

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN123021\
 Data File : VN070420.D
 Acq On : 31 Dec 2021 1:47
 Operator : JC/MD
 Sample : M5179-02
 Misc : 5.29g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 POST-EXCAVATION-BOTTOM-EASTME

Quant Time: Dec 31 06:34:10 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122721W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 27 18:47:12 2021
 Response via : Initial Calibration

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

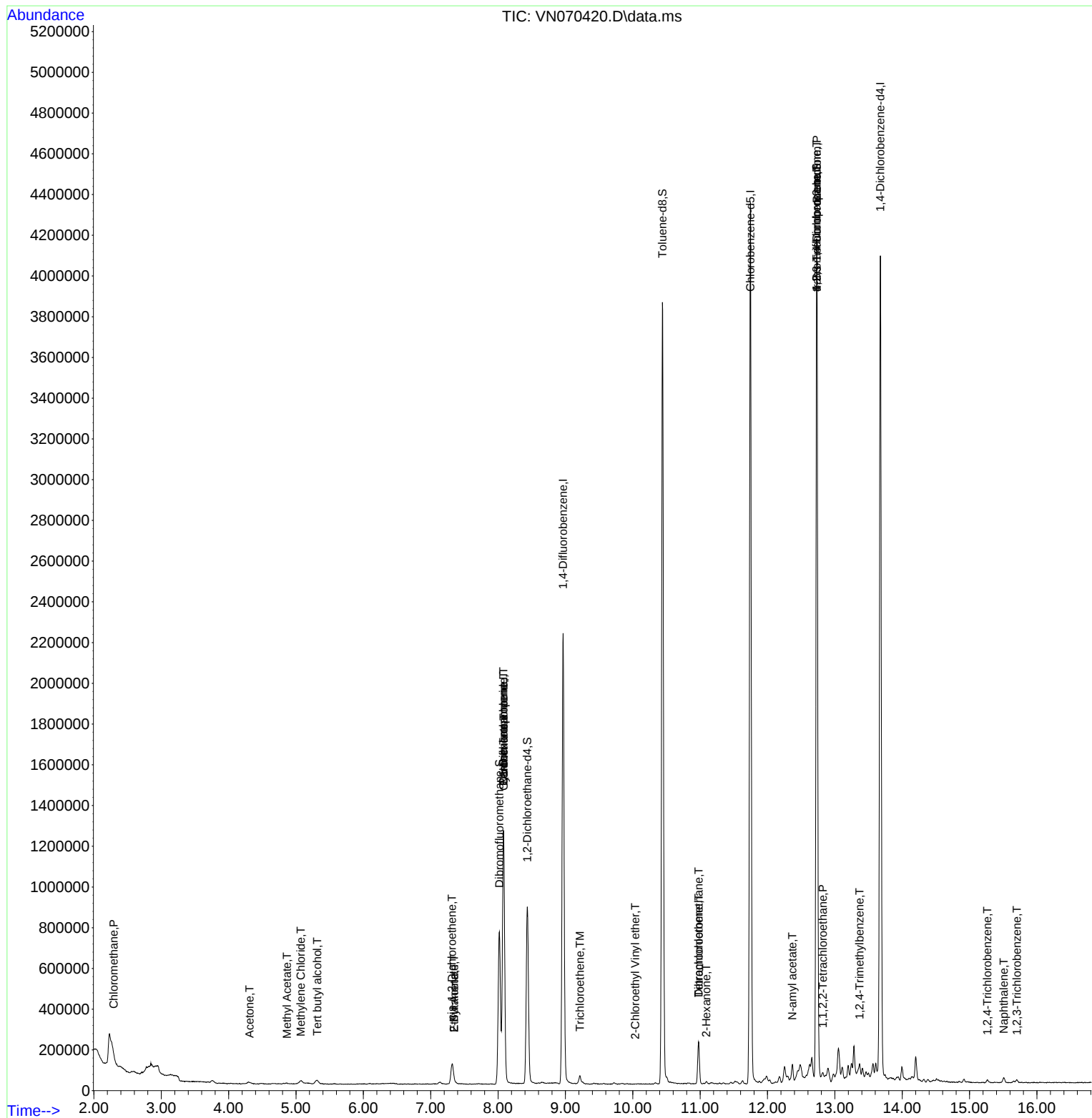
Internal Standards						
1) Pentafluorobenzene	8.080	168	957185	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.965	114	1875106	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	2419848	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	1109908	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	729818	53.029	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 106.060%	
35) Dibromofluoromethane	8.019	113	557141	49.108	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 98.220%	
50) Toluene-d8	10.440	98	2636249	56.881	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 113.760%	
62) 4-Bromofluorobenzene	12.731	95	1240390	74.100	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 148.200%#	
Target Compounds						
					Qvalue	
3) Chloromethane	2.293	50	3930	0.266	ug/l	99
11) Tert butyl alcohol	5.315	59	18902	8.249	ug/l #	71
16) Acetone	4.312	43	9602	1.075	ug/l	100
18) Methyl Acetate	4.867	43	8446	0.327	ug/l #	62
20) Methylene Chloride	5.071	84	10378	0.840	ug/l	87
25) 2-Butanone	7.348	43	17914	1.592	ug/l #	85
27) cis-1,2-Dichloroethene	7.316	96	57754	4.689	ug/l	98
31) Cyclohexane	8.083	56	22895	1.054	ug/l #	16
36) 1,1-Dichloropropene	8.080	75	78311	4.173	ug/l #	49
37) Ethyl Acetate	7.348	43	17914	0.736	ug/l #	68
38) Carbon Tetrachloride	8.080	117	94170	5.255	ug/l #	16
44) Trichloroethene	9.215	130	13093	0.958	ug/l	89
58) 2-Chloroethyl Vinyl ether	10.038	63	114	18.531	ug/l #	45
59) 2-Hexanone	11.092	43	6352	0.361	ug/l	80
60) Dibromochloromethane	10.977	129	47082	3.502	ug/l #	11
64) Tetrachloroethene	10.977	164	48176	2.749	ug/l	96
71) Bromoform	12.734	173	7561	0.556	ug/l #	1
74) N-amyl acetate	12.369	43	19289	0.445	ug/l #	75
75) 1,1,2,2-Tetrachloroethane	12.822	83	1016	0.474	ug/l #	1
76) 1,2,3-Trichloropropane	12.731	75	671630	22.056	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	671630	73.932	ug/l #	5
84) 1,2,4-Trimethylbenzene	13.367	105	38047	0.478	ug/l	96
93) 1,2,4-Trichlorobenzene	15.265	180	4759	0.260	ug/l	94
95) Naphthalene	15.507	128	24215	2.259	ug/l	99
96) 1,2,3-Trichlorobenzene	15.703	180	5478	1.134	ug/l	93

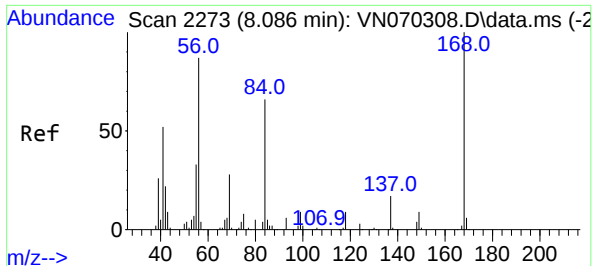
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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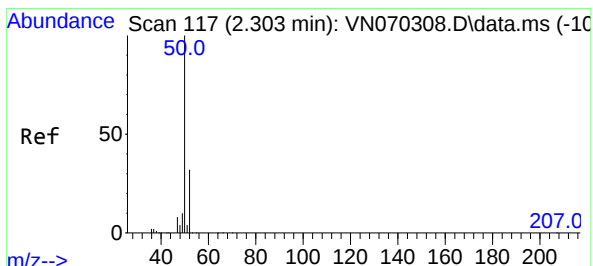
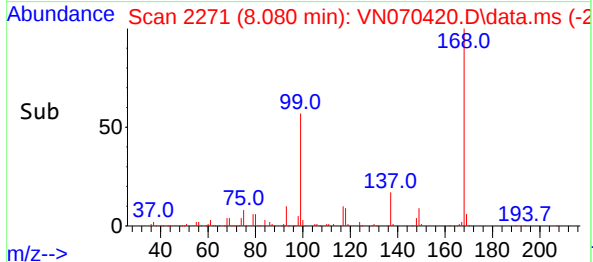
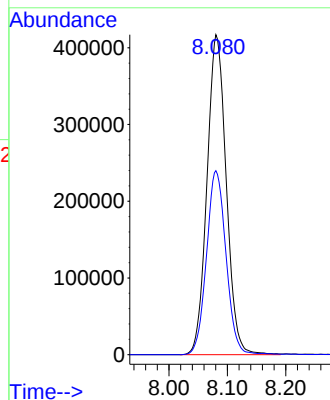
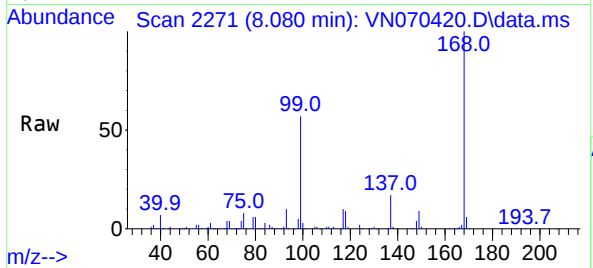




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.080 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

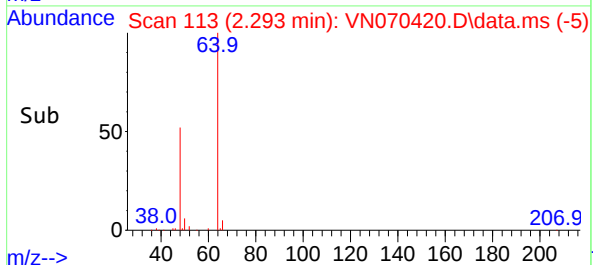
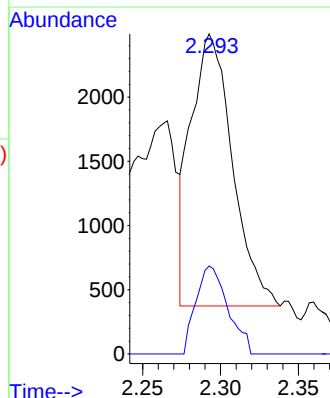
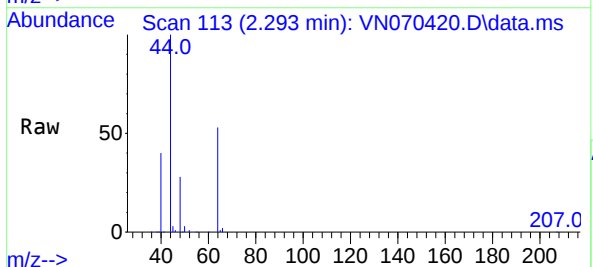
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MSVOA_N
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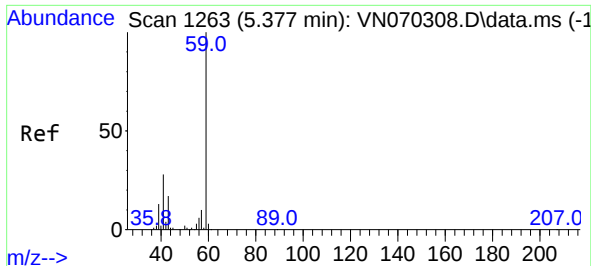
Tgt Ion:168 Resp: 957185
Ion Ratio Lower Upper
168 100
99 57.5 41.3 61.9



