

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050923\
 Data File : VN077636.D
 Acq On : 09 May 2023 16:55
 Operator : JC\MD
 Sample : PB152652ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152652ZHE#02

Quant Time: May 10 04:47:32 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)

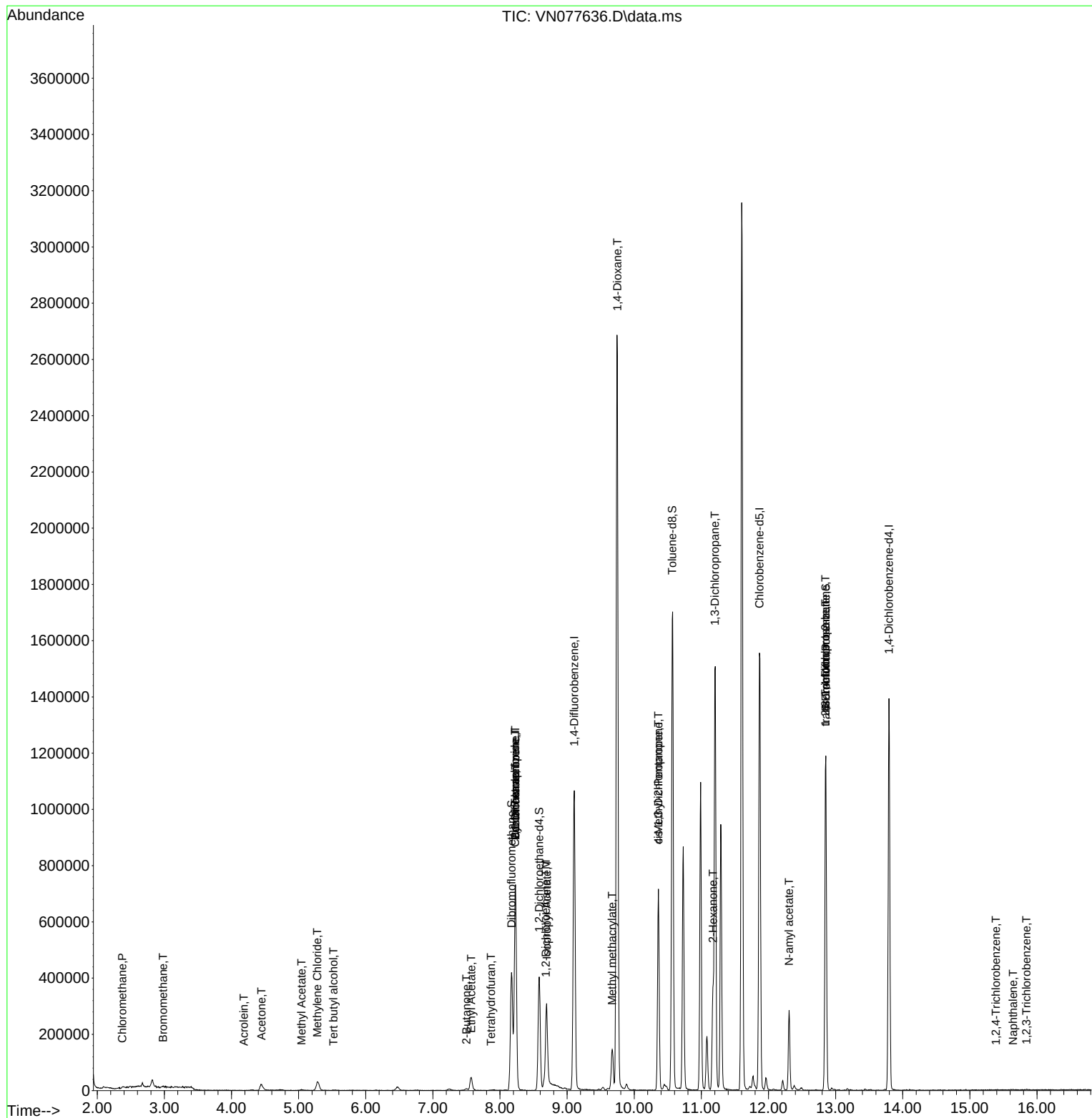
Internal Standards						
1) Pentafluorobenzene	8.230	168	547420	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	993651	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	997721	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	374319	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	336827	48.516	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.040%
35) Dibromofluoromethane	8.172	113	309778	49.987	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.980%
50) Toluene-d8	10.566	98	1237850	52.758	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	105.520%
62) 4-Bromofluorobenzene	12.854	95	430411	54.238	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	108.480%
Target Compounds						
					Qvalue	
3) Chloromethane	2.372	50	2724	0.494	ug/l #	74
5) Bromomethane	2.978	94	2028	0.350	ug/l #	55
11) Tert butyl alcohol	5.519	59	1272	1.557	ug/l #	72
13) Acrolein	4.184	56	216	0.273	ug/l #	55
16) Acetone	4.448	43	40524	24.580	ug/l	96
18) Methyl Acetate	5.042	43	2915	0.446	ug/l #	81
20) Methylene Chloride	5.278	84	26829	3.927	ug/l #	88
25) 2-Butanone	7.501	43	10379	4.307	ug/l #	83
29) Tetrahydrofuran	7.866	42	948	0.640	ug/l #	63
31) Cyclohexane	8.230	56	11211	1.264	ug/l #	22
36) 1,1-Dichloropropene	8.230	75	44049	5.151	ug/l #	49
37) Ethyl Acetate	7.572	43	63844	13.056	ug/l #	92
38) Carbon Tetrachloride	8.225	117	59096	6.325	ug/l #	15
42) 1,2-Dichloroethane	8.683	62	2876	0.331	ug/l #	73
43) Isopropyl Acetate	8.695	43	360339	42.027	ug/l #	86
48) Methyl methacrylate	9.672	41	7466	1.855	ug/l #	30
49) 1,4-Dioxane	9.748	88	540	4.512	ug/l #	1
51) 4-Methyl-2-Pentanone	10.360	43	228394	45.279	ug/l #	43
54) cis-1,3-Dichloropropene	10.360	75	147411	14.713	ug/l #	61
57) 1,3-Dichloropropane	11.201	76	19631	1.830	ug/l #	43
59) 2-Hexanone	11.171	43	250300	70.211	ug/l #	19
71) Bromoform	12.854	173	2374	0.529	ug/l #	1
74) N-amyl acetate	12.307	43	74966	10.173	ug/l #	48
76) 1,2,3-Trichloropropane	12.848	75	224805	29.102	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.848	75	224805	92.665	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.389	180	604	4.682	ug/l #	78
95) Naphthalene	15.642	128	2392	4.853	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.842	180	444	4.579	ug/l #	53

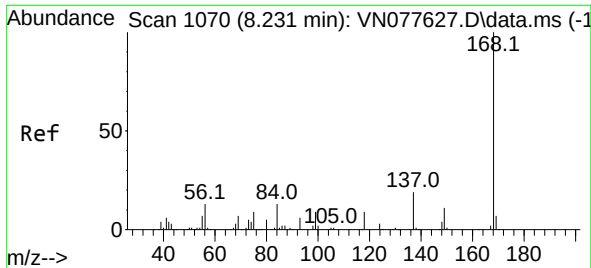
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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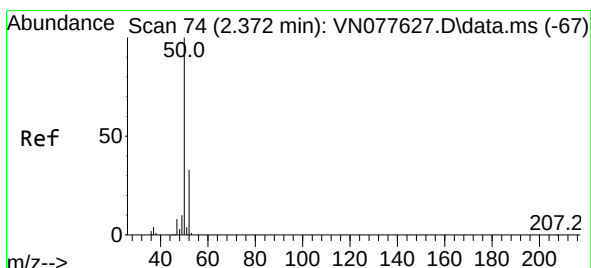
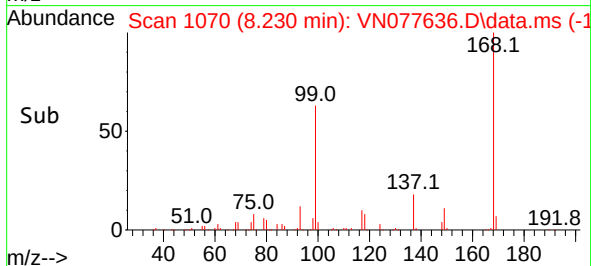
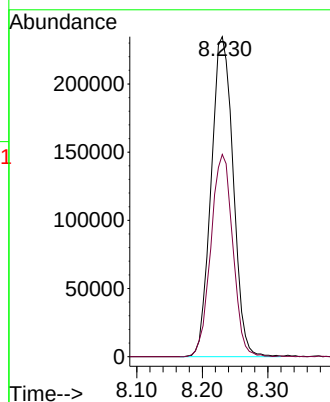
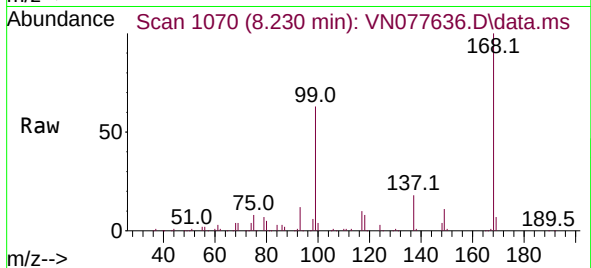




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

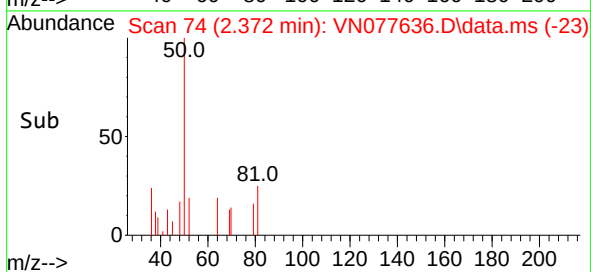
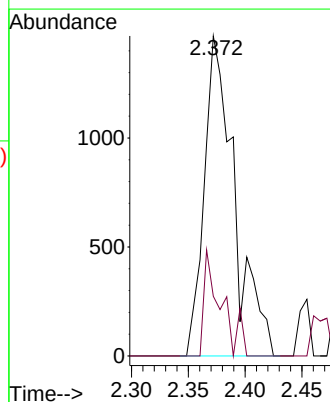
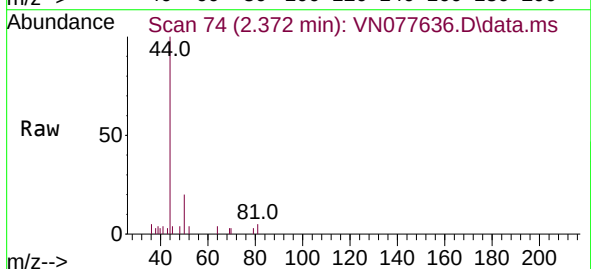
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#02

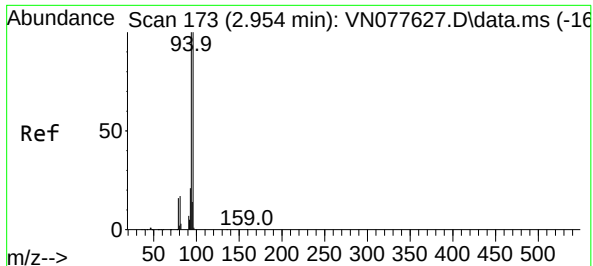
Tgt Ion:168 Resp: 547420
Ion Ratio Lower Upper
168 100
99 63.2 53.0 79.6



