

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121622\
 Data File : VN075847.D
 Acq On : 16 Dec 2022 15:02
 Operator : JC\MD
 Sample : N6087-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 12-15-2022-HOWE-AVE

Quant Time: Dec 17 08:40:10 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

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

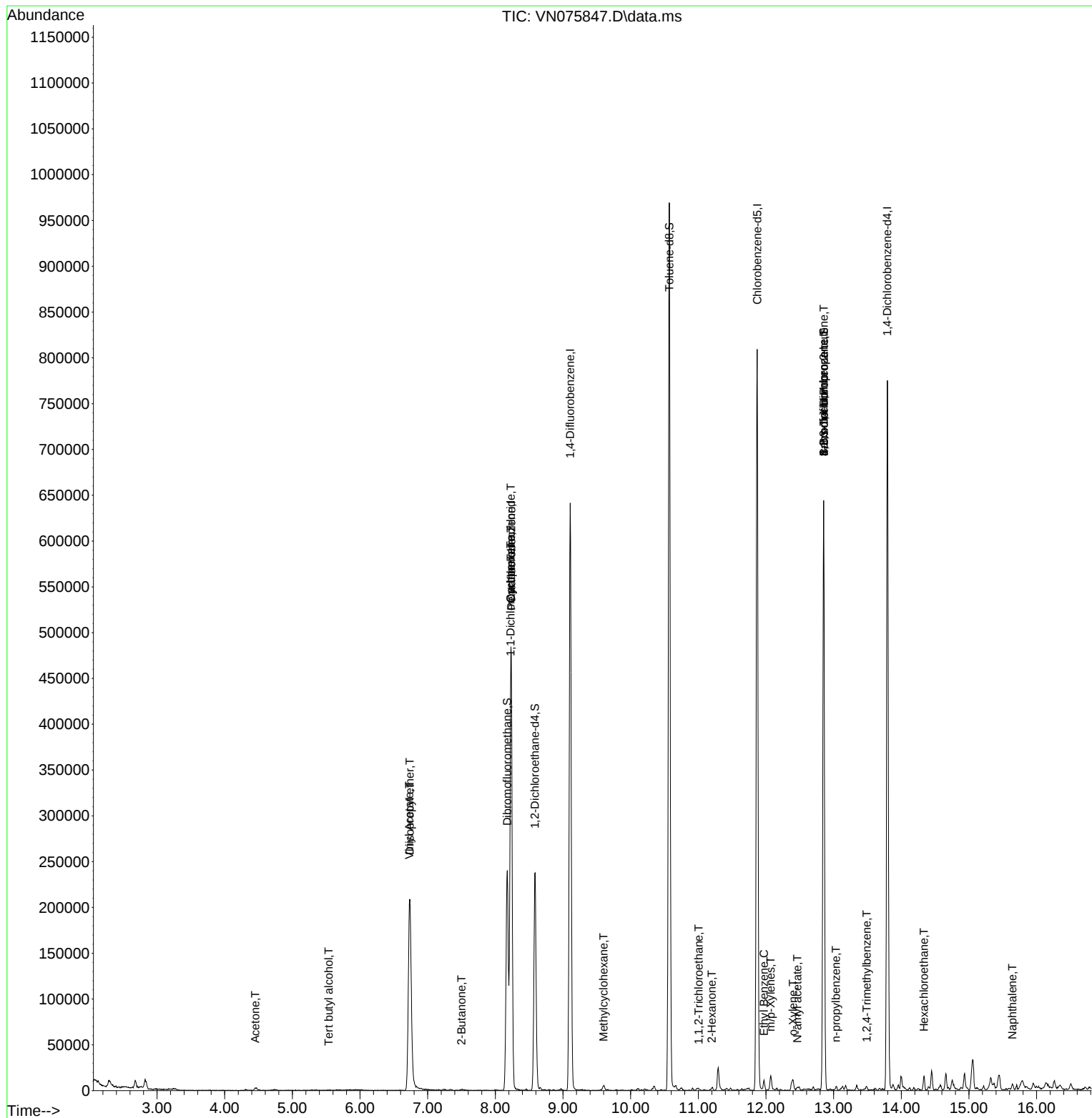
Internal Standards						
1) Pentafluorobenzene	8.236	168	380330	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	592133	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	499953	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	218060	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	192919	46.625	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.260%		
35) Dibromofluoromethane	8.177	113	173669	47.360	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.720%		
50) Toluene-d8	10.571	98	673297	49.108	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.220%		
62) 4-Bromofluorobenzene	12.853	95	212746	46.849	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.700%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.536	59	168	0.287	ug/l #	72
16) Acetone	4.453	43	4994	3.501	ug/l	94
20) Methylene Chloride	5.283	84	57	Below Cal	#	12
22) Diisopropyl ether	6.736	45	16513	1.725	ug/l #	1
23) Vinyl Acetate	6.730	43	42363	6.575	ug/l #	65
25) 2-Butanone	7.500	43	1329	0.665	ug/l #	75
31) Cyclohexane	8.230	56	7719	1.303	ug/l #	12
36) 1,1-Dichloropropene	8.224	75	27197	5.583	ug/l #	50
38) Carbon Tetrachloride	8.230	117	37447	6.868	ug/l #	16
39) Methylcyclohexane	9.600	83	2648	0.451	ug/l #	88
55) 1,1,2-Trichloroethane	11.006	97	967	0.252	ug/l #	16
59) 2-Hexanone	11.200	43	1439	0.506	ug/l #	25
67) Ethyl Benzene	11.971	91	3707	0.214	ug/l	98
68) m/p-Xylenes	12.071	106	5191	0.757	ug/l	98
69) o-Xylene	12.400	106	2680	0.395	ug/l	96
71) Bromoform	12.853	173	1904	0.688	ug/l #	1
74) N-amyl acetate	12.465	43	1219	0.264	ug/l #	50
76) 1,2,3-Trichloropropane	12.853	75	107881	24.543	ug/l #	1
78) n-propylbenzene	13.035	91	3808	0.219	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.853	75	107881	88.343	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.488	105	3255	0.249	ug/l	95
90) Hexachloroethane	14.335	117	938	0.393	ug/l #	11
95) Naphthalene	15.641	128	6980	2.740	ug/l #	89

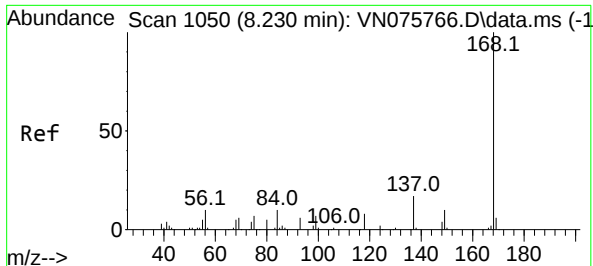
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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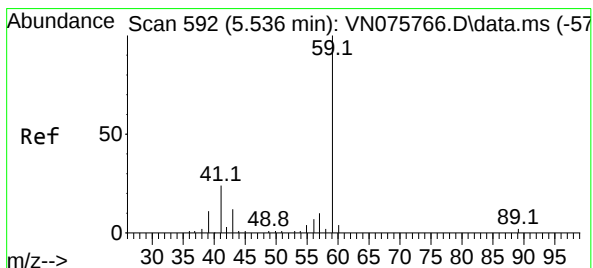
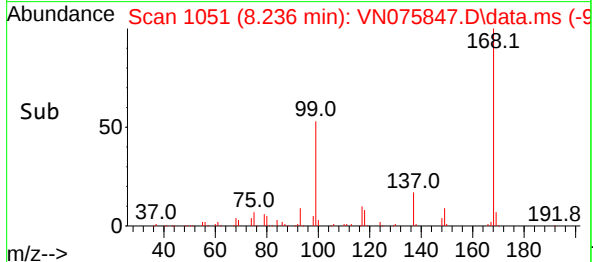
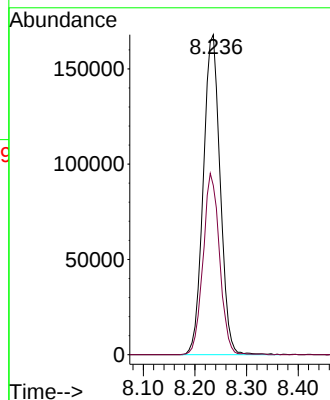
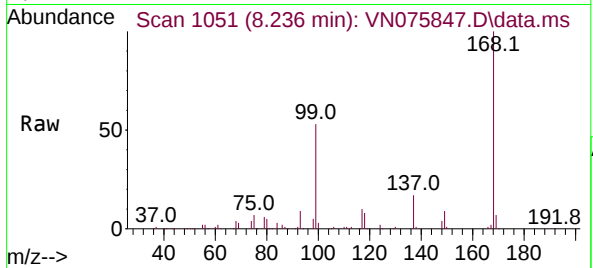




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1051
Delta R.T. 0.006 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

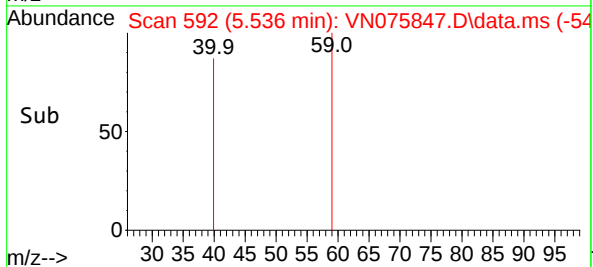
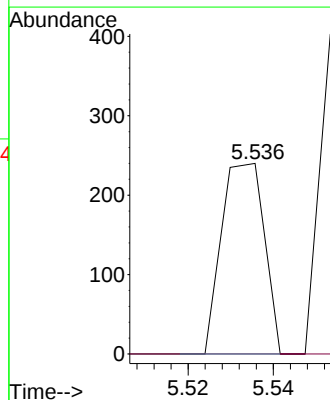
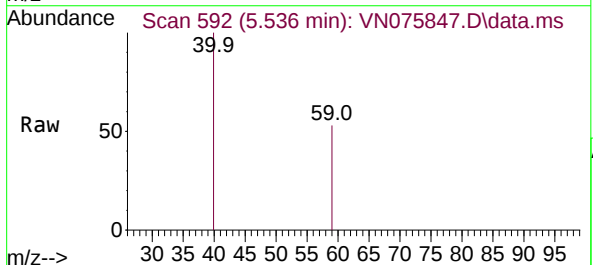
Instrument :
MSVOA_N
ClientSampleId :
12-15-2022-HOWE-AVE

