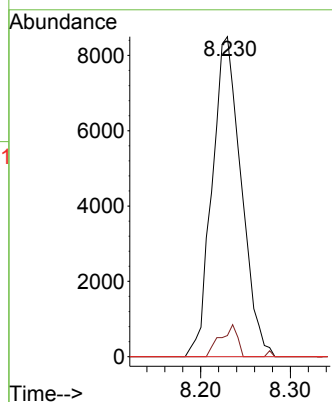
Tgt Ion:117 Resp: 19098

Ion Ratio Lower Upper

117 100

119 6.6 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 25.769 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN079643.D

Acq: 23 Oct 2023 12:59

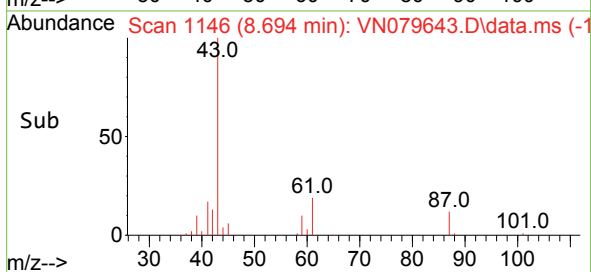
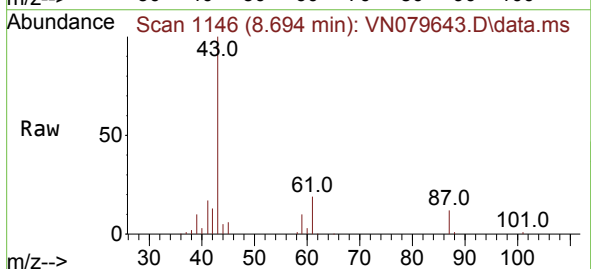
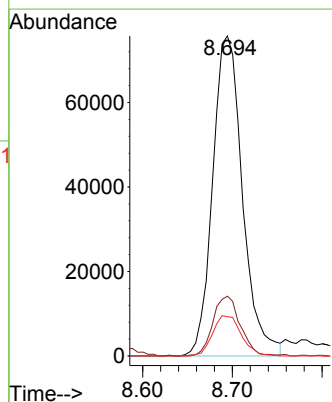
Tgt Ion: 43 Resp: 174861

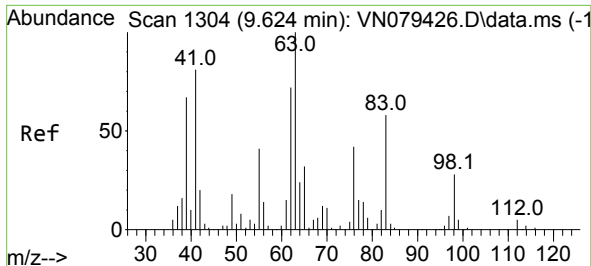
Ion Ratio Lower Upper

43 100

61 17.2 24.7 37.1#

87 12.1 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.740 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.124 min

Lab File: VN079643.D

Acq: 23 Oct 2023 12:59

Instrument :

MSVOA_N

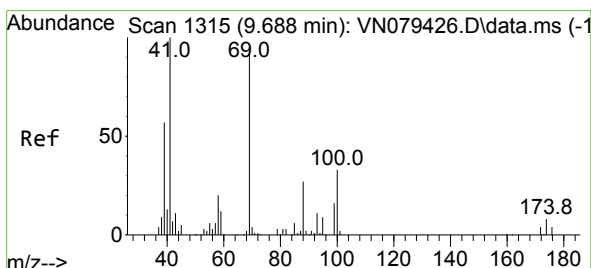
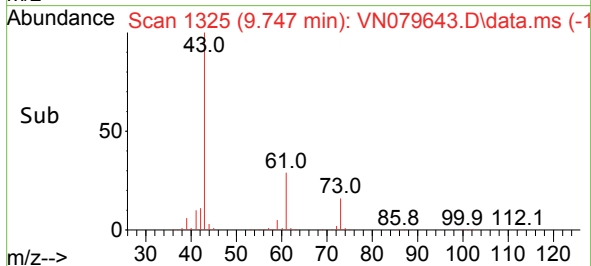
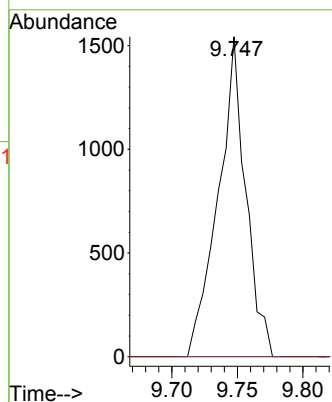
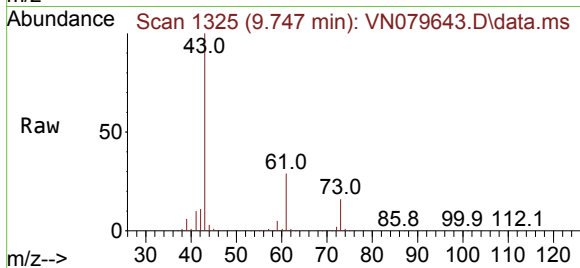
ClientSampleId :

Tgt Ion: 63 Resp: 2253

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 58.740 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.059 min