#3
Chloromethane
Concen: 0.266 ug/l
RT: 2.293 min Scan# 113
Delta R.T. -0.010 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

Tgt Ion: 50 Resp: 3930
Ion Ratio Lower Upper
50 100
52 32.3 25.4 38.0

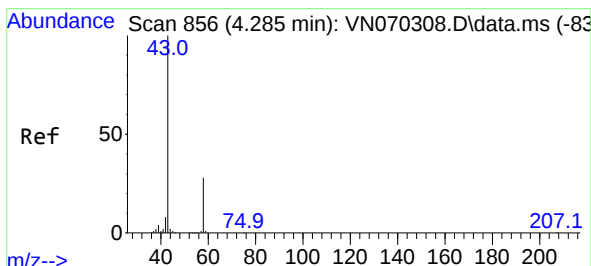
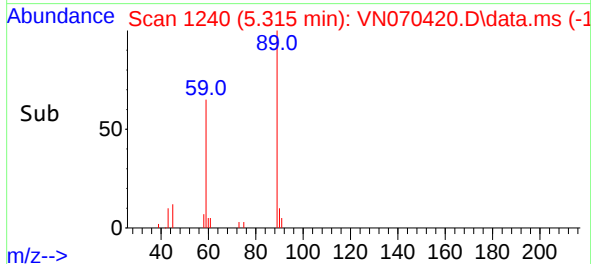
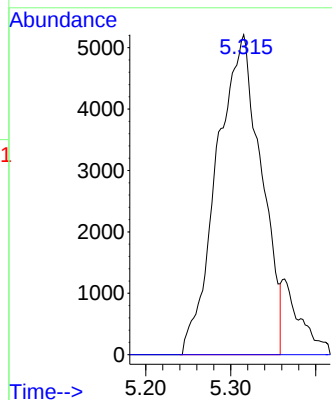
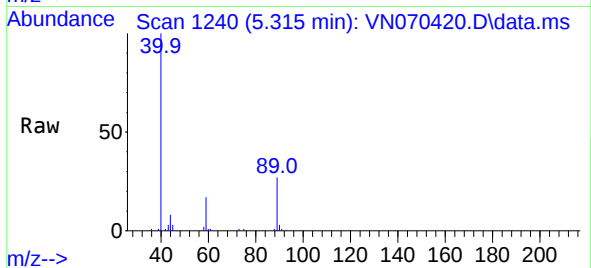




#11
Tert butyl alcohol
Concen: 8.249 ug/l
RT: 5.315 min Scan# 11
Delta R.T. -0.062 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

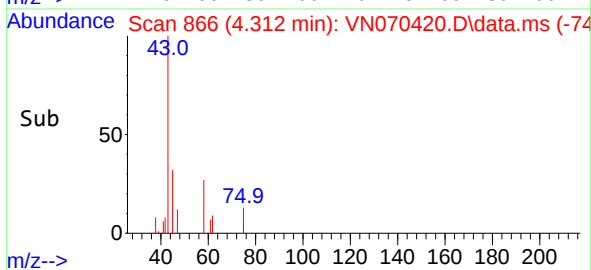
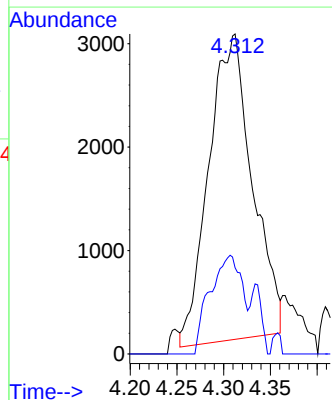
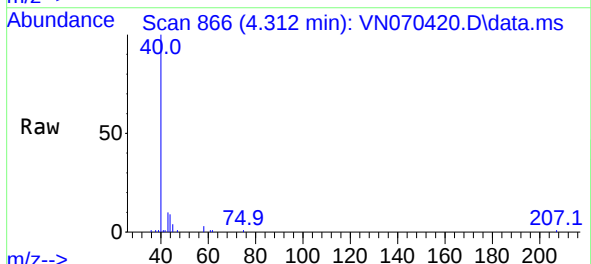
Instrument :
MSVOA_N
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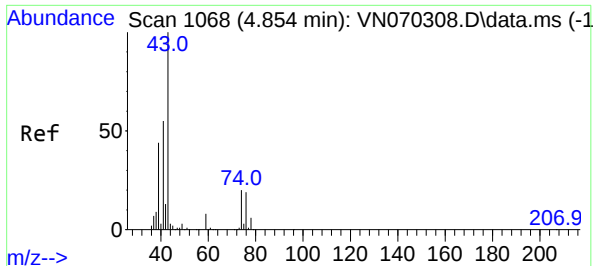
Tgt Ion: 59 Resp: 18902
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#16
Acetone
Concen: 1.075 ug/l
RT: 4.312 min Scan# 866
Delta R.T. 0.027 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

Tgt Ion: 43 Resp: 9602
Ion Ratio Lower Upper
43 100
58 28.8 23.1 34.7





#18

Methyl Acetate

Concen: 0.327 ug/l

RT: 4.867 min Scan# 1149

Delta R.T. 0.013 min

Lab File: VN070420.D

Acq: 31 Dec 2021 1:47

Instrument :

MSVOA_N

ClientSampleId :

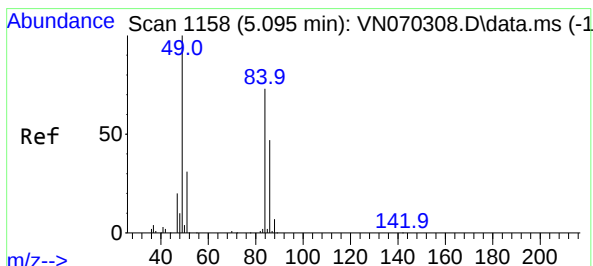
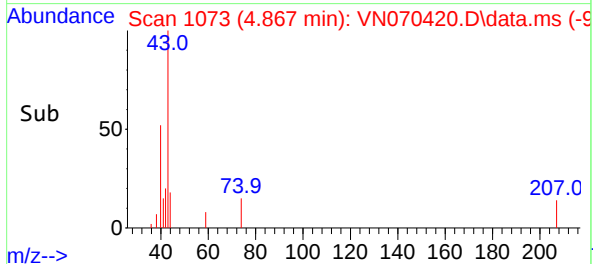
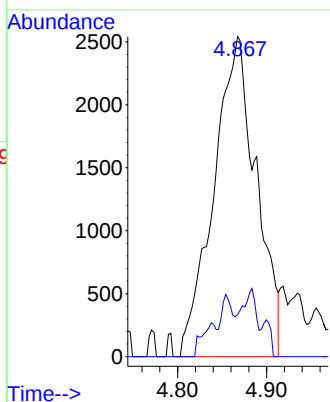
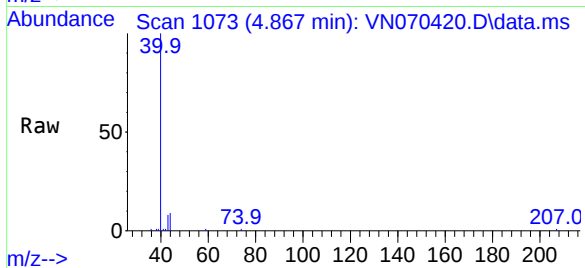
POST-EXCAVATION-BOTTOM-EASTME

Tgt Ion: 43 Resp: 8446

Ion Ratio Lower Upper

43 100

74 5.6 19.4 29.2#



#20

Methylene Chloride

Concen: 0.840 ug/l

RT: 5.071 min Scan# 1149

Delta R.T. -0.024 min

Lab File: VN070420.D

Acq: 31 Dec 2021 1:47

Tgt Ion: 84 Resp: 10378

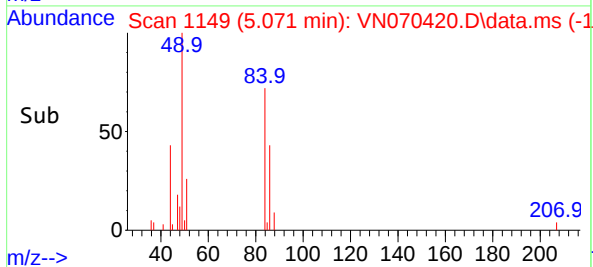
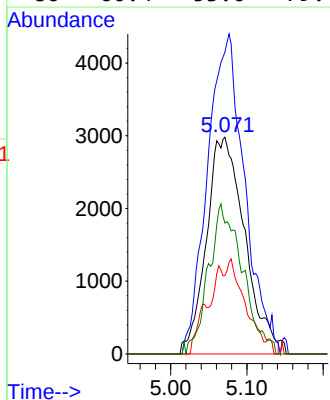
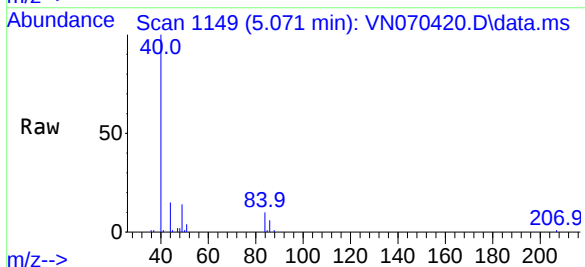
Ion Ratio Lower Upper