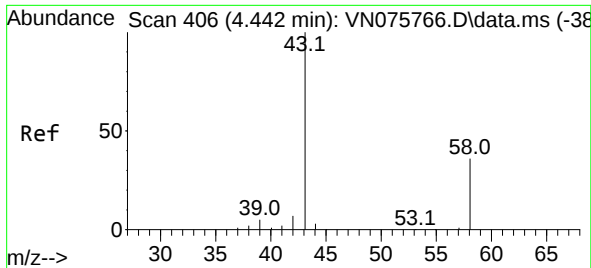
Tgt Ion:168 Resp: 380330
Ion Ratio Lower Upper
168 100
99 52.8 44.2 66.4



#11
Tert butyl alcohol
Concen: 0.287 ug/l
RT: 5.536 min Scan# 592
Delta R.T. 0.000 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

Tgt Ion: 59 Resp: 168
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 3.501 ug/l

RT: 4.453 min Scan# 406

Delta R.T. 0.012 min

Lab File: VN075847.D

Acq: 16 Dec 2022 15:02

Instrument :

MSVOA_N

ClientSampleId :

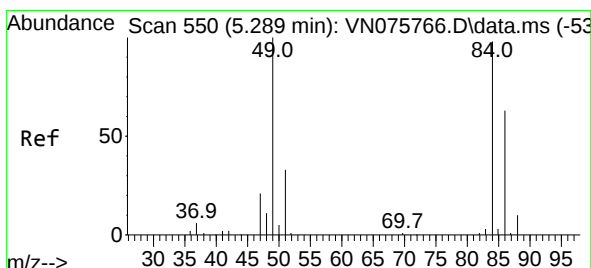
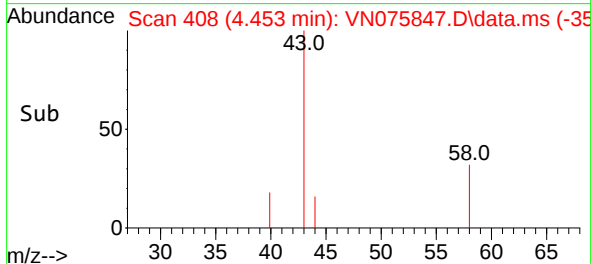
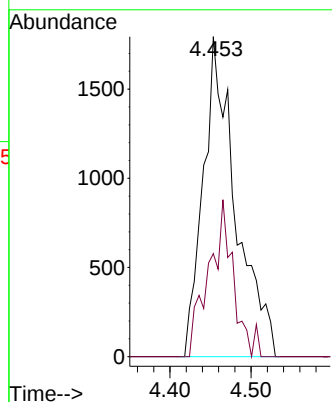
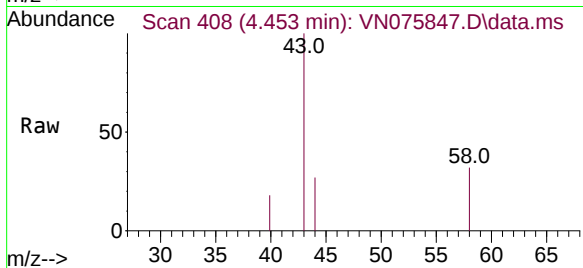
12-15-2022-HOWE-AVE

Tgt Ion: 43 Resp: 4994

Ion Ratio Lower Upper

43 100

58 32.2 28.6 43.0



#20

Methylene Chloride

Concen: Below Cal

RT: 5.283 min Scan# 549

Delta R.T. -0.006 min

Lab File: VN075847.D

Acq: 16 Dec 2022 15:02

Tgt Ion: 84 Resp: 57

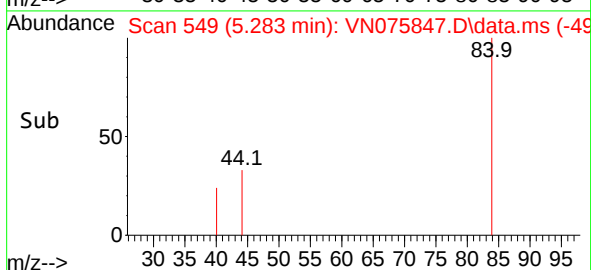
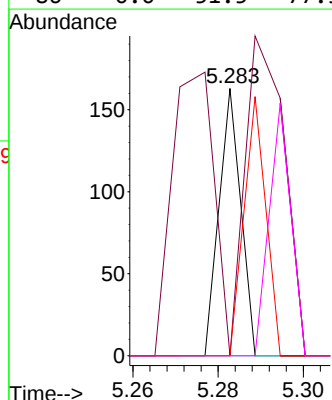
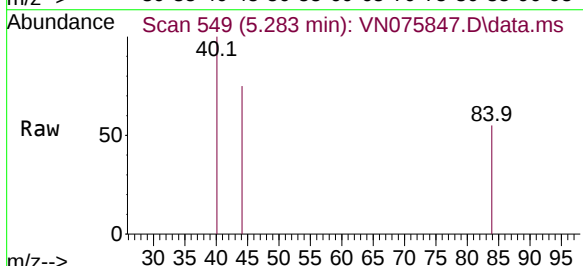
Ion Ratio Lower Upper

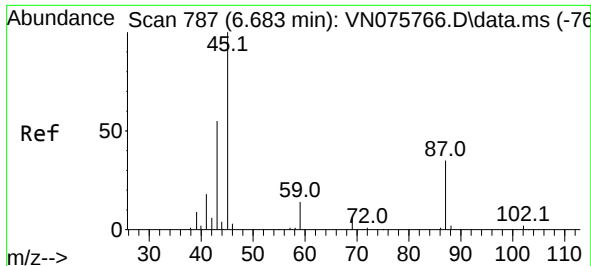
84 100

49 0.0 81.8 122.6#

51 0.0 26.7 40.1#

86 0.0 51.5 77.3#

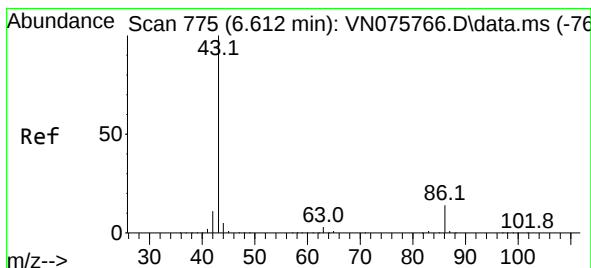
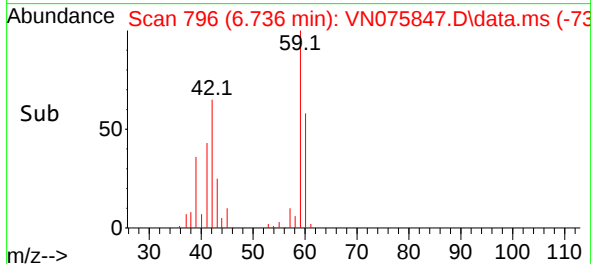
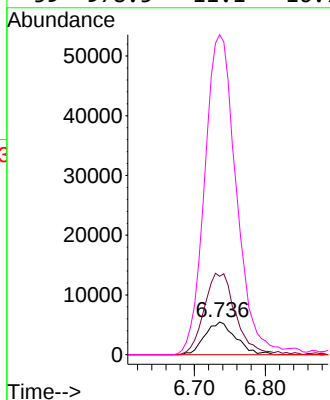
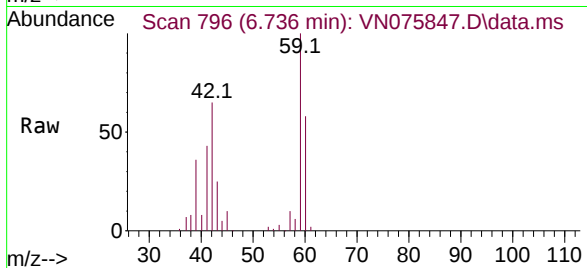




#22
Diisopropyl ether
Concen: 1.725 ug/l
RT: 6.736 min Scan# 796
Delta R.T. 0.053 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

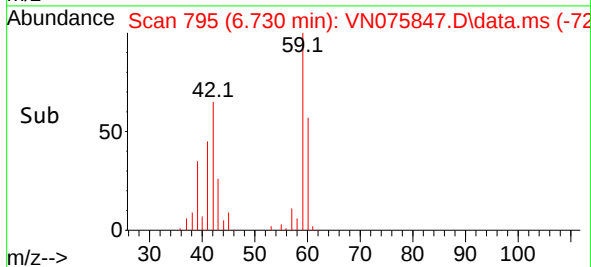
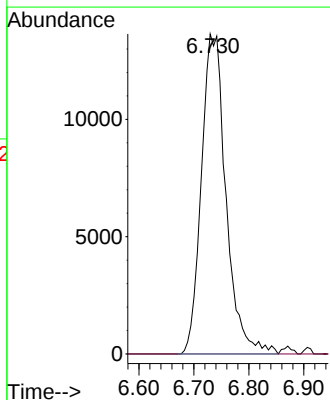
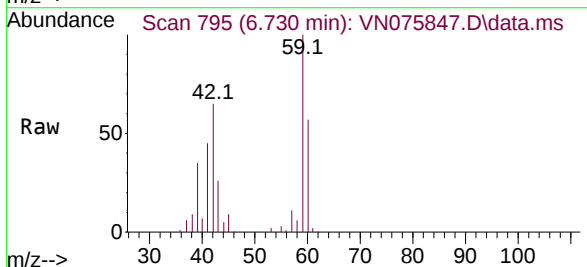
Instrument :
MSVOA_N
ClientSampleId :
12-15-2022-HOWE-AVE

