

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122822\
 Data File : VN076007.D
 Acq On : 28 Dec 2022 18:08
 Operator : JC\MD
 Sample : N6213-09 100X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-9

Quant Time: Dec 29 04:55:33 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)

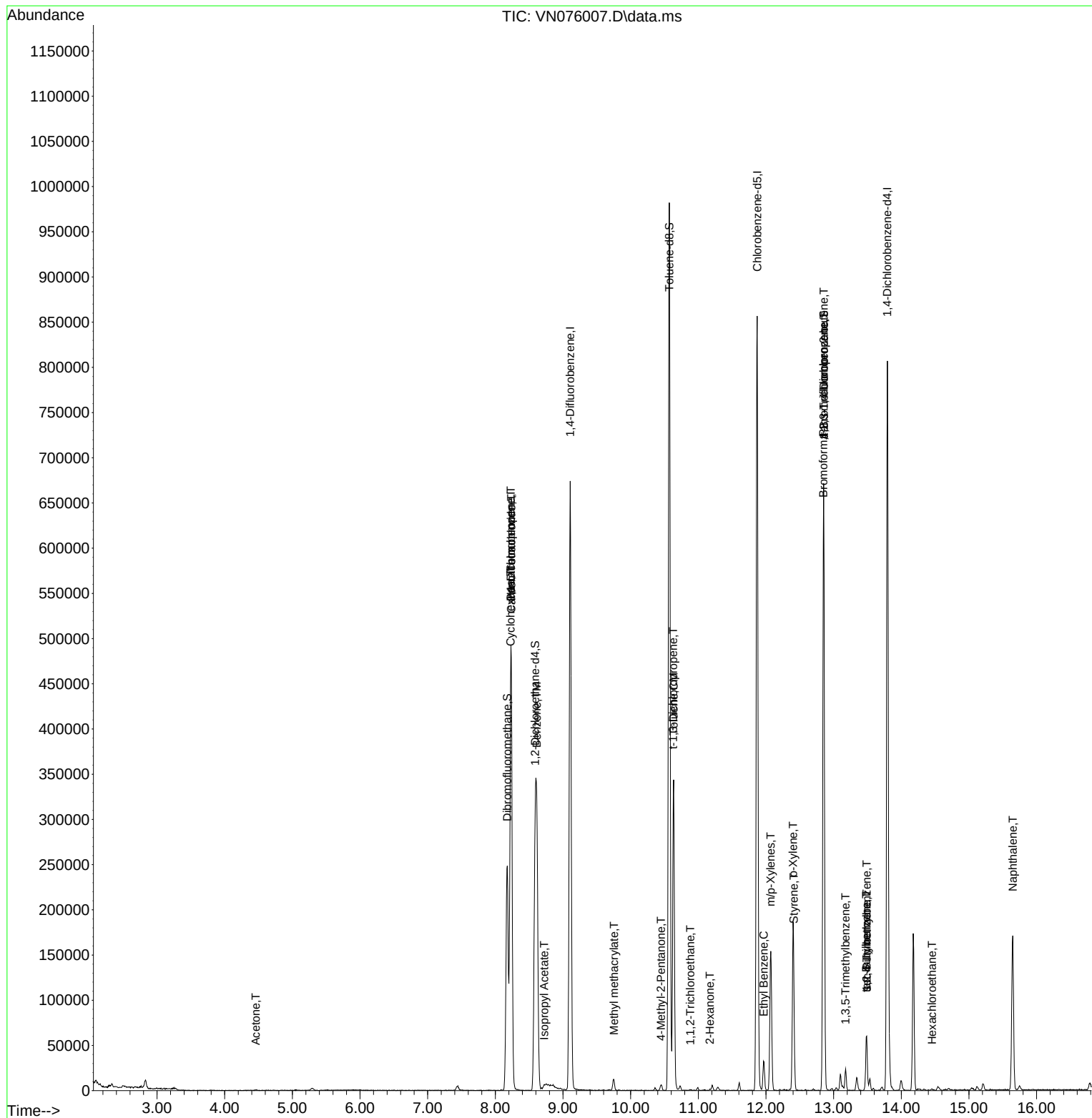
Internal Standards						
1) Pentafluorobenzene	8.230	168	390749	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	617486	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	535779	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	234302	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	193128	45.431	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.860%		
35) Dibromofluoromethane	8.177	113	179121	46.841	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.680%		
50) Toluene-d8	10.571	98	702866	49.160	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.320%		
62) 4-Bromofluorobenzene	12.853	95	226503	47.831	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.660%		
Target Compounds					Qvalue	
16) Acetone	4.459	43	1124	0.767	ug/l	92
20) Methylene Chloride	5.295	84	1995	Below Cal	#	91
31) Cyclohexane	8.224	56	8153	1.339	ug/l #	13
36) 1,1-Dichloropropene	8.230	75	27119	5.339	ug/l #	51
38) Carbon Tetrachloride	8.236	117	38000	6.684	ug/l #	15
40) Benzene	8.612	78	299229	19.092	ug/l	100
43) Isopropyl Acetate	8.724	43	5356	0.796	ug/l #	51
48) Methyl methacrylate	9.753	41	1126	0.371	ug/l #	37
51) 4-Methyl-2-Pentanone	10.447	43	4307	1.058	ug/l	97
52) Toluene	10.635	92	158810	15.558	ug/l	99
53) t-1,3-Dichloropropene	10.629	75	1768	0.326	ug/l #	1
55) 1,1,2-Trichloroethane	10.882	97	825	0.206	ug/l #	16
59) 2-Hexanone	11.171	43	1235	0.416	ug/l #	20
67) Ethyl Benzene	11.965	91	23777	1.281	ug/l	97
68) m/p-Xylenes	12.071	106	53409	7.271	ug/l	99
69) o-Xylene	12.400	106	52338	7.200	ug/l	98
70) Styrene	12.412	104	14685	1.270	ug/l #	49
71) Bromoform	12.847	173	1515	0.511	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	113620	24.057	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.176	105	12504	0.882	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.853	75	113620	86.593	ug/l #	12
83) tert-Butylbenzene	13.482	119	4480	0.359	ug/l #	59
84) 1,2,4-Trimethylbenzene	13.488	105	36898	2.625	ug/l	98
85) sec-Butylbenzene	13.488	105	36898	2.140	ug/l #	56
90) Hexachloroethane	14.453	117	807	0.314	ug/l #	11
95) Naphthalene	15.647	128	168668	14.829	ug/l	99

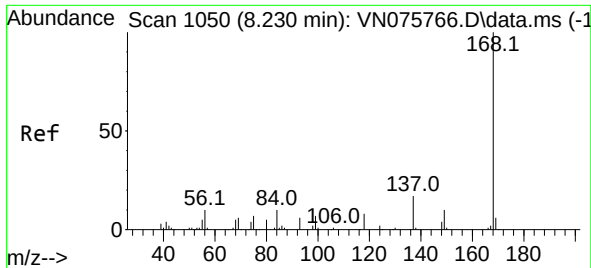
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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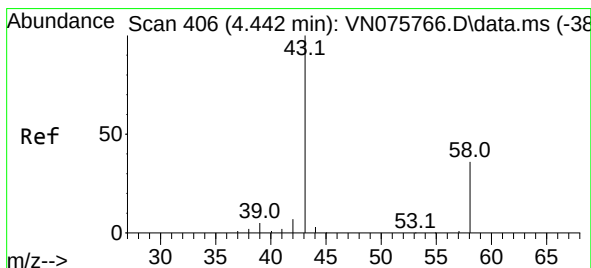
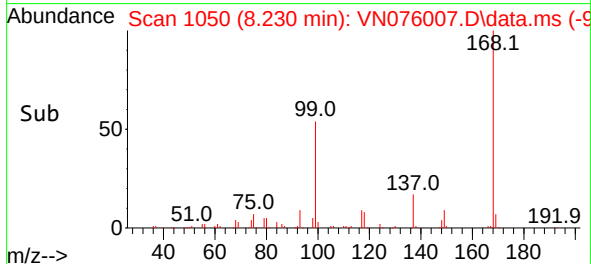
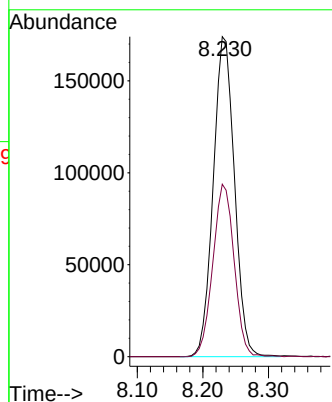
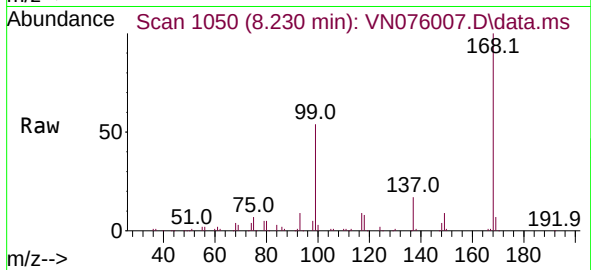




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN076007.D
Acq: 28 Dec 2022 18:08

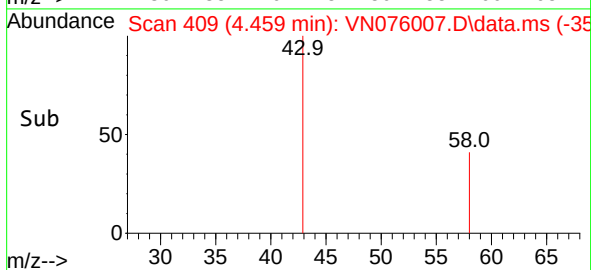
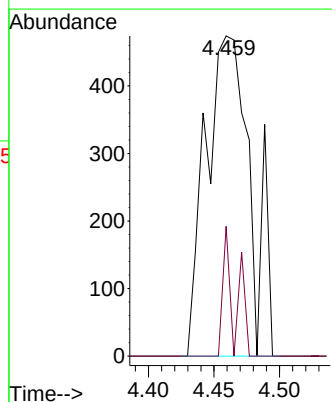
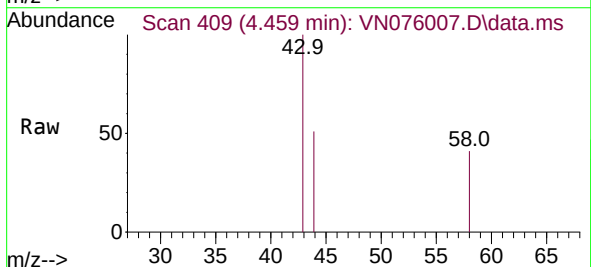
Instrument :
MSVOA_N
ClientSampleId :
SB-9

