

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101221\
 Data File : VN068871.D
 Acq On : 12 Oct 2021 19:24
 Operator : JC/MD
 Sample : M4156-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 13 08:22:06 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N101221W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 13 05:44:40 2021
 Response via : Initial Calibration

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

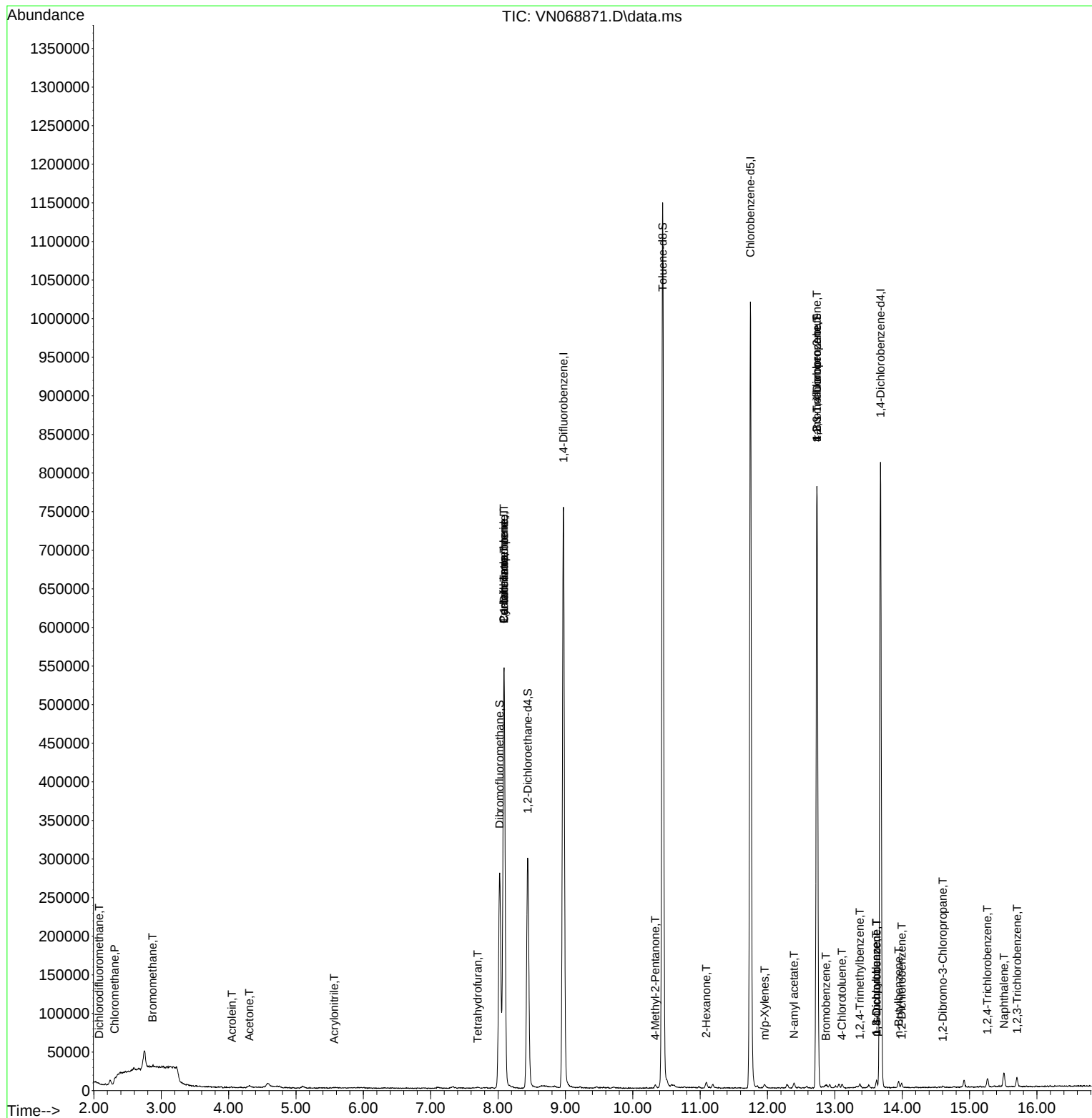
Internal Standards						
1) Pentafluorobenzene	8.088	168	423843	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	687401	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	599335	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	220435	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	252080	45.109	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	90.220%		
35) Dibromofluoromethane	8.024	113	206303	51.584	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	103.160%		
50) Toluene-d8	10.443	98	829325	51.826	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	103.660%		
62) 4-Bromofluorobenzene	12.734	95	287217	47.573	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	95.140%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.078	85	302	1.299	ug/l #	42
3) Chloromethane	2.306	50	1519	0.293	ug/l #	88
5) Bromomethane	2.869	94	1237	0.427	ug/l #	67
13) Acrolein	4.047	56	493	1.091	ug/l	97
15) Acrylonitrile	5.567	53	577	0.252	ug/l #	54
16) Acetone	4.307	43	5261	2.523	ug/l	89
29) Tetrahydrofuran	7.697	42	522	0.255	ug/l #	54
31) Cyclohexane	8.088	56	9524	1.096	ug/l #	2
36) 1,1-Dichloropropene	8.088	75	32846	5.594	ug/l #	49
38) Carbon Tetrachloride	8.088	117	43266	6.710	ug/l #	16
51) 4-Methyl-2-Pentanone	10.333	43	2607	0.420	ug/l #	82
59) 2-Hexanone	11.092	43	6463	1.453	ug/l	98
68) m/p-Xylenes	11.958	106	1647	0.206	ug/l	87
74) N-amyl acetate	12.393	43	4106	0.591	ug/l #	83
76) 1,2,3-Trichloropropane	12.734	75	144433	30.794	ug/l #	1
77) Bromobenzene	12.868	156	894	0.220	ug/l	89
81) trans-1,4-Dichloro-2-b...	12.734	75	144433	73.674	ug/l #	12
82) 4-Chlorotoluene	13.106	91	3749	0.305	ug/l	89
84) 1,2,4-Trimethylbenzene	13.369	105	3482	0.236	ug/l	96
86) p-Isopropyltoluene	13.616	119	3006	0.203	ug/l	90
87) 1,3-Dichlorobenzene	13.619	146	2259	0.322	ug/l	91
88) 1,4-Dichlorobenzene	13.619	146	2259	0.324	ug/l	90
89) n-Butylbenzene	13.946	91	5940	0.483	ug/l	95
91) 1,2-Dichlorobenzene	13.994	146	2519	0.370	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.603	75	405	0.396	ug/l	88
93) 1,2,4-Trichlorobenzene	15.265	180	3901	3.600	ug/l	99
95) Naphthalene	15.512	128	17341	5.378	ug/l	97
96) 1,2,3-Trichlorobenzene	15.705	180	4468	3.718	ug/l	98

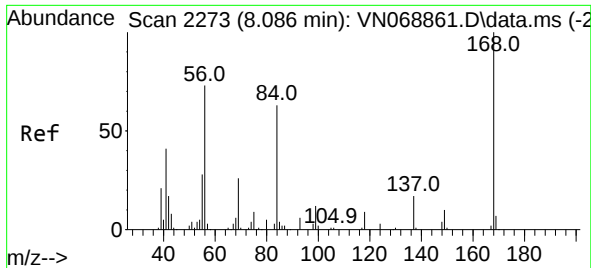
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101221\
Data File : VN068871.D
Acq On : 12 Oct 2021 19:24
Operator : JC/MD
Sample : M4156-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Oct 13 08:22:06 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N101221W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 13 05:44:40 2021
Response via : Initial Calibration

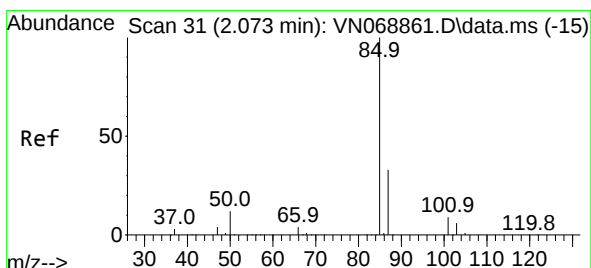
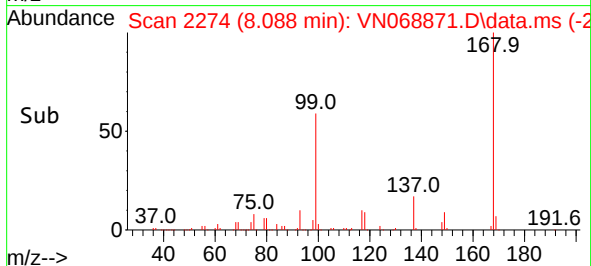
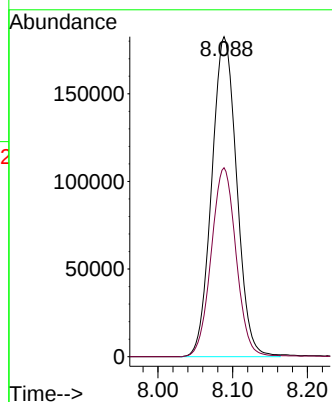
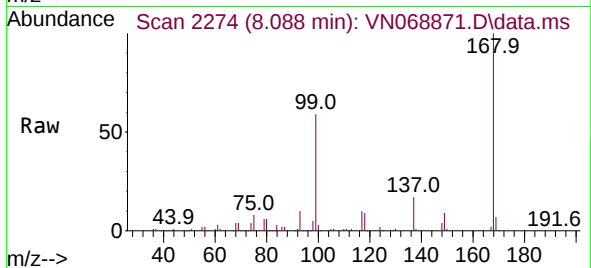




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

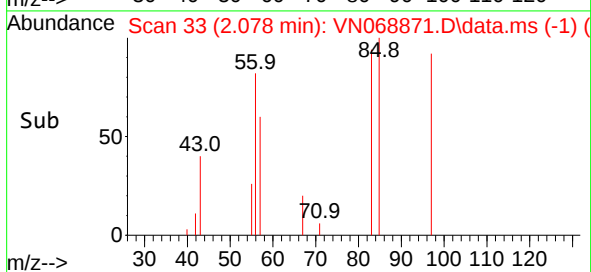
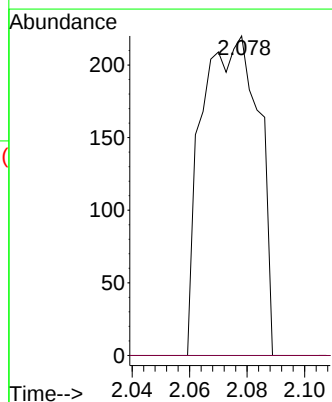
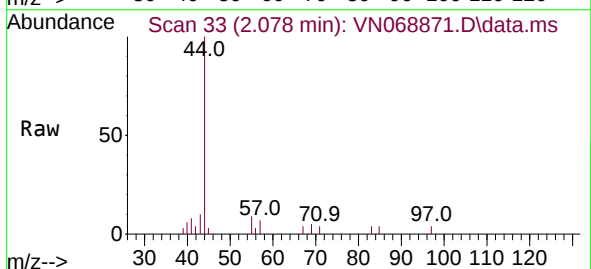
Instrument :
MSVOA_N
ClientSampled :

