

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090122\
 Data File : VN074271.D
 Acq On : 02 Sep 2022 03:43
 Operator : JC\MD
 Sample : N4354-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 02 05:45:15 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N083022W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 31 07:02:40 2022
 Response via : Initial Calibration

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

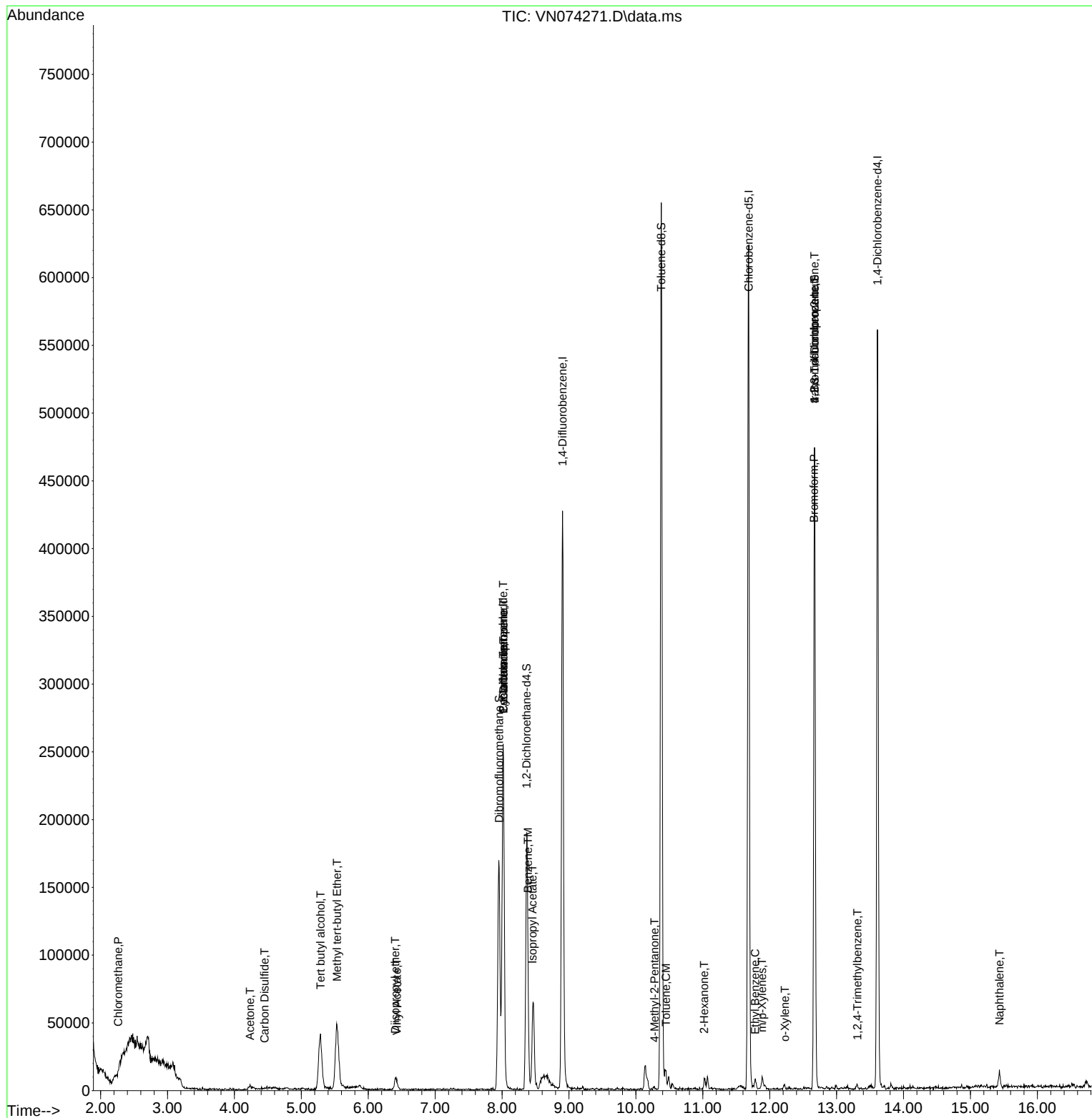
Internal Standards						
1) Pentafluorobenzene	8.022	168	192486	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	354939	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	329415	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.609	152	135671	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	143220	47.965	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.920%		
35) Dibromofluoromethane	7.957	113	118801	51.437	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	102.880%		
50) Toluene-d8	10.380	98	426211	46.858	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.720%		
62) 4-Bromofluorobenzene	12.668	95	144131	52.107	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	104.220%		
Target Compounds					Qvalue	
3) Chloromethane	2.263	50	1155	0.412	ug/l #	43
6) Chloroethane	3.010	64	1376	Below Cal	#	42
11) Tert butyl alcohol	5.286	59	68116	96.690	ug/l	96
16) Acetone	4.234	43	4324	2.167	ug/l	91
17) Carbon Disulfide	4.451	76	1428	0.222	ug/l #	75
18) Methyl Acetate	4.792	43	1355	Below Cal	#	76
19) Methyl tert-butyl Ether	5.534	73	71134	8.521	ug/l	99
20) Methylene Chloride	5.034	84	373	Below Cal	#	20
22) Diisopropyl ether	6.404	45	11010	1.074	ug/l #	91
23) Vinyl Acetate	6.428	43	5717	0.660	ug/l #	68
28) Bromochloromethane	7.386	49	68	Below Cal	#	8
31) Cyclohexane	8.022	56	5526	1.120	ug/l #	4
36) 1,1-Dichloropropene	8.022	75	17402	4.644	ug/l #	46
38) Carbon Tetrachloride	8.016	117	19788	5.815	ug/l #	14
40) Benzene	8.386	78	3590	0.305	ug/l #	51
43) Isopropyl Acetate	8.457	43	15276	1.813	ug/l #	55
51) 4-Methyl-2-Pentanone	10.280	43	1455	0.238	ug/l #	62
52) Toluene	10.451	92	5612	0.809	ug/l	83
59) 2-Hexanone	11.021	43	1889	0.407	ug/l #	25
67) Ethyl Benzene	11.780	91	4054	0.305	ug/l #	73
68) m/p-Xylenes	11.886	106	2516	0.509	ug/l	92
69) o-Xylene	12.227	106	1239	0.252	ug/l	70
71) Bromoform	12.662	173	969	0.434	ug/l #	1
76) 1,2,3-Trichloropropane	12.668	75	85126	25.270	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.668	75	85126	65.127	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.310	105	2358	0.259	ug/l	83
95) Naphthalene	15.433	128	9483	2.051	ug/l #	93

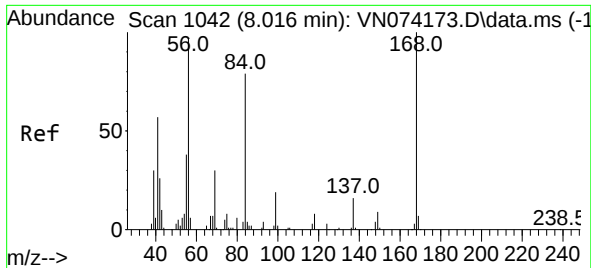
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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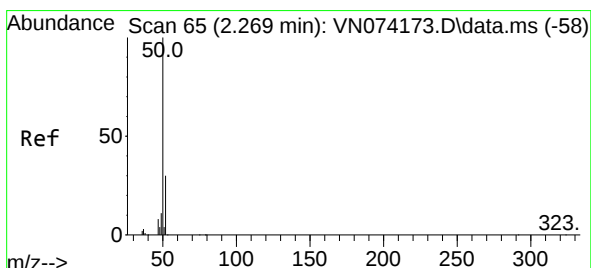
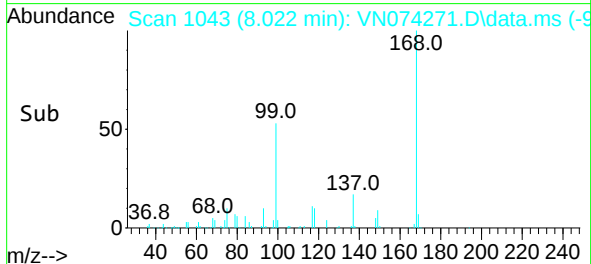
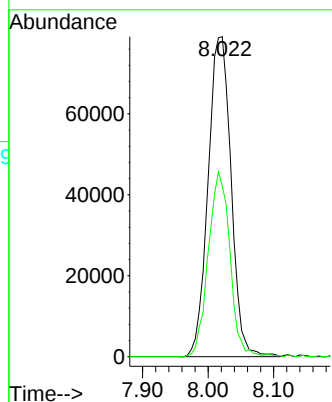
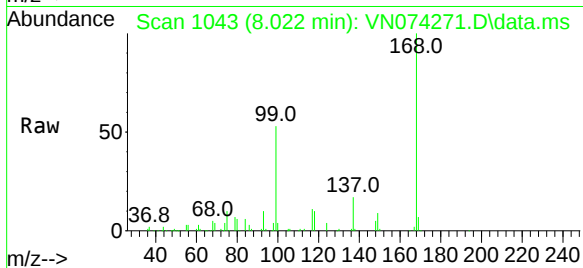




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

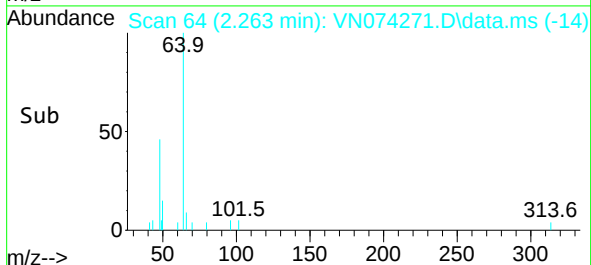
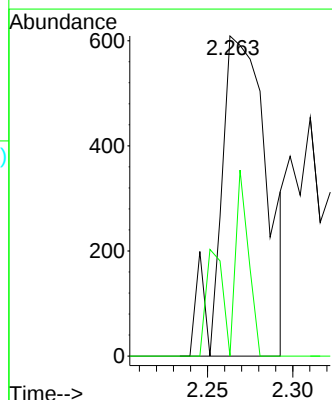
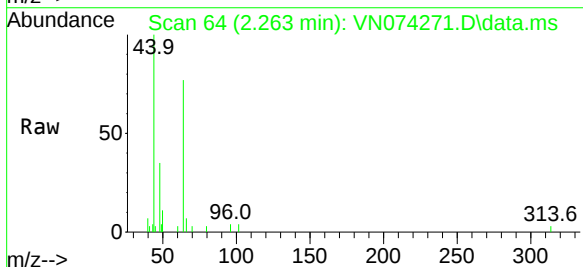
Instrument :
MSVOA_N
ClientSampleId :

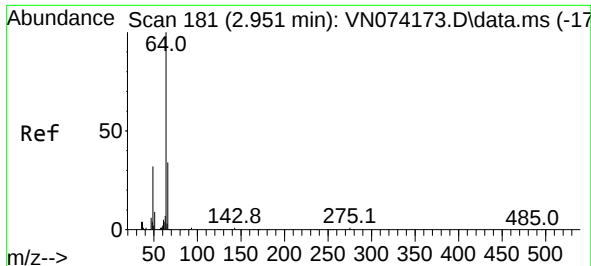
Tgt Ion:168 Resp: 192486
Ion Ratio Lower Upper
168 100
99 53.3 42.3 63.5



