

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072823\
 Data File : VX036698.D
 Acq On : 28 Jul 2023 11:40
 Operator : JC/MD
 Sample : 03790-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: Jul 28 16:16:49 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 04:32:22 2023
 Response via : Initial Calibration

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

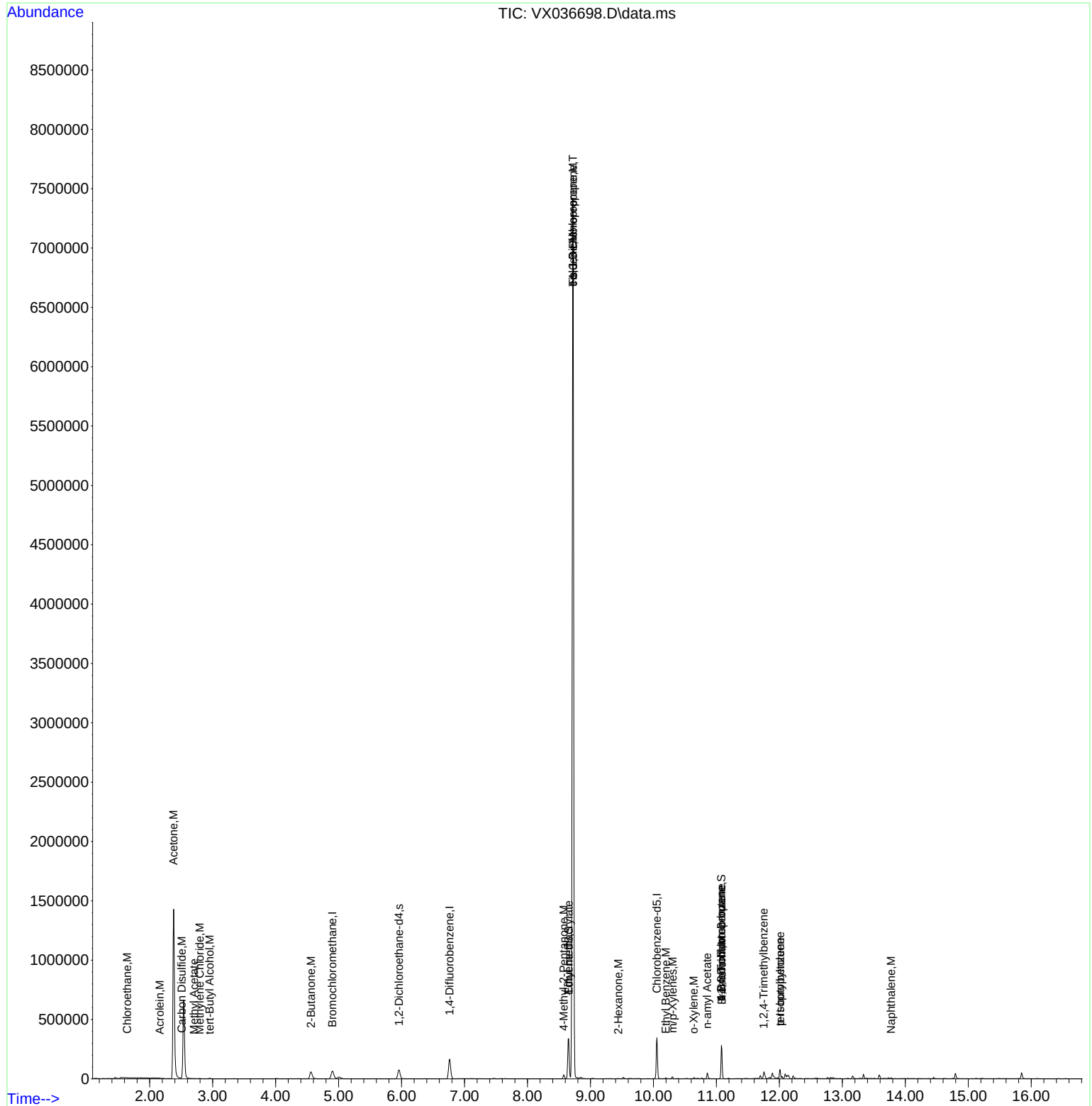
Internal Standards						
1) Bromochloromethane	4.898	128	29459	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	170665	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	154038	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	72769	29.762	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.200%
60) 4-Bromofluorobenzene	11.079	95	74465	29.802	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.333%
63) Toluene-d8	8.653	98	207011	29.205	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.333%
Target Compounds						
					Qvalue	
6) Chloroethane	1.642	64	385	0.244	ug/l #	46
12) Methyl Acetate	2.703	43	1985	0.490	ug/l	92
13) Acrolein	2.160	56	177	0.532	ug/l	93
15) Acetone	2.380	58	494990	1539.283	ug/l	90
16) Carbon Disulfide	2.508	76	2969	0.710	ug/l	95
18) Methylene Chloride	2.794	84	1630	0.785	ug/l	86
23) tert-Butyl Alcohol	2.953	59	4269	8.094	ug/l #	1
30) 2-Butanone	4.562	43	100849	62.236	ug/l	99
47) n-amyl Acetate	10.854	43	6394	1.499	ug/l #	1
48) t-1,3-Dichloropropene	8.720	75	35303	11.386	ug/l #	1
49) cis-1,3-Dichloropropene	8.720	75	35303	10.541	ug/l #	1
51) Ethyl methacrylate	8.653	69	678	0.204	ug/l	88
56) Bromoform	11.085	173	541	0.364	ug/l #	1
58) 4-Methyl-2-Pentanone	8.574	43	19361	6.078	ug/l	98
59) 2-Hexanone	9.439	43	1588	0.655	ug/l #	93
62) Toluene	8.720	91	4646669	537.638	ug/l	93
66) Ethyl Benzene	10.195	91	4390	0.467	ug/l	97
67) m/p-Xylenes	10.305	106	3839	1.048	ug/l	90
68) o-Xylene	10.640	106	1654	0.455	ug/l	92
72) 1,2,3-Trichloropropane	11.079	75	38656	12.627	ug/l	39
77) t-1,4-Dichloro-2-butene	11.079	75	38656	38.452	ug/l #	7
79) tert-butylbenzene	12.012	119	33702	4.565	ug/l	63
80) 1,2,4-Trimethylbenzene	11.750	105	13439	1.744	ug/l	44
82) p-Isopropyltoluene	12.012	119	33702	4.359	ug/l	100
91) Naphthalene	13.774	128	4395	0.476	ug/l	99

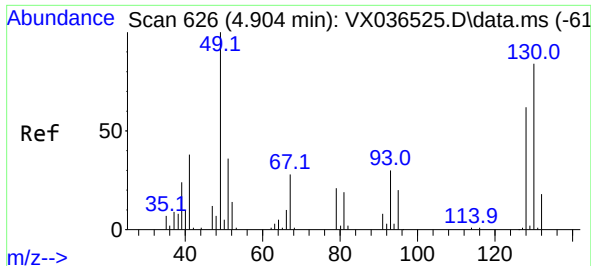
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 28 16:16:49 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 14 04:32:22 2023
Response via : Initial Calibration

