

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070723\
 Data File : VX036453.D
 Acq On : 07 Jul 2023 12:18
 Operator : JC/MD
 Sample : 03533-01 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 7623

Quant Time: Jul 07 23:03:43 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X062323W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 23 15:03:28 2023
 Response via : Initial Calibration

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

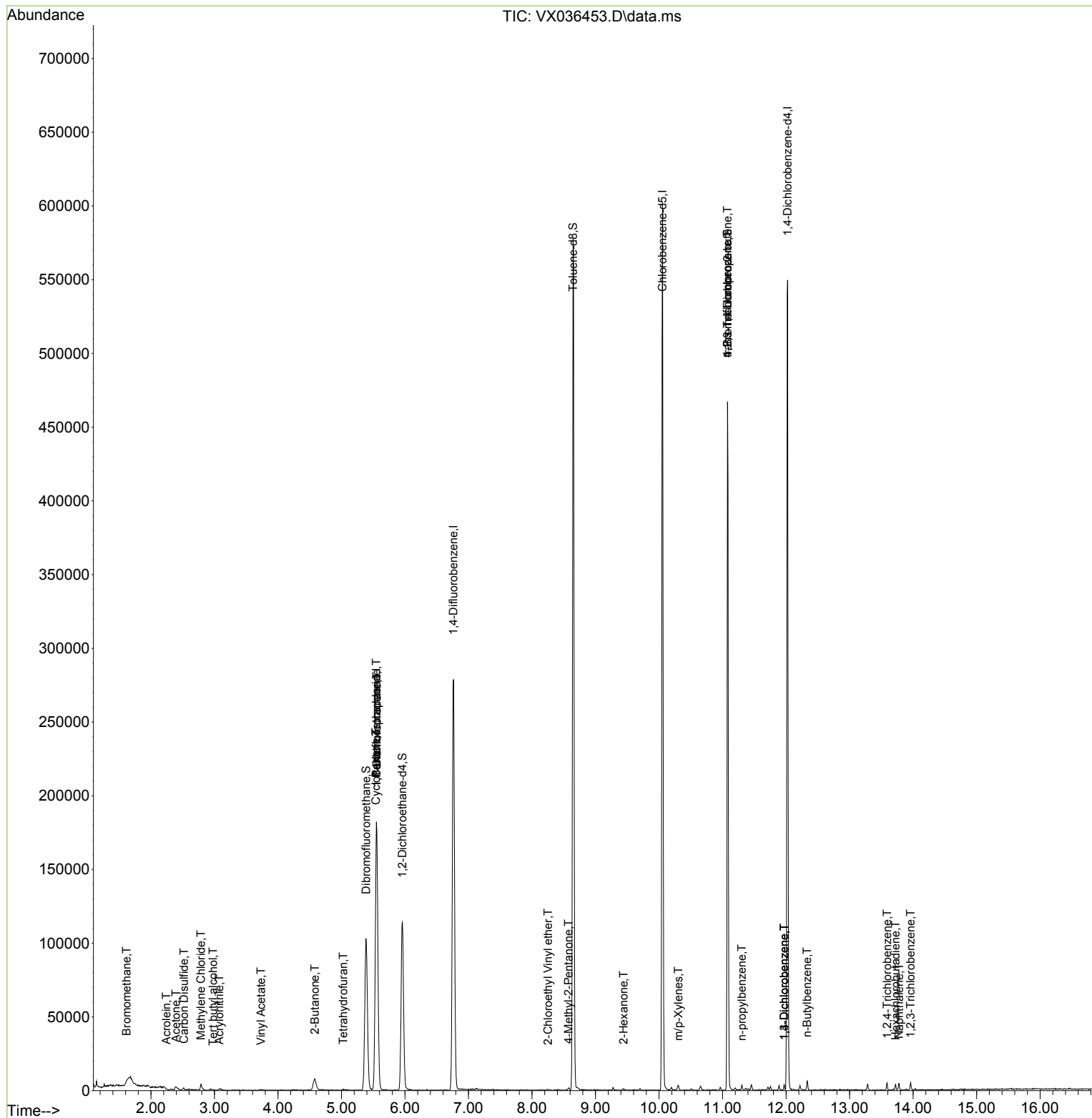
Internal Standards						
1) Pentafluorobenzene	5.550	168	170129	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	288583	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	259985	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	115122	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	111883	45.878	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	91.760%
35) Dibromofluoromethane	5.385	113	90843	47.741	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.480%
50) Toluene-d8	8.647	98	348311	49.009	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	98.020%
62) 4-Bromofluorobenzene	11.079	95	122643	48.991	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	97.980%
Target Compounds						
					Qvalue	
5) Bromomethane	1.618	94	535	0.239	ug/l	100
11) Tert butyl alcohol	2.977	59	213	0.480	ug/l #	78
13) Acrolein	2.239	56	196	0.321	ug/l	96
15) Acrylonitrile	3.075	53	454	0.403	ug/l #	83
16) Acetone	2.392	43	3101	2.975	ug/l	100
17) Carbon Disulfide	2.520	76	1856	0.391	ug/l #	75
20) Methylene Chloride	2.788	84	1496	0.667	ug/l #	75
23) Vinyl Acetate	3.733	43	1129	0.247	ug/l #	73
25) 2-Butanone	4.580	43	2501	1.670	ug/l #	88
29) Tetrahydrofuran	5.025	42	497	0.521	ug/l #	61
31) Cyclohexane	5.544	56	3824	1.224	ug/l #	14
36) 1,1-Dichloropropene	5.556	75	14086	4.966	ug/l #	51
38) Carbon Tetrachloride	5.550	117	17157	6.623	ug/l #	14
51) 4-Methyl-2-Pentanone	8.574	43	1210	0.407	ug/l	91
58) 2-Chloroethyl Vinyl ether	8.251	63	380	0.217	ug/l #	47
59) 2-Hexanone	9.439	43	807	0.372	ug/l	89
68) m/p-Xylenes	10.305	106	768	0.203	ug/l	83
76) 1,2,3-Trichloropropane	11.079	75	62206	25.332	ug/l #	38
78) n-propylbenzene	11.305	91	2274	0.224	ug/l	94
81) trans-1,4-Dichloro-2-b...	11.079	75	62206	82.577	ug/l #	5
87) 1,3-Dichlorobenzene	11.969	146	1009	0.257	ug/l	91
88) 1,4-Dichlorobenzene	11.969	146	1009	0.253	ug/l	92
89) n-Butylbenzene	12.329	91	1973	0.296	ug/l	91
93) 1,2,4-Trichlorobenzene	13.591	180	1203	0.506	ug/l	98
94) Hexachlorobutadiene	13.725	225	522	0.536	ug/l #	65
95) Naphthalene	13.780	128	3122	0.397	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	1118	0.482	ug/l	81

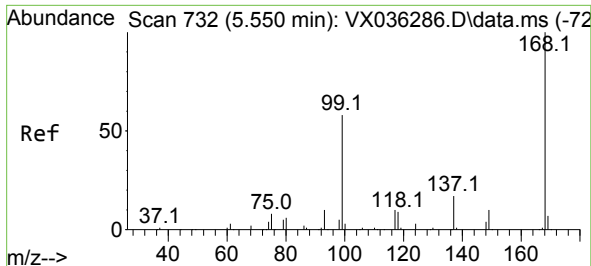
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jun 23 15:03:28 2023
Response via : Initial Calibration

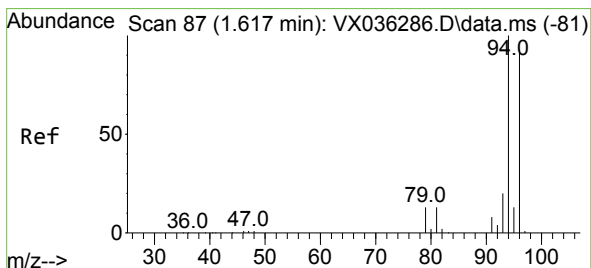
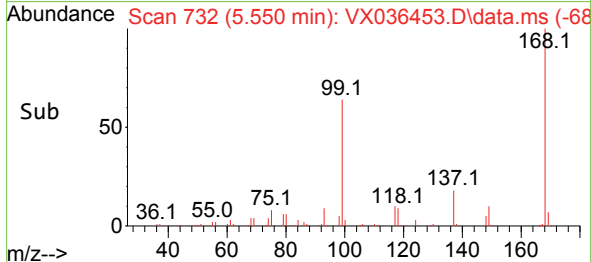
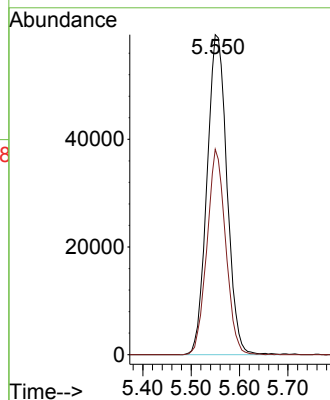
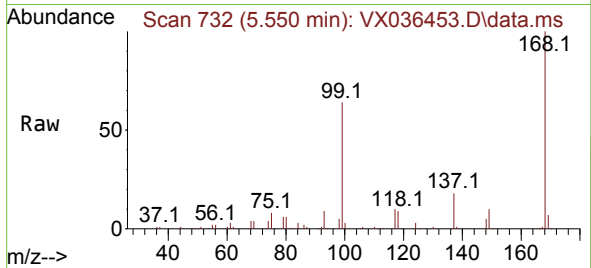




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.001 min
Lab File: VX036453.D
Acq: 07 Jul 2023 12:18

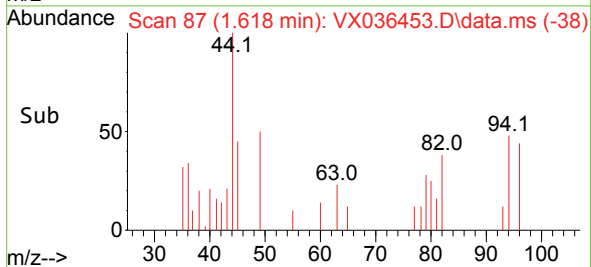
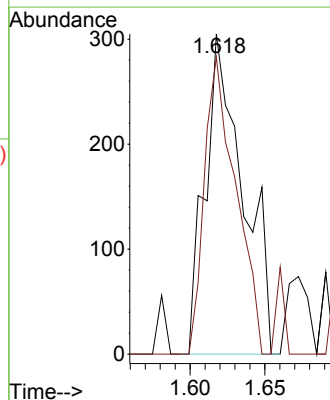
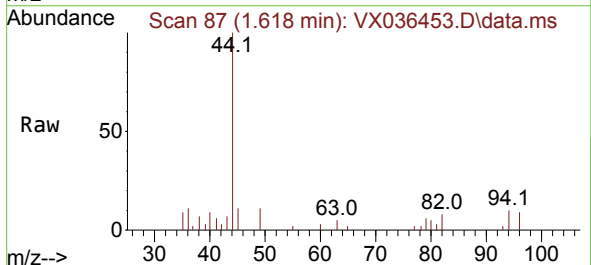
Instrument :
MSVOA_X
ClientSampleId :
7623