Lab File: VN079643.D

Acq: 23 Oct 2023 12:59

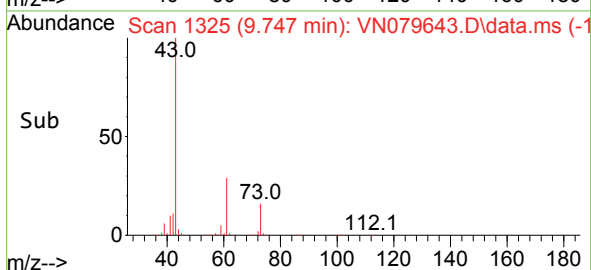
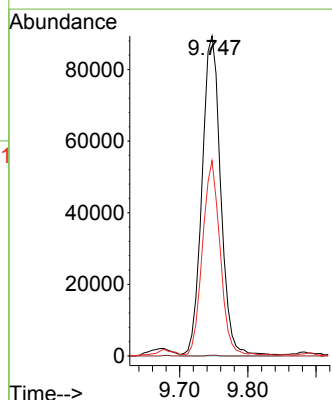
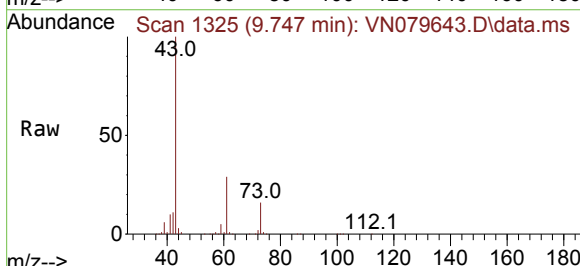
Tgt Ion: 41 Resp: 170804

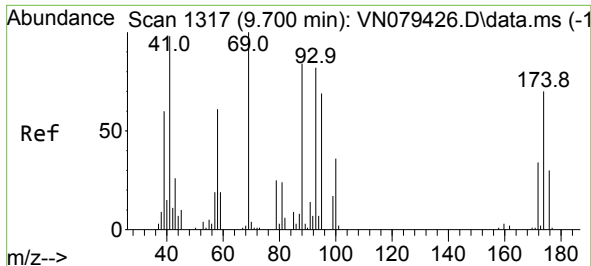
Ion Ratio Lower Upper

41 100

69 0.1 90.4 135.6#

39 56.9 54.6 81.8





#49

1,4-Dioxane

Concen: 1.867 ug/l

RT: 9.736 min Scan# 11

Delta R.T. 0.036 min

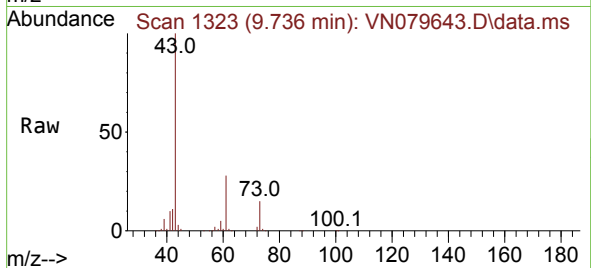
Lab File: VN079643.D

Acq: 23 Oct 2023 12:59

Instrument :

MSVOA_N

ClientSampleId :



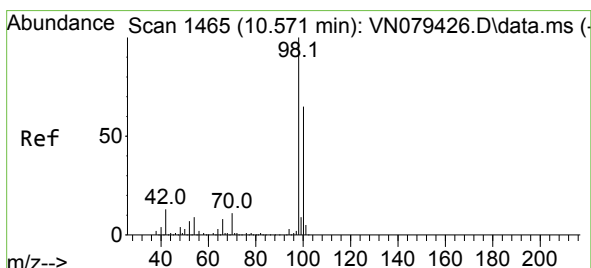
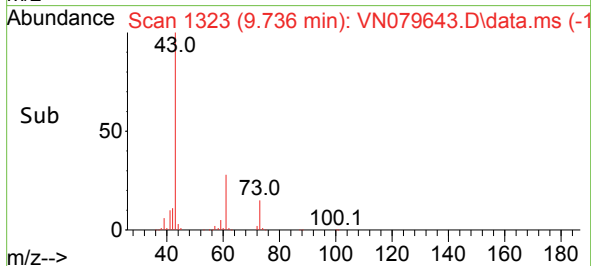
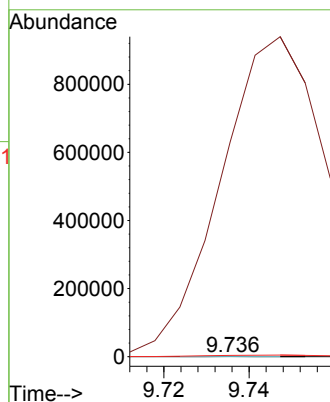
Tgt Ion: 88 Resp: 100

Ion Ratio Lower Upper

88 100

43 1714950.0 17.0 25.6#

58 9603.0 47.0 70.4#



#50

Toluene-d8

Concen: 52.399 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079643.D

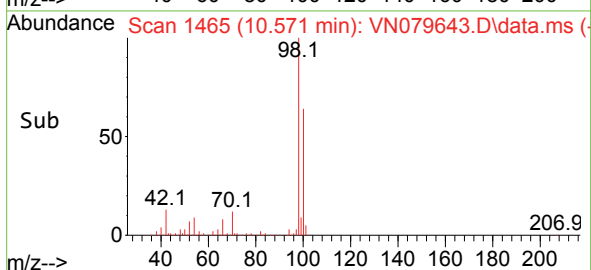
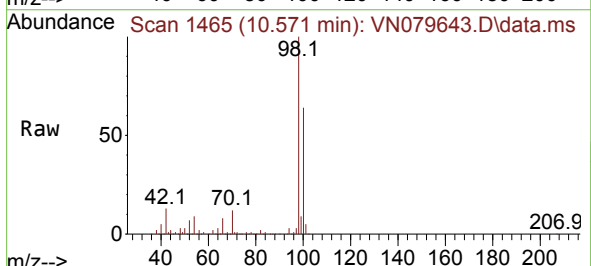
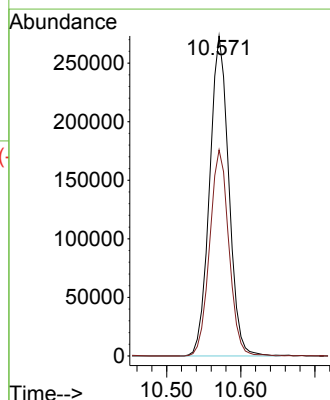
Acq: 23 Oct 2023 12:59

