

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120722\
 Data File : VN075621.D
 Acq On : 07 Dec 2022 21:08
 Operator : JC\MD
 Sample : N5897-17
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 2025

Quant Time: Dec 08 00:24:19 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)

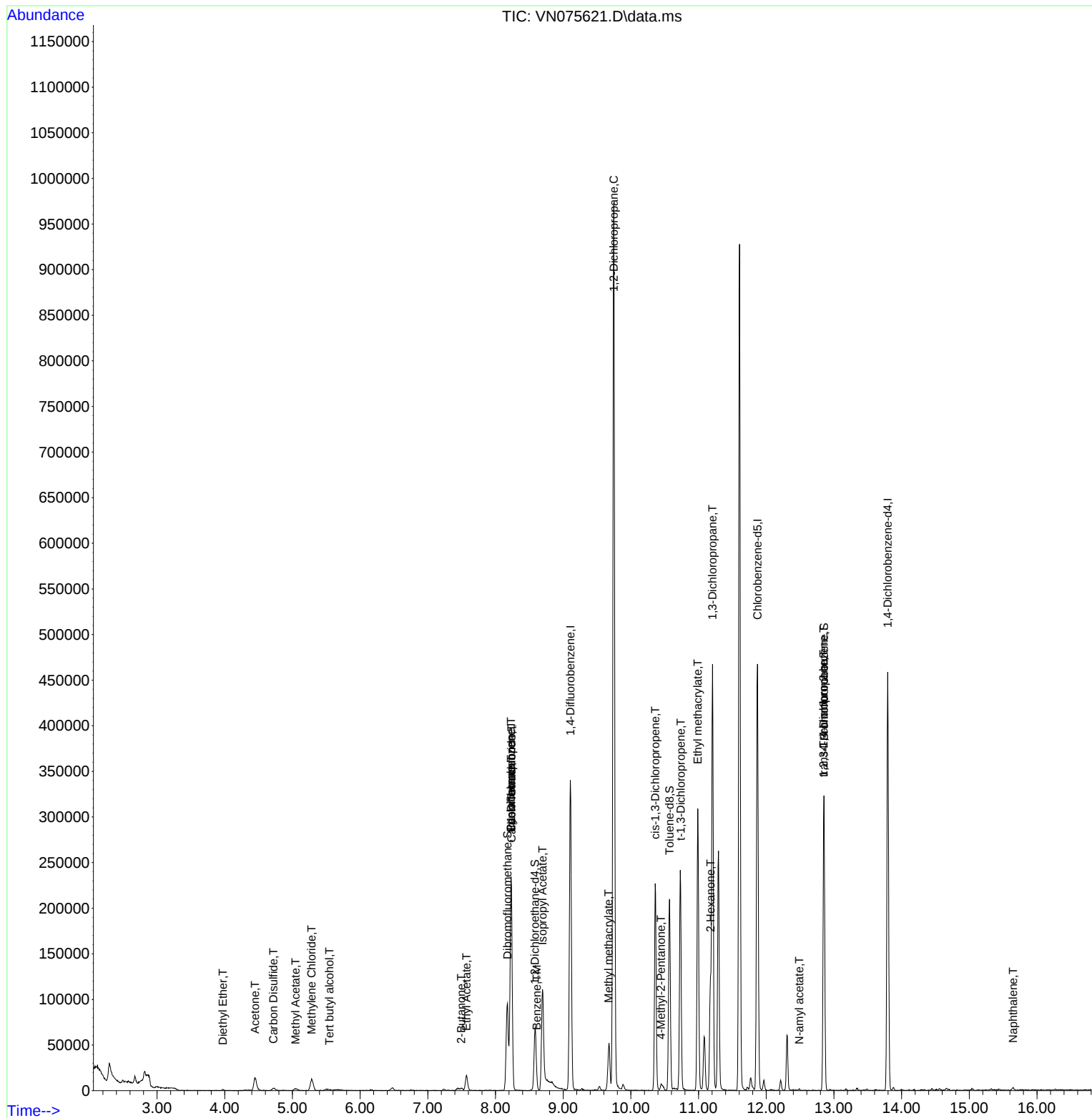
Internal Standards						
1) Pentafluorobenzene	8.230	168	185285	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	321019	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	289255	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	131399	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	55314	55.615	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.240%			
35) Dibromofluoromethane	8.177	113	69254	54.917	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.840%			
50) Toluene-d8	10.571	98	148684	52.348	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.700%			
62) 4-Bromofluorobenzene	12.853	95	108935	51.962	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 103.920%			
Target Compounds					Qvalue	
8) Diethyl Ether	3.971	74	669	0.601	ug/l	84
11) Tert butyl alcohol	5.547	59	401	0.960	ug/l #	72
16) Acetone	4.448	43	26257	28.303	ug/l	98
17) Carbon Disulfide	4.718	76	6036	1.354	ug/l #	74
18) Methyl Acetate	5.047	43	4407	0.605	ug/l	94
20) Methylene Chloride	5.283	84	10746	4.550	ug/l #	84
25) 2-Butanone	7.494	43	4485	3.463	ug/l #	83
31) Cyclohexane	8.230	56	3299	1.044	ug/l #	20
36) 1,1-Dichloropropene	8.230	75	13005	4.729	ug/l #	52
37) Ethyl Acetate	7.571	43	23656	9.553	ug/l	97
38) Carbon Tetrachloride	8.236	117	17589	5.822	ug/l #	17
40) Benzene	8.612	78	2029	0.241	ug/l #	86
43) Isopropyl Acetate	8.694	43	131896	33.184	ug/l #	87
45) 1,2-Dichloropropane	9.747	63	1425	0.710	ug/l #	42
48) Methyl methacrylate	9.671	41	2863	1.558	ug/l #	34
51) 4-Methyl-2-Pentanone	10.447	43	8416	3.324	ug/l #	69
53) t-1,3-Dichloropropene	10.735	75	624	0.211	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	45878	14.316	ug/l #	61
56) Ethyl methacrylate	10.988	69	1023	0.343	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	5606	1.556	ug/l #	42
59) 2-Hexanone	11.176	43	94767	49.852	ug/l #	21
74) N-amyl acetate	12.488	43	784	0.266	ug/l #	38
76) 1,2,3-Trichloropropane	12.847	75	54177	21.807	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	54177	64.521	ug/l #	10
95) Naphthalene	15.647	128	4236	0.600	ug/l #	91

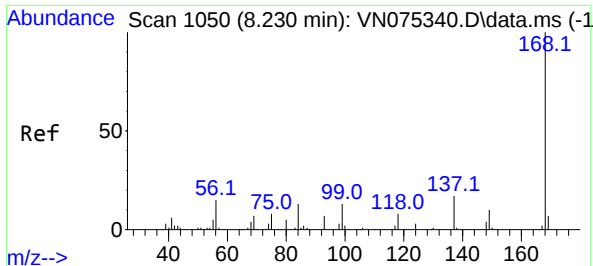
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 23 00:18:03 2022
Response via : Initial Calibration





#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN075621.D

Acq: 07 Dec 2022 21:08

Instrument :

MSVOA_N

ClientSampleId :

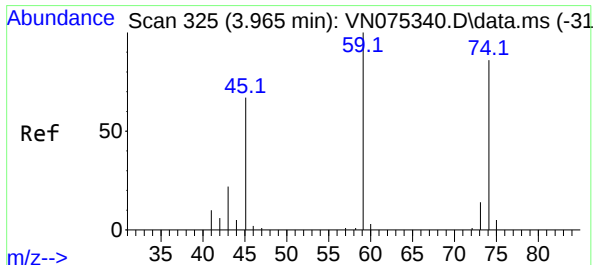
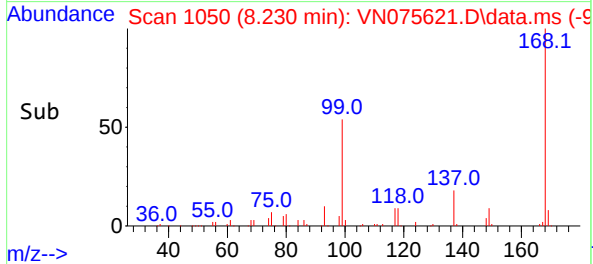
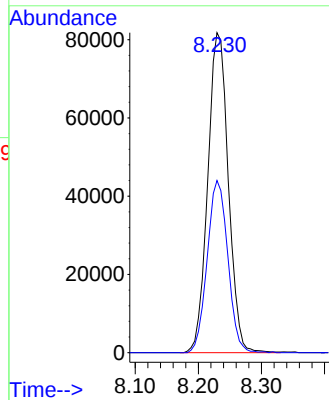
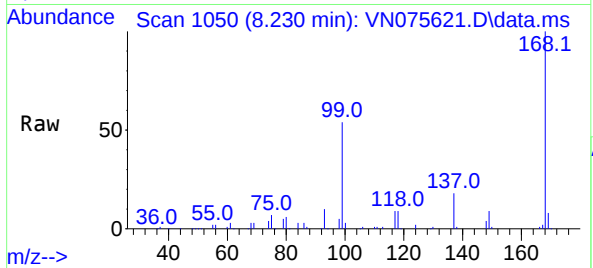
2025

Tgt Ion:168 Resp: 185285

Ion Ratio Lower Upper

168 100

99 53.8 51.6 77.4



#8

Diethyl Ether

Concen: 0.601 ug/l

RT: 3.971 min Scan# 326

Delta R.T. 0.006 min

Lab File: VN075621.D

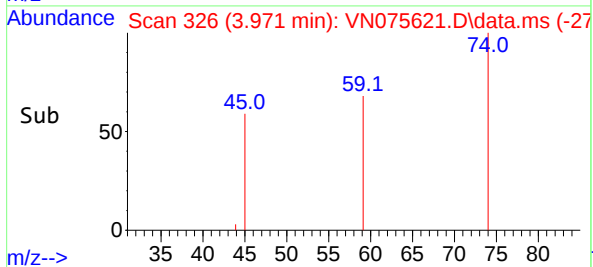
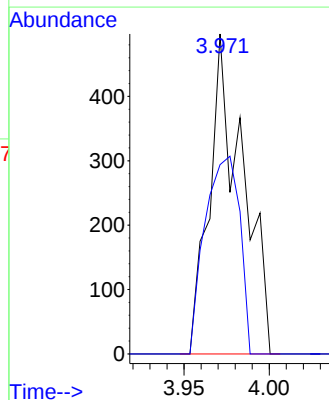
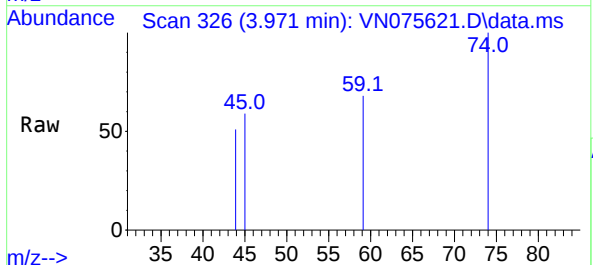
Acq: 07 Dec 2022 21:08

