

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN033122\
 Data File : VN071735.D
 Acq On : 01 Apr 2022 04:27
 Operator : JC\MD
 Sample : N2090-18
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-62

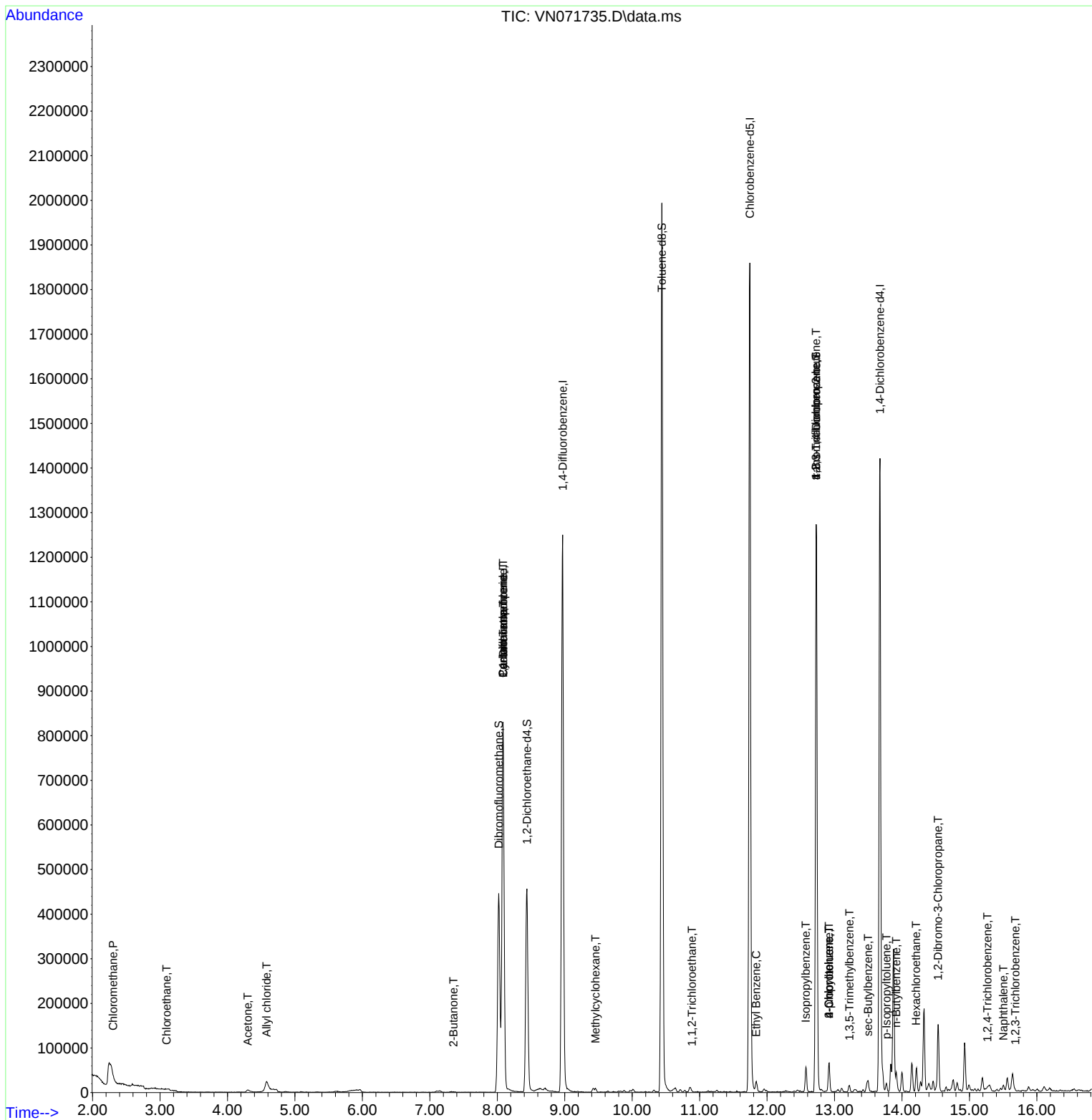
Quant Time: Apr 01 06:06:08 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N033022W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 31 01:57:54 2022
 Response via : Initial Calibration

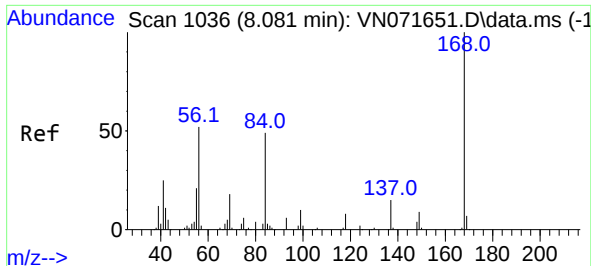
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.087	168	675538	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.969	114	1156506	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.745	117	1155222	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.674	152	416167	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.439	65	387639	50.264	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 100.520%			
35) Dibromofluoromethane	8.022	113	330334	48.540	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 97.080%			
50) Toluene-d8	10.439	98	1443461	51.850	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 103.700%			
62) 4-Bromofluorobenzene	12.727	95	463464	51.475	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 102.960%			
Target Compounds					Qvalue	
3) Chloromethane	2.305	50	2365	0.348	ug/l #	80
6) Chloroethane	3.099	64	8487	1.579	ug/l #	57
14) Allyl chloride	4.581	41	3726	0.412	ug/l #	61
16) Acetone	4.299	43	8323	2.525	ug/l #	82
18) Methyl Acetate	4.869	43	2594	Below Cal	#	61
25) 2-Butanone	7.351	43	1332	0.280	ug/l #	45
31) Cyclohexane	8.087	56	13152	1.254	ug/l #	1
36) 1,1-Dichloropropene	8.087	75	46110	4.852	ug/l #	48
38) Carbon Tetrachloride	8.087	117	60855	6.534	ug/l #	18
39) Methylcyclohexane	9.457	83	3707	0.328	ug/l #	88
55) 1,1,2-Trichloroethane	10.886	97	1670	0.214	ug/l #	16
67) Ethyl Benzene	11.839	91	12163	0.311	ug/l	97
73) Isopropylbenzene	12.574	105	37050	1.056	ug/l	100
76) 1,2,3-Trichloropropane	12.727	75	226628	23.507	ug/l #	1
78) n-propylbenzene	12.916	91	54057	1.465	ug/l	99
79) 2-Chlorotoluene	12.916	91	54057	2.285	ug/l #	40
80) 1,3,5-Trimethylbenzene	13.221	105	10764	0.387	ug/l	74
81) trans-1,4-Dichloro-2-b...	12.727	75	226628	72.848	ug/l #	10
82) 4-Chlorotoluene	12.916	91	54057	2.465	ug/l #	40
85) sec-Butylbenzene	13.498	105	15441	0.469	ug/l	80
86) p-Isopropyltoluene	13.769	119	9790	0.373	ug/l	96
89) n-Butylbenzene	13.916	91	6062	0.311	ug/l #	1
90) Hexachloroethane	14.210	117	3816	0.794	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.533	75	661	0.364	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.268	180	235	2.120	ug/l #	1
95) Naphthalene	15.504	128	14649	4.517	ug/l #	97
96) 1,2,3-Trichlorobenzene	15.680	180	73	2.425	ug/l #	1

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

Quant Time: Apr 01 06:06:08 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N033022W.M
Quant Title : SW846 8260
QLast Update : Thu Mar 31 01:57:54 2022
Response via : Initial Calibration

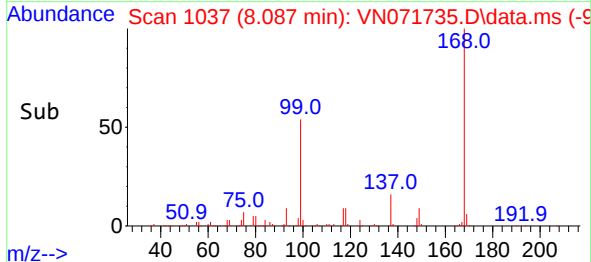
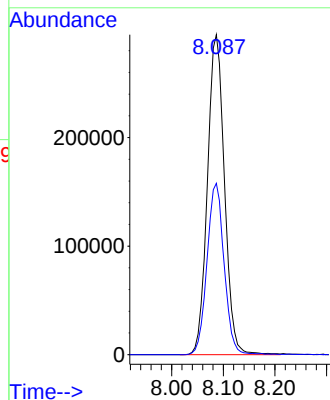
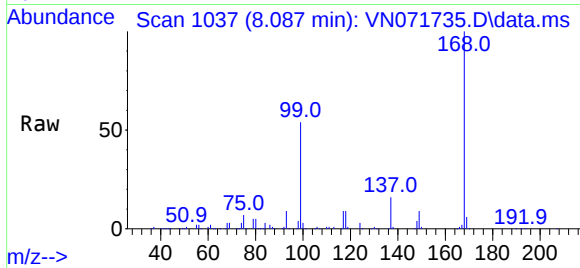




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.087 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

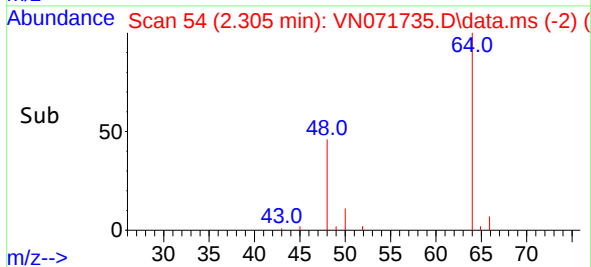
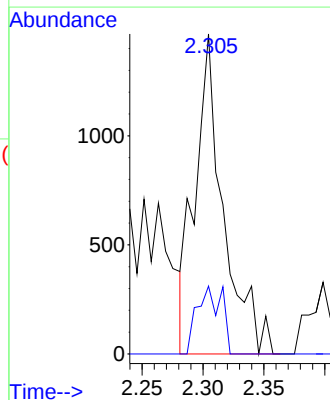
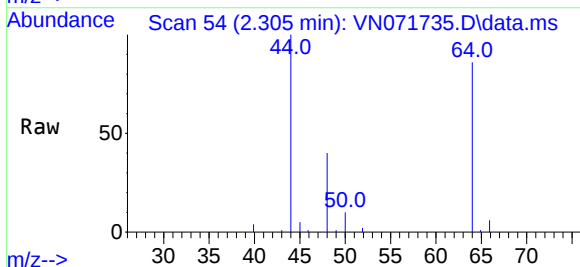
Instrument :
MSVOA_N
ClientSampleId :
MW-62

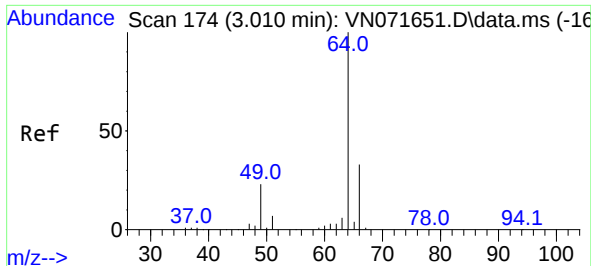
Tgt Ion:168 Resp: 675538
Ion Ratio Lower Upper
168 100
99 53.6 42.3 63.5