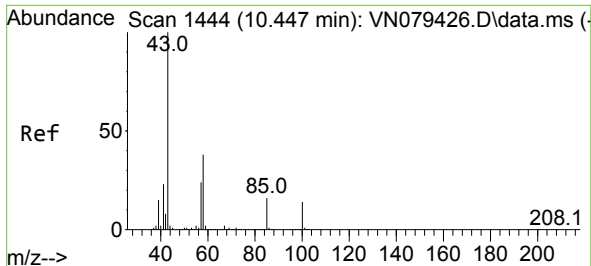
Tgt Ion: 98 Resp: 491726

Ion Ratio Lower Upper

98 100

100 64.4 52.0 78.0

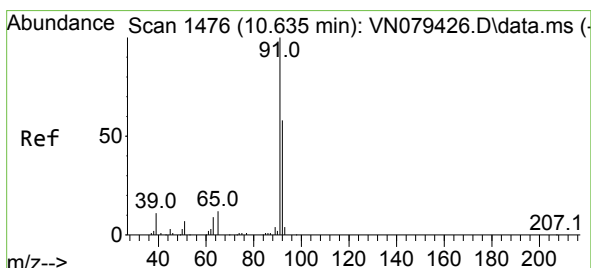
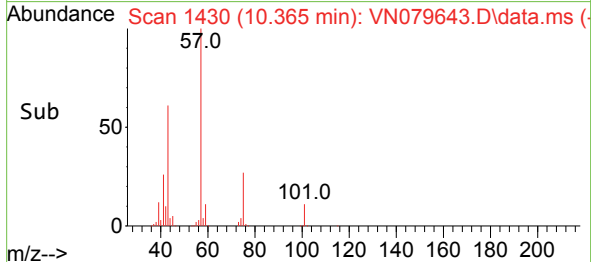
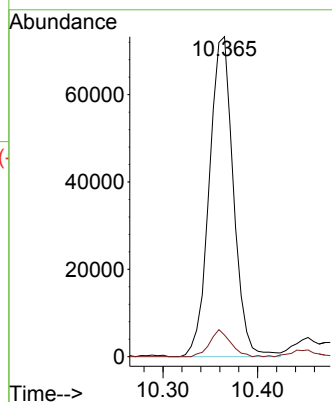
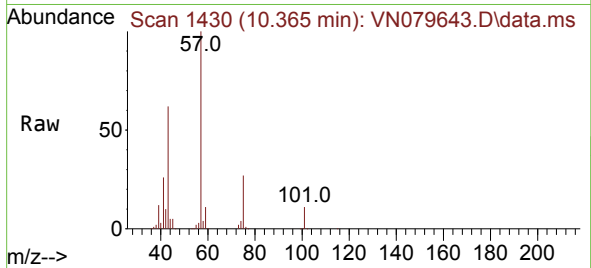




#51
4-Methyl-2-Pentanone
Concen: 33.987 ug/l
RT: 10.365 min Scan# 1444
Delta R.T. -0.082 min
Lab File: VN079643.D
Acq: 23 Oct 2023 12:59

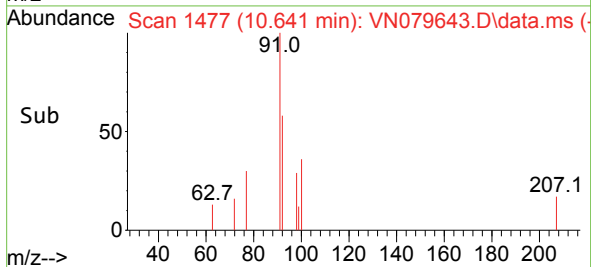
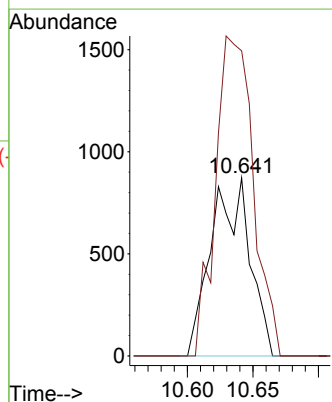
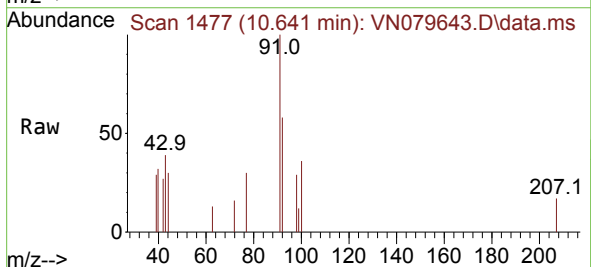
Instrument :
MSVOA_N
ClientSampleId :

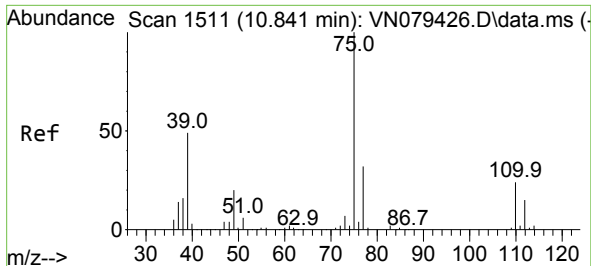
Tgt Ion: 43 Resp: 130191
Ion Ratio Lower Upper
43 100
58 7.2 36.6 54.8#



#52
Toluene
Concen: 0.262 ug/l
RT: 10.641 min Scan# 1477
Delta R.T. 0.006 min
Lab File: VN079643.D
Acq: 23 Oct 2023 12:59