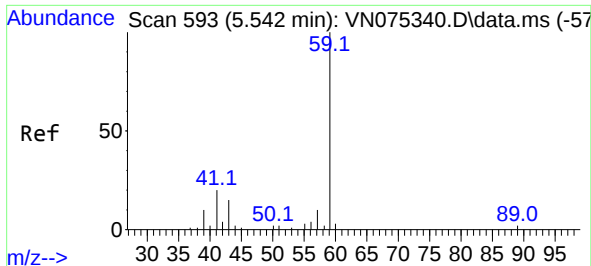
Tgt Ion: 74 Resp: 669

Ion Ratio Lower Upper

74 100

45 64.9 39.3 117.9

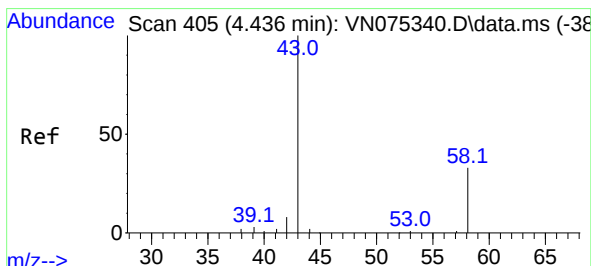
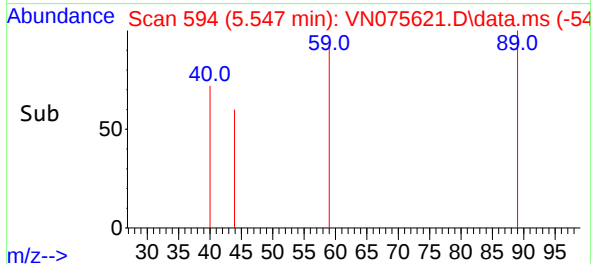
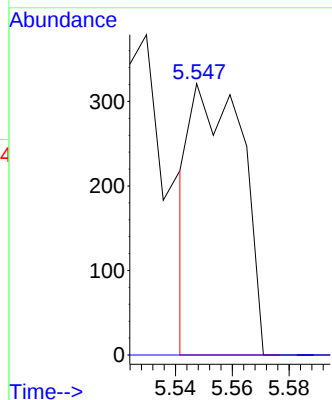
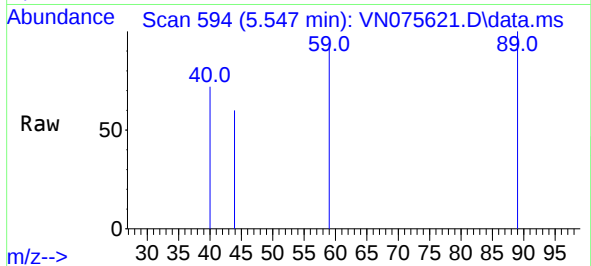




#11
Tert butyl alcohol
Concen: 0.960 ug/l
RT: 5.547 min Scan# 59
Delta R.T. 0.005 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

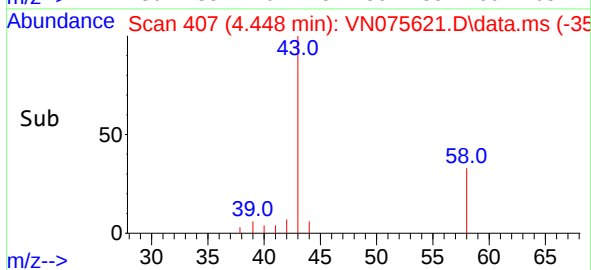
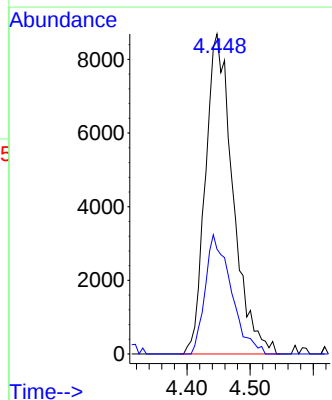
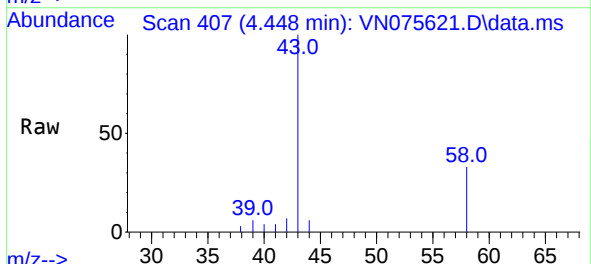
Instrument :
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2025

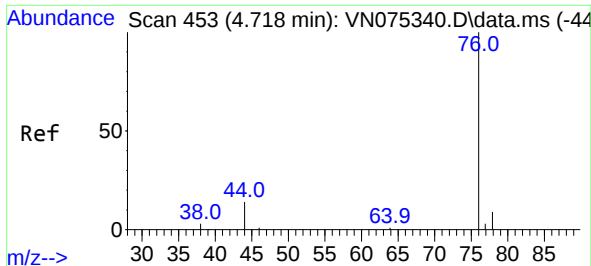
Tgt Ion: 59 Resp: 401
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#16
Acetone
Concen: 28.303 ug/l
RT: 4.448 min Scan# 407
Delta R.T. 0.012 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

Tgt Ion: 43 Resp: 26257
Ion Ratio Lower Upper
43 100
58 32.8 25.5 38.3

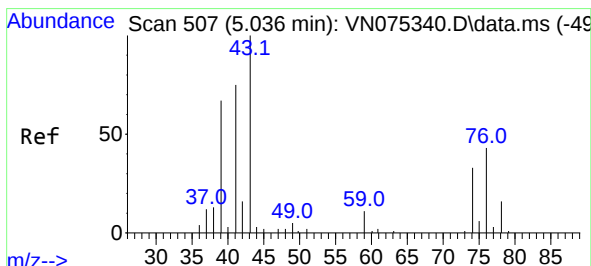
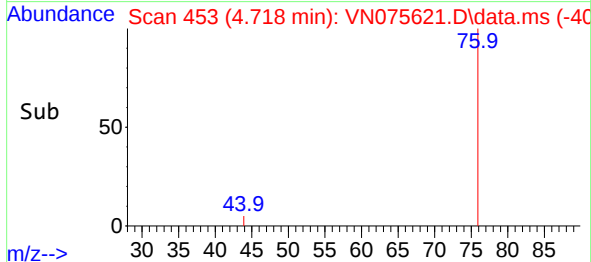
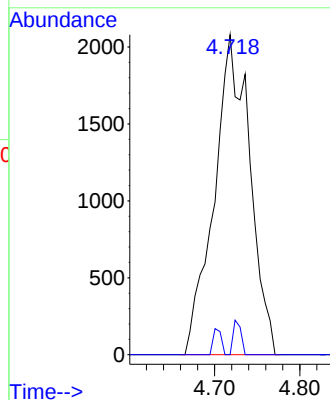
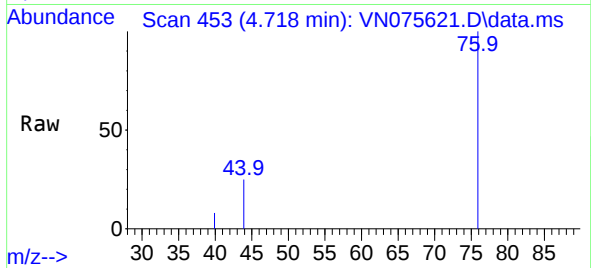




#17
Carbon Disulfide
Concen: 1.354 ug/l
RT: 4.718 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

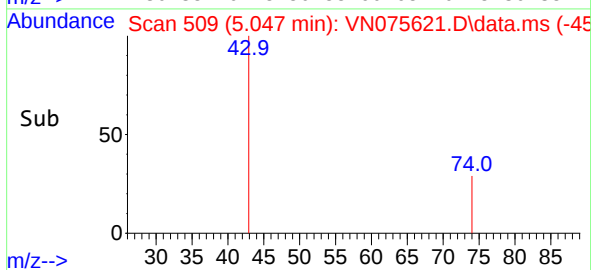
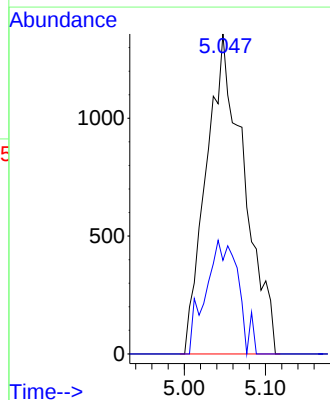
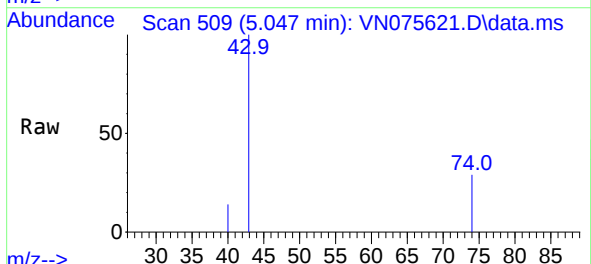
Instrument :
MSVOA_N
ClientSampleId :
2025

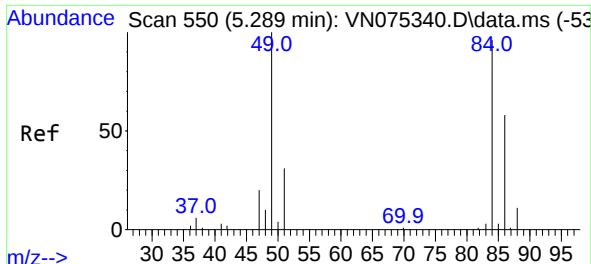
Tgt Ion: 76 Resp: 6036
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#18
Methyl Acetate
Concen: 0.605 ug/l
RT: 5.047 min Scan# 509
Delta R.T. 0.011 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