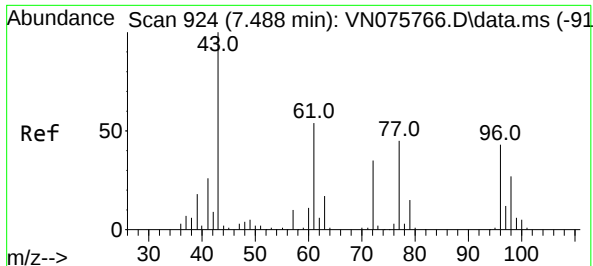
Tgt Ion:	45	Resp:	16513
Ion	Ratio	Lower	Upper
45	100		
43	240.7	44.2	66.4#
87	0.0	28.3	42.5#
59	978.5	11.1	16.7#



#23
Vinyl Acetate
Concen: 6.575 ug/l
RT: 6.730 min Scan# 795
Delta R.T. 0.118 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

Tgt Ion:	43	Resp:	42363
Ion	Ratio	Lower	Upper
43	100		
86	0.0	11.4	17.2#





#25

2-Butanone

Concen: 0.665 ug/l

RT: 7.500 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN075847.D

Acq: 16 Dec 2022 15:02

Instrument :

MSVOA_N

ClientSampleId :

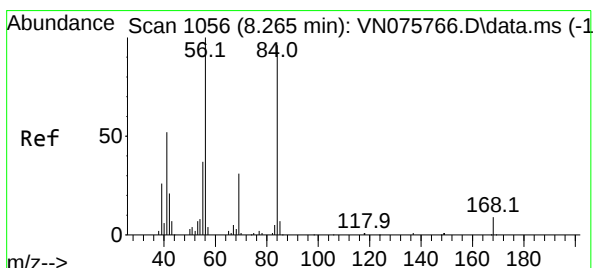
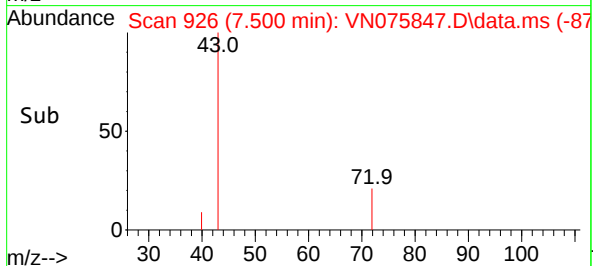
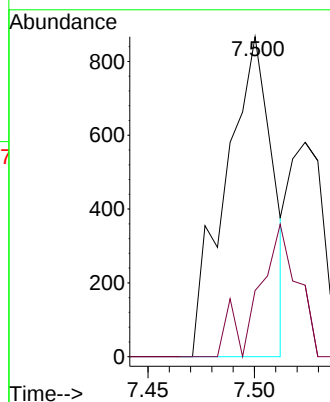
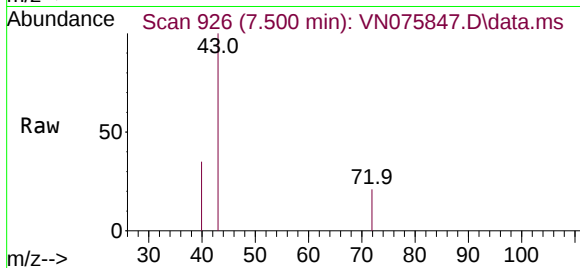
12-15-2022-HOWE-AVE

Tgt Ion: 43 Resp: 1329

Ion Ratio Lower Upper

43 100

72 20.6 28.0 42.0#



#31

Cyclohexane

Concen: 1.303 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.035 min

Lab File: VN075847.D

Acq: 16 Dec 2022 15:02

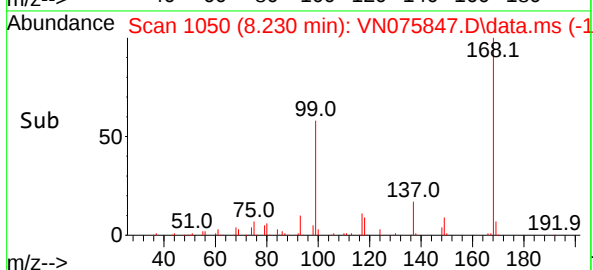
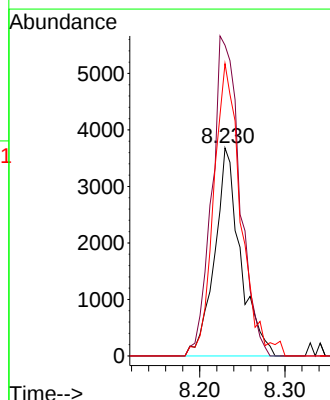
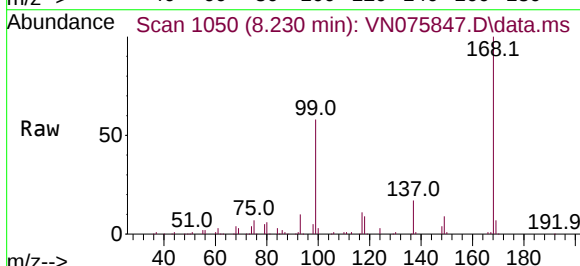
Tgt Ion: 56 Resp: 7719

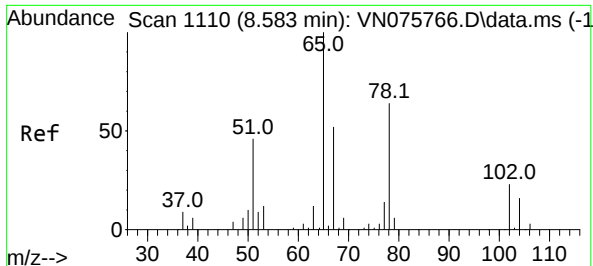
Ion Ratio Lower Upper

56 100

69 149.4 24.7 37.1#

84 140.6 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 46.625 ug/l

RT: 8.583 min Scan# 1110

Delta R.T. 0.000 min

Lab File: VN075847.D

Acq: 16 Dec 2022 15:02

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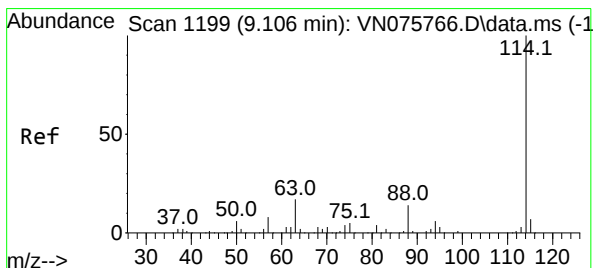
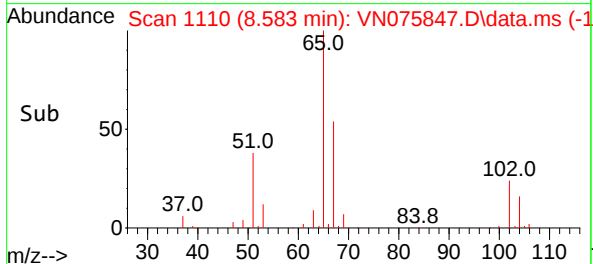
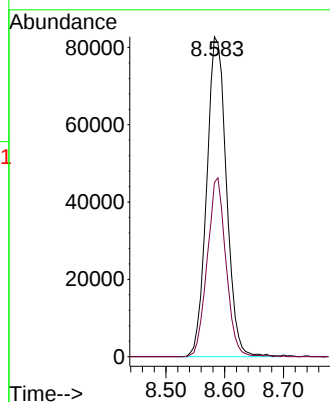
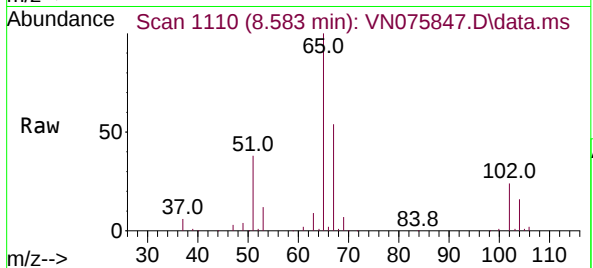
12-15-2022-HOWE-AVE

Tgt Ion: 65 Resp: 192919

Ion Ratio Lower Upper

65 100

67 53.1 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN075847.D

Acq: 16 Dec 2022 15:02

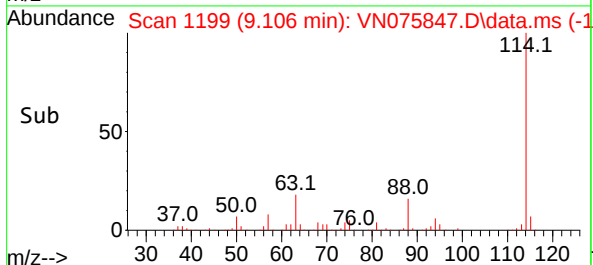
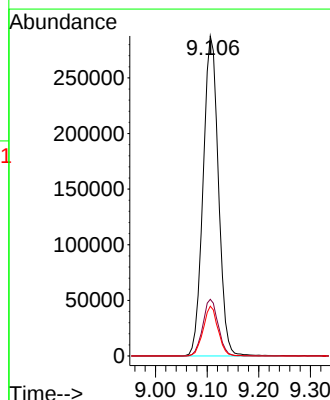
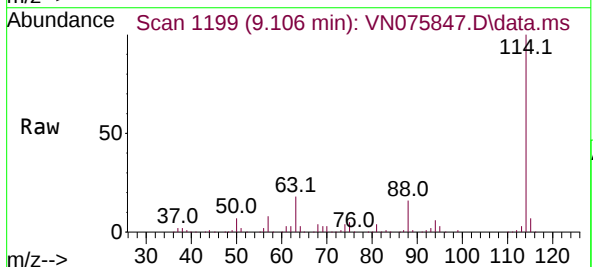
Tgt Ion: 114 Resp: 592133