Tgt Ion: 92 Resp: 1781
Ion Ratio Lower Upper
92 100
91 176.1 137.4 206.0

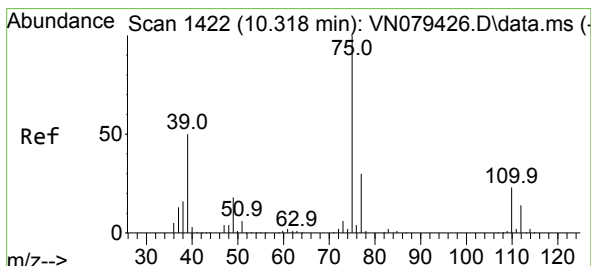
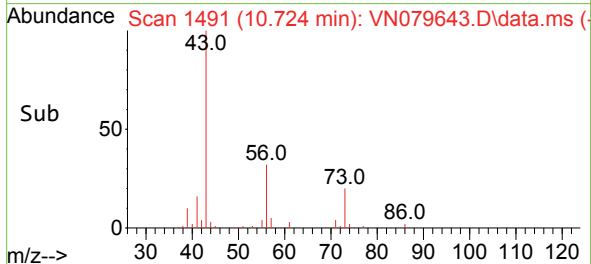
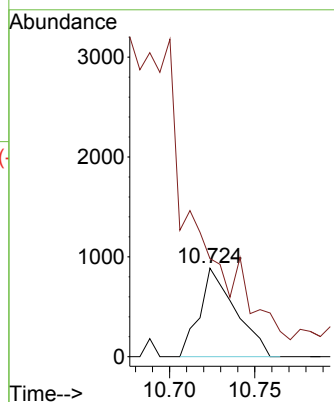
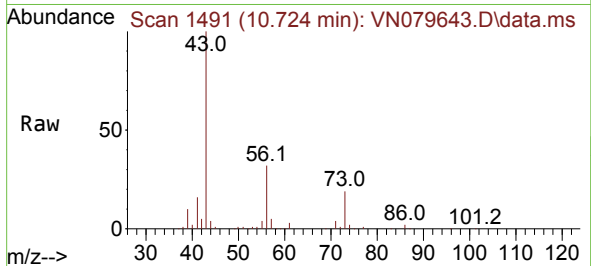




#53
 t-1,3-Dichloropropene
 Concen: 0.319 ug/l
 RT: 10.724 min Scan# 1491
 Delta R.T. -0.117 min
 Lab File: VN079643.D
 Acq: 23 Oct 2023 12:59

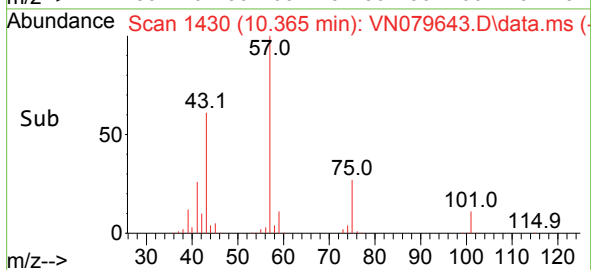
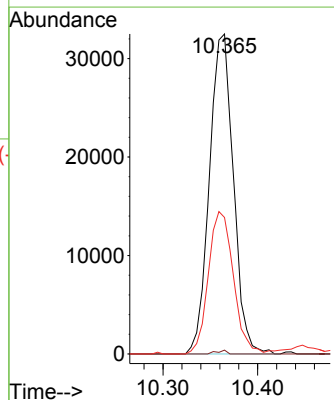
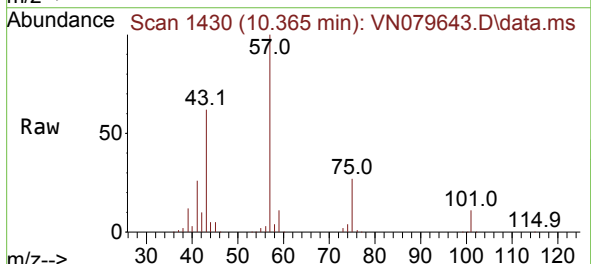
Instrument :
 MSVOA_N
 ClientSampleId :

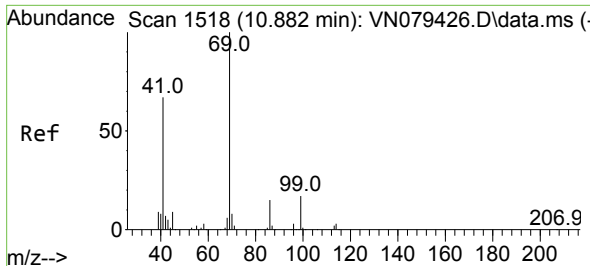
Tgt Ion: 75 Resp: 1303
 Ion Ratio Lower Upper
 75 100
 77 82.2 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 12.806 ug/l
 RT: 10.365 min Scan# 1430
 Delta R.T. 0.047 min
 Lab File: VN079643.D
 Acq: 23 Oct 2023 12:59

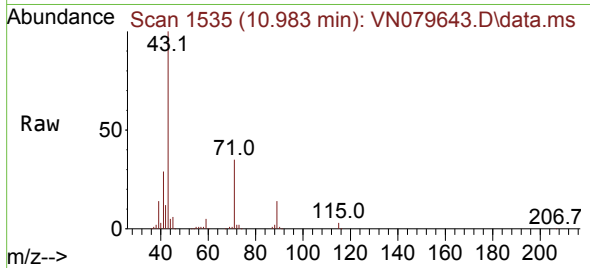
Tgt Ion: 75 Resp: 57325
 Ion Ratio Lower Upper
 75 100
 77 1.2 26.1 39.1#
 39 42.6 31.6 47.4