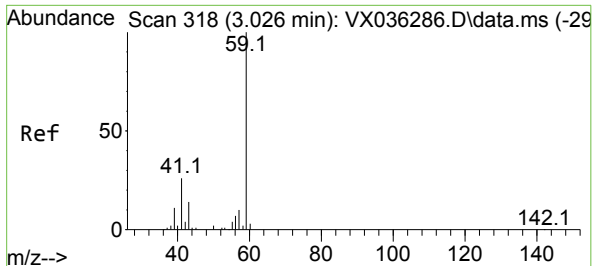
Tgt Ion:168 Resp: 170129
Ion Ratio Lower Upper
168 100
99 64.2 56.6 85.0



#5
Bromomethane
Concen: 0.239 ug/l
RT: 1.618 min Scan# 87
Delta R.T. 0.001 min
Lab File: VX036453.D
Acq: 07 Jul 2023 12:18

Tgt Ion: 94 Resp: 535
Ion Ratio Lower Upper
94 100
96 92.8 74.6 111.8

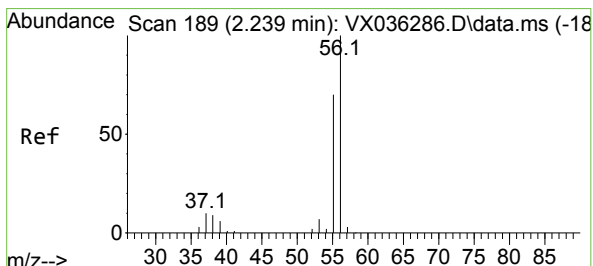
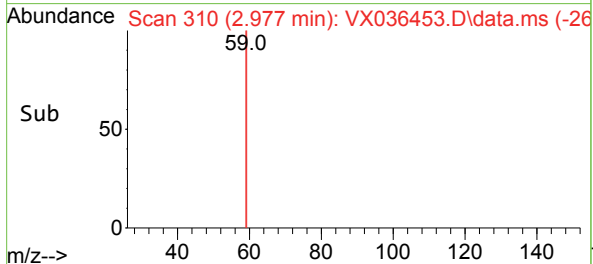
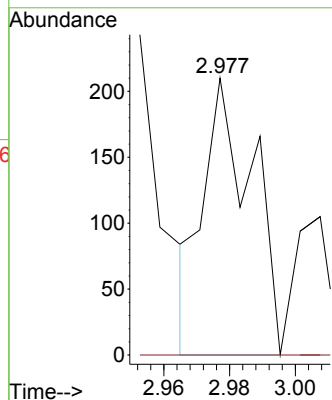
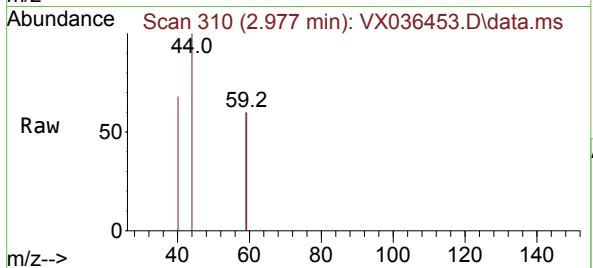




#11
Tert butyl alcohol
Concen: 0.480 ug/l
RT: 2.977 min Scan# 318
Delta R.T. -0.036 min
Lab File: VX036453.D
Acq: 07 Jul 2023 12:18

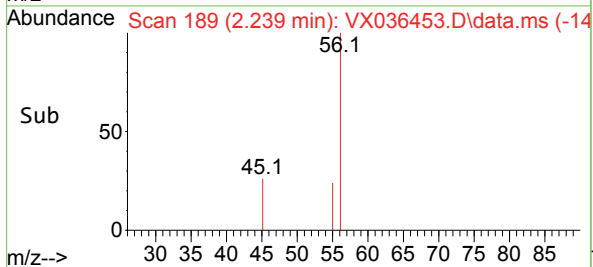
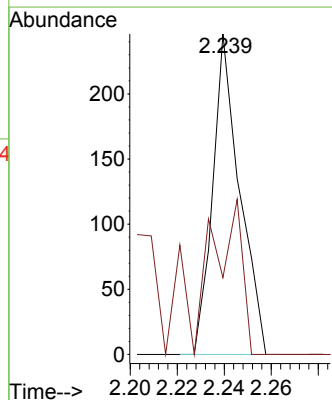
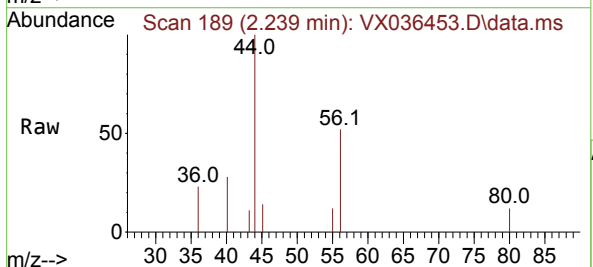
Instrument :
MSVOA_X
ClientSampleId :
7623

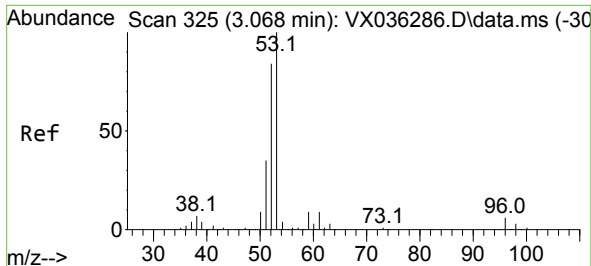
Tgt Ion: 59 Resp: 213
Ion Ratio Lower Upper
59 100
57 0.0 6.0 9.0#



#13
Acrolein
Concen: 0.321 ug/l
RT: 2.239 min Scan# 189
Delta R.T. 0.000 min
Lab File: VX036453.D
Acq: 07 Jul 2023 12:18

Tgt Ion: 56 Resp: 196
Ion Ratio Lower Upper
56 100
55 68.4 57.1 85.7

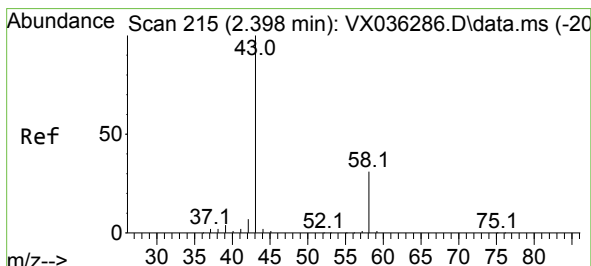
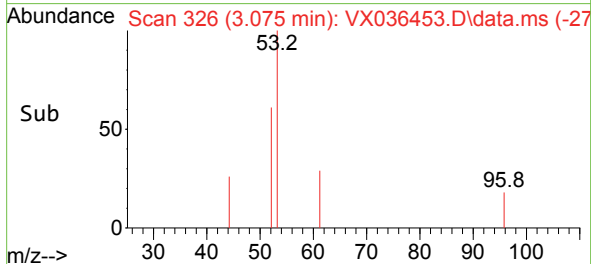
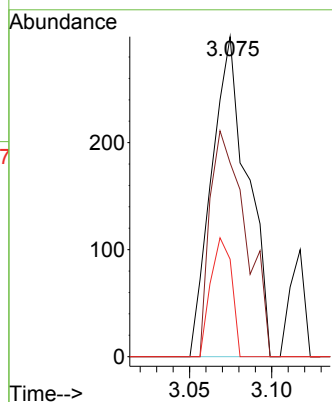
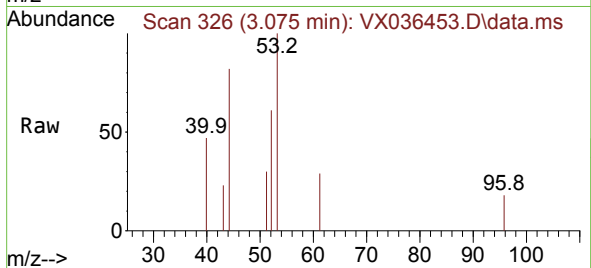




#15
Acrylonitrile
Concen: 0.403 ug/l
RT: 3.075 min Scan# 31
Delta R.T. 0.001 min
Lab File: VX036453.D
Acq: 07 Jul 2023 12:18

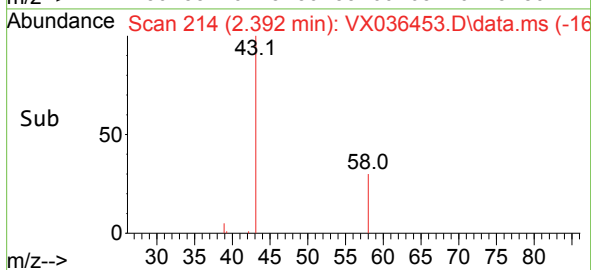
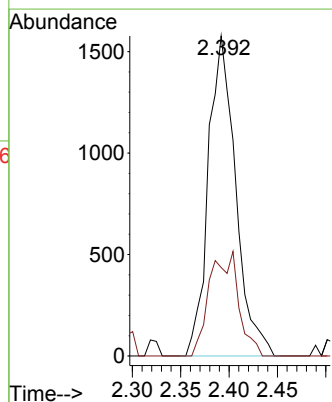
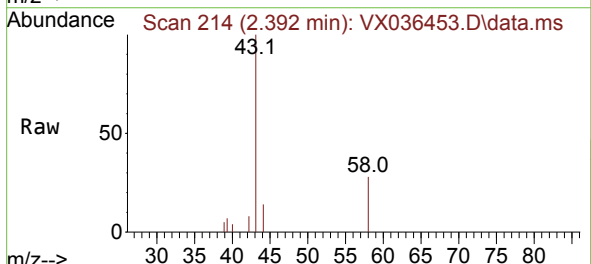
Instrument :
MSVOA_X
ClientSampleId :
7623

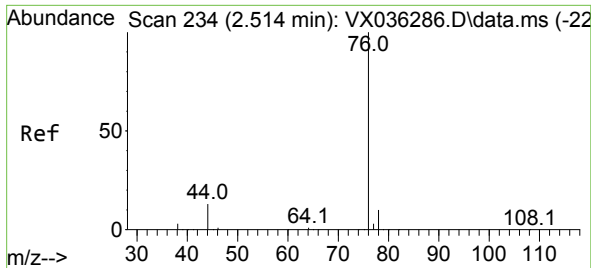
Tgt Ion: 53 Resp: 454
Ion Ratio Lower Upper
53 100
52 70.3 66.0 99.0
51 21.8 29.8 44.6#



#16
Acetone
Concen: 2.975 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.012 min
Lab File: VX036453.D
Acq: 07 Jul 2023 12:18

Tgt Ion: 43 Resp: 3101
Ion Ratio Lower Upper
43 100
58 27.6 21.9 32.9





#17

Carbon Disulfide

Concen: 0.391 ug/l

RT: 2.520 min Scan# 21

Delta R.T. 0.007 min

Lab File: VX036453.D

Acq: 07 Jul 2023 12:18

Instrument :

MSVOA_X

ClientSampleId :

