

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120722\
 Data File : VN075618.D
 Acq On : 07 Dec 2022 19:55
 Operator : JC\MD
 Sample : N5897-19
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 2913

Quant Time: Dec 08 00:23:44 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112122W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 23 00:18:03 2022
 Response via : Initial Calibration

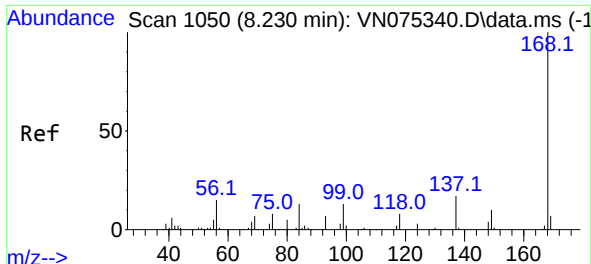
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	189081	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	319629	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	288669	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	130875	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	54915	54.106	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.220%			
35) Dibromofluoromethane	8.177	113	68241	54.349	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.700%			
50) Toluene-d8	10.571	98	145341	51.394	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.780%			
62) 4-Bromofluorobenzene	12.853	95	107892	51.688	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 103.380%			
Target Compounds					Qvalue	
3) Chloromethane	2.371	50	362	0.201	ug/l #	42
6) Chloroethane	3.089	64	359	0.209	ug/l #	45
8) Diethyl Ether	3.971	74	759	0.669	ug/l	95
11) Tert butyl alcohol	5.524	59	4417	10.367	ug/l #	72
16) Acetone	4.442	43	31819	33.610	ug/l	96
17) Carbon Disulfide	4.718	76	1190	0.262	ug/l #	74
18) Methyl Acetate	5.036	43	5756	1.146	ug/l #	85
20) Methylene Chloride	5.283	84	11898	5.048	ug/l	83
25) 2-Butanone	7.494	43	6043	4.572	ug/l	100
29) Tetrahydrofuran	7.871	42	277	0.345	ug/l #	44
31) Cyclohexane	8.230	56	3343	1.037	ug/l #	34
36) 1,1-Dichloropropene	8.230	75	12750	4.656	ug/l #	49
37) Ethyl Acetate	7.571	43	25561	10.367	ug/l	98
38) Carbon Tetrachloride	8.230	117	18073	6.008	ug/l #	16
42) 1,2-Dichloroethane	8.677	62	1027	0.366	ug/l #	75
43) Isopropyl Acetate	8.694	43	231300	58.446	ug/l #	75
45) 1,2-Dichloropropane	9.747	63	1330	0.666	ug/l #	42
48) Methyl methacrylate	9.665	41	3640	1.989	ug/l #	32
51) 4-Methyl-2-Pentanone	10.459	43	9039	3.586	ug/l #	73
53) t-1,3-Dichloropropene	10.735	75	671	0.228	ug/l	97
54) cis-1,3-Dichloropropene	10.365	75	48786	15.290	ug/l #	64
56) Ethyl methacrylate	10.994	69	1122	0.378	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	5996	1.671	ug/l #	42
59) 2-Hexanone	11.177	43	101253	53.495	ug/l #	21
74) N-amyl acetate	12.306	43	21885	7.445	ug/l #	48
76) 1,2,3-Trichloropropane	12.853	75	52562	21.241	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	52562	62.849	ug/l #	10

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

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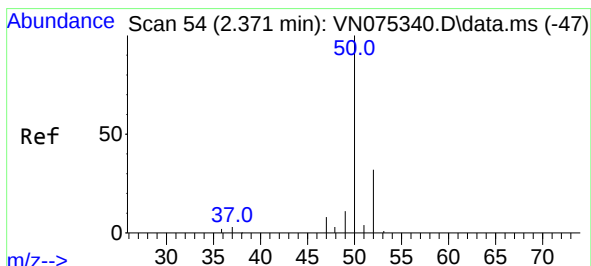
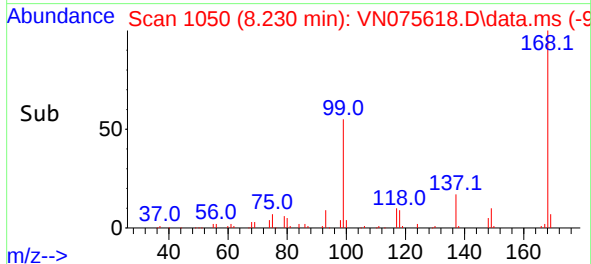
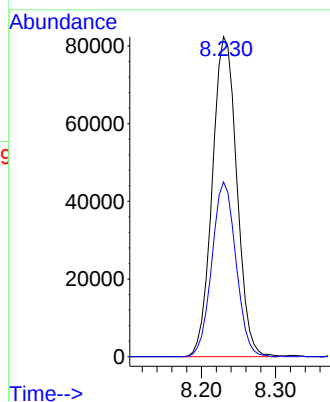
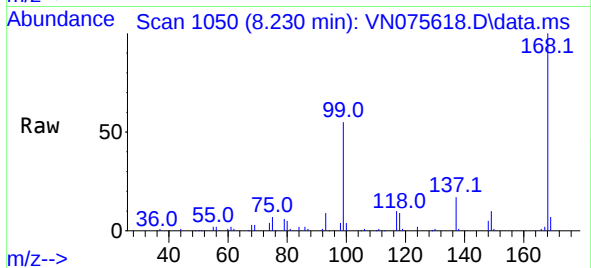




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

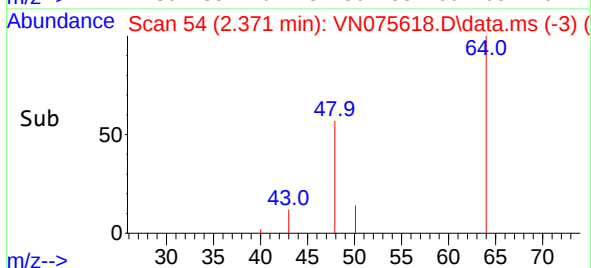
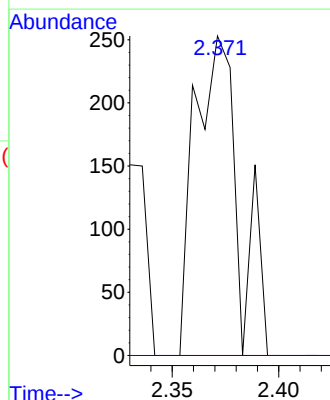
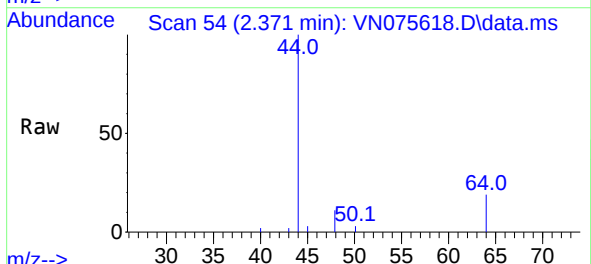
Instrument :
MSVOA_N
ClientSampleId :
2913

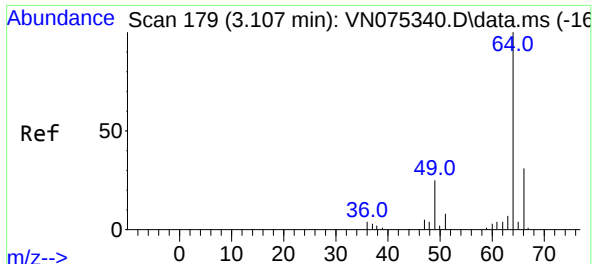
Tgt Ion:168 Resp: 189081
Ion Ratio Lower Upper
168 100
99 54.6 51.6 77.4



#3
Chloromethane
Concen: 0.201 ug/l
RT: 2.371 min Scan# 54
Delta R.T. 0.000 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

Tgt Ion: 50 Resp: 362
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.6#

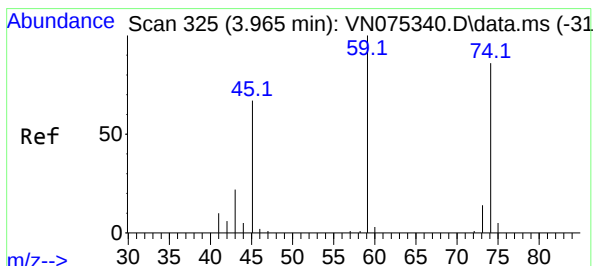
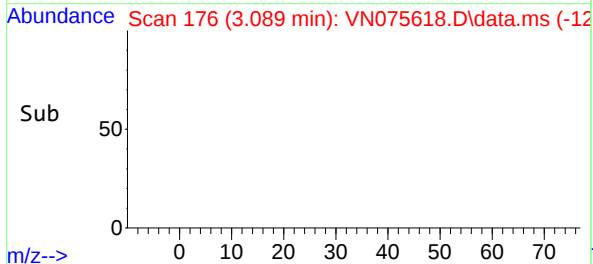
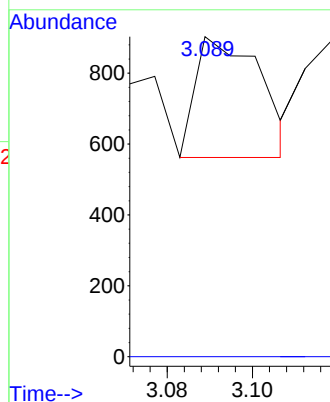
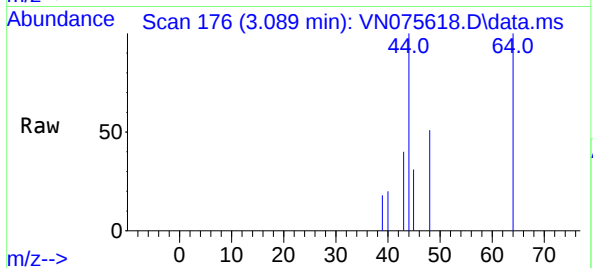




#6
Chloroethane
Concen: 0.209 ug/l
RT: 3.089 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