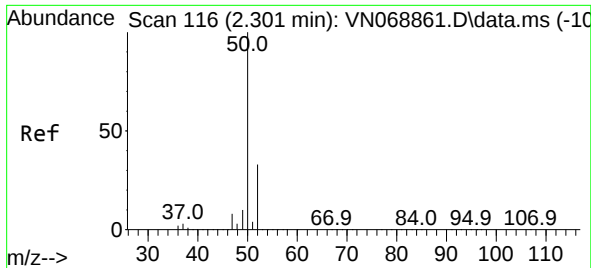
Tgt Ion:168 Resp: 423843
Ion Ratio Lower Upper
168 100
99 59.1 48.9 73.3



#2
Dichlorodifluoromethane
Concen: 1.299 ug/l
RT: 2.078 min Scan# 33
Delta R.T. 0.005 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

Tgt Ion: 85 Resp: 302
Ion Ratio Lower Upper
85 100
87 0.0 16.3 48.8#

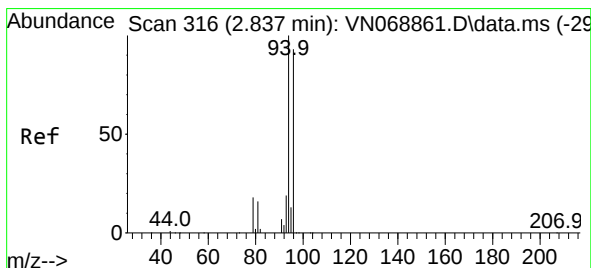
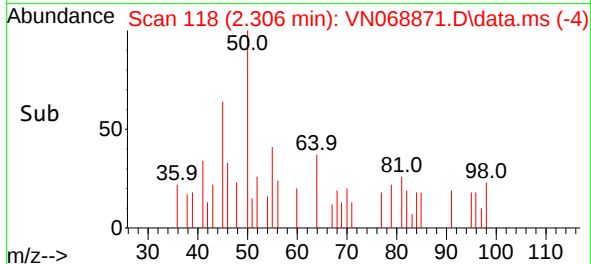
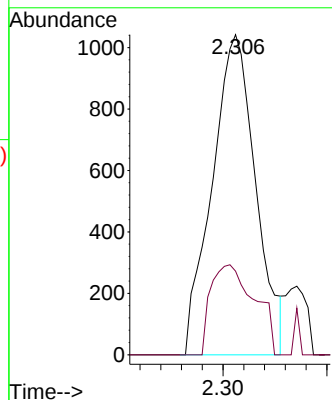
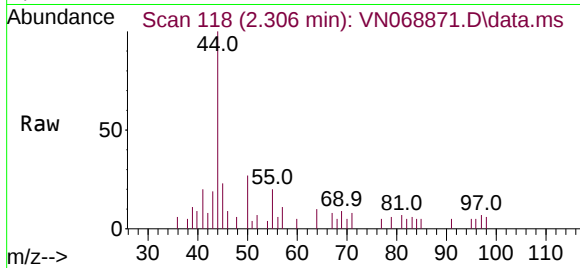




#3
Chloromethane
Concen: 0.293 ug/l
RT: 2.306 min Scan# 118
Delta R.T. 0.005 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

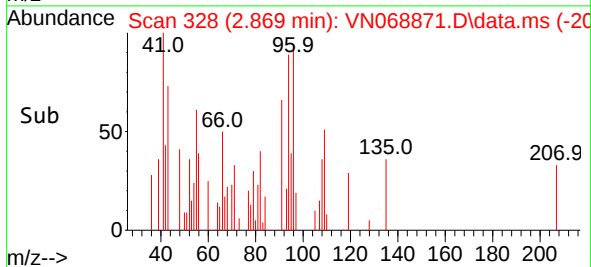
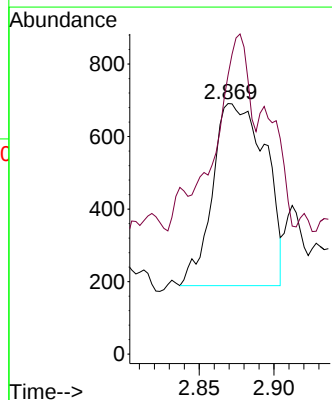
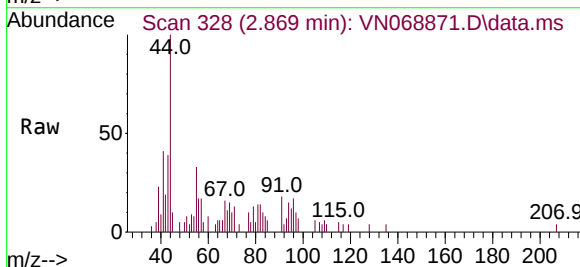
Instrument :
MSVOA_N
ClientSampled :

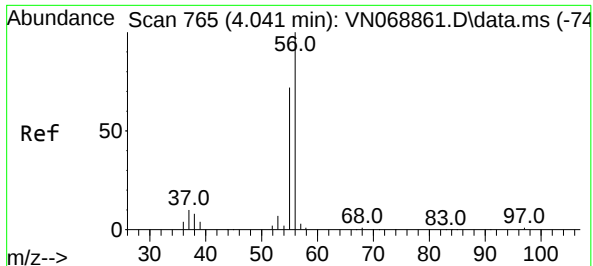
Tgt Ion: 50 Resp: 1519
Ion Ratio Lower Upper
50 100
52 26.1 26.3 39.5#



#5
Bromomethane
Concen: 0.427 ug/l
RT: 2.869 min Scan# 328
Delta R.T. 0.032 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

Tgt Ion: 94 Resp: 1237
Ion Ratio Lower Upper
94 100
96 61.6 74.2 111.4#

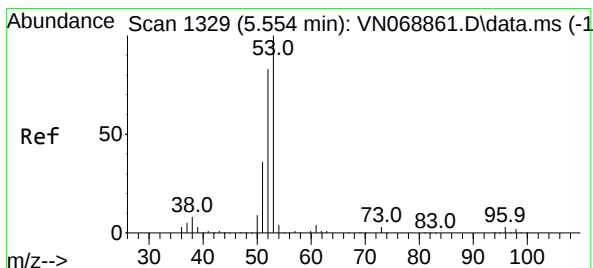
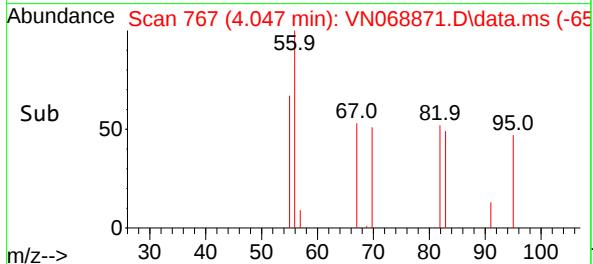
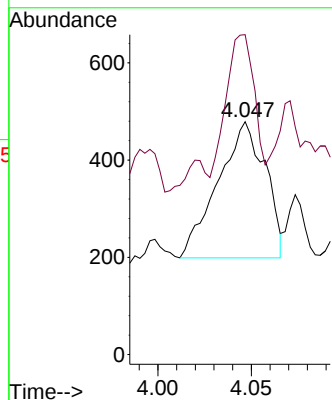
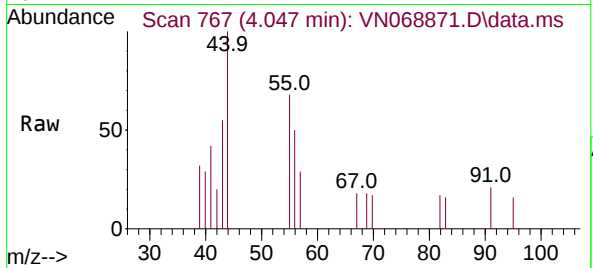




#13
Acrolein
Concen: 1.091 ug/l
RT: 4.047 min Scan# 767
Delta R.T. 0.005 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

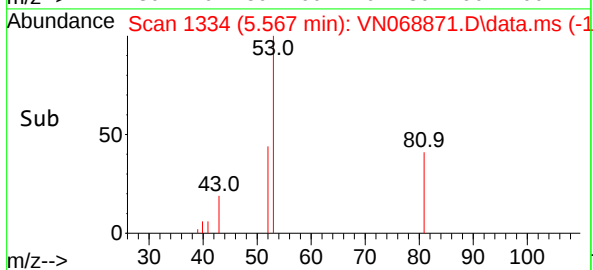
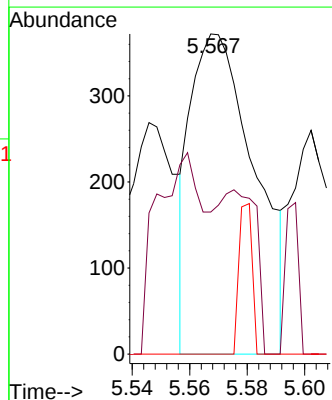
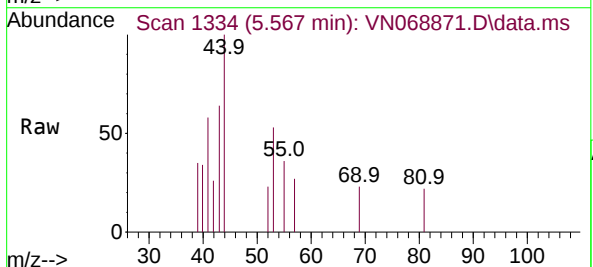
Instrument :
MSVOA_N
ClientSampled :

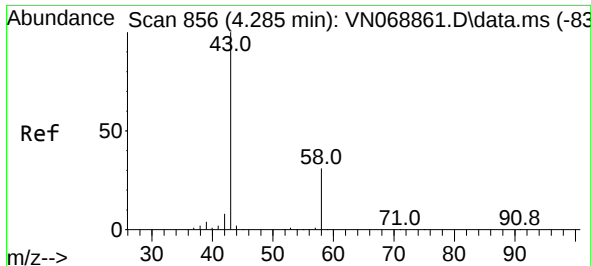
Tgt Ion: 56 Resp: 493
Ion Ratio Lower Upper
56 100
55 70.2 58.1 87.1



#15
Acrylonitrile
Concen: 0.252 ug/l
RT: 5.567 min Scan# 1334
Delta R.T. 0.013 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

Tgt Ion: 53 Resp: 577
Ion Ratio Lower Upper
53 100
52 47.1 65.7 98.5#
51 0.0 28.9 43.3#

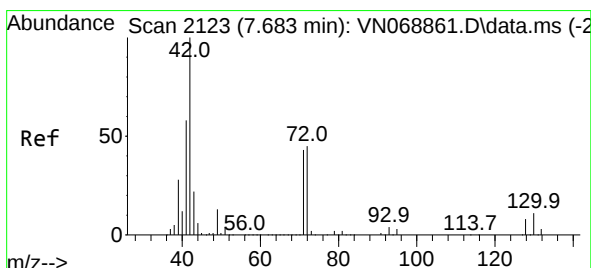
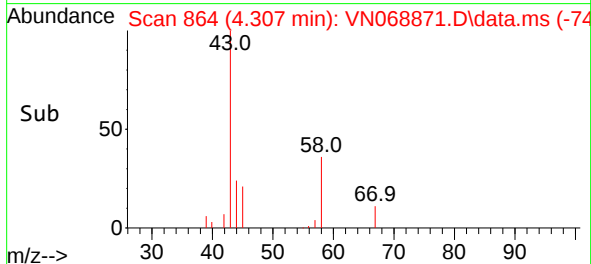
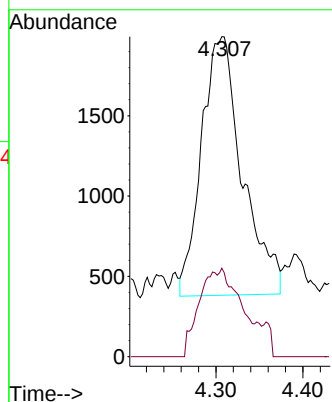
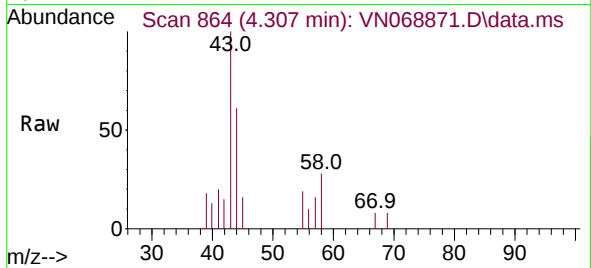




