

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120623\
 Data File : VX039090.D
 Acq On : 06 Dec 2023 15:41
 Operator : JC/MD
 Sample : 05656-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Dec 07 04:01:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

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

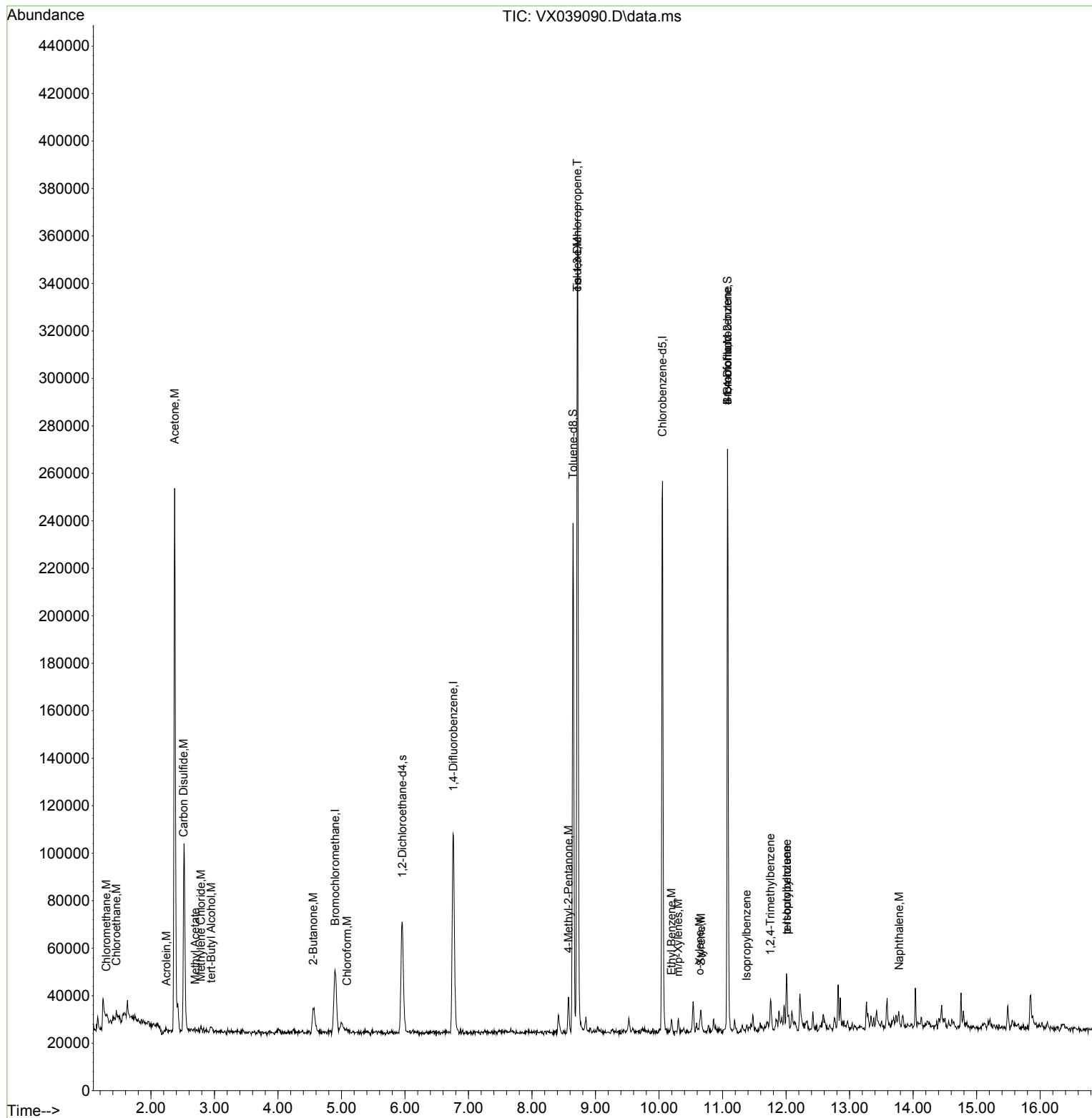
Internal Standards						
1) Bromochloromethane	4.897	128	10584	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	86779	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	104957	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	44615	30.812	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.700%	
60) 4-Bromofluorobenzene	11.079	95	68933	30.070	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 100.233%	
63) Toluene-d8	8.647	98	127032	30.613	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 102.033%	
Target Compounds						Qvalue
3) Chloromethane	1.294	50	383	0.211	ug/l #	40
6) Chloroethane	1.453	64	335	0.314	ug/l #	45
12) Methyl Acetate	2.697	43	1192	0.265	ug/l #	79
13) Acrolein	2.239	56	300	0.763	ug/l #	32
15) Acetone	2.373	58	74936	187.721	ug/l	96
16) Carbon Disulfide	2.514	76	3173	0.728	ug/l #	90
18) Methylene Chloride	2.788	84	792	0.464	ug/l #	84
23) tert-Butyl Alcohol	2.946	59	2960	4.869	ug/l #	100
25) Chloroform	5.086	83	1352	0.445	ug/l #	63
30) 2-Butanone	4.556	43	19903	10.867	ug/l #	74
49) cis-1,3-Dichloropropene	8.714	75	1539	0.507	ug/l #	1
56) Bromoform	11.079	173	357	0.257	ug/l #	1
58) 4-Methyl-2-Pentanone	8.574	43	9026	2.836	ug/l	98
62) Toluene	8.714	91	232053	31.141	ug/l	100
66) Ethyl Benzene	10.195	91	3133	0.369	ug/l	97
67) m/p-Xylenes	10.299	106	1318	0.420	ug/l	92
68) o-Xylene	10.640	106	791	0.260	ug/l	98
69) Styrene	10.659	104	3455	0.769	ug/l	91
70) Isopropylbenzene	11.378	105	1957	0.241	ug/l	93
77) t-1,4-Dichloro-2-butene	11.079	75	34819	34.232	ug/l #	12
79) tert-butylbenzene	12.012	119	10271	1.543	ug/l	64
80) 1,2,4-Trimethylbenzene	11.756	105	3615	0.516	ug/l	92
82) p-Isopropyltoluene	12.012	119	10271	1.440	ug/l	99
91) Naphthalene	13.780	128	3018	0.363	ug/l #	94

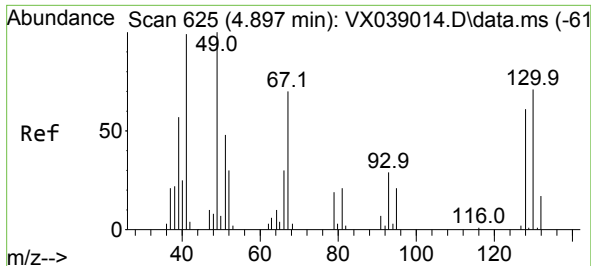
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Nov 27 03:22:25 2023
Response via : Initial Calibration

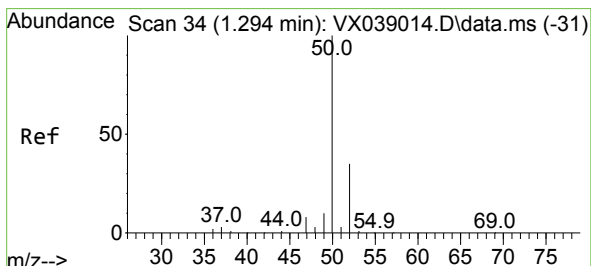
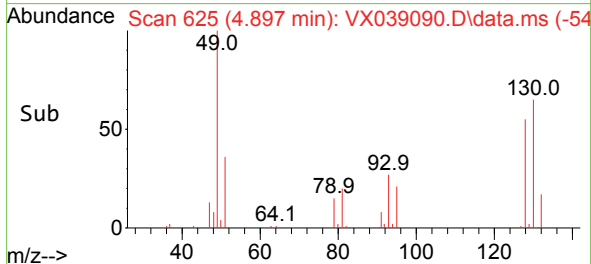
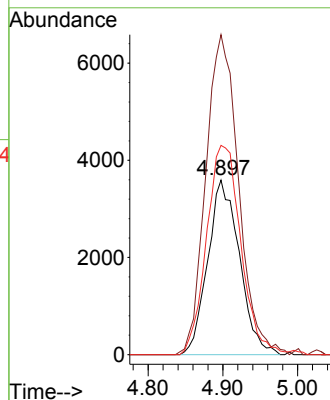
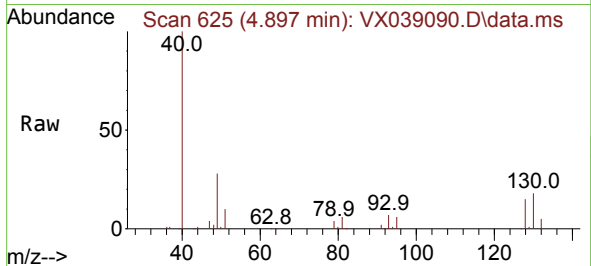




