

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101521\
 Data File : VN068953.D
 Acq On : 15 Oct 2021 16:46
 Operator : JC/MD
 Sample : M4195-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 18 02:16:19 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)

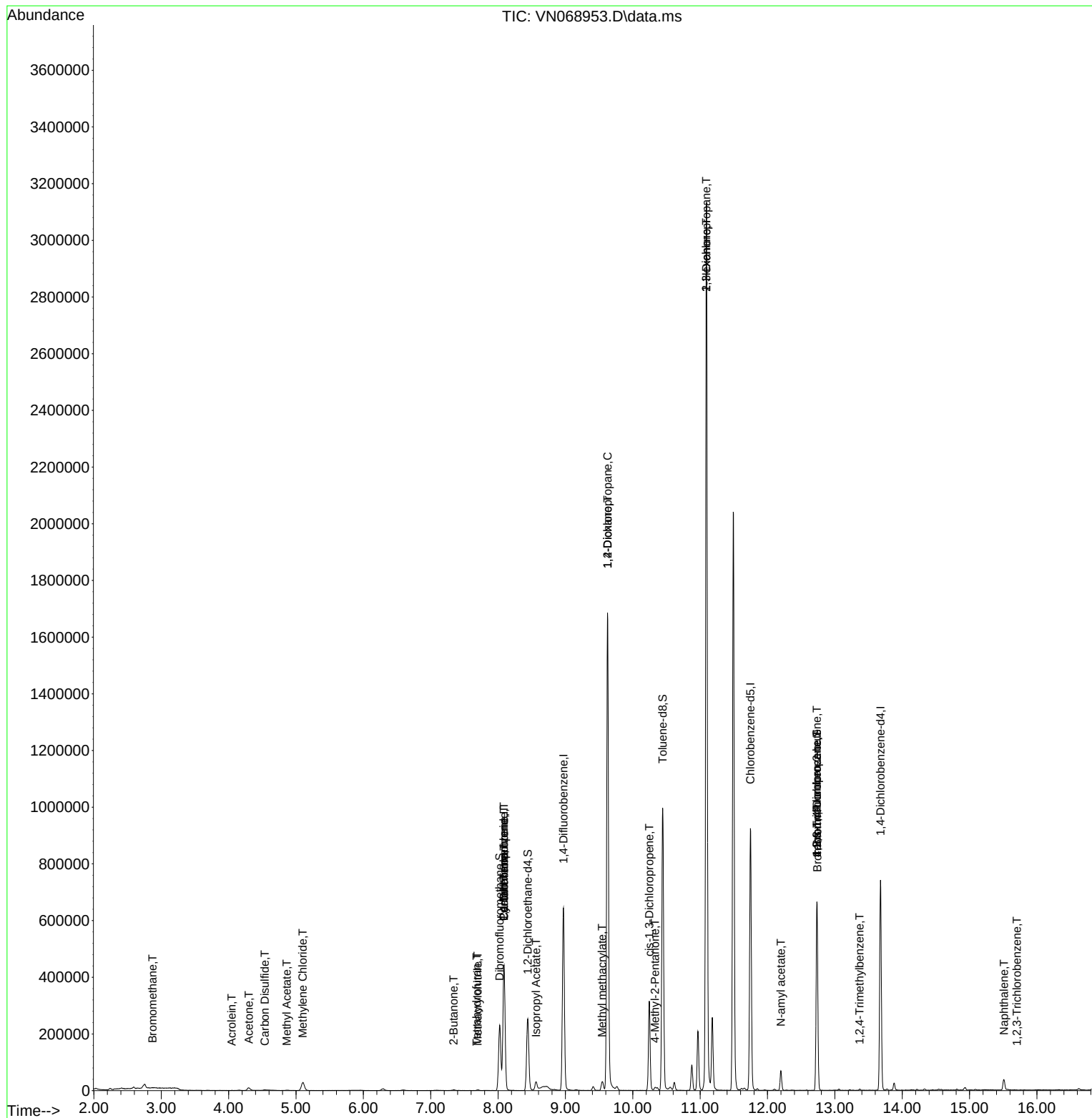
Internal Standards						
1) Pentafluorobenzene	8.088	168	335801	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	577983	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	540688	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	198026	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	214455	48.438	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	96.880%		
35) Dibromofluoromethane	8.024	113	170728	50.770	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	101.540%		
50) Toluene-d8	10.443	98	716588	53.258	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	106.520%		
62) 4-Bromofluorobenzene	12.733	95	247294	48.715	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	97.420%		
Target Compounds					Qvalue	
5) Bromomethane	2.869	94	571	0.249	ug/l	83
13) Acrolein	4.044	56	146	0.408	ug/l #	60
16) Acetone	4.299	43	18869	11.420	ug/l	98
17) Carbon Disulfide	4.537	76	3476	0.395	ug/l #	75
18) Methyl Acetate	4.864	43	2953	0.471	ug/l #	72
20) Methylene Chloride	5.101	84	23726	6.239	ug/l	98
25) 2-Butanone	7.340	43	2262	0.905	ug/l #	88
29) Tetrahydrofuran	7.683	42	479	0.296	ug/l #	54
31) Cyclohexane	8.088	56	7545	1.096	ug/l #	1
36) 1,1-Dichloropropene	8.088	75	27983	5.668	ug/l #	49
38) Carbon Tetrachloride	8.088	117	34386	6.342	ug/l #	15
41) Methacrylonitrile	7.697	41	1152	0.448	ug/l #	29
43) Isopropyl Acetate	8.563	43	39658	4.408	ug/l #	89
45) 1,2-Dichloropropane	9.625	63	2305	0.591	ug/l #	43
48) Methyl methacrylate	9.545	41	8035	1.901	ug/l #	13
49) 1,4-Dioxane	9.625	88	165	37.565	ug/l #	1
51) 4-Methyl-2-Pentanone	10.330	43	7456	1.429	ug/l	99
54) cis-1,3-Dichloropropene	10.245	75	58453	8.988	ug/l #	57
57) 1,3-Dichloropropane	11.092	76	33606	5.345	ug/l #	42
59) 2-Hexanone	11.092	43	481688	128.764	ug/l #	50
71) Bromoform	12.739	173	1963	0.612	ug/l #	1
74) N-amyl acetate	12.197	43	22283	3.568	ug/l #	54
76) 1,2,3-Trichloropropane	12.733	75	125650	29.821	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	125650	71.346	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.366	105	3020	0.228	ug/l	95
95) Naphthalene	15.509	128	37589	7.590	ug/l	99
96) 1,2,3-Trichlorobenzene	15.702	180	52	2.529	ug/l #	12

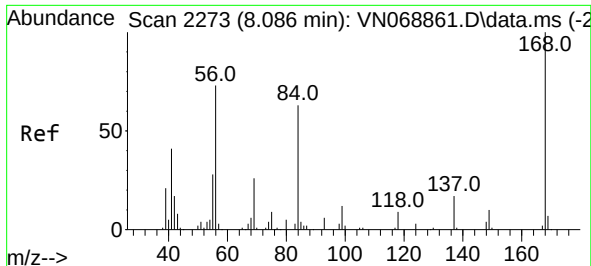
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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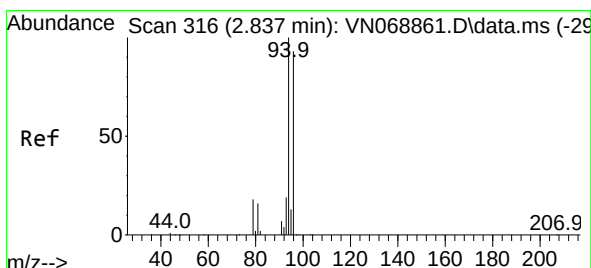
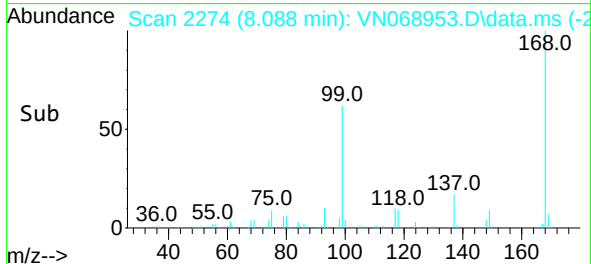
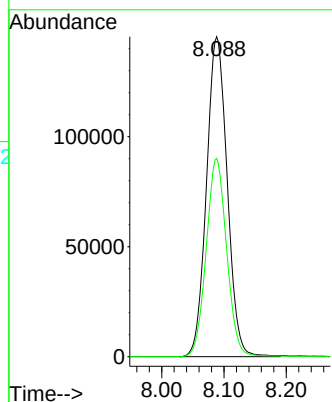
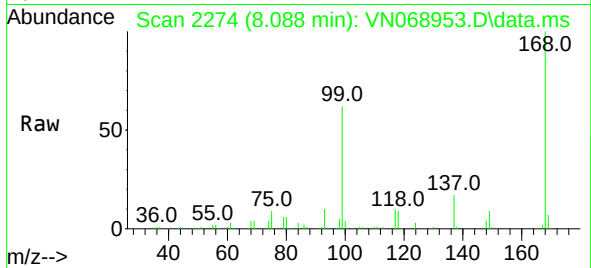




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

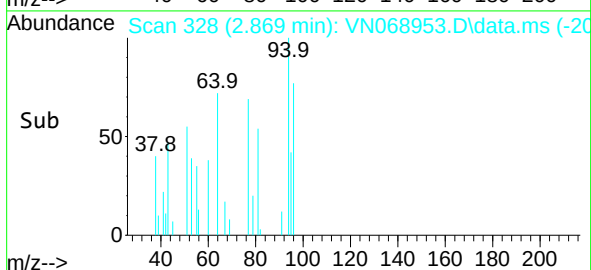
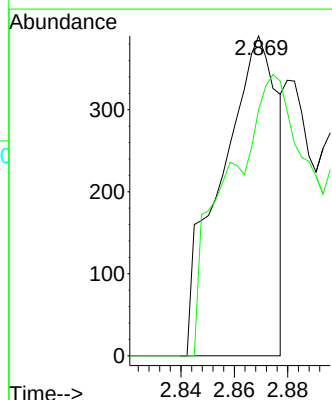
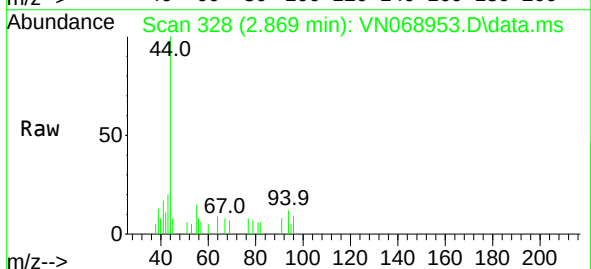
Instrument :
MSVOA_N
ClientSampled :