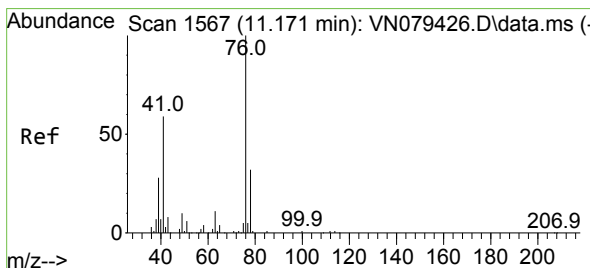
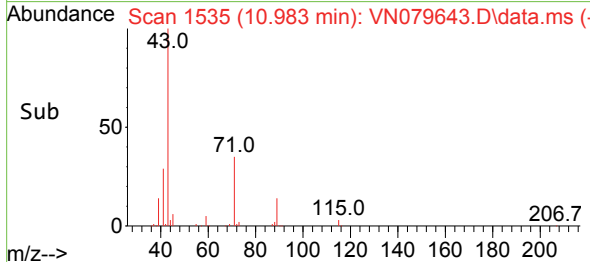
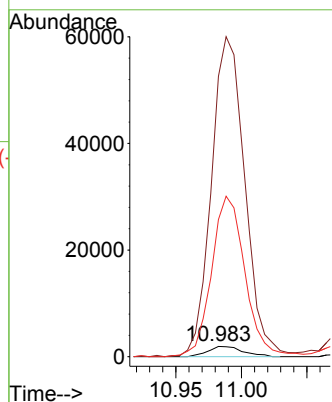


#56
Ethyl methacrylate
Concen: 0.958 ug/l
RT: 10.983 min Scan# 1535
Delta R.T. 0.101 min
Lab File: VN079643.D
Acq: 23 Oct 2023 12:59

Instrument :
MSVOA_N
ClientSampleId :

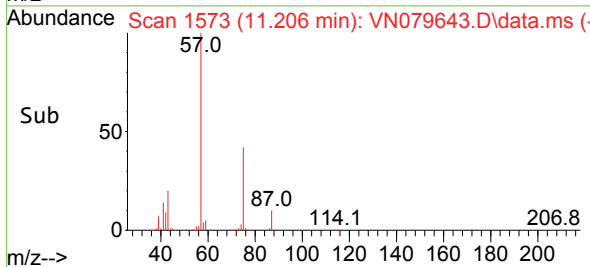
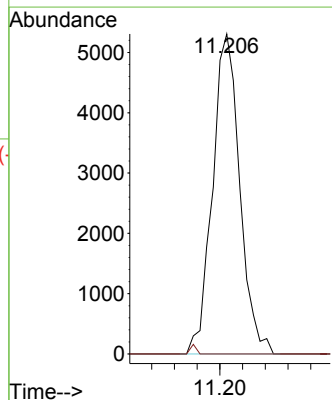
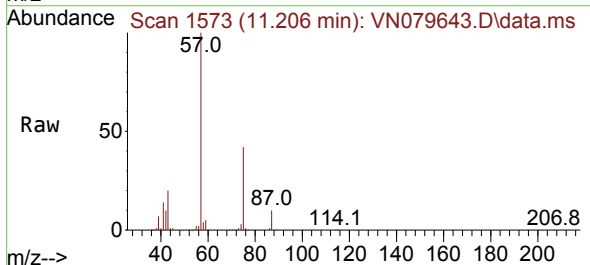


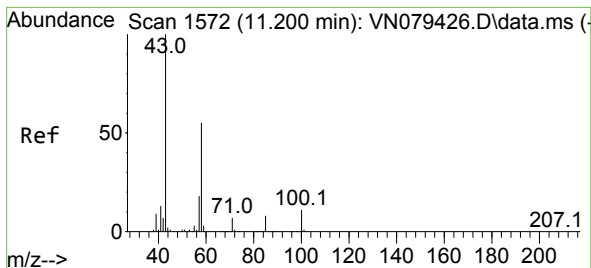
Tgt Ion: 69 Resp: 3595
Ion Ratio Lower Upper
69 100
41 2969.7 39.6 59.4#
39 1485.4 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.871 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN079643.D
Acq: 23 Oct 2023 12:59

Tgt Ion: 76 Resp: 8824
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

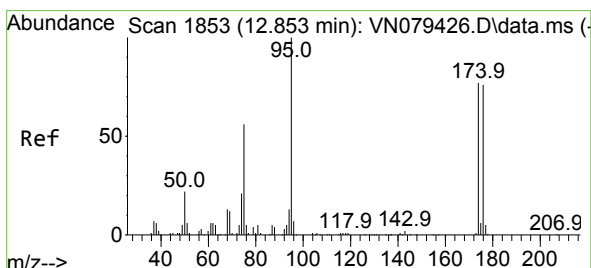
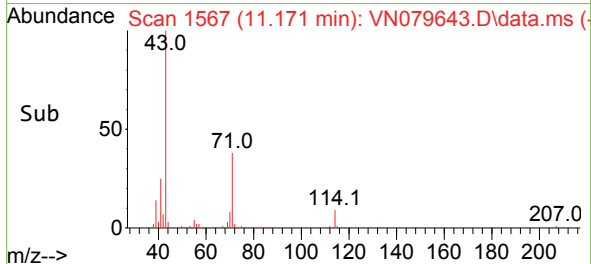
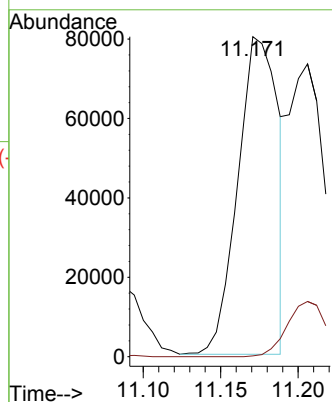
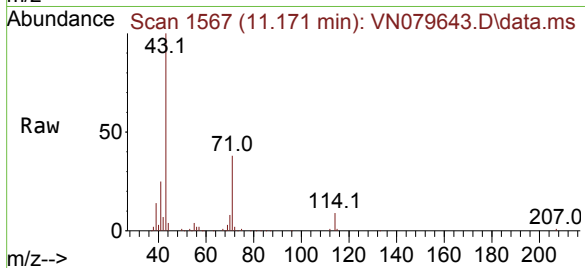