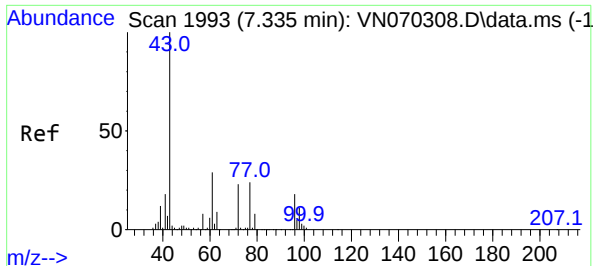
84 100

49 139.2 93.5 140.3

51 36.2 29.4 44.2

86 60.4 53.0 79.4

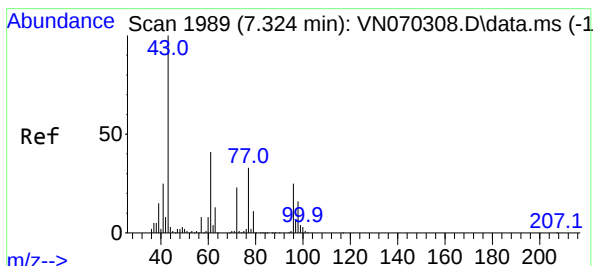
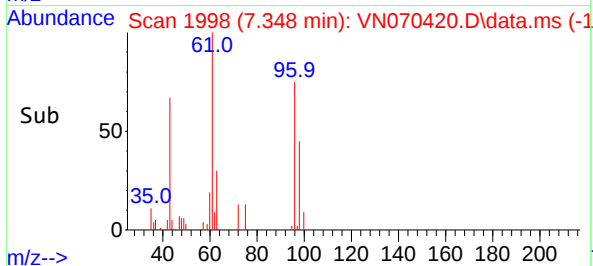
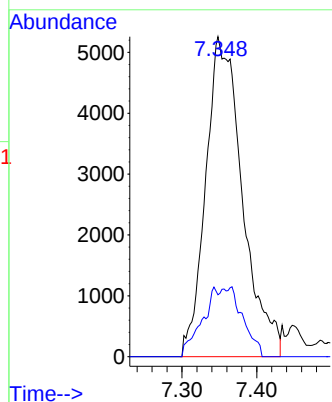
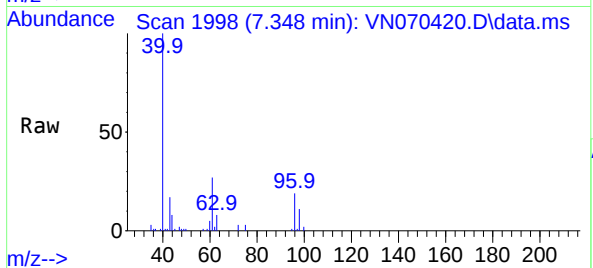




#25
2-Butanone
Concen: 1.592 ug/l
RT: 7.348 min Scan# 1998
Delta R.T. 0.013 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

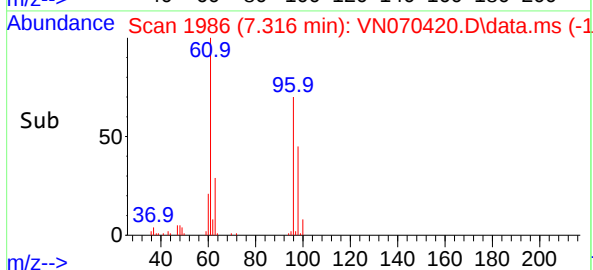
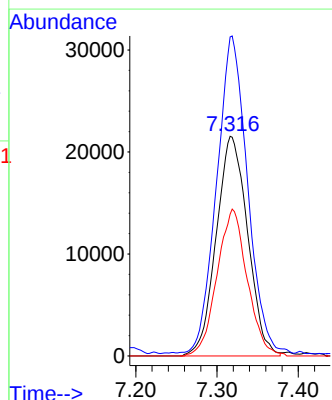
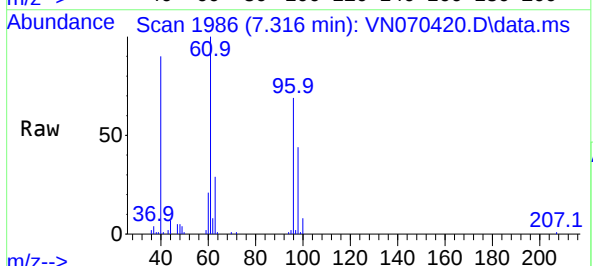
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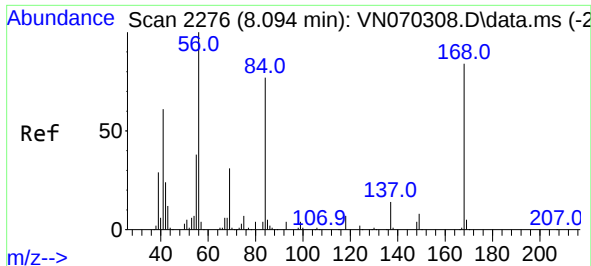
Tgt Ion: 43 Resp: 17914
Ion Ratio Lower Upper
43 100
72 19.4 21.7 32.5#



#27
cis-1,2-Dichloroethene
Concen: 4.689 ug/l
RT: 7.316 min Scan# 1986
Delta R.T. -0.008 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

Tgt Ion: 96 Resp: 57754
Ion Ratio Lower Upper
96 100
61 141.2 0.0 275.0
98 64.5 0.0 129.6

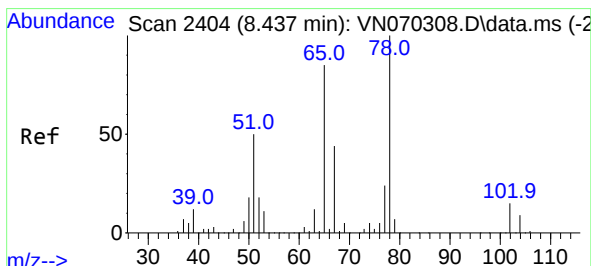
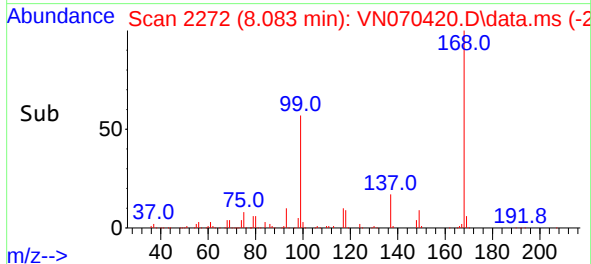
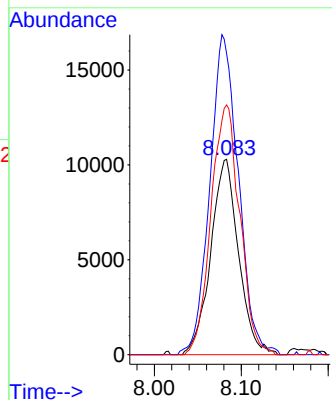
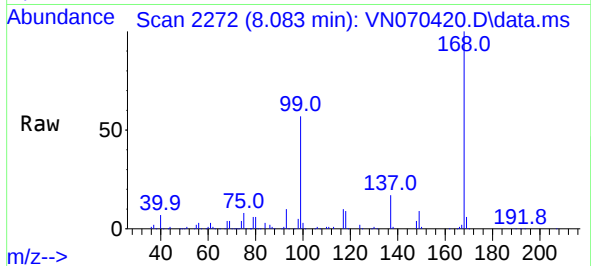




#31
Cyclohexane
Concen: 1.054 ug/l
RT: 8.083 min Scan# 21
Delta R.T. -0.011 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

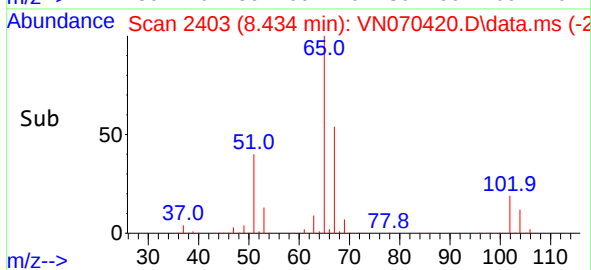
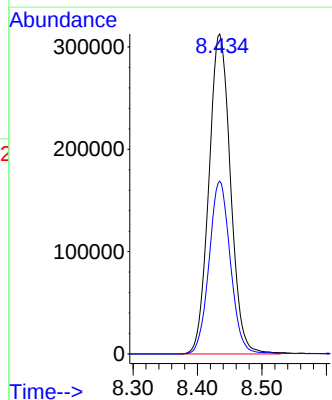
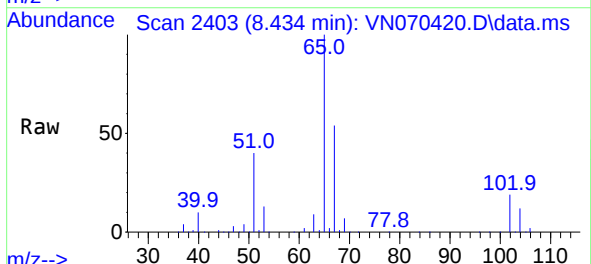
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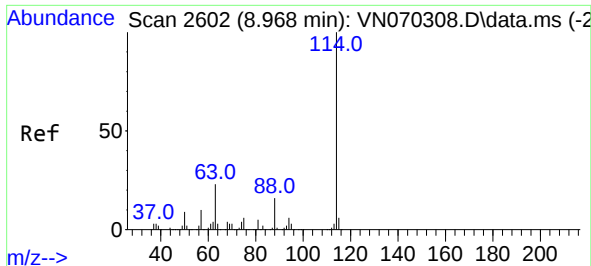
Tgt Ion: 56 Resp: 22895
Ion Ratio Lower Upper
56 100
69 154.2 27.1 40.7#
84 127.9 73.4 110.0#



#33
1,2-Dichloroethane-d4
Concen: 53.029 ug/l
RT: 8.434 min Scan# 2403
Delta R.T. -0.003 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

