

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121422\
 Data File : VN075802.D
 Acq On : 15 Dec 2022 06:03
 Operator : JC\MD
 Sample : N5990-11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP120722-2

Quant Time: Dec 15 07:45:28 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)

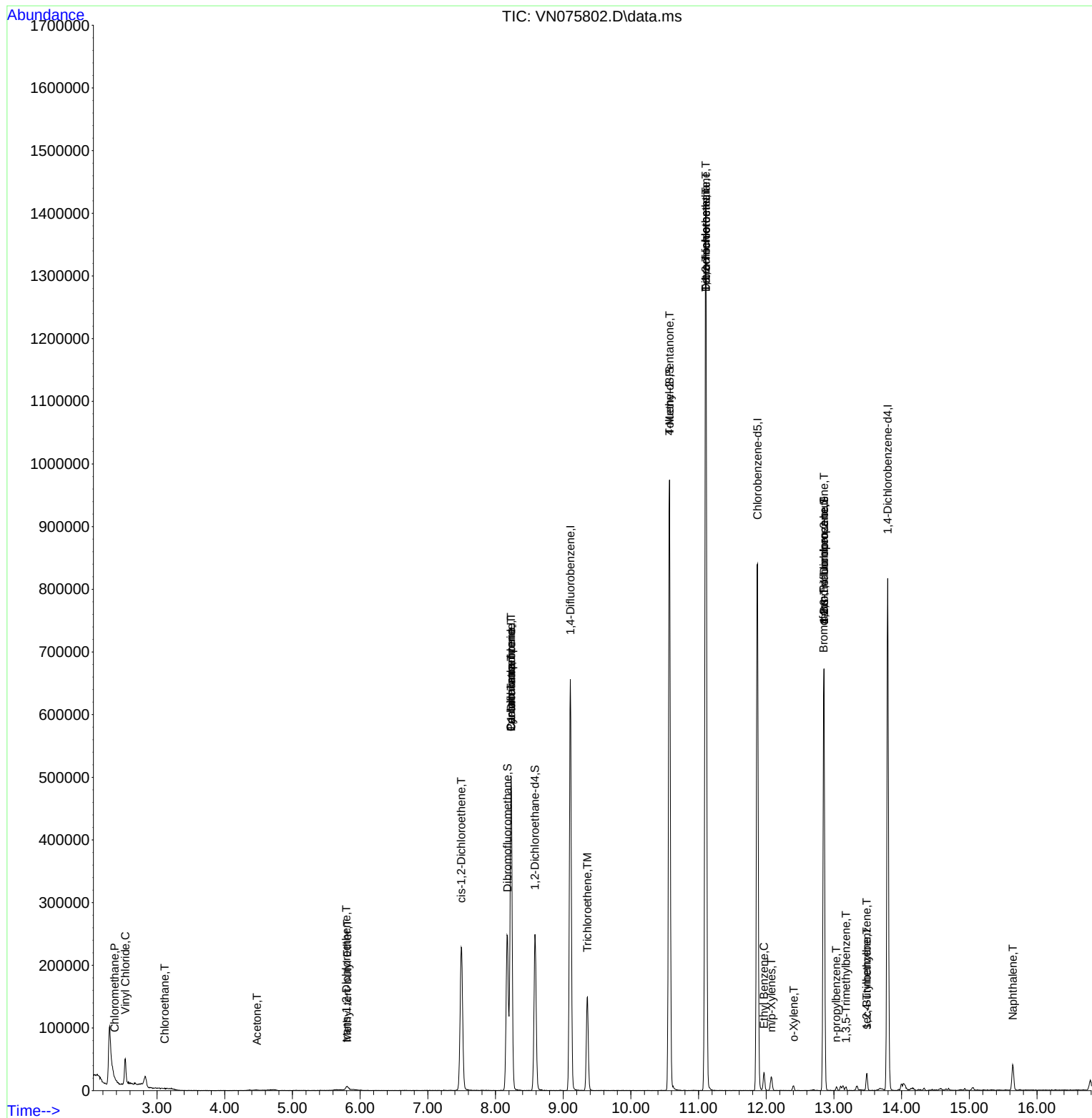
Internal Standards						
1) Pentafluorobenzene	8.230	168	391710	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	608206	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	533572	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	228547	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	198762	46.642	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.280%		
35) Dibromofluoromethane	8.177	113	180448	47.908	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.820%		
50) Toluene-d8	10.571	98	703428	49.950	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.900%		
62) 4-Bromofluorobenzene	12.853	95	221976	47.590	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.180%		
Target Compounds					Qvalue	
3) Chloromethane	2.371	50	978	0.283	ug/l #	40
4) Vinyl Chloride	2.530	62	37895	9.186	ug/l	93
6) Chloroethane	3.112	64	1218	0.399	ug/l #	44
16) Acetone	4.477	43	1264	0.860	ug/l #	39
19) Methyl tert-butyl Ether	5.812	73	5612	0.491	ug/l	97
21) trans-1,2-Dichloroethene	5.795	96	2176	0.572	ug/l #	90
27) cis-1,2-Dichloroethene	7.494	96	152513	33.540	ug/l	92
31) Cyclohexane	8.230	56	7665	1.256	ug/l #	22
36) 1,1-Dichloropropene	8.230	75	26718	5.340	ug/l #	50
38) Carbon Tetrachloride	8.230	117	37442	6.686	ug/l #	15
44) Trichloroethene	9.359	130	57130	13.136	ug/l	94
51) 4-Methyl-2-Pentanone	10.571	43	2991	0.746	ug/l #	1
55) 1,1,2-Trichloroethane	11.106	97	2850	0.722	ug/l #	1
60) Dibromochloromethane	11.106	129	312070	71.109	ug/l #	11
64) Tetrachloroethene	11.106	164	338439	90.139	ug/l	99
67) Ethyl Benzene	11.965	91	22157	1.199	ug/l	97
68) m/p-Xylenes	12.077	106	7841	1.072	ug/l	91
69) o-Xylene	12.406	106	2818	0.389	ug/l	83
71) Bromoform	12.847	173	1795	0.608	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	113243	24.581	ug/l #	1
78) n-propylbenzene	13.035	91	5210	0.286	ug/l	99
80) 1,3,5-Trimethylbenzene	13.176	105	2809	0.203	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.853	75	113243	88.479	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.482	105	16795	1.225	ug/l	98
85) sec-Butylbenzene	13.482	105	16795	0.998	ug/l #	56
95) Naphthalene	15.641	128	40250	5.273	ug/l	98

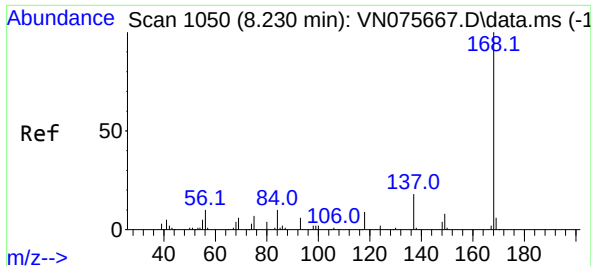
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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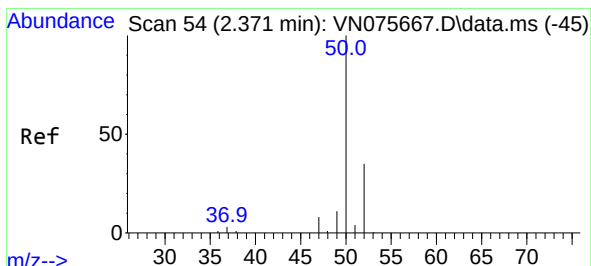
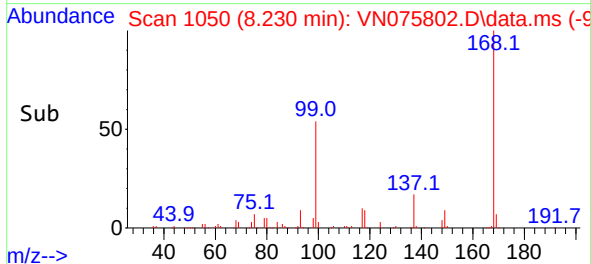
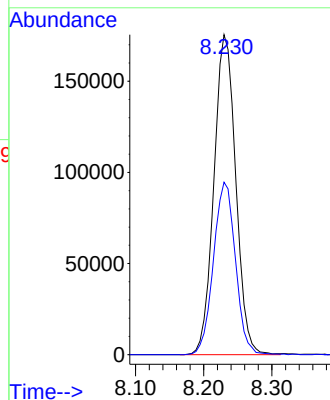
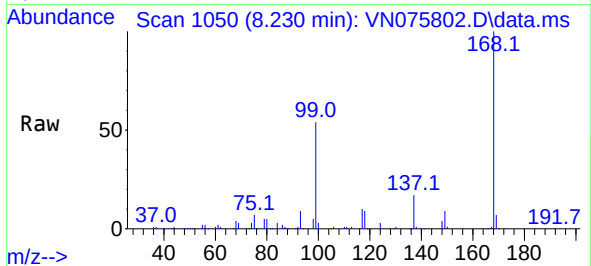




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

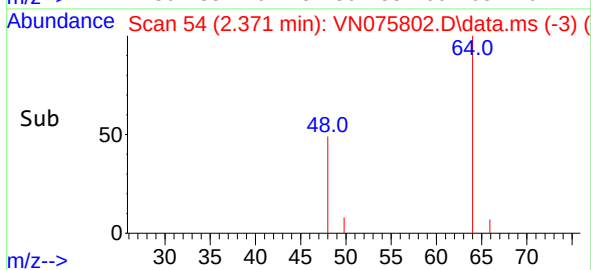
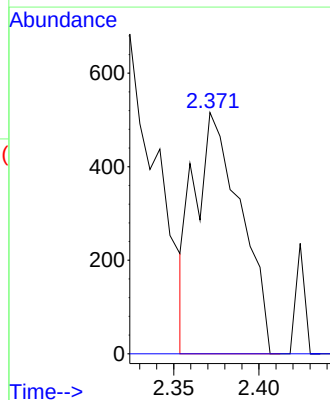
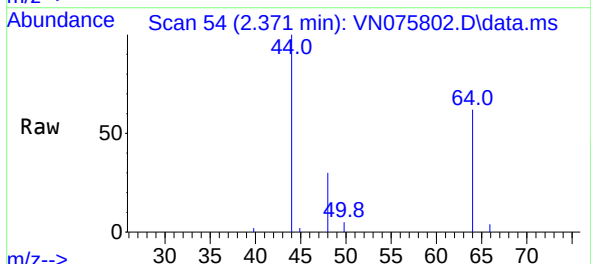
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2