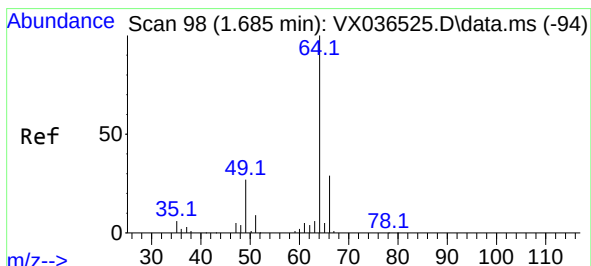
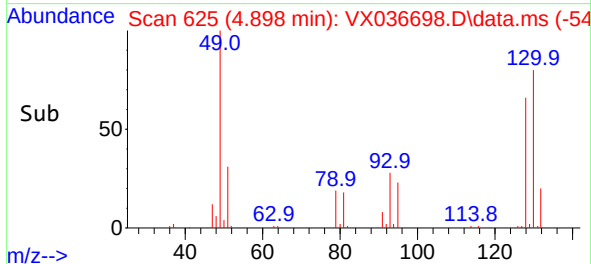
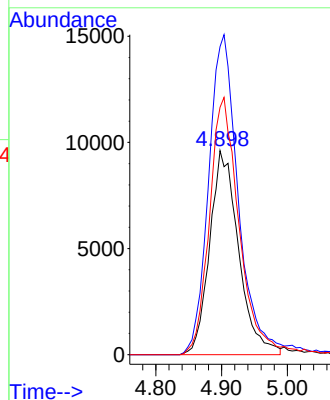
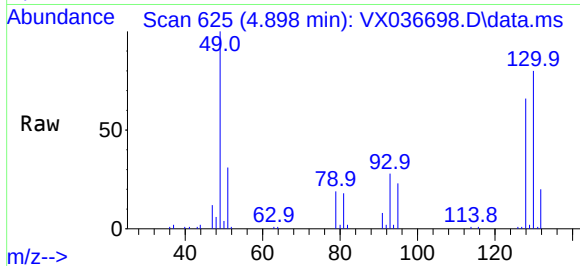




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.898 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

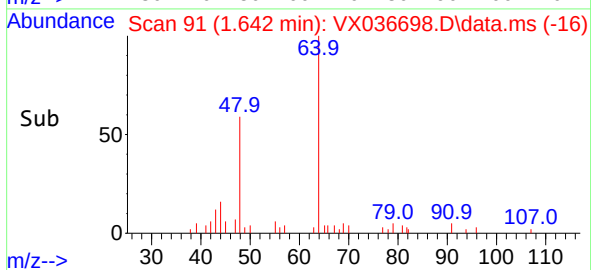
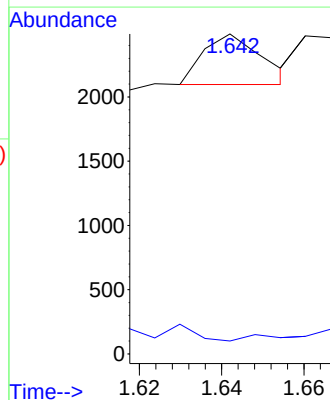
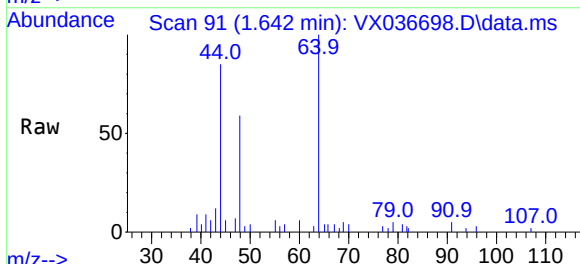
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE-(JUNE)

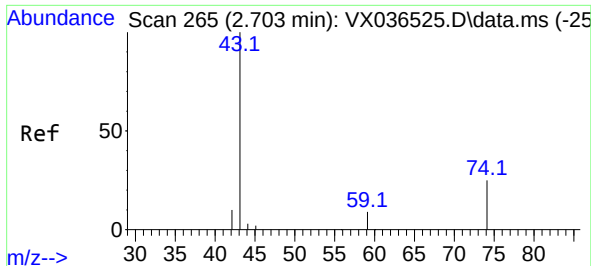
Tgt Ion:128 Resp: 29459
Ion Ratio Lower Upper
128 100
49 160.2 0.0 406.3
130 128.0 0.0 328.0



#6
Chloroethane
Concen: 0.244 ug/l
RT: 1.642 min Scan# 91
Delta R.T. -0.043 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

Tgt Ion: 64 Resp: 385
Ion Ratio Lower Upper
64 100
66 0.0 23.1 34.7#

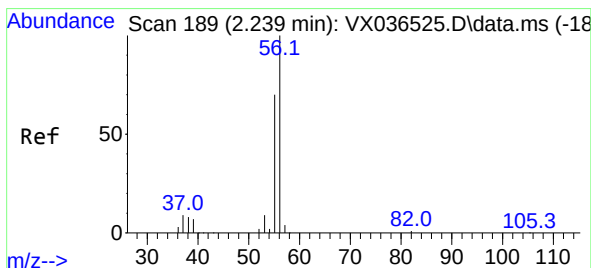
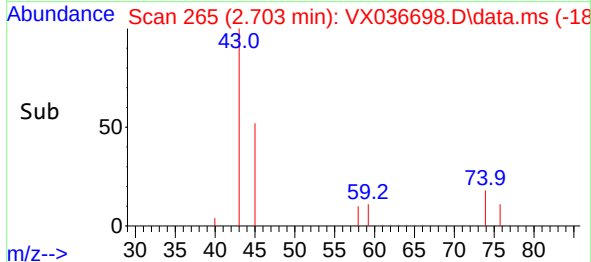
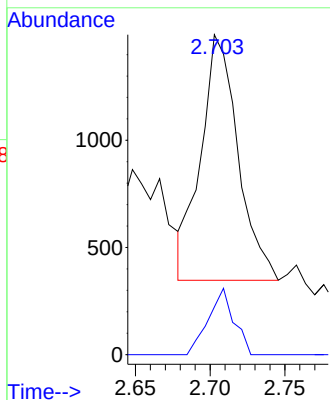
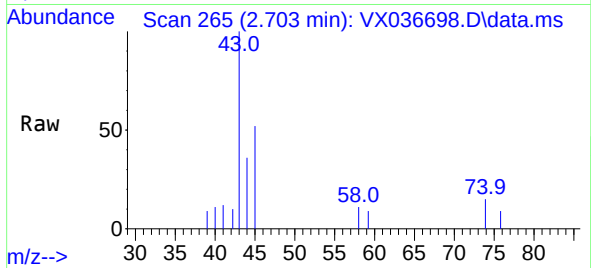




#12
Methyl Acetate
Concen: 0.490 ug/l
RT: 2.703 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

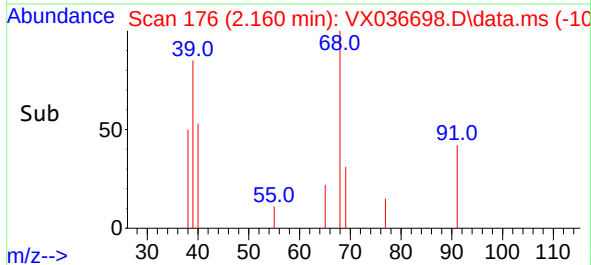
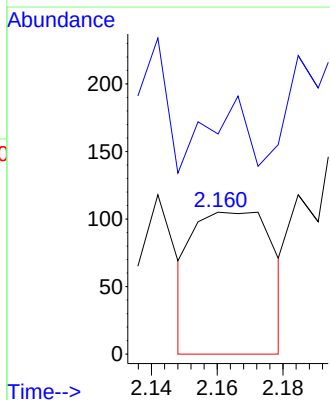
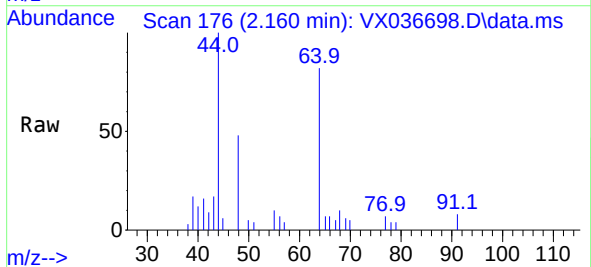
Instrument :
MSVOA_X
ClientSampleId :
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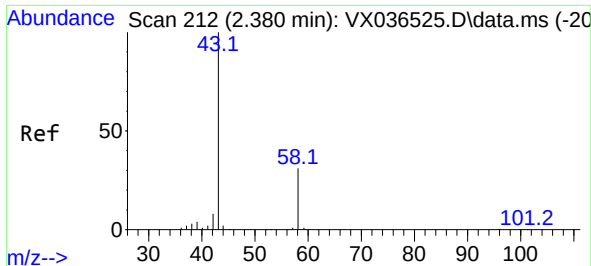
Tgt Ion: 43 Resp: 1985
Ion Ratio Lower Upper
43 100
74 21.5 20.3 30.5