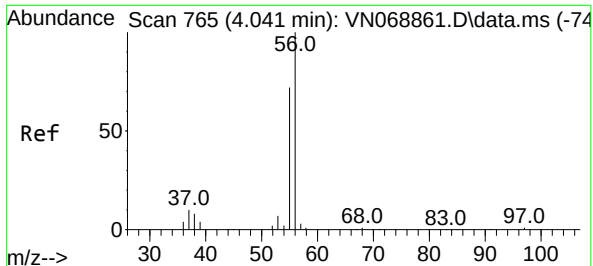
Tgt Ion:168 Resp: 335801
Ion Ratio Lower Upper
168 100
99 62.0 48.9 73.3



#5
Bromomethane
Concen: 0.249 ug/l
RT: 2.869 min Scan# 328
Delta R.T. 0.032 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

Tgt Ion: 94 Resp: 571
Ion Ratio Lower Upper
94 100
96 76.9 74.2 111.4

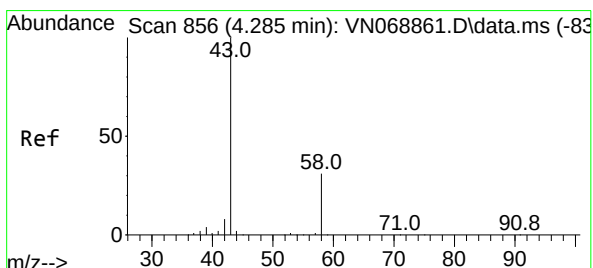
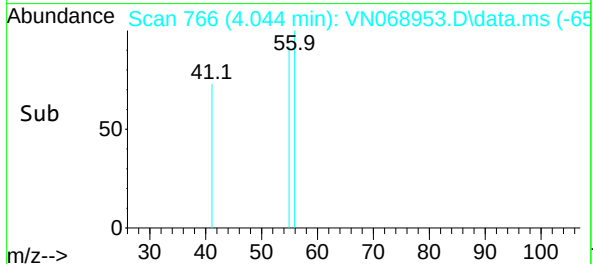
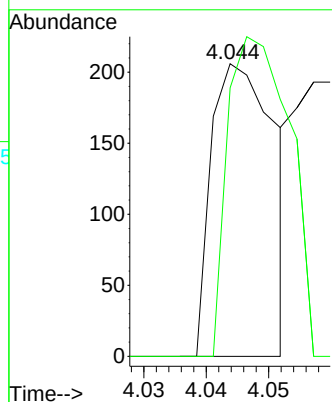
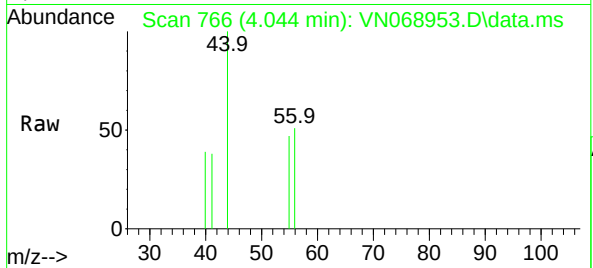




#13
Acrolein
Concen: 0.408 ug/l
RT: 4.044 min Scan# 766
Delta R.T. 0.003 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

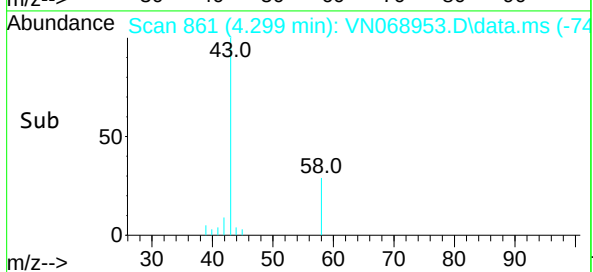
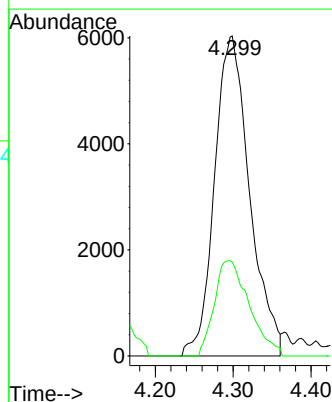
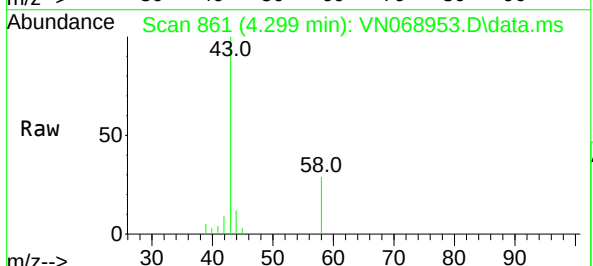
Instrument :
MSVOA_N
ClientSampled :

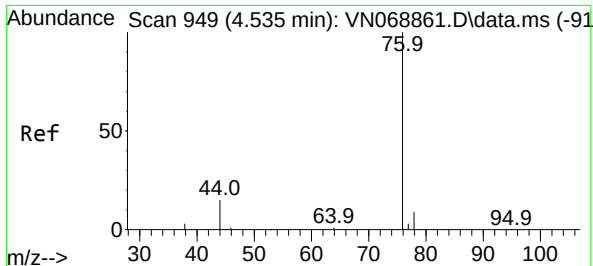
Tgt Ion: 56 Resp: 146
Ion Ratio Lower Upper
56 100
55 106.2 58.1 87.1#



#16
Acetone
Concen: 11.420 ug/l
RT: 4.299 min Scan# 861
Delta R.T. 0.013 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

Tgt Ion: 43 Resp: 18869
Ion Ratio Lower Upper
43 100
58 29.4 24.5 36.7

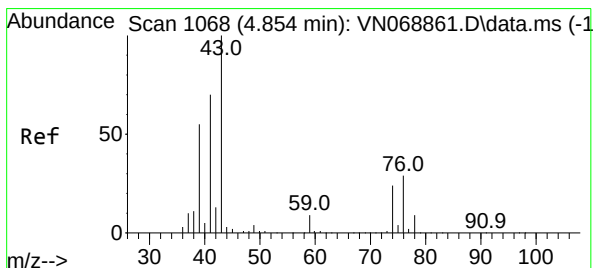
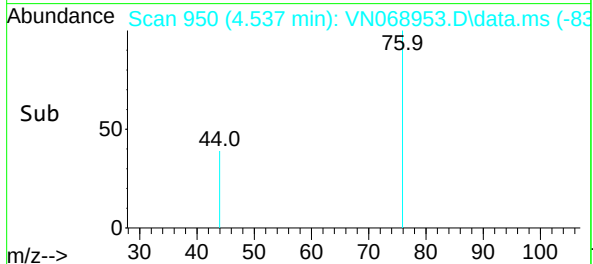
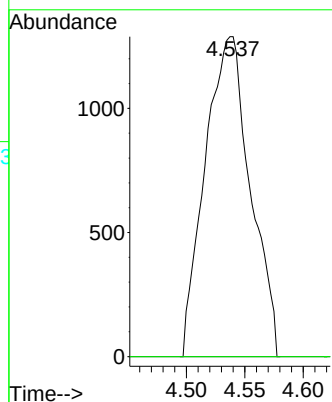
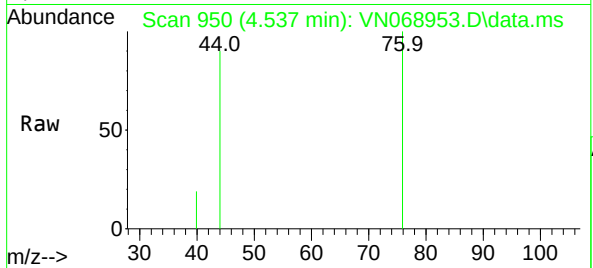




#17
Carbon Disulfide
Concen: 0.395 ug/l
RT: 4.537 min Scan# 950
Delta R.T. 0.003 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

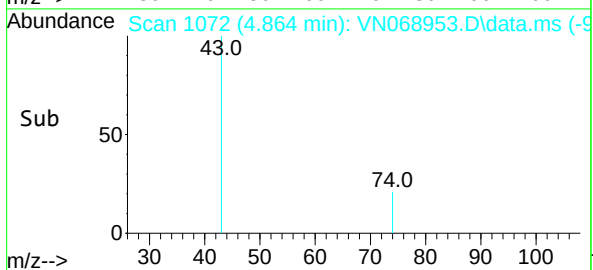
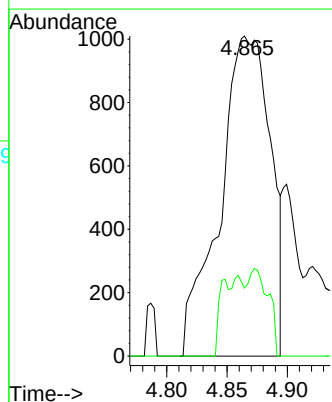
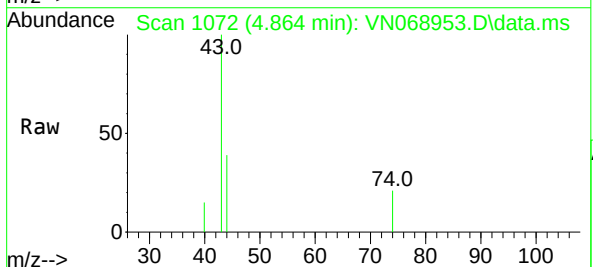
Instrument :
MSVOA_N
ClientSampled :

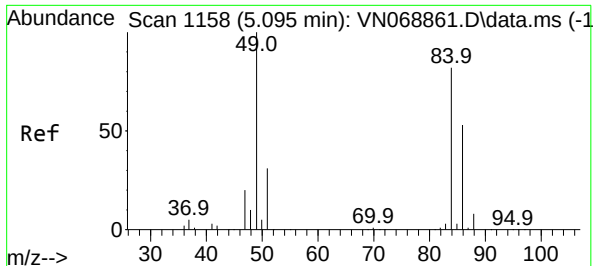
Tgt Ion: 76 Resp: 3476
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#18
Methyl Acetate
Concen: 0.471 ug/l
RT: 4.864 min Scan# 1072
Delta R.T. 0.011 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

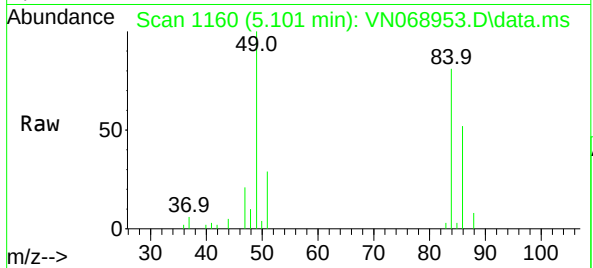
Tgt Ion: 43 Resp: 2953
Ion Ratio Lower Upper
43 100
74 9.8 18.9 28.3#



