

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011022\
 Data File : VN070543.D
 Acq On : 10 Jan 2022 15:13
 Operator : JC/MD
 Sample : N1012-12DL 20X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 11 05:34:41 2022
 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)

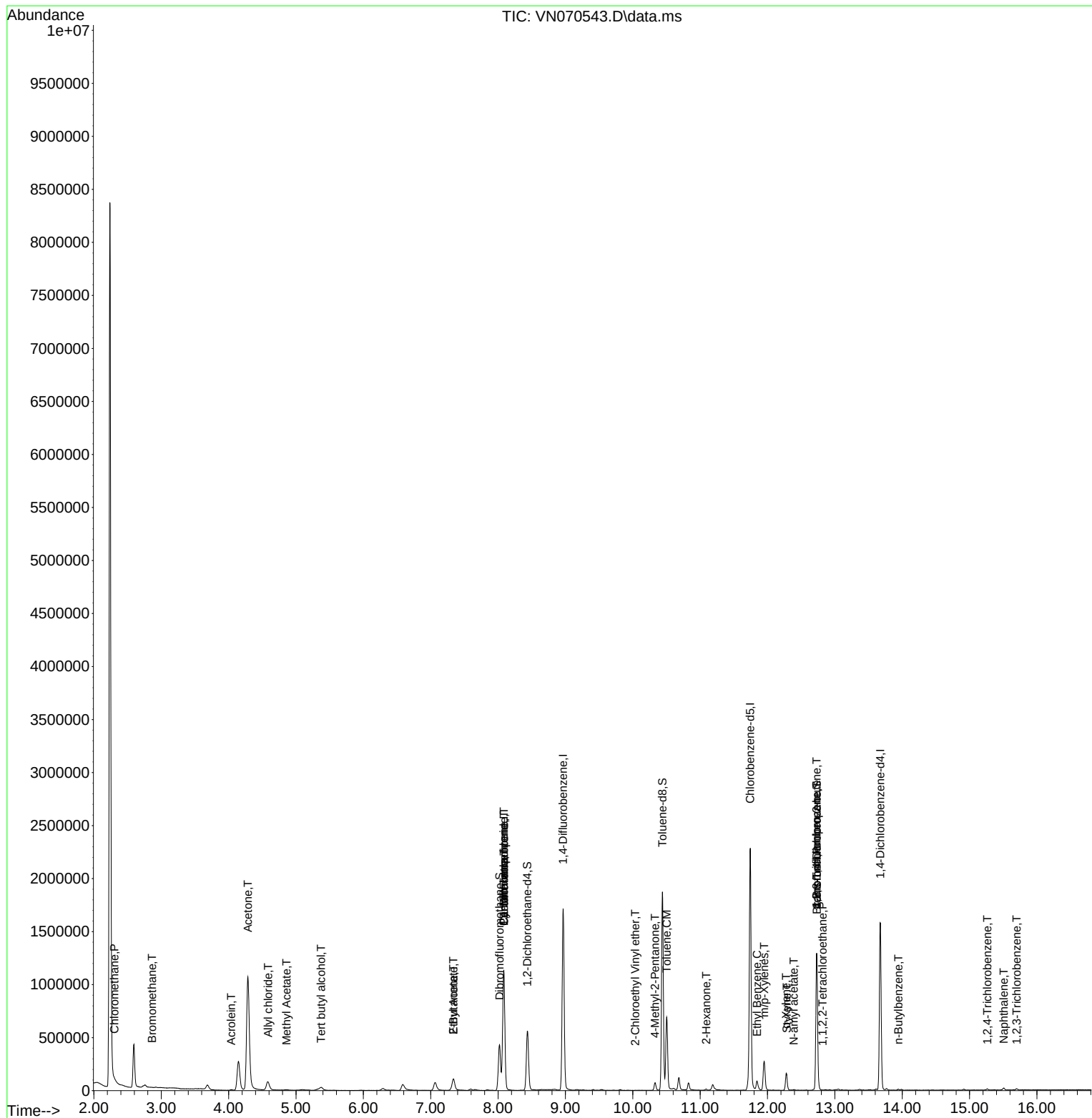
Internal Standards						
1) Pentafluorobenzene	8.086	168	883855	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.965	114	1493422	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	1331342	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	446807	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	465261	36.611	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	73.220%		
35) Dibromofluoromethane	8.021	113	325589	36.033	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	72.060%		
50) Toluene-d8	10.440	98	1318558	35.721	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	71.440%		
62) 4-Bromofluorobenzene	12.731	95	483764	36.286	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	72.580%		
Target Compounds						Qvalue
3) Chloromethane	2.303	50	3140	0.230	ug/l	97
5) Bromomethane	2.864	94	1421	0.222	ug/l	99
11) Tert butyl alcohol	5.372	59	57972	27.397	ug/l #	86
13) Acrolein	4.039	56	6722	3.915	ug/l	97
14) Allyl chloride	4.586	41	13277	0.651	ug/l #	47
16) Acetone	4.285	43	2037511	246.984	ug/l	97
18) Methyl Acetate	4.859	43	6797	0.285	ug/l #	82
25) 2-Butanone	7.337	43	181576	17.481	ug/l #	87
31) Cyclohexane	8.086	56	19699	0.982	ug/l #	4
36) 1,1-Dichloropropene	8.086	75	69814	4.670	ug/l #	48
37) Ethyl Acetate	7.337	43	181576	9.371	ug/l #	68
38) Carbon Tetrachloride	8.086	117	86089	6.031	ug/l #	17
51) 4-Methyl-2-Pentanone	10.331	43	56664	2.952	ug/l	96
52) Toluene	10.502	92	308668	11.128	ug/l	97
58) 2-Chloroethyl Vinyl ether	10.036	63	90	18.531	ug/l #	45
59) 2-Hexanone	11.090	43	8727	0.623	ug/l	91
67) Ethyl Benzene	11.843	91	55956	1.081	ug/l	99
68) m/p-Xylenes	11.950	106	90547	4.806	ug/l	92
69) o-Xylene	12.278	106	43658	2.330	ug/l	92
70) Styrene	12.288	104	7074	0.239	ug/l #	9
71) Bromoform	12.734	173	2731	0.365	ug/l #	1
74) N-amyl acetate	12.390	43	5117	0.293	ug/l #	76
75) 1,1,2,2-Tetrachloroethane	12.819	83	255	0.464	ug/l #	20
76) 1,2,3-Trichloropropane	12.731	75	248327	20.481	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	248327	67.904	ug/l #	5
89) n-Butylbenzene	13.943	91	5900	0.227	ug/l	86
93) 1,2,4-Trichlorobenzene	15.263	180	3787	0.514	ug/l	92
95) Naphthalene	15.507	128	17697	2.635	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.700	180	4502	1.454	ug/l	99

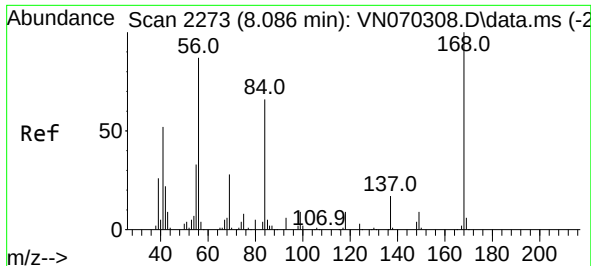
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

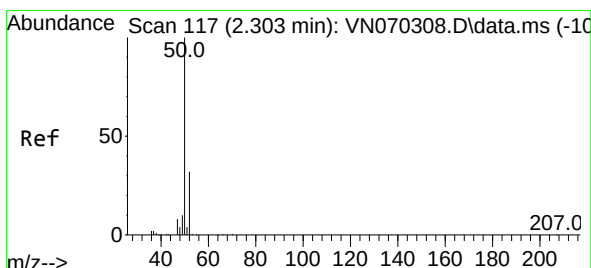
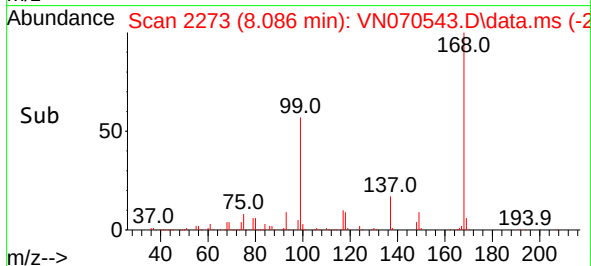
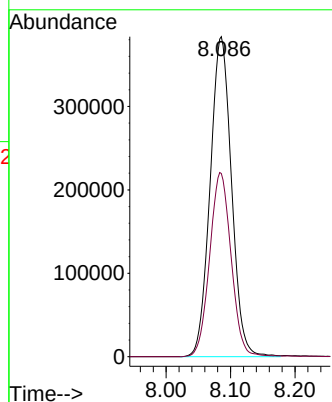
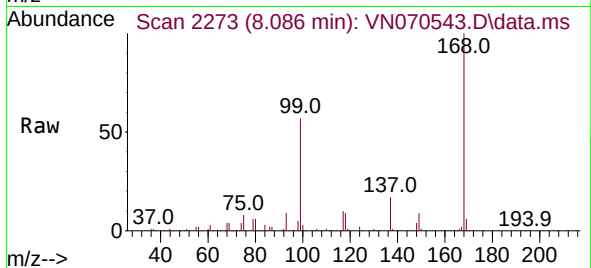




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

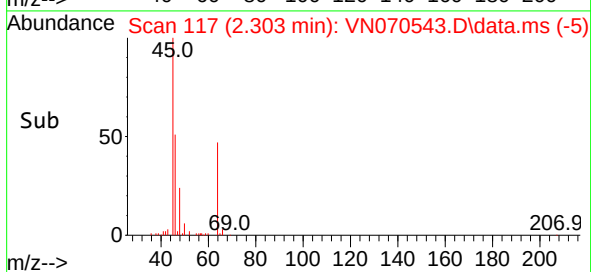
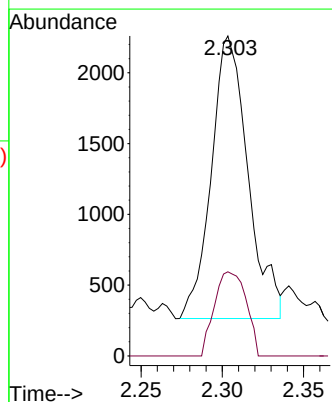
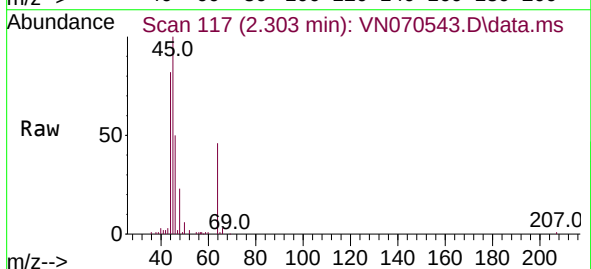
Instrument :
MSVOA_N
ClientSampleId :

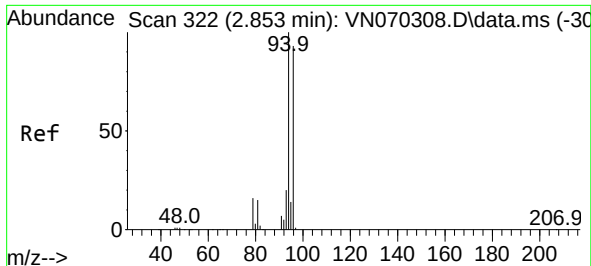
Tgt Ion:168 Resp: 883855
Ion Ratio Lower Upper
168 100
99 57.2 41.3 61.9



#3
Chloromethane
Concen: 0.230 ug/l
RT: 2.303 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

