

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052323\
 Data File : VX035812.D
 Acq On : 23 May 2023 13:58
 Operator : JC/MD
 Sample : VX0523WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0523WBL01

Quant Time: May 24 05:48:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:36:37 2023
 Response via : Initial Calibration

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

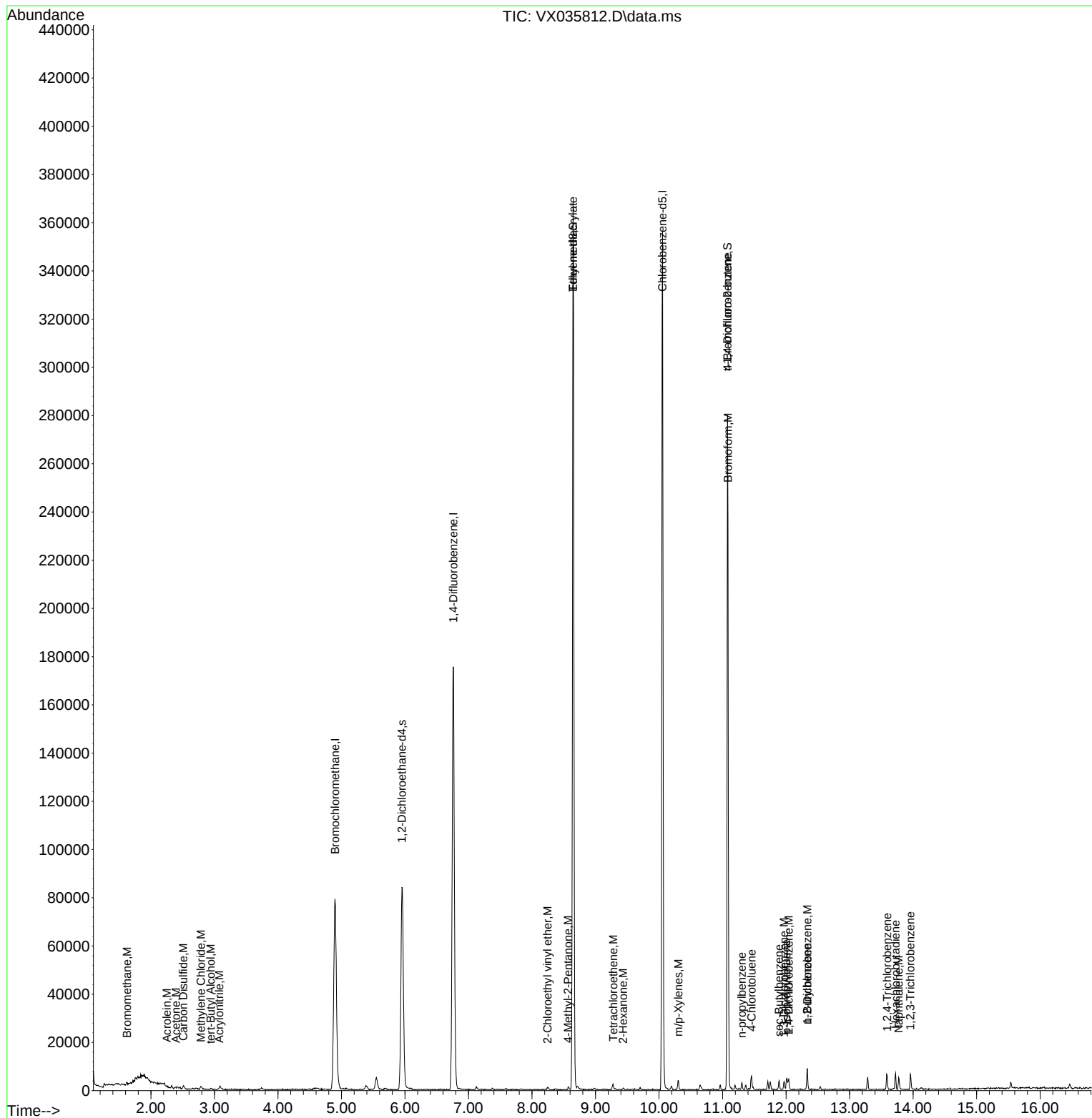
Internal Standards						
1) Bromochloromethane	4.897	128	32153	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	176822	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	155676	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	80554	30.152	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.500%	
60) 4-Bromofluorobenzene	11.079	95	71847	27.504	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 91.667%	
63) Toluene-d8	8.647	98	209461	30.435	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.467%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.624	94	305	0.239	ug/l	81
13) Acrolein	2.251	56	239	0.664	ug/l	90
14) Acrylonitrile	3.074	53	561	0.491	ug/l #	52
15) Acetone	2.392	58	108	0.316	ug/l	78
16) Carbon Disulfide	2.508	76	1703	0.487	ug/l #	92
18) Methylene Chloride	2.788	84	706	0.336	ug/l #	75
23) tert-Butyl Alcohol	2.940	59	109	0.262	ug/l #	1
51) Ethyl methacrylate	8.647	69	784	0.251	ug/l	92
55) 2-Chloroethyl vinyl ether	8.244	63	529	0.320	ug/l #	78
56) Bromoform	11.085	173	584	0.486	ug/l #	1
58) 4-Methyl-2-Pentanone	8.567	43	729	0.241	ug/l #	61
59) 2-Hexanone	9.433	43	626	0.275	ug/l #	80
61) Tetrachloroethene	9.281	164	318	0.212	ug/l #	67
67) m/p-Xylenes	10.305	106	1064	0.314	ug/l	74
74) n-propylbenzene	11.305	91	2138	0.207	ug/l	95
77) t-1,4-Dichloro-2-butene	11.079	75	37072	45.976	ug/l #	4
78) 4-Chlorotoluene	11.457	91	1717	0.238	ug/l	97
81) sec-Butylbenzene	11.890	105	1960	0.219	ug/l	99
82) p-Isopropyltoluene	12.006	119	1917	0.257	ug/l	94
83) 1,3-Dichlorobenzene	11.969	146	1294	0.325	ug/l	95
84) 1,4-Dichlorobenzene	12.042	146	1403	0.351	ug/l	97
85) n-Butylbenzene	12.335	91	2530	0.381	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	1028	0.263	ug/l	99
89) 1,2,4-Trichlorobenzene	13.591	180	1689	0.722	ug/l	97
90) Hexachlorobutadiene	13.725	225	867	1.005	ug/l	96
91) Naphthalene	13.774	128	3113	0.385	ug/l #	91
92) 1,2,3-Trichlorobenzene	13.957	180	1500	0.642	ug/l	95

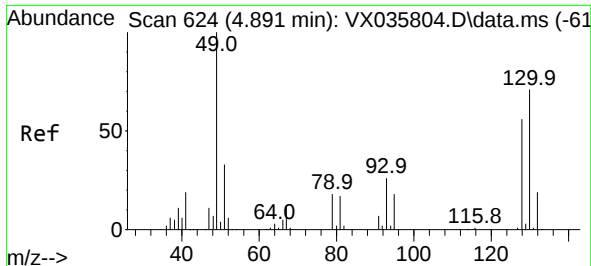
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :
VX0523WBL01

Quant Time: May 24 05:48:27 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue May 23 11:36:37 2023
Response via : Initial Calibration

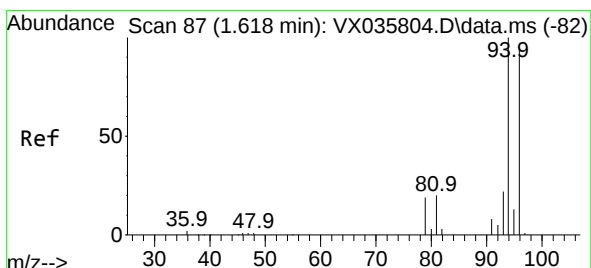
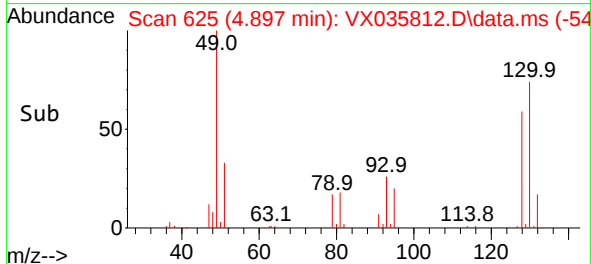
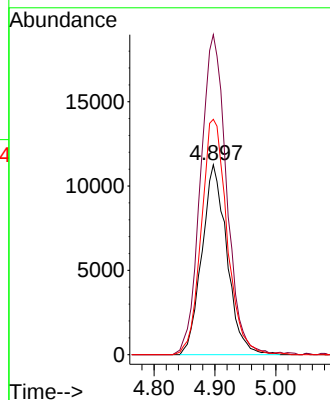
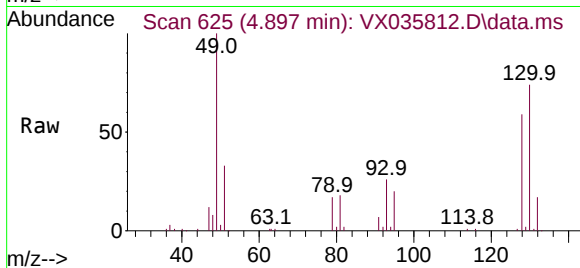




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX035812.D
Acq: 23 May 2023 13:58

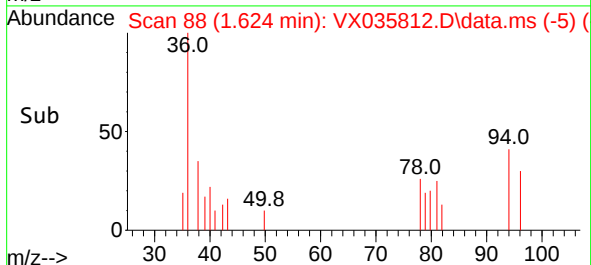
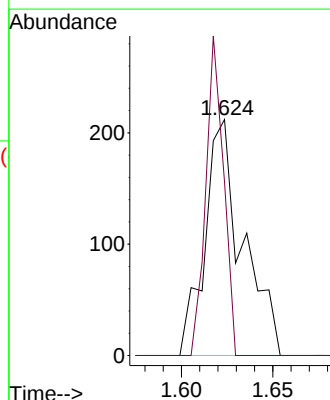
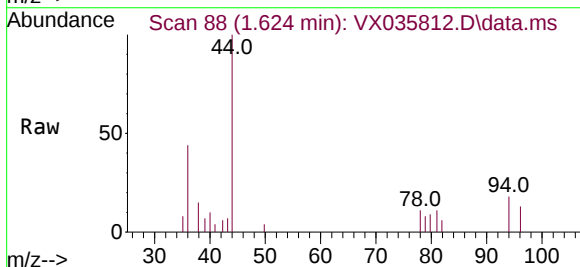
Instrument :
MSVOA_X
ClientSampleId :
VX0523WBL01