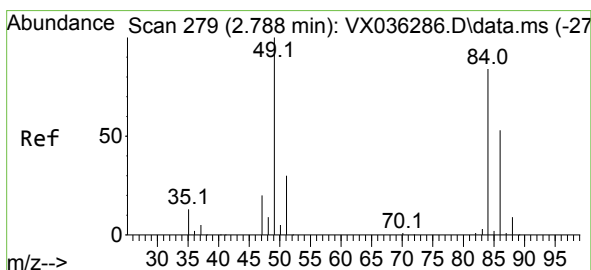
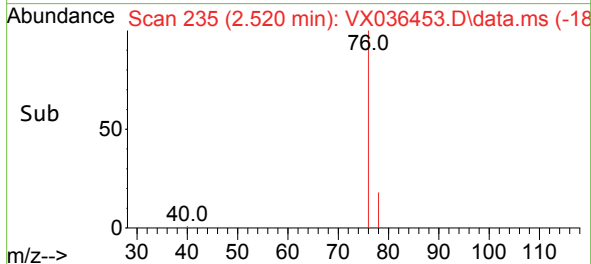
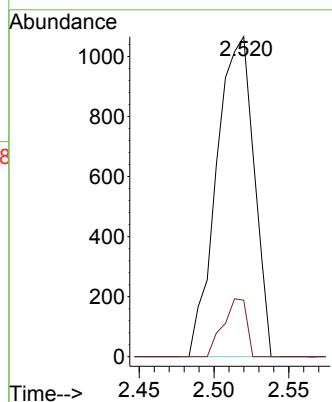
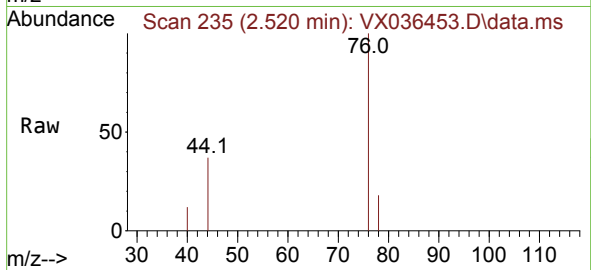
7623

Tgt Ion: 76 Resp: 1856

Ion Ratio Lower Upper

76 100

78 17.6 7.0 10.6#



#20

Methylene Chloride

Concen: 0.667 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX036453.D

Acq: 07 Jul 2023 12:18

Tgt Ion: 84 Resp: 1496

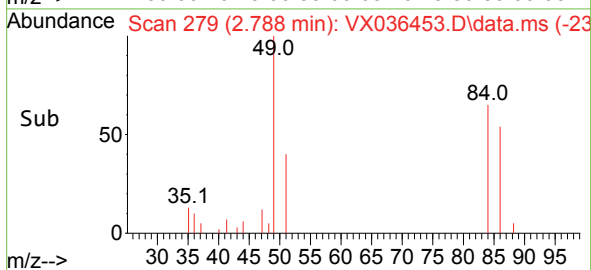
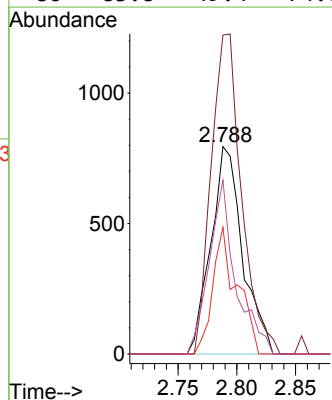
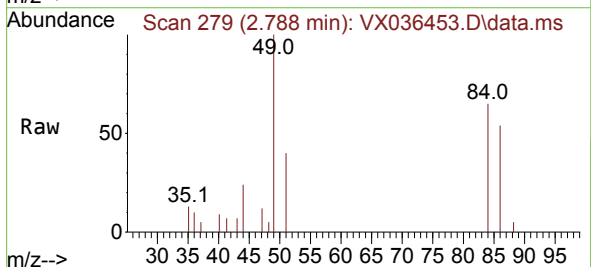
Ion Ratio Lower Upper

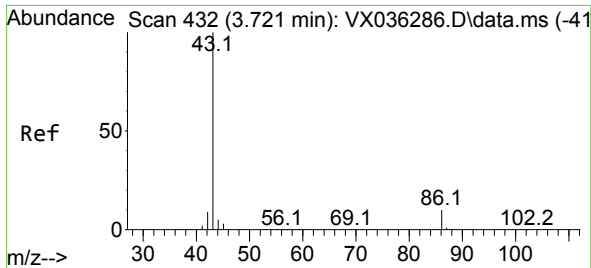
84 100

49 153.8 103.6 155.4

51 61.0 33.8 50.6#

86 83.8 49.4 74.0#

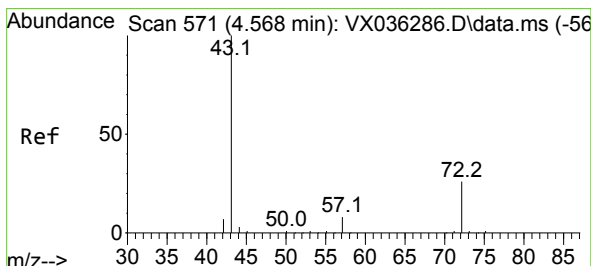
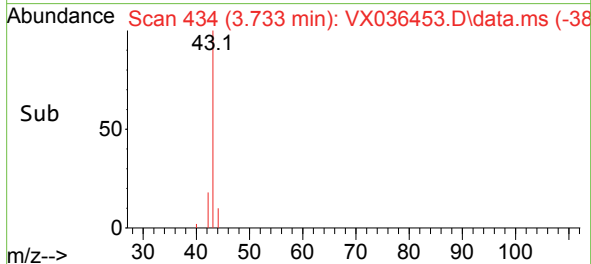
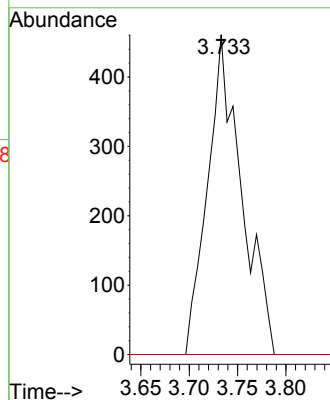
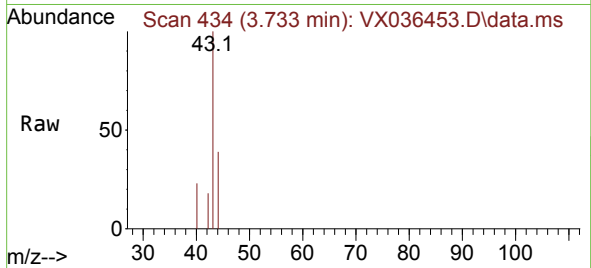




#23
 Vinyl Acetate
 Concen: 0.247 ug/l
 RT: 3.733 min Scan# 41
 Delta R.T. 0.012 min
 Lab File: VX036453.D
 Acq: 07 Jul 2023 12:18

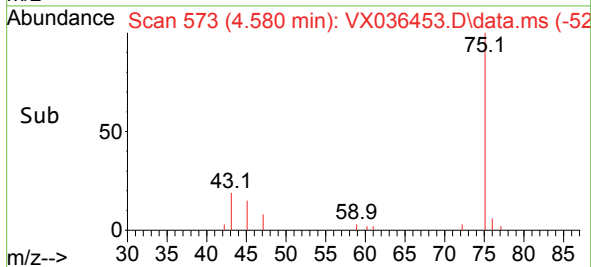
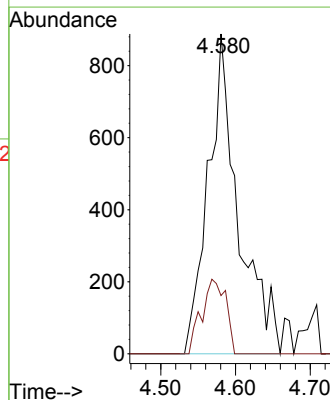
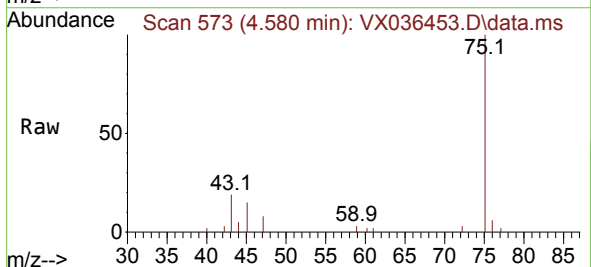
Instrument :
 MSVOA_X
 ClientSampleId :
 7623

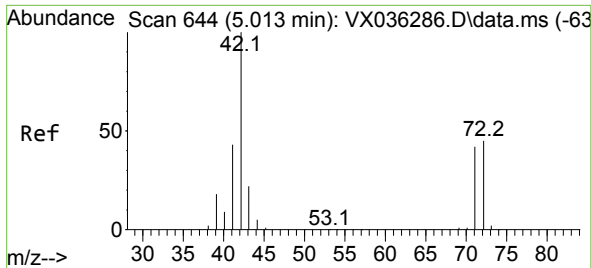
Tgt Ion: 43 Resp: 1129
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.8 11.8#



#25
 2-Butanone
 Concen: 1.670 ug/l
 RT: 4.580 min Scan# 573
 Delta R.T. 0.012 min
 Lab File: VX036453.D
 Acq: 07 Jul 2023 12:18

Tgt Ion: 43 Resp: 2501
 Ion Ratio Lower Upper
 43 100
 72 18.2 19.4 29.2#





#29

Tetrahydrofuran

Concen: 0.521 ug/l

RT: 5.025 min Scan# 64

Delta R.T. 0.006 min

Lab File: VX036453.D

Acq: 07 Jul 2023 12:18

Instrument :

MSVOA_X

ClientSampleId :

7623

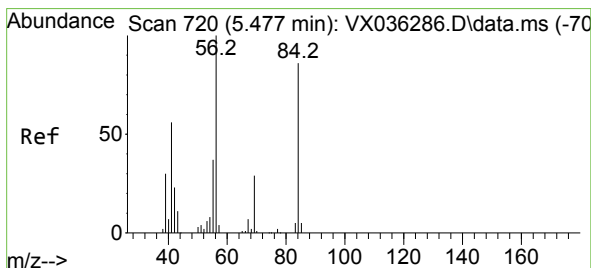
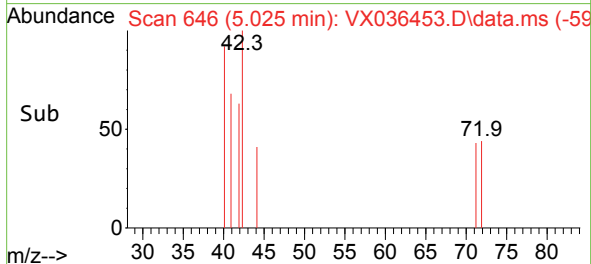
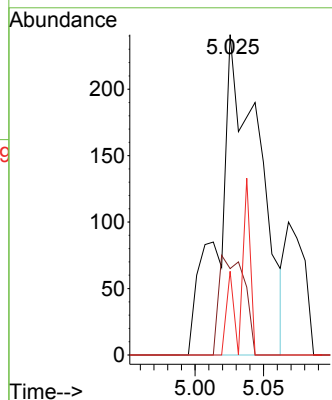
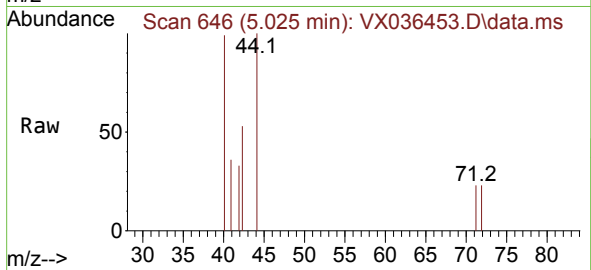
Tgt Ion: 42 Resp: 497