#3
Chloromethane
Concen: 0.412 ug/l
RT: 2.263 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

Tgt Ion: 50 Resp: 1155
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#

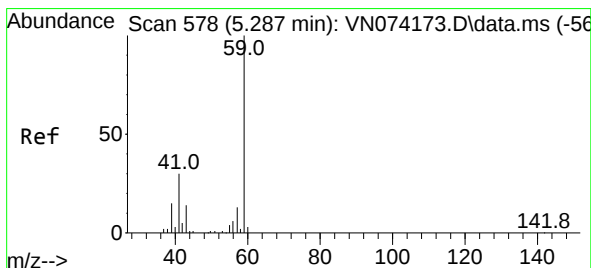
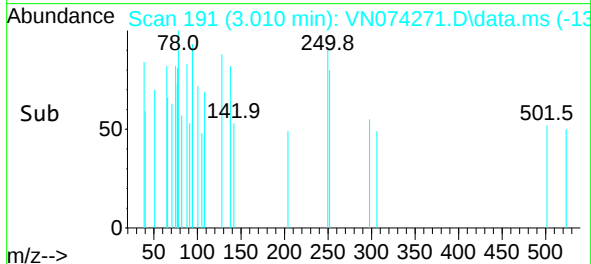
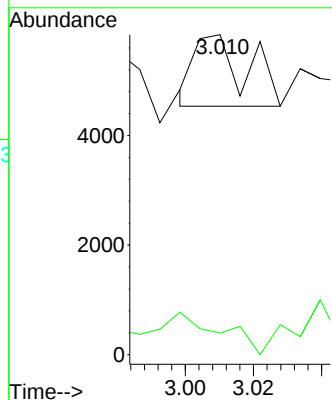
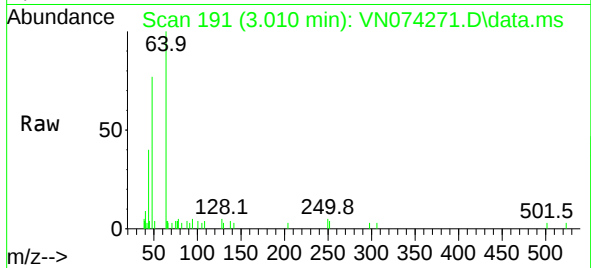




#6
Chloroethane
Concen: Below Cal
RT: 3.010 min Scan# 191
Delta R.T. 0.059 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

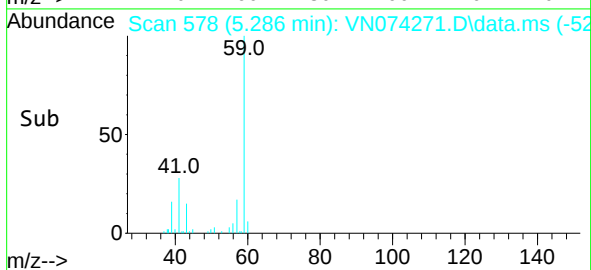
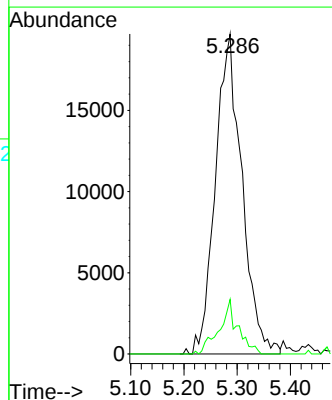
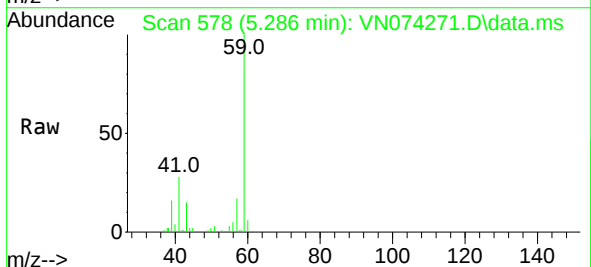
Instrument :
MSVOA_N
ClientSampleId :

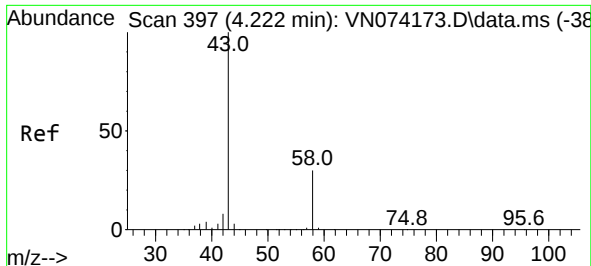
Tgt Ion: 64 Resp: 1376
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: 96.690 ug/l
RT: 5.286 min Scan# 578
Delta R.T. -0.001 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

Tgt Ion: 59 Resp: 68116
Ion Ratio Lower Upper
59 100
57 12.0 8.3 12.5





#16

Acetone

Concen: 2.167 ug/l

RT: 4.234 min Scan# 399

Delta R.T. 0.012 min

Lab File: VN074271.D

Acq: 02 Sep 2022 03:43

Instrument :

MSVOA_N

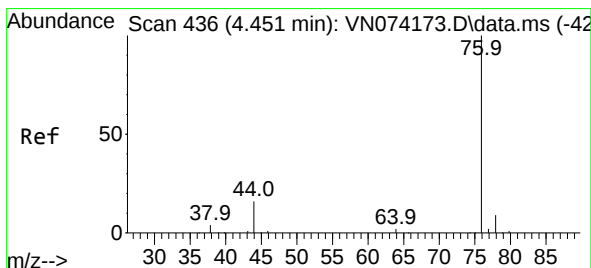
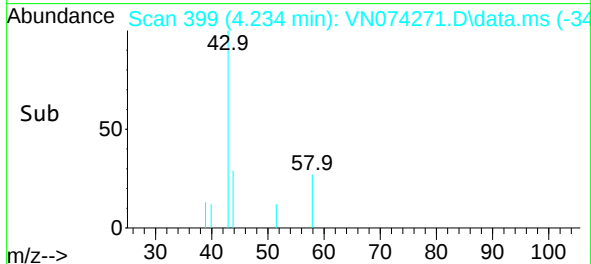
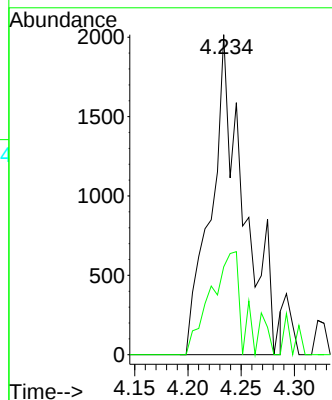
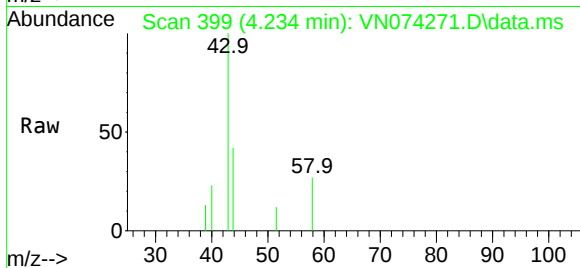
ClientSampleId :

Tgt Ion: 43 Resp: 4324

Ion Ratio Lower Upper

43 100

58 27.5 26.0 39.0



#17

Carbon Disulfide

Concen: 0.222 ug/l

RT: 4.451 min Scan# 436

Delta R.T. -0.000 min

Lab File: VN074271.D

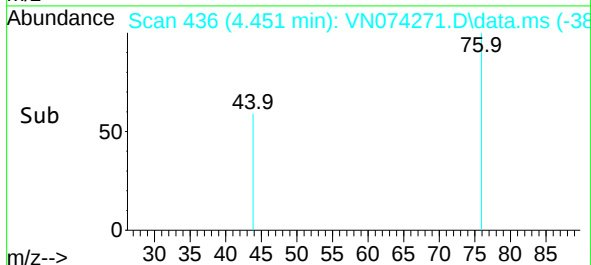
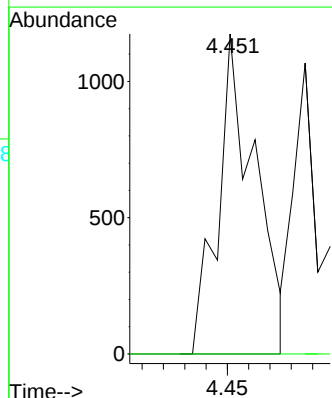
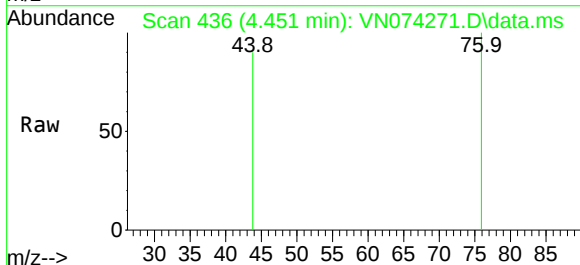
Acq: 02 Sep 2022 03:43

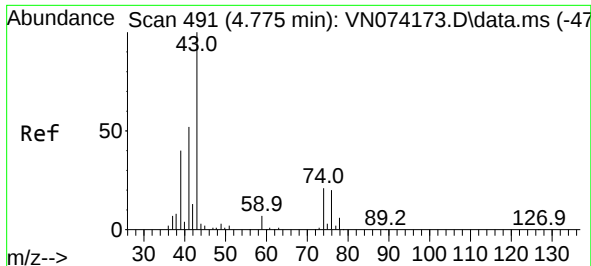
Tgt Ion: 76 Resp: 1428

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#





#18

Methyl Acetate

Concen: Below Cal

RT: 4.792 min Scan# 491

Delta R.T. 0.017 min

Lab File: VN074271.D

Acq: 02 Sep 2022 03:43

Instrument :