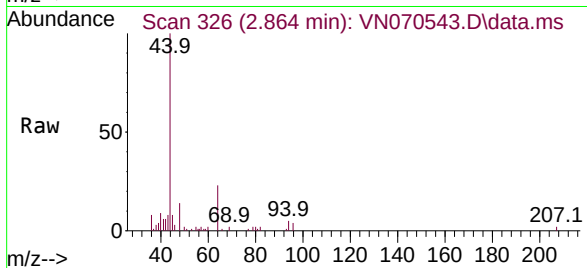
Tgt Ion: 50 Resp: 3140
Ion Ratio Lower Upper
50 100
52 29.8 25.4 38.0



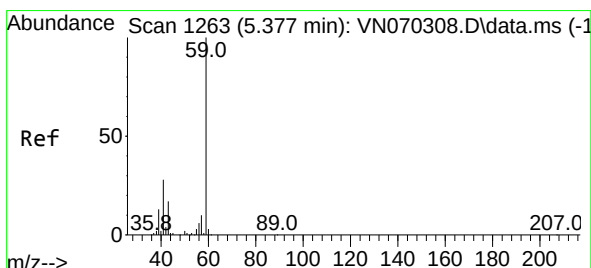
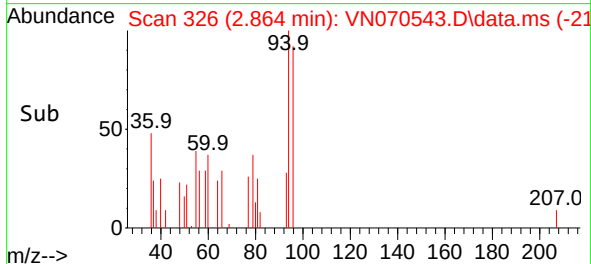
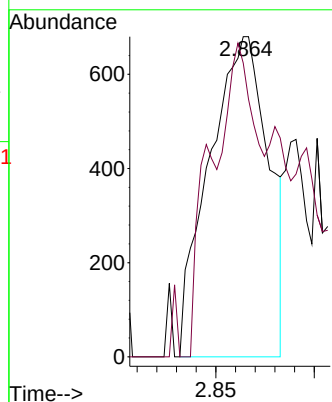


#5
Bromomethane
Concen: 0.222 ug/l
RT: 2.864 min Scan# 31
Delta R.T. 0.011 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

Instrument :
MSVOA_N
ClientSampleId :

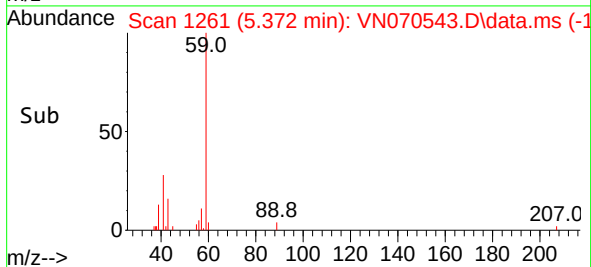
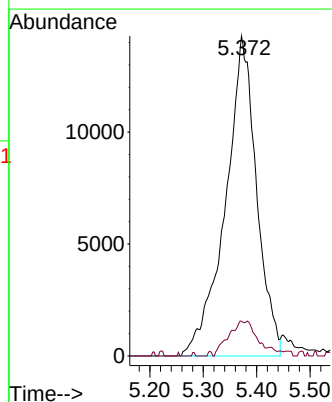
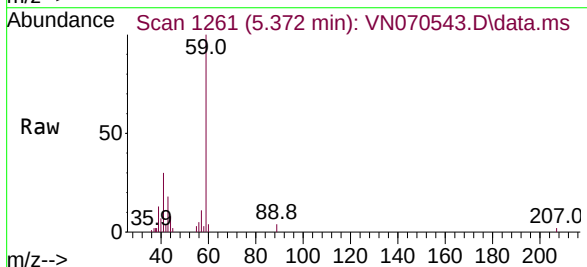


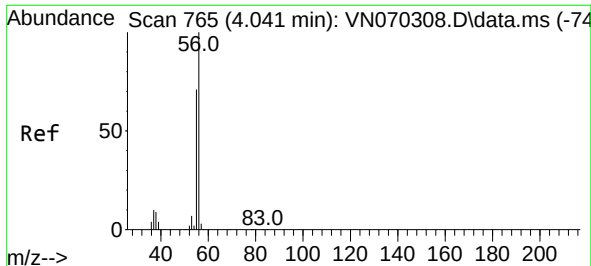
Tgt Ion: 94 Resp: 1421
Ion Ratio Lower Upper
94 100
96 91.8 73.8 110.8



#11
Tert butyl alcohol
Concen: 27.397 ug/l
RT: 5.372 min Scan# 1261
Delta R.T. -0.005 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

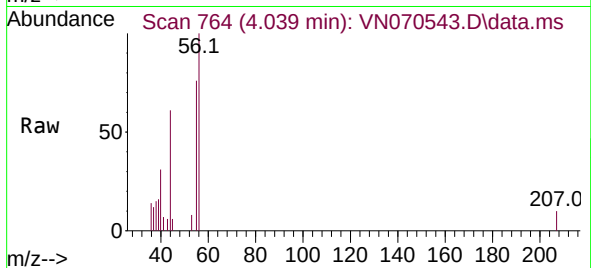
Tgt Ion: 59 Resp: 57972
Ion Ratio Lower Upper
59 100
57 5.6 8.7 13.1#



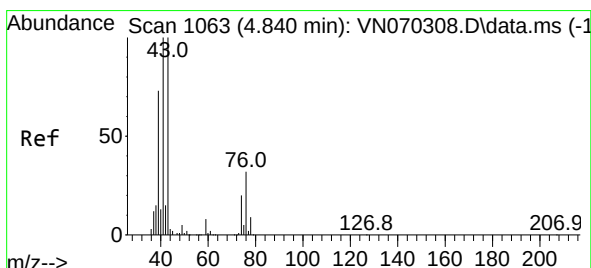
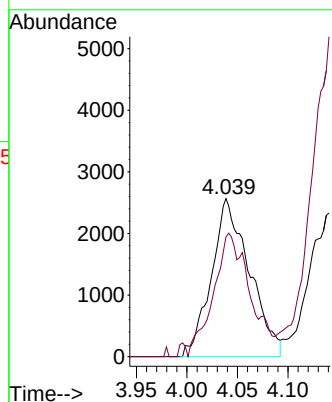
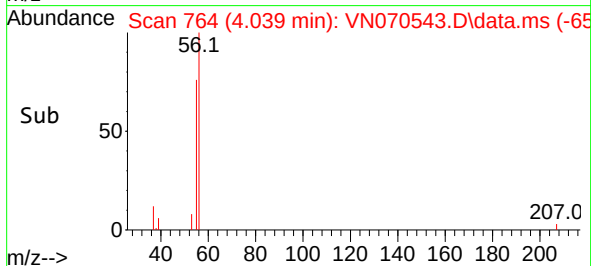


#13
Acrolein
Concen: 3.915 ug/l
RT: 4.039 min Scan# 70
Delta R.T. -0.002 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

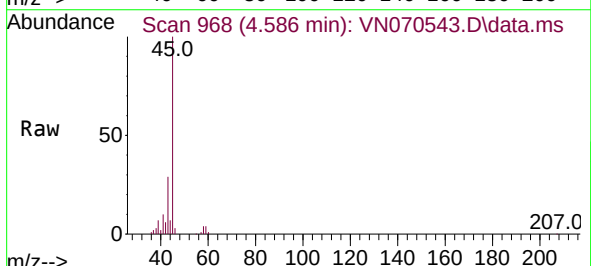
Instrument :
MSVOA_N
ClientSampleId :



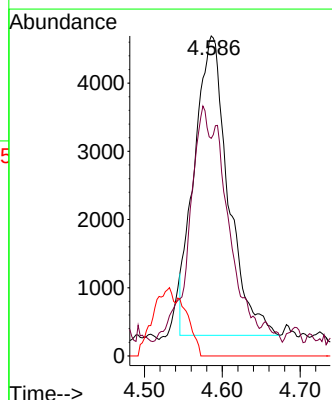
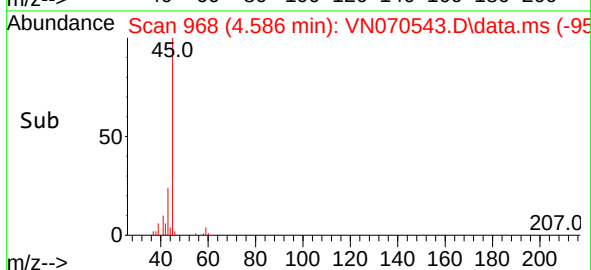
Tgt Ion: 56 Resp: 6722
Ion Ratio Lower Upper
56 100
55 68.2 56.6 85.0

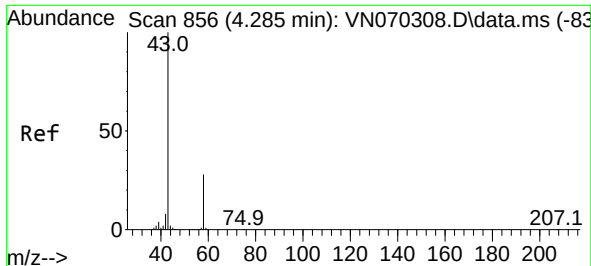


#14
Allyl chloride
Concen: 0.651 ug/l
RT: 4.586 min Scan# 968
Delta R.T. -0.254 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13



Tgt Ion: 41 Resp: 13277
Ion Ratio Lower Upper
41 100
39 32.3 61.2 91.8#
76 0.0 26.0 39.0#

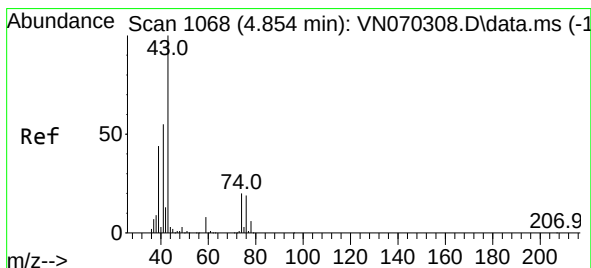
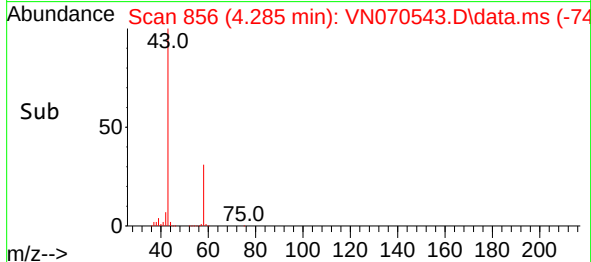
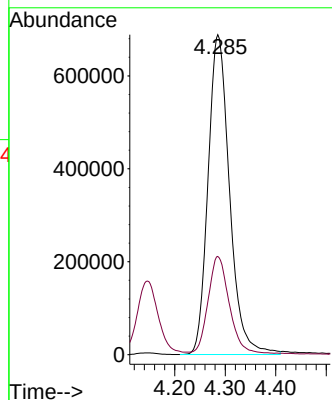
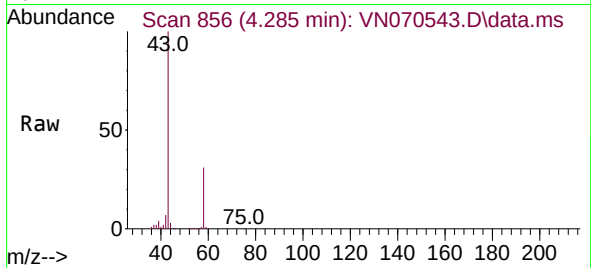