Tgt Ion: 43 Resp: 4407
Ion Ratio Lower Upper
43 100
74 30.6 22.0 33.0



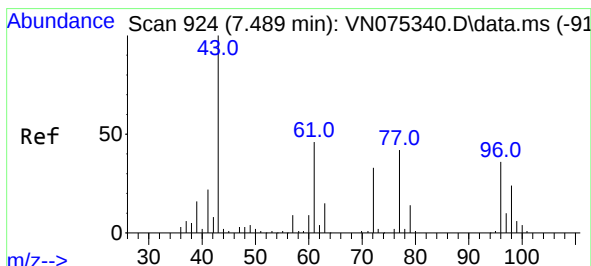
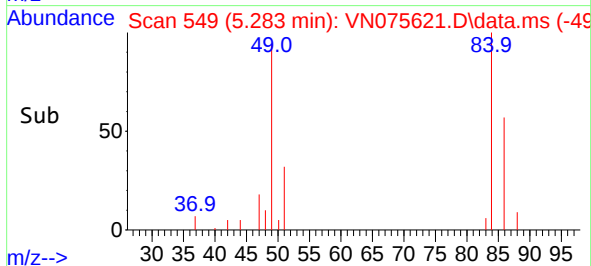
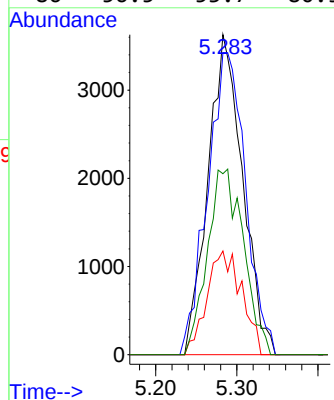
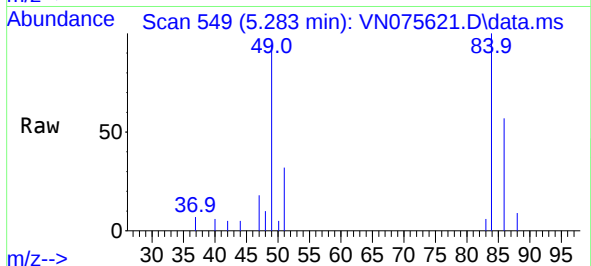


#20
Methylene Chloride
Concen: 4.550 ug/l
RT: 5.283 min Scan# 549
Delta R.T. -0.006 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

Instrument :
MSVOA_N
ClientSampleId :
2025

Tgt Ion: 84 Resp: 10746

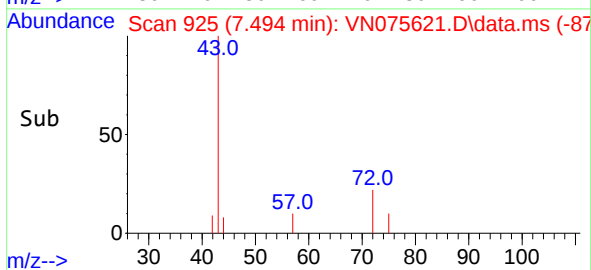
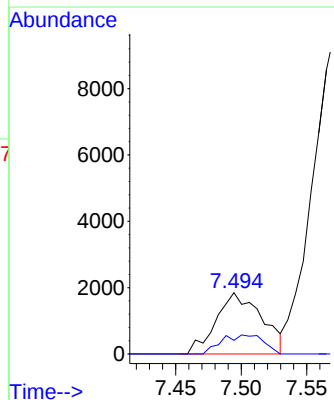
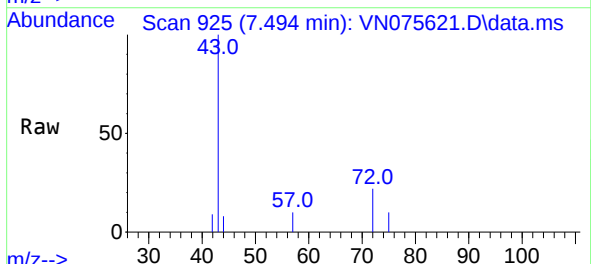
Ion	Ratio	Lower	Upper
84	100		
49	94.4	94.9	142.3#
51	32.4	26.8	40.2
86	56.5	53.7	80.5

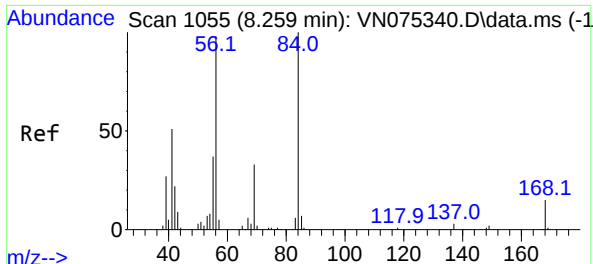


#25
2-Butanone
Concen: 3.463 ug/l
RT: 7.494 min Scan# 925
Delta R.T. 0.005 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

Tgt Ion: 43 Resp: 4485

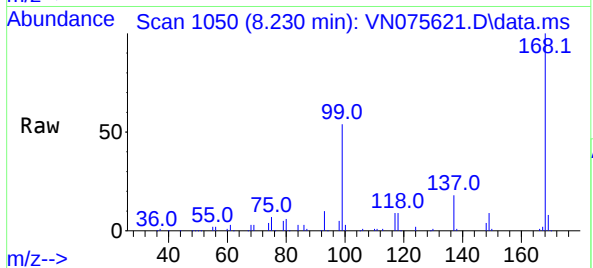
Ion	Ratio	Lower	Upper
43	100		
72	22.3	25.5	38.3#



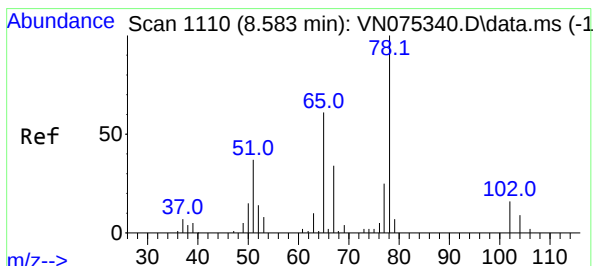
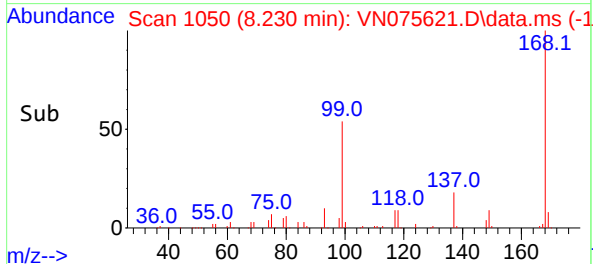
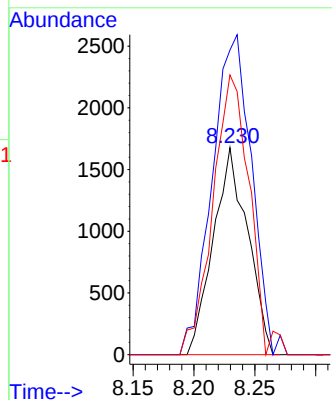


#31
Cyclohexane
Concen: 1.044 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.029 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

Instrument :
MSVOA_N
ClientSampleId :
2025

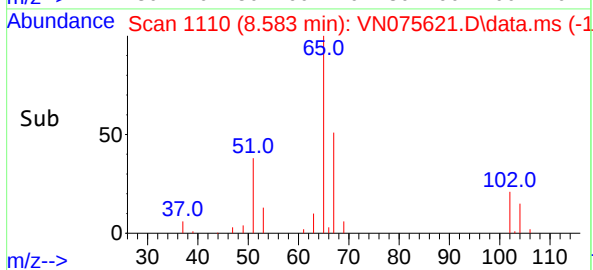
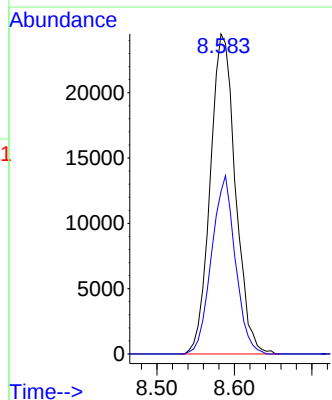
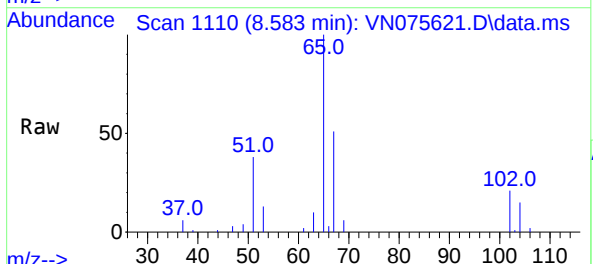


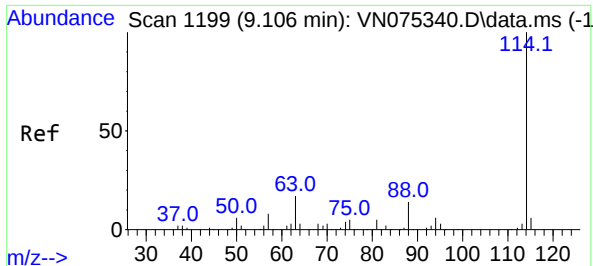
Tgt Ion: 56 Resp: 3299
Ion Ratio Lower Upper
56 100
69 147.1 25.2 37.8#
84 135.0 77.8 116.8#



#33
1,2-Dichloroethane-d4
Concen: 55.615 ug/l
RT: 8.583 min Scan# 1110
Delta R.T. -0.000 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

