

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111622\
 Data File : VN075291.D
 Acq On : 16 Nov 2022 16:27
 Operator : JC\MD
 Sample : PB149082ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 17 04:29:17 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102622W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 27 09:48:49 2022
 Response via : Initial Calibration

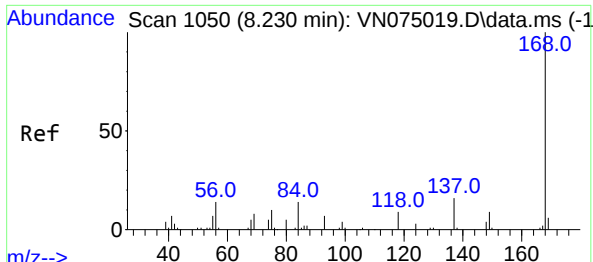
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	182120	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	321278	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	301285	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	129063	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	117915	48.053	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.100%		
35) Dibromofluoromethane	8.171	113	99369	52.686	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	105.380%		
50) Toluene-d8	10.565	98	385189	52.640	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	105.280%		
62) 4-Bromofluorobenzene	12.847	95	128495	49.989	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	99.980%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.936	94	234	Below Cal	#	80
11) Tert butyl alcohol	5.553	59	250	0.437	ug/l #	72
16) Acetone	4.448	43	14768	14.213	ug/l	95
18) Methyl Acetate	5.048	43	2346	0.691	ug/l	94
20) Methylene Chloride	5.295	84	10804	4.664	ug/l	84
25) 2-Butanone	7.494	43	1798	1.100	ug/l #	88
31) Cyclohexane	8.230	56	3819	1.046	ug/l #	34
36) 1,1-Dichloropropene	8.230	75	14434	4.943	ug/l #	50
37) Ethyl Acetate	7.565	43	21272	6.643	ug/l	100
38) Carbon Tetrachloride	8.224	117	19349	6.024	ug/l #	17
42) 1,2-Dichloroethane	8.677	62	661	0.203	ug/l #	75
43) Isopropyl Acetate	8.694	43	94509	19.027	ug/l #	92
45) 1,2-Dichloropropane	9.747	63	1188	0.558	ug/l #	42
48) Methyl methacrylate	9.665	41	2887	1.267	ug/l #	35
49) 1,4-Dioxane	9.741	88	120	2.011	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	4623	1.442	ug/l #	86
54) cis-1,3-Dichloropropene	10.359	75	39422	10.970	ug/l #	63
56) Ethyl methacrylate	10.982	69	743	0.206	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	5835	1.479	ug/l #	42
59) 2-Hexanone	11.171	43	83966	34.515	ug/l #	21
71) Bromoform	12.853	173	924	0.517	ug/l #	1
74) N-amyl acetate	12.482	43	1082	0.282	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	12.935	83	73	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.847	75	65260	23.814	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	65260	61.131	ug/l #	10
93) 1,2,4-Trichlorobenzene	15.388	180	957	0.501	ug/l #	84
95) Naphthalene	15.641	128	5197	0.707	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	1195	0.629	ug/l	84

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

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.000 min

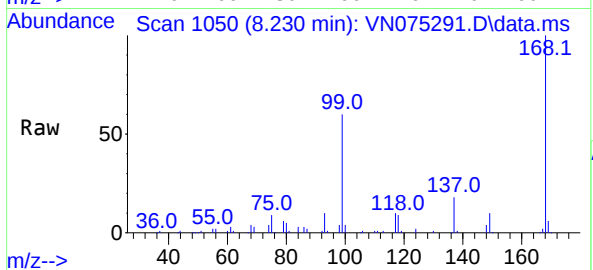
Lab File: VN075291.D

Acq: 16 Nov 2022 16:27

Instrument :

MSVOA_N

ClientSampleId :

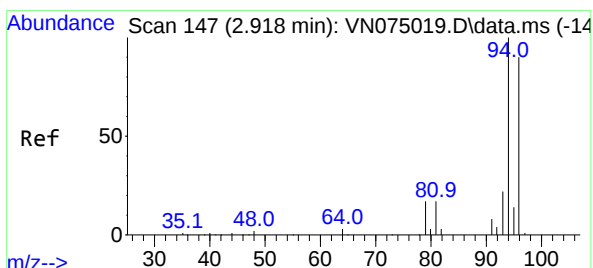
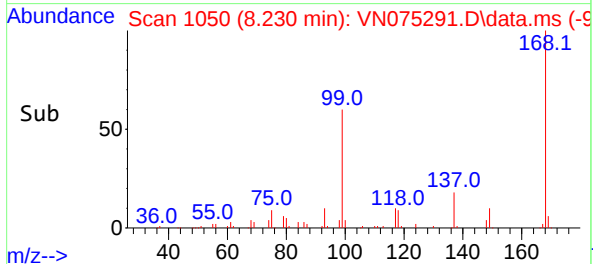
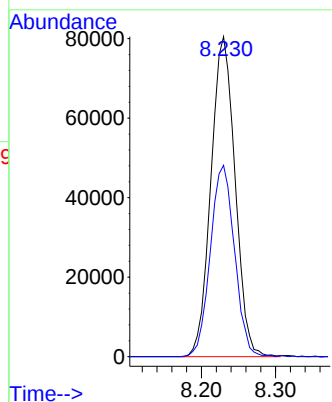


Tgt Ion:168 Resp: 182120

Ion Ratio Lower Upper

168 100

99 59.8 51.6 77.4



#5

Bromomethane

Concen: Below Cal

RT: 2.936 min Scan# 150

Delta R.T. 0.018 min

Lab File: VN075291.D

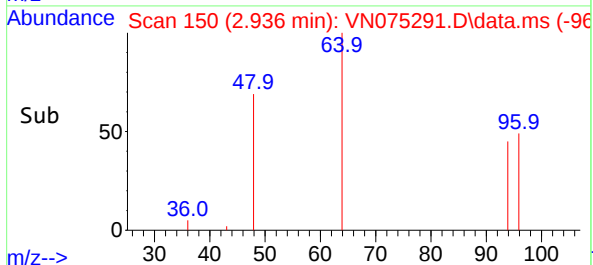
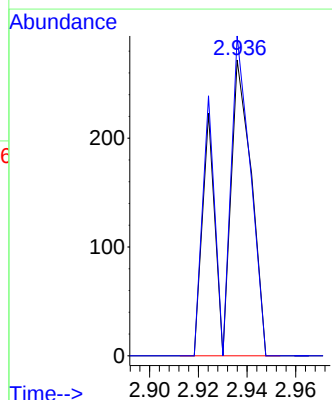
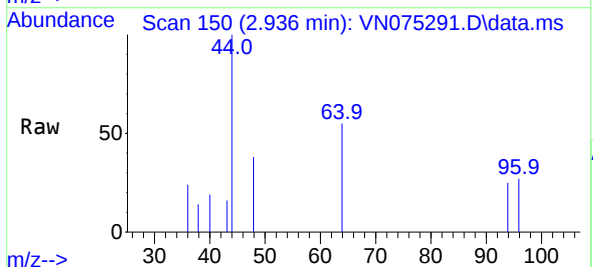
Acq: 16 Nov 2022 16:27

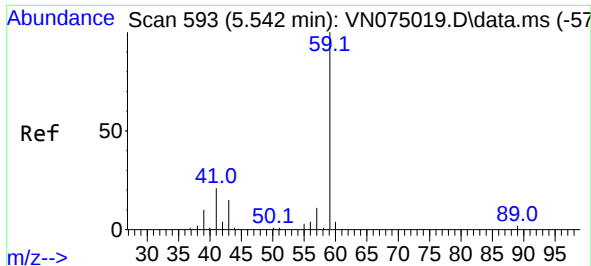
Tgt Ion: 94 Resp: 234

Ion Ratio Lower Upper

94 100

96 108.1 71.8 107.6#

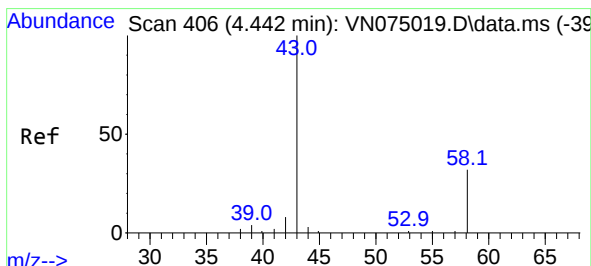
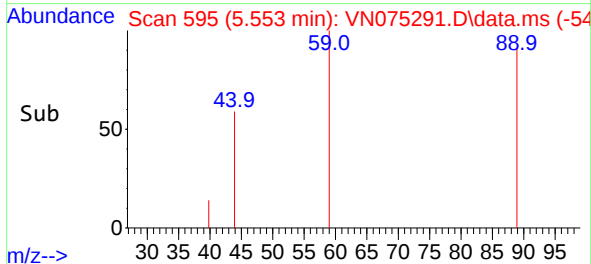
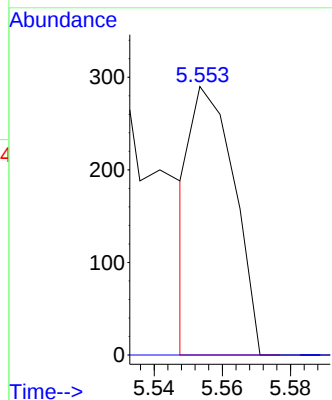
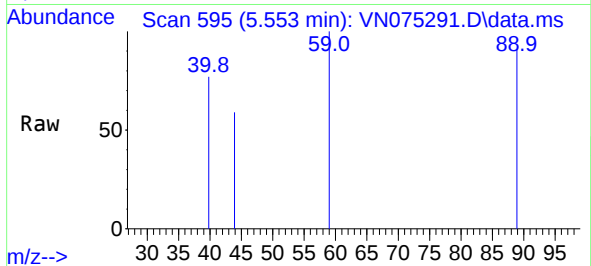




#11
Tert butyl alcohol
Concen: 0.437 ug/l
RT: 5.553 min Scan# 59
Delta R.T. 0.011 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

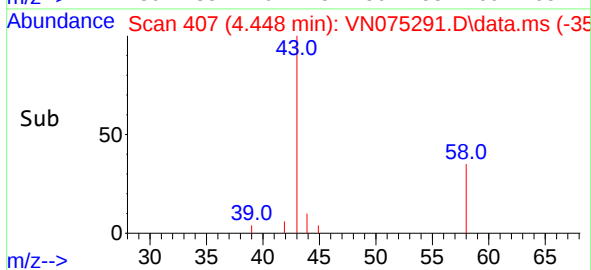
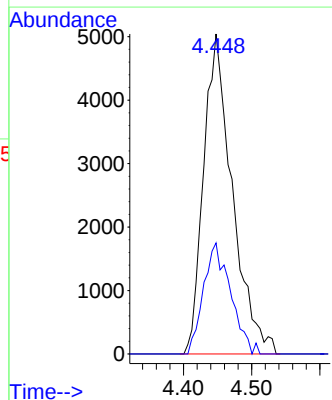
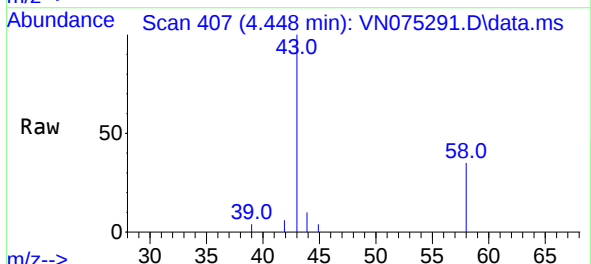
Instrument :
MSVOA_N
ClientSampleId :