#16
Acetone
Concen: 246.984 ug/l
RT: 4.285 min Scan# 856
Delta R.T. 0.000 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

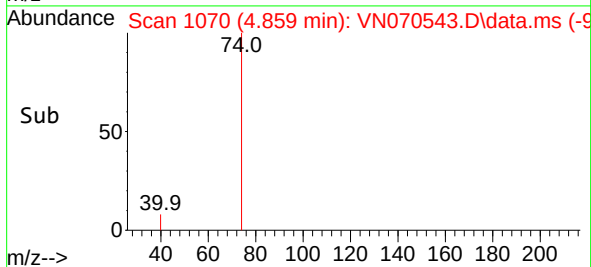
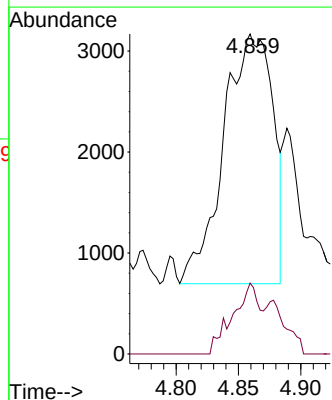
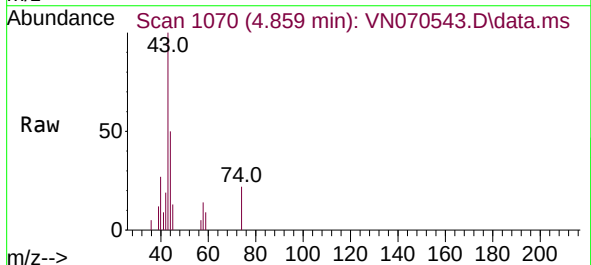
Instrument :
MSVOA_N
ClientSampleId :

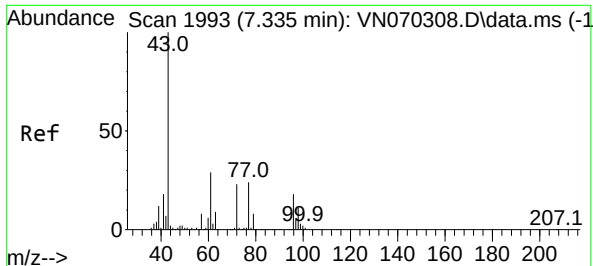
Tgt Ion: 43 Resp: 2037511
Ion Ratio Lower Upper
43 100
58 30.3 23.1 34.7



#18
Methyl Acetate
Concen: 0.285 ug/l
RT: 4.859 min Scan# 1070
Delta R.T. 0.005 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

Tgt Ion: 43 Resp: 6797
Ion Ratio Lower Upper
43 100
74 15.5 19.4 29.2#





#25

2-Butanone

Concen: 17.481 ug/l

RT: 7.337 min Scan# 1993

Delta R.T. 0.002 min

Lab File: VN070543.D

Acq: 10 Jan 2022 15:13

Instrument :

MSVOA_N

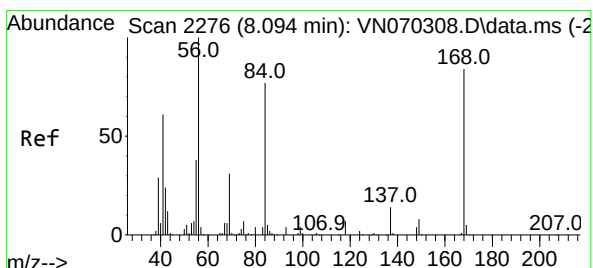
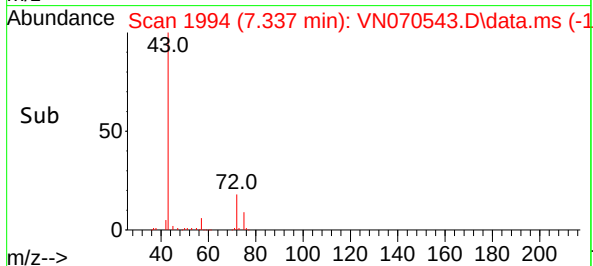
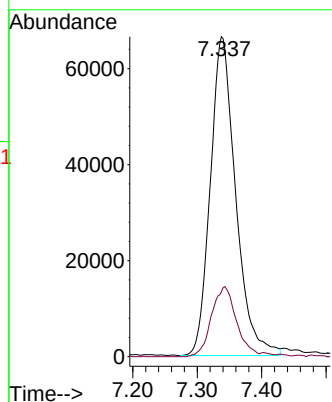
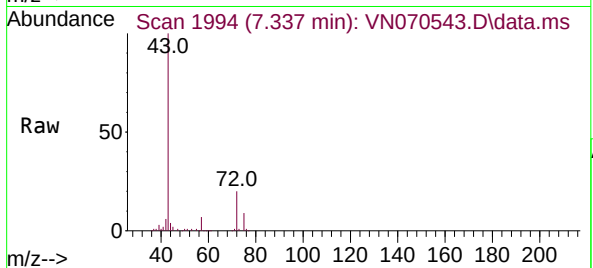
ClientSampleId :

Tgt Ion: 43 Resp: 181576

Ion Ratio Lower Upper

43 100

72 20.3 21.7 32.5#



#31

Cyclohexane

Concen: 0.982 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.008 min

Lab File: VN070543.D

Acq: 10 Jan 2022 15:13

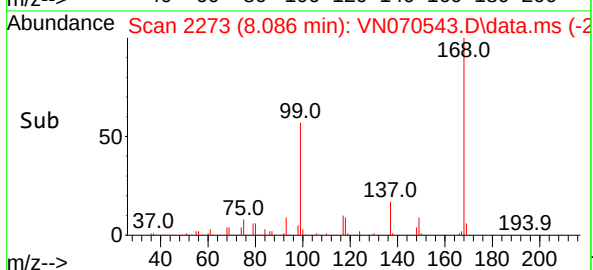
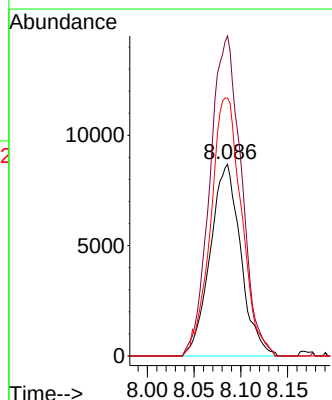
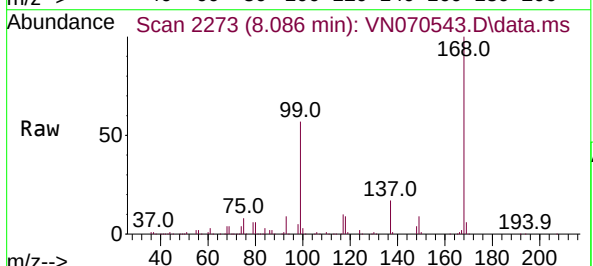
Tgt Ion: 56 Resp: 19699

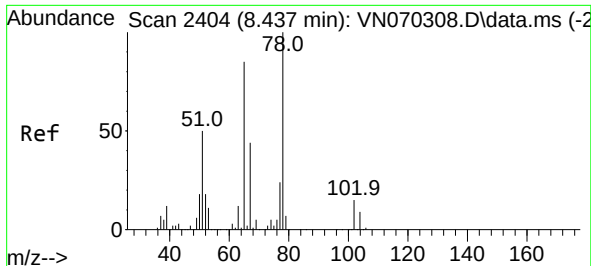
Ion Ratio Lower Upper

56 100

69 167.0 27.1 40.7#

84 134.6 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 36.611 ug/l

RT: 8.434 min Scan# 2404

Delta R.T. -0.003 min

Lab File: VN070543.D

Acq: 10 Jan 2022 15:13

Instrument :

MSVOA_N

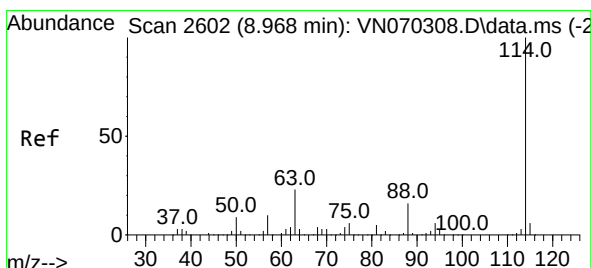
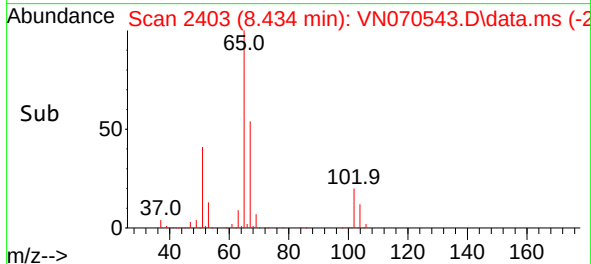
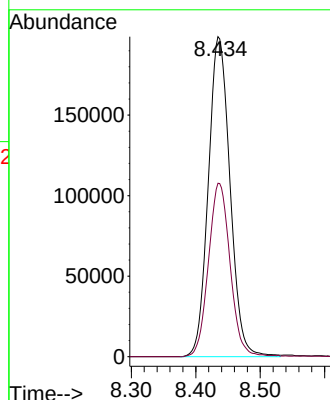
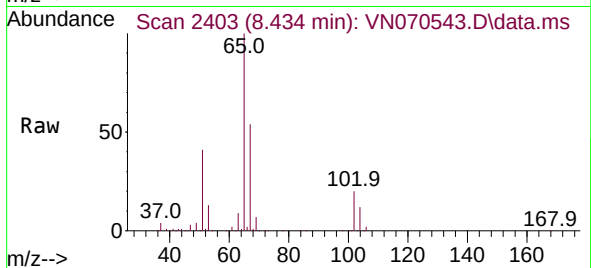
ClientSampleId :

Tgt Ion: 65 Resp: 465261

Ion Ratio Lower Upper

65 100

67 53.9 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.965 min Scan# 2601

Delta R.T. -0.003 min

Lab File: VN070543.D

Acq: 10 Jan 2022 15:13

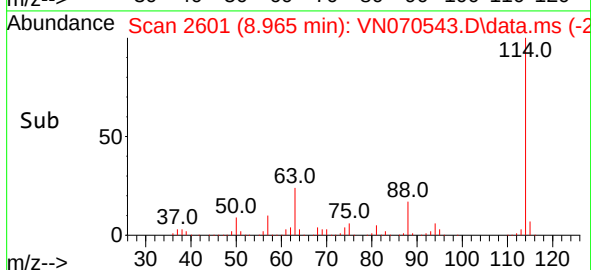
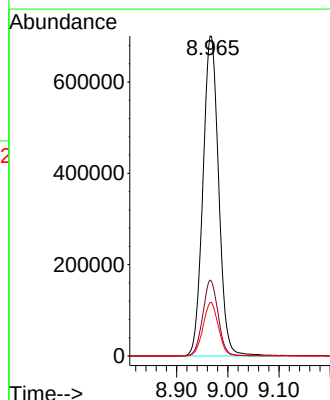
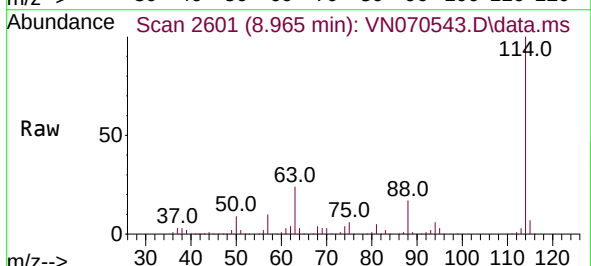
Tgt Ion: 114 Resp: 1493422

