

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050923\
 Data File : VN077637.D
 Acq On : 09 May 2023 17:19
 Operator : JC\MD
 Sample : PB152652ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152652ZHE#03

Quant Time: May 10 04:48:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N050923W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 09 13:52:31 2023
 Response via : Initial Calibration

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

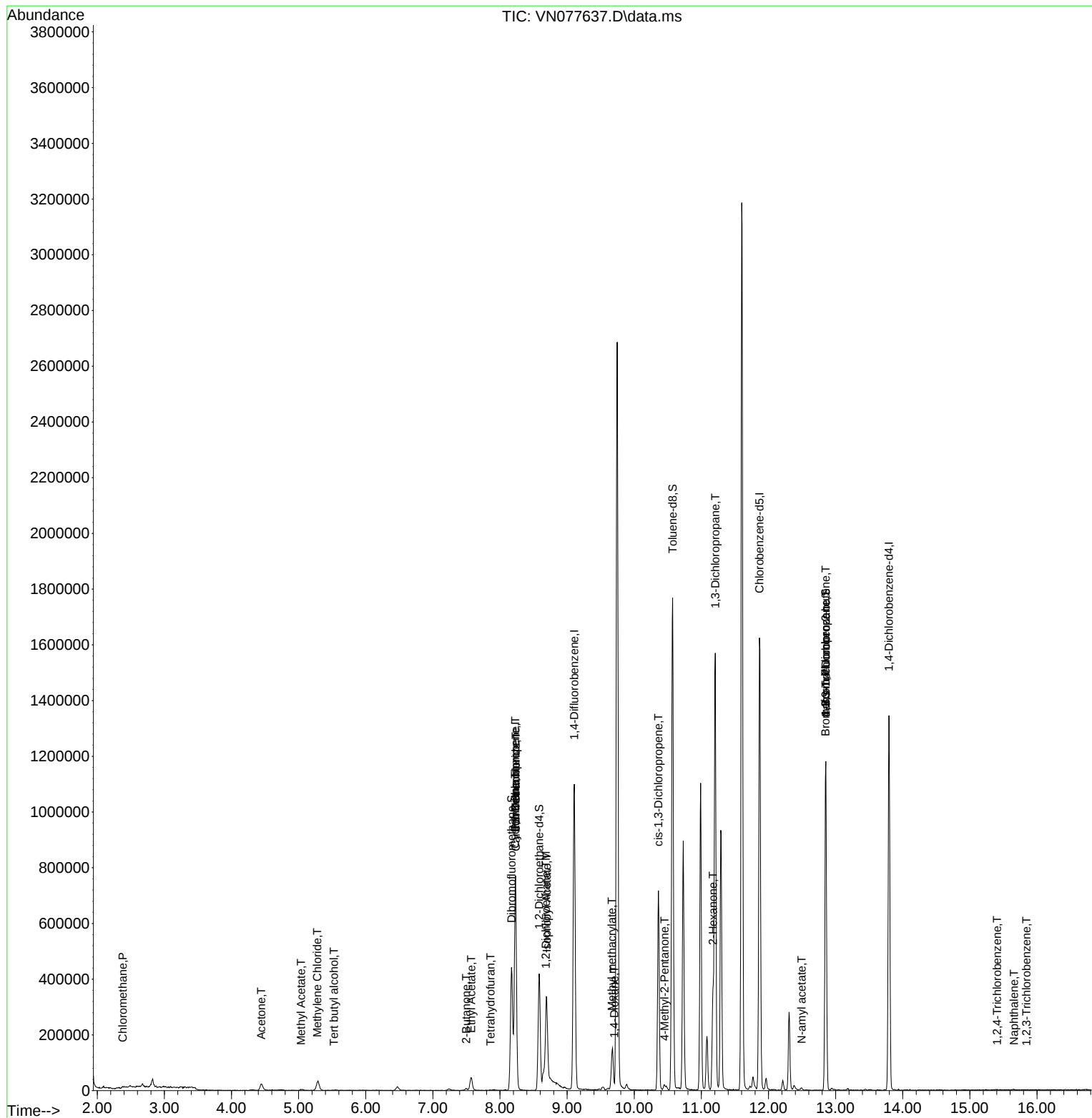
Internal Standards						
1) Pentafluorobenzene	8.230	168	555965	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1046010	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	1007232	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	372791	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	342105	48.519	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.040%
35) Dibromofluoromethane	8.172	113	316734	48.551	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.100%
50) Toluene-d8	10.571	98	1289460	52.207	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.420%
62) 4-Bromofluorobenzene	12.854	95	431197	51.617	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	103.240%
Target Compounds						
					Qvalue	
3) Chloromethane	2.378	50	1851	0.330	ug/l #	74
11) Tert butyl alcohol	5.525	59	1263	1.523	ug/l #	72
16) Acetone	4.442	43	41440	24.749	ug/l #	86
18) Methyl Acetate	5.037	43	2526	0.381	ug/l #	80
20) Methylene Chloride	5.278	84	28493	4.106	ug/l #	83
25) 2-Butanone	7.495	43	9427	3.852	ug/l	99
29) Tetrahydrofuran	7.860	42	758	0.504	ug/l #	59
31) Cyclohexane	8.225	56	11608	1.288	ug/l #	31
36) 1,1-Dichloropropene	8.230	75	43782	4.863	ug/l #	50
37) Ethyl Acetate	7.572	43	67155	13.045	ug/l	95
38) Carbon Tetrachloride	8.236	117	60976	6.200	ug/l #	17
42) 1,2-Dichloroethane	8.683	62	2996	0.328	ug/l #	73
43) Isopropyl Acetate	8.695	43	445190	49.325	ug/l #	80
48) Methyl methacrylate	9.666	41	8499	2.006	ug/l #	28
49) 1,4-Dioxane	9.701	88	67	0.532	ug/l #	30
51) 4-Methyl-2-Pentanone	10.454	43	11768	2.216	ug/l	96
54) cis-1,3-Dichloropropene	10.360	75	152219	14.433	ug/l #	61
57) 1,3-Dichloropropane	11.207	76	19271	1.707	ug/l #	42
59) 2-Hexanone	11.171	43	250241	66.681	ug/l #	19
71) Bromoform	12.848	173	2246	0.496	ug/l #	1
74) N-amyl acetate	12.495	43	2984	0.407	ug/l #	54
76) 1,2,3-Trichloropropane	12.854	75	222166	28.879	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	222166	91.953	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.406	180	466	4.659	ug/l #	41
95) Naphthalene	15.659	128	2271	4.847	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.842	180	264	4.547	ug/l #	75

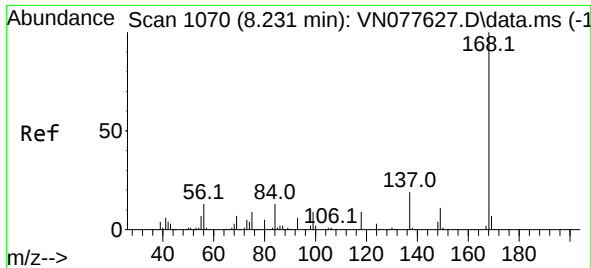
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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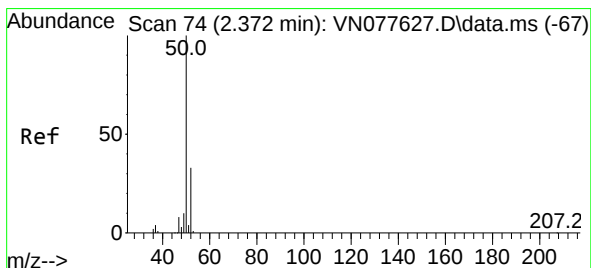
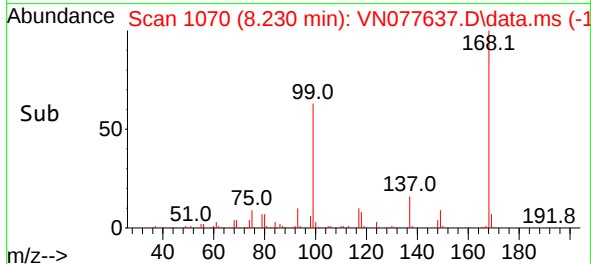
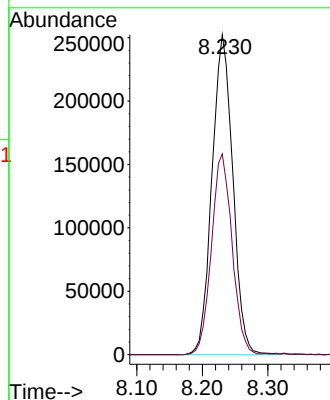
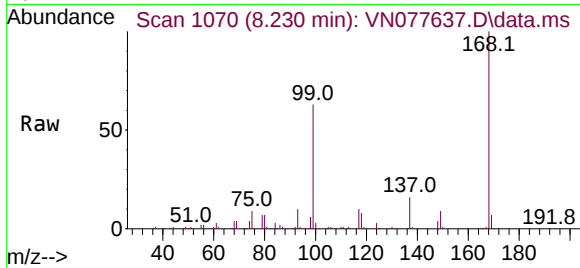




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

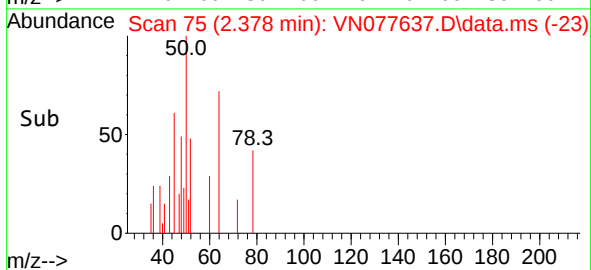
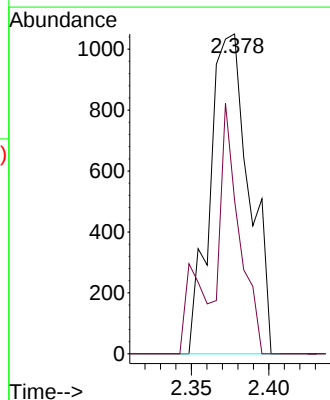
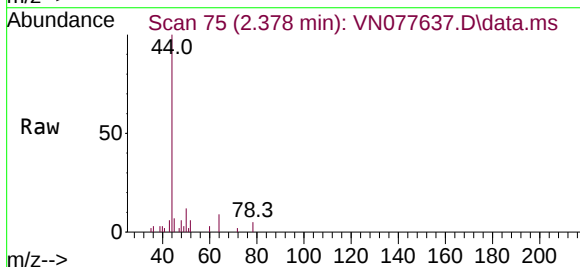
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#03