#13
Acrolein
Concen: 0.532 ug/l
RT: 2.160 min Scan# 176
Delta R.T. -0.079 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

Tgt Ion: 56 Resp: 177
Ion Ratio Lower Upper
56 100
55 80.8 59.7 89.5

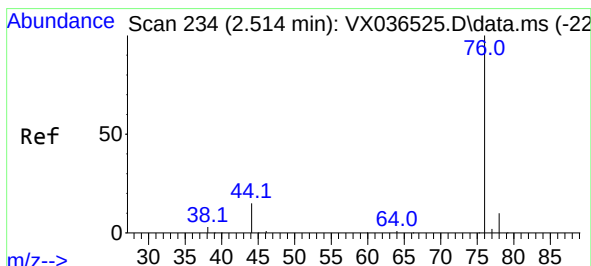
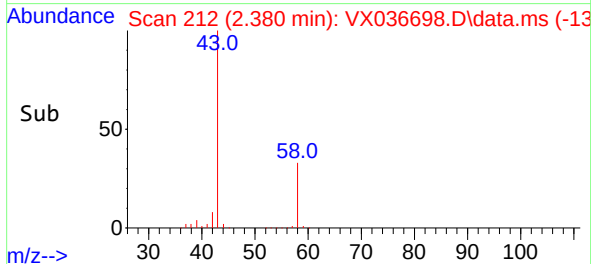
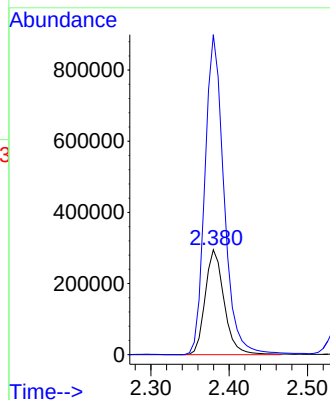
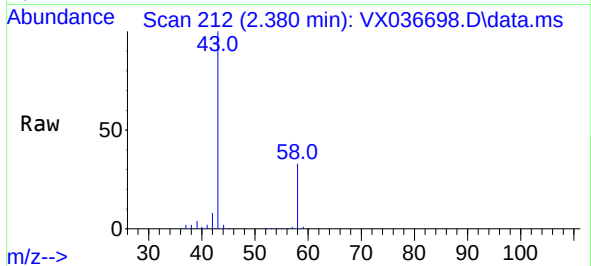




#15
Acetone
Concen: 1539.283 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

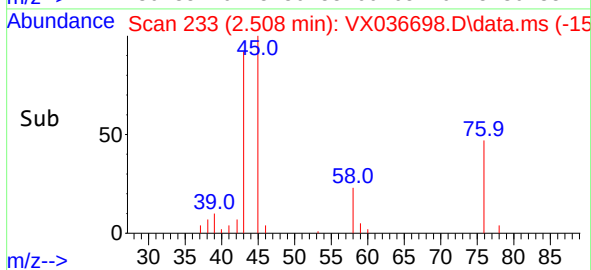
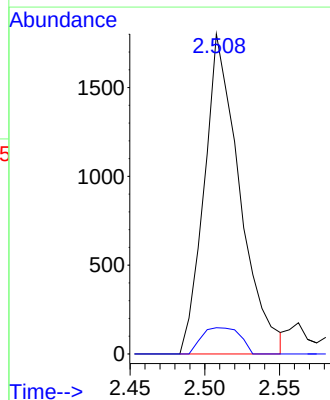
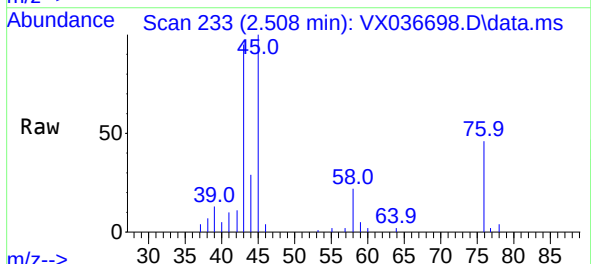
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE-(JUNE)

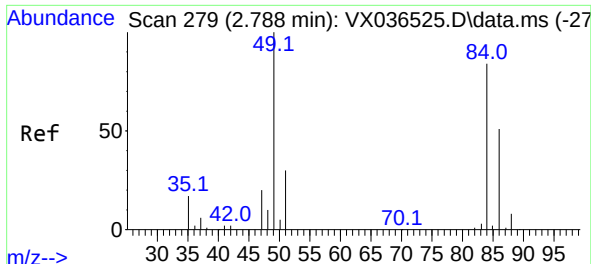
Tgt Ion: 58 Resp: 494990
Ion Ratio Lower Upper
58 100
43 304.8 261.0 391.4



#16
Carbon Disulfide
Concen: 0.710 ug/l
RT: 2.508 min Scan# 233
Delta R.T. -0.006 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

Tgt Ion: 76 Resp: 2969
Ion Ratio Lower Upper
76 100
78 8.2 8.0 12.0



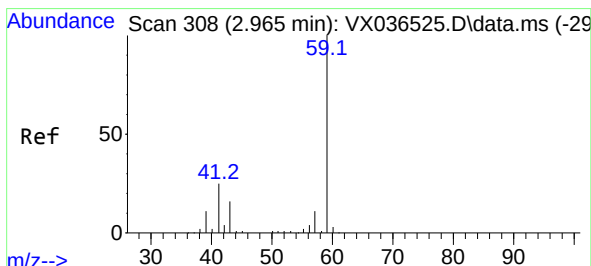
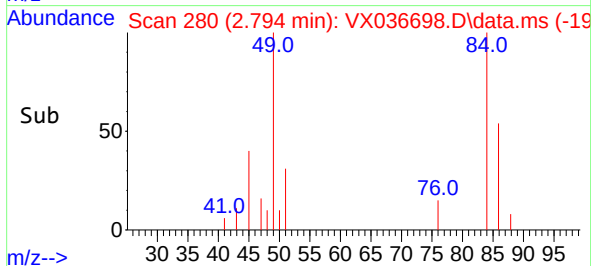
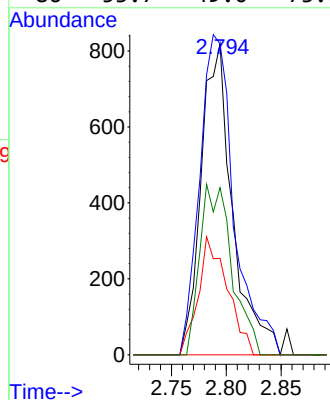
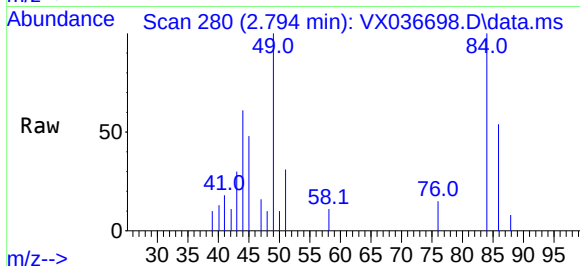


#18
Methylene Chloride
Concen: 0.785 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