#3
Chloromethane
Concen: 0.494 ug/l
RT: 2.372 min Scan# 74
Delta R.T. 0.000 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

Tgt Ion: 50 Resp: 2724
Ion Ratio Lower Upper
50 100
52 18.7 26.5 39.7#

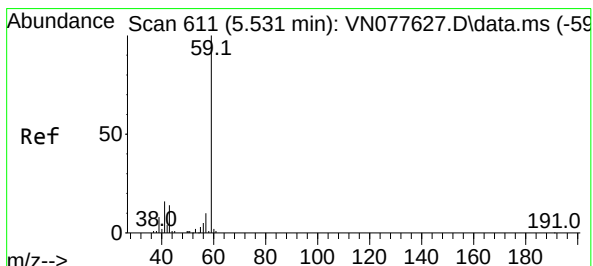
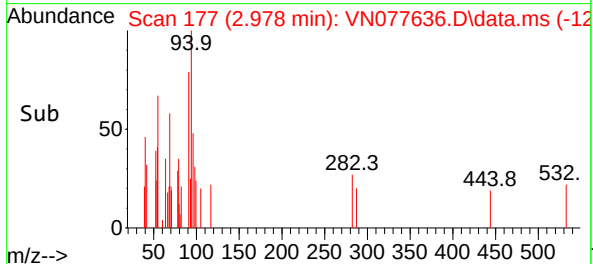
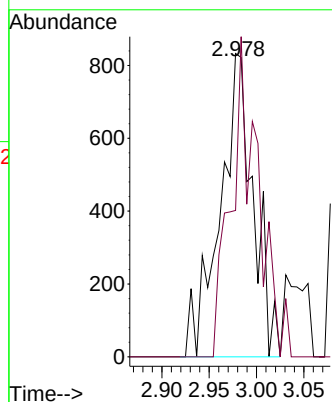
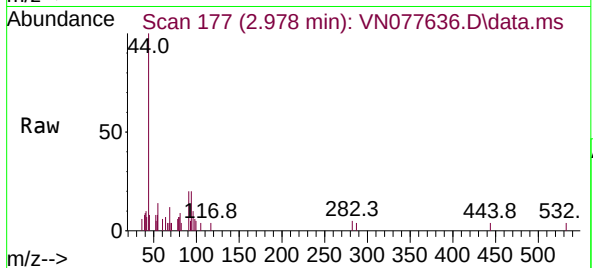




#5
Bromomethane
Concen: 0.350 ug/l
RT: 2.978 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

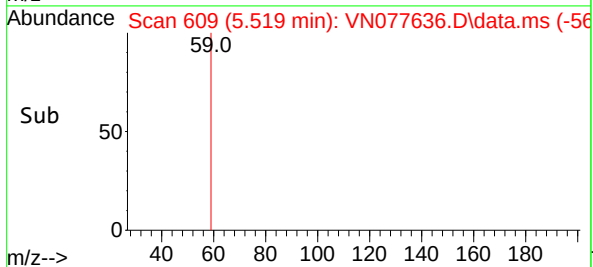
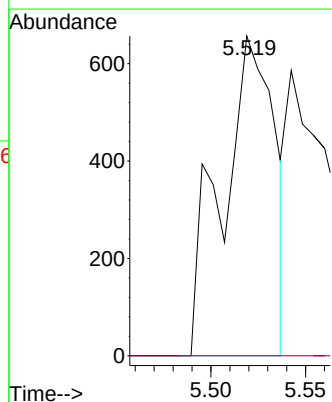
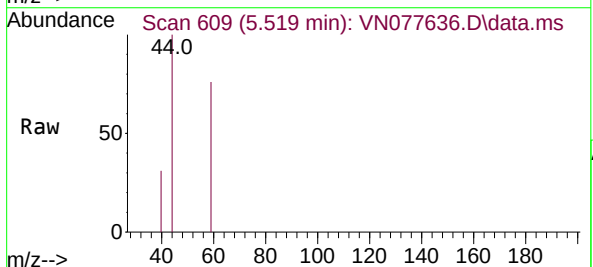
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#02

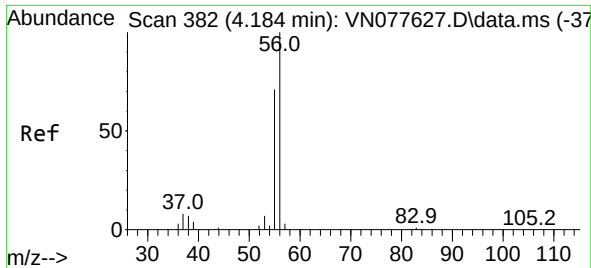
Tgt Ion: 94 Resp: 2028
Ion Ratio Lower Upper
94 100
96 48.3 73.1 109.7#



#11
Tert butyl alcohol
Concen: 1.557 ug/l
RT: 5.519 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

Tgt Ion: 59 Resp: 1272
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#13

Acrolein

Concen: 0.273 ug/l

RT: 4.184 min Scan# 382

Delta R.T. -0.000 min

Lab File: VN077636.D

Acq: 09 May 2023 16:55

Instrument :

MSVOA_N

ClientSampleId :

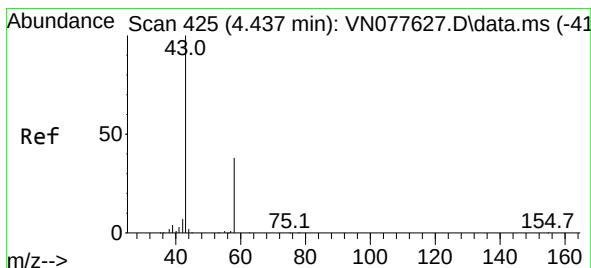
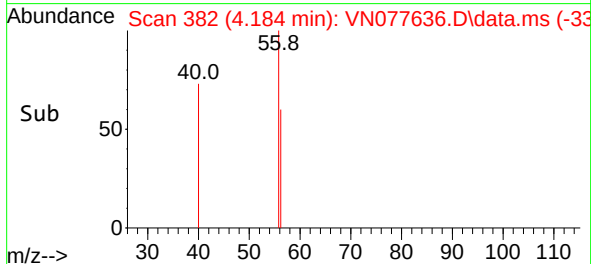
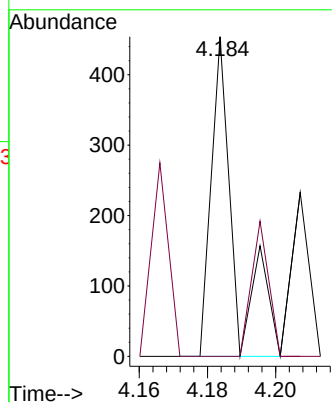
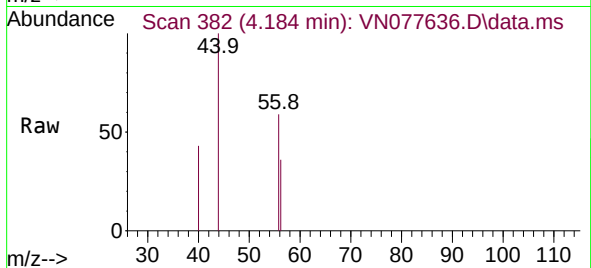
PB152652ZHE#02

Tgt Ion: 56 Resp: 216

Ion Ratio Lower Upper

56 100

55 31.5 54.5 81.7#



#16

Acetone

Concen: 24.580 ug/l

RT: 4.448 min Scan# 427

Delta R.T. 0.011 min

Lab File: VN077636.D

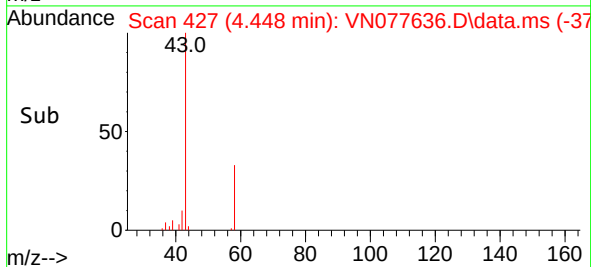
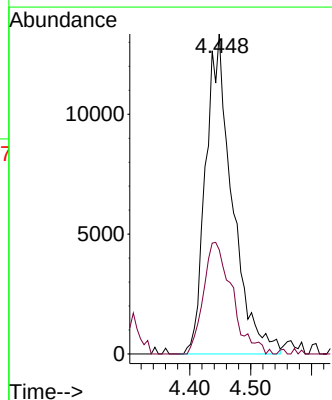
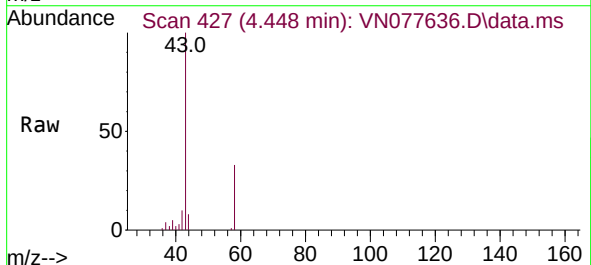
Acq: 09 May 2023 16:55

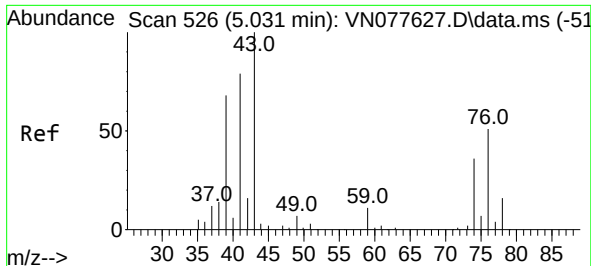
Tgt Ion: 43 Resp: 40524

Ion Ratio Lower Upper

43 100

58 32.6 28.0 42.0

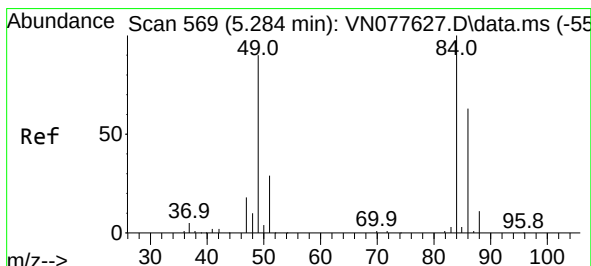
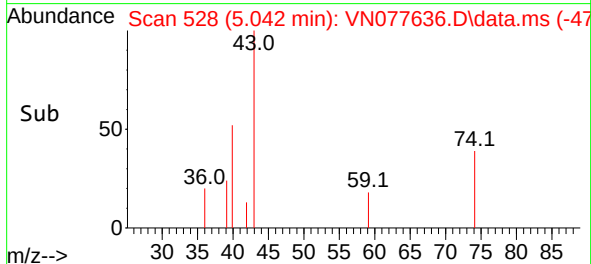
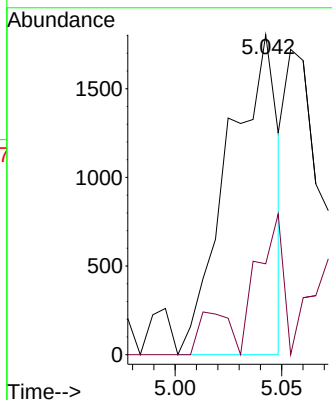
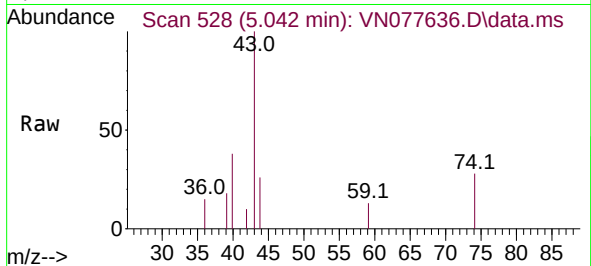