Tgt Ion: 65 Resp: 729818
Ion Ratio Lower Upper
65 100
67 53.2 0.0 103.0

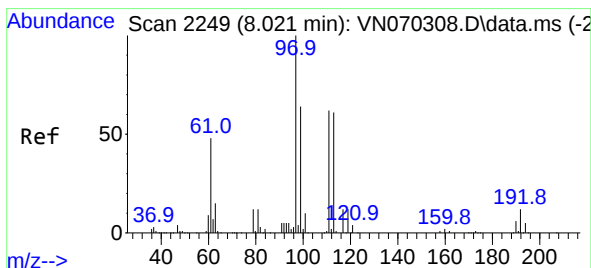
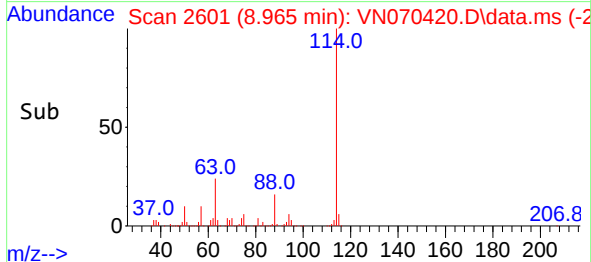
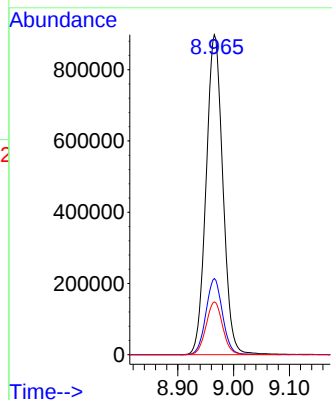
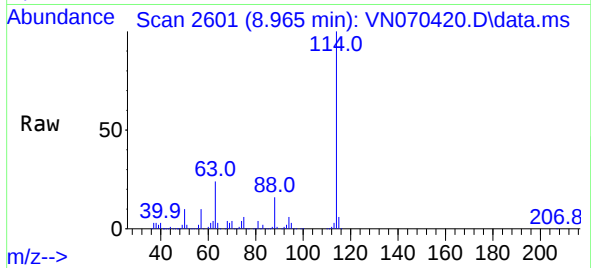




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.965 min Scan# 2061
Delta R.T. -0.003 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

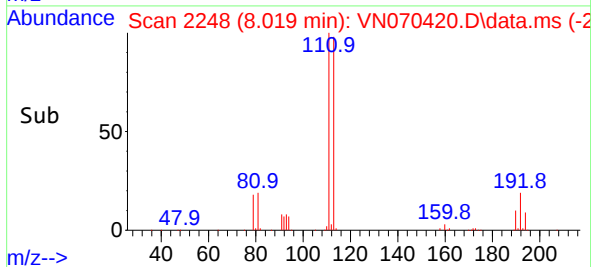
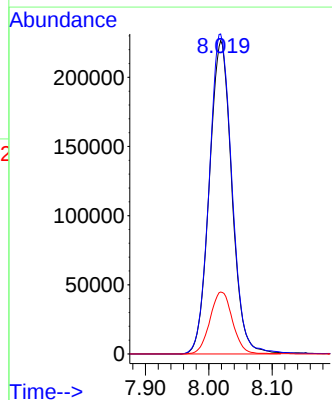
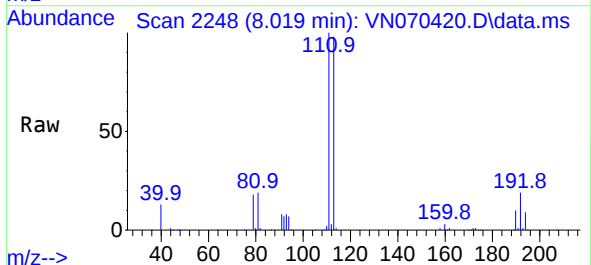
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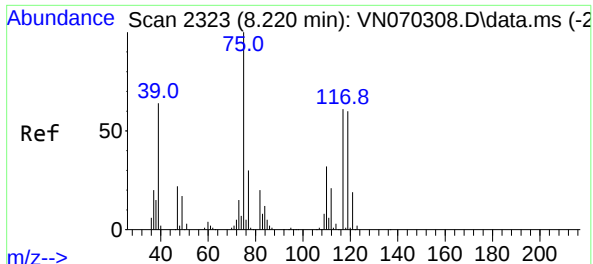
Tgt Ion:114 Resp: 1875106
Ion Ratio Lower Upper
114 100
63 23.8 0.0 37.8
88 16.5 0.0 27.4



#35
Dibromofluoromethane
Concen: 49.108 ug/l
RT: 8.019 min Scan# 2248
Delta R.T. -0.002 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

Tgt Ion:113 Resp: 557141
Ion Ratio Lower Upper
113 100
111 103.2 82.2 123.2
192 19.9 16.9 25.3





#36

1,1-Dichloropropene

Concen: 4.173 ug/l

RT: 8.080 min Scan# 21

Delta R.T. -0.140 min

Lab File: VN070420.D

Acq: 31 Dec 2021 1:47

Instrument :

MSVOA_N

ClientSampleId :

POST-EXCAVATION-BOTTOM-EASTME

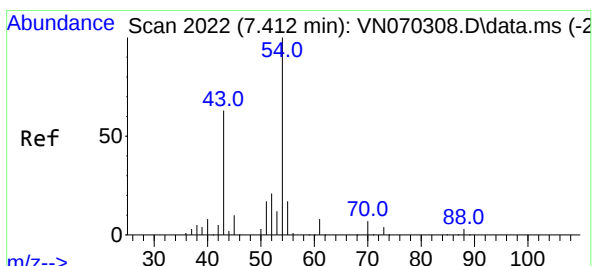
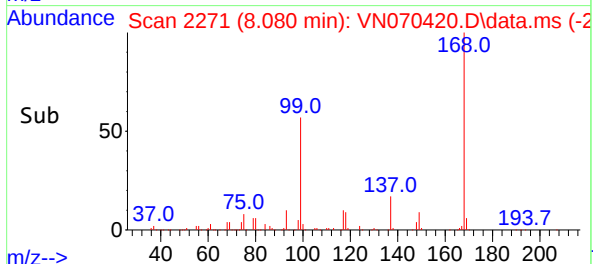
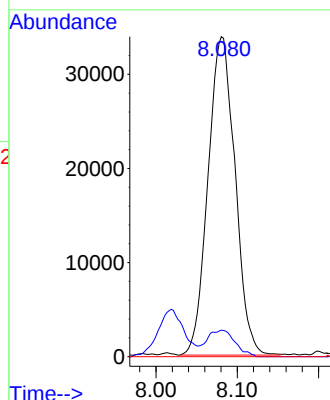
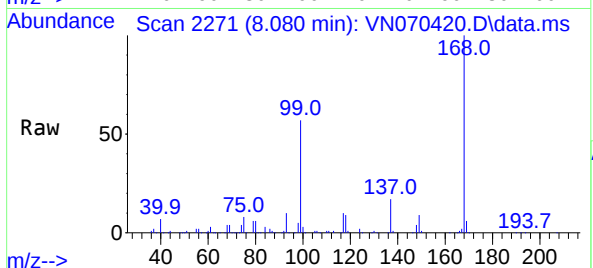
Tgt Ion: 75 Resp: 78311

Ion Ratio Lower Upper

75 100

110 8.6 18.4 55.2#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 0.736 ug/l

RT: 7.348 min Scan# 1998

Delta R.T. -0.064 min

Lab File: VN070420.D

Acq: 31 Dec 2021 1:47

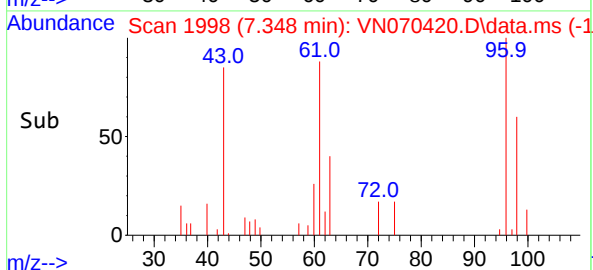
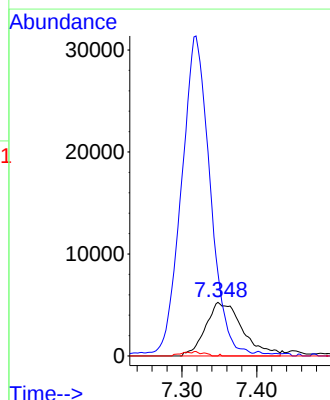
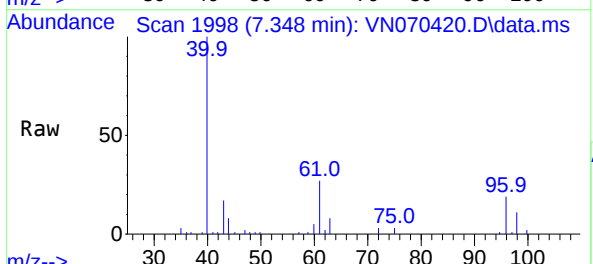
Tgt Ion: 43 Resp: 17914

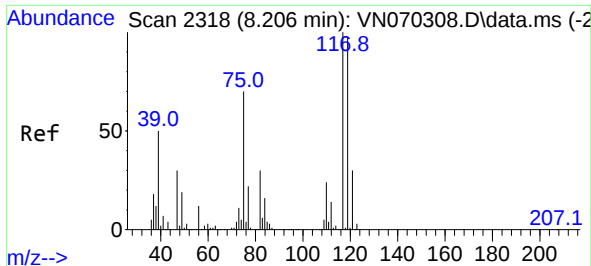
Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

70 0.2 7.9 11.9#

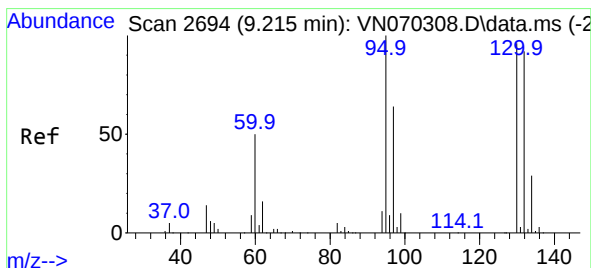
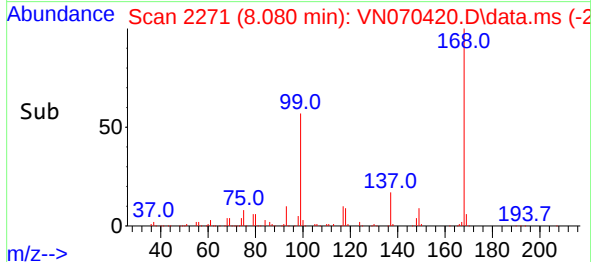
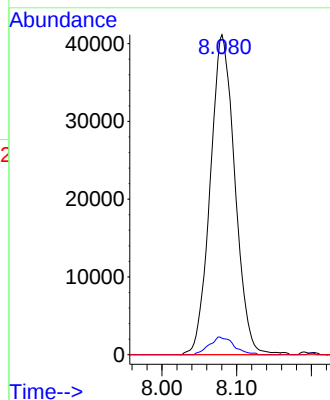
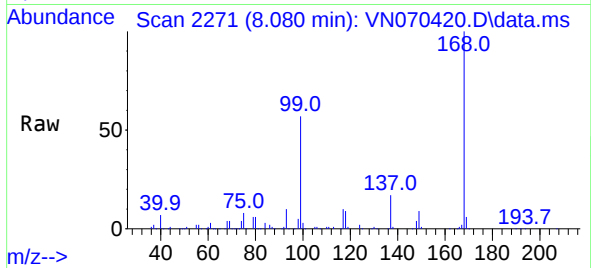




