

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061523\
 Data File : VX036168.D
 Acq On : 15 Jun 2023 14:42
 Operator : JC/MD
 Sample : 03218-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 002-35TH-AVE(JUNE)

Quant Time: Jun 16 07:54:52 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)

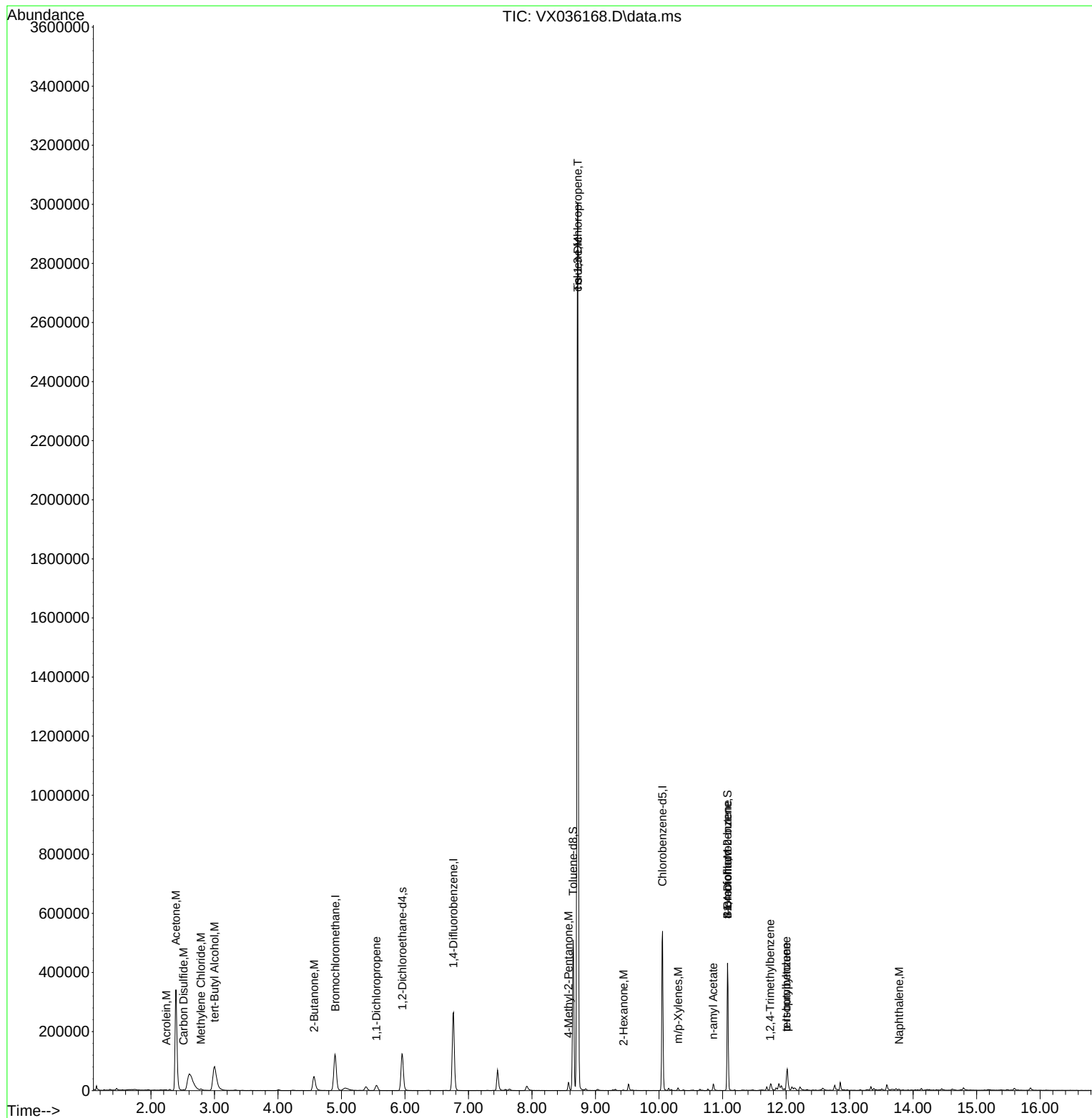
Internal Standards						
1) Bromochloromethane	4.903	128	46311	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	6.763	114	246831	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	224070	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	127280	33.077	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 110.267%#	
60) 4-Bromofluorobenzene	11.079	95	114148	30.360	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 101.200%	
63) Toluene-d8	8.647	98	284838	28.755	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 95.833%	
Target Compounds						
					Qvalue	
13) Acrolein	2.239	56	1192	2.299	ug/l	86
15) Acetone	2.392	58	126614	257.419	ug/l	89
16) Carbon Disulfide	2.514	76	1776	0.353	ug/l	100
18) Methylene Chloride	2.788	84	1765	0.584	ug/l #	90
23) tert-Butyl Alcohol	3.001	59	172959	288.143	ug/l #	100
29) 1,1-Dichloropropene	5.550	75	1634	0.475	ug/l #	41
30) 2-Butanone	4.568	43	91738	40.772	ug/l	98
47) n-amyl Acetate	10.854	43	3037	0.517	ug/l #	1
49) cis-1,3-Dichloropropene	8.720	75	14967	3.435	ug/l #	1
56) Bromoform	11.079	173	878	0.523	ug/l #	1
58) 4-Methyl-2-Pentanone	8.574	43	16366	3.760	ug/l	99
59) 2-Hexanone	9.439	43	1422	0.434	ug/l #	85
62) Toluene	8.720	91	1849087	160.246	ug/l	98
67) m/p-Xylenes	10.299	106	2144	0.439	ug/l	90
77) t-1,4-Dichloro-2-butene	11.079	75	63784	54.958	ug/l #	4
79) tert-butylbenzene	12.006	119	15273	1.494	ug/l	69
80) 1,2,4-Trimethylbenzene	11.750	105	4179	0.393	ug/l	63
82) p-Isopropyltoluene	12.006	119	15273	1.422	ug/l	96
91) Naphthalene	13.780	128	2366	0.203	ug/l	99

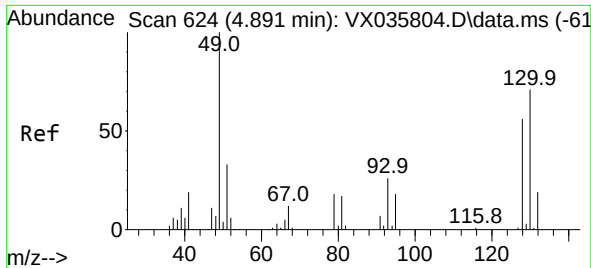
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.903 min Scan# 61

Delta R.T. 0.012 min

Lab File: VX036168.D

Acq: 15 Jun 2023 14:42

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(JUNE)

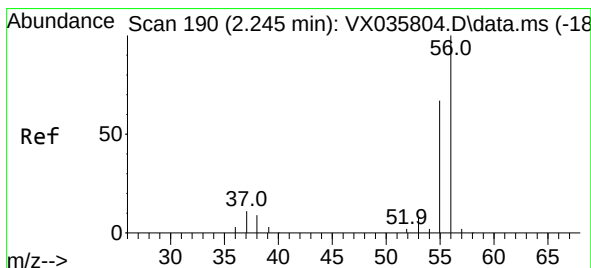
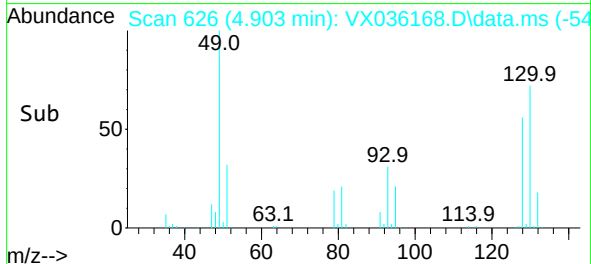
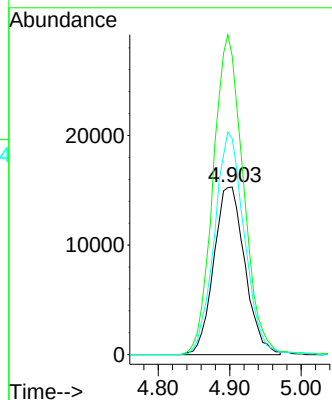
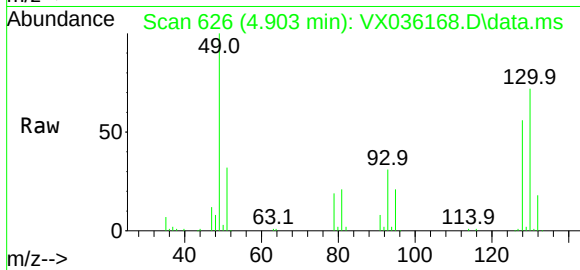
Tgt Ion:128 Resp: 46311