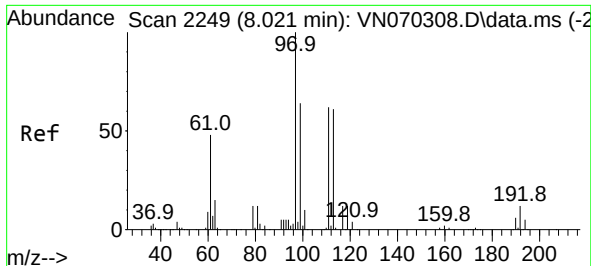
Ion Ratio Lower Upper

114 100

63 23.7 0.0 37.8

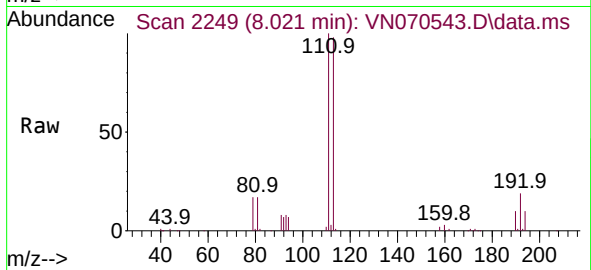
88 16.7 0.0 27.4



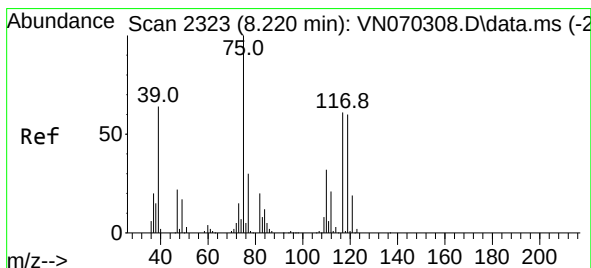
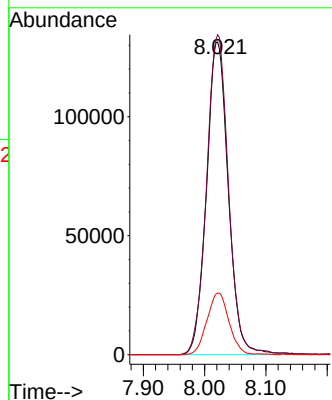
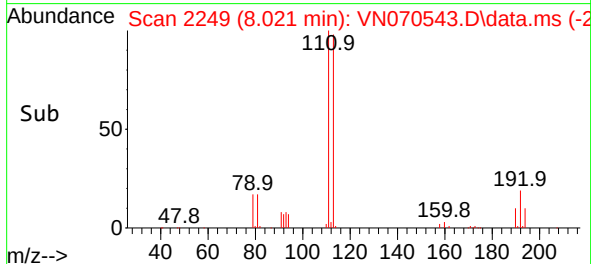


#35
Dibromofluoromethane
Concen: 36.033 ug/l
RT: 8.021 min Scan# 2249
Delta R.T. 0.000 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

Instrument :
MSVOA_N
ClientSampleId :

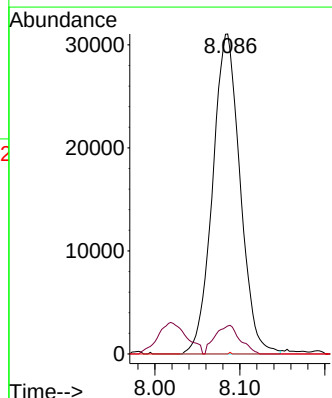
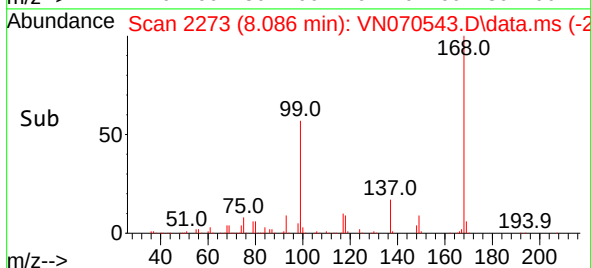
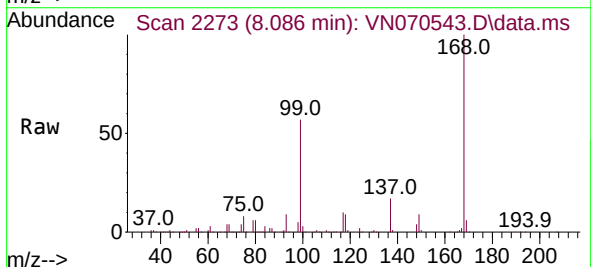


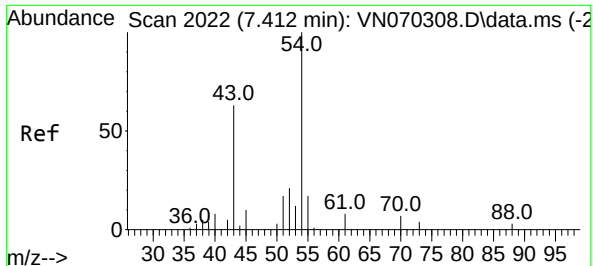
Tgt Ion:113 Resp: 325589
Ion Ratio Lower Upper
113 100
111 102.4 82.2 123.2
192 19.9 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.670 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.134 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

Tgt Ion: 75 Resp: 69814
Ion Ratio Lower Upper
75 100
110 8.1 18.4 55.2#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 9.371 ug/l

RT: 7.337 min Scan# 1994

Delta R.T. -0.075 min

Lab File: VN070543.D

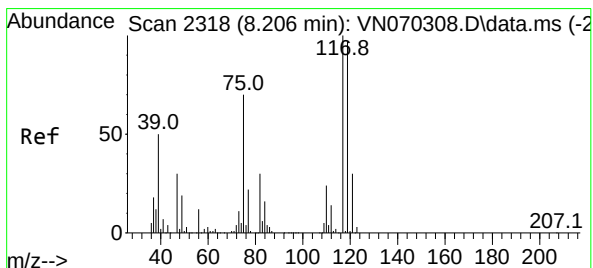
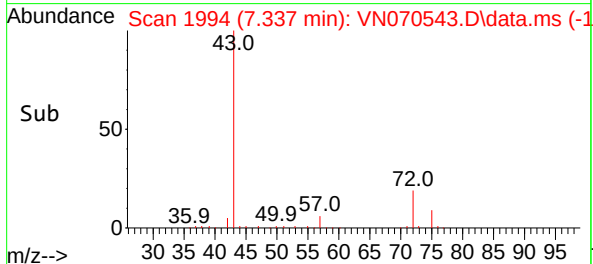
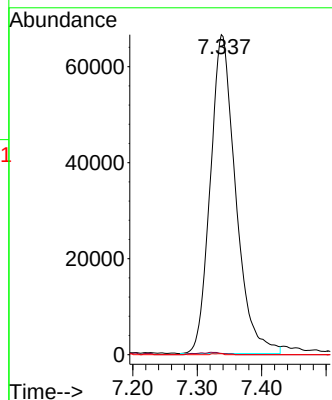
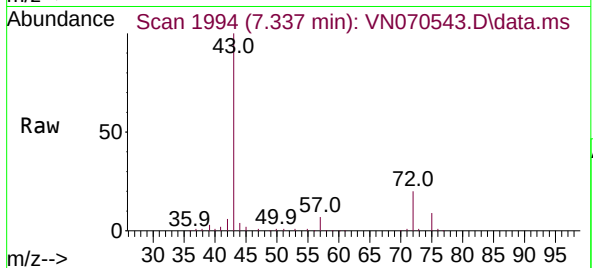
Acq: 10 Jan 2022 15:13

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	43	Resp:	181576
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.5	17.3#
70	0.1	7.9	11.9#



#38

Carbon Tetrachloride

Concen: 6.031 ug/l

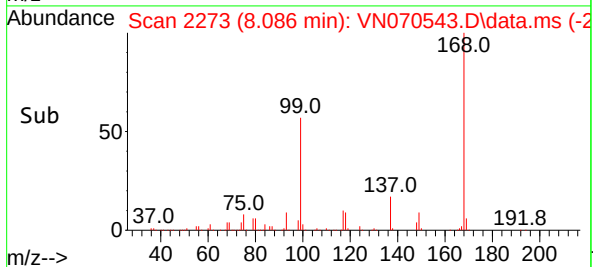
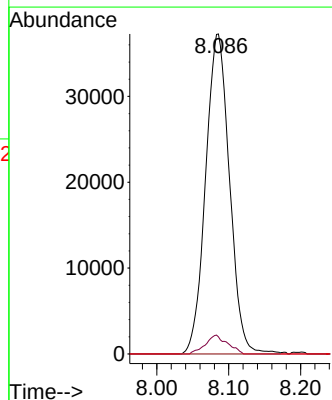
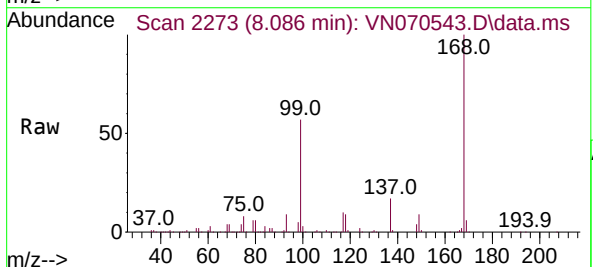
RT: 8.086 min Scan# 2273

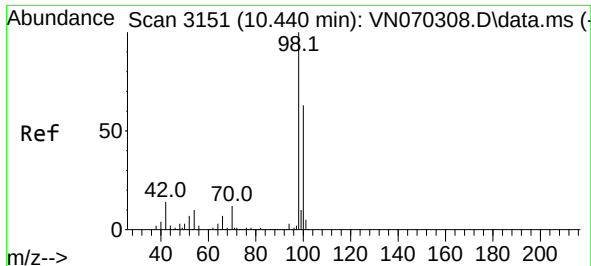
Delta R.T. -0.120 min

Lab File: VN070543.D

Acq: 10 Jan 2022 15:13

Tgt Ion:	117	Resp:	86089
Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.1	114.1#
121	0.0	24.2	36.2#

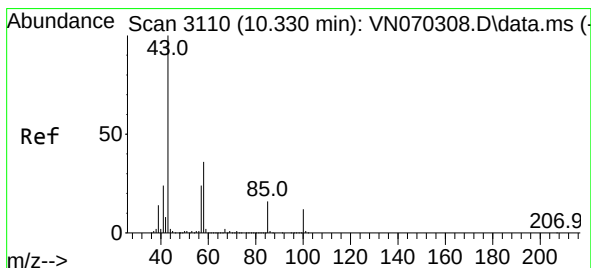
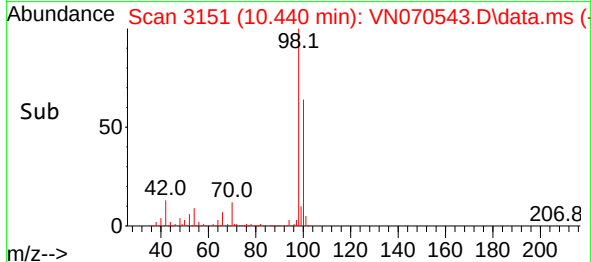
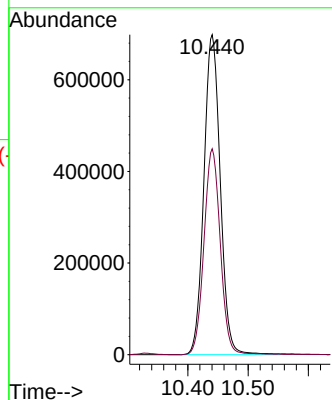
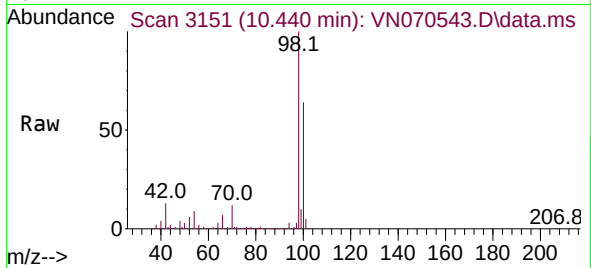