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

Tgt Ion: 84 Resp: 1630

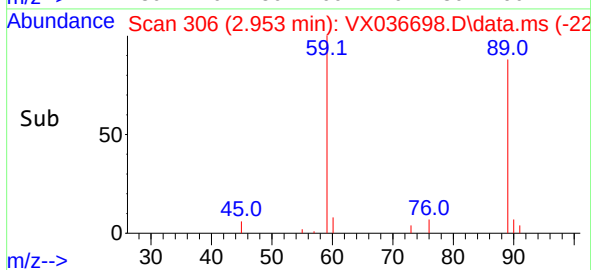
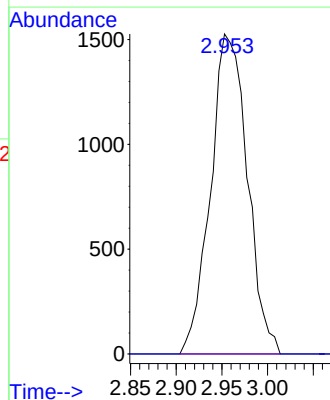
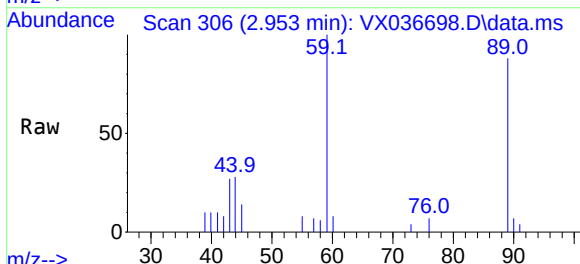
Ion	Ratio	Lower	Upper
84	100		
49	100.0	95.4	143.0
51	31.0	28.3	42.5
86	53.7	49.0	73.6

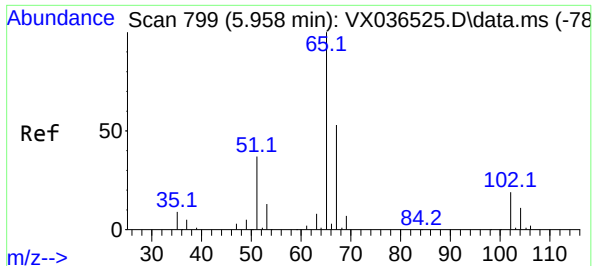


#23
tert-Butyl Alcohol
Concen: 8.094 ug/l
RT: 2.953 min Scan# 306
Delta R.T. -0.012 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

Tgt Ion: 59 Resp: 4269

Ion	Ratio	Lower	Upper
59	100		
52	0.0	142.6	213.8#

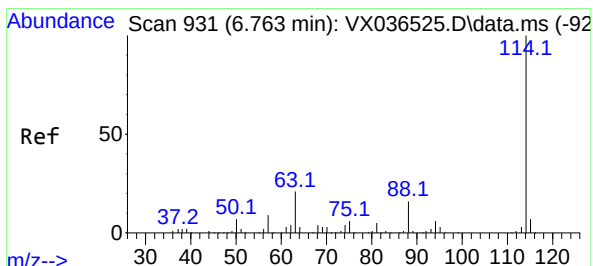
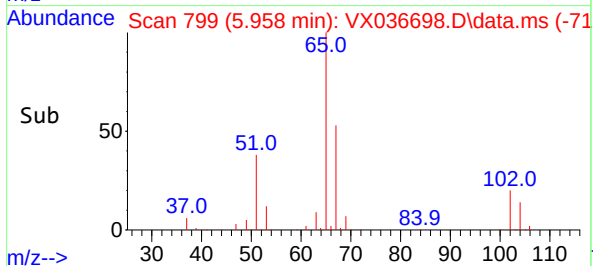
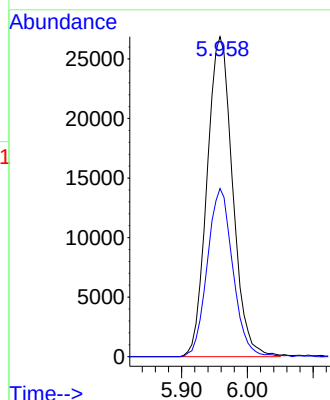
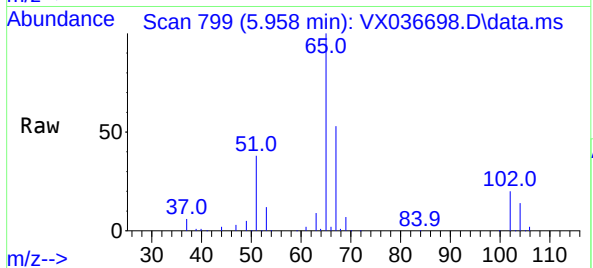




#27
 1,2-Dichloroethane-d4
 Concen: 29.762 ug/l
 RT: 5.958 min Scan# 799
 Delta R.T. 0.000 min
 Lab File: VX036698.D
 Acq: 28 Jul 2023 11:40

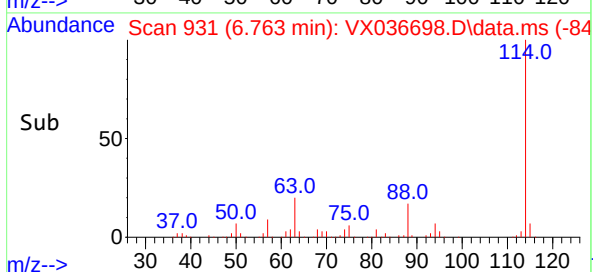
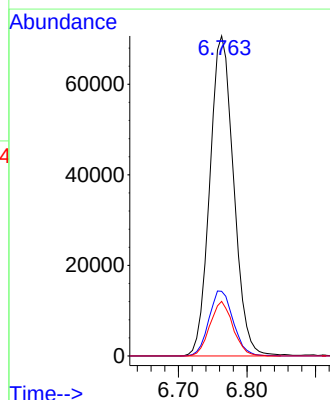
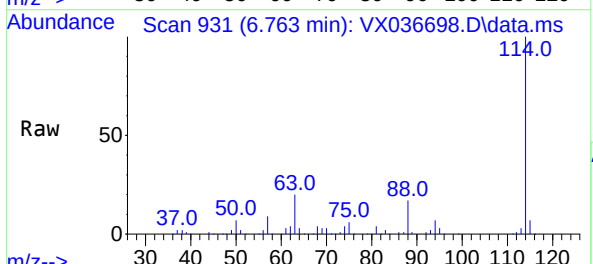
Instrument : MSVOA_X
 ClientSampleId : 002-35TH-AVE-(JUNE)

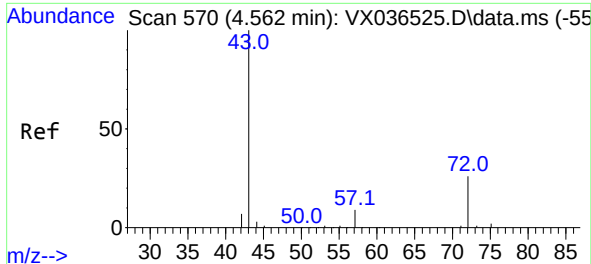
Tgt Ion: 65 Resp: 72769
 Ion Ratio Lower Upper
 65 100
 67 52.0 42.1 63.1



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.763 min Scan# 931
 Delta R.T. 0.000 min
 Lab File: VX036698.D
 Acq: 28 Jul 2023 11:40

Tgt Ion: 114 Resp: 170665
 Ion Ratio Lower Upper
 114 100
 63 20.7 16.6 24.8
 88 16.5 12.9 19.3





#30

2-Butanone

Concen: 62.236 ug/l

RT: 4.562 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX036698.D

Acq: 28 Jul 2023 11:40

Instrument :

MSVOA_X

ClientSampleId :