Ion Ratio Lower Upper

128 100

49 184.5 0.0 428.8

130 127.7 0.0 310.8



#13

Acrolein

Concen: 2.299 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.006 min

Lab File: VX036168.D

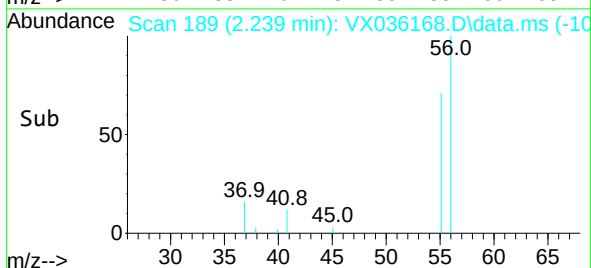
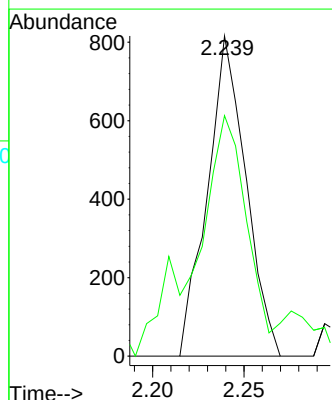
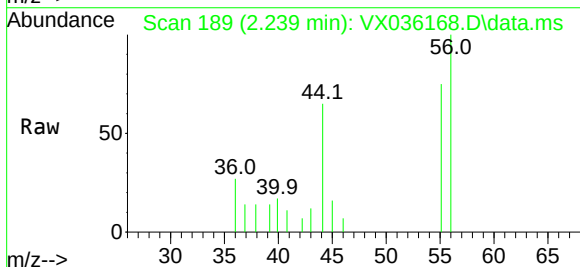
Acq: 15 Jun 2023 14:42

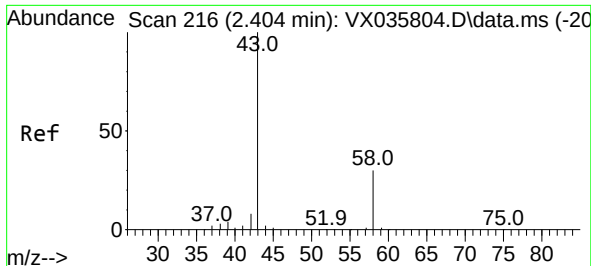
Tgt Ion: 56 Resp: 1192

Ion Ratio Lower Upper

56 100

55 82.6 56.6 85.0





#15

Acetone

Concen: 257.419 ug/l

RT: 2.392 min Scan# 216

Delta R.T. -0.012 min

Lab File: VX036168.D

Acq: 15 Jun 2023 14:42

Instrument :

MSVOA_X

ClientSampleId :

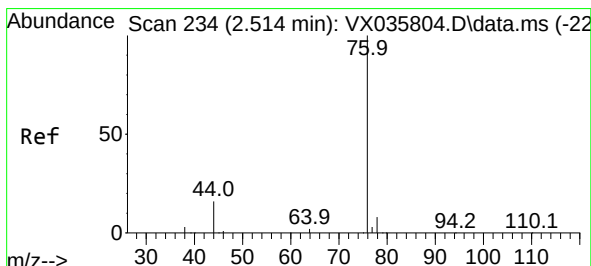
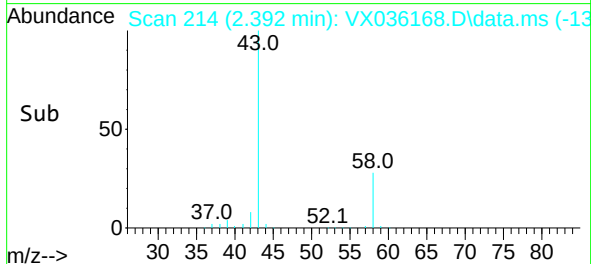
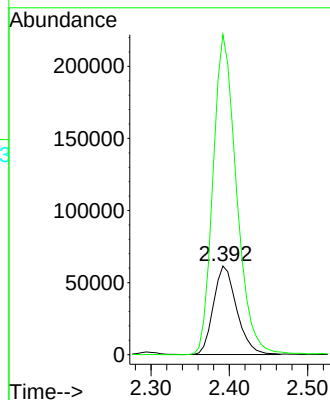
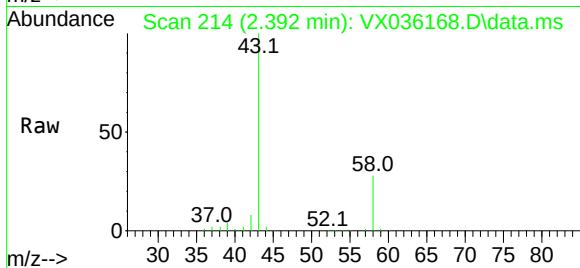
002-35TH-AVE(JUNE)

Tgt Ion: 58 Resp: 126614

Ion Ratio Lower Upper

58 100

43 361.5 270.8 406.2



#16

Carbon Disulfide

Concen: 0.353 ug/l

RT: 2.514 min Scan# 234

Delta R.T. -0.000 min

Lab File: VX036168.D

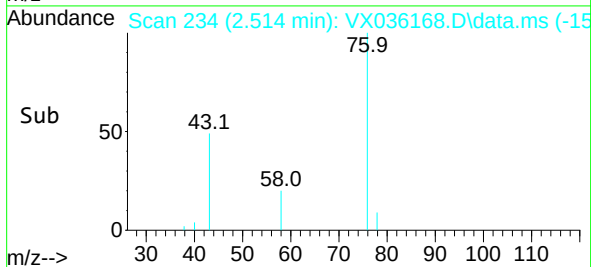
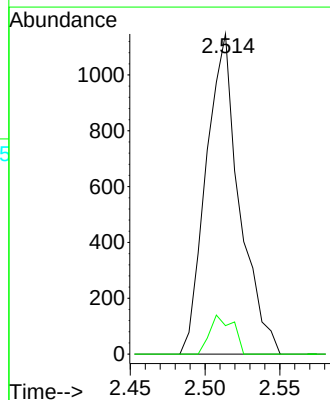
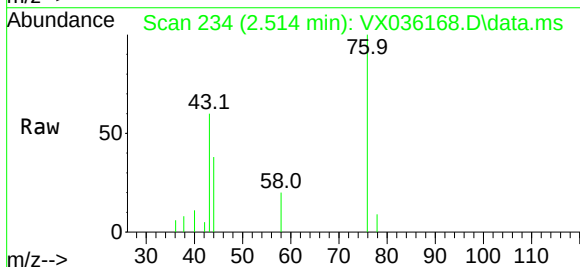
Acq: 15 Jun 2023 14:42

