

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122822\
 Data File : VN076002.D
 Acq On : 28 Dec 2022 16:09
 Operator : JC\MD
 Sample : N6213-04 100X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-4

Quant Time: Dec 29 04:53:22 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)

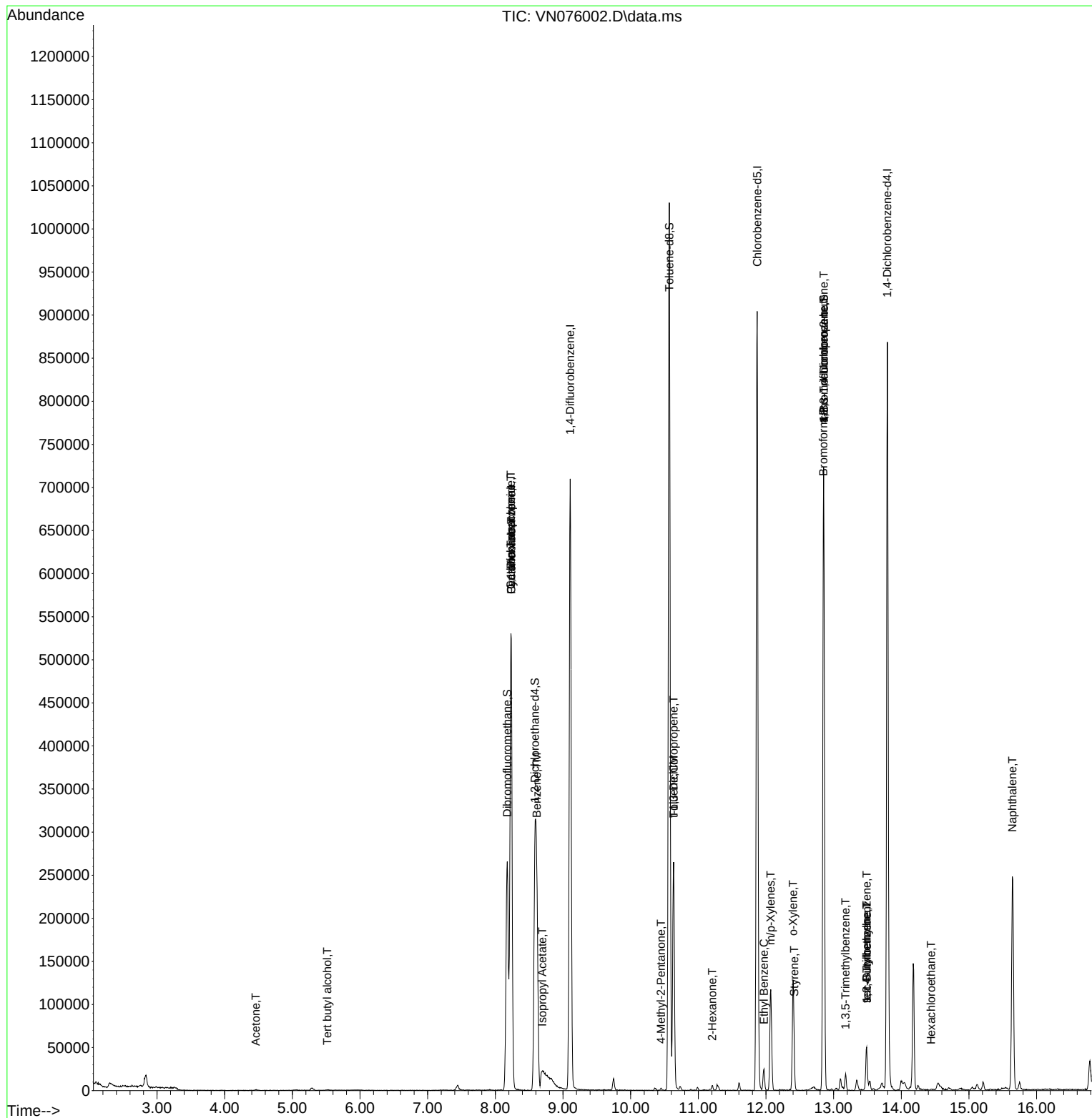
Internal Standards						
1) Pentafluorobenzene	8.236	168	418863	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	652427	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	558573	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	242961	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	210718	46.242	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.480%		
35) Dibromofluoromethane	8.177	113	191092	47.295	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.600%		
50) Toluene-d8	10.571	98	742338	49.140	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.280%		
62) 4-Bromofluorobenzene	12.853	95	239822	47.931	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.860%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.518	59	457	0.709	ug/l #	72
16) Acetone	4.459	43	1417	0.902	ug/l #	39
20) Methylene Chloride	5.283	84	2268	Below Cal	#	83
31) Cyclohexane	8.236	56	8509	1.304	ug/l #	29
36) 1,1-Dichloropropene	8.230	75	29240	5.448	ug/l #	50
38) Carbon Tetrachloride	8.230	117	41018	6.828	ug/l #	16
40) Benzene	8.612	78	227694	13.750	ug/l	100
43) Isopropyl Acetate	8.694	43	31374	4.412	ug/l #	53
51) 4-Methyl-2-Pentanone	10.447	43	1984	0.461	ug/l #	75
52) Toluene	10.635	92	123078	11.412	ug/l	99
53) t-1,3-Dichloropropene	10.635	75	1357	0.237	ug/l #	1
59) 2-Hexanone	11.206	43	1300	0.414	ug/l #	34
67) Ethyl Benzene	11.971	91	19081	0.986	ug/l	93
68) m/p-Xylenes	12.071	106	39057	5.100	ug/l	97
69) o-Xylene	12.400	106	35865	4.732	ug/l	99
70) Styrene	12.418	104	10604	0.880	ug/l #	49
71) Bromoform	12.847	173	1727	0.559	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	121731	24.856	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.176	105	10579	0.720	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.853	75	121731	89.468	ug/l #	12
83) tert-Butylbenzene	13.488	119	3799	0.293	ug/l #	65
84) 1,2,4-Trimethylbenzene	13.488	105	30333	2.081	ug/l	94
85) sec-Butylbenzene	13.488	105	30333	1.696	ug/l #	56
90) Hexachloroethane	14.441	117	629	0.236	ug/l #	11
95) Naphthalene	15.641	128	251814	20.392	ug/l	99

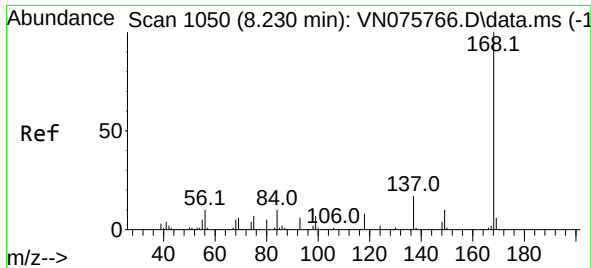
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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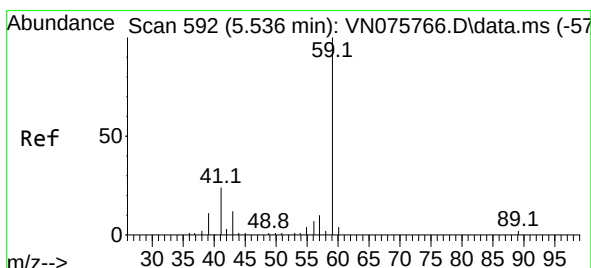
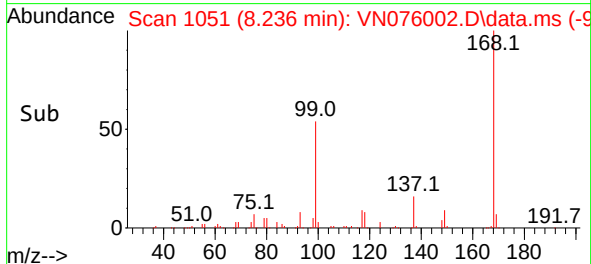
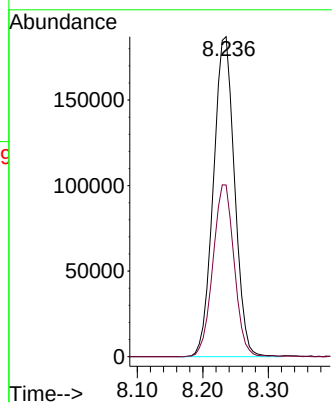
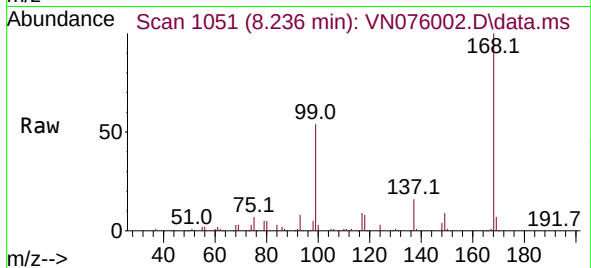




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1050
Delta R.T. 0.006 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

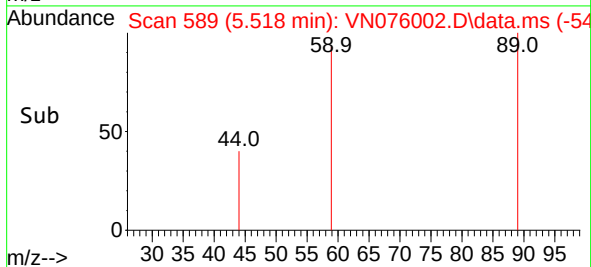
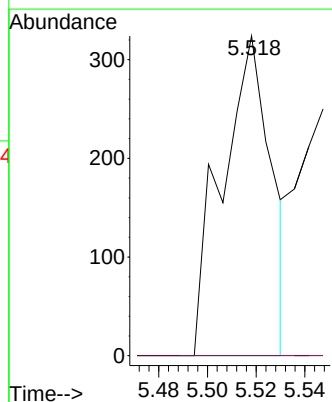
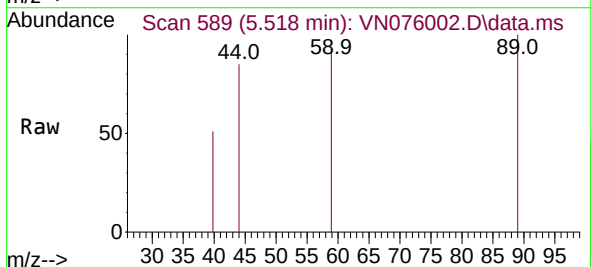
Instrument :
MSVOA_N
ClientSampleId :
SB-4