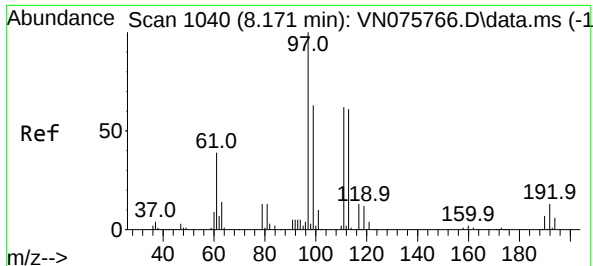
Ion Ratio Lower Upper

114 100

63 17.7 0.0 34.4

88 15.5 0.0 28.8





#35

Dibromofluoromethane

Concen: 47.360 ug/l

RT: 8.177 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VN075847.D

Acq: 16 Dec 2022 15:02

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12-15-2022-HOWE-AVE

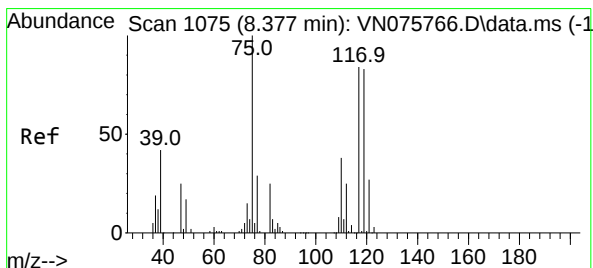
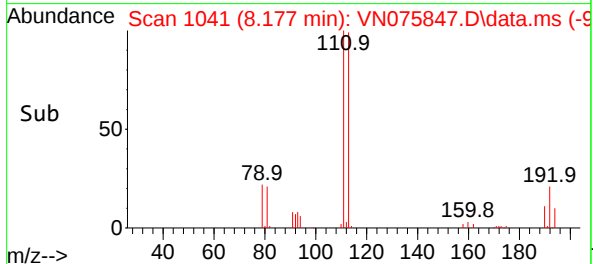
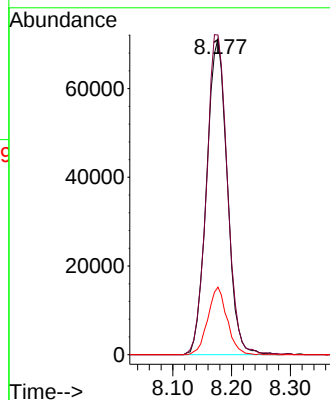
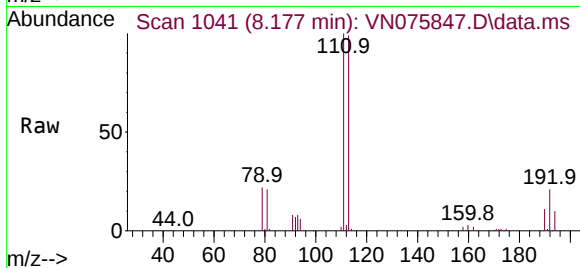
Tgt Ion:113 Resp: 173669

Ion Ratio Lower Upper

113 100

111 102.7 83.4 125.2

192 19.9 16.1 24.1



#36

1,1-Dichloropropene

Concen: 5.583 ug/l

RT: 8.224 min Scan# 1049

Delta R.T. -0.153 min

Lab File: VN075847.D

Acq: 16 Dec 2022 15:02

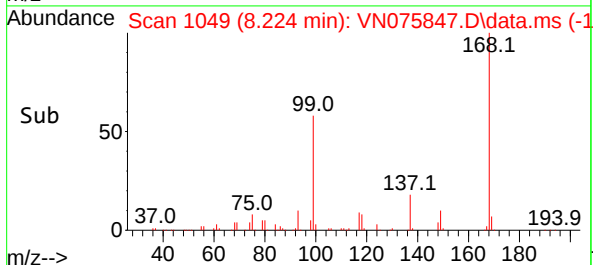
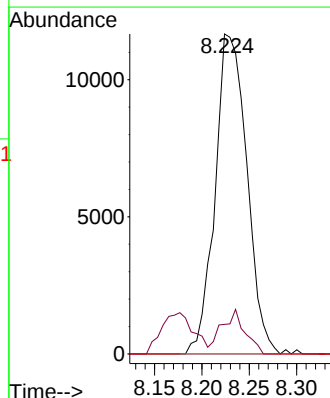
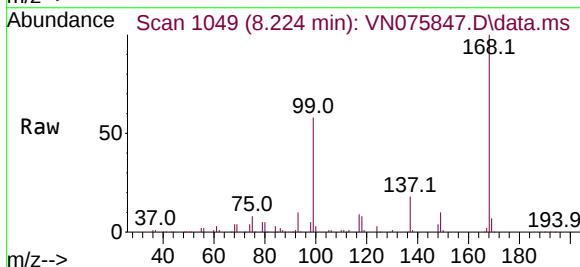
Tgt Ion: 75 Resp: 27197

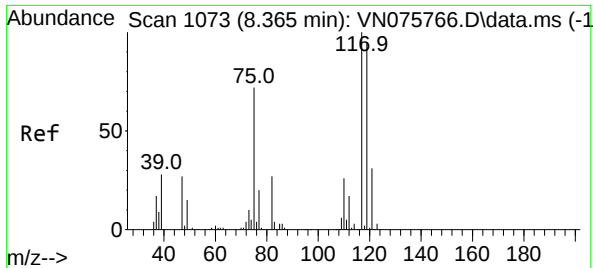
Ion Ratio Lower Upper

75 100

110 10.1 18.8 56.4#

77 0.0 24.1 36.1#

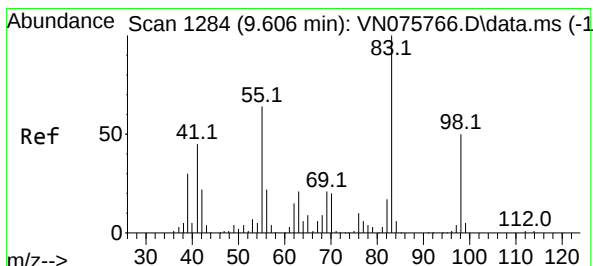
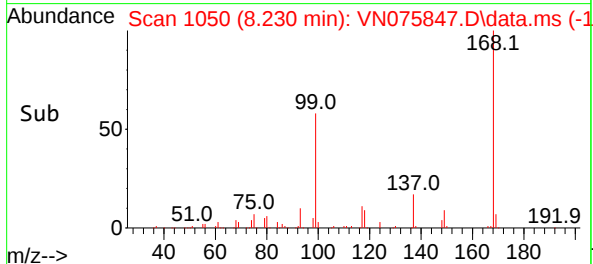
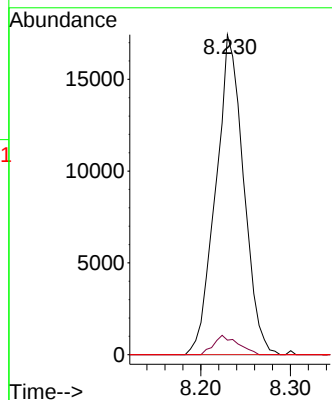
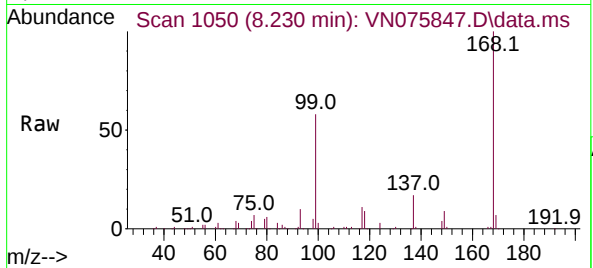




#38
Carbon Tetrachloride
Concen: 6.868 ug/l
RT: 8.230 min Scan# 1073
Delta R.T. -0.135 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

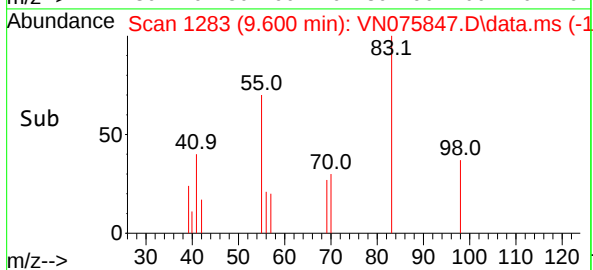
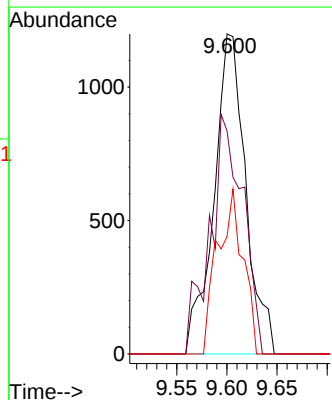
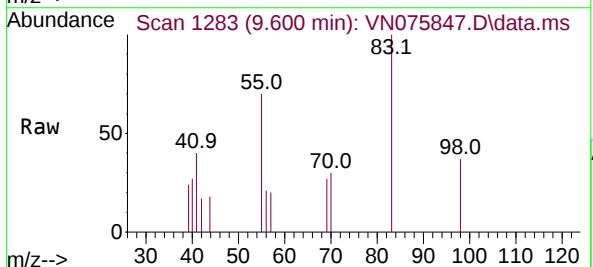
Instrument :
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12-15-2022-HOWE-AVE