#18
Methyl Acetate
Concen: 0.446 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.011 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

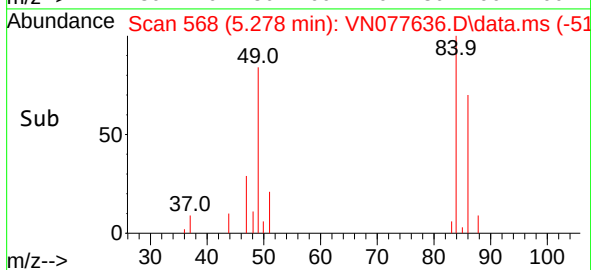
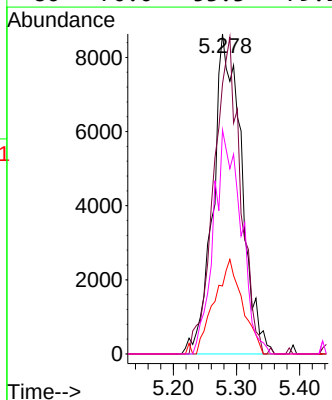
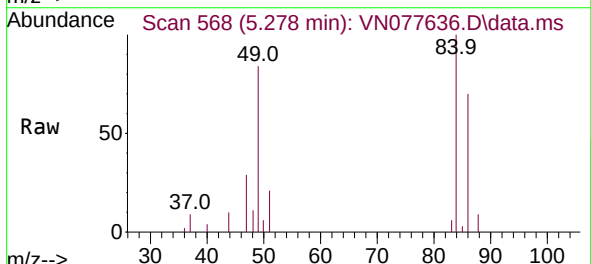
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#02

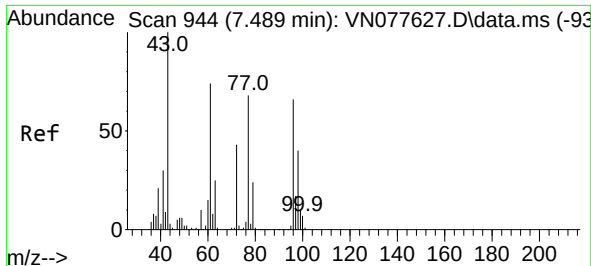
Tgt Ion: 43 Resp: 2915
Ion Ratio Lower Upper
43 100
74 22.2 26.2 39.4#



#20
Methylene Chloride
Concen: 3.927 ug/l
RT: 5.278 min Scan# 568
Delta R.T. -0.006 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

Tgt Ion: 84 Resp: 26829
Ion Ratio Lower Upper
84 100
49 84.4 79.7 119.5
51 21.2 25.2 37.8#
86 70.0 53.3 79.9

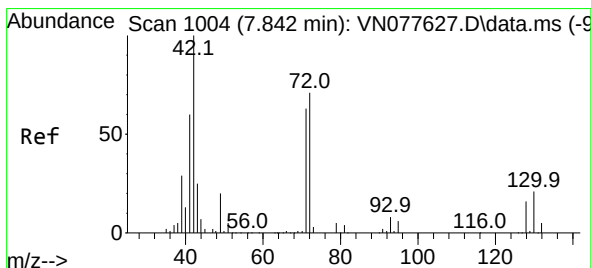
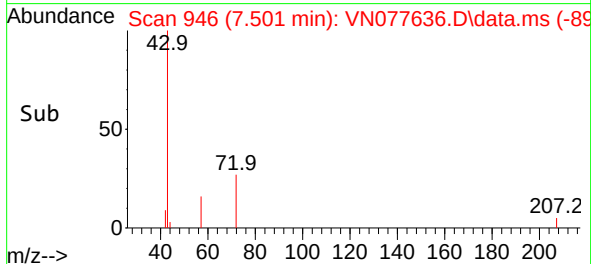
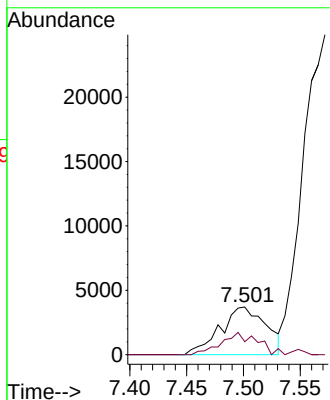
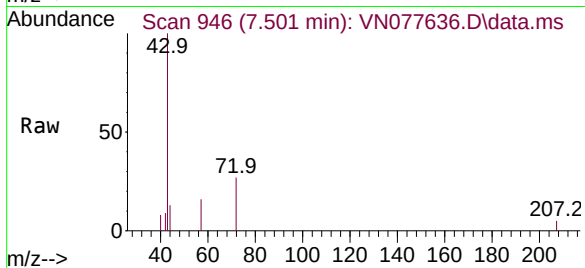




#25
2-Butanone
Concen: 4.307 ug/l
RT: 7.501 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

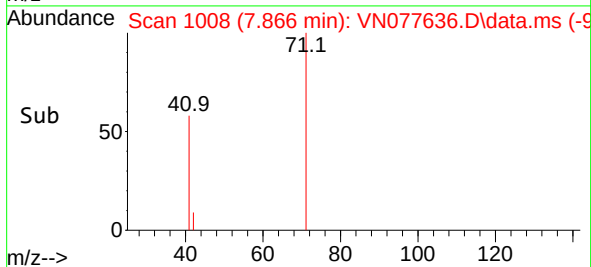
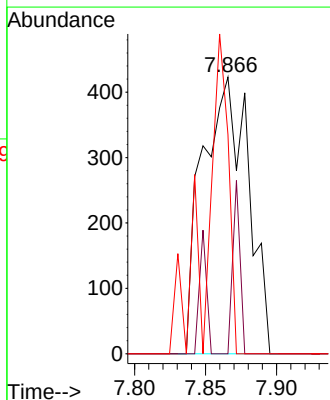
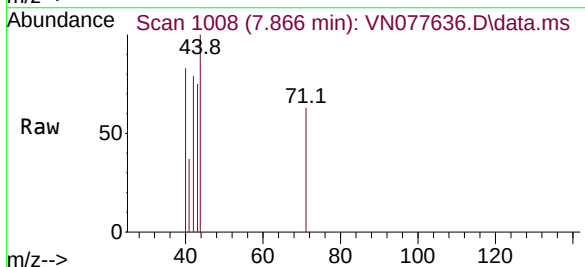
Instrument :
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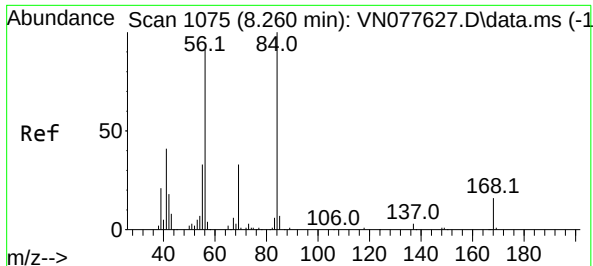
Tgt Ion: 43 Resp: 10379
Ion Ratio Lower Upper
43 100
72 27.3 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.640 ug/l
RT: 7.866 min Scan# 1008
Delta R.T. 0.024 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

Tgt Ion: 42 Resp: 948
Ion Ratio Lower Upper
42 100
72 9.9 49.8 74.6#
71 55.9 47.4 71.2

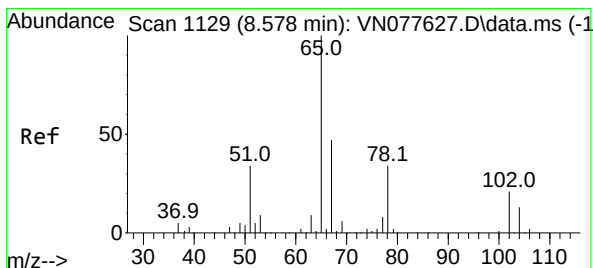
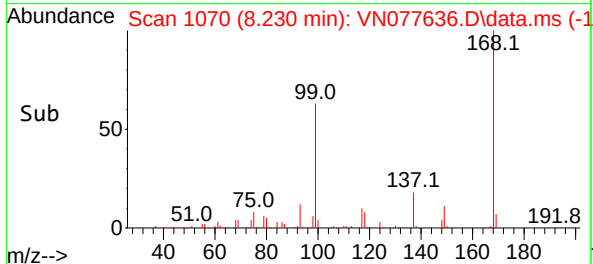
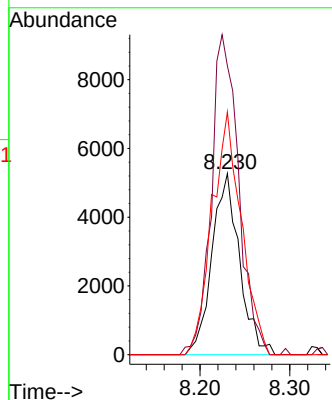
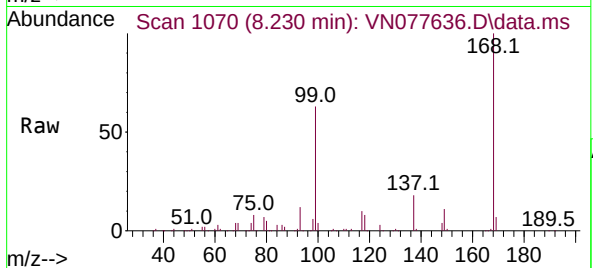




#31
Cyclohexane
Concen: 1.264 ug/l
RT: 8.230 min Scan# 1107
Delta R.T. -0.030 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