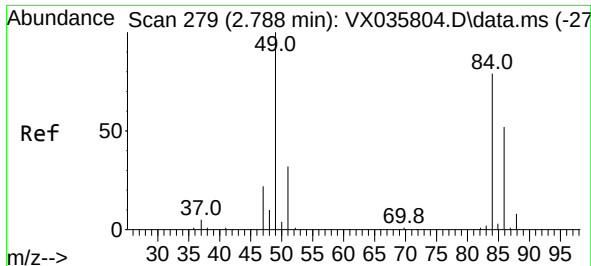
Tgt Ion: 76 Resp: 1776

Ion Ratio Lower Upper

76 100

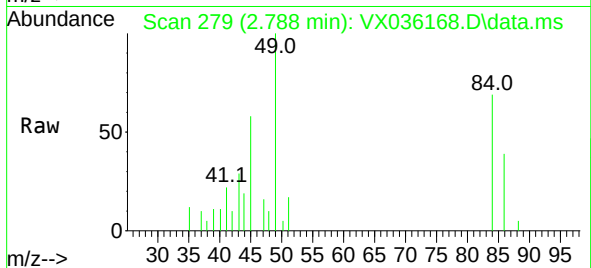
78 8.9 7.0 10.6





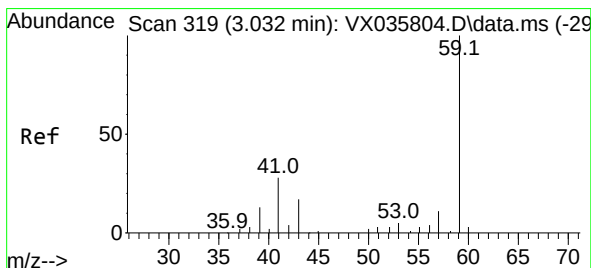
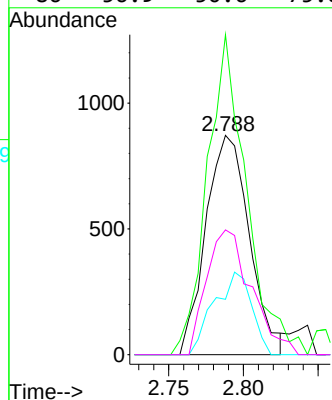
#18
Methylene Chloride
Concen: 0.584 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX036168.D
Acq: 15 Jun 2023 14:42

Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)



Tgt Ion: 84 Resp: 1765

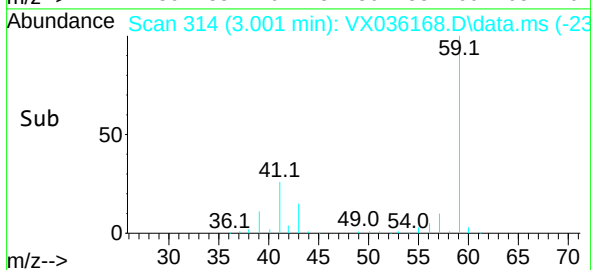
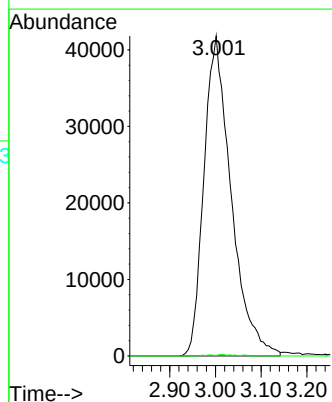
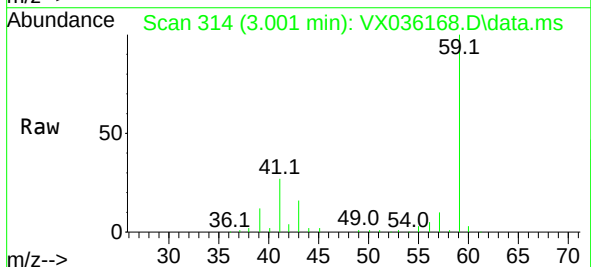
Ion	Ratio	Lower	Upper
84	100		
49	139.4	103.9	155.9
51	25.2	30.6	45.8#
86	56.9	50.6	75.8

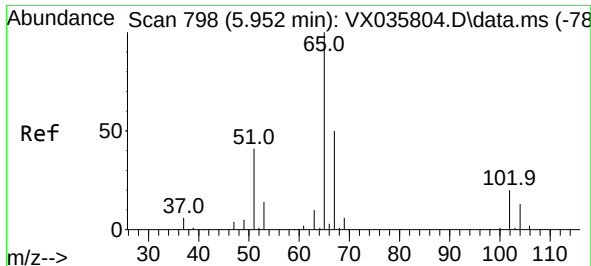


#23
tert-Butyl Alcohol
Concen: 288.143 ug/l
RT: 3.001 min Scan# 314
Delta R.T. -0.031 min
Lab File: VX036168.D
Acq: 15 Jun 2023 14:42

Tgt Ion: 59 Resp: 172959

Ion	Ratio	Lower	Upper
59	100		
52	0.2	0.2	0.4#





#27

1,2-Dichloroethane-d4

Concen: 33.077 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX036168.D

Acq: 15 Jun 2023 14:42

Instrument :

MSVOA_X

ClientSampleId :

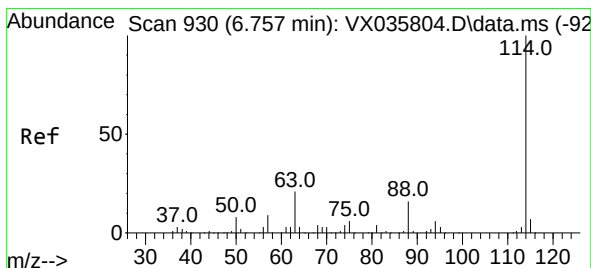
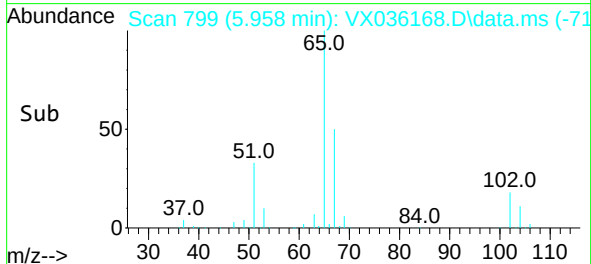
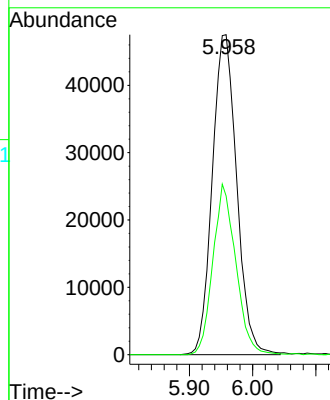
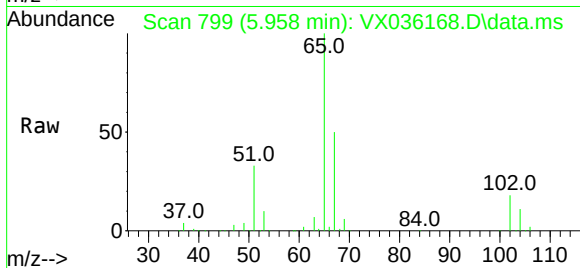
002-35TH-AVE(JUNE)

Tgt Ion: 65 Resp: 127280

Ion Ratio Lower Upper

65 100

67 50.0 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: VX036168.D

Acq: 15 Jun 2023 14:42

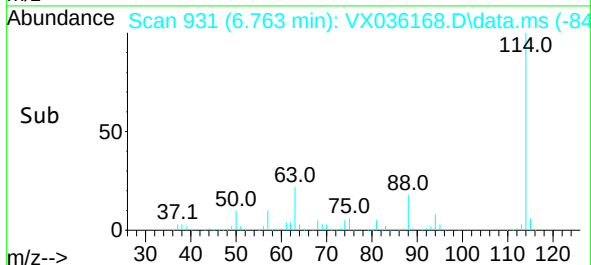
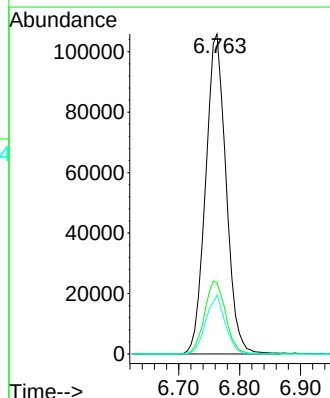
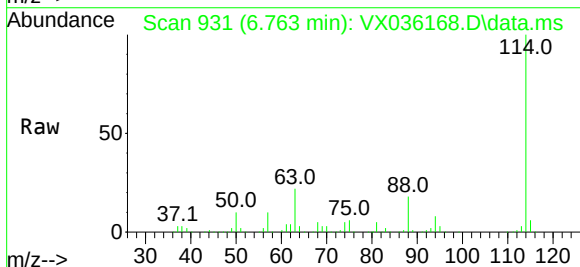
Tgt Ion: 114 Resp: 246831