#16
Acetone
Concen: 2.523 ug/l
RT: 4.307 min Scan# 864
Delta R.T. 0.022 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

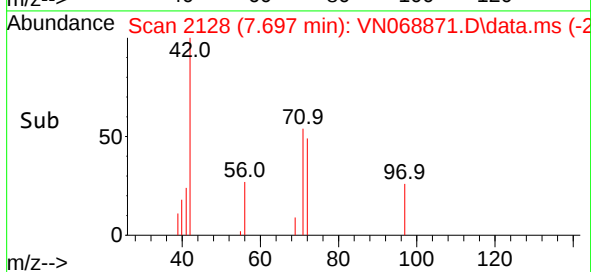
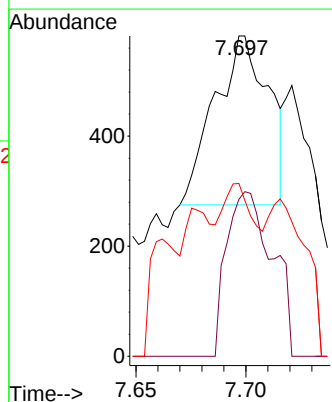
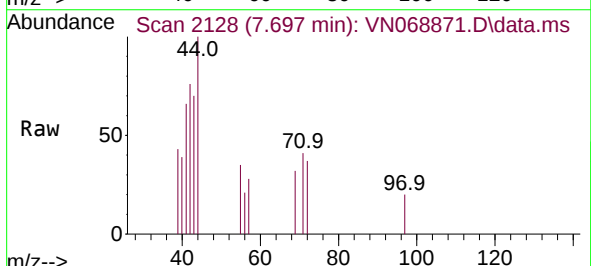
Instrument :
MSVOA_N
ClientSampled :

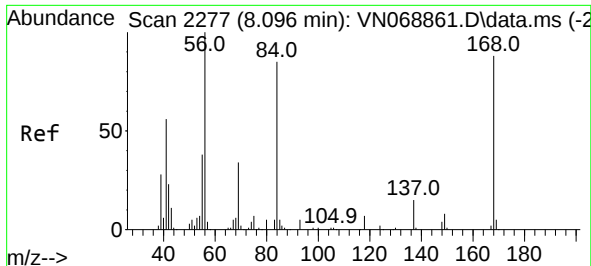
Tgt Ion: 43 Resp: 5261
Ion Ratio Lower Upper
43 100
58 36.6 24.5 36.7



#29
Tetrahydrofuran
Concen: 0.255 ug/l
RT: 7.697 min Scan# 2128
Delta R.T. 0.013 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

Tgt Ion: 42 Resp: 522
Ion Ratio Lower Upper
42 100
72 82.4 35.4 53.2#
71 21.8 33.8 50.6#

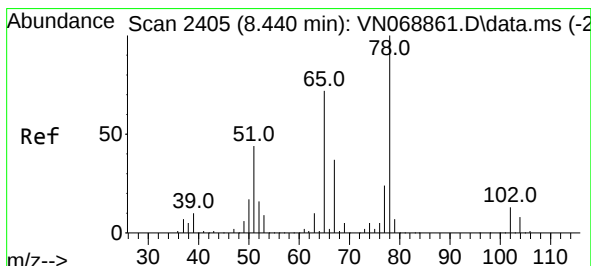
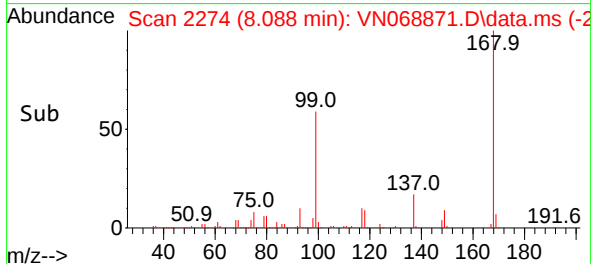
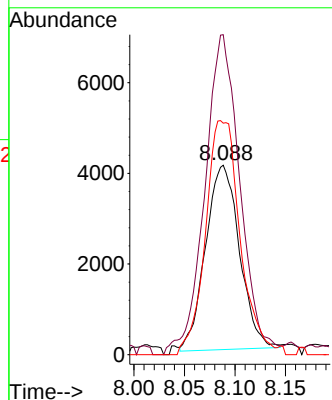
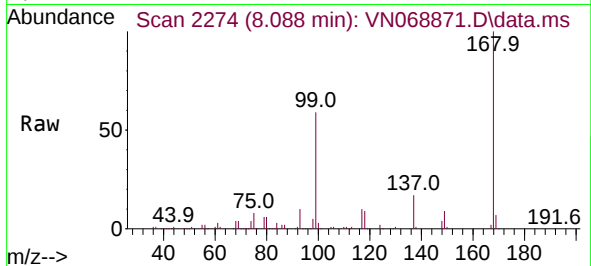




#31
Cyclohexane
Concen: 1.096 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.008 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

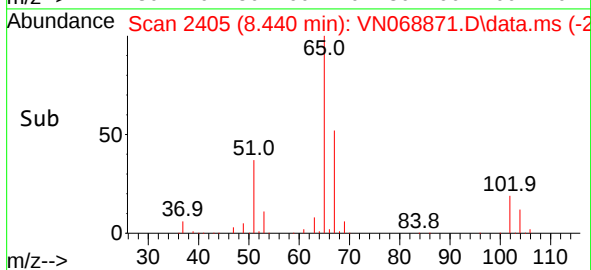
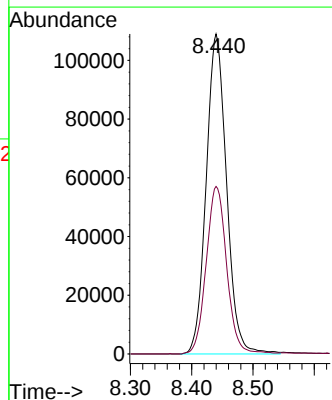
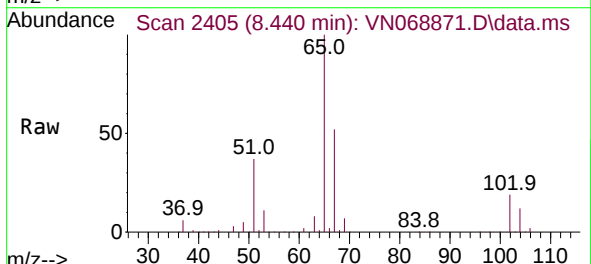
Instrument :
MSVOA_N
ClientSampled :

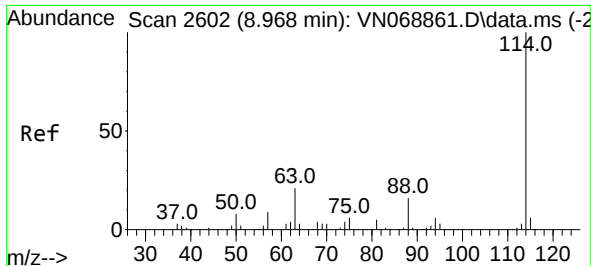
Tgt Ion: 56 Resp: 9524
Ion Ratio Lower Upper
56 100
69 170.7 26.9 40.3#
84 122.7 67.6 101.4#



#33
1,2-Dichloroethane-d4
Concen: 45.109 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.000 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

Tgt Ion: 65 Resp: 252080
Ion Ratio Lower Upper
65 100
67 52.8 0.0 103.8

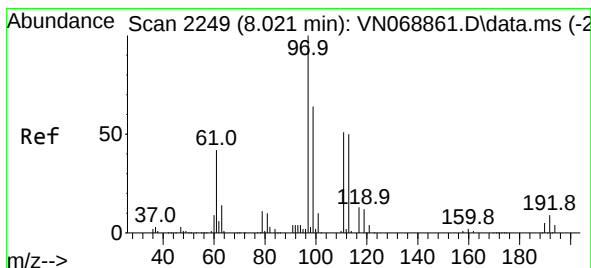
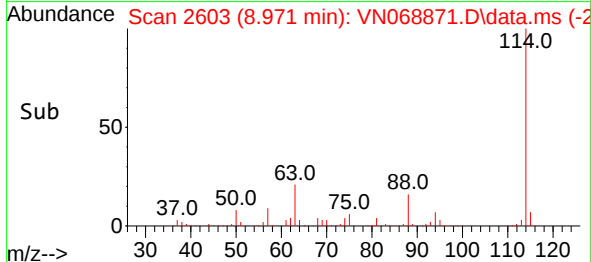
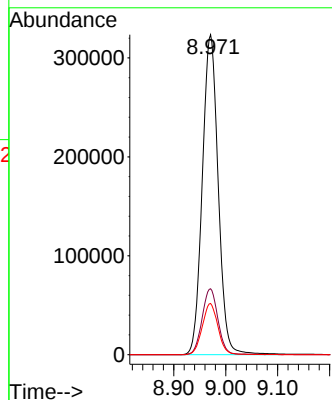
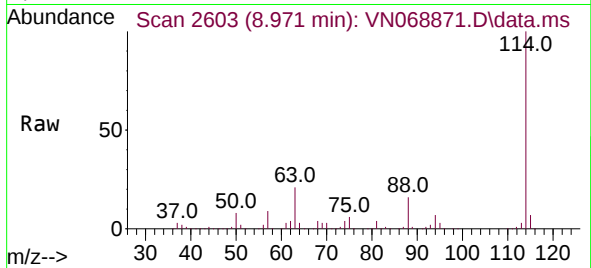




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

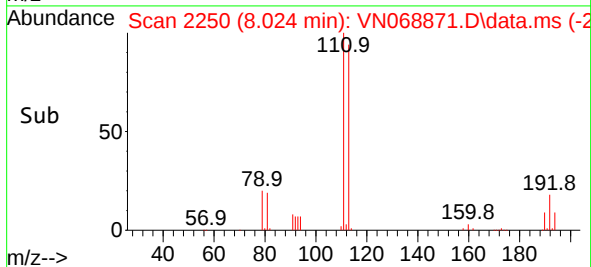
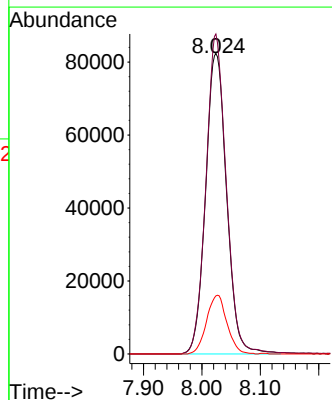
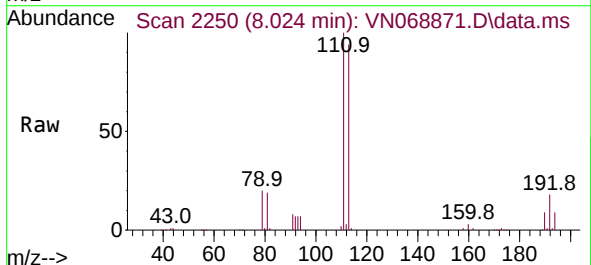
Instrument :
MSVOA_N
ClientSampled :