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

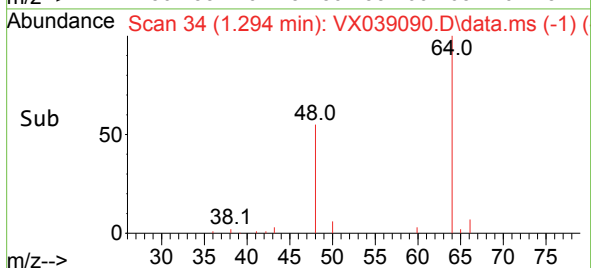
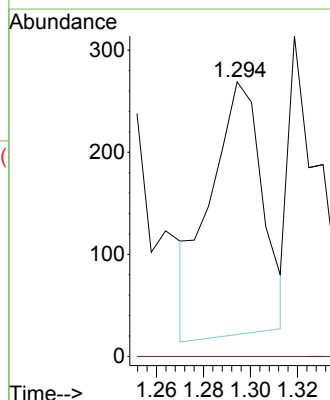
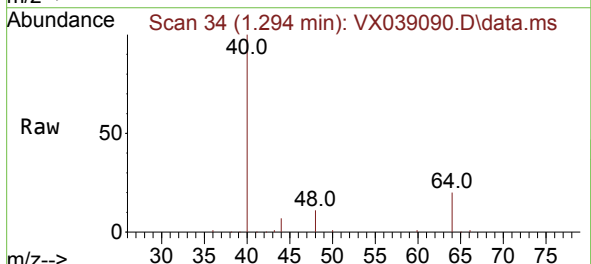
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ClientSampleId :
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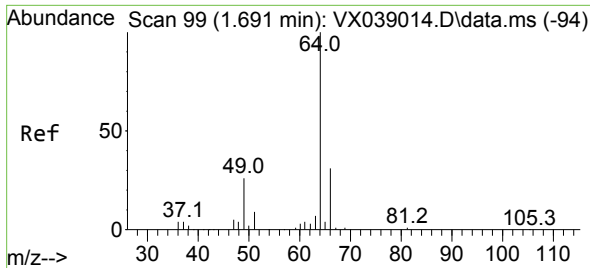
Tgt Ion:128 Resp: 10584
Ion Ratio Lower Upper
128 100
49 189.5 0.0 444.0
130 130.0 0.0 297.8



#3
Chloromethane
Concen: 0.211 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

Tgt Ion: 50 Resp: 383
Ion Ratio Lower Upper
50 100
52 0.0 27.8 41.8#

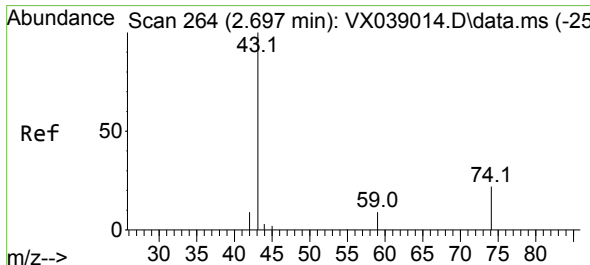
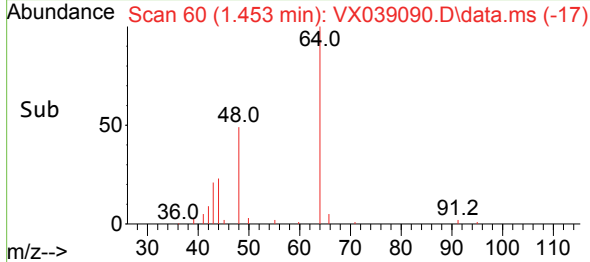
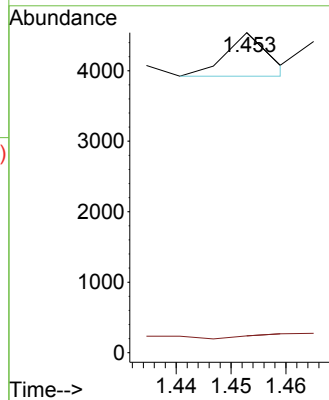
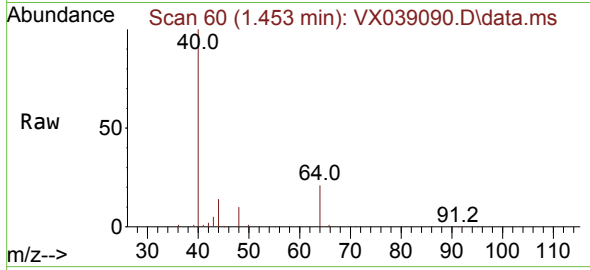




#6
Chloroethane
Concen: 0.314 ug/l
RT: 1.453 min Scan# 60
Delta R.T. -0.238 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

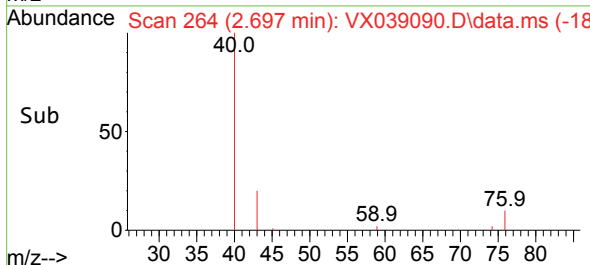
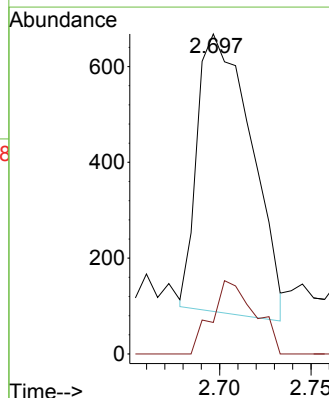
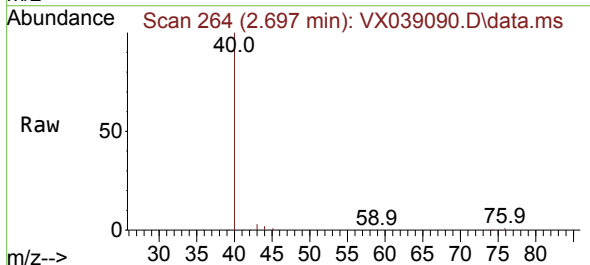
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ClientSampleId :
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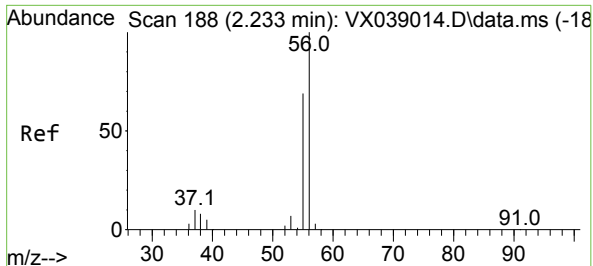
Tgt Ion: 64 Resp: 335
Ion Ratio Lower Upper
64 100
66 0.8 25.0 37.6#



#12
Methyl Acetate
Concen: 0.265 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.000 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

Tgt Ion: 43 Resp: 1192
Ion Ratio Lower Upper
43 100
74 12.0 17.8 26.6#

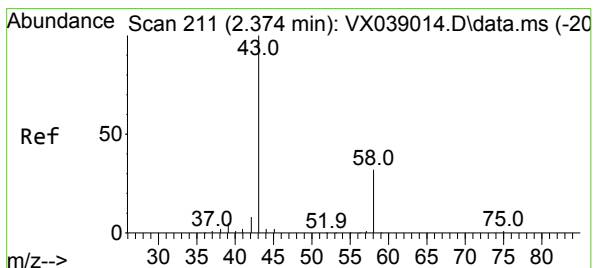
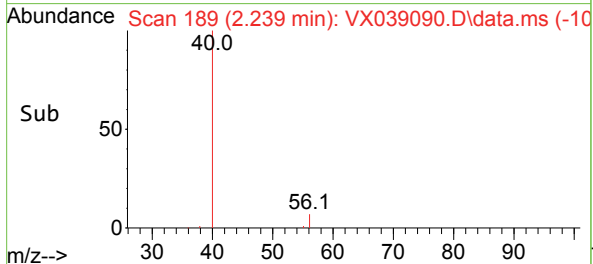
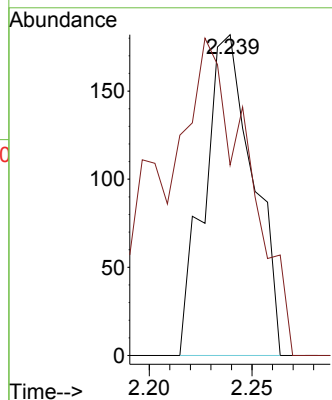
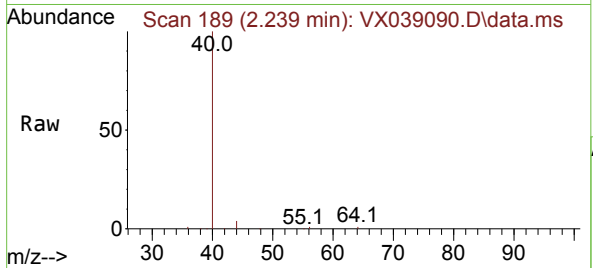




#13
Acrolein
Concen: 0.763 ug/l
RT: 2.239 min Scan# 188
Delta R.T. 0.006 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