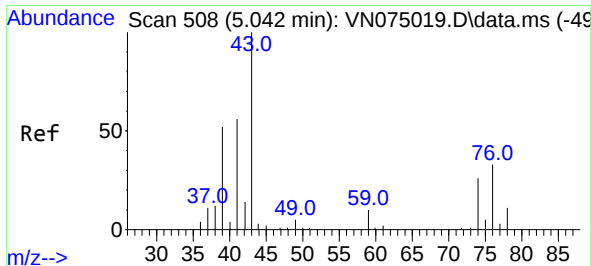
Tgt Ion: 59 Resp: 250
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#16
Acetone
Concen: 14.213 ug/l
RT: 4.448 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

Tgt Ion: 43 Resp: 14768
Ion Ratio Lower Upper
43 100
58 34.7 25.5 38.3

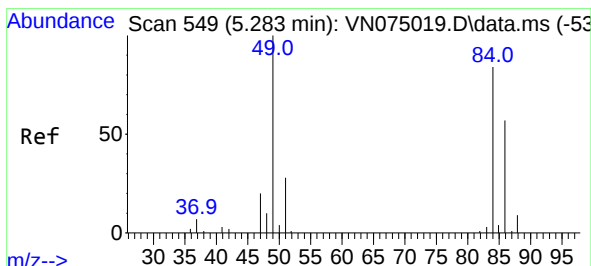
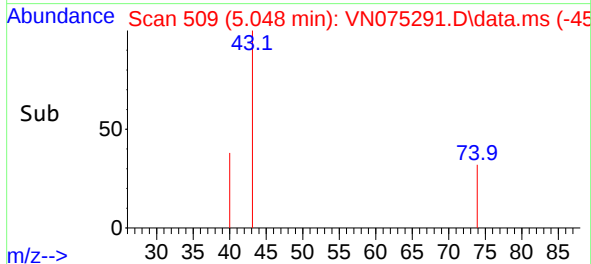
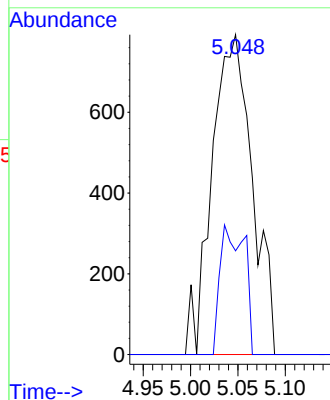
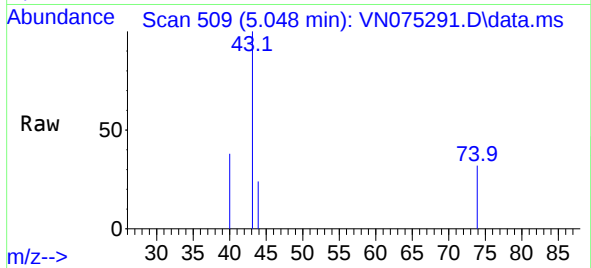




#18
Methyl Acetate
Concen: 0.691 ug/l
RT: 5.048 min Scan# 508
Delta R.T. 0.006 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

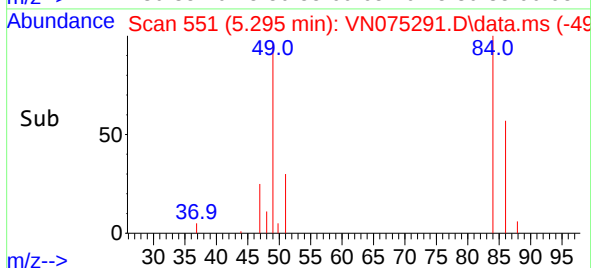
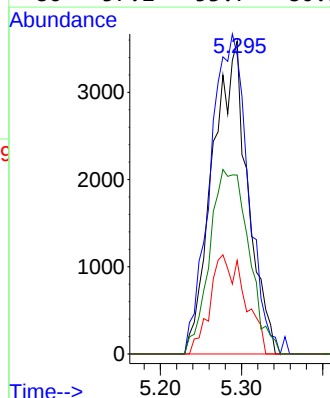
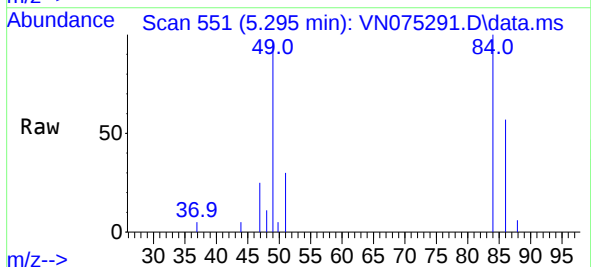
Instrument :
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ClientSampleId :

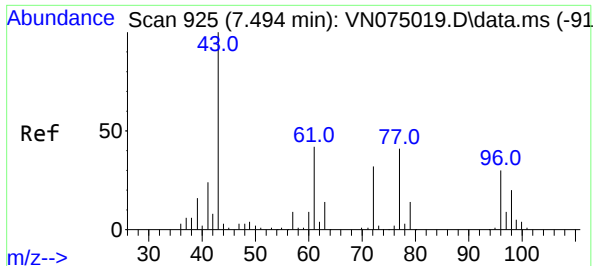
Tgt Ion: 43 Resp: 2346
Ion Ratio Lower Upper
43 100
74 24.4 22.0 33.0



#20
Methylene Chloride
Concen: 4.664 ug/l
RT: 5.295 min Scan# 551
Delta R.T. 0.012 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

Tgt Ion: 84 Resp: 10804
Ion Ratio Lower Upper
84 100
49 95.6 94.9 142.3
51 29.9 26.8 40.2
86 57.2 53.7 80.5

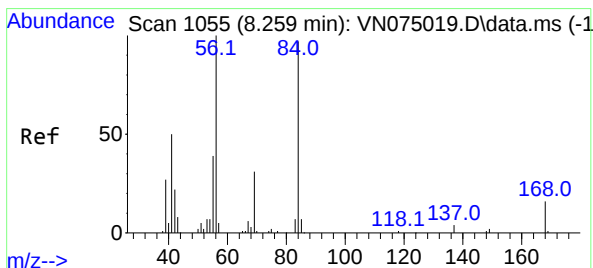
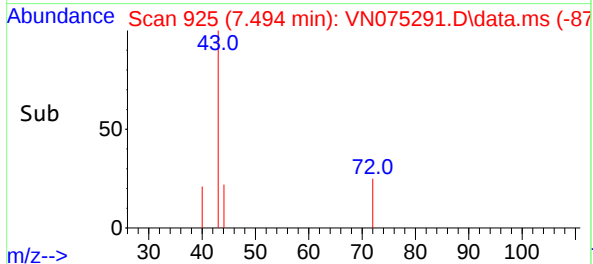
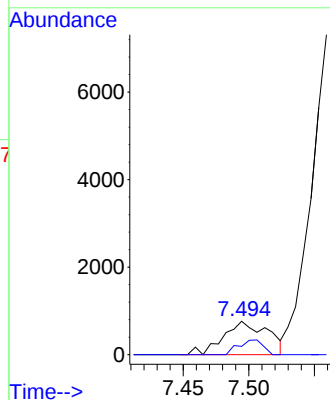
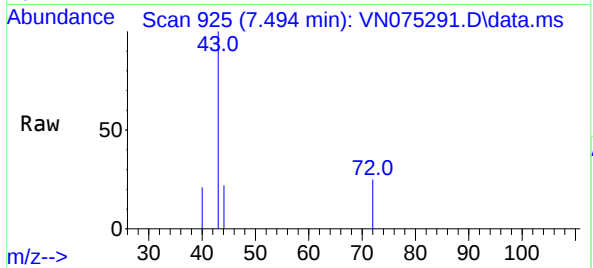




#25
2-Butanone
Concen: 1.100 ug/l
RT: 7.494 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

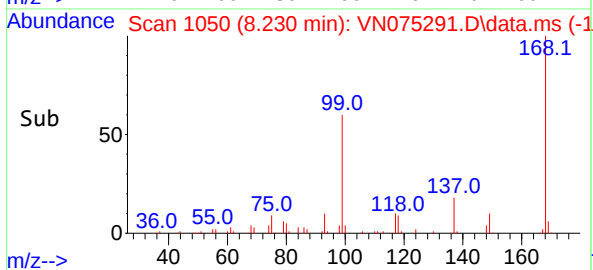
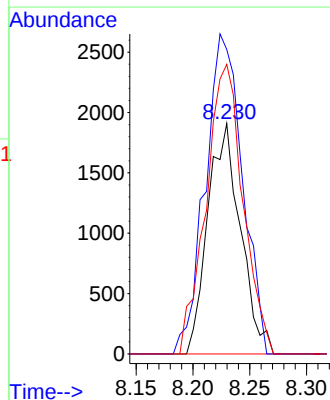
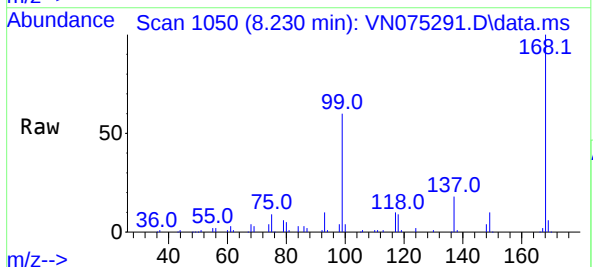
Instrument :
MSVOA_N
ClientSampleId :

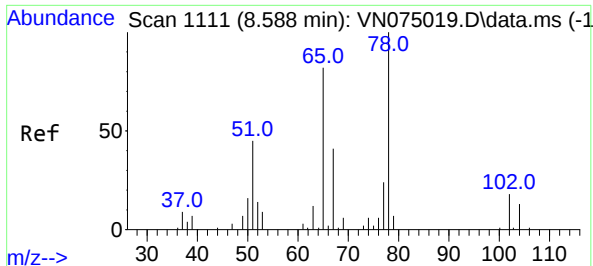
Tgt Ion: 43 Resp: 1798
Ion Ratio Lower Upper
43 100
72 25.0 25.5 38.3#