Tgt Ion: 65 Resp: 55314
Ion Ratio Lower Upper
65 100
67 52.5 0.0 102.0

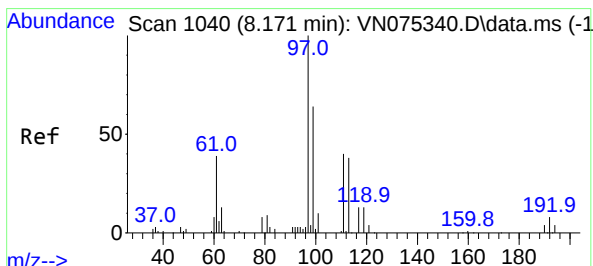
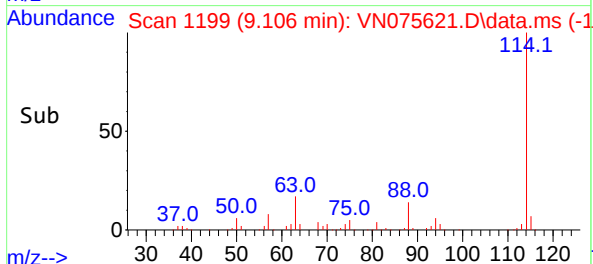
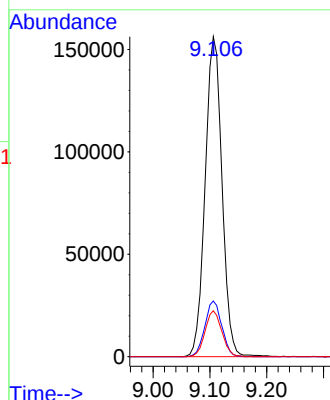
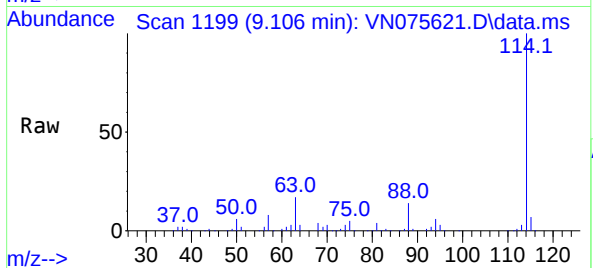




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1199
Delta R.T. 0.000 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

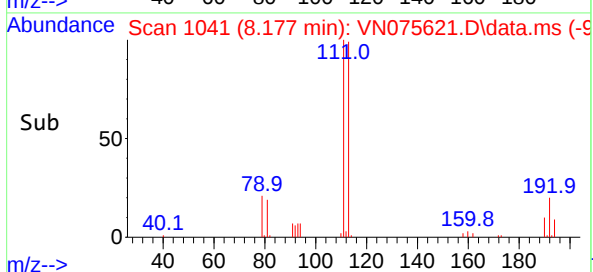
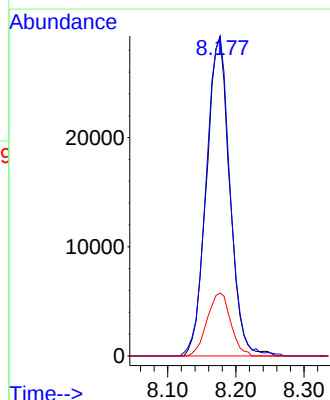
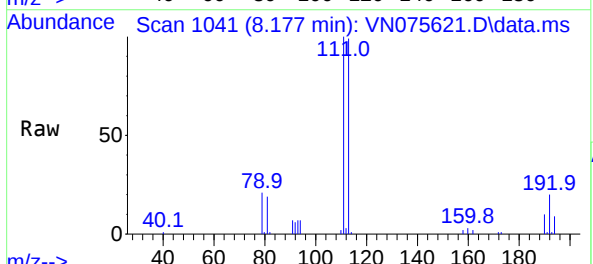
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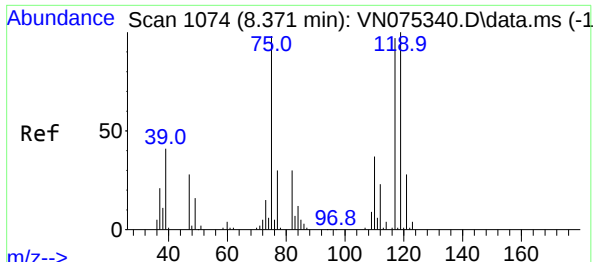
Tgt Ion:114 Resp: 321019
Ion Ratio Lower Upper
114 100
63 17.4 0.0 39.6
88 14.3 0.0 29.0



#35
Dibromofluoromethane
Concen: 54.917 ug/l
RT: 8.177 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

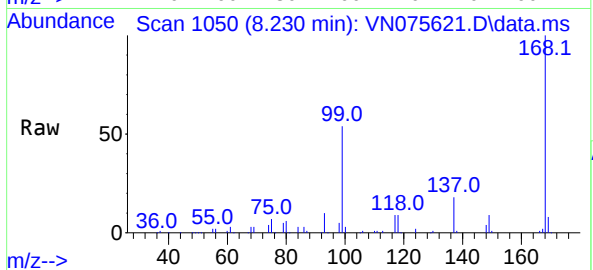
Tgt Ion:113 Resp: 69254
Ion Ratio Lower Upper
113 100
111 102.7 80.5 120.7
192 20.0 13.2 19.8#



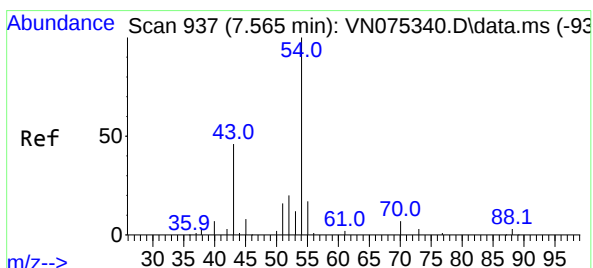
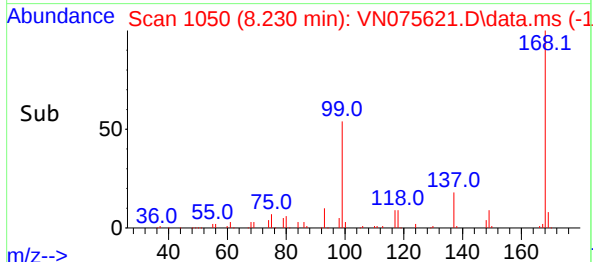
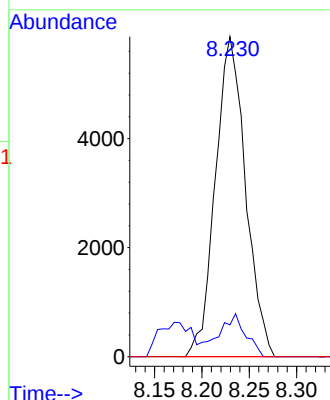


#36
1,1-Dichloropropene
Concen: 4.729 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.141 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

Instrument :
MSVOA_N
ClientSampleId :
2025

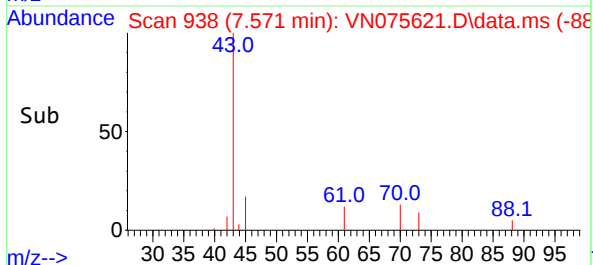
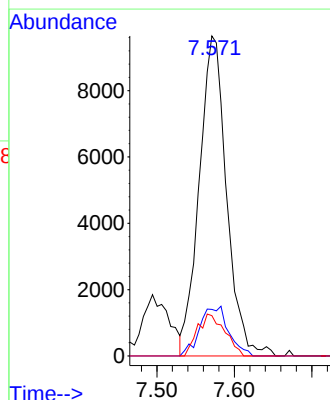
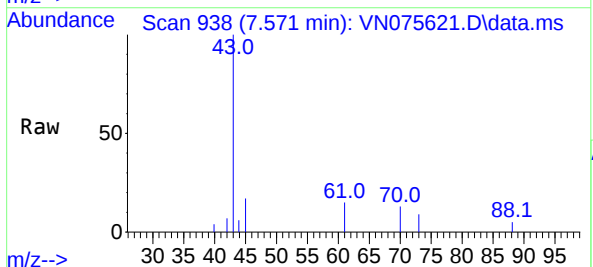


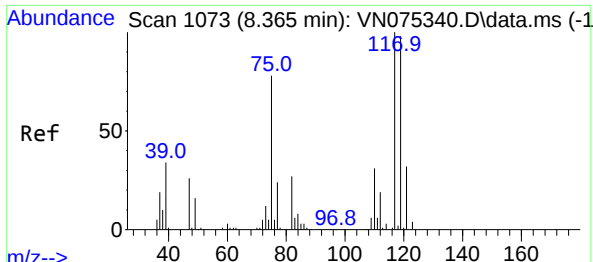
Tgt Ion: 75 Resp: 13005
Ion Ratio Lower Upper
75 100
110 11.7 17.8 53.3#
77 0.0 24.6 37.0#



#37
Ethyl Acetate
Concen: 9.553 ug/l
RT: 7.571 min Scan# 938
Delta R.T. 0.006 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

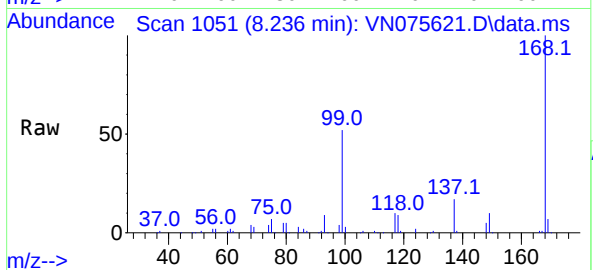
Tgt Ion: 43 Resp: 23656
Ion Ratio Lower Upper
43 100
61 16.2 12.2 18.4
70 13.1 9.4 14.2



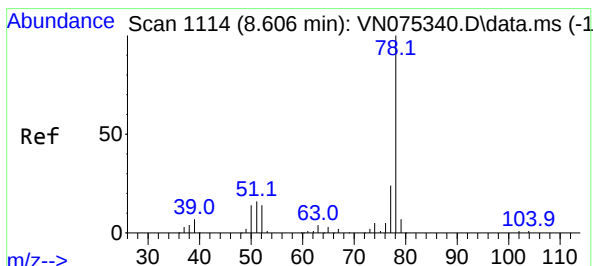
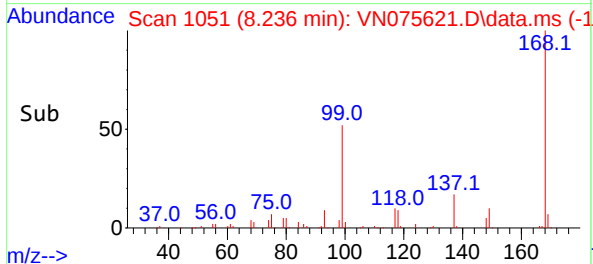
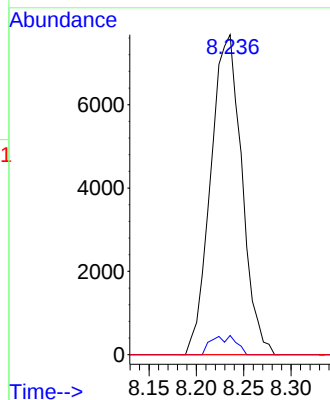