#3
Chloromethane
Concen: 0.348 ug/l
RT: 2.305 min Scan# 54
Delta R.T. 0.006 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

Tgt Ion: 50 Resp: 2365
Ion Ratio Lower Upper
50 100
52 21.2 25.7 38.5#

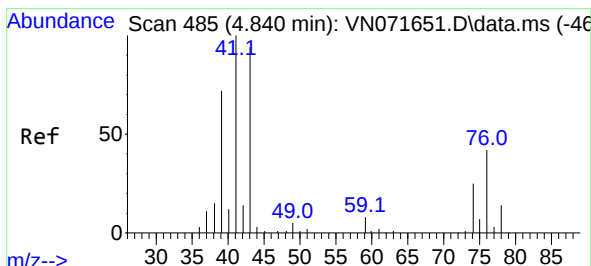
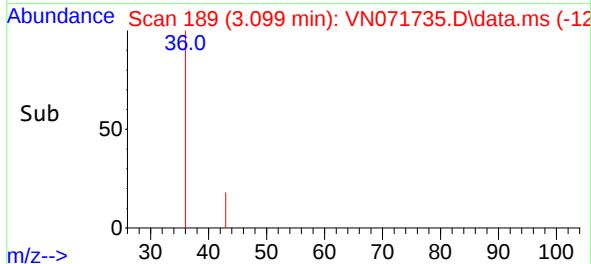
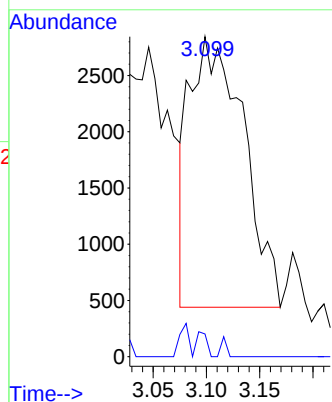
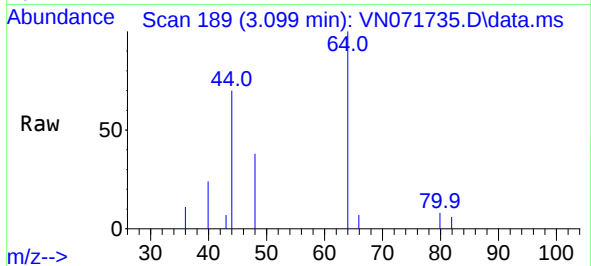




#6
Chloroethane
Concen: 1.579 ug/l
RT: 3.099 min Scan# 11
Delta R.T. 0.089 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

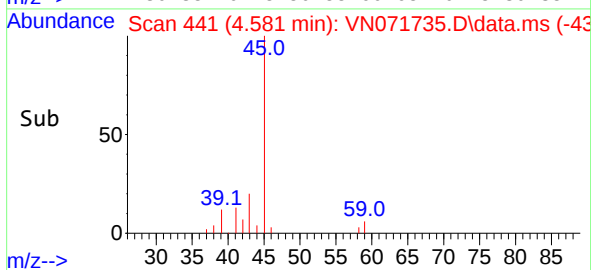
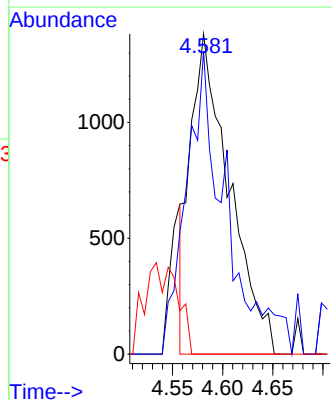
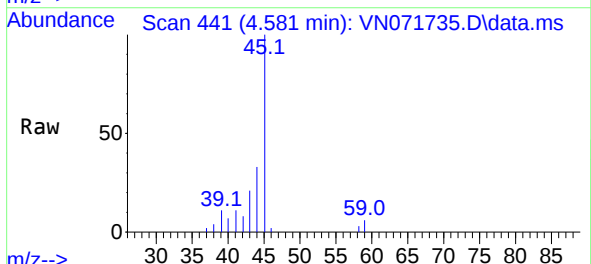
Instrument :
MSVOA_N
ClientSampleId :
MW-62

Tgt Ion: 64 Resp: 8487
Ion Ratio Lower Upper
64 100
66 8.4 26.2 39.4#



#14
Allyl chloride
Concen: 0.412 ug/l
RT: 4.581 min Scan# 441
Delta R.T. -0.259 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

Tgt Ion: 41 Resp: 3726
Ion Ratio Lower Upper
41 100
39 86.9 53.2 79.8#
76 0.0 29.9 44.9#

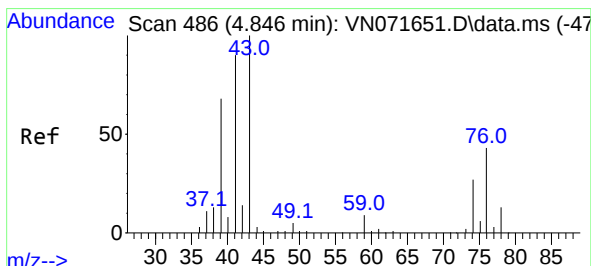
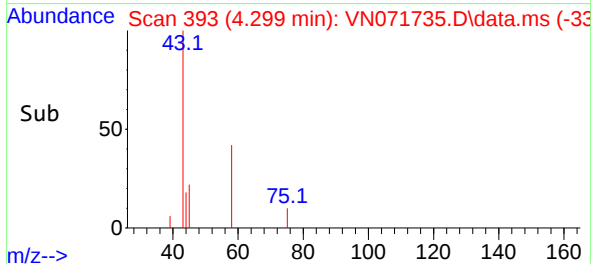
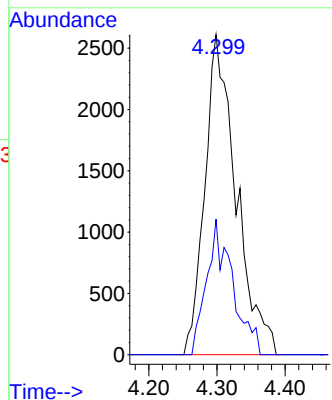
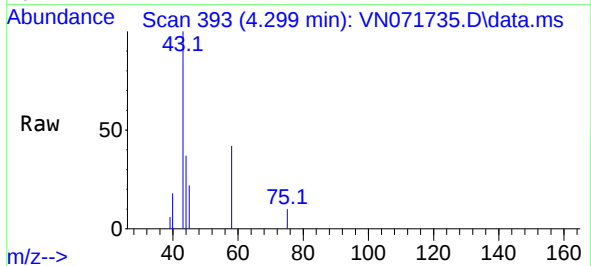




#16
Acetone
Concen: 2.525 ug/l
RT: 4.299 min Scan# 393
Delta R.T. 0.024 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

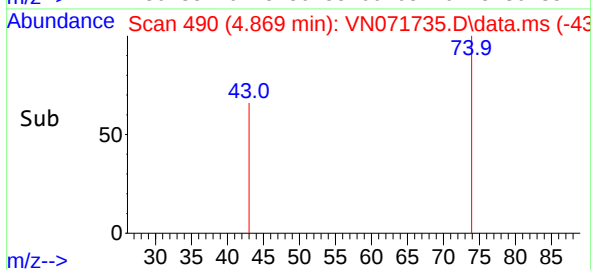
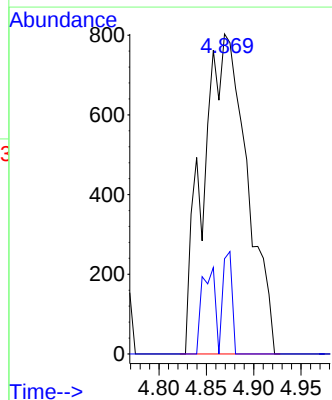
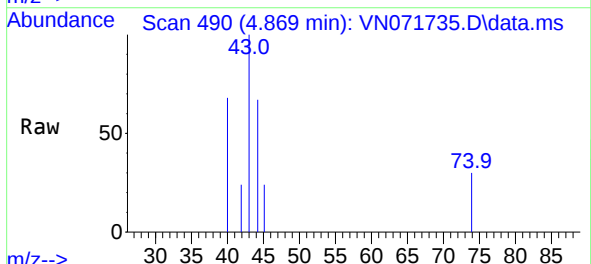
Instrument :
MSVOA_N
ClientSampleId :
MW-62

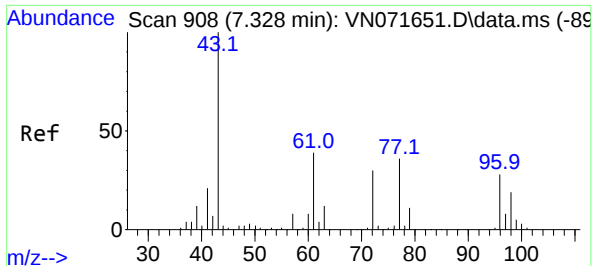
Tgt Ion: 43 Resp: 8323
Ion Ratio Lower Upper
43 100
58 42.3 26.0 39.0#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.869 min Scan# 490
Delta R.T. 0.023 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

Tgt Ion: 43 Resp: 2594
Ion Ratio Lower Upper
43 100
74 6.7 21.6 32.4#





#25

2-Butanone

Concen: 0.280 ug/l

RT: 7.351 min Scan# 91

Delta R.T. 0.023 min

Lab File: VN071735.D

Acq: 01 Apr 2022 04:27

Instrument :

MSVOA_N

ClientSampleId :

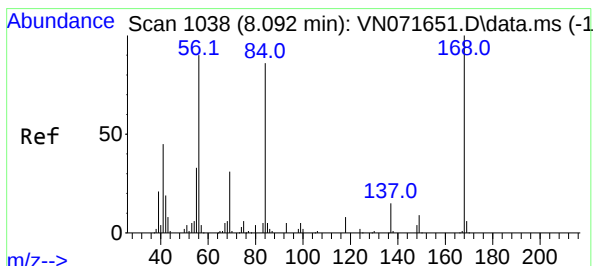
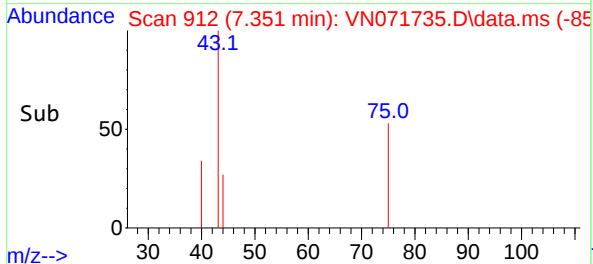
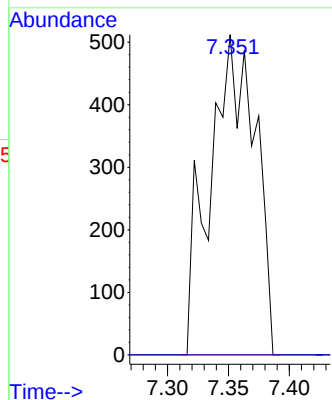
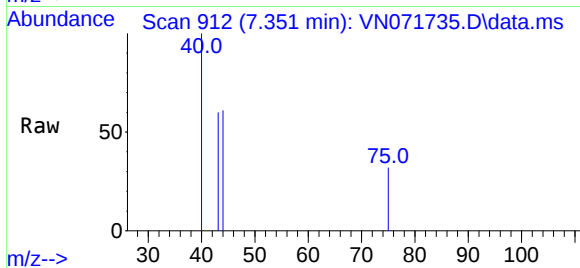
MW-62