MSVOA_N

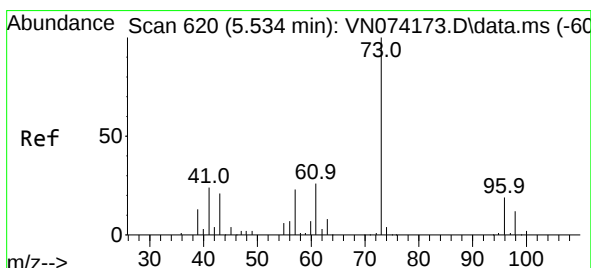
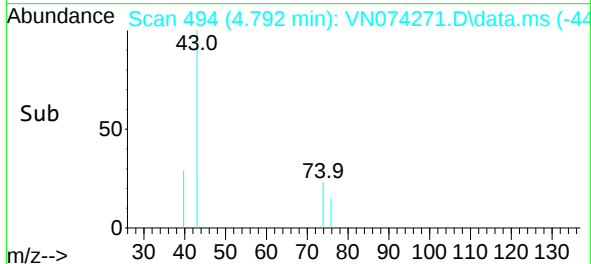
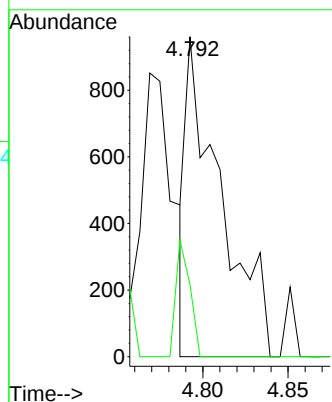
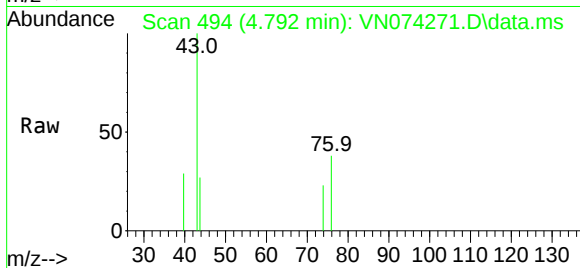
ClientSampleId :

Tgt Ion: 43 Resp: 1355

Ion Ratio Lower Upper

43 100

74 14.8 21.6 32.4#



#19

Methyl tert-butyl Ether

Concen: 8.521 ug/l

RT: 5.534 min Scan# 620

Delta R.T. -0.000 min

Lab File: VN074271.D

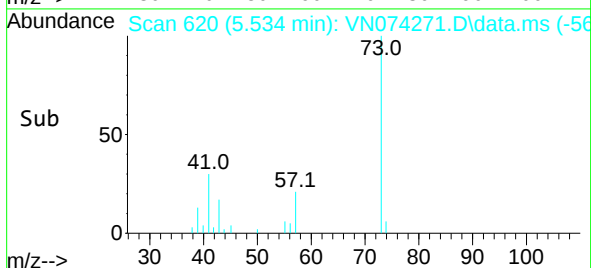
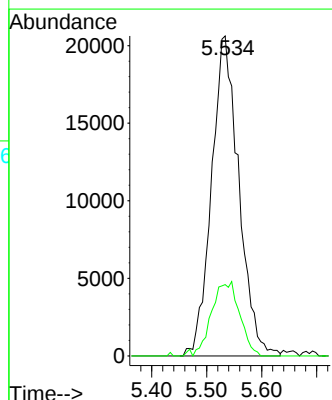
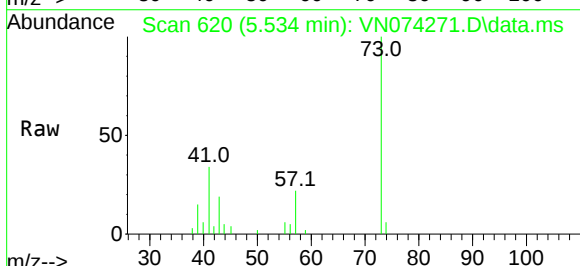
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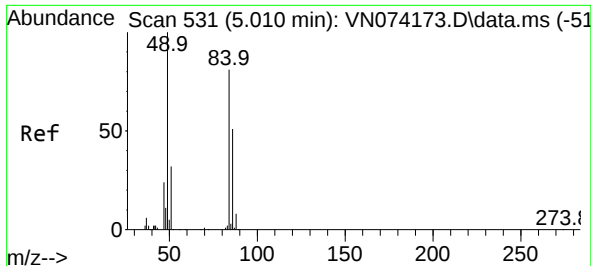
Tgt Ion: 73 Resp: 71134

Ion Ratio Lower Upper

73 100

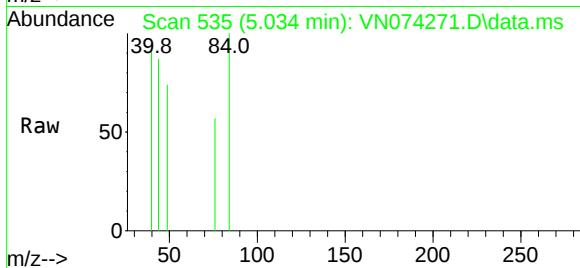
57 22.3 17.6 26.4



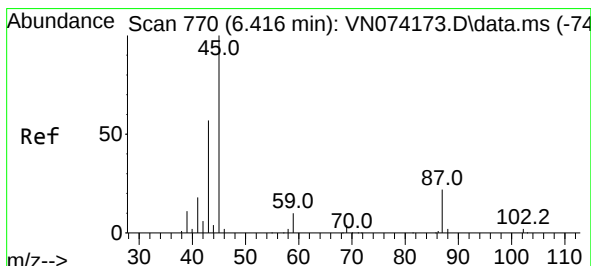
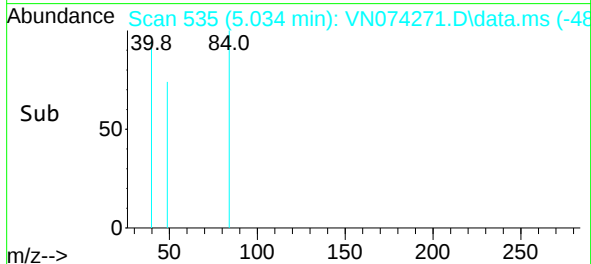
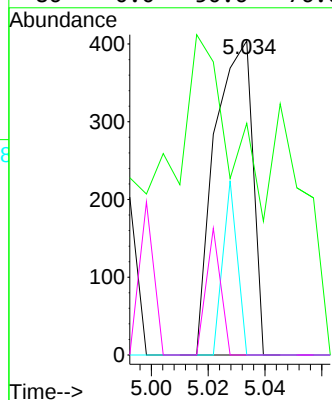


#20
Methylene Chloride
Concen: Below Cal
RT: 5.034 min Scan# 51
Delta R.T. 0.024 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

Instrument :
MSVOA_N
ClientSampleId :

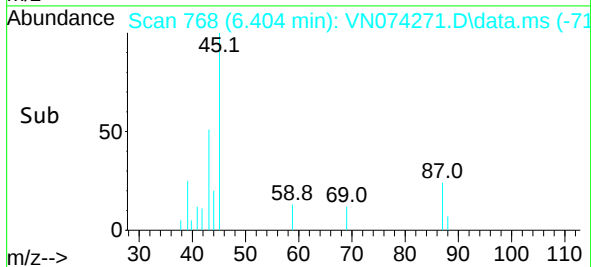
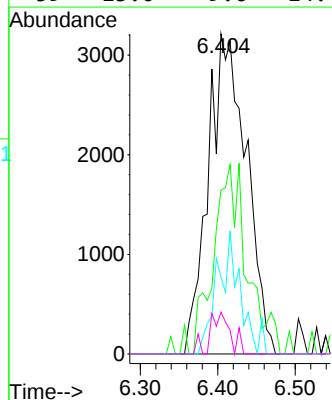
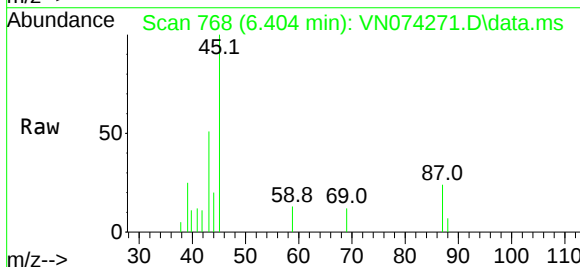


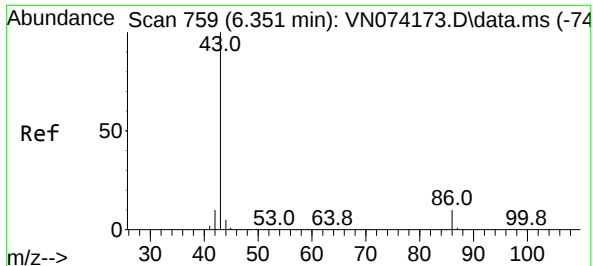
Tgt Ion:	84	Resp:	373
Ion	Ratio	Lower	Upper
84	100		
49	19.6	88.3	132.5#
51	0.0	28.2	42.2#
86	0.0	50.6	76.0#



#22
Diisopropyl ether
Concen: 1.074 ug/l
RT: 6.404 min Scan# 768
Delta R.T. -0.012 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

Tgt Ion:	45	Resp:	11010
Ion	Ratio	Lower	Upper
45	100		
43	51.2	46.6	70.0
87	24.0	24.3	36.5#
59	13.0	9.6	14.4

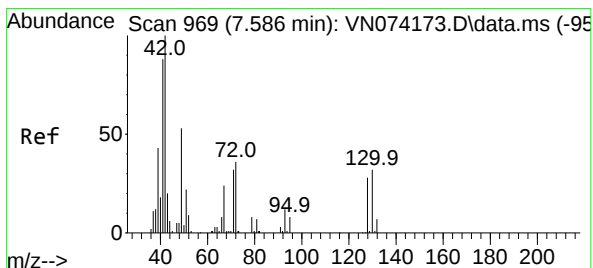
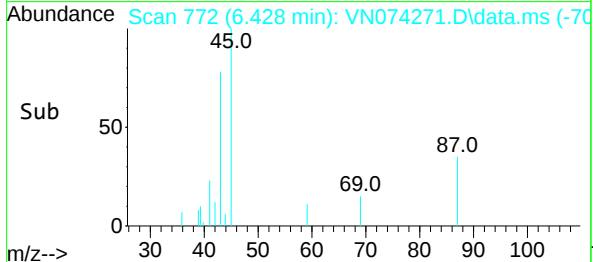
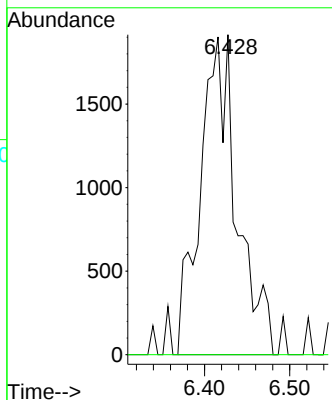
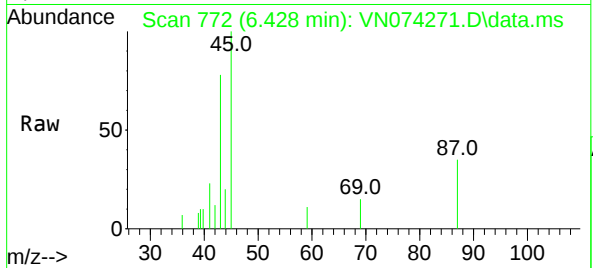




#23
 Vinyl Acetate
 Concen: 0.660 ug/l
 RT: 6.428 min Scan# 71
 Delta R.T. 0.076 min
 Lab File: VN074271.D
 Acq: 02 Sep 2022 03:43