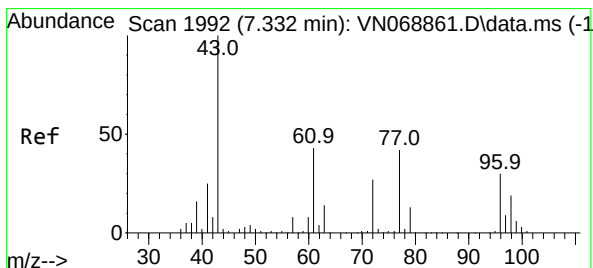
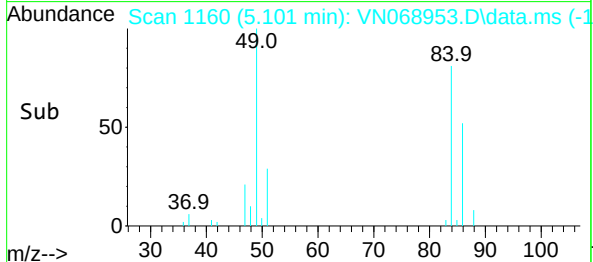
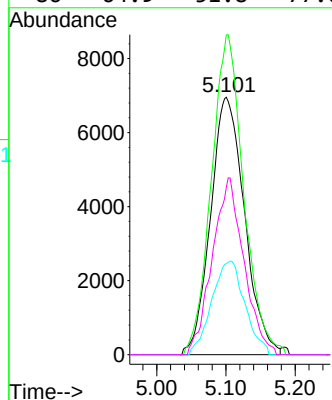


#20
Methylene Chloride
Concen: 6.239 ug/l
RT: 5.101 min Scan# 1160
Delta R.T. 0.005 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

Instrument :
MSVOA_N
ClientSampleId :

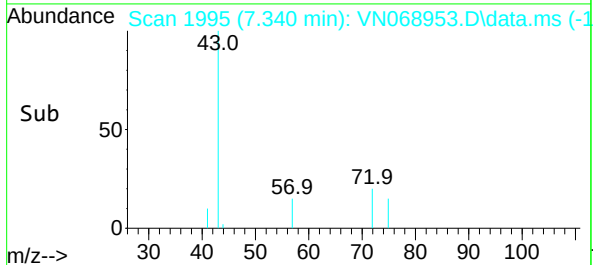
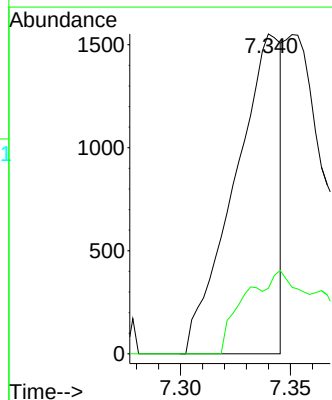
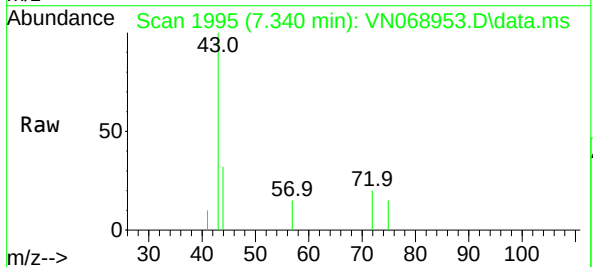


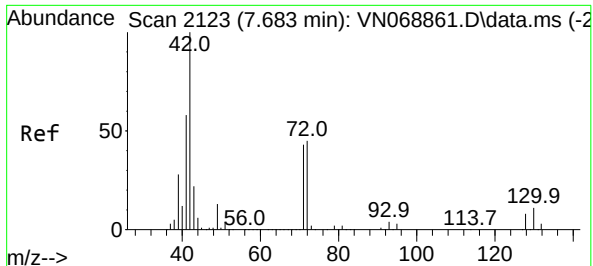
Tgt Ion:	84	Resp:	23726
Ion	Ratio	Lower	Upper
84	100		
49	124.2	97.6	146.4
51	35.4	30.3	45.5
86	64.9	51.8	77.6



#25
2-Butanone
Concen: 0.905 ug/l
RT: 7.340 min Scan# 1995
Delta R.T. 0.008 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

Tgt Ion:	43	Resp:	2262
Ion	Ratio	Lower	Upper
43	100		
72	20.5	21.2	31.8#





#29

Tetrahydrofuran

Concen: 0.296 ug/l

RT: 7.683 min Scan# 2123

Delta R.T. -0.000 min

Lab File: VN068953.D

Acq: 15 Oct 2021 16:46

Tgt Ion: 42 Resp: 479

Ion Ratio Lower Upper

42 100

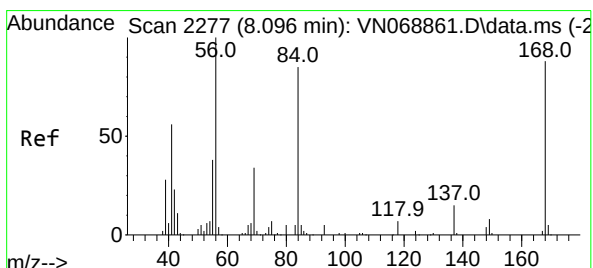
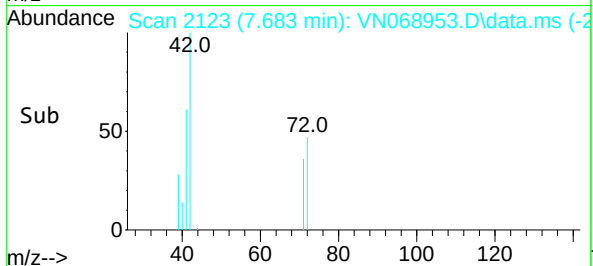
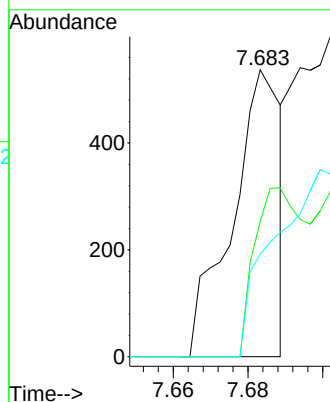
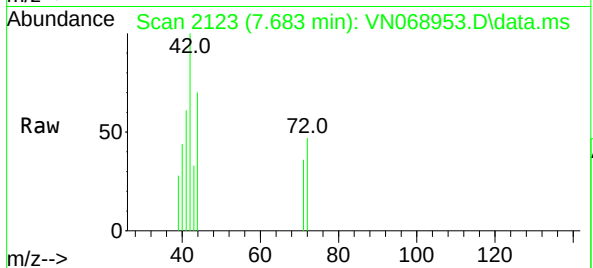
72 62.0 35.4 53.2#

71 0.0 33.8 50.6#

Instrument :

MSVOA_N

ClientSampleId :



#31

Cyclohexane

Concen: 1.096 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. -0.008 min

Lab File: VN068953.D

Acq: 15 Oct 2021 16:46

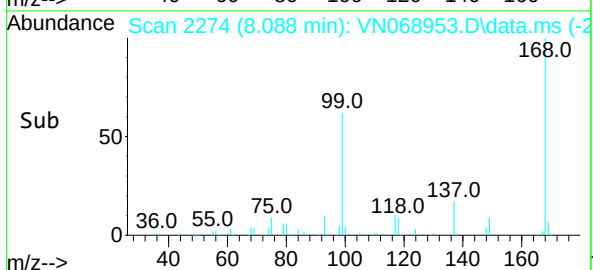
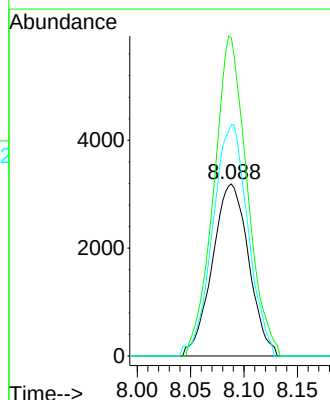
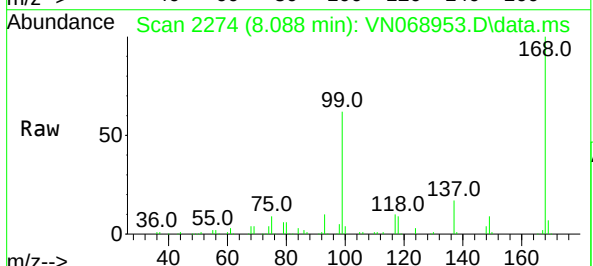
Tgt Ion: 56 Resp: 7545

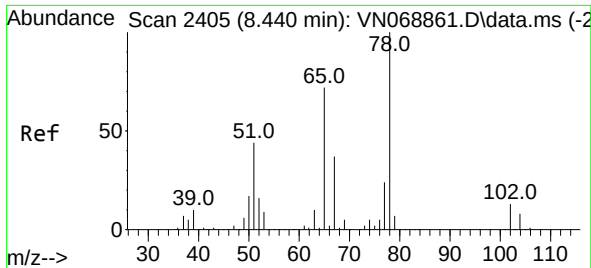
Ion Ratio Lower Upper

56 100

69 184.8 26.9 40.3#

84 134.7 67.6 101.4#

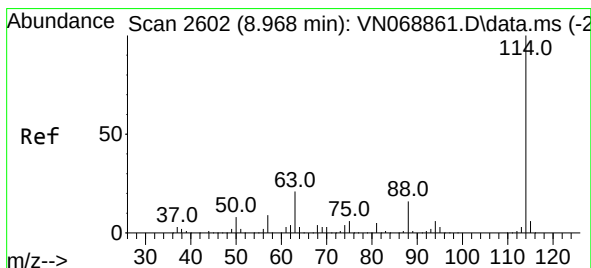
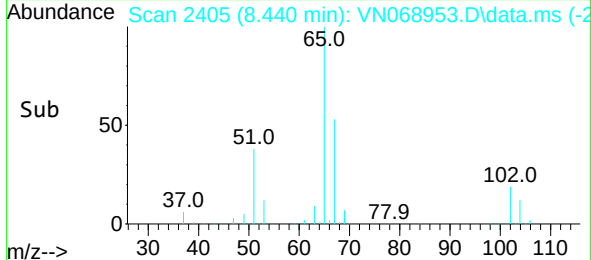
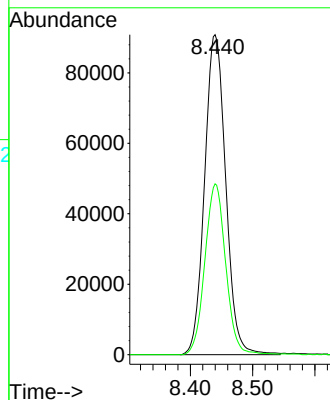
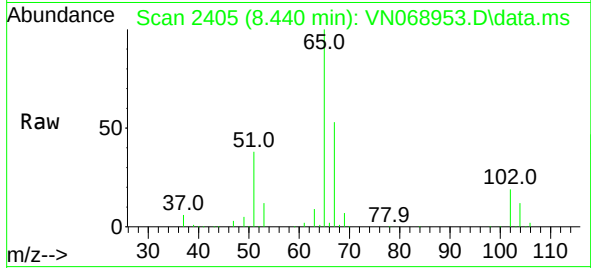




#33
 1,2-Dichloroethane-d4
 Concen: 48.438 ug/l
 RT: 8.440 min Scan# 2405
 Delta R.T. -0.000 min
 Lab File: VN068953.D
 Acq: 15 Oct 2021 16:46