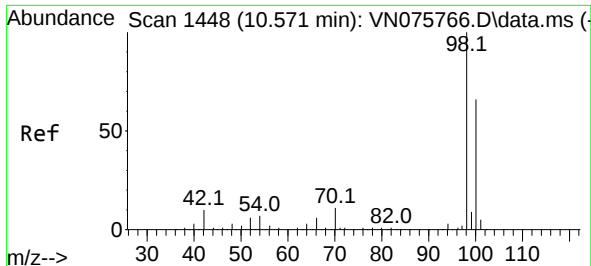
Tgt Ion:117 Resp: 37447
Ion Ratio Lower Upper
117 100
119 4.6 76.1 114.1#
121 0.0 24.5 36.7#



#39
Methylcyclohexane
Concen: 0.451 ug/l
RT: 9.600 min Scan# 1283
Delta R.T. -0.006 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

Tgt Ion: 83 Resp: 2648
Ion Ratio Lower Upper
83 100
55 69.6 51.4 77.0
98 36.7 39.8 59.8#

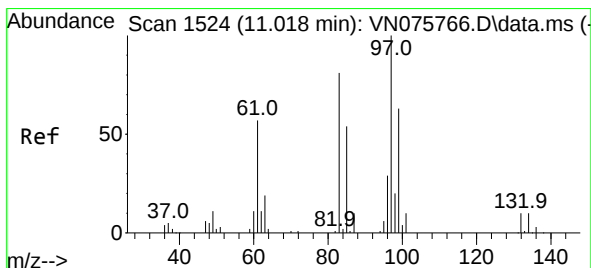
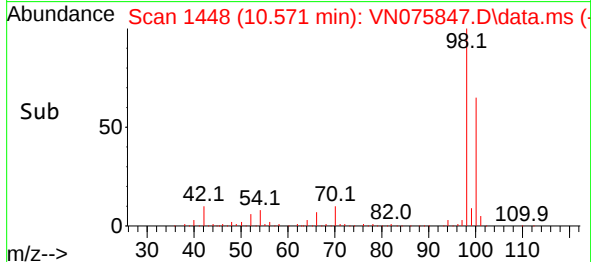
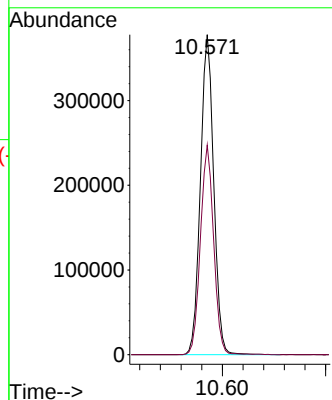
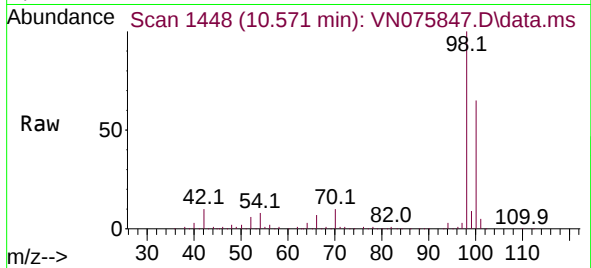




#50
Toluene-d8
Concen: 49.108 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

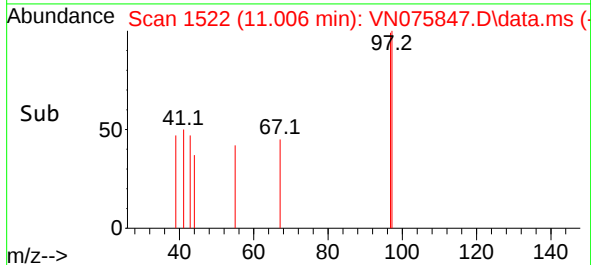
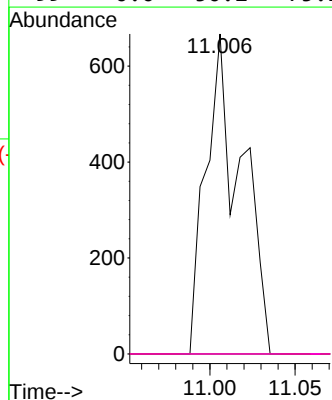
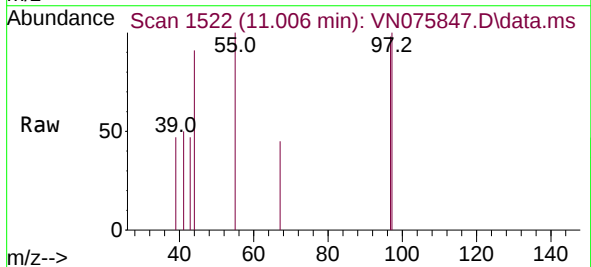
Instrument :
MSVOA_N
ClientSampleId :
12-15-2022-HOWE-AVE

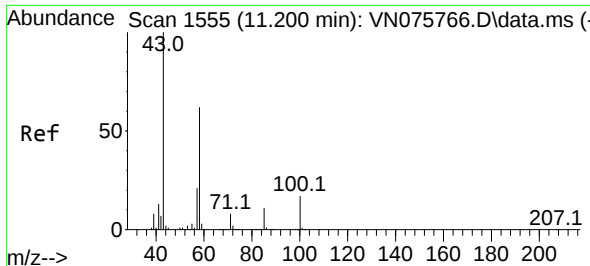
Tgt Ion: 98 Resp: 673297
Ion Ratio Lower Upper
98 100
100 65.3 52.1 78.1



#55
1,1,2-Trichloroethane
Concen: 0.252 ug/l
RT: 11.006 min Scan# 1522
Delta R.T. -0.012 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

Tgt Ion: 97 Resp: 967
Ion Ratio Lower Upper
97 100
83 0.0 65.0 97.4#
85 0.0 43.0 64.6#
99 0.0 50.2 75.2#

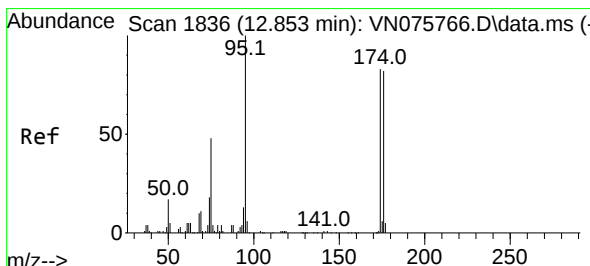
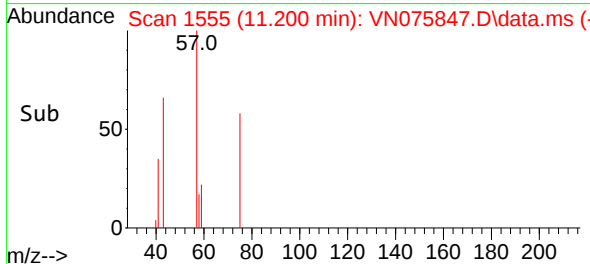
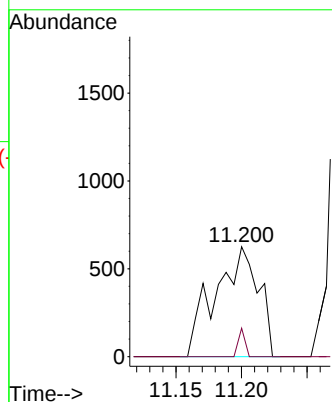
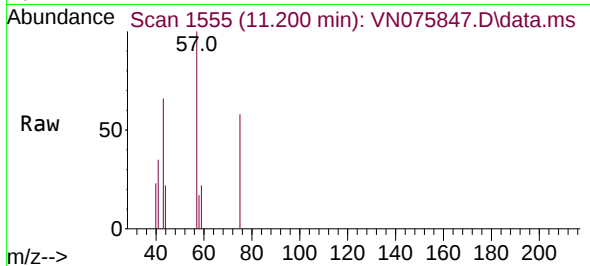




#59
2-Hexanone
Concen: 0.506 ug/l
RT: 11.200 min Scan# 111
Delta R.T. 0.000 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

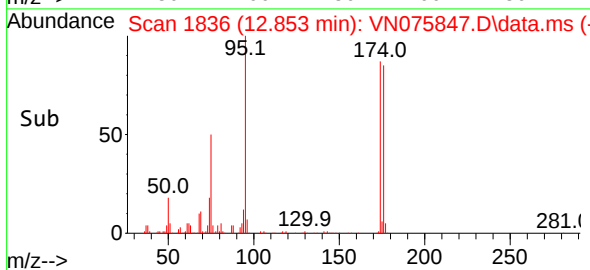
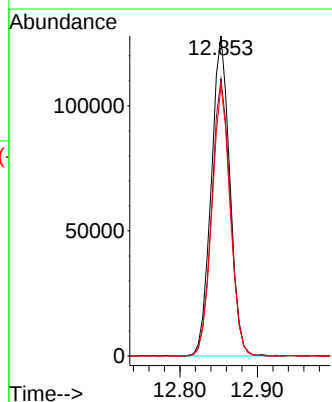
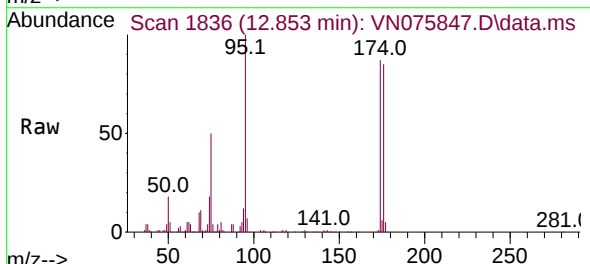
Instrument :
MSVOA_N
ClientSampleId :
12-15-2022-HOWE-AVE

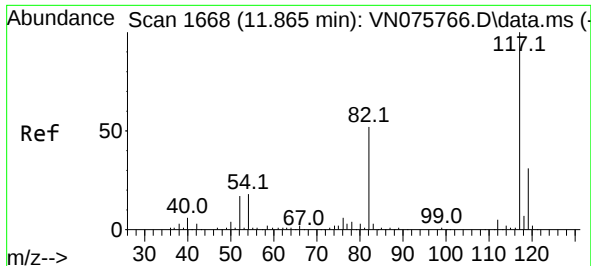
Tgt Ion: 43 Resp: 1439
Ion Ratio Lower Upper
43 100
58 4.0 30.6 92.0#