Tgt Ion: 43 Resp: 1332

Ion Ratio Lower Upper

43 100

72 0.0 23.7 35.5#



#31

Cyclohexane

Concen: 1.254 ug/l

RT: 8.087 min Scan# 1037

Delta R.T. -0.005 min

Lab File: VN071735.D

Acq: 01 Apr 2022 04:27

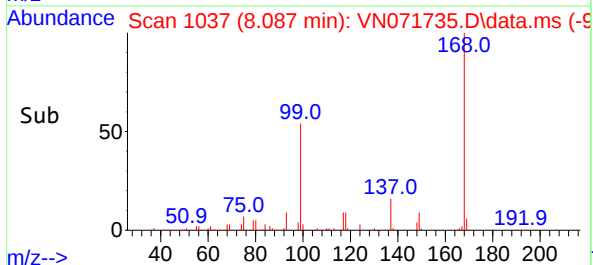
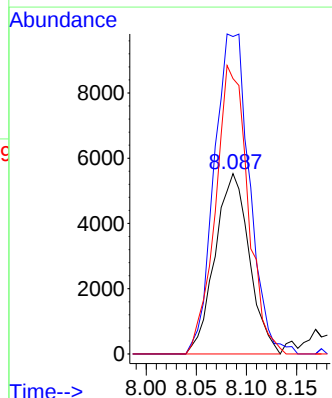
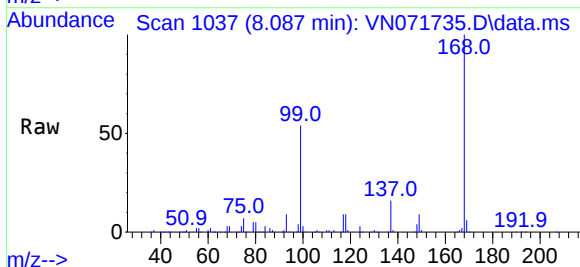
Tgt Ion: 56 Resp: 13152

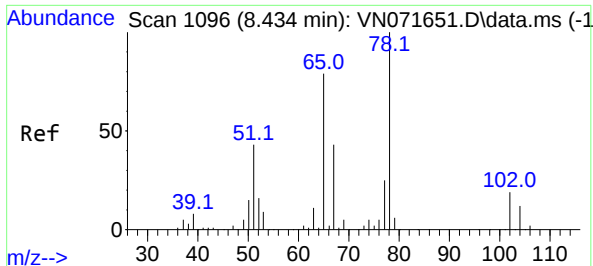
Ion Ratio Lower Upper

56 100

69 176.0 27.8 41.8#

84 152.7 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 50.264 ug/l

RT: 8.439 min Scan# 1107

Delta R.T. 0.005 min

Lab File: VN071735.D

Acq: 01 Apr 2022 04:27

Instrument :

MSVOA_N

ClientSampleId :

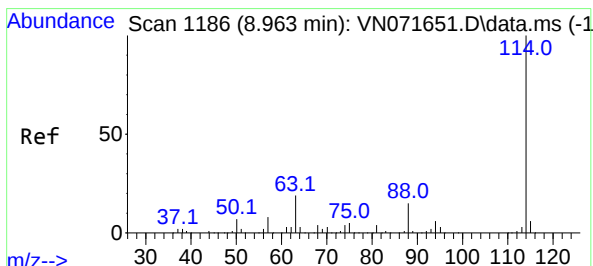
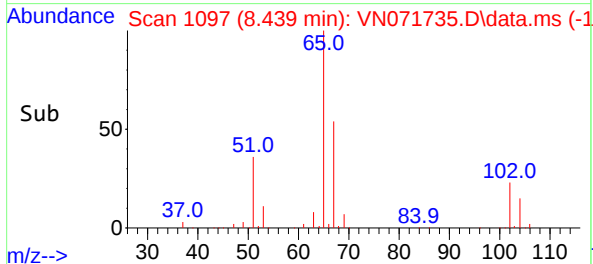
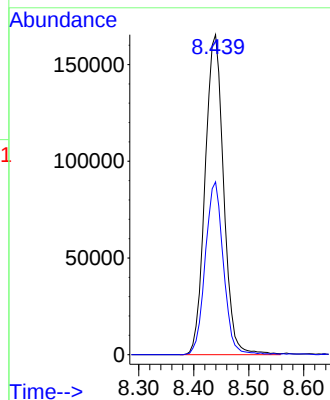
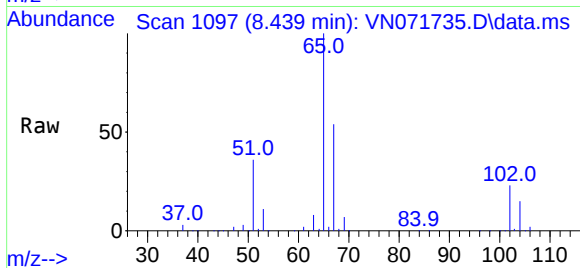
MW-62

Tgt Ion: 65 Resp: 387639

Ion Ratio Lower Upper

65 100

67 52.8 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.969 min Scan# 1187

Delta R.T. 0.006 min

Lab File: VN071735.D

Acq: 01 Apr 2022 04:27

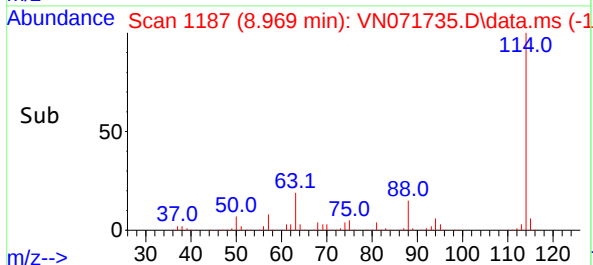
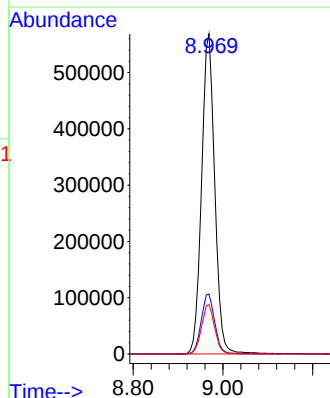
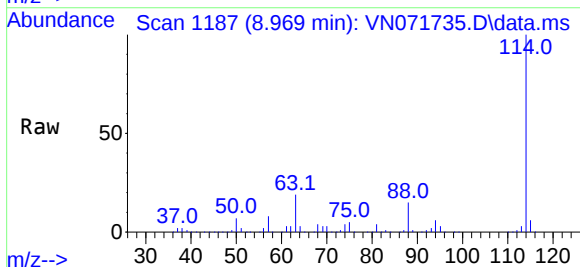
Tgt Ion: 114 Resp: 1156506

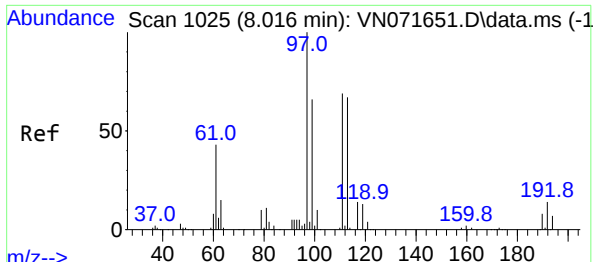
Ion Ratio Lower Upper

114 100

63 18.7 0.0 40.0

88 15.4 0.0 32.6

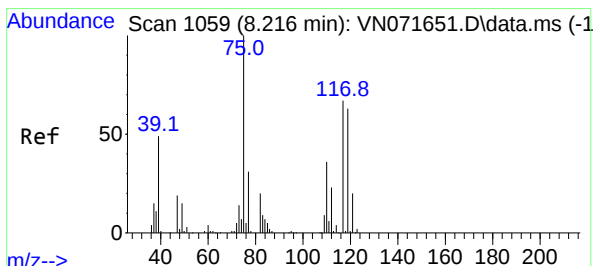
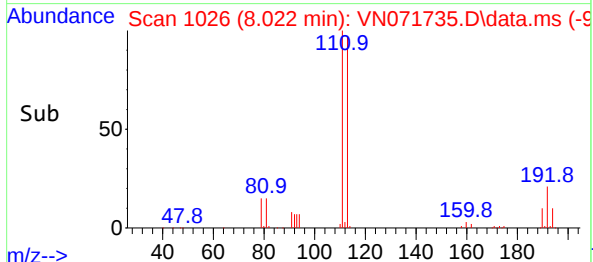
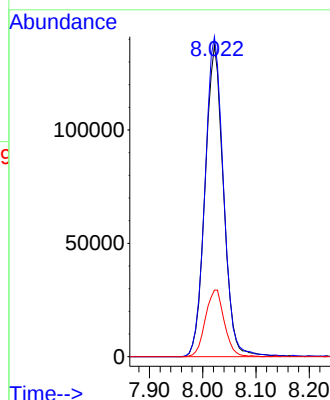
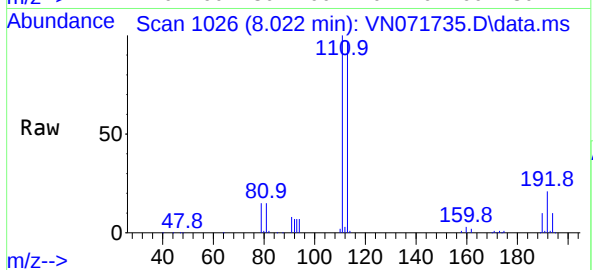




#35
Dibromofluoromethane
Concen: 48.540 ug/l
RT: 8.022 min Scan# 1026
Delta R.T. 0.006 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