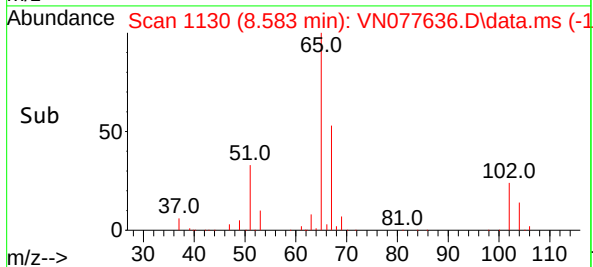
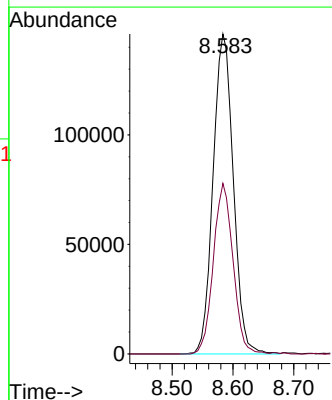
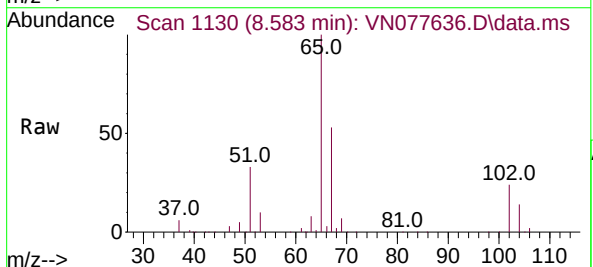
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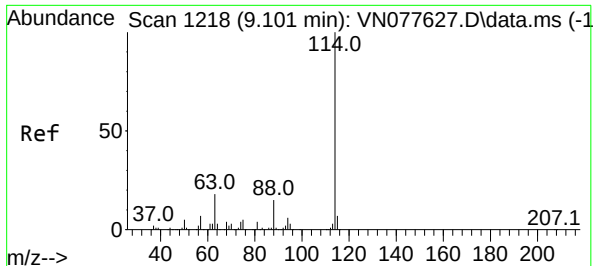
Tgt Ion: 56 Resp: 11211
Ion Ratio Lower Upper
56 100
69 159.4 26.8 40.2#
84 134.0 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 48.516 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. 0.005 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

Tgt Ion: 65 Resp: 336827
Ion Ratio Lower Upper
65 100
67 51.9 0.0 106.6

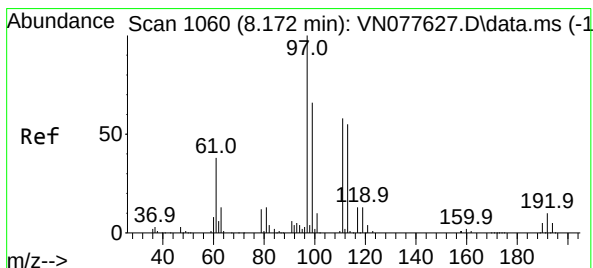
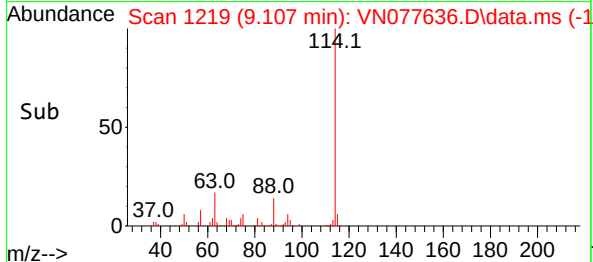
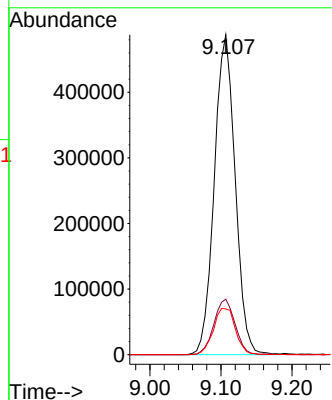
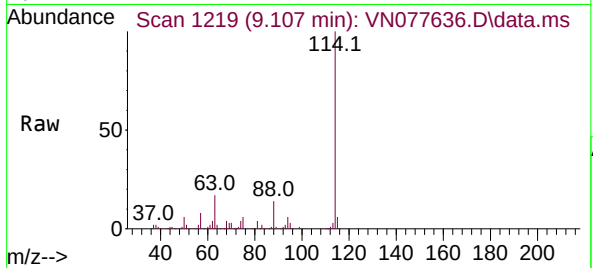




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

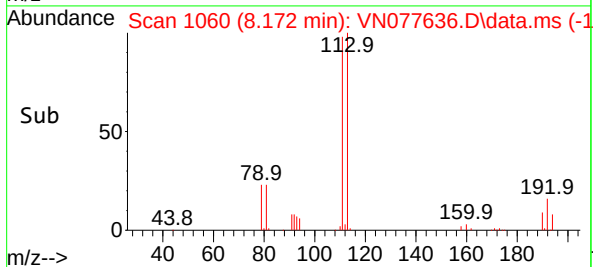
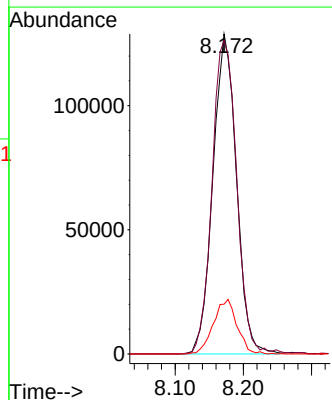
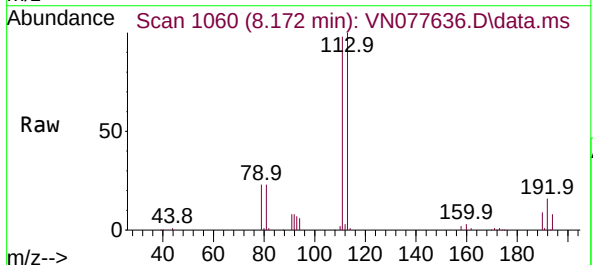
Instrument :
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ClientSampleId :
PB152652ZHE#02

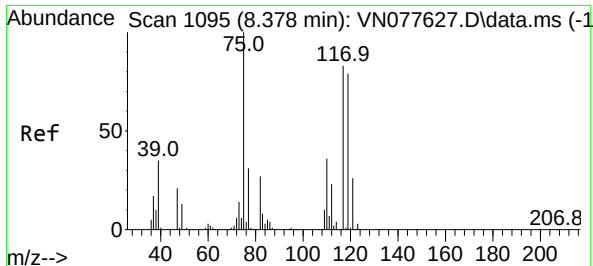
Tgt Ion:114 Resp: 993651
Ion Ratio Lower Upper
114 100
63 17.4 0.0 36.4
88 14.3 0.0 30.6



#35
Dibromofluoromethane
Concen: 49.987 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

Tgt Ion:113 Resp: 309778
Ion Ratio Lower Upper
113 100
111 102.2 82.6 123.8
192 17.1 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.151 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.148 min

Lab File: VN077636.D

Acq: 09 May 2023 16:55

Instrument :

MSVOA_N

ClientSampleId :

PB152652ZHE#02

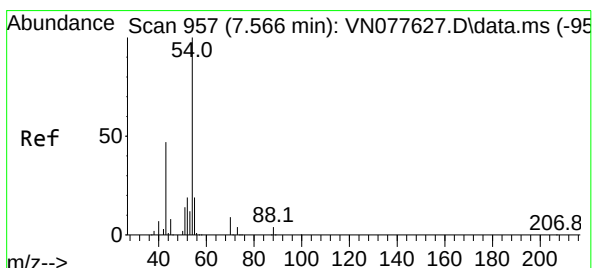
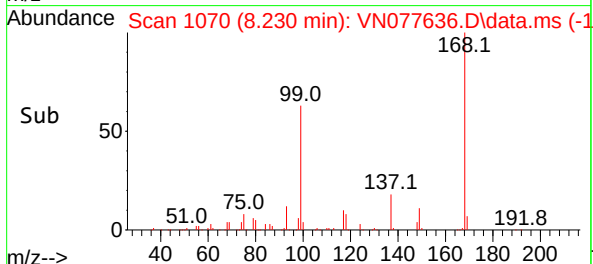
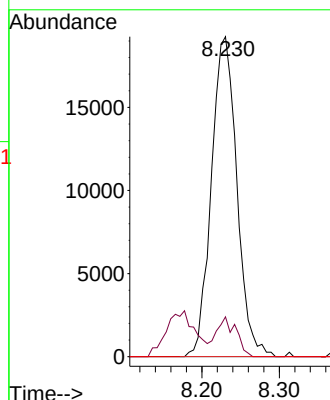
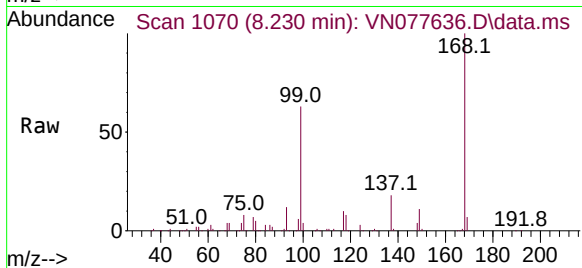
Tgt Ion: 75 Resp: 44049

Ion Ratio Lower Upper

75 100

110 9.7 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 13.056 ug/l

RT: 7.572 min Scan# 958

Delta R.T. 0.006 min

Lab File: VN077636.D

Acq: 09 May 2023 16:55

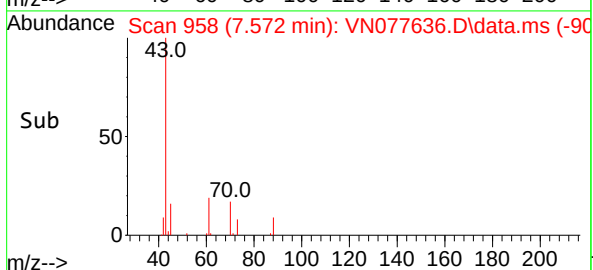
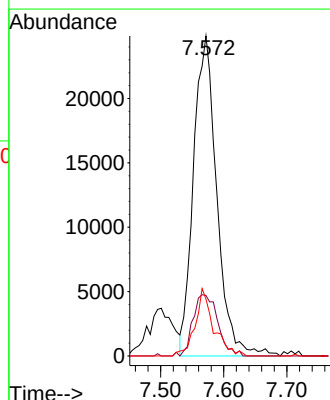
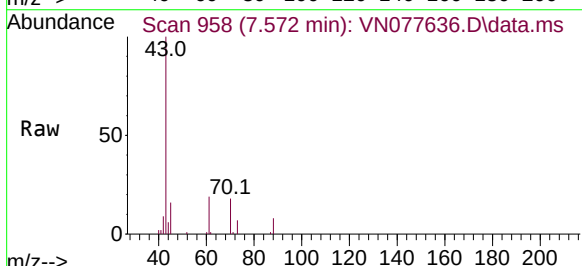
Tgt Ion: 43 Resp: 63844