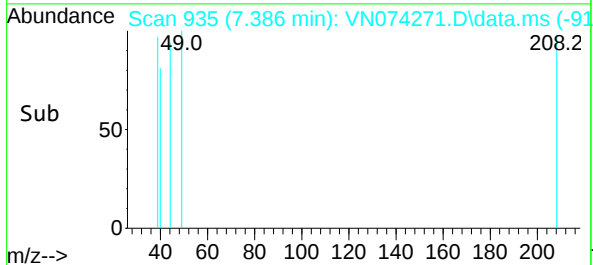
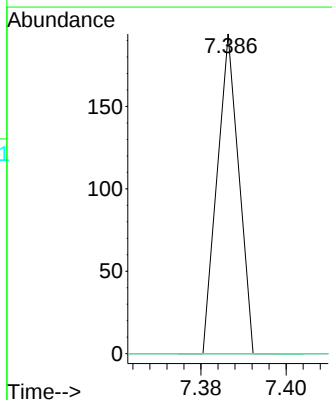
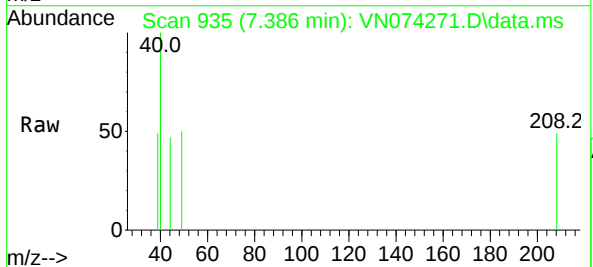
Instrument :
 MSVOA_N
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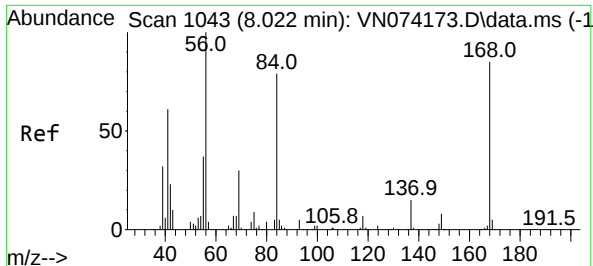
Tgt Ion: 43 Resp: 5717
 Ion Ratio Lower Upper
 43 100
 86 0.0 10.0 15.0#



#28
 Bromochloromethane
 Concen: Below Cal
 RT: 7.386 min Scan# 935
 Delta R.T. -0.200 min
 Lab File: VN074271.D
 Acq: 02 Sep 2022 03:43

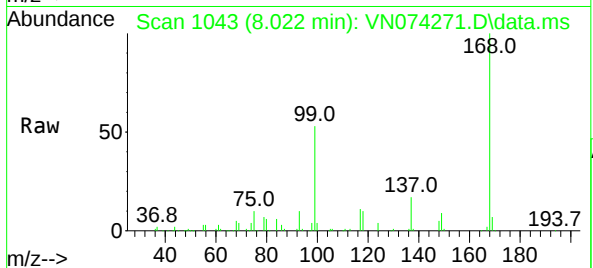
Tgt Ion: 49 Resp: 68
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 4.6
 130 0.0 69.7 104.5#



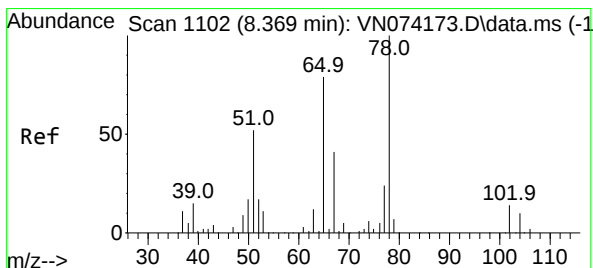
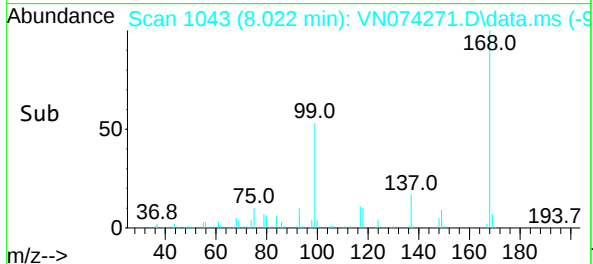
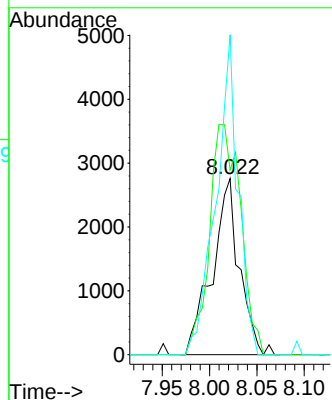


#31
Cyclohexane
Concen: 1.120 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

Instrument :
MSVOA_N
ClientSampleId :

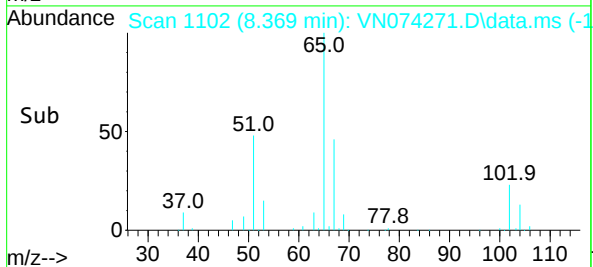
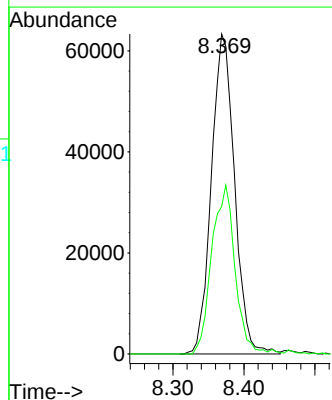
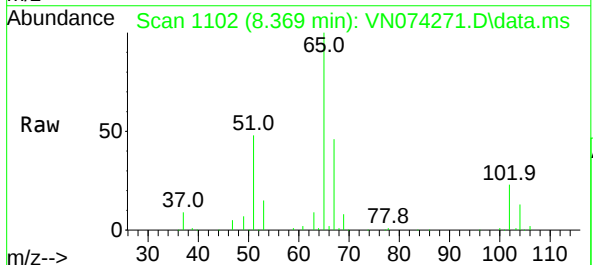


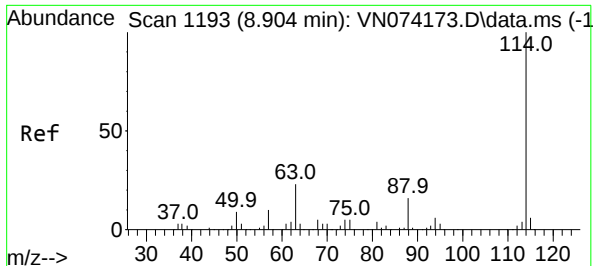
Tgt Ion: 56 Resp: 5526
Ion Ratio Lower Upper
56 100
69 104.8 27.8 41.8#
84 181.6 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 47.965 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

Tgt Ion: 65 Resp: 143220
Ion Ratio Lower Upper
65 100
67 52.7 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VN074271.D

Acq: 02 Sep 2022 03:43

Instrument :

MSVOA_N

ClientSampleId :

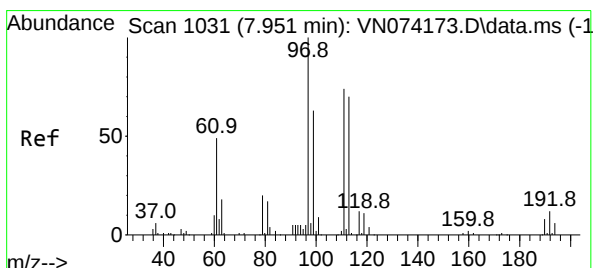
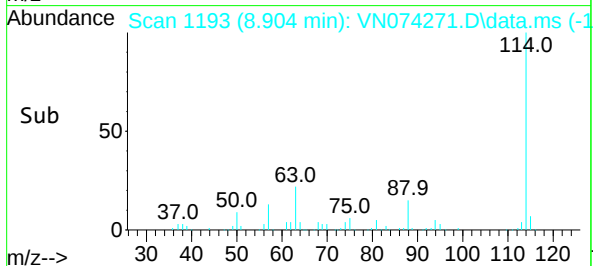
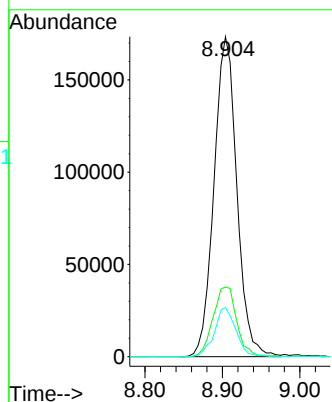
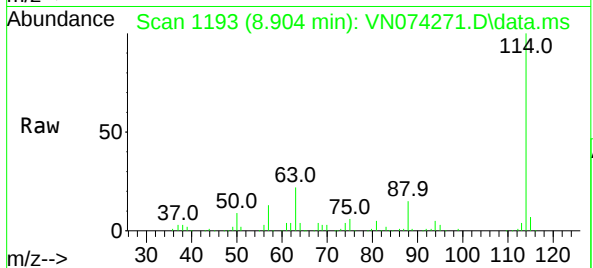
Tgt Ion:114 Resp: 354939

Ion Ratio Lower Upper

114 100

63 21.8 0.0 40.0

88 15.4 0.0 32.6



#35

Dibromofluoromethane

Concen: 51.437 ug/l

RT: 7.957 min Scan# 1032

Delta R.T. 0.006 min

Lab File: VN074271.D

Acq: 02 Sep 2022 03:43

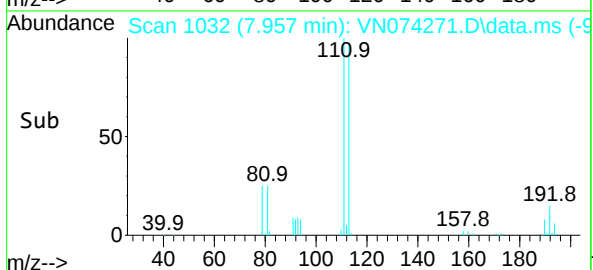
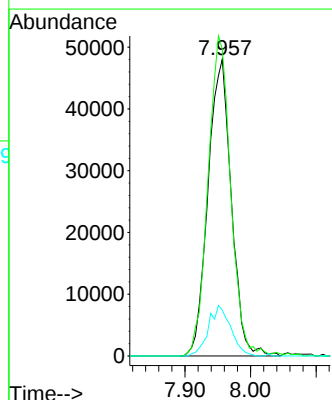
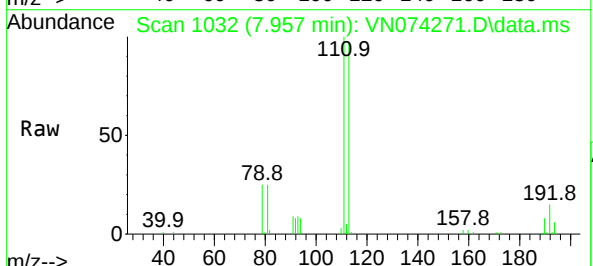
Tgt Ion:113 Resp: 118801