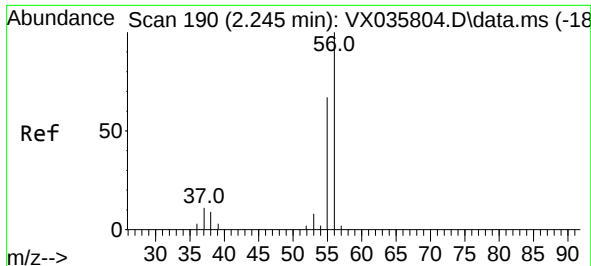
Tgt Ion:128 Resp: 32153
Ion Ratio Lower Upper
128 100
49 174.9 0.0 428.8
130 127.6 0.0 310.8



#5
Bromomethane
Concen: 0.239 ug/l
RT: 1.624 min Scan# 88
Delta R.T. 0.006 min
Lab File: VX035812.D
Acq: 23 May 2023 13:58

Tgt Ion: 94 Resp: 305
Ion Ratio Lower Upper
94 100
96 73.6 73.4 110.0





#13

Acrolein

Concen: 0.664 ug/l

RT: 2.251 min Scan# 191

Delta R.T. 0.006 min

Lab File: VX035812.D

Acq: 23 May 2023 13:58

Instrument :

MSVOA_X

ClientSampleId :

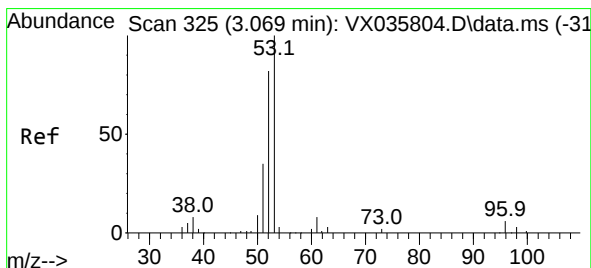
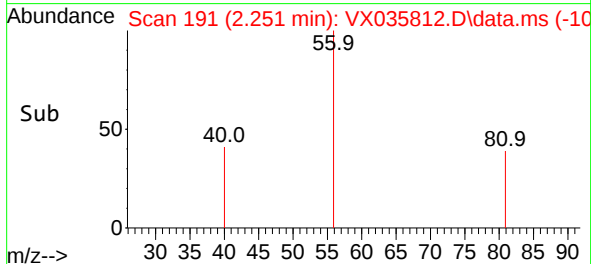
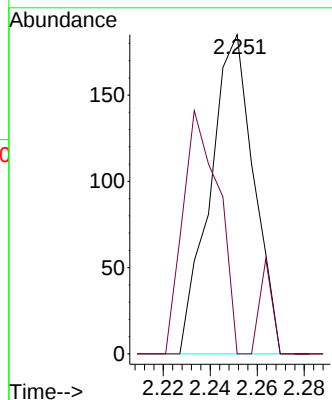
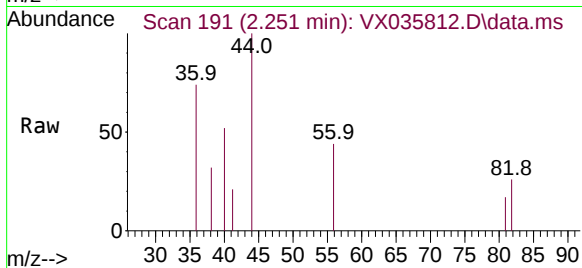
VX0523WBL01

Tgt Ion: 56 Resp: 239

Ion Ratio Lower Upper

56 100

55 62.8 56.6 85.0



#14

Acrylonitrile

Concen: 0.491 ug/l

RT: 3.074 min Scan# 326

Delta R.T. 0.006 min

Lab File: VX035812.D

Acq: 23 May 2023 13:58

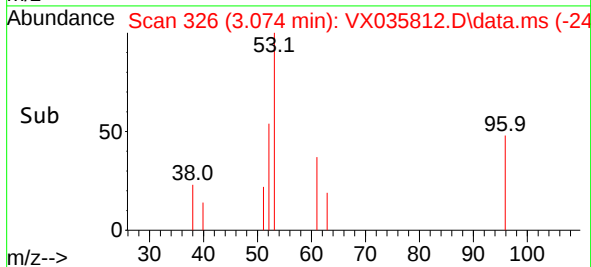
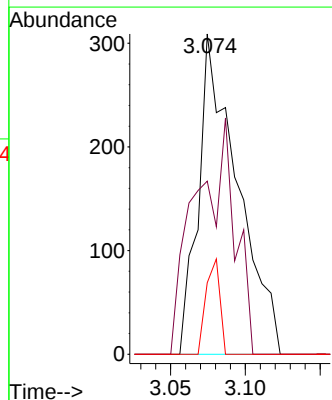
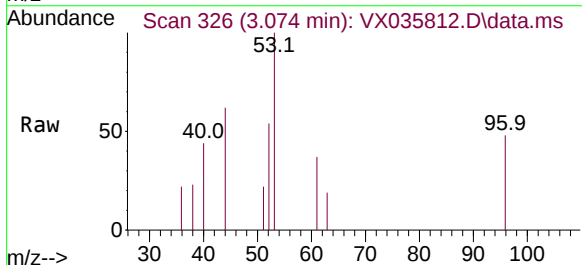
Tgt Ion: 53 Resp: 561

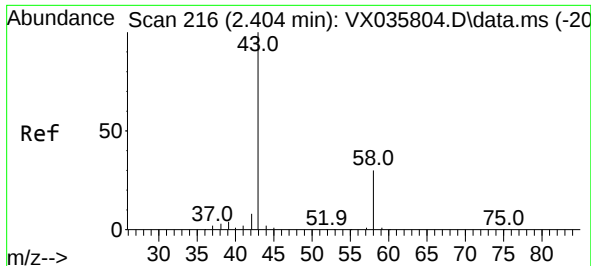
Ion Ratio Lower Upper

53 100

52 44.9 41.3 123.7

51 0.0 17.9 53.7#





#15

Acetone

Concen: 0.316 ug/l

RT: 2.392 min Scan# 21

Delta R.T. -0.012 min

Lab File: VX035812.D

Acq: 23 May 2023 13:58

Instrument :

MSVOA_X

ClientSampleId :

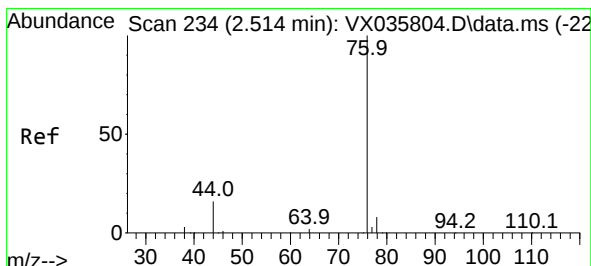
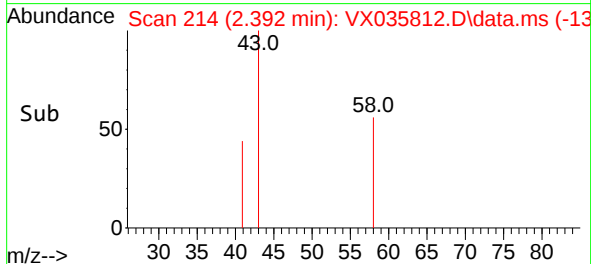
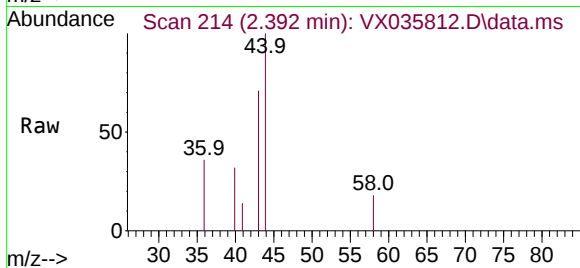
VX0523WBL01

Tgt Ion: 58 Resp: 108

Ion Ratio Lower Upper

58 100

43 385.3 270.8 406.2



#16

Carbon Disulfide

Concen: 0.487 ug/l

RT: 2.508 min Scan# 233

Delta R.T. -0.006 min

Lab File: VX035812.D

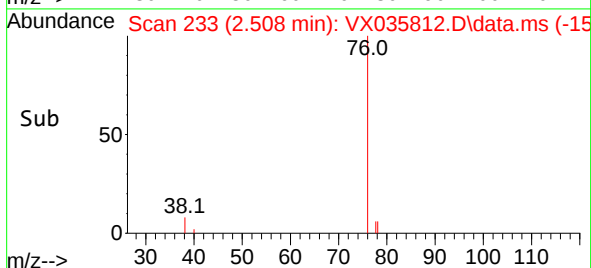
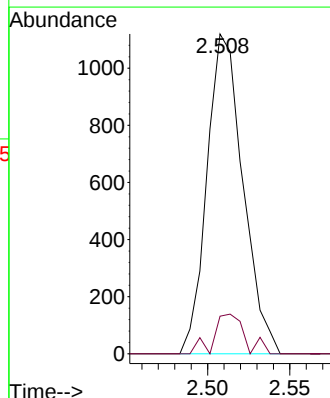
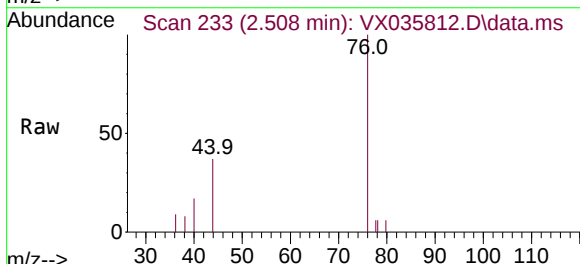
Acq: 23 May 2023 13:58