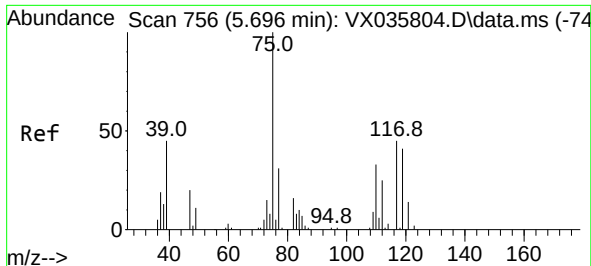
Ion Ratio Lower Upper

114 100

63 23.5 18.0 27.0

88 17.4 13.3 19.9





#29

1,1-Dichloropropene

Concen: 0.475 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.146 min

Lab File: VX036168.D

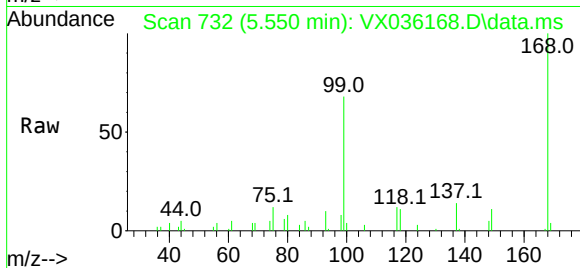
Acq: 15 Jun 2023 14:42

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(JUNE)



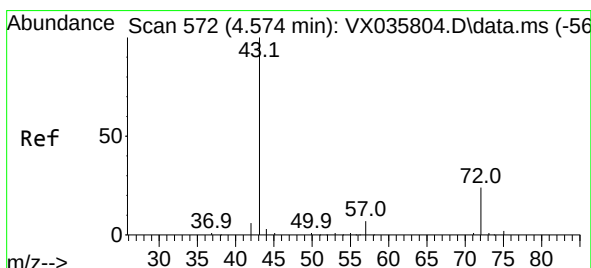
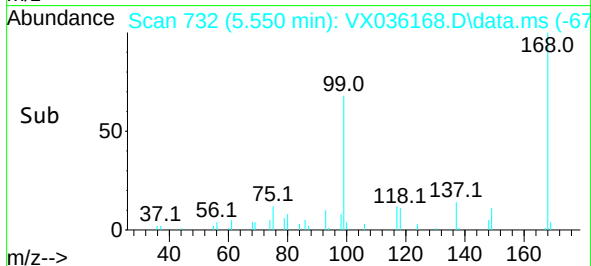
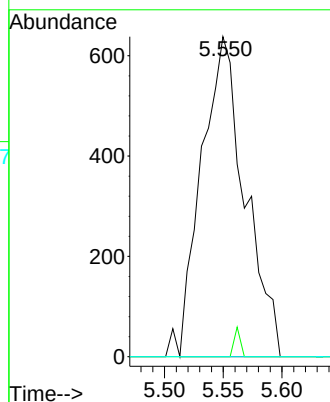
Tgt Ion: 75 Resp: 1634

Ion Ratio Lower Upper

75 100

110 0.0 0.0 71.4

77 0.0 0.0 61.6



#30

2-Butanone

Concen: 40.772 ug/l

RT: 4.568 min Scan# 571

Delta R.T. -0.006 min

Lab File: VX036168.D

Acq: 15 Jun 2023 14:42

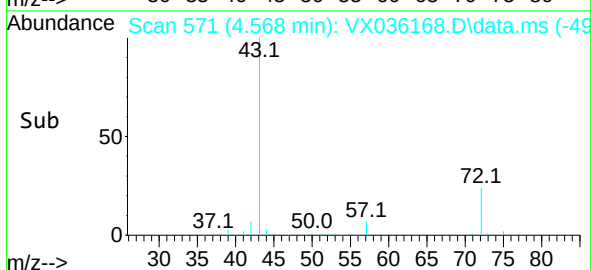
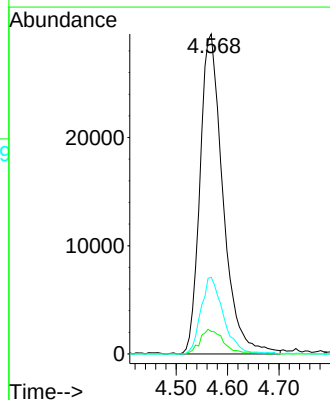
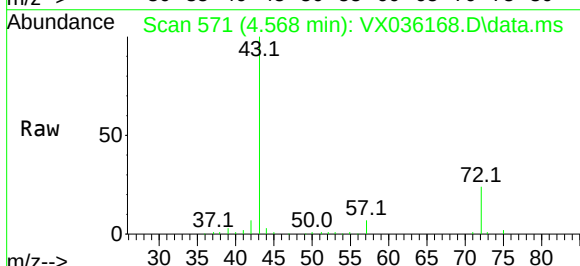
Tgt Ion: 43 Resp: 91738

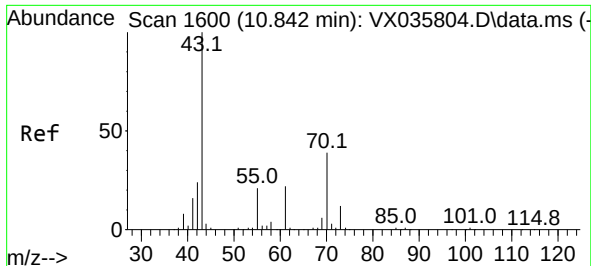
Ion Ratio Lower Upper

43 100

57 7.7 6.3 9.5

72 23.2 19.6 29.4

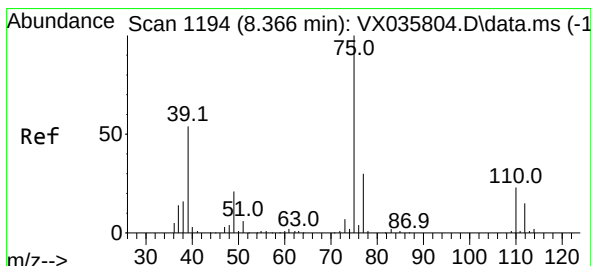
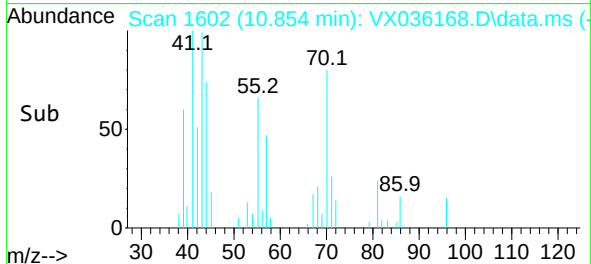
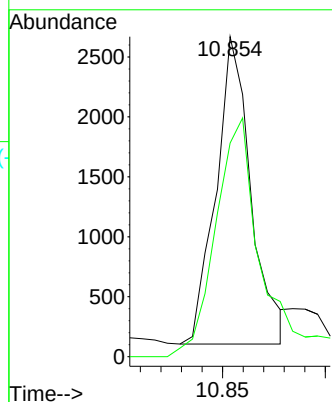
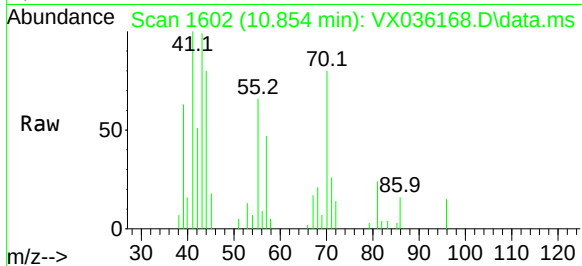