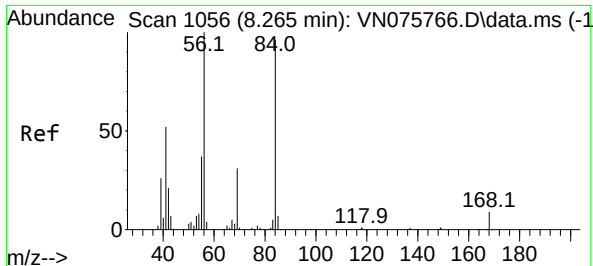
Tgt Ion:168 Resp: 390749
Ion Ratio Lower Upper
168 100
99 53.9 44.2 66.4



#16
Acetone
Concen: 0.767 ug/l
RT: 4.459 min Scan# 409
Delta R.T. 0.018 min
Lab File: VN076007.D
Acq: 28 Dec 2022 18:08

Tgt Ion: 43 Resp: 1124
Ion Ratio Lower Upper
43 100
58 40.5 28.6 43.0





#31

Cyclohexane

Concen: 1.339 ug/l

RT: 8.224 min Scan# 1049

Delta R.T. -0.041 min

Lab File: VN076007.D

Acq: 28 Dec 2022 18:08

Instrument :

MSVOA_N

ClientSampleId :

SB-9

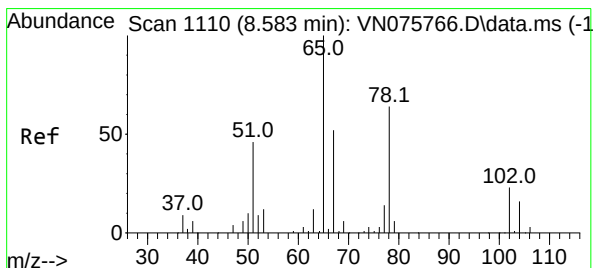
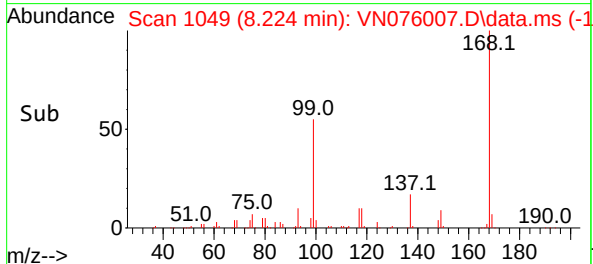
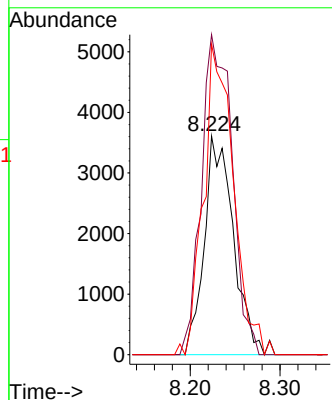
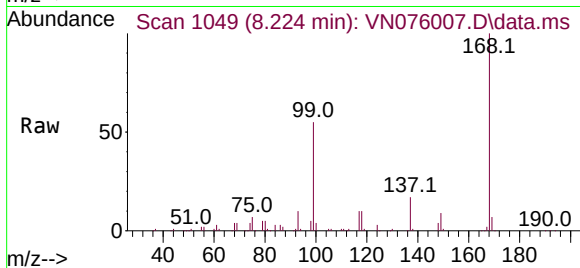
Tgt Ion: 56 Resp: 8153

Ion Ratio Lower Upper

56 100

69 146.4 24.7 37.1#

84 142.1 76.5 114.7#



#33

1,2-Dichloroethane-d4

Concen: 45.431 ug/l

RT: 8.588 min Scan# 1111

Delta R.T. 0.006 min

Lab File: VN076007.D

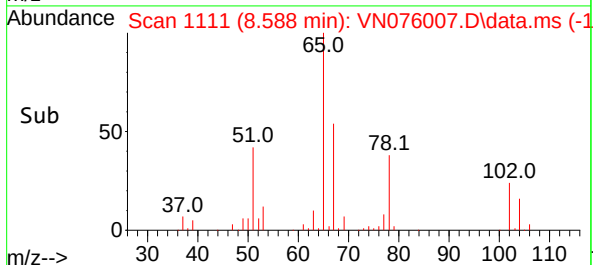
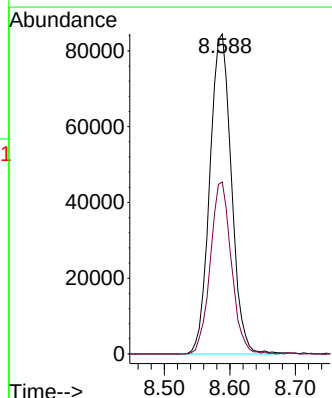
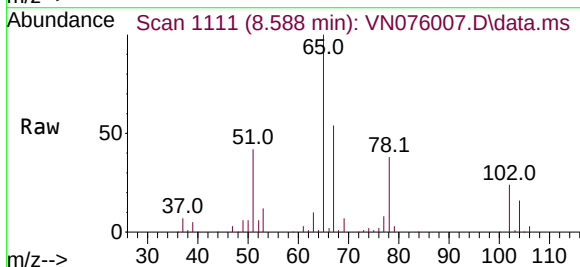
Acq: 28 Dec 2022 18:08

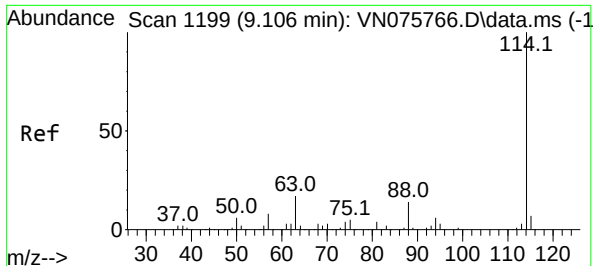
Tgt Ion: 65 Resp: 193128

Ion Ratio Lower Upper

65 100

67 52.4 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: VN076007.D

Acq: 28 Dec 2022 18:08

Instrument :

MSVOA_N

ClientSampleId :

SB-9

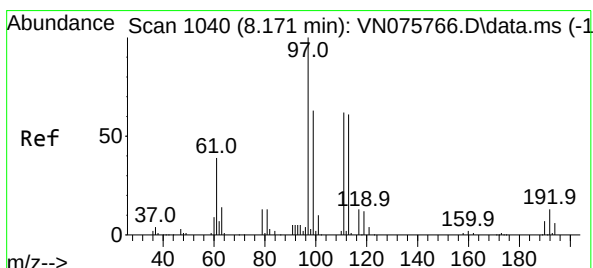
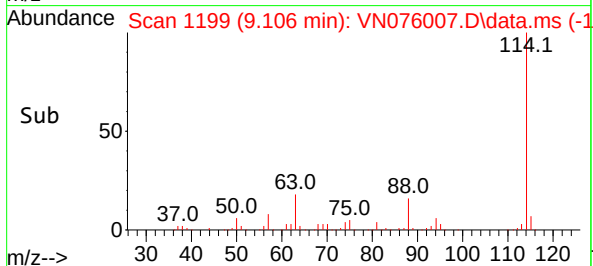
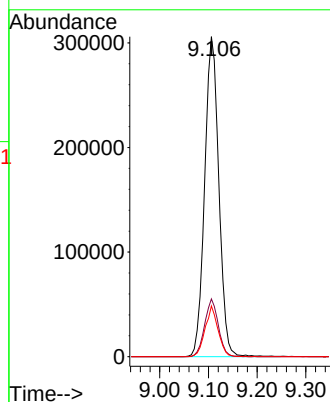
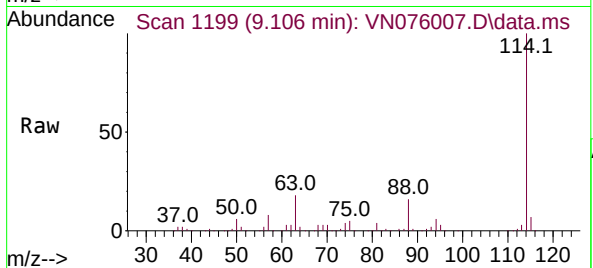
Tgt Ion:114 Resp: 617486

Ion Ratio Lower Upper

114 100

63 18.1 0.0 34.4

88 15.9 0.0 28.8



#35

Dibromofluoromethane

Concen: 46.841 ug/l

RT: 8.177 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VN076007.D

Acq: 28 Dec 2022 18:08

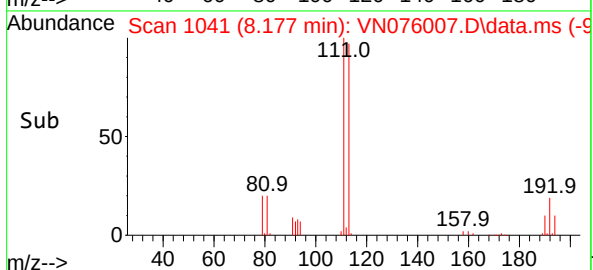
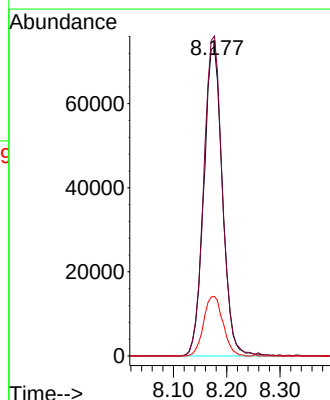
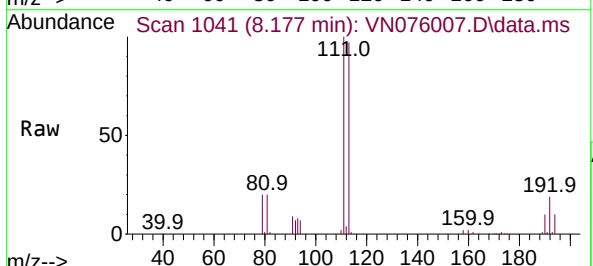
Tgt Ion:113 Resp: 179121

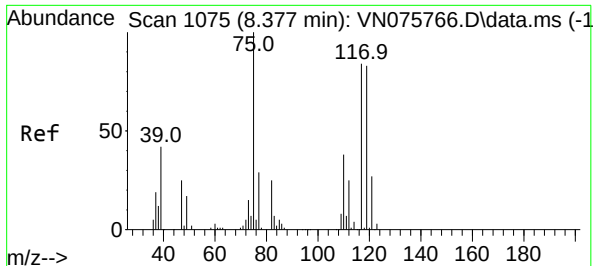
Ion Ratio Lower Upper

113 100

111 102.3 83.4 125.2

192 20.0 16.1 24.1





#36

1,1-Dichloropropene

Concen: 5.339 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN076007.D

Acq: 28 Dec 2022 18:08

Instrument :