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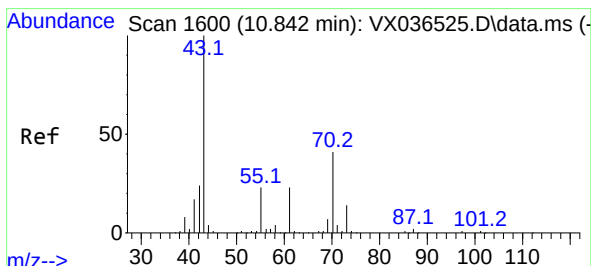
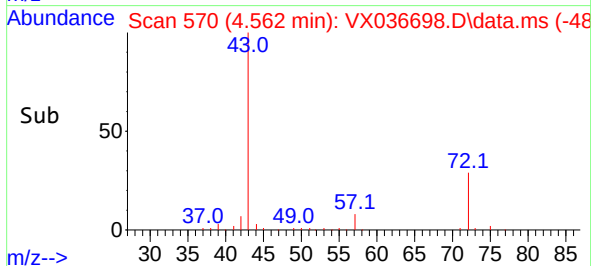
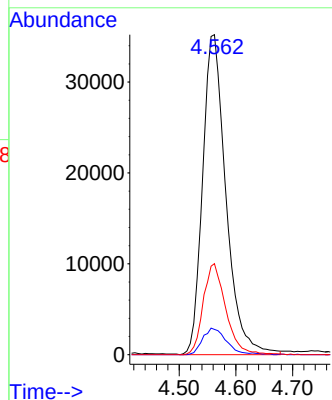
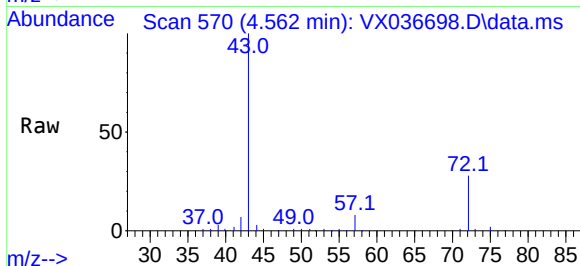
Tgt Ion: 43 Resp: 100849

Ion Ratio Lower Upper

43 100

57 8.3 6.4 9.6

72 27.4 21.6 32.4



#47

n-amy1 Acetate

Concen: 1.499 ug/l

RT: 10.854 min Scan# 1602

Delta R.T. 0.012 min

Lab File: VX036698.D

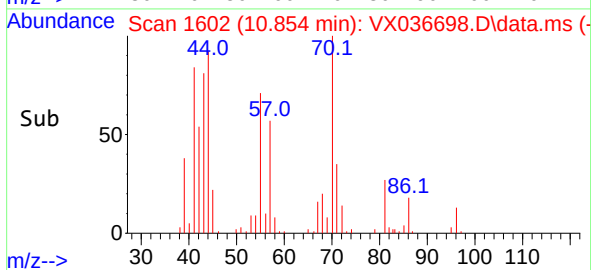
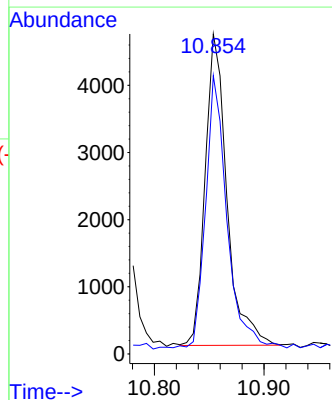
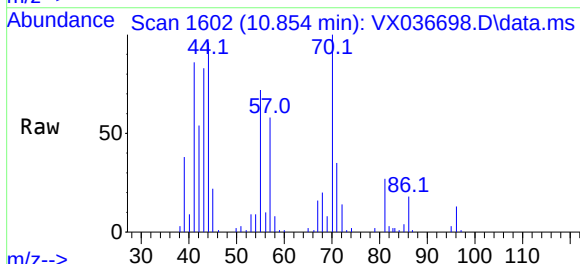
Acq: 28 Jul 2023 11:40

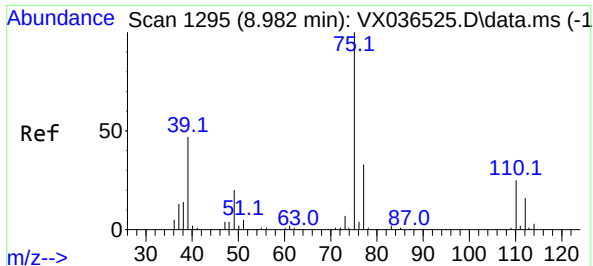
Tgt Ion: 43 Resp: 6394

Ion Ratio Lower Upper

43 100

55 85.7 18.6 28.0#

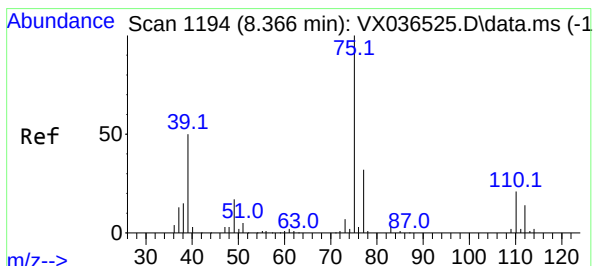
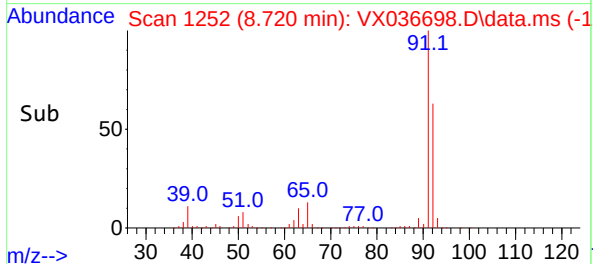
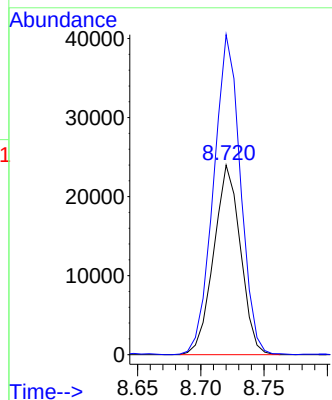
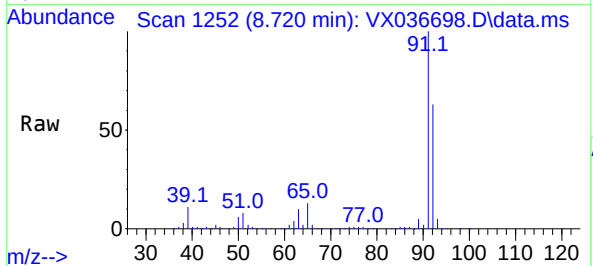




#48
t-1,3-Dichloropropene
Concen: 11.386 ug/l
RT: 8.720 min Scan# 11
Delta R.T. -0.262 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

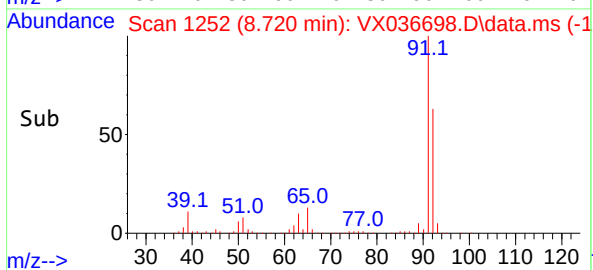
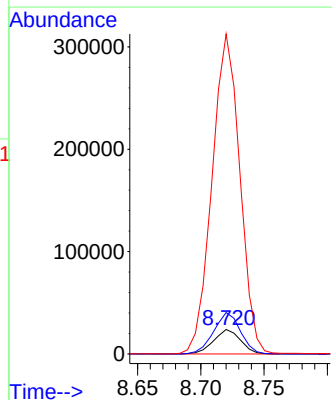
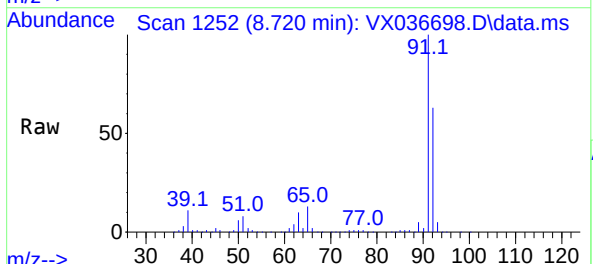
Instrument :
MSVOA_X
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002-35TH-AVE-(JUNE)