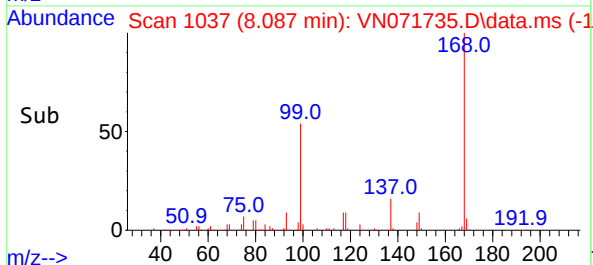
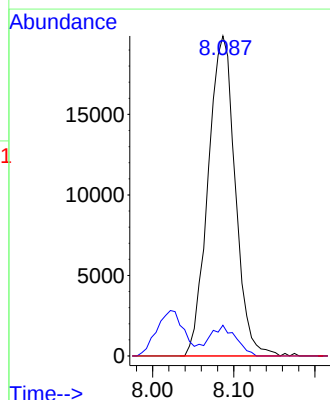
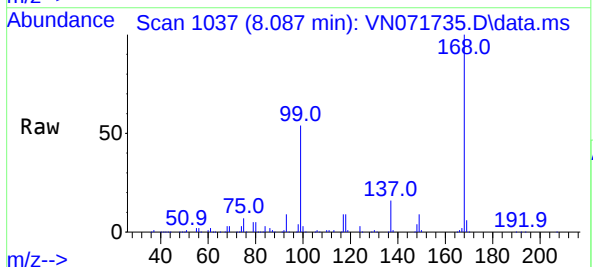
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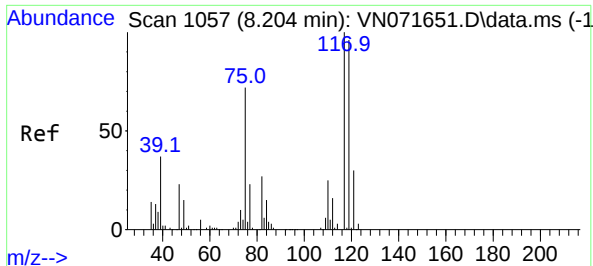
Tgt Ion:113 Resp: 330334
Ion Ratio Lower Upper
113 100
111 103.2 81.4 122.0
192 22.0 17.0 25.6



#36
1,1-Dichloropropene
Concen: 4.852 ug/l
RT: 8.087 min Scan# 1037
Delta R.T. -0.129 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

Tgt Ion: 75 Resp: 46110
Ion Ratio Lower Upper
75 100
110 8.6 18.3 54.8#
77 0.0 25.1 37.7#

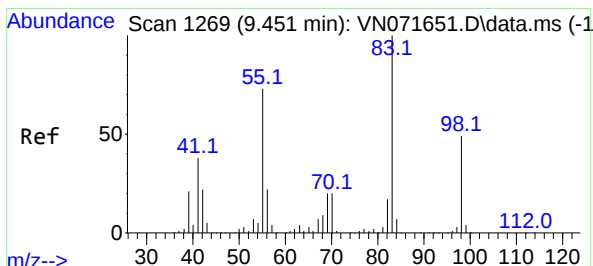
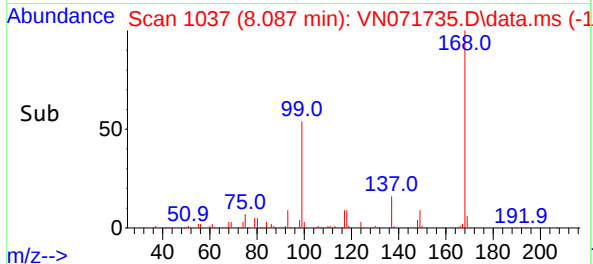
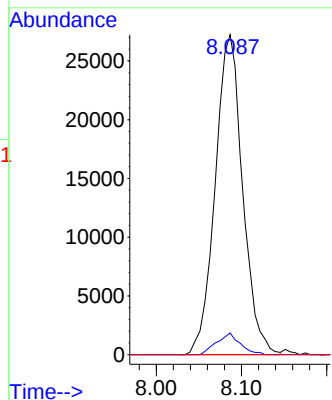
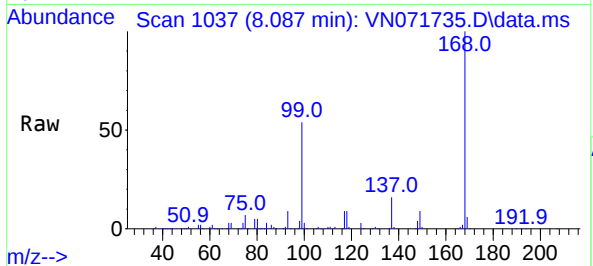




#38
Carbon Tetrachloride
Concen: 6.534 ug/l
RT: 8.087 min Scan# 117
Delta R.T. -0.117 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

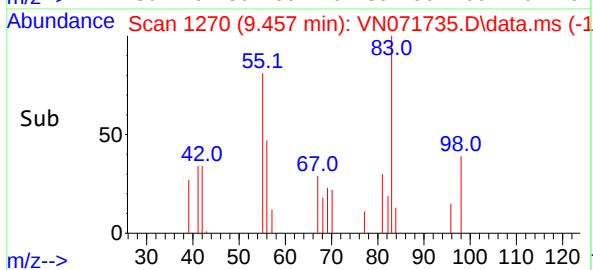
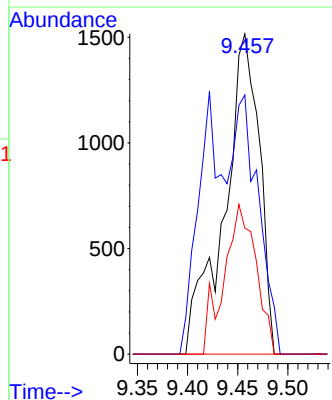
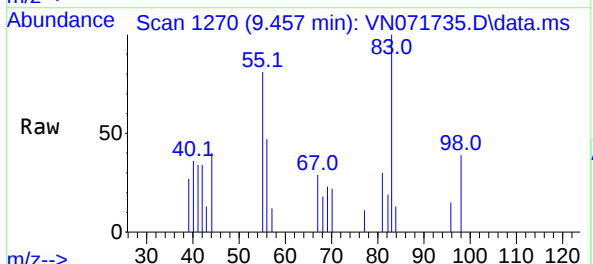
Instrument :
MSVOA_N
ClientSampleId :
MW-62

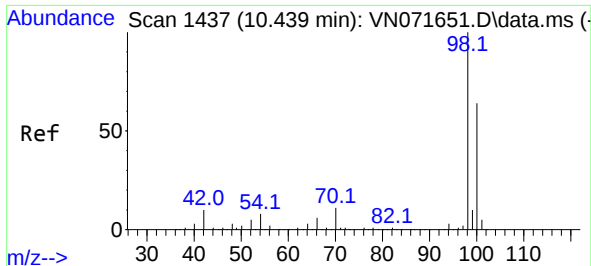
Tgt Ion:117 Resp: 60855
Ion Ratio Lower Upper
117 100
119 6.8 75.8 113.8#
121 0.0 24.6 37.0#



#39
Methylcyclohexane
Concen: 0.328 ug/l
RT: 9.457 min Scan# 1270
Delta R.T. 0.006 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

Tgt Ion: 83 Resp: 3707
Ion Ratio Lower Upper
83 100
55 80.9 57.8 86.8
98 39.3 39.4 59.2#

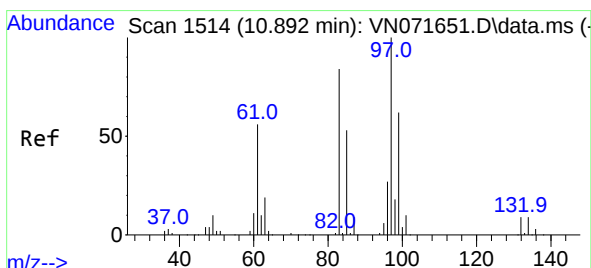
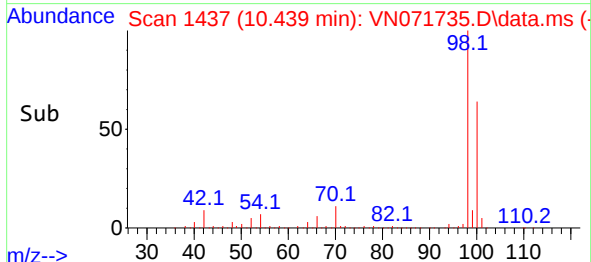
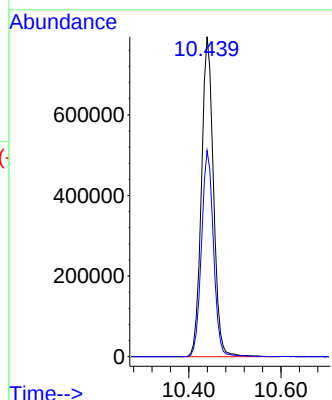
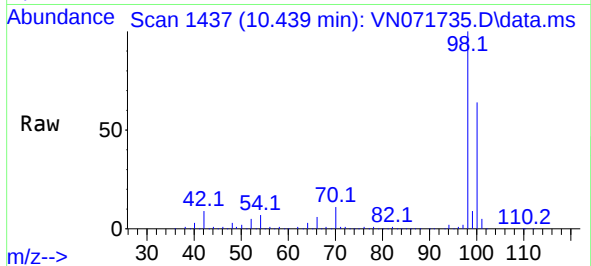




#50
Toluene-d8
Concen: 51.850 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

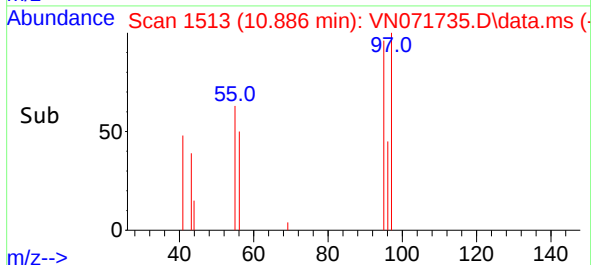
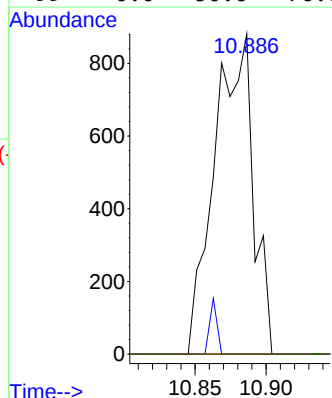
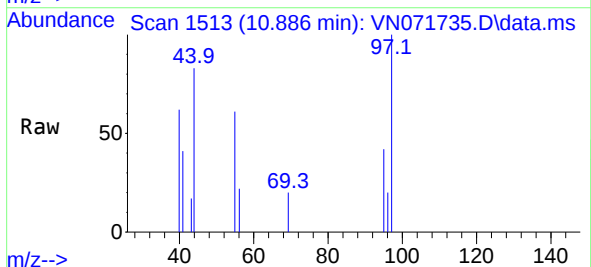
Instrument :
MSVOA_N
ClientSampleId :
MW-62

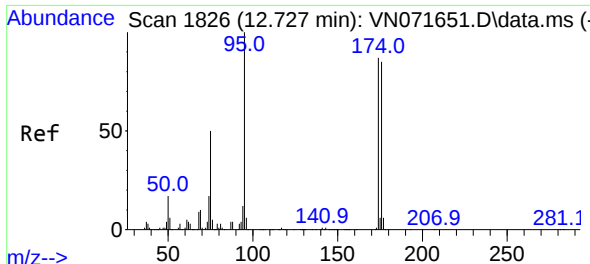
Tgt Ion: 98 Resp: 1443461
Ion Ratio Lower Upper
98 100
100 64.5 52.6 78.8