Tgt Ion:168 Resp: 391710
Ion Ratio Lower Upper
168 100
99 53.9 44.2 66.4

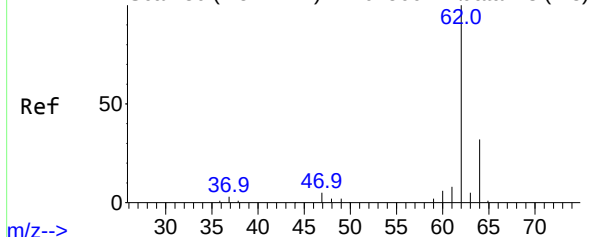


#3
Chloromethane
Concen: 0.283 ug/l
RT: 2.371 min Scan# 54
Delta R.T. 0.000 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

Tgt Ion: 50 Resp: 978
Ion Ratio Lower Upper
50 100
52 0.0 27.7 41.5#



Abundance Scan 80 (2.524 min): VN075667.D\data.ms (-73)



#4

Vinyl Chloride

Concen: 9.186 ug/l

RT: 2.530 min Scan# 81

Delta R.T. 0.006 min

Lab File: VN075802.D

Acq: 15 Dec 2022 06:03

Instrument :

MSVOA_N

ClientSampleId :

DUP120722-2

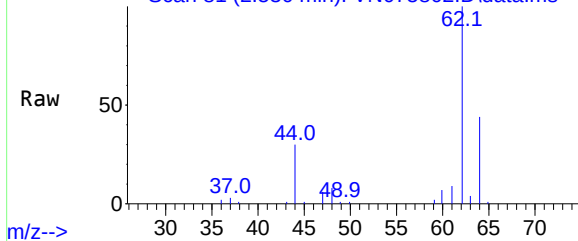
Tgt Ion: 62 Resp: 37895

Ion Ratio Lower Upper

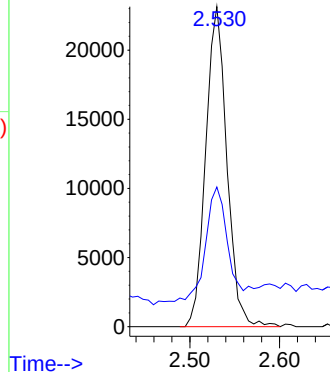
62 100

64 34.7 24.9 37.3

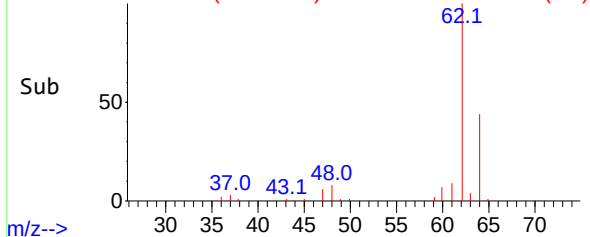
Abundance Scan 81 (2.530 min): VN075802.D\data.ms



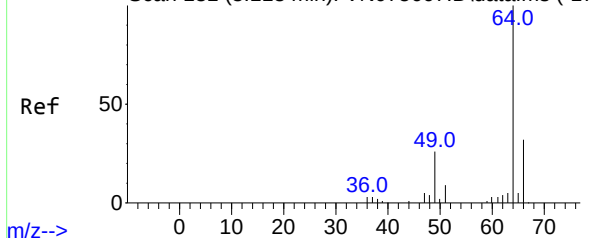
Abundance



Abundance Scan 81 (2.530 min): VN075802.D\data.ms (-29)



Abundance Scan 181 (3.118 min): VN075667.D\data.ms (-17)



#6

Chloroethane

Concen: 0.399 ug/l

RT: 3.112 min Scan# 180

Delta R.T. -0.006 min

Lab File: VN075802.D

Acq: 15 Dec 2022 06:03

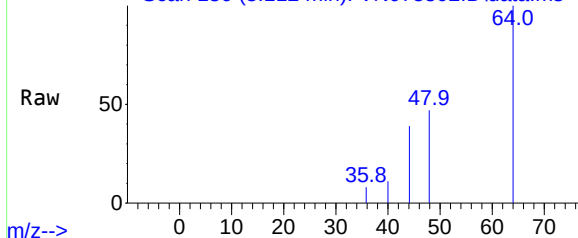
Tgt Ion: 64 Resp: 1218

Ion Ratio Lower Upper

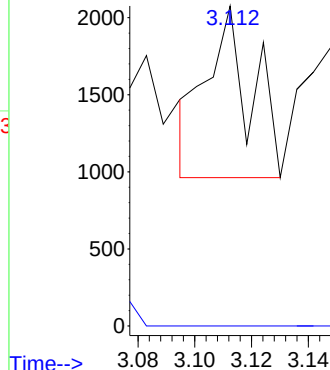
64 100

66 0.0 24.6 36.8#

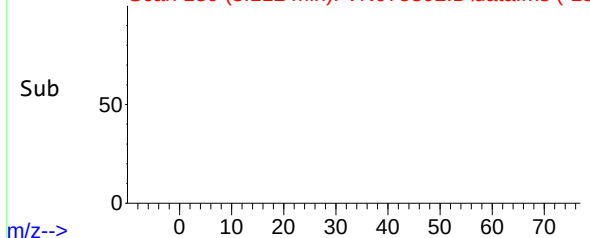
Abundance Scan 180 (3.112 min): VN075802.D\data.ms

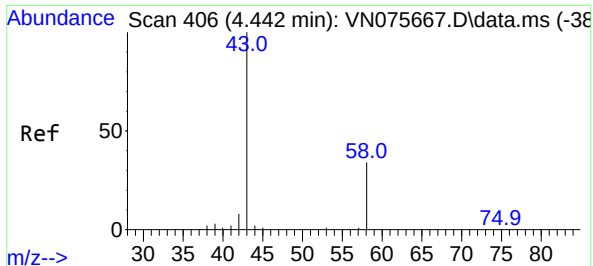


Abundance



Abundance Scan 180 (3.112 min): VN075802.D\data.ms (-13)

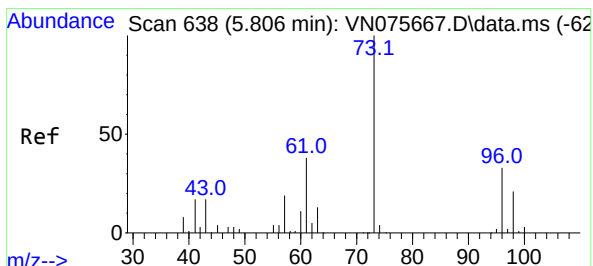
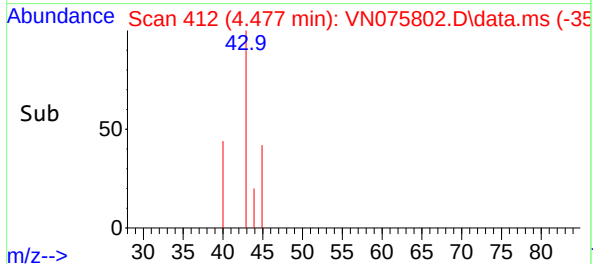
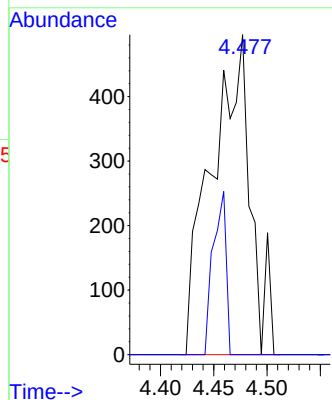
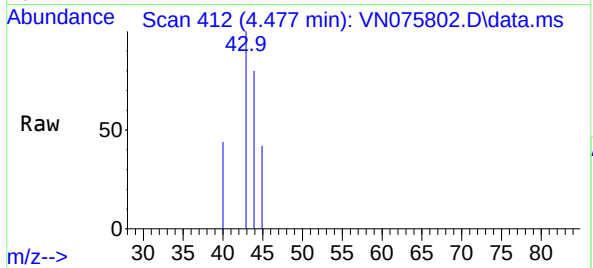




#16
Acetone
Concen: 0.860 ug/l
RT: 4.477 min Scan# 412
Delta R.T. 0.035 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

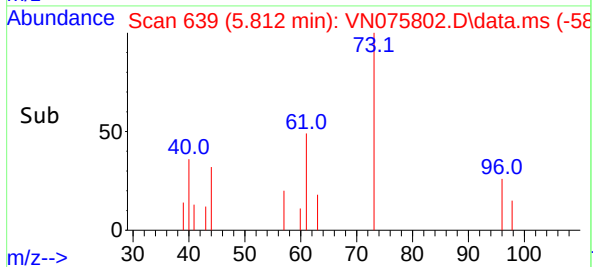
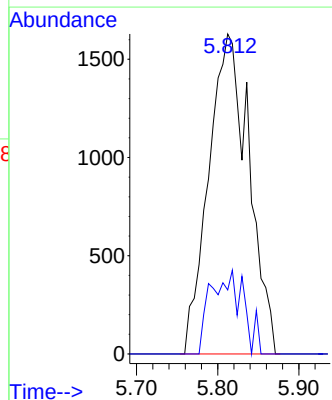
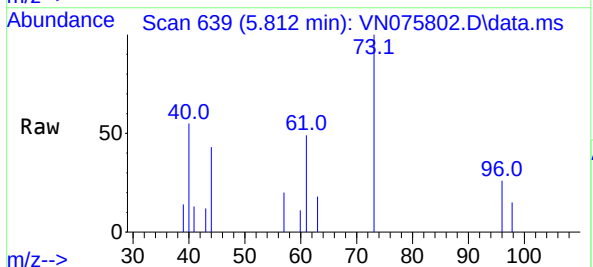
Instrument :
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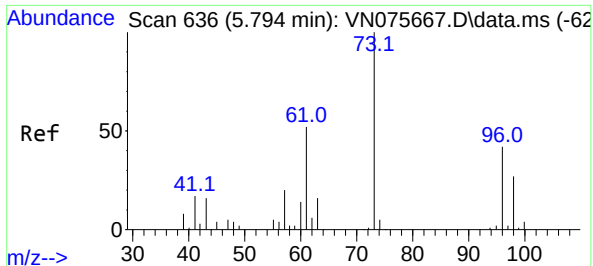
Tgt Ion: 43 Resp: 1264
Ion Ratio Lower Upper
43 100
58 0.0 28.6 43.0#



#19
Methyl tert-butyl Ether
Concen: 0.491 ug/l
RT: 5.812 min Scan# 639
Delta R.T. 0.006 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