#59
2-Hexanone
Concen: 52.229 ug/l
RT: 11.171 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN079643.D
Acq: 23 Oct 2023 12:59

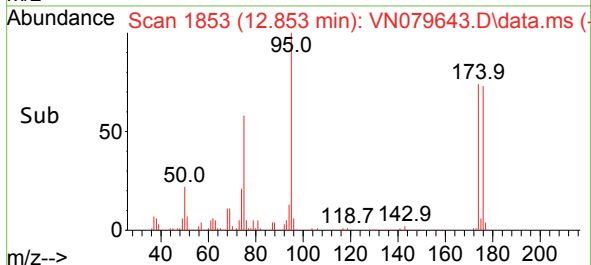
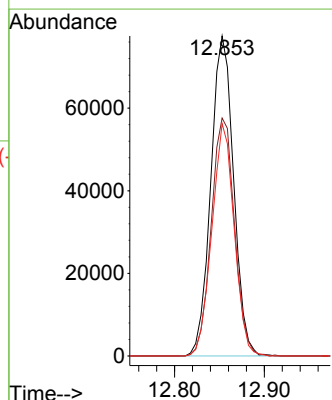
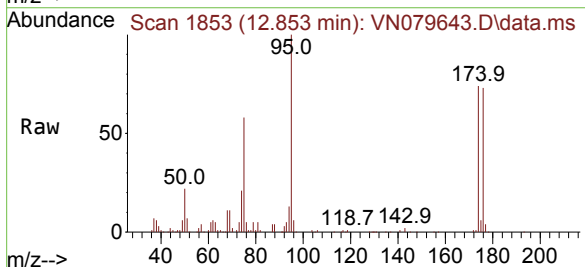
Instrument :
MSVOA_N
ClientSampleId :

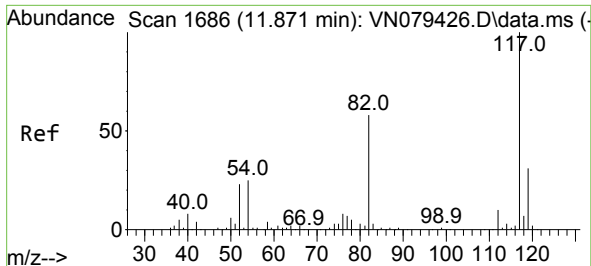
Tgt Ion: 43 Resp: 144369
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 45.287 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079643.D
Acq: 23 Oct 2023 12:59

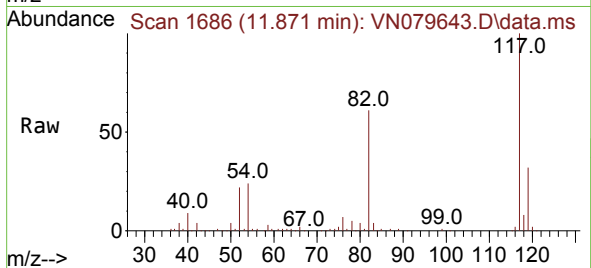
Tgt Ion: 95 Resp: 136387
Ion Ratio Lower Upper
95 100
174 76.0 0.0 143.8
176 71.1 0.0 135.8



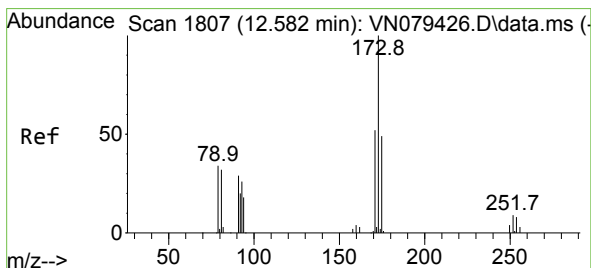
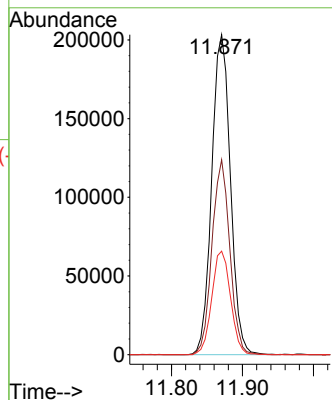
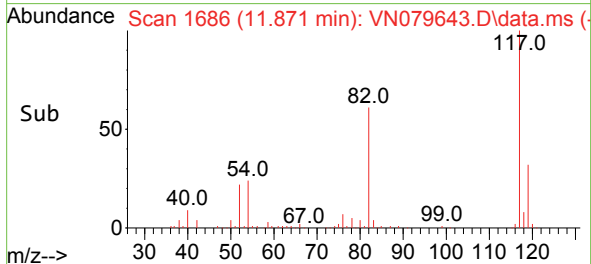


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN079643.D
Acq: 23 Oct 2023 12:59

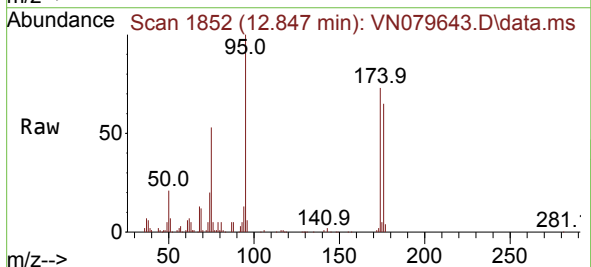
Instrument :
MSVOA_N
ClientSampleId :