#55
1,1,2-Trichloroethane
Concen: 0.214 ug/l
RT: 10.886 min Scan# 1513
Delta R.T. -0.006 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

Tgt Ion: 97 Resp: 1670
Ion Ratio Lower Upper
97 100
83 0.0 66.2 99.4#
85 0.0 43.9 65.9#
99 0.0 50.6 76.0#

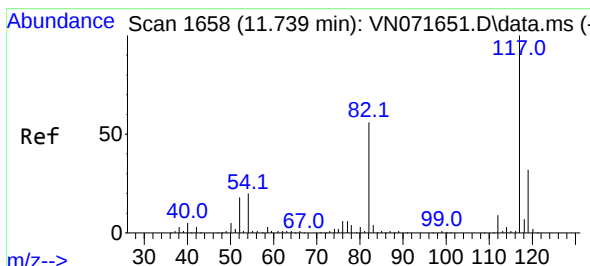
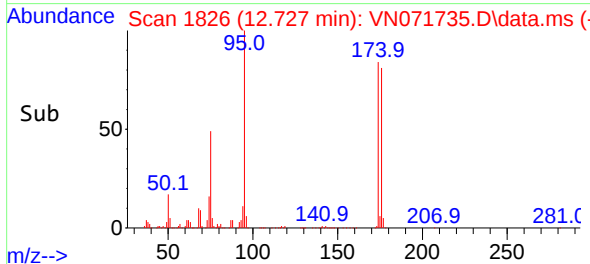
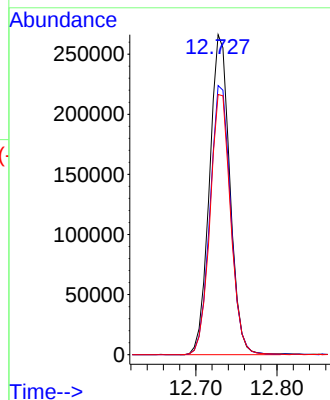
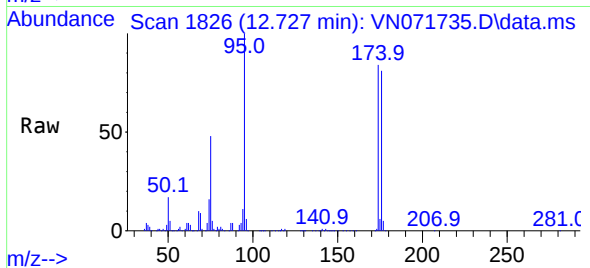




#62
4-Bromofluorobenzene
Concen: 51.475 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

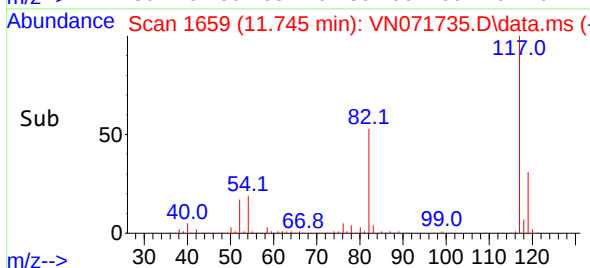
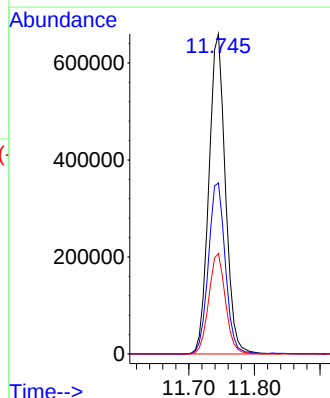
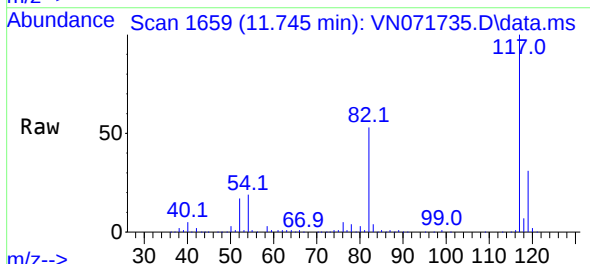
Instrument :
MSVOA_N
ClientSampleId :
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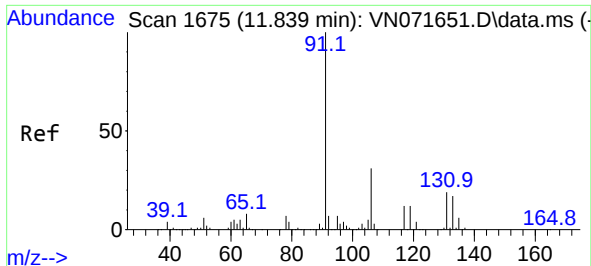
Tgt Ion: 95 Resp: 463464
Ion Ratio Lower Upper
95 100
174 85.1 0.0 167.6
176 82.2 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.745 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

Tgt Ion: 117 Resp: 1155222
Ion Ratio Lower Upper
117 100
82 53.5 44.2 66.2
119 31.4 25.4 38.0

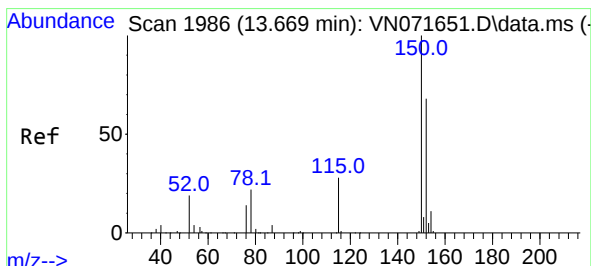
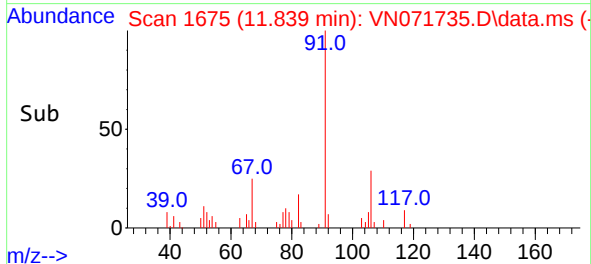
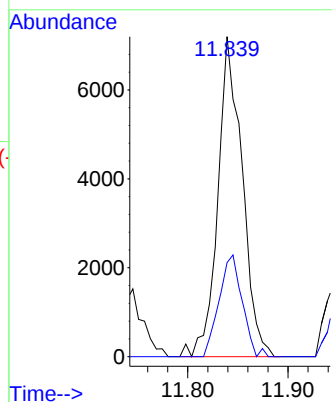
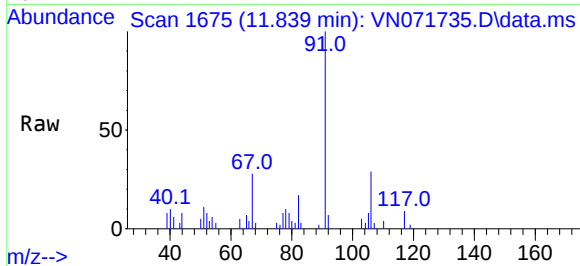




#67
Ethyl Benzene
Concen: 0.311 ug/l
RT: 11.839 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

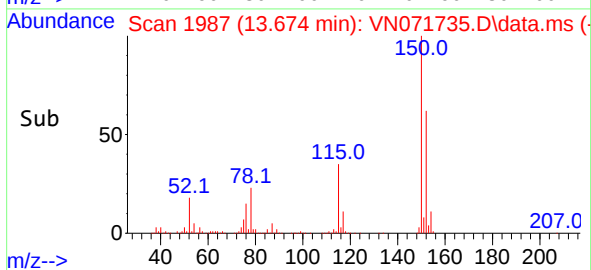
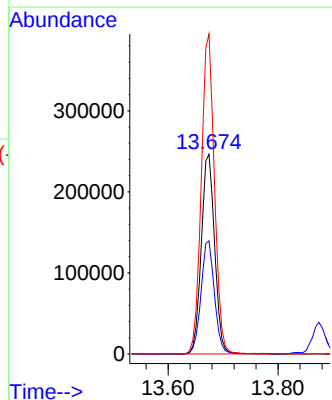
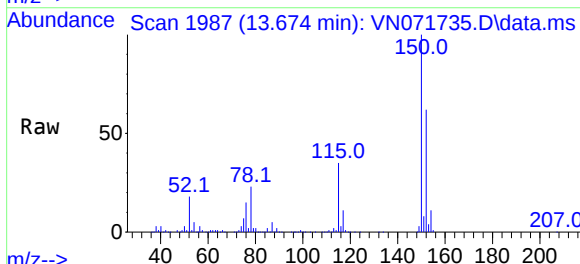
Instrument :
MSVOA_N
ClientSampleId :
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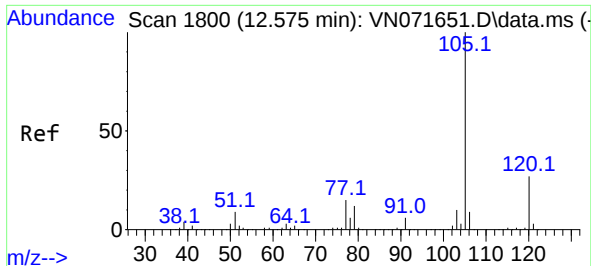
Tgt Ion: 91 Resp: 12163
Ion Ratio Lower Upper
91 100
106 29.4 24.9 37.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.674 min Scan# 1987
Delta R.T. 0.005 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

Tgt Ion:152 Resp: 416167
Ion Ratio Lower Upper
152 100
115 57.1 28.9 86.7
150 157.9 0.0 356.2

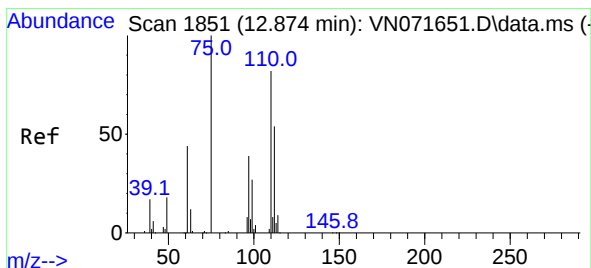
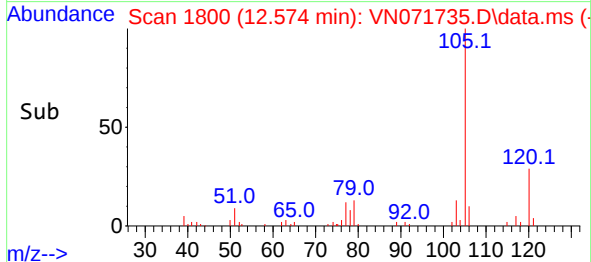
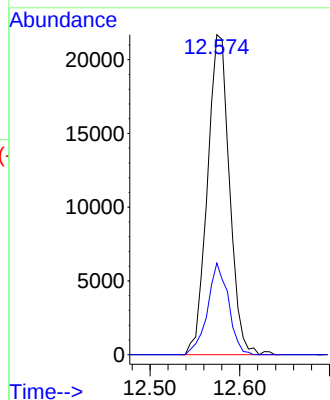
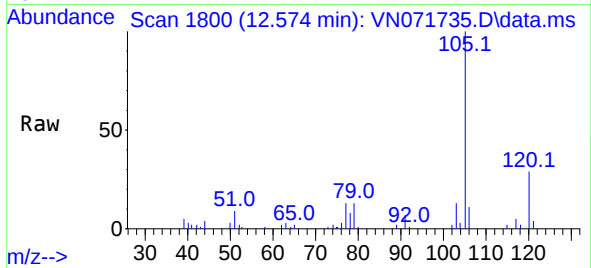