#50
Toluene-d8
Concen: 35.721 ug/l
RT: 10.440 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

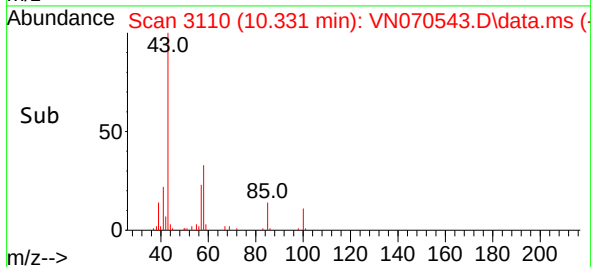
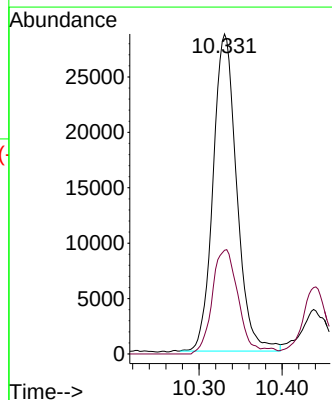
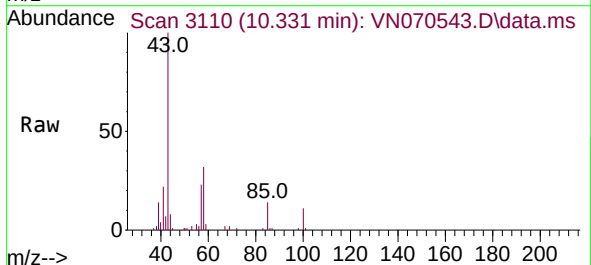
Instrument :
MSVOA_N
ClientSampleId :

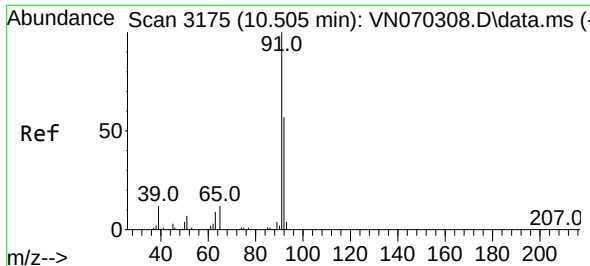
Tgt Ion: 98 Resp: 1318558
Ion Ratio Lower Upper
98 100
100 64.1 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 2.952 ug/l
RT: 10.331 min Scan# 3110
Delta R.T. 0.001 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

Tgt Ion: 43 Resp: 56664
Ion Ratio Lower Upper
43 100
58 35.8 30.4 45.6

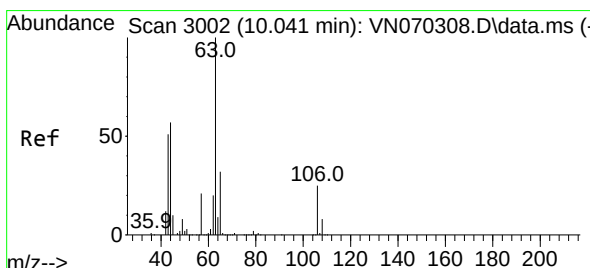
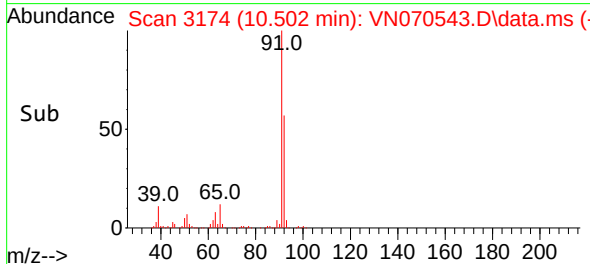
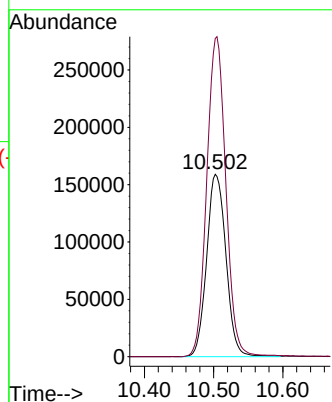
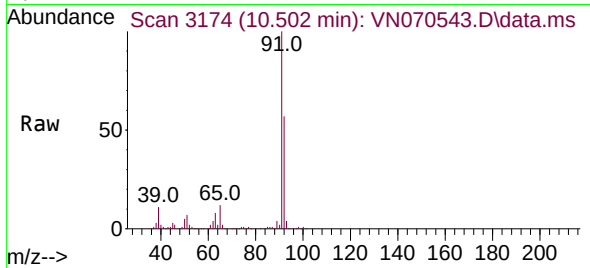




#52
Toluene
Concen: 11.128 ug/l
RT: 10.502 min Scan# 3175
Delta R.T. -0.003 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

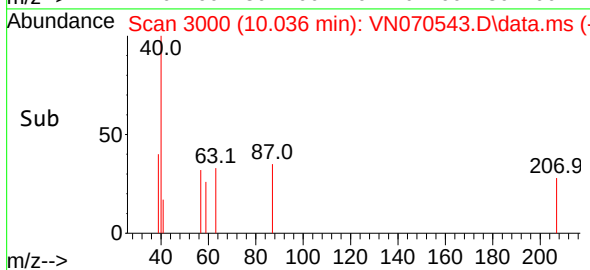
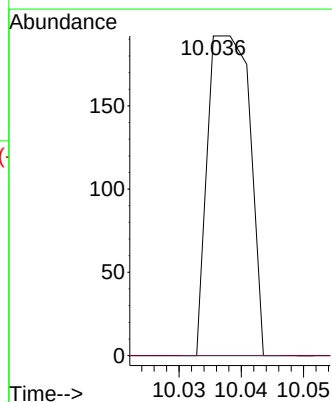
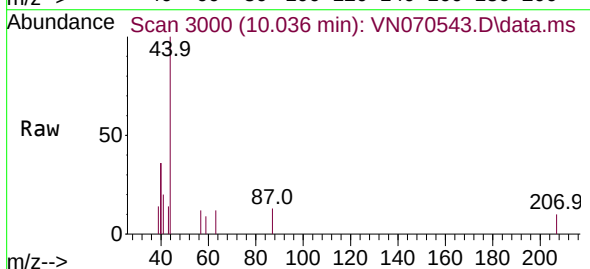
Instrument :
MSVOA_N
ClientSampleId :

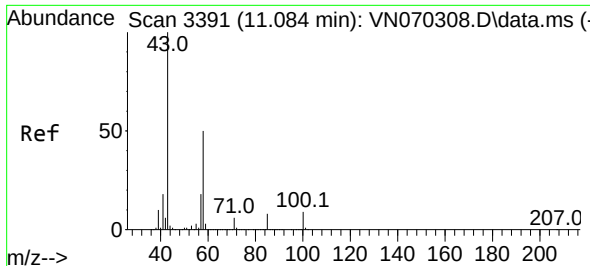
Tgt Ion: 92 Resp: 308668
Ion Ratio Lower Upper
92 100
91 173.6 142.0 213.0



#58
2-Chloroethyl Vinyl ether
Concen: 18.531 ug/l
RT: 10.036 min Scan# 3000
Delta R.T. -0.005 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

Tgt Ion: 63 Resp: 90
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

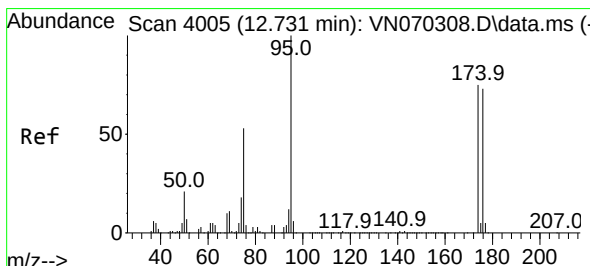
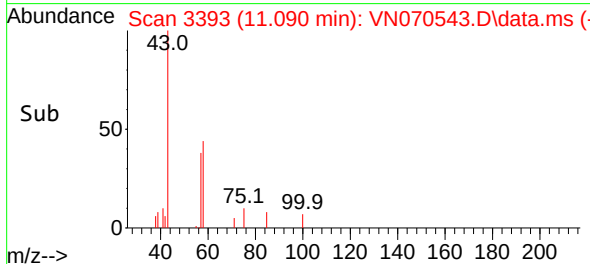
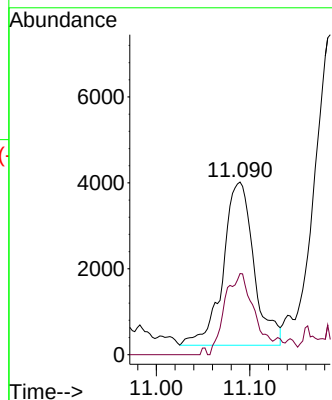
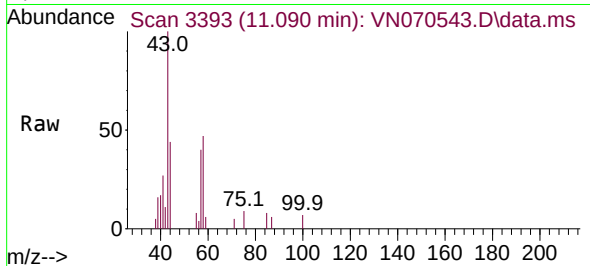




#59
2-Hexanone
Concen: 0.623 ug/l
RT: 11.090 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

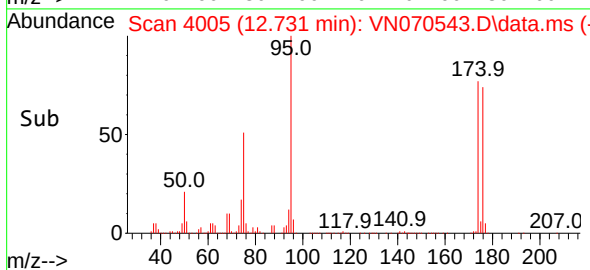
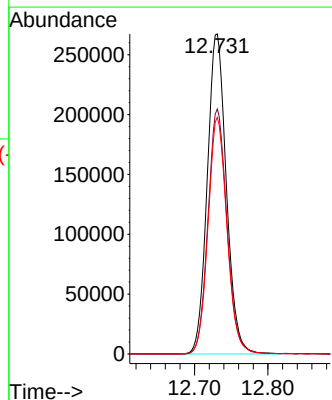
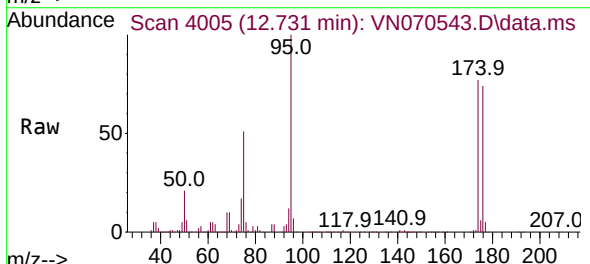
Instrument :
MSVOA_N
ClientSampleId :