#38
Carbon Tetrachloride
Concen: 5.822 ug/l
RT: 8.236 min Scan# 1105
Delta R.T. -0.130 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

Instrument :
MSVOA_N
ClientSampleId :
2025

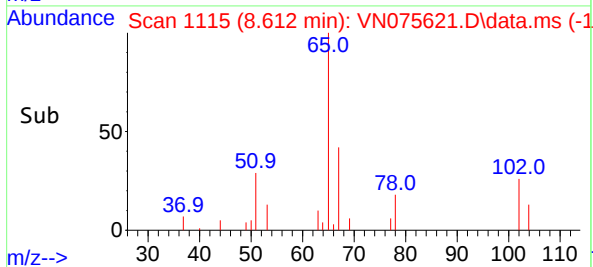
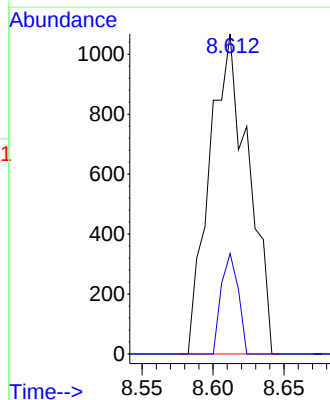
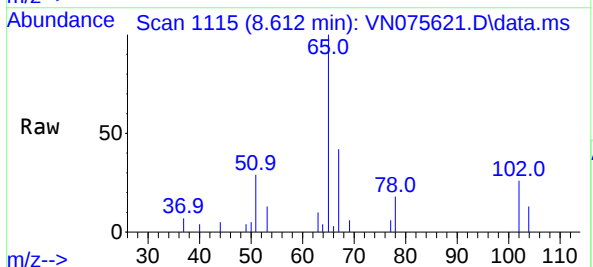


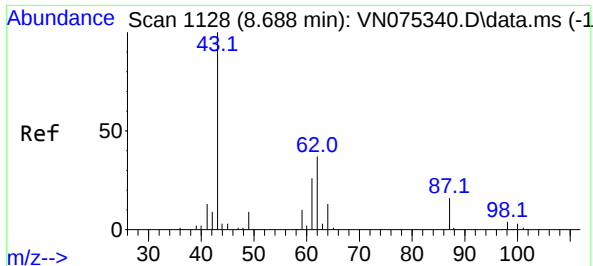
Tgt Ion:117 Resp: 17589
Ion Ratio Lower Upper
117 100
119 6.0 76.7 115.1#
121 0.0 23.9 35.9#



#40
Benzene
Concen: 0.241 ug/l
RT: 8.612 min Scan# 1115
Delta R.T. 0.006 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

Tgt Ion: 78 Resp: 2029
Ion Ratio Lower Upper
78 100
77 31.4 19.4 29.0#

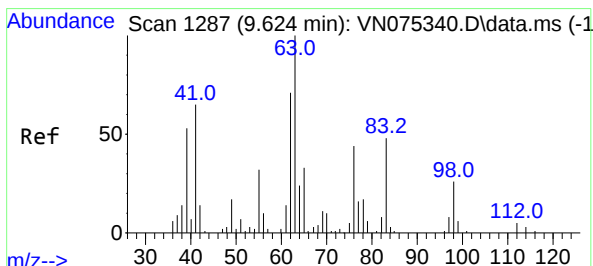
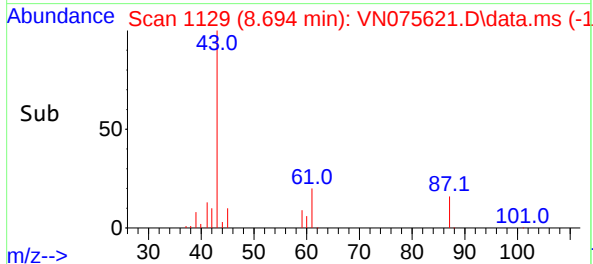
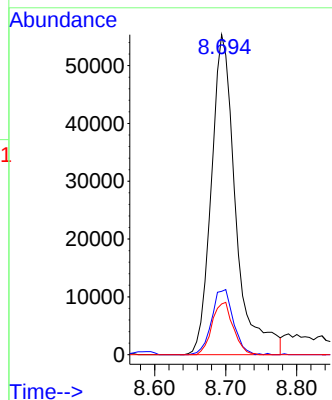
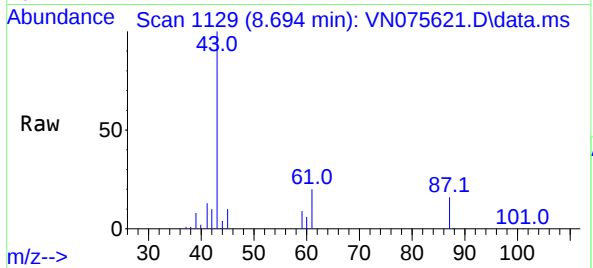




#43
Isopropyl Acetate
Concen: 33.184 ug/l
RT: 8.694 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

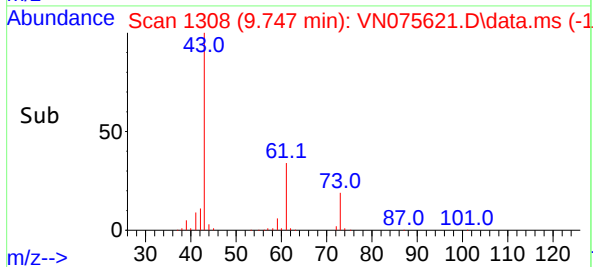
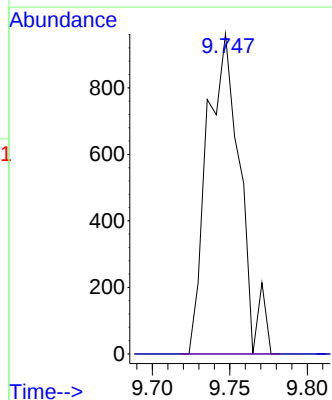
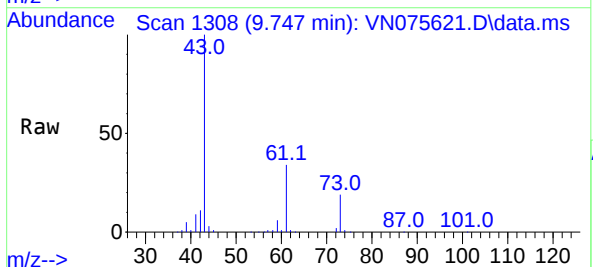
Instrument :
MSVOA_N
ClientSampleId :
2025

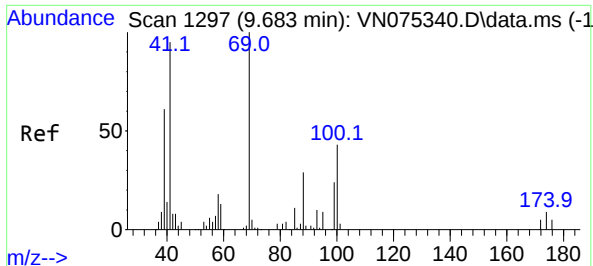
Tgt Ion: 43 Resp: 131896
Ion Ratio Lower Upper
43 100
61 18.1 22.4 33.6#
87 14.2 12.5 18.7



#45
1,2-Dichloropropane
Concen: 0.710 ug/l
RT: 9.747 min Scan# 1308
Delta R.T. 0.123 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

Tgt Ion: 63 Resp: 1425
Ion Ratio Lower Upper
63 100
65 0.0 26.1 39.1#

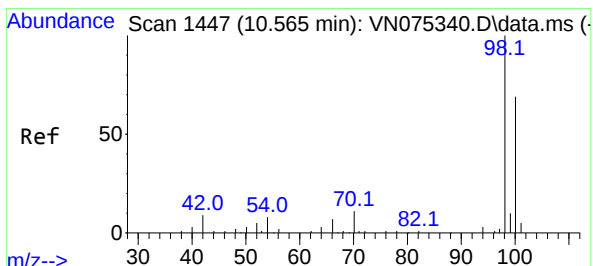
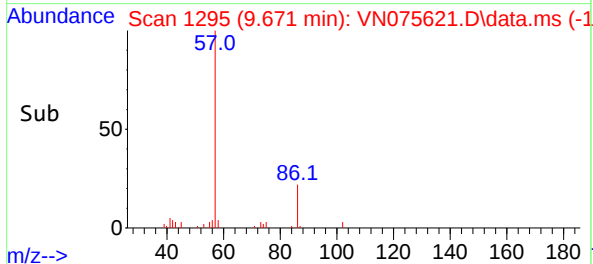
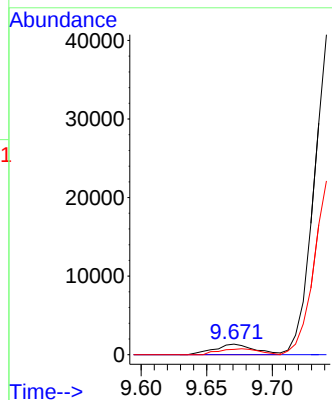
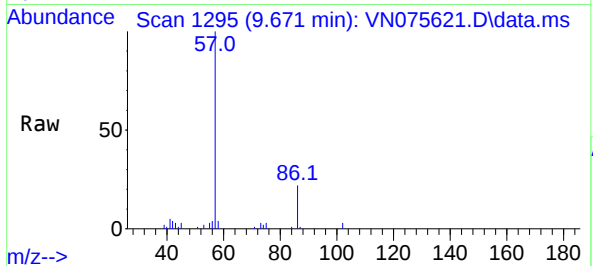




#48
Methyl methacrylate
Concen: 1.558 ug/l
RT: 9.671 min Scan# 1295
Delta R.T. -0.012 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