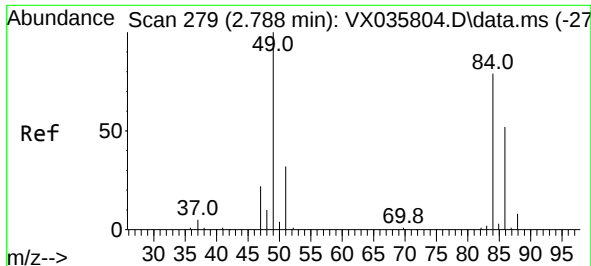
Tgt Ion: 76 Resp: 1703

Ion Ratio Lower Upper

76 100

78 11.8 7.0 10.6#

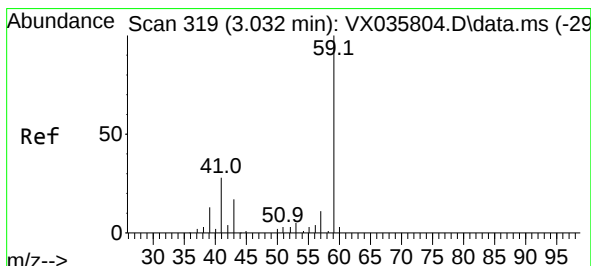
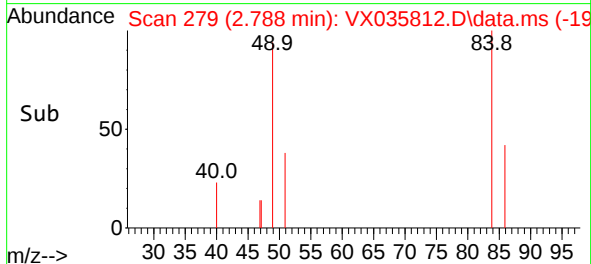
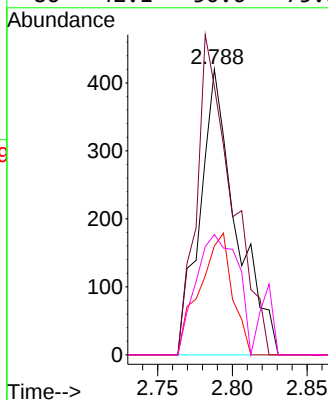
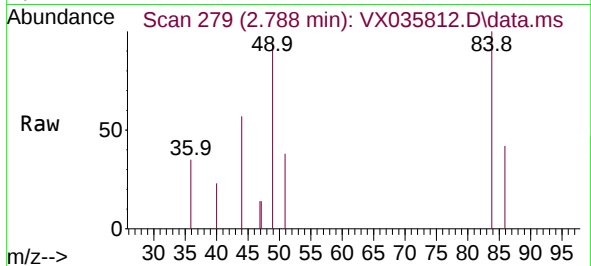




#18
Methylene Chloride
Concen: 0.336 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX035812.D
Acq: 23 May 2023 13:58

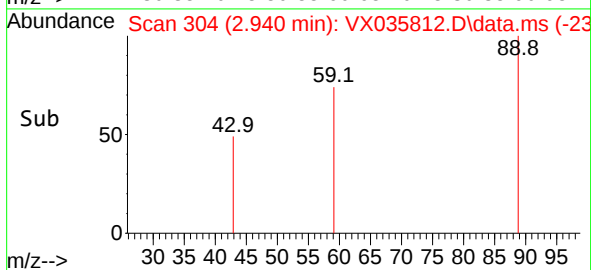
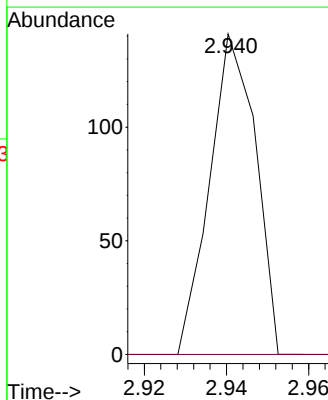
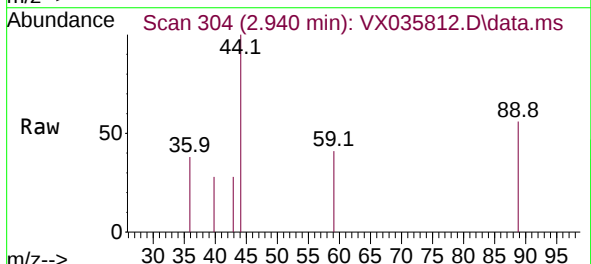
Instrument :
MSVOA_X
ClientSampleId :
VX0523WBL01

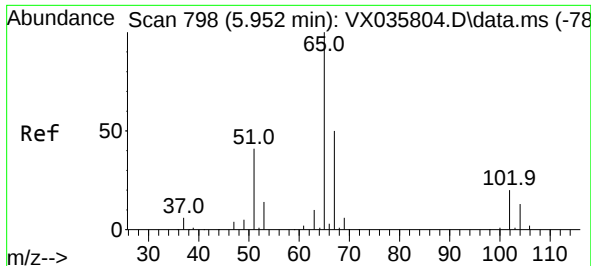
Tgt Ion: 84	Resp: 706
Ion Ratio	Lower Upper
84 100	
49 94.0	103.9 155.9#
51 38.1	30.6 45.8
86 42.1	50.6 75.8#



#23
tert-Butyl Alcohol
Concen: 0.262 ug/l
RT: 2.940 min Scan# 304
Delta R.T. -0.092 min
Lab File: VX035812.D
Acq: 23 May 2023 13:58

Tgt Ion: 59	Resp: 109		
Ion Ratio	Lower	Upper	
59 100			
52 231.2	0.2	0.4#	





#27

1,2-Dichloroethane-d4

Concen: 30.152 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX035812.D

Acq: 23 May 2023 13:58

Instrument :

MSVOA_X

ClientSampleId :

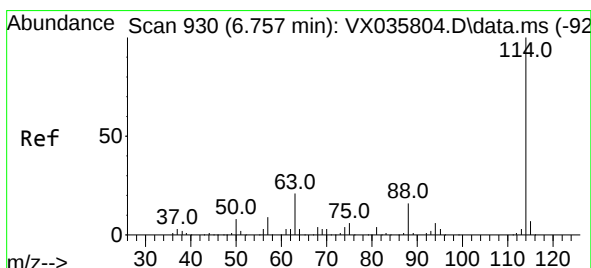
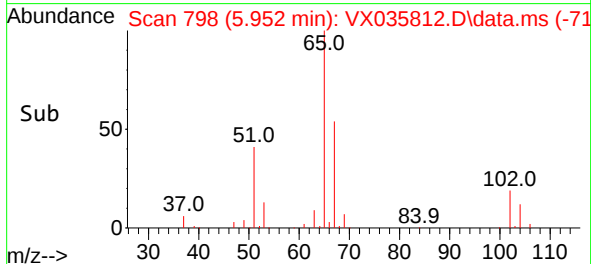
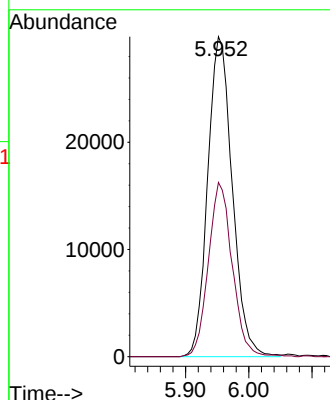
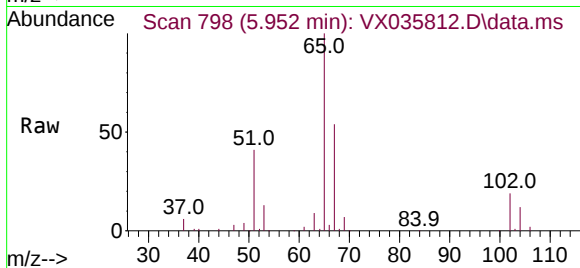
VX0523WBL01

Tgt Ion: 65 Resp: 80554

Ion Ratio Lower Upper

65 100

67 52.6 40.9 61.3



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.006 min

Lab File: VX035812.D

Acq: 23 May 2023 13:58

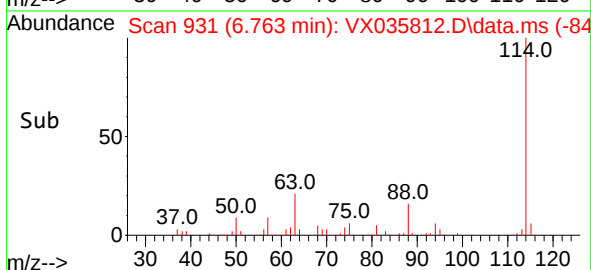
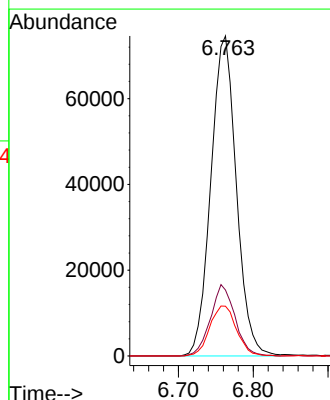
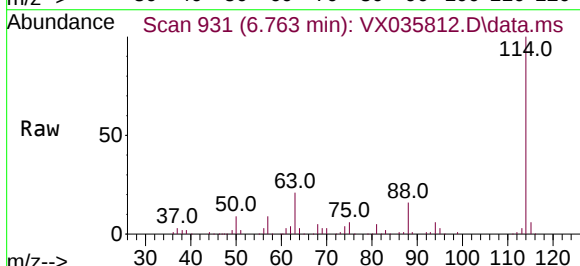
Tgt Ion: 114 Resp: 176822

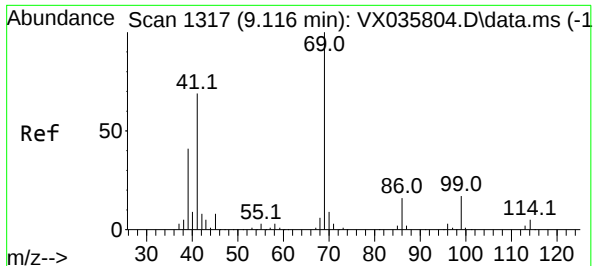
Ion Ratio Lower Upper

114 100

63 21.5 18.0 27.0

88 16.3 13.3 19.9

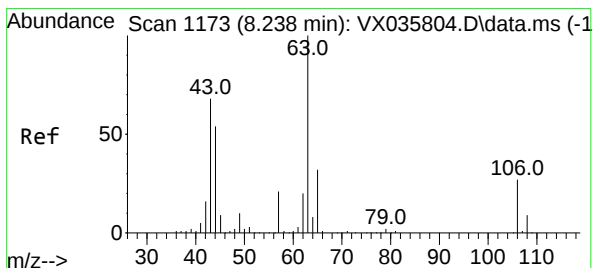
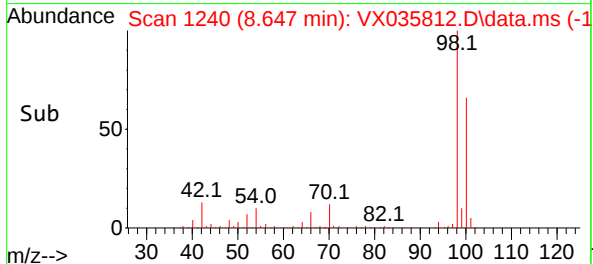
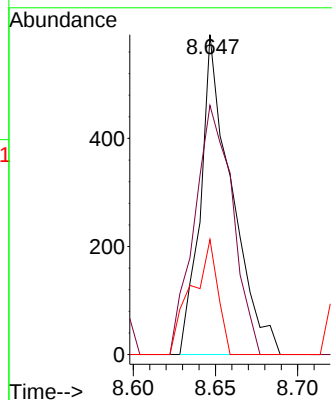
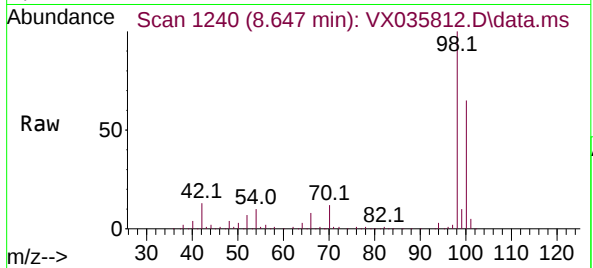