#47
n-amy1 Acetate
Concen: 0.517 ug/l
RT: 10.854 min Scan# 1100
Delta R.T. 0.012 min
Lab File: VX036168.D
Acq: 15 Jun 2023 14:42

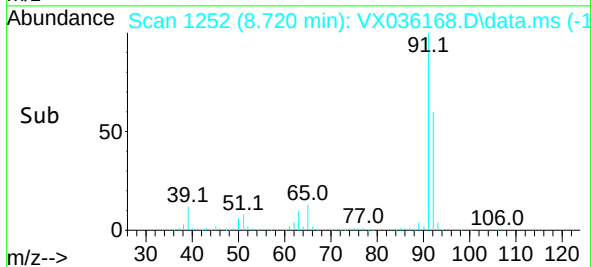
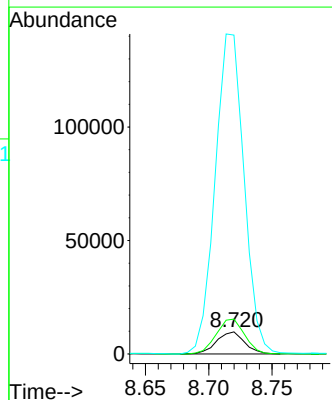
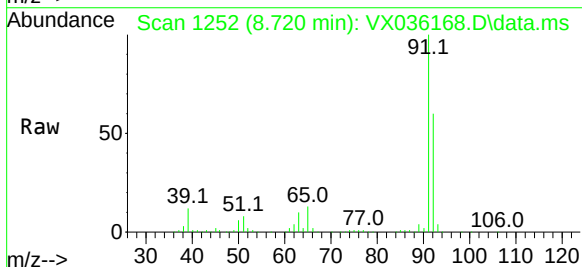
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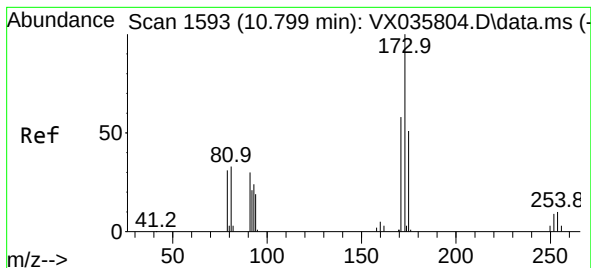
Tgt Ion: 43 Resp: 3037
Ion Ratio Lower Upper
43 100
55 96.3 18.6 28.0#



#49
cis-1,3-Dichloropropene
Concen: 3.435 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.354 min
Lab File: VX036168.D
Acq: 15 Jun 2023 14:42

Tgt Ion: 75 Resp: 14967
Ion Ratio Lower Upper
75 100
77 158.0 24.6 37.0#
39 1445.4 44.2 66.2#





#56

Bromoform

Concen: 0.523 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.280 min

Lab File: VX036168.D

Acq: 15 Jun 2023 14:42

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(JUNE)

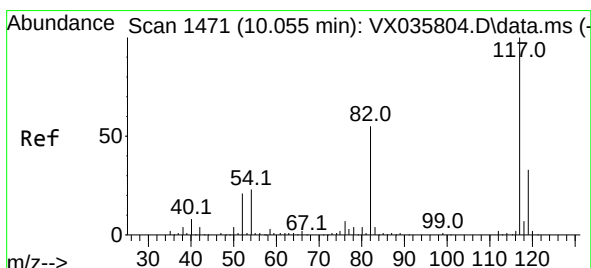
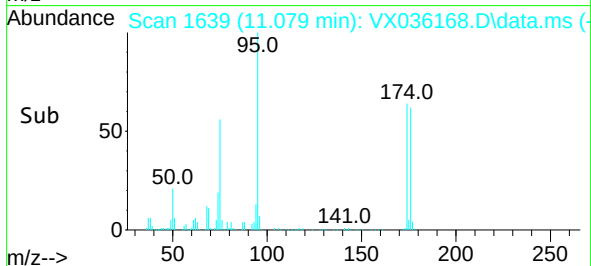
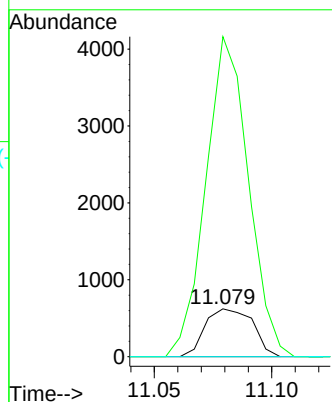
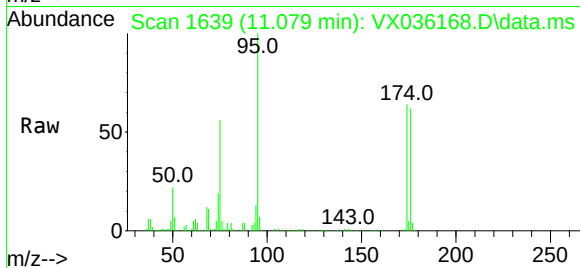
Tgt Ion:173 Resp: 878

Ion Ratio Lower Upper

173 100

175 598.3 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: VX036168.D

Acq: 15 Jun 2023 14:42

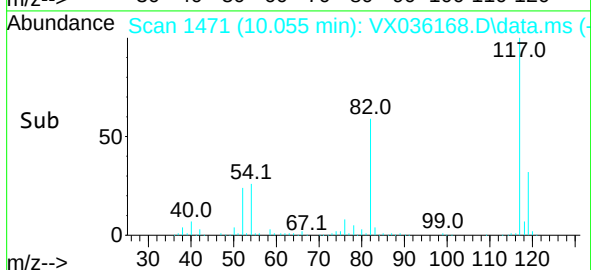
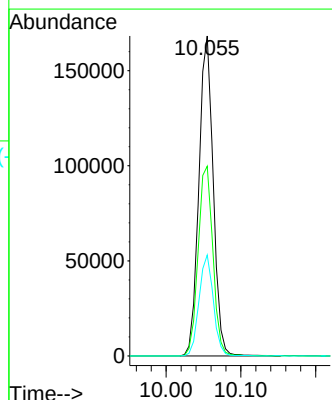
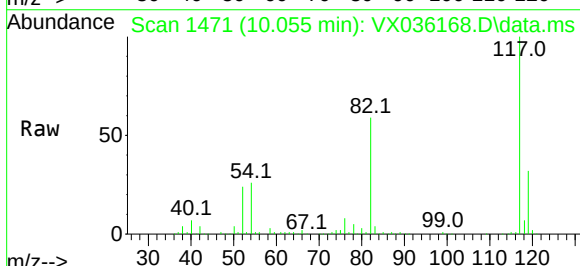
Tgt Ion:117 Resp: 224070

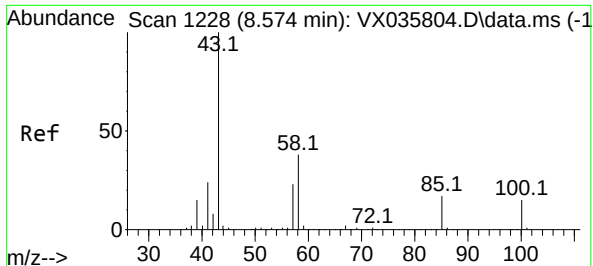
Ion Ratio Lower Upper

117 100

82 60.9 45.8 68.8

119 31.4 25.4 38.0





#58

4-Methyl-2-Pentanone

Concen: 3.760 ug/l

RT: 8.574 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX036168.D

Acq: 15 Jun 2023 14:42

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(JUNE)