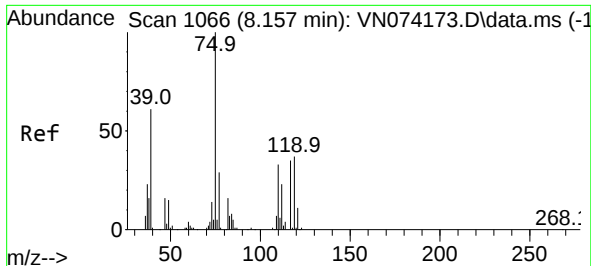
Ion Ratio Lower Upper

113 100

111 104.7 81.4 122.0

192 16.2 17.0 25.6#





#36

1,1-Dichloropropene

Concen: 4.644 ug/l

RT: 8.022 min Scan# 1043

Delta R.T. -0.135 min

Lab File: VN074271.D

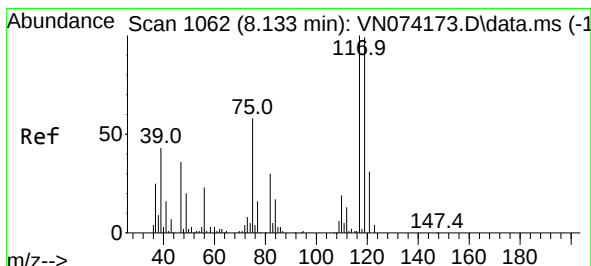
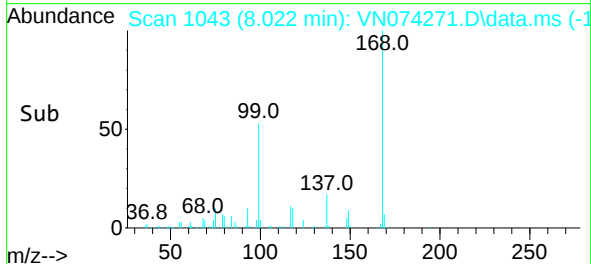
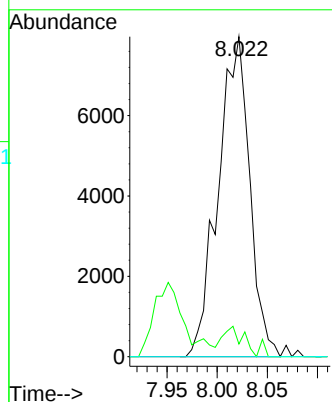
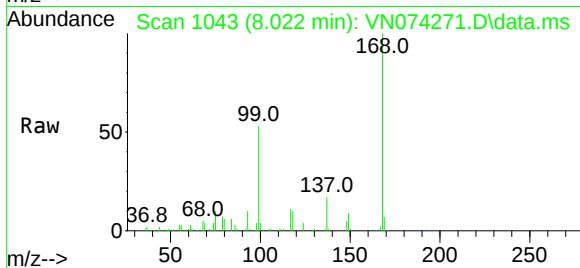
Acq: 02 Sep 2022 03:43

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	75	Resp:	17402
Ion Ratio	Lower	Upper	
75	100		
110	6.1	18.3	54.8#
77	0.0	25.1	37.7#



#38

Carbon Tetrachloride

Concen: 5.815 ug/l

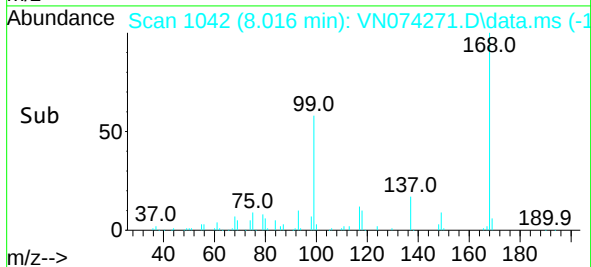
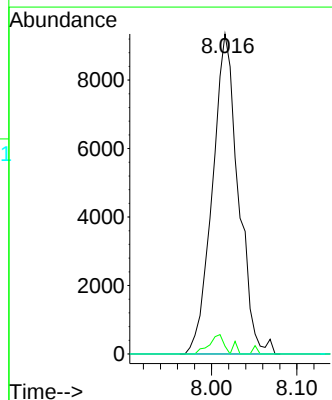
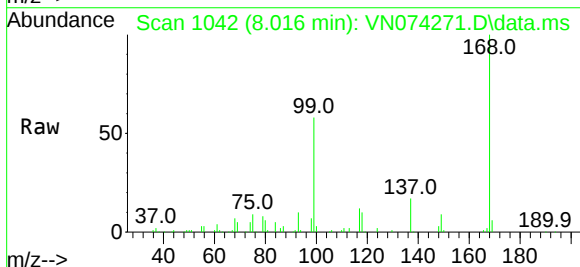
RT: 8.016 min Scan# 1042

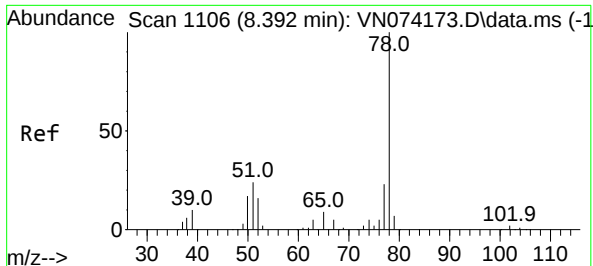
Delta R.T. -0.117 min

Lab File: VN074271.D

Acq: 02 Sep 2022 03:43

Tgt Ion:	117	Resp:	19788
Ion Ratio	Lower	Upper	
117	100		
119	2.4	75.8	113.8#
121	0.0	24.6	37.0#

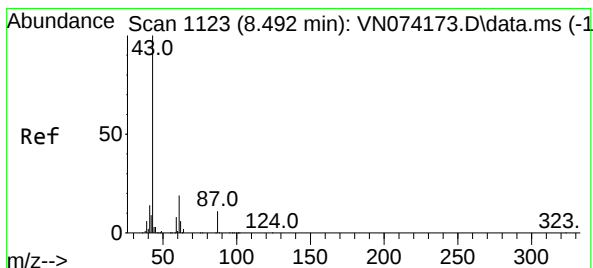
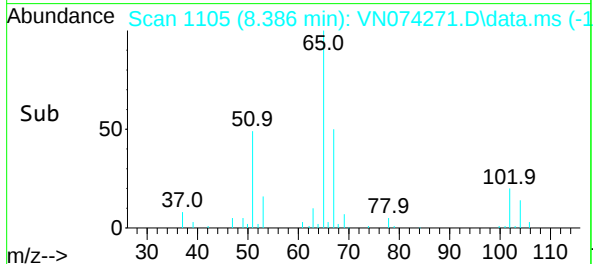
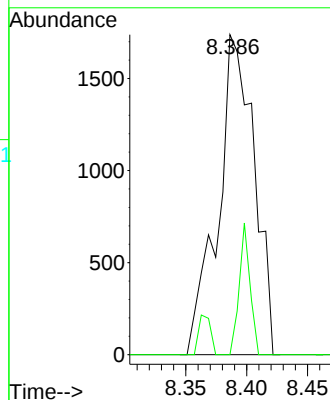
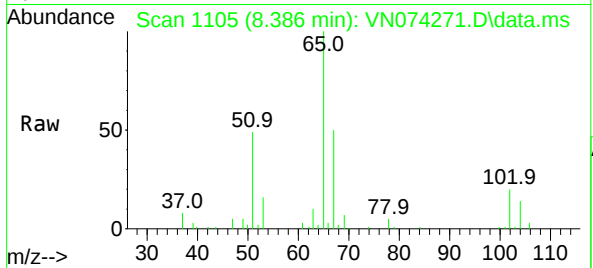




#40
Benzene
Concen: 0.305 ug/l
RT: 8.386 min Scan# 1105
Delta R.T. -0.006 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

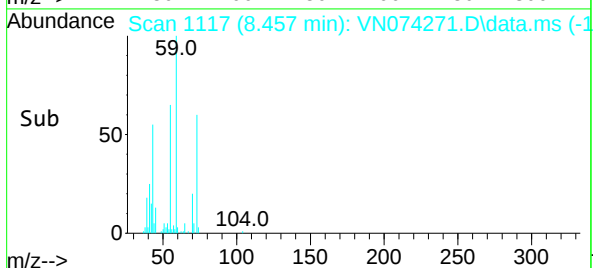
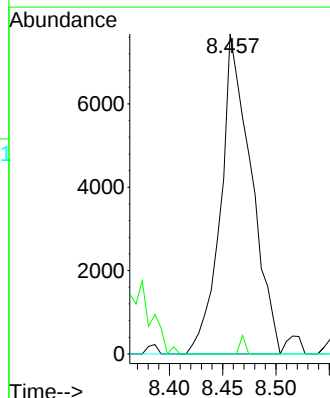
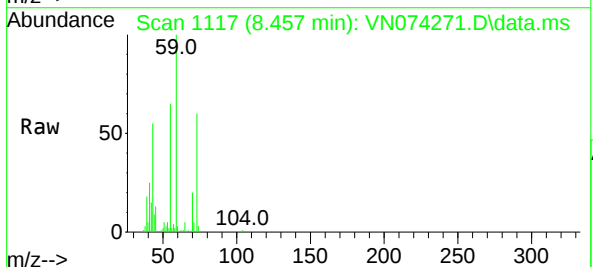
Instrument :
MSVOA_N
ClientSampleId :

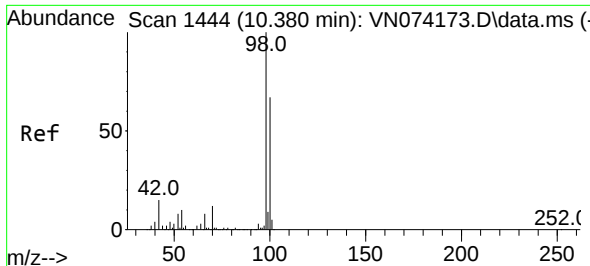
Tgt Ion: 78 Resp: 3590
Ion Ratio Lower Upper
78 100
77 0.0 19.4 29.0#



#43
Isopropyl Acetate
Concen: 1.813 ug/l
RT: 8.457 min Scan# 1117
Delta R.T. -0.035 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

Tgt Ion: 43 Resp: 15276
Ion Ratio Lower Upper
43 100
61 1.0 21.9 32.9#
87 0.0 12.0 18.0#