#31
Cyclohexane
Concen: 1.046 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.029 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

Tgt Ion: 56 Resp: 3819
Ion Ratio Lower Upper
56 100
69 132.2 25.2 37.8#
84 125.7 77.8 116.8#

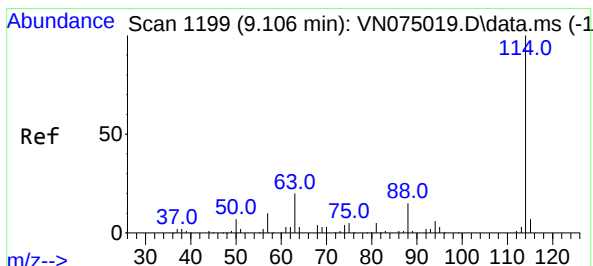
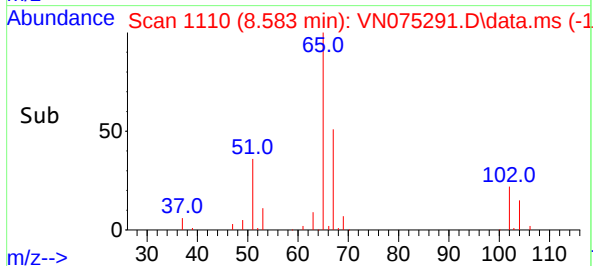
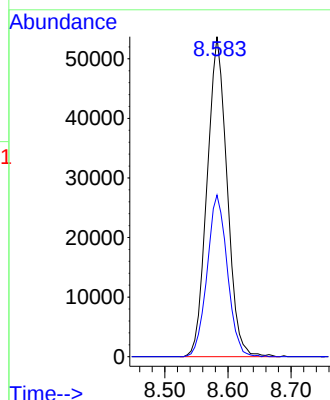
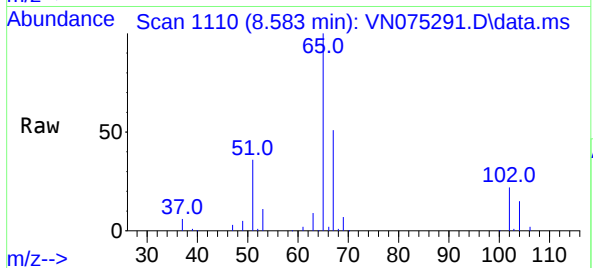




#33
1,2-Dichloroethane-d4
Concen: 48.053 ug/l
RT: 8.583 min Scan# 1111
Delta R.T. -0.005 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

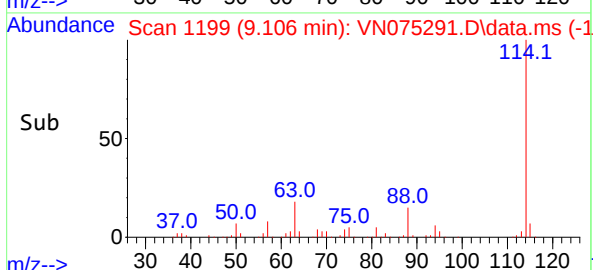
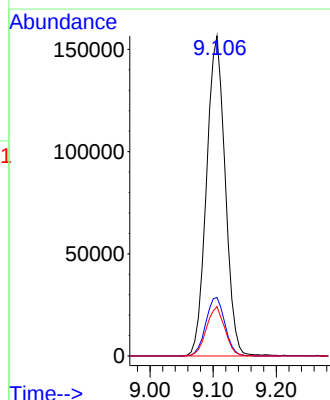
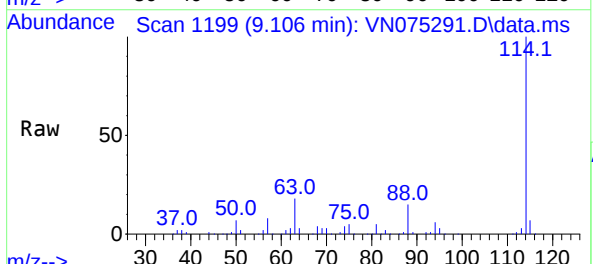
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ClientSampleId :

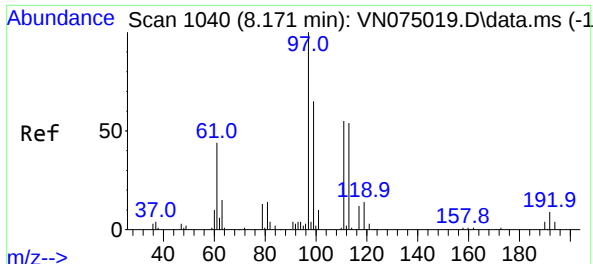
Tgt Ion: 65 Resp: 117915
Ion Ratio Lower Upper
65 100
67 51.0 0.0 102.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1199
Delta R.T. 0.000 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

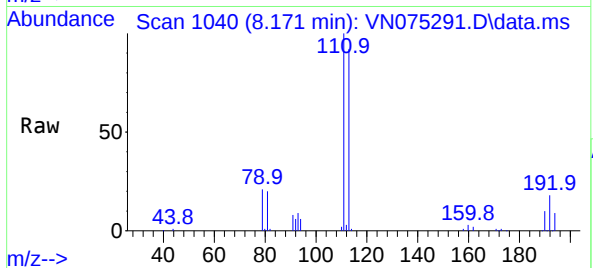
Tgt Ion: 114 Resp: 321278
Ion Ratio Lower Upper
114 100
63 18.2 0.0 39.6
88 15.5 0.0 29.0



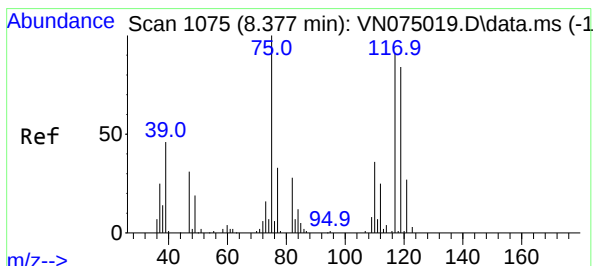
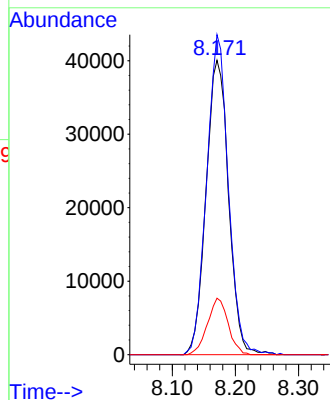
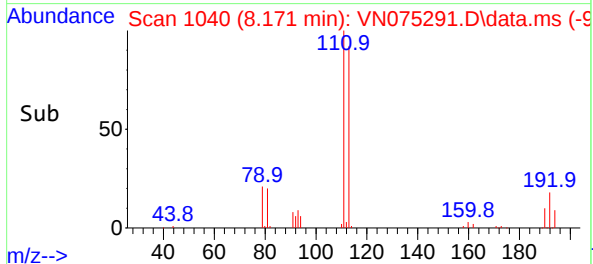


#35
Dibromofluoromethane
Concen: 52.686 ug/l
RT: 8.171 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

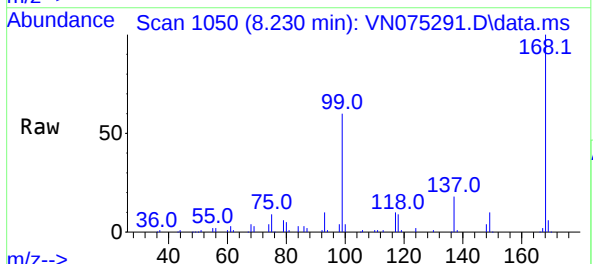
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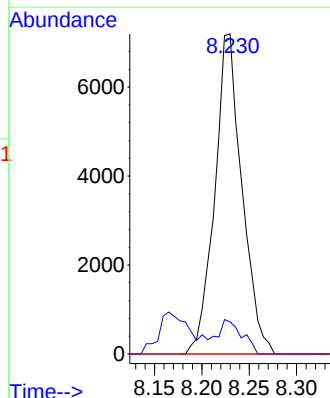
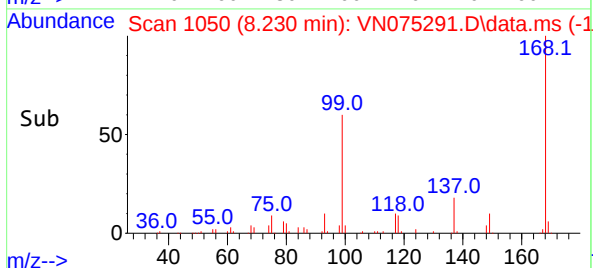
Tgt Ion:113 Resp: 99369
Ion Ratio Lower Upper
113 100
111 104.5 80.5 120.7
192 17.7 13.2 19.8

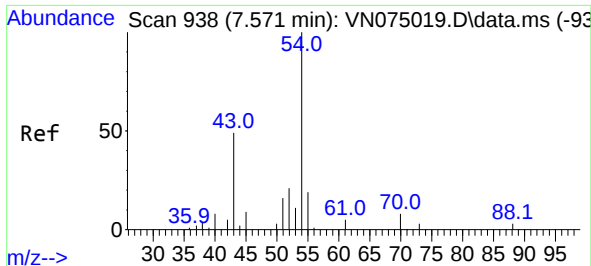


#36
1,1-Dichloropropene
Concen: 4.943 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.147 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27



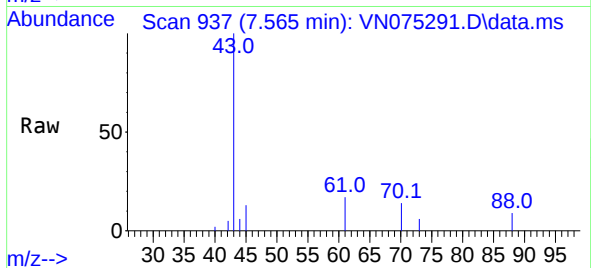
Tgt Ion: 75 Resp: 14434
Ion Ratio Lower Upper
75 100
110 9.6 17.8 53.3#
77 0.0 24.6 37.0#