MSVOA_N

ClientSampleId :

SB-9

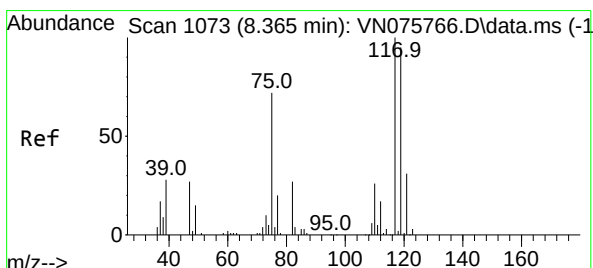
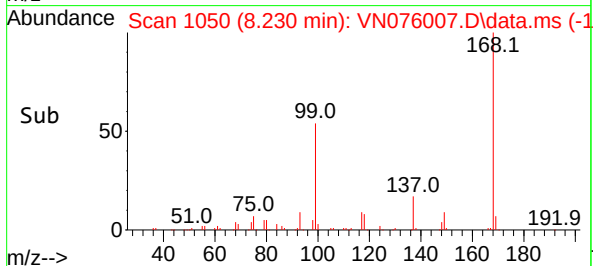
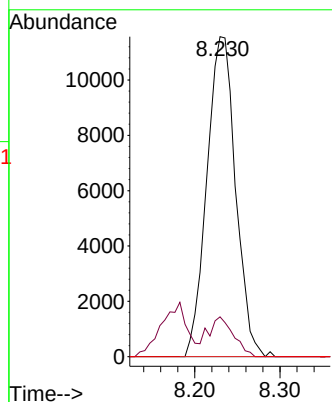
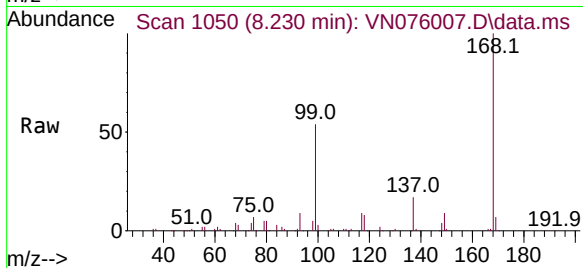
Tgt Ion: 75 Resp: 27119

Ion Ratio Lower Upper

75 100

110 10.8 18.8 56.4#

77 0.0 24.1 36.1#



#38

Carbon Tetrachloride

Concen: 6.684 ug/l

RT: 8.236 min Scan# 1051

Delta R.T. -0.129 min

Lab File: VN076007.D

Acq: 28 Dec 2022 18:08

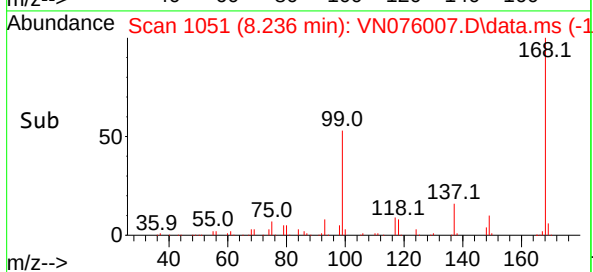
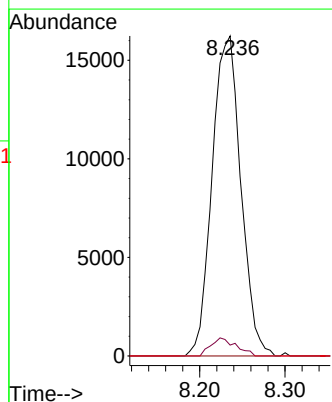
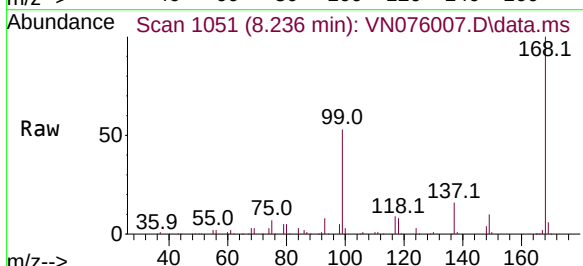
Tgt Ion: 117 Resp: 38000

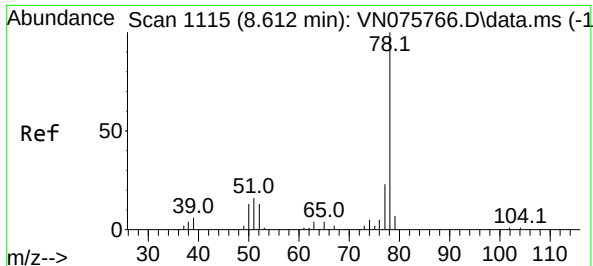
Ion Ratio Lower Upper

117 100

119 3.4 76.1 114.1#

121 0.0 24.5 36.7#





#40

Benzene

Concen: 19.092 ug/l

RT: 8.612 min Scan# 1115

Delta R.T. 0.000 min

Lab File: VN076007.D

Acq: 28 Dec 2022 18:08

Instrument :

MSVOA_N

ClientSampleId :

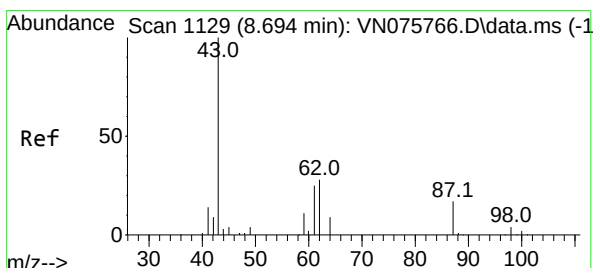
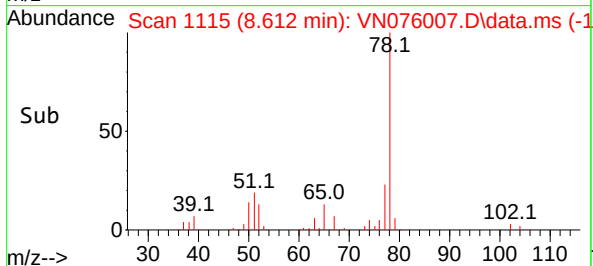
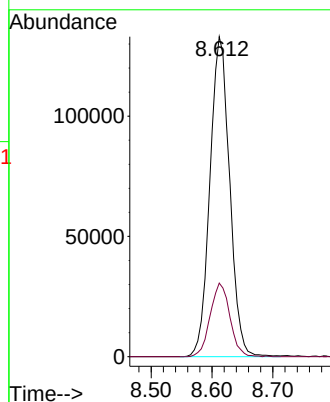
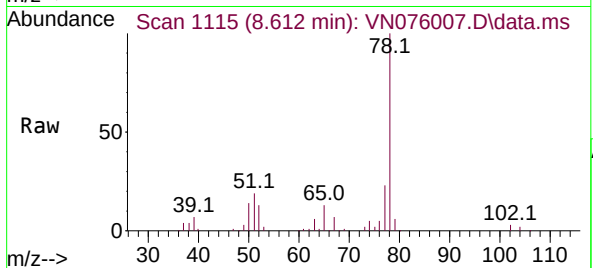
SB-9

Tgt Ion: 78 Resp: 299229

Ion Ratio Lower Upper

78 100

77 23.0 18.5 27.7



#43

Isopropyl Acetate

Concen: 0.796 ug/l

RT: 8.724 min Scan# 1134

Delta R.T. 0.029 min

Lab File: VN076007.D

Acq: 28 Dec 2022 18:08

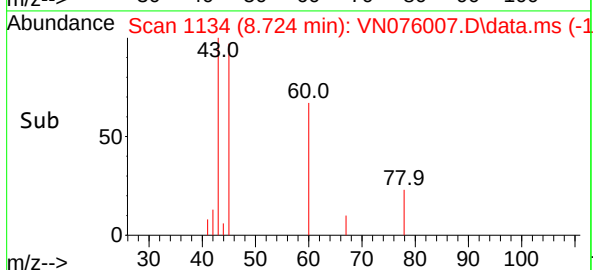
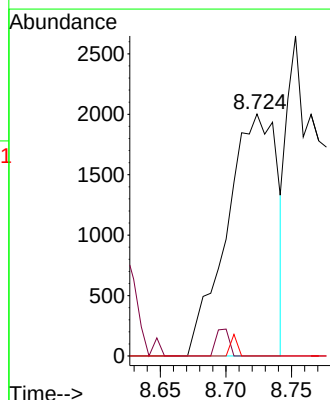
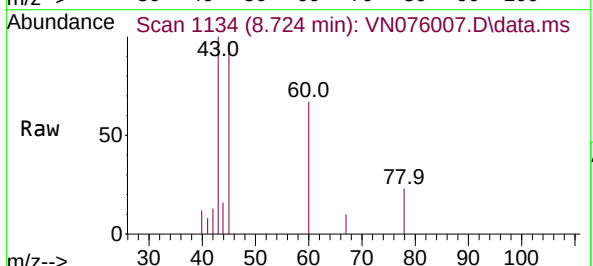
Tgt Ion: 43 Resp: 5356