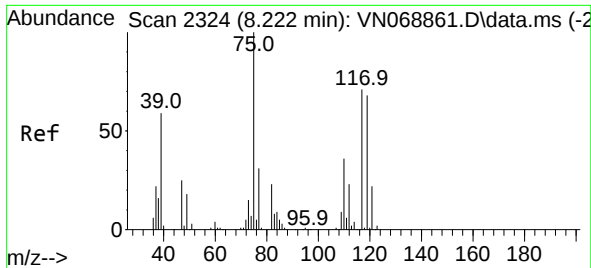
Tgt Ion:114 Resp: 687401
Ion Ratio Lower Upper
114 100
63 20.6 0.0 42.6
88 16.0 0.0 32.0



#35
Dibromofluoromethane
Concen: 51.584 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

Tgt Ion:113 Resp: 206303
Ion Ratio Lower Upper
113 100
111 103.3 83.2 124.8
192 18.9 15.0 22.4

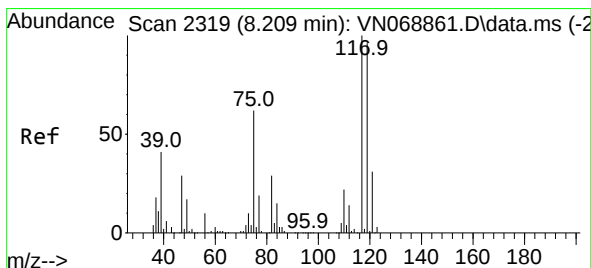
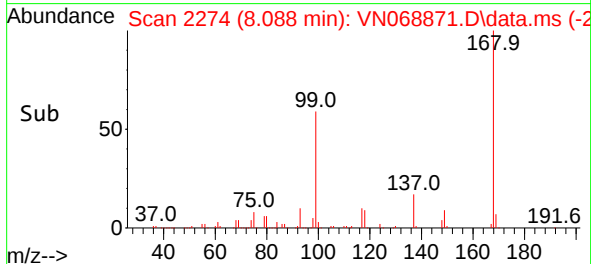
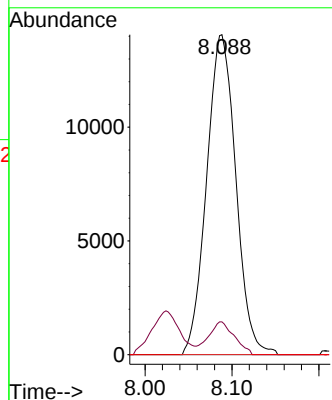
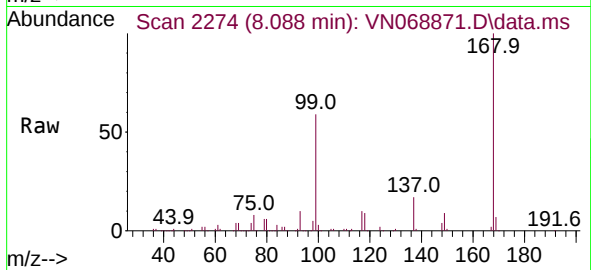




#36
1,1-Dichloropropene
Concen: 5.594 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.134 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

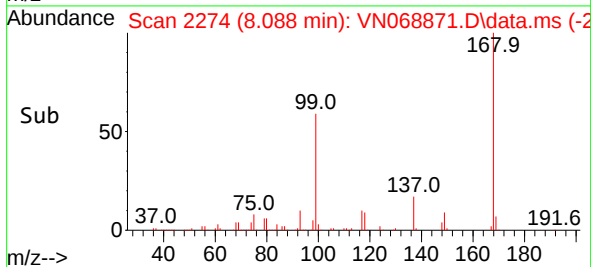
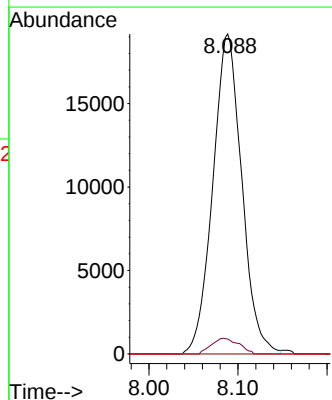
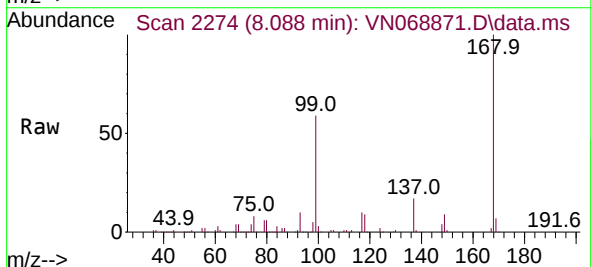
Instrument :
MSVOA_N
ClientSampled :

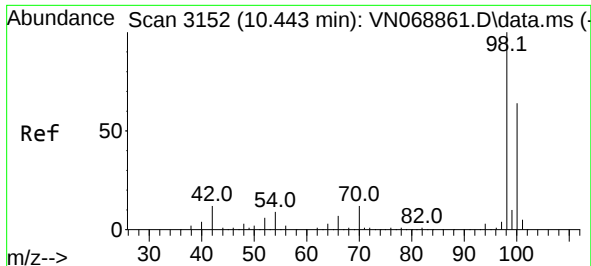
Tgt Ion: 75 Resp: 32846
Ion Ratio Lower Upper
75 100
110 9.1 17.9 53.8#
77 0.0 24.7 37.1#



#38
Carbon Tetrachloride
Concen: 6.710 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.121 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

Tgt Ion: 117 Resp: 43266
Ion Ratio Lower Upper
117 100
119 4.6 76.9 115.3#
121 0.0 24.6 37.0#

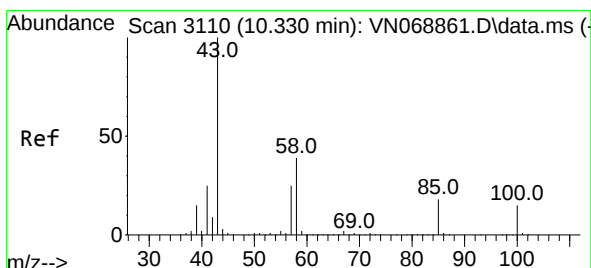
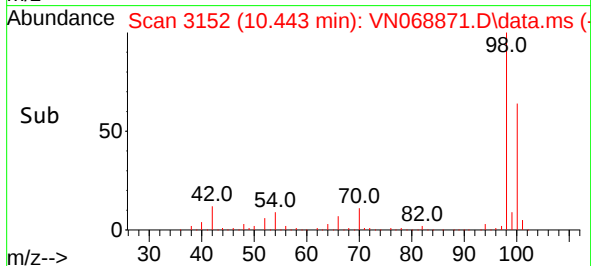
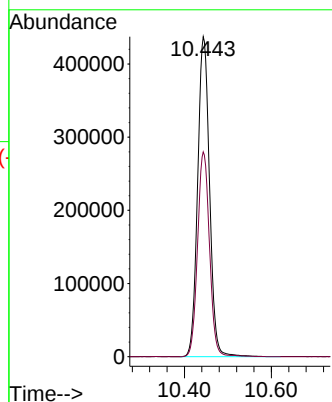
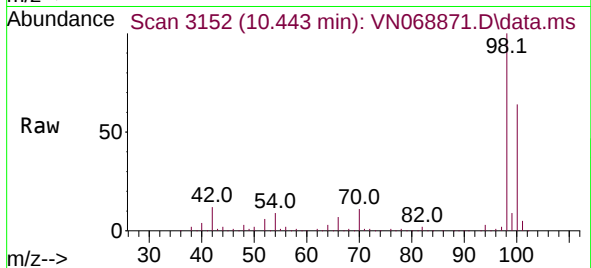




#50
Toluene-d8
Concen: 51.826 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

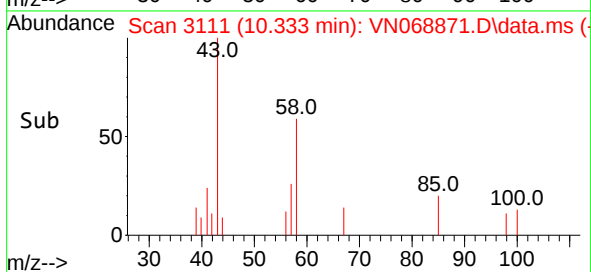
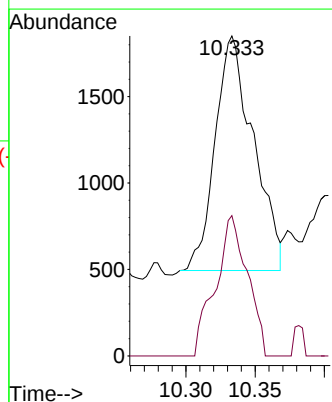
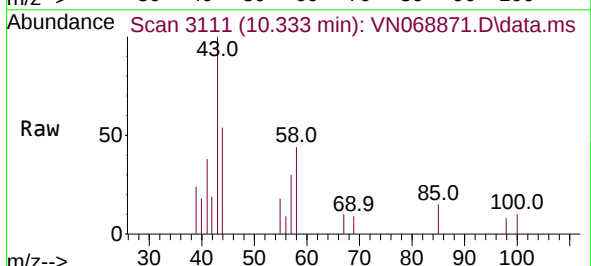
Instrument :
MSVOA_N
ClientSampled :

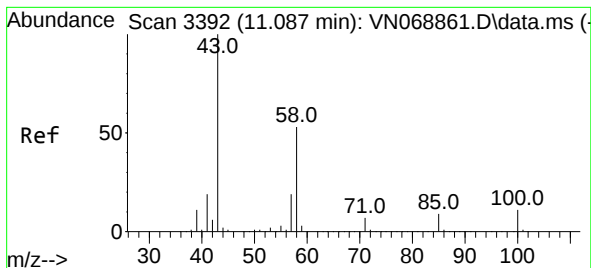
Tgt Ion: 98 Resp: 829325
Ion Ratio Lower Upper
98 100
100 64.3 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 0.420 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.003 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