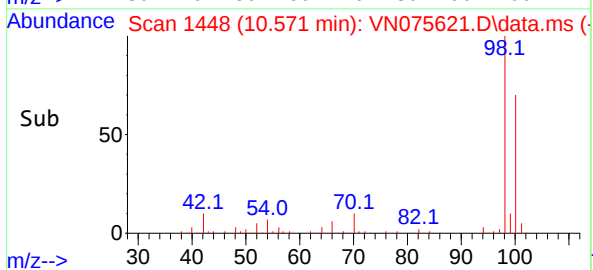
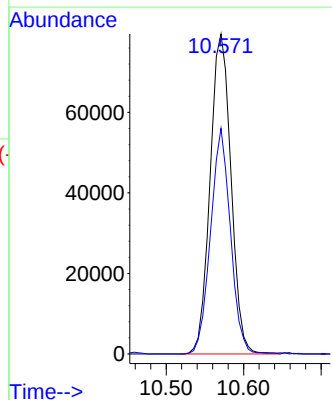
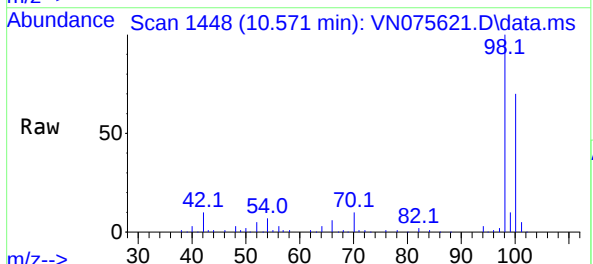
Instrument :
MSVOA_N
ClientSampleId :
2025

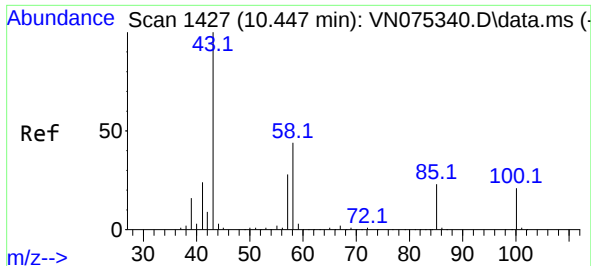
Tgt Ion: 41 Resp: 2863
Ion Ratio Lower Upper
41 100
69 0.0 80.2 120.2#
39 55.5 56.2 84.2#



#50
Toluene-d8
Concen: 52.348 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

Tgt Ion: 98 Resp: 148684
Ion Ratio Lower Upper
98 100
100 67.2 53.0 79.6

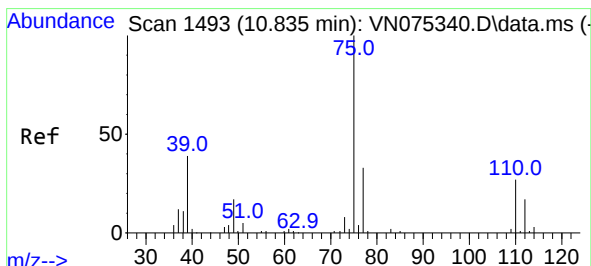
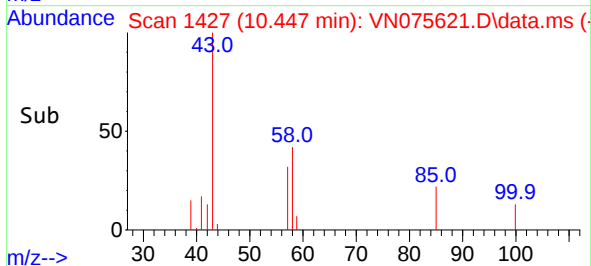
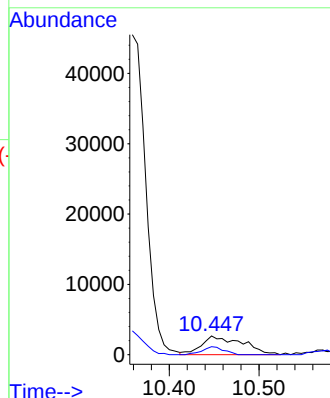
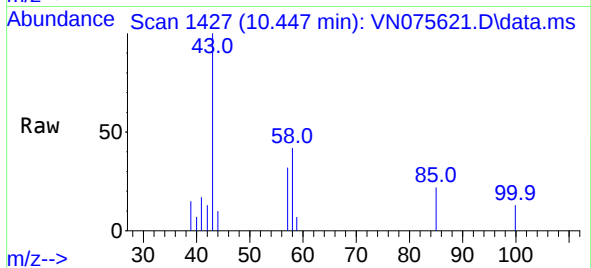




#51
4-Methyl-2-Pentanone
Concen: 3.324 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

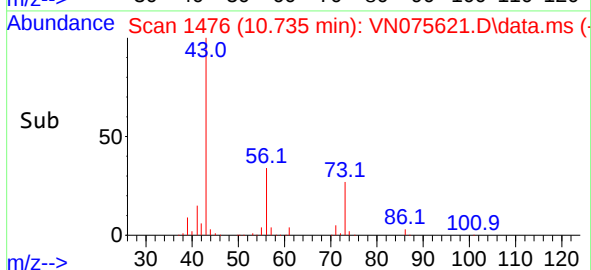
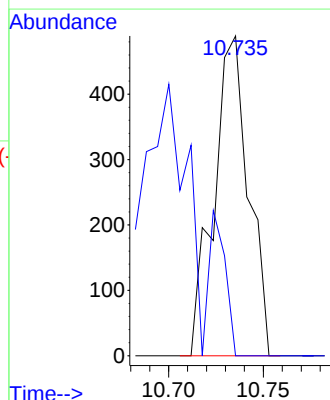
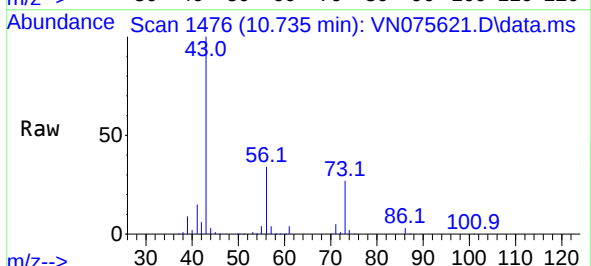
Instrument :
MSVOA_N
ClientSampleId :
2025

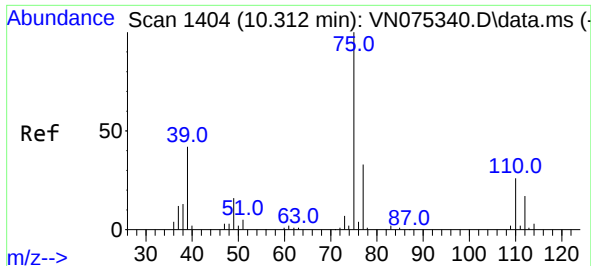
Tgt Ion: 43 Resp: 8416
Ion Ratio Lower Upper
43 100
58 22.4 33.6 50.4#



#53
t-1,3-Dichloropropene
Concen: 0.211 ug/l
RT: 10.735 min Scan# 1476
Delta R.T. -0.100 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

Tgt Ion: 75 Resp: 624
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#

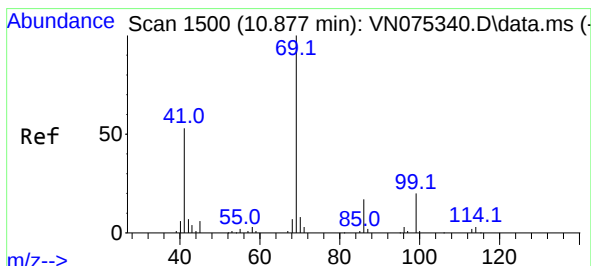
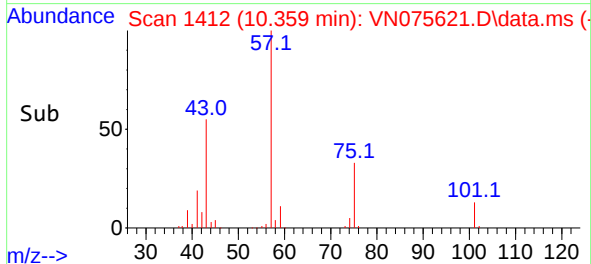
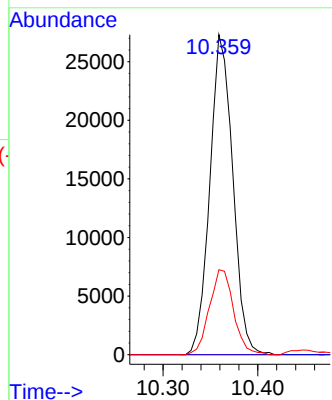
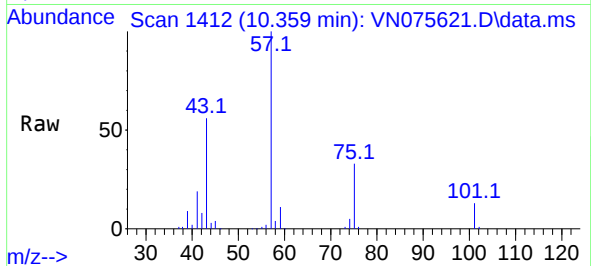




#54
cis-1,3-Dichloropropene
Concen: 14.316 ug/l
RT: 10.359 min Scan# 1412
Delta R.T. 0.047 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

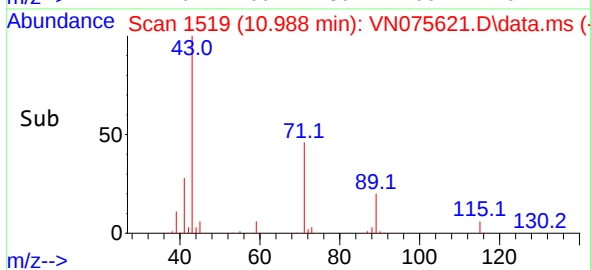
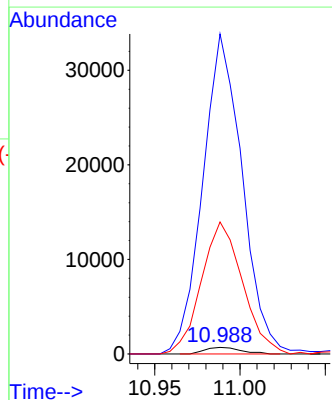
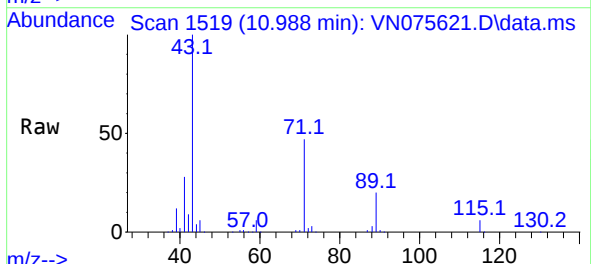
Instrument :
MSVOA_N
ClientSampleId :
2025