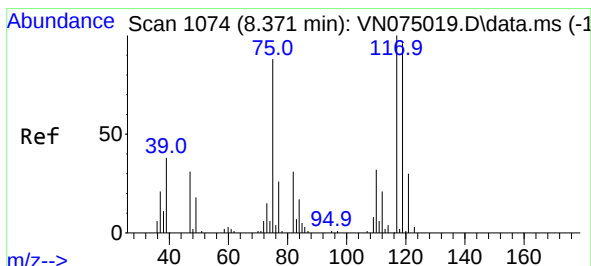
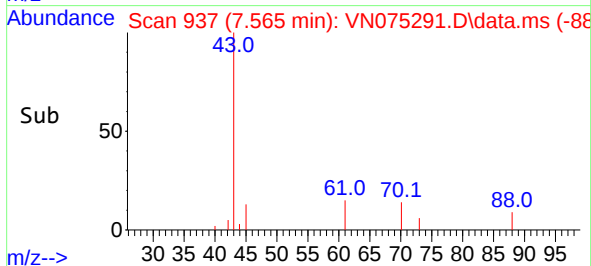
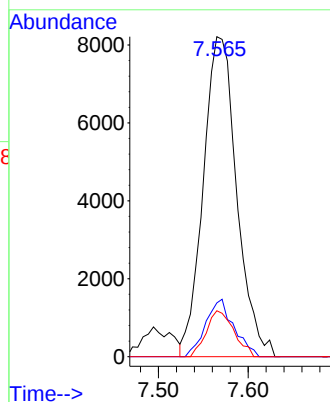


#37
Ethyl Acetate
Concen: 6.643 ug/l
RT: 7.565 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

Instrument :
MSVOA_N
ClientSampleId :

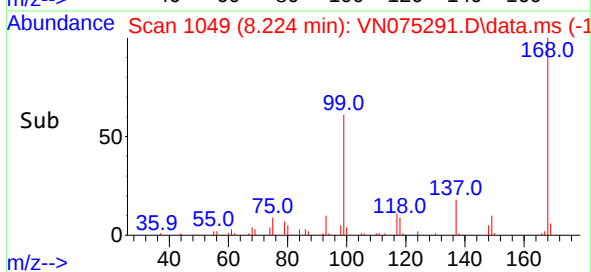
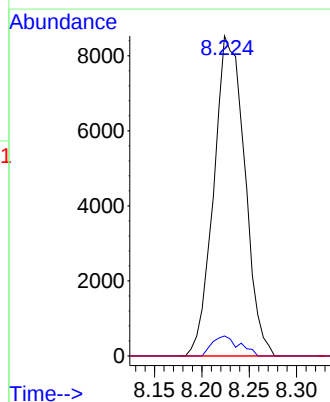
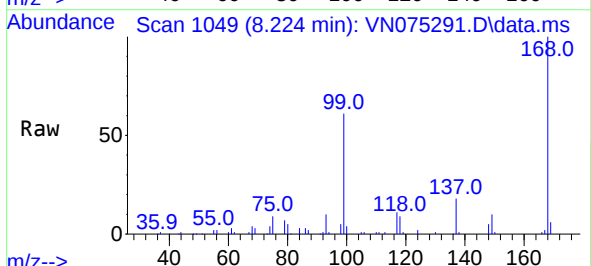


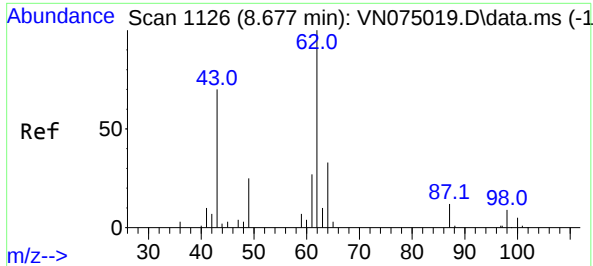
Tgt Ion:	43	Resp:	21272
Ion	Ratio	Lower	Upper
43	100		
61	15.2	12.2	18.4
70	11.8	9.4	14.2



#38
Carbon Tetrachloride
Concen: 6.024 ug/l
RT: 8.224 min Scan# 1049
Delta R.T. -0.147 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

Tgt Ion:	117	Resp:	19349
Ion	Ratio	Lower	Upper
117	100		
119	6.3	76.7	115.1#
121	0.0	23.9	35.9#

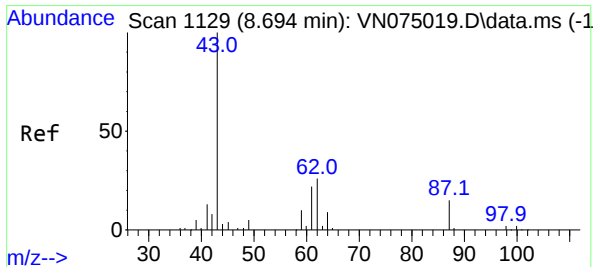
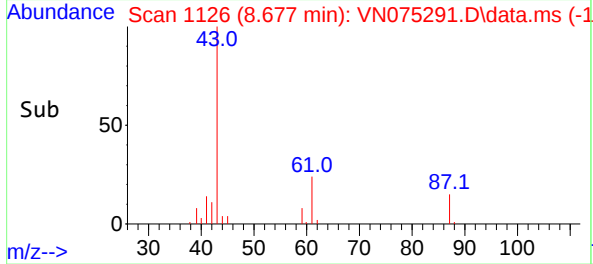
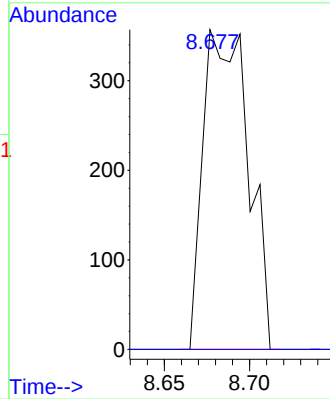
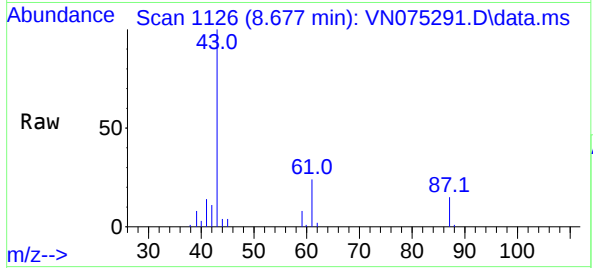




#42
 1,2-Dichloroethane
 Concen: 0.203 ug/l
 RT: 8.677 min Scan# 1126
 Delta R.T. -0.000 min
 Lab File: VN075291.D
 Acq: 16 Nov 2022 16:27

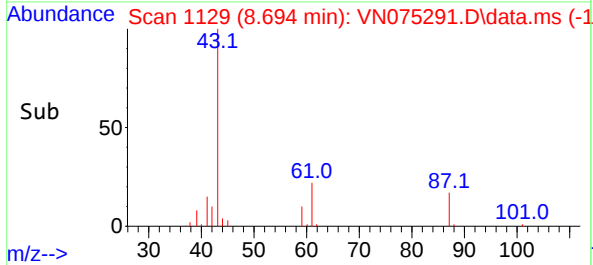
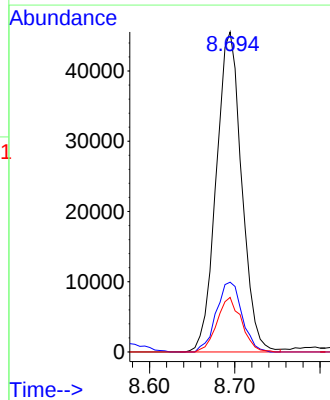
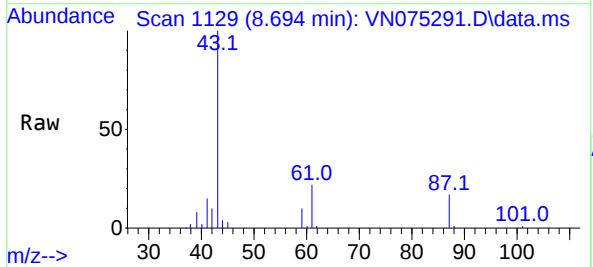
Instrument :
 MSVOA_N
 ClientSampleId :

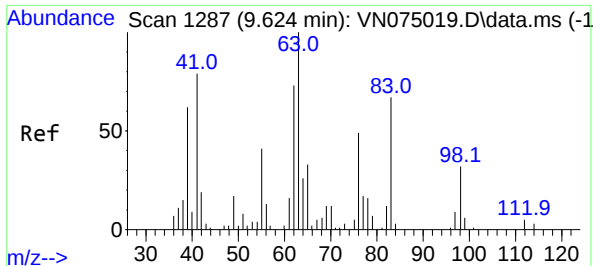
Tgt Ion:	62	Resp:	661
Ion Ratio	Lower	Upper	
62	100		
98	0.0	0.0	18.2



#43
 Isopropyl Acetate
 Concen: 19.027 ug/l
 RT: 8.694 min Scan# 1129
 Delta R.T. 0.000 min
 Lab File: VN075291.D
 Acq: 16 Nov 2022 16:27

Tgt Ion:	43	Resp:	94509
Ion Ratio	Lower	Upper	
43	100		
61	22.1	22.4	33.6#
87	16.4	12.5	18.7





#45

1,2-Dichloropropane

Concen: 0.558 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN075291.D

Acq: 16 Nov 2022 16:27

Instrument :

MSVOA_N

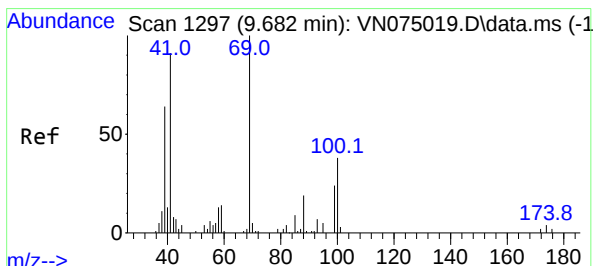
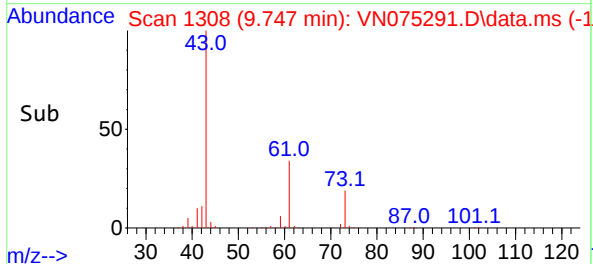
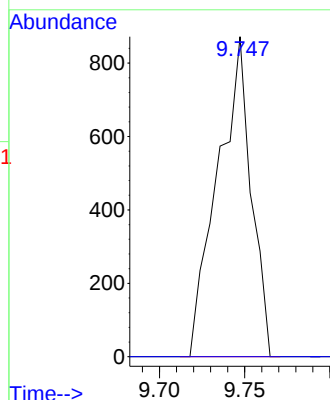
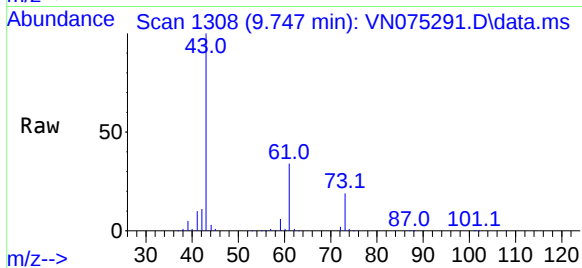
ClientSampleId :