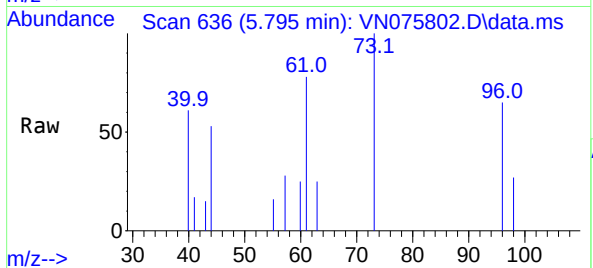
Tgt Ion: 73 Resp: 5612
Ion Ratio Lower Upper
73 100
57 20.0 17.1 25.7





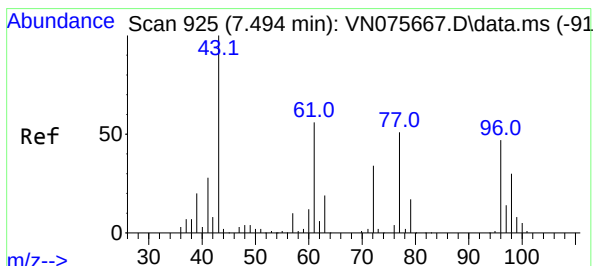
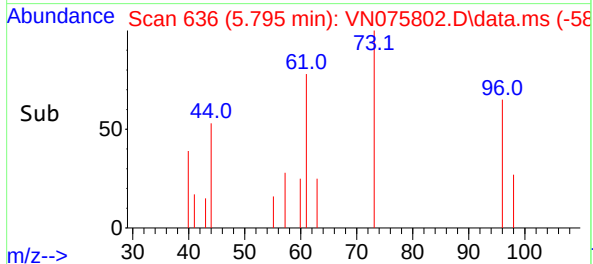
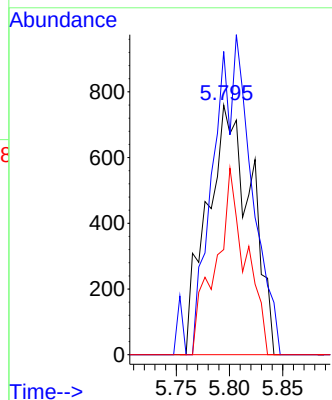
#21
trans-1,2-Dichloroethene
Concen: 0.572 ug/l
RT: 5.795 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2



Tgt Ion: 96 Resp: 2176

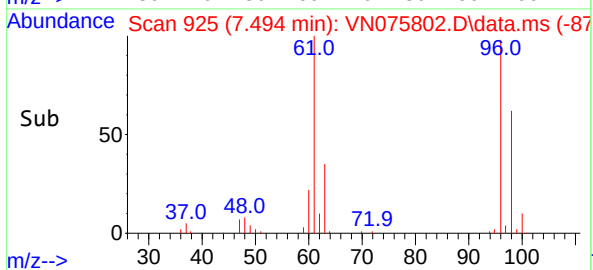
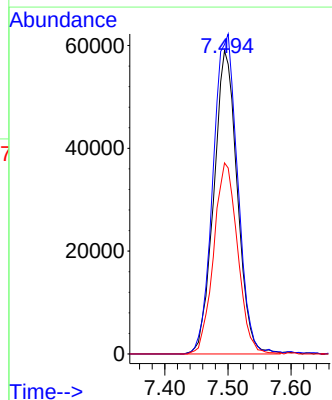
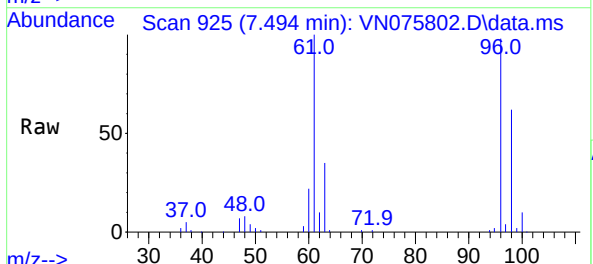
Ion	Ratio	Lower	Upper
96	100		
61	121.4	98.1	147.1
98	42.1	51.4	77.2#

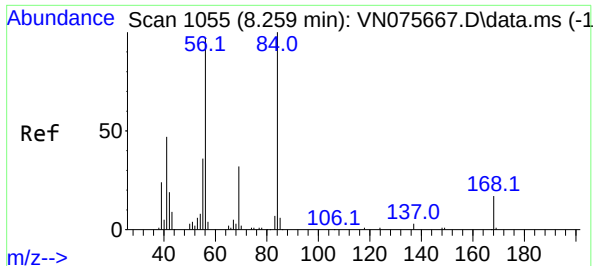


#27
cis-1,2-Dichloroethene
Concen: 33.540 ug/l
RT: 7.494 min Scan# 925
Delta R.T. 0.000 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

Tgt Ion: 96 Resp: 152513

Ion	Ratio	Lower	Upper
96	100		
61	110.6	0.0	247.8
98	64.1	0.0	128.4

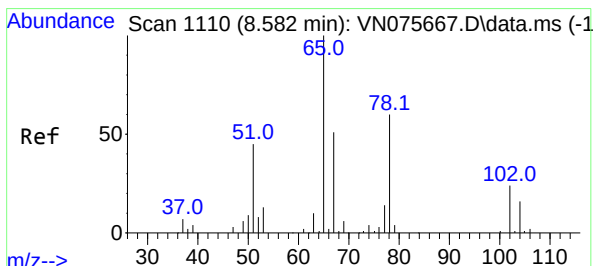
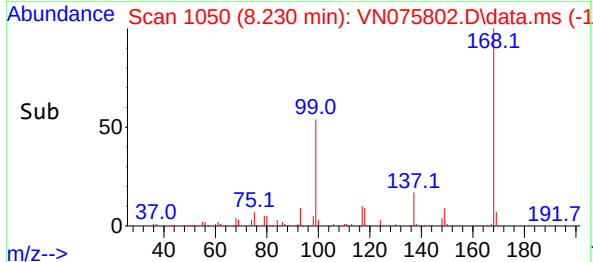
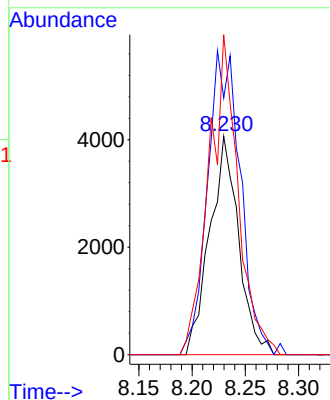
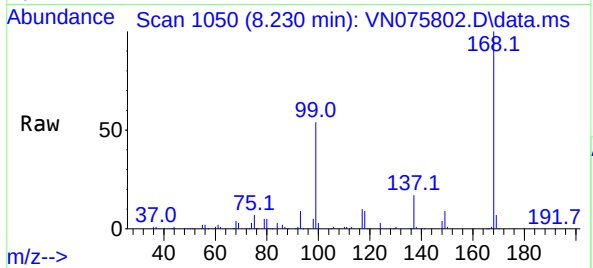




#31
Cyclohexane
Concen: 1.256 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.035 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

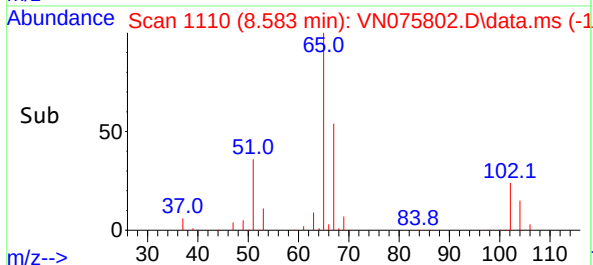
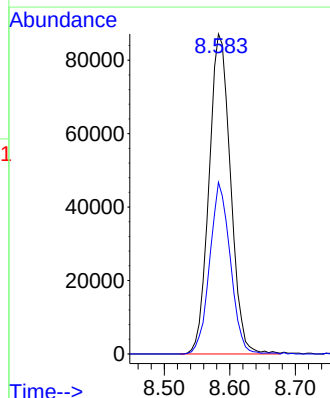
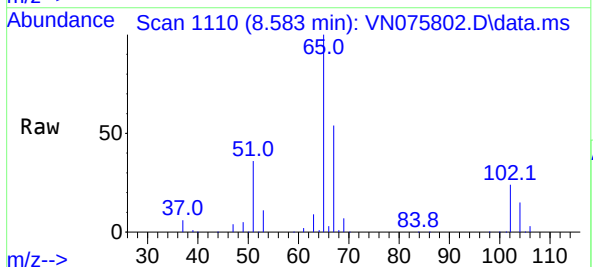
Instrument :
MSVOA_N
ClientSampleId :
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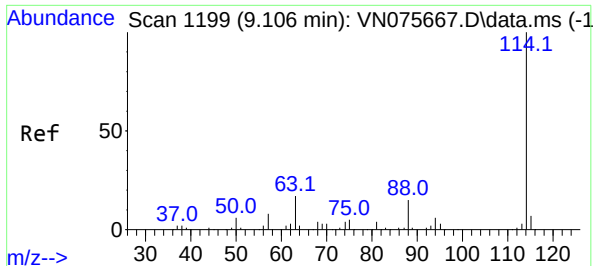
Tgt Ion: 56 Resp: 7665
Ion Ratio Lower Upper
56 100
69 117.6 24.7 37.1#
84 146.6 76.5 114.7#



#33
1,2-Dichloroethane-d4
Concen: 46.642 ug/l
RT: 8.583 min Scan# 1110
Delta R.T. 0.000 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

Tgt Ion: 65 Resp: 198762
Ion Ratio Lower Upper
65 100
67 51.3 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: VN075802.D

Acq: 15 Dec 2022 06:03

Instrument :

MSVOA_N

ClientSampleId :