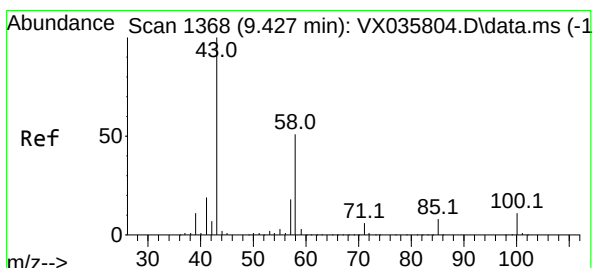
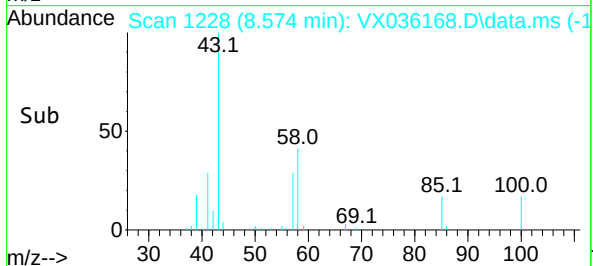
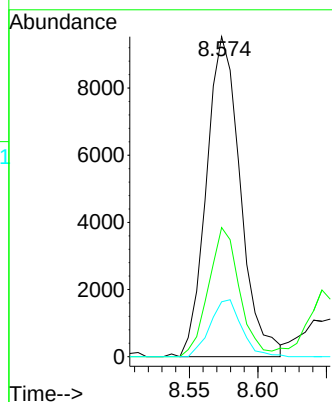
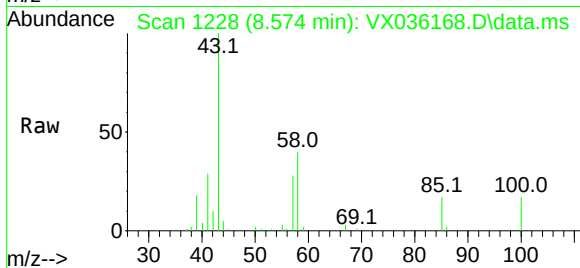
Tgt Ion: 43 Resp: 16366

Ion Ratio Lower Upper

43 100

58 37.0 29.9 44.9

85 16.5 13.2 19.8



#59

2-Hexanone

Concen: 0.434 ug/l

RT: 9.439 min Scan# 1370

Delta R.T. 0.012 min

Lab File: VX036168.D

Acq: 15 Jun 2023 14:42

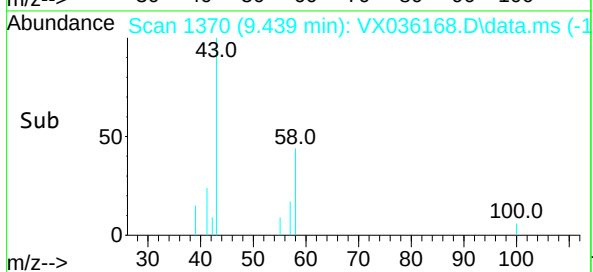
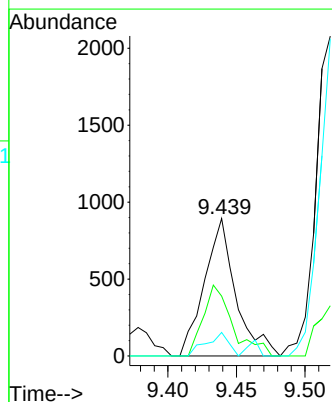
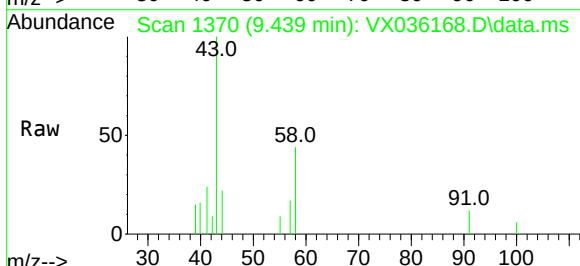
Tgt Ion: 43 Resp: 1422

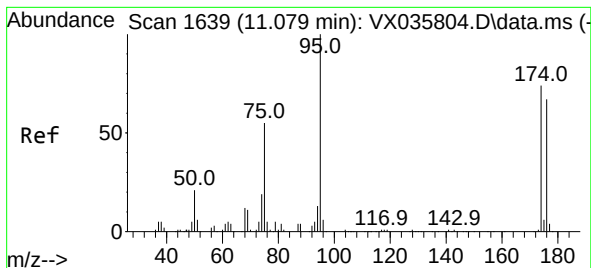
Ion Ratio Lower Upper

43 100

58 41.4 41.7 62.5#

57 12.2 14.7 22.1#

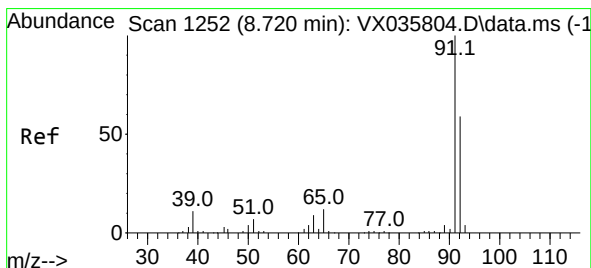
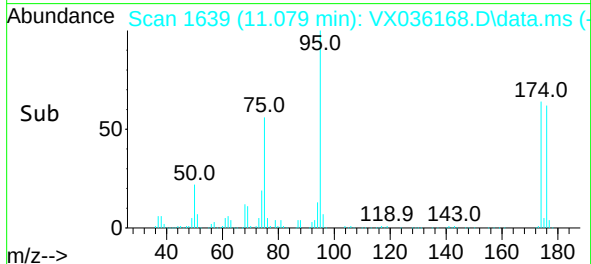
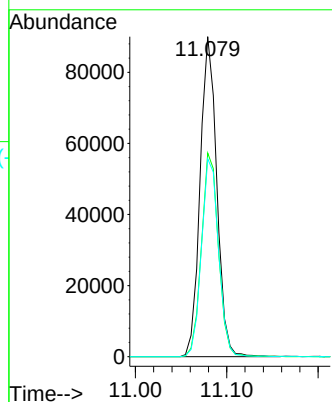
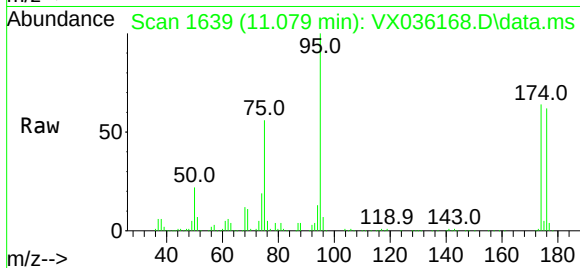




#60
4-Bromofluorobenzene
Concen: 30.360 ug/l
RT: 11.079 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX036168.D
Acq: 15 Jun 2023 14:42

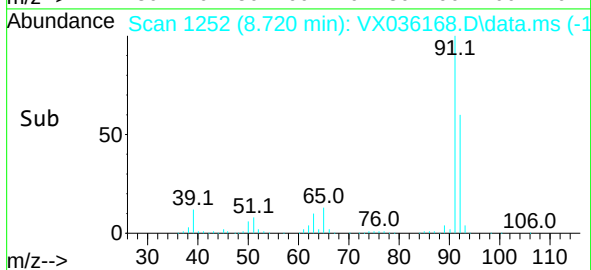
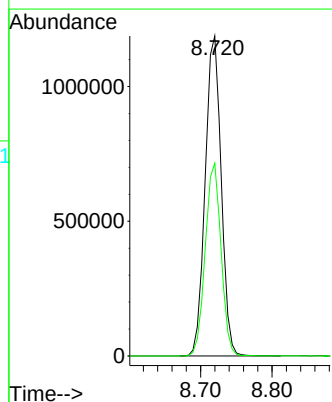
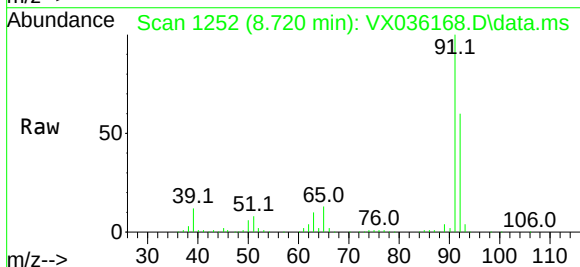
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)