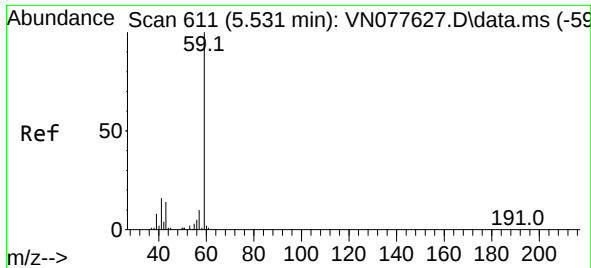
Tgt Ion:168 Resp: 555965
Ion Ratio Lower Upper
168 100
99 62.7 53.0 79.6



#3
Chloromethane
Concen: 0.330 ug/l
RT: 2.378 min Scan# 75
Delta R.T. 0.006 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

Tgt Ion: 50 Resp: 1851
Ion Ratio Lower Upper
50 100
52 47.9 26.5 39.7#

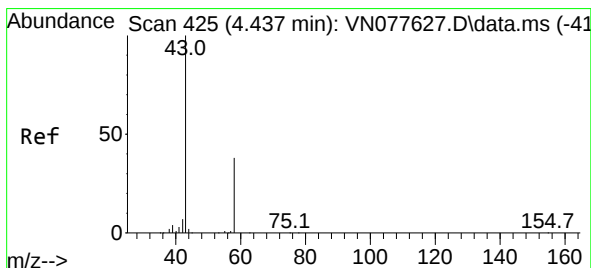
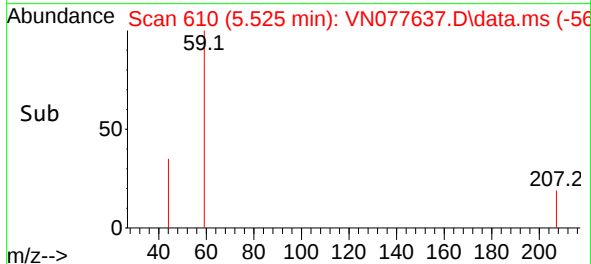
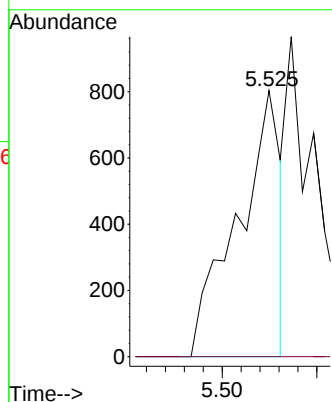
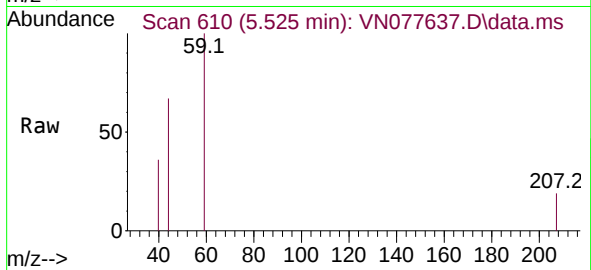




#11
Tert butyl alcohol
Concen: 1.523 ug/l
RT: 5.525 min Scan# 611
Delta R.T. -0.006 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

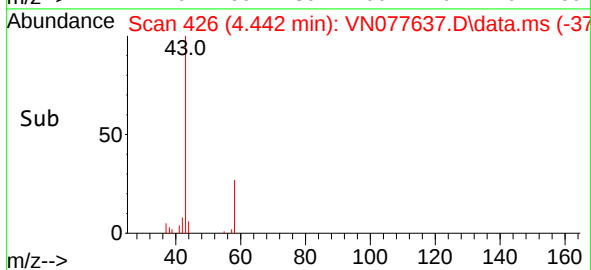
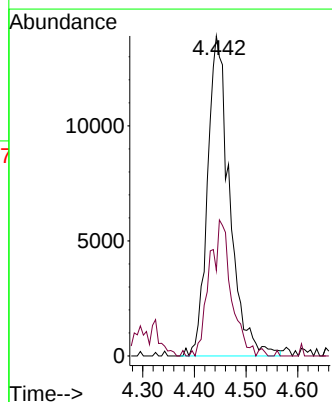
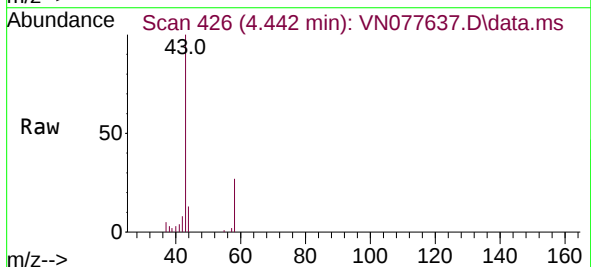
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#03

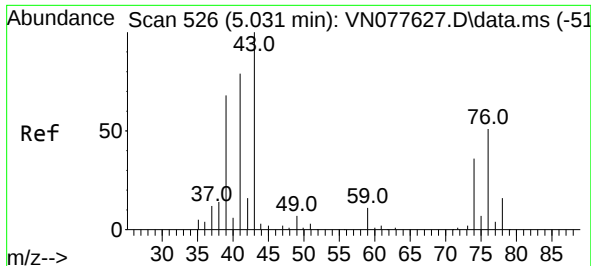
Tgt Ion: 59 Resp: 1263
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 24.749 ug/l
RT: 4.442 min Scan# 426
Delta R.T. 0.005 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

Tgt Ion: 43 Resp: 41440
Ion Ratio Lower Upper
43 100
58 26.8 28.0 42.0#

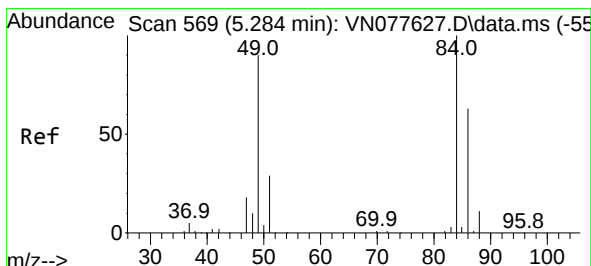
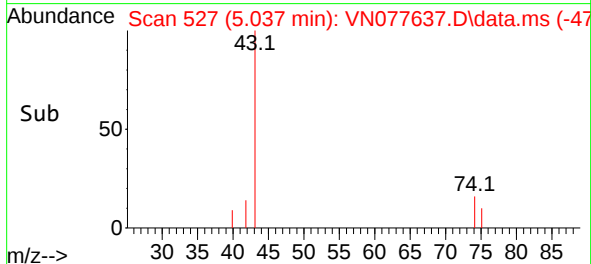
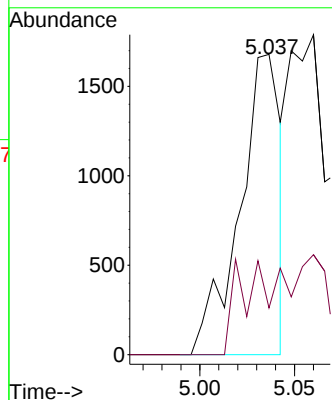
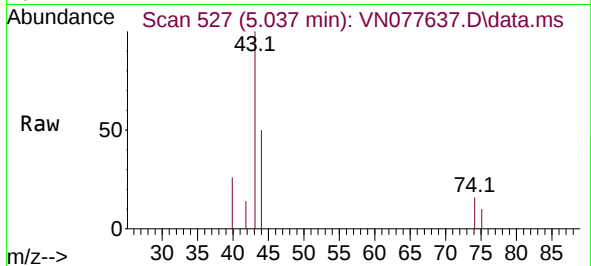




#18
Methyl Acetate
Concen: 0.381 ug/l
RT: 5.037 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

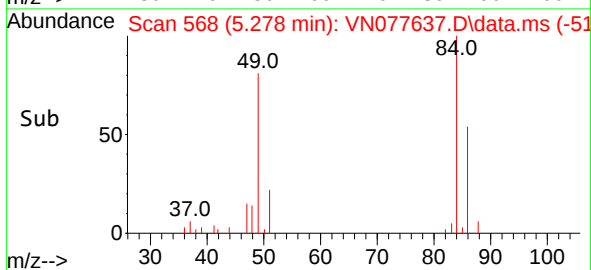
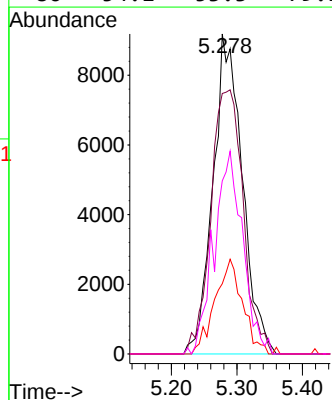
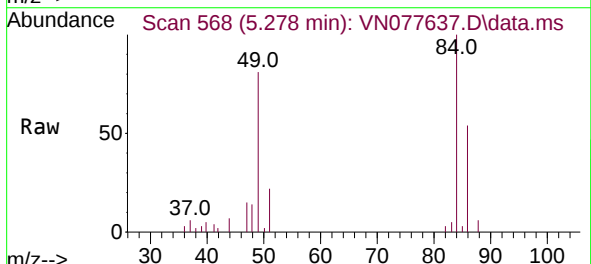
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#03

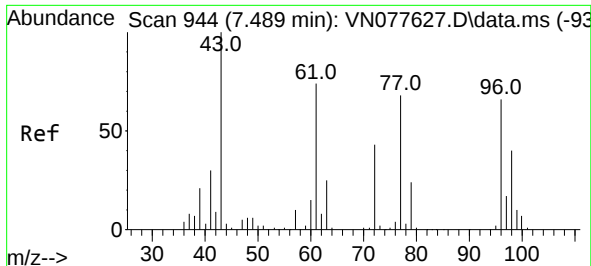
Tgt Ion: 43 Resp: 2526
Ion Ratio Lower Upper
43 100
74 21.4 26.2 39.4#



#20
Methylene Chloride
Concen: 4.106 ug/l
RT: 5.278 min Scan# 568
Delta R.T. -0.006 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

Tgt Ion: 84 Resp: 28493
Ion Ratio Lower Upper
84 100
49 81.4 79.7 119.5
51 21.9 25.2 37.8#
86 54.1 53.3 79.9