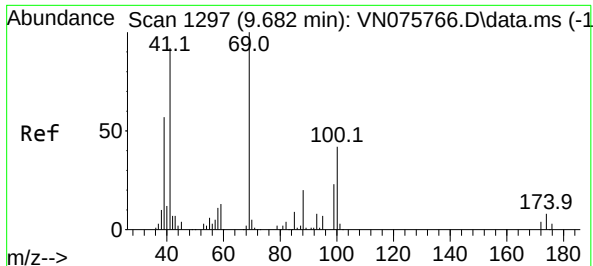
Ion Ratio Lower Upper

43 100

61 0.0 24.2 36.4#

87 1.2 13.3 19.9#





#48

Methyl methacrylate

Concen: 0.371 ug/l

RT: 9.753 min Scan# 1126

Delta R.T. 0.071 min

Lab File: VN076007.D

Acq: 28 Dec 2022 18:08

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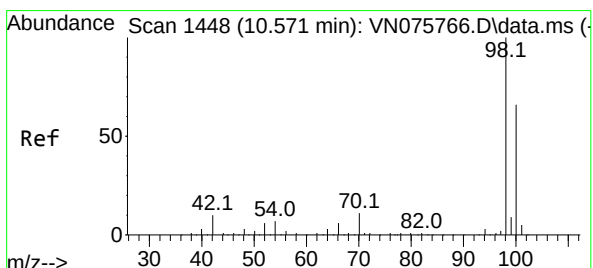
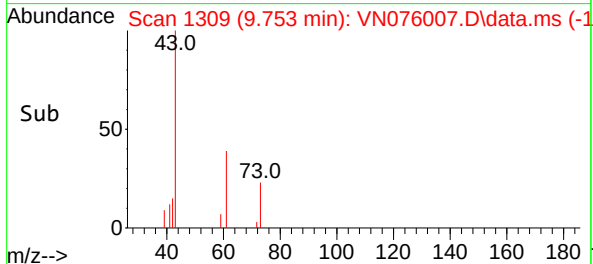
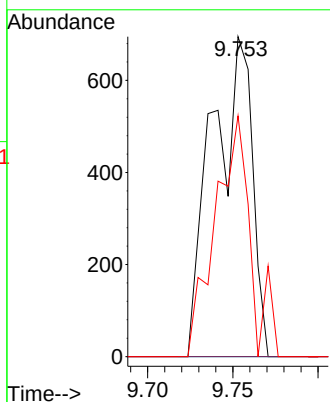
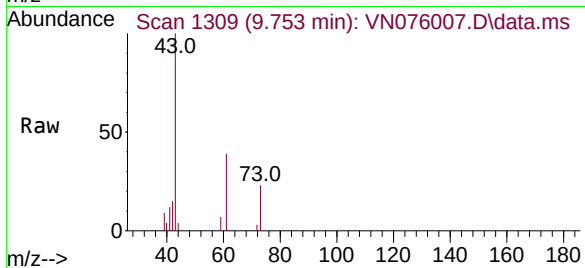
Tgt Ion: 41 Resp: 1126

Ion Ratio Lower Upper

41 100

69 0.0 81.9 122.9#

39 66.8 51.6 77.4



#50

Toluene-d8

Concen: 49.160 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. 0.000 min

Lab File: VN076007.D

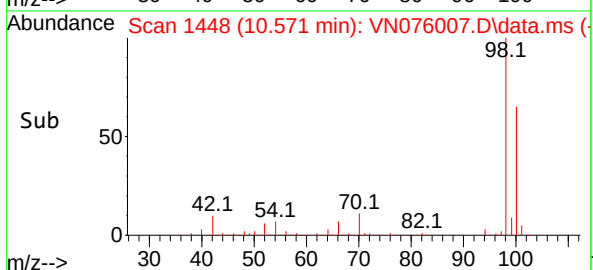
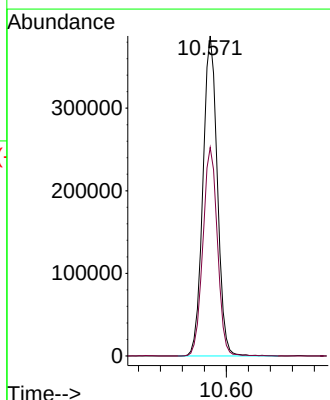
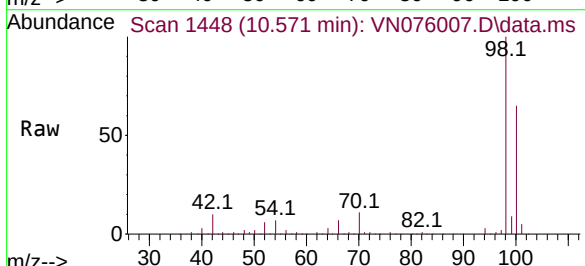
Acq: 28 Dec 2022 18:08

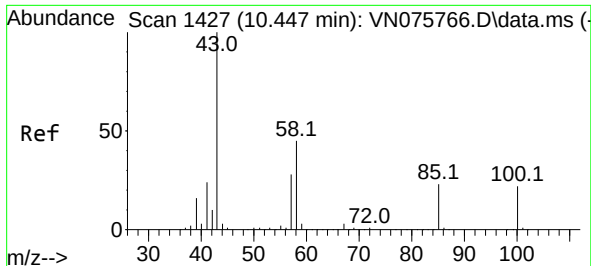
Tgt Ion: 98 Resp: 702866

Ion Ratio Lower Upper

98 100

100 65.8 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 1.058 ug/l

RT: 10.447 min Scan# 1427

Delta R.T. 0.000 min

Lab File: VN076007.D

Acq: 28 Dec 2022 18:08

Instrument :

MSVOA_N

ClientSampleId :

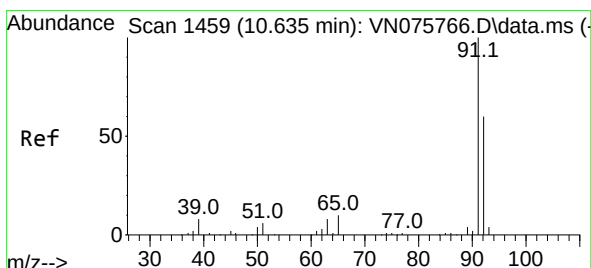
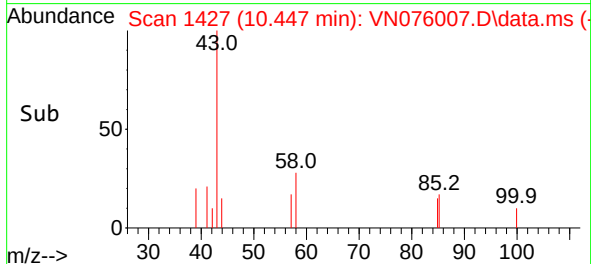
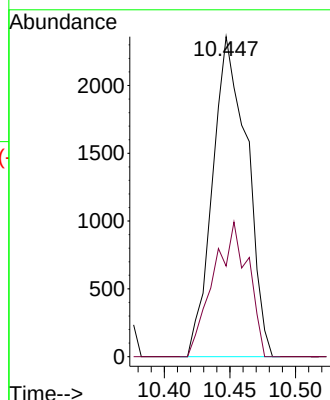
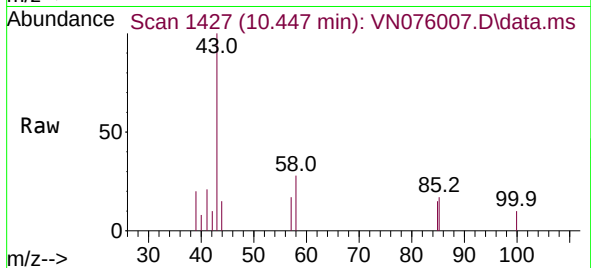
SB-9

Tgt Ion: 43 Resp: 4307

Ion Ratio Lower Upper

43 100

58 42.4 35.5 53.3



#52

Toluene

Concen: 15.558 ug/l

RT: 10.635 min Scan# 1459

Delta R.T. 0.000 min

Lab File: VN076007.D

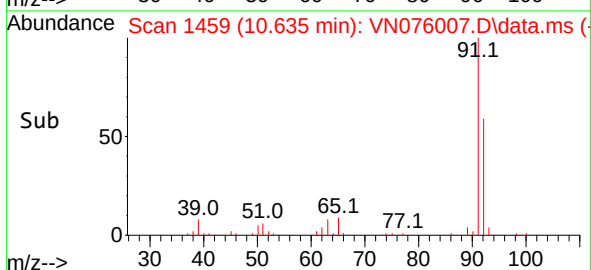
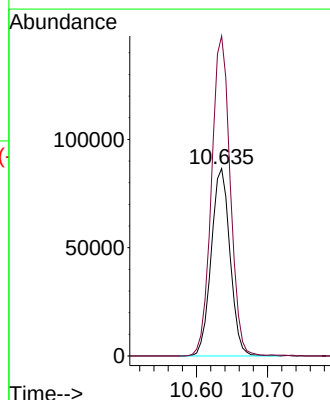
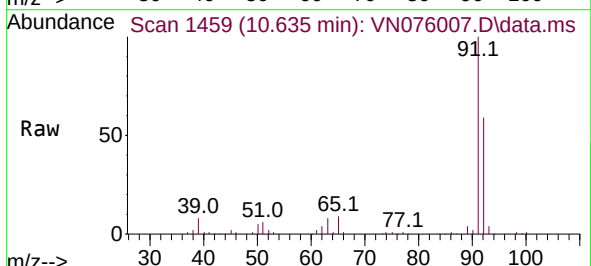
Acq: 28 Dec 2022 18:08

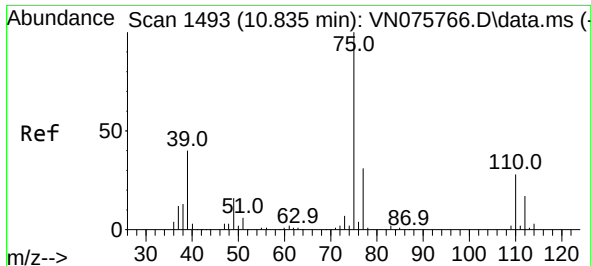
Tgt Ion: 92 Resp: 158810

Ion Ratio Lower Upper

92 100

91 170.2 137.3 205.9

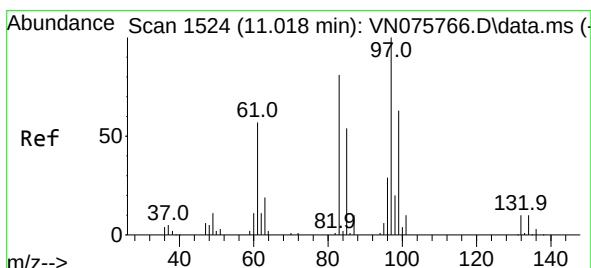
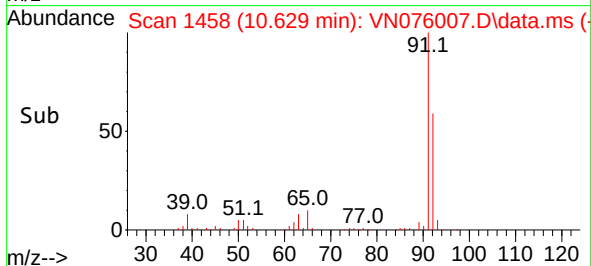
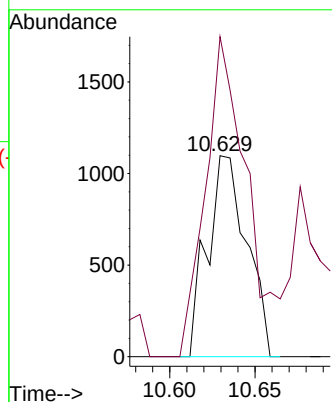
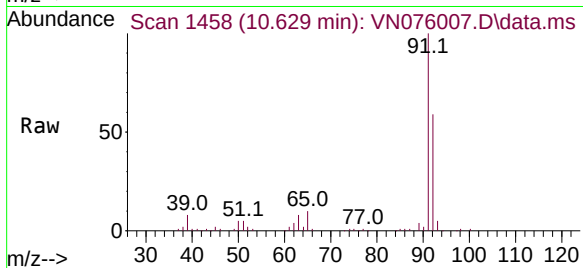