#73
Isopropylbenzene
Concen: 1.056 ug/l
RT: 12.574 min Scan# 1800
Delta R.T. -0.001 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

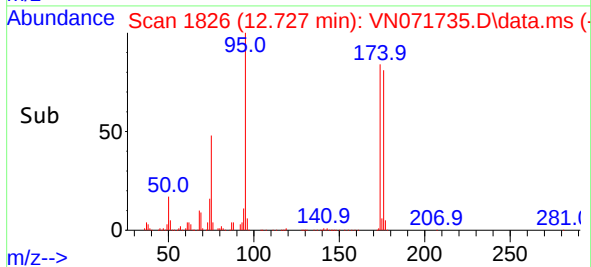
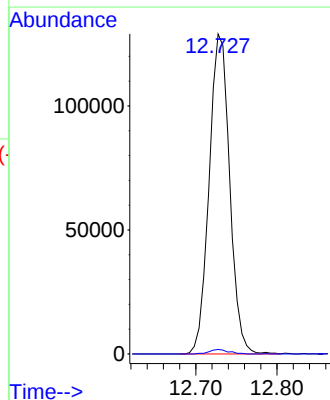
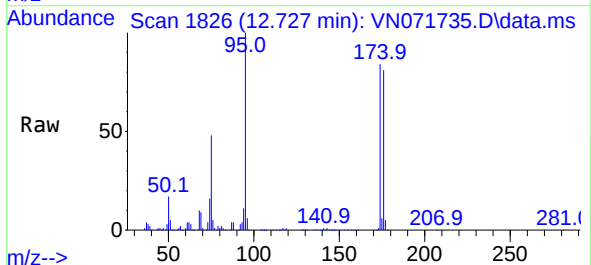
Instrument :
MSVOA_N
ClientSampleId :
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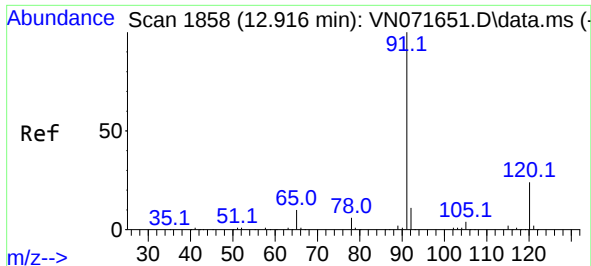
Tgt Ion:105 Resp: 37050
Ion Ratio Lower Upper
105 100
120 27.1 13.5 40.4



#76
1,2,3-Trichloropropane
Concen: 23.507 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

Tgt Ion: 75 Resp: 226628
Ion Ratio Lower Upper
75 100
77 1.3 98.5 295.5#

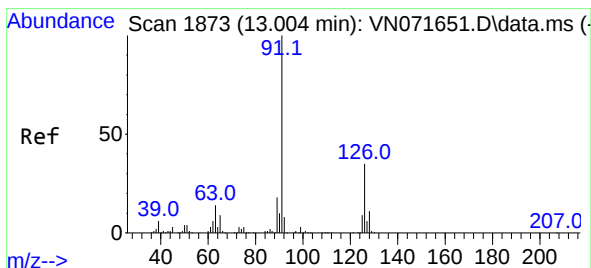
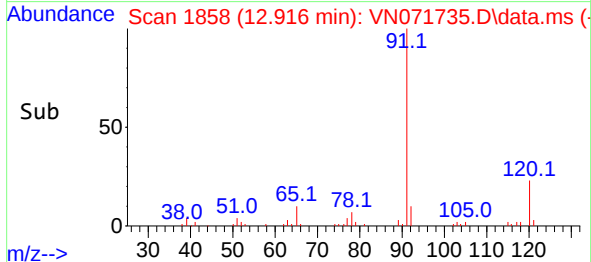
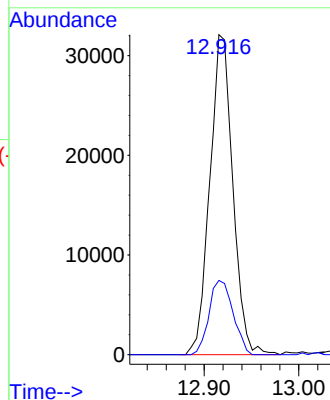
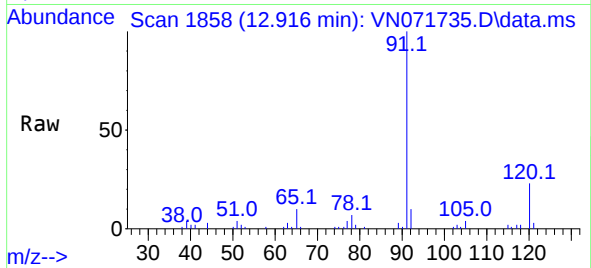




#78
n-propylbenzene
Concen: 1.465 ug/l
RT: 12.916 min Scan# 1858
Delta R.T. -0.000 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

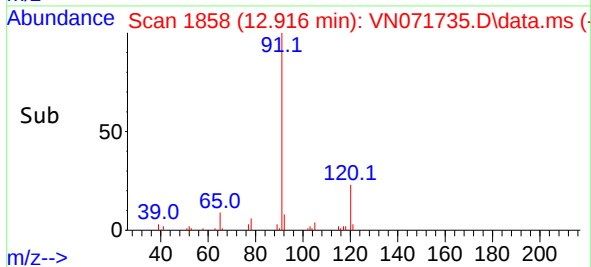
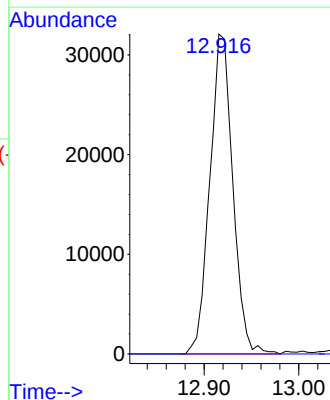
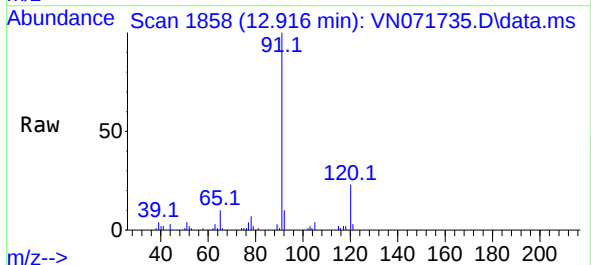
Instrument :
MSVOA_N
ClientSampleId :
MW-62

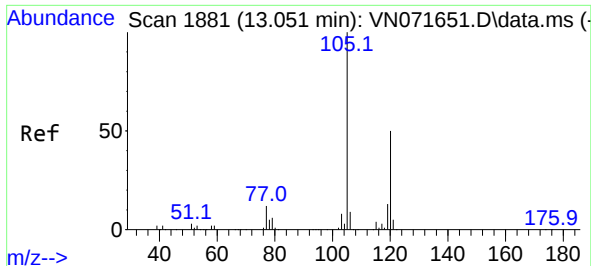
Tgt Ion: 91 Resp: 54057
Ion Ratio Lower Upper
91 100
120 24.3 11.9 35.5



#79
2-Chlorotoluene
Concen: 2.285 ug/l
RT: 12.916 min Scan# 1858
Delta R.T. -0.088 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

Tgt Ion: 91 Resp: 54057
Ion Ratio Lower Upper
91 100
126 0.0 17.3 51.9#

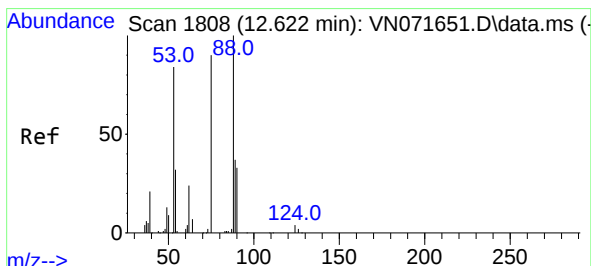
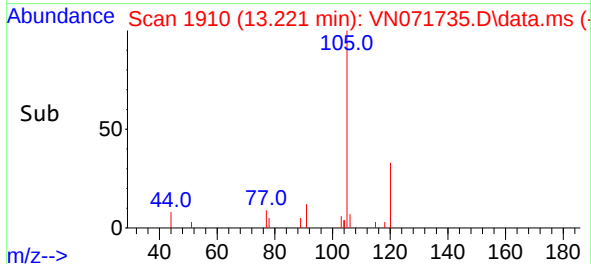
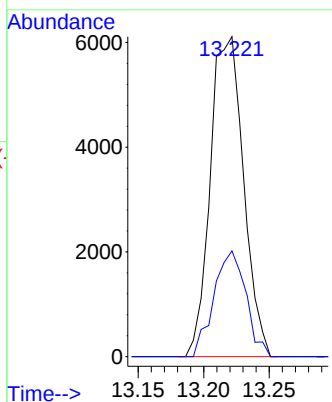
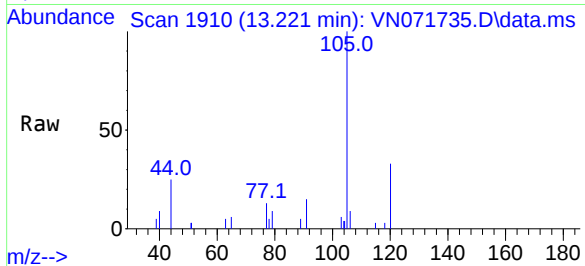




#80
1,3,5-Trimethylbenzene
Concen: 0.387 ug/l
RT: 13.221 min Scan# 1881
Delta R.T. 0.170 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