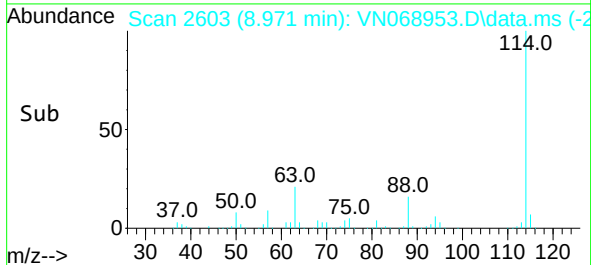
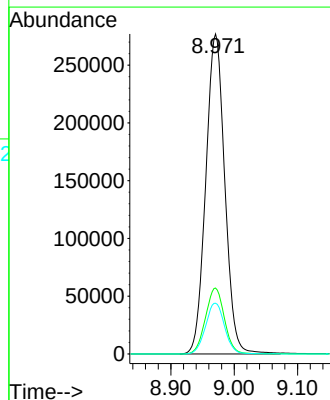
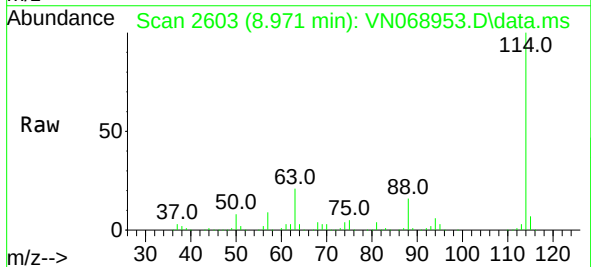
Instrument :
 MSVOA_N
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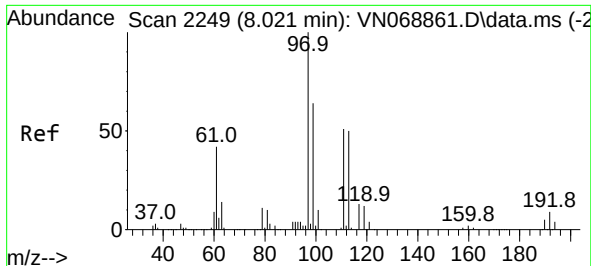
Tgt Ion: 65 Resp: 214455
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.971 min Scan# 2603
 Delta R.T. 0.003 min
 Lab File: VN068953.D
 Acq: 15 Oct 2021 16:46

Tgt Ion: 114 Resp: 577983
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 42.6
 88 15.9 0.0 32.0

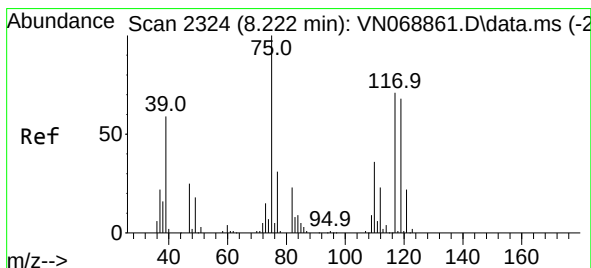
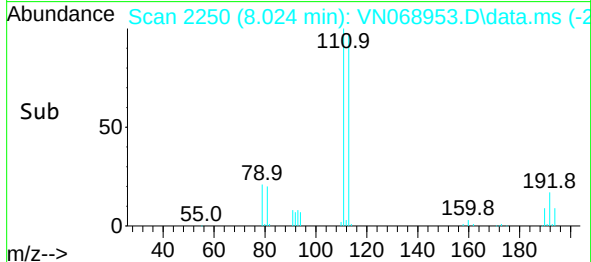
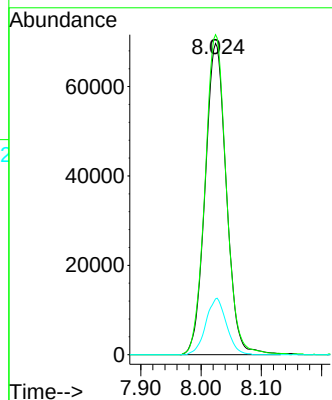
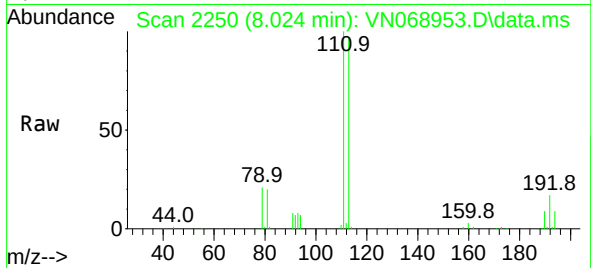




#35
Dibromofluoromethane
Concen: 50.770 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

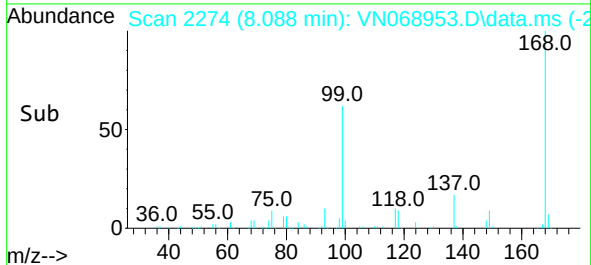
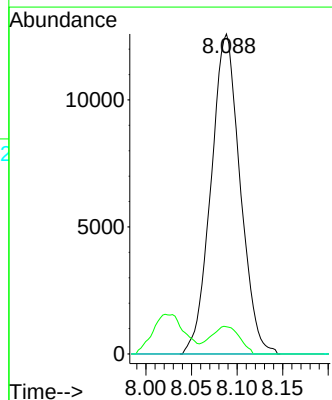
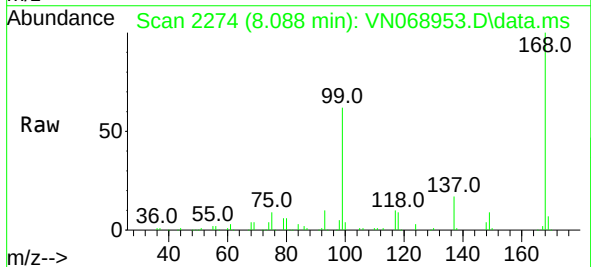
Instrument :
MSVOA_N
ClientSampled :

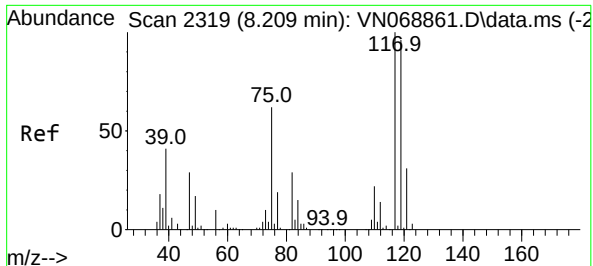
Tgt Ion:113 Resp: 170728
Ion Ratio Lower Upper
113 100
111 102.8 83.2 124.8
192 17.6 15.0 22.4



#36
1,1-Dichloropropene
Concen: 5.668 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.134 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

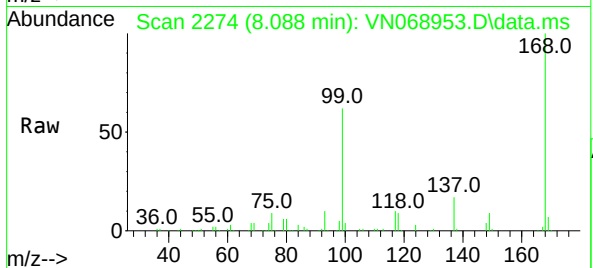
Tgt Ion: 75 Resp: 27983
Ion Ratio Lower Upper
75 100
110 8.7 17.9 53.8#
77 0.0 24.7 37.1#



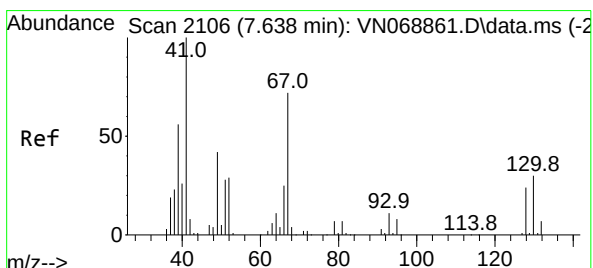
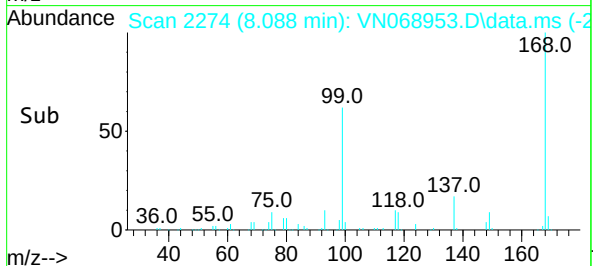
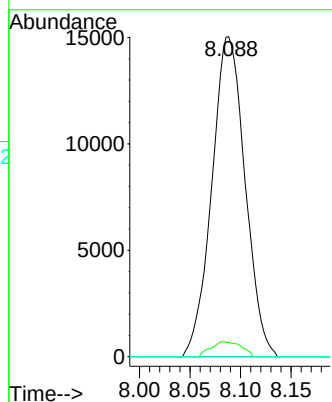


#38
Carbon Tetrachloride
Concen: 6.342 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.121 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

Instrument :
MSVOA_N
ClientSampled :

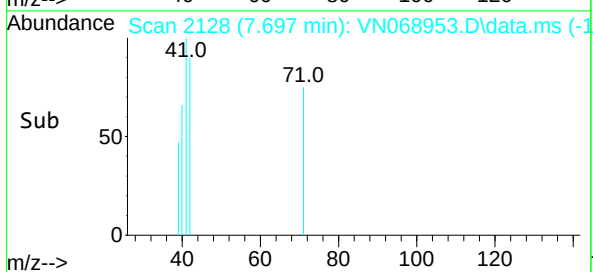
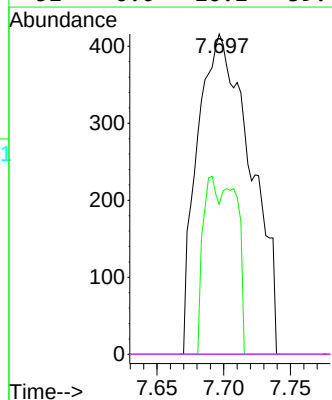
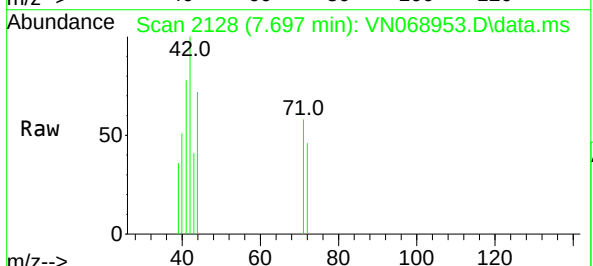