Tgt Ion: 63 Resp: 1188

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 1.267 ug/l

RT: 9.665 min Scan# 1294

Delta R.T. -0.017 min

Lab File: VN075291.D

Acq: 16 Nov 2022 16:27

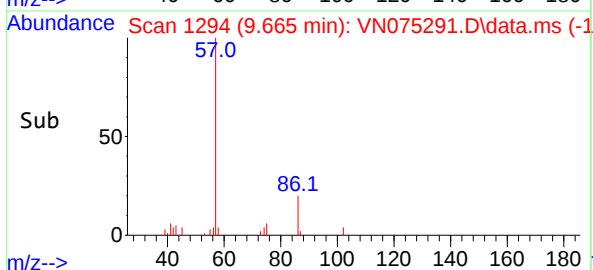
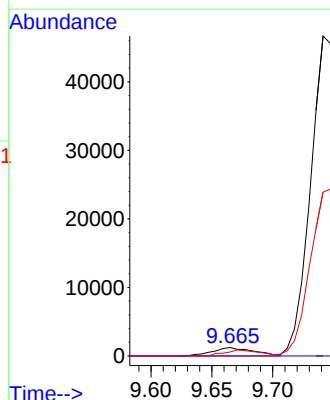
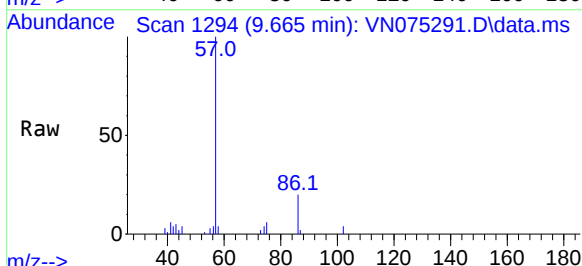
Tgt Ion: 41 Resp: 2887

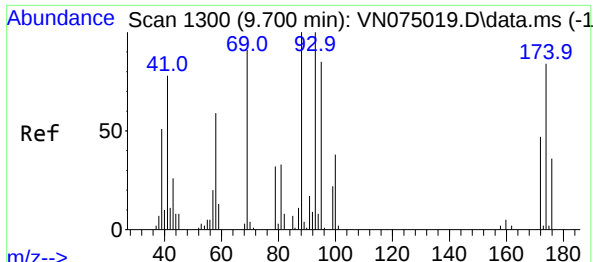
Ion Ratio Lower Upper

41 100

69 0.0 80.2 120.2#

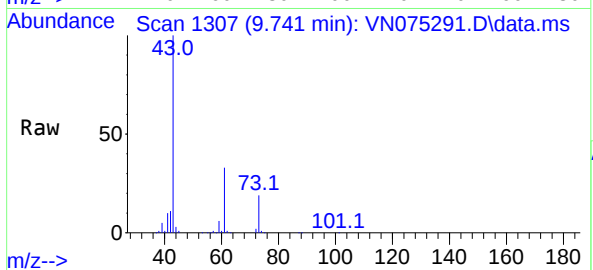
39 58.9 56.2 84.2



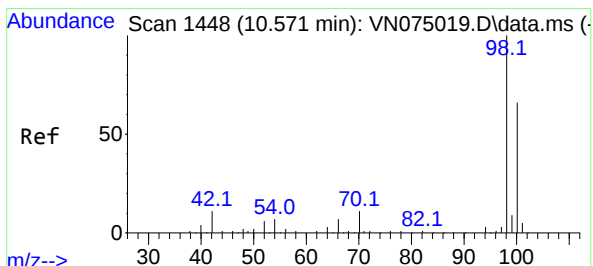
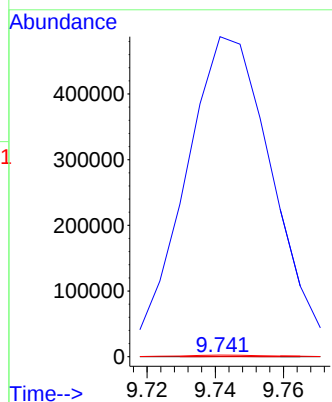
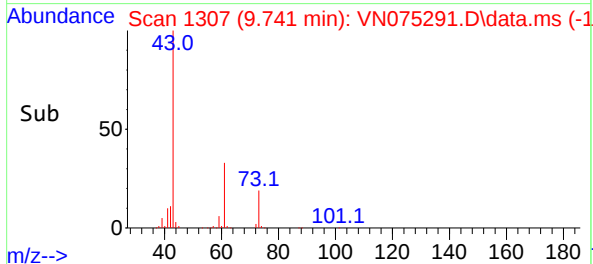


#49
1,4-Dioxane
Concen: 2.011 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

Instrument :
MSVOA_N
ClientSampleId :

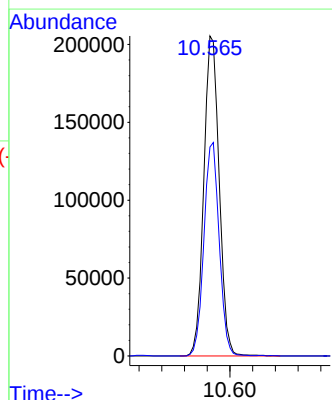
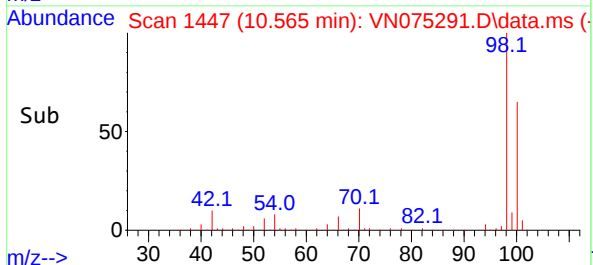
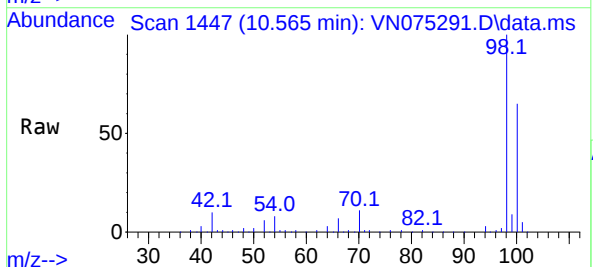


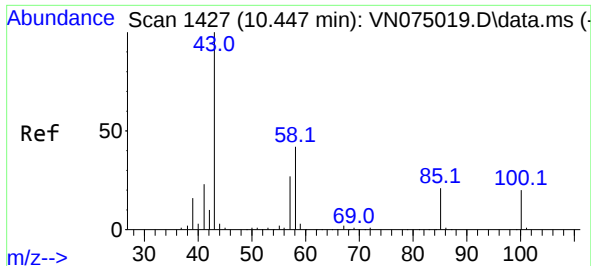
Tgt Ion: 88 Resp: 120
Ion Ratio Lower Upper
88 100
43 744370.0 17.5 26.3#
58 3599.2 49.8 74.8#



#50
Toluene-d8
Concen: 52.640 ug/l
RT: 10.565 min Scan# 1447
Delta R.T. -0.006 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

Tgt Ion: 98 Resp: 385189
Ion Ratio Lower Upper
98 100
100 66.1 53.0 79.6

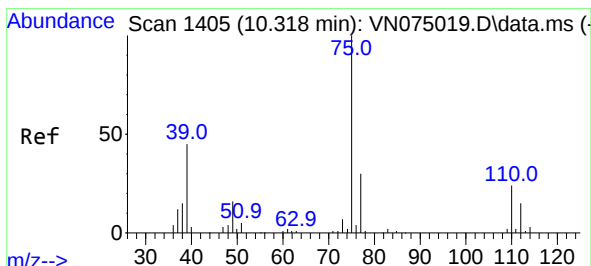
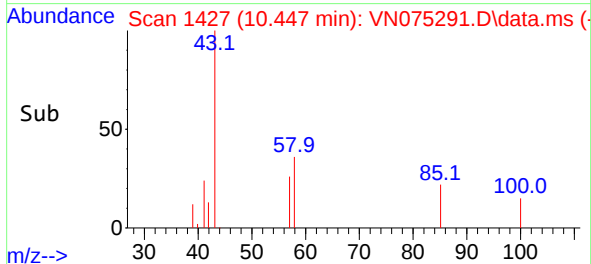
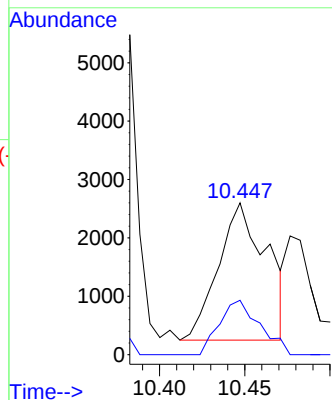
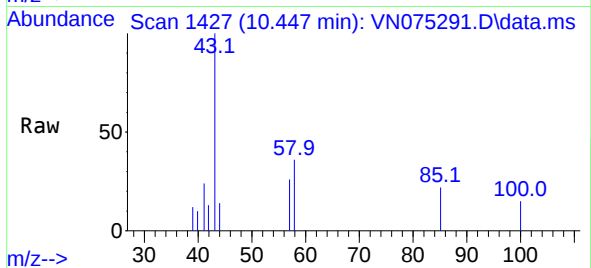




#51
4-Methyl-2-Pentanone
Concen: 1.442 ug/l
RT: 10.447 min Scan# 1412
Delta R.T. 0.000 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

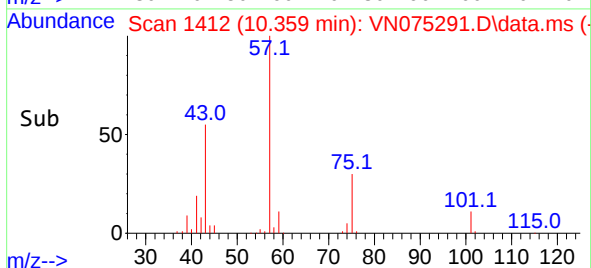
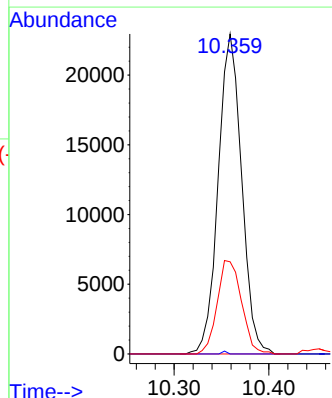
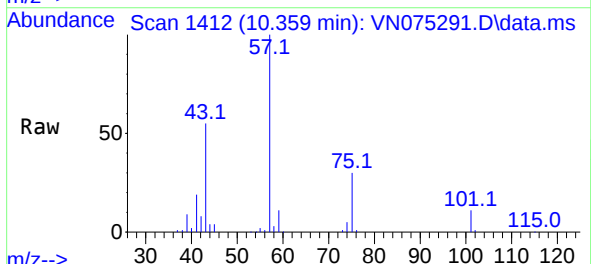
Instrument :
MSVOA_N
ClientSampleId :