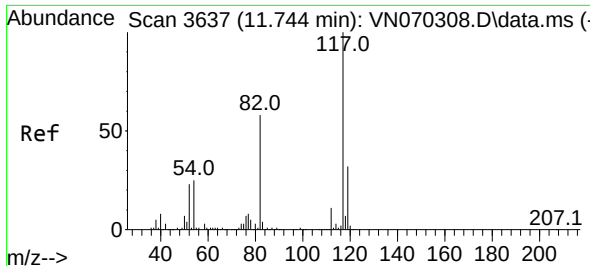
Tgt Ion: 43 Resp: 8727
Ion Ratio Lower Upper
43 100
58 47.3 26.9 80.7



#62
4-Bromofluorobenzene
Concen: 36.286 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

Tgt Ion: 95 Resp: 483764
Ion Ratio Lower Upper
95 100
174 76.3 0.0 187.2
176 73.0 0.0 181.4

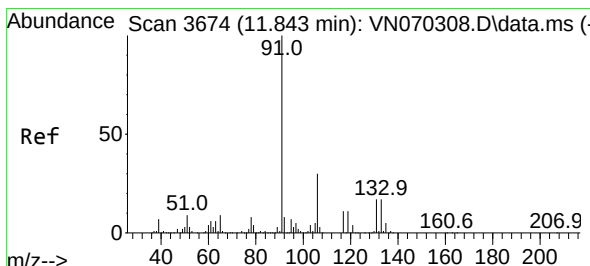
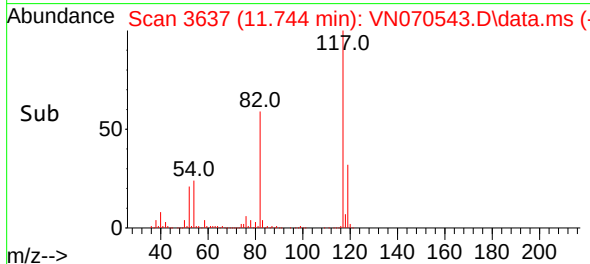
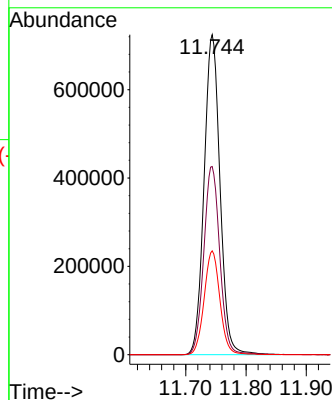
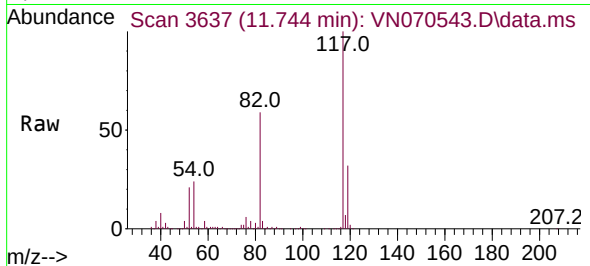




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.000 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

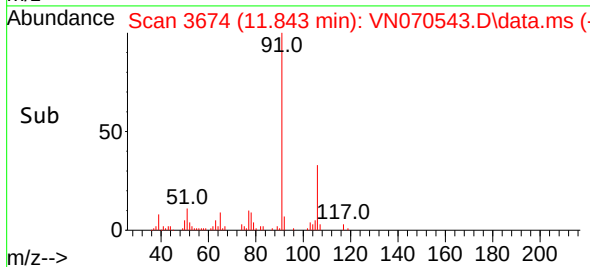
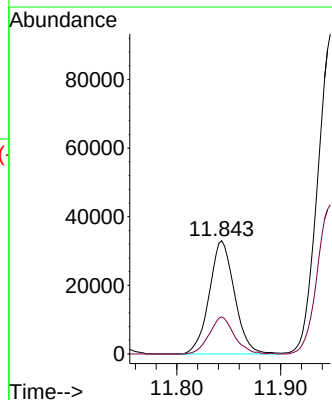
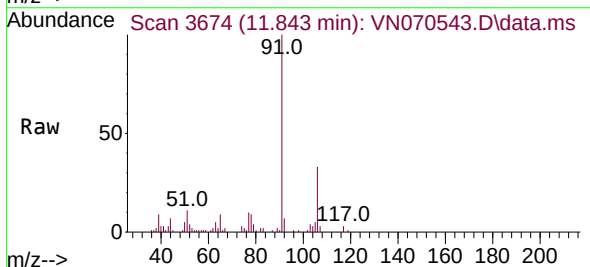
Instrument :
MSVOA_N
ClientSampleId :

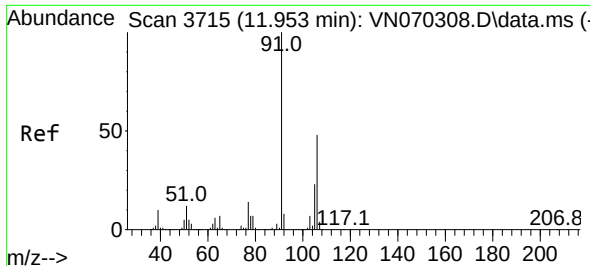
Tgt Ion:117 Resp: 1331342
Ion Ratio Lower Upper
117 100
82 58.8 42.4 63.6
119 32.5 25.4 38.2



#67
Ethyl Benzene
Concen: 1.081 ug/l
RT: 11.843 min Scan# 3674
Delta R.T. 0.000 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

Tgt Ion: 91 Resp: 55956
Ion Ratio Lower Upper
91 100
106 32.8 25.7 38.5

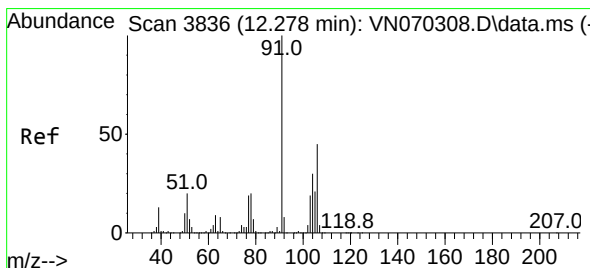
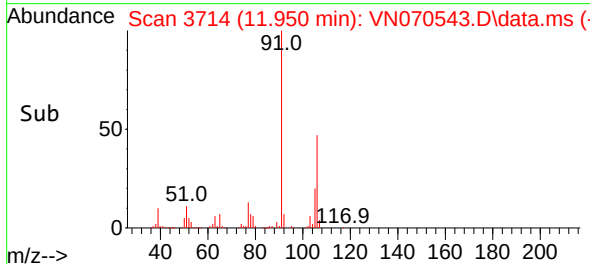
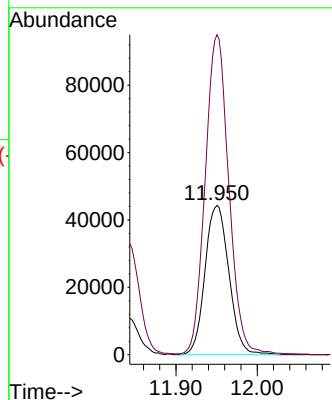
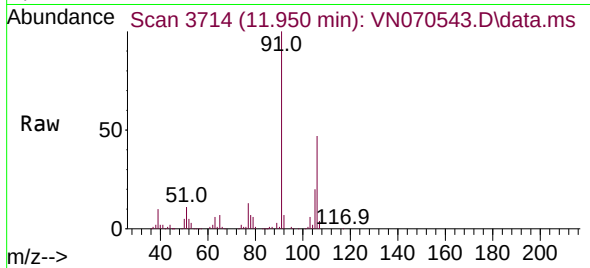




#68
m/p-Xylenes
Concen: 4.806 ug/l
RT: 11.950 min Scan# 3715
Delta R.T. -0.003 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

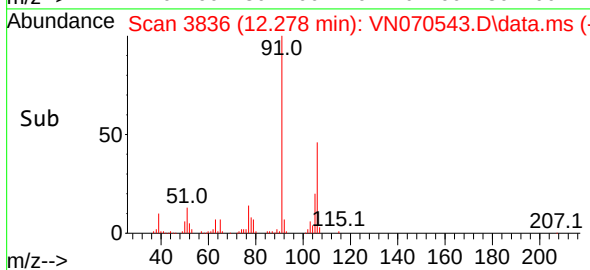
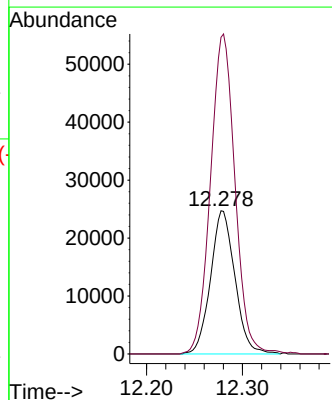
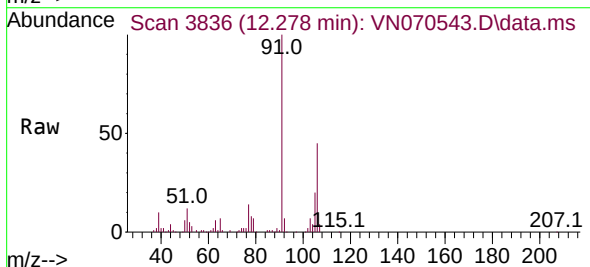
Instrument :
MSVOA_N
ClientSampleId :

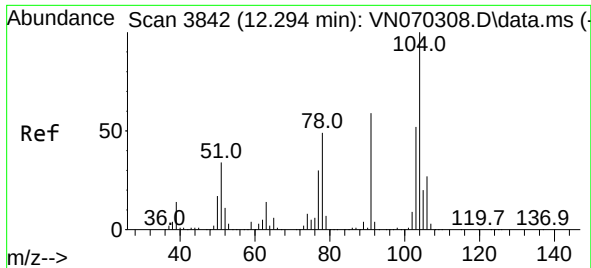
Tgt Ion:106 Resp: 90547
Ion Ratio Lower Upper
106 100
91 212.6 160.6 240.8



#69
o-Xylene
Concen: 2.330 ug/l
RT: 12.278 min Scan# 3836
Delta R.T. -0.000 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

Tgt Ion:106 Resp: 43658
Ion Ratio Lower Upper
106 100
91 224.4 105.8 317.3

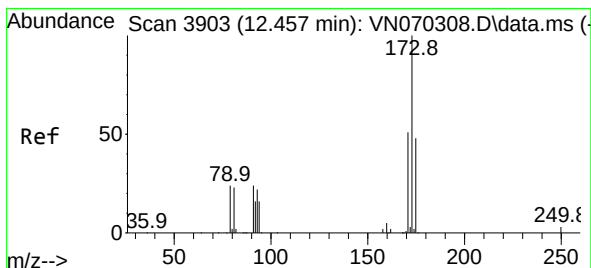
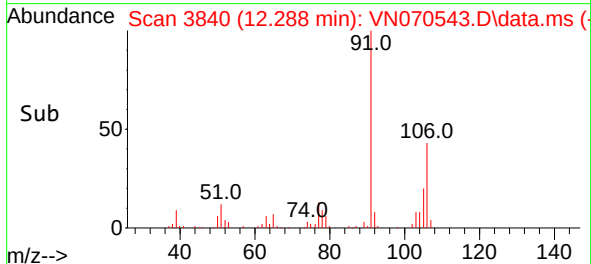
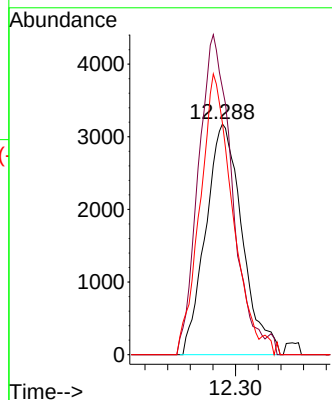
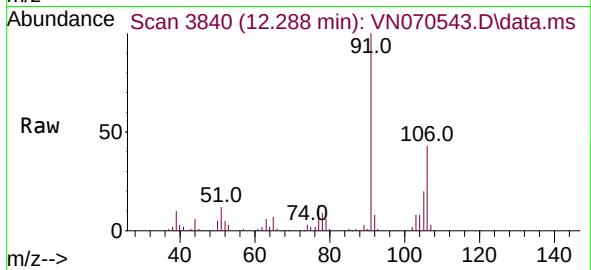