Ion Ratio Lower Upper

42 100

72 19.1 34.2 51.4#

71 14.5 32.2 48.2#



#31

Cyclohexane

Concen: 1.224 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.074 min

Lab File: VX036453.D

Acq: 07 Jul 2023 12:18

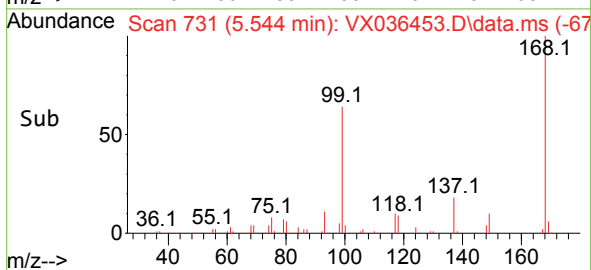
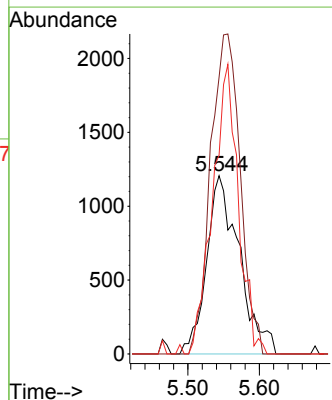
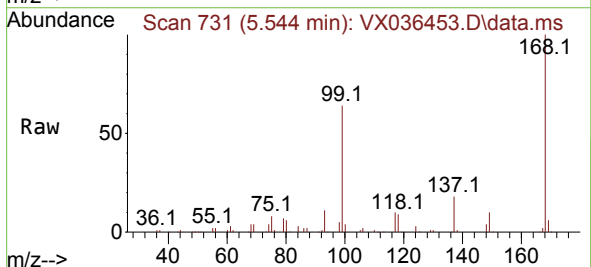
Tgt Ion: 56 Resp: 3824

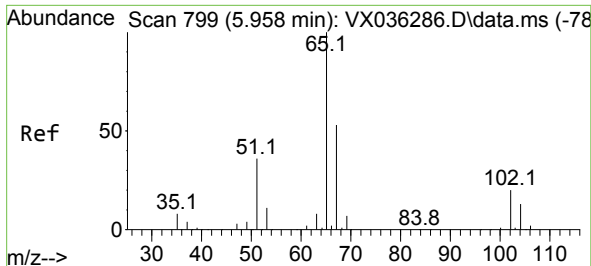
Ion Ratio Lower Upper

56 100

69 155.4 23.4 35.2#

84 111.5 65.9 98.9#

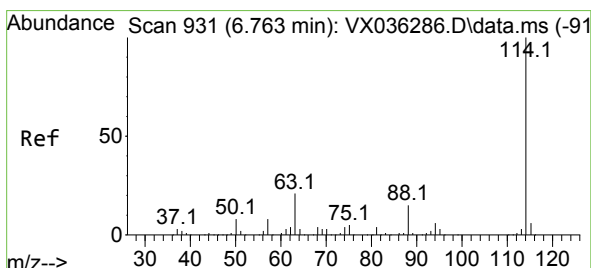
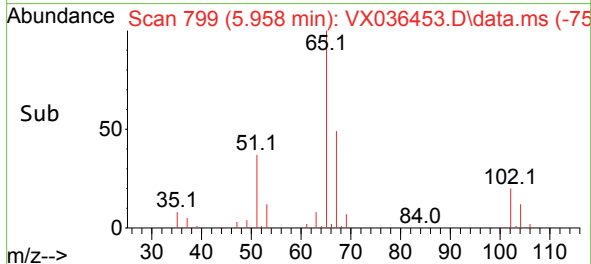
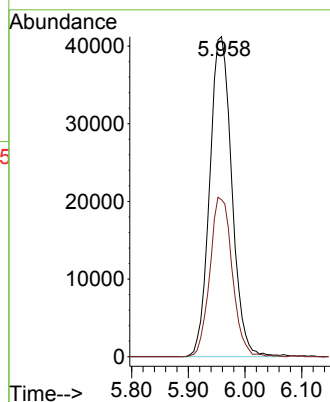
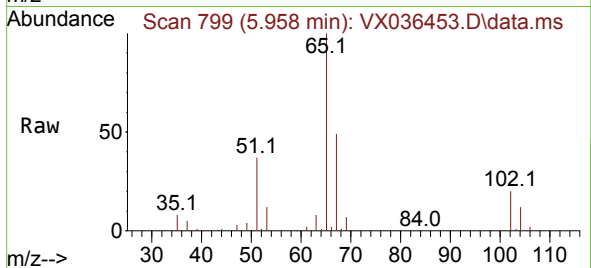




#33
 1,2-Dichloroethane-d4
 Concen: 45.878 ug/l
 RT: 5.958 min Scan# 799
 Delta R.T. 0.000 min
 Lab File: VX036453.D
 Acq: 07 Jul 2023 12:18

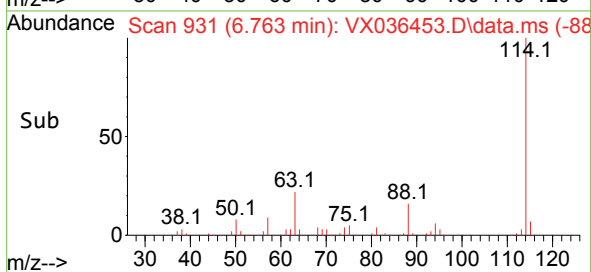
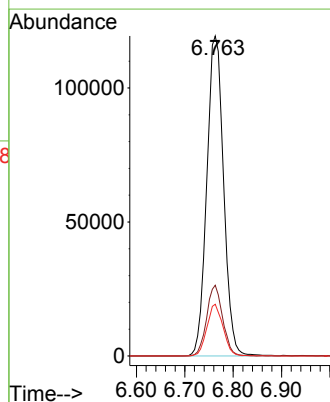
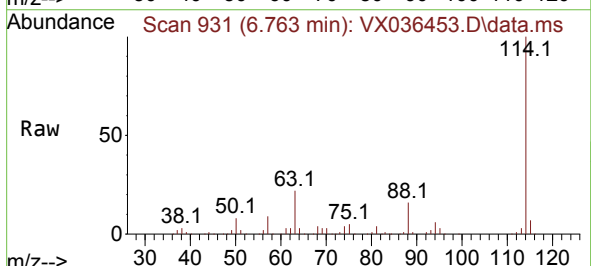
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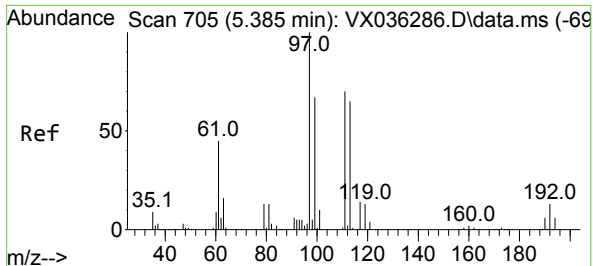
Tgt Ion: 65 Resp: 111883
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 100.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.763 min Scan# 931
 Delta R.T. -0.000 min
 Lab File: VX036453.D
 Acq: 07 Jul 2023 12:18

Tgt Ion:114 Resp: 288583
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 45.0
 88 16.2 0.0 36.6

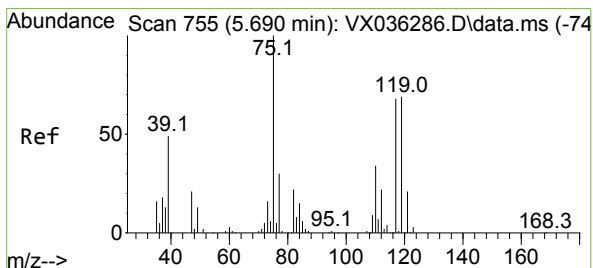
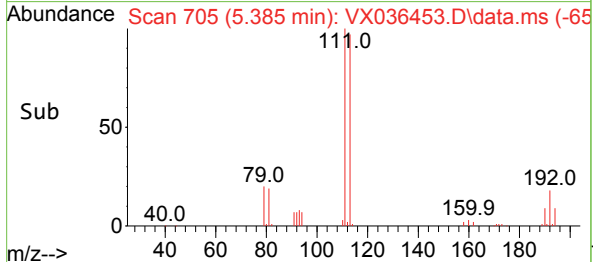
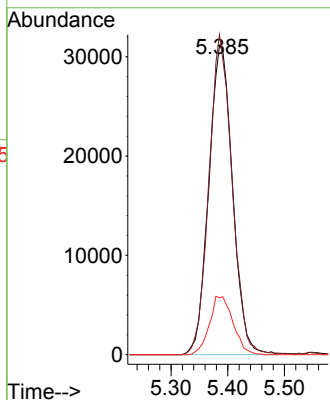
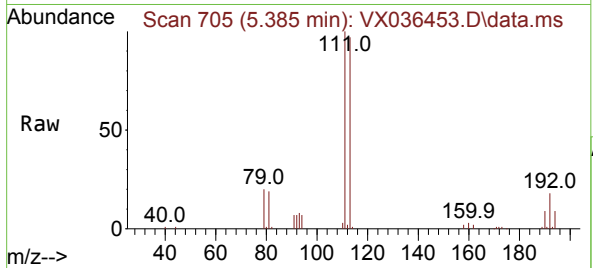




#35
Dibromofluoromethane
Concen: 47.741 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX036453.D
Acq: 07 Jul 2023 12:18

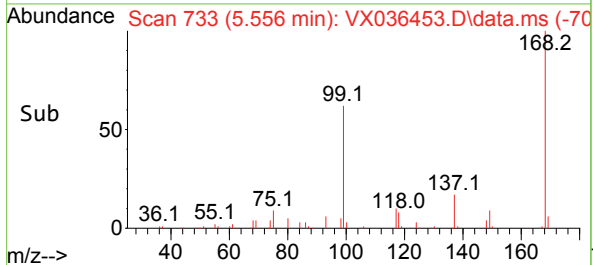
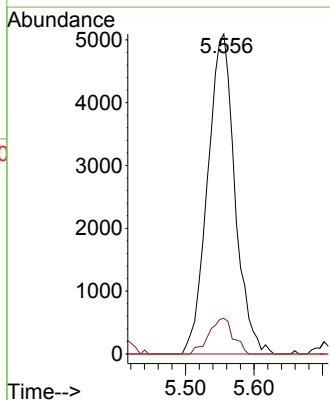
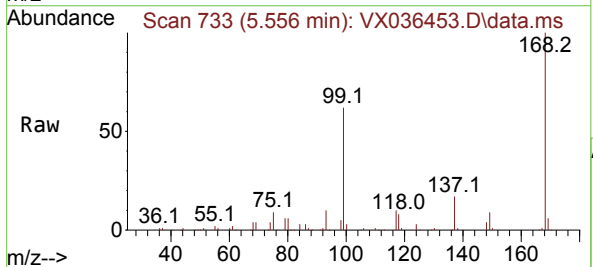
Instrument :
MSVOA_X
ClientSampleId :
7623