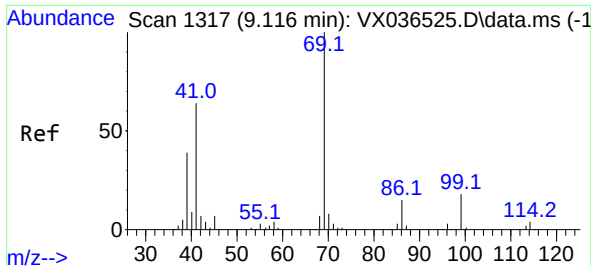
Tgt Ion: 75 Resp: 35303
Ion Ratio Lower Upper
75 100
77 168.4 26.8 40.2#



#49
cis-1,3-Dichloropropene
Concen: 10.541 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.354 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

Tgt Ion: 75 Resp: 35303
Ion Ratio Lower Upper
75 100
77 168.4 25.4 38.2#
39 1299.9 40.2 60.4#

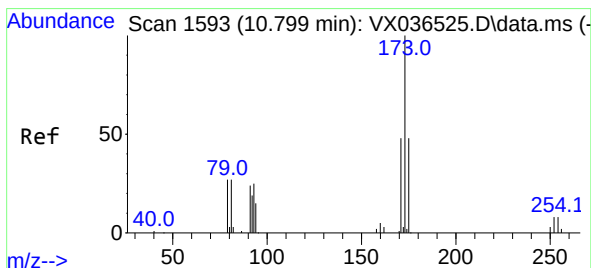
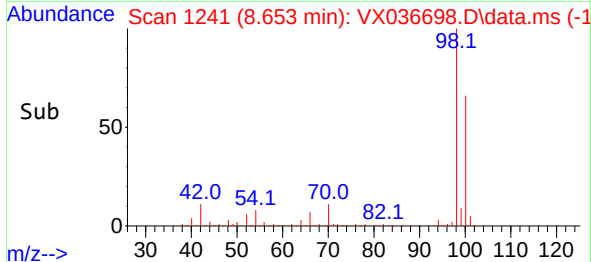
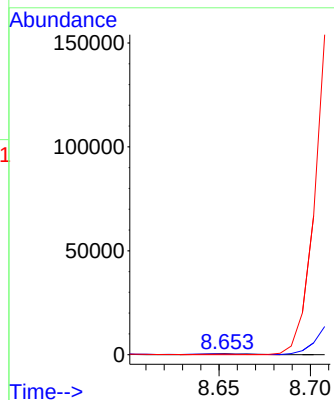
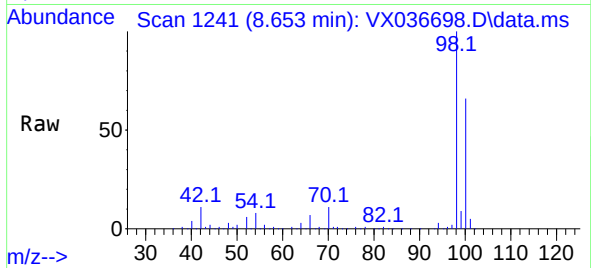




#51
Ethyl methacrylate
Concen: 0.204 ug/l
RT: 8.653 min Scan# 11
Delta R.T. -0.463 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

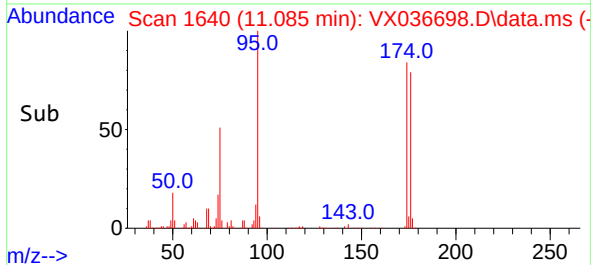
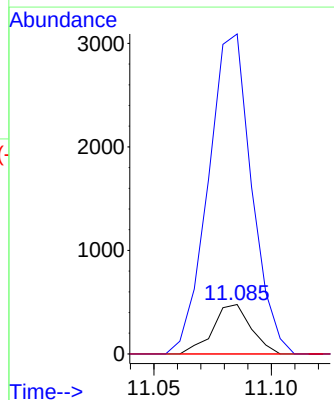
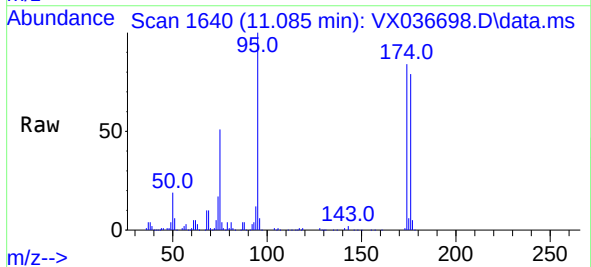
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE-(JUNE)

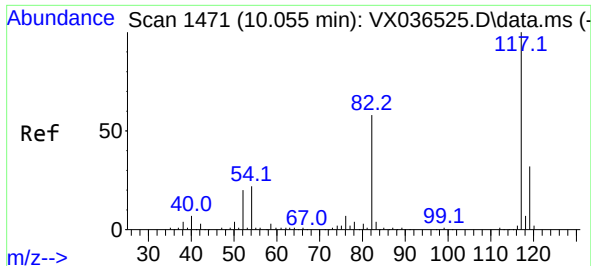
Tgt Ion: 69 Resp: 678
Ion Ratio Lower Upper
69 100
41 53.0 32.0 96.0
39 33.4 19.4 58.4



#56
Bromoform
Concen: 0.364 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.287 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

Tgt Ion: 173 Resp: 541
Ion Ratio Lower Upper
173 100
175 735.1 38.1 57.1#
254 0.0 6.7 10.1#

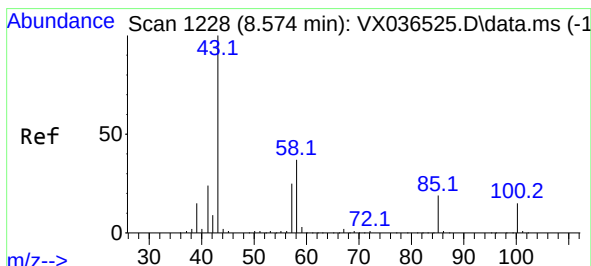
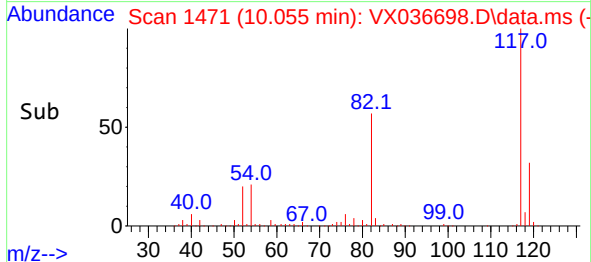
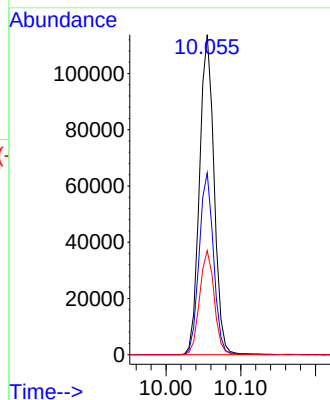
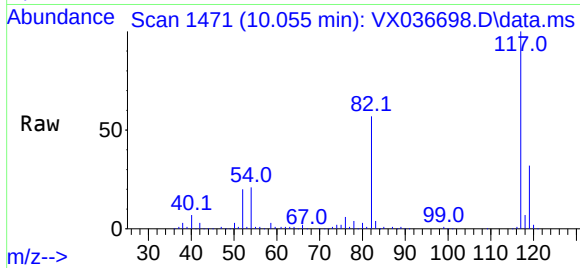