Tgt Ion: 43 Resp: 2607
Ion Ratio Lower Upper
43 100
58 49.9 31.0 46.4#

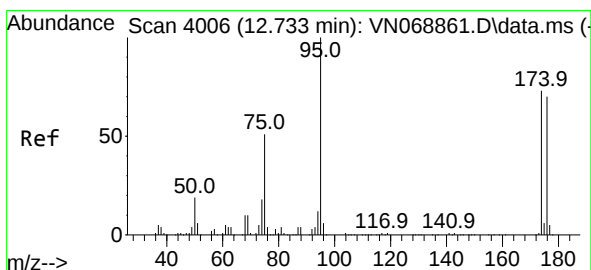
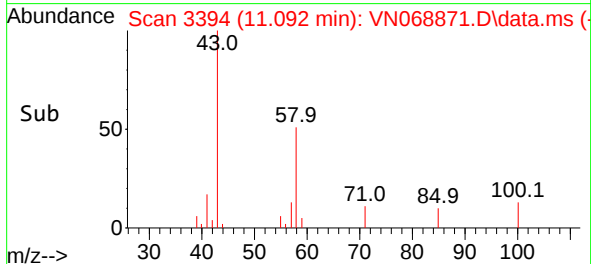
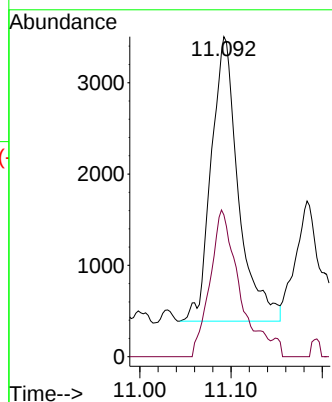
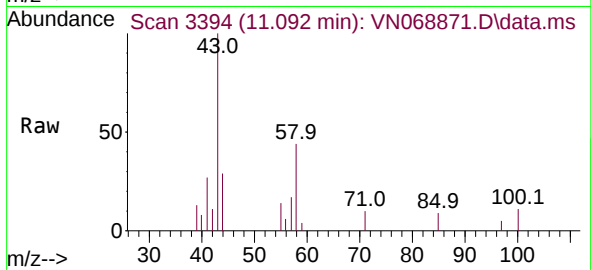




#59
2-Hexanone
Concen: 1.453 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

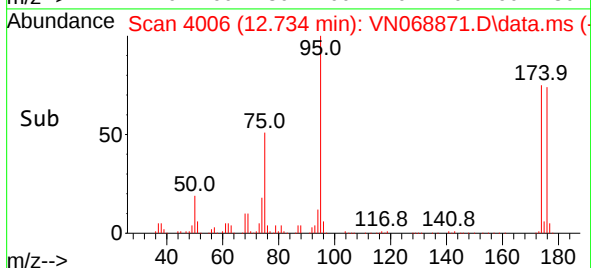
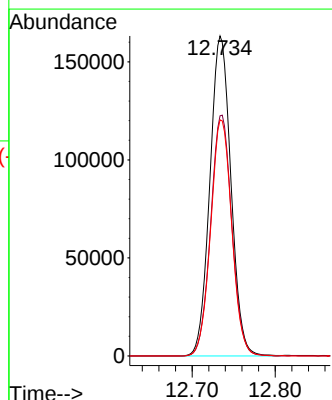
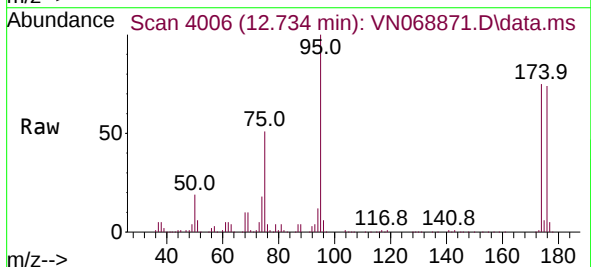
Instrument :
MSVOA_N
ClientSampled :

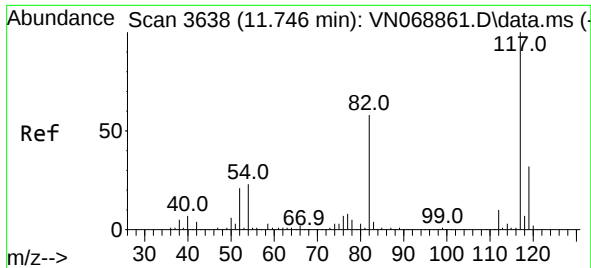
Tgt Ion: 43 Resp: 6463
Ion Ratio Lower Upper
43 100
58 55.0 26.9 80.7



#62
4-Bromofluorobenzene
Concen: 47.573 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

Tgt Ion: 95 Resp: 287217
Ion Ratio Lower Upper
95 100
174 75.7 0.0 144.8
176 73.9 0.0 140.0

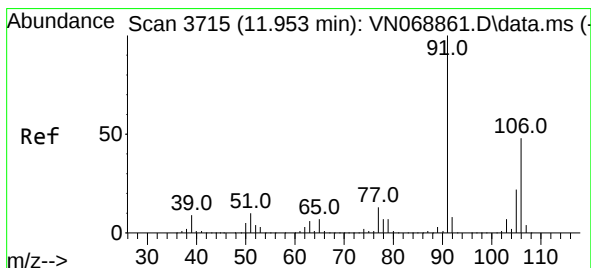
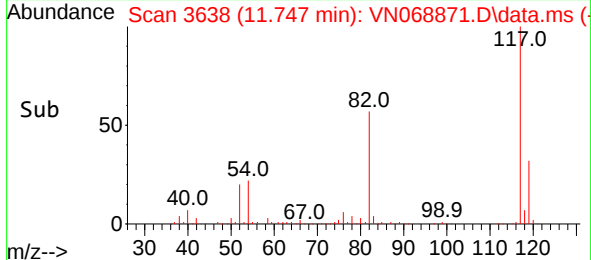
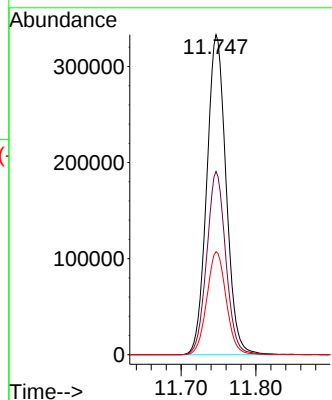
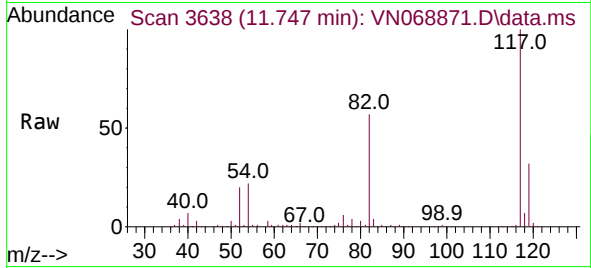




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

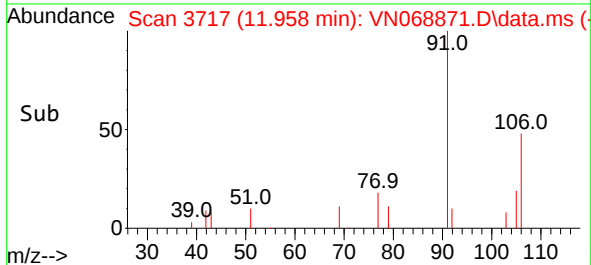
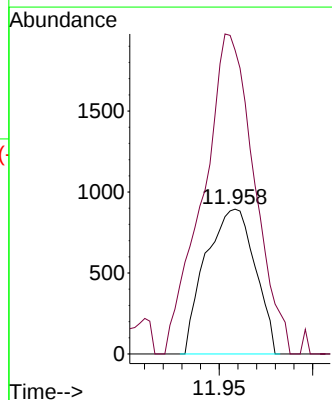
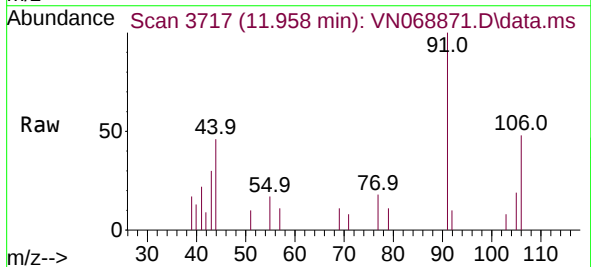
Instrument :
MSVOA_N
ClientSampled :

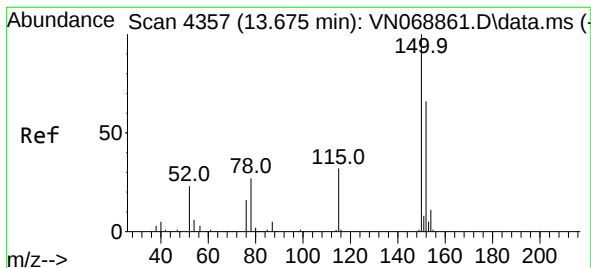
Tgt Ion:117 Resp: 599335
Ion Ratio Lower Upper
117 100
82 57.3 46.4 69.6
119 32.2 26.0 39.0



#68
m/p-Xylenes
Concen: 0.206 ug/l
RT: 11.958 min Scan# 3717
Delta R.T. 0.005 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

Tgt Ion:106 Resp: 1647
Ion Ratio Lower Upper
106 100
91 228.2 166.8 250.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.678 min Scan# 4358

Delta R.T. 0.003 min

Lab File: VN068871.D

Acq: 12 Oct 2021 19:24

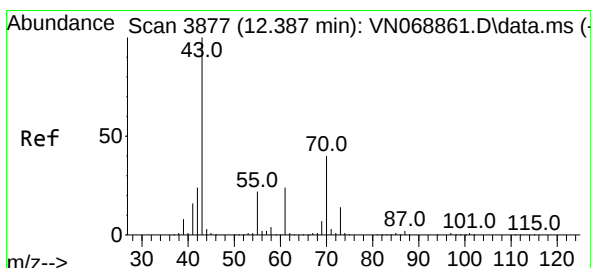
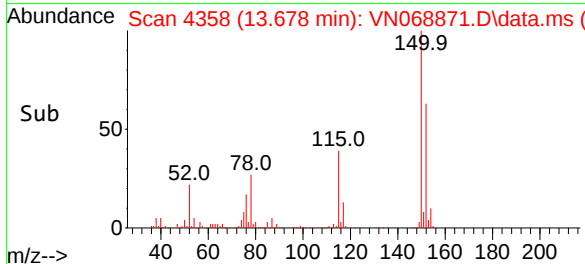
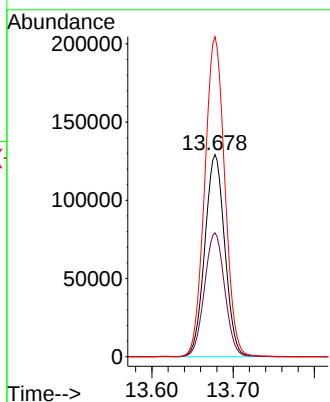
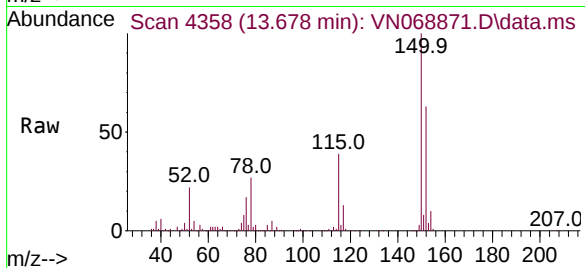
Tgt Ion:152 Resp: 220435