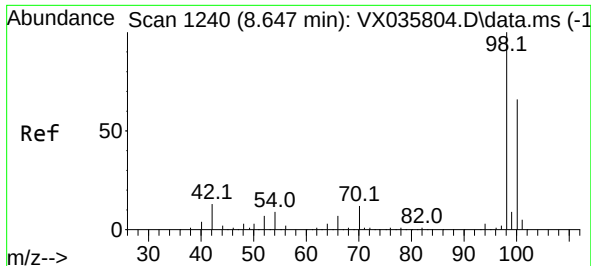
Tgt Ion: 95 Resp: 114148
Ion Ratio Lower Upper
95 100
174 64.4 0.2 0.4#
176 63.2 0.2 0.2#



#62
Toluene
Concen: 160.246 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX036168.D
Acq: 15 Jun 2023 14:42

Tgt Ion: 91 Resp: 1849087
Ion Ratio Lower Upper
91 100
92 59.4 46.5 69.7

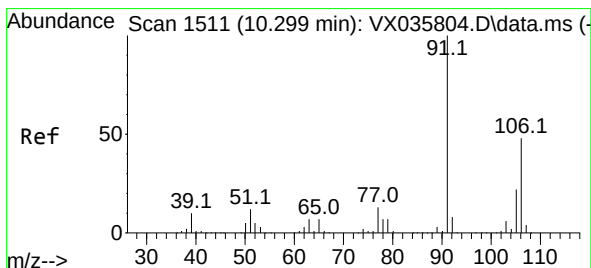
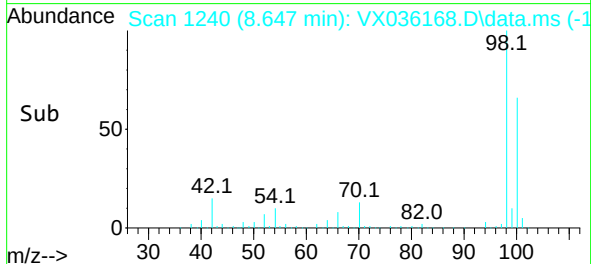
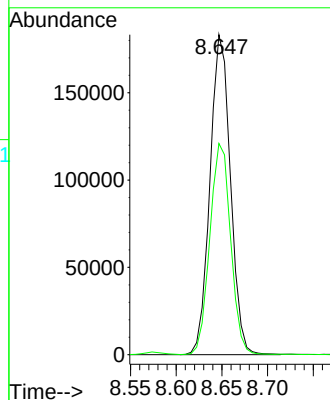
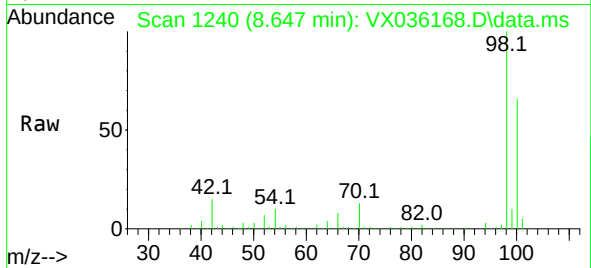




#63
Toluene-d8
Concen: 28.755 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX036168.D
Acq: 15 Jun 2023 14:42

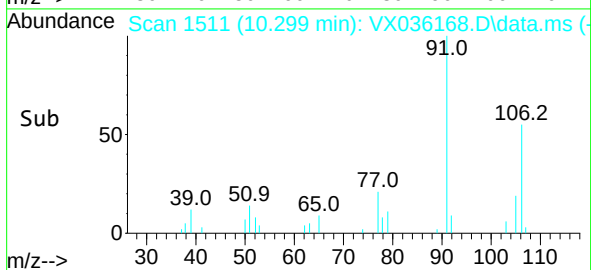
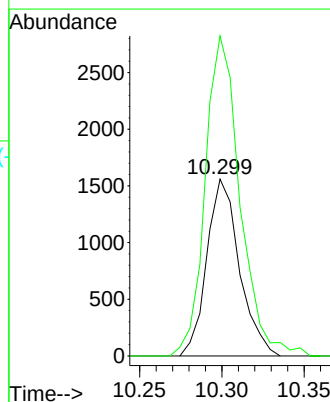
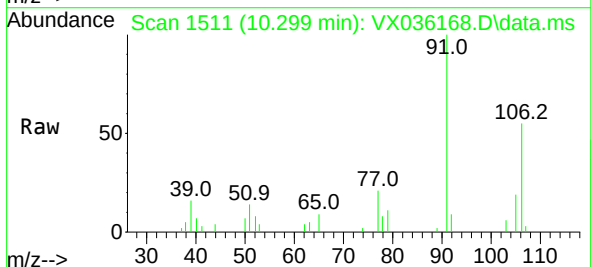
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)

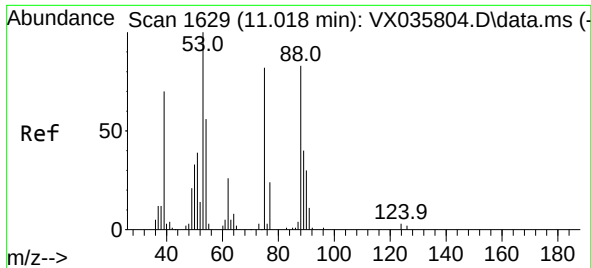
Tgt Ion: 98 Resp: 284838
Ion Ratio Lower Upper
98 100
100 67.2 52.1 78.1



#67
m/p-Xylenes
Concen: 0.439 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX036168.D
Acq: 15 Jun 2023 14:42

Tgt Ion:106 Resp: 2144
Ion Ratio Lower Upper
106 100
91 193.6 167.4 251.2

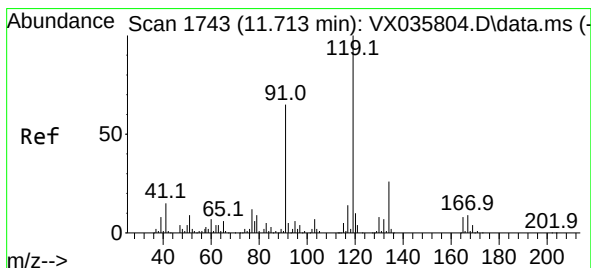
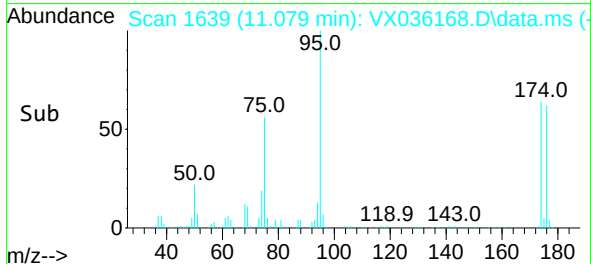
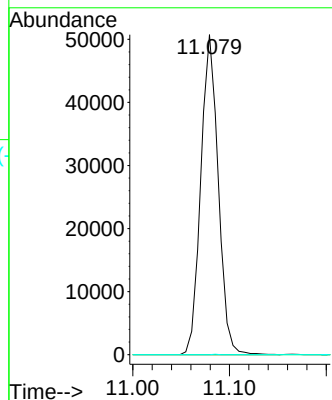
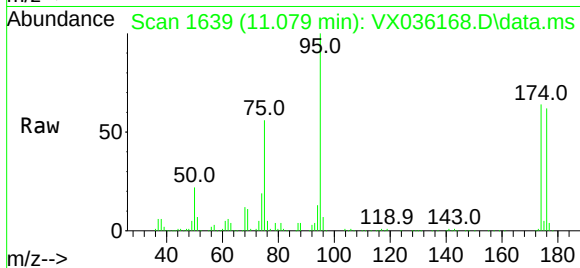




#77
t-1,4-Dichloro-2-butene
Concen: 54.958 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX036168.D
Acq: 15 Jun 2023 14:42