#38
Carbon Tetrachloride
Concen: 5.255 ug/l
RT: 8.080 min Scan# 2117
Delta R.T. -0.126 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

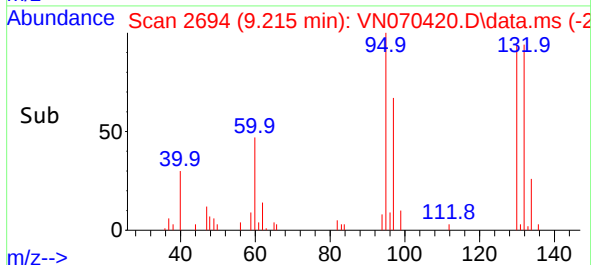
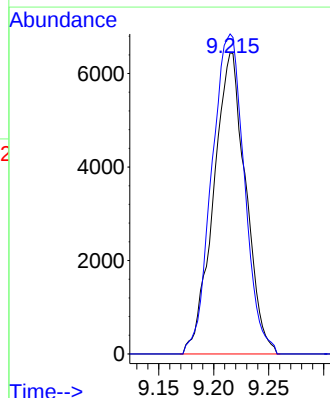
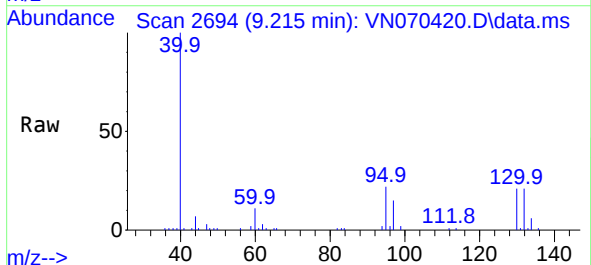
Instrument : MSVOA_N
ClientSampleId : POST-EXCAVATION-BOTTOM-EASTME

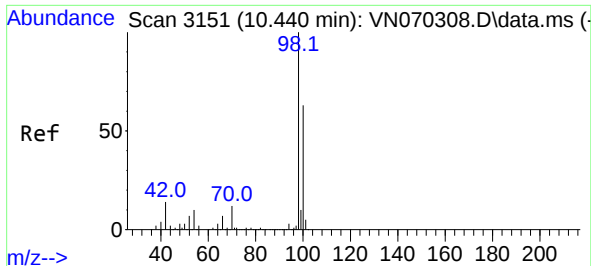
Tgt Ion:117 Resp: 94170
Ion Ratio Lower Upper
117 100
119 5.1 76.1 114.1#
121 0.0 24.2 36.2#



#44
Trichloroethene
Concen: 0.958 ug/l
RT: 9.215 min Scan# 2694
Delta R.T. -0.000 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

Tgt Ion:130 Resp: 13093
Ion Ratio Lower Upper
130 100
95 106.2 0.0 191.2

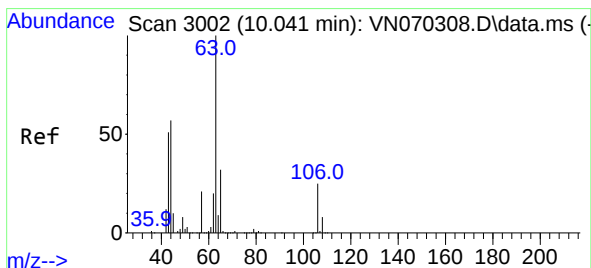
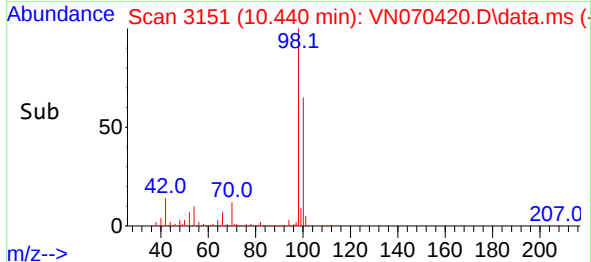
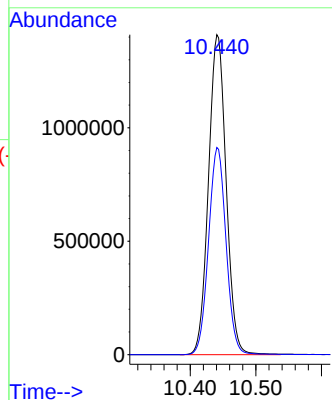
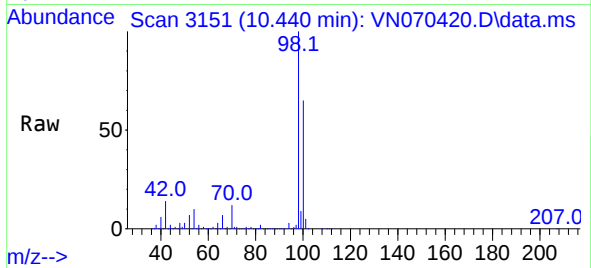




#50
Toluene-d8
Concen: 56.881 ug/l
RT: 10.440 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

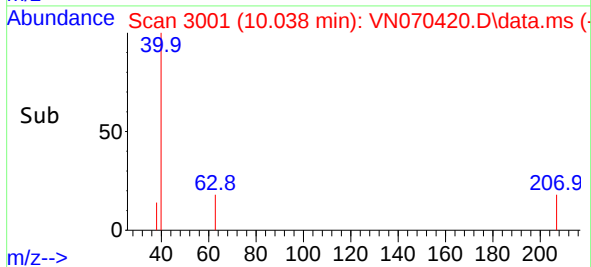
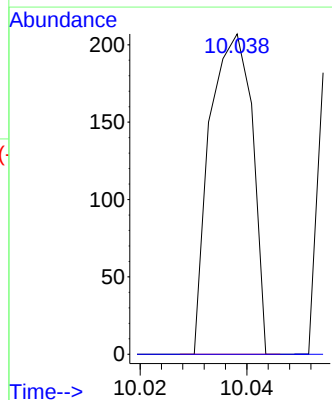
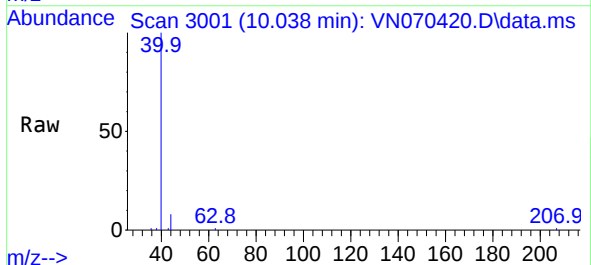
Instrument : MSVOA_N
ClientSampleId : POST-EXCAVATION-BOTTOM-EASTME

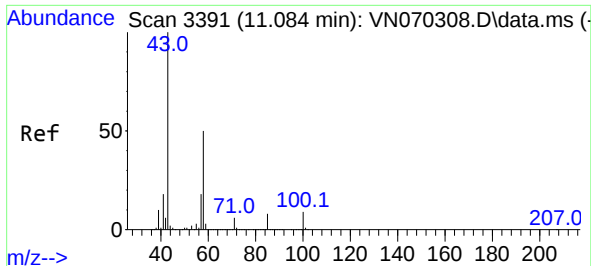
Tgt Ion: 98 Resp: 2636249
Ion Ratio Lower Upper
98 100
100 64.3 50.4 75.6



#58
2-Chloroethyl Vinyl ether
Concen: 18.531 ug/l
RT: 10.038 min Scan# 3001
Delta R.T. -0.003 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

Tgt Ion: 63 Resp: 114
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

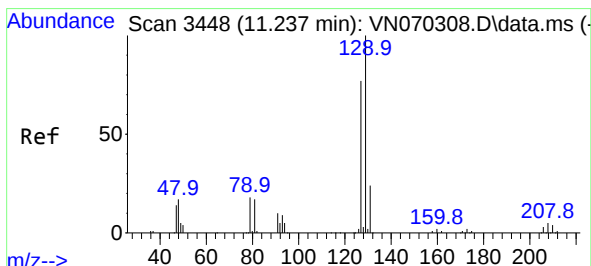
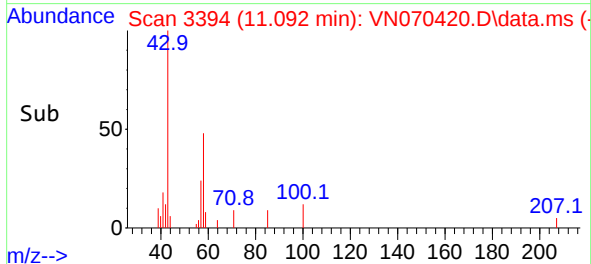
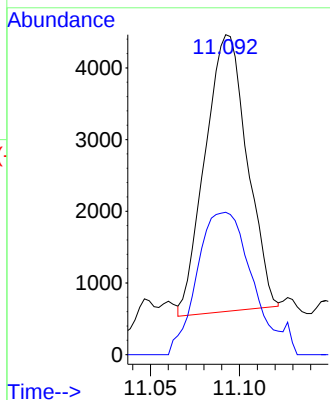
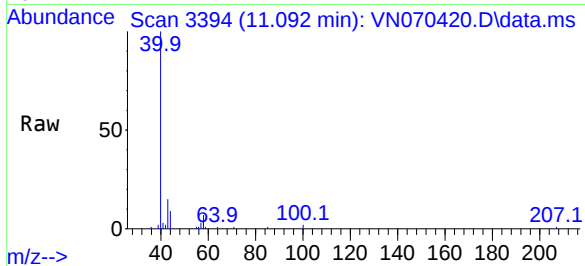




#59
2-Hexanone
Concen: 0.361 ug/l
RT: 11.092 min Scan# 31
Delta R.T. 0.008 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