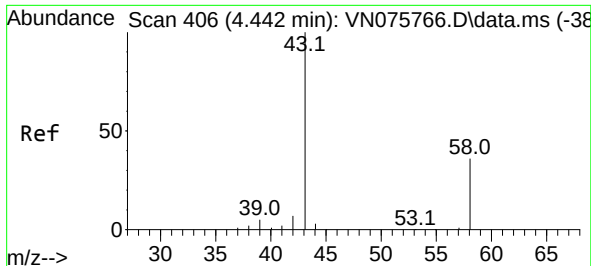
Tgt Ion:168 Resp: 418863
Ion Ratio Lower Upper
168 100
99 53.6 44.2 66.4



#11
Tert butyl alcohol
Concen: 0.709 ug/l
RT: 5.518 min Scan# 589
Delta R.T. -0.018 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

Tgt Ion: 59 Resp: 457
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

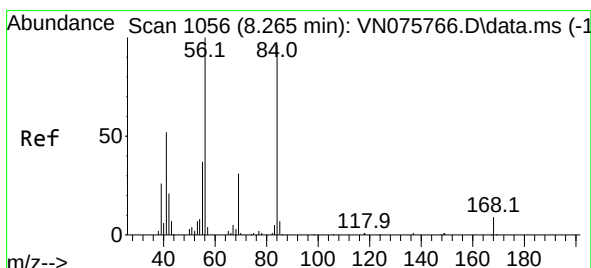
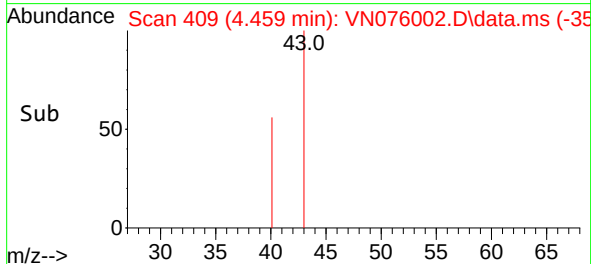
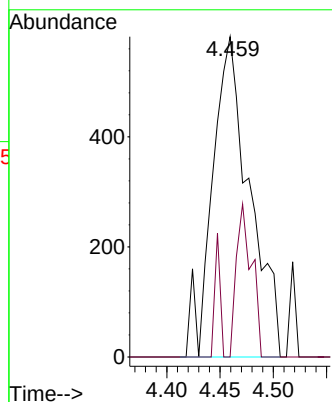
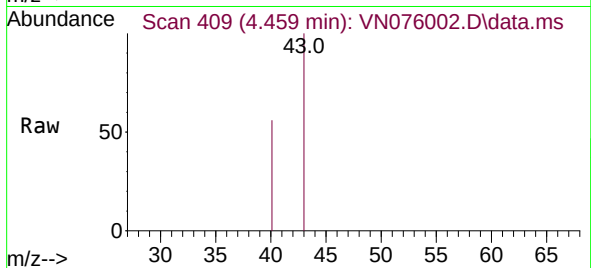




#16
Acetone
Concen: 0.902 ug/l
RT: 4.459 min Scan# 406
Delta R.T. 0.018 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

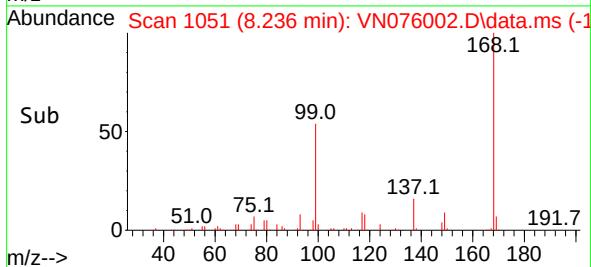
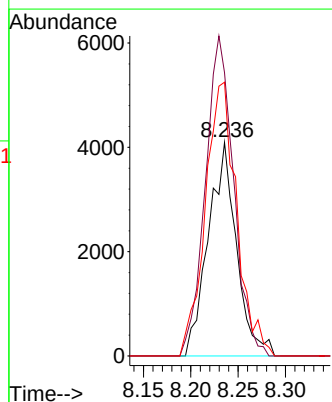
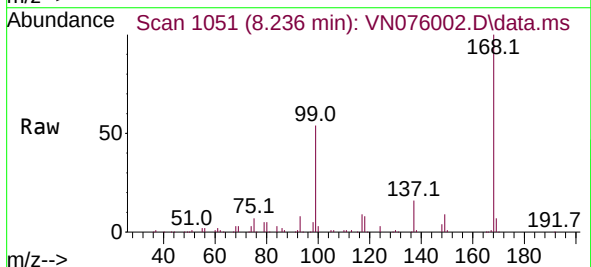
Instrument :
MSVOA_N
ClientSampleId :
SB-4

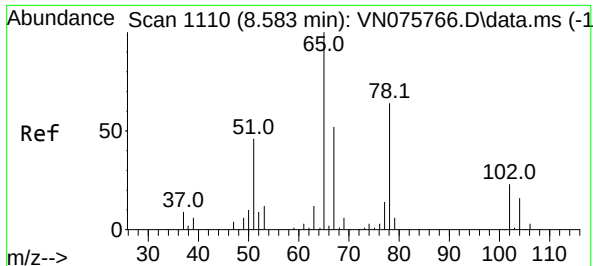
Tgt Ion: 43 Resp: 1417
Ion Ratio Lower Upper
43 100
58 0.0 28.6 43.0#



#31
Cyclohexane
Concen: 1.304 ug/l
RT: 8.236 min Scan# 1051
Delta R.T. -0.029 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

Tgt Ion: 56 Resp: 8509
Ion Ratio Lower Upper
56 100
69 132.6 24.7 37.1#
84 128.1 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 46.242 ug/l

RT: 8.583 min Scan# 1110

Delta R.T. 0.000 min

Lab File: VN076002.D

Acq: 28 Dec 2022 16:09

Instrument :

MSVOA_N

ClientSampleId :

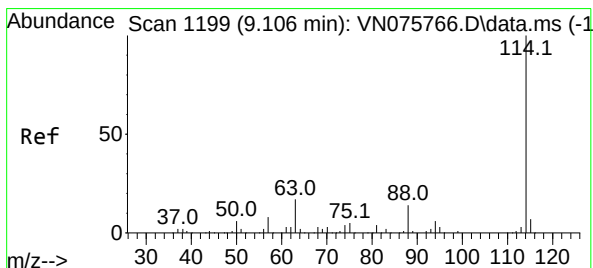
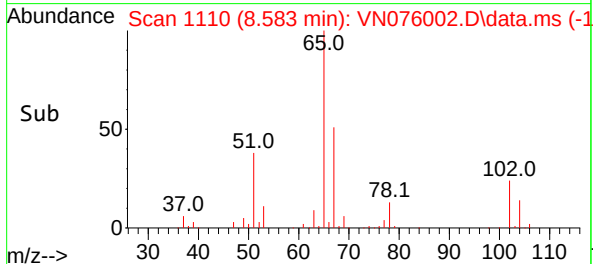
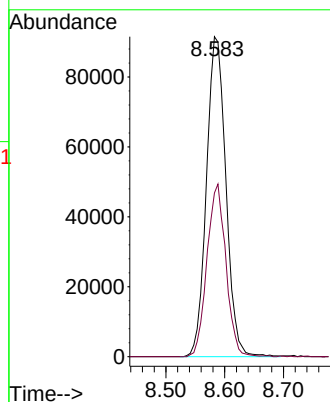
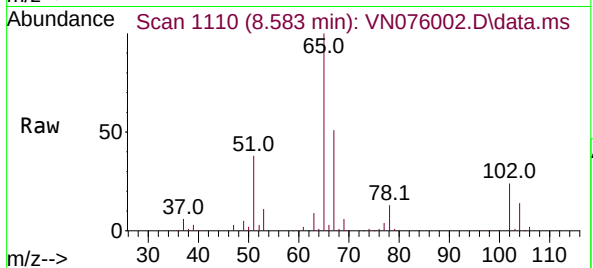
SB-4

Tgt Ion: 65 Resp: 210718

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: VN076002.D

Acq: 28 Dec 2022 16:09

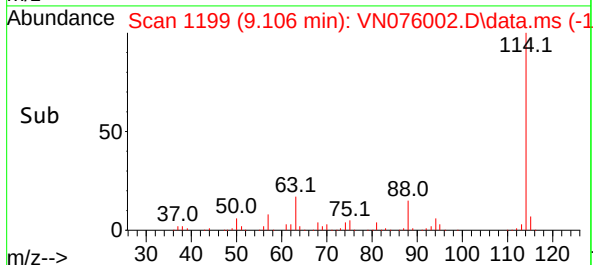
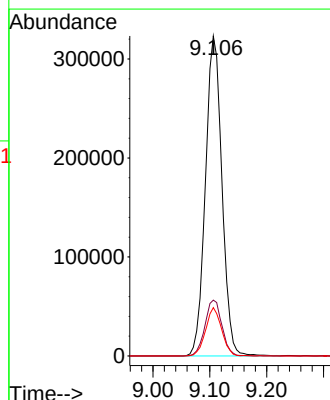
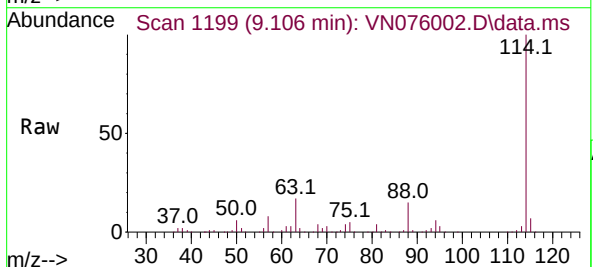
Tgt Ion: 114 Resp: 652427