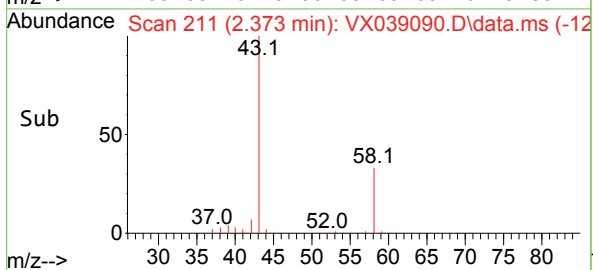
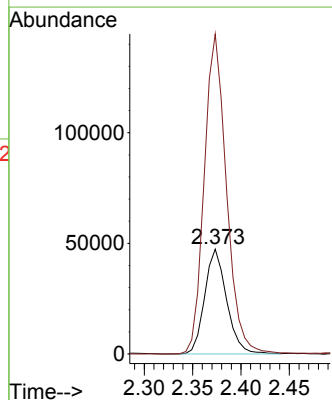
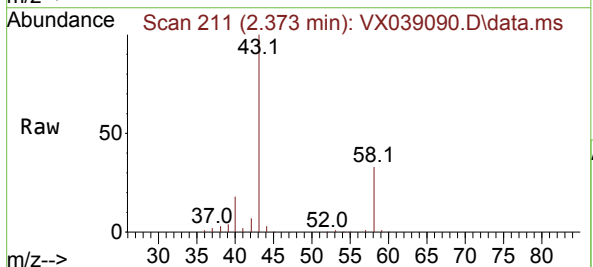
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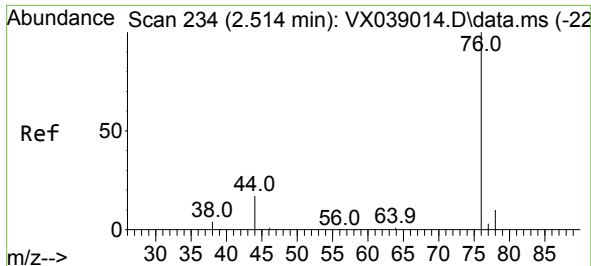
Tgt Ion: 56 Resp: 300
Ion Ratio Lower Upper
56 100
55 128.3 57.2 85.8#



#15
Acetone
Concen: 187.721 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

Tgt Ion: 58 Resp: 74936
Ion Ratio Lower Upper
58 100
43 305.0 249.9 374.9

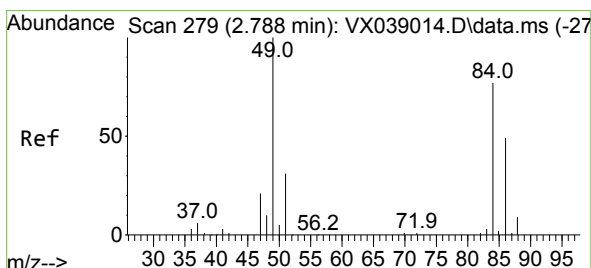
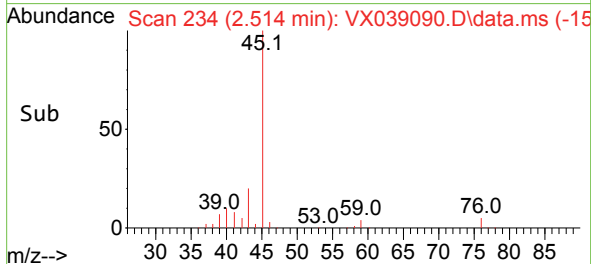
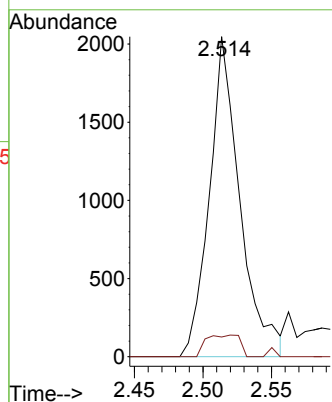
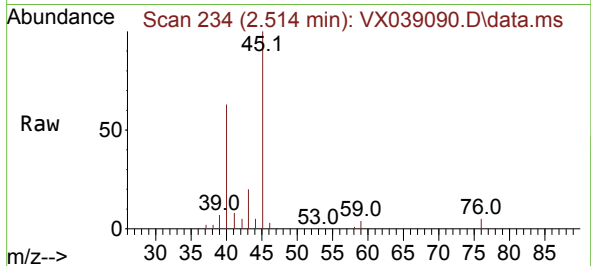




#16
Carbon Disulfide
Concen: 0.728 ug/l
RT: 2.514 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

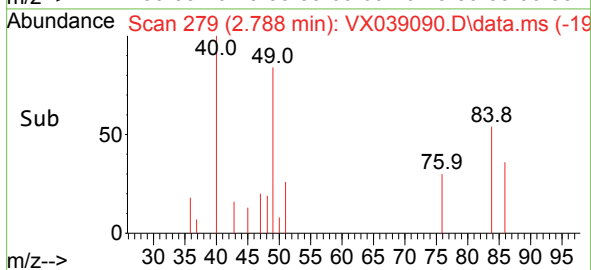
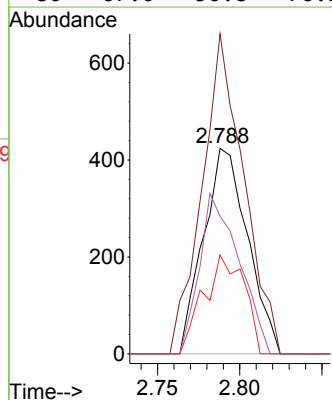
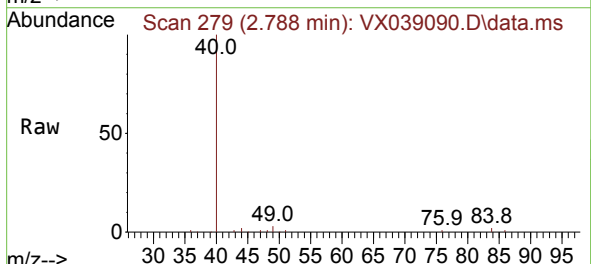
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(DEC)

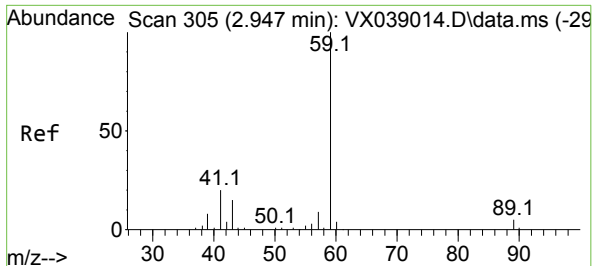
Tgt Ion: 76 Resp: 3173
Ion Ratio Lower Upper
76 100
78 6.2 8.0 12.0#



#18
Methylene Chloride
Concen: 0.464 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

Tgt Ion: 84 Resp: 792
Ion Ratio Lower Upper
84 100
49 155.7 103.8 155.8
51 48.1 31.8 47.6#
86 67.0 50.8 76.2

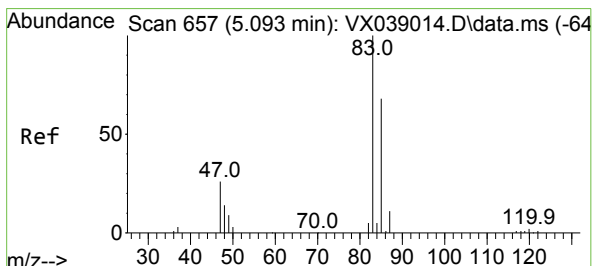
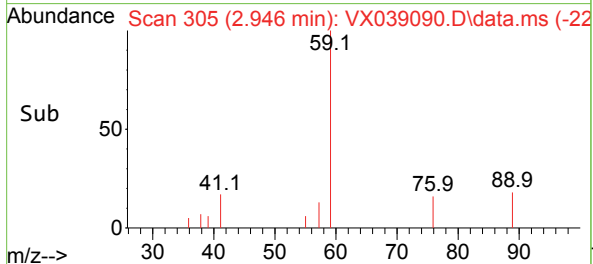
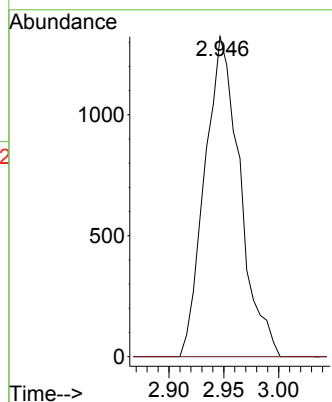
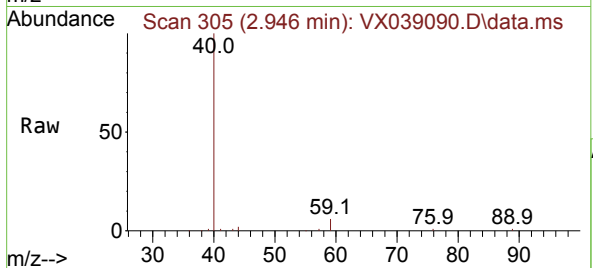




#23
tert-Butyl Alcohol
Concen: 4.869 ug/l
RT: 2.946 min Scan# 305
Delta R.T. -0.000 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