DUP120722-2

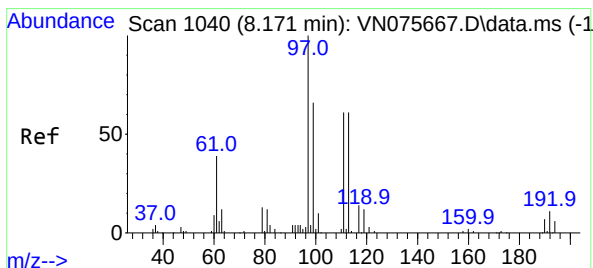
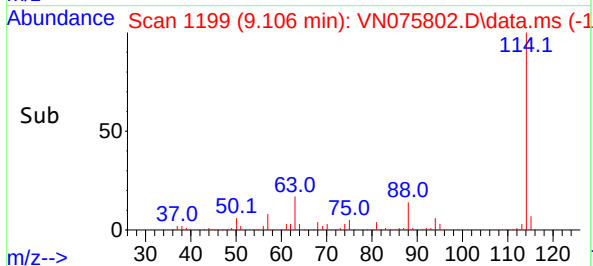
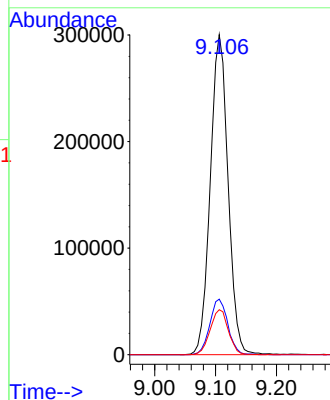
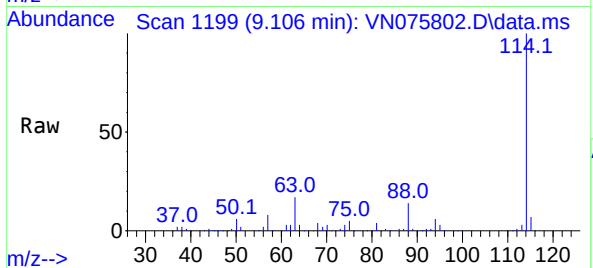
Tgt Ion:114 Resp: 608206

Ion Ratio Lower Upper

114 100

63 17.3 0.0 34.4

88 14.1 0.0 28.8



#35

Dibromofluoromethane

Concen: 47.908 ug/l

RT: 8.177 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VN075802.D

Acq: 15 Dec 2022 06:03

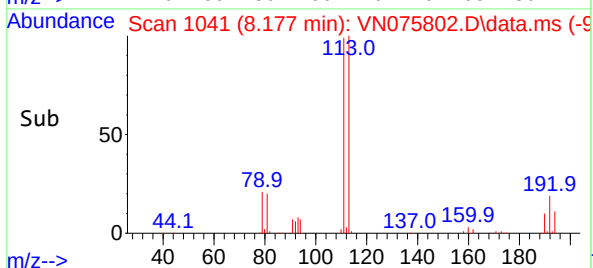
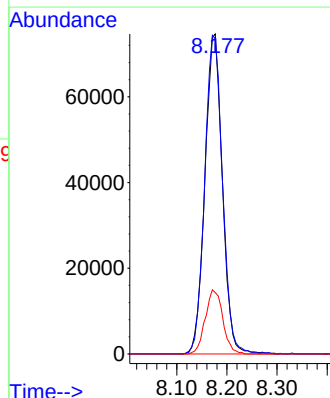
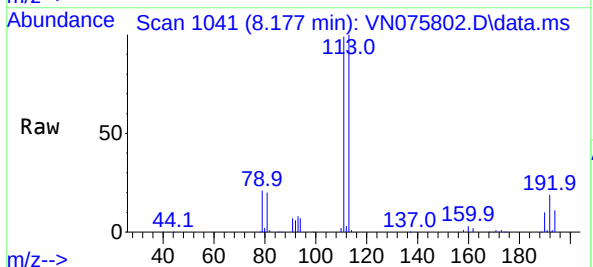
Tgt Ion:113 Resp: 180448

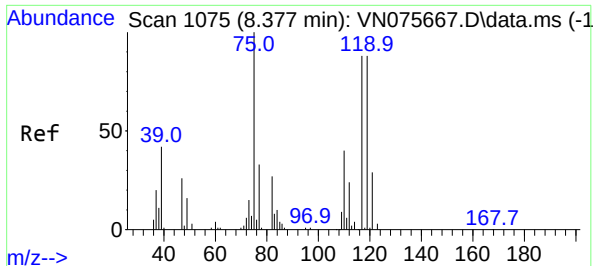
Ion Ratio Lower Upper

113 100

111 101.4 83.4 125.2

192 20.2 16.1 24.1





#36

1,1-Dichloropropene

Concen: 5.340 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN075802.D

Acq: 15 Dec 2022 06:03

Instrument :

MSVOA_N

ClientSampleId :

DUP120722-2

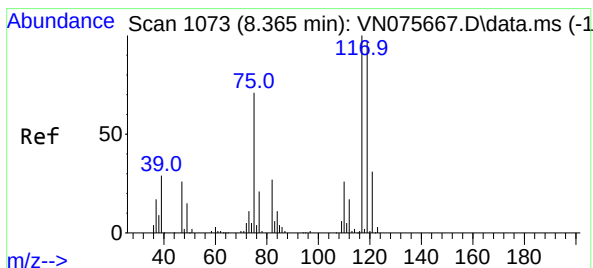
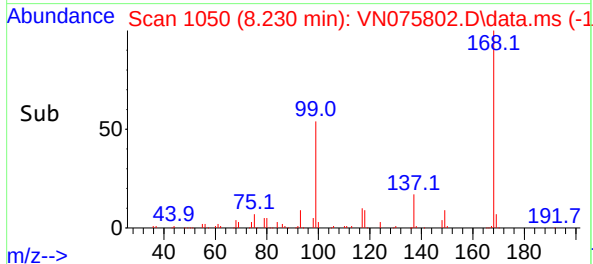
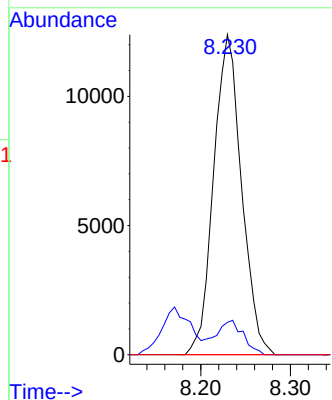
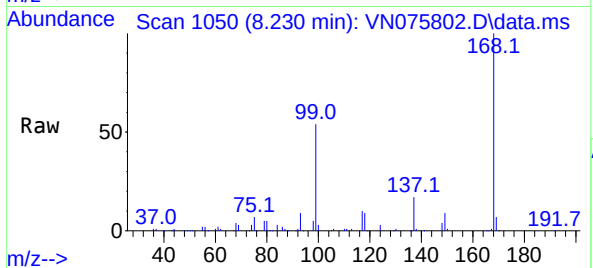
Tgt Ion: 75 Resp: 26718

Ion Ratio Lower Upper

75 100

110 10.1 18.8 56.4#

77 0.0 24.1 36.1#



#38

Carbon Tetrachloride

Concen: 6.686 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.135 min

Lab File: VN075802.D

Acq: 15 Dec 2022 06:03

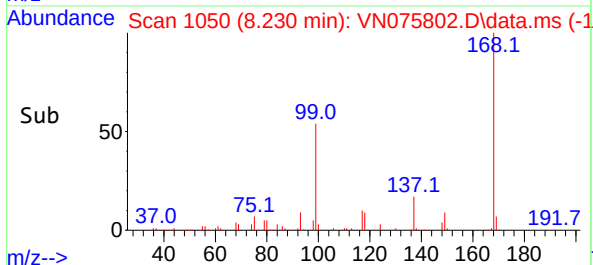
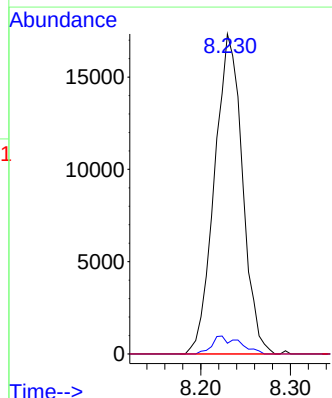
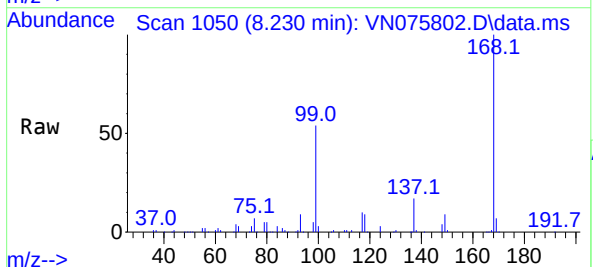
Tgt Ion: 117 Resp: 37442

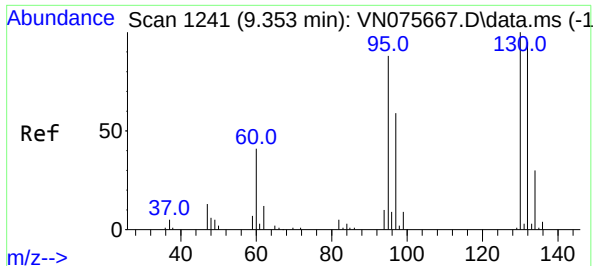
Ion Ratio Lower Upper

117 100

119 3.3 76.1 114.1#

121 0.0 24.5 36.7#





#44

Trichloroethene

Concen: 13.136 ug/l

RT: 9.359 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN075802.D

Acq: 15 Dec 2022 06:03

Instrument :

MSVOA_N

ClientSampleId :

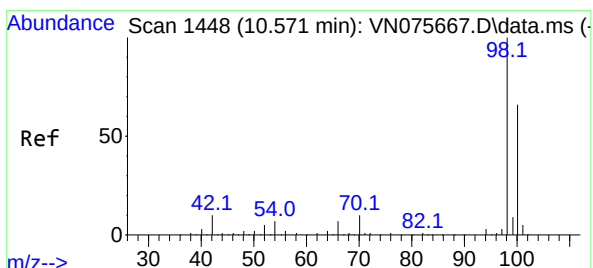
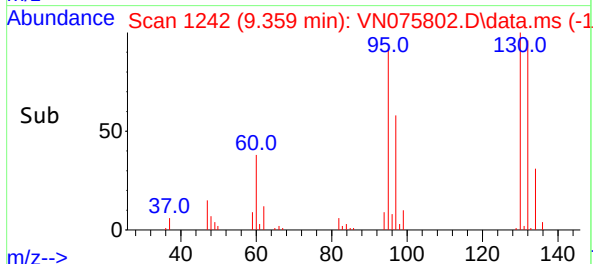
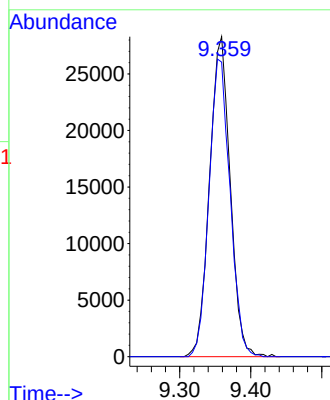
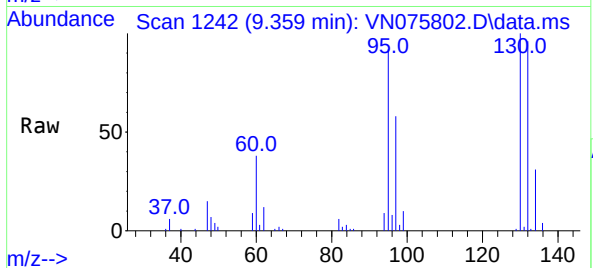
DUP120722-2