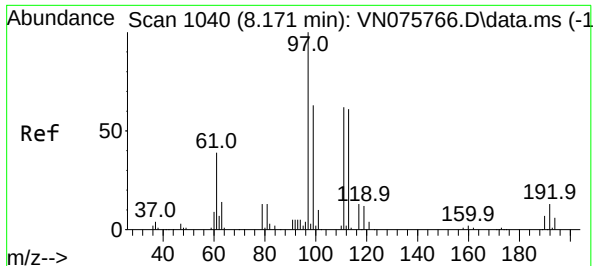
Ion Ratio Lower Upper

114 100

63 17.5 0.0 34.4

88 15.1 0.0 28.8





#35

Dibromofluoromethane

Concen: 47.295 ug/l

RT: 8.177 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN076002.D

Acq: 28 Dec 2022 16:09

Instrument :

MSVOA_N

ClientSampleId :

SB-4

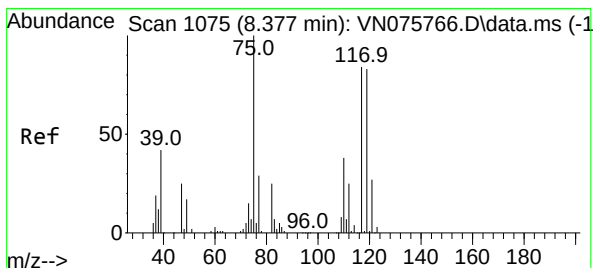
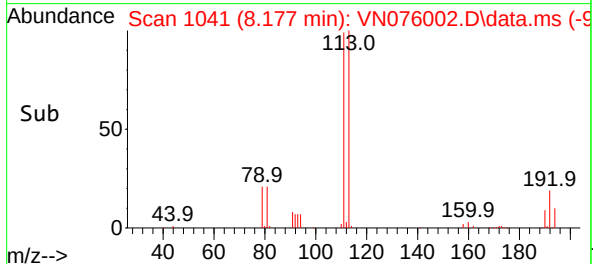
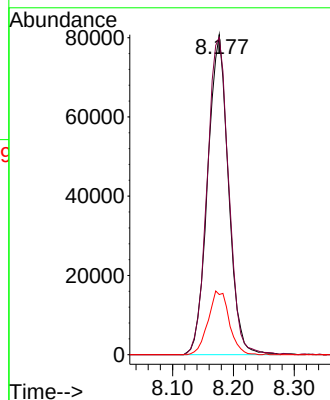
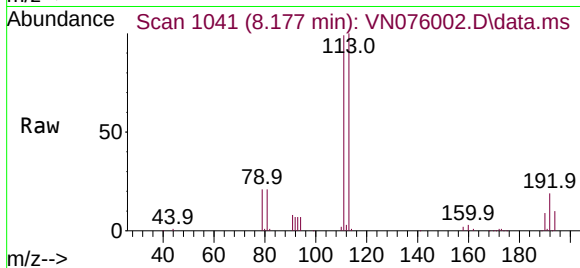
Tgt Ion:113 Resp: 191092

Ion Ratio Lower Upper

113 100

111 102.7 83.4 125.2

192 20.2 16.1 24.1



#36

1,1-Dichloropropene

Concen: 5.448 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN076002.D

Acq: 28 Dec 2022 16:09

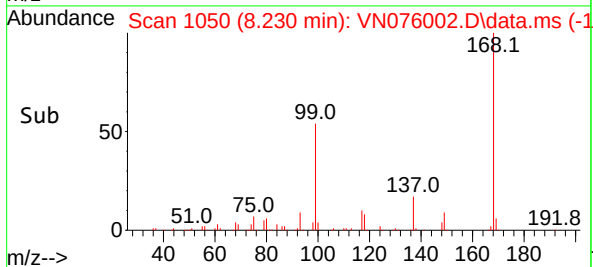
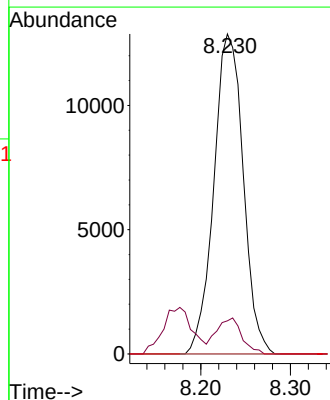
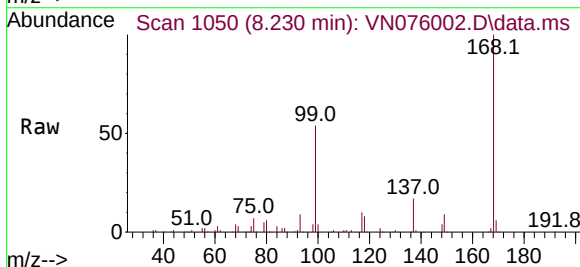
Tgt Ion: 75 Resp: 29240

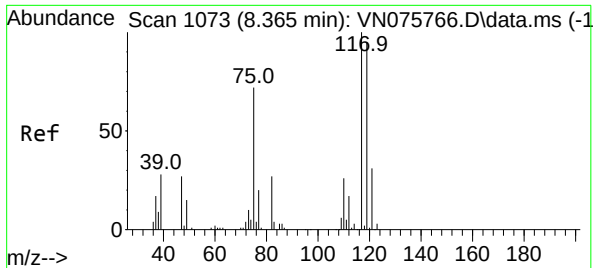
Ion Ratio Lower Upper

75 100

110 9.7 18.8 56.4#

77 0.0 24.1 36.1#

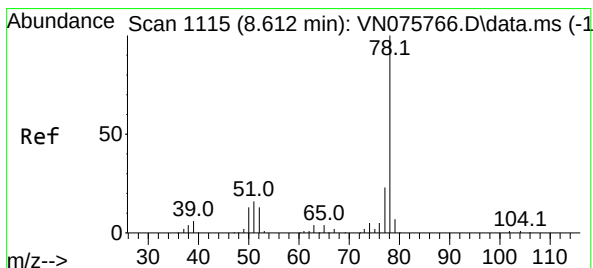
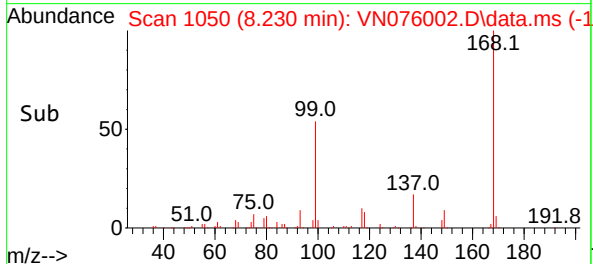
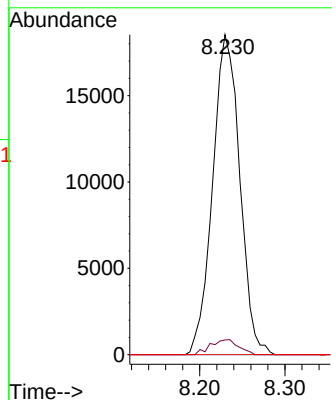
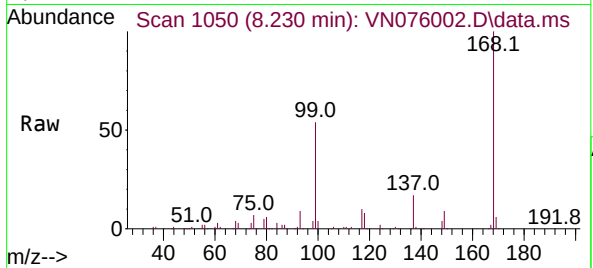




#38
Carbon Tetrachloride
Concen: 6.828 ug/l
RT: 8.230 min Scan# 1105
Delta R.T. -0.135 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

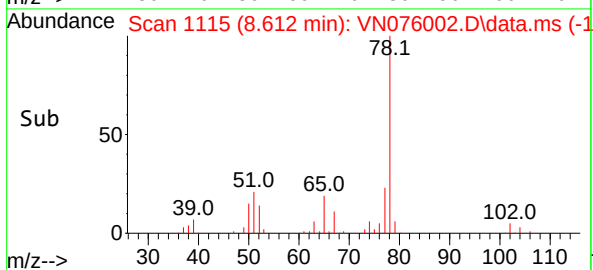
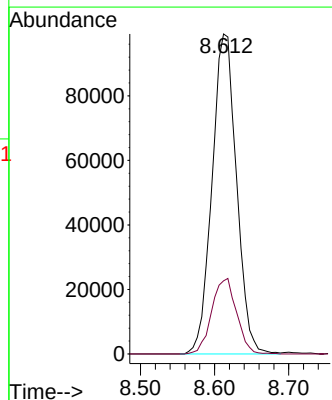
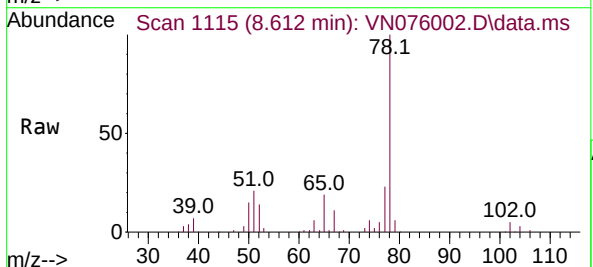
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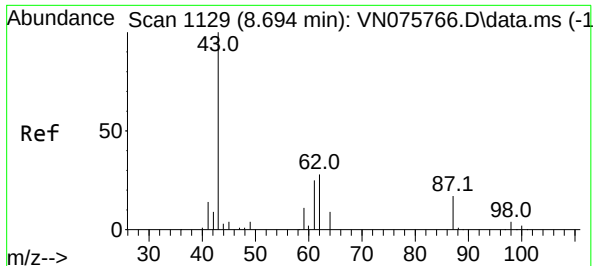
Tgt Ion:117 Resp: 41018
Ion Ratio Lower Upper
117 100
119 4.6 76.1 114.1#
121 0.0 24.5 36.7#