Ion Ratio Lower Upper

152 100

115 62.3 31.4 94.3

150 159.4 0.0 351.0



#74

N-ethyl acetate

Concen: 0.591 ug/l

RT: 12.393 min Scan# 3879

Delta R.T. 0.005 min

Lab File: VN068871.D

Acq: 12 Oct 2021 19:24

Tgt Ion: 43 Resp: 4106

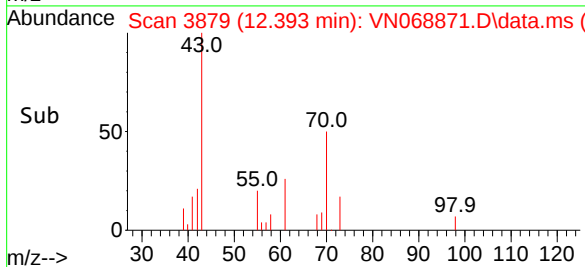
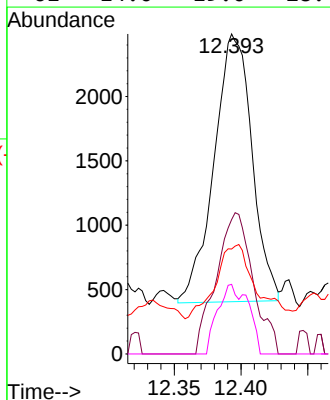
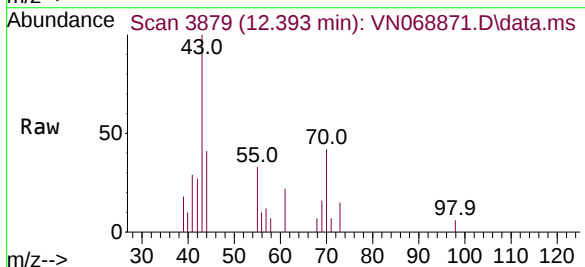
Ion Ratio Lower Upper

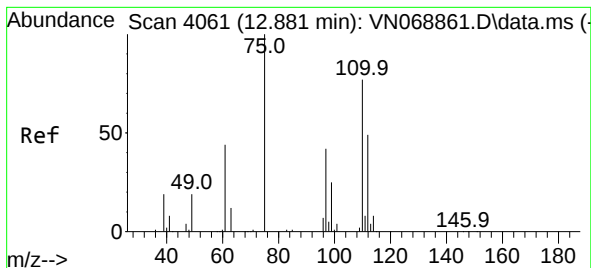
43 100

70 51.0 32.2 48.2#

55 28.9 18.0 27.0#

61 14.0 19.0 28.4#





#76

1,2,3-Trichloropropane

Concen: 30.794 ug/l

RT: 12.734 min Scan# 4006

Delta R.T. -0.147 min

Lab File: VN068871.D

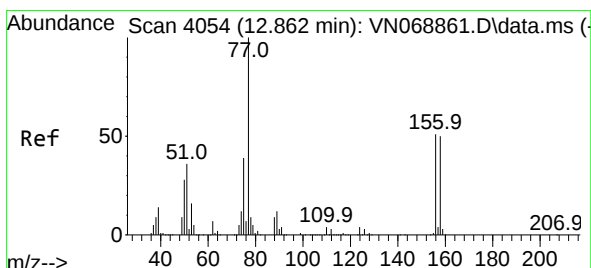
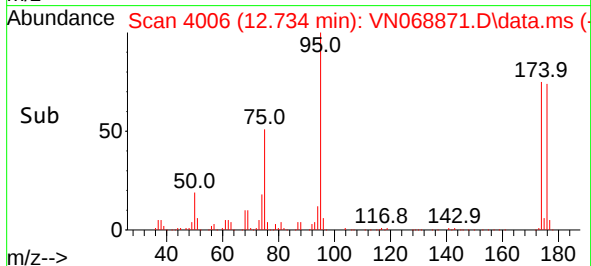
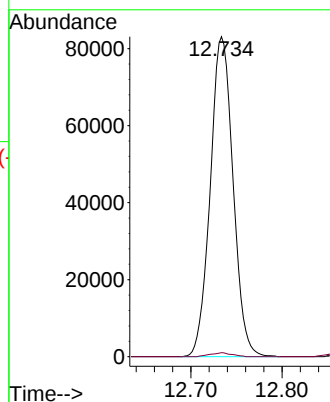
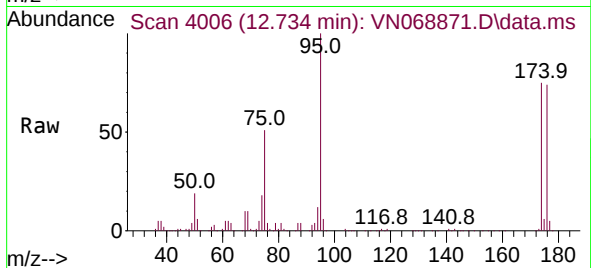
Acq: 12 Oct 2021 19:24

Tgt Ion: 75 Resp: 144433

Ion Ratio Lower Upper

75 100

77 1.2 96.2 288.4#



#77

Bromobenzene

Concen: 0.220 ug/l

RT: 12.868 min Scan# 4056

Delta R.T. 0.005 min

Lab File: VN068871.D

Acq: 12 Oct 2021 19:24

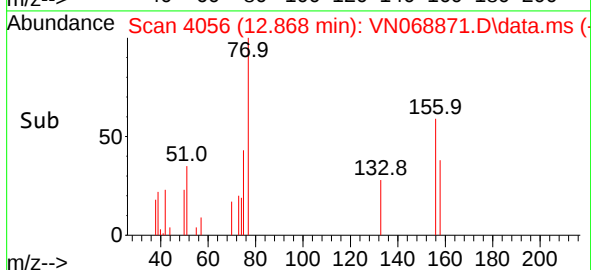
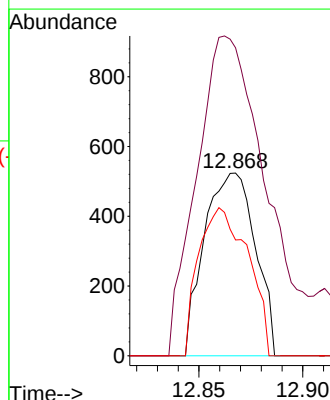
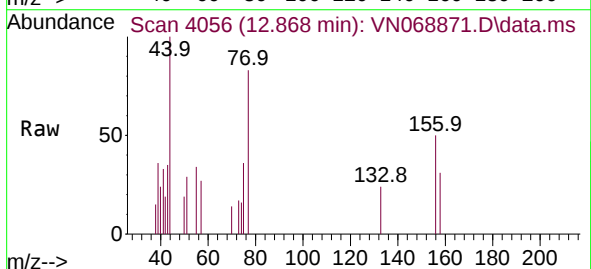
Tgt Ion:156 Resp: 894

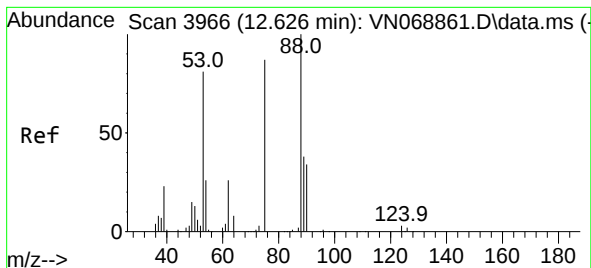
Ion Ratio Lower Upper

156 100

77 237.0 111.8 335.3

158 78.5 48.4 145.0

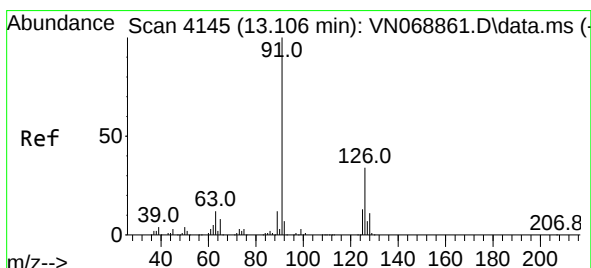
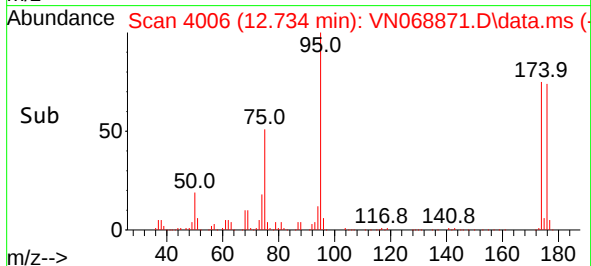
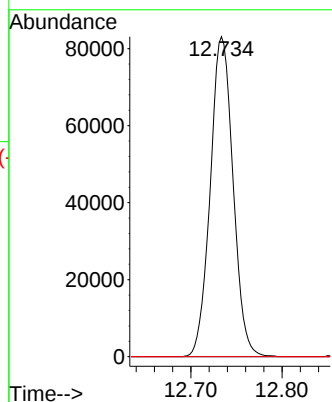
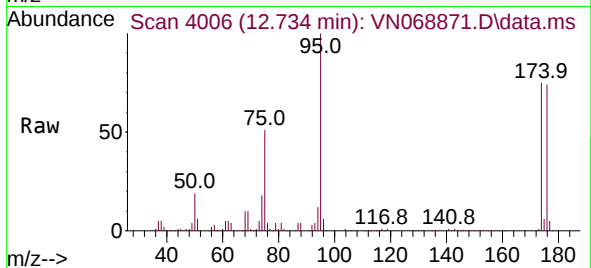




#81
trans-1,4-Dichloro-2-butene
Concen: 73.674 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

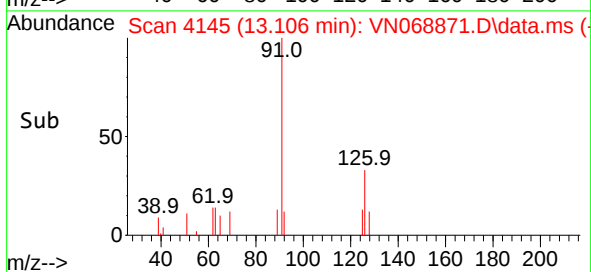
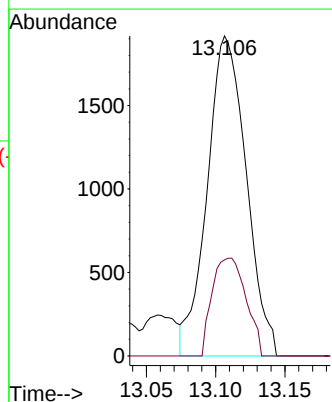
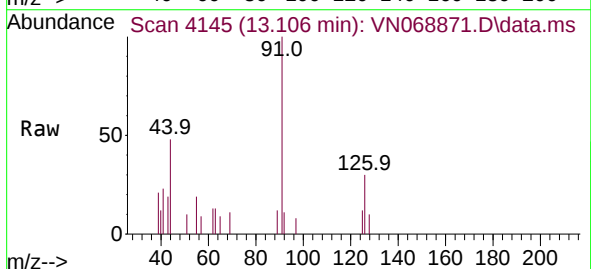
Instrument :
MSVOA_N
ClientSampled :

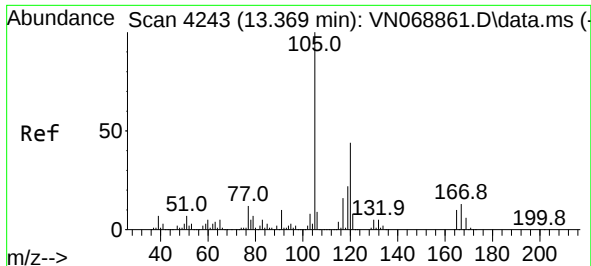
Tgt Ion: 75 Resp: 144433
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#