#25

2-Butanone

Concen: 3.852 ug/l

RT: 7.495 min Scan# 944

Delta R.T. 0.006 min

Lab File: VN077637.D

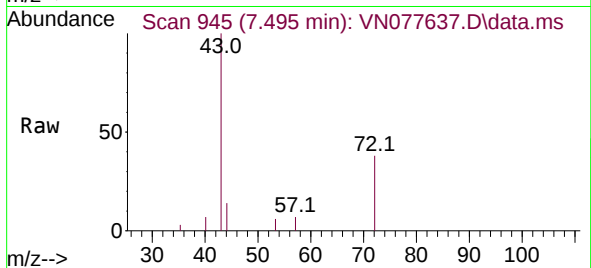
Acq: 09 May 2023 17:19

Instrument :

MSVOA_N

ClientSampleId :

PB152652ZHE#03

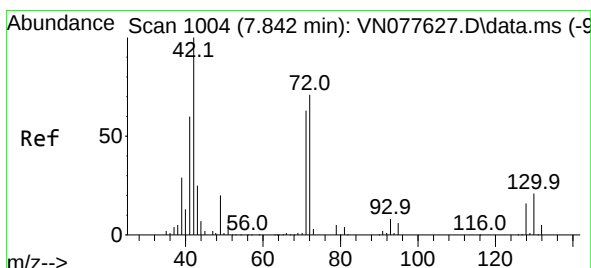
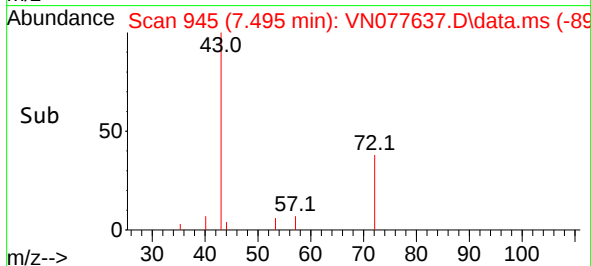
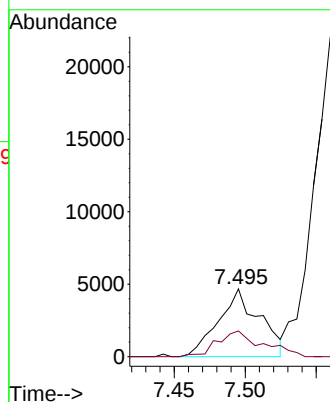


Tgt Ion: 43 Resp: 9427

Ion Ratio Lower Upper

43 100

72 38.0 30.2 45.2



#29

Tetrahydrofuran

Concen: 0.504 ug/l

RT: 7.860 min Scan# 1007

Delta R.T. 0.018 min

Lab File: VN077637.D

Acq: 09 May 2023 17:19

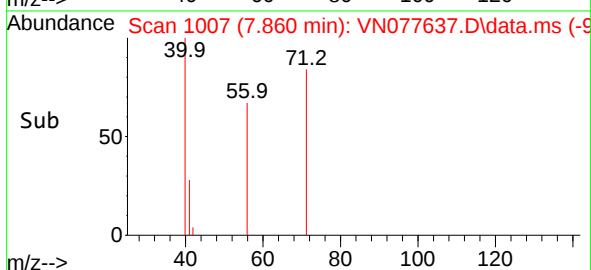
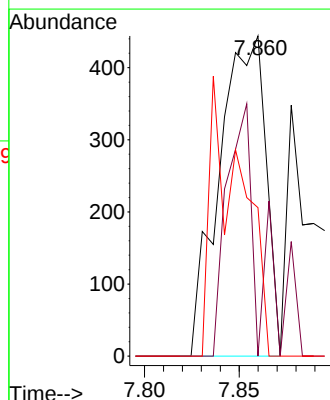
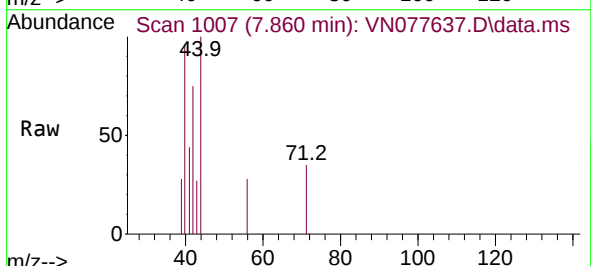
Tgt Ion: 42 Resp: 758

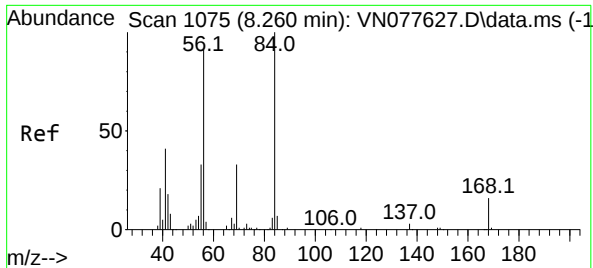
Ion Ratio Lower Upper

42 100

72 57.9 49.8 74.6

71 0.0 47.4 71.2#

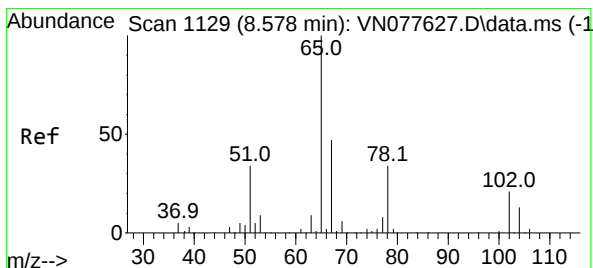
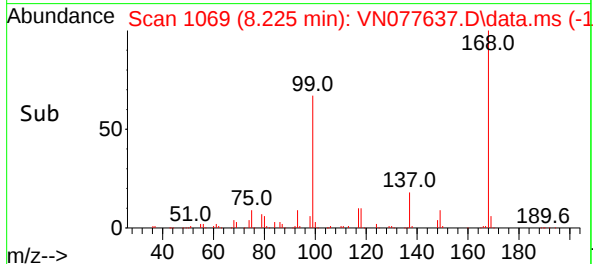
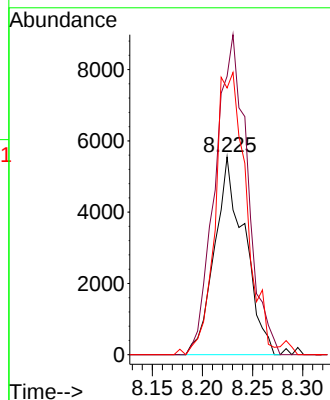
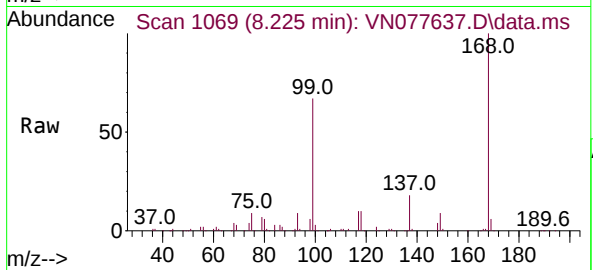




#31
Cyclohexane
Concen: 1.288 ug/l
RT: 8.225 min Scan# 1108
Delta R.T. -0.035 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

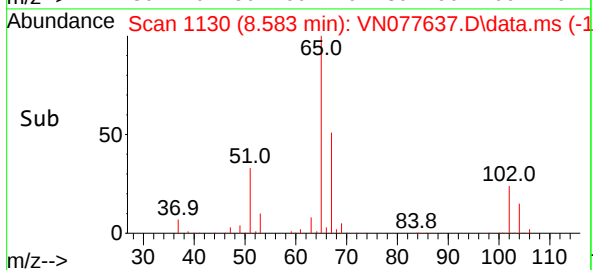
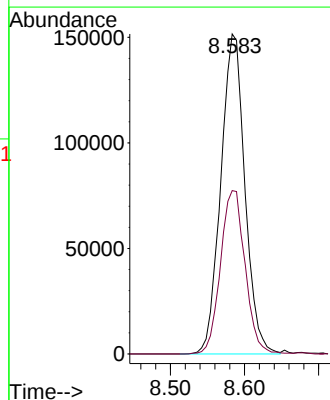
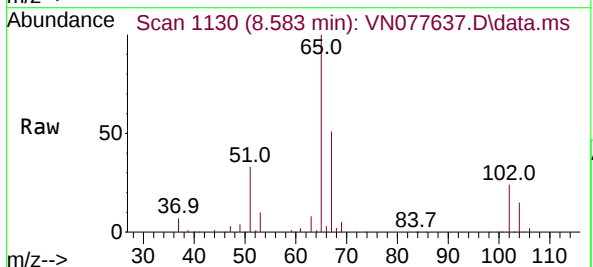
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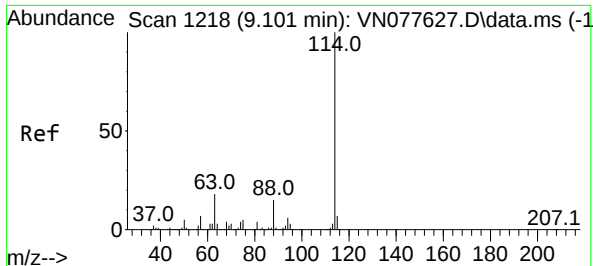
Tgt Ion: 56 Resp: 11608
Ion Ratio Lower Upper
56 100
69 140.8 26.8 40.2#
84 132.1 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 48.519 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. 0.005 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

Tgt Ion: 65 Resp: 342105
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.6

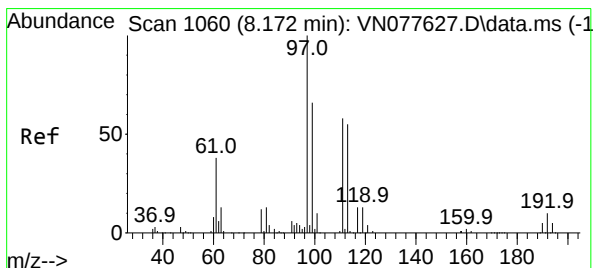
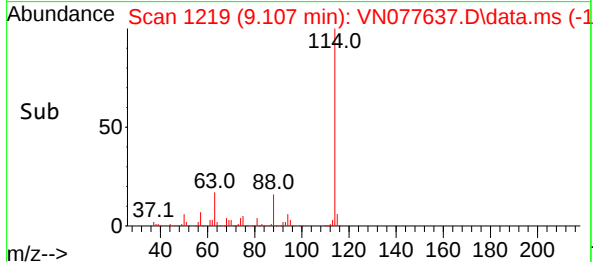
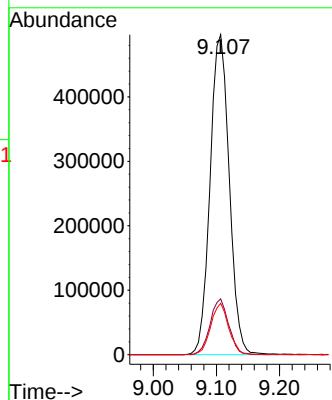
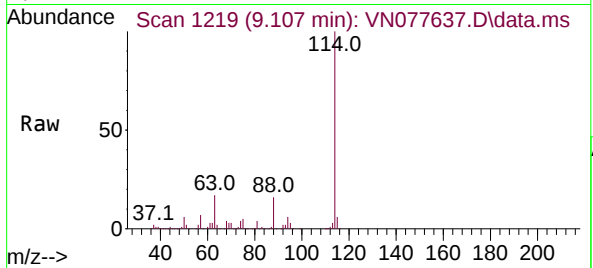