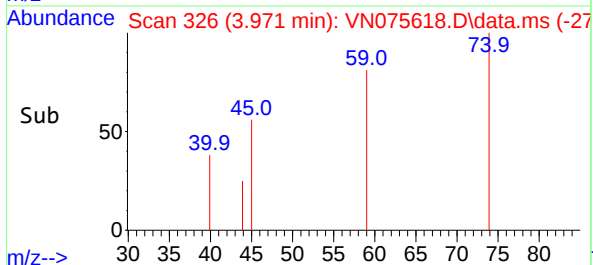
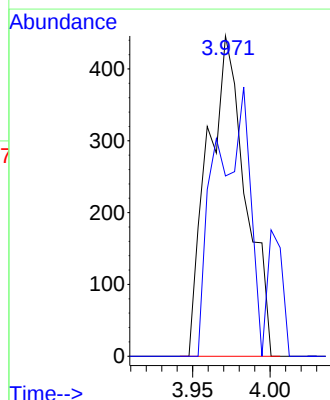
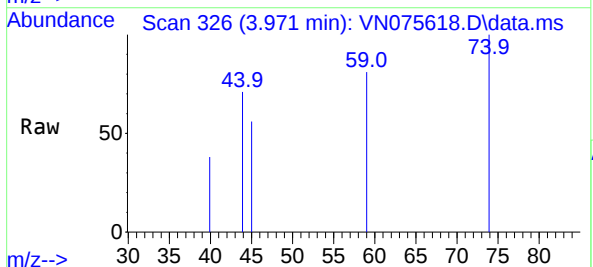
Instrument :
MSVOA_N
ClientSampleId :
2913

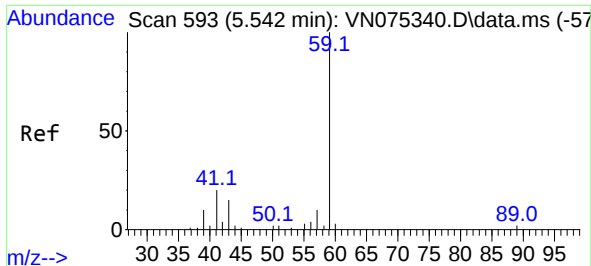
Tgt Ion: 64 Resp: 359
Ion Ratio Lower Upper
64 100
66 0.0 23.8 35.8#



#8
Diethyl Ether
Concen: 0.669 ug/l
RT: 3.971 min Scan# 326
Delta R.T. 0.006 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

Tgt Ion: 74 Resp: 759
Ion Ratio Lower Upper
74 100
45 74.4 39.3 117.9





#11

Tert butyl alcohol

Concen: 10.367 ug/l

RT: 5.524 min Scan# 59

Delta R.T. -0.018 min

Lab File: VN075618.D

Acq: 07 Dec 2022 19:55

Instrument :

MSVOA_N

ClientSampleId :

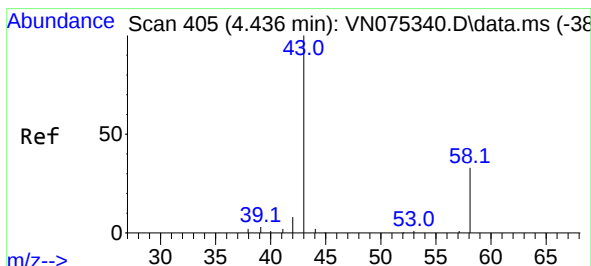
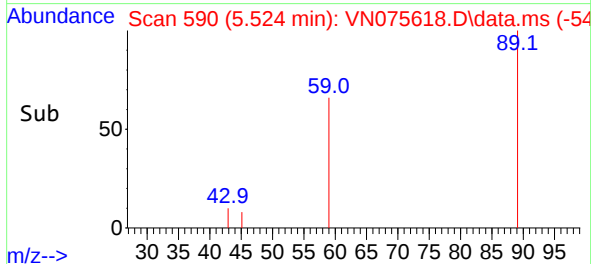
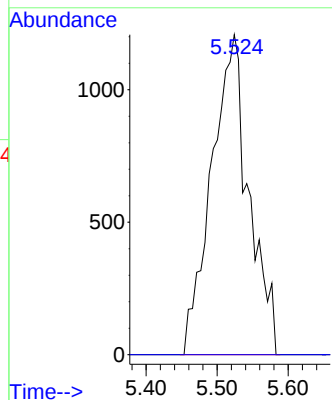
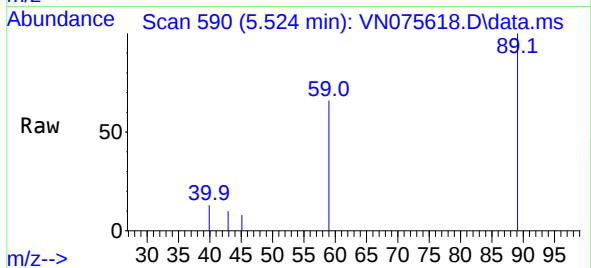
2913

Tgt Ion: 59 Resp: 4417

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#16

Acetone

Concen: 33.610 ug/l

RT: 4.442 min Scan# 406

Delta R.T. 0.006 min

Lab File: VN075618.D

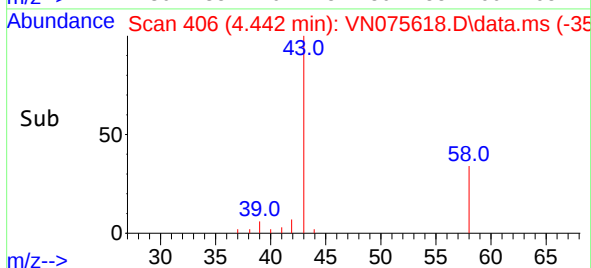
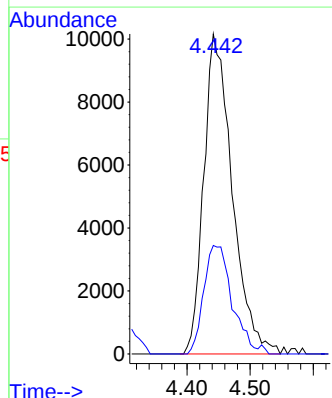
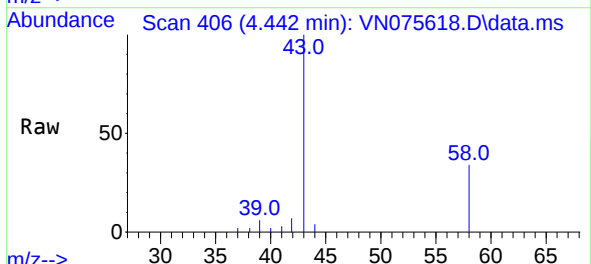
Acq: 07 Dec 2022 19:55

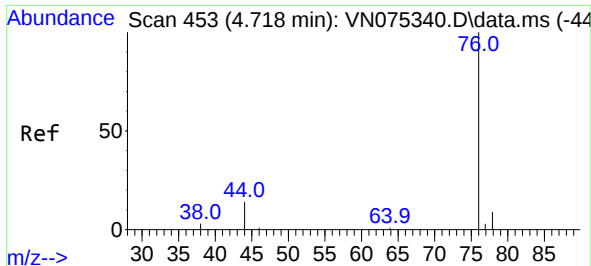
Tgt Ion: 43 Resp: 31819

Ion Ratio Lower Upper

43 100

58 33.9 25.5 38.3

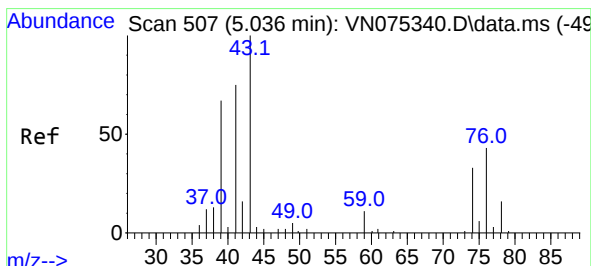
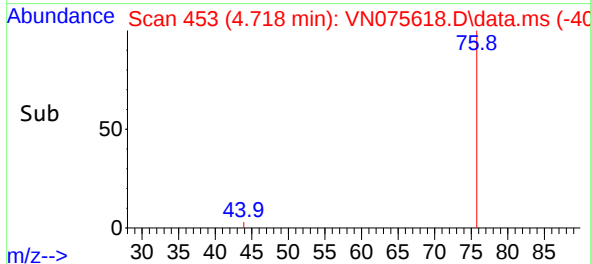
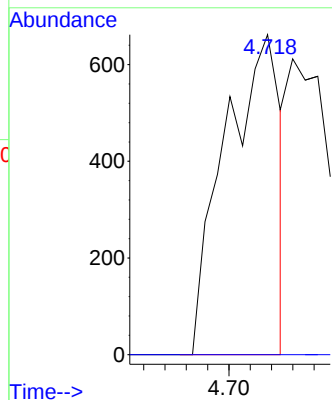
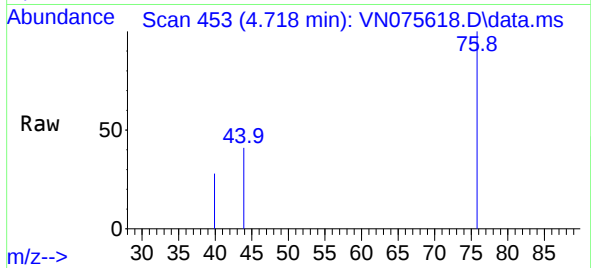




#17
Carbon Disulfide
Concen: 0.262 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

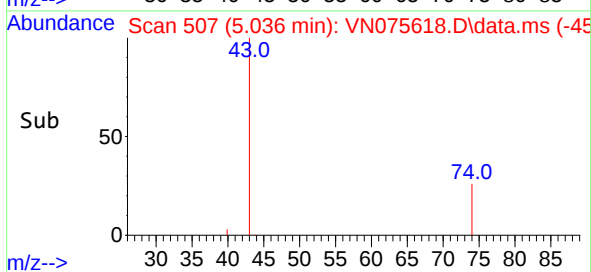
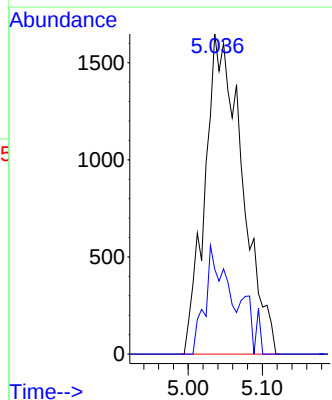
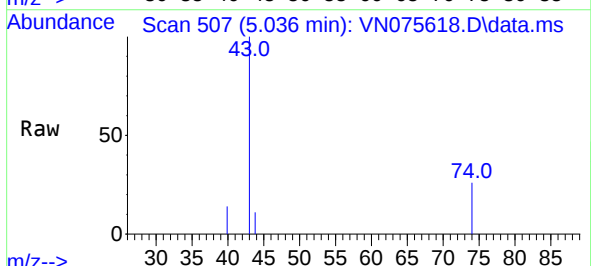
Instrument :
MSVOA_N
ClientSampleId :
2913