#53
t-1,3-Dichloropropene
Concen: 0.326 ug/l
RT: 10.629 min Scan# 1493
Delta R.T. -0.206 min
Lab File: VN076007.D
Acq: 28 Dec 2022 18:08

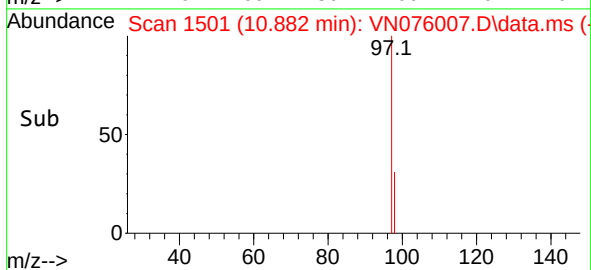
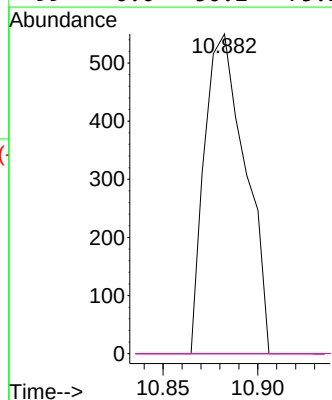
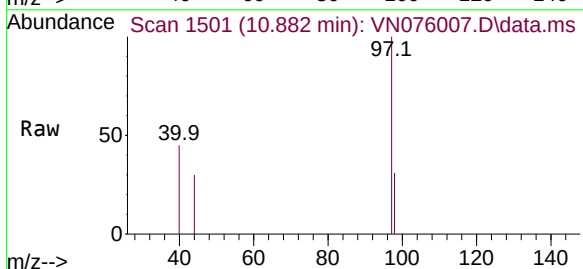
Instrument :
MSVOA_N
ClientSampleId :
SB-9

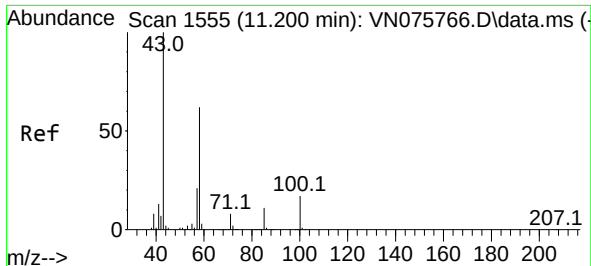
Tgt Ion: 75 Resp: 1768
Ion Ratio Lower Upper
75 100
77 159.3 24.9 37.3#



#55
1,1,2-Trichloroethane
Concen: 0.206 ug/l
RT: 10.882 min Scan# 1501
Delta R.T. -0.135 min
Lab File: VN076007.D
Acq: 28 Dec 2022 18:08

Tgt Ion: 97 Resp: 825
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#

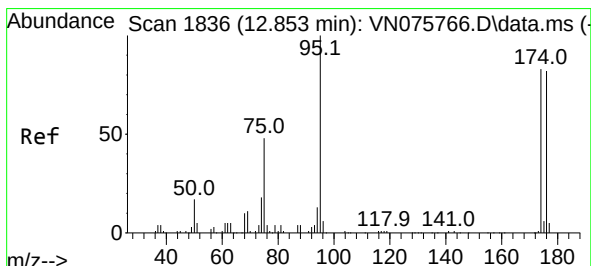
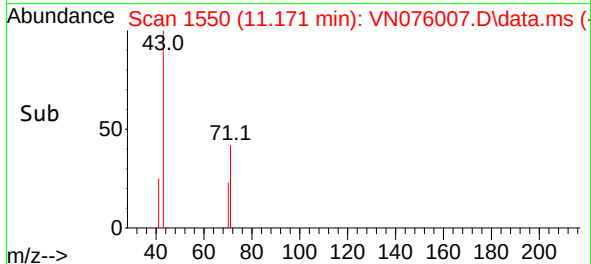
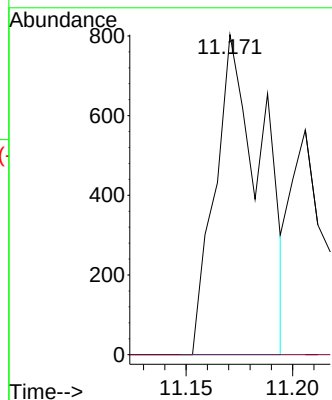
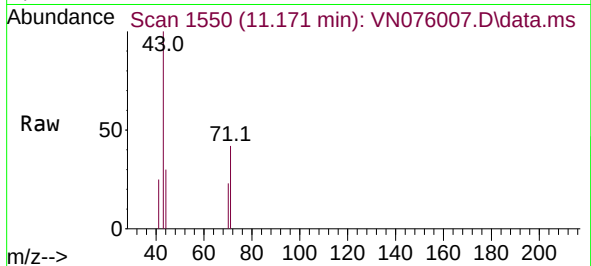




#59
2-Hexanone
Concen: 0.416 ug/l
RT: 11.171 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN076007.D
Acq: 28 Dec 2022 18:08

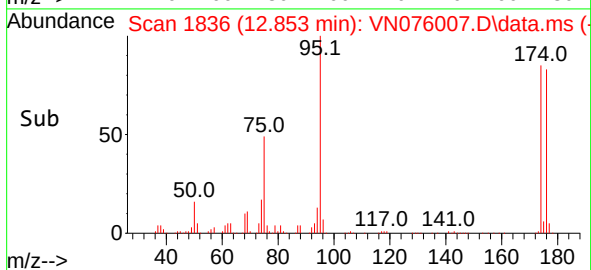
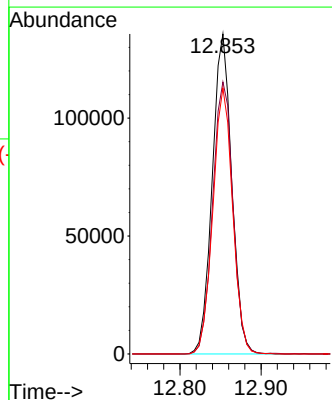
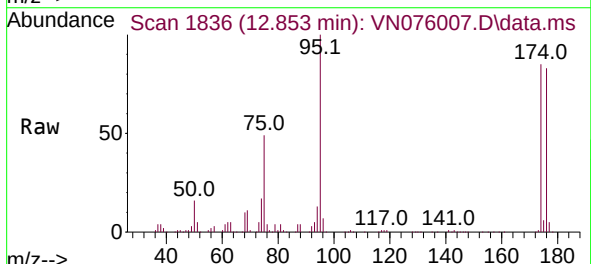
Instrument :
MSVOA_N
ClientSampleId :
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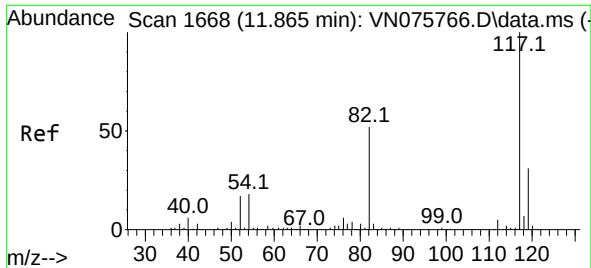
Tgt Ion: 43 Resp: 1235
Ion Ratio Lower Upper
43 100
58 0.0 30.6 92.0#



#62
4-Bromofluorobenzene
Concen: 47.831 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN076007.D
Acq: 28 Dec 2022 18:08

Tgt Ion: 95 Resp: 226503
Ion Ratio Lower Upper
95 100
174 88.1 0.0 171.6
176 84.2 0.0 169.2

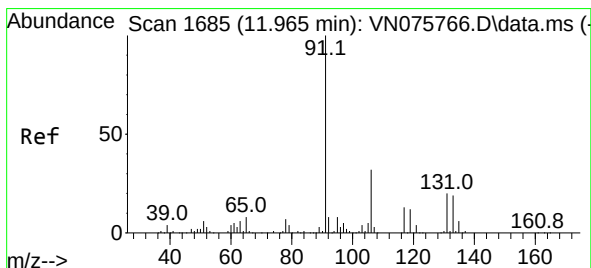
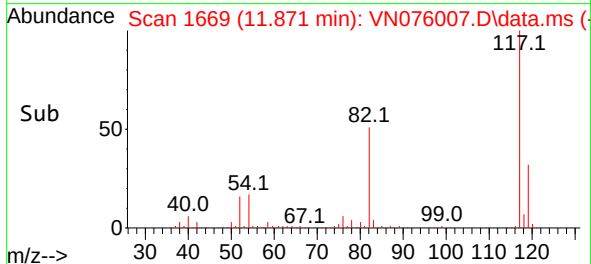
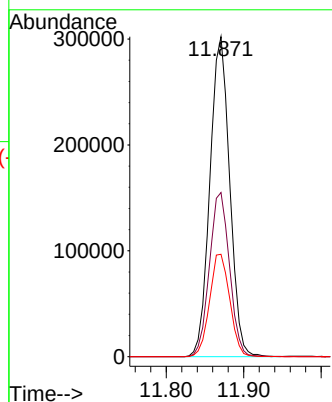
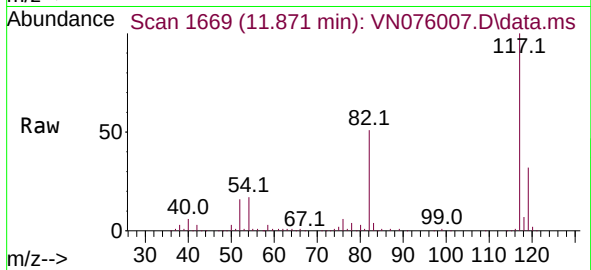




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN076007.D
Acq: 28 Dec 2022 18:08