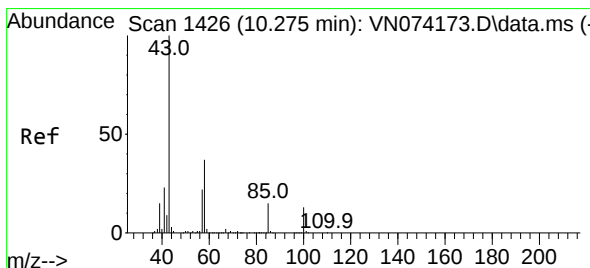
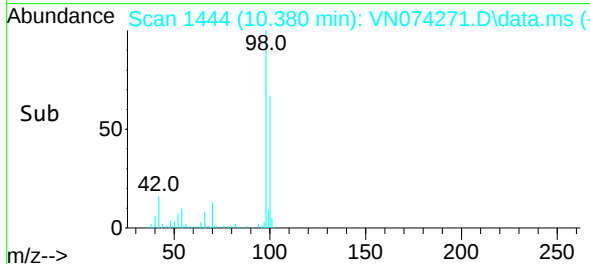
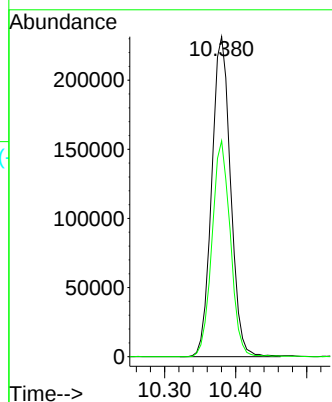
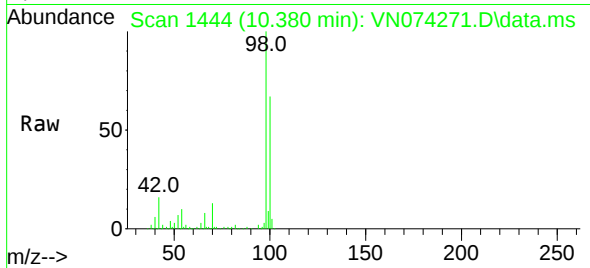




#50
Toluene-d8
Concen: 46.858 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

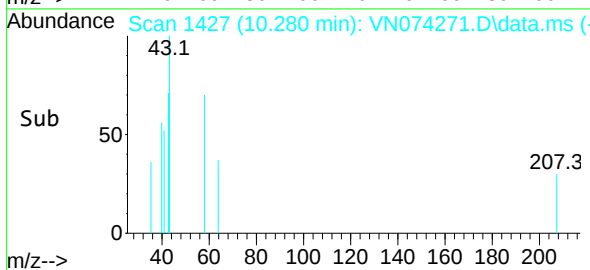
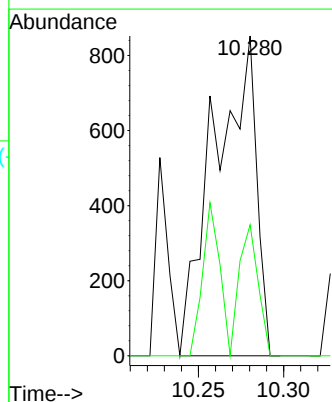
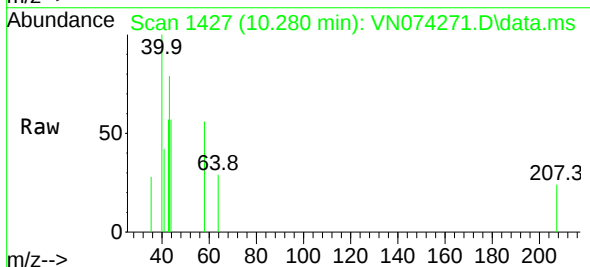
Instrument :
MSVOA_N
ClientSampleId :

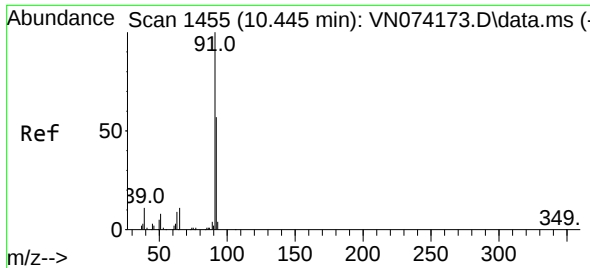
Tgt Ion: 98 Resp: 426211
Ion Ratio Lower Upper
98 100
100 65.7 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 0.238 ug/l
RT: 10.280 min Scan# 1427
Delta R.T. 0.006 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

Tgt Ion: 43 Resp: 1455
Ion Ratio Lower Upper
43 100
58 18.6 34.1 51.1#

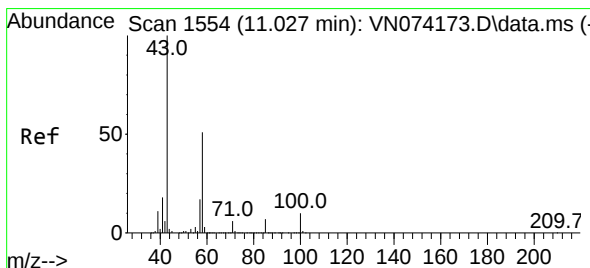
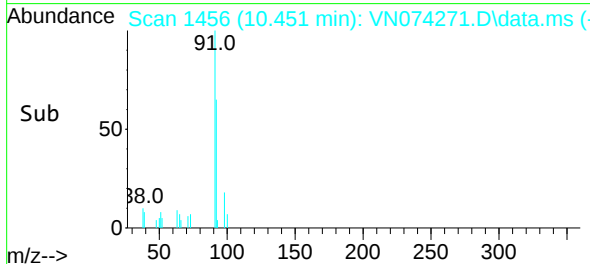
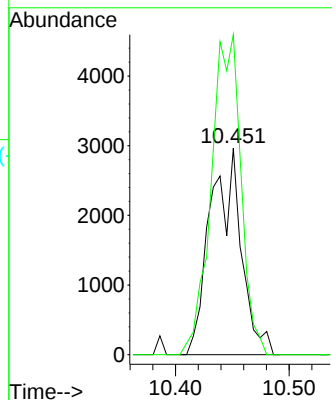
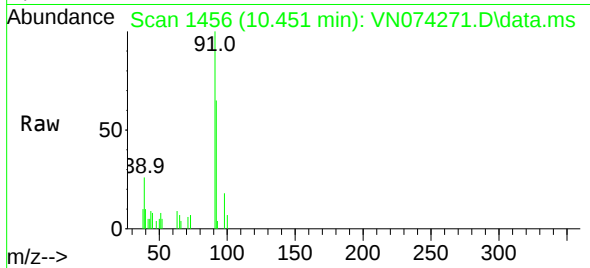




#52
Toluene
Concen: 0.809 ug/l
RT: 10.451 min Scan# 1455
Delta R.T. 0.006 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

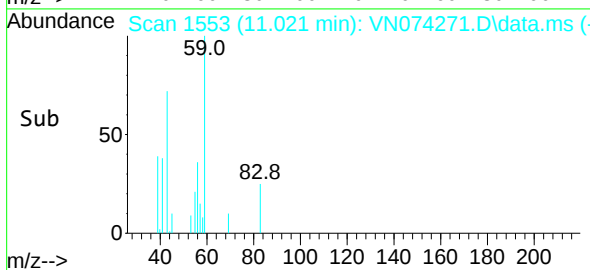
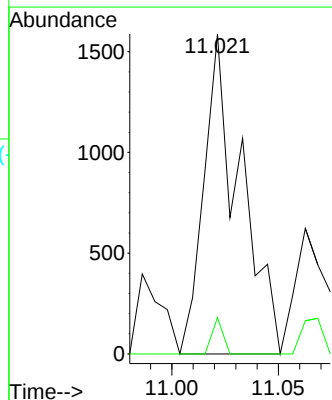
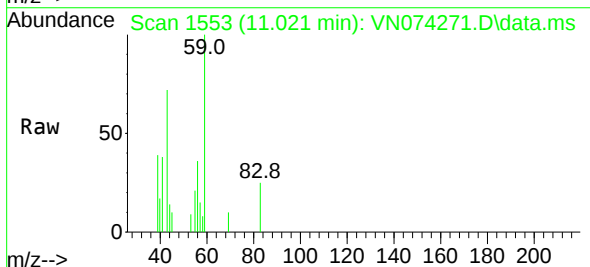
Instrument :
MSVOA_N
ClientSampleId :

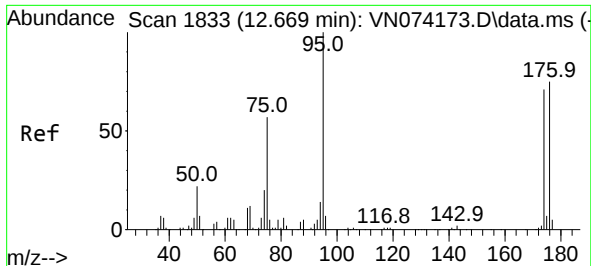
Tgt Ion: 92 Resp: 5612
Ion Ratio Lower Upper
92 100
91 149.2 138.6 207.8



#59
2-Hexanone
Concen: 0.407 ug/l
RT: 11.021 min Scan# 1553
Delta R.T. -0.006 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

Tgt Ion: 43 Resp: 1889
Ion Ratio Lower Upper
43 100
58 3.3 29.7 89.1#

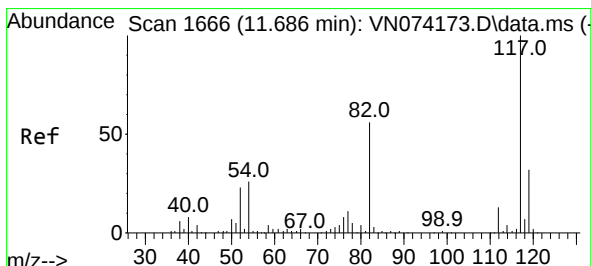
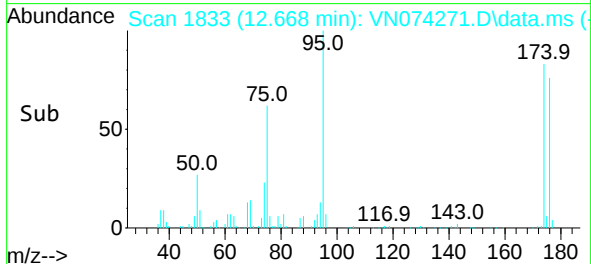
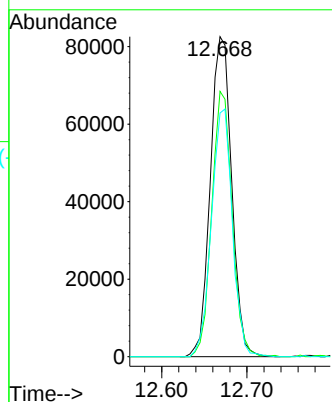
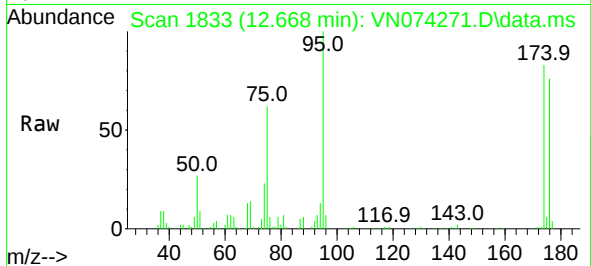




#62
4-Bromofluorobenzene
Concen: 52.107 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