#40
Benzene
Concen: 13.750 ug/l
RT: 8.612 min Scan# 1115
Delta R.T. 0.000 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

Tgt Ion: 78 Resp: 227694
Ion Ratio Lower Upper
78 100
77 22.9 18.5 27.7





#43

Isopropyl Acetate

Concen: 4.412 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VN076002.D

Acq: 28 Dec 2022 16:09

Instrument :

MSVOA_N

ClientSampleId :

SB-4

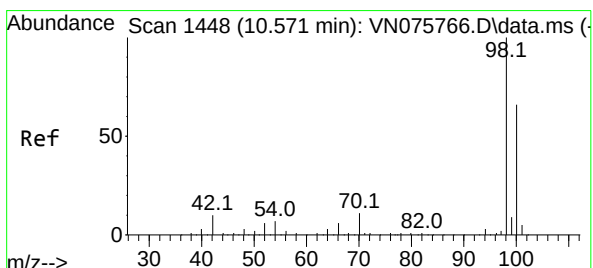
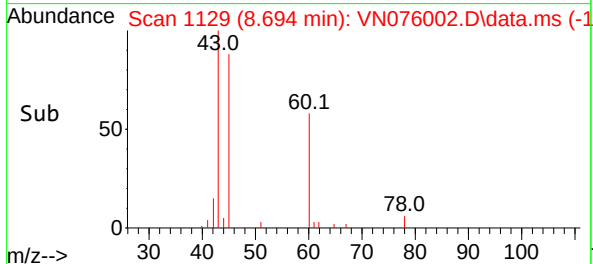
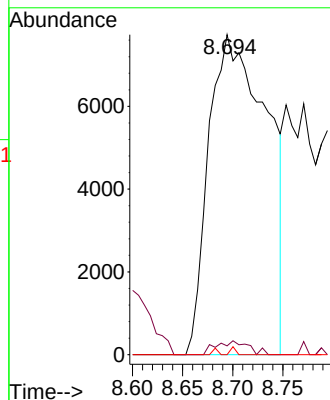
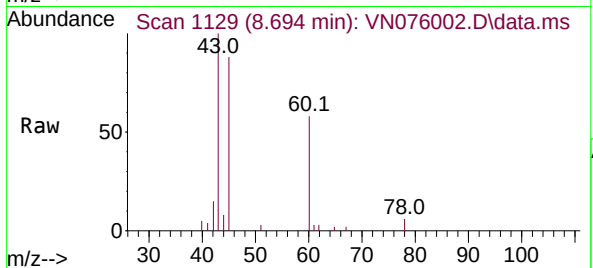
Tgt Ion: 43 Resp: 31374

Ion Ratio Lower Upper

43 100

61 2.4 24.2 36.4#

87 0.2 13.3 19.9#



#50

Toluene-d8

Concen: 49.140 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. 0.000 min

Lab File: VN076002.D

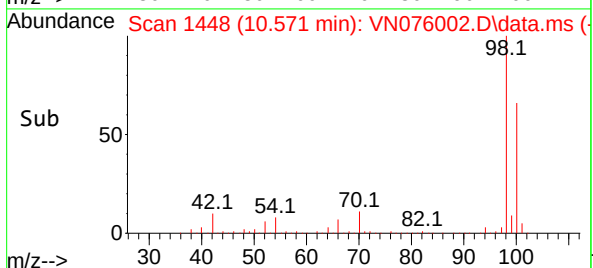
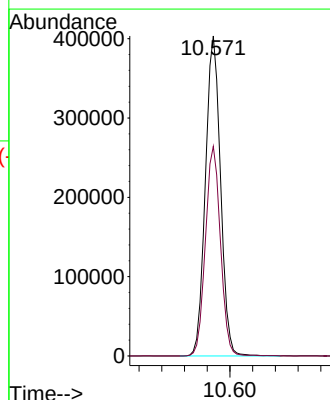
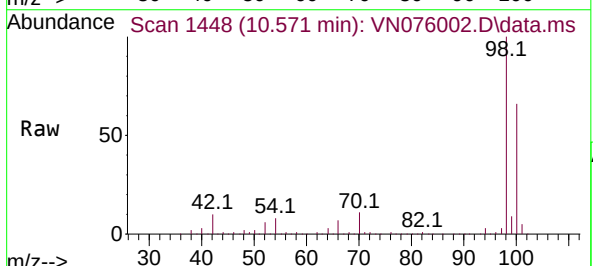
Acq: 28 Dec 2022 16:09

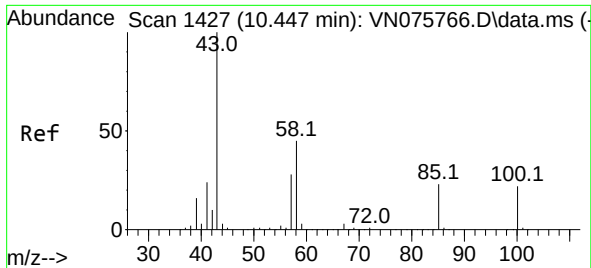
Tgt Ion: 98 Resp: 742338

Ion Ratio Lower Upper

98 100

100 65.2 52.1 78.1

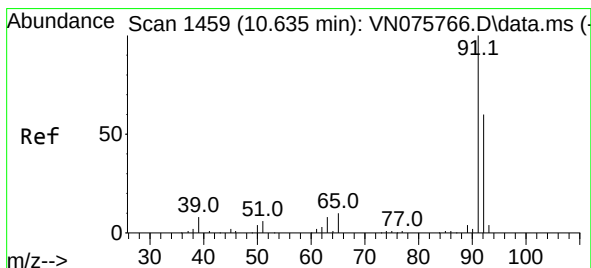
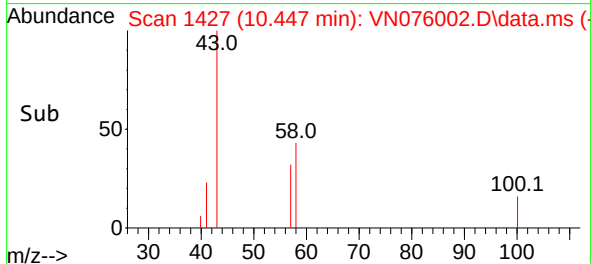
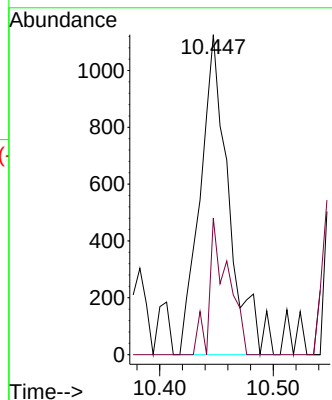
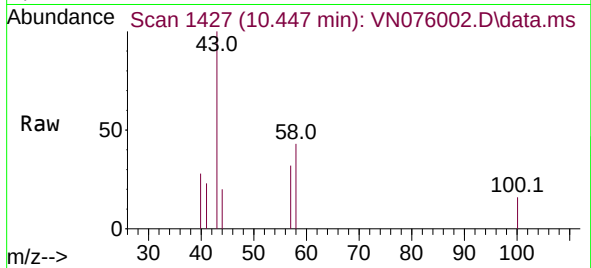




#51
4-Methyl-2-Pentanone
Concen: 0.461 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

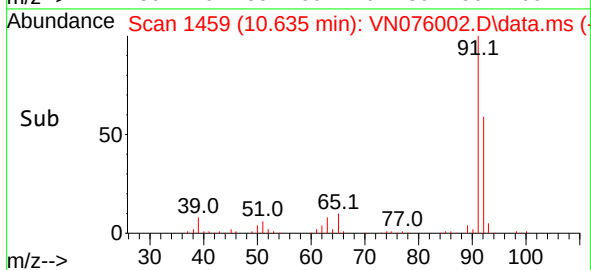
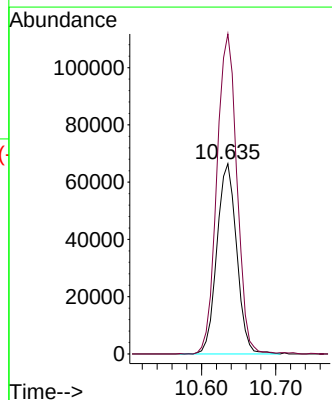
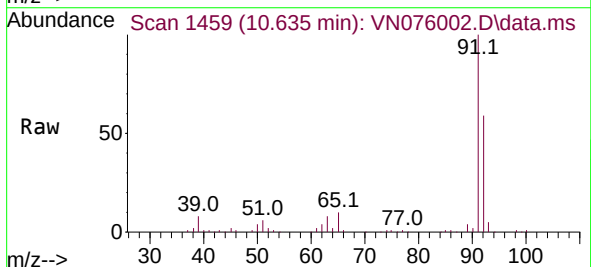
Instrument :
MSVOA_N
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SB-4

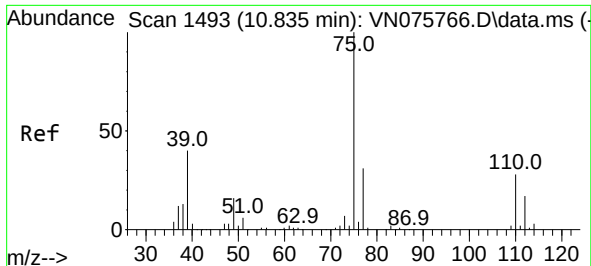
Tgt Ion: 43 Resp: 1984
Ion Ratio Lower Upper
43 100
58 28.2 35.5 53.3#



#52
Toluene
Concen: 11.412 ug/l
RT: 10.635 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