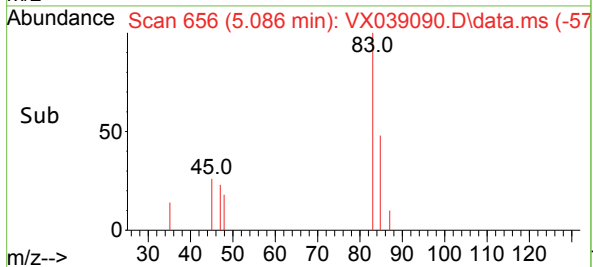
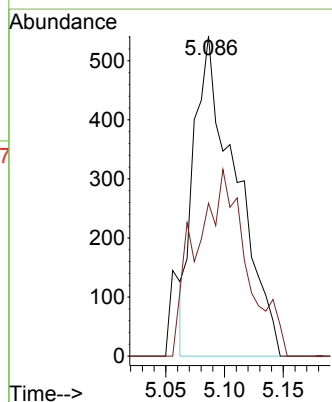
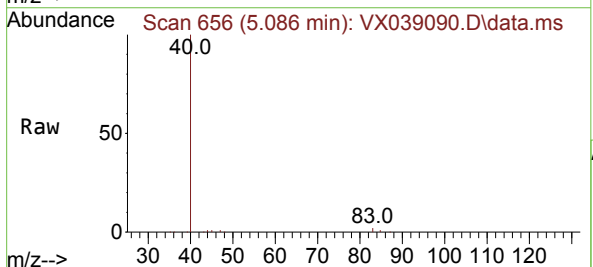
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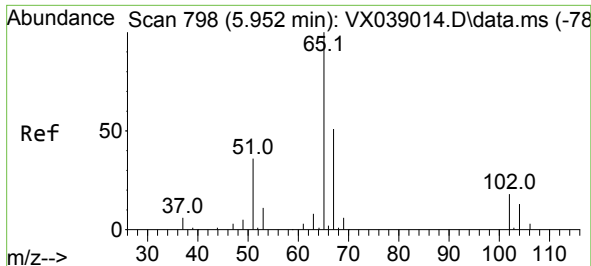
Tgt Ion: 59 Resp: 2960
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 0.445 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.006 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

Tgt Ion: 83 Resp: 1352
Ion Ratio Lower Upper
83 100
85 38.2 54.6 81.8#





#27

1,2-Dichloroethane-d4

Concen: 30.812 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX039090.D

Acq: 06 Dec 2023 15:41

Instrument :

MSVOA_X

ClientSampleId :

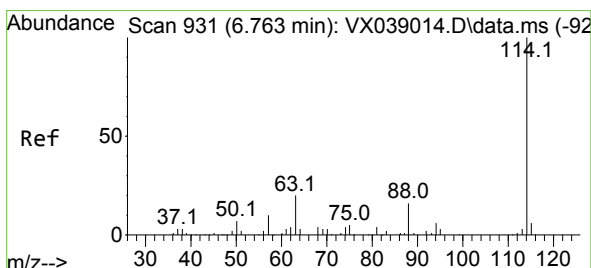
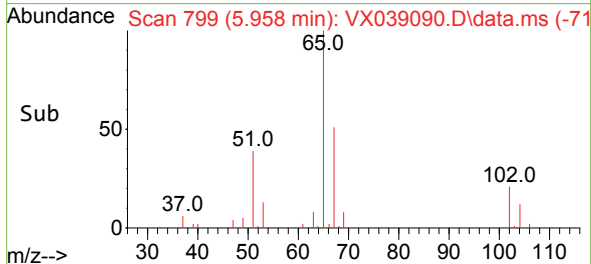
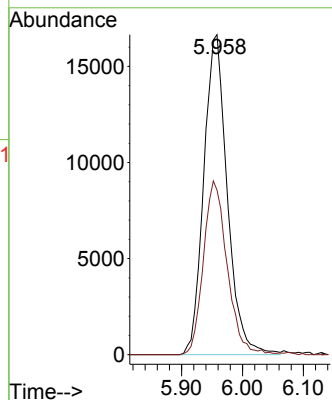
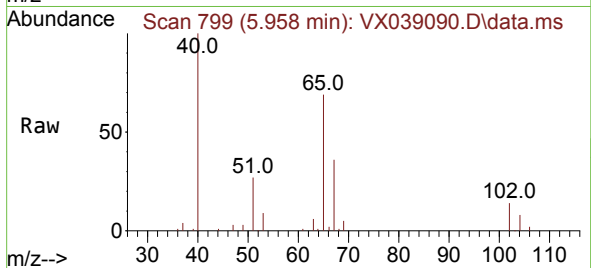
002-35TH-AVE(DEC)

Tgt Ion: 65 Resp: 44615

Ion Ratio Lower Upper

65 100

67 54.4 42.5 63.7



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX039090.D

Acq: 06 Dec 2023 15:41

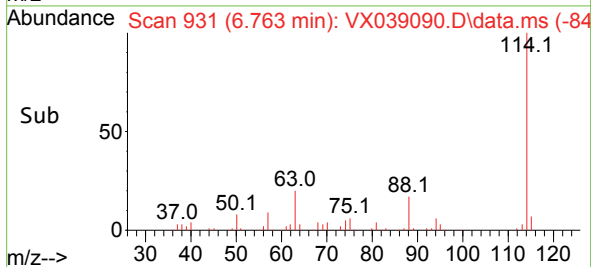
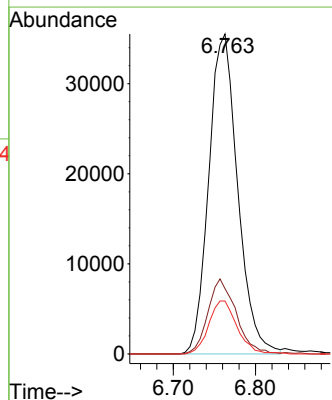
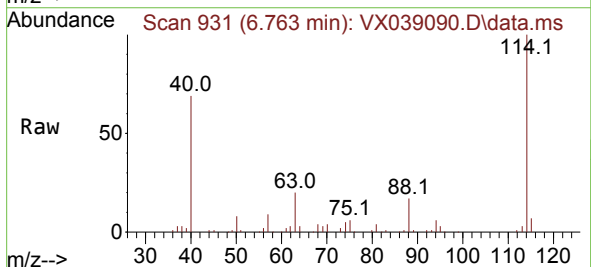
Tgt Ion: 114 Resp: 86779

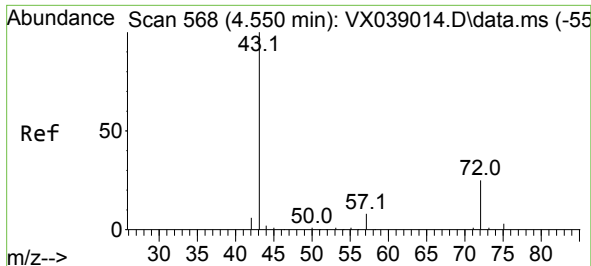
Ion Ratio Lower Upper

114 100

63 22.8 17.0 25.4

88 16.1 12.7 19.1

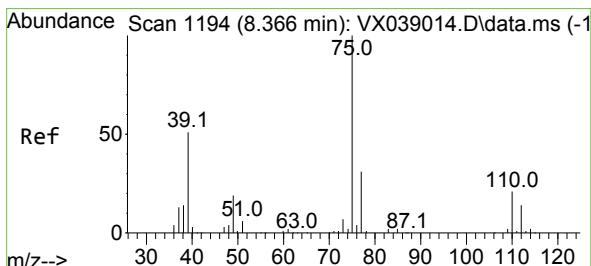
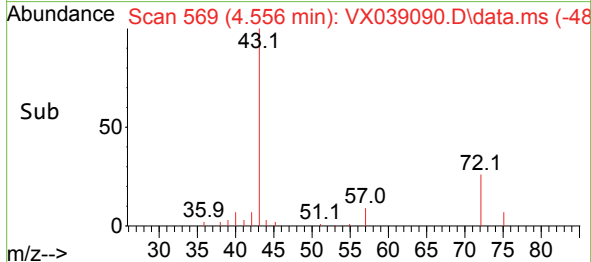
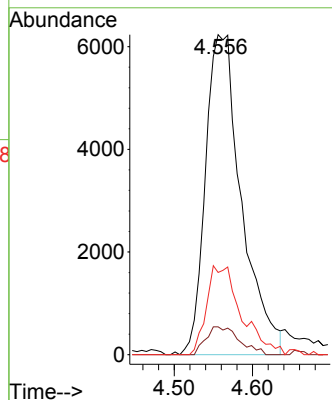
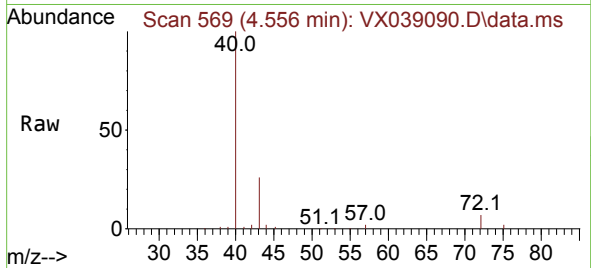




#30
2-Butanone
Concen: 10.867 ug/l
RT: 4.556 min Scan# 50
Delta R.T. 0.006 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