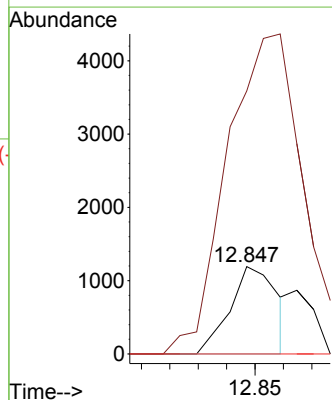
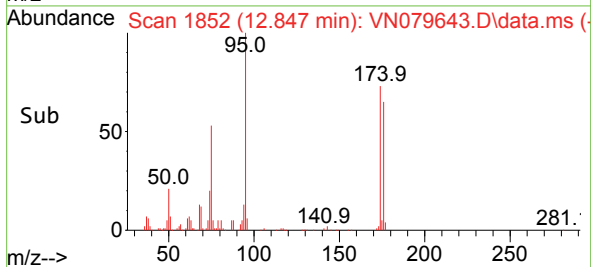
Tgt Ion:117 Resp: 371167
Ion Ratio Lower Upper
117 100
82 60.9 44.0 66.0
119 32.4 25.6 38.4

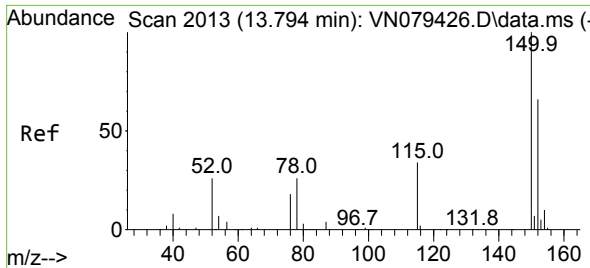


#71
Bromoform
Concen: 0.622 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN079643.D
Acq: 23 Oct 2023 12:59



Tgt Ion:173 Resp: 1378
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0

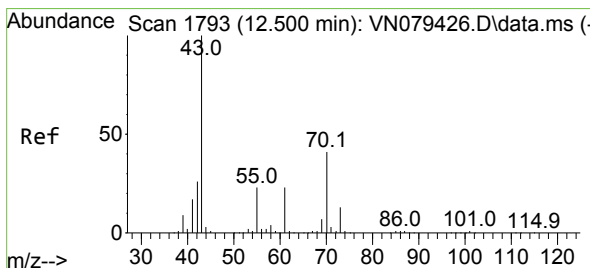
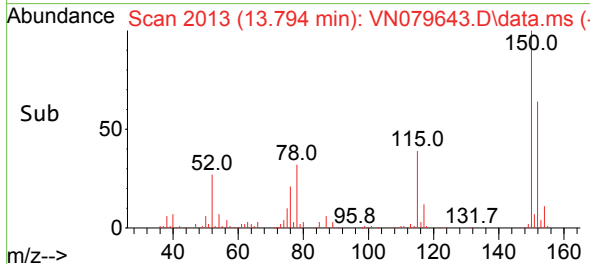
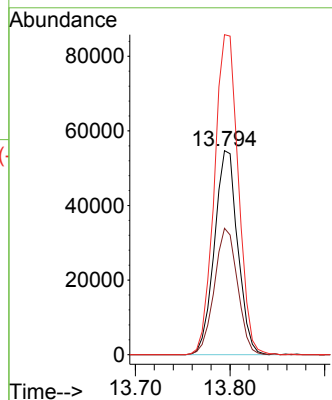
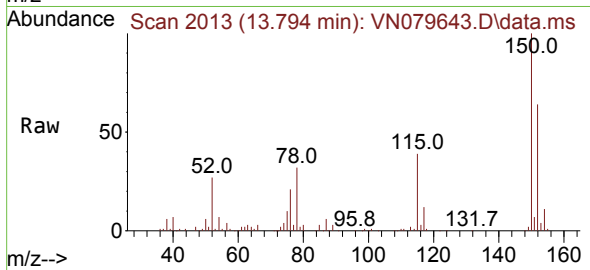




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN079643.D
 Acq: 23 Oct 2023 12:59

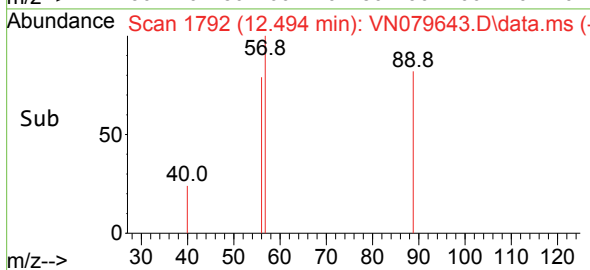
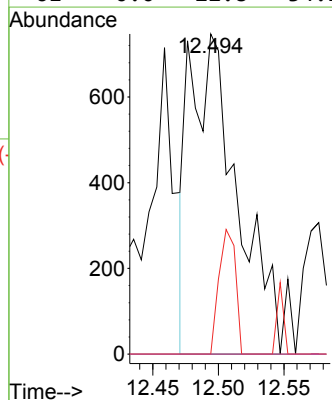
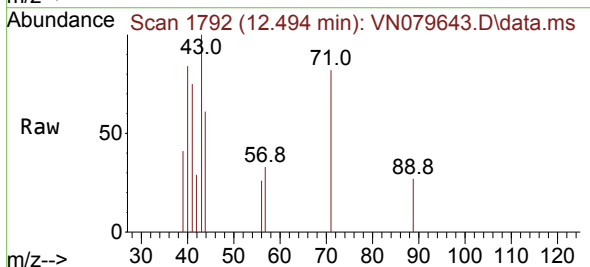
Instrument :
 MSVOA_N
 ClientSampleId :

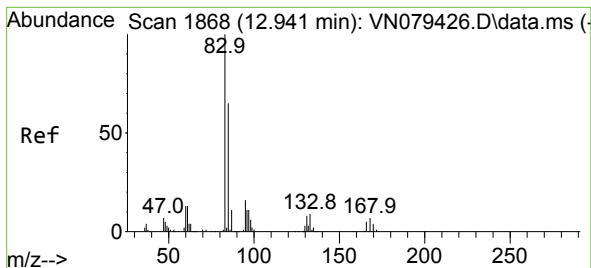
Tgt Ion:152 Resp: 93433
 Ion Ratio Lower Upper
 152 100
 115 61.8 32.3 96.8
 150 161.0 0.0 355.8