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

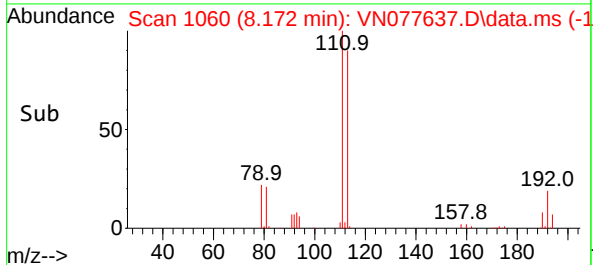
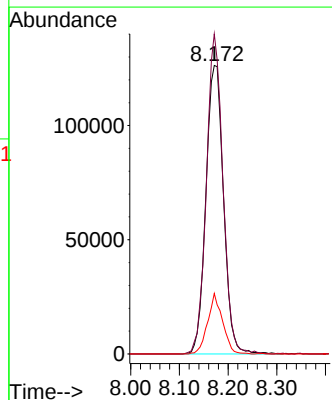
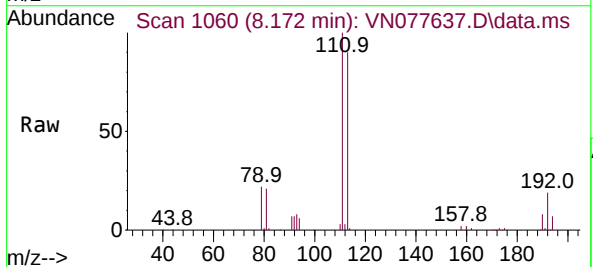
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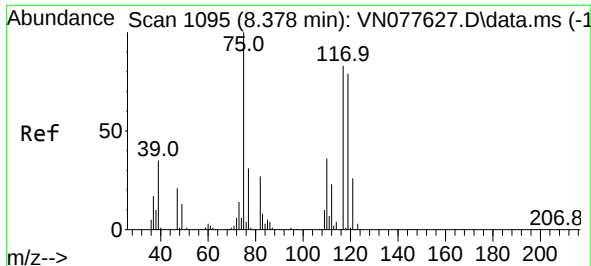
Tgt Ion:114 Resp: 1046010
Ion Ratio Lower Upper
114 100
63 17.4 0.0 36.4
88 16.0 0.0 30.6



#35
Dibromofluoromethane
Concen: 48.551 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

Tgt Ion:113 Resp: 316734
Ion Ratio Lower Upper
113 100
111 104.3 82.6 123.8
192 17.8 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.863 ug/l

RT: 8.230 min Scan# 1095

Delta R.T. -0.148 min

Lab File: VN077637.D

Acq: 09 May 2023 17:19

Instrument :

MSVOA_N

ClientSampleId :

PB152652ZHE#03

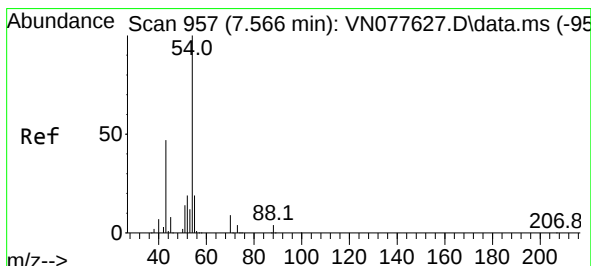
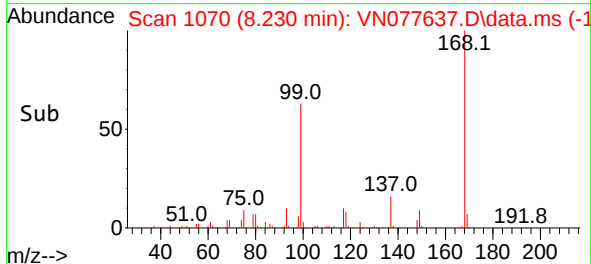
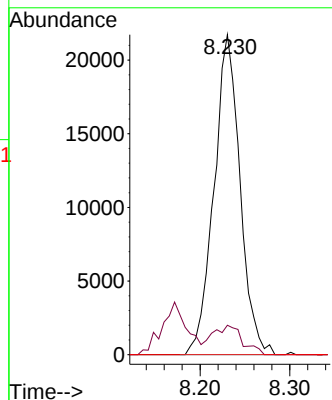
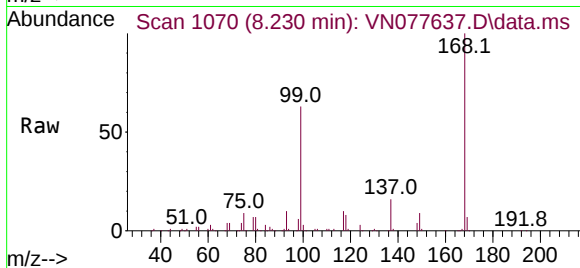
Tgt Ion: 75 Resp: 43782

Ion Ratio Lower Upper

75 100

110 10.7 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 13.045 ug/l

RT: 7.572 min Scan# 958

Delta R.T. 0.006 min

Lab File: VN077637.D

Acq: 09 May 2023 17:19

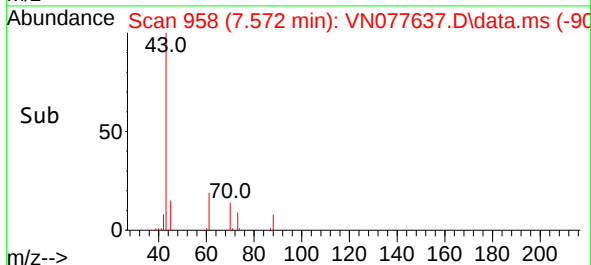
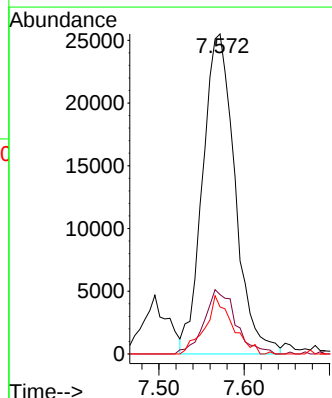
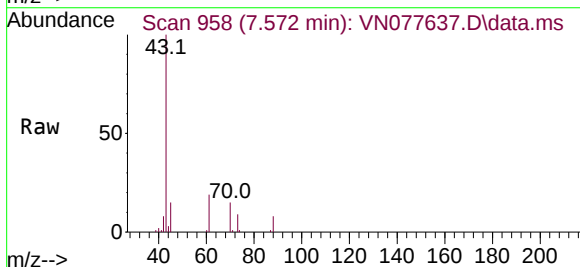
Tgt Ion: 43 Resp: 67155

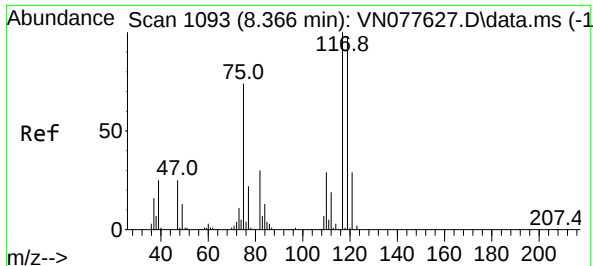
Ion Ratio Lower Upper

43 100

61 19.6 13.2 19.8

70 15.3 11.3 16.9

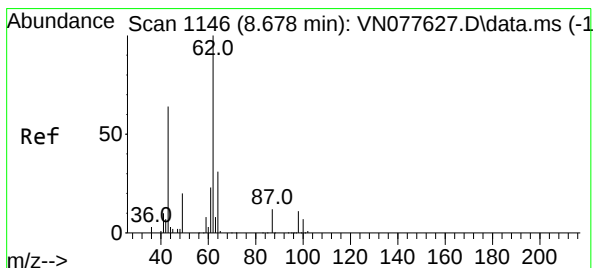
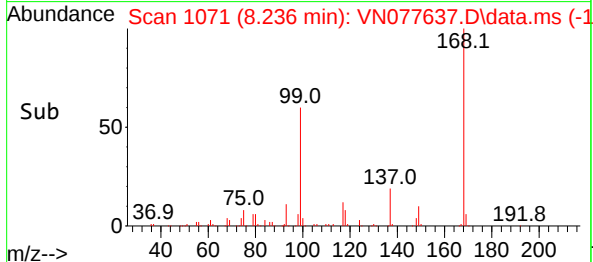
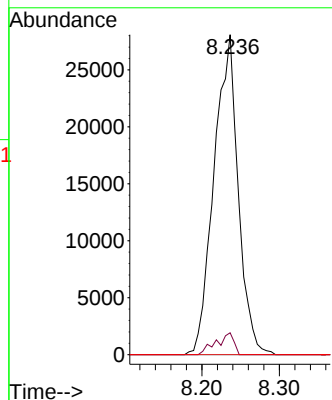
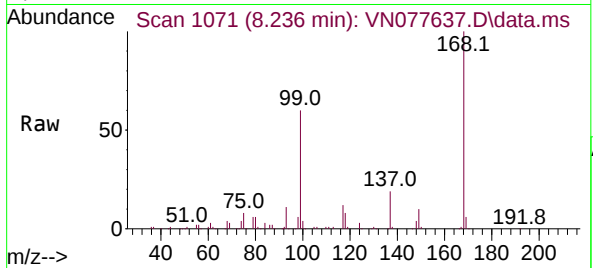




#38
Carbon Tetrachloride
Concen: 6.200 ug/l
RT: 8.236 min Scan# 1107
Delta R.T. -0.130 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