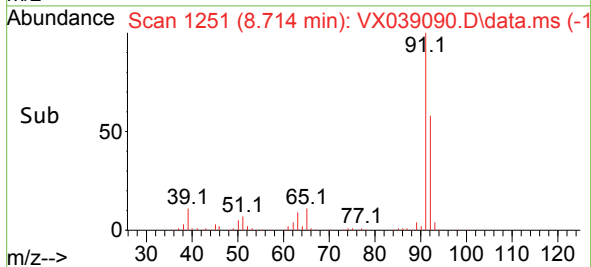
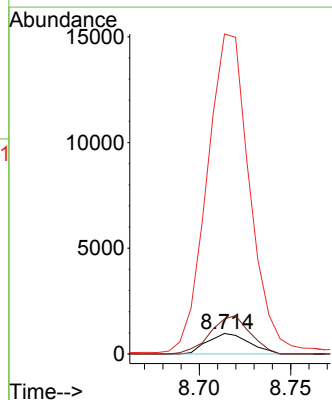
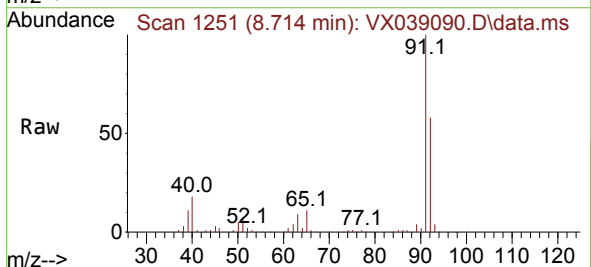
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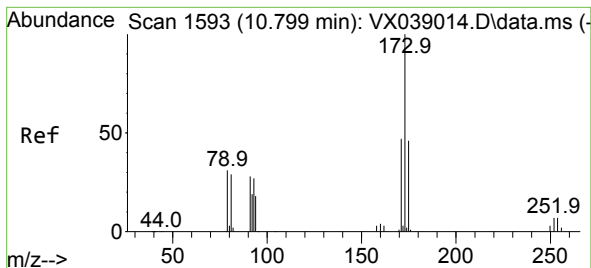
Tgt Ion: 43 Resp: 19903
Ion Ratio Lower Upper
43 100
57 4.3 6.6 10.0#
72 10.4 20.6 31.0#



#49
cis-1,3-Dichloropropene
Concen: 0.507 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.347 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

Tgt Ion: 75 Resp: 1539
Ion Ratio Lower Upper
75 100
77 171.3 24.4 36.6#
39 1508.1 40.6 60.8#





#56

Bromoform

Concen: 0.257 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.280 min

Lab File: VX039090.D

Acq: 06 Dec 2023 15:41

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(DEC)

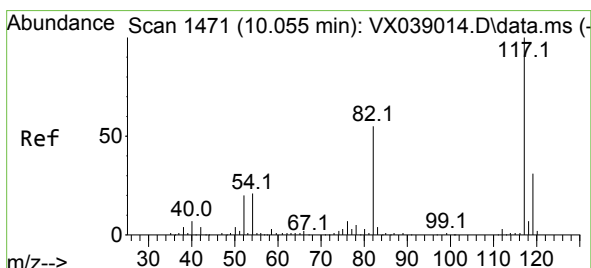
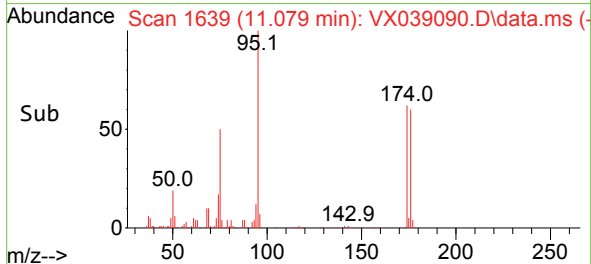
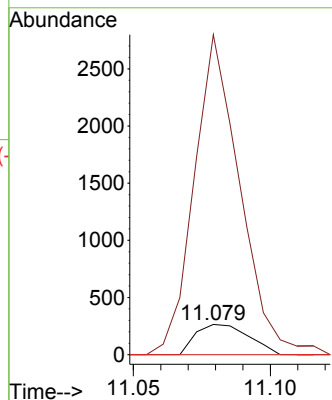
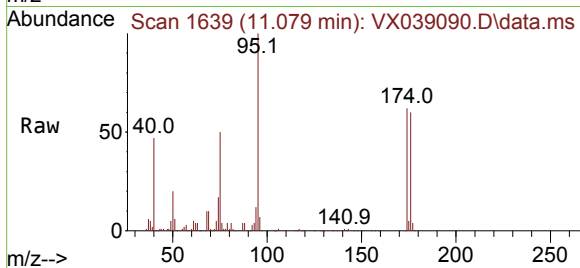
Tgt Ion:173 Resp: 357

Ion Ratio Lower Upper

173 100

175 913.7 37.6 56.4#

254 0.0 5.8 8.8#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX039090.D

Acq: 06 Dec 2023 15:41

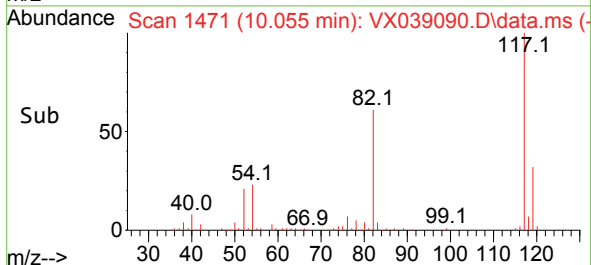
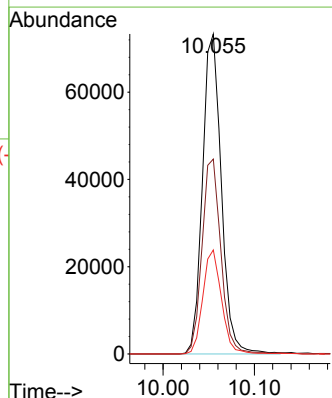
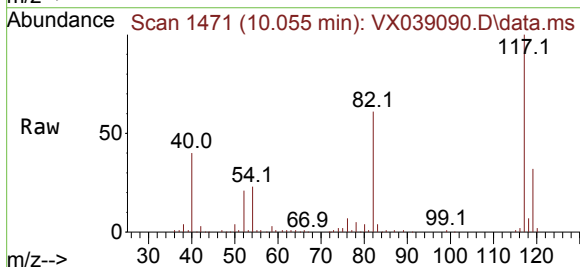
Tgt Ion:117 Resp: 104957

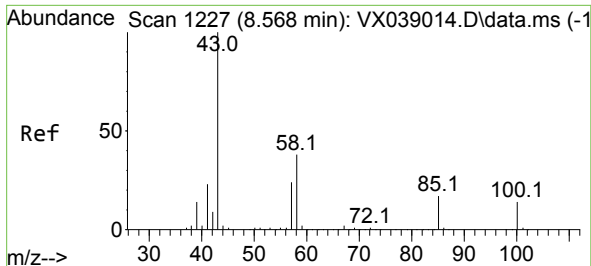
Ion Ratio Lower Upper

117 100

82 60.9 47.0 70.6

119 32.1 25.2 37.8

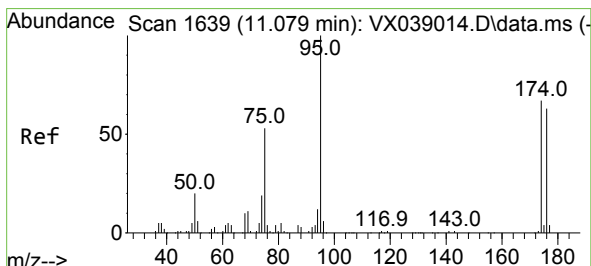
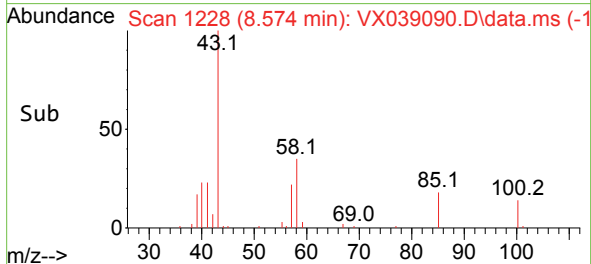
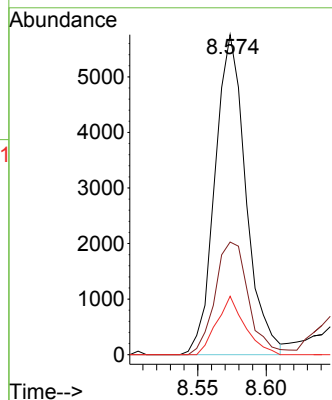
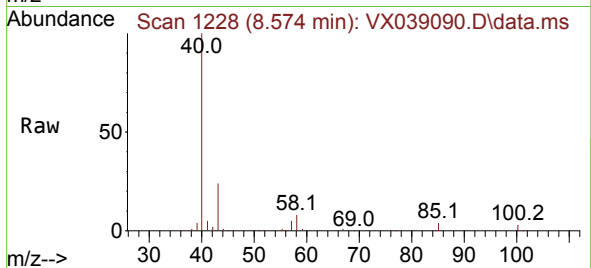




#58
4-Methyl-2-Pentanone
Concen: 2.836 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.006 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