#51
Ethyl methacrylate
Concen: 0.251 ug/l
RT: 8.647 min Scan# 1174
Delta R.T. -0.470 min
Lab File: VX035812.D
Acq: 23 May 2023 13:58

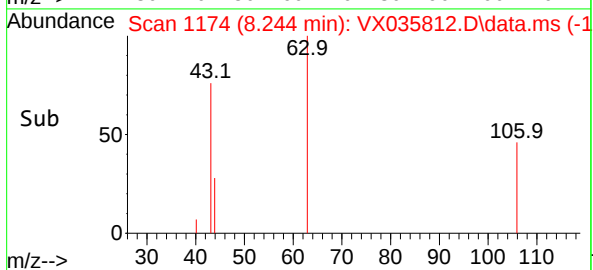
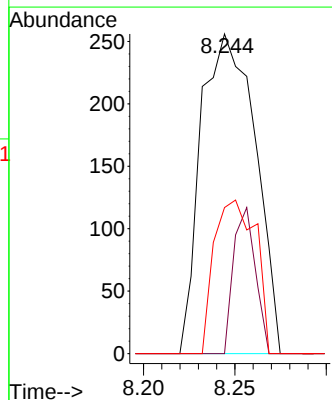
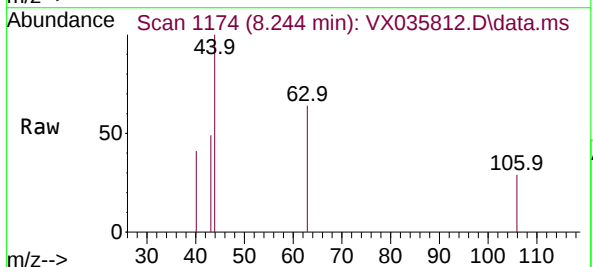
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VX0523WBL01

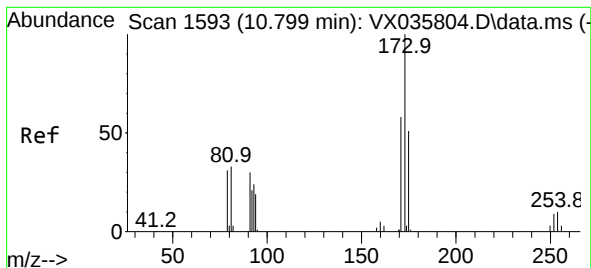
Tgt Ion: 69 Resp: 784
Ion Ratio Lower Upper
69 100
41 77.9 36.2 108.6
39 36.0 21.2 63.6



#55
2-Chloroethyl vinyl ether
Concen: 0.320 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX035812.D
Acq: 23 May 2023 13:58

Tgt Ion: 63 Resp: 529
Ion Ratio Lower Upper
63 100
65 18.3 25.4 38.2#
106 36.9 21.6 32.4#





#56

Bromoform

Concen: 0.486 ug/l

RT: 11.085 min Scan# 1

Delta R.T. 0.286 min

Lab File: VX035812.D

Acq: 23 May 2023 13:58

Instrument :

MSVOA_X

ClientSampleId :

VX0523WBL01

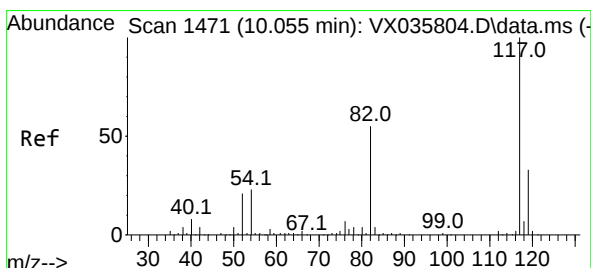
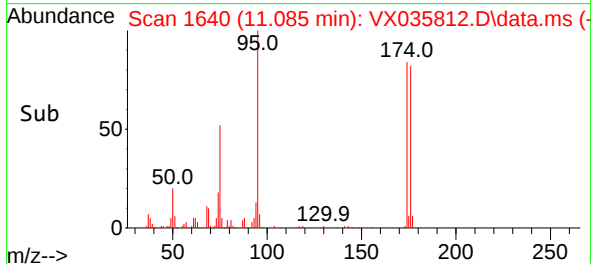
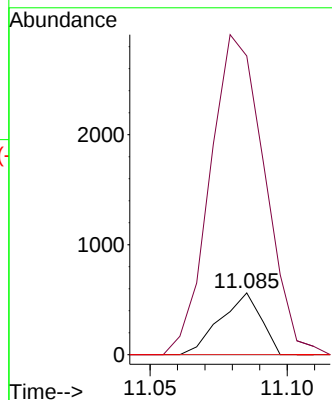
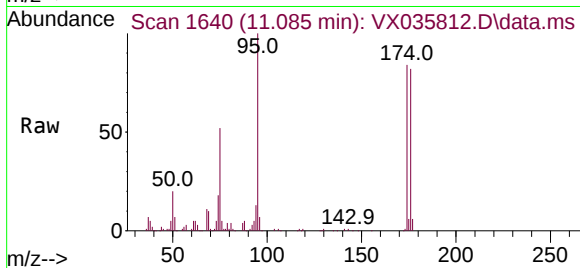
Tgt Ion:173 Resp: 584

Ion Ratio Lower Upper

173 100

175 691.1 37.0 55.4#

254 0.0 6.7 10.1#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX035812.D

Acq: 23 May 2023 13:58

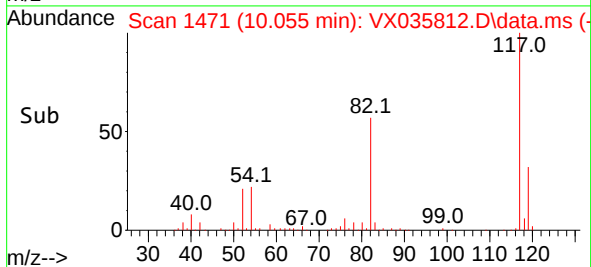
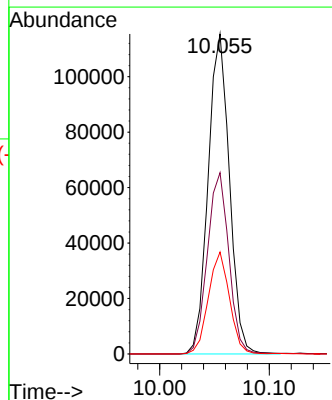
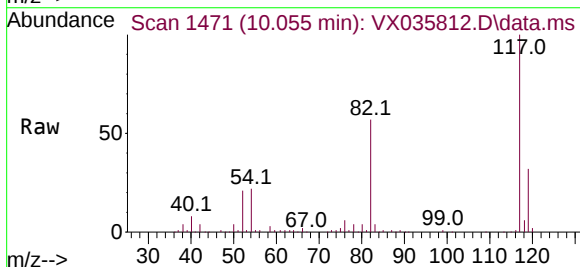
Tgt Ion:117 Resp: 155676

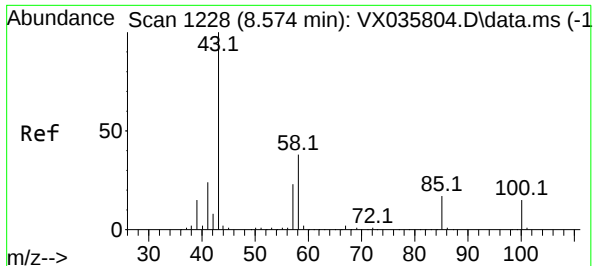
Ion Ratio Lower Upper

117 100

82 57.1 45.8 68.8

119 31.6 25.4 38.0





#58

4-Methyl-2-Pentanone

Concen: 0.241 ug/l

RT: 8.567 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX035812.D

Acq: 23 May 2023 13:58

Instrument :

MSVOA_X

ClientSampleId :

VX0523WBL01

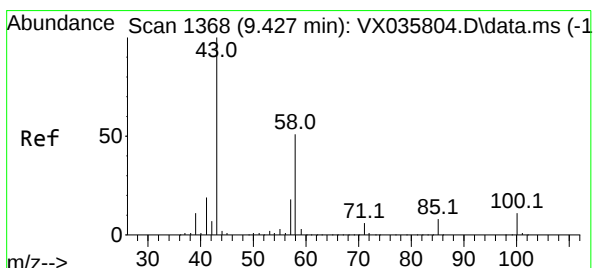
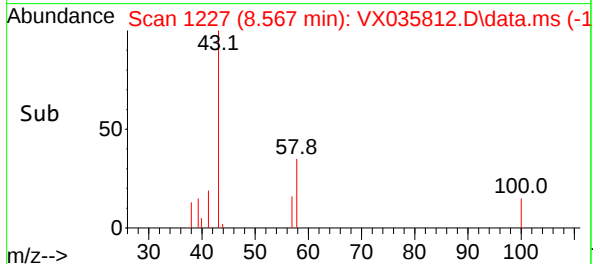
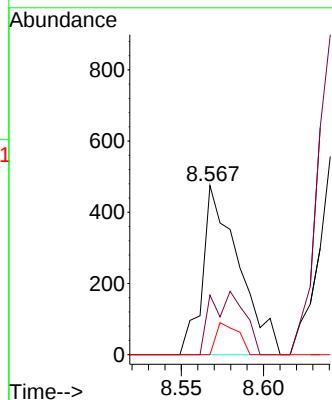
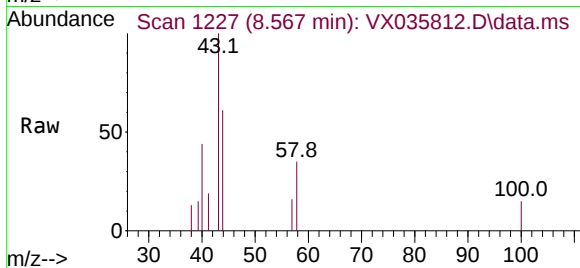
Tgt Ion: 43 Resp: 729