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

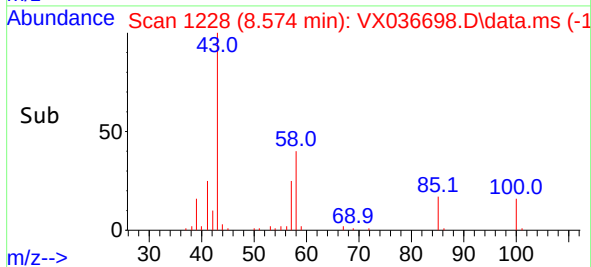
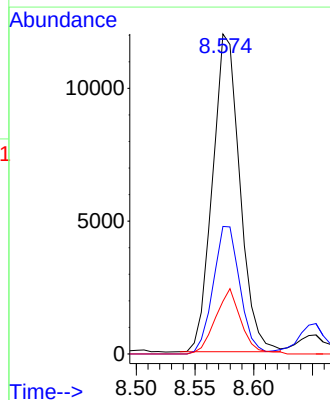
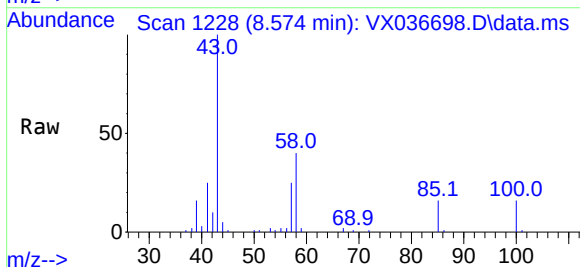
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE-(JUNE)

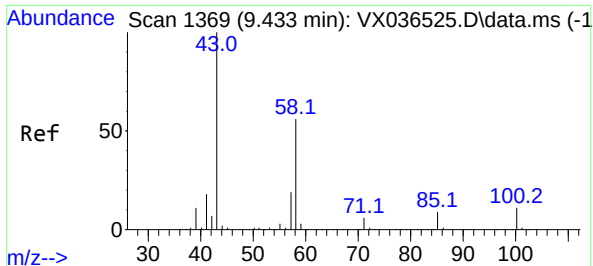
Tgt Ion:117 Resp: 154038
Ion Ratio Lower Upper
117 100
82 56.2 44.7 67.1
119 32.5 25.6 38.4



#58
4-Methyl-2-Pentanone
Concen: 6.078 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

Tgt Ion: 43 Resp: 19361
Ion Ratio Lower Upper
43 100
58 39.3 30.9 46.3
85 19.4 14.4 21.6





#59

2-Hexanone

Concen: 0.655 ug/l

RT: 9.439 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX036698.D

Acq: 28 Jul 2023 11:40

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE-(JUNE)

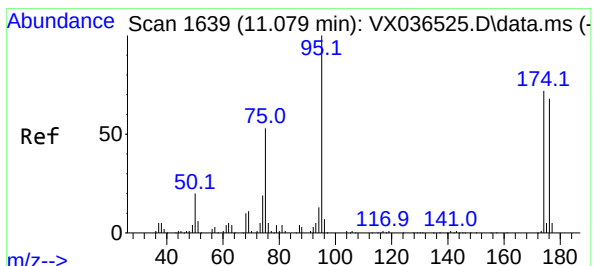
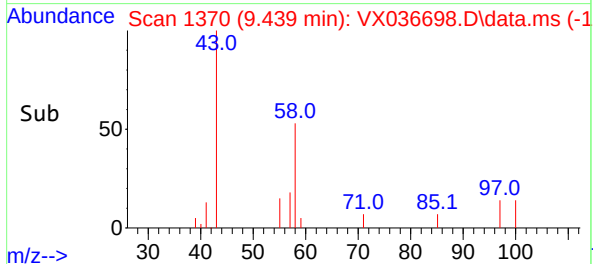
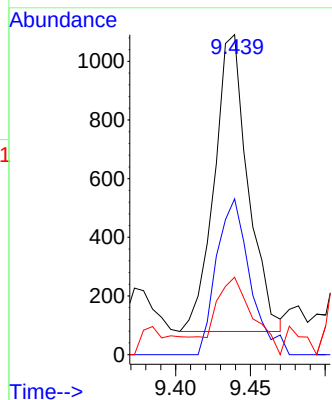
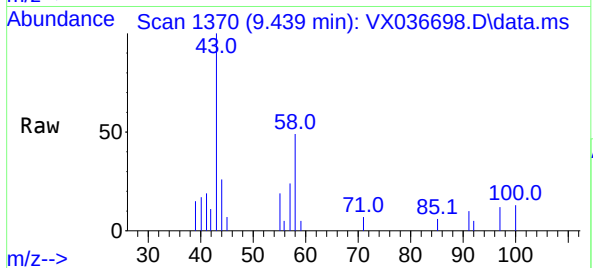
Tgt Ion: 43 Resp: 1588

Ion Ratio Lower Upper

43 100

58 52.0 43.4 65.2

57 26.9 15.1 22.7#



#60

4-Bromofluorobenzene

Concen: 29.802 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX036698.D

Acq: 28 Jul 2023 11:40

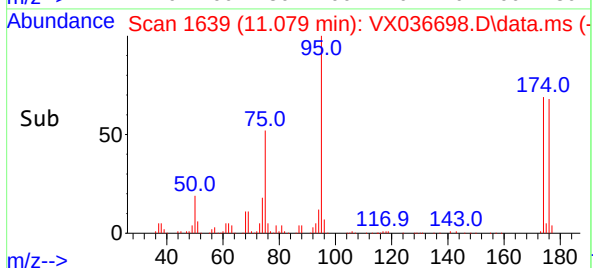
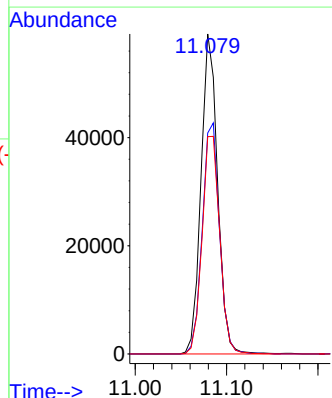
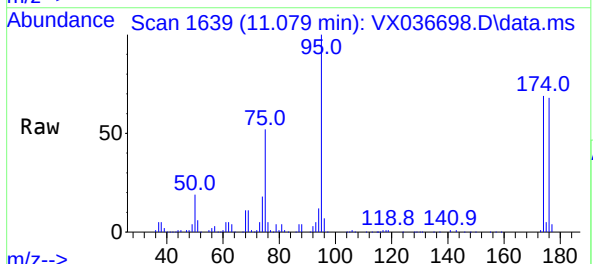
Tgt Ion: 95 Resp: 74465

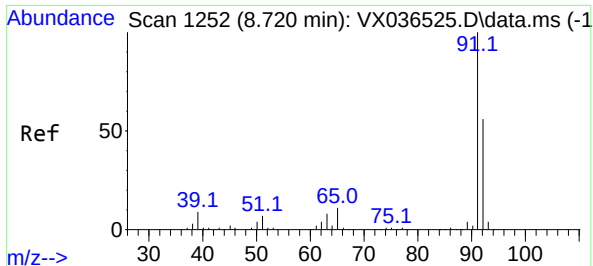
Ion Ratio Lower Upper

95 100

174 74.7 60.5 90.7

176 72.5 58.2 87.4

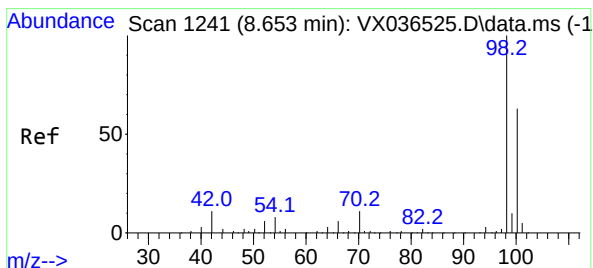
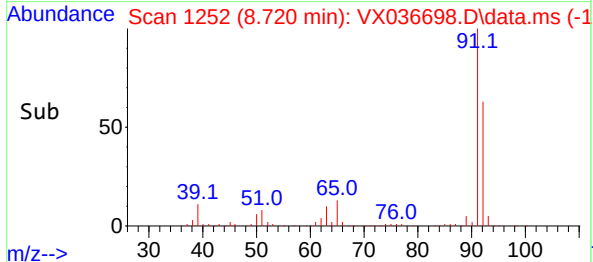
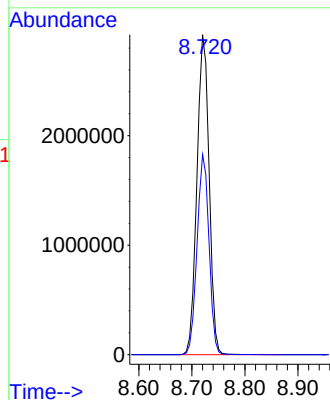
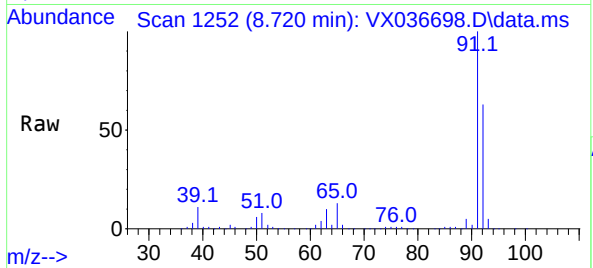