Tgt Ion:130 Resp: 57130

Ion Ratio Lower Upper

130 100

95 92.0 0.0 195.4



#50

Toluene-d8

Concen: 49.950 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. 0.000 min

Lab File: VN075802.D

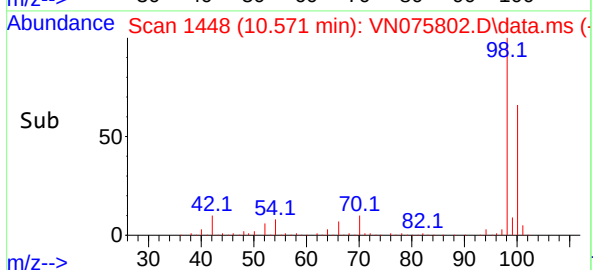
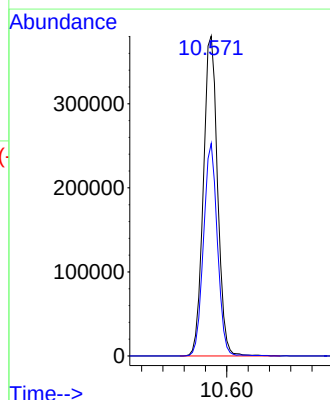
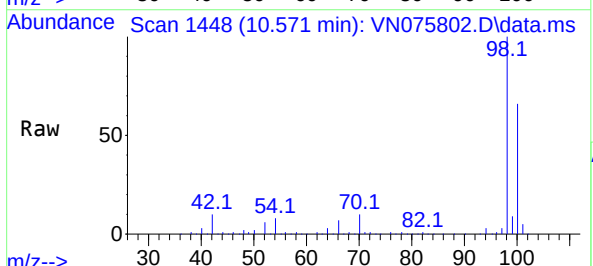
Acq: 15 Dec 2022 06:03

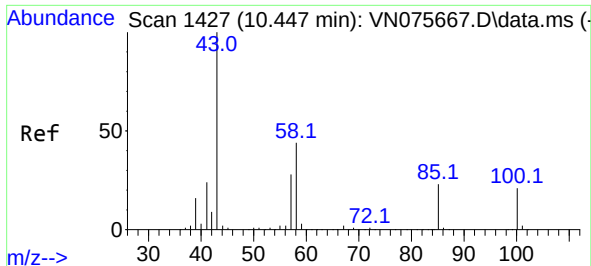
Tgt Ion: 98 Resp: 703428

Ion Ratio Lower Upper

98 100

100 64.9 52.1 78.1

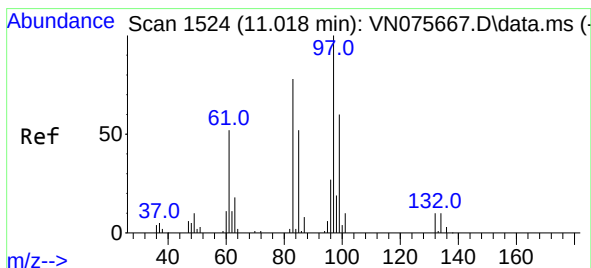
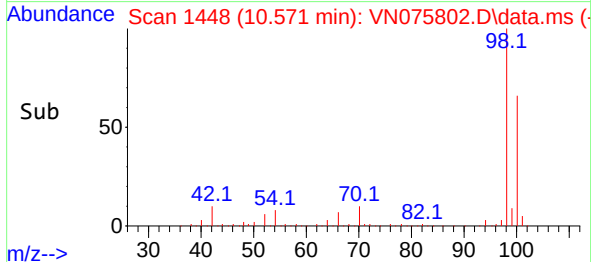
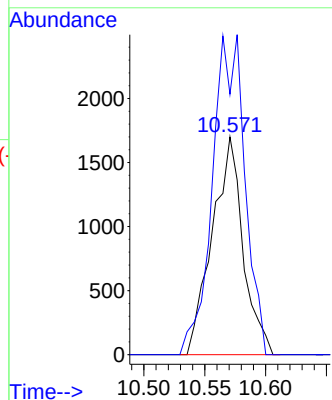
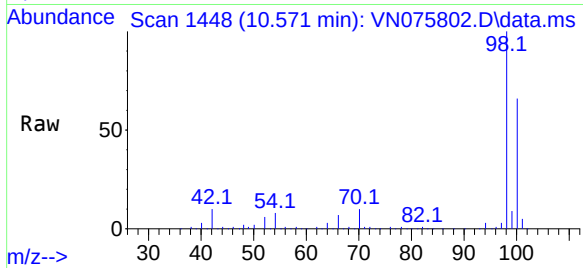




#51
4-Methyl-2-Pentanone
Concen: 0.746 ug/l
RT: 10.571 min Scan# 1427
Delta R.T. 0.124 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

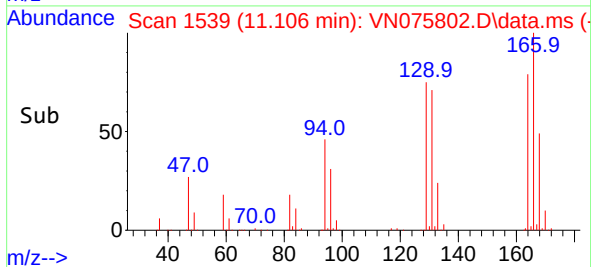
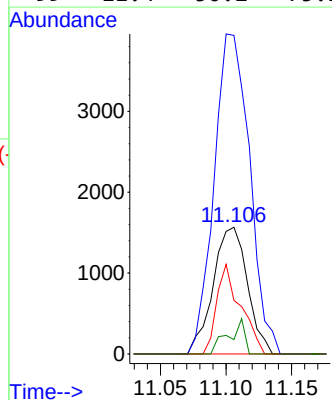
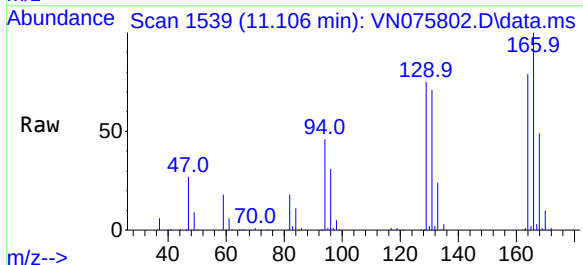
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2

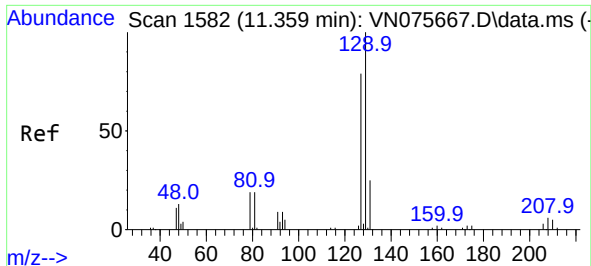
Tgt Ion: 43 Resp: 2991
Ion Ratio Lower Upper
43 100
58 154.6 35.5 53.3#



#55
1,1,2-Trichloroethane
Concen: 0.722 ug/l
RT: 11.106 min Scan# 1539
Delta R.T. 0.088 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

Tgt Ion: 97 Resp: 2850
Ion Ratio Lower Upper
97 100
83 251.4 65.0 97.4#
85 42.3 43.0 64.6#
99 11.4 50.2 75.2#

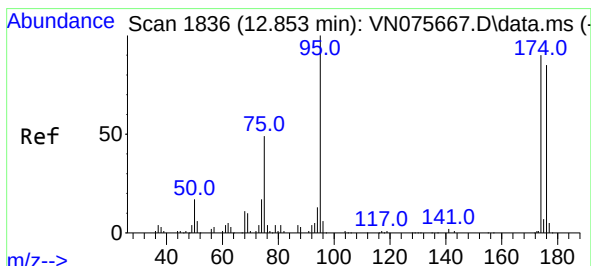
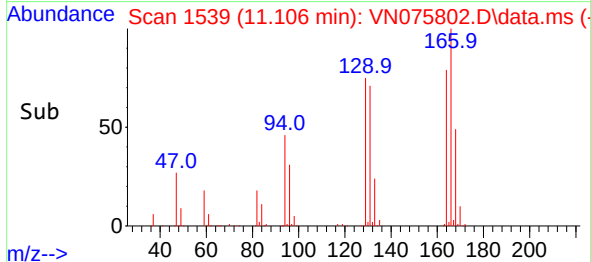
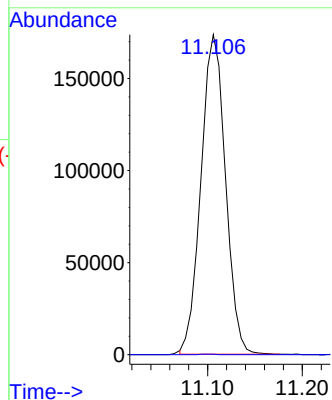
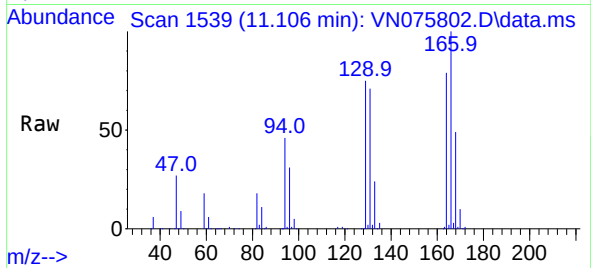




#60
Dibromochloromethane
Concen: 71.109 ug/l
RT: 11.106 min Scan# 11
Delta R.T. -0.253 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

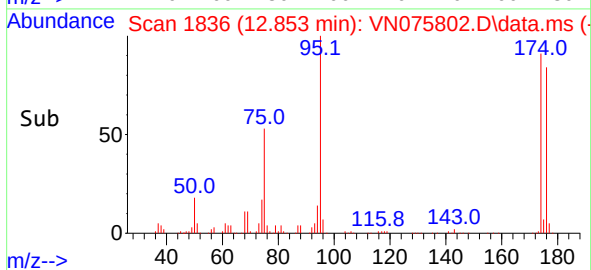
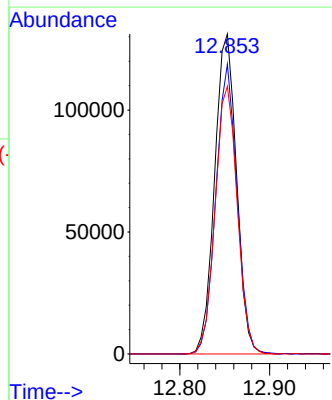
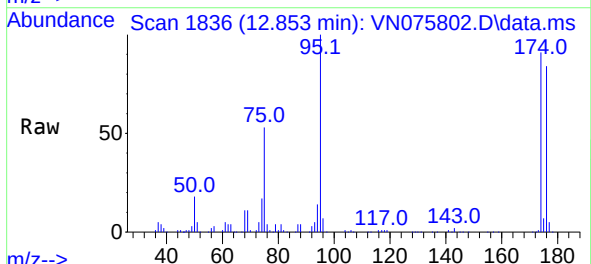
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2