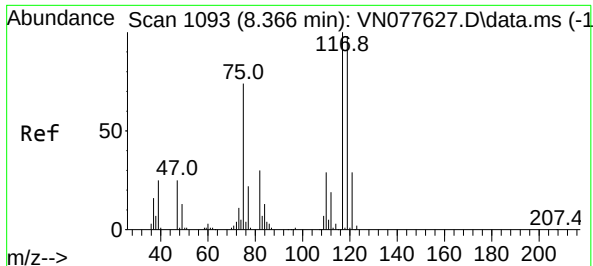
Ion Ratio Lower Upper

43 100

61 20.3 13.2 19.8#

70 16.6 11.3 16.9

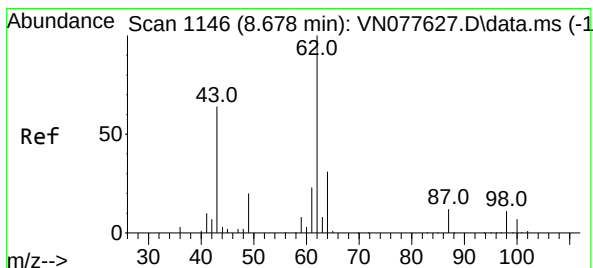
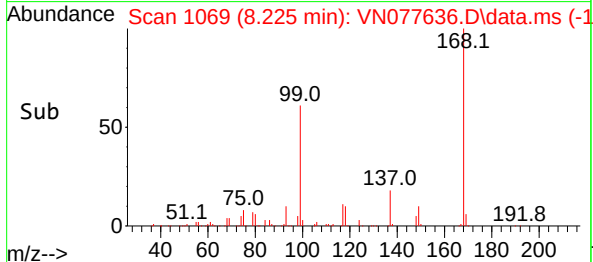
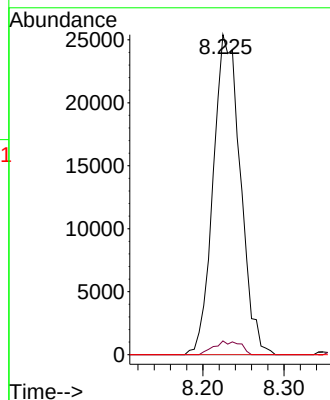
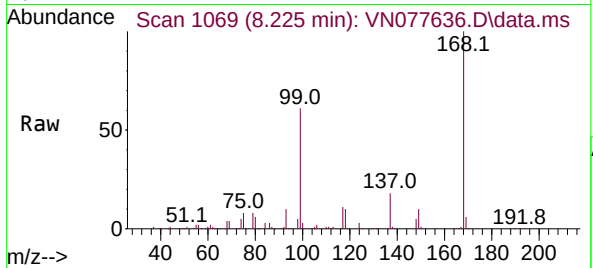




#38
Carbon Tetrachloride
Concen: 6.325 ug/l
RT: 8.225 min Scan# 1109
Delta R.T. -0.141 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

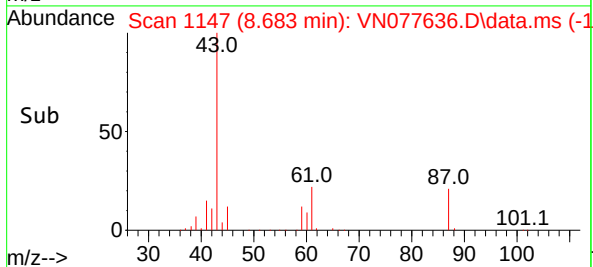
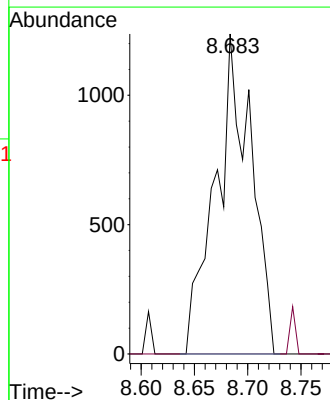
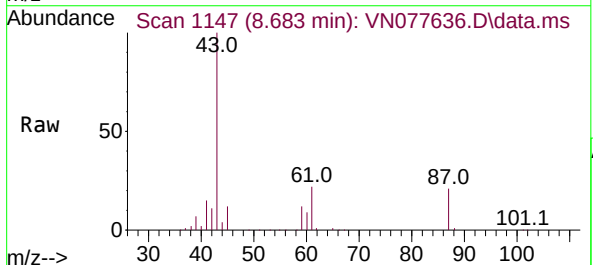
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#02

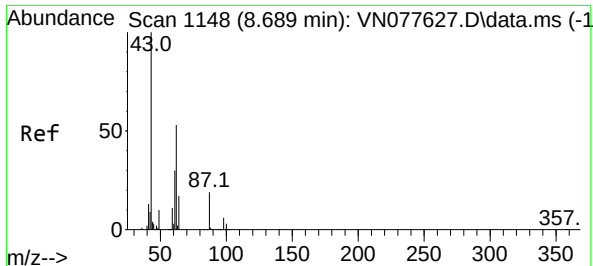
Tgt Ion:117 Resp: 59096
Ion Ratio Lower Upper
117 100
119 4.3 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.331 ug/l
RT: 8.683 min Scan# 1147
Delta R.T. 0.005 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

Tgt Ion: 62 Resp: 2876
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8





#43

Isopropyl Acetate

Concen: 42.027 ug/l

RT: 8.695 min Scan# 1148

Delta R.T. 0.006 min

Lab File: VN077636.D

Acq: 09 May 2023 16:55

Instrument :

MSVOA_N

ClientSampleId :

PB152652ZHE#02

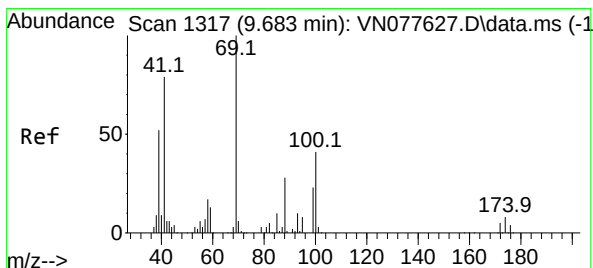
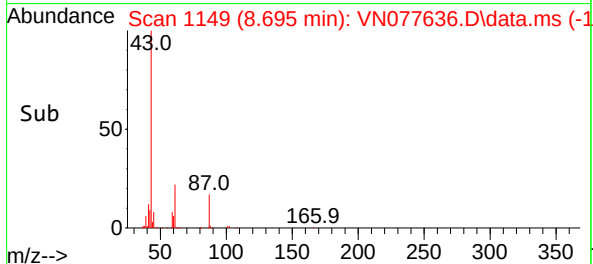
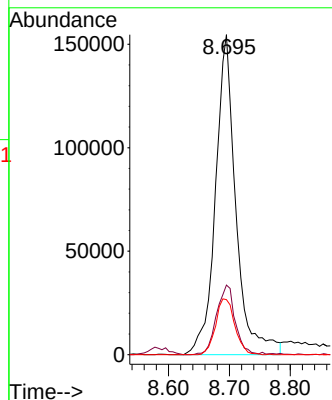
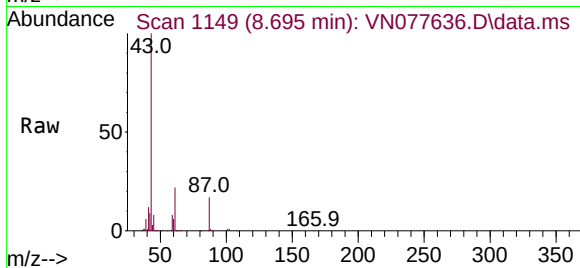
Tgt Ion: 43 Resp: 360339

Ion Ratio Lower Upper

43 100

61 19.7 24.7 37.1#

87 16.4 14.6 21.8



#48

Methyl methacrylate

Concen: 1.855 ug/l

RT: 9.672 min Scan# 1315

Delta R.T. -0.011 min

Lab File: VN077636.D

Acq: 09 May 2023 16:55

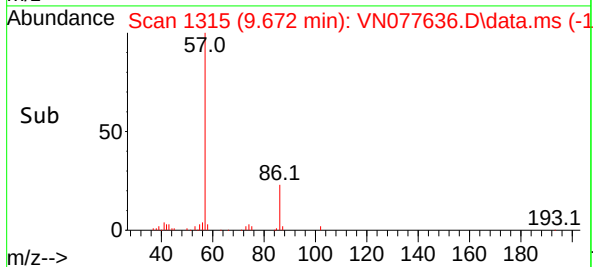
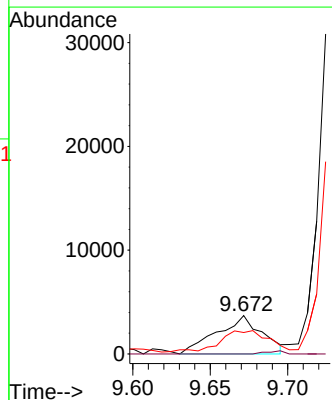
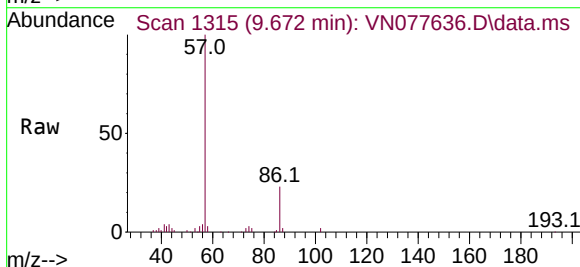
Tgt Ion: 41 Resp: 7466

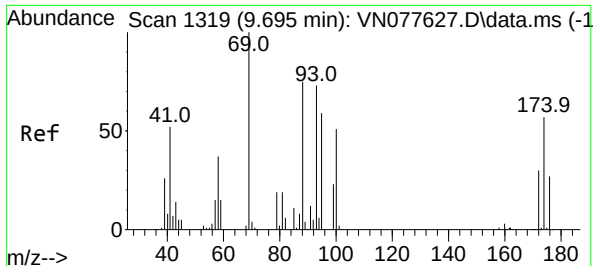
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 59.6 54.6 81.8





#49

1,4-Dioxane

Concen: 4.512 ug/l

RT: 9.748 min Scan# 11

Delta R.T. 0.053 min

Lab File: VN077636.D

Acq: 09 May 2023 16:55

Instrument :

MSVOA_N

ClientSampleId :

PB152652ZHE#02

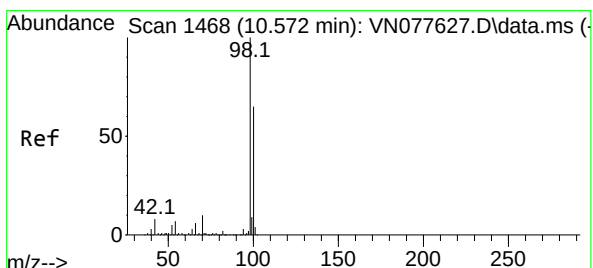
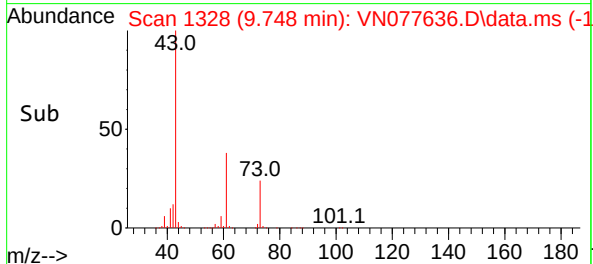
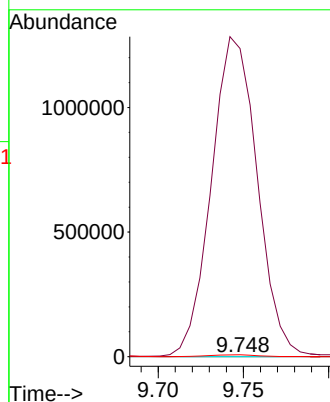
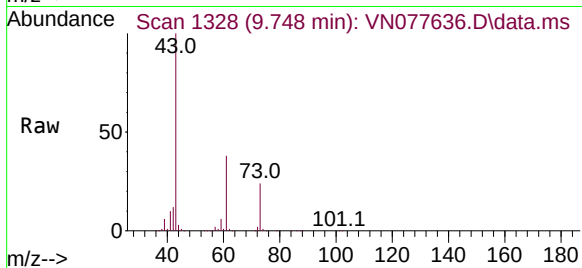
Tgt Ion: 88 Resp: 540