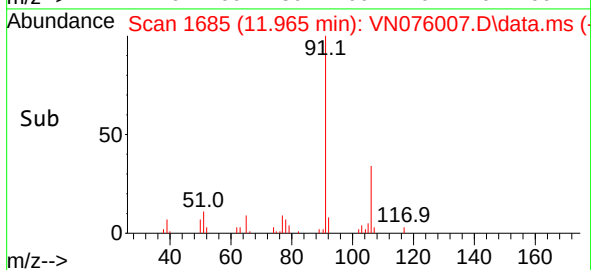
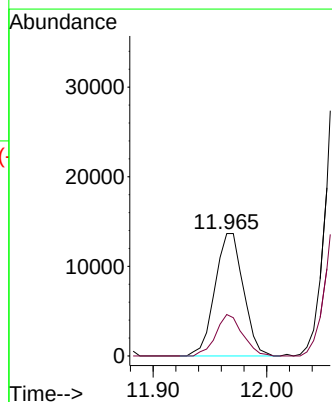
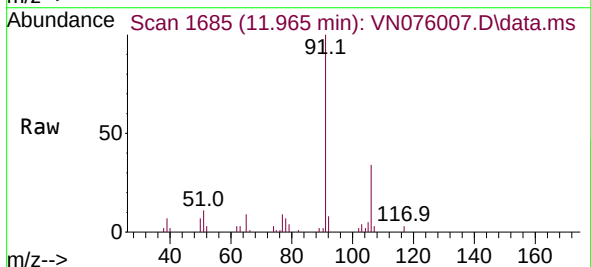
Instrument :
MSVOA_N
ClientSampleId :
SB-9

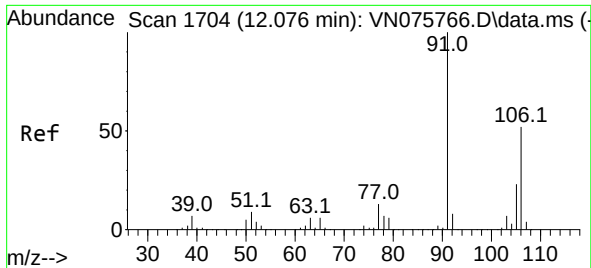
Tgt Ion:117 Resp: 535779
Ion Ratio Lower Upper
117 100
82 51.3 41.3 61.9
119 32.0 24.6 37.0



#67
Ethyl Benzene
Concen: 1.281 ug/l
RT: 11.965 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN076007.D
Acq: 28 Dec 2022 18:08

Tgt Ion: 91 Resp: 23777
Ion Ratio Lower Upper
91 100
106 33.8 25.7 38.5

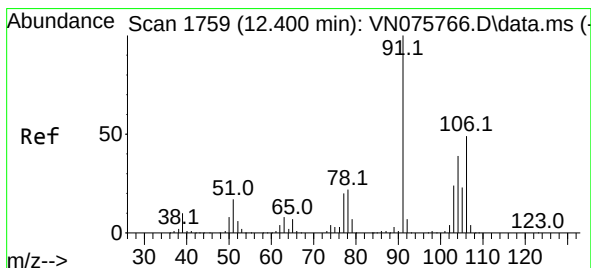
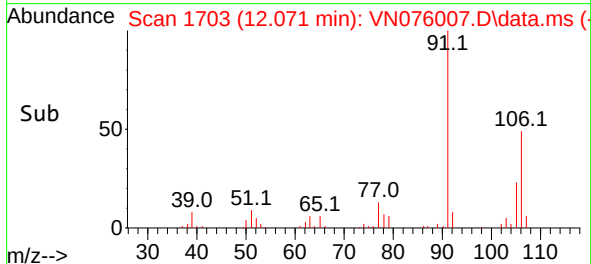
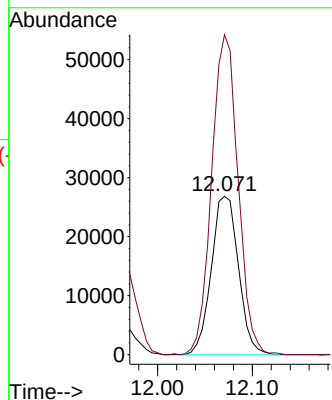
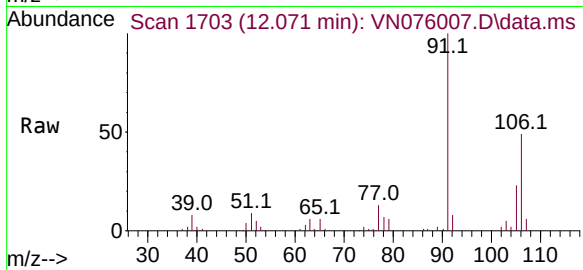




#68
m/p-Xylenes
Concen: 7.271 ug/l
RT: 12.071 min Scan# 1703
Delta R.T. -0.006 min
Lab File: VN076007.D
Acq: 28 Dec 2022 18:08

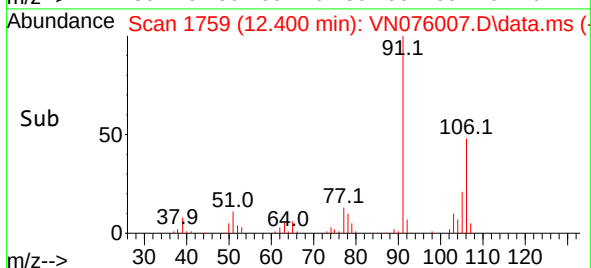
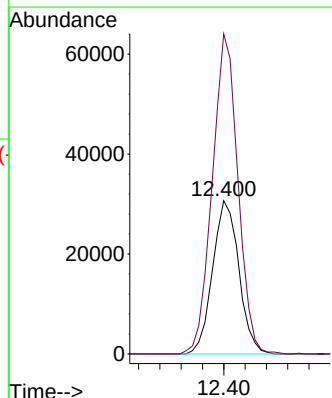
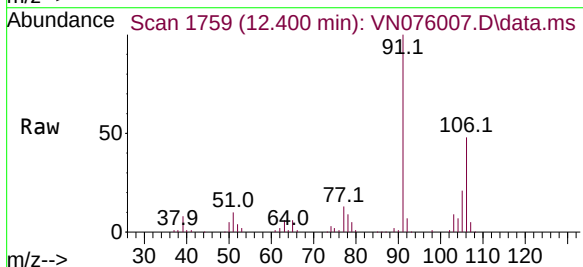
Instrument :
MSVOA_N
ClientSampleId :
SB-9

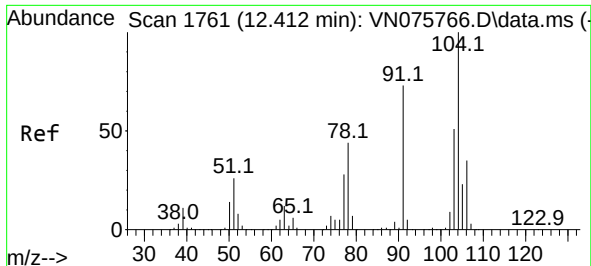
Tgt Ion:106 Resp: 53409
Ion Ratio Lower Upper
106 100
91 197.0 156.6 235.0



#69
o-Xylene
Concen: 7.200 ug/l
RT: 12.400 min Scan# 1759
Delta R.T. 0.000 min
Lab File: VN076007.D
Acq: 28 Dec 2022 18:08

Tgt Ion:106 Resp: 52338
Ion Ratio Lower Upper
106 100
91 204.3 103.8 311.6

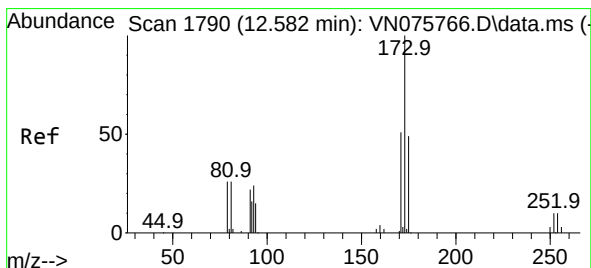
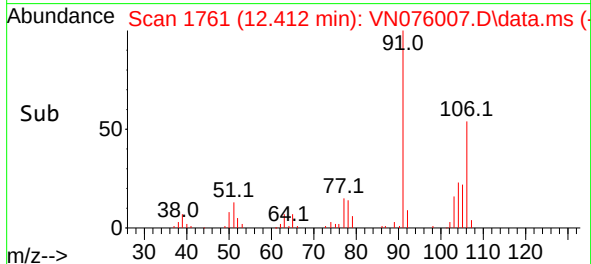
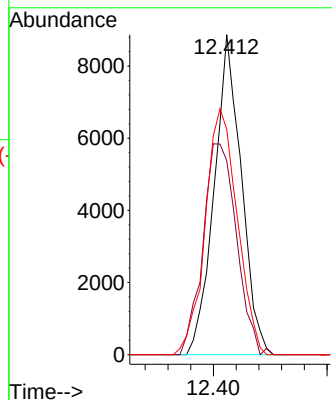
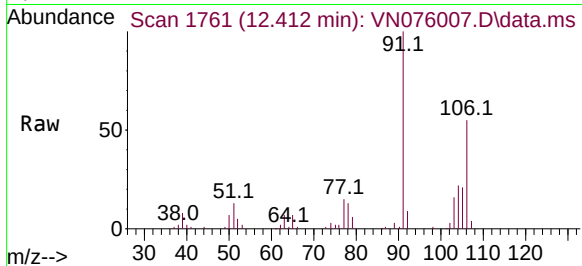




#70
Styrene
Concen: 1.270 ug/l
RT: 12.412 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN076007.D
Acq: 28 Dec 2022 18:08

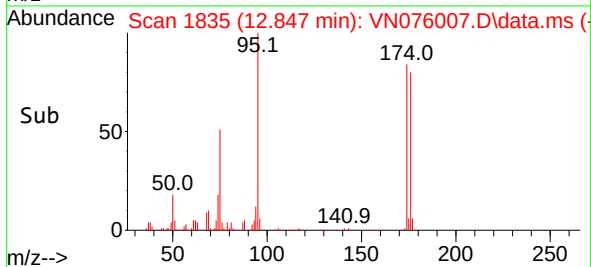
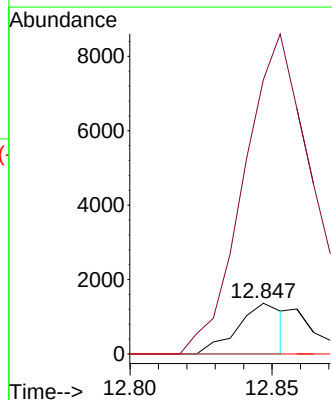
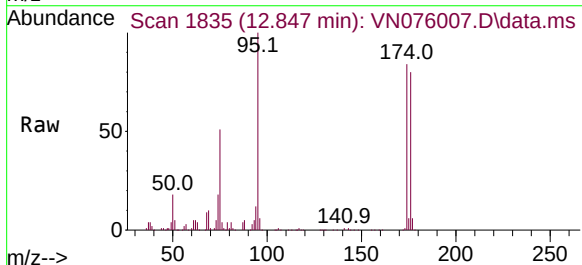
Instrument :
MSVOA_N
ClientSampleId :
SB-9