#62
4-Bromofluorobenzene
Concen: 46.849 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

Tgt Ion: 95 Resp: 212746
Ion Ratio Lower Upper
95 100
174 86.7 0.0 171.6
176 83.1 0.0 169.2

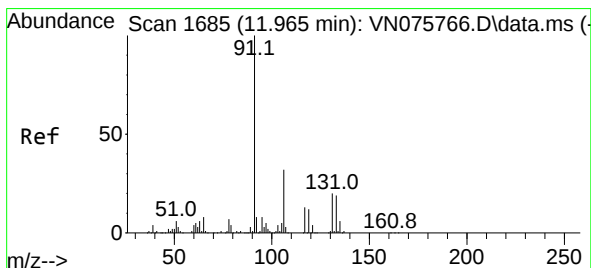
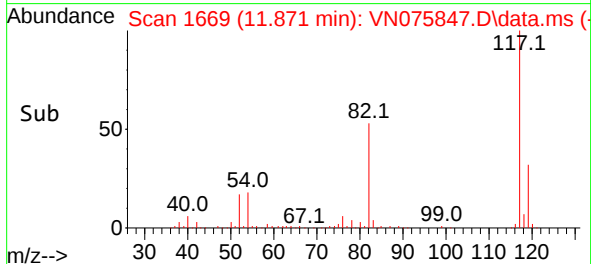
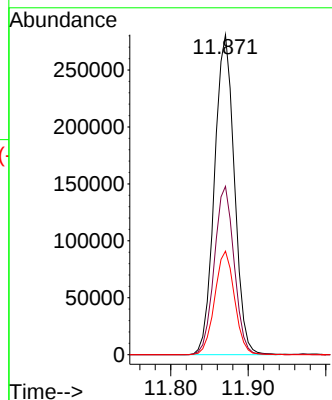
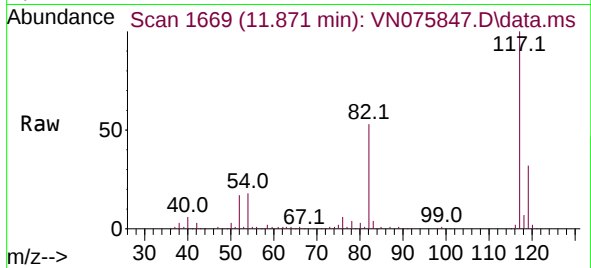




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

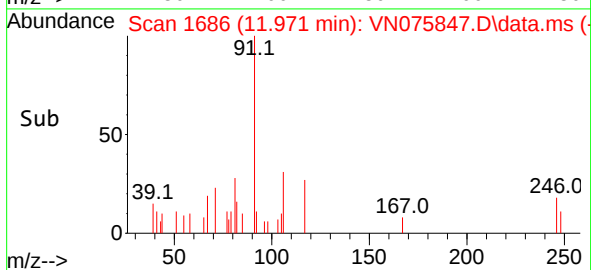
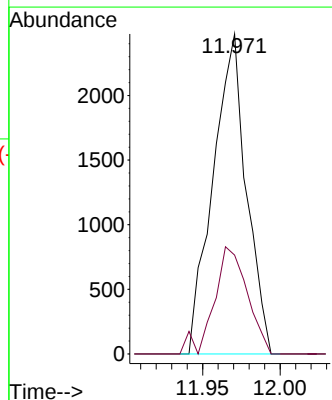
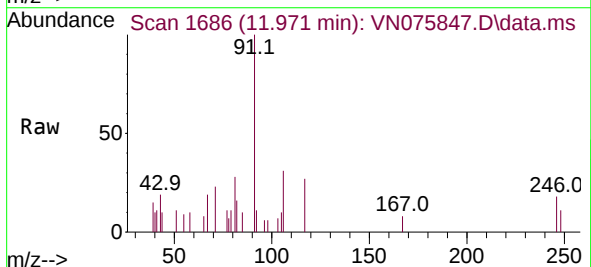
Instrument :
MSVOA_N
ClientSampleId :
12-15-2022-HOWE-AVE

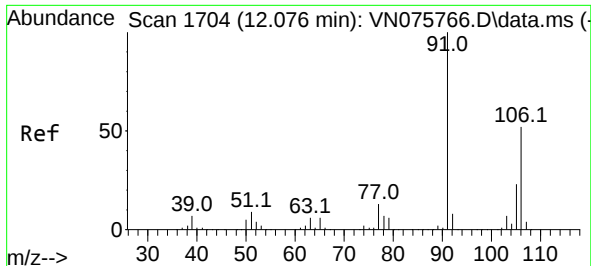
Tgt Ion:117 Resp: 499953
Ion Ratio Lower Upper
117 100
82 52.6 41.3 61.9
119 32.3 24.6 37.0



#67
Ethyl Benzene
Concen: 0.214 ug/l
RT: 11.971 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

Tgt Ion: 91 Resp: 3707
Ion Ratio Lower Upper
91 100
106 30.9 25.7 38.5

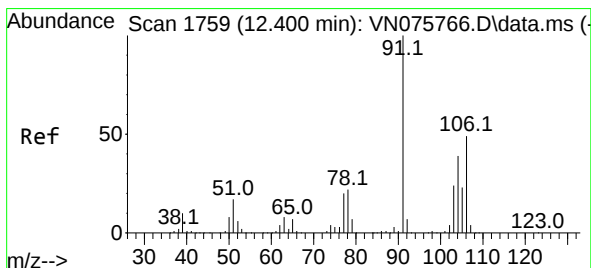
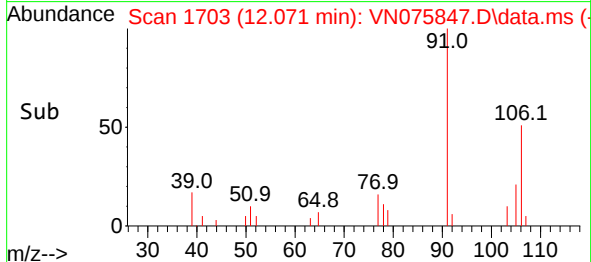
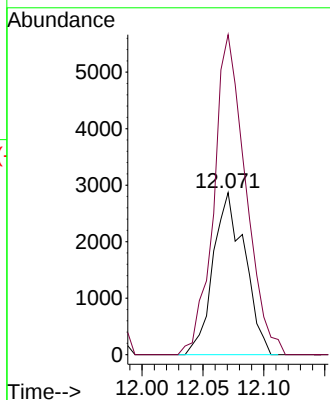
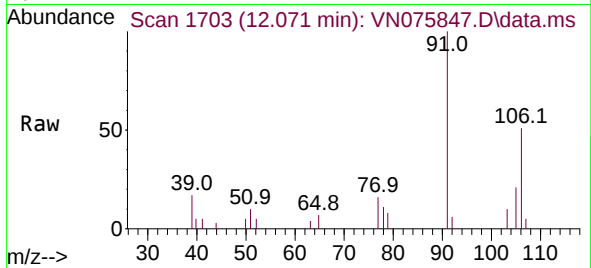




#68
m/p-Xylenes
Concen: 0.757 ug/l
RT: 12.071 min Scan# 1703
Delta R.T. -0.006 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

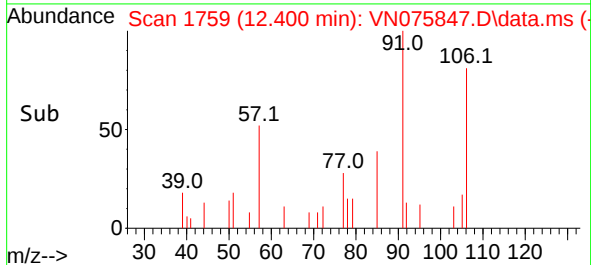
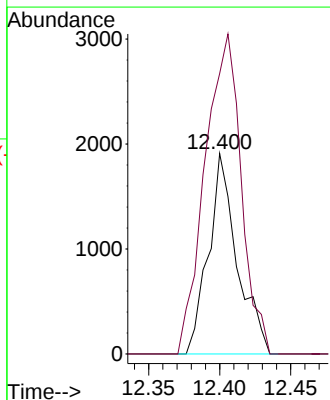
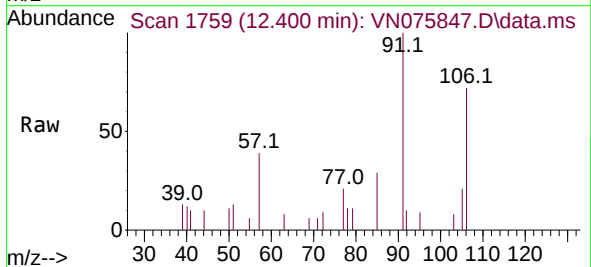
Instrument :
MSVOA_N
ClientSampleId :
12-15-2022-HOWE-AVE

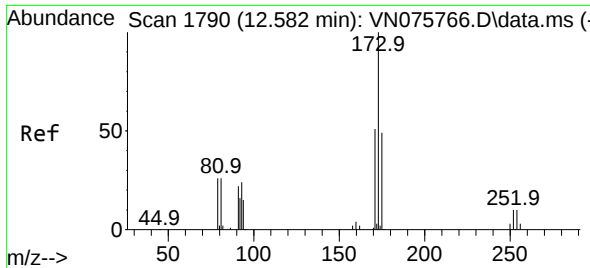
Tgt Ion:106 Resp: 5191
Ion Ratio Lower Upper
106 100
91 198.7 156.6 235.0



#69
o-Xylene
Concen: 0.395 ug/l
RT: 12.400 min Scan# 1759
Delta R.T. 0.000 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

Tgt Ion:106 Resp: 2680
Ion Ratio Lower Upper
106 100
91 201.6 103.8 311.6





#71

Bromoform

Concen: 0.688 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.271 min

Lab File: VN075847.D

Acq: 16 Dec 2022 15:02

Instrument :