Tgt Ion: 92 Resp: 123078
Ion Ratio Lower Upper
92 100
91 170.5 137.3 205.9

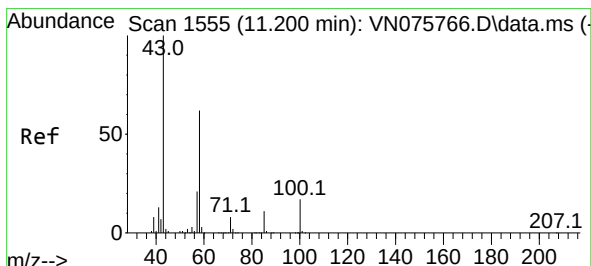
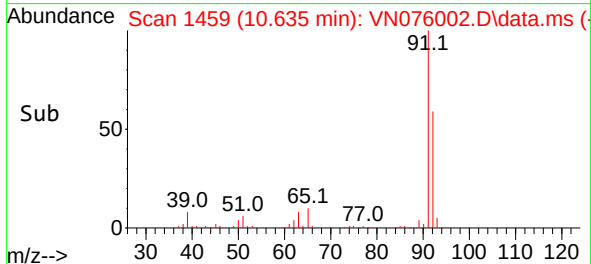
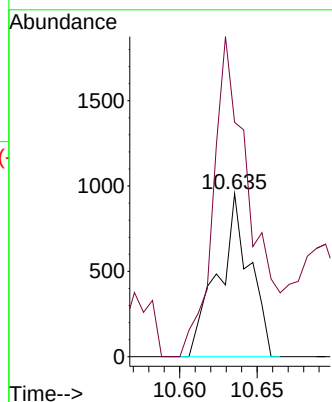
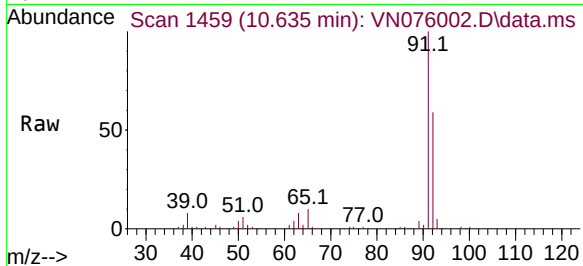




#53
t-1,3-Dichloropropene
Concen: 0.237 ug/l
RT: 10.635 min Scan# 1493
Delta R.T. -0.200 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

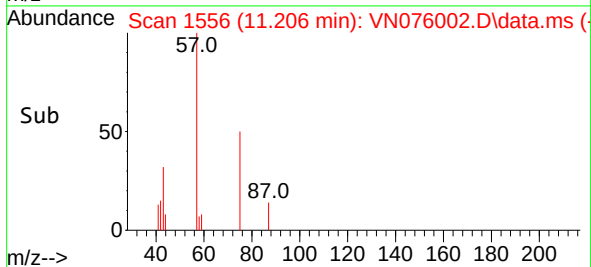
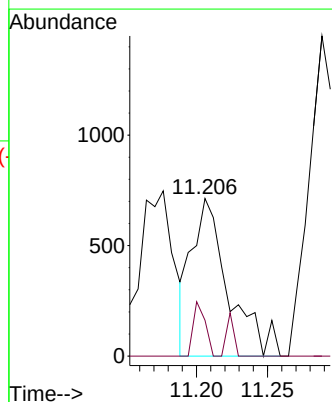
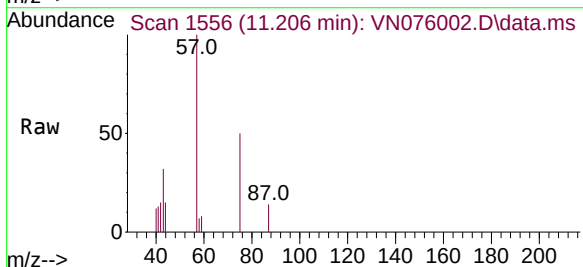
Instrument :
MSVOA_N
ClientSampleId :
SB-4

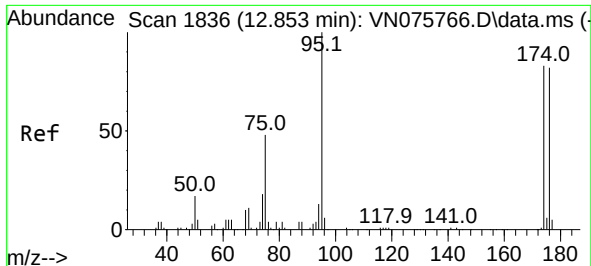
Tgt Ion: 75 Resp: 1357
Ion Ratio Lower Upper
75 100
77 143.9 24.9 37.3#



#59
2-Hexanone
Concen: 0.414 ug/l
RT: 11.206 min Scan# 1556
Delta R.T. 0.006 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

Tgt Ion: 43 Resp: 1300
Ion Ratio Lower Upper
43 100
58 11.1 30.6 92.0#

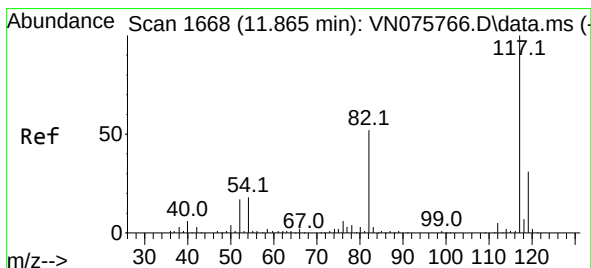
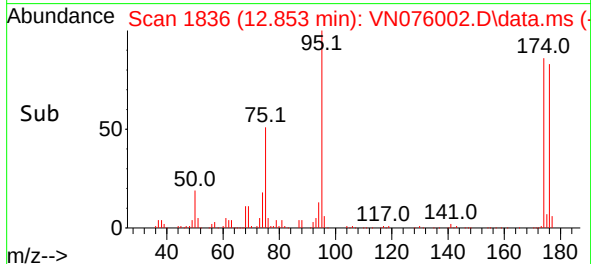
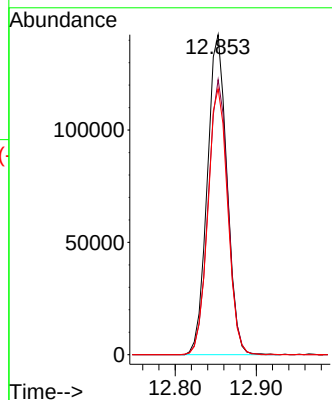
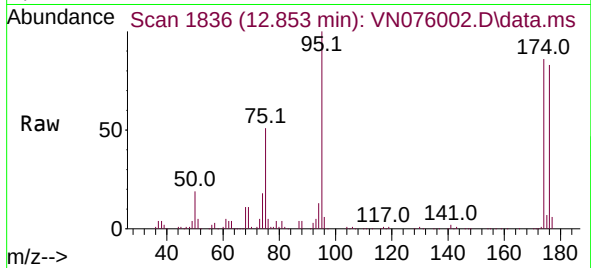




#62
4-Bromofluorobenzene
Concen: 47.931 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

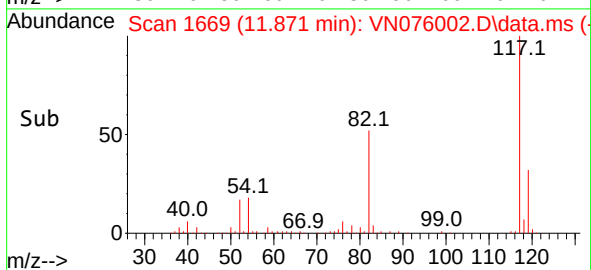
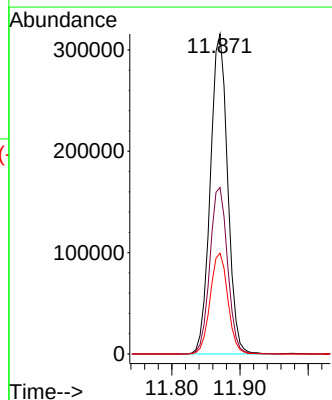
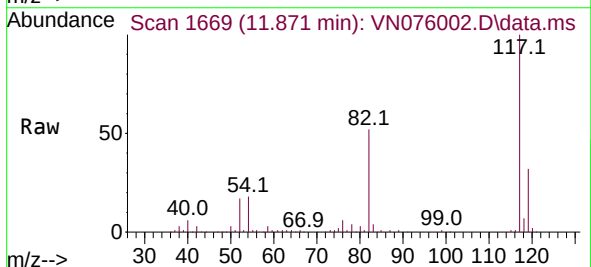
Instrument :
MSVOA_N
ClientSampleId :
SB-4

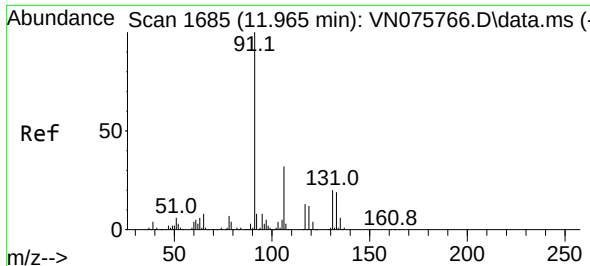
Tgt Ion: 95 Resp: 239822
Ion Ratio Lower Upper
95 100
174 86.3 0.0 171.6
176 83.7 0.0 169.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

Tgt Ion: 117 Resp: 558573
Ion Ratio Lower Upper
117 100
82 52.0 41.3 61.9
119 31.5 24.6 37.0

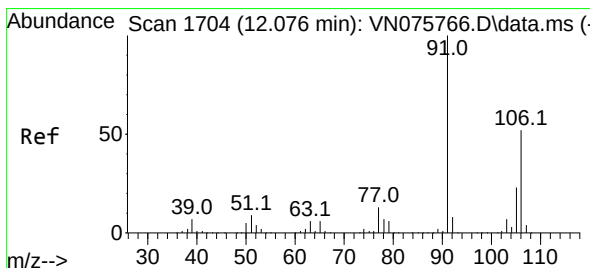
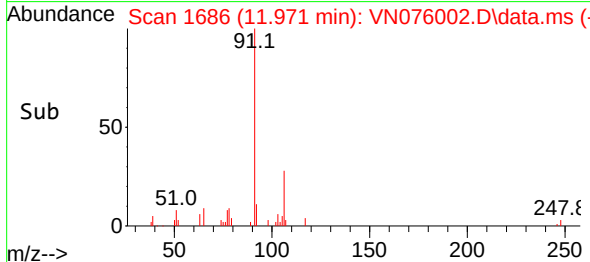
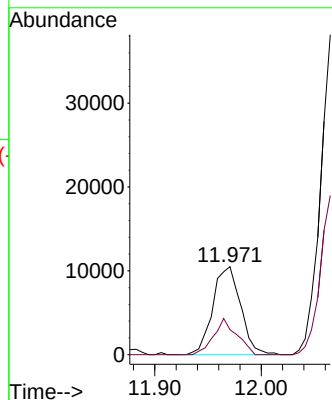
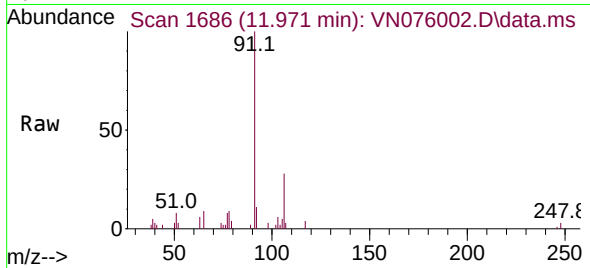