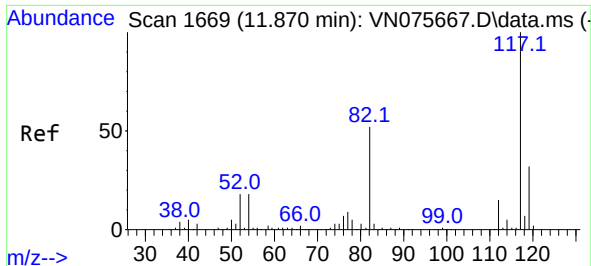
Tgt Ion:129 Resp: 312070
Ion Ratio Lower Upper
129 100
127 0.1 38.3 114.9#



#62
4-Bromofluorobenzene
Concen: 47.590 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

Tgt Ion: 95 Resp: 221976
Ion Ratio Lower Upper
95 100
174 87.7 0.0 171.6
176 84.3 0.0 169.2

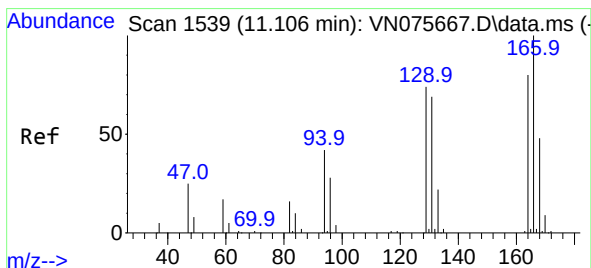
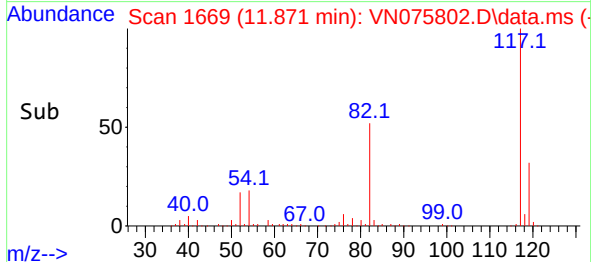
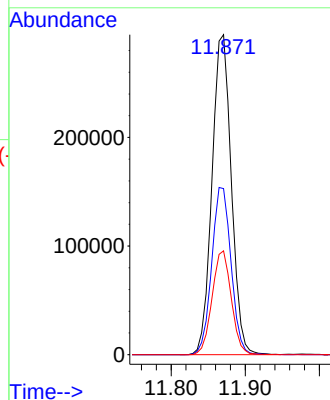
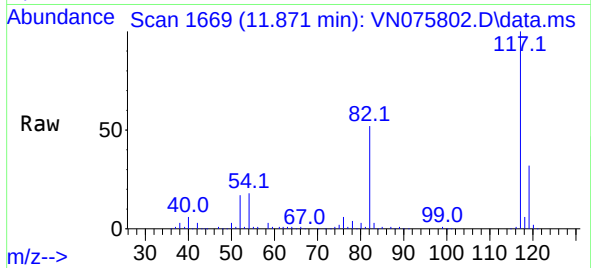




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

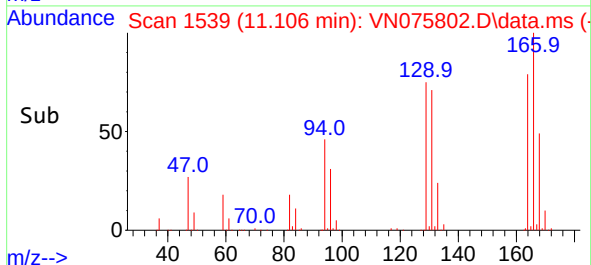
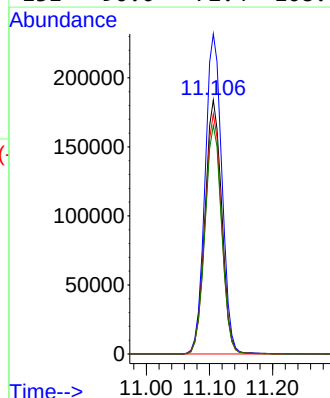
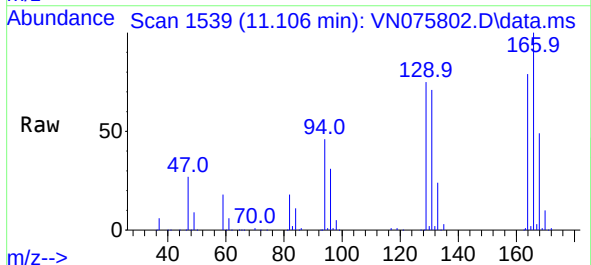
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2

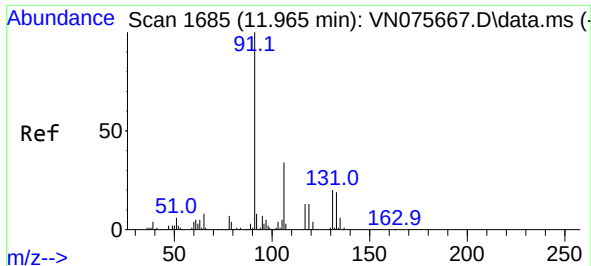
Tgt Ion:117 Resp: 533572
Ion Ratio Lower Upper
117 100
82 51.9 41.3 61.9
119 32.5 24.6 37.0



#64
Tetrachloroethene
Concen: 90.139 ug/l
RT: 11.106 min Scan# 1539
Delta R.T. 0.000 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

Tgt Ion:164 Resp: 338439
Ion Ratio Lower Upper
164 100
166 126.0 101.9 152.9
129 94.5 74.2 111.2
131 90.0 72.4 108.6

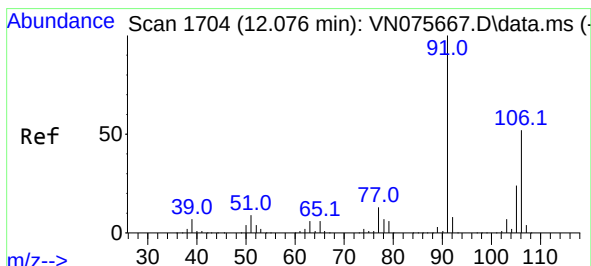
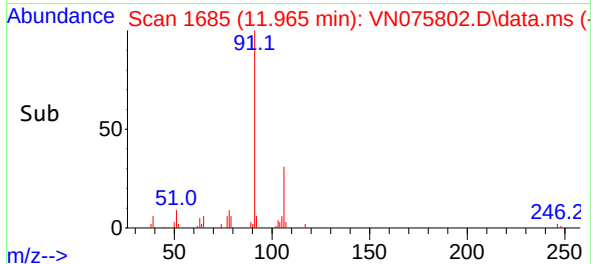
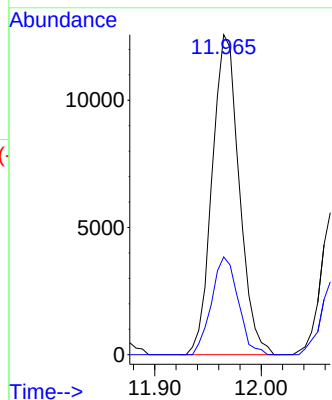
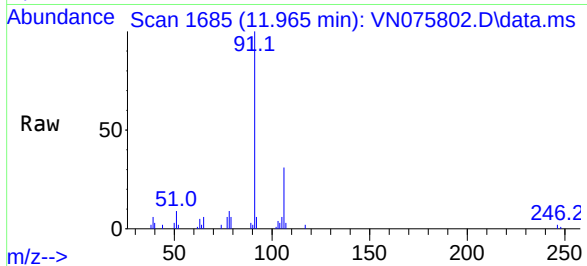




#67
Ethyl Benzene
Concen: 1.199 ug/l
RT: 11.965 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

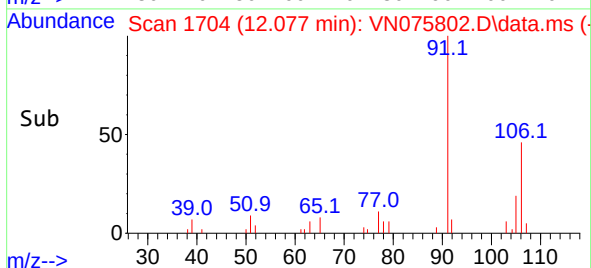
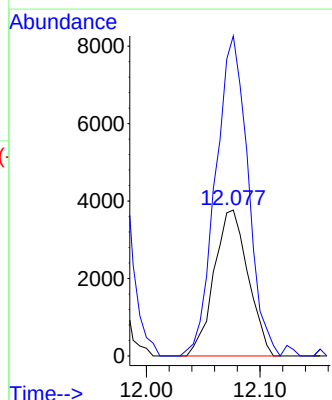
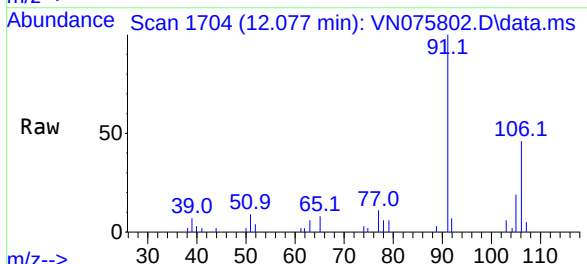
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2

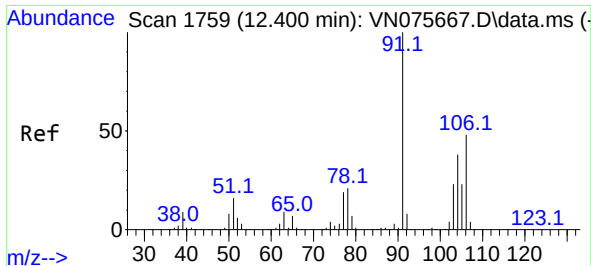
Tgt Ion: 91 Resp: 22157
Ion Ratio Lower Upper
91 100
106 30.6 25.7 38.5



#68
m/p-Xylenes
Concen: 1.072 ug/l
RT: 12.077 min Scan# 1704
Delta R.T. 0.000 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