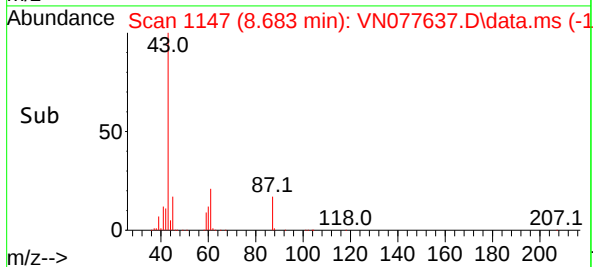
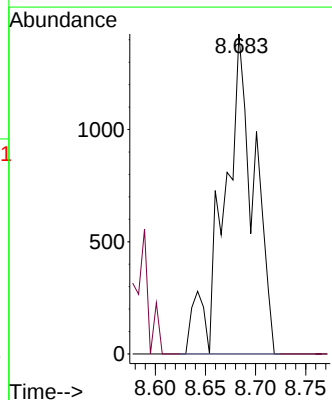
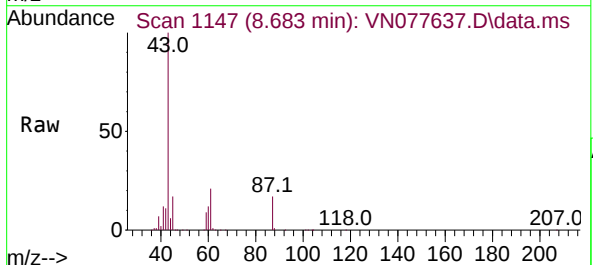
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#03

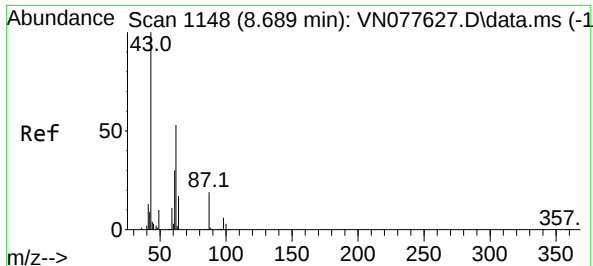
Tgt Ion:117 Resp: 60976
Ion Ratio Lower Upper
117 100
119 6.8 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.328 ug/l
RT: 8.683 min Scan# 1147
Delta R.T. 0.005 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

Tgt Ion: 62 Resp: 2996
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

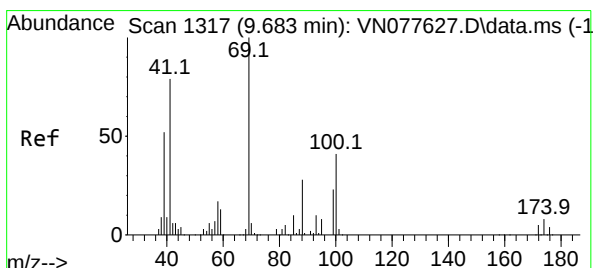
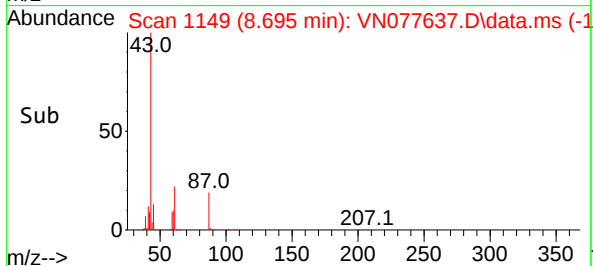
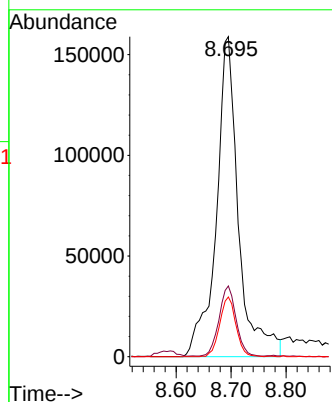
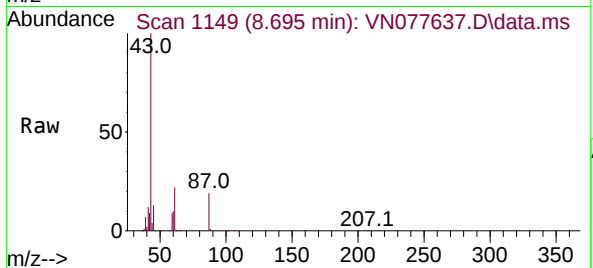




#43
Isopropyl Acetate
Concen: 49.325 ug/l
RT: 8.695 min Scan# 1148
Delta R.T. 0.006 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

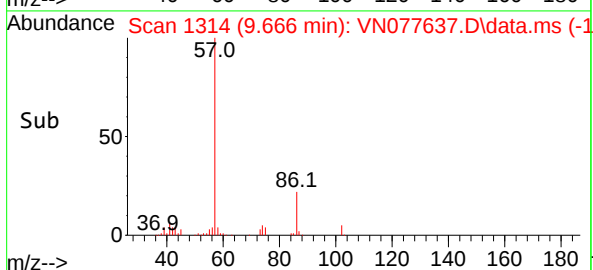
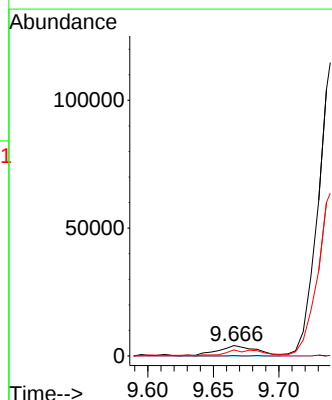
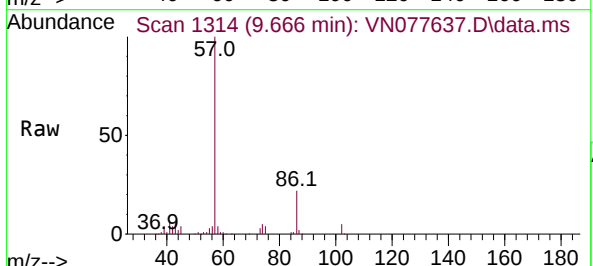
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#03

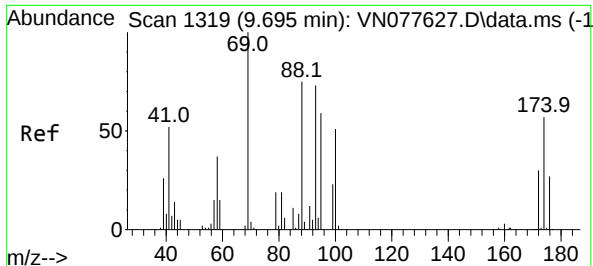
Tgt Ion: 43 Resp: 445190
Ion Ratio Lower Upper
43 100
61 16.9 24.7 37.1#
87 13.6 14.6 21.8#



#48
Methyl methacrylate
Concen: 2.006 ug/l
RT: 9.666 min Scan# 1314
Delta R.T. -0.017 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

Tgt Ion: 41 Resp: 8499
Ion Ratio Lower Upper
41 100
69 0.7 90.4 135.6#
39 54.4 54.6 81.8#





#49

1,4-Dioxane

Concen: 0.532 ug/l

RT: 9.701 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN077637.D

Acq: 09 May 2023 17:19

Instrument :

MSVOA_N

ClientSampleId :

PB152652ZHE#03

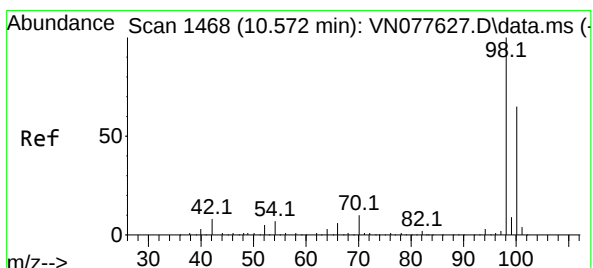
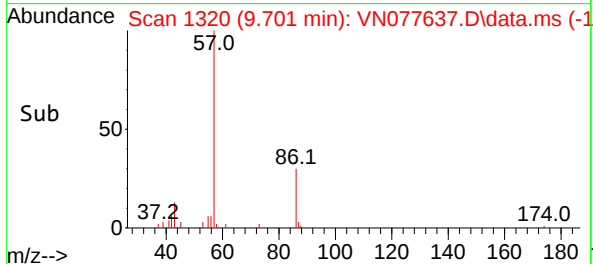
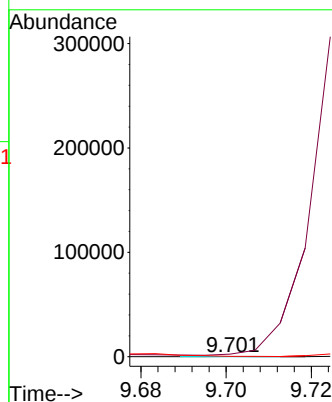
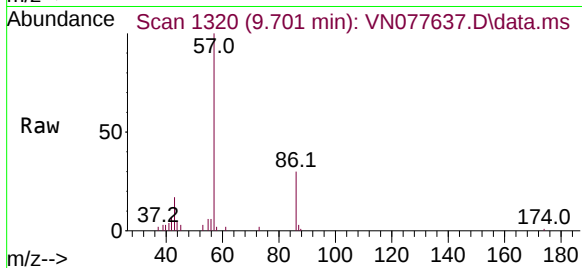
Tgt Ion: 88 Resp: 67

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 0.0 47.0 70.4#



#50

Toluene-d8

Concen: 52.207 ug/l

RT: 10.571 min Scan# 1468

Delta R.T. -0.001 min

Lab File: VN077637.D

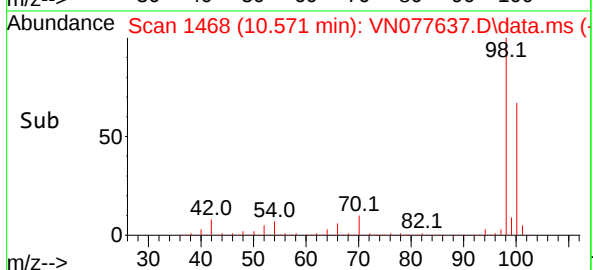
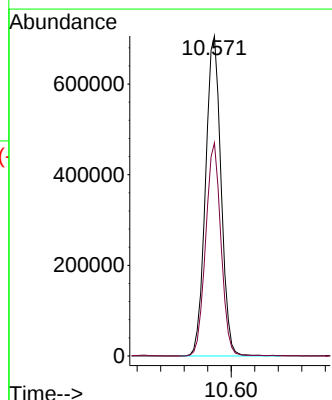
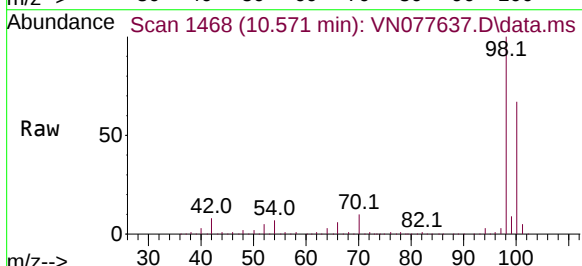
Acq: 09 May 2023 17:19