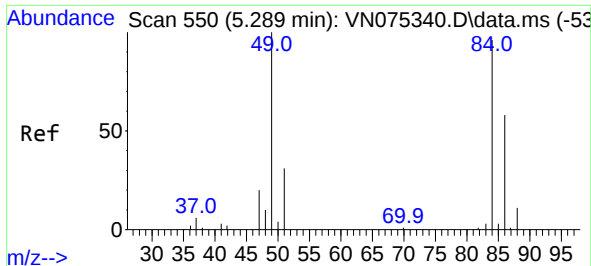
Tgt Ion: 76 Resp: 1190
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#18
Methyl Acetate
Concen: 1.146 ug/l
RT: 5.036 min Scan# 507
Delta R.T. -0.000 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

Tgt Ion: 43 Resp: 5756
Ion Ratio Lower Upper
43 100
74 19.9 22.0 33.0#

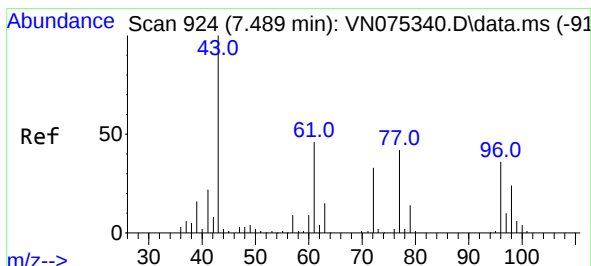
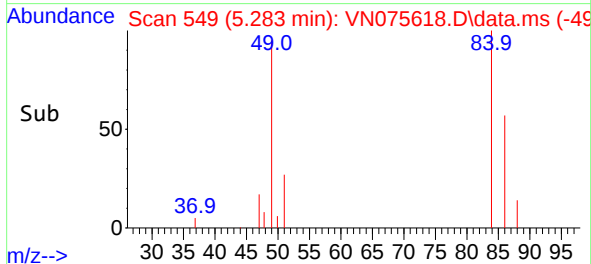
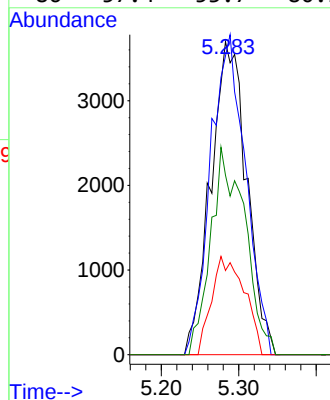
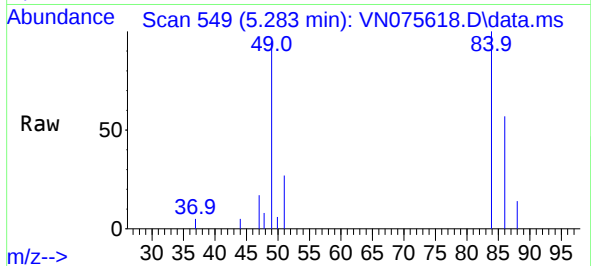




#20
Methylene Chloride
Concen: 5.048 ug/l
RT: 5.283 min Scan# 54
Delta R.T. -0.006 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

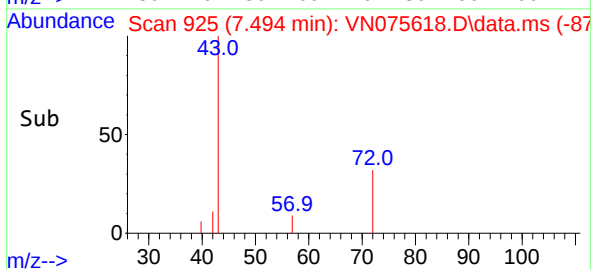
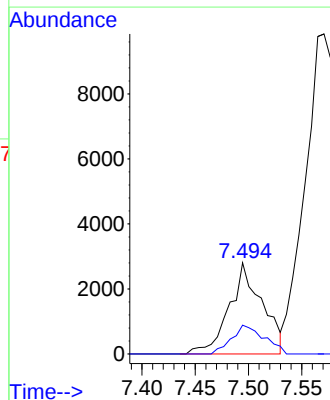
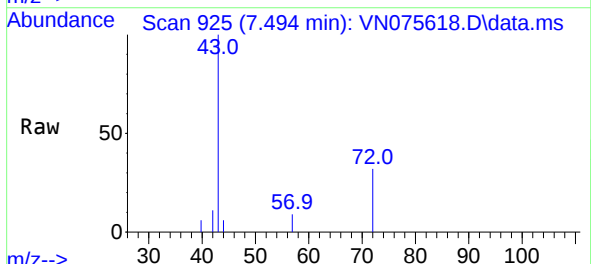
Instrument :
MSVOA_N
ClientSampleId :
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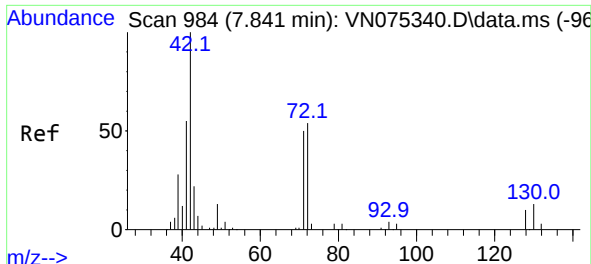
Tgt Ion:	84	Resp:	11898
Ion	Ratio	Lower	Upper
84	100		
49	95.5	94.9	142.3
51	26.9	26.8	40.2
86	57.4	53.7	80.5



#25
2-Butanone
Concen: 4.572 ug/l
RT: 7.494 min Scan# 925
Delta R.T. 0.005 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

Tgt Ion:	43	Resp:	6043
Ion	Ratio	Lower	Upper
43	100		
72	31.7	25.5	38.3

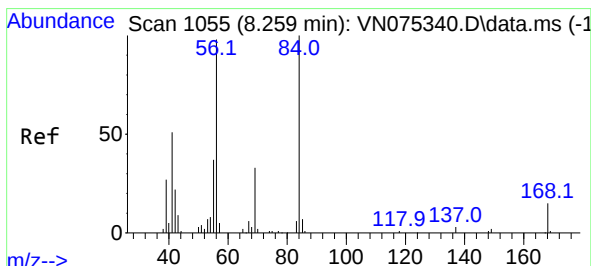
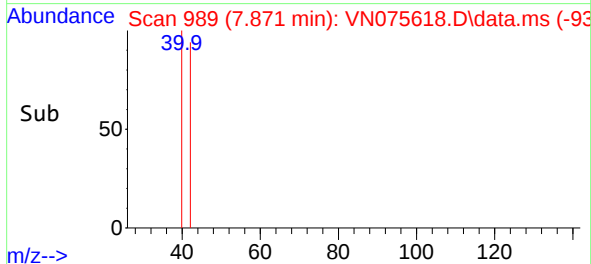
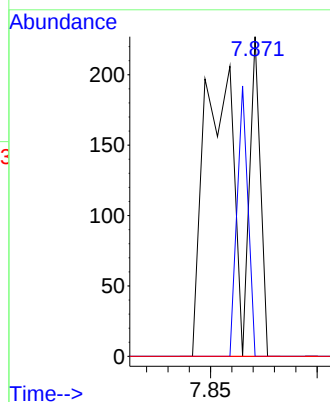
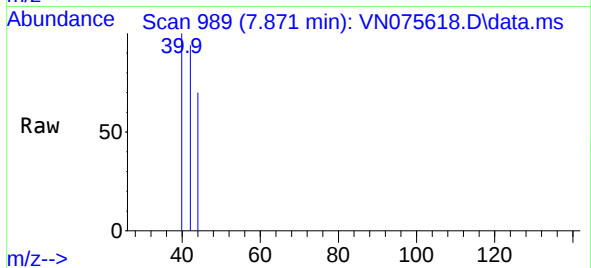




#29
Tetrahydrofuran
Concen: 0.345 ug/l
RT: 7.871 min Scan# 91
Delta R.T. 0.030 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

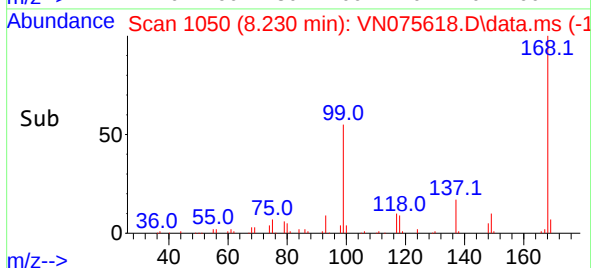
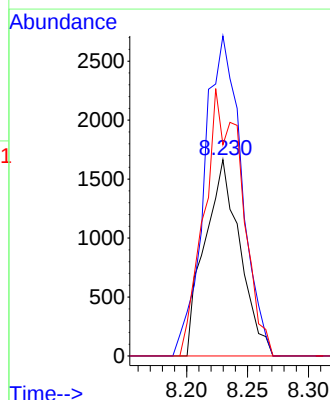
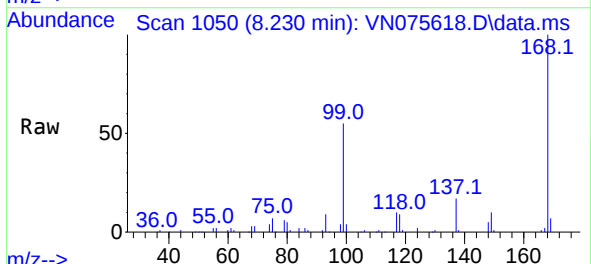
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MSVOA_N
ClientSampleId :
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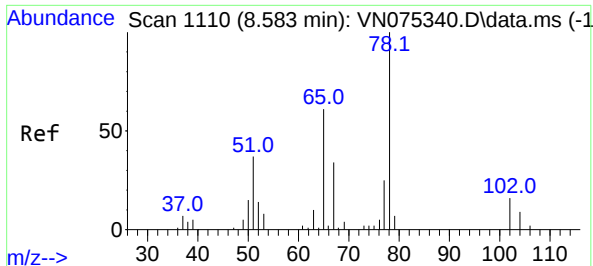
Tgt Ion: 42 Resp: 277
Ion Ratio Lower Upper
42 100
72 24.5 43.0 64.6#
71 0.0 39.9 59.9#



#31
Cyclohexane
Concen: 1.037 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.029 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

Tgt Ion: 56 Resp: 3343
Ion Ratio Lower Upper
56 100
69 163.0 25.2 37.8#
84 107.6 77.8 116.8