#74
 N-ethyl acetate
 Concen: 0.525 ug/l
 RT: 12.494 min Scan# 1792
 Delta R.T. -0.006 min
 Lab File: VN079643.D
 Acq: 23 Oct 2023 12:59

Tgt Ion: 43 Resp: 1870
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 13.6 21.4 32.0#
 61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.847 min Scan# 1852

Delta R.T. -0.094 min

Lab File: VN079643.D

Acq: 23 Oct 2023 12:59

Instrument :

MSVOA_N

ClientSampleId :

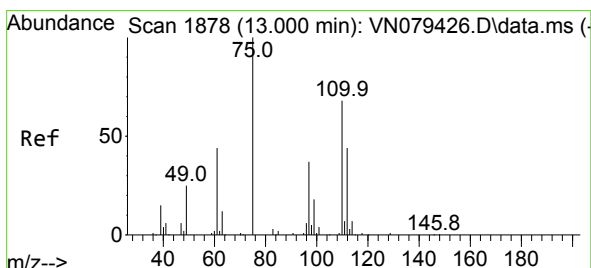
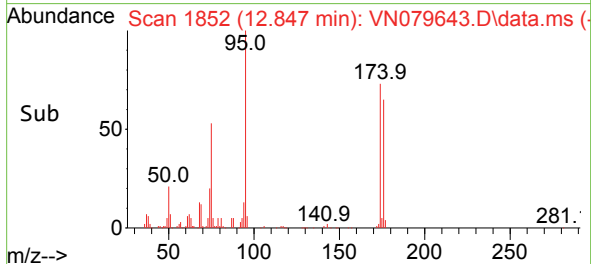
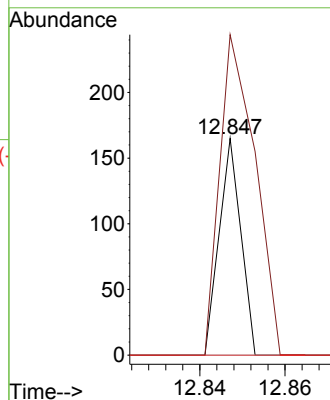
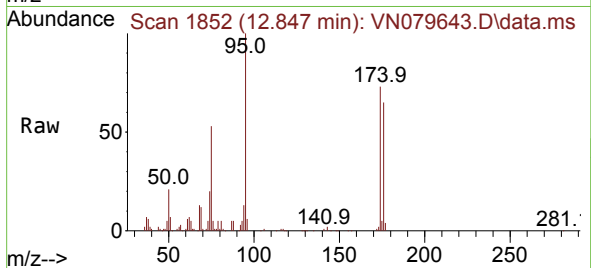
Tgt Ion: 83 Resp: 58

Ion Ratio Lower Upper

83 100

131 243.1 5.0 15.0#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 27.704 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079643.D

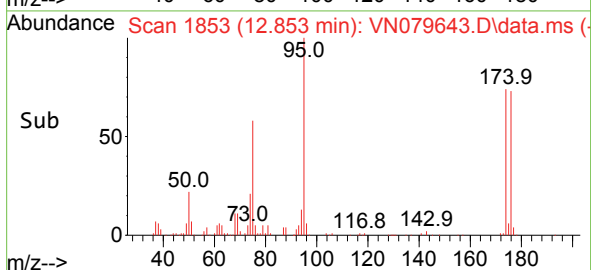
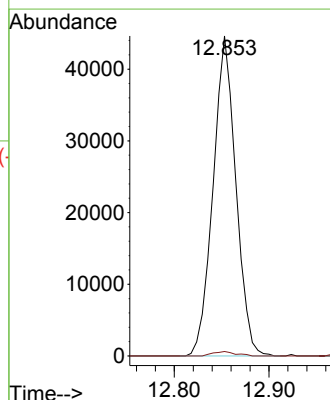
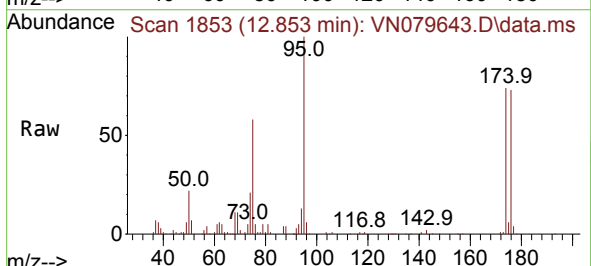
Acq: 23 Oct 2023 12:59

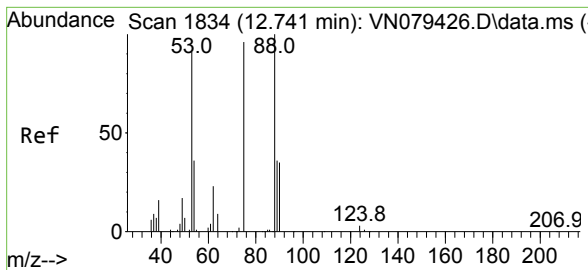
Tgt Ion: 75 Resp: 74633

Ion Ratio Lower Upper

75 100

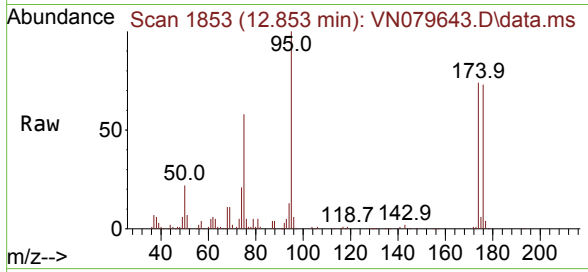
77 1.4 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 80.385 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN079643.D
 Acq: 23 Oct 2023 12:59

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 74633
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