Ion Ratio Lower Upper

43 100

58 13.7 29.9 44.9#

85 0.0 13.2 19.8#



#59

2-Hexanone

Concen: 0.275 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX035812.D

Acq: 23 May 2023 13:58

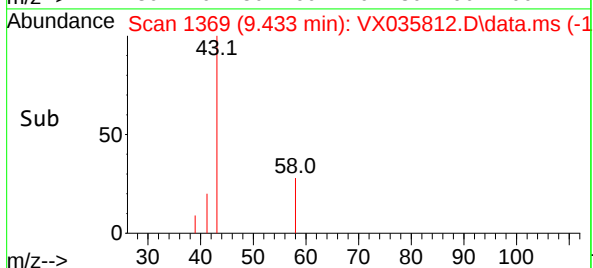
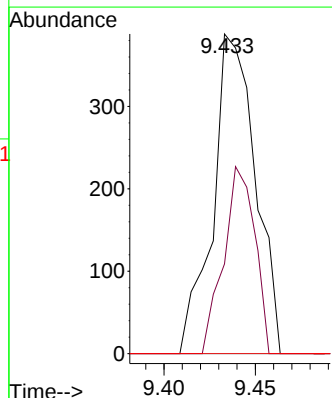
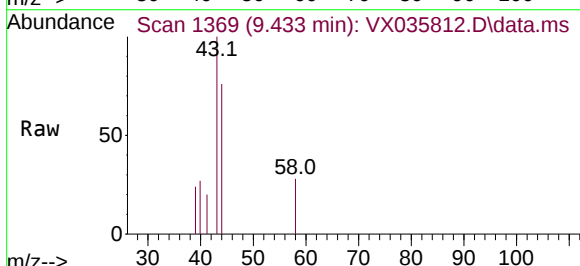
Tgt Ion: 43 Resp: 626

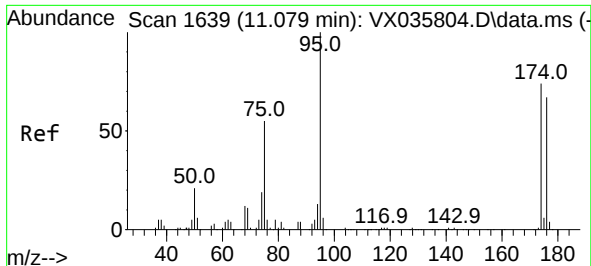
Ion Ratio Lower Upper

43 100

58 43.0 41.7 62.5

57 0.0 14.7 22.1#

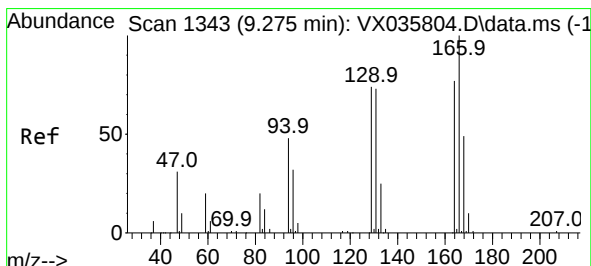
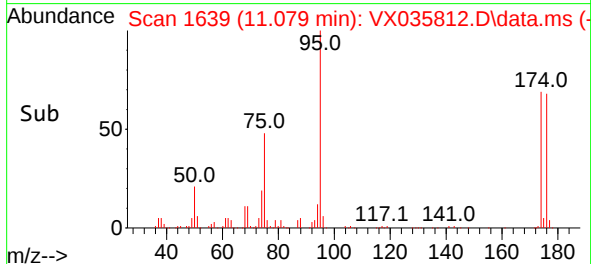
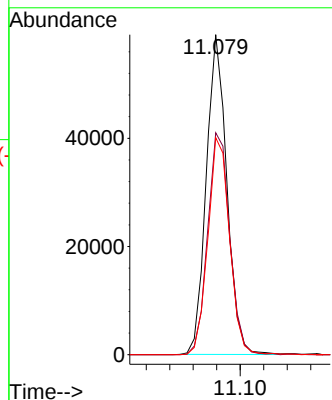
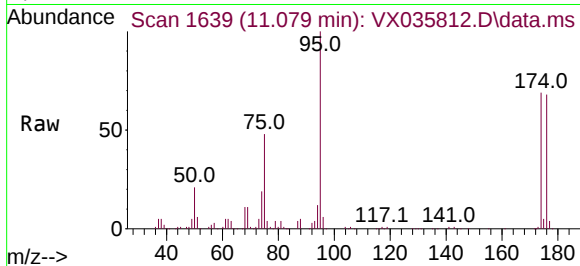




#60
4-Bromofluorobenzene
Concen: 27.504 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX035812.D
Acq: 23 May 2023 13:58

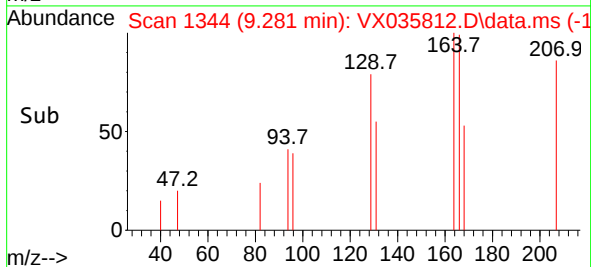
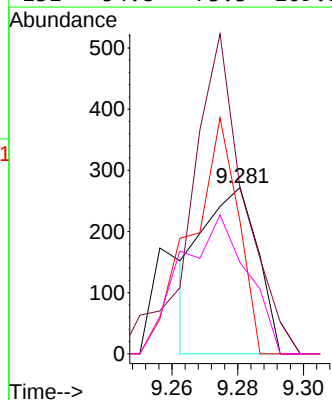
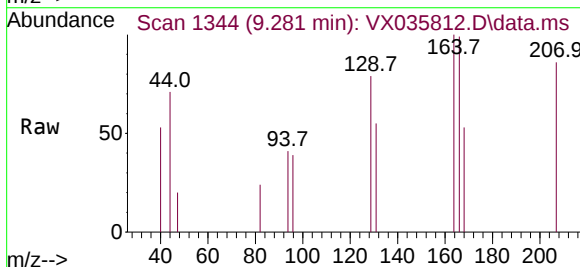
Instrument :
MSVOA_X
ClientSampleId :
VX0523WBL01

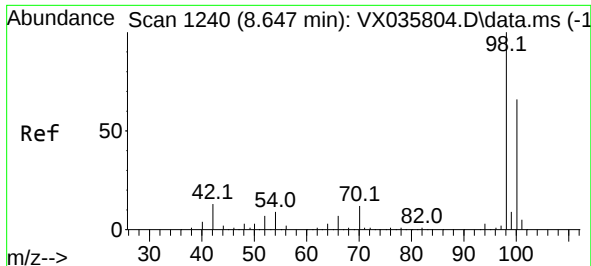
Tgt Ion: 95 Resp: 71847
Ion Ratio Lower Upper
95 100
174 74.2 0.2 0.4#
176 71.6 0.2 0.2#



#61
Tetrachloroethene
Concen: 0.212 ug/l
RT: 9.281 min Scan# 1344
Delta R.T. 0.006 min
Lab File: VX035812.D
Acq: 23 May 2023 13:58

Tgt Ion: 164 Resp: 318
Ion Ratio Lower Upper
164 100
166 80.1 100.1 150.1#
129 79.4 79.1 118.7
131 54.8 73.3 109.9#

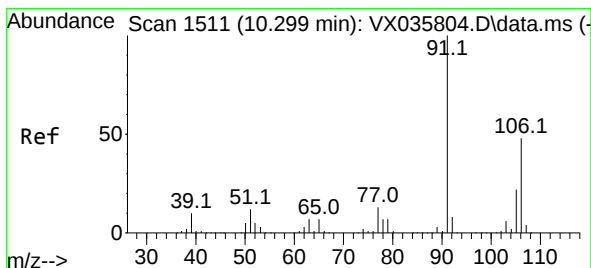
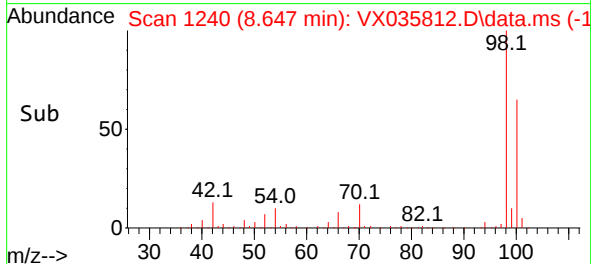
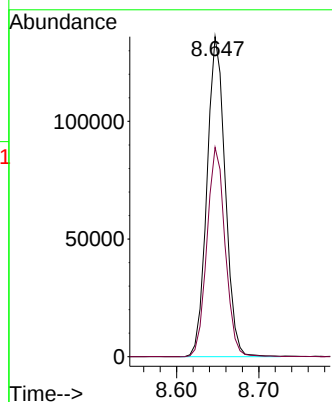
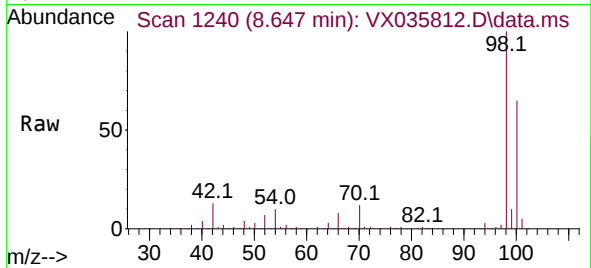




#63
Toluene-d8
Concen: 30.435 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX035812.D
Acq: 23 May 2023 13:58