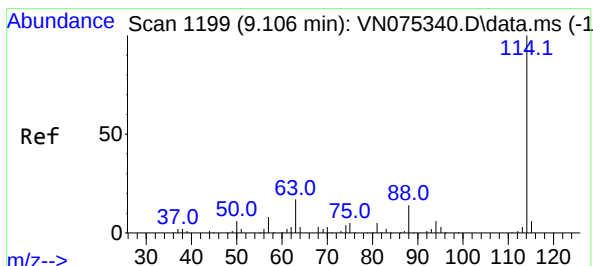
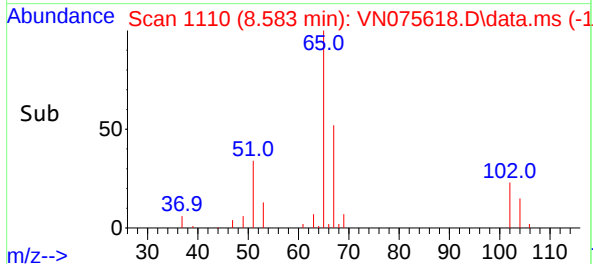
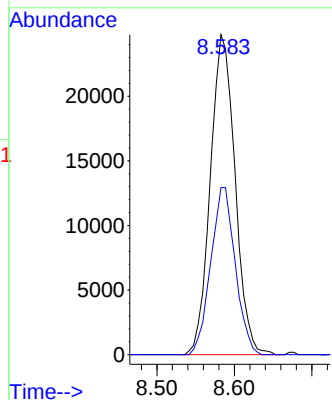
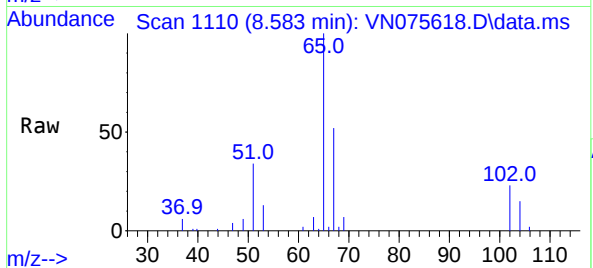




#33
1,2-Dichloroethane-d4
Concen: 54.106 ug/l
RT: 8.583 min Scan# 1110
Delta R.T. -0.000 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

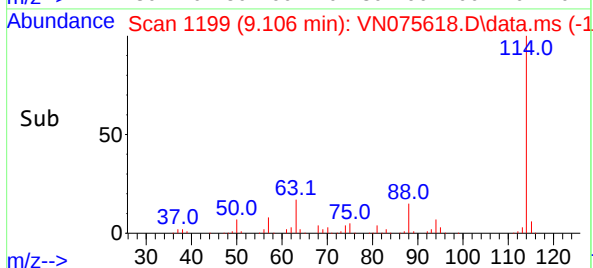
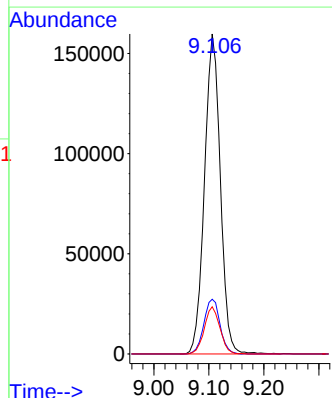
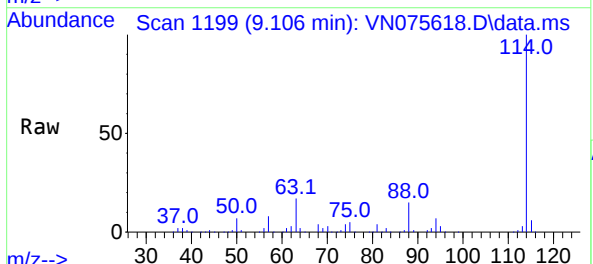
Instrument :
MSVOA_N
ClientSampleId :
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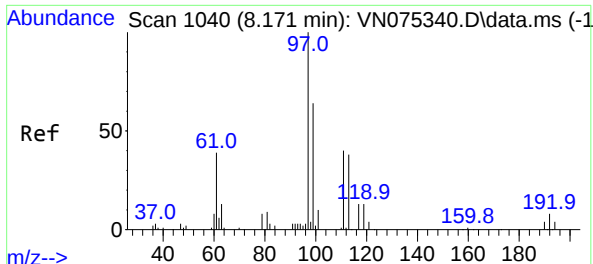
Tgt Ion: 65 Resp: 54915
Ion Ratio Lower Upper
65 100
67 51.8 0.0 102.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1199
Delta R.T. 0.000 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

Tgt Ion:114 Resp: 319629
Ion Ratio Lower Upper
114 100
63 17.1 0.0 39.6
88 14.7 0.0 29.0

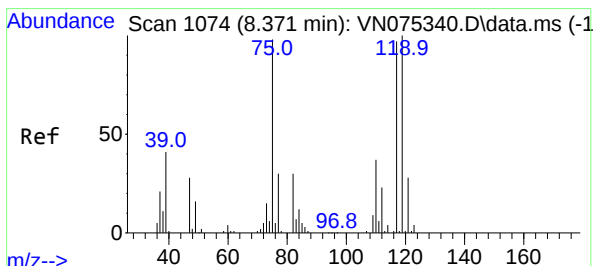
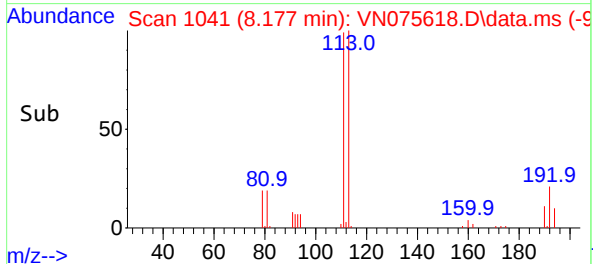
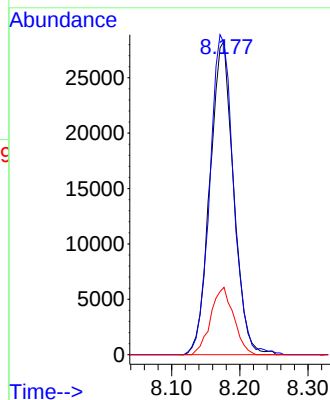
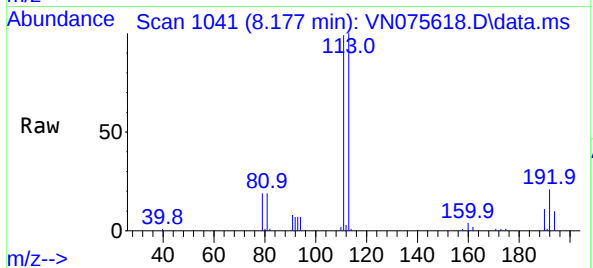




#35
Dibromofluoromethane
Concen: 54.349 ug/l
RT: 8.177 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

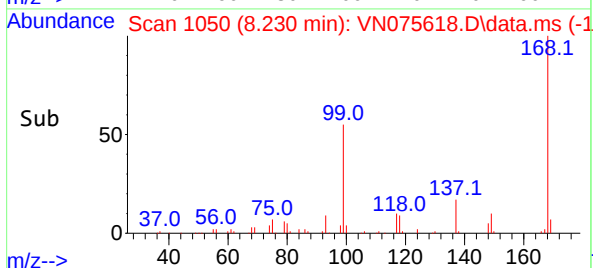
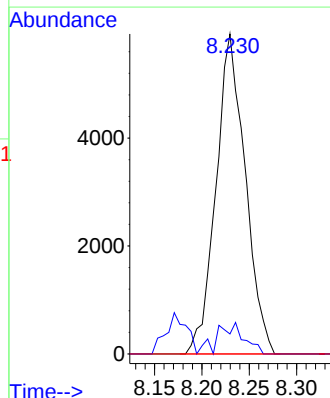
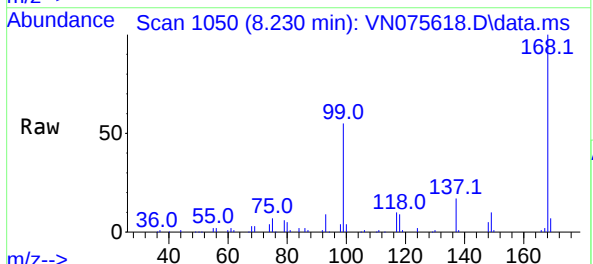
Instrument :
MSVOA_N
ClientSampleId :
2913

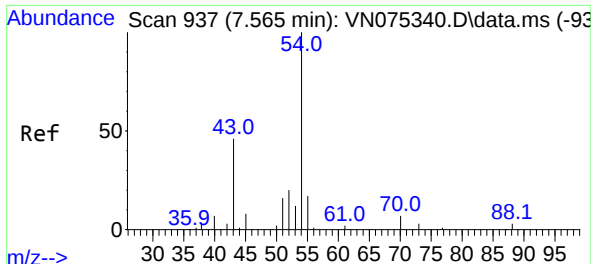
Tgt Ion:113 Resp: 68241
Ion Ratio Lower Upper
113 100
111 102.5 80.5 120.7
192 20.9 13.2 19.8#



#36
1,1-Dichloropropene
Concen: 4.656 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.141 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

Tgt Ion: 75 Resp: 12750
Ion Ratio Lower Upper
75 100
110 8.5 17.8 53.3#
77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 10.367 ug/l

RT: 7.571 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN075618.D

Acq: 07 Dec 2022 19:55

Instrument :

MSVOA_N

ClientSampleId :

2913

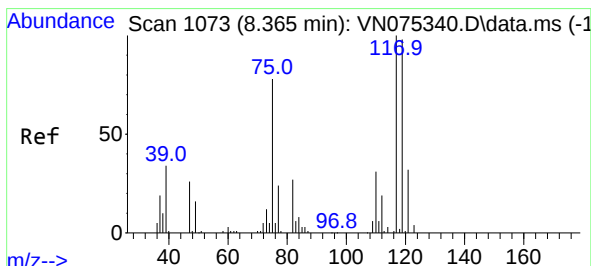
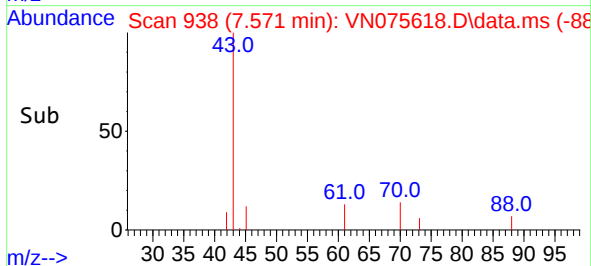
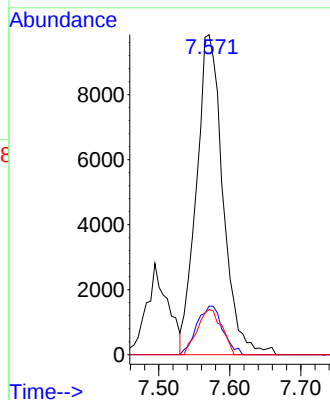
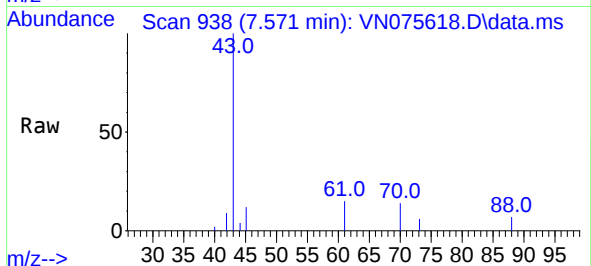
Tgt Ion: 43 Resp: 25561