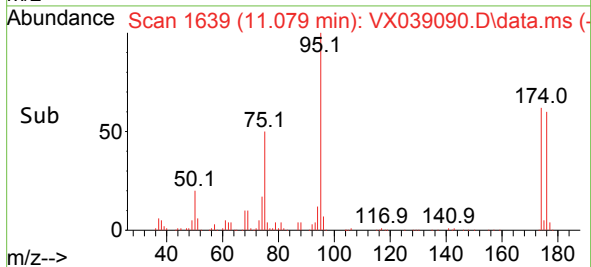
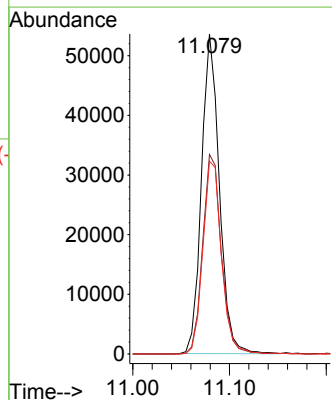
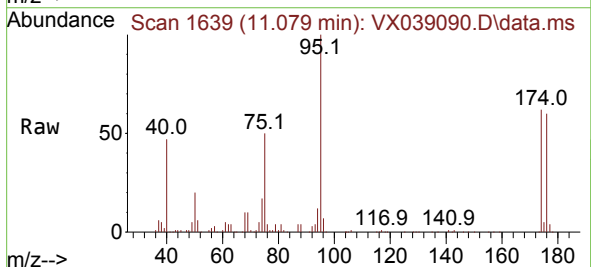
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(DEC)

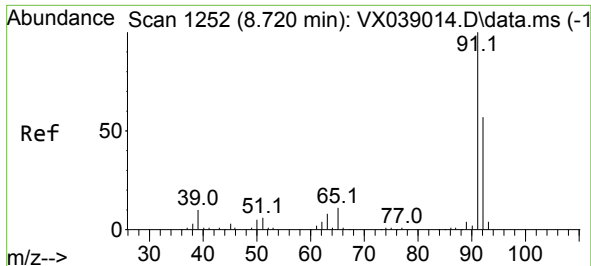
Tgt Ion:	43	Resp:	9026
Ion	Ratio	Lower	Upper
43	100		
58	38.6	30.1	45.1
85	16.6	13.9	20.9



#60
4-Bromofluorobenzene
Concen: 30.070 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

Tgt Ion:	95	Resp:	68933
Ion	Ratio	Lower	Upper
95	100		
174	65.3	55.4	83.2
176	62.7	52.6	78.8

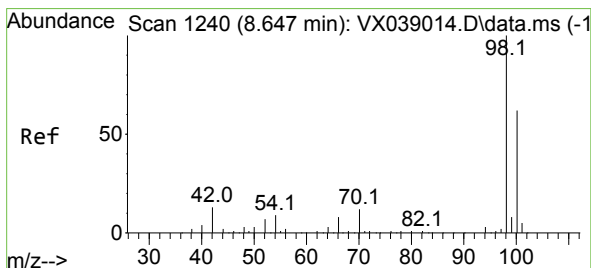
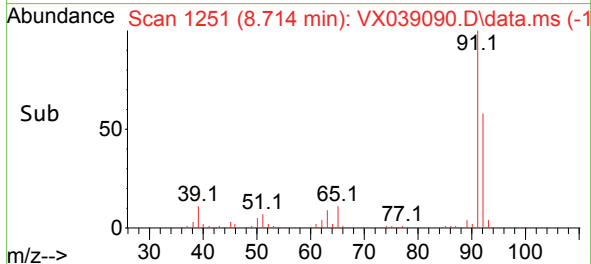
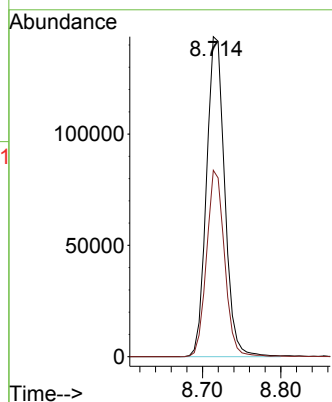
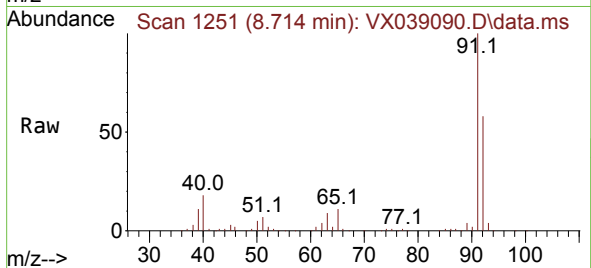




#62
Toluene
Concen: 31.141 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.006 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

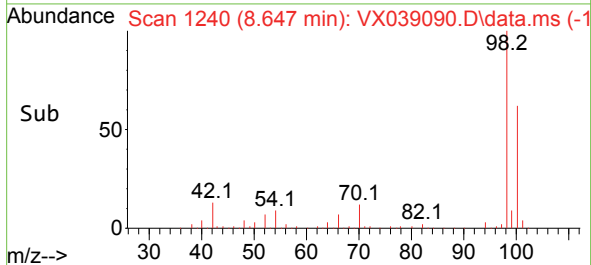
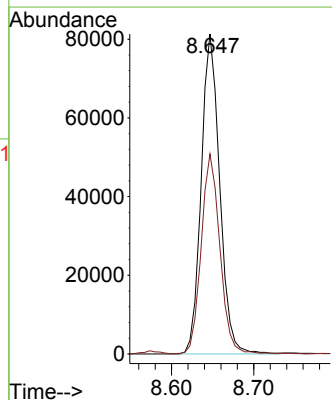
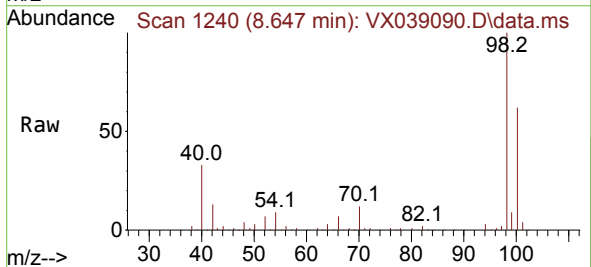
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(DEC)

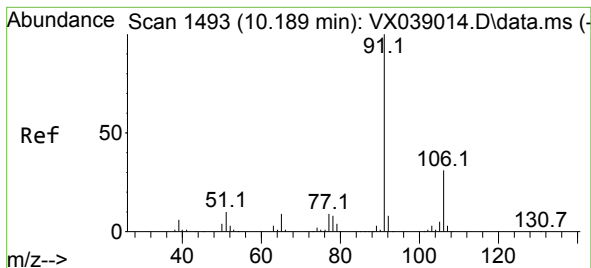
Tgt Ion: 91 Resp: 232053
Ion Ratio Lower Upper
91 100
92 57.4 45.9 68.9



#63
Toluene-d8
Concen: 30.613 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

Tgt Ion: 98 Resp: 127032
Ion Ratio Lower Upper
98 100
100 63.0 51.0 76.4

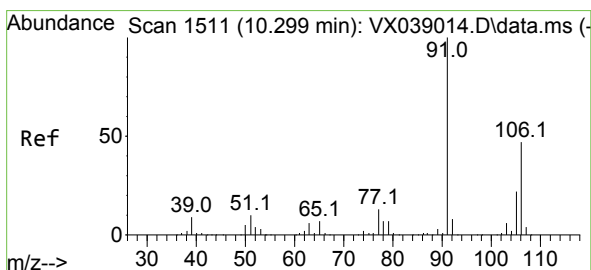
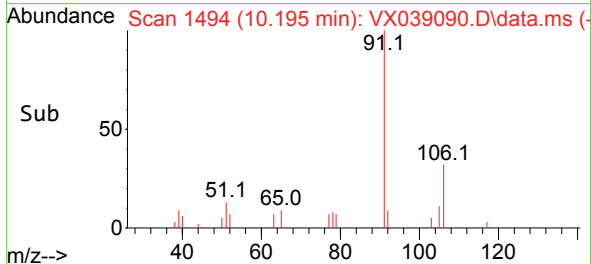
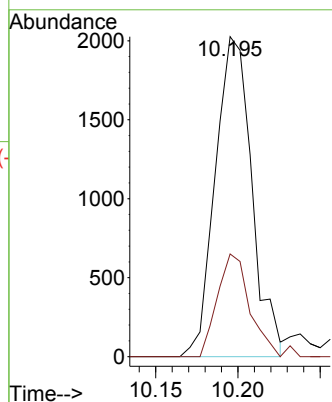
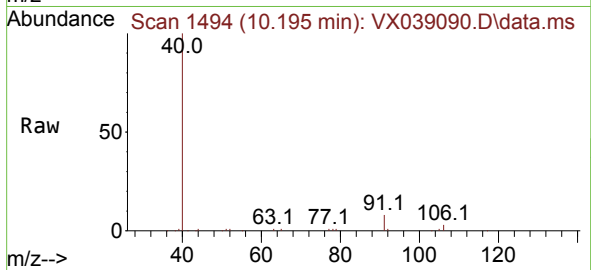




#66
Ethyl Benzene
Concen: 0.369 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