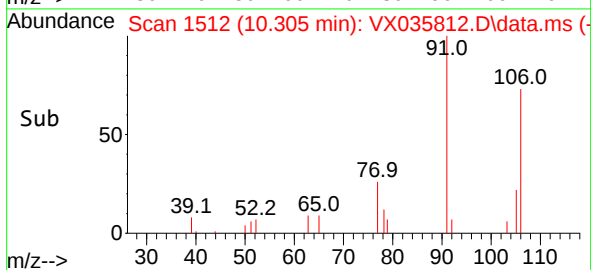
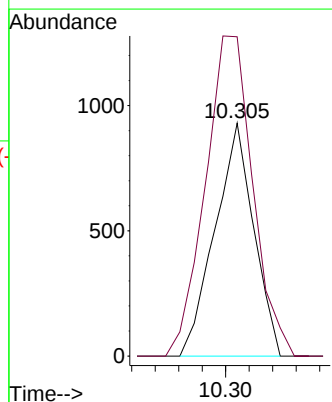
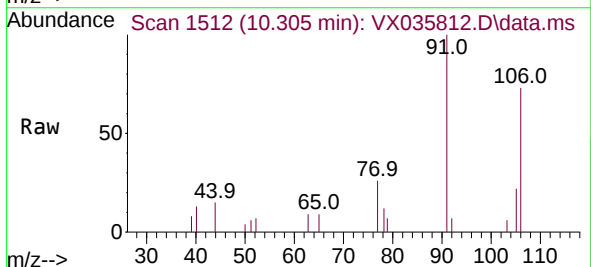
Instrument :
MSVOA_X
ClientSampleId :
VX0523WBL01

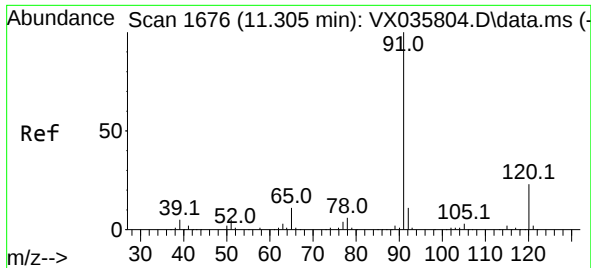
Tgt Ion: 98 Resp: 209461
Ion Ratio Lower Upper
98 100
100 65.3 52.1 78.1



#67
m/p-Xylenes
Concen: 0.314 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX035812.D
Acq: 23 May 2023 13:58

Tgt Ion:106 Resp: 1064
Ion Ratio Lower Upper
106 100
91 168.4 167.4 251.2

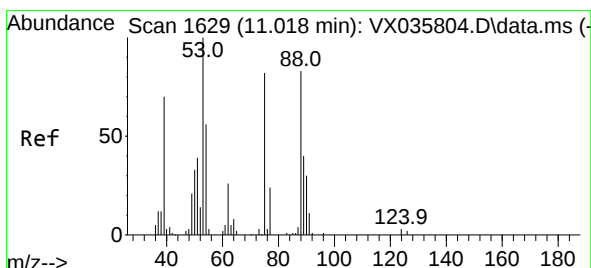
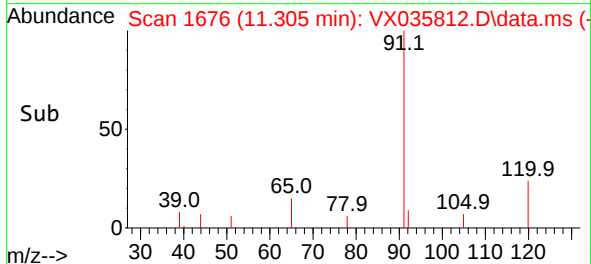
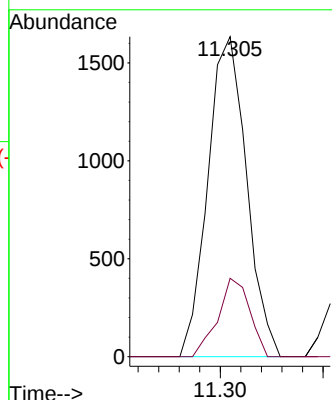
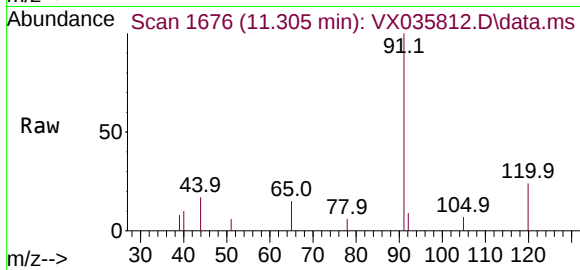




#74
n-propylbenzene
Concen: 0.207 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX035812.D
Acq: 23 May 2023 13:58

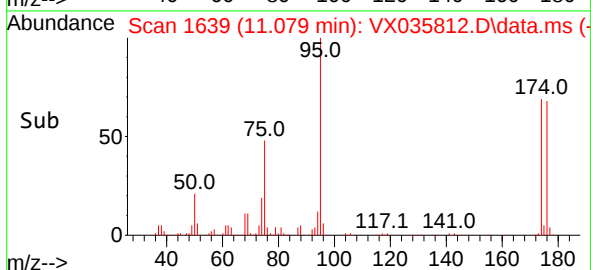
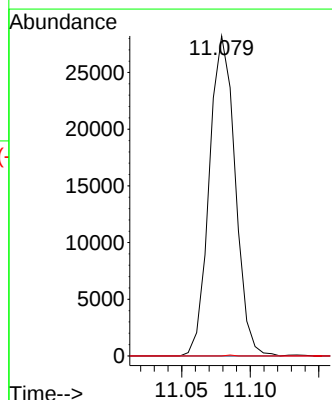
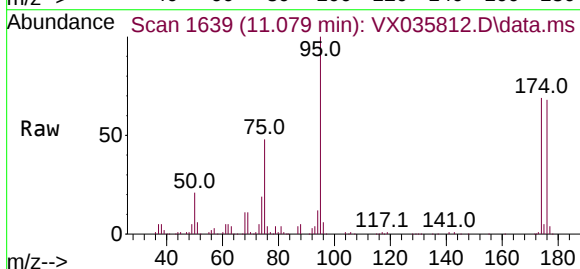
Instrument :
MSVOA_X
ClientSampleId :
VX0523WBL01

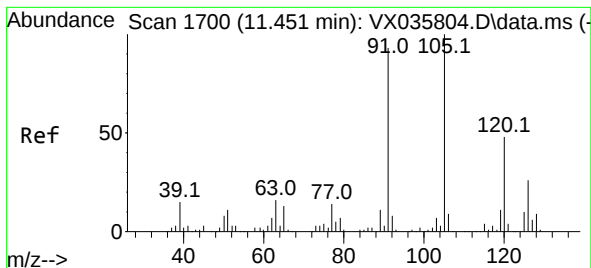
Tgt Ion: 91 Resp: 2138
Ion Ratio Lower Upper
91 100
120 20.1 0.0 44.8



#77
t-1,4-Dichloro-2-butene
Concen: 45.976 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX035812.D
Acq: 23 May 2023 13:58

Tgt Ion: 75 Resp: 37072
Ion Ratio Lower Upper
75 100
53 0.0 58.2 174.6#
89 0.0 20.6 61.8#

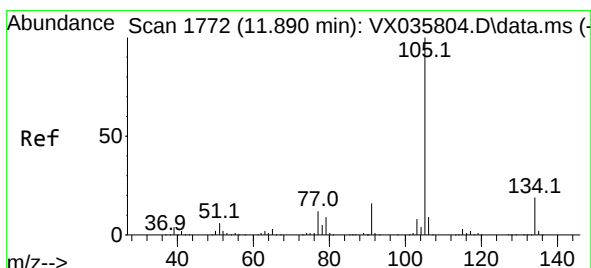
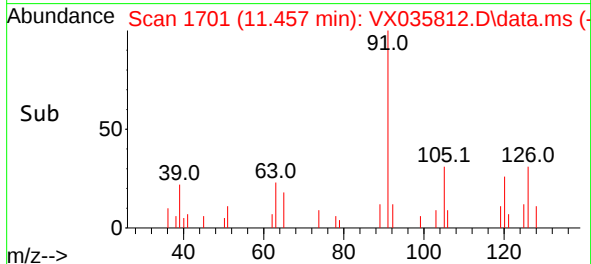
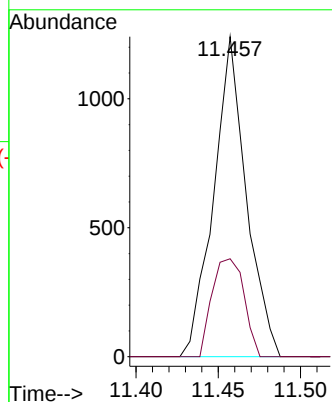
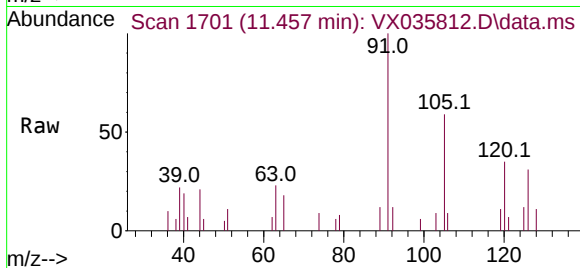




#78
4-Chlorotoluene
Concen: 0.238 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX035812.D
Acq: 23 May 2023 13:58

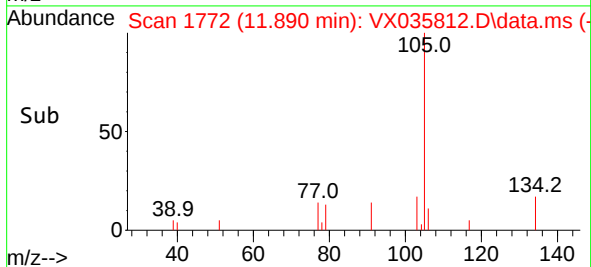
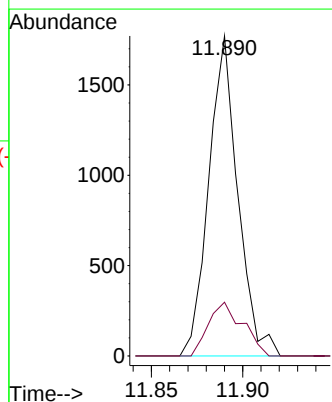
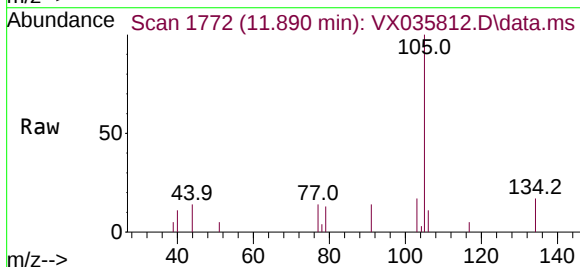
Instrument :
MSVOA_X
ClientSampleId :
VX0523WBL01