Ion Ratio Lower Upper

88 100

43 446455.4 17.0 25.6#

58 2706.7 47.0 70.4#



#50

Toluene-d8

Concen: 52.758 ug/l

RT: 10.566 min Scan# 1467

Delta R.T. -0.006 min

Lab File: VN077636.D

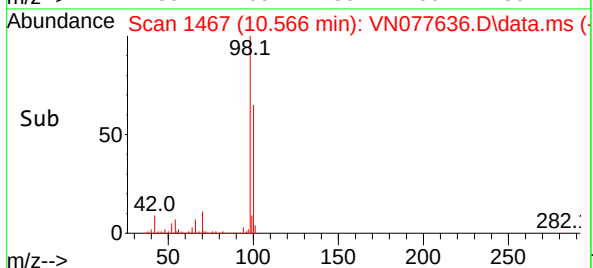
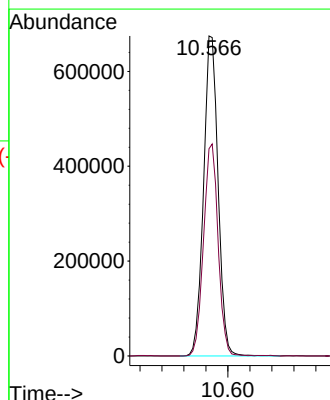
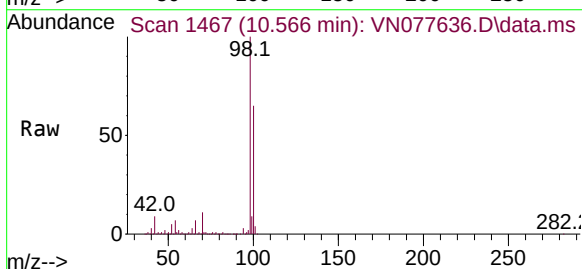
Acq: 09 May 2023 16:55

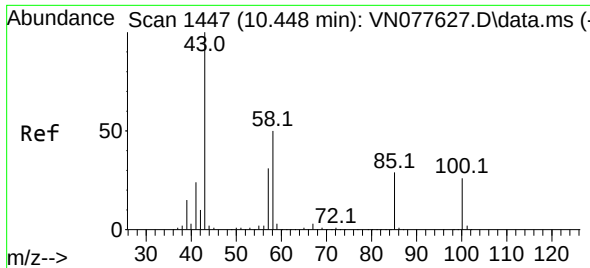
Tgt Ion: 98 Resp: 1237850

Ion Ratio Lower Upper

98 100

100 66.4 52.0 78.0

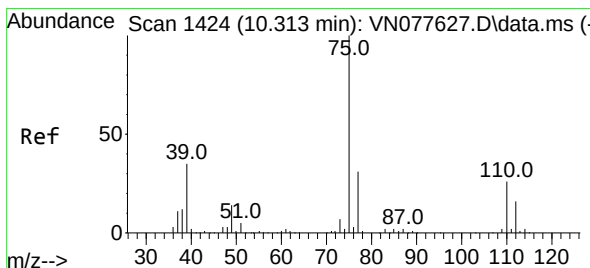
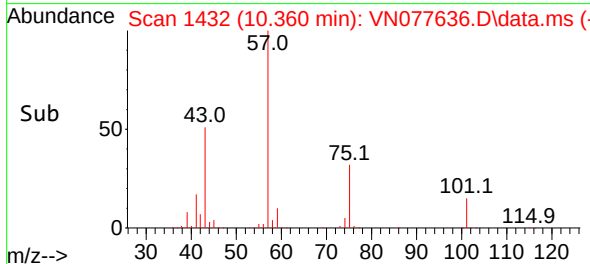
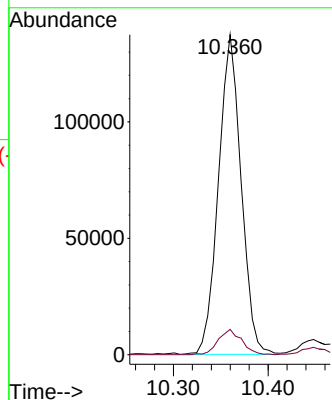
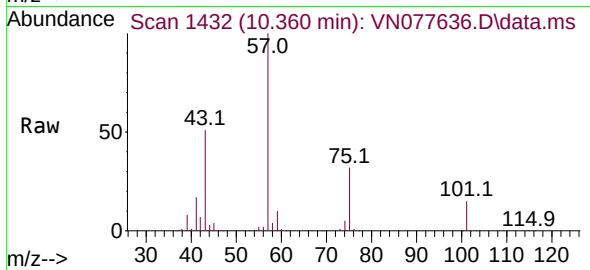




#51
4-Methyl-2-Pentanone
Concen: 45.279 ug/l
RT: 10.360 min Scan# 1447
Delta R.T. -0.088 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

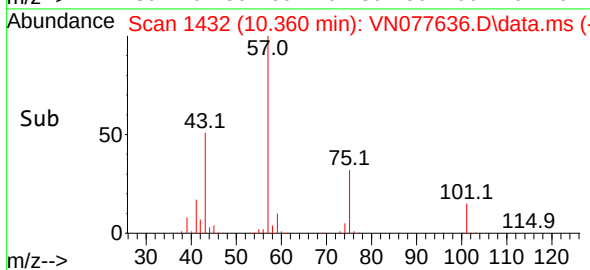
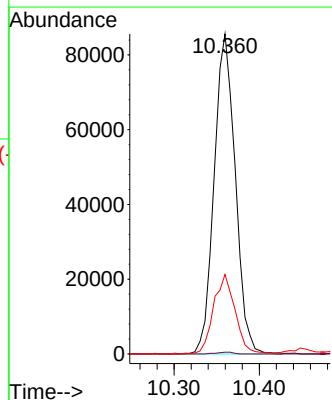
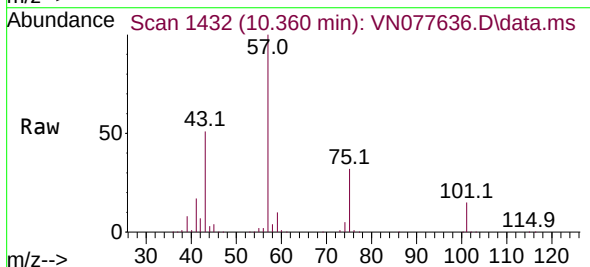
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#02

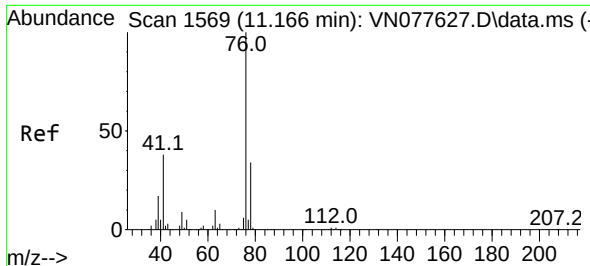
Tgt Ion: 43 Resp: 228394
Ion Ratio Lower Upper
43 100
58 8.2 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 14.713 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

Tgt Ion: 75 Resp: 147411
Ion Ratio Lower Upper
75 100
77 0.6 26.1 39.1#
39 24.9 31.6 47.4#





#57

1,3-Dichloropropane

Concen: 1.830 ug/l

RT: 11.201 min Scan# 1575

Delta R.T. 0.035 min

Lab File: VN077636.D

Acq: 09 May 2023 16:55

Instrument :

MSVOA_N

ClientSampleId :

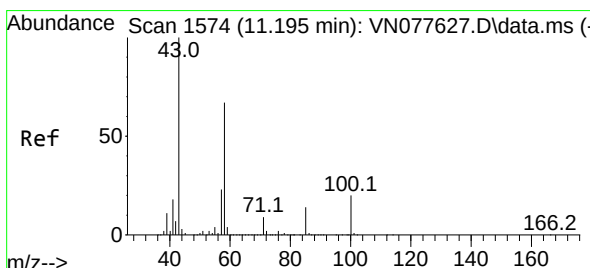
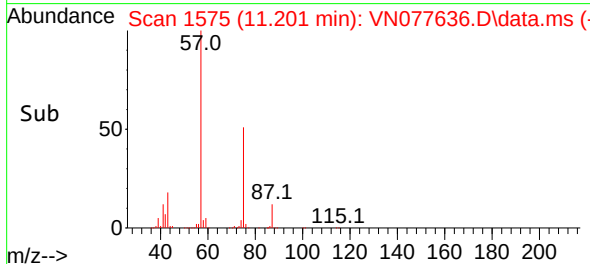
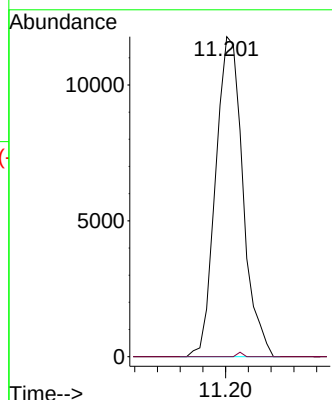
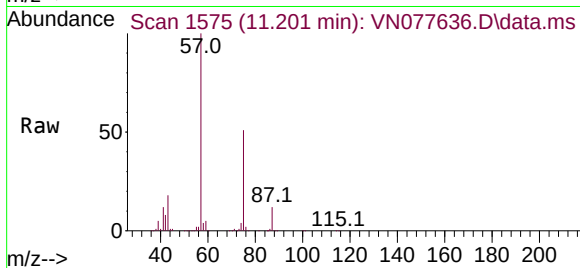
PB152652ZHE#02

Tgt Ion: 76 Resp: 19631

Ion Ratio Lower Upper

76 100

78 0.3 26.1 39.1#



#59

2-Hexanone

Concen: 70.211 ug/l

RT: 11.171 min Scan# 1570

Delta R.T. -0.024 min

Lab File: VN077636.D

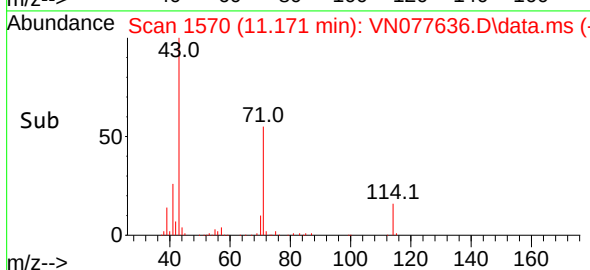
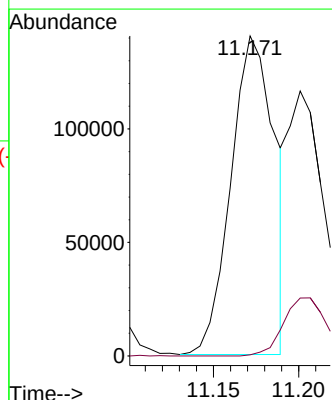
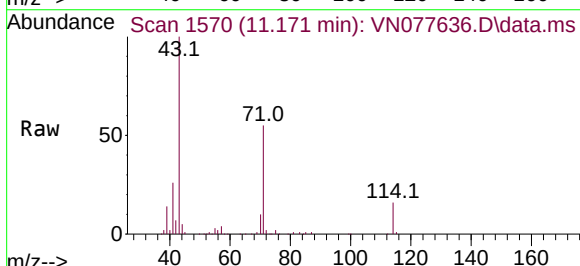
Acq: 09 May 2023 16:55