#70
Styrene
Concen: 0.239 ug/l
RT: 12.288 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

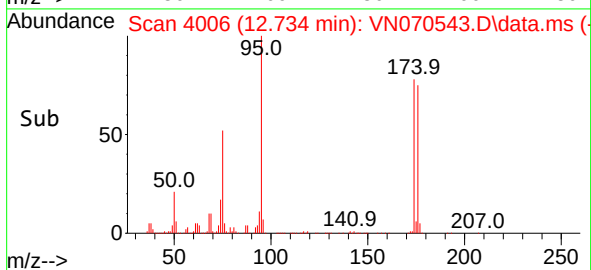
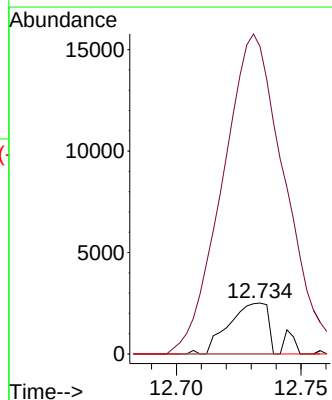
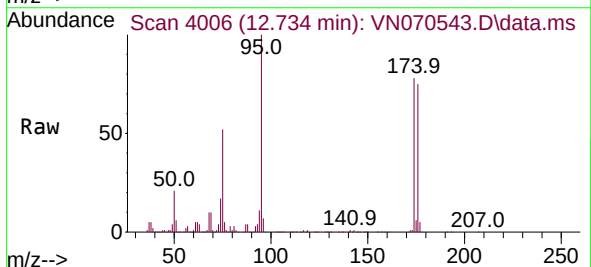
Instrument :
MSVOA_N
ClientSampleId :

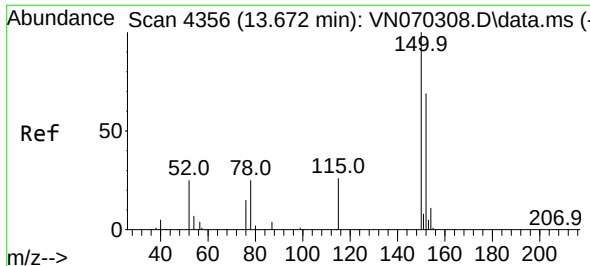
Tgt Ion:104 Resp: 7074
Ion Ratio Lower Upper
104 100
78 127.2 38.7 58.1#
103 107.0 45.0 67.6#



#71
Bromoform
Concen: 0.365 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.277 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

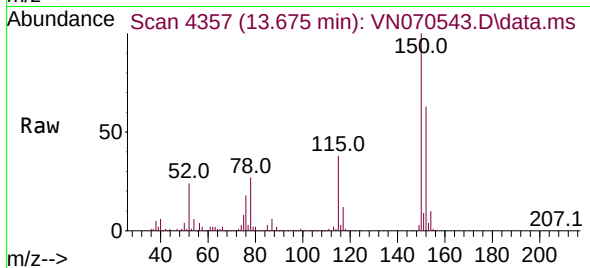
Tgt Ion:173 Resp: 2731
Ion Ratio Lower Upper
173 100
175 919.2 24.2 72.6#
254 0.0 0.0 0.0



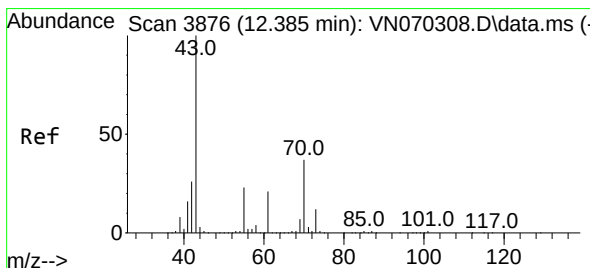
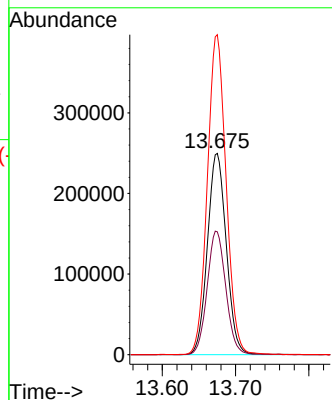
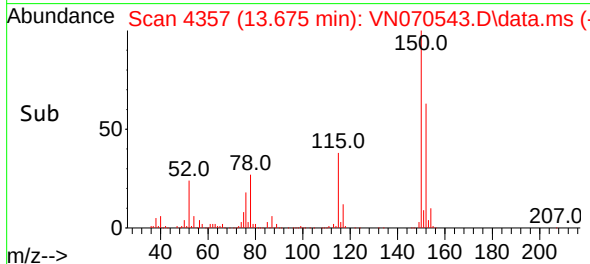


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.675 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VN070543.D
 Acq: 10 Jan 2022 15:13

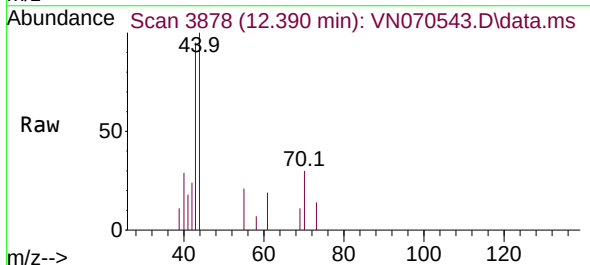
Instrument :
 MSVOA_N
 ClientSampleId :



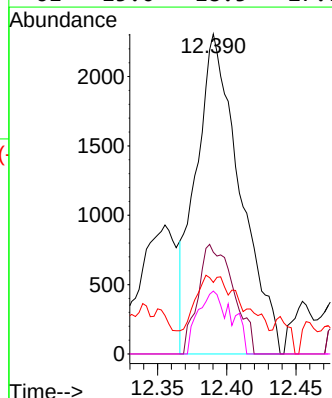
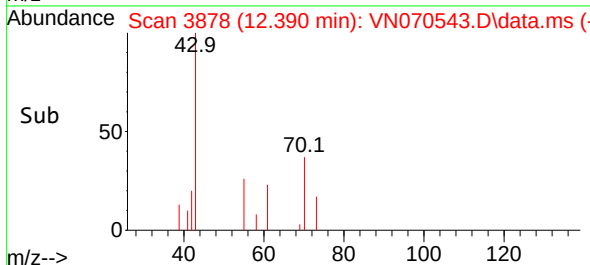
Tgt Ion:152 Resp: 446807
 Ion Ratio Lower Upper
 152 100
 115 60.7 27.5 82.5
 150 157.7 0.0 344.4

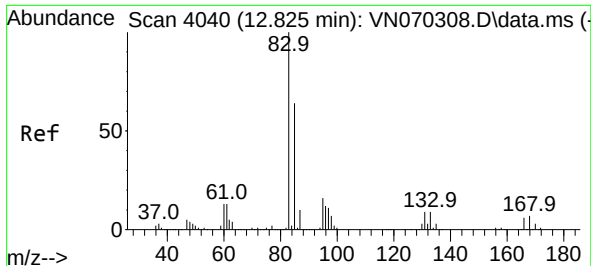


#74
 N-ethyl acetate
 Concen: 0.293 ug/l
 RT: 12.390 min Scan# 3878
 Delta R.T. 0.005 min
 Lab File: VN070543.D
 Acq: 10 Jan 2022 15:13



Tgt Ion: 43 Resp: 5117
 Ion Ratio Lower Upper
 43 100
 70 27.6 33.4 50.0#
 55 6.9 19.3 28.9#
 61 15.0 18.5 27.7#

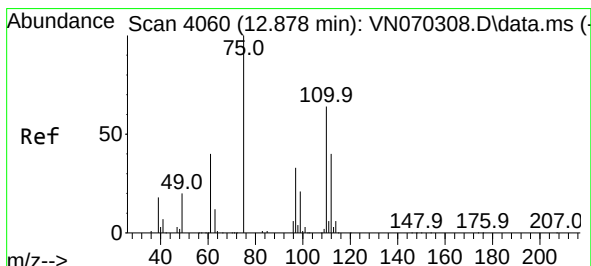
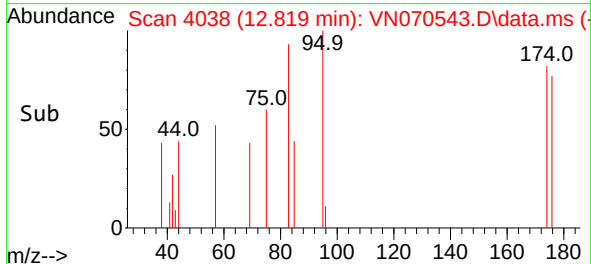
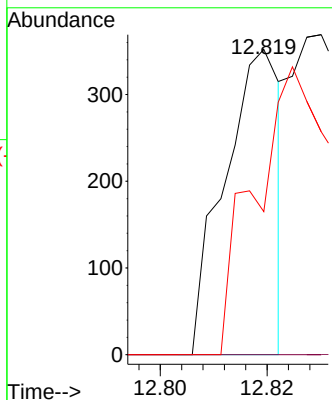
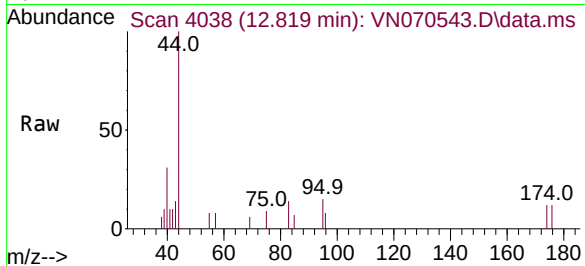




#75
1,1,2,2-Tetrachloroethane
Concen: 0.464 ug/l
RT: 12.819 min Scan# 4038
Delta R.T. -0.006 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

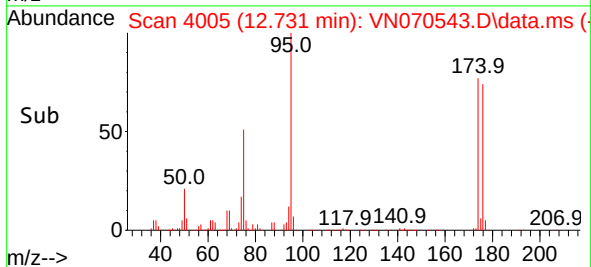
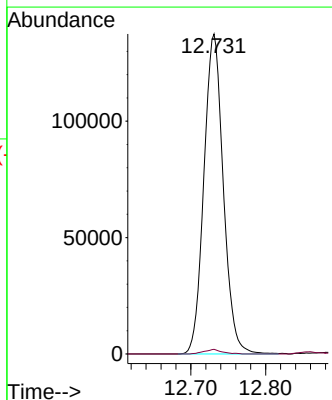
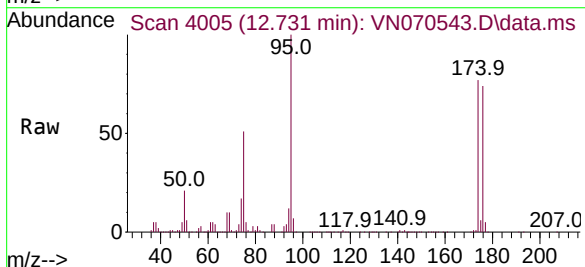
Instrument :
MSVOA_N
ClientSampleId :