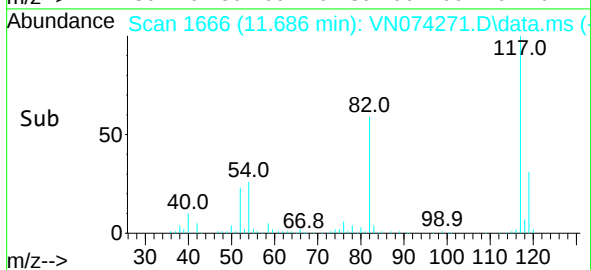
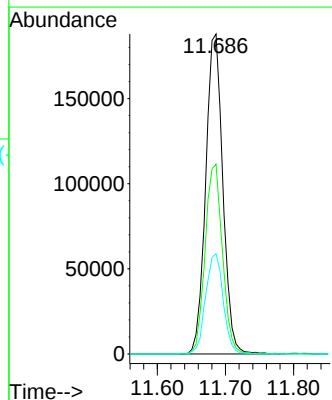
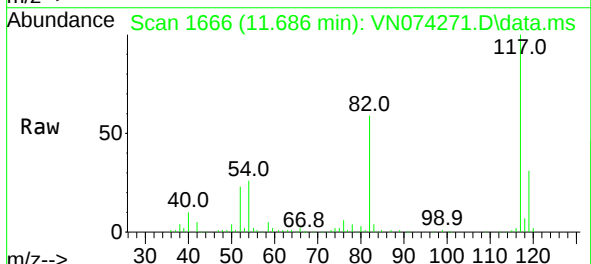
Instrument :
MSVOA_N
ClientSampleId :

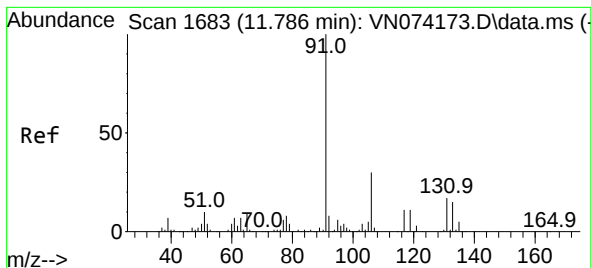
Tgt Ion: 95 Resp: 144131
Ion Ratio Lower Upper
95 100
174 79.2 0.0 167.6
176 75.8 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. -0.000 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

Tgt Ion: 117 Resp: 329415
Ion Ratio Lower Upper
117 100
82 59.3 44.2 66.2
119 31.3 25.4 38.0





#67

Ethyl Benzene

Concen: 0.305 ug/l

RT: 11.780 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN074271.D

Acq: 02 Sep 2022 03:43

Instrument :

MSVOA_N

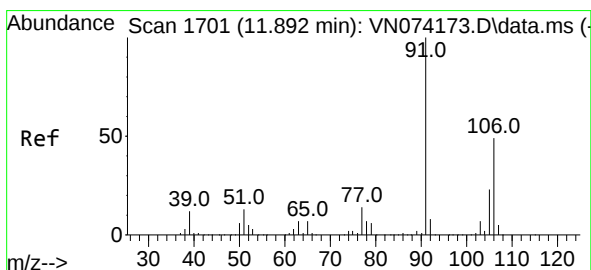
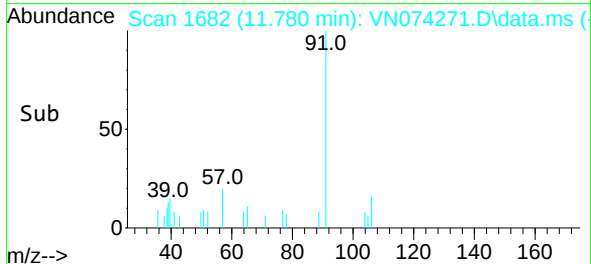
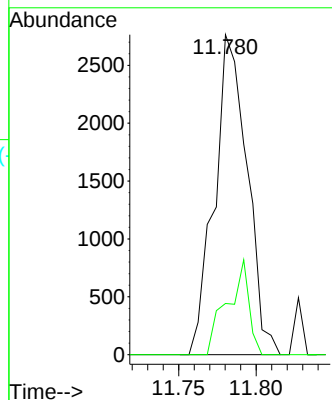
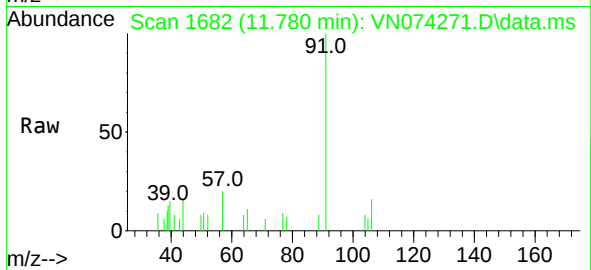
ClientSampleId :

Tgt Ion: 91 Resp: 4054

Ion Ratio Lower Upper

91 100

106 16.0 24.9 37.3#



#68

m/p-Xylenes

Concen: 0.509 ug/l

RT: 11.886 min Scan# 1700

Delta R.T. -0.006 min

Lab File: VN074271.D

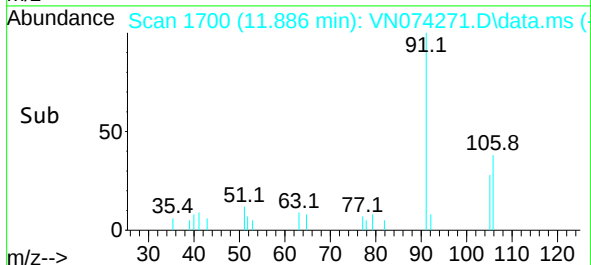
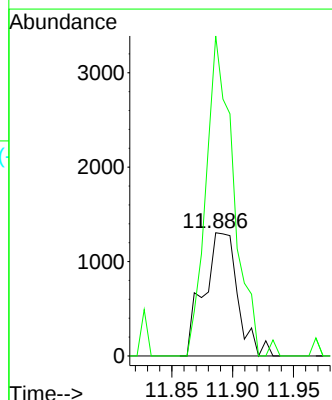
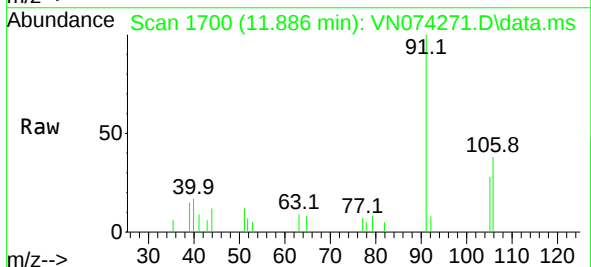
Acq: 02 Sep 2022 03:43

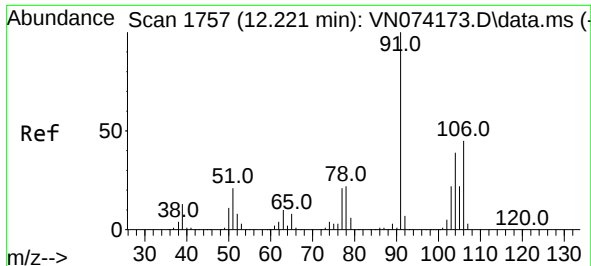
Tgt Ion:106 Resp: 2516

Ion Ratio Lower Upper

106 100

91 211.0 158.9 238.3

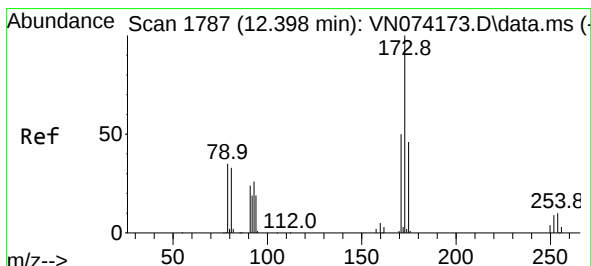
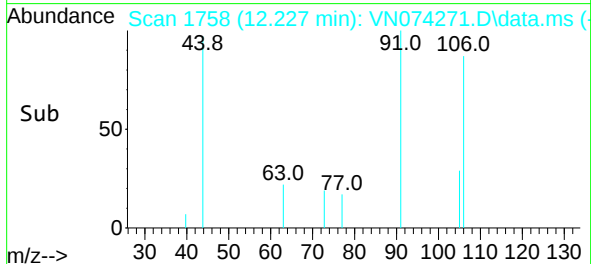
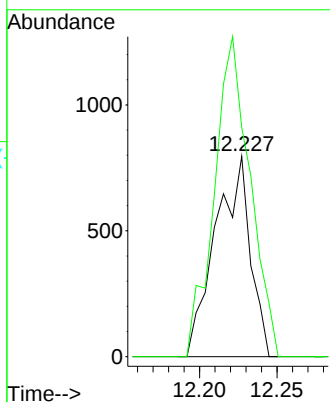
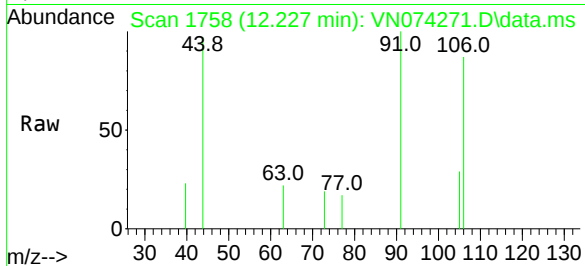




#69
o-Xylene
Concen: 0.252 ug/l
RT: 12.227 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

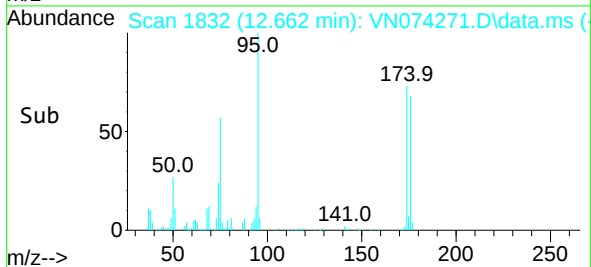
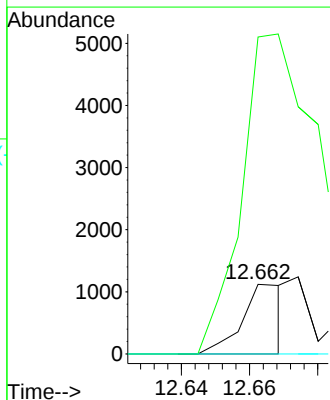
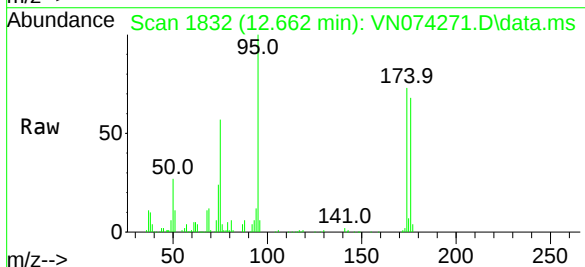
Instrument :
MSVOA_N
ClientSampleId :