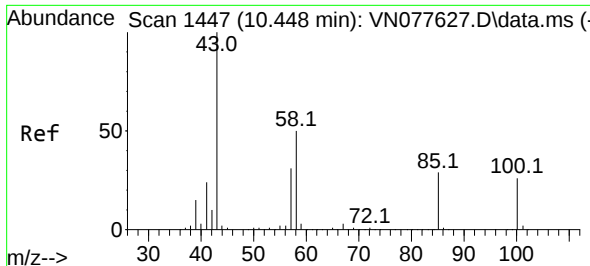
Tgt Ion: 98 Resp: 1289460

Ion Ratio Lower Upper

98 100

100 65.6 52.0 78.0

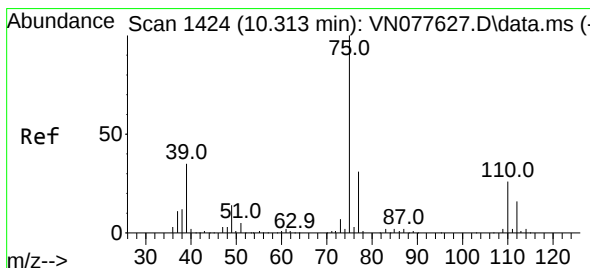
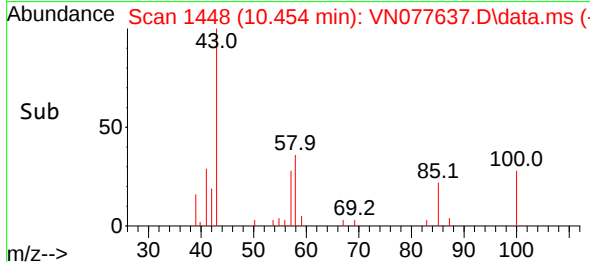
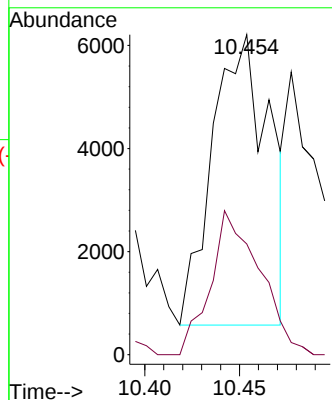
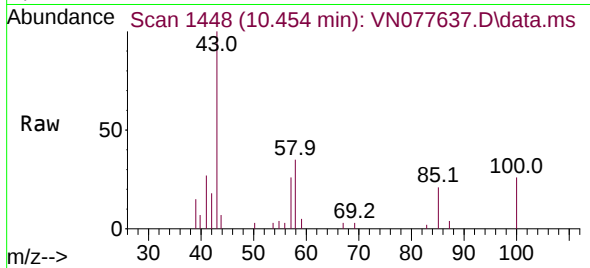




#51
4-Methyl-2-Pentanone
Concen: 2.216 ug/l
RT: 10.454 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

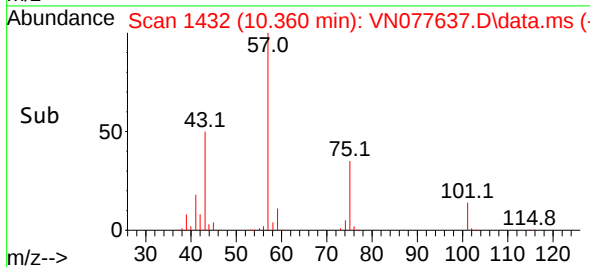
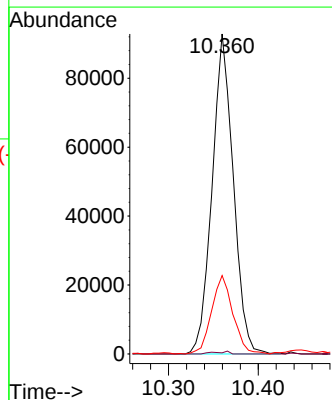
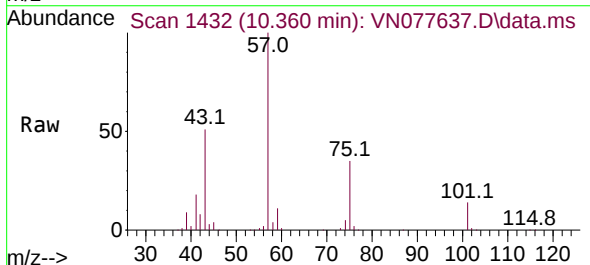
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#03

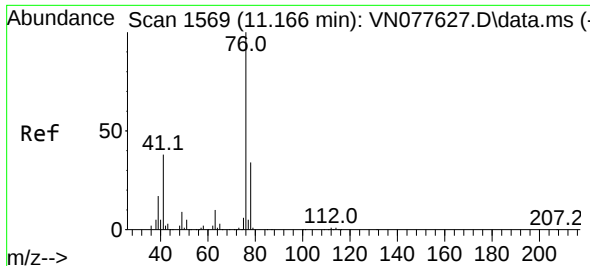
Tgt Ion: 43 Resp: 11768
Ion Ratio Lower Upper
43 100
58 43.0 36.6 54.8



#54
cis-1,3-Dichloropropene
Concen: 14.433 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

Tgt Ion: 75 Resp: 152219
Ion Ratio Lower Upper
75 100
77 0.3 26.1 39.1#
39 24.3 31.6 47.4#





#57

1,3-Dichloropropane

Concen: 1.707 ug/l

RT: 11.207 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN077637.D

Acq: 09 May 2023 17:19

Instrument :

MSVOA_N

ClientSampleId :

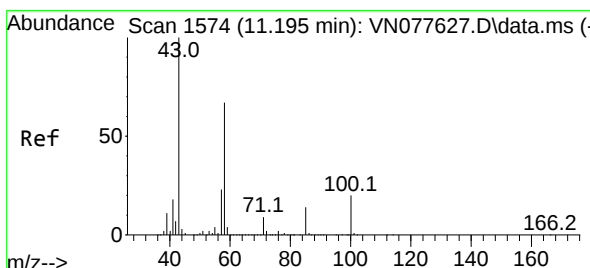
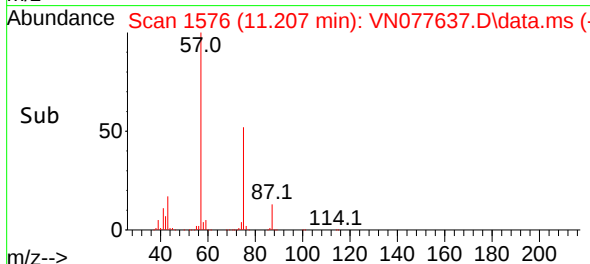
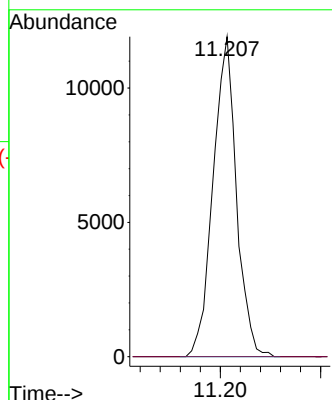
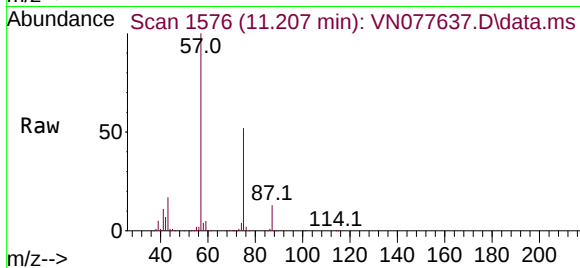
PB152652ZHE#03

Tgt Ion: 76 Resp: 19271

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 66.681 ug/l

RT: 11.171 min Scan# 1570

Delta R.T. -0.024 min

Lab File: VN077637.D

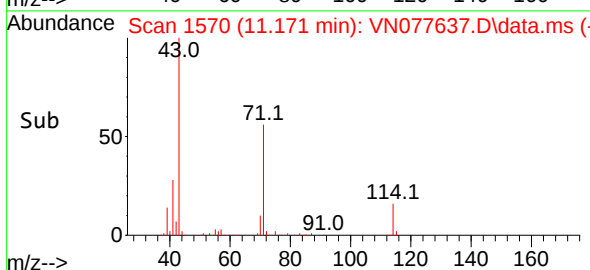
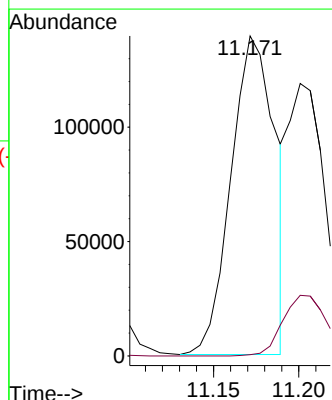
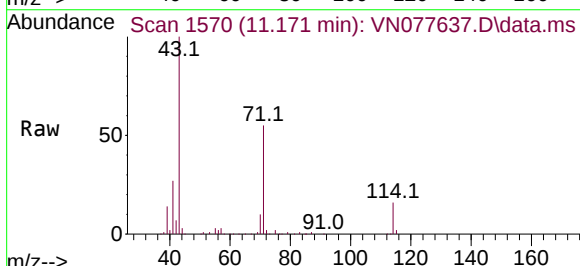
Acq: 09 May 2023 17:19