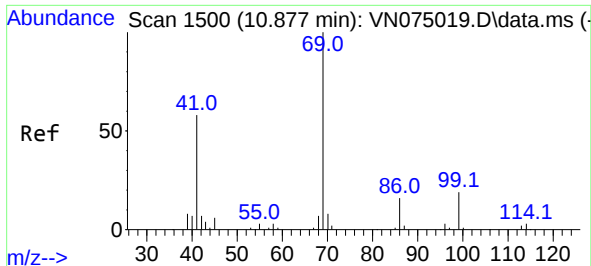
Tgt Ion: 43 Resp: 4623
Ion Ratio Lower Upper
43 100
58 33.4 33.6 50.4#



#54
cis-1,3-Dichloropropene
Concen: 10.970 ug/l
RT: 10.359 min Scan# 1412
Delta R.T. 0.041 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

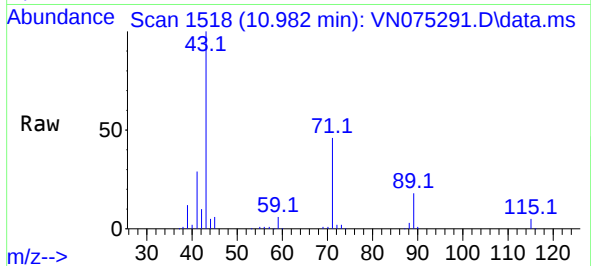
Tgt Ion: 75 Resp: 39422
Ion Ratio Lower Upper
75 100
77 0.0 23.7 35.5#
39 28.8 35.8 53.6#



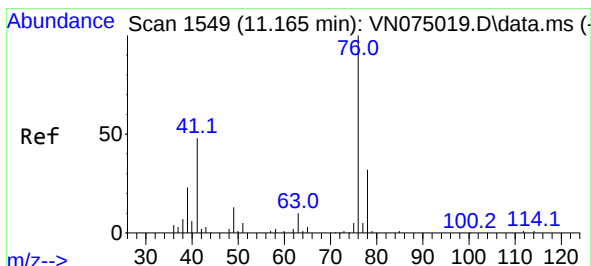
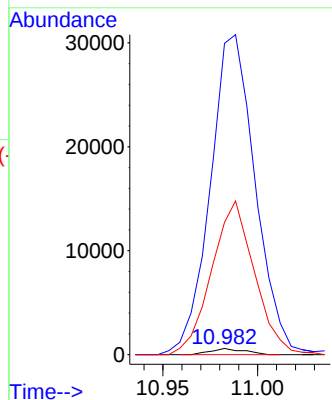
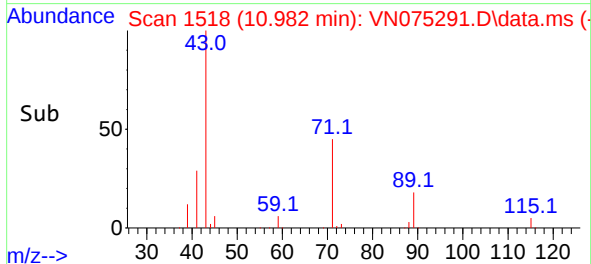


#56
Ethyl methacrylate
Concen: 0.206 ug/l
RT: 10.982 min Scan# 11
Delta R.T. 0.105 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

Instrument :
MSVOA_N
ClientSampleId :

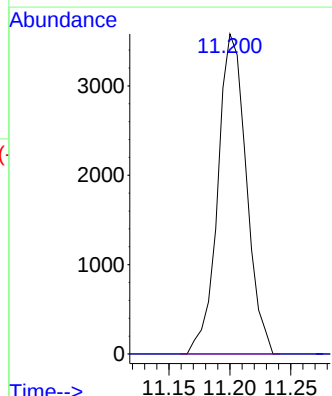
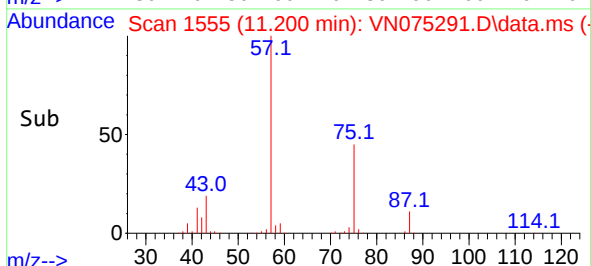
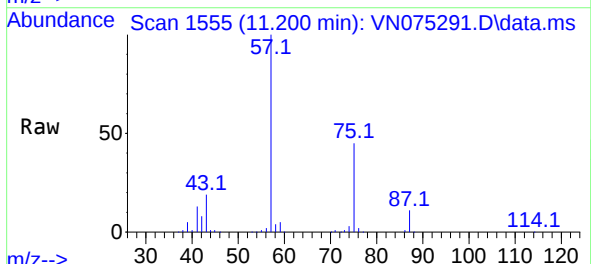


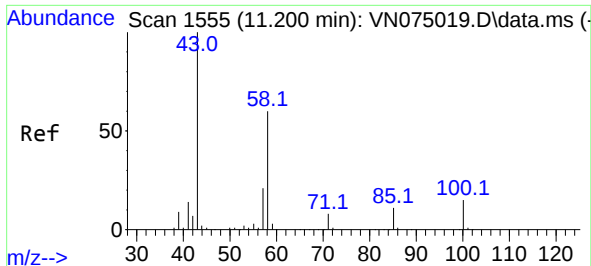
Tgt Ion: 69 Resp: 743
Ion Ratio Lower Upper
69 100
41 6891.8 45.6 68.4#
39 3142.1 28.5 42.7#



#57
1,3-Dichloropropane
Concen: 1.479 ug/l
RT: 11.200 min Scan# 1555
Delta R.T. 0.035 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

Tgt Ion: 76 Resp: 5835
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

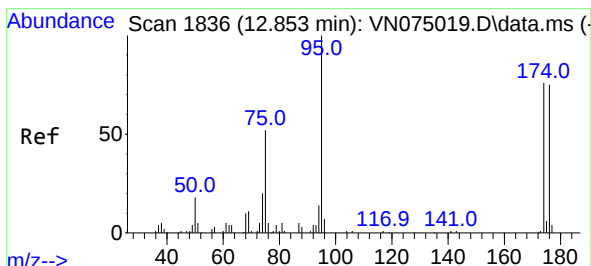
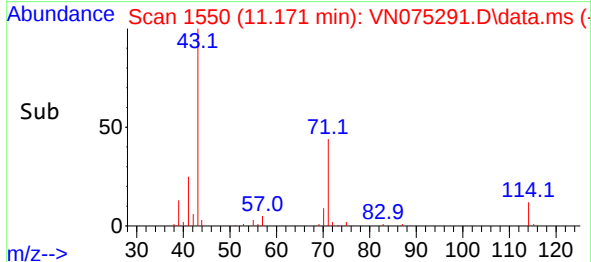
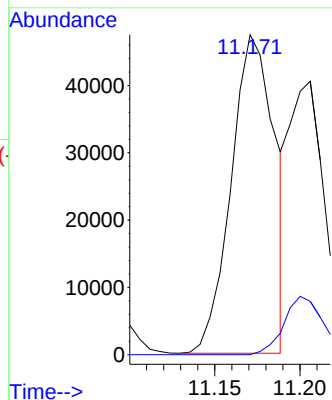
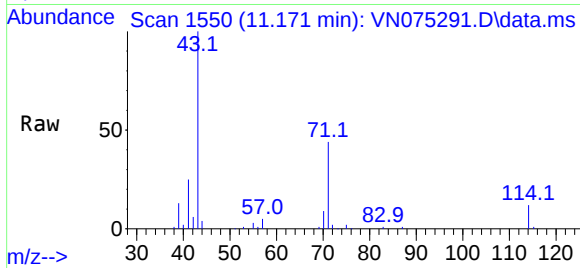




#59
2-Hexanone
Concen: 34.515 ug/l
RT: 11.171 min Scan# 111
Delta R.T. -0.029 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

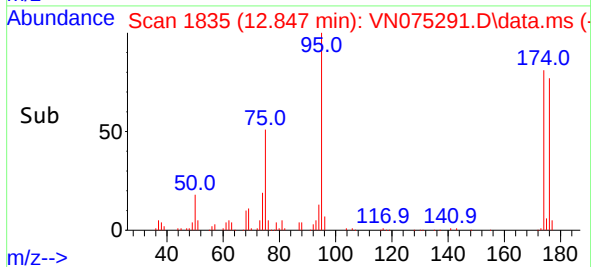
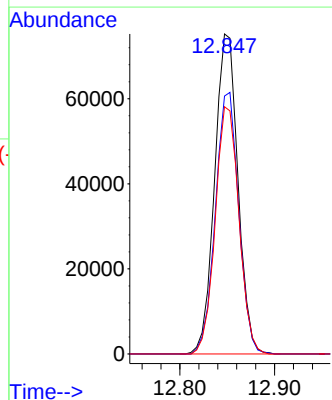
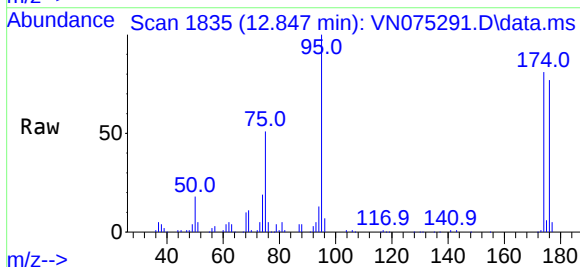
Instrument :
MSVOA_N
ClientSampleId :

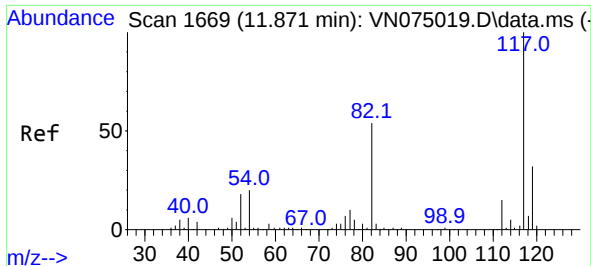
Tgt Ion: 43 Resp: 83966
Ion Ratio Lower Upper
43 100
58 0.0 29.6 88.8#



#62
4-Bromofluorobenzene
Concen: 49.989 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.006 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

Tgt Ion: 95 Resp: 128495
Ion Ratio Lower Upper
95 100
174 82.0 0.0 147.4
176 78.5 0.0 142.2