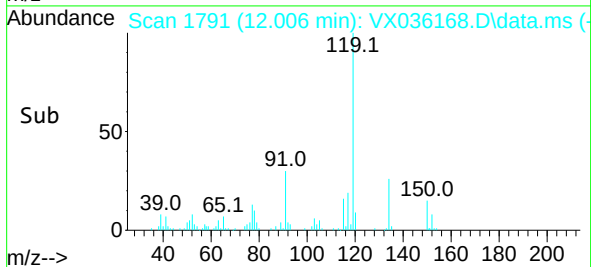
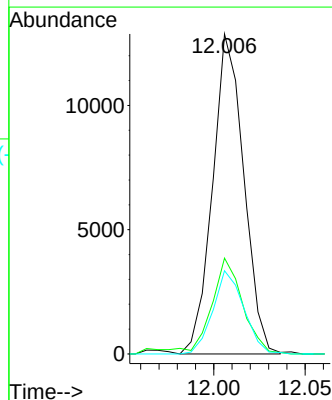
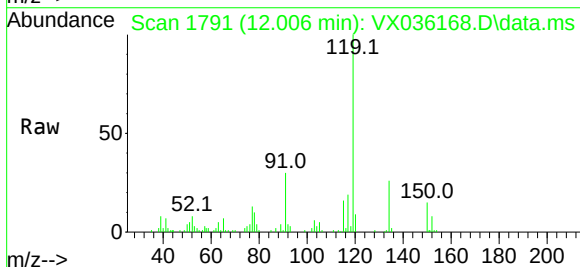
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)

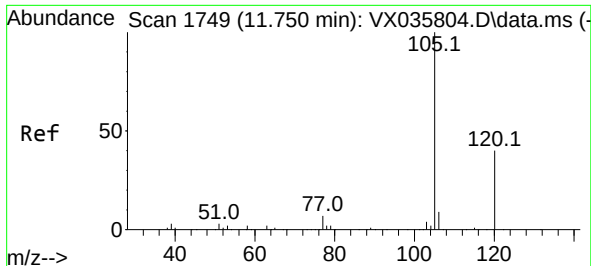
Tgt Ion: 75 Resp: 63784
Ion Ratio Lower Upper
75 100
53 0.0 58.2 174.6#
89 0.0 20.6 61.8#



#79
tert-butylbenzene
Concen: 1.494 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.293 min
Lab File: VX036168.D
Acq: 15 Jun 2023 14:42

Tgt Ion: 119 Resp: 15273
Ion Ratio Lower Upper
119 100
91 29.0 0.0 122.4
134 25.8 0.0 49.2

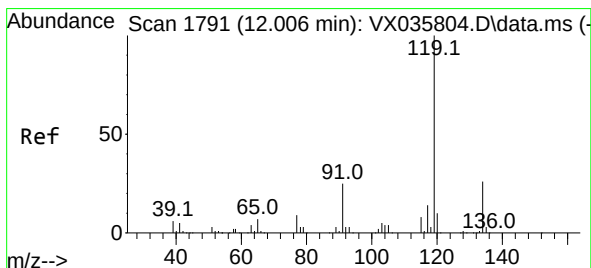
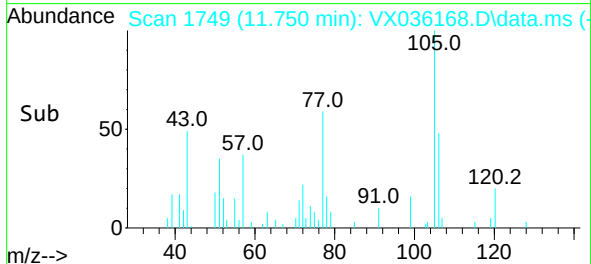
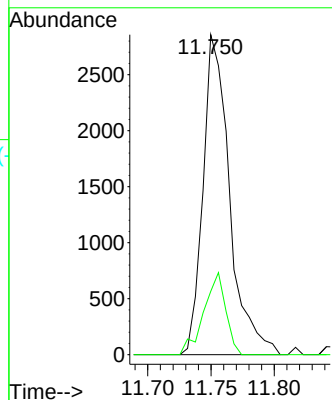
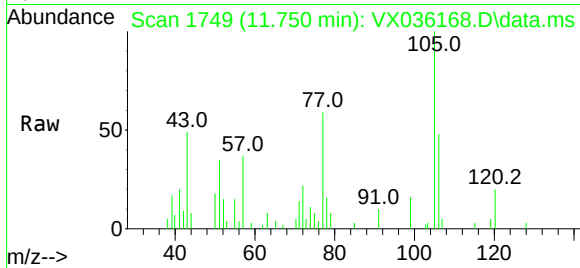




#80
1,2,4-Trimethylbenzene
Concen: 0.393 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX036168.D
Acq: 15 Jun 2023 14:42

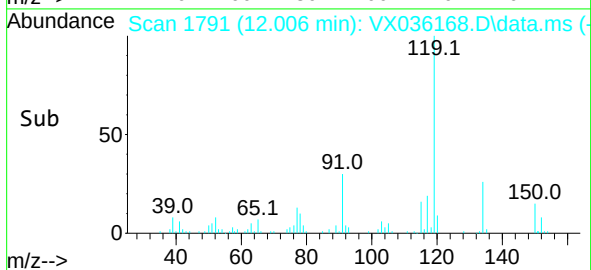
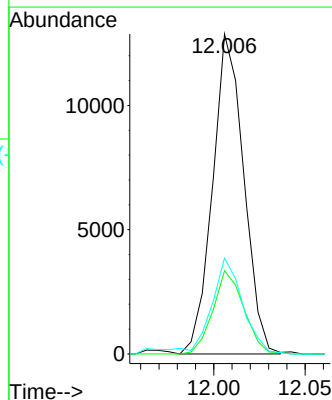
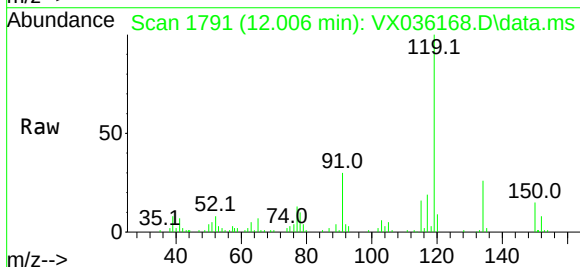
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)

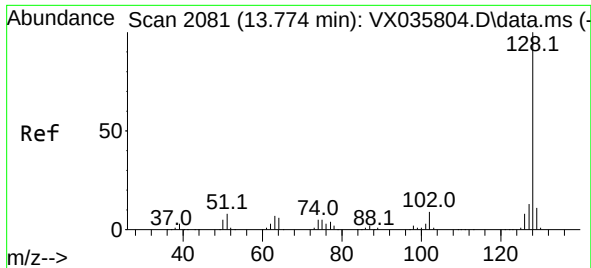
Tgt Ion:105 Resp: 4179
Ion Ratio Lower Upper
105 100
120 21.1 0.0 90.4



#82
p-Isopropyltoluene
Concen: 1.422 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX036168.D
Acq: 15 Jun 2023 14:42

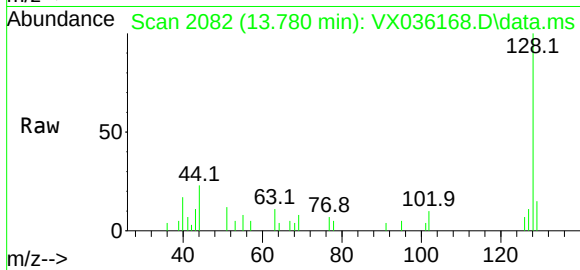
Tgt Ion:119 Resp: 15273
Ion Ratio Lower Upper
119 100
134 25.8 0.0 52.2
91 29.0 0.0 51.0





#91
Naphthalene
Concen: 0.203 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX036168.D
Acq: 15 Jun 2023 14:42

Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)



Tgt Ion:	128	Resp:	2366
Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.3	15.5
129	10.7	8.8	13.2