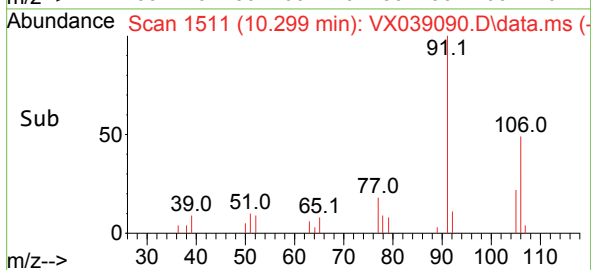
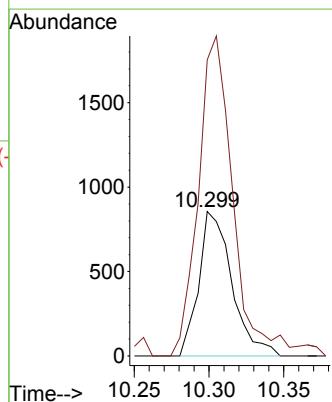
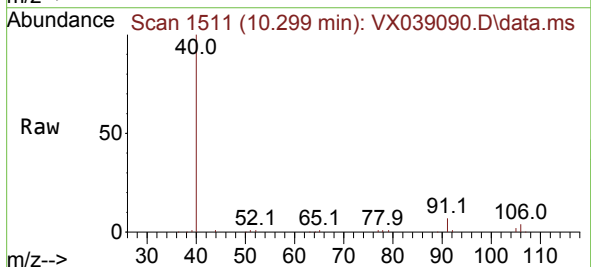
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(DEC)

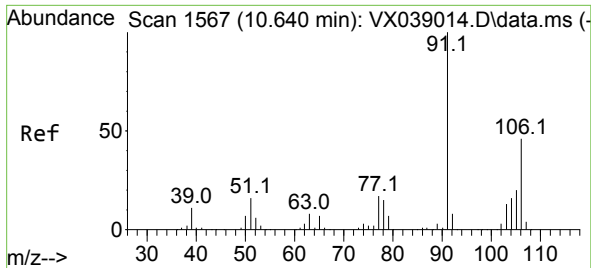
Tgt Ion: 91 Resp: 3133
Ion Ratio Lower Upper
91 100
106 32.1 24.4 36.6



#67
m/p-Xylenes
Concen: 0.420 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

Tgt Ion: 106 Resp: 1318
Ion Ratio Lower Upper
106 100
91 224.4 169.4 254.0

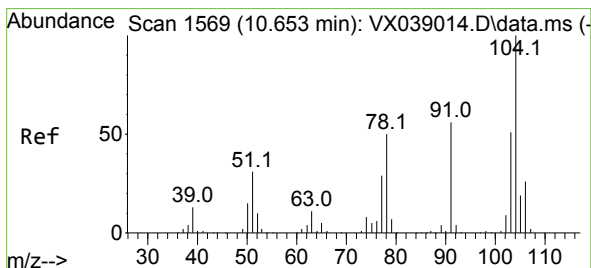
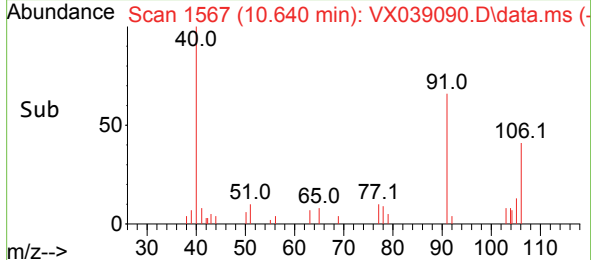
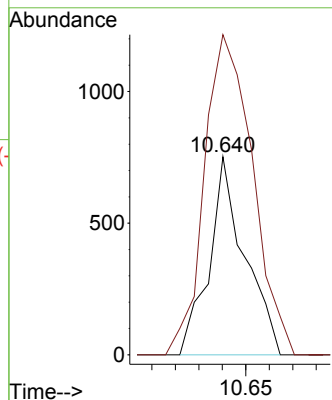
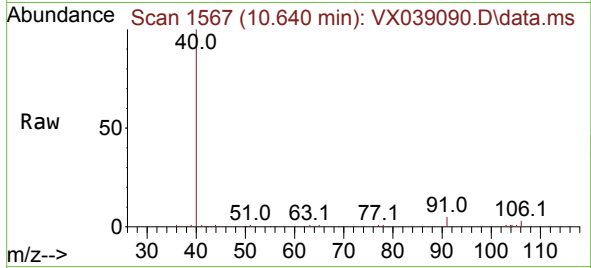




#68
o-Xylene
Concen: 0.260 ug/l
RT: 10.640 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

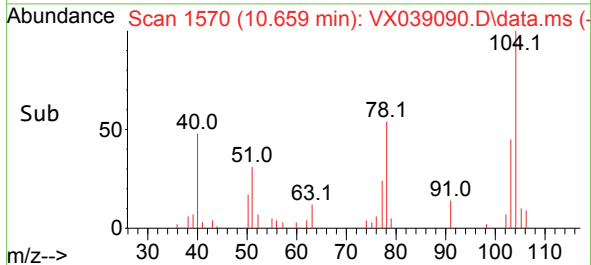
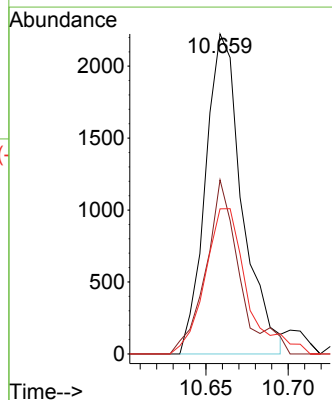
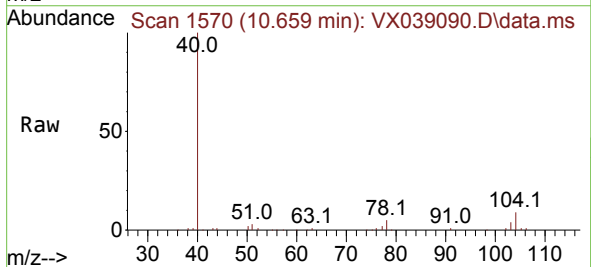
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(DEC)

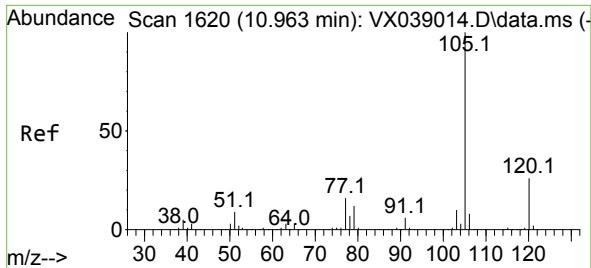
Tgt Ion:106 Resp: 791
Ion Ratio Lower Upper
106 100
91 219.3 111.2 333.6



#69
Styrene
Concen: 0.769 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

Tgt Ion:104 Resp: 3455
Ion Ratio Lower Upper
104 100
78 46.3 43.7 65.5
103 51.7 44.6 67.0

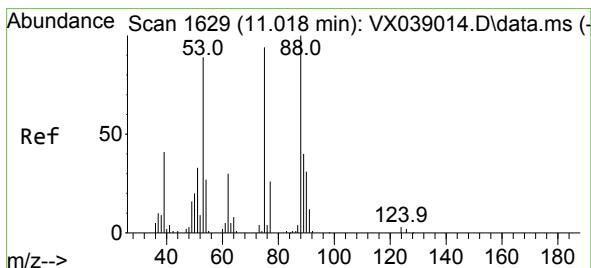
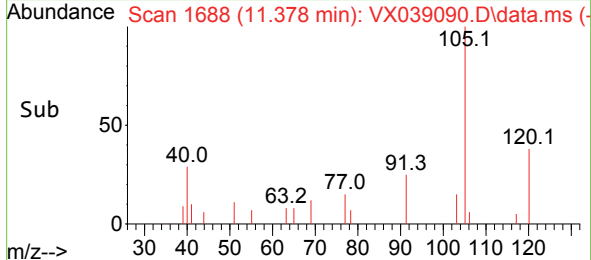
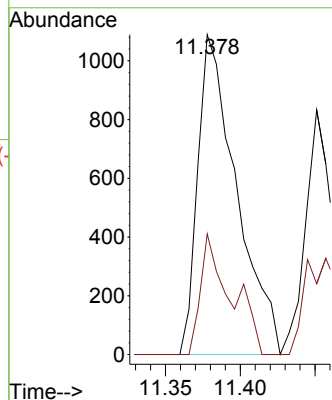
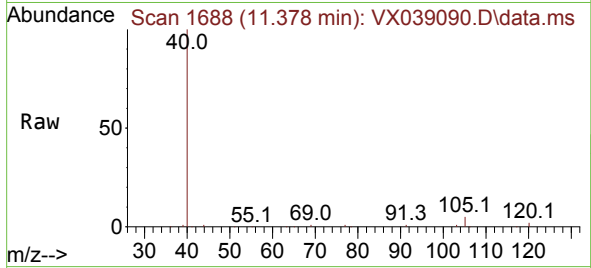




#70
Isopropylbenzene
Concen: 0.241 ug/l
RT: 11.378 min Scan# 1688
Delta R.T. 0.414 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

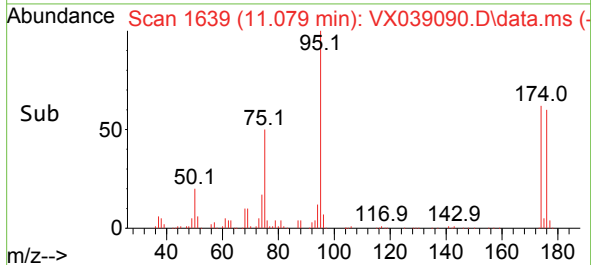
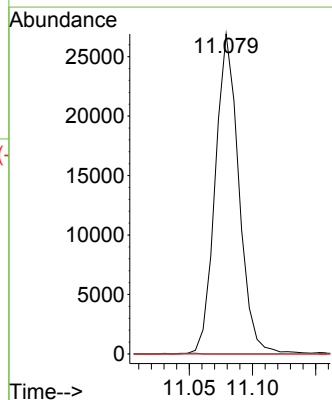
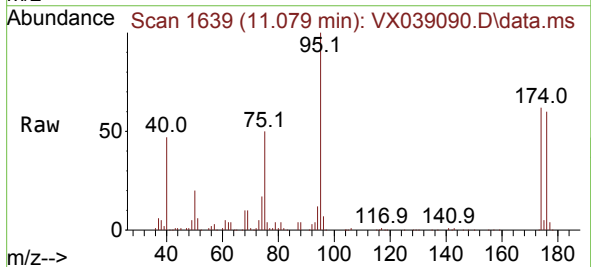
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(DEC)