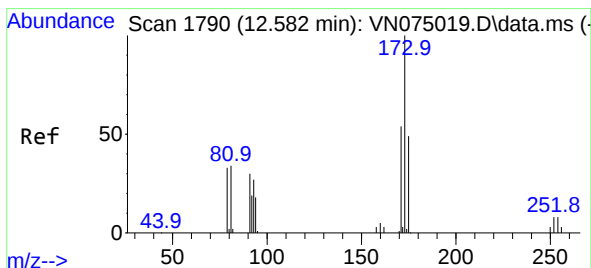
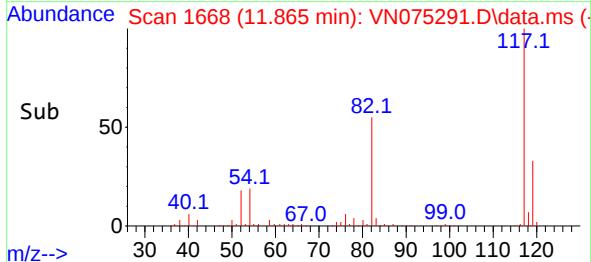
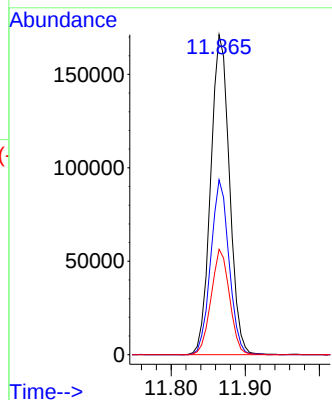
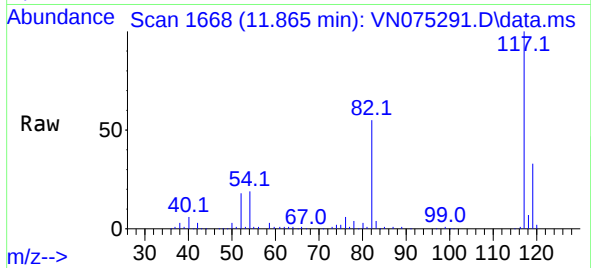




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

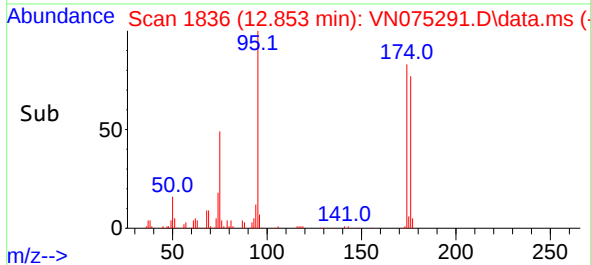
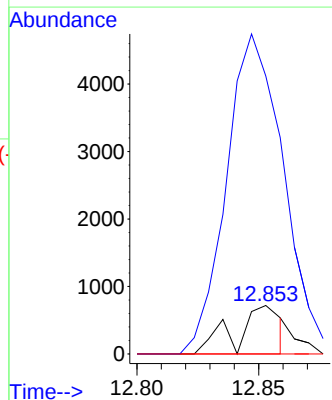
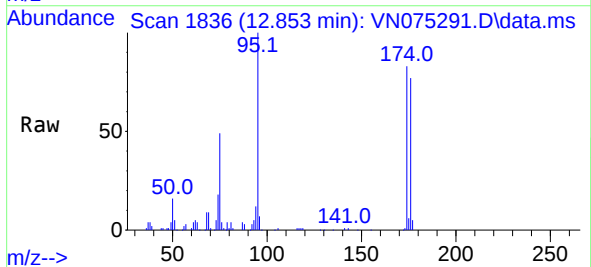
Instrument :
MSVOA_N
ClientSampleId :

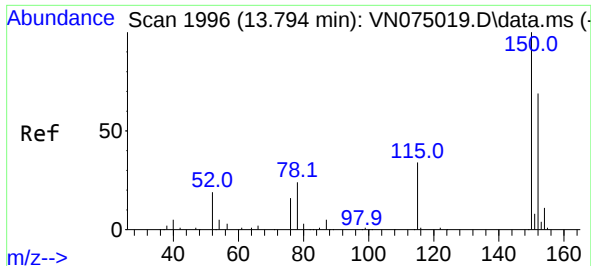
Tgt Ion:117 Resp: 301285
Ion Ratio Lower Upper
117 100
82 54.7 43.1 64.7
119 32.9 25.5 38.3



#71
Bromoform
Concen: 0.517 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

Tgt Ion:173 Resp: 924
Ion Ratio Lower Upper
173 100
175 738.6 24.6 74.0#
254 0.0 0.0 0.0

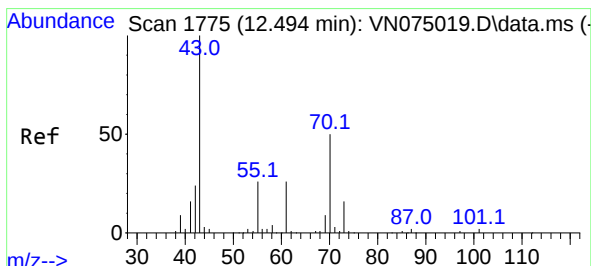
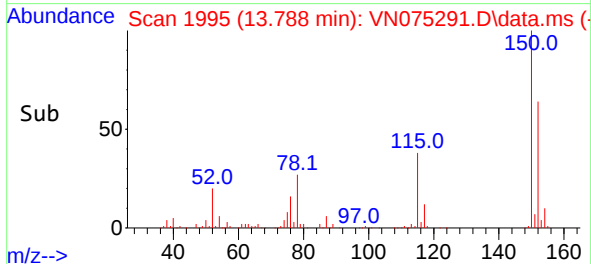
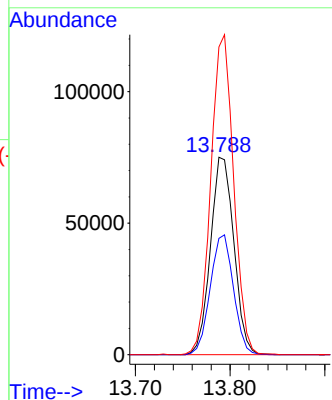
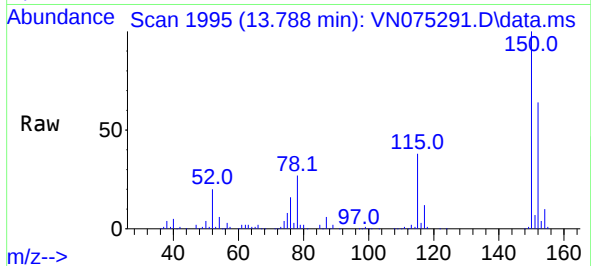




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 1995
Delta R.T. -0.006 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

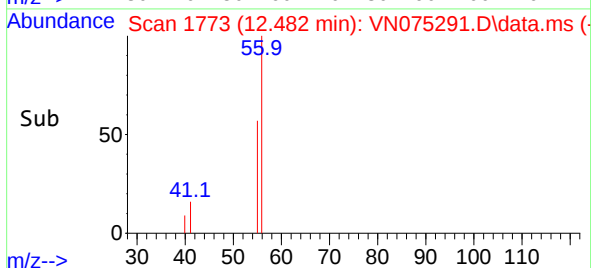
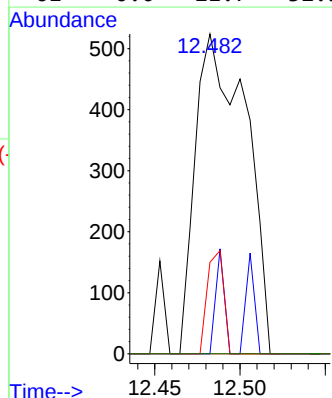
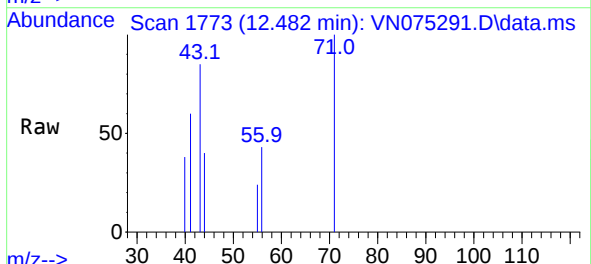
Instrument :
MSVOA_N
ClientSampleId :

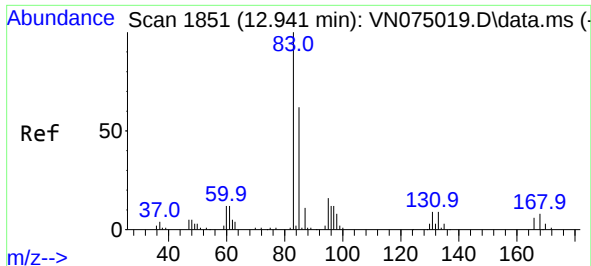
Tgt Ion:152 Resp: 129063
Ion Ratio Lower Upper
152 100
115 60.2 30.2 90.6
150 158.1 0.0 348.4



#74
N-ethyl acetate
Concen: 0.282 ug/l
RT: 12.482 min Scan# 1773
Delta R.T. -0.012 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

Tgt Ion: 43 Resp: 1082
Ion Ratio Lower Upper
43 100
70 5.6 39.8 59.8#
55 10.4 19.9 29.9#
61 0.0 21.7 32.5#

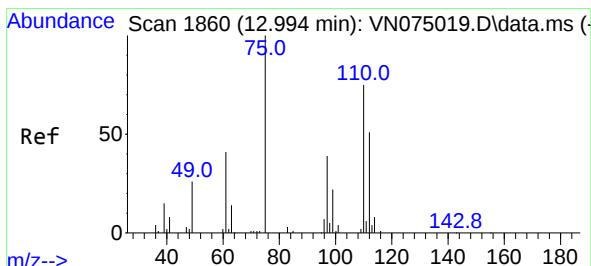
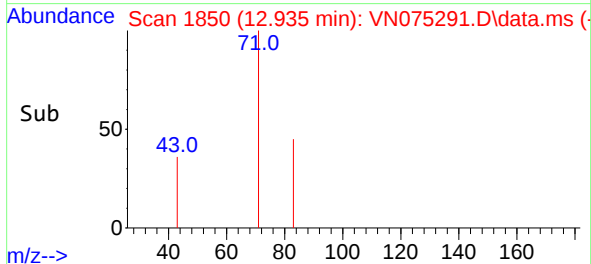
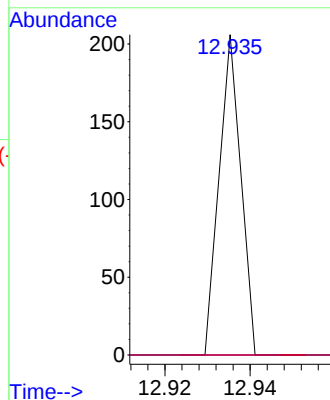
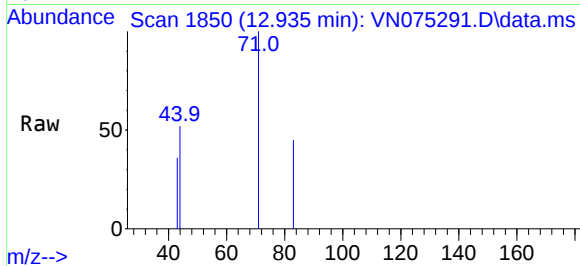