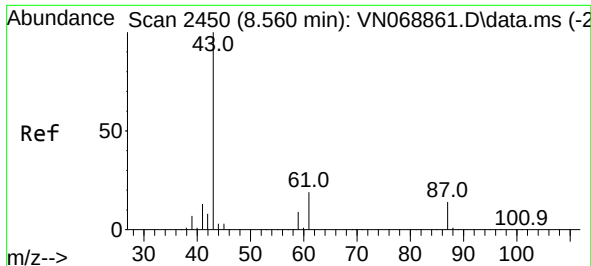
Tgt Ion:117 Resp: 34386
Ion Ratio Lower Upper
117 100
119 4.4 76.9 115.3#
121 0.0 24.6 37.0#



#41
Methacrylonitrile
Concen: 0.448 ug/l
RT: 7.697 min Scan# 2128
Delta R.T. 0.059 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

Tgt Ion: 41 Resp: 1152
Ion Ratio Lower Upper
41 100
39 16.8 44.9 67.3#
67 0.0 62.6 93.8#
52 0.0 26.2 39.4#

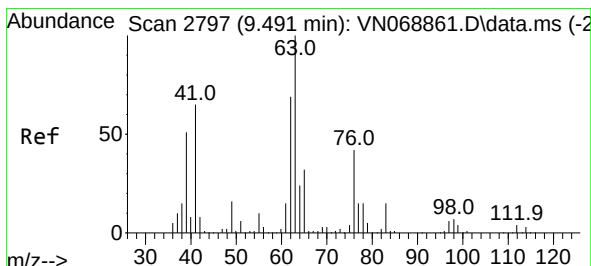
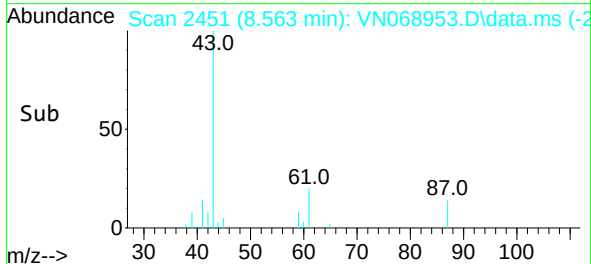
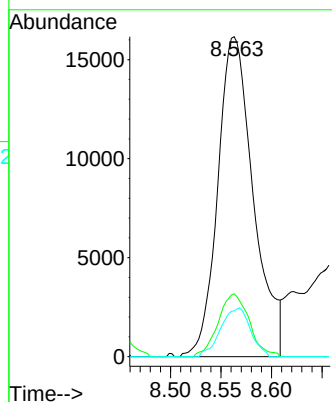
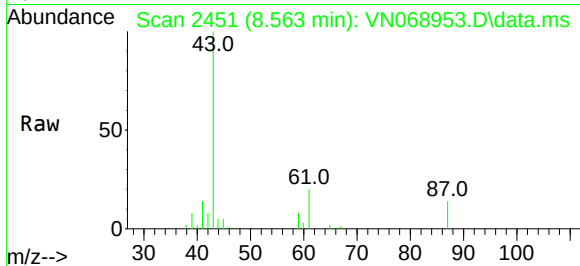




#43
Isopropyl Acetate
Concen: 4.408 ug/l
RT: 8.563 min Scan# 2451
Delta R.T. 0.003 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

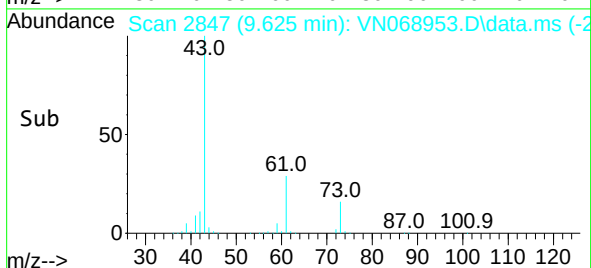
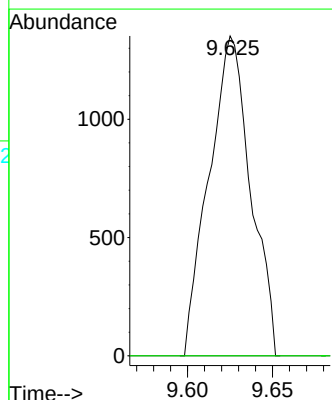
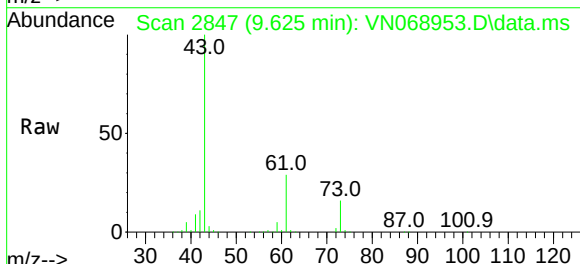
Instrument :
MSVOA_N
ClientSampled :

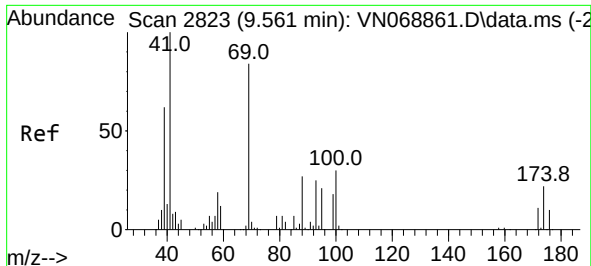
Tgt Ion	Ratio	Lower	Upper
43	100		
61	17.1	20.4	30.6#
87	12.7	10.7	16.1



#45
1,2-Dichloropropane
Concen: 0.591 ug/l
RT: 9.625 min Scan# 2847
Delta R.T. 0.134 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.6	38.4#

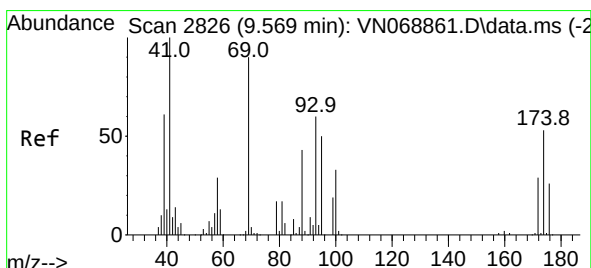
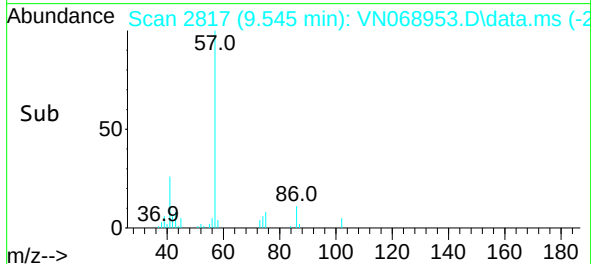
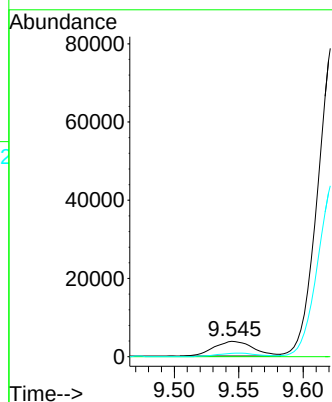
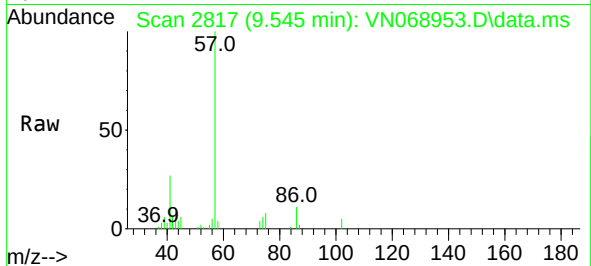




#48
Methyl methacrylate
Concen: 1.901 ug/l
RT: 9.545 min Scan# 2817
Delta R.T. -0.016 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

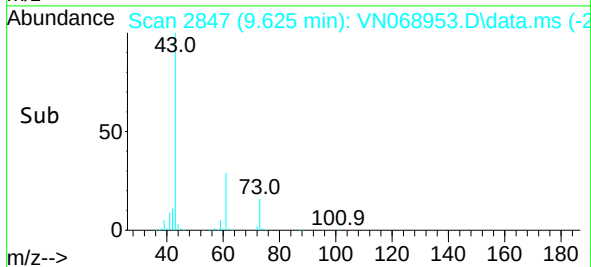
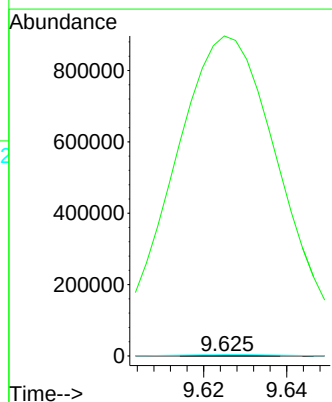
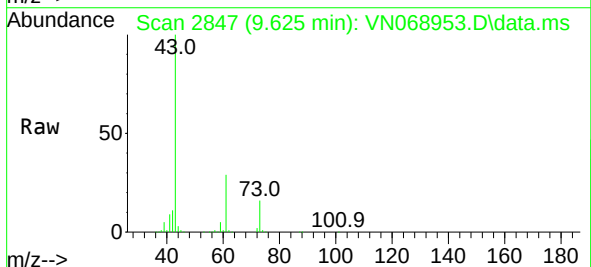
Instrument :
MSVOA_N
ClientSampled :

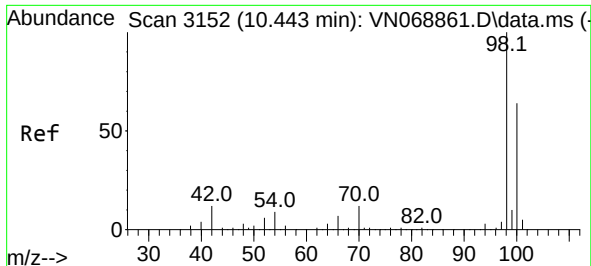
Tgt Ion: 41 Resp: 8035
Ion Ratio Lower Upper
41 100
69 0.0 66.4 99.6#
39 0.0 50.2 75.2#



#49
1,4-Dioxane
Concen: 37.565 ug/l
RT: 9.625 min Scan# 2847
Delta R.T. 0.056 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

Tgt Ion: 88 Resp: 165
Ion Ratio Lower Upper
88 100
43 1039800.0 24.9 37.3#
58 4215.2 56.9 85.3#