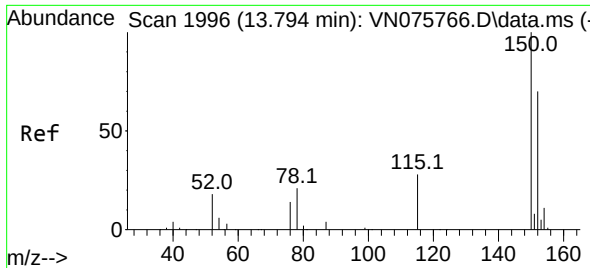
Tgt Ion:104 Resp: 14685
Ion Ratio Lower Upper
104 100
78 81.6 37.5 56.3#
103 90.9 43.5 65.3#



#71
Bromoform
Concen: 0.511 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.265 min
Lab File: VN076007.D
Acq: 28 Dec 2022 18:08

Tgt Ion:173 Resp: 1515
Ion Ratio Lower Upper
173 100
175 746.9 24.3 72.8#
254 0.0 0.0 0.0

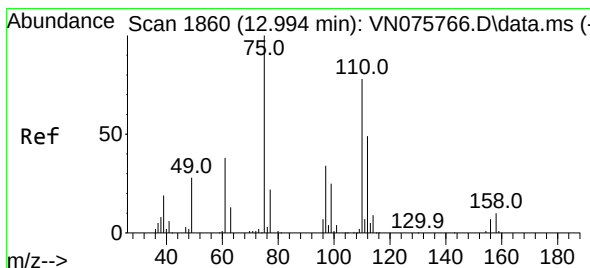
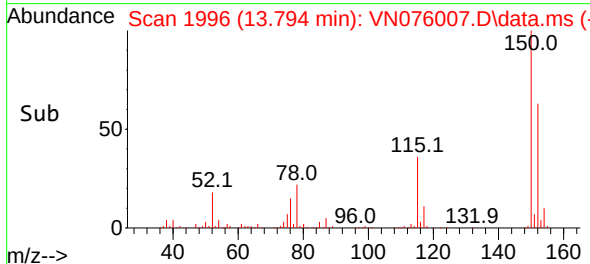
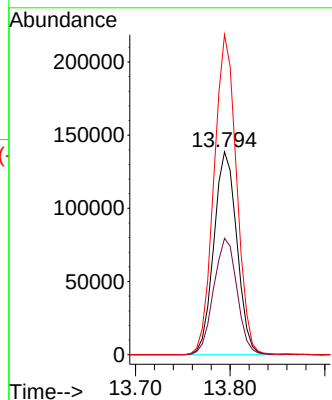
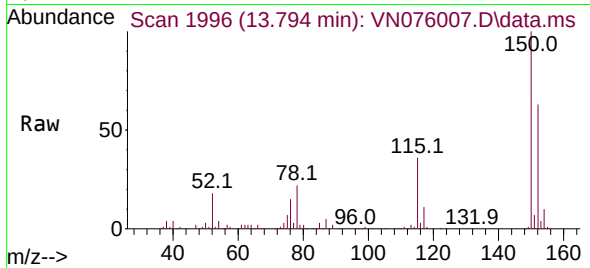




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 1996
 Delta R.T. 0.000 min
 Lab File: VN076007.D
 Acq: 28 Dec 2022 18:08

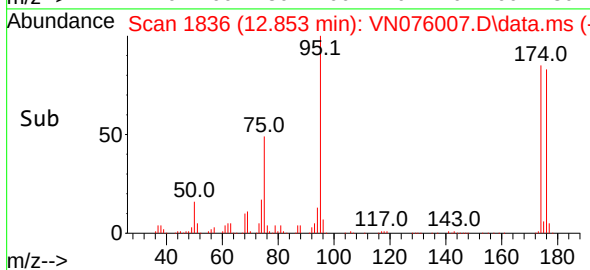
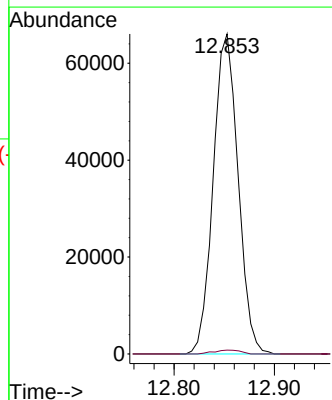
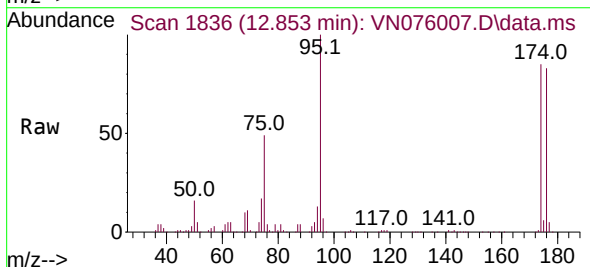
Instrument :
 MSVOA_N
 ClientSampleId :
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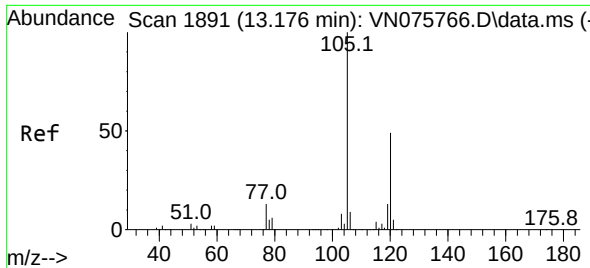
Tgt Ion:152 Resp: 234302
 Ion Ratio Lower Upper
 152 100
 115 58.2 29.1 87.4
 150 154.8 0.0 347.0



#76
 1,2,3-Trichloropropane
 Concen: 24.057 ug/l
 RT: 12.853 min Scan# 1836
 Delta R.T. -0.141 min
 Lab File: VN076007.D
 Acq: 28 Dec 2022 18:08

Tgt Ion: 75 Resp: 113620
 Ion Ratio Lower Upper
 75 100
 77 1.3 82.6 247.8#

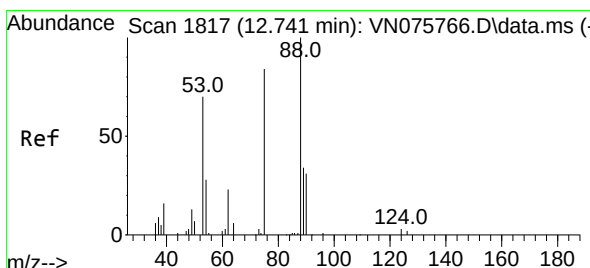
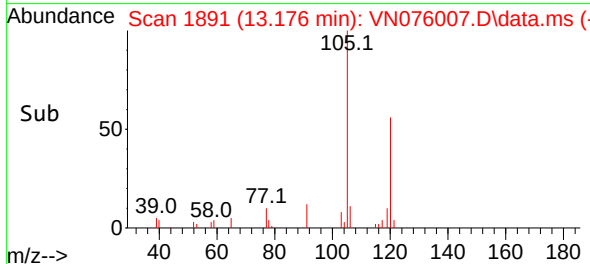
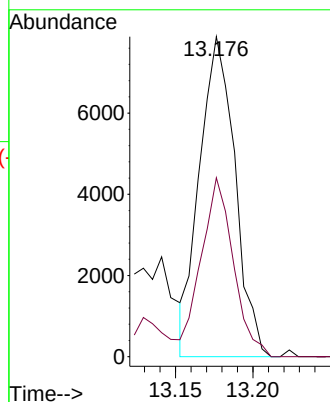
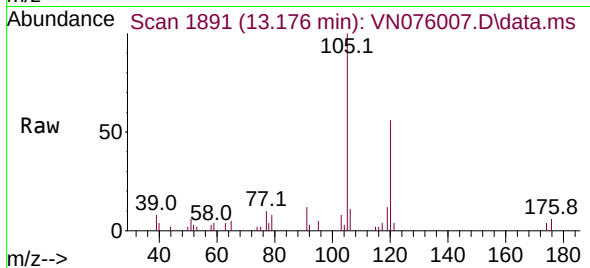




#80
1,3,5-Trimethylbenzene
Concen: 0.882 ug/l
RT: 13.176 min Scan# 1891
Delta R.T. 0.000 min
Lab File: VN076007.D
Acq: 28 Dec 2022 18:08

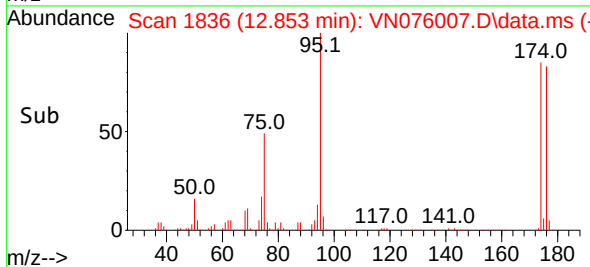
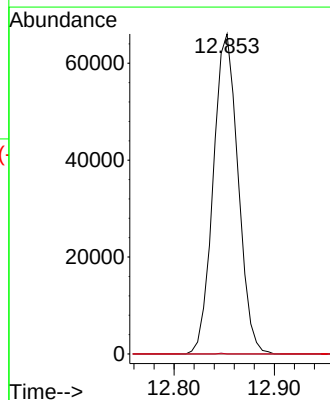
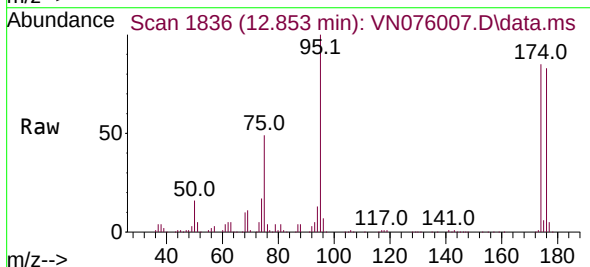
Instrument :
MSVOA_N
ClientSampleId :
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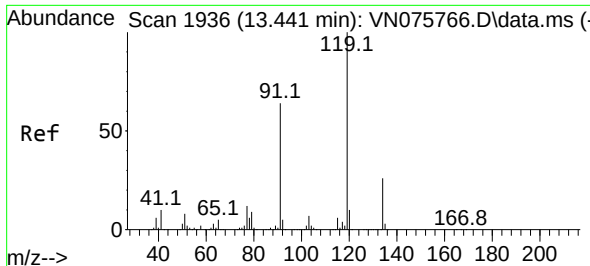
Tgt Ion:105 Resp: 12504
Ion Ratio Lower Upper
105 100
120 50.8 24.7 74.1



#81
trans-1,4-Dichloro-2-butene
Concen: 86.593 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN076007.D
Acq: 28 Dec 2022 18:08