Tgt Ion: 106 Resp: 7841
Ion Ratio Lower Upper
106 100
91 209.0 156.6 235.0

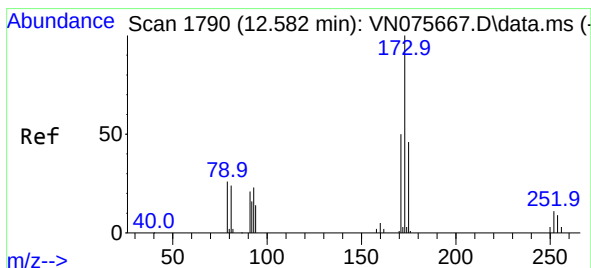
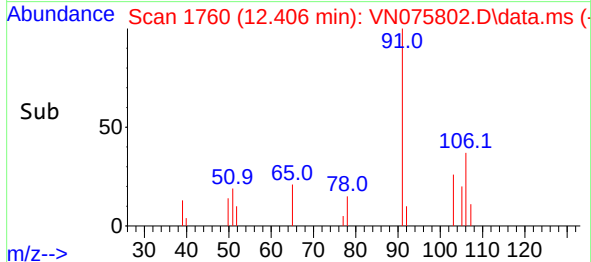
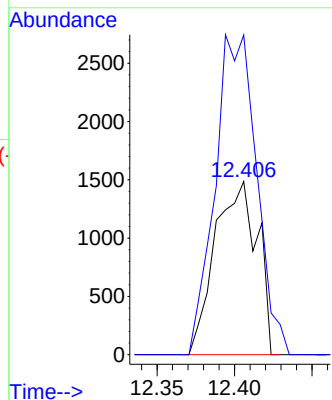
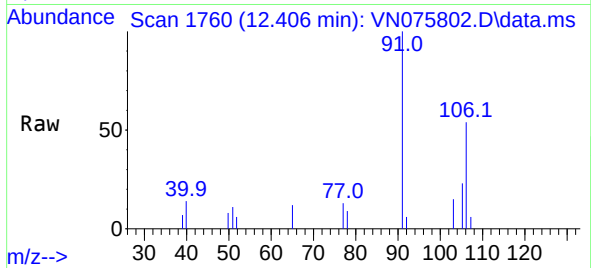




#69
o-Xylene
Concen: 0.389 ug/l
RT: 12.406 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

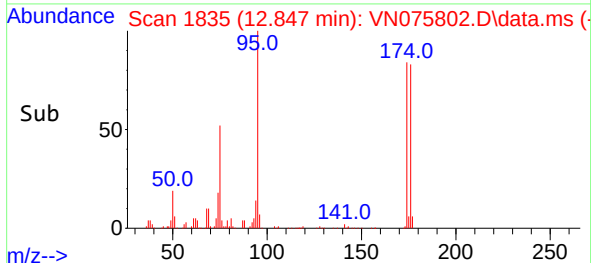
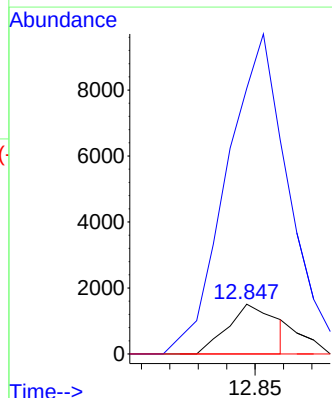
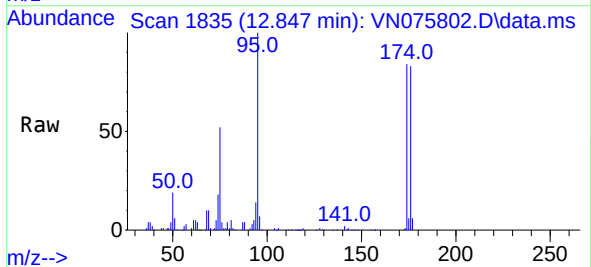
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2

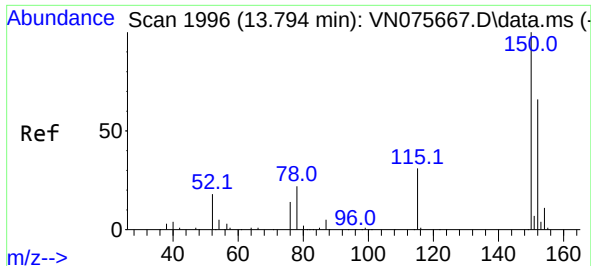
Tgt Ion:106 Resp: 2818
Ion Ratio Lower Upper
106 100
91 181.9 103.8 311.6



#71
Bromoform
Concen: 0.608 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.265 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

Tgt Ion:173 Resp: 1795
Ion Ratio Lower Upper
173 100
175 694.3 24.3 72.8#
254 0.0 0.0 0.0

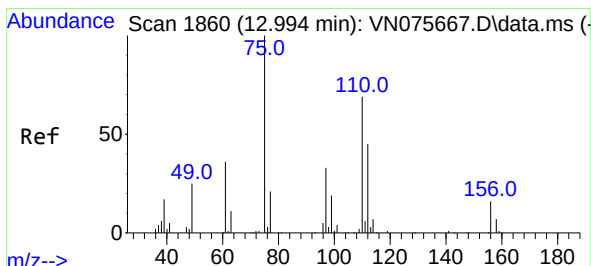
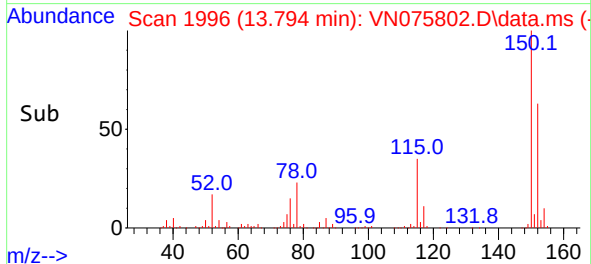
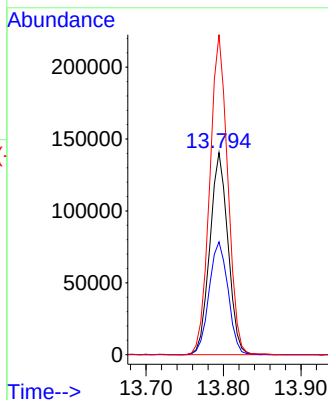
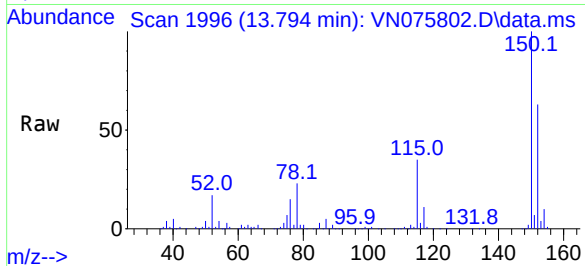




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

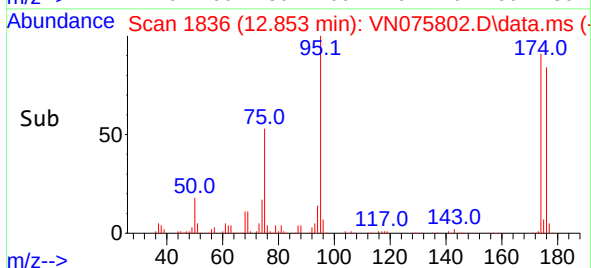
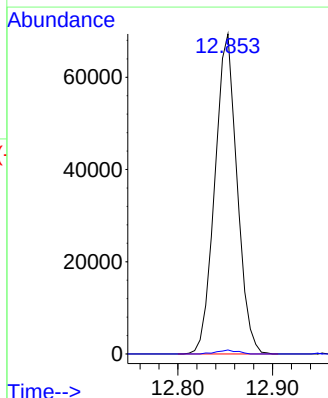
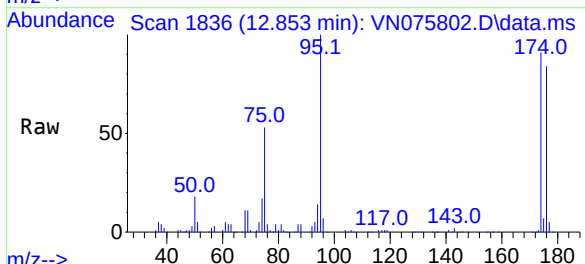
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2

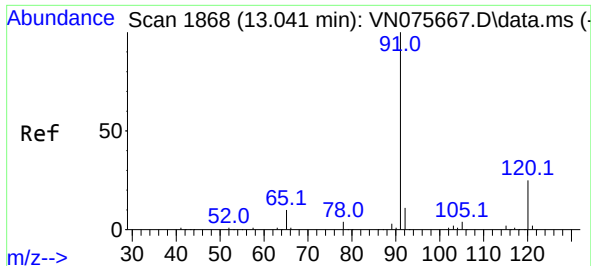
Tgt Ion:152 Resp: 228547
Ion Ratio Lower Upper
152 100
115 58.4 29.1 87.4
150 157.4 0.0 347.0



#76
1,2,3-Trichloropropane
Concen: 24.581 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

Tgt Ion: 75 Resp: 113243
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#

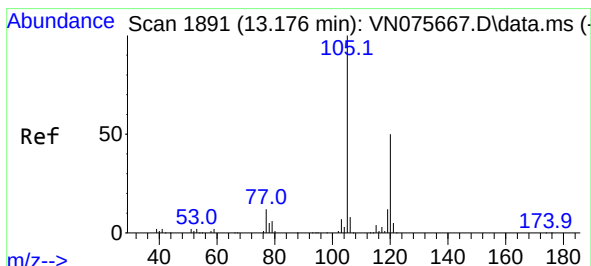
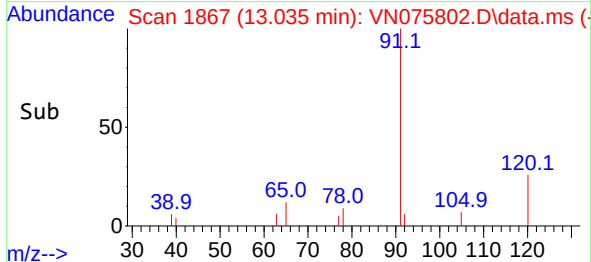
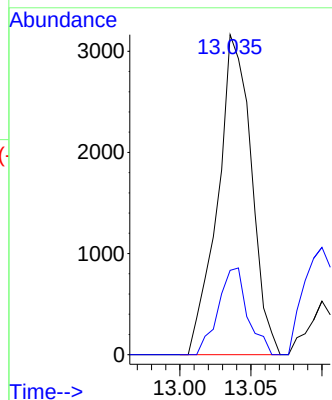
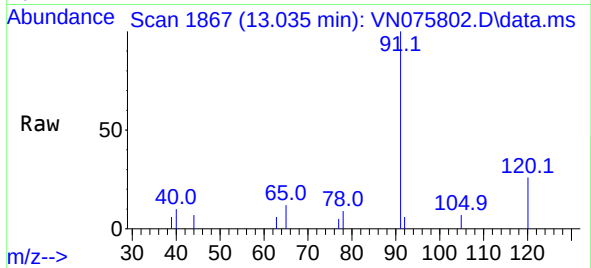