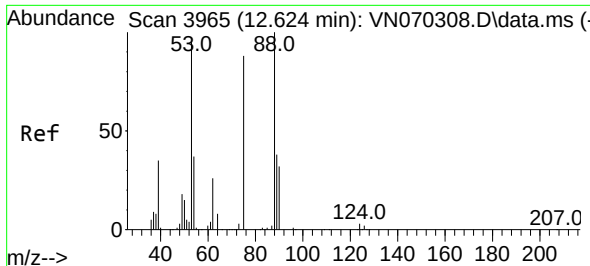
Tgt Ion: 83 Resp: 255
Ion Ratio Lower Upper
83 100
131 0.0 5.5 16.5#
85 134.5 32.4 97.2#



#76
1,2,3-Trichloropropane
Concen: 20.481 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.147 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

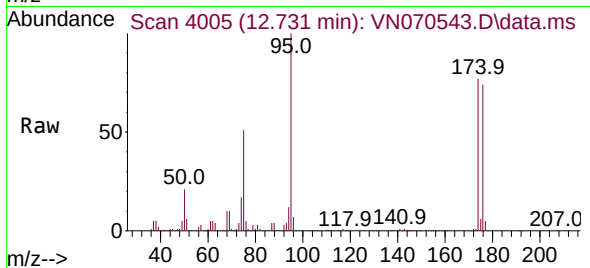
Tgt Ion: 75 Resp: 248327
Ion Ratio Lower Upper
75 100
77 1.3 82.6 247.8#



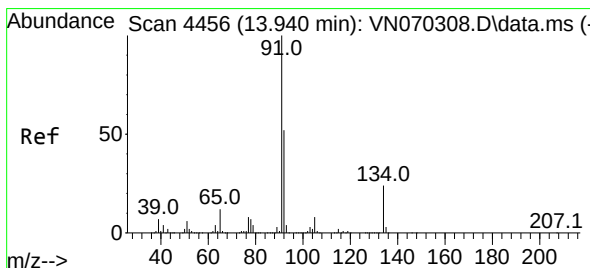
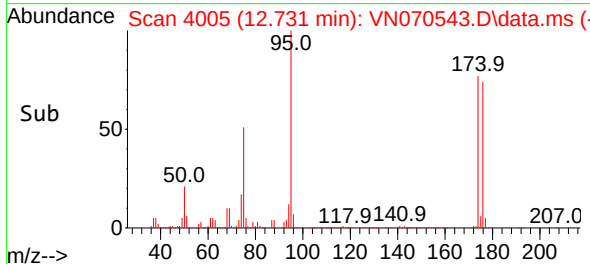
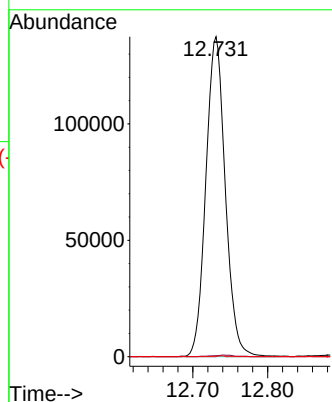


#81
trans-1,4-Dichloro-2-butene
Concen: 67.904 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.107 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

Instrument :
MSVOA_N
ClientSampleId :

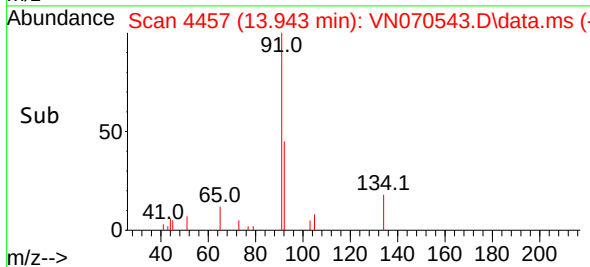
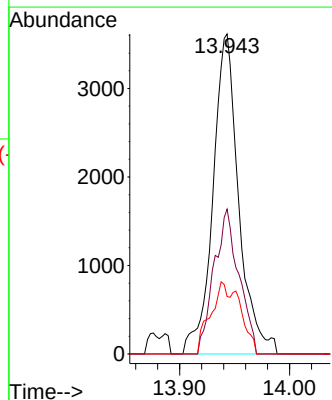
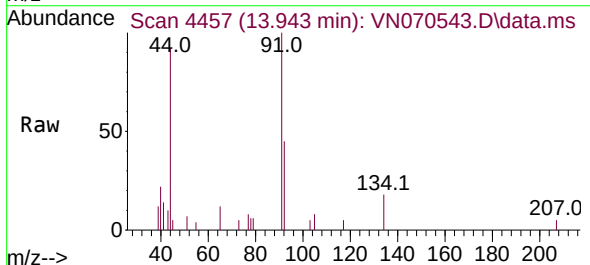


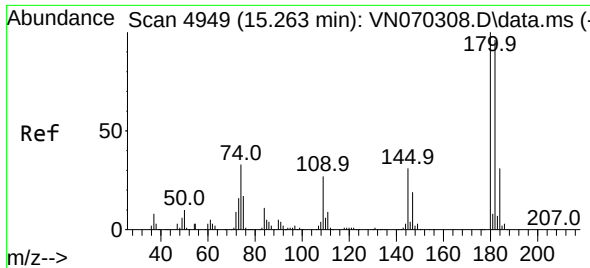
Tgt Ion: 75 Resp: 248327
Ion Ratio Lower Upper
75 100
53 0.6 90.5 135.7#
89 0.1 38.2 57.4#



#89
n-Butylbenzene
Concen: 0.227 ug/l
RT: 13.943 min Scan# 4457
Delta R.T. 0.003 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

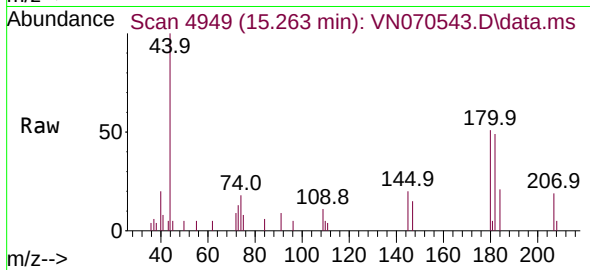
Tgt Ion: 91 Resp: 5900
Ion Ratio Lower Upper
91 100
92 43.6 25.4 76.0
134 16.3 13.6 40.8



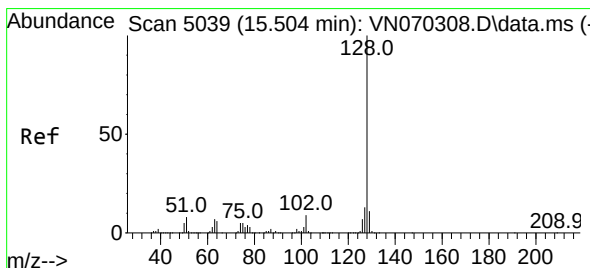
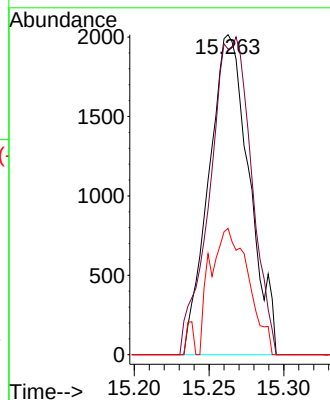
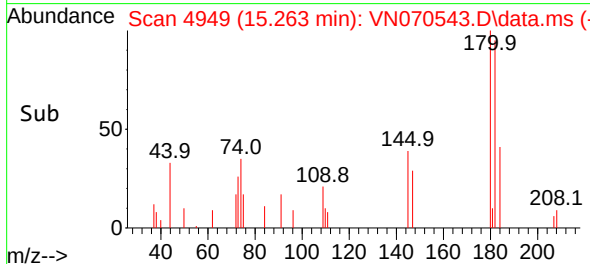


#93
1,2,4-Trichlorobenzene
Concen: 0.514 ug/l
RT: 15.263 min Scan# 4949
Delta R.T. -0.000 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13

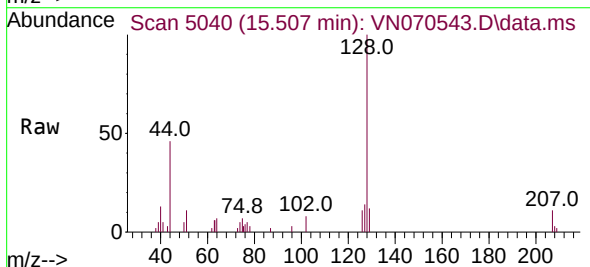
Instrument :
MSVOA_N
ClientSampleId :



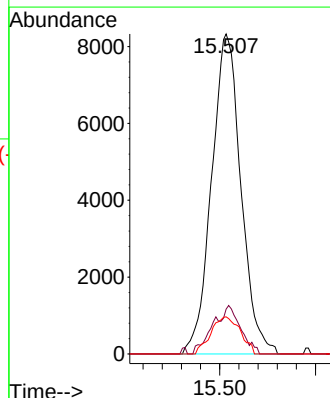
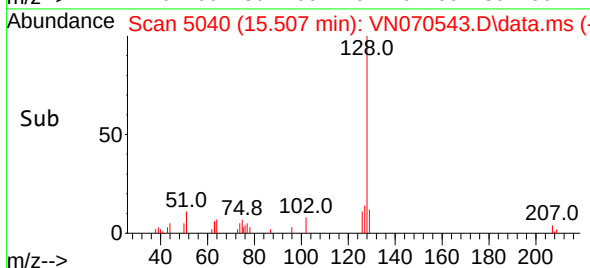
Tgt Ion:180 Resp: 3787
Ion Ratio Lower Upper
180 100
182 102.3 48.3 144.9
145 37.4 14.5 43.5

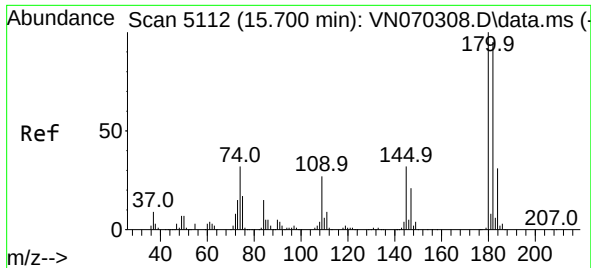


#95
Naphthalene
Concen: 2.635 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. 0.003 min
Lab File: VN070543.D
Acq: 10 Jan 2022 15:13



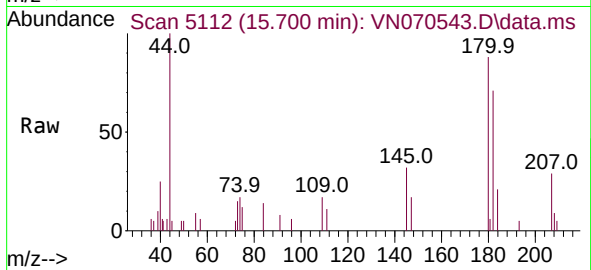
Tgt Ion:128 Resp: 17697
Ion Ratio Lower Upper
128 100
127 8.7 10.5 15.7#
129 11.6 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 1.454 ug/l
 RT: 15.700 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VN070543.D
 Acq: 10 Jan 2022 15:13

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	4502
Ion Ratio	Lower	Upper	
180	100		
182	95.8	47.4	142.2
145	31.7	15.0	45.1