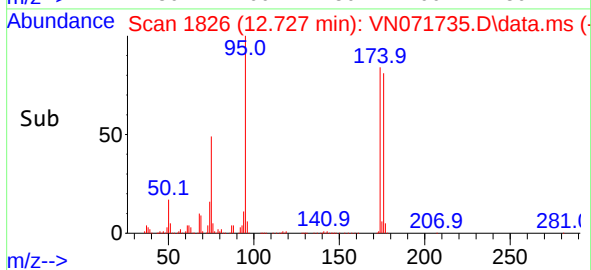
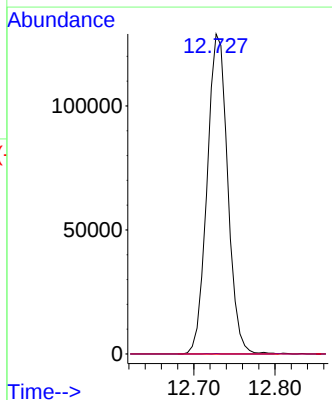
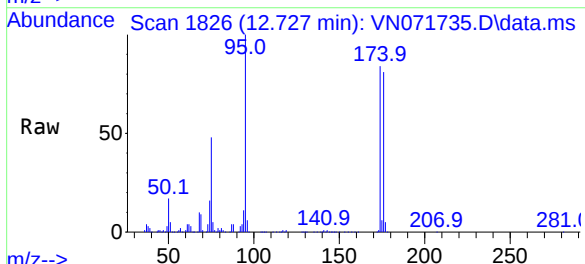
Instrument :
MSVOA_N
ClientSampleId :
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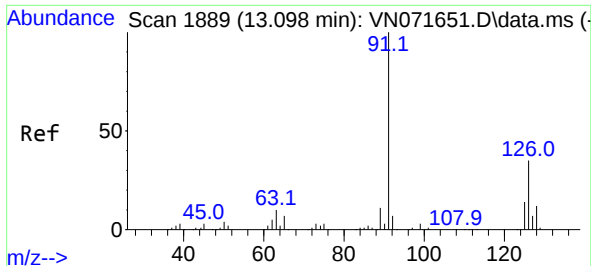
Tgt Ion:105 Resp: 10764
Ion Ratio Lower Upper
105 100
120 31.9 24.9 74.7



#81
trans-1,4-Dichloro-2-butene
Concen: 72.848 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.105 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

Tgt Ion: 75 Resp: 226628
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#

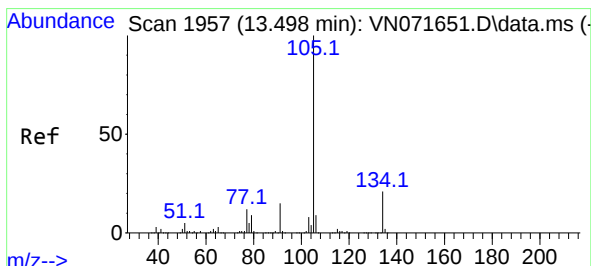
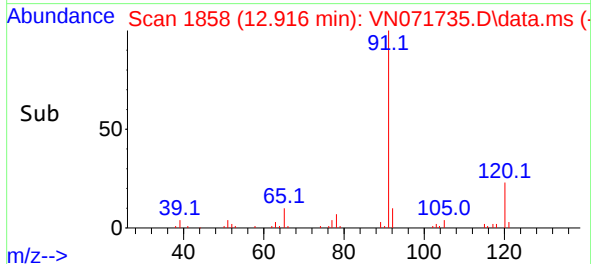
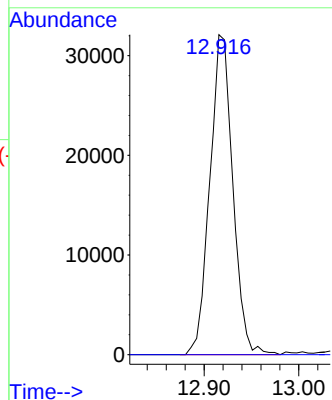
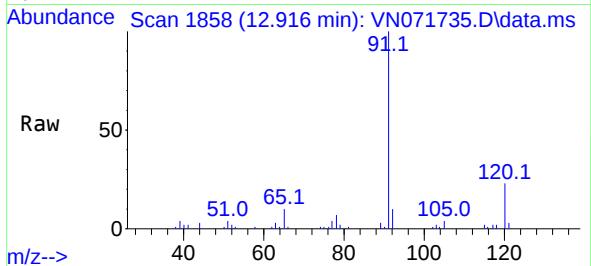




#82
4-Chlorotoluene
Concen: 2.465 ug/l
RT: 12.916 min Scan# 1889
Delta R.T. -0.182 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

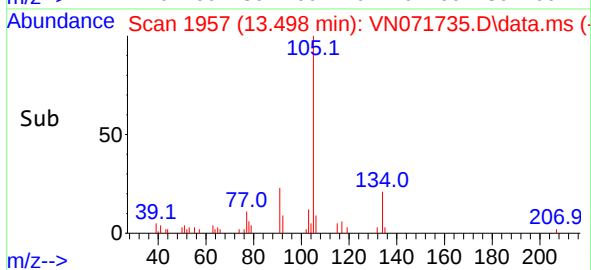
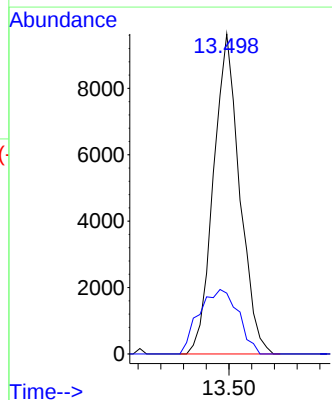
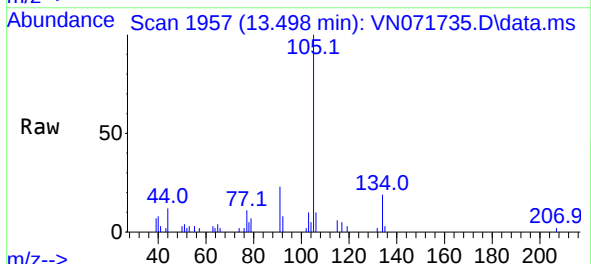
Instrument :
MSVOA_N
ClientSampleId :
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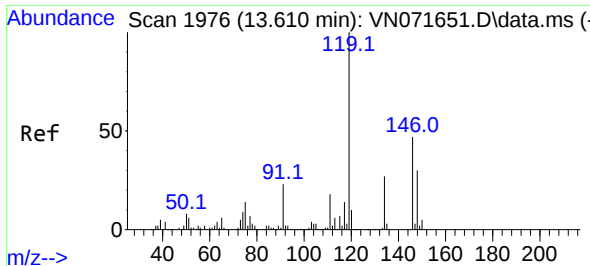
Tgt Ion: 91 Resp: 54057
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#



#85
sec-Butylbenzene
Concen: 0.469 ug/l
RT: 13.498 min Scan# 1957
Delta R.T. -0.000 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

Tgt Ion: 105 Resp: 15441
Ion Ratio Lower Upper
105 100
134 30.2 10.4 31.1

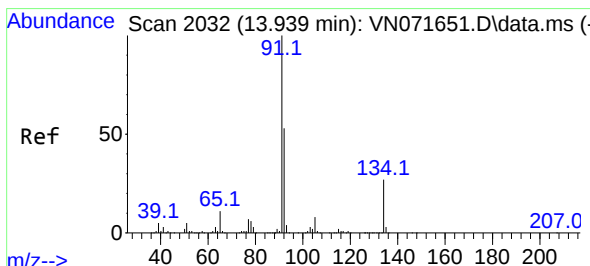
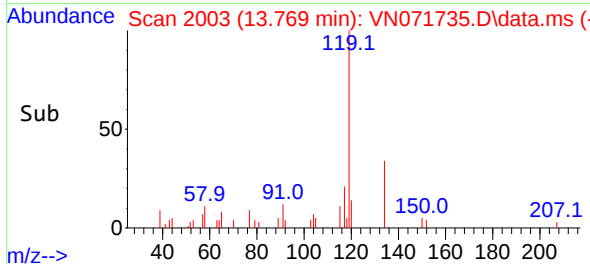
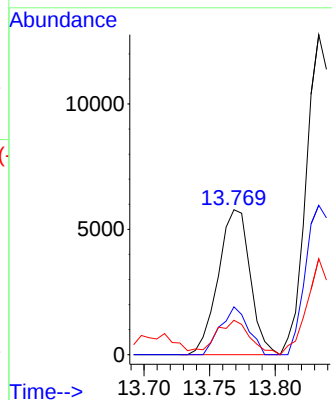
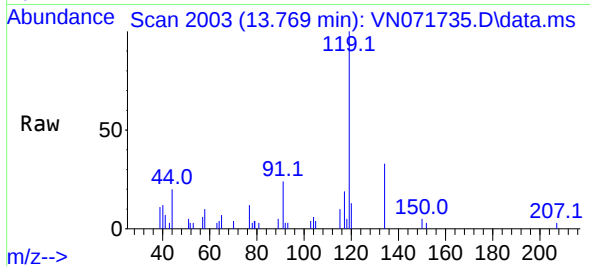




#86
p-Isopropyltoluene
Concen: 0.373 ug/l
RT: 13.769 min Scan# 2028
Delta R.T. 0.159 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

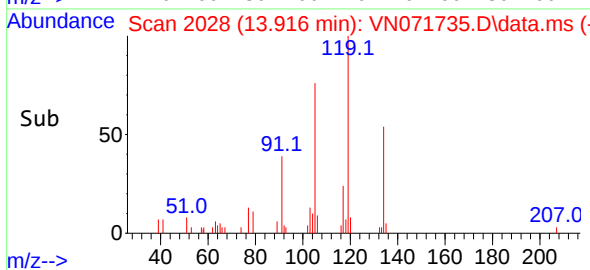
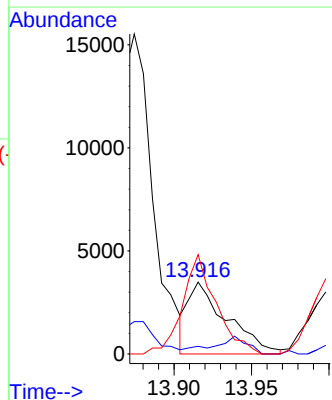
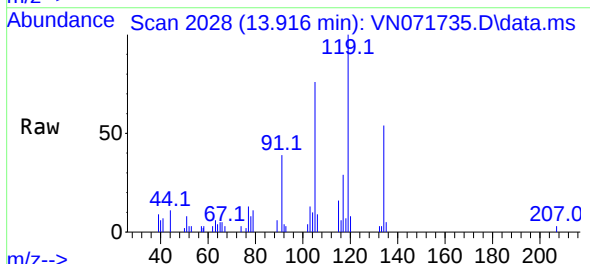
Instrument :
MSVOA_N
ClientSampleId :
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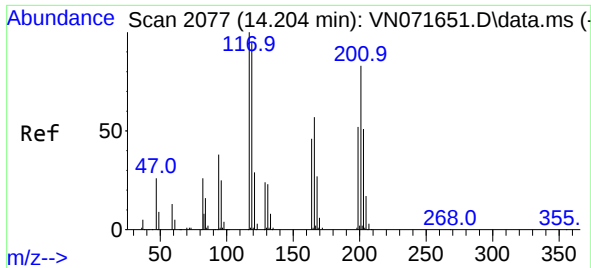
Tgt Ion:119 Resp: 9790
Ion Ratio Lower Upper
119 100
134 28.6 13.3 39.8
91 24.1 11.3 33.9