Ion Ratio Lower Upper

43 100

61 14.9 12.2 18.4

70 13.0 9.4 14.2



#38

Carbon Tetrachloride

Concen: 6.008 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.135 min

Lab File: VN075618.D

Acq: 07 Dec 2022 19:55

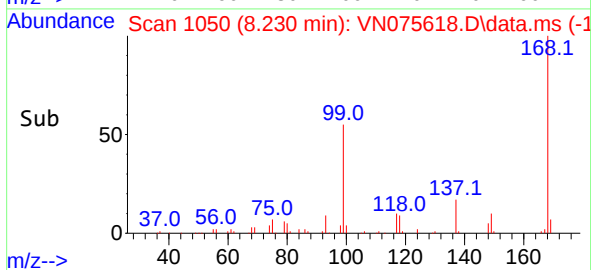
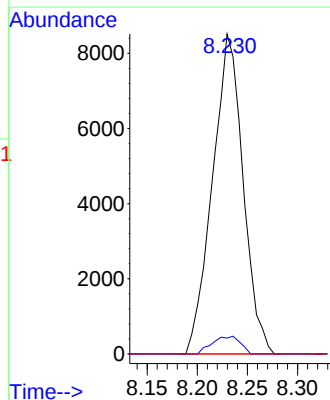
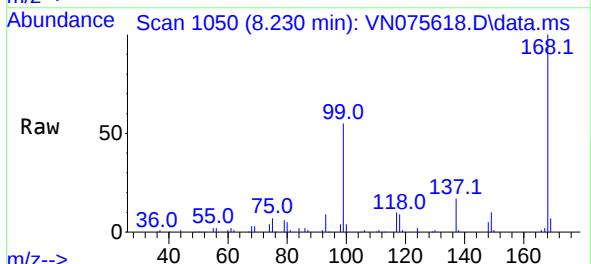
Tgt Ion: 117 Resp: 18073

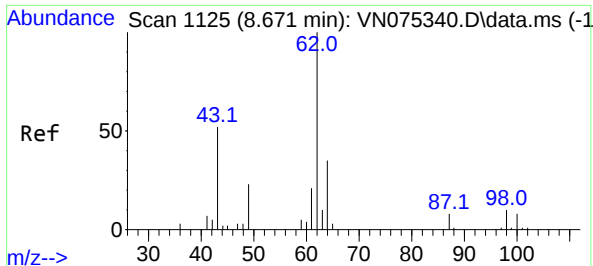
Ion Ratio Lower Upper

117 100

119 5.0 76.7 115.1#

121 0.0 23.9 35.9#

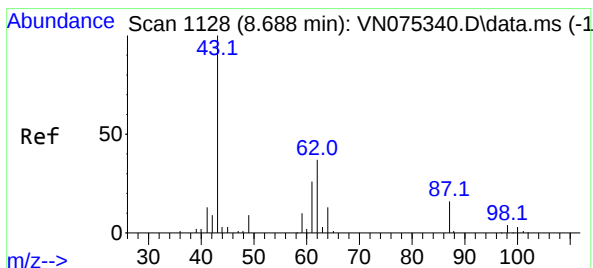
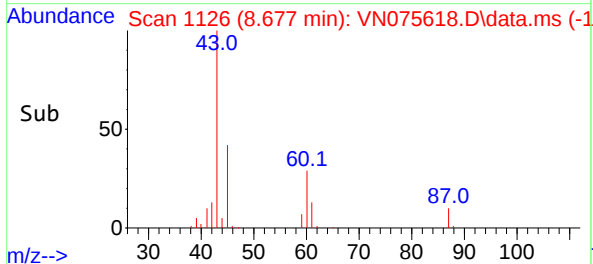
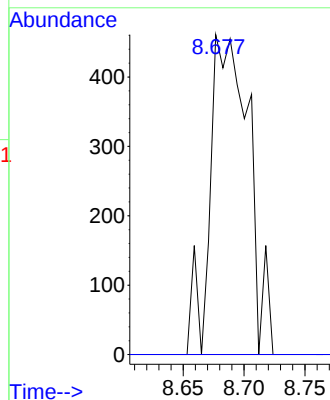
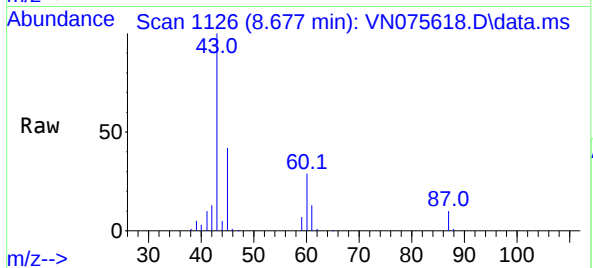




#42
1,2-Dichloroethane
Concen: 0.366 ug/l
RT: 8.677 min Scan# 1125
Delta R.T. 0.006 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

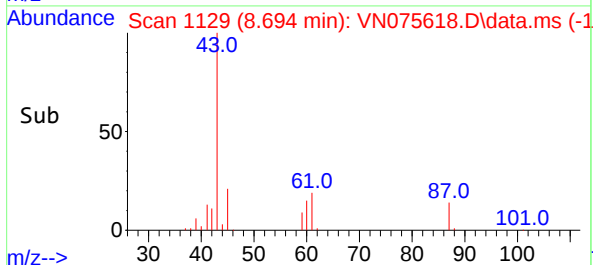
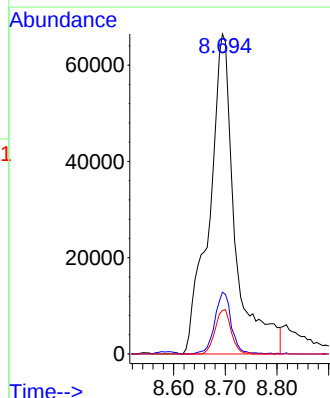
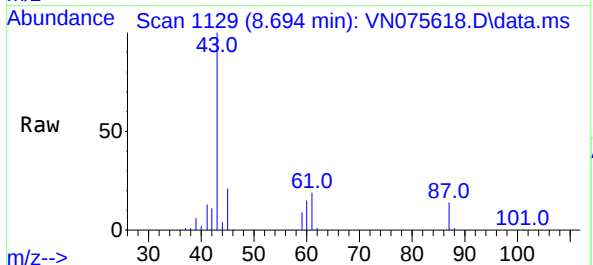
Instrument :
MSVOA_N
ClientSampleId :
2913

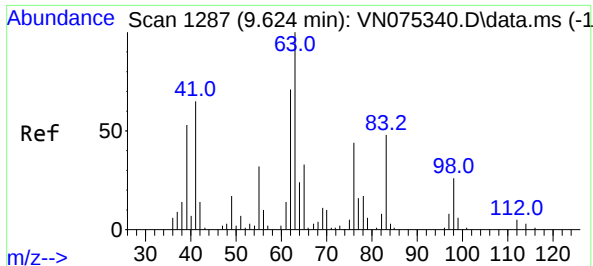
Tgt Ion: 62 Resp: 1027
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.2



#43
Isopropyl Acetate
Concen: 58.446 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. 0.006 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

Tgt Ion: 43 Resp: 231300
Ion Ratio Lower Upper
43 100
61 12.3 22.4 33.6#
87 8.5 12.5 18.7#

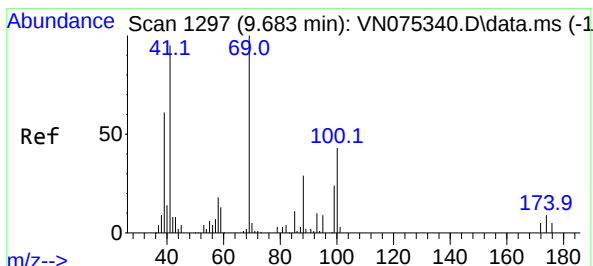
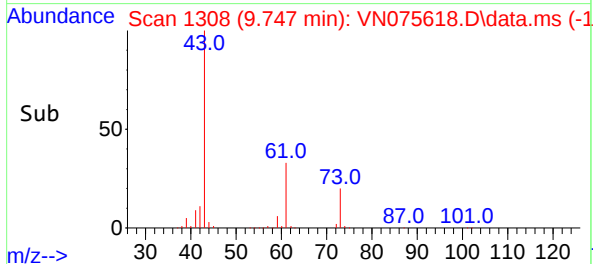
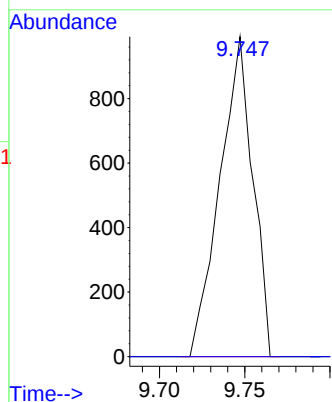
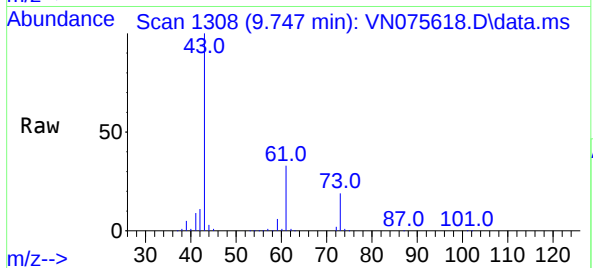




#45
1,2-Dichloropropane
Concen: 0.666 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.123 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