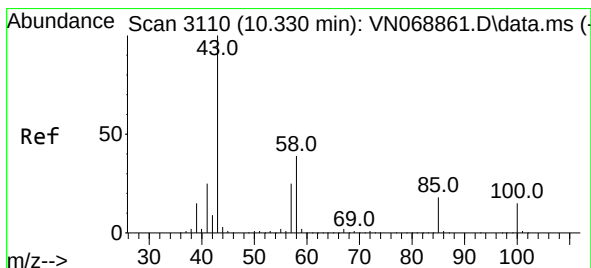
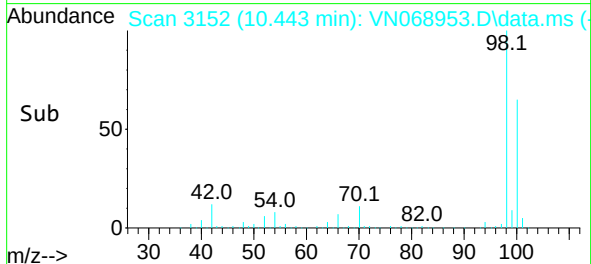
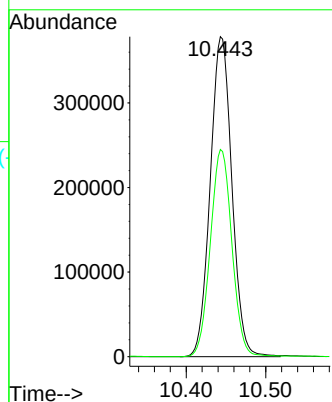
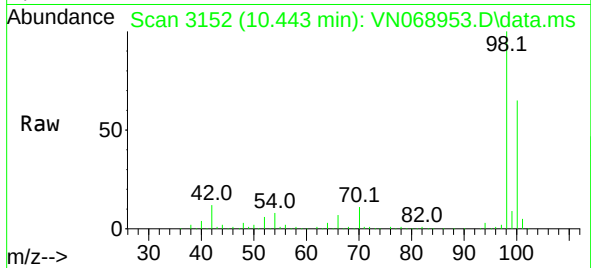




#50
Toluene-d8
Concen: 53.258 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. -0.000 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

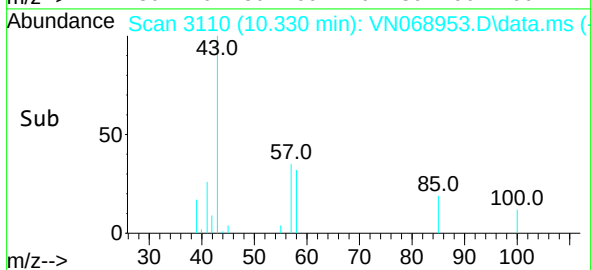
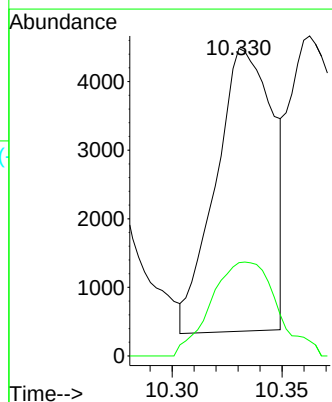
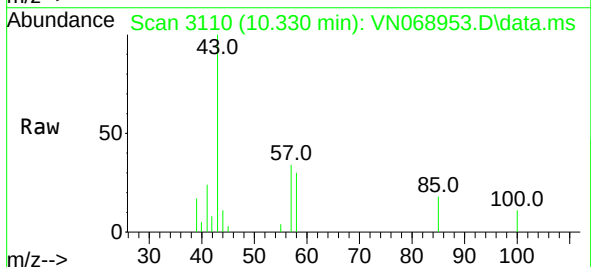
Instrument :
MSVOA_N
ClientSampled :

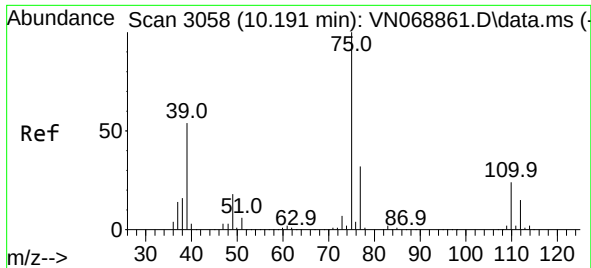
Tgt Ion: 98 Resp: 716588
Ion Ratio Lower Upper
98 100
100 64.7 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 1.429 ug/l
RT: 10.330 min Scan# 3110
Delta R.T. -0.000 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

Tgt Ion: 43 Resp: 7456
Ion Ratio Lower Upper
43 100
58 38.2 31.0 46.4

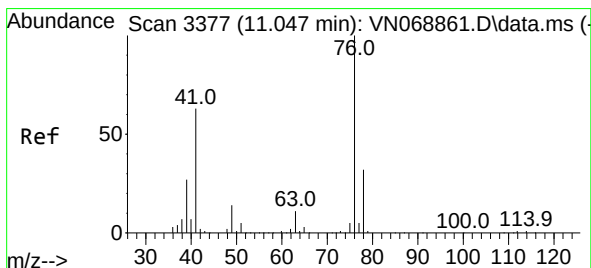
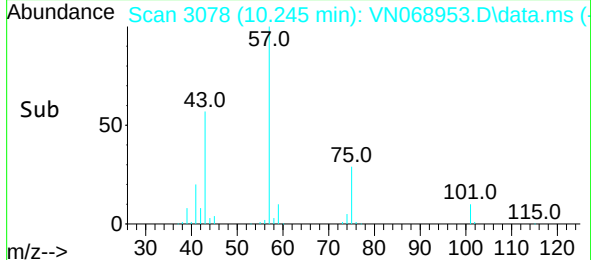
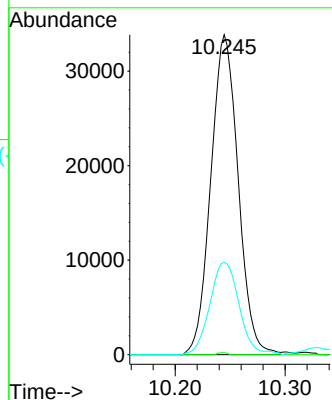
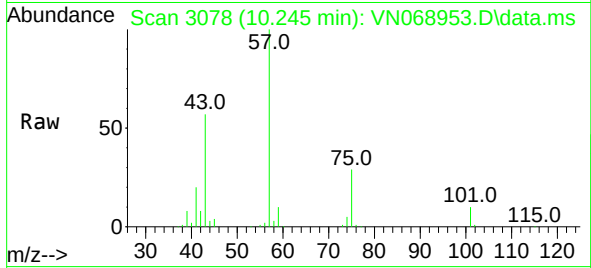




#54
 cis-1,3-Dichloropropene
 Concen: 8.988 ug/l
 RT: 10.245 min Scan# 3078
 Delta R.T. 0.054 min
 Lab File: VN068953.D
 Acq: 15 Oct 2021 16:46

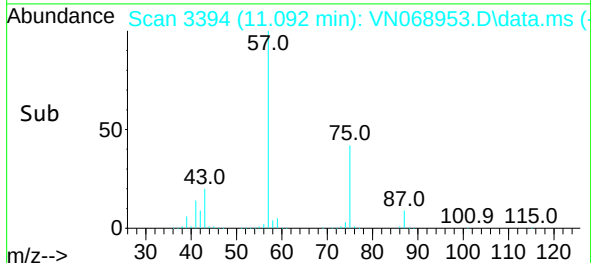
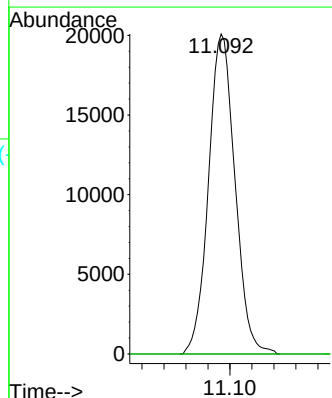
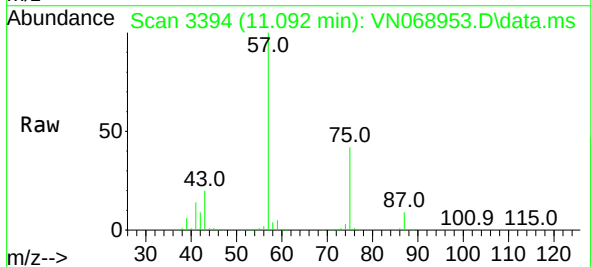
Instrument :
 MSVOA_N
 ClientSampleId :

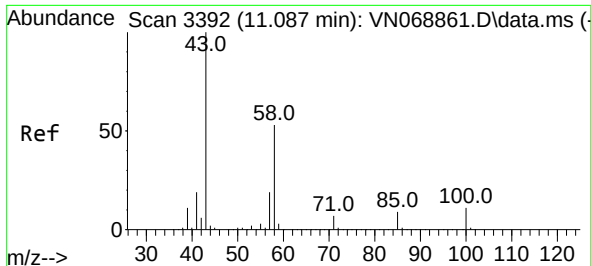
Tgt Ion: 75 Resp: 58453
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.6 38.4#
 39 28.9 42.9 64.3#



#57
 1,3-Dichloropropane
 Concen: 5.345 ug/l
 RT: 11.092 min Scan# 3394
 Delta R.T. 0.046 min
 Lab File: VN068953.D
 Acq: 15 Oct 2021 16:46

Tgt Ion: 76 Resp: 33606
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#

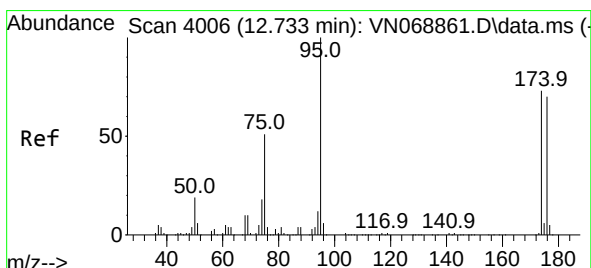
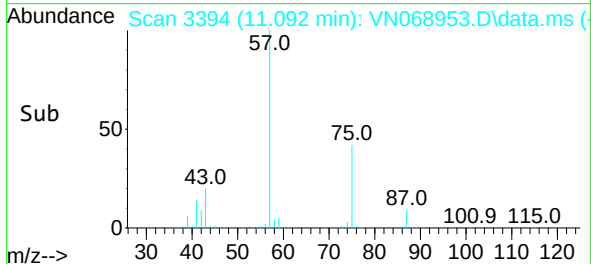
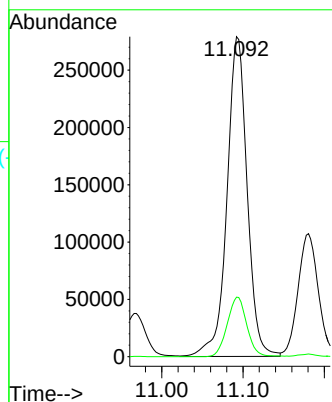
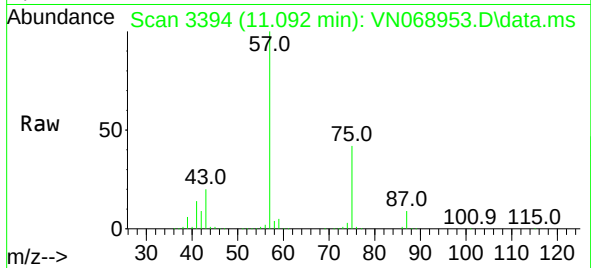




#59
2-Hexanone
Concen: 128.764 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