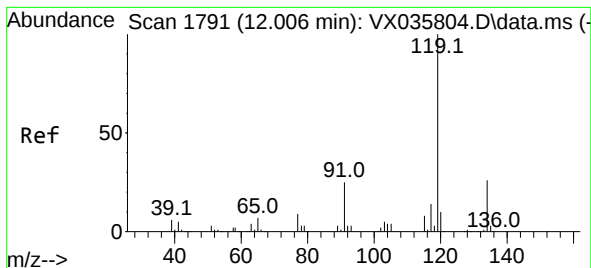
Tgt Ion: 91 Resp: 1717
Ion Ratio Lower Upper
91 100
126 29.8 0.0 56.8



#81
sec-Butylbenzene
Concen: 0.219 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX035812.D
Acq: 23 May 2023 13:58

Tgt Ion: 105 Resp: 1960
Ion Ratio Lower Upper
105 100
134 19.8 0.0 40.2





#82

p-Isopropyltoluene

Concen: 0.257 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX035812.D

Acq: 23 May 2023 13:58

Instrument :

MSVOA_X

ClientSampleId :

VX0523WBL01

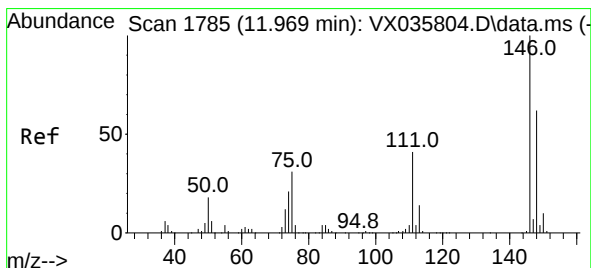
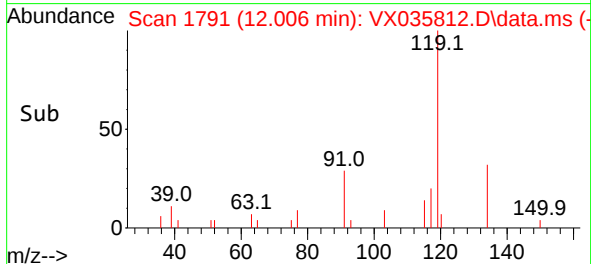
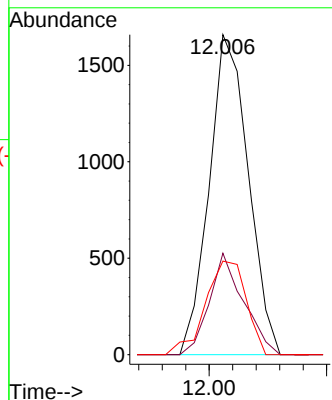
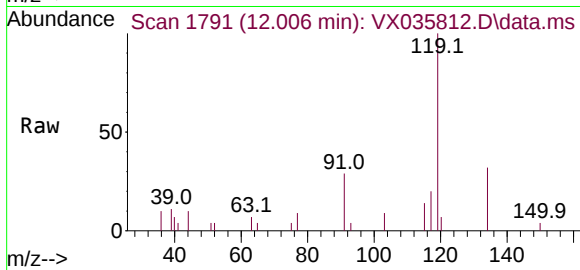
Tgt Ion:119 Resp: 1917

Ion Ratio Lower Upper

119 100

134 27.6 0.0 52.2

91 30.6 0.0 51.0



#83

1,3-Dichlorobenzene

Concen: 0.325 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX035812.D

Acq: 23 May 2023 13:58

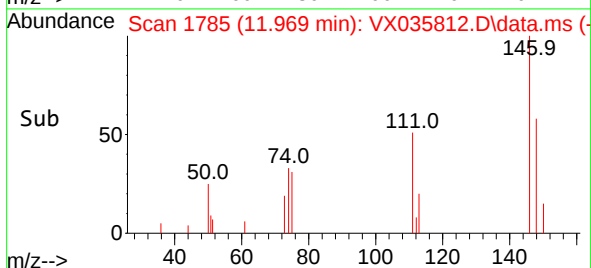
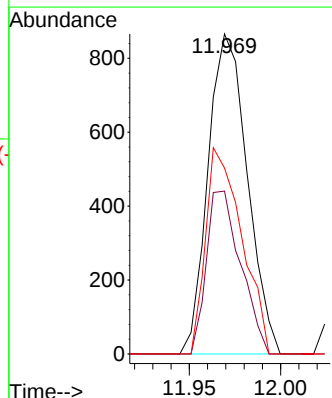
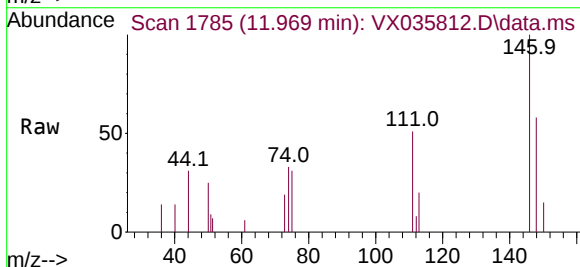
Tgt Ion:146 Resp: 1294

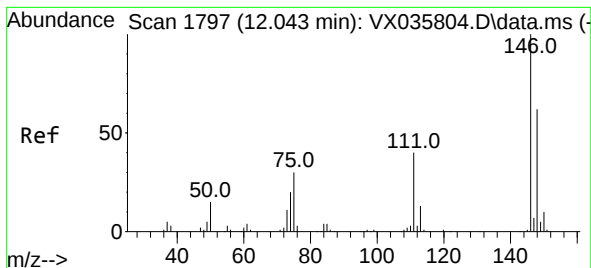
Ion Ratio Lower Upper

146 100

111 44.4 20.6 61.9

148 59.4 31.6 94.7





#84

1,4-Dichlorobenzene

Concen: 0.351 ug/l

RT: 12.042 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX035812.D

Acq: 23 May 2023 13:58

Instrument :

MSVOA_X

ClientSampleId :

VX0523WBL01

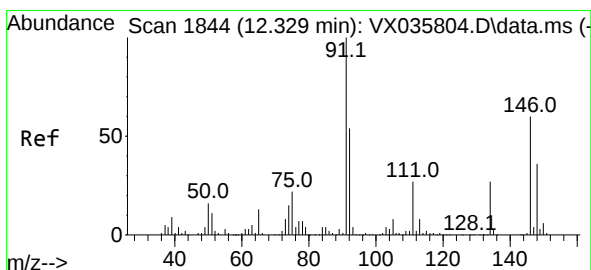
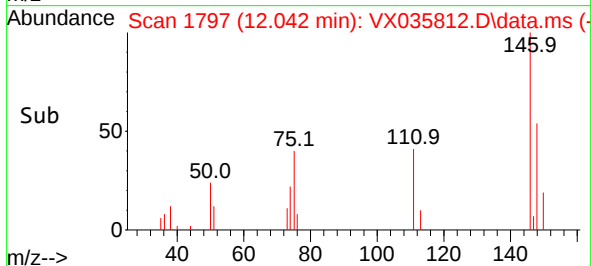
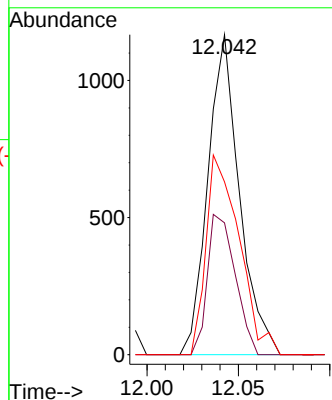
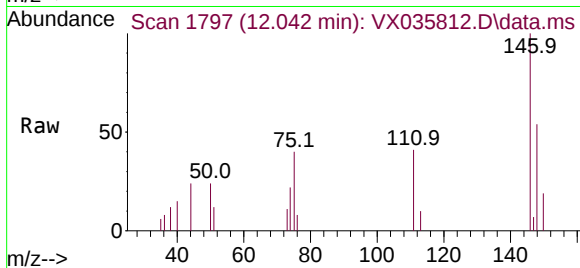
Tgt Ion:146 Resp: 1403

Ion Ratio Lower Upper

146 100

111 38.7 20.3 60.9

148 65.7 31.8 95.3



#85

n-Butylbenzene

Concen: 0.381 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX035812.D

Acq: 23 May 2023 13:58

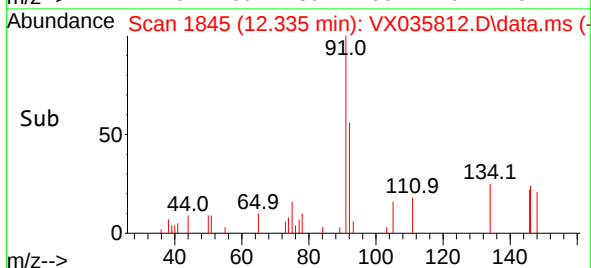
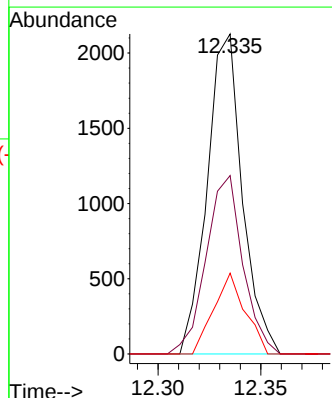
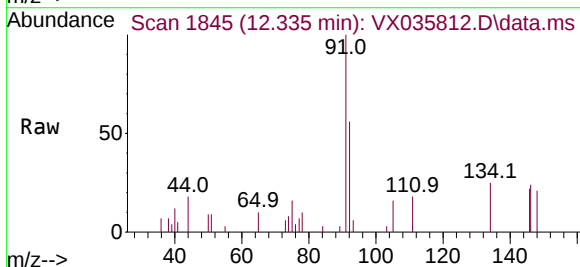
Tgt Ion: 91 Resp: 2530