#78
n-propylbenzene
Concen: 0.286 ug/l
RT: 13.035 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

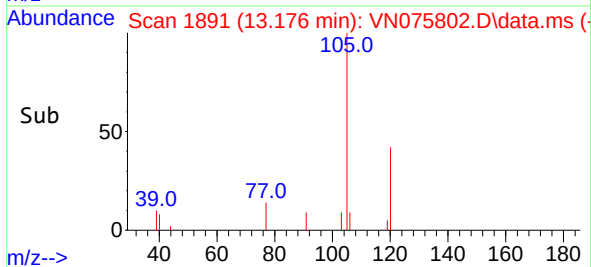
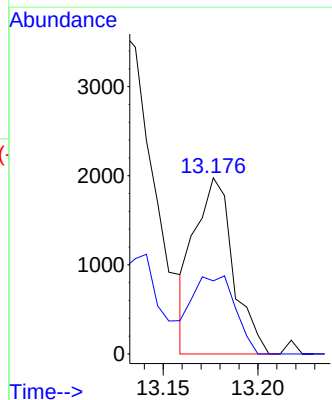
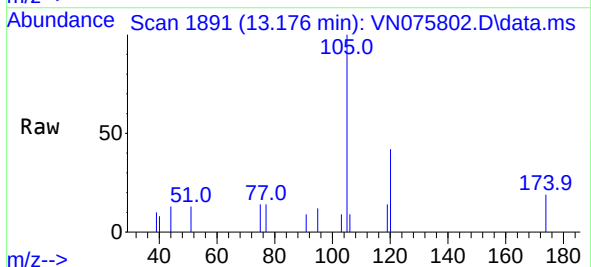
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2

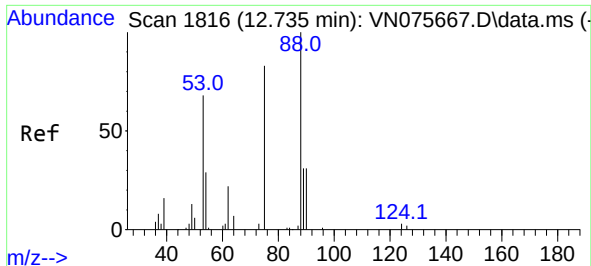
Tgt Ion: 91 Resp: 5210
Ion Ratio Lower Upper
91 100
120 23.7 12.0 36.1



#80
1,3,5-Trimethylbenzene
Concen: 0.203 ug/l
RT: 13.176 min Scan# 1891
Delta R.T. 0.000 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

Tgt Ion: 105 Resp: 2809
Ion Ratio Lower Upper
105 100
120 53.5 24.7 74.1

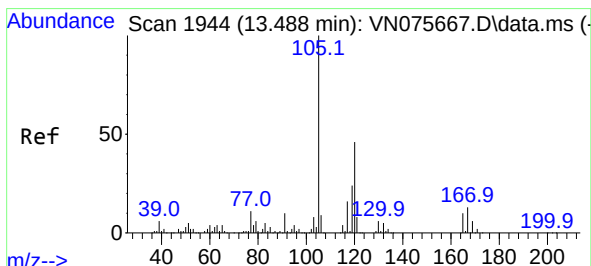
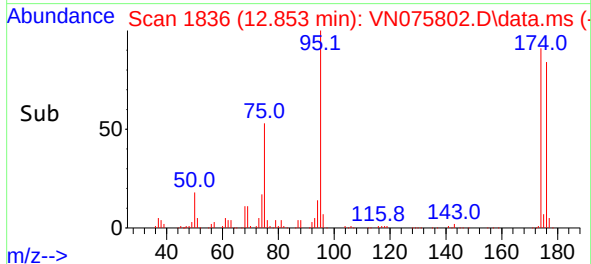
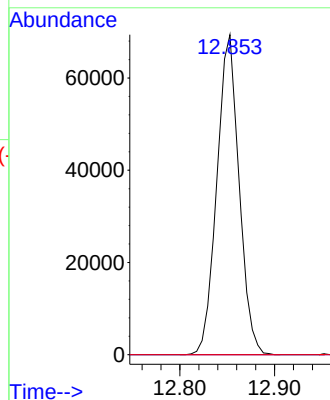
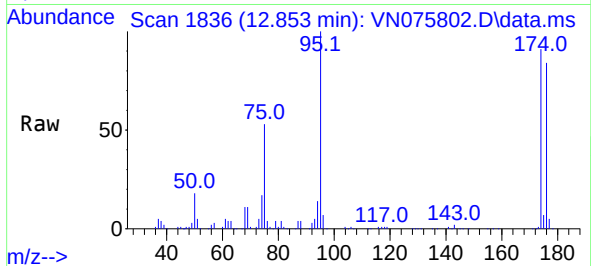




#81
trans-1,4-Dichloro-2-butene
Concen: 88.479 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

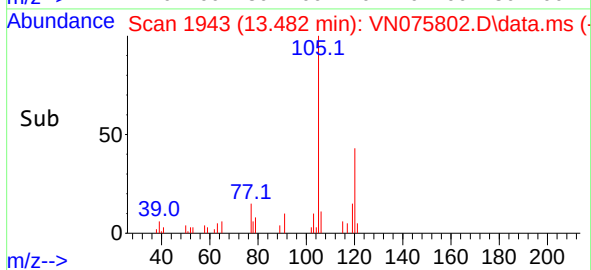
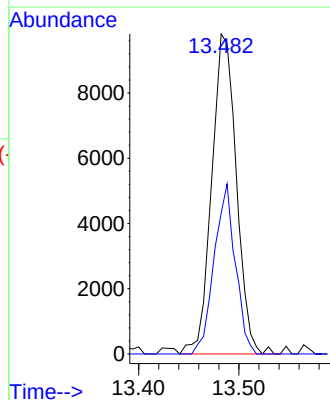
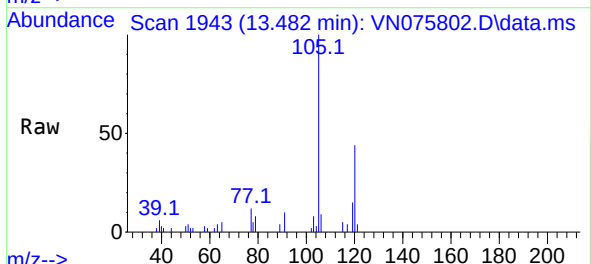
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2

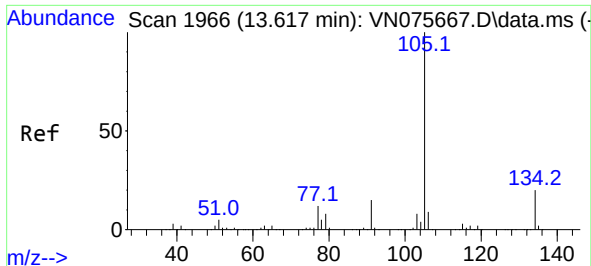
Tgt Ion: 75 Resp: 113243
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#



#84
1,2,4-Trimethylbenzene
Concen: 1.225 ug/l
RT: 13.482 min Scan# 1943
Delta R.T. 0.000 min
Lab File: VN075802.D
Acq: 15 Dec 2022 06:03

Tgt Ion:105 Resp: 16795
Ion Ratio Lower Upper
105 100
120 45.4 23.3 69.8

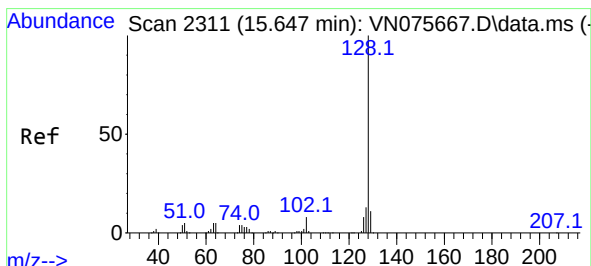
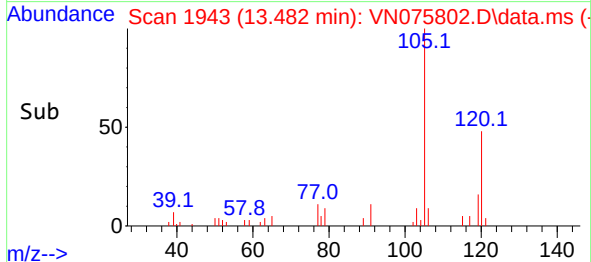
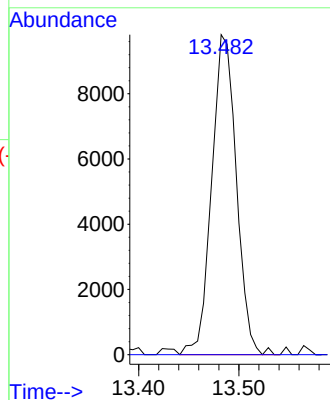
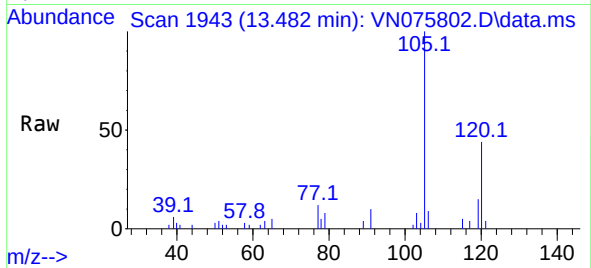




#85
 sec-Butylbenzene
 Concen: 0.998 ug/l
 RT: 13.482 min Scan# 1943
 Delta R.T. -0.135 min
 Lab File: VN075802.D
 Acq: 15 Dec 2022 06:03

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP120722-2

Tgt Ion:105 Resp: 16795
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.1 30.1#



#95
 Naphthalene
 Concen: 5.273 ug/l
 RT: 15.641 min Scan# 2310
 Delta R.T. 0.000 min
 Lab File: VN075802.D
 Acq: 15 Dec 2022 06:03

Tgt Ion:128 Resp: 40250
 Ion Ratio Lower Upper
 128 100
 127 13.9 10.4 15.6
 129 12.0 8.7 13.1