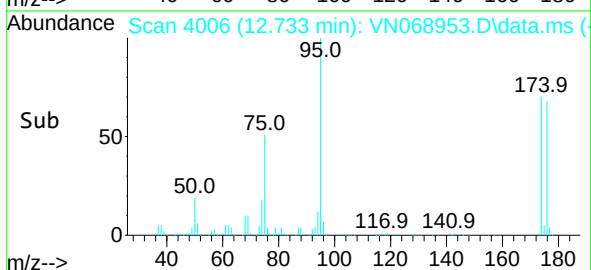
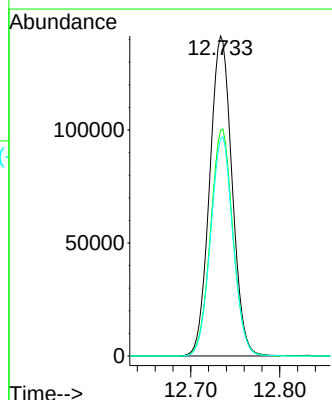
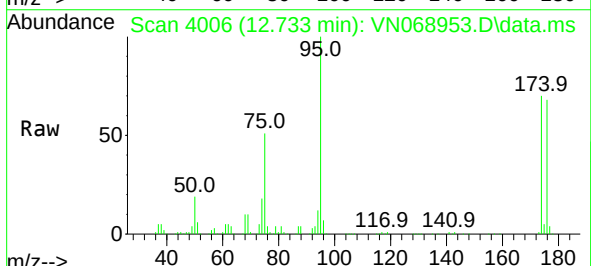
Instrument :
MSVOA_N
ClientSampled :

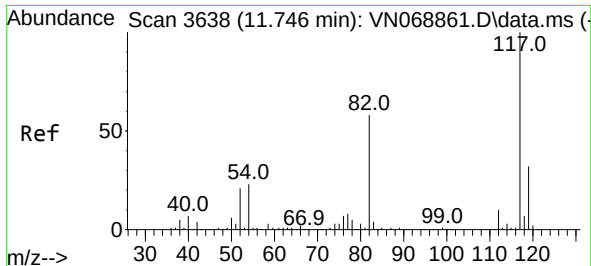
Tgt Ion: 43 Resp: 481688
Ion Ratio Lower Upper
43 100
58 18.1 26.9 80.7#



#62
4-Bromofluorobenzene
Concen: 48.715 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

Tgt Ion: 95 Resp: 247294
Ion Ratio Lower Upper
95 100
174 71.4 0.0 144.8
176 68.5 0.0 140.0

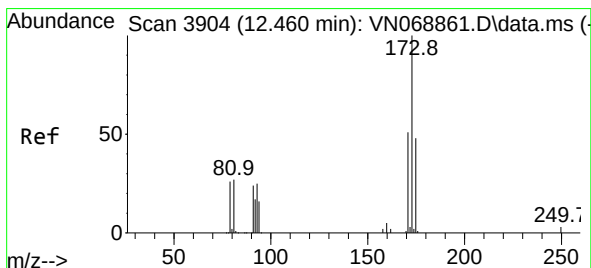
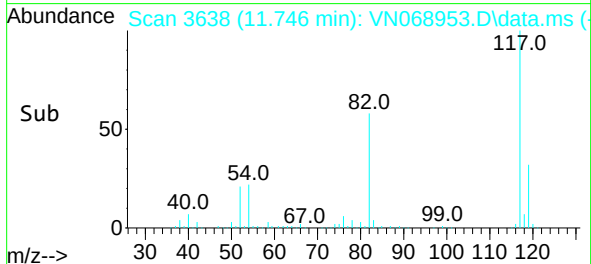
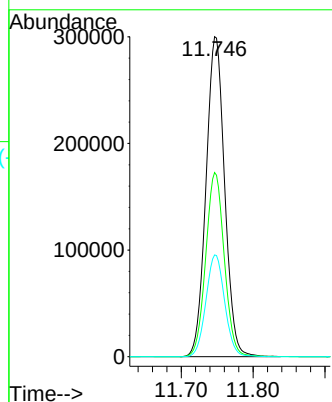
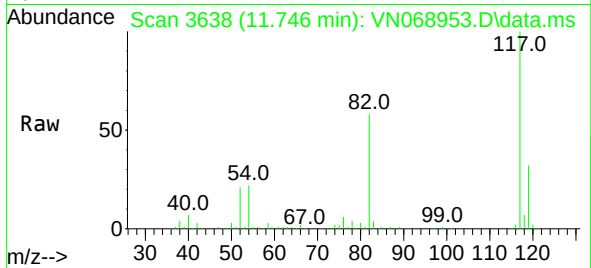




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

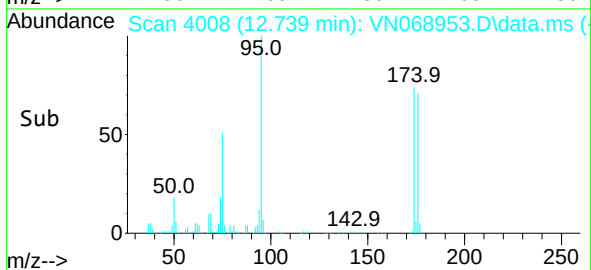
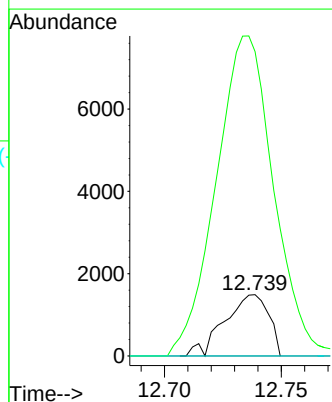
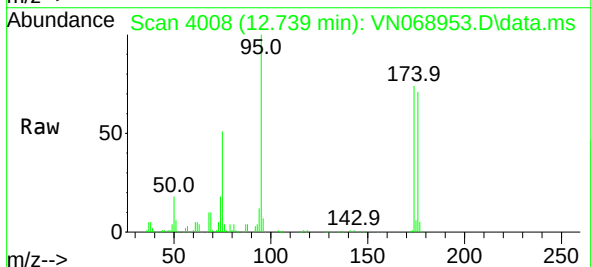
Instrument :
MSVOA_N
ClientSampled :

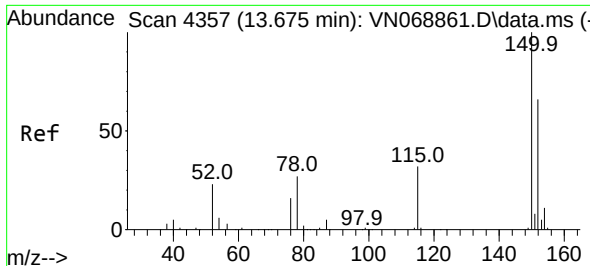
Tgt Ion:117 Resp: 540688
Ion Ratio Lower Upper
117 100
82 57.5 46.4 69.6
119 31.8 26.0 39.0



#71
Bromoform
Concen: 0.612 ug/l
RT: 12.739 min Scan# 4008
Delta R.T. 0.279 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

Tgt Ion:173 Resp: 1963
Ion Ratio Lower Upper
173 100
175 623.2 23.8 71.5#
254 0.0 0.0 0.0

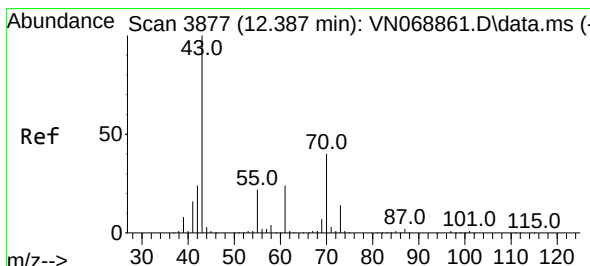
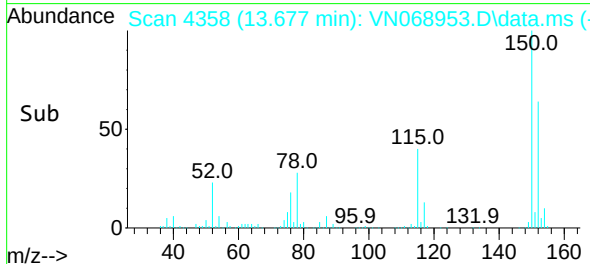
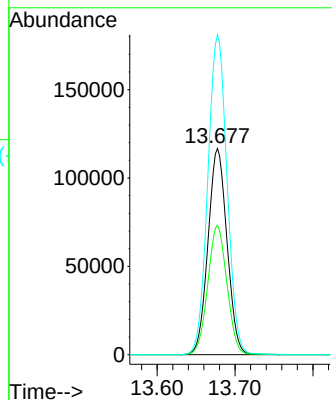
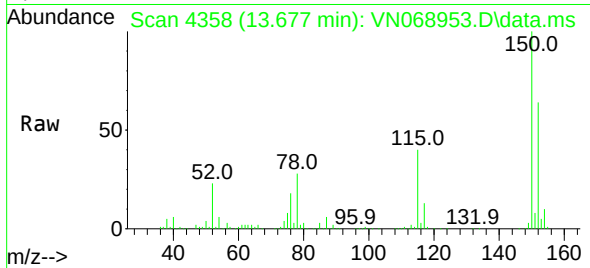




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.677 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

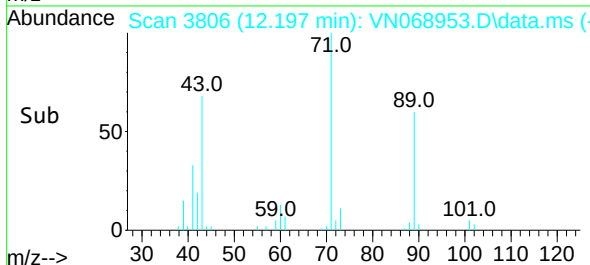
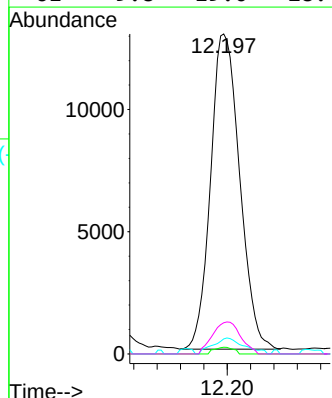
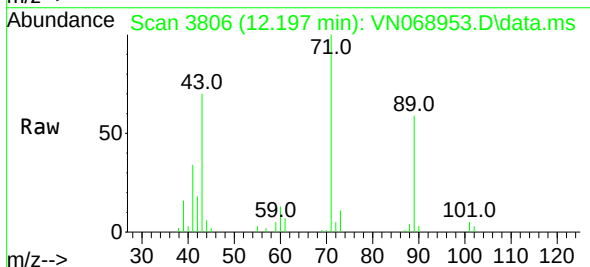
Instrument :
MSVOA_N
ClientSampled :