#67
Ethyl Benzene
Concen: 0.986 ug/l
RT: 11.971 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

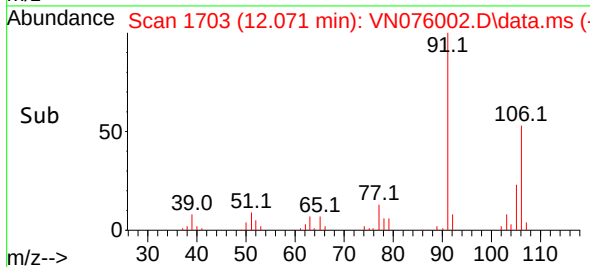
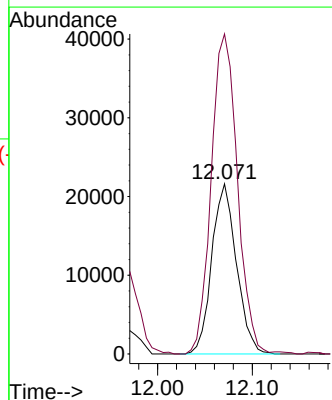
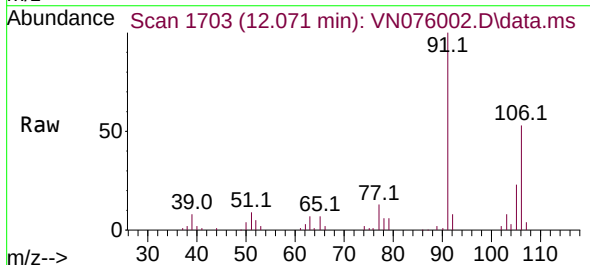
Instrument :
MSVOA_N
ClientSampleId :
SB-4

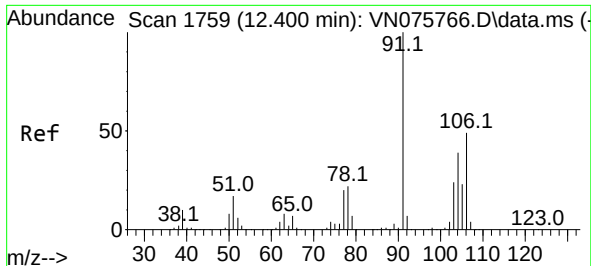
Tgt Ion: 91 Resp: 19081
Ion Ratio Lower Upper
91 100
106 28.4 25.7 38.5



#68
m/p-Xylenes
Concen: 5.100 ug/l
RT: 12.071 min Scan# 1703
Delta R.T. -0.006 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

Tgt Ion: 106 Resp: 39057
Ion Ratio Lower Upper
106 100
91 200.4 156.6 235.0

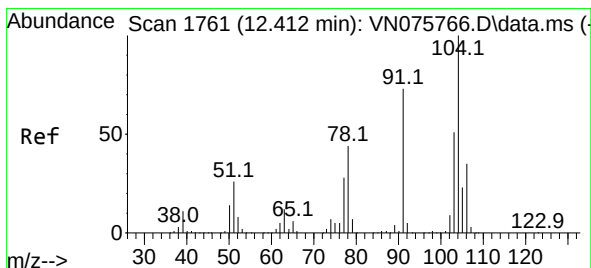
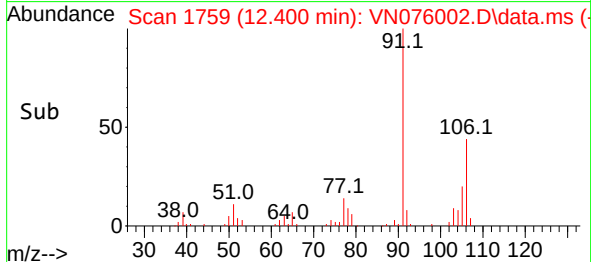
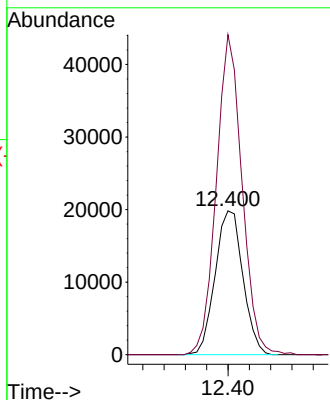
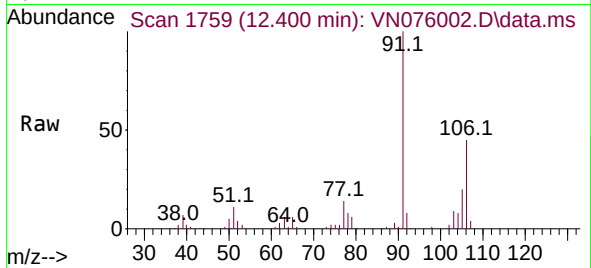




#69
o-Xylene
Concen: 4.732 ug/l
RT: 12.400 min Scan# 1759
Delta R.T. 0.000 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

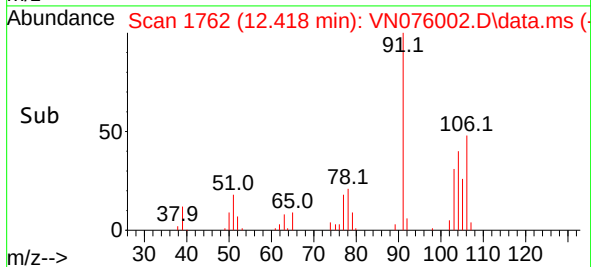
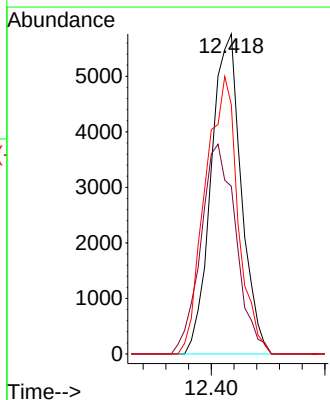
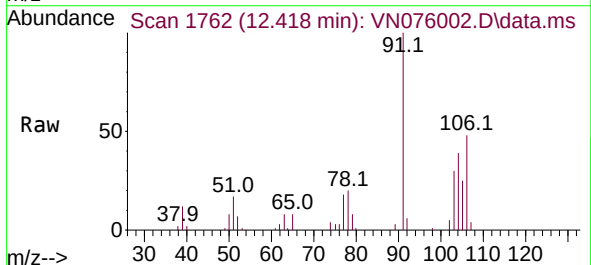
Instrument :
MSVOA_N
ClientSampleId :
SB-4

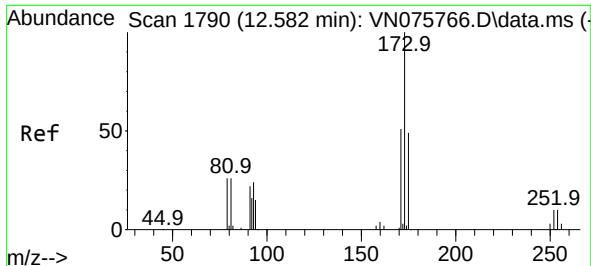
Tgt Ion:106 Resp: 35865
Ion Ratio Lower Upper
106 100
91 205.9 103.8 311.6



#70
Styrene
Concen: 0.880 ug/l
RT: 12.418 min Scan# 1762
Delta R.T. 0.006 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

Tgt Ion:104 Resp: 10604
Ion Ratio Lower Upper
104 100
78 76.5 37.5 56.3#
103 94.5 43.5 65.3#

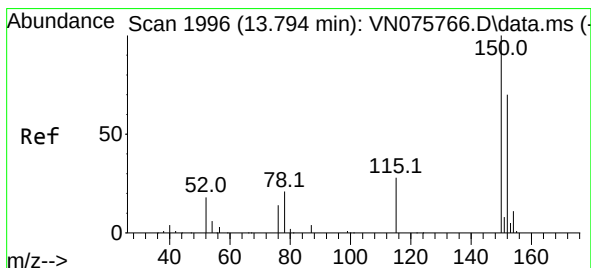
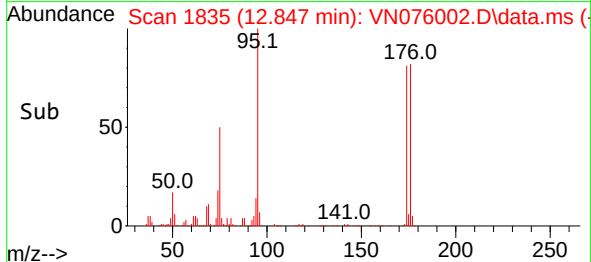
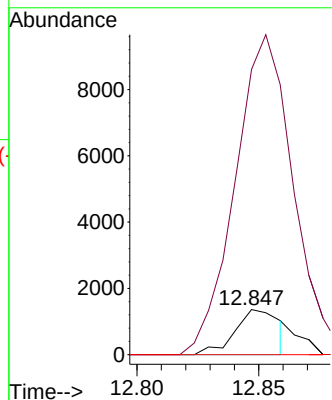
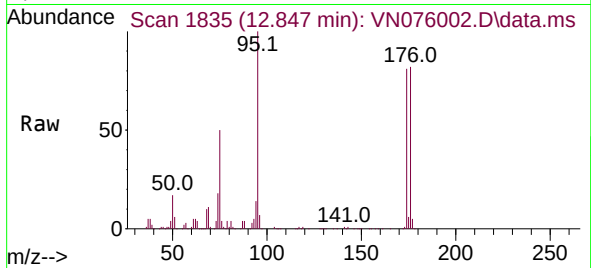