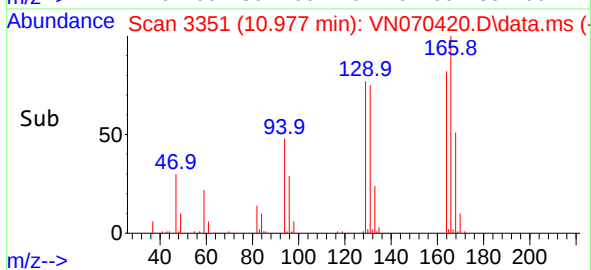
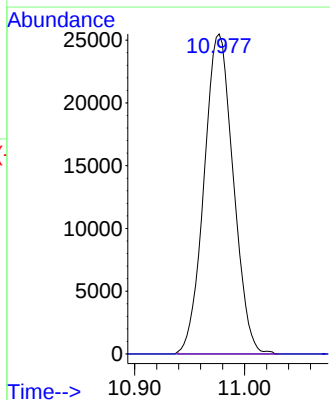
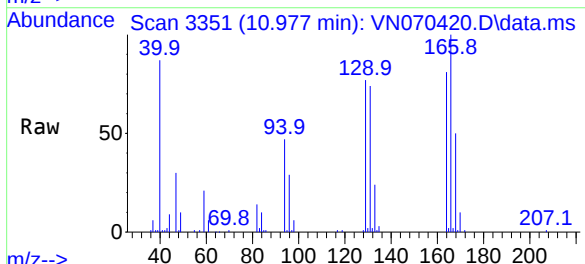
Instrument :
MSVOA_N
ClientSampleId :
POST-EXCAVATION-BOTTOM-EASTME

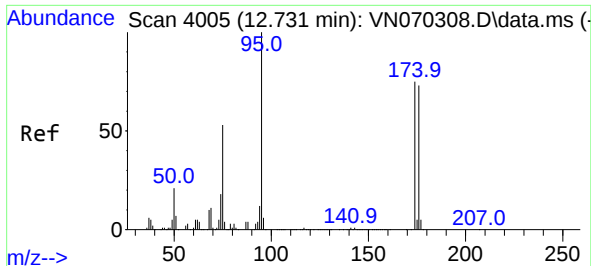
Tgt Ion: 43 Resp: 6352
Ion Ratio Lower Upper
43 100
58 67.9 26.9 80.7



#60
Dibromochloromethane
Concen: 3.502 ug/l
RT: 10.977 min Scan# 3351
Delta R.T. -0.260 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

Tgt Ion: 129 Resp: 47082
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

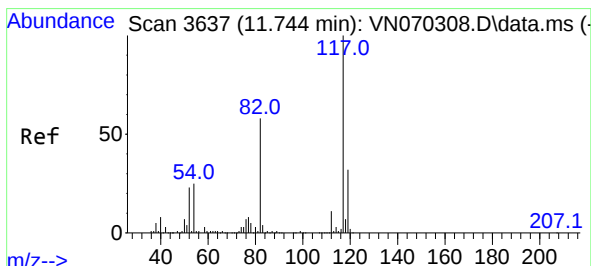
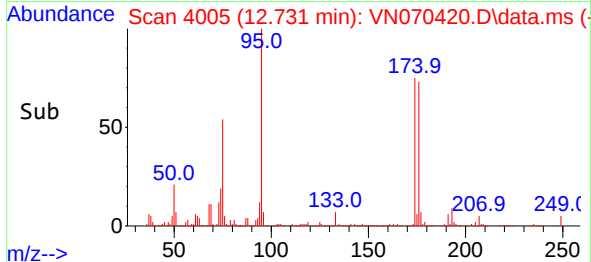
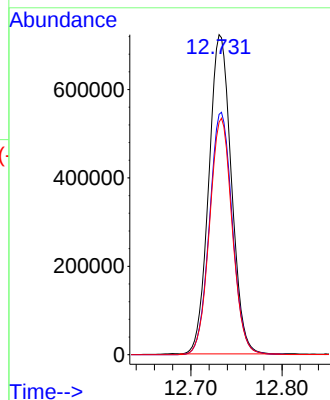
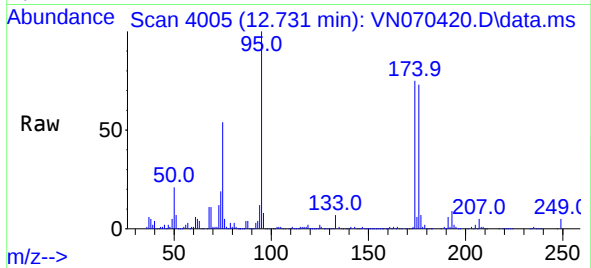




#62
4-Bromofluorobenzene
Concen: 74.100 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

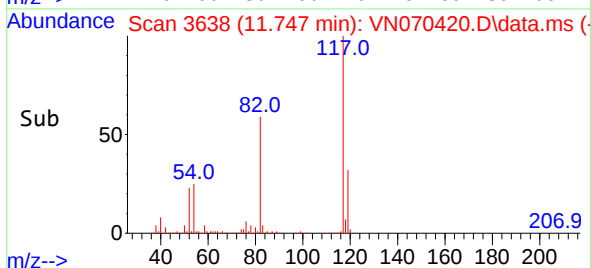
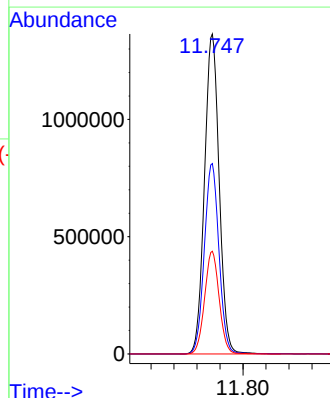
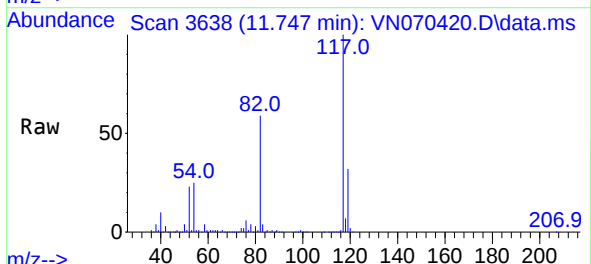
Instrument : MSVOA_N
ClientSampleId : POST-EXCAVATION-BOTTOM-EASTME

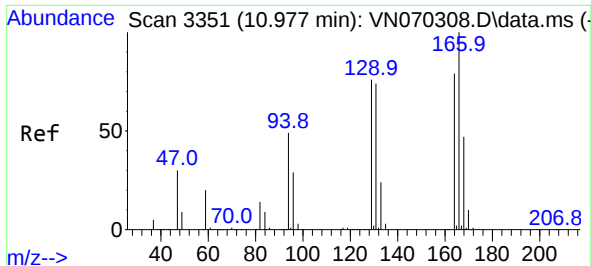
Tgt Ion: 95 Resp: 1240390
Ion Ratio Lower Upper
95 100
174 77.0 0.0 187.2
176 74.5 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.003 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

Tgt Ion: 117 Resp: 2419848
Ion Ratio Lower Upper
117 100
82 59.5 42.4 63.6
119 32.1 25.4 38.2

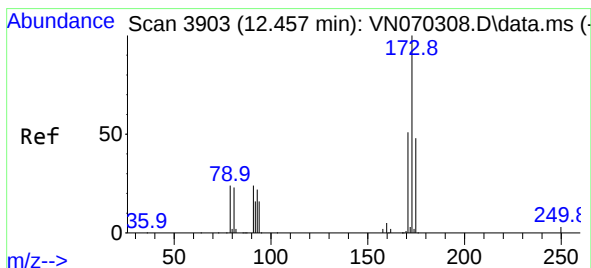
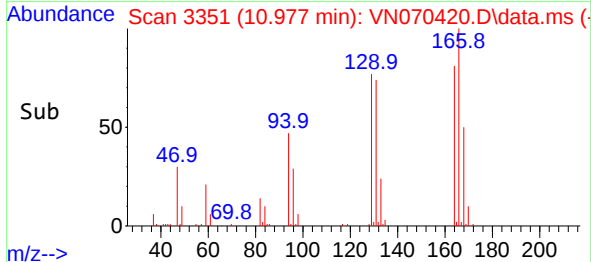
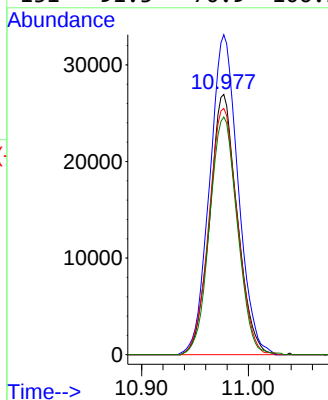
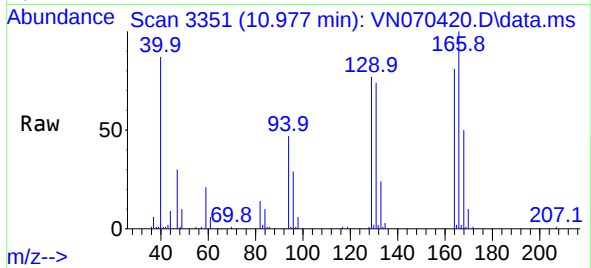




#64
Tetrachloroethene
Concen: 2.749 ug/l
RT: 10.977 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

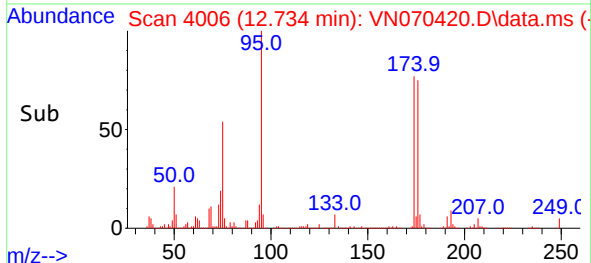
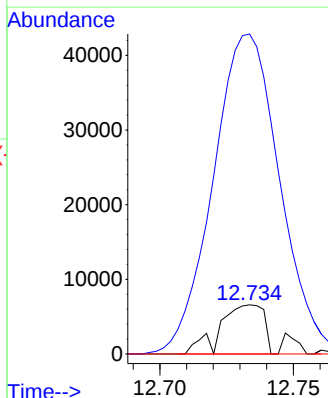
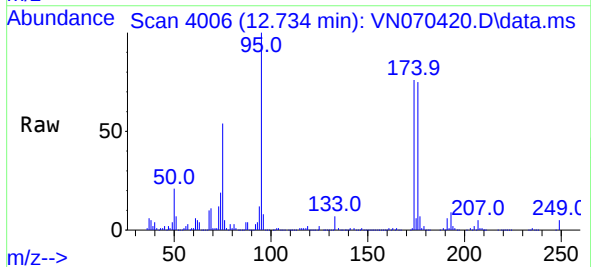
Instrument : MSVOA_N
ClientSampleId : POST-EXCAVATION-BOTTOM-EASTME