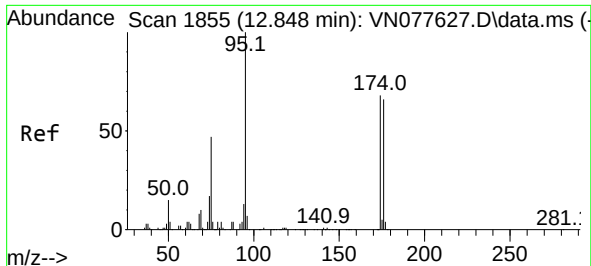
Tgt Ion: 43 Resp: 250300

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

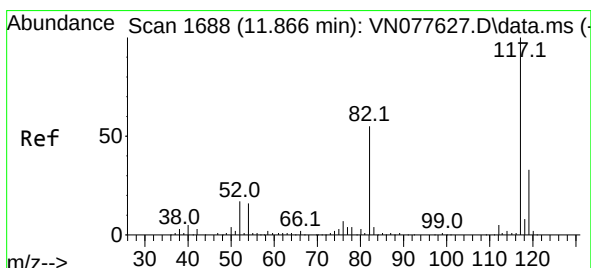
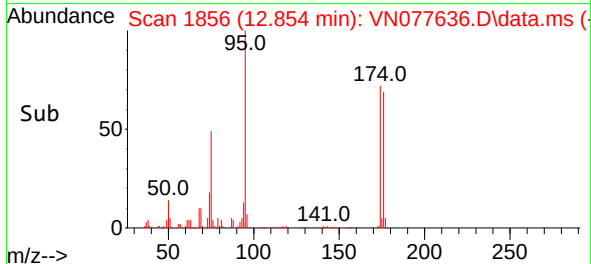
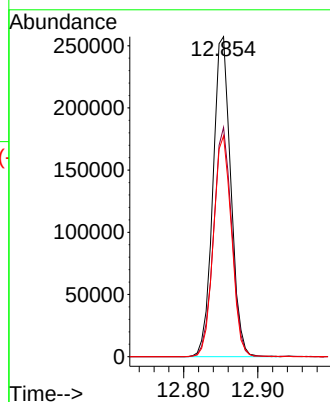
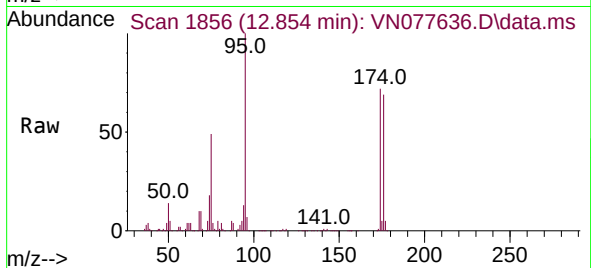




#62
4-Bromofluorobenzene
Concen: 54.238 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

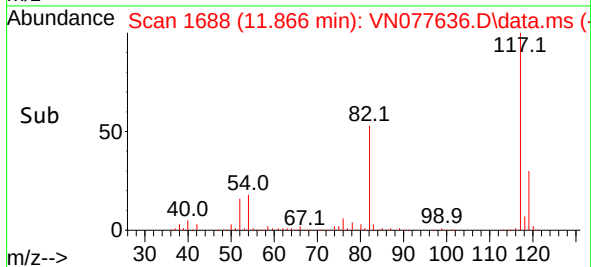
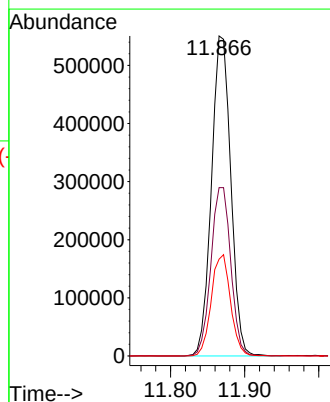
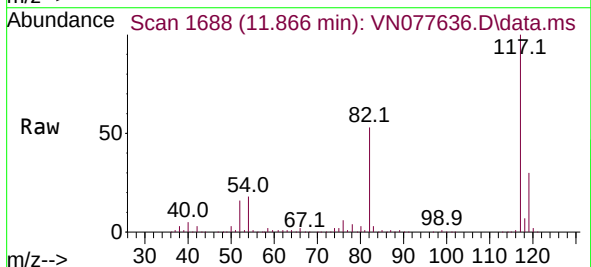
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#02

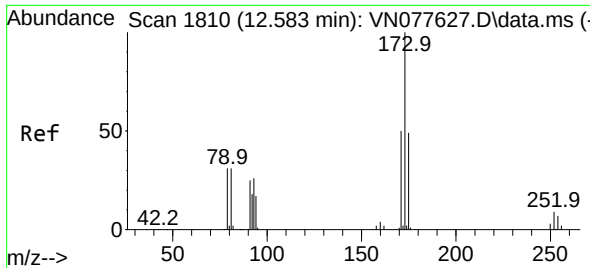
Tgt Ion: 95 Resp: 430411
Ion Ratio Lower Upper
95 100
174 72.8 0.0 143.8
176 69.7 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

Tgt Ion: 117 Resp: 997721
Ion Ratio Lower Upper
117 100
82 52.6 44.0 66.0
119 30.3 25.6 38.4

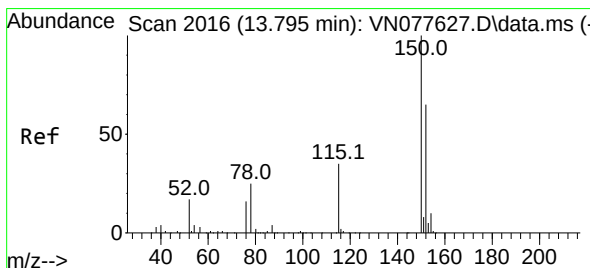
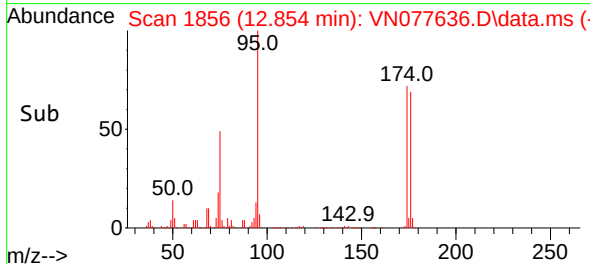
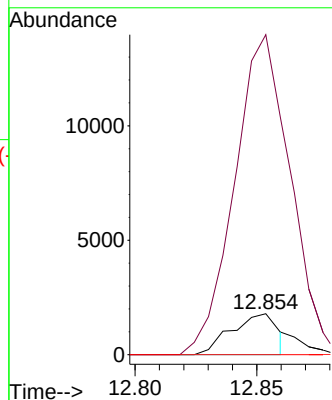
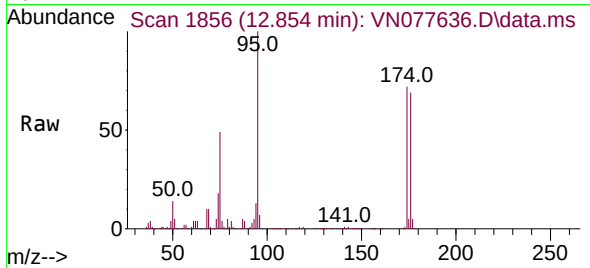




#71
Bromoform
Concen: 0.529 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.271 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

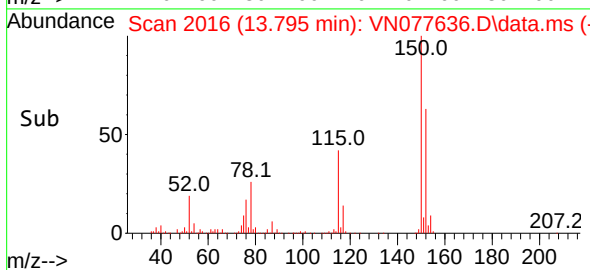
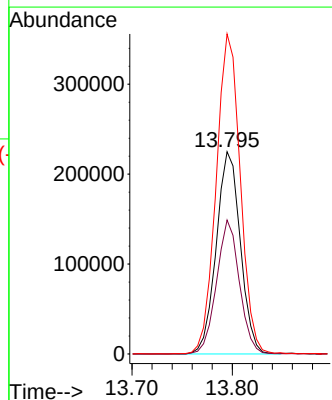
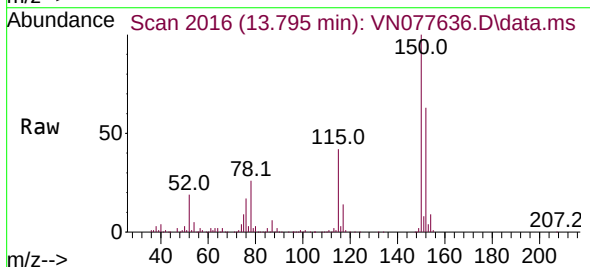
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#02

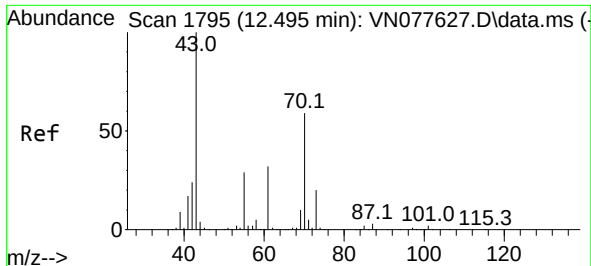
Tgt Ion:173 Resp: 2374
Ion Ratio Lower Upper
173 100
175 772.8 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

Tgt Ion:152 Resp: 374319
Ion Ratio Lower Upper
152 100
115 63.0 32.3 96.8
150 158.9 0.0 355.8