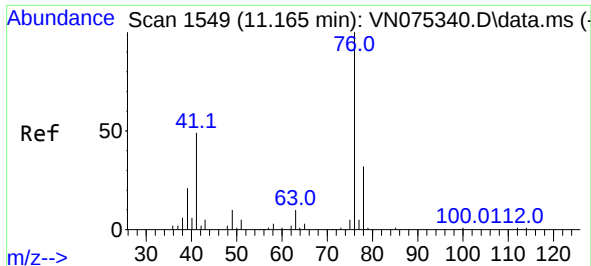
Tgt Ion: 75 Resp: 45878
Ion Ratio Lower Upper
75 100
77 0.0 23.7 35.5#
39 26.6 35.8 53.6#



#56
Ethyl methacrylate
Concen: 0.343 ug/l
RT: 10.988 min Scan# 1519
Delta R.T. 0.111 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

Tgt Ion: 69 Resp: 1023
Ion Ratio Lower Upper
69 100
41 5342.0 45.6 68.4#
39 2294.2 28.5 42.7#





#57

1,3-Dichloropropane

Concen: 1.556 ug/l

RT: 11.206 min Scan# 1556

Delta R.T. 0.041 min

Lab File: VN075621.D

Acq: 07 Dec 2022 21:08

Instrument :

MSVOA_N

ClientSampleId :

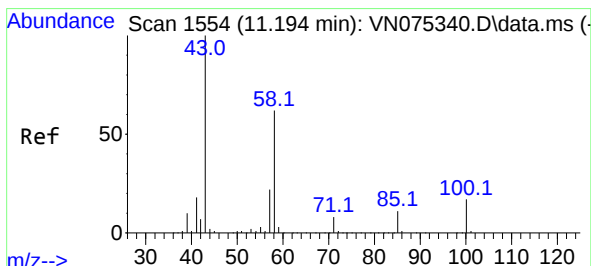
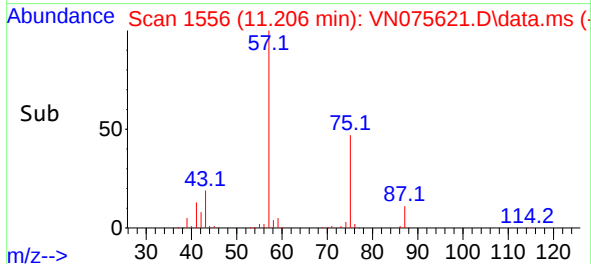
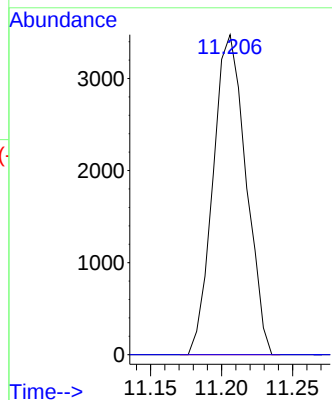
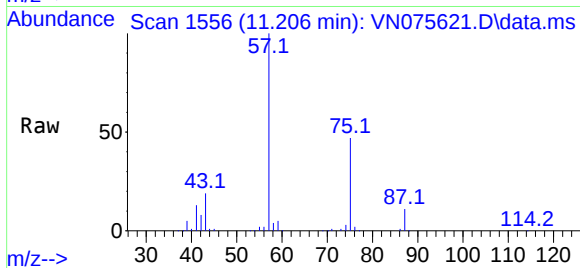
2025

Tgt Ion: 76 Resp: 5606

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 49.852 ug/l

RT: 11.176 min Scan# 1551

Delta R.T. -0.018 min

Lab File: VN075621.D

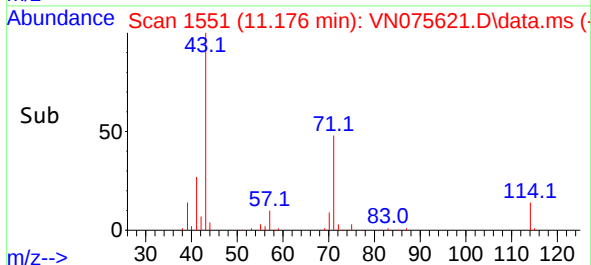
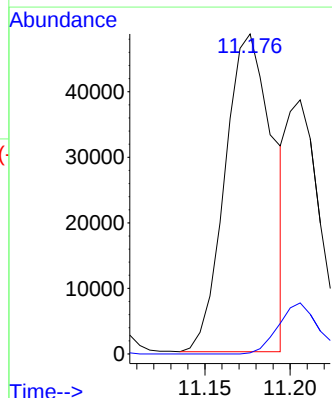
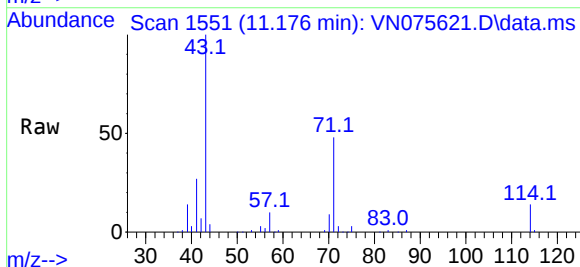
Acq: 07 Dec 2022 21:08

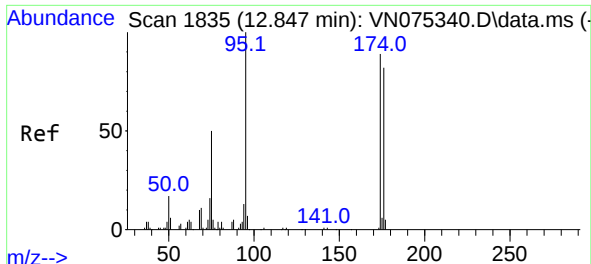
Tgt Ion: 43 Resp: 94767

Ion Ratio Lower Upper

43 100

58 0.0 29.6 88.8#

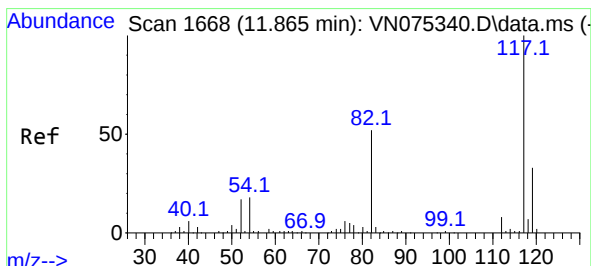
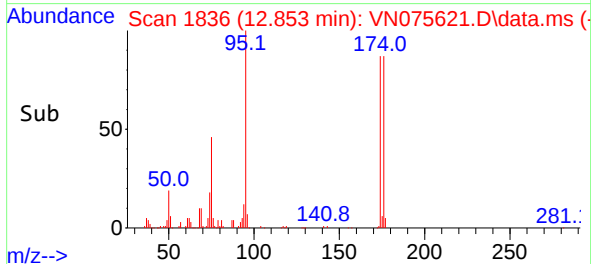
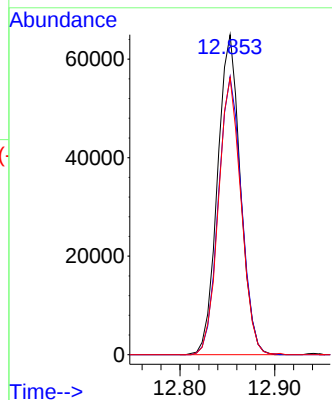
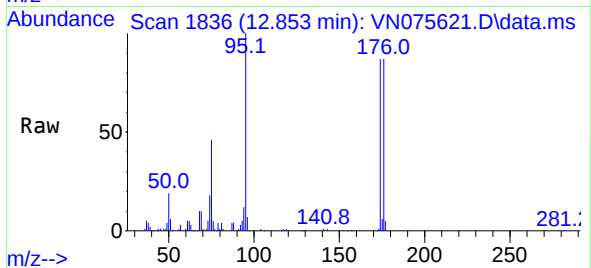




#62
4-Bromofluorobenzene
Concen: 51.962 ug/l
RT: 12.853 min Scan# 1835
Delta R.T. 0.006 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

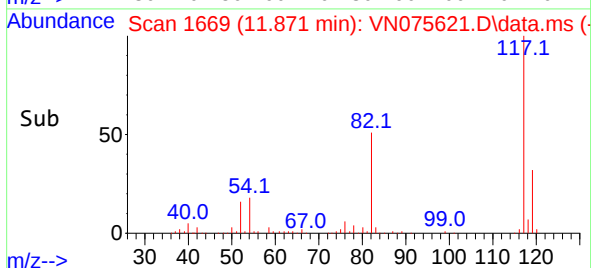
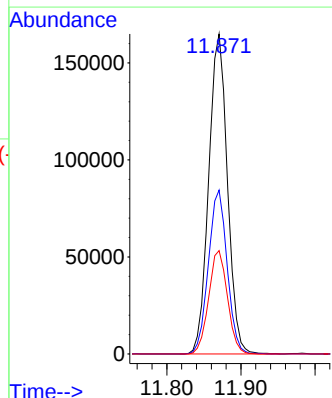
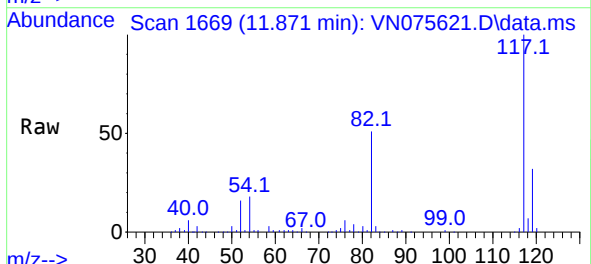
Instrument :
MSVOA_N
ClientSampleId :
2025

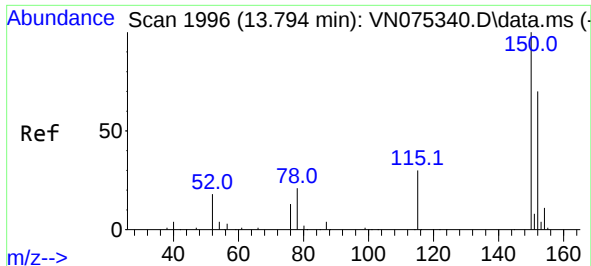
Tgt Ion: 95 Resp: 108935
Ion Ratio Lower Upper
95 100
174 87.7 0.0 147.4
176 85.6 0.0 142.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