MSVOA_N

ClientSampleId :

12-15-2022-HOWE-AVE

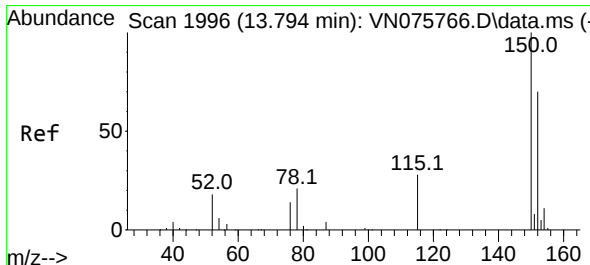
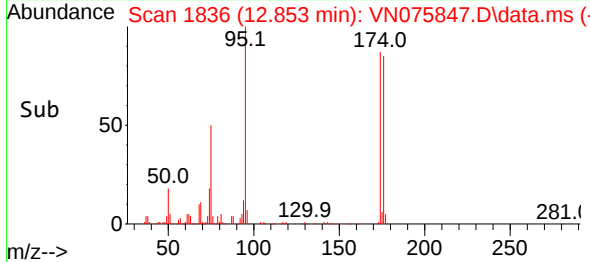
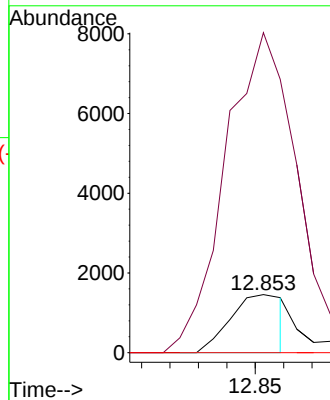
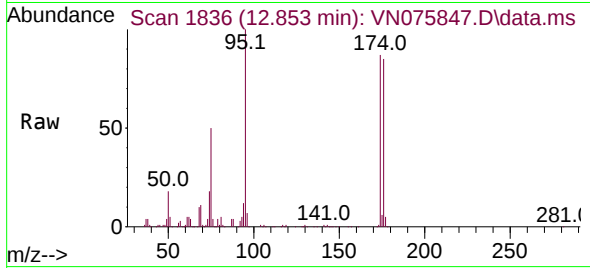
Tgt Ion:173 Resp: 1904

Ion Ratio Lower Upper

173 100

175 585.9 24.3 72.8#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 1996

Delta R.T. 0.000 min

Lab File: VN075847.D

Acq: 16 Dec 2022 15:02

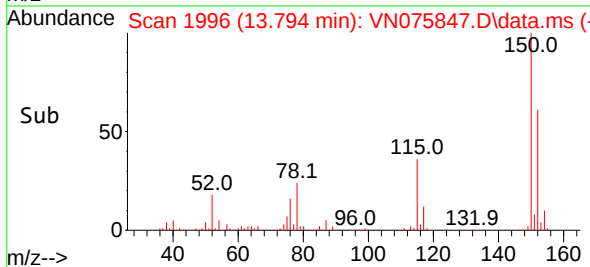
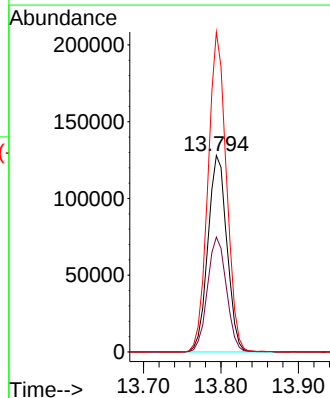
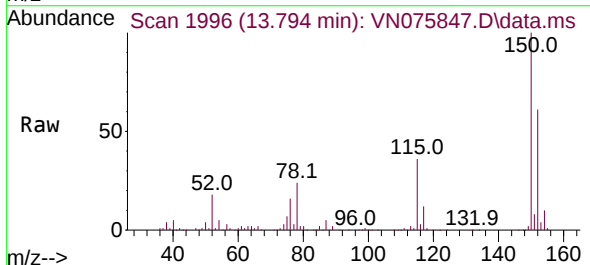
Tgt Ion:152 Resp: 218060

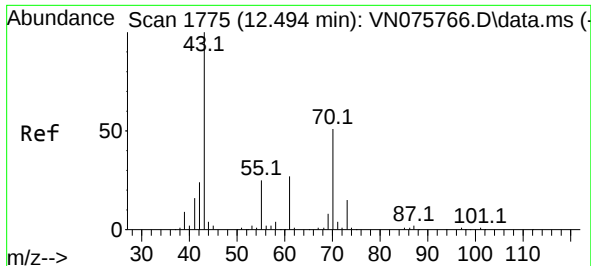
Ion Ratio Lower Upper

152 100

115 58.4 29.1 87.4

150 157.5 0.0 347.0

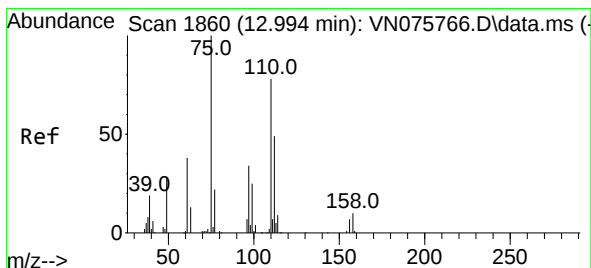
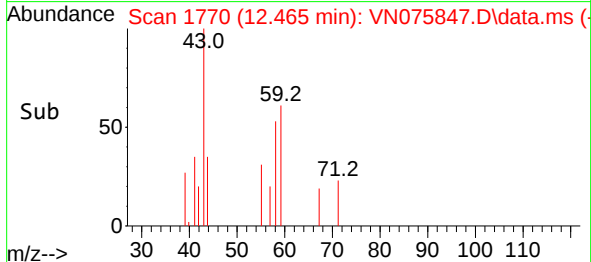
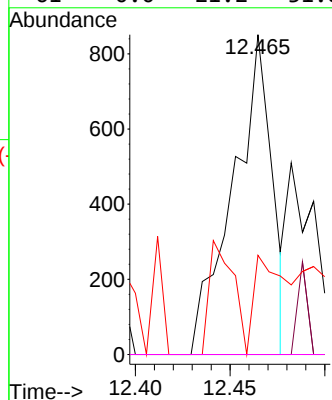
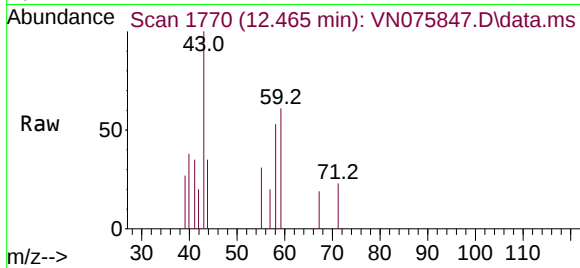




#74
N-amy1 acetate
Concen: 0.264 ug/l
RT: 12.465 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

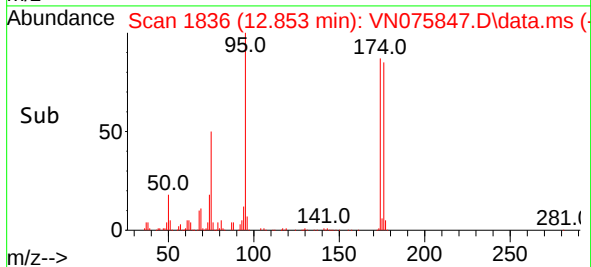
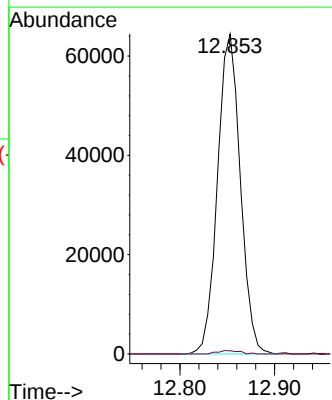
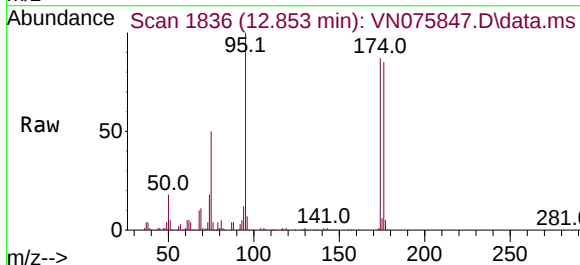
Instrument :
MSVOA_N
ClientSampleId :
12-15-2022-HOWE-AVE

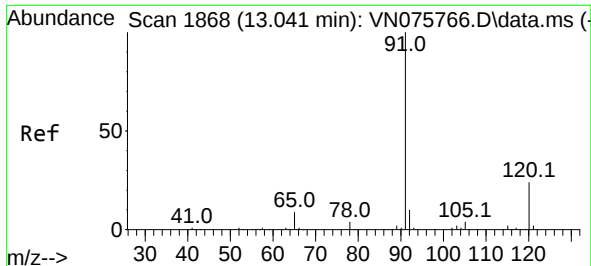
Tgt Ion: 43 Resp: 1219
Ion Ratio Lower Upper
43 100
70 0.0 41.4 62.0#
55 25.4 21.3 31.9
61 0.0 21.2 31.8#



#76
1,2,3-Trichloropropane
Concen: 24.543 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