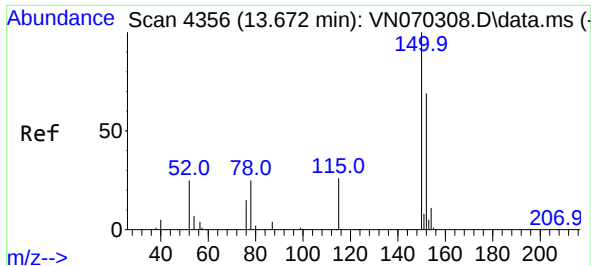
Tgt Ion:164 Resp: 48176
Ion Ratio Lower Upper
164 100
166 122.9 101.9 152.9
129 94.6 72.0 108.0
131 91.3 70.9 106.3



#71
Bromoform
Concen: 0.556 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.277 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

Tgt Ion:173 Resp: 7561
Ion Ratio Lower Upper
173 100
175 897.5 24.2 72.6#
254 0.0 0.0 0.0

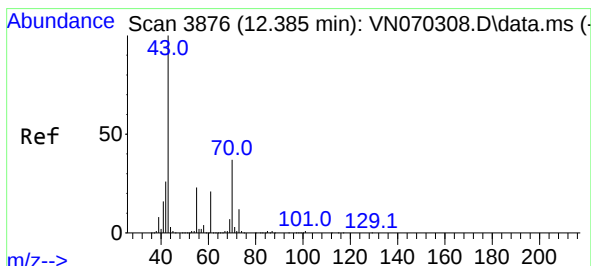
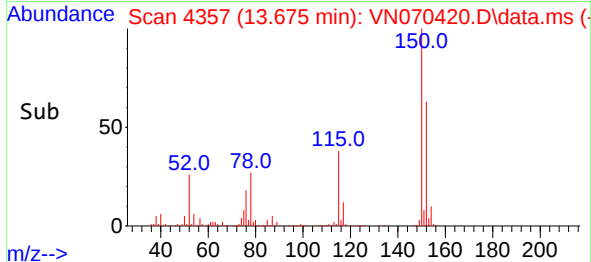
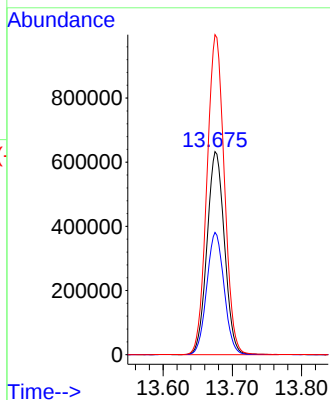
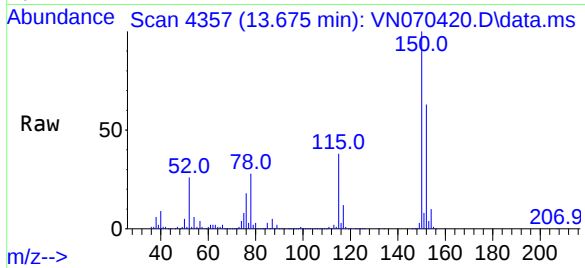




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.675 min Scan# 41
Delta R.T. 0.003 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

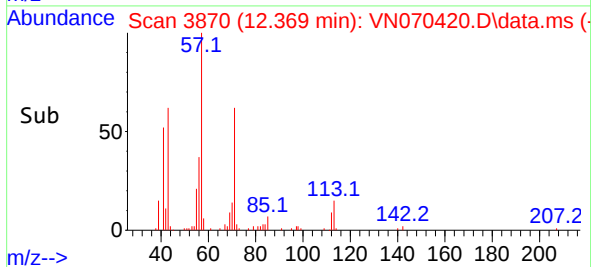
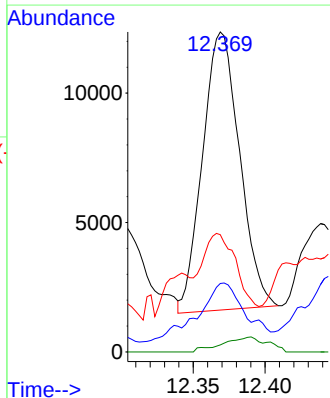
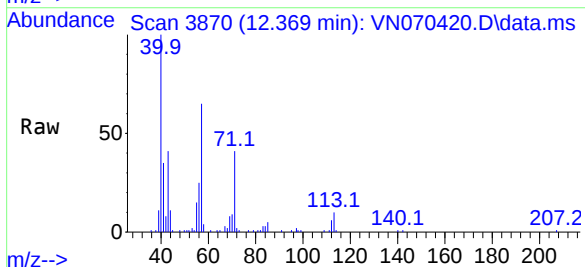
Instrument :
MSVOA_N
ClientSampleId :
POST-EXCAVATION-BOTTOM-EASTME

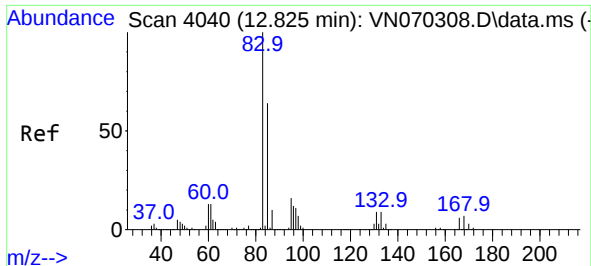
Tgt Ion:152 Resp: 1109908
Ion Ratio Lower Upper
152 100
115 59.8 27.5 82.5
150 157.1 0.0 344.4



#74
N-ethyl acetate
Concen: 0.445 ug/l
RT: 12.369 min Scan# 3870
Delta R.T. -0.016 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

Tgt Ion: 43 Resp: 19289
Ion Ratio Lower Upper
43 100
70 26.6 33.4 50.0#
55 21.6 19.3 28.9
61 0.0 18.5 27.7#

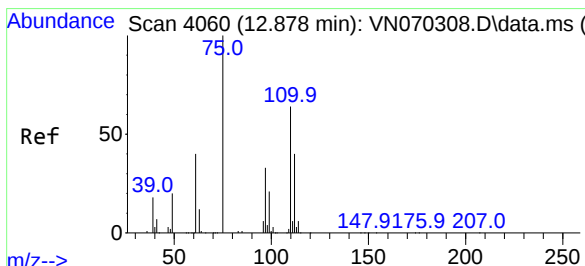
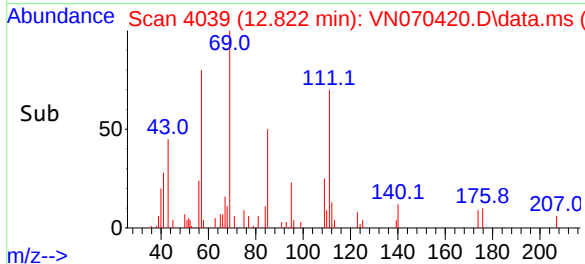
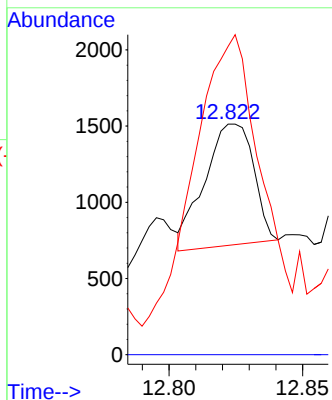
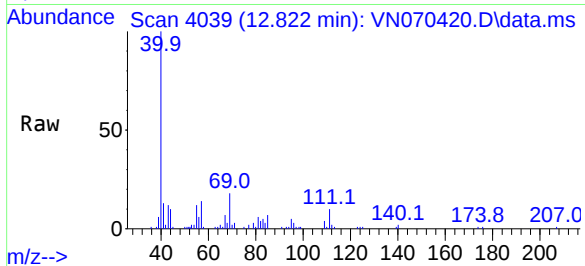




#75
1,1,2,2-Tetrachloroethane
Concen: 0.474 ug/l
RT: 12.822 min Scan# 4040
Delta R.T. -0.003 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

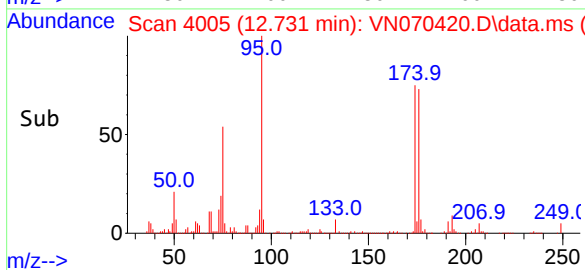
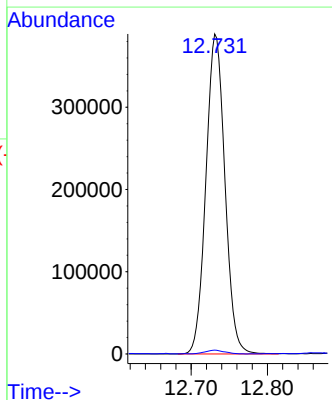
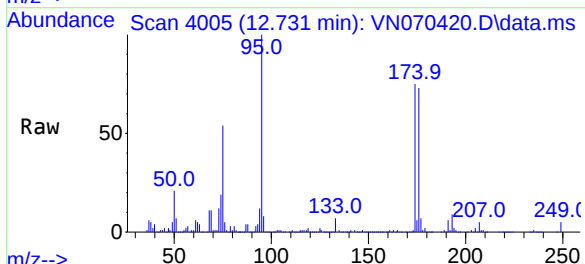
Instrument : MSVOA_N
ClientSampleId : POST-EXCAVATION-BOTTOM-EASTME

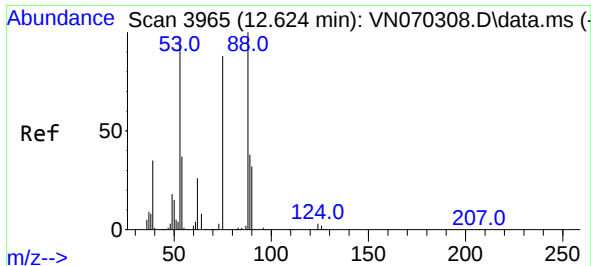
Tgt Ion: 83 Resp: 1016
Ion Ratio Lower Upper
83 100
131 0.0 5.5 16.5#
85 320.2 32.4 97.2#



#76
1,2,3-Trichloropropane
Concen: 22.056 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.147 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