#82
4-Chlorotoluene
Concen: 0.305 ug/l
RT: 13.106 min Scan# 4145
Delta R.T. 0.000 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

Tgt Ion: 91 Resp: 3749
Ion Ratio Lower Upper
91 100
126 26.5 16.3 48.8

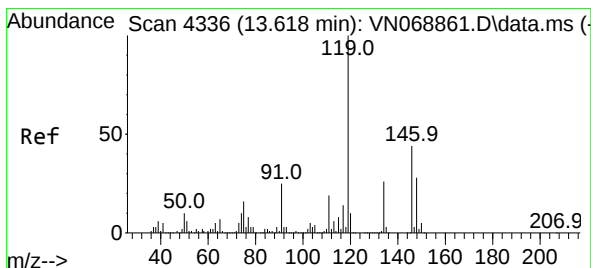
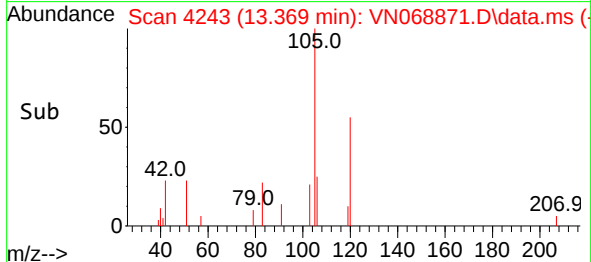
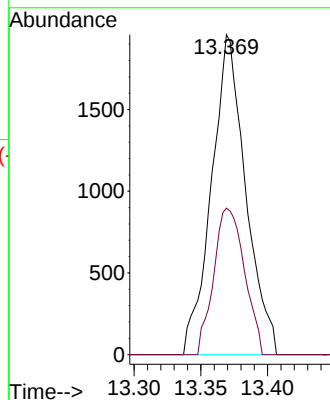
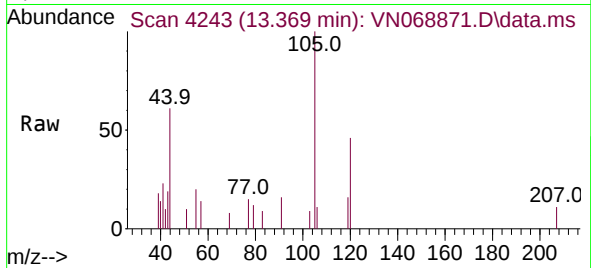




#84
1,2,4-Trimethylbenzene
Concen: 0.236 ug/l
RT: 13.369 min Scan# 4243
Delta R.T. 0.000 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

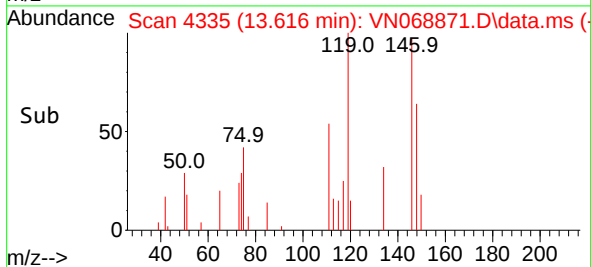
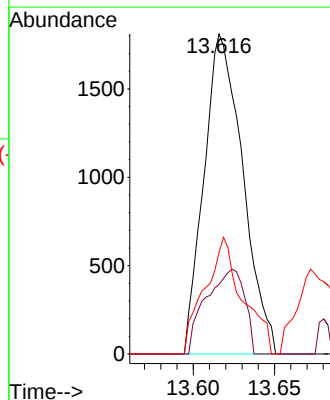
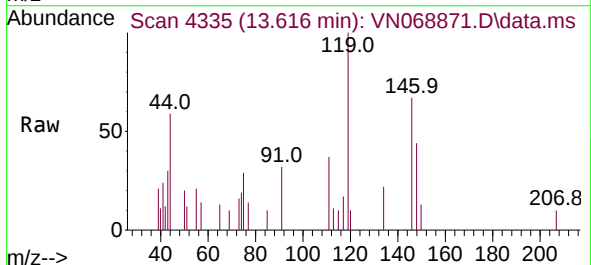
Instrument :
MSVOA_N
ClientSampled :

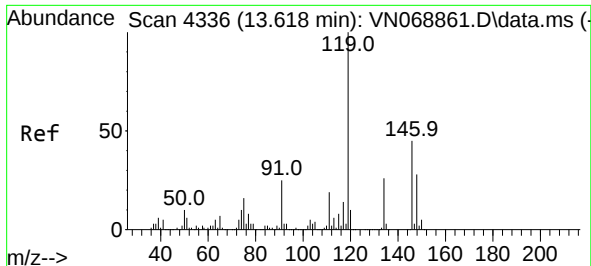
Tgt Ion:105 Resp: 3482
Ion Ratio Lower Upper
105 100
120 41.2 21.9 65.5



#86
p-Isopropyltoluene
Concen: 0.203 ug/l
RT: 13.616 min Scan# 4335
Delta R.T. -0.003 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

Tgt Ion:119 Resp: 3006
Ion Ratio Lower Upper
119 100
134 26.2 12.9 38.6
91 35.6 12.8 38.4

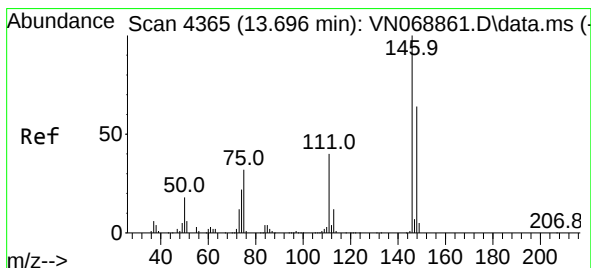
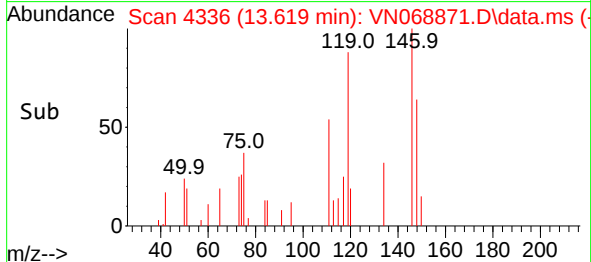
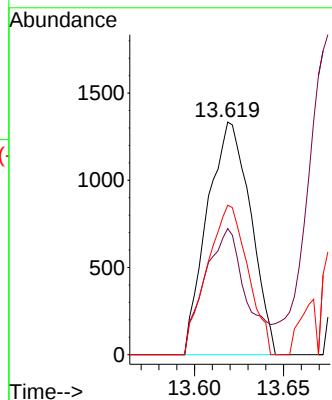
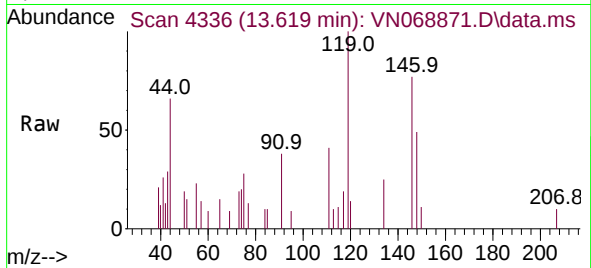




#87
1,3-Dichlorobenzene
Concen: 0.322 ug/l
RT: 13.619 min Scan# 4336
Delta R.T. 0.000 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

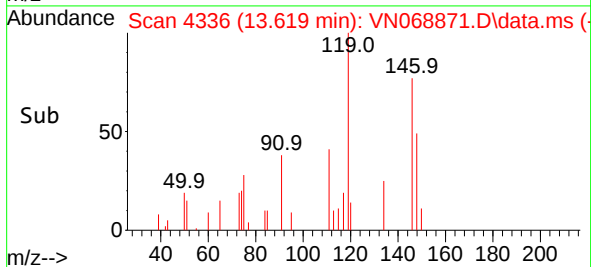
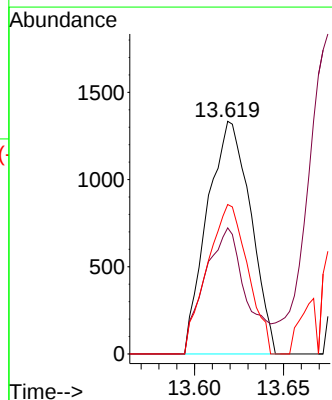
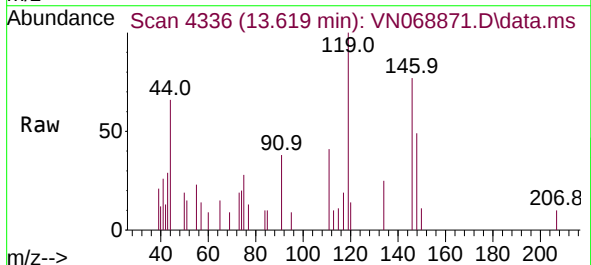
Instrument :
MSVOA_N
ClientSampleId :

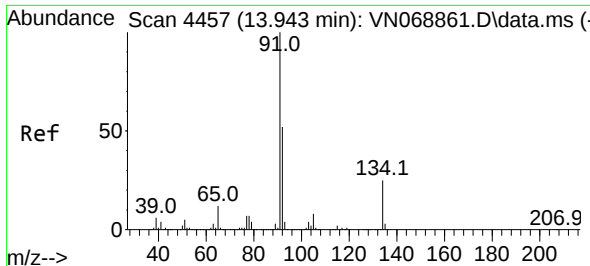
Tgt Ion:146 Resp: 2259
Ion Ratio Lower Upper
146 100
111 51.9 21.4 64.2
148 60.5 32.0 96.2



#88
1,4-Dichlorobenzene
Concen: 0.324 ug/l
RT: 13.619 min Scan# 4336
Delta R.T. -0.078 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

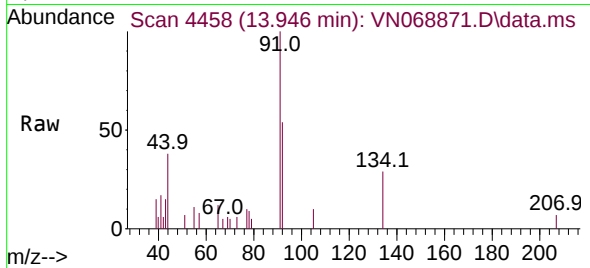
Tgt Ion:146 Resp: 2259
Ion Ratio Lower Upper
146 100
111 51.9 20.6 61.8
148 60.5 32.1 96.5