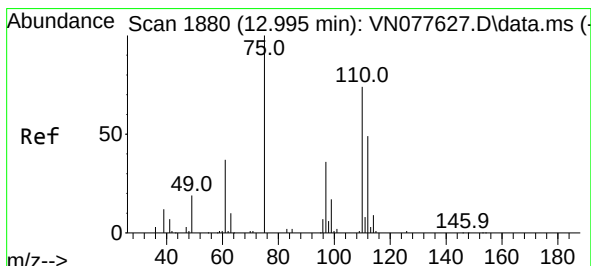
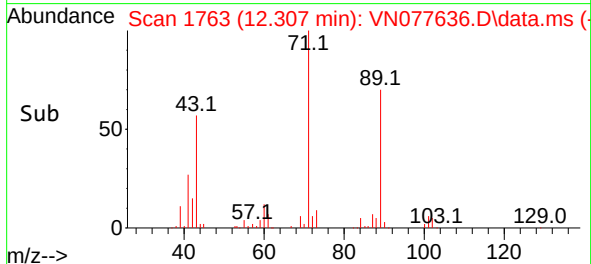
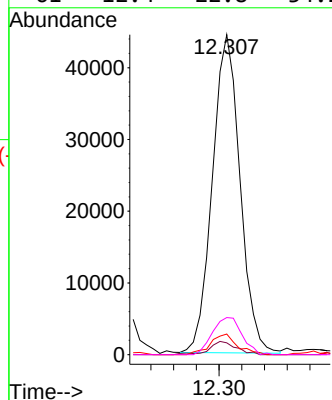
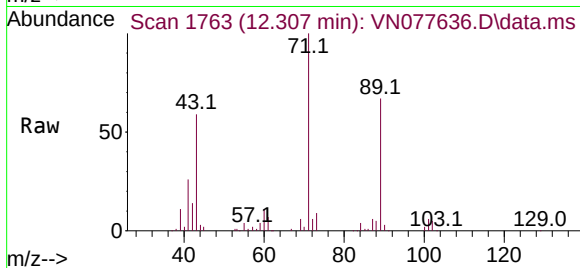




#74
N-amy1 acetate
Concen: 10.173 ug/l
RT: 12.307 min Scan# 11
Delta R.T. -0.188 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

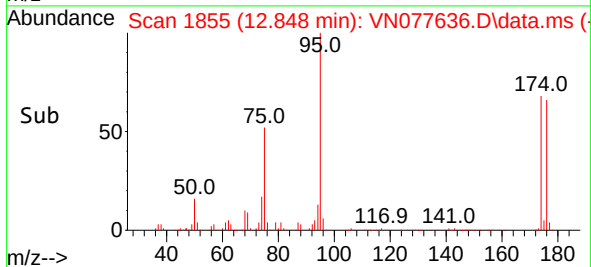
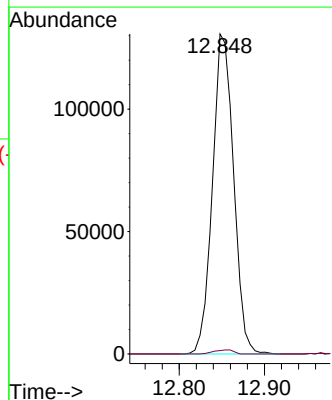
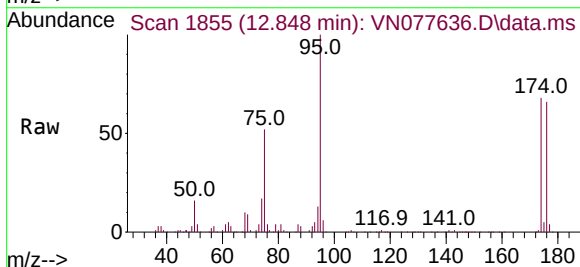
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#02

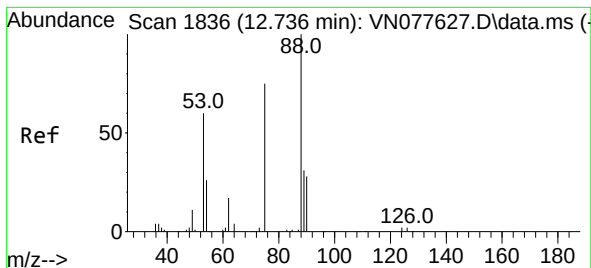
Tgt Ion: 43	Resp: 74966
Ion Ratio	Lower Upper
43 100	
70 4.0	43.4 65.2#
55 6.3	21.4 32.0#
61 12.4	22.8 34.2#



#76
1,2,3-Trichloropropane
Concen: 29.102 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. -0.147 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

Tgt Ion: 75	Resp: 224805
Ion Ratio	Lower Upper
75 100	
77 1.2	84.5 253.5#

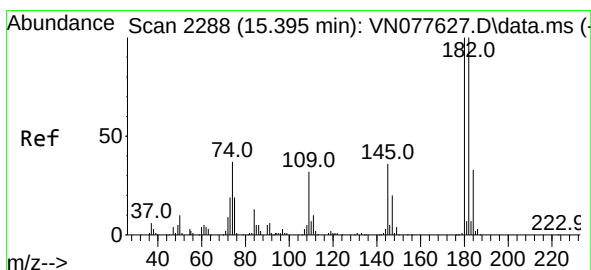
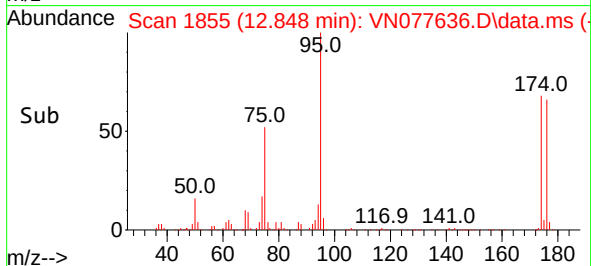
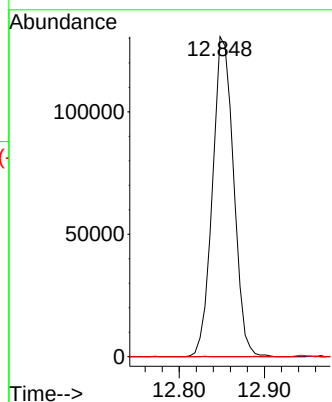
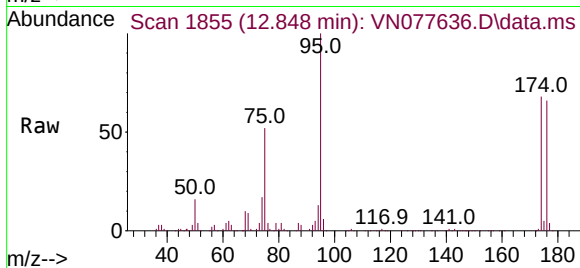




#81
trans-1,4-Dichloro-2-butene
Concen: 92.665 ug/l
RT: 12.848 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

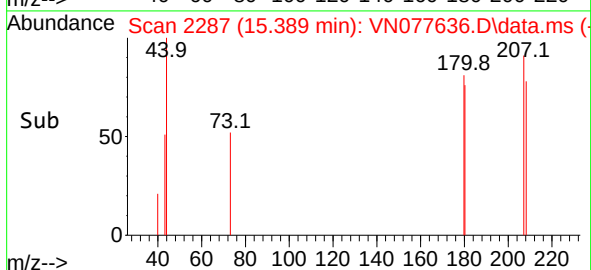
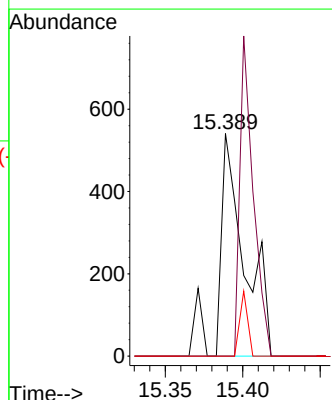
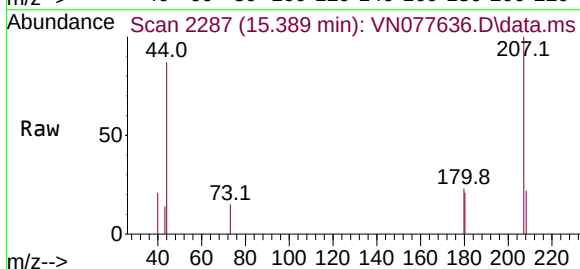
Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#02

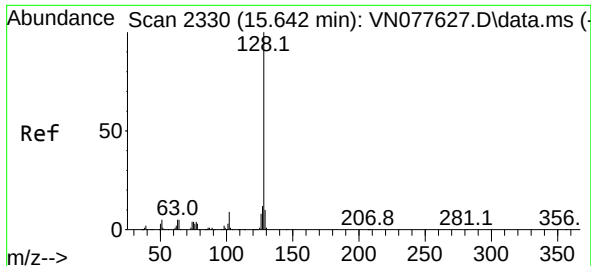
Tgt Ion: 75 Resp: 224805
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#93
1,2,4-Trichlorobenzene
Concen: 4.682 ug/l
RT: 15.389 min Scan# 2287
Delta R.T. -0.006 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

Tgt Ion:180 Resp: 604
Ion Ratio Lower Upper
180 100
182 77.8 46.1 138.2
145 9.3 16.6 49.8#

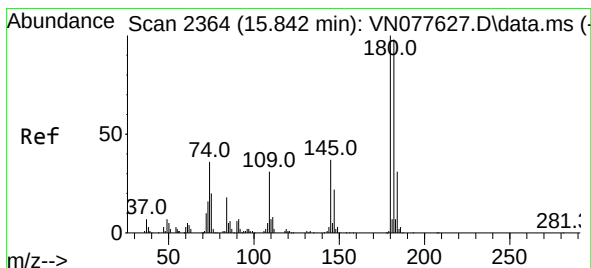
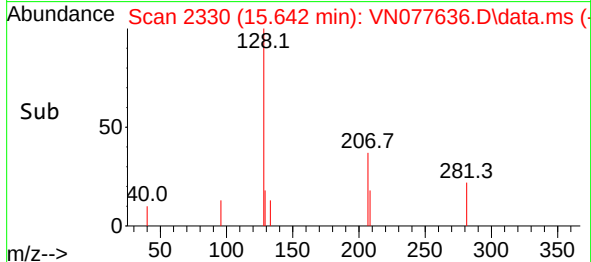
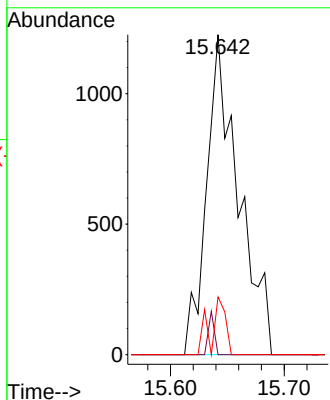
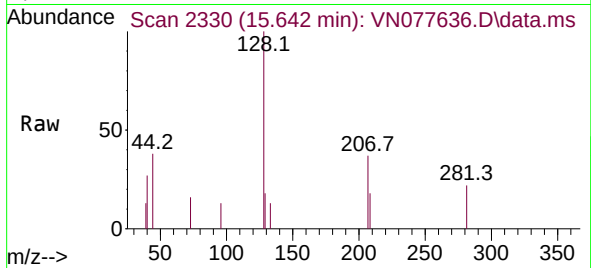




#95
Naphthalene
Concen: 4.853 ug/l
RT: 15.642 min Scan# 2330
Delta R.T. -0.000 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

Instrument :
MSVOA_N
ClientSampleId :
PB152652ZHE#02

Tgt Ion:128 Resp: 2392
Ion Ratio Lower Upper
128 100
127 2.5 10.0 15.0#
129 8.2 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 4.579 ug/l
RT: 15.842 min Scan# 2364
Delta R.T. -0.000 min
Lab File: VN077636.D
Acq: 09 May 2023 16:55

Tgt Ion:180 Resp: 444
Ion Ratio Lower Upper
180 100
182 132.9 46.2 138.6
145 0.0 17.5 52.6#