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.935 min Scan# 1850
Delta R.T. -0.006 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

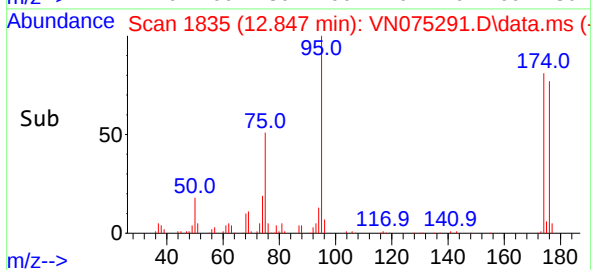
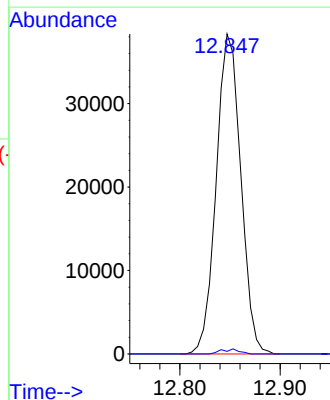
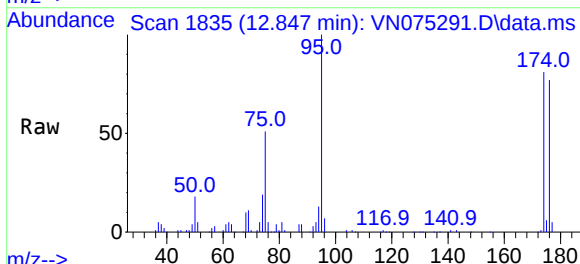
Instrument :
MSVOA_N
ClientSampleId :

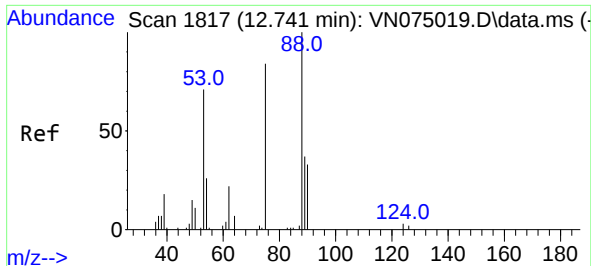
Tgt Ion: 83 Resp: 73
Ion Ratio Lower Upper
83 100
131 0.0 5.1 15.3#
85 0.0 31.6 94.7#



#76
1,2,3-Trichloropropane
Concen: 23.814 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.147 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

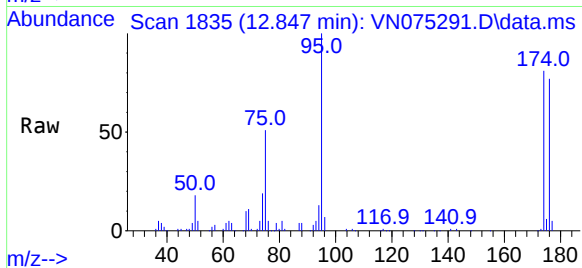
Tgt Ion: 75 Resp: 65260
Ion Ratio Lower Upper
75 100
77 1.1 75.6 226.8#



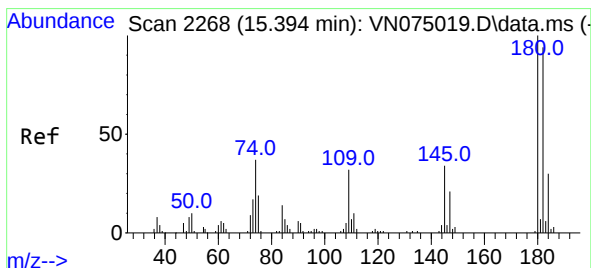
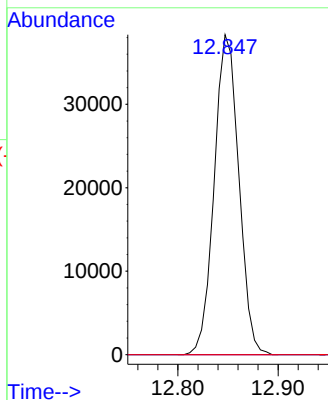
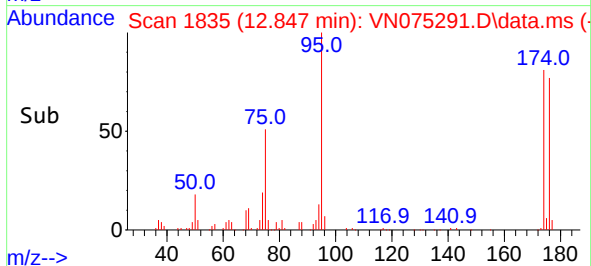


#81
trans-1,4-Dichloro-2-butene
Concen: 61.131 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

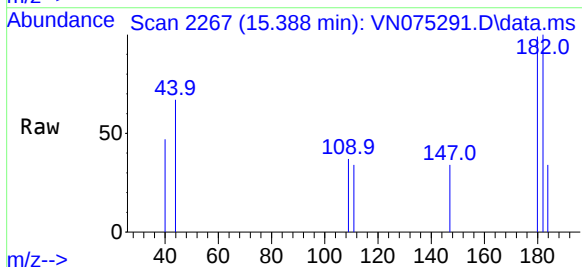
Instrument :
MSVOA_N
ClientSampleId :



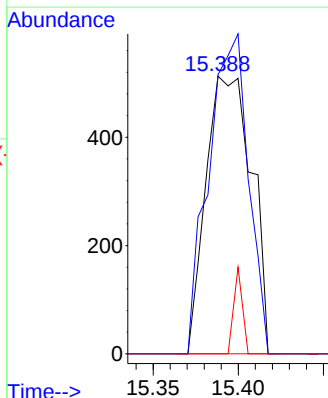
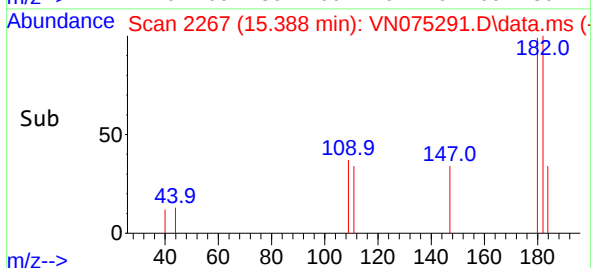
Tgt Ion: 75 Resp: 65260
Ion Ratio Lower Upper
75 100
53 0.0 78.5 117.7#
89 0.0 37.7 56.5#

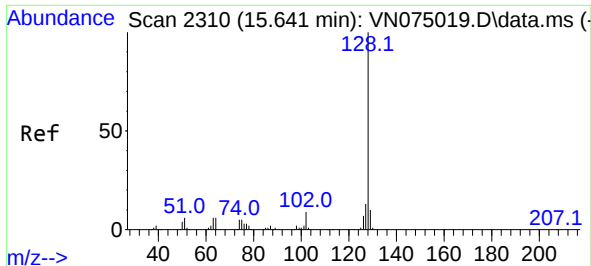


#93
1,2,4-Trichlorobenzene
Concen: 0.501 ug/l
RT: 15.388 min Scan# 2267
Delta R.T. -0.006 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27



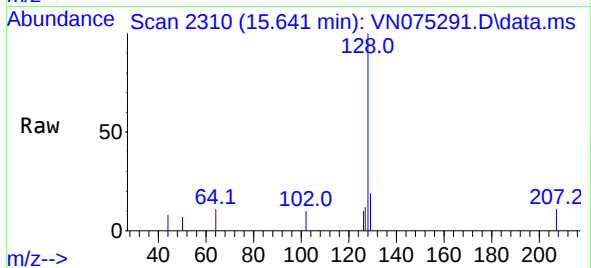
Tgt Ion: 180 Resp: 957
Ion Ratio Lower Upper
180 100
182 99.9 47.8 143.4
145 5.9 16.8 50.3#



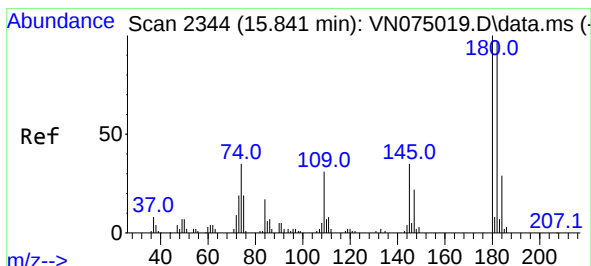
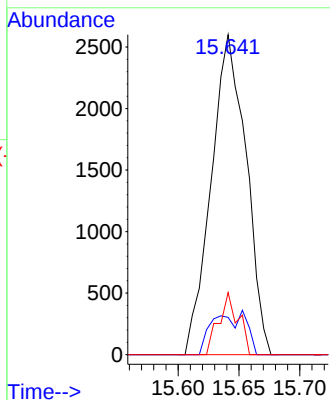
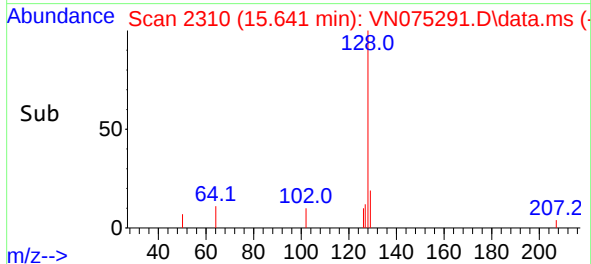


#95
Naphthalene
Concen: 0.707 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27

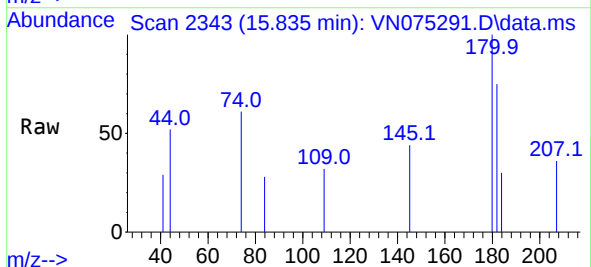
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:128 Resp: 5197
Ion Ratio Lower Upper
128 100
127 12.9 10.4 15.6
129 10.8 8.6 12.8



#96
1,2,3-Trichlorobenzene
Concen: 0.629 ug/l
RT: 15.835 min Scan# 2343
Delta R.T. -0.006 min
Lab File: VN075291.D
Acq: 16 Nov 2022 16:27



Tgt Ion:180 Resp: 1195
Ion Ratio Lower Upper
180 100
182 73.4 47.3 141.8
145 35.3 17.6 52.9