Tgt Ion: 75 Resp: 107881
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#

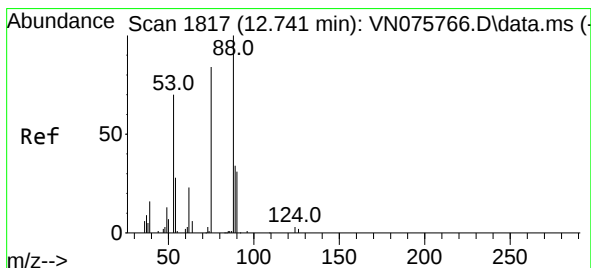
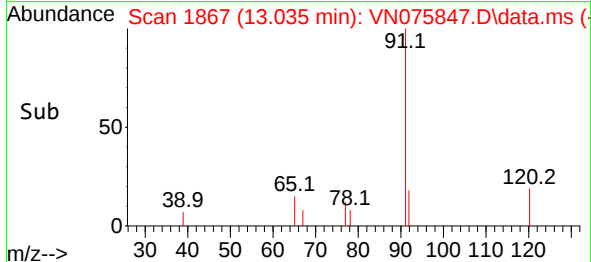
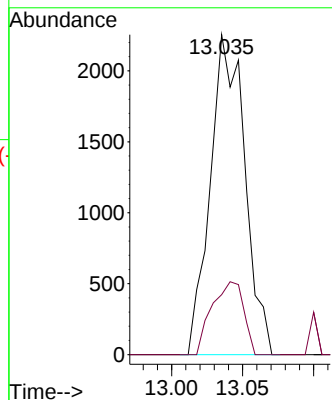
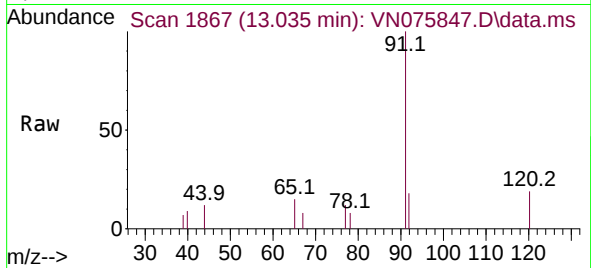




#78
n-propylbenzene
Concen: 0.219 ug/l
RT: 13.035 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

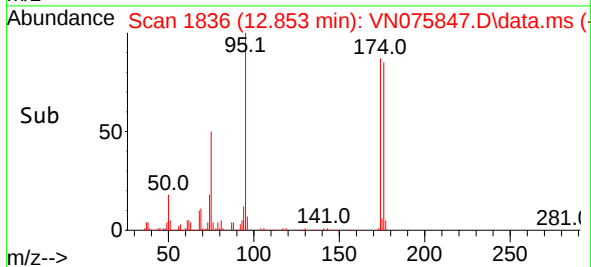
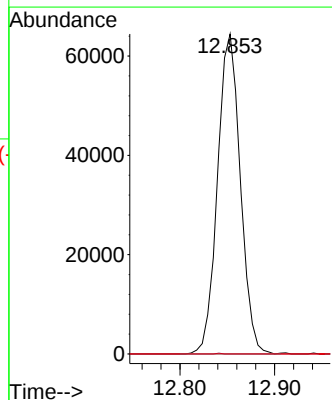
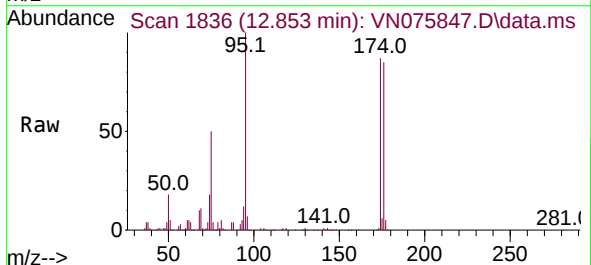
Instrument :
MSVOA_N
ClientSampleId :
12-15-2022-HOWE-AVE

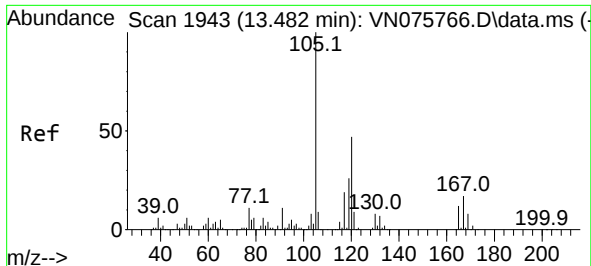
Tgt Ion: 91 Resp: 3808
Ion Ratio Lower Upper
91 100
120 21.0 12.0 36.1



#81
trans-1,4-Dichloro-2-butene
Concen: 88.343 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

Tgt Ion: 75 Resp: 107881
Ion Ratio Lower Upper
75 100
53 0.1 73.8 110.6#
89 0.0 39.5 59.3#

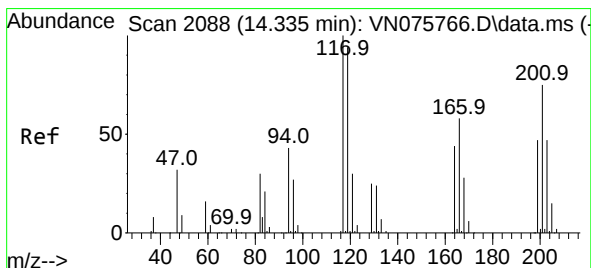
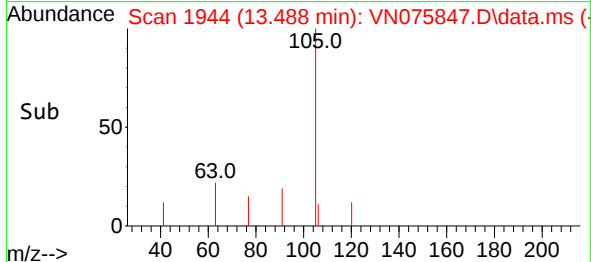
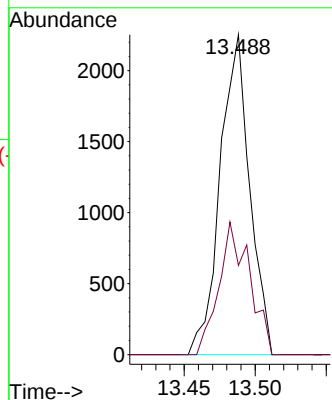
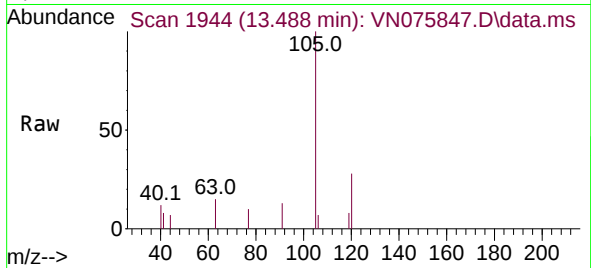




#84
1,2,4-Trimethylbenzene
Concen: 0.249 ug/l
RT: 13.488 min Scan# 1944
Delta R.T. 0.006 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

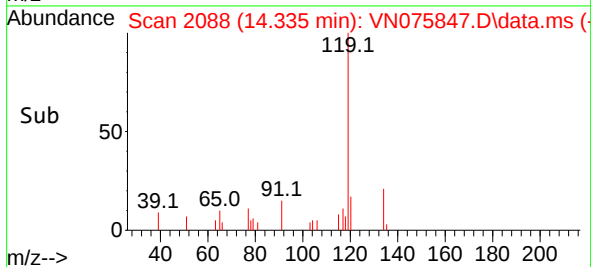
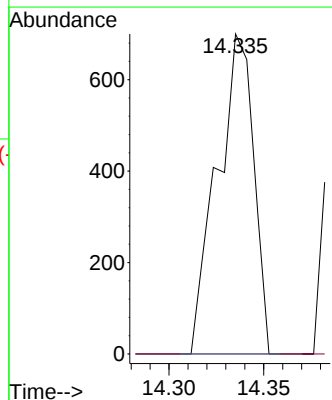
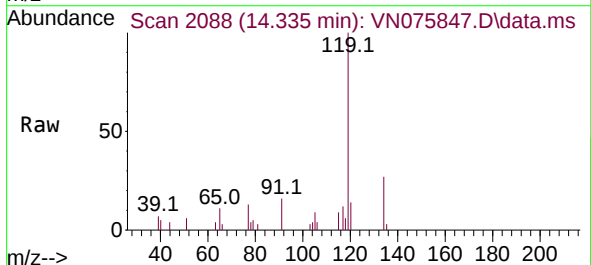
Instrument :
MSVOA_N
ClientSampleId :
12-15-2022-HOWE-AVE

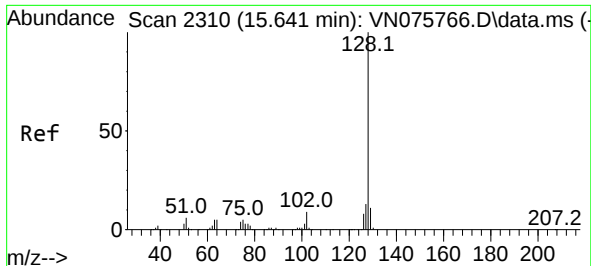
Tgt Ion:105 Resp: 3255
Ion Ratio Lower Upper
105 100
120 43.1 23.3 69.8



#90
Hexachloroethane
Concen: 0.393 ug/l
RT: 14.335 min Scan# 2088
Delta R.T. 0.000 min
Lab File: VN075847.D
Acq: 16 Dec 2022 15:02

Tgt Ion:117 Resp: 938
Ion Ratio Lower Upper
117 100
201 0.0 38.0 114.1#





#95

Naphthalene

Concen: 2.740 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN075847.D

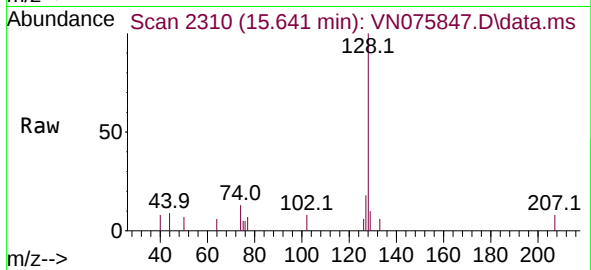
Acq: 16 Dec 2022 15:02

Instrument :

MSVOA_N

ClientSampleId :

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Tgt Ion:128 Resp: 6980

Ion Ratio Lower Upper

128 100

127 6.9 10.4 15.6#

129 13.3 8.7 13.1#