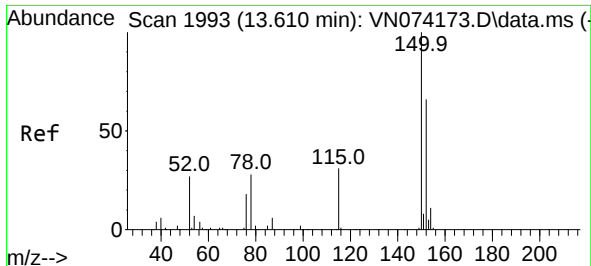
Tgt Ion:106 Resp: 1239
Ion Ratio Lower Upper
106 100
91 164.6 106.0 318.0



#71
Bromoform
Concen: 0.434 ug/l
RT: 12.662 min Scan# 1832
Delta R.T. 0.265 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

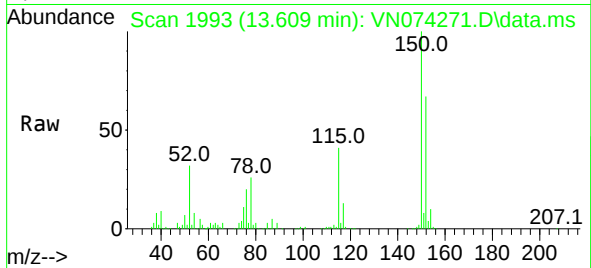
Tgt Ion:173 Resp: 969
Ion Ratio Lower Upper
173 100
175 618.7 24.6 73.6#
254 0.0 0.1 0.1#



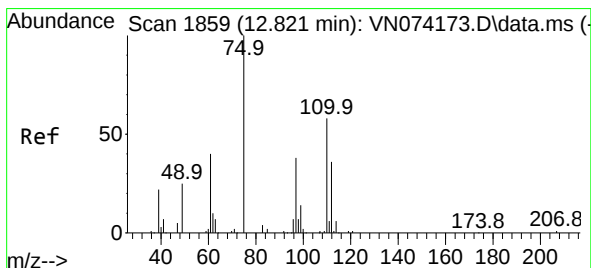
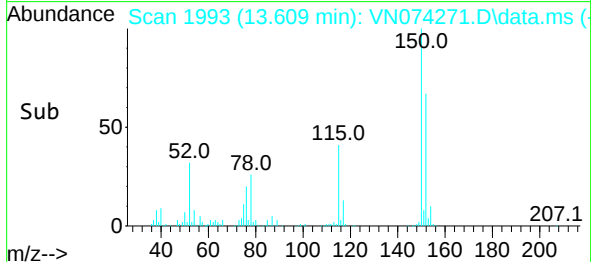
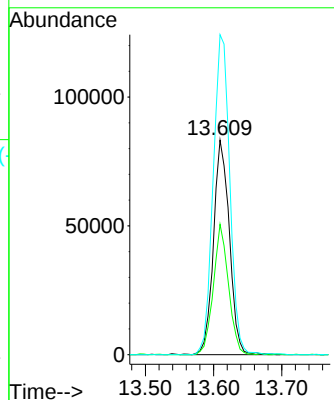


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.609 min Scan# 1993
 Delta R.T. -0.001 min
 Lab File: VN074271.D
 Acq: 02 Sep 2022 03:43

Instrument :
 MSVOA_N
 ClientSampleId :

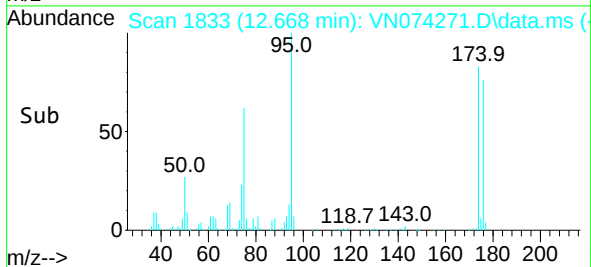
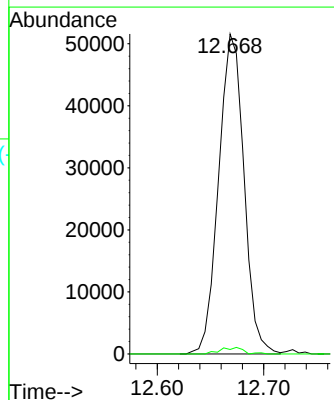
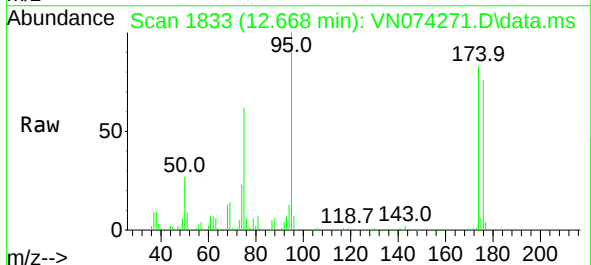


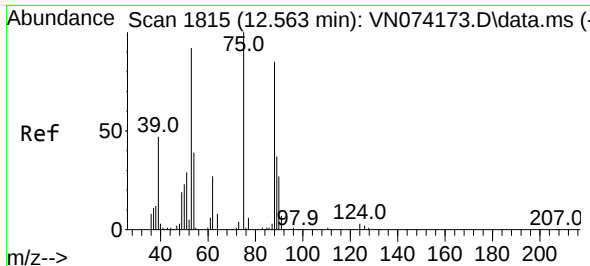
Tgt Ion:152 Resp: 135671
 Ion Ratio Lower Upper
 152 100
 115 57.8 28.9 86.7
 150 155.4 0.0 356.2



#76
 1,2,3-Trichloropropane
 Concen: 25.270 ug/l
 RT: 12.668 min Scan# 1833
 Delta R.T. -0.153 min
 Lab File: VN074271.D
 Acq: 02 Sep 2022 03:43

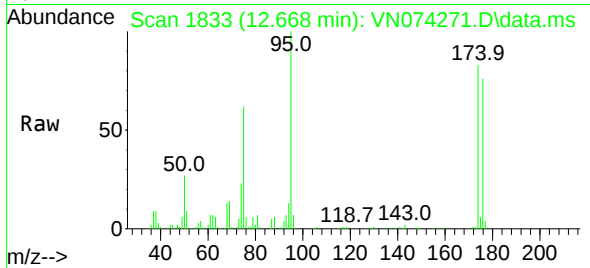
Tgt Ion: 75 Resp: 85126
 Ion Ratio Lower Upper
 75 100
 77 1.9 98.5 295.5#



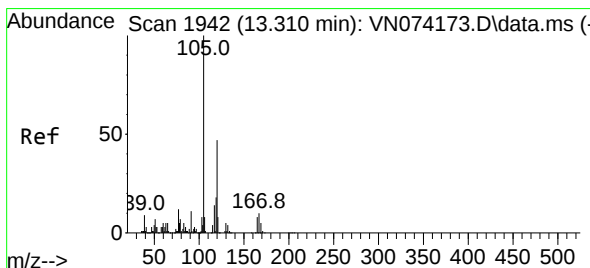
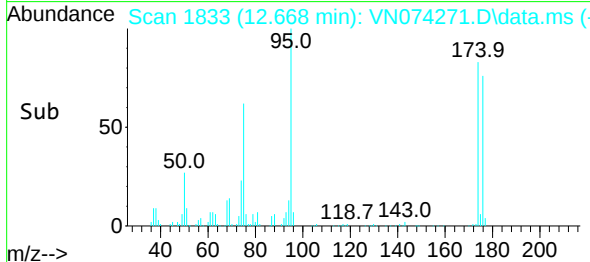
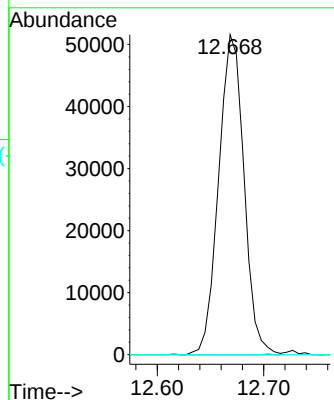


#81
trans-1,4-Dichloro-2-butene
Concen: 65.127 ug/l
RT: 12.668 min Scan# 1815
Delta R.T. 0.106 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

Instrument :
MSVOA_N
ClientSampleId :

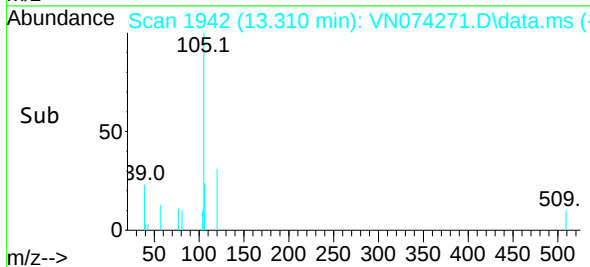
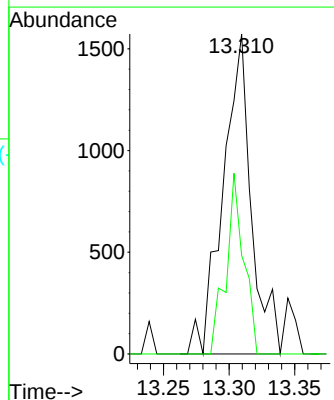
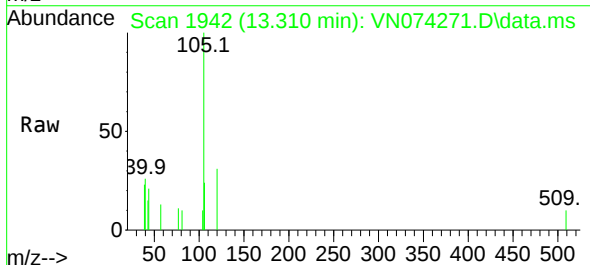


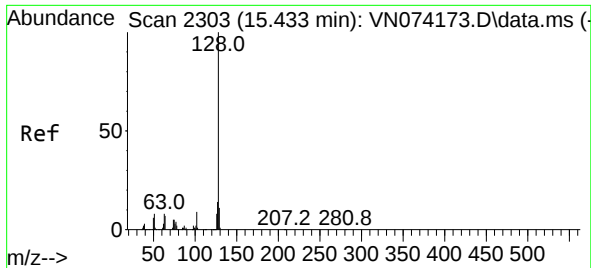
Tgt Ion: 75 Resp: 85126
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#



#84
1,2,4-Trimethylbenzene
Concen: 0.259 ug/l
RT: 13.310 min Scan# 1942
Delta R.T. -0.000 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

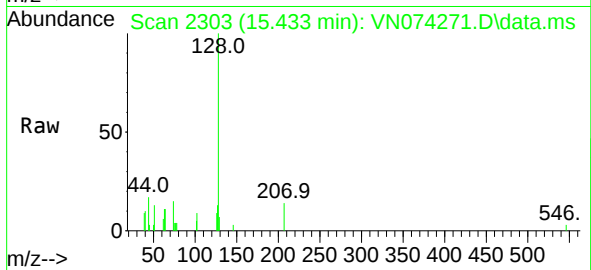
Tgt Ion: 105 Resp: 2358
Ion Ratio Lower Upper
105 100
120 35.5 23.3 69.8





#95
Naphthalene
Concen: 2.051 ug/l
RT: 15.433 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN074271.D
Acq: 02 Sep 2022 03:43

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
128	100		
127	11.8	10.3	15.5
129	6.4	8.6	13.0