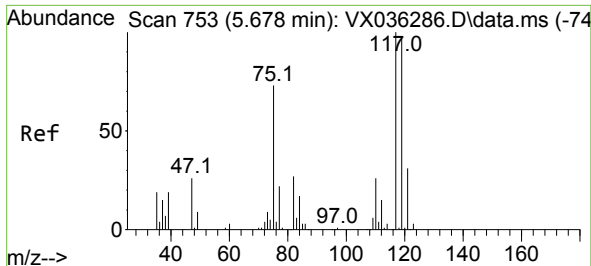
Tgt Ion:113 Resp: 90843
Ion Ratio Lower Upper
113 100
111 100.4 82.9 124.3
192 18.7 13.3 19.9



#36
1,1-Dichloropropene
Concen: 4.966 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.140 min
Lab File: VX036453.D
Acq: 07 Jul 2023 12:18

Tgt Ion: 75 Resp: 14086
Ion Ratio Lower Upper
75 100
110 9.9 17.0 50.9#
77 0.0 24.7 37.1#

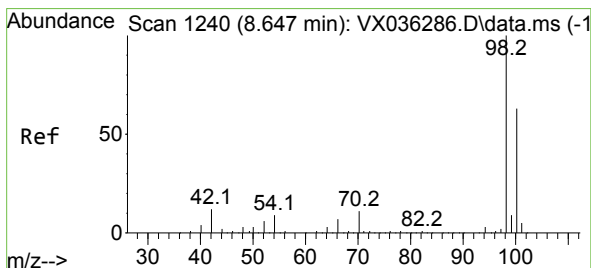
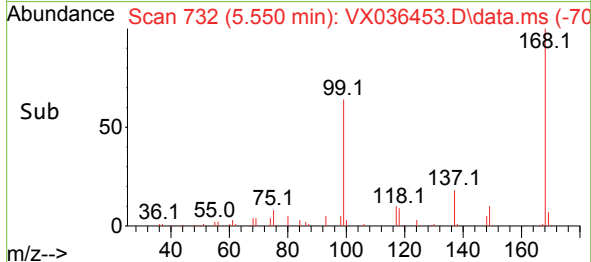
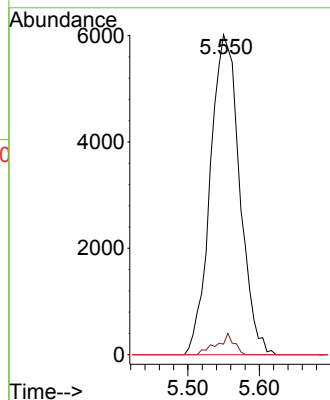
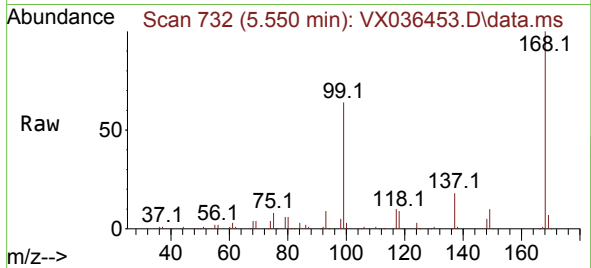




#38
Carbon Tetrachloride
Concen: 6.623 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX036453.D
Acq: 07 Jul 2023 12:18

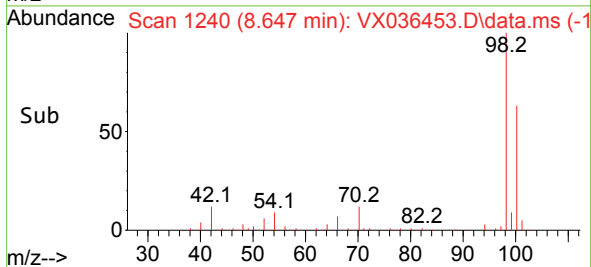
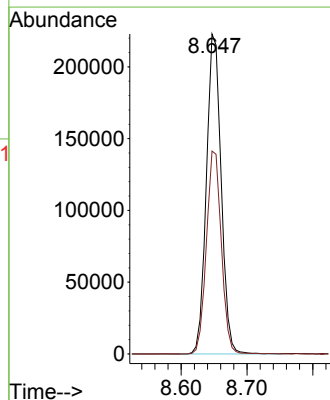
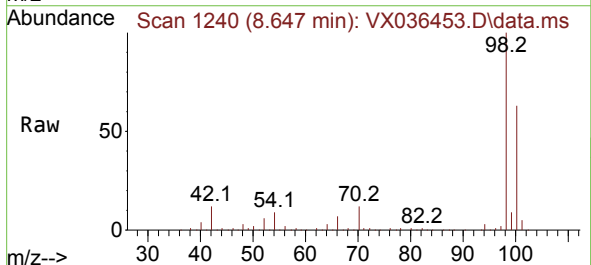
Instrument :
MSVOA_X
ClientSampleId :
7623

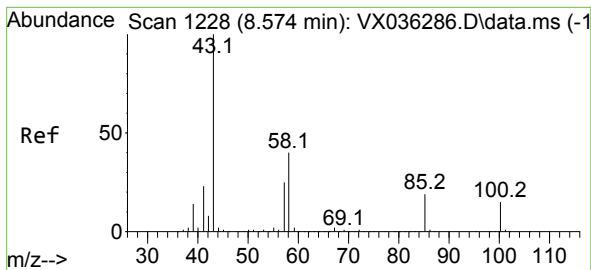
Tgt Ion:117 Resp: 17157
Ion Ratio Lower Upper
117 100
119 3.3 78.2 117.2#
121 0.0 24.4 36.6#



#50
Toluene-d8
Concen: 49.009 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.001 min
Lab File: VX036453.D
Acq: 07 Jul 2023 12:18

Tgt Ion: 98 Resp: 348311
Ion Ratio Lower Upper
98 100
100 64.0 53.1 79.7

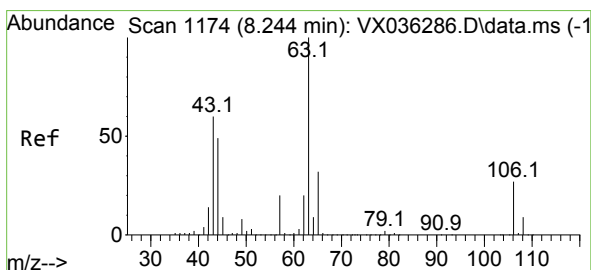
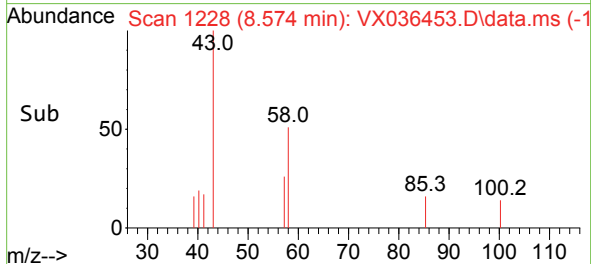
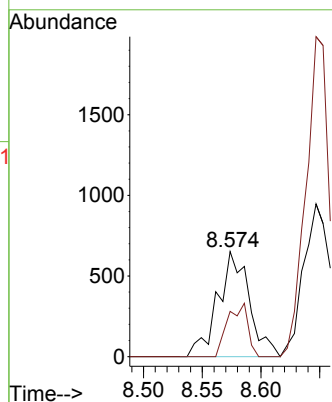
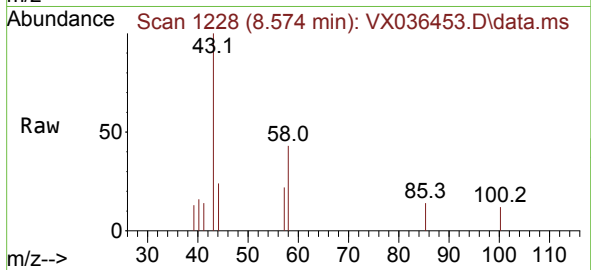




#51
4-Methyl-2-Pentanone
Concen: 0.407 ug/l
RT: 8.574 min Scan# 1175
Delta R.T. 0.001 min
Lab File: VX036453.D
Acq: 07 Jul 2023 12:18

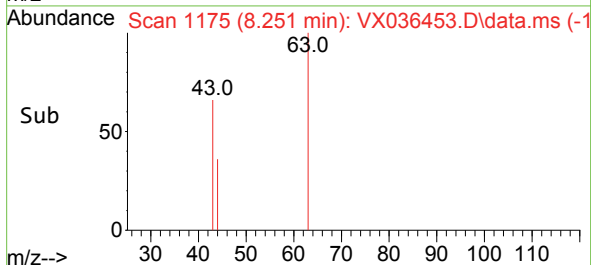
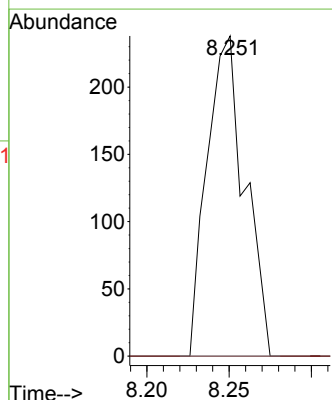
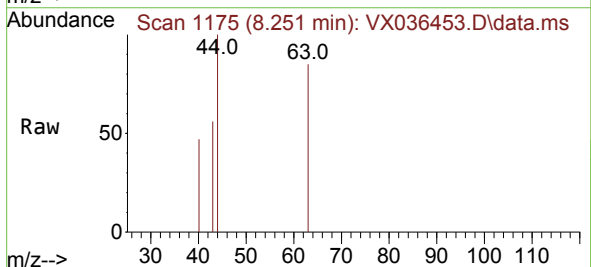
Instrument :
MSVOA_X
ClientSampleId :
7623

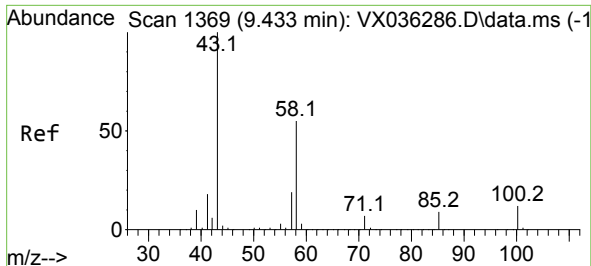
Tgt Ion: 43 Resp: 1210
Ion Ratio Lower Upper
43 100
58 32.6 30.4 45.6



#58
2-Chloroethyl Vinyl ether
Concen: 0.217 ug/l
RT: 8.251 min Scan# 1175
Delta R.T. 0.007 min
Lab File: VX036453.D
Acq: 07 Jul 2023 12:18

Tgt Ion: 63 Resp: 380
Ion Ratio Lower Upper
63 100
106 0.0 22.5 33.7#





#59

2-Hexanone

Concen: 0.372 ug/l

RT: 9.439 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX036453.D

Acq: 07 Jul 2023 12:18

Instrument :

MSVOA_X

ClientSampleId :