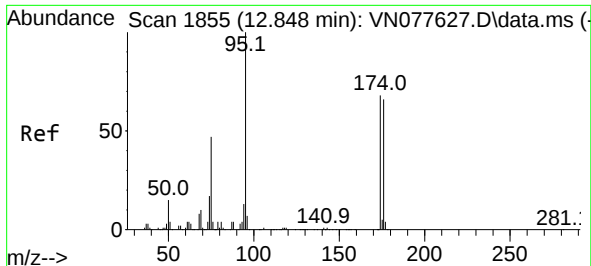
Tgt Ion: 43 Resp: 250241

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

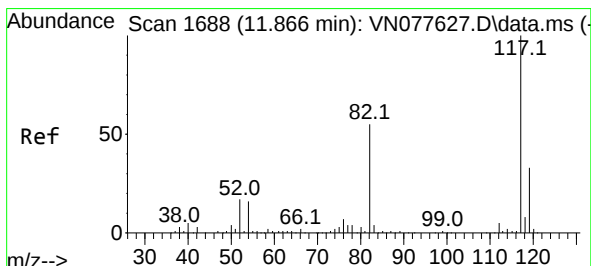
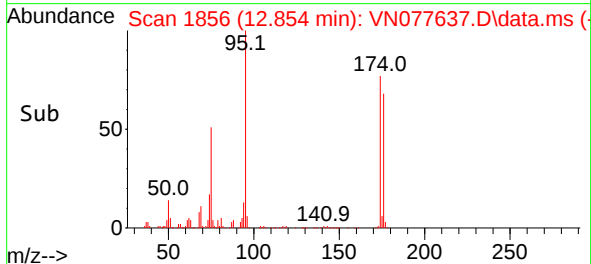
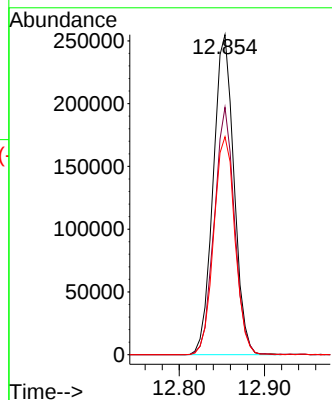
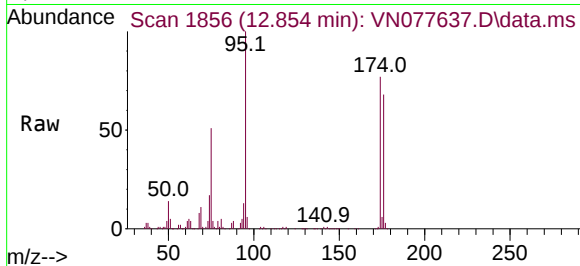




#62
4-Bromofluorobenzene
Concen: 51.617 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

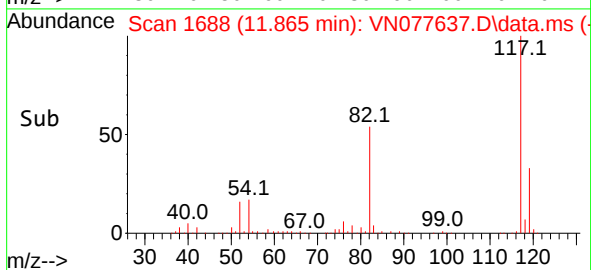
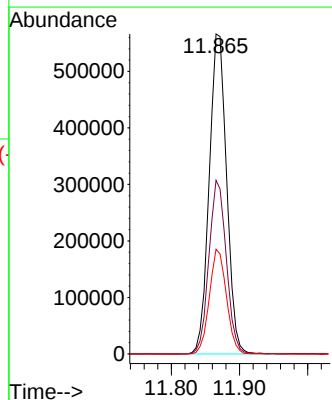
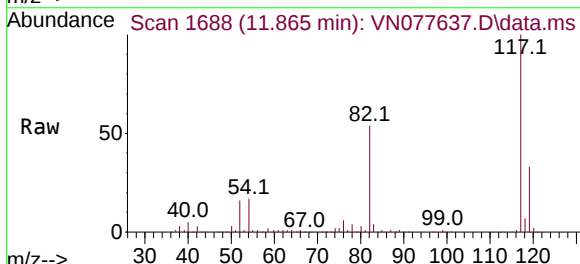
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#03

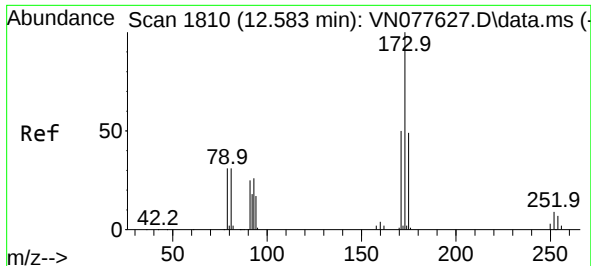
Tgt Ion: 95 Resp: 431197
Ion Ratio Lower Upper
95 100
174 75.2 0.0 143.8
176 69.7 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1688
Delta R.T. -0.001 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

Tgt Ion: 117 Resp: 1007232
Ion Ratio Lower Upper
117 100
82 54.3 44.0 66.0
119 32.7 25.6 38.4

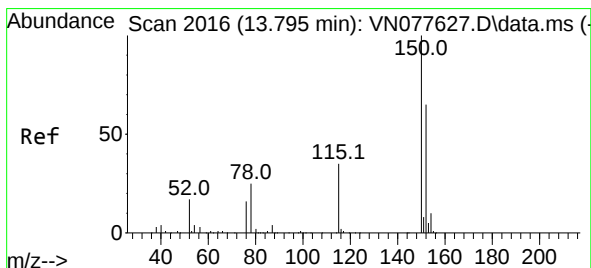
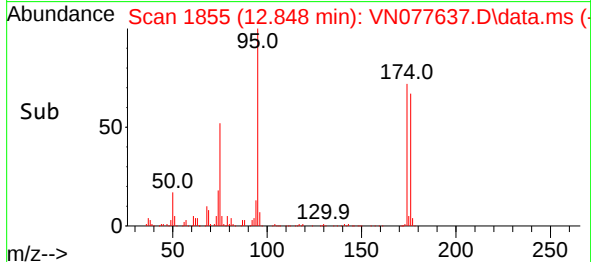
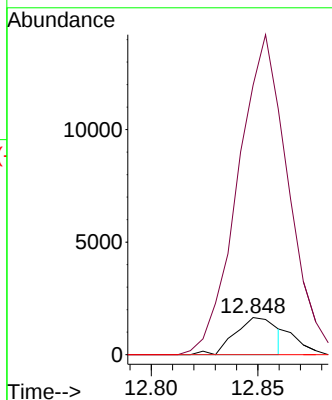
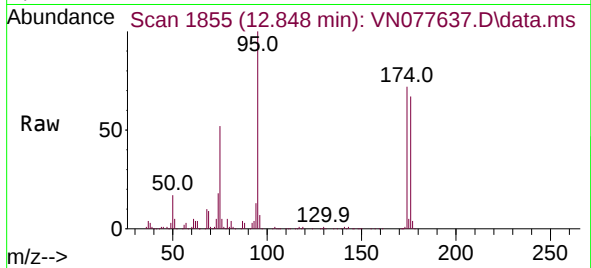




#71
Bromoform
Concen: 0.496 ug/l
RT: 12.848 min Scan# 1810
Delta R.T. 0.265 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

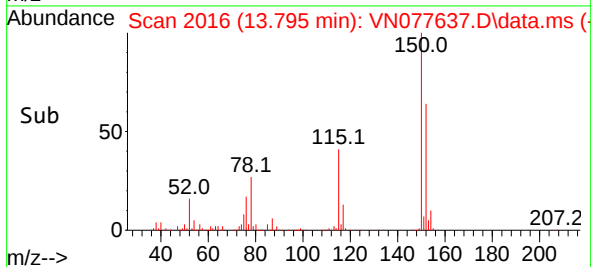
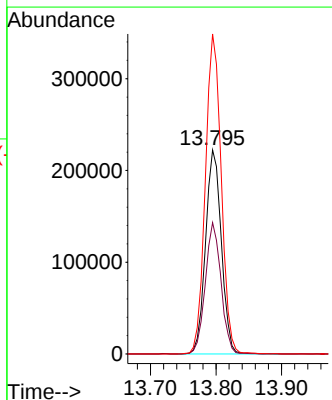
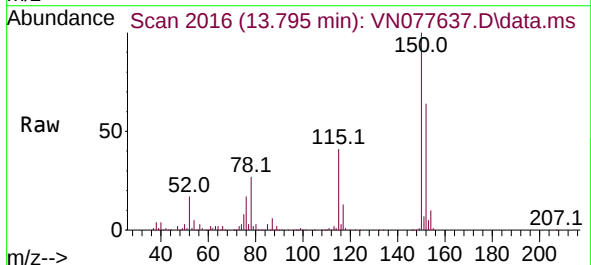
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#03

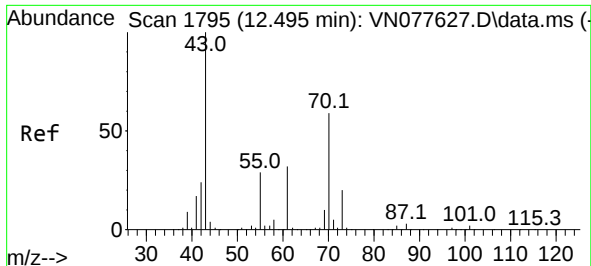
Tgt Ion:173 Resp: 2246
Ion Ratio Lower Upper
173 100
175 845.0 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

Tgt Ion:152 Resp: 372791
Ion Ratio Lower Upper
152 100
115 64.0 32.3 96.8
150 157.4 0.0 355.8

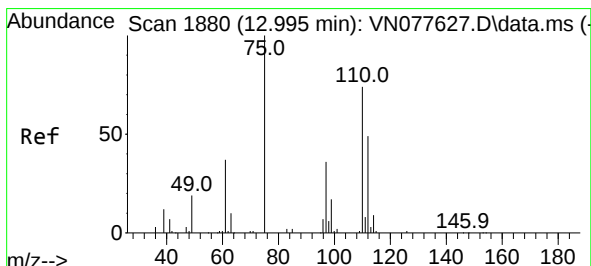
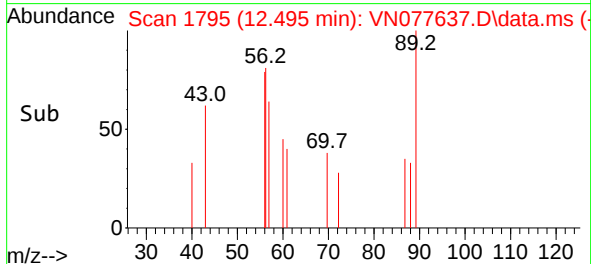
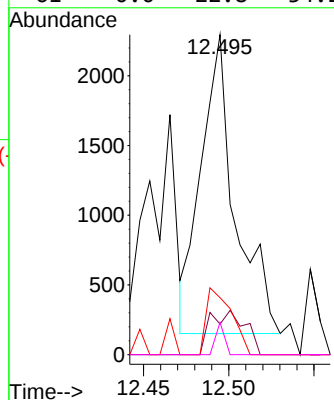
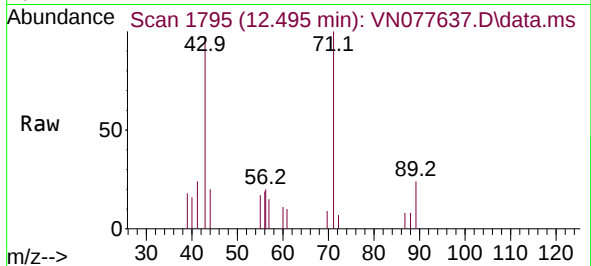