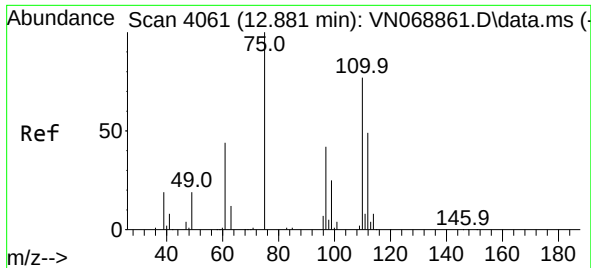
Tgt Ion:152 Resp: 198026
Ion Ratio Lower Upper
152 100
115 63.2 31.4 94.3
150 156.7 0.0 351.0



#74
N-ethyl acetate
Concen: 3.568 ug/l
RT: 12.197 min Scan# 3806
Delta R.T. -0.190 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

Tgt Ion: 43 Resp: 22283
Ion Ratio Lower Upper
43 100
70 1.4 32.2 48.2#
55 5.4 18.0 27.0#
61 9.8 19.0 28.4#

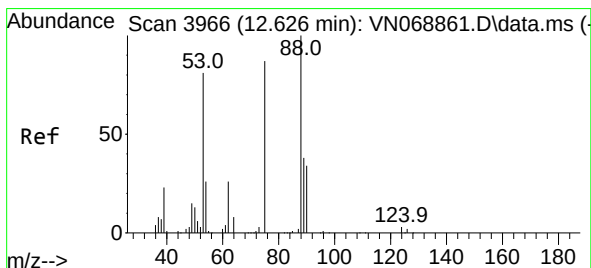
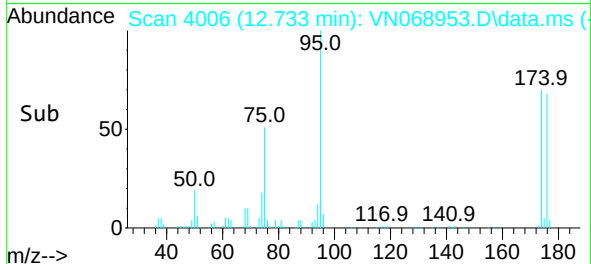
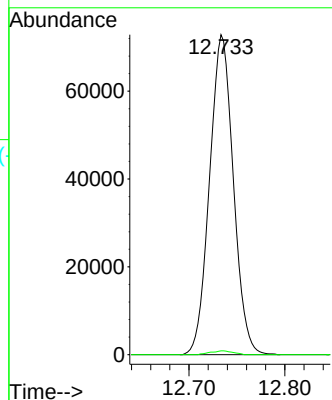
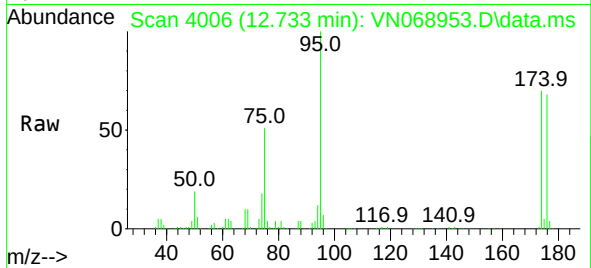




#76
1,2,3-Trichloropropane
Concen: 29.821 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.148 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

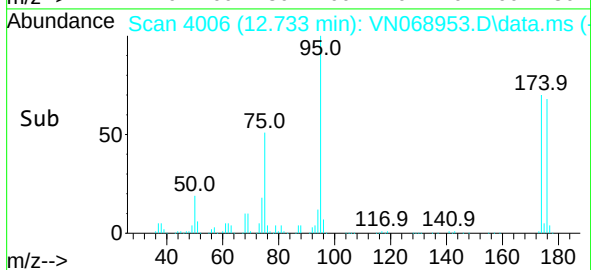
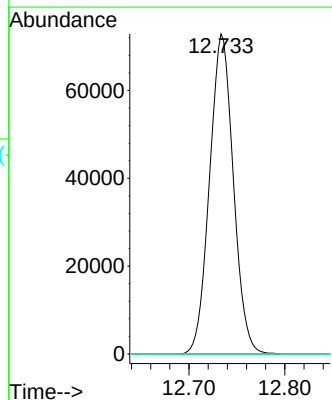
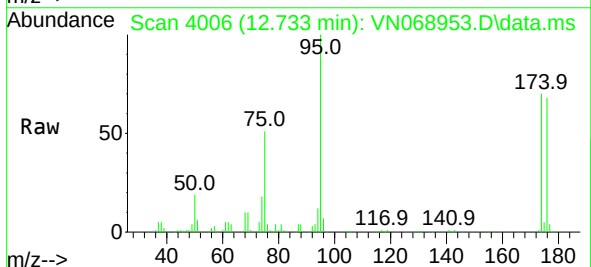
Instrument :
MSVOA_N
ClientSampled :

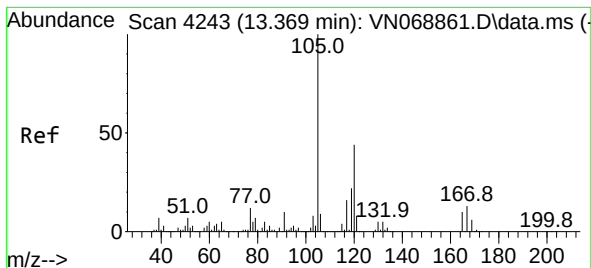
Tgt Ion: 75 Resp: 125650
Ion Ratio Lower Upper
75 100
77 1.1 96.2 288.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 71.346 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN068953.D
Acq: 15 Oct 2021 16:46

Tgt Ion: 75 Resp: 125650
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#





#84

1,2,4-Trimethylbenzene

Concen: 0.228 ug/l

RT: 13.366 min Scan# 4242

Delta R.T. -0.003 min

Lab File: VN068953.D

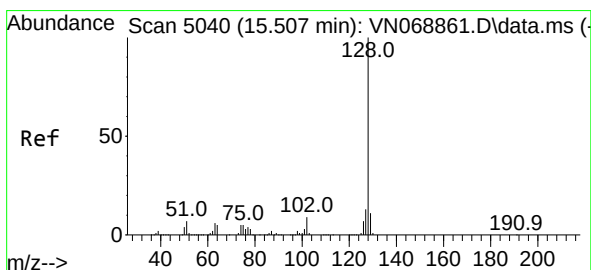
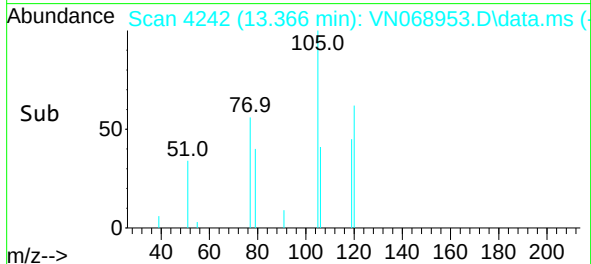
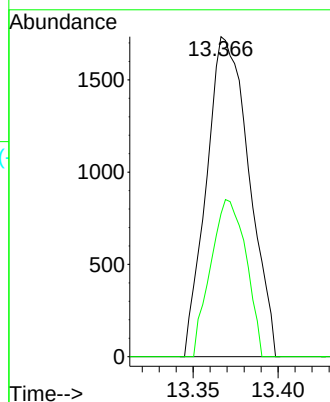
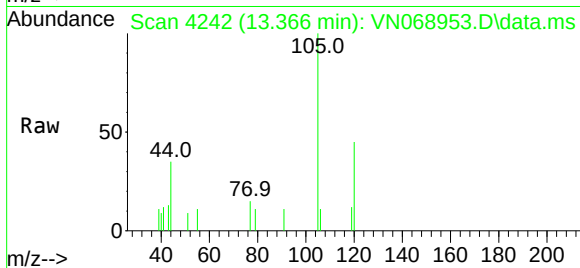
Acq: 15 Oct 2021 16:46

Tgt Ion:105 Resp: 3020

Ion Ratio Lower Upper

105 100

120 40.7 21.9 65.5



#95

Naphthalene

Concen: 7.590 ug/l

RT: 15.509 min Scan# 5041

Delta R.T. 0.002 min

Lab File: VN068953.D

Acq: 15 Oct 2021 16:46

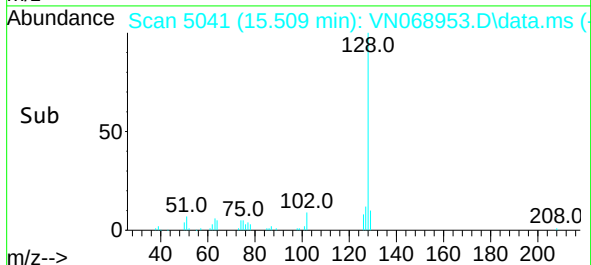
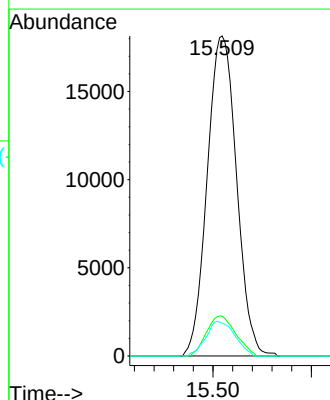
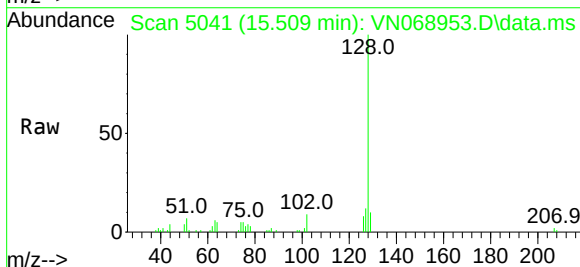
Tgt Ion:128 Resp: 37589

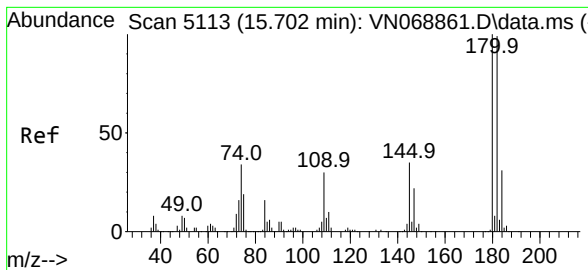
Ion Ratio Lower Upper

128 100

127 12.5 10.5 15.7

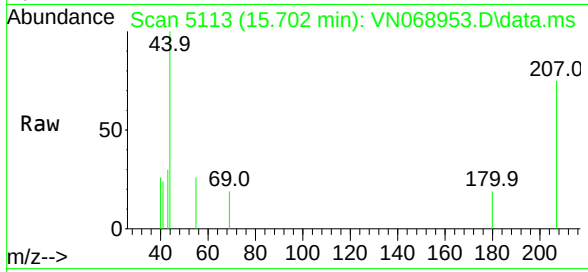
129 10.7 8.9 13.3





#96
 1,2,3-Trichlorobenzene
 Concen: 2.529 ug/l
 RT: 15.702 min Scan# 5113
 Delta R.T. 0.000 min
 Lab File: VN068953.D
 Acq: 15 Oct 2021 16:46

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.1	144.3#
145	0.0	17.4	52.2#