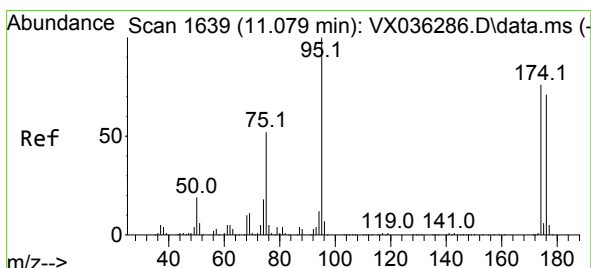
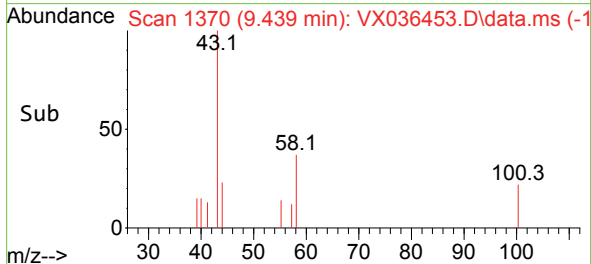
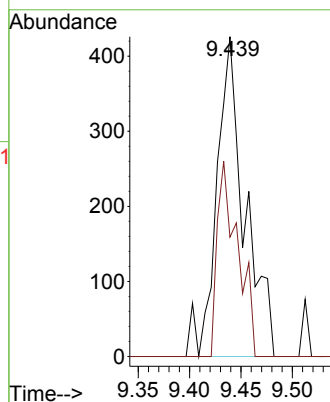
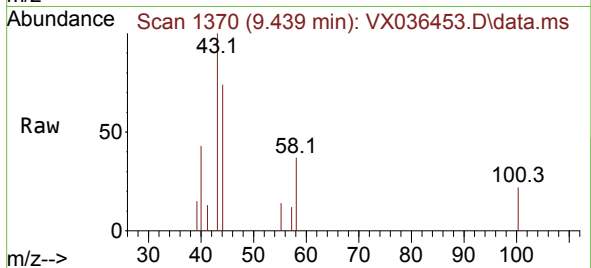
7623

Tgt Ion: 43 Resp: 807

Ion Ratio Lower Upper

43 100

58 44.7 26.2 78.5



#62

4-Bromofluorobenzene

Concen: 48.991 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX036453.D

Acq: 07 Jul 2023 12:18

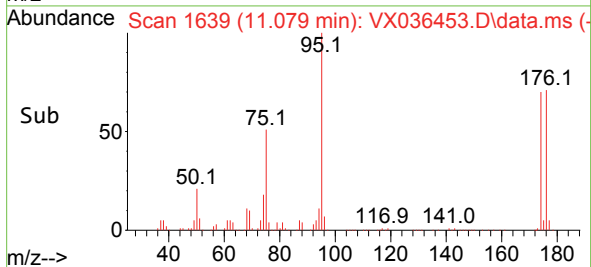
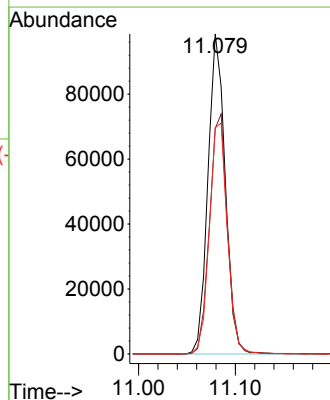
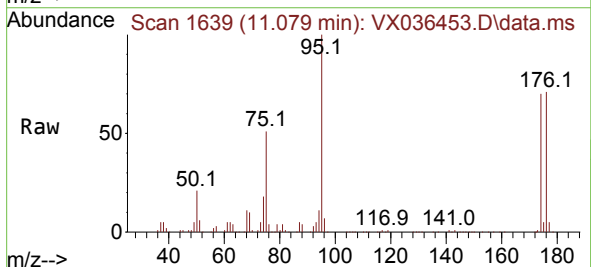
Tgt Ion: 95 Resp: 122643

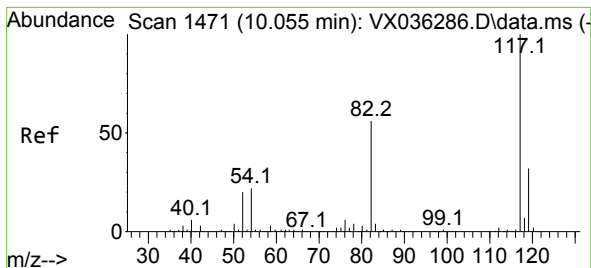
Ion Ratio Lower Upper

95 100

174 77.3 0.0 135.6

176 75.0 0.0 131.0

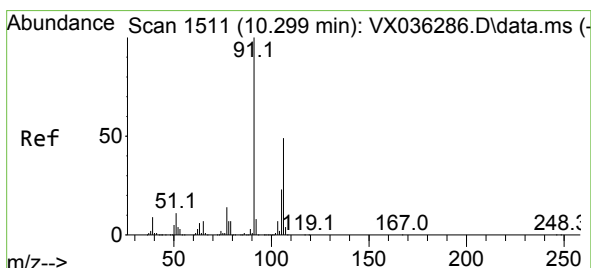
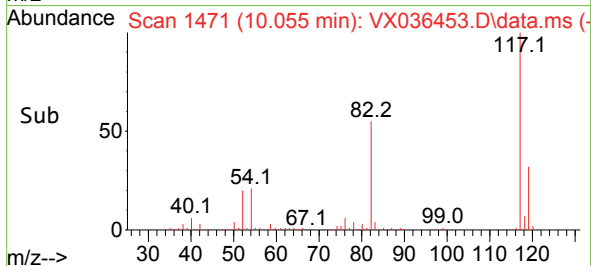
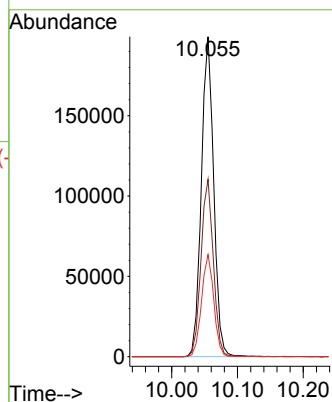
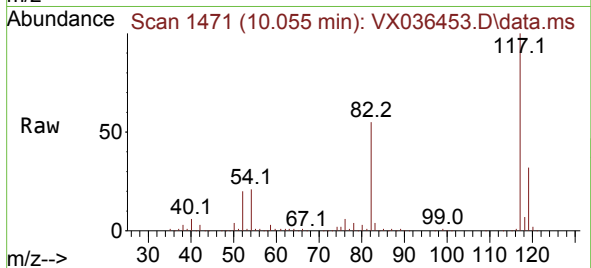




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX036453.D
Acq: 07 Jul 2023 12:18

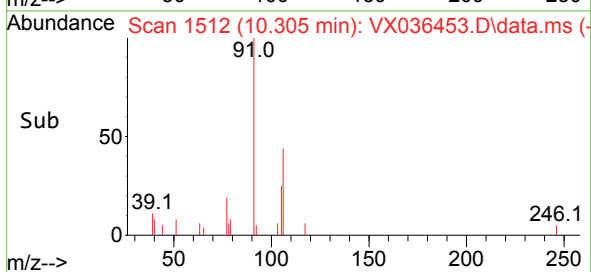
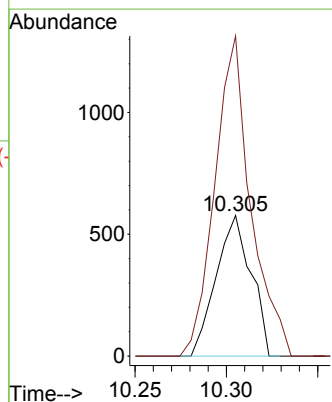
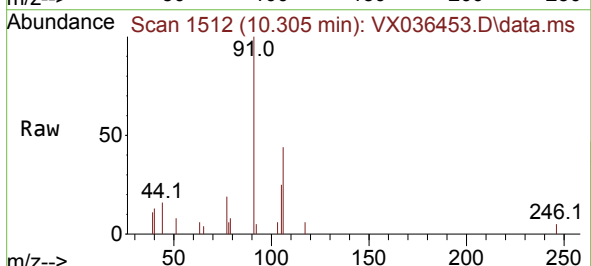
Instrument :
MSVOA_X
ClientSampleId :
7623

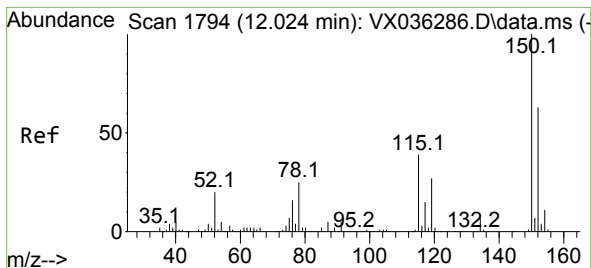
Tgt Ion:117 Resp: 259985
Ion Ratio Lower Upper
117 100
82 55.4 46.2 69.4
119 31.9 25.5 38.3



#68
m/p-Xylenes
Concen: 0.203 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX036453.D
Acq: 07 Jul 2023 12:18

Tgt Ion:106 Resp: 768
Ion Ratio Lower Upper
106 100
91 233.6 165.5 248.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX036453.D

Acq: 07 Jul 2023 12:18

Instrument :

MSVOA_X

ClientSampleId :

7623

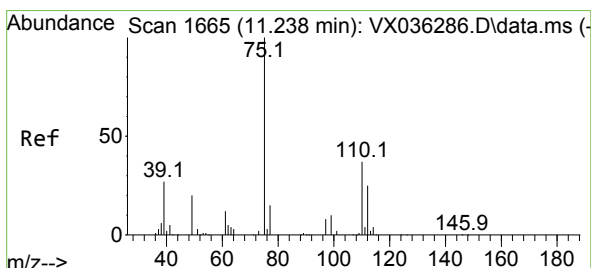
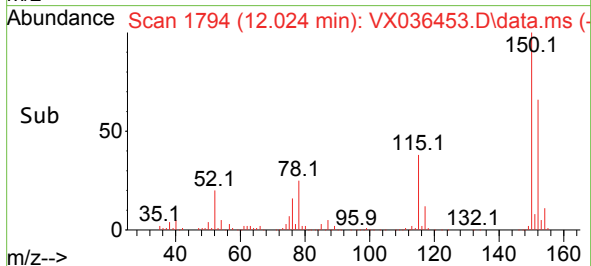
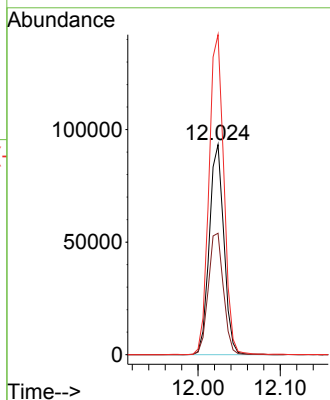
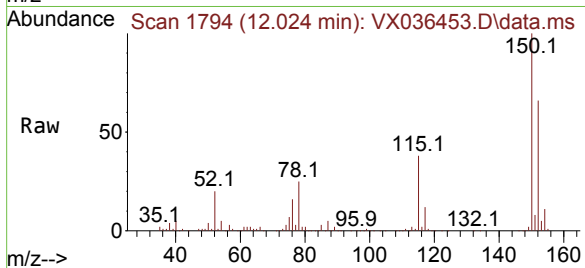
Tgt Ion:152 Resp: 115122