#71
Bromoform
Concen: 0.559 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.265 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

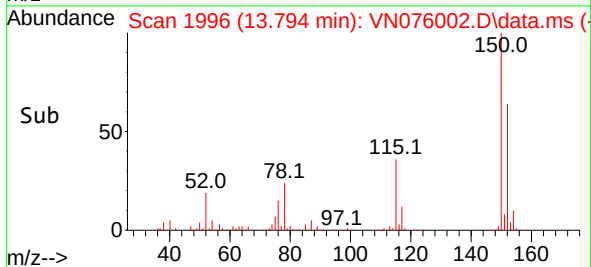
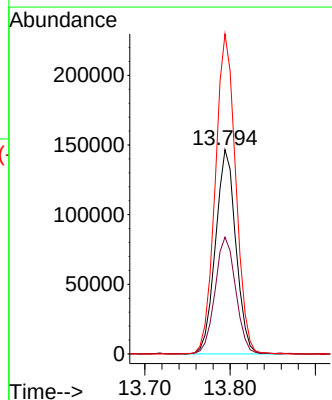
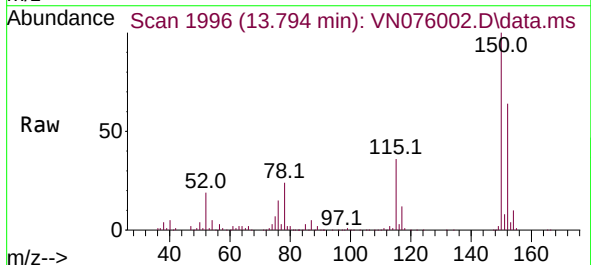
Instrument :
MSVOA_N
ClientSampleId :
SB-4

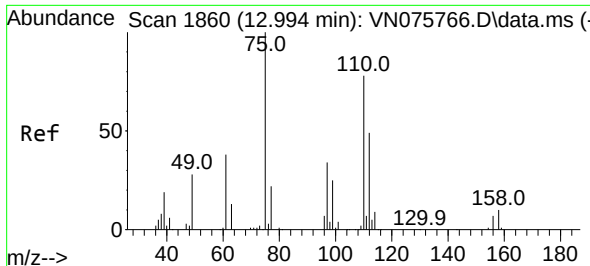
Tgt Ion:173 Resp: 1727
Ion Ratio Lower Upper
173 100
175 747.5 24.3 72.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

Tgt Ion:152 Resp: 242961
Ion Ratio Lower Upper
152 100
115 58.4 29.1 87.4
150 157.3 0.0 347.0

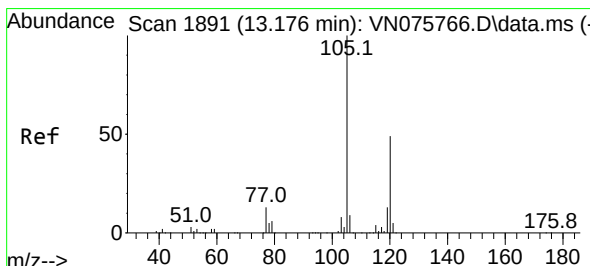
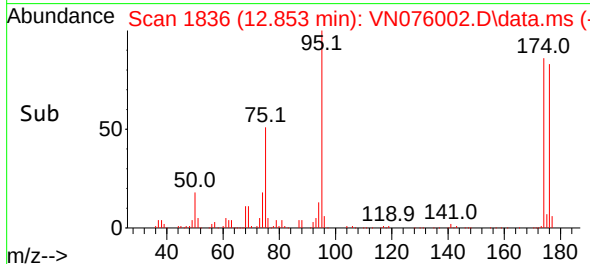
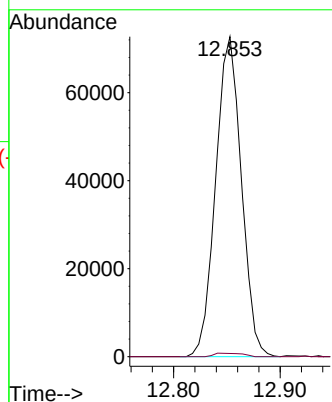
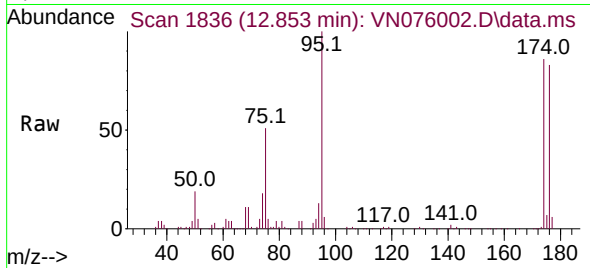




#76
1,2,3-Trichloropropane
Concen: 24.856 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

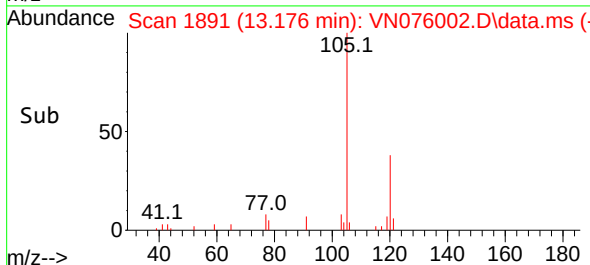
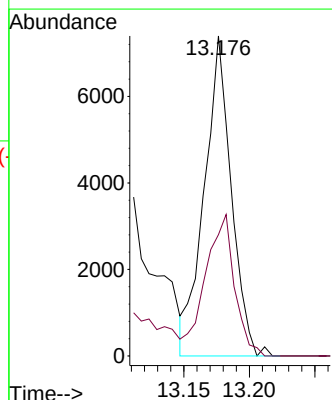
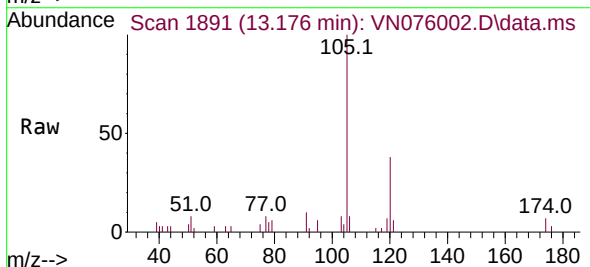
Instrument :
MSVOA_N
ClientSampleId :
SB-4

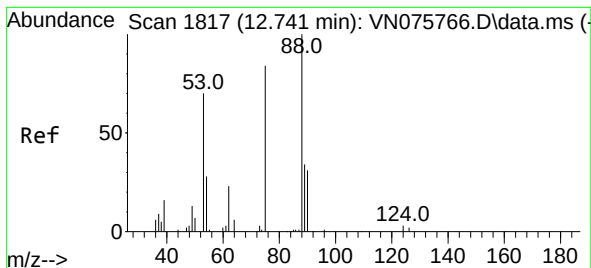
Tgt Ion: 75 Resp: 121731
Ion Ratio Lower Upper
75 100
77 1.2 82.6 247.8#



#80
1,3,5-Trimethylbenzene
Concen: 0.720 ug/l
RT: 13.176 min Scan# 1891
Delta R.T. 0.000 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

Tgt Ion: 105 Resp: 10579
Ion Ratio Lower Upper
105 100
120 47.9 24.7 74.1

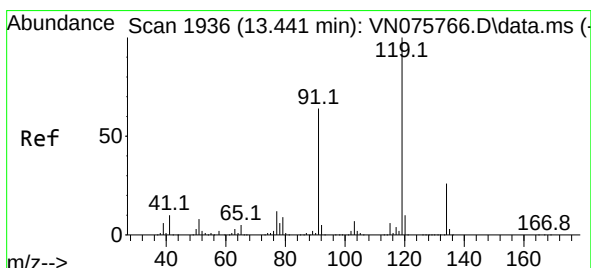
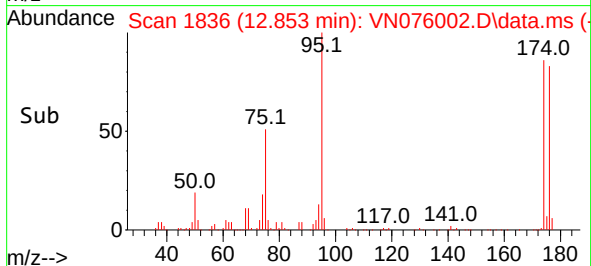
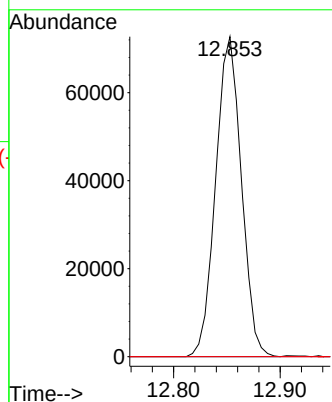
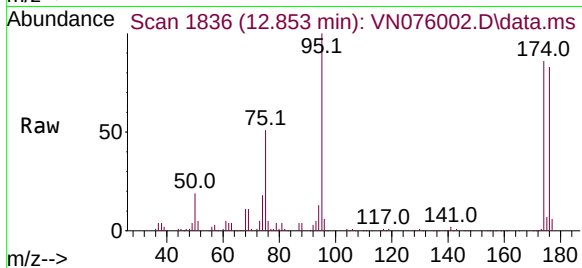




#81
 trans-1,4-Dichloro-2-butene
 Concen: 89.468 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN076002.D
 Acq: 28 Dec 2022 16:09