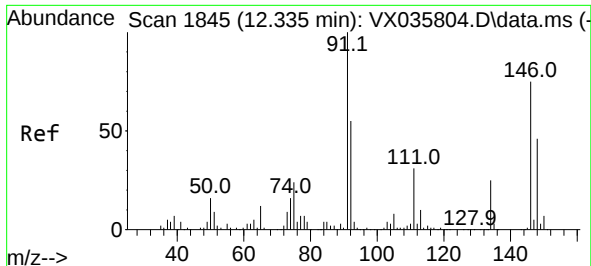
Ion Ratio Lower Upper

91 100

92 58.2 0.0 107.6

134 22.5 0.0 49.8

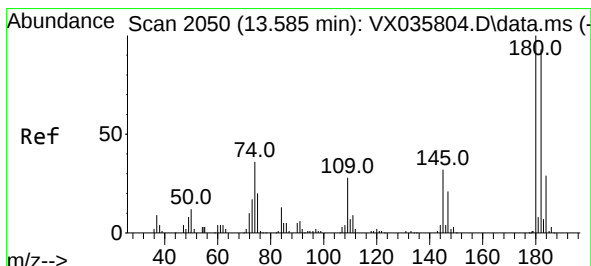
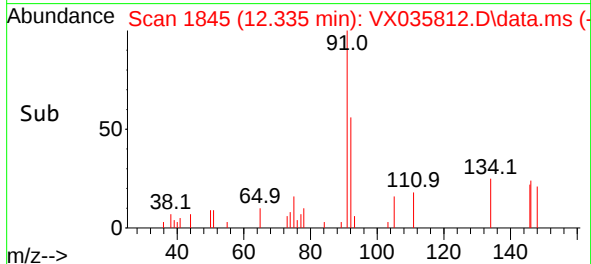
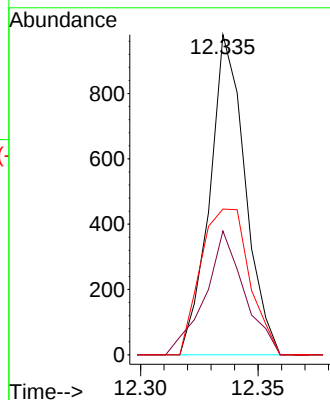
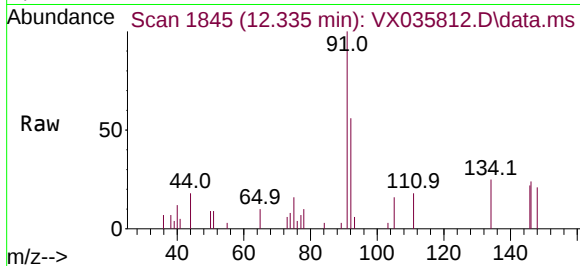




#87
 1,2-Dichlorobenzene
 Concen: 0.263 ug/l
 RT: 12.335 min Scan# 1845
 Delta R.T. -0.000 min
 Lab File: VX035812.D
 Acq: 23 May 2023 13:58

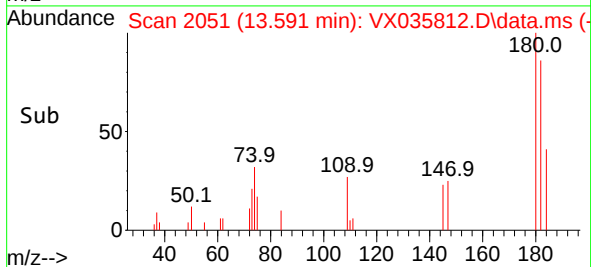
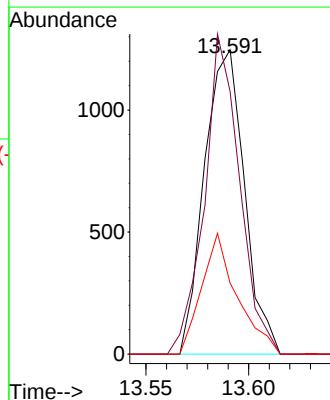
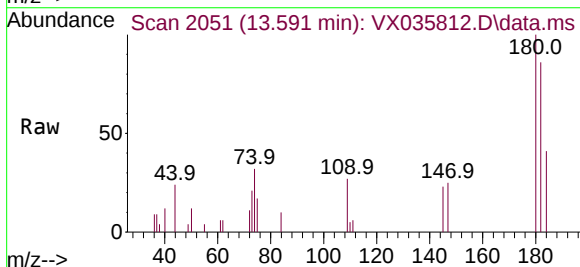
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0523WBL01

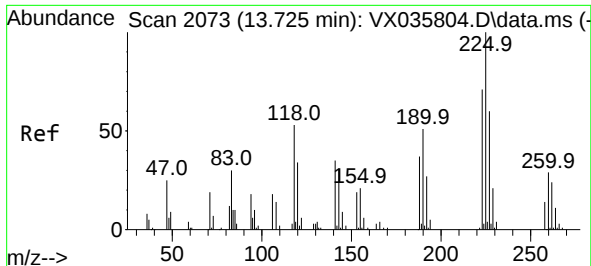
Tgt Ion:146	Resp:	1028
Ion	Ratio	Lower Upper
146	100	
111	42.9	21.3 64.0
148	62.6	31.7 95.1



#89
 1,2,4-Trichlorobenzene
 Concen: 0.722 ug/l
 RT: 13.591 min Scan# 2051
 Delta R.T. 0.006 min
 Lab File: VX035812.D
 Acq: 23 May 2023 13:58

Tgt Ion:180	Resp:	1689
Ion	Ratio	Lower Upper
180	100	
182	92.1	75.8 113.8
145	35.2	25.8 38.6

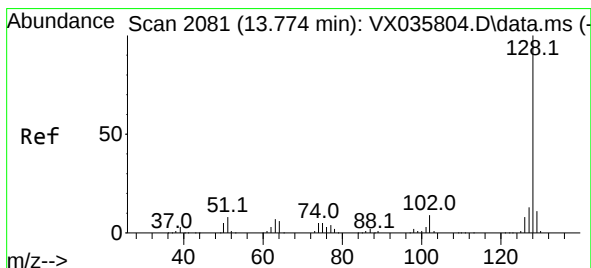
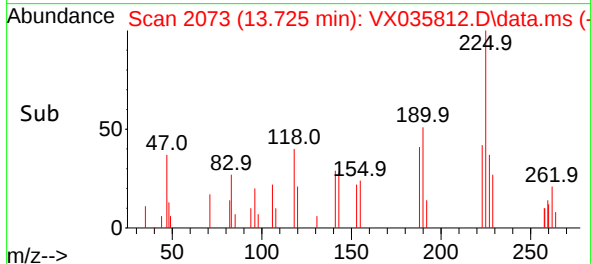
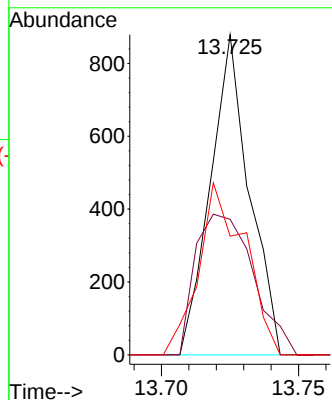
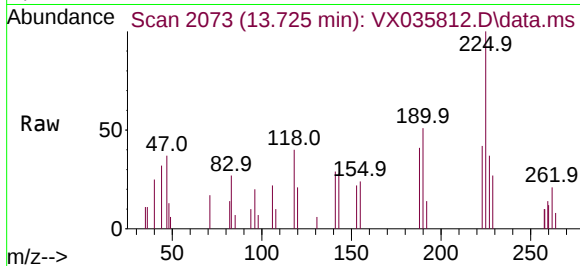




#90
Hexachlorobutadiene
Concen: 1.005 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX035812.D
Acq: 23 May 2023 13:58

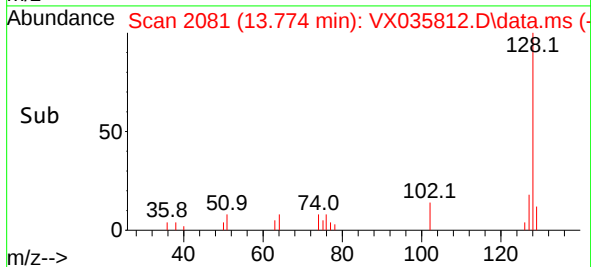
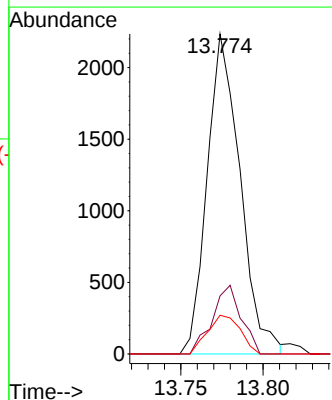
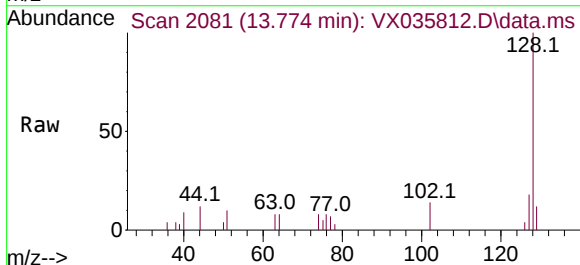
Instrument :
MSVOA_X
ClientSampleId :
VX0523WBL01

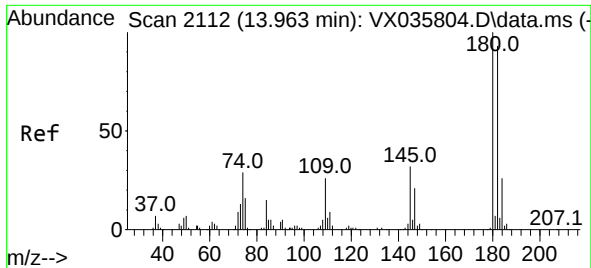
Tgt Ion:225	Resp:	867
Ion Ratio	Lower	Upper
225	100	
223	65.6	0.0 124.2
227	63.6	0.0 122.8



#91
Naphthalene
Concen: 0.385 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX035812.D
Acq: 23 May 2023 13:58

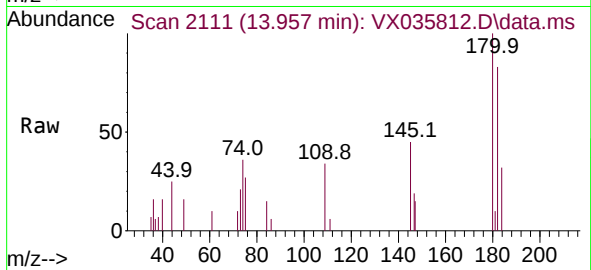
Tgt Ion:128	Resp:	3113
Ion Ratio	Lower	Upper
128	100	
127	18.8	10.3 15.5#
129	12.0	8.8 13.2





#92
 1,2,3-Trichlorobenzene
 Concen: 0.642 ug/l
 RT: 13.957 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VX035812.D
 Acq: 23 May 2023 13:58

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0523WBL01



Tgt Ion:	180	Resp:	1500
Ion	Ratio	Lower	Upper
180	100		
182	93.3	0.0	191.0
145	40.1	0.0	66.8