Tgt Ion: 117 Resp: 289255
Ion Ratio Lower Upper
117 100
82 51.2 43.1 64.7
119 32.3 25.5 38.3

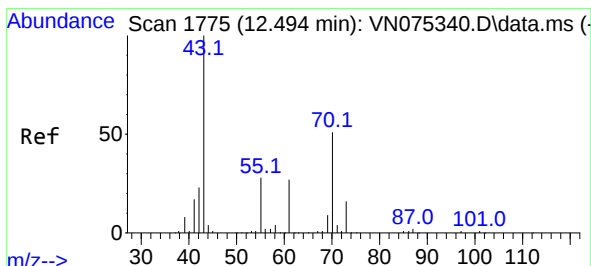
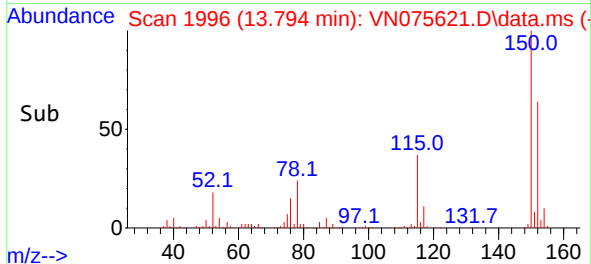
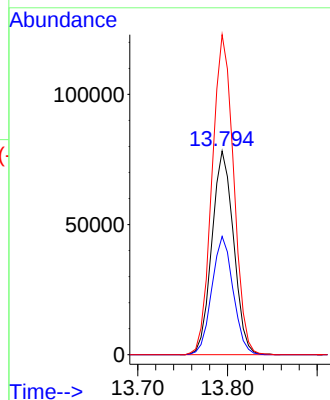
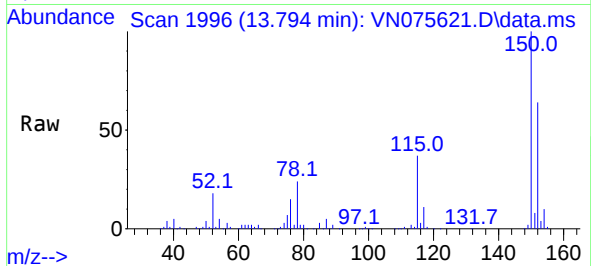




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

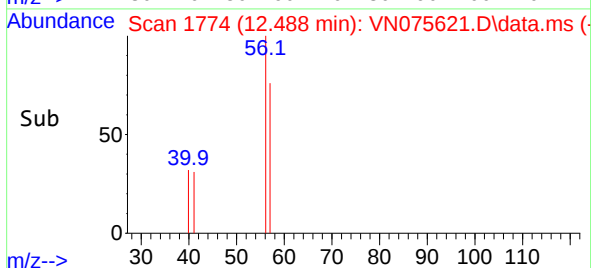
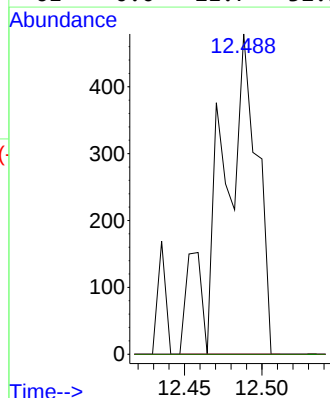
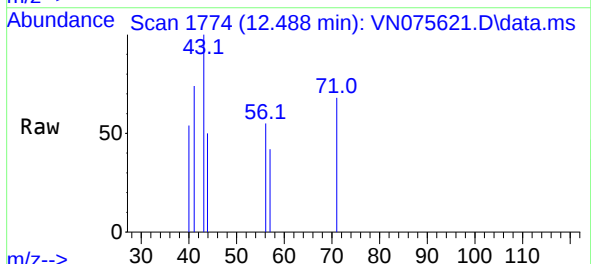
Instrument :
MSVOA_N
ClientSampleId :
2025

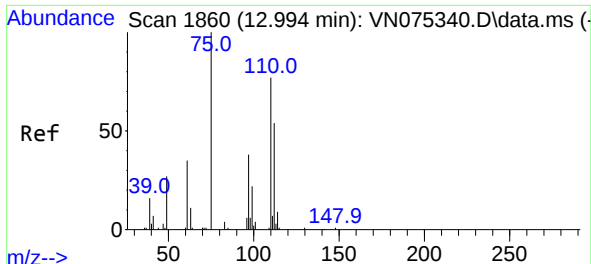
Tgt Ion:152 Resp: 131399
Ion Ratio Lower Upper
152 100
115 57.1 30.2 90.6
150 156.6 0.0 348.4



#74
N-ethyl acetate
Concen: 0.266 ug/l
RT: 12.488 min Scan# 1774
Delta R.T. -0.006 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

Tgt Ion: 43 Resp: 784
Ion Ratio Lower Upper
43 100
70 0.0 39.8 59.8#
55 0.0 19.9 29.9#
61 0.0 21.7 32.5#

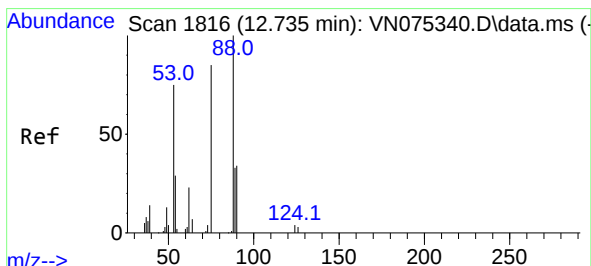
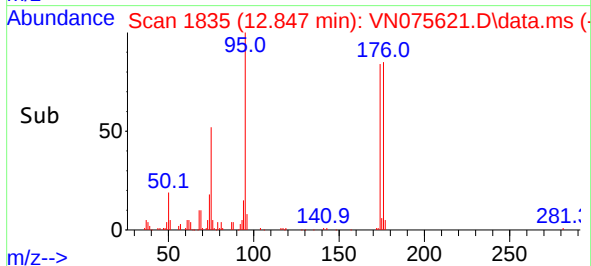
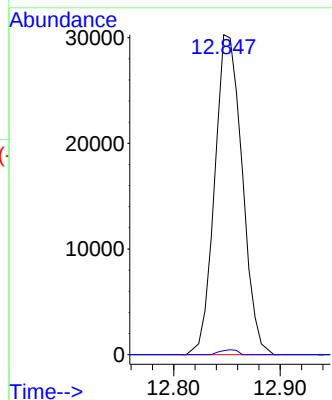
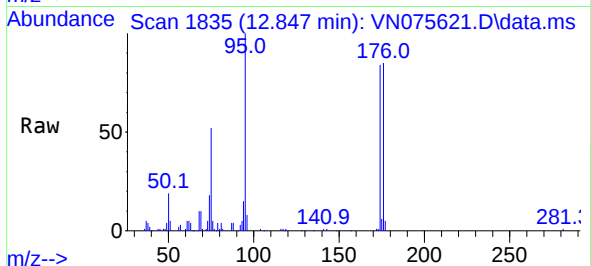




#76
1,2,3-Trichloropropane
Concen: 21.807 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.147 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

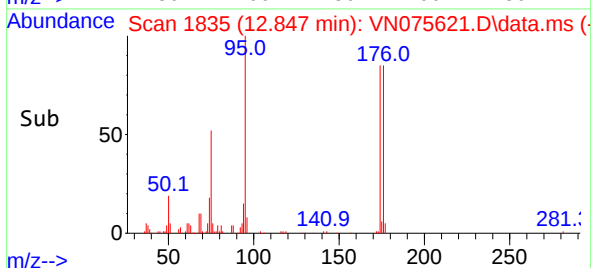
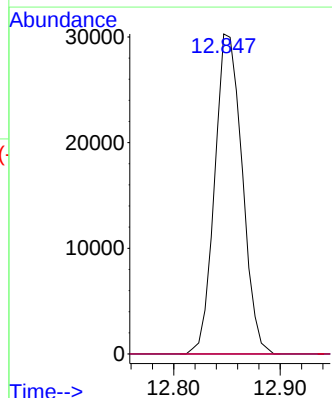
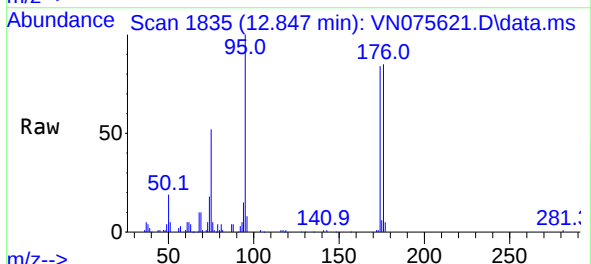
Instrument :
MSVOA_N
ClientSampleId :
2025

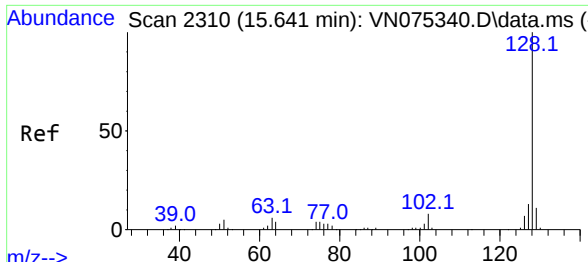
Tgt Ion: 75 Resp: 54177
Ion Ratio Lower Upper
75 100
77 1.0 75.6 226.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 64.521 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.112 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

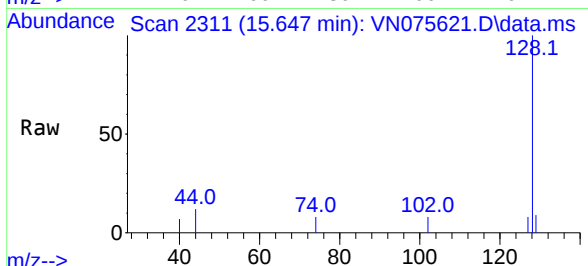
Tgt Ion: 75 Resp: 54177
Ion Ratio Lower Upper
75 100
53 0.0 78.5 117.7#
89 0.0 37.7 56.5#





#95
Naphthalene
Concen: 0.600 ug/l
RT: 15.647 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN075621.D
Acq: 07 Dec 2022 21:08

Instrument :
MSVOA_N
ClientSampleId :
2025



Tgt Ion:128 Resp: 4236

Ion	Ratio	Lower	Upper
128	100		
127	7.8	10.4	15.6#
129	11.9	8.6	12.8