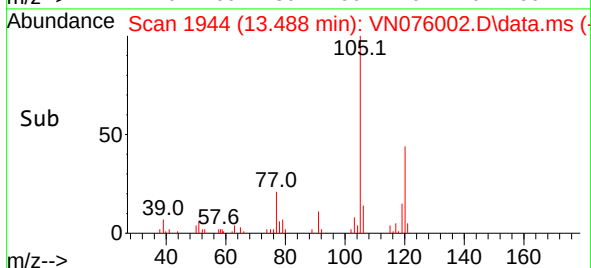
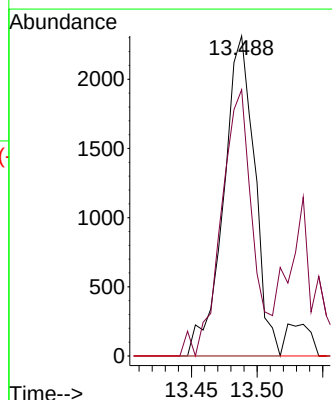
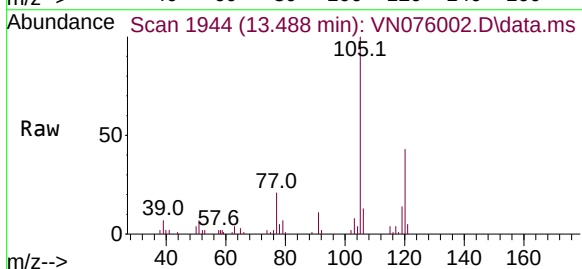
Instrument :
 MSVOA_N
 ClientSampleId :
 SB-4

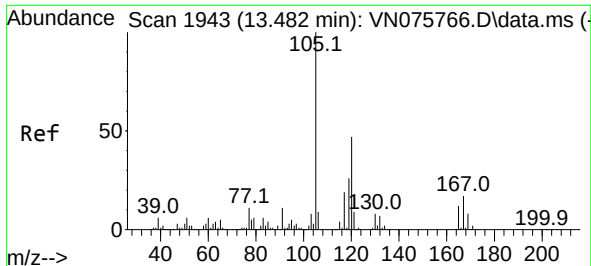
Tgt Ion: 75 Resp: 121731
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.8 110.6#
 89 0.0 39.5 59.3#



#83
 tert-Butylbenzene
 Concen: 0.293 ug/l
 RT: 13.488 min Scan# 1944
 Delta R.T. 0.047 min
 Lab File: VN076002.D
 Acq: 28 Dec 2022 16:09

Tgt Ion: 119 Resp: 3799
 Ion Ratio Lower Upper
 119 100
 91 84.4 31.9 95.5
 134 0.0 13.8 41.4#

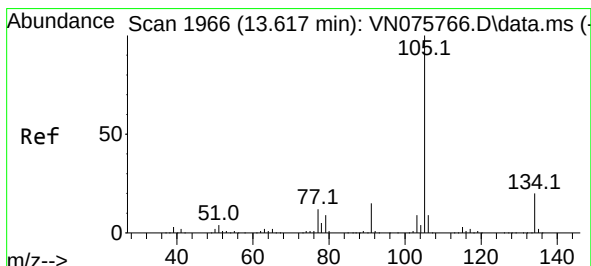
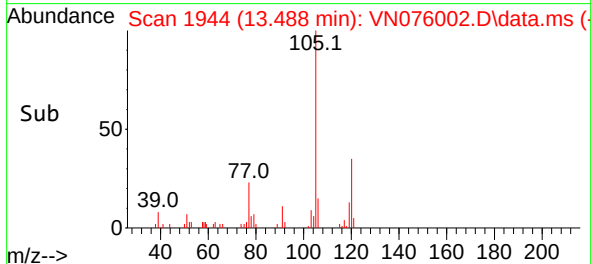
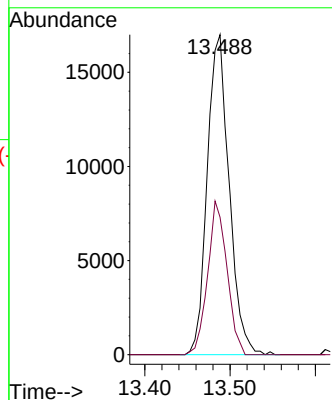
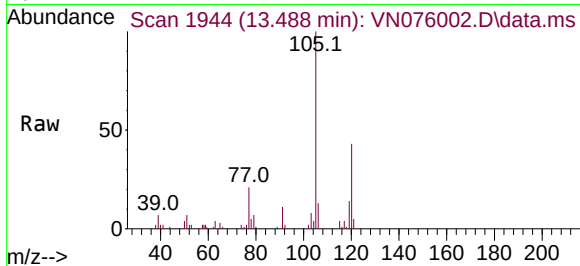




#84
1,2,4-Trimethylbenzene
Concen: 2.081 ug/l
RT: 13.488 min Scan# 1944
Delta R.T. 0.006 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

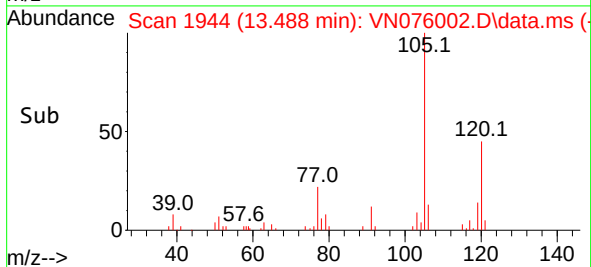
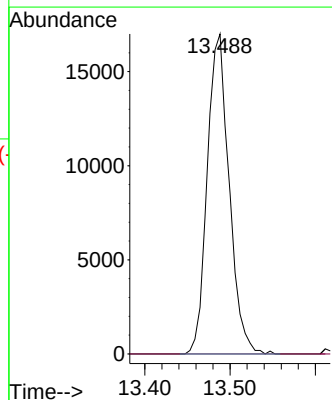
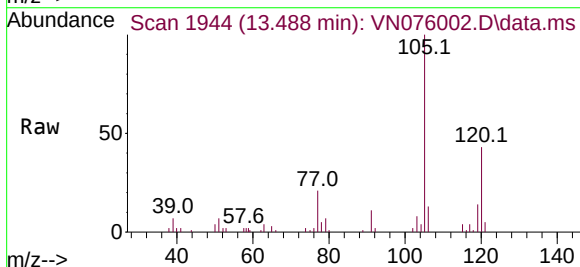
Instrument :
MSVOA_N
ClientSampleId :
SB-4

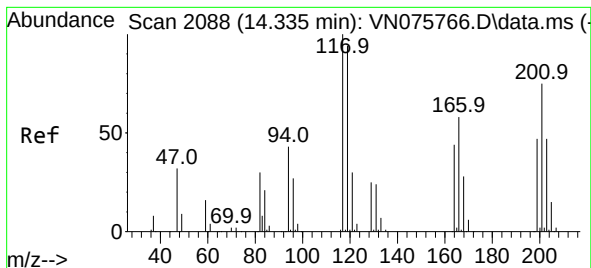
Tgt Ion:105 Resp: 30333
Ion Ratio Lower Upper
105 100
120 42.3 23.3 69.8



#85
sec-Butylbenzene
Concen: 1.696 ug/l
RT: 13.488 min Scan# 1944
Delta R.T. -0.129 min
Lab File: VN076002.D
Acq: 28 Dec 2022 16:09

Tgt Ion:105 Resp: 30333
Ion Ratio Lower Upper
105 100
134 0.0 10.1 30.1#





#90

Hexachloroethane

Concen: 0.236 ug/l

RT: 14.441 min Scan# 2106

Delta R.T. 0.106 min

Lab File: VN076002.D

Acq: 28 Dec 2022 16:09

Instrument :

MSVOA_N

ClientSampleId :

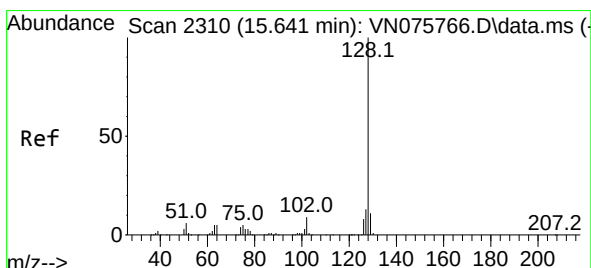
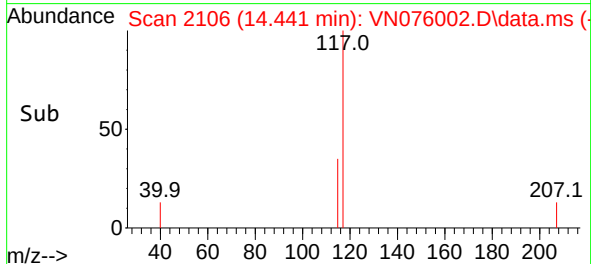
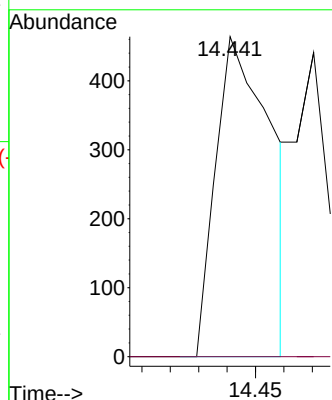
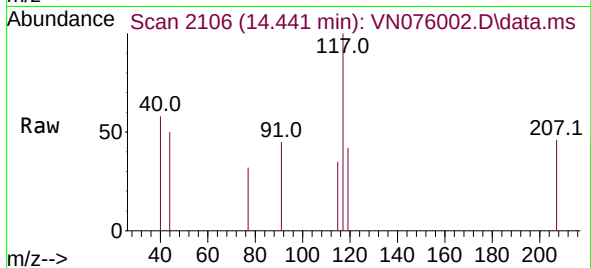
SB-4

Tgt Ion:117 Resp: 629

Ion Ratio Lower Upper

117 100

201 0.0 38.0 114.1#



#95

Naphthalene

Concen: 20.392 ug/l

RT: 15.641 min Scan# 2310

Delta R.T. -0.000 min

Lab File: VN076002.D

Acq: 28 Dec 2022 16:09

Tgt Ion:128 Resp: 251814

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

129 10.6 8.7 13.1