#74
N-amy1 acetate
Concen: 0.407 ug/l
RT: 12.495 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

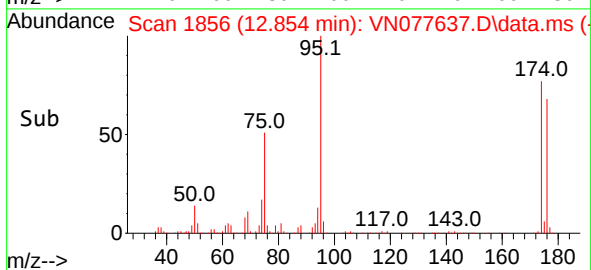
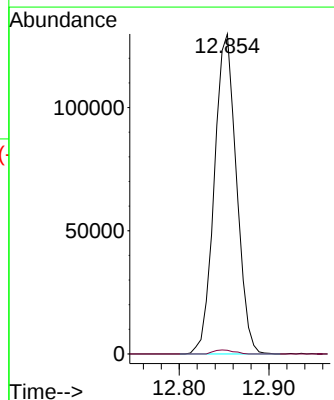
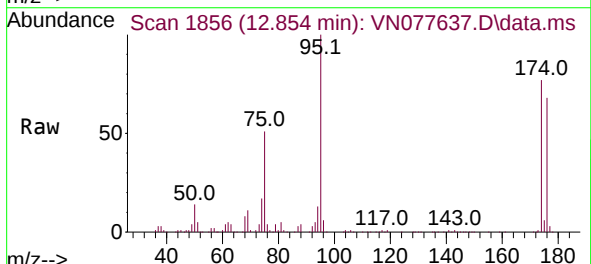
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#03

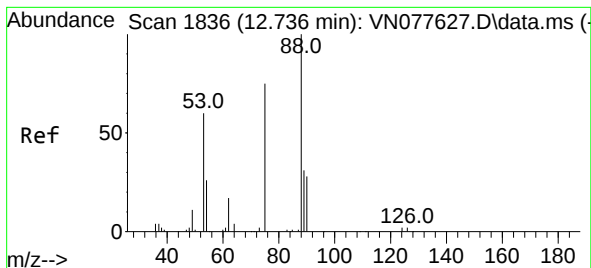
Tgt Ion:	43	Resp:	2984
Ion	Ratio	Lower	Upper
43	100		
70	15.0	43.4	65.2#
55	16.5	21.4	32.0#
61	0.0	22.8	34.2#



#76
1,2,3-Trichloropropane
Concen: 28.879 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

Tgt Ion:	75	Resp:	222166
Ion	Ratio	Lower	Upper
75	100		
77	1.1	84.5	253.5#

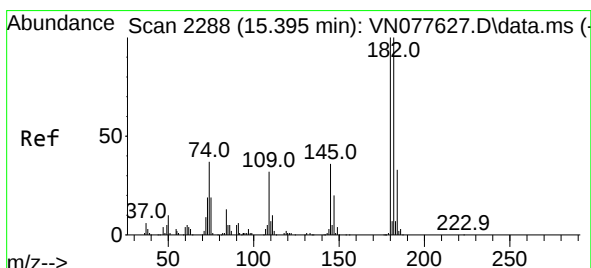
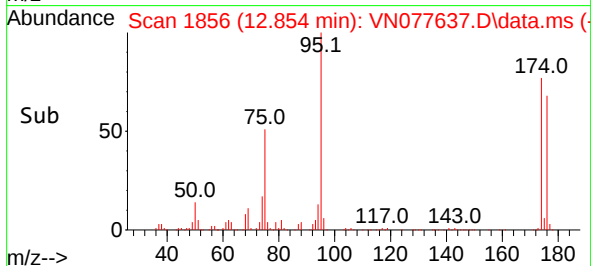
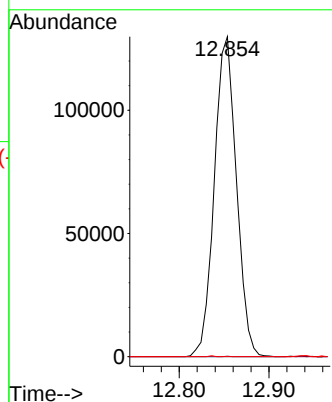
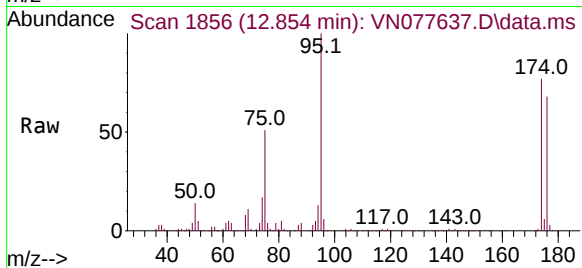




#81
trans-1,4-Dichloro-2-butene
Concen: 91.953 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

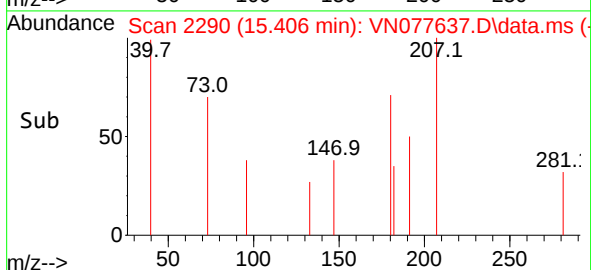
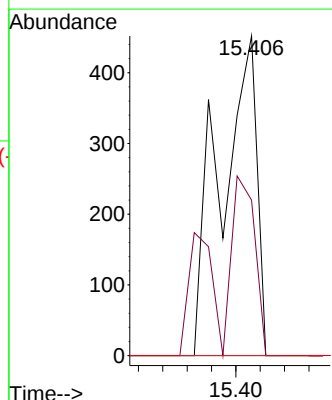
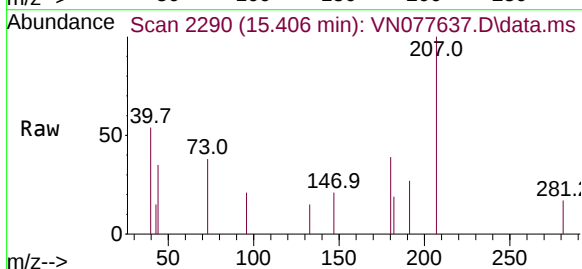
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#03

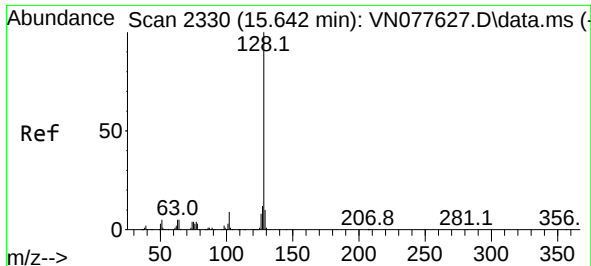
Tgt Ion: 75 Resp: 222166
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.1 38.8 58.2#



#93
1,2,4-Trichlorobenzene
Concen: 4.659 ug/l
RT: 15.406 min Scan# 2290
Delta R.T. 0.011 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

Tgt Ion:180 Resp: 466
Ion Ratio Lower Upper
180 100
182 35.8 46.1 138.2#
145 0.0 16.6 49.8#

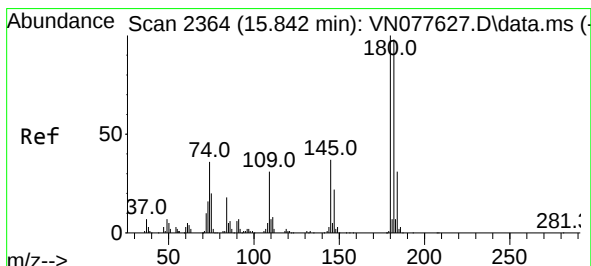
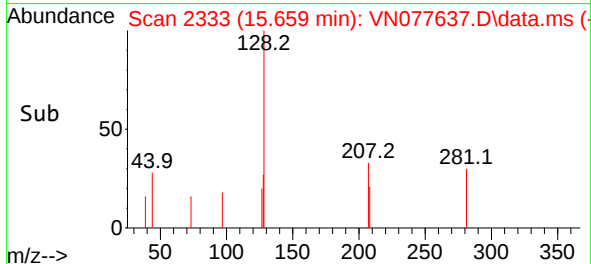
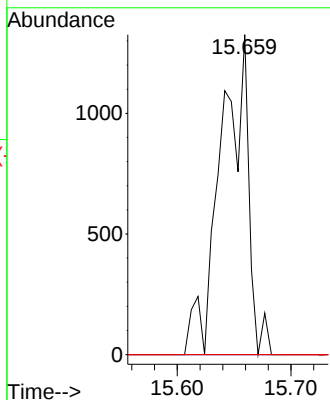
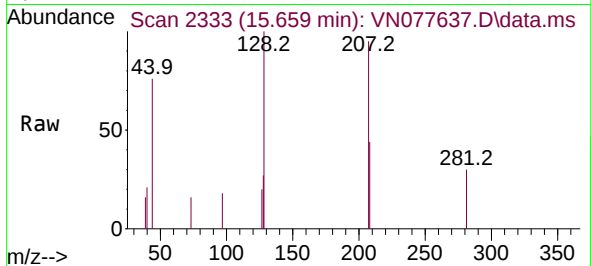




#95
Naphthalene
Concen: 4.847 ug/l
RT: 15.659 min Scan# 21
Delta R.T. 0.017 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#03

Tgt Ion:128 Resp: 2271
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 4.547 ug/l
RT: 15.842 min Scan# 2364
Delta R.T. -0.000 min
Lab File: VN077637.D
Acq: 09 May 2023 17:19

Tgt Ion:180 Resp: 264
Ion Ratio Lower Upper
180 100
182 81.1 46.2 138.6
145 0.0 17.5 52.6#