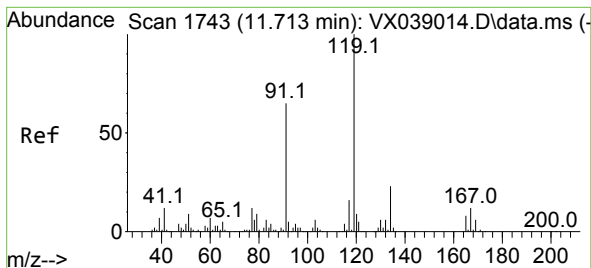
Tgt Ion:105 Resp: 1957
Ion Ratio Lower Upper
105 100
120 22.7 18.5 34.3



#77
t-1,4-Dichloro-2-butene
Concen: 34.232 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX039090.D
Acq: 06 Dec 2023 15:41

Tgt Ion: 75 Resp: 34819
Ion Ratio Lower Upper
75 100
53 0.0 46.9 140.8#
89 0.0 21.3 63.7#





#79

tert-butylbenzene

Concen: 1.543 ug/l

RT: 12.012 min Scan# 11

Delta R.T. 0.299 min

Lab File: VX039090.D

Acq: 06 Dec 2023 15:41

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(DEC)

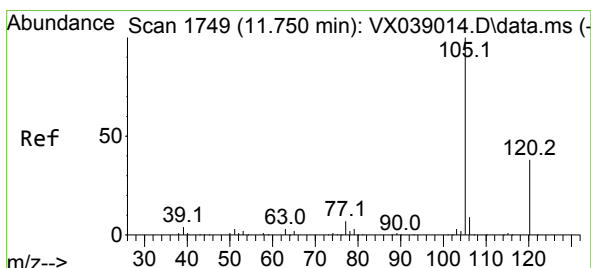
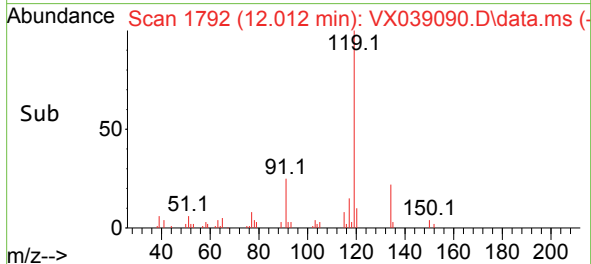
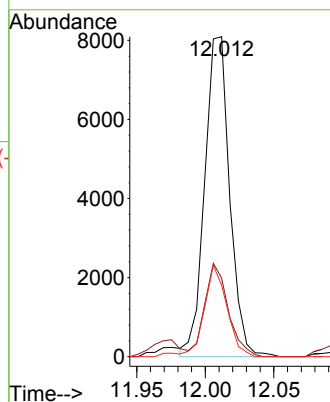
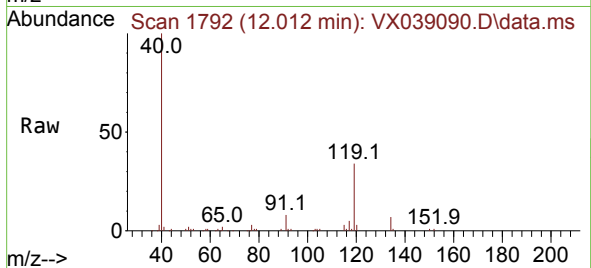
Tgt Ion:119 Resp: 10271

Ion Ratio Lower Upper

119 100

91 27.5 0.0 125.6

134 25.5 0.0 43.8



#80

1,2,4-Trimethylbenzene

Concen: 0.516 ug/l

RT: 11.756 min Scan# 1750

Delta R.T. 0.006 min

Lab File: VX039090.D

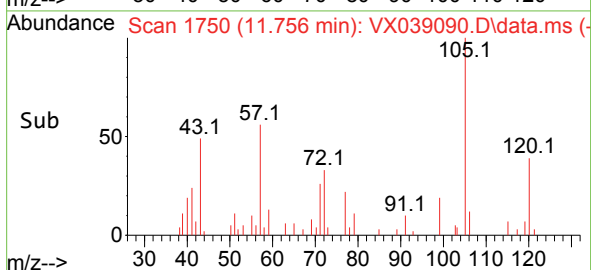
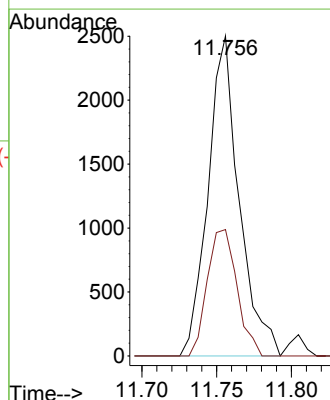
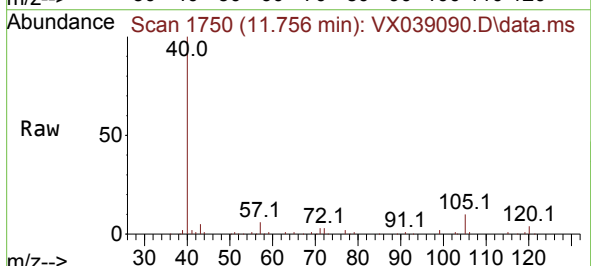
Acq: 06 Dec 2023 15:41

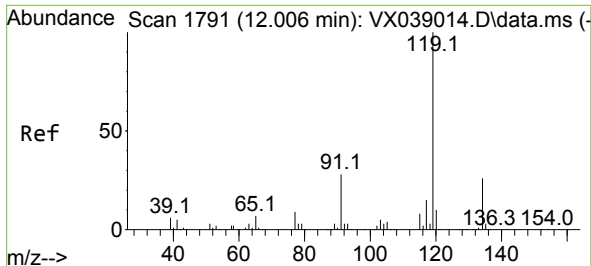
Tgt Ion:105 Resp: 3615

Ion Ratio Lower Upper

105 100

120 37.8 0.0 86.4





#82

p-Isopropyltoluene

Concen: 1.440 ug/l

RT: 12.012 min Scan# 119

Delta R.T. 0.006 min

Lab File: VX039090.D

Acq: 06 Dec 2023 15:41

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(DEC)

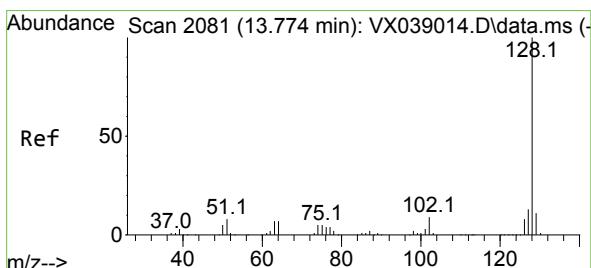
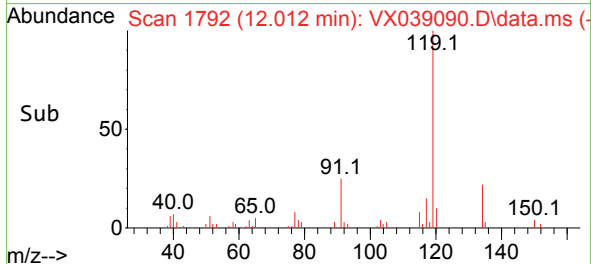
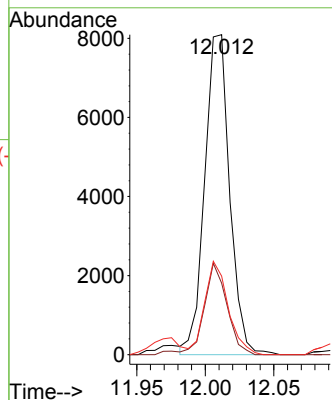
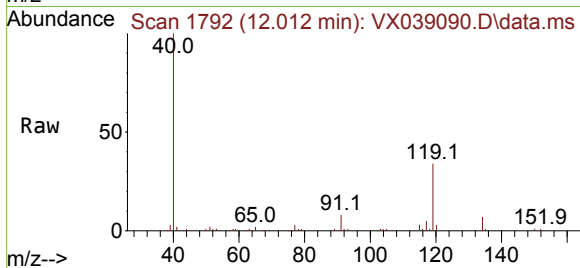
Tgt Ion:119 Resp: 10271

Ion Ratio Lower Upper

119 100

134 25.5 0.0 52.6

91 27.5 0.0 54.2



#91

Naphthalene

Concen: 0.363 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

Lab File: VX039090.D

Acq: 06 Dec 2023 15:41

Tgt Ion:128 Resp: 3018

Ion Ratio Lower Upper

128 100

127 10.9 10.2 15.2

129 13.2 8.6 12.8#