Tgt Ion: 75 Resp: 671630
Ion Ratio Lower Upper
75 100
77 1.3 82.6 247.8#

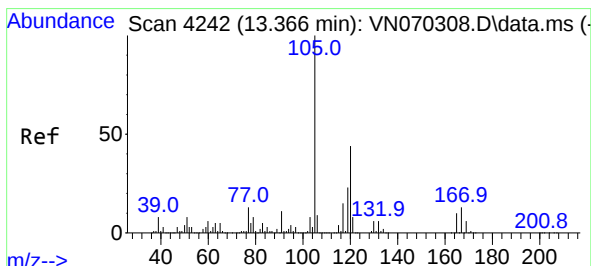
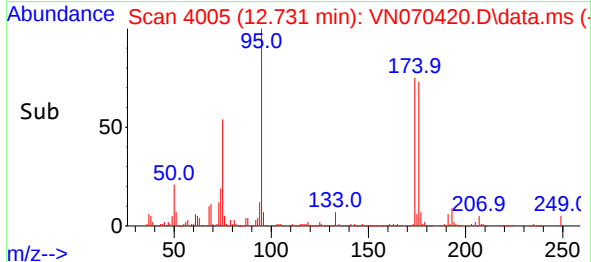
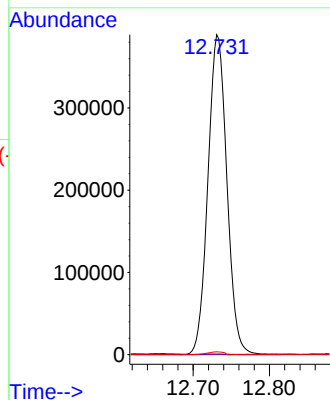
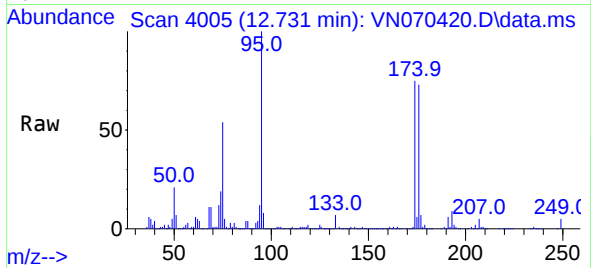




#81
trans-1,4-Dichloro-2-butene
Concen: 73.932 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.107 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

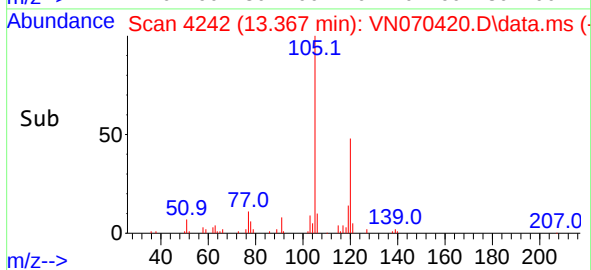
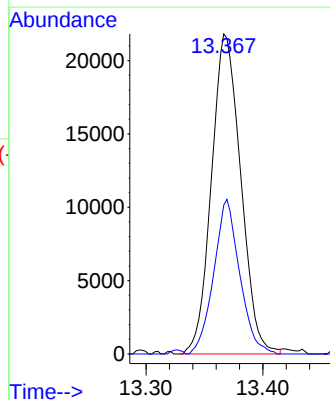
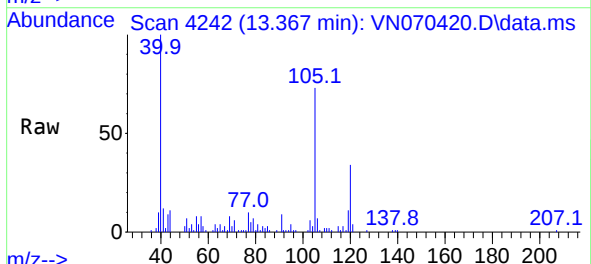
Instrument : MSVOA_N
ClientSampleId : POST-EXCAVATION-BOTTOM-EASTME

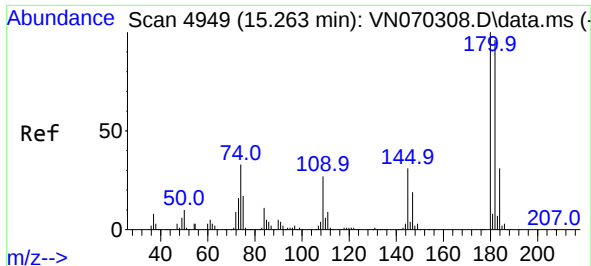
Tgt Ion: 75 Resp: 671630
Ion Ratio Lower Upper
75 100
53 0.2 90.5 135.7#
89 0.8 38.2 57.4#



#84
1,2,4-Trimethylbenzene
Concen: 0.478 ug/l
RT: 13.367 min Scan# 4242
Delta R.T. 0.001 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

Tgt Ion:105 Resp: 38047
Ion Ratio Lower Upper
105 100
120 42.7 22.8 68.4

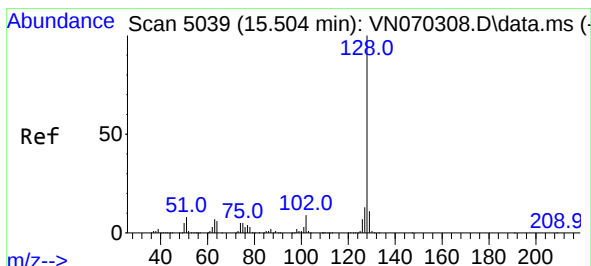
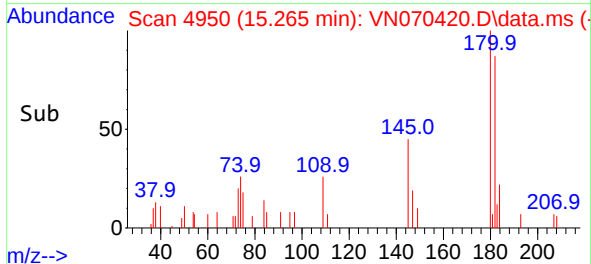
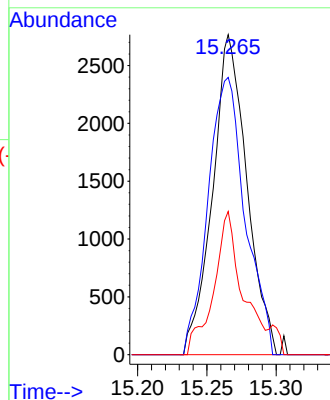
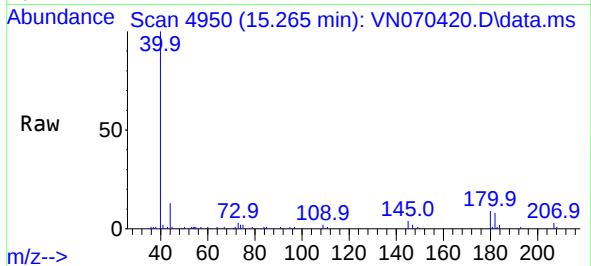




#93
1,2,4-Trichlorobenzene
Concen: 0.260 ug/l
RT: 15.265 min Scan# 4949
Delta R.T. 0.002 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

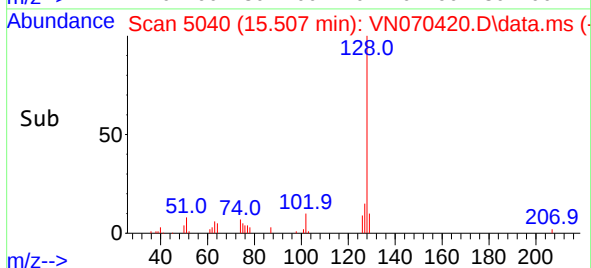
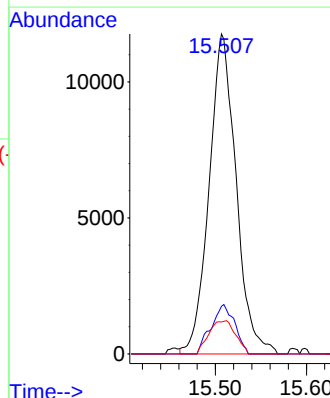
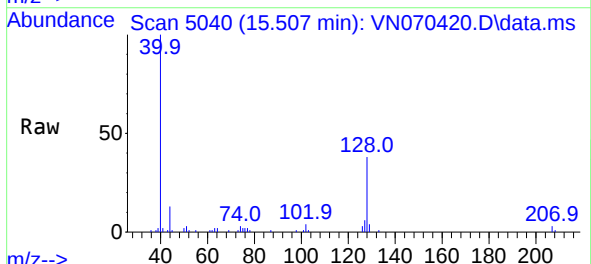
Instrument :
MSVOA_N
ClientSampleId :
POST-EXCAVATION-BOTTOM-EASTME

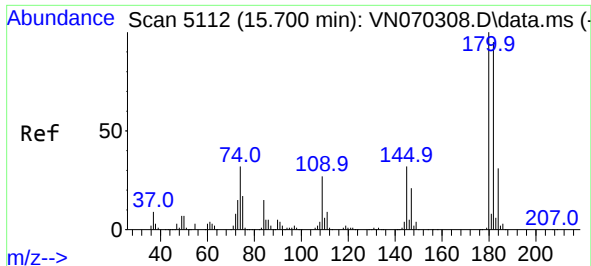
Tgt Ion:180 Resp: 4759
Ion Ratio Lower Upper
180 100
182 94.0 48.3 144.9
145 37.5 14.5 43.5



#95
Naphthalene
Concen: 2.259 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. 0.003 min
Lab File: VN070420.D
Acq: 31 Dec 2021 1:47

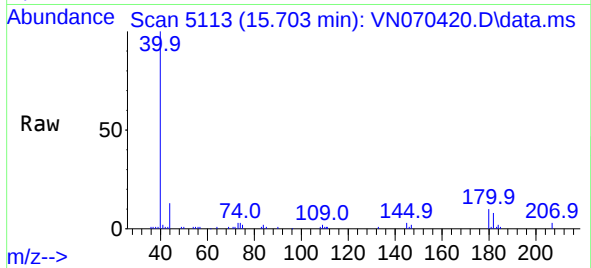
Tgt Ion:128 Resp: 24215
Ion Ratio Lower Upper
128 100
127 13.5 10.5 15.7
129 10.3 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 1.134 ug/l
 RT: 15.703 min Scan# 5113
 Delta R.T. 0.003 min
 Lab File: VN070420.D
 Acq: 31 Dec 2021 1:47

Instrument :
 MSVOA_N
 ClientSampleId :
 POST-EXCAVATION-BOTTOM-EASTME



Tgt Ion:	180	Resp:	5478
Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.4	142.2
145	16.1	15.0	45.1