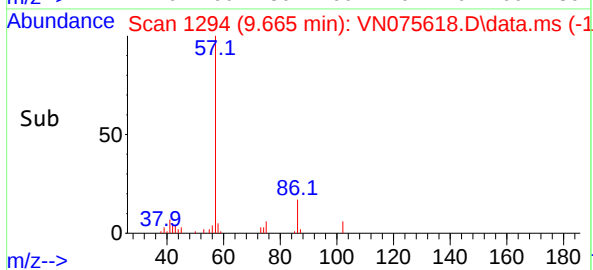
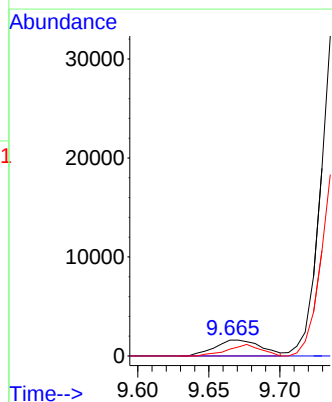
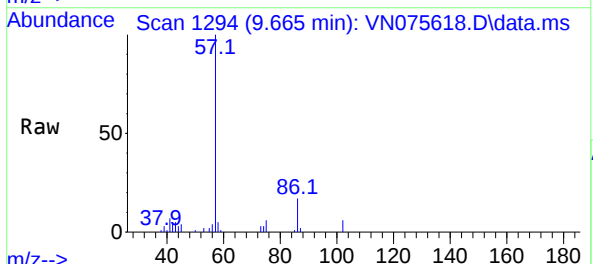
Instrument :
MSVOA_N
ClientSampleId :
2913

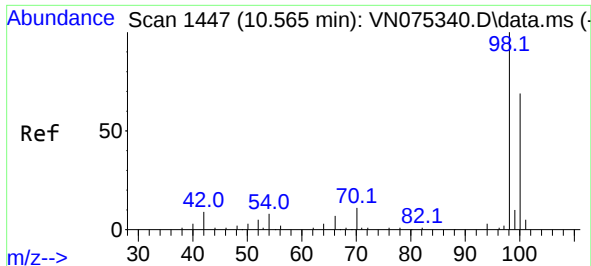
Tgt Ion: 63 Resp: 1330
Ion Ratio Lower Upper
63 100
65 0.0 26.1 39.1#



#48
Methyl methacrylate
Concen: 1.989 ug/l
RT: 9.665 min Scan# 1294
Delta R.T. -0.018 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

Tgt Ion: 41 Resp: 3640
Ion Ratio Lower Upper
41 100
69 0.0 80.2 120.2#
39 51.4 56.2 84.2#





#50

Toluene-d8

Concen: 51.394 ug/l

RT: 10.571 min Scan# 1447

Delta R.T. 0.006 min

Lab File: VN075618.D

Acq: 07 Dec 2022 19:55

Instrument :

MSVOA_N

ClientSampleId :

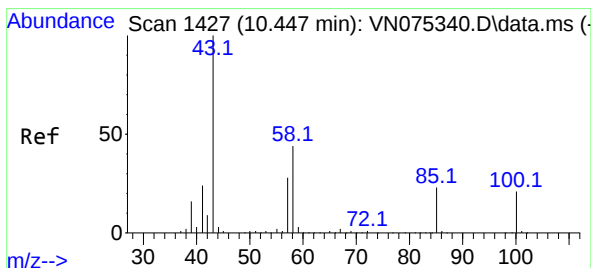
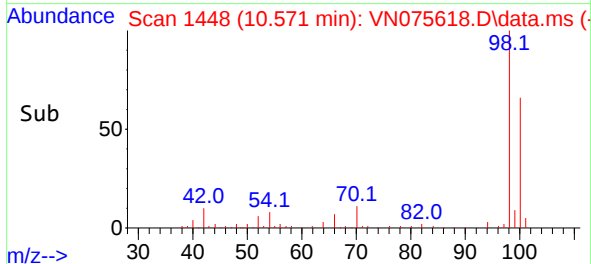
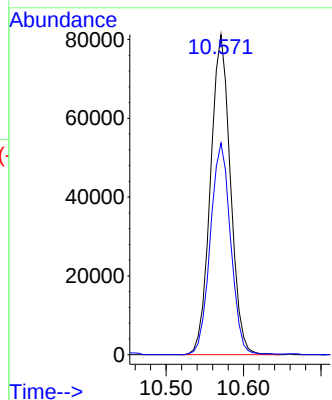
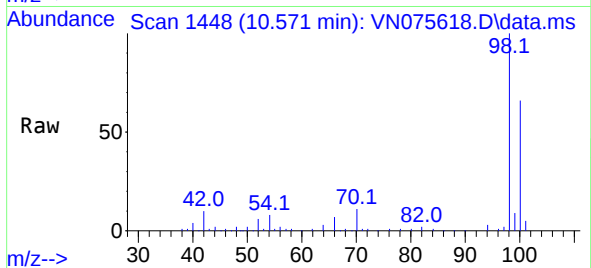
2913

Tgt Ion: 98 Resp: 145341

Ion Ratio Lower Upper

98 100

100 67.3 53.0 79.6



#51

4-Methyl-2-Pentanone

Concen: 3.586 ug/l

RT: 10.459 min Scan# 1429

Delta R.T. 0.012 min

Lab File: VN075618.D

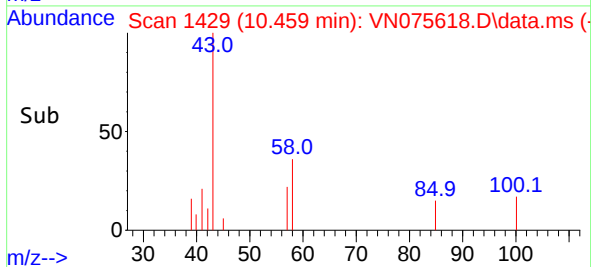
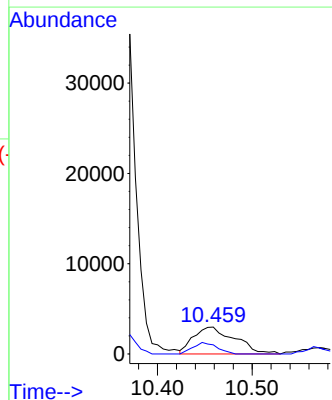
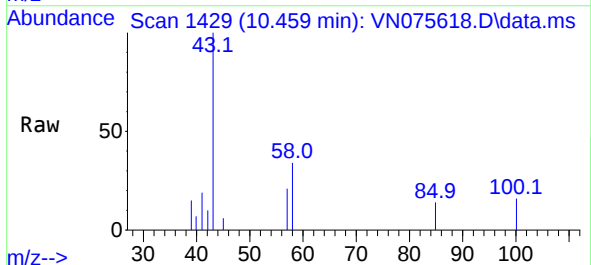
Acq: 07 Dec 2022 19:55

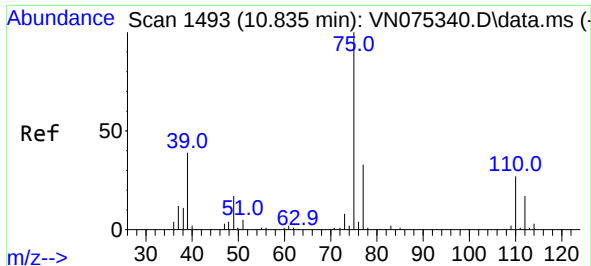
Tgt Ion: 43 Resp: 9039

Ion Ratio Lower Upper

43 100

58 24.8 33.6 50.4#

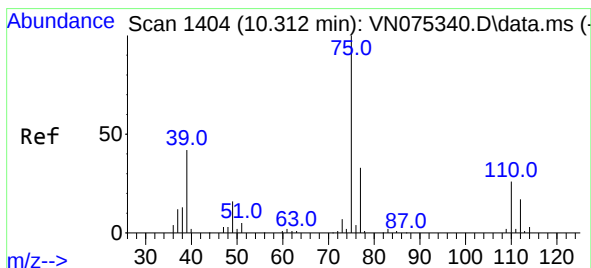
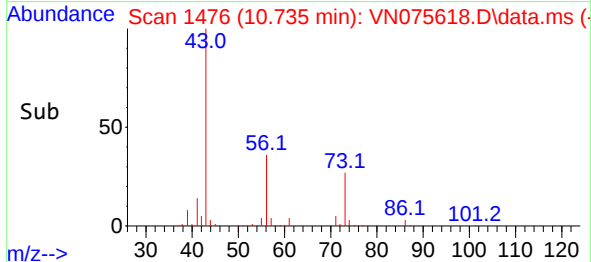
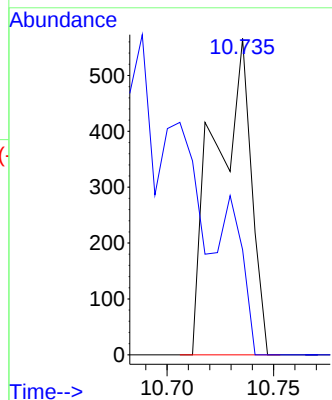
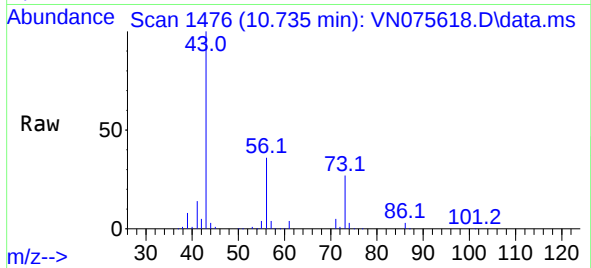




#53
t-1,3-Dichloropropene
Concen: 0.228 ug/l
RT: 10.735 min Scan# 1413
Delta R.T. -0.100 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

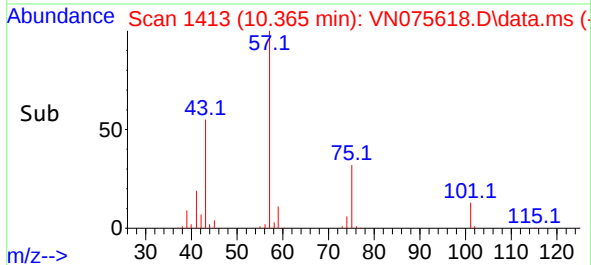
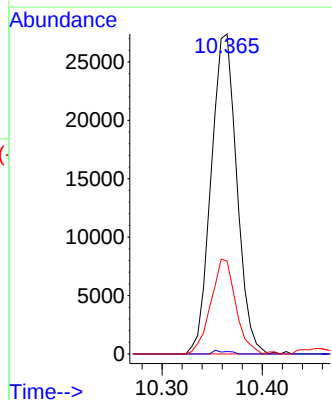
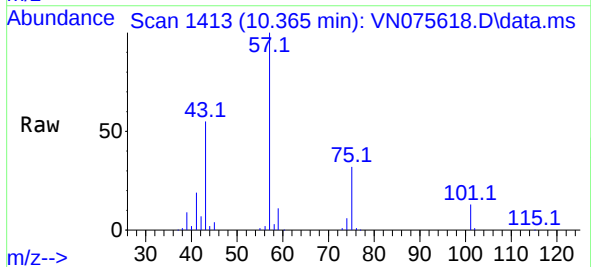
Instrument :
MSVOA_N
ClientSampleId :
2913