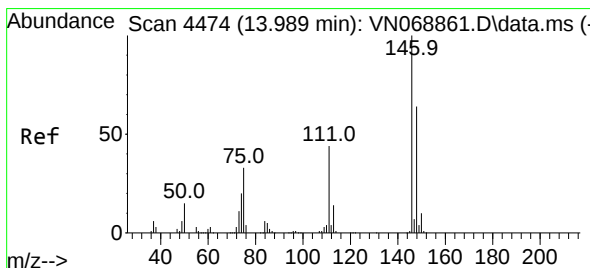
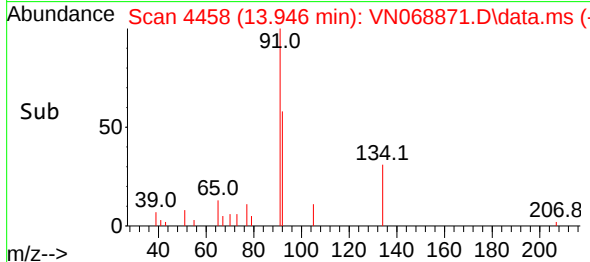
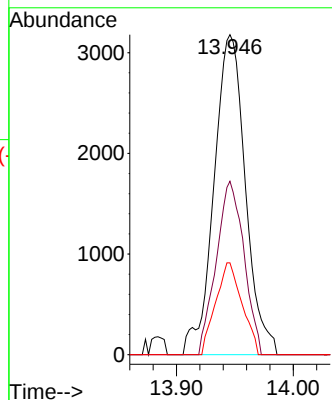


#89
n-Butylbenzene
Concen: 0.483 ug/l
RT: 13.946 min Scan# 4458
Delta R.T. 0.003 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

Instrument :
MSVOA_N
ClientSampleId :

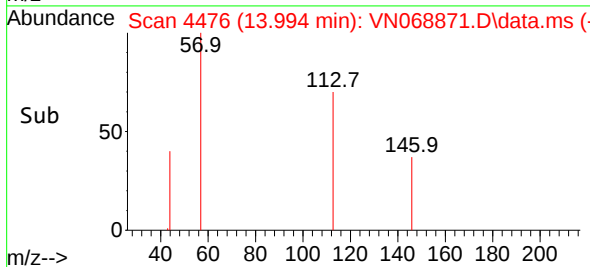
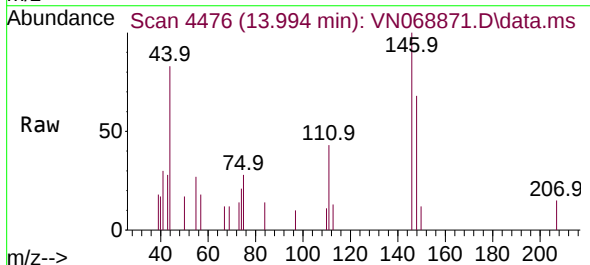
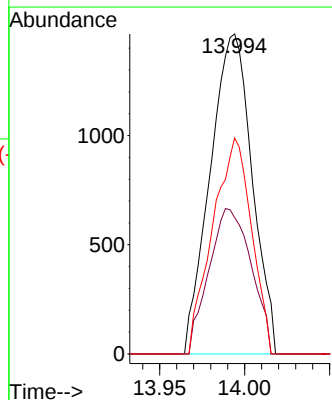


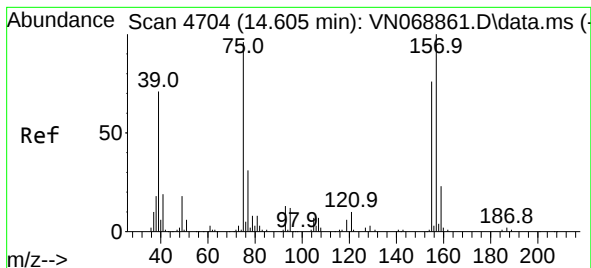
Tgt Ion: 91 Resp: 5940
Ion Ratio Lower Upper
91 100
92 47.7 26.0 78.0
134 24.1 12.5 37.5



#91
1,2-Dichlorobenzene
Concen: 0.370 ug/l
RT: 13.994 min Scan# 4476
Delta R.T. 0.005 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

Tgt Ion: 146 Resp: 2519
Ion Ratio Lower Upper
146 100
111 45.8 22.0 66.0
148 62.5 32.1 96.5

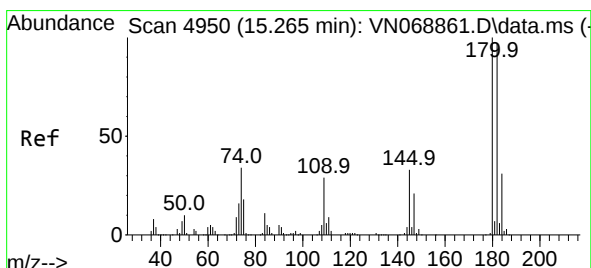
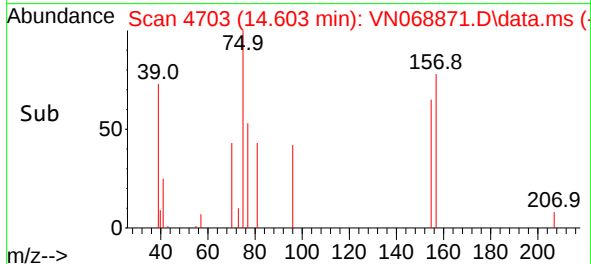
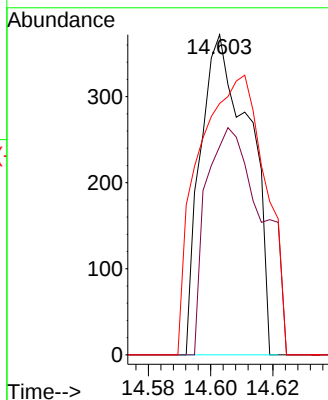
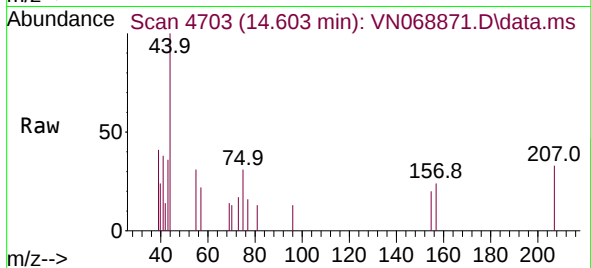




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.396 ug/l
 RT: 14.603 min Scan# 4703
 Delta R.T. -0.003 min
 Lab File: VN068871.D
 Acq: 12 Oct 2021 19:24

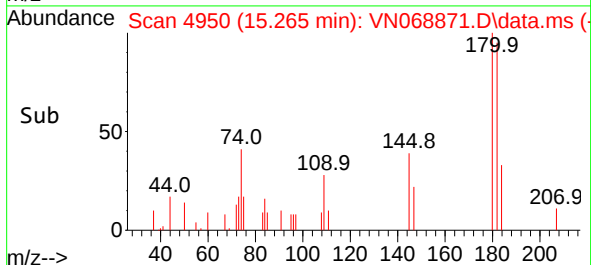
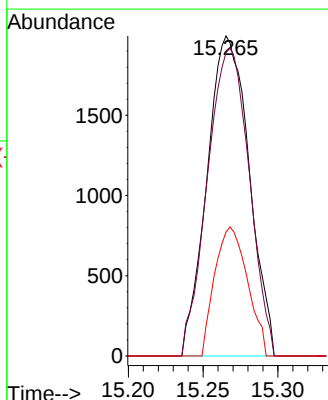
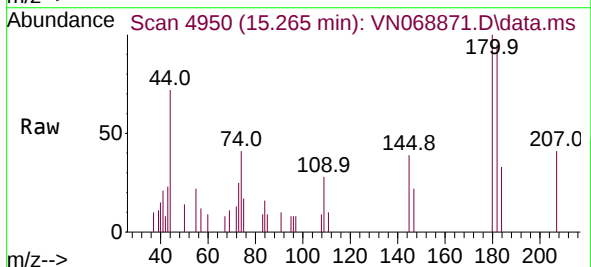
Instrument :
 MSVOA_N
 ClientSampleId :

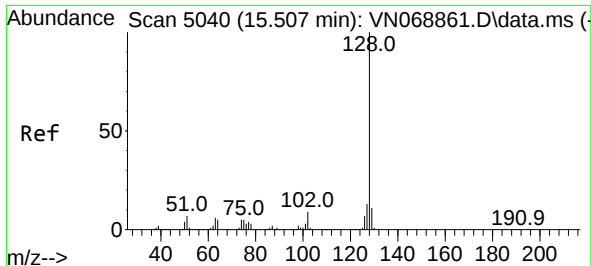
Tgt Ion: 75 Resp: 405
 Ion Ratio Lower Upper
 75 100
 155 80.7 38.8 116.4
 157 119.0 50.2 150.6



#93
 1,2,4-Trichlorobenzene
 Concen: 3.600 ug/l
 RT: 15.265 min Scan# 4950
 Delta R.T. 0.000 min
 Lab File: VN068871.D
 Acq: 12 Oct 2021 19:24

Tgt Ion: 180 Resp: 3901
 Ion Ratio Lower Upper
 180 100
 182 95.5 47.9 143.7
 145 31.4 16.4 49.2

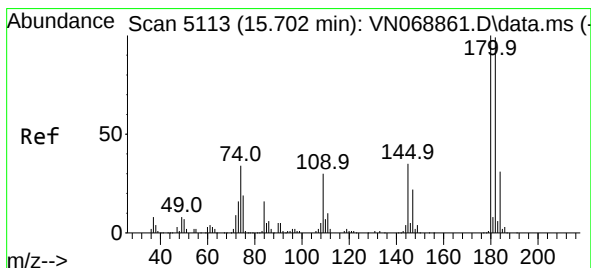
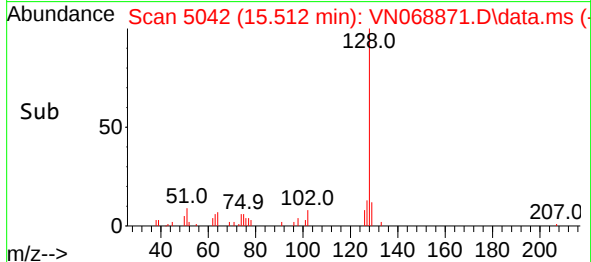
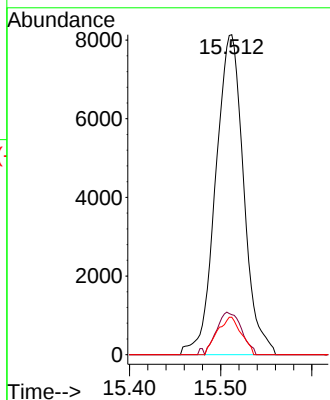
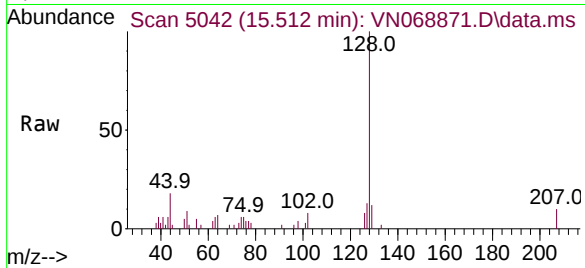




#95
Naphthalene
Concen: 5.378 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.005 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion:128	Resp:	17341
Ion Ratio	Lower	Upper
128	100	
127	11.9	10.5 15.7
129	10.1	8.9 13.3



#96
1,2,3-Trichlorobenzene
Concen: 3.718 ug/l
RT: 15.705 min Scan# 5114
Delta R.T. 0.003 min
Lab File: VN068871.D
Acq: 12 Oct 2021 19:24

Tgt Ion:180	Resp:	4468
Ion Ratio	Lower	Upper
180	100	
182	94.7	48.1 144.3
145	33.1	17.4 52.2