#89
n-Butylbenzene
Concen: 0.311 ug/l
RT: 13.916 min Scan# 2028
Delta R.T. -0.023 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

Tgt Ion: 91 Resp: 6062
Ion Ratio Lower Upper
91 100
92 0.0 26.9 80.7#
134 119.7 13.6 40.8#

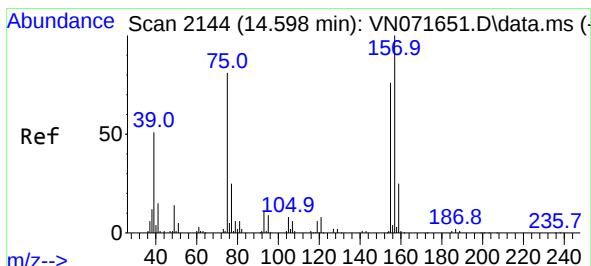
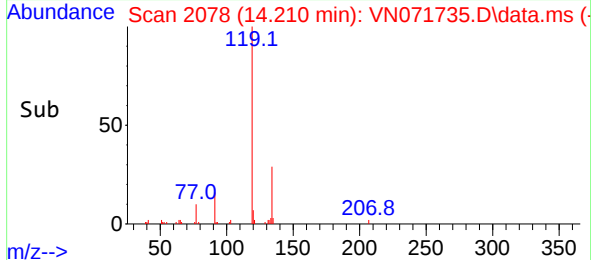
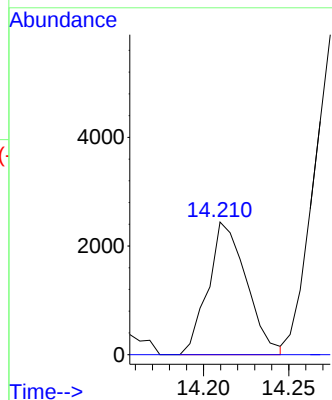
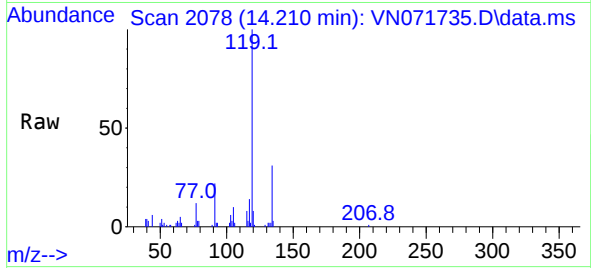




#90
Hexachloroethane
Concen: 0.794 ug/l
RT: 14.210 min Scan# 2077
Delta R.T. 0.006 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

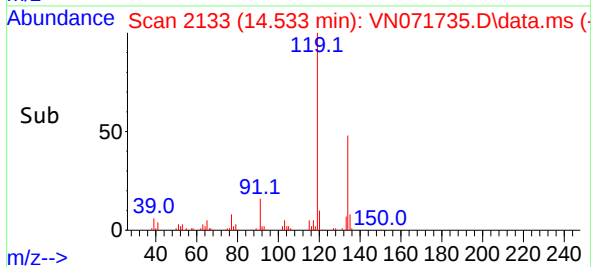
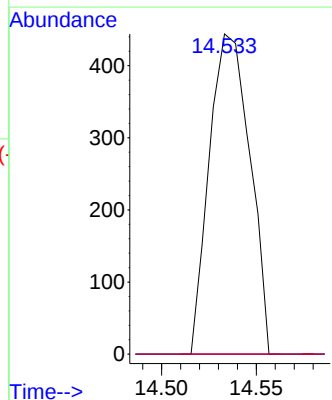
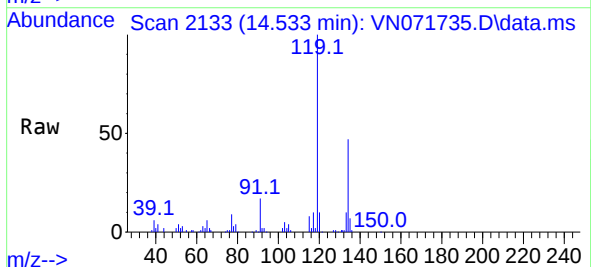
Instrument :
MSVOA_N
ClientSampleId :
MW-62

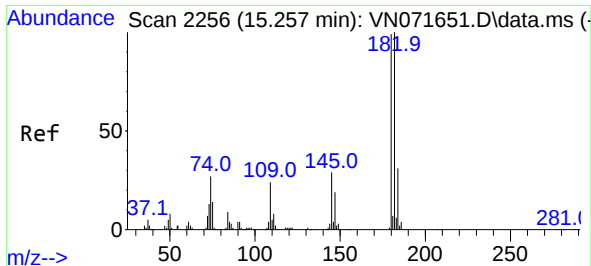
Tgt Ion:117 Resp: 3816
Ion Ratio Lower Upper
117 100
201 0.0 40.6 122.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.364 ug/l
RT: 14.533 min Scan# 2133
Delta R.T. -0.065 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

Tgt Ion: 75 Resp: 661
Ion Ratio Lower Upper
75 100
155 0.0 44.9 134.5#
157 0.0 59.0 176.8#

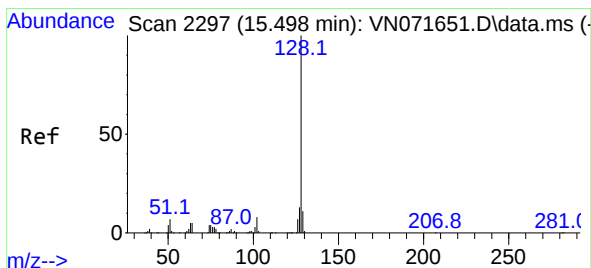
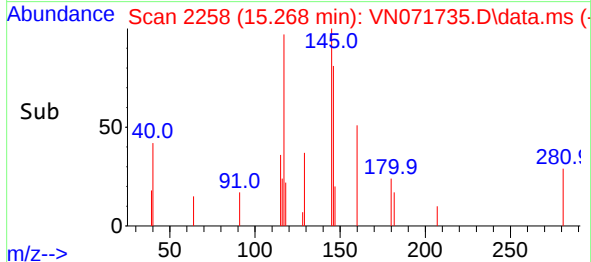
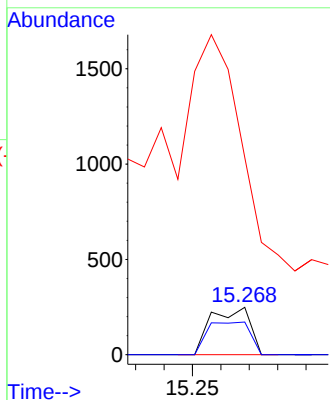
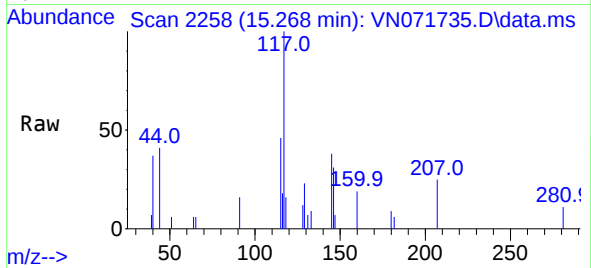




#93
1,2,4-Trichlorobenzene
Concen: 2.120 ug/l
RT: 15.268 min Scan# 21
Delta R.T. 0.011 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

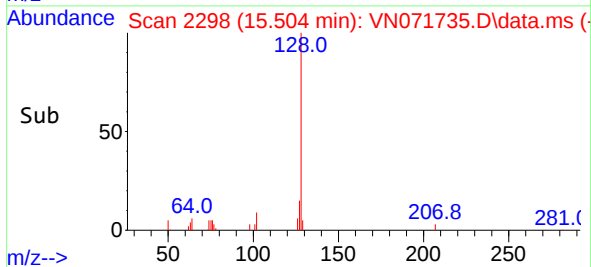
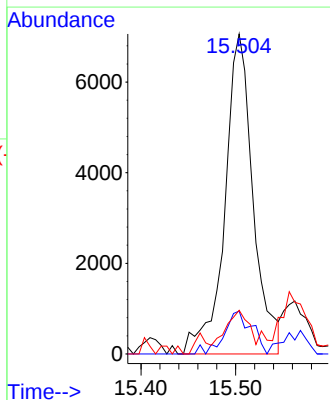
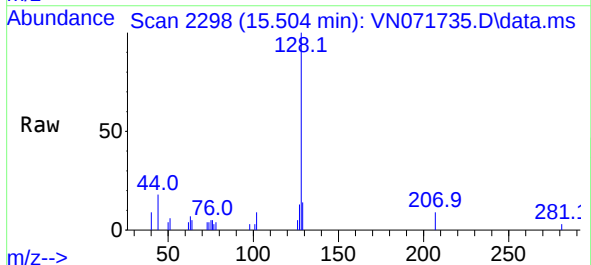
Instrument :
MSVOA_N
ClientSampleId :
MW-62

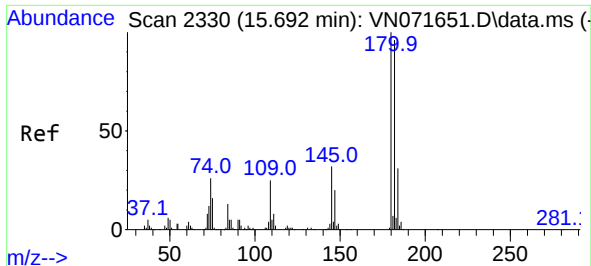
Tgt Ion:180 Resp: 235
Ion Ratio Lower Upper
180 100
182 75.7 47.5 142.5
145 2129.4 14.5 43.5#



#95
Naphthalene
Concen: 4.517 ug/l
RT: 15.504 min Scan# 2298
Delta R.T. 0.006 min
Lab File: VN071735.D
Acq: 01 Apr 2022 04:27

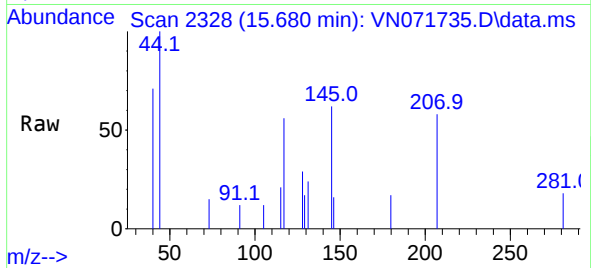
Tgt Ion:128 Resp: 14649
Ion Ratio Lower Upper
128 100
127 13.0 10.3 15.5
129 13.6 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.425 ug/l
 RT: 15.680 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: VN071735.D
 Acq: 01 Apr 2022 04:27

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-62



Tgt Ion:180 Resp: 73
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.8 143.3#
 145 4702.7 15.5 46.5#