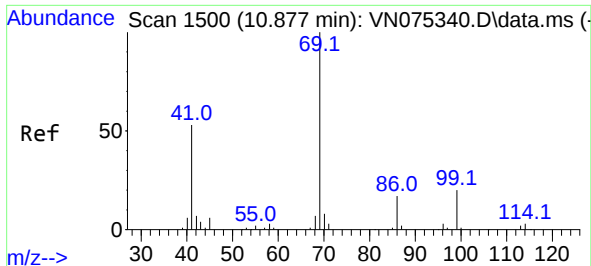
Tgt Ion: 75 Resp: 671
Ion Ratio Lower Upper
75 100
77 33.2 25.4 38.2



#54
cis-1,3-Dichloropropene
Concen: 15.290 ug/l
RT: 10.365 min Scan# 1413
Delta R.T. 0.053 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

Tgt Ion: 75 Resp: 48786
Ion Ratio Lower Upper
75 100
77 0.7 23.7 35.5#
39 29.1 35.8 53.6#

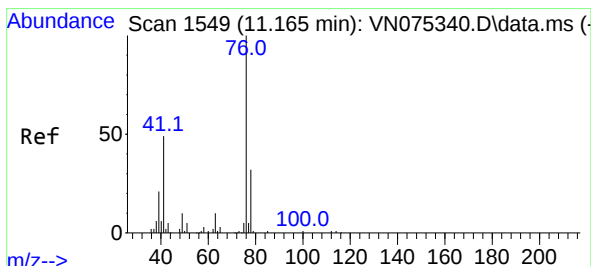
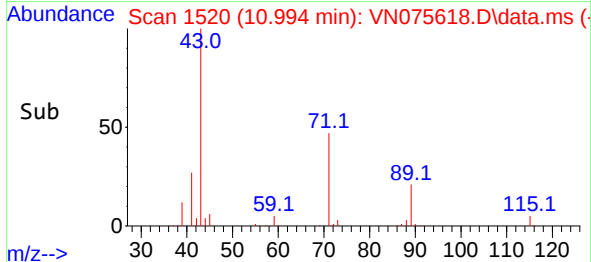
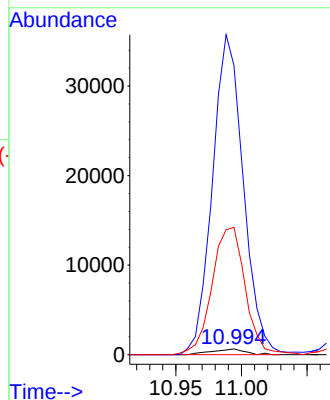
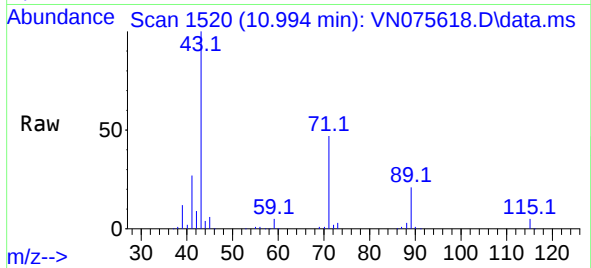




#56
Ethyl methacrylate
Concen: 0.378 ug/l
RT: 10.994 min Scan# 11
Delta R.T. 0.117 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

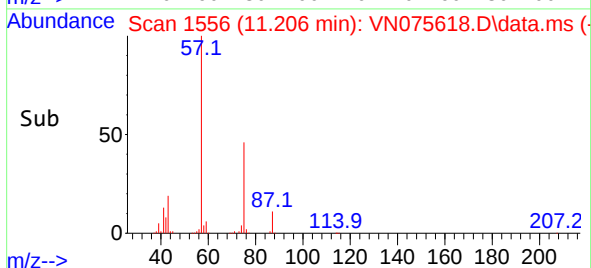
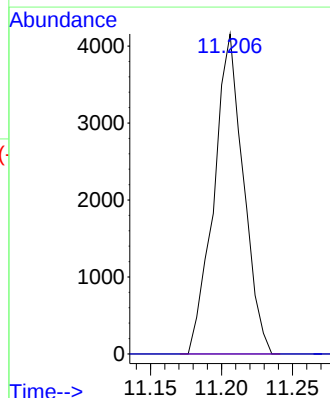
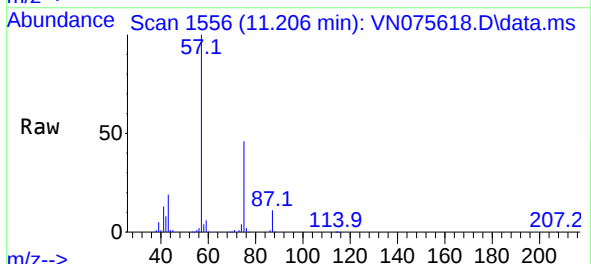
Instrument :
MSVOA_N
ClientSampleId :
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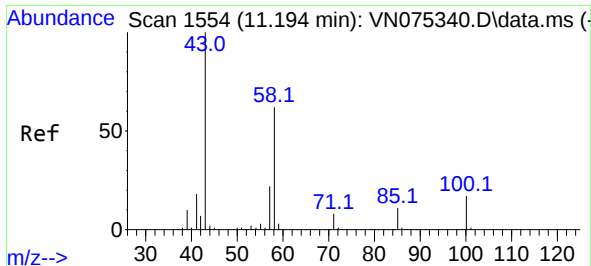
Tgt Ion: 69 Resp: 1122
Ion Ratio Lower Upper
69 100
41 5232.4 45.6 68.4#
39 2230.4 28.5 42.7#



#57
1,3-Dichloropropane
Concen: 1.671 ug/l
RT: 11.206 min Scan# 1556
Delta R.T. 0.041 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

Tgt Ion: 76 Resp: 5996
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

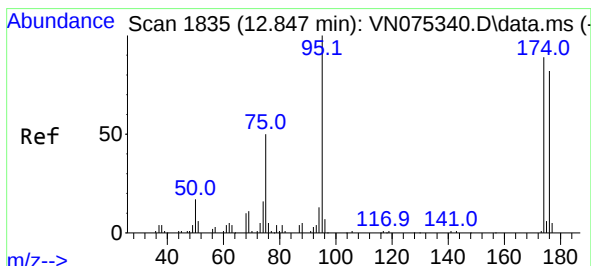
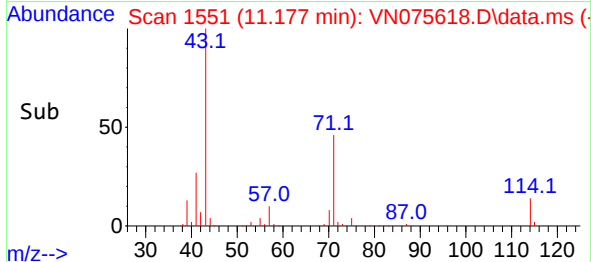
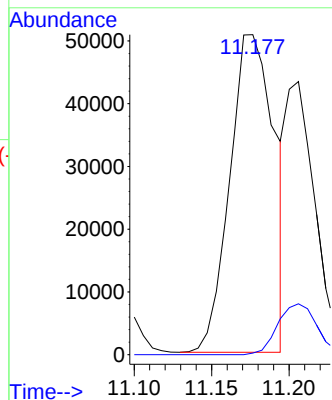
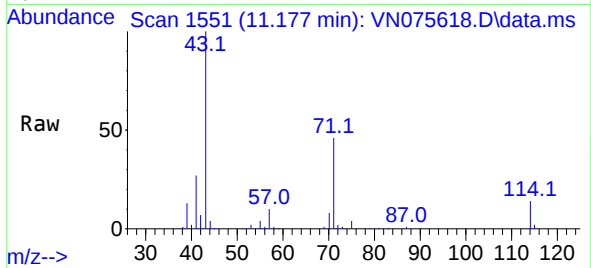




#59
2-Hexanone
Concen: 53.495 ug/l
RT: 11.177 min Scan# 111
Delta R.T. -0.017 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

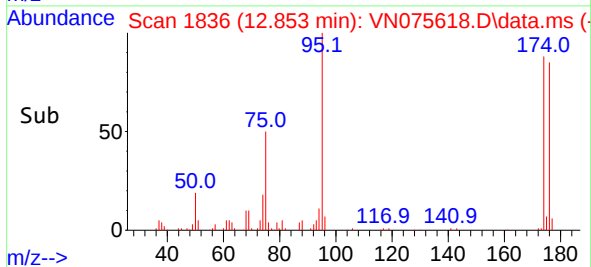
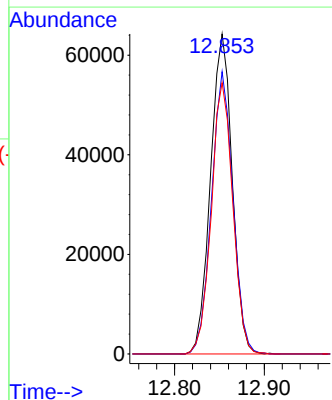
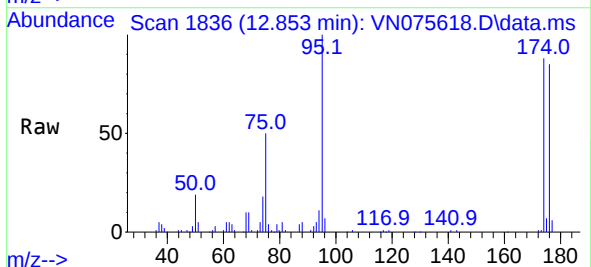
Instrument :
MSVOA_N
ClientSampleId :
2913

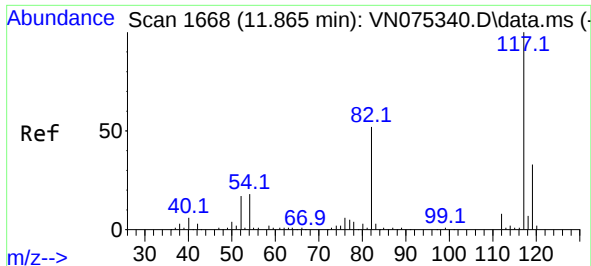
Tgt Ion: 43 Resp: 101253
Ion Ratio Lower Upper
43 100
58 0.0 29.6 88.8#