Ion Ratio Lower Upper

152 100

115 59.9 43.3 129.9

150 155.9 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 25.332 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX036453.D

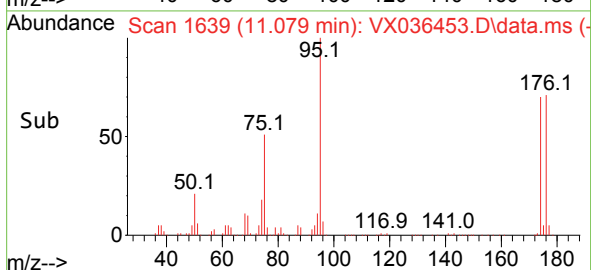
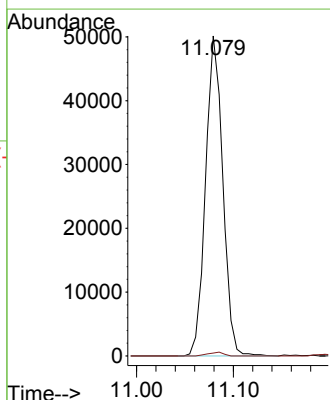
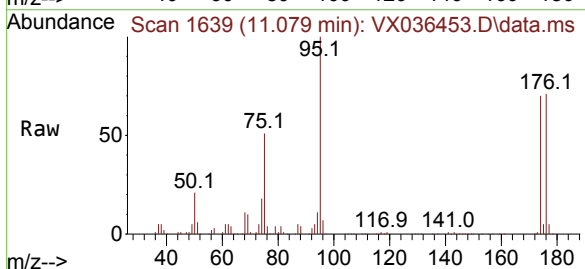
Acq: 07 Jul 2023 12:18

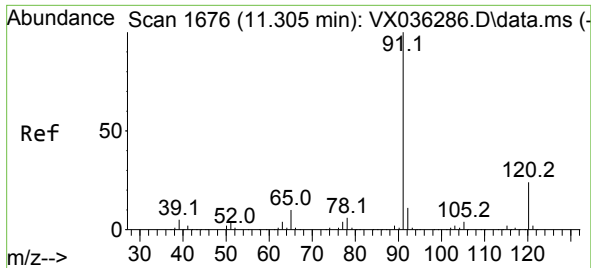
Tgt Ion: 75 Resp: 62206

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#

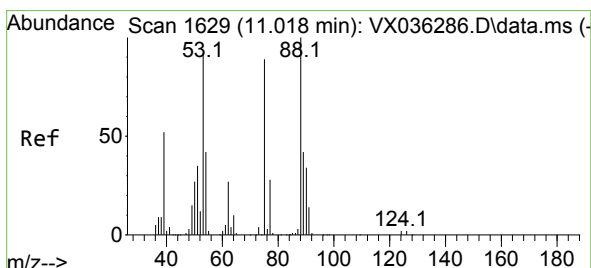
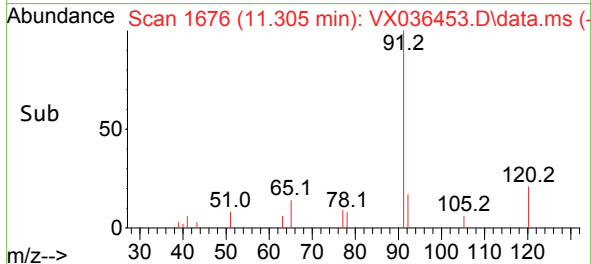
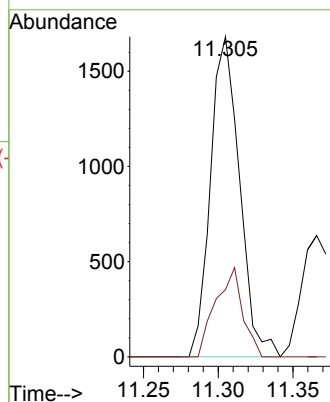
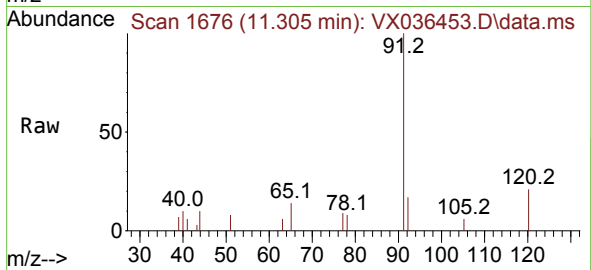




#78
n-propylbenzene
Concen: 0.224 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX036453.D
Acq: 07 Jul 2023 12:18

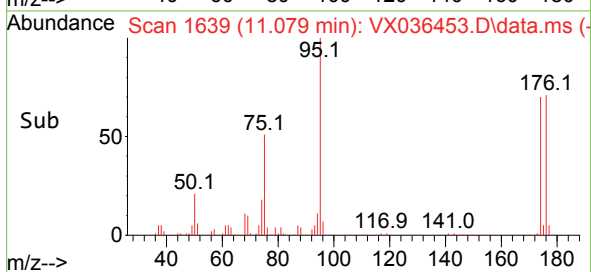
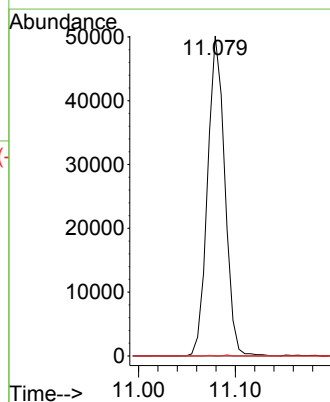
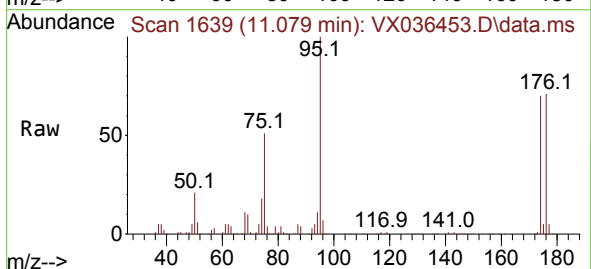
Instrument :
MSVOA_X
ClientSampleId :
7623

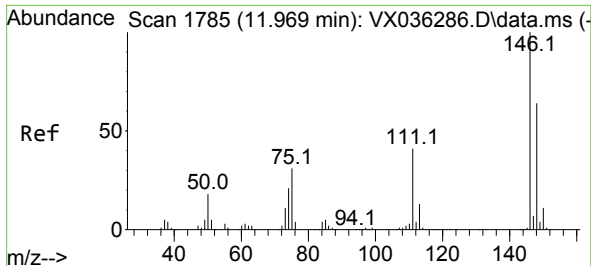
Tgt Ion: 91 Resp: 2274
Ion Ratio Lower Upper
91 100
120 25.9 11.5 34.4



#81
trans-1,4-Dichloro-2-butene
Concen: 82.577 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX036453.D
Acq: 07 Jul 2023 12:18

Tgt Ion: 75 Resp: 62206
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.1 36.9 55.3#





#87

1,3-Dichlorobenzene

Concen: 0.257 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX036453.D

Acq: 07 Jul 2023 12:18

Instrument :

MSVOA_X

ClientSampleId :

7623

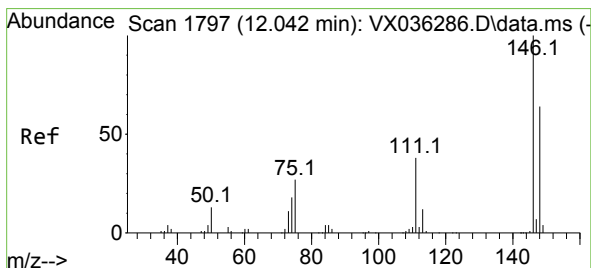
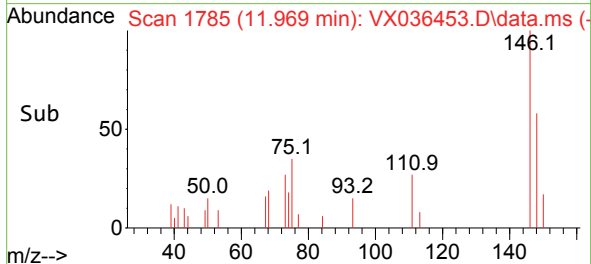
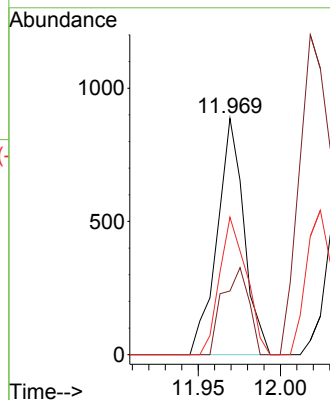
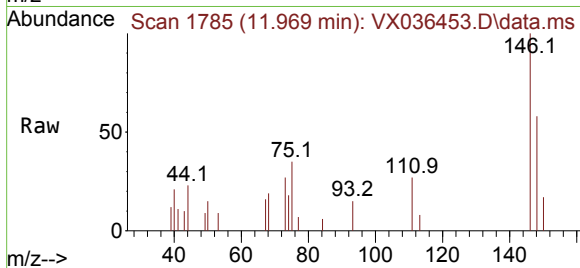
Tgt Ion:146 Resp: 1009

Ion Ratio Lower Upper

146 100

111 35.8 22.1 66.1

148 58.5 31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 0.253 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.073 min

Lab File: VX036453.D

Acq: 07 Jul 2023 12:18

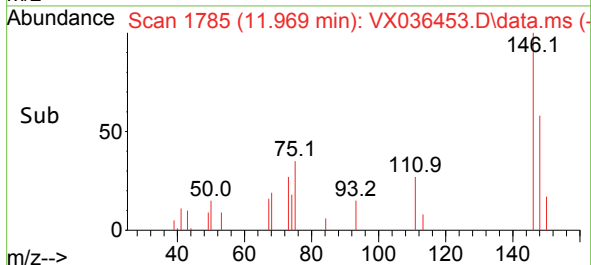
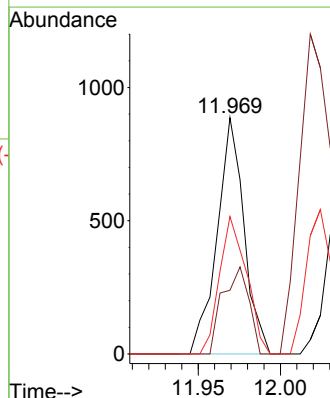
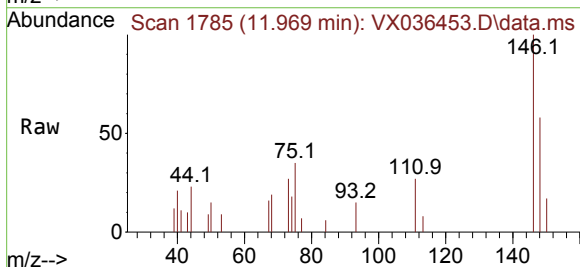
Tgt Ion:146 Resp: 1009