Tgt Ion: 75 Resp: 113620
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#

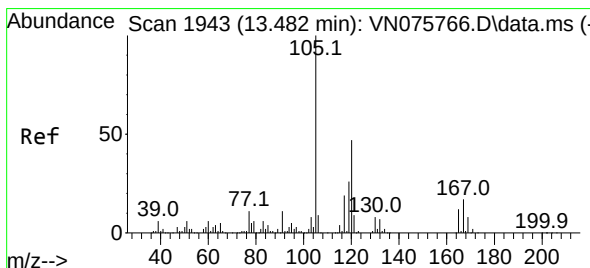
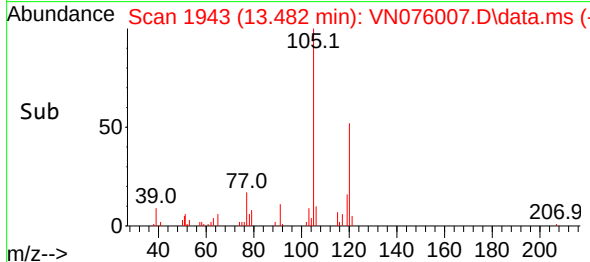
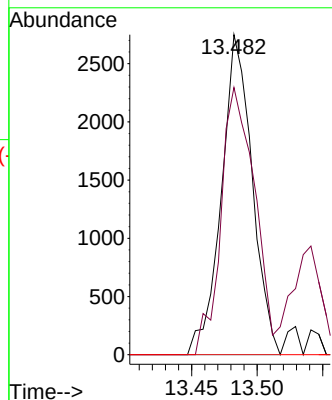
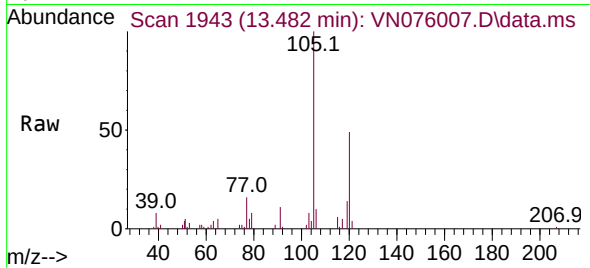




#83
tert-Butylbenzene
Concen: 0.359 ug/l
RT: 13.482 min Scan# 1943
Delta R.T. 0.041 min
Lab File: VN076007.D
Acq: 28 Dec 2022 18:08

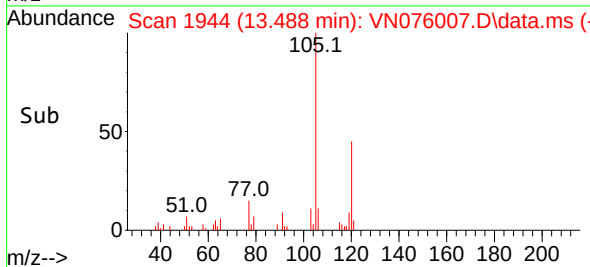
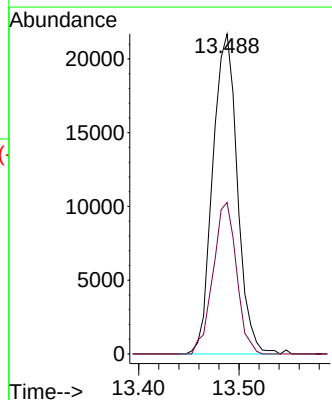
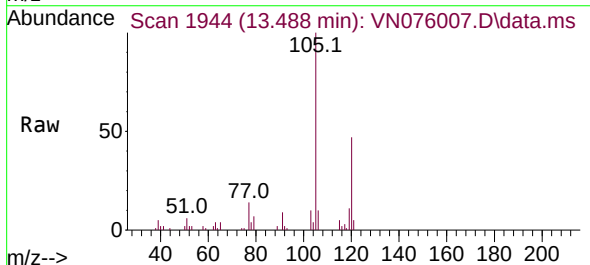
Instrument :
MSVOA_N
ClientSampleId :
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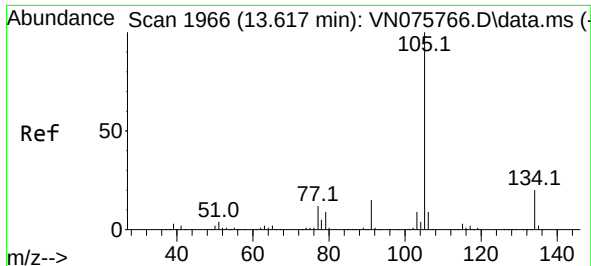
Tgt Ion:119 Resp: 4480
Ion Ratio Lower Upper
119 100
91 91.5 31.9 95.5
134 0.0 13.8 41.4#



#84
1,2,4-Trimethylbenzene
Concen: 2.625 ug/l
RT: 13.488 min Scan# 1944
Delta R.T. 0.006 min
Lab File: VN076007.D
Acq: 28 Dec 2022 18:08

Tgt Ion:105 Resp: 36898
Ion Ratio Lower Upper
105 100
120 45.2 23.3 69.8

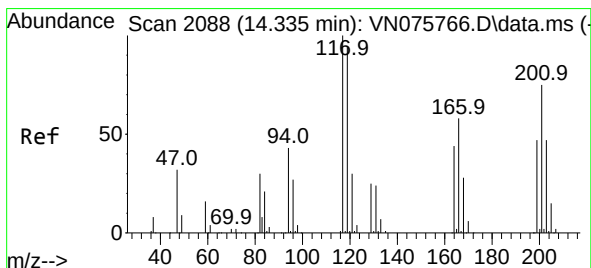
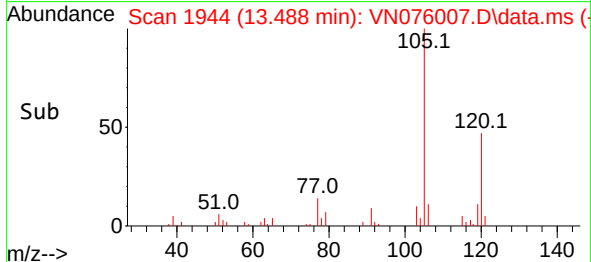
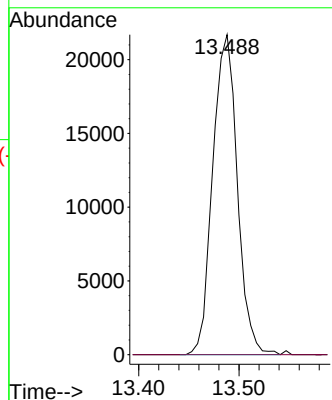
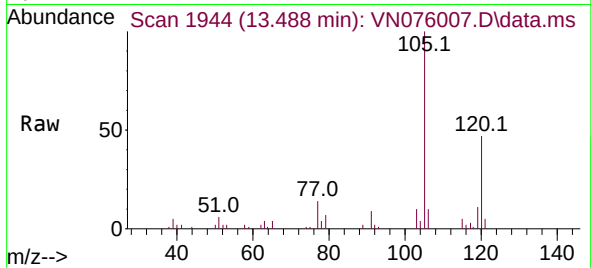




#85
 sec-Butylbenzene
 Concen: 2.140 ug/l
 RT: 13.488 min Scan# 1966
 Delta R.T. -0.129 min
 Lab File: VN076007.D
 Acq: 28 Dec 2022 18:08

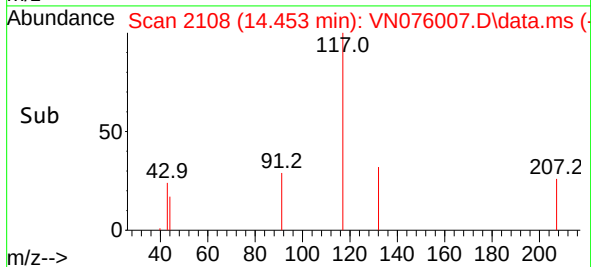
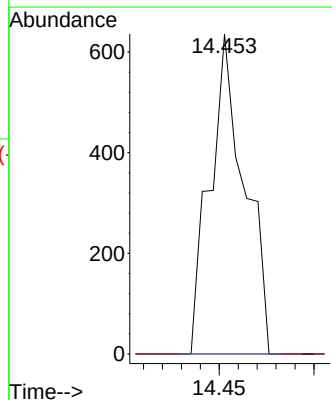
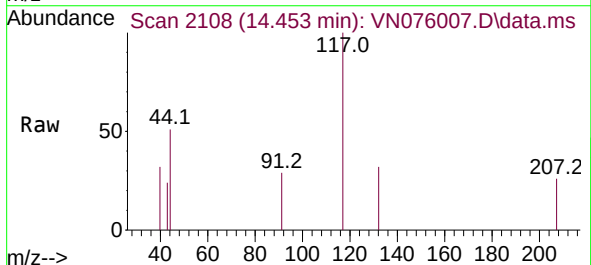
Instrument :
 MSVOA_N
 ClientSampleId :
 SB-9

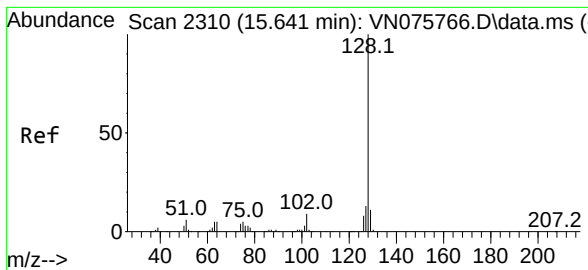
Tgt Ion:105 Resp: 36898
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.1 30.1#



#90
 Hexachloroethane
 Concen: 0.314 ug/l
 RT: 14.453 min Scan# 2108
 Delta R.T. 0.118 min
 Lab File: VN076007.D
 Acq: 28 Dec 2022 18:08

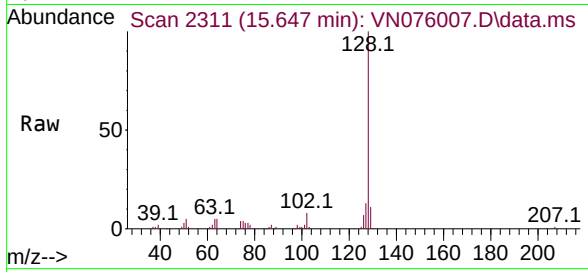
Tgt Ion:117 Resp: 807
 Ion Ratio Lower Upper
 117 100
 201 0.0 38.0 114.1#





#95
Naphthalene
Concen: 14.829 ug/l
RT: 15.647 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN076007.D
Acq: 28 Dec 2022 18:08

Instrument :
MSVOA_N
ClientSampleId :
SB-9



Tgt Ion:	128	Resp:	168668
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	11.2	8.7	13.1