#62
4-Bromofluorobenzene
Concen: 51.688 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

Tgt Ion: 95 Resp: 107892
Ion Ratio Lower Upper
95 100
174 87.2 0.0 147.4
176 83.8 0.0 142.2

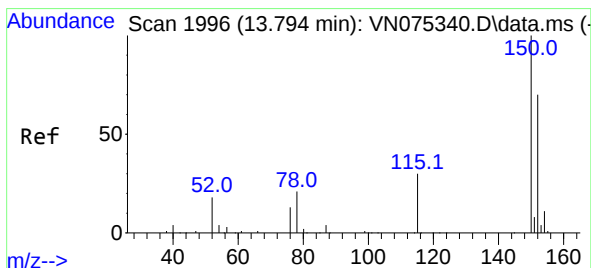
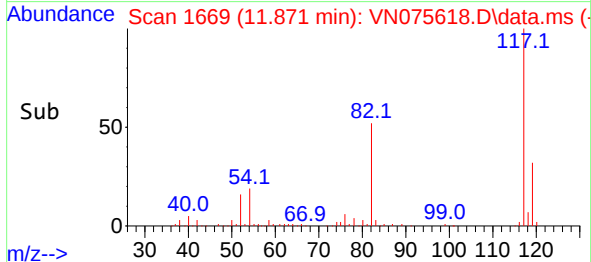
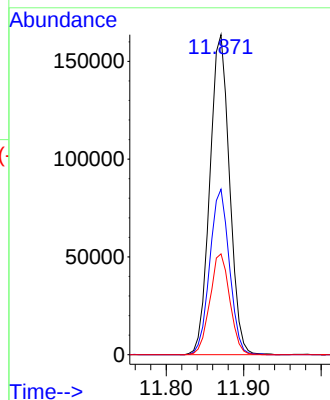
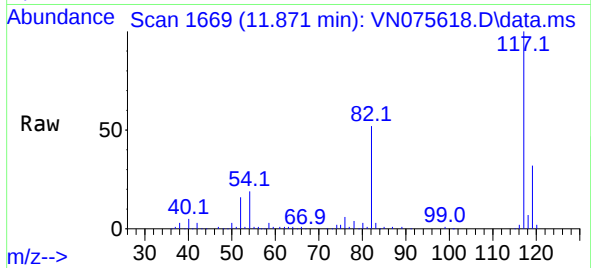




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

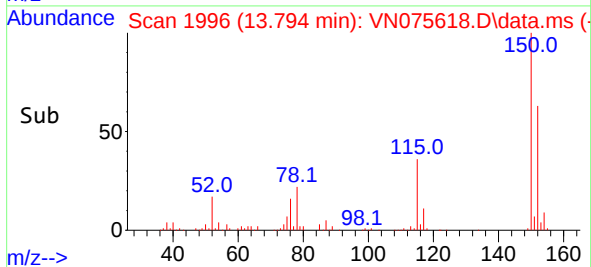
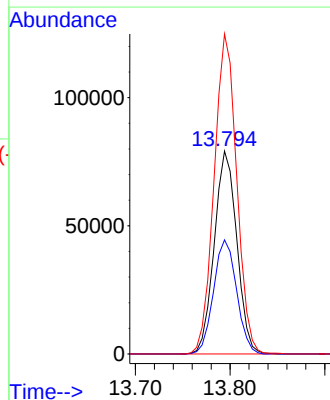
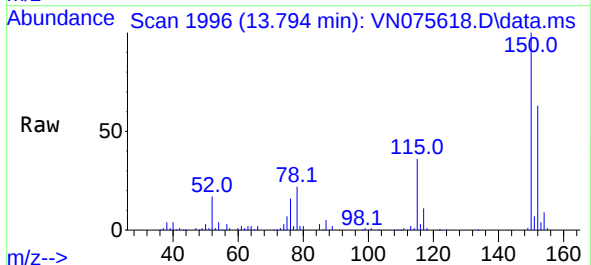
Instrument :
MSVOA_N
ClientSampleId :
2913

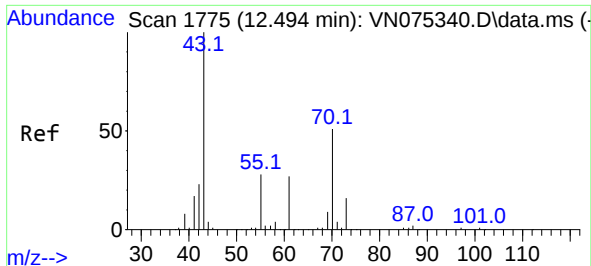
Tgt Ion:117 Resp: 288669
Ion Ratio Lower Upper
117 100
82 51.7 43.1 64.7
119 31.5 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

Tgt Ion:152 Resp: 130875
Ion Ratio Lower Upper
152 100
115 57.5 30.2 90.6
150 158.2 0.0 348.4

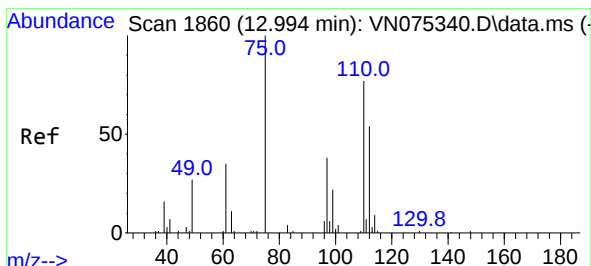
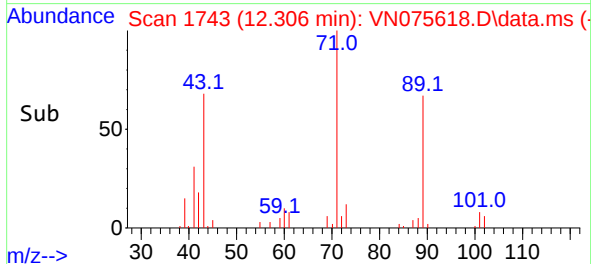
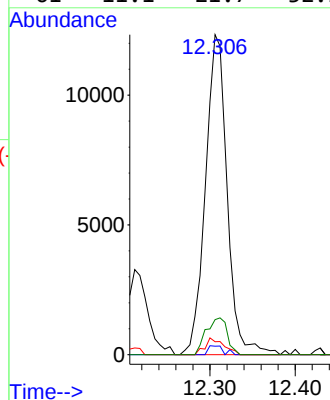
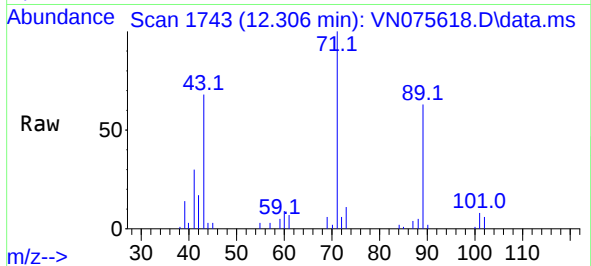




#74
N-amy1 acetate
Concen: 7.445 ug/l
RT: 12.306 min Scan# 11
Delta R.T. -0.188 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

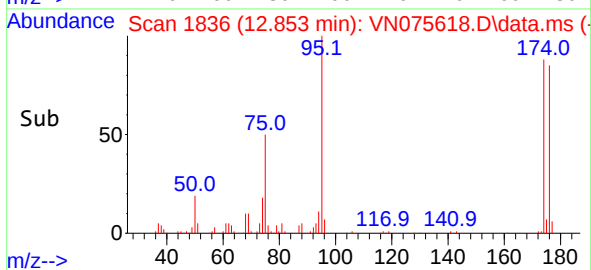
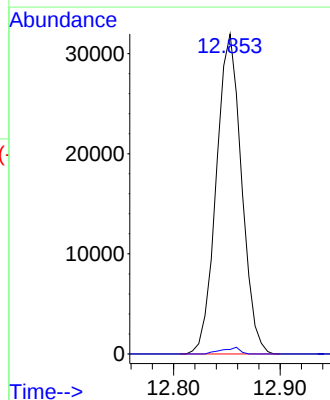
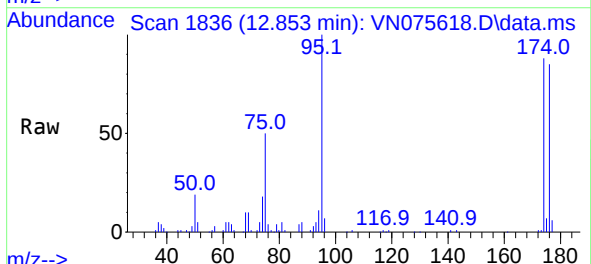
Instrument :
MSVOA_N
ClientSampleId :
2913

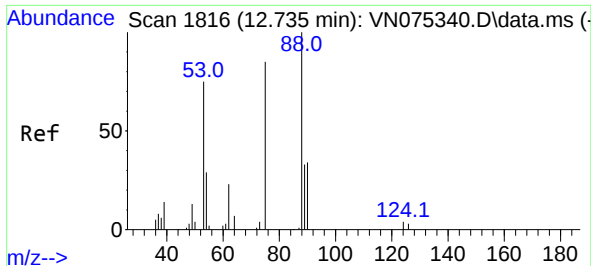
Tgt Ion:	43	Resp:	21885
Ion	Ratio	Lower	Upper
43	100		
70	1.9	39.8	59.8#
55	4.5	19.9	29.9#
61	11.1	21.7	32.5#



#76
1,2,3-Trichloropropane
Concen: 21.241 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN075618.D
Acq: 07 Dec 2022 19:55

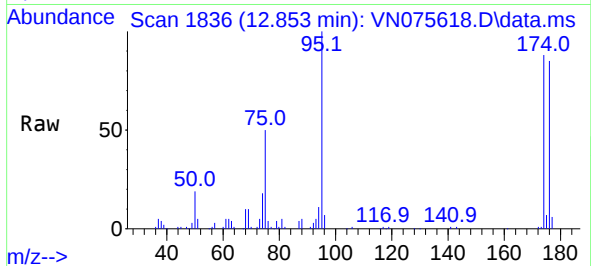
Tgt Ion:	75	Resp:	52562
Ion	Ratio	Lower	Upper
75	100		
77	1.5	75.6	226.8#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.849 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN075618.D
 Acq: 07 Dec 2022 19:55

Instrument :
 MSVOA_N
 ClientSampleId :
 2913



Tgt Ion: 75 Resp: 52562
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.5 117.7#
 89 0.0 37.7 56.5#