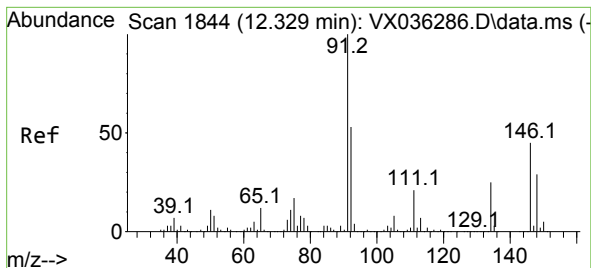
Ion Ratio Lower Upper

146 100

111 35.8 21.3 63.7

148 58.5 31.8 95.4





#89

n-Butylbenzene

Concen: 0.296 ug/l

RT: 12.329 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX036453.D

Acq: 07 Jul 2023 12:18

Instrument :

MSVOA_X

ClientSampleId :

7623

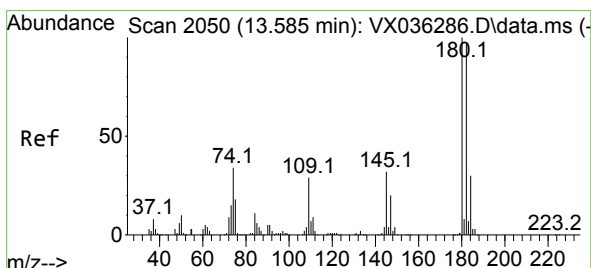
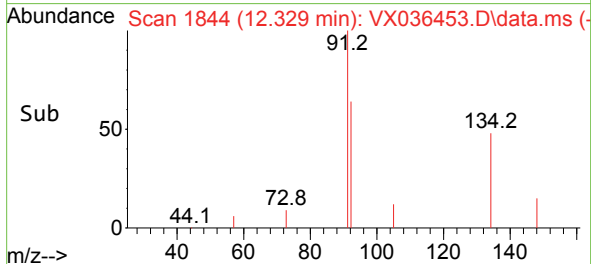
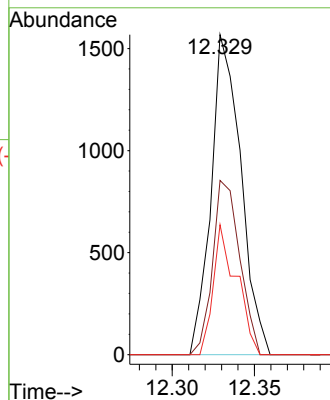
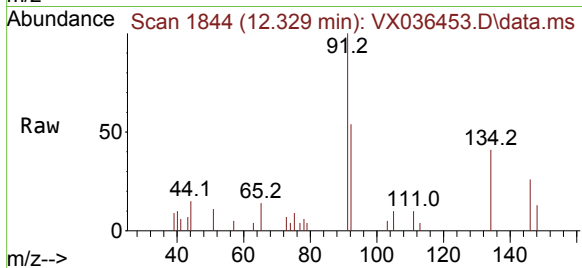
Tgt Ion: 91 Resp: 1973

Ion Ratio Lower Upper

91 100

92 49.7 27.4 82.0

134 31.7 12.6 37.8



#93

1,2,4-Trichlorobenzene

Concen: 0.506 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX036453.D

Acq: 07 Jul 2023 12:18

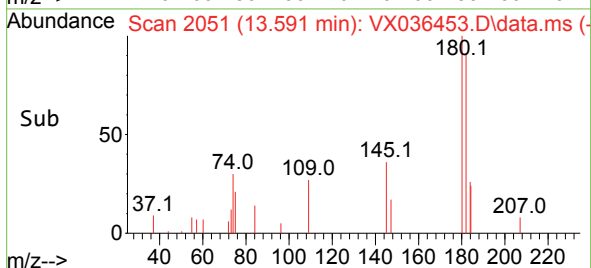
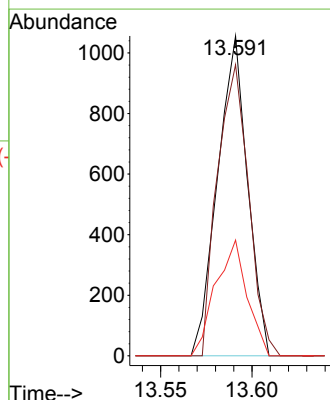
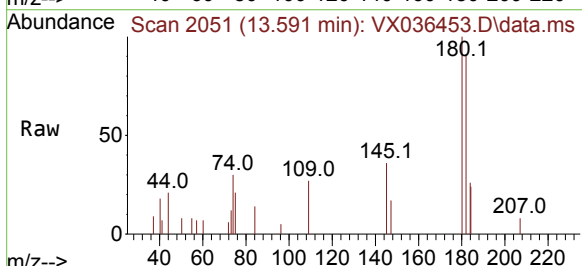
Tgt Ion:180 Resp: 1203

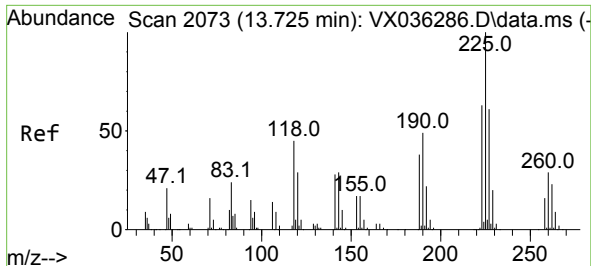
Ion Ratio Lower Upper

180 100

182 94.8 48.3 144.8

145 38.0 18.0 54.0

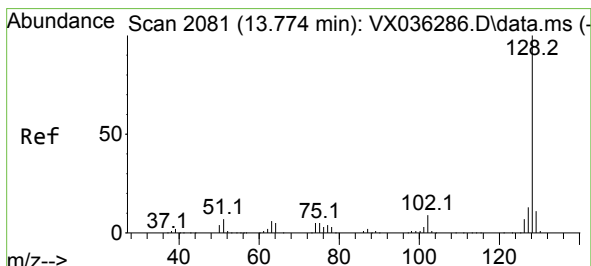
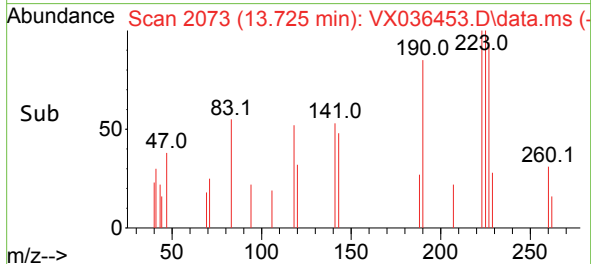
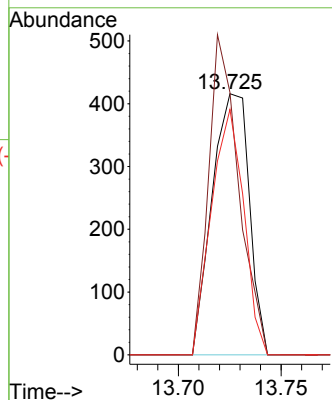
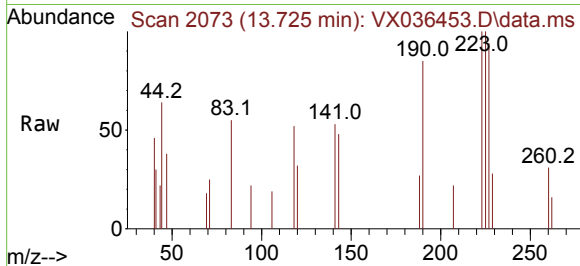




#94
Hexachlorobutadiene
Concen: 0.536 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX036453.D
Acq: 07 Jul 2023 12:18

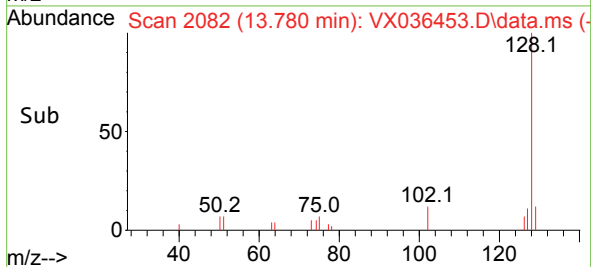
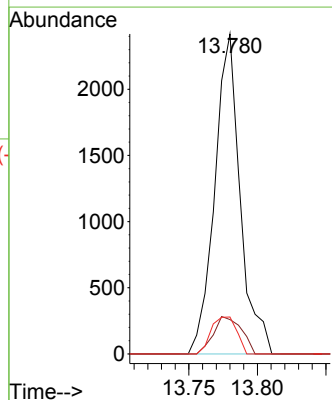
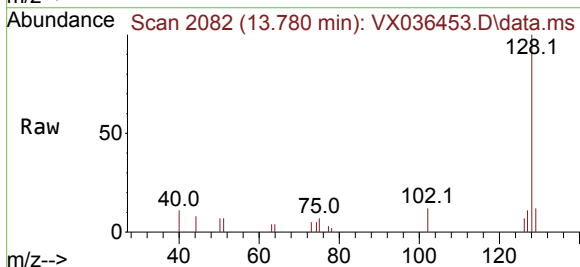
Instrument :
MSVOA_X
ClientSampleId :
7623

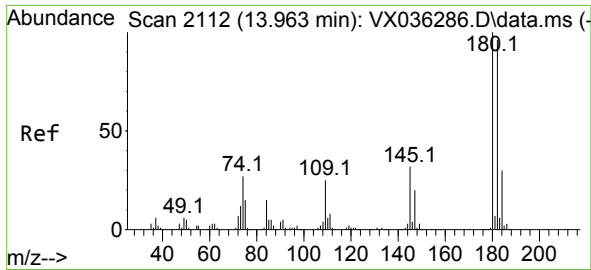
Tgt Ion:225 Resp: 522
Ion Ratio Lower Upper
225 100
223 99.6 31.1 93.2#
227 82.0 32.5 97.5



#95
Naphthalene
Concen: 0.397 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX036453.D
Acq: 07 Jul 2023 12:18

Tgt Ion:128 Resp: 3122
Ion Ratio Lower Upper
128 100
127 12.8 10.3 15.5
129 11.6 8.8 13.2





#96

1,2,3-Trichlorobenzene

Concen: 0.482 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. -0.000 min

Lab File: VX036453.D

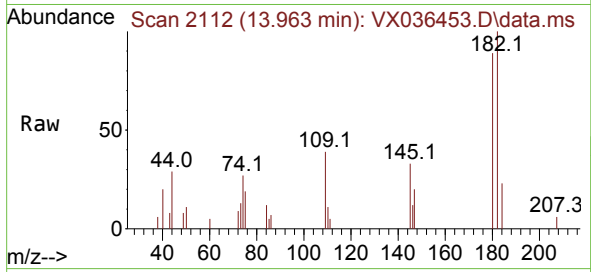
Acq: 07 Jul 2023 12:18

Instrument :

MSVOA_X

ClientSampleId :

7623



Tgt Ion:180 Resp: 1118

Ion Ratio Lower Upper

180 100

182 112.4 46.9 140.6

145 45.2 17.8 53.5