#62
Toluene
Concen: 537.638 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

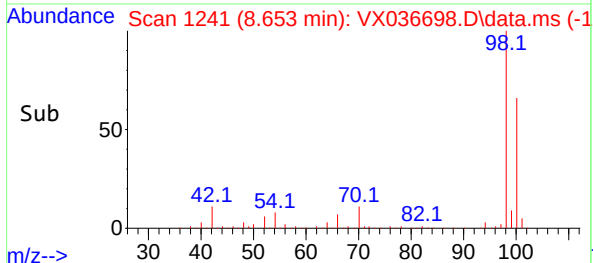
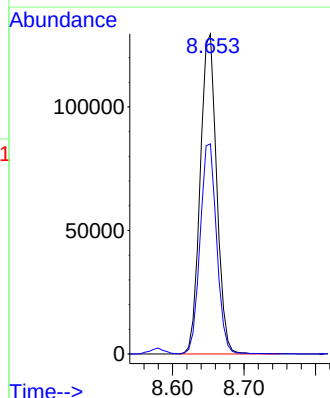
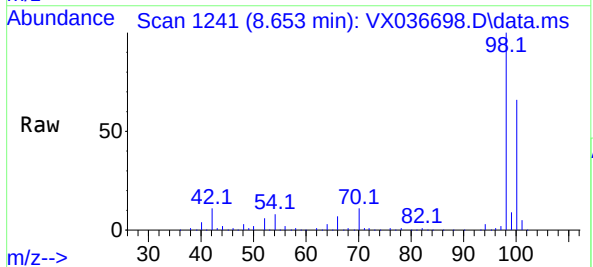
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE-(JUNE)

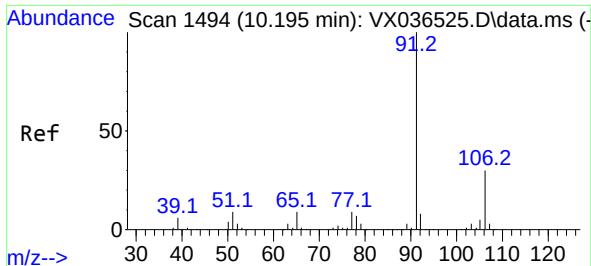
Tgt Ion: 91 Resp: 4646669
Ion Ratio Lower Upper
91 100
92 61.2 44.9 67.3



#63
Toluene-d8
Concen: 29.205 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

Tgt Ion: 98 Resp: 207011
Ion Ratio Lower Upper
98 100
100 65.6 51.6 77.4

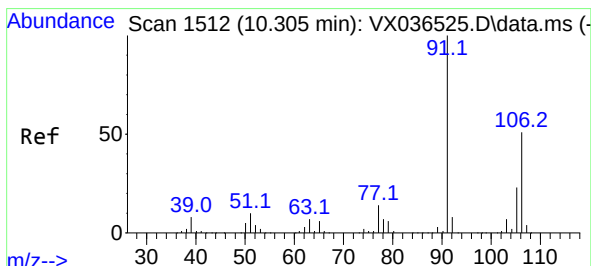
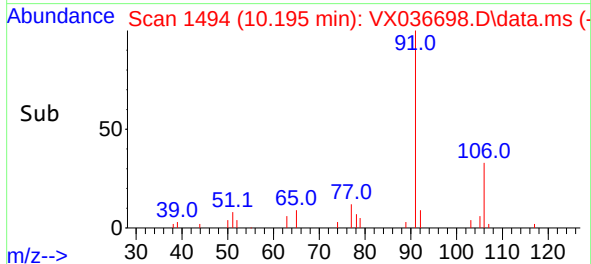
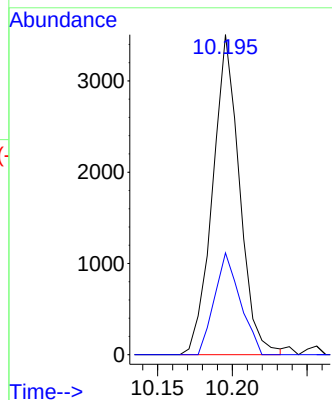
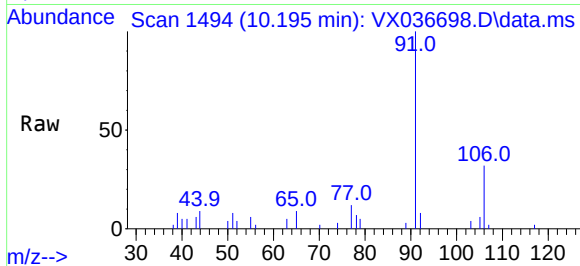




#66
Ethyl Benzene
Concen: 0.467 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

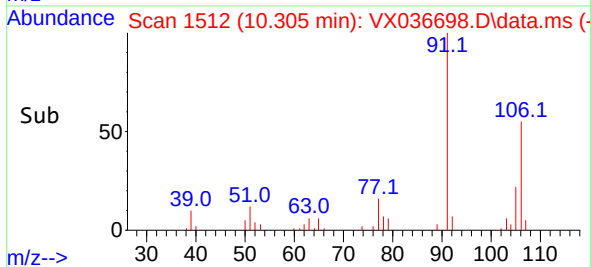
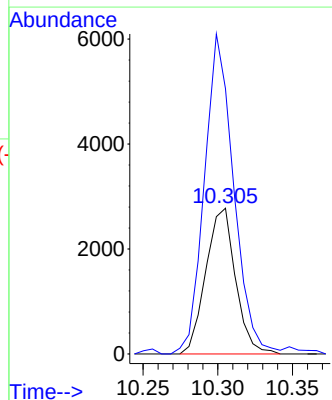
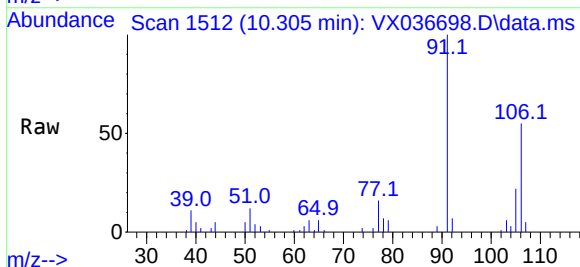
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE-(JUNE)

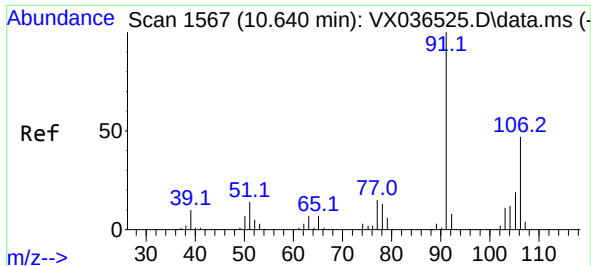
Tgt Ion: 91 Resp: 4390
Ion Ratio Lower Upper
91 100
106 31.8 24.2 36.4



#67
m/p-Xylenes
Concen: 1.048 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.000 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

Tgt Ion: 106 Resp: 3839
Ion Ratio Lower Upper
106 100
91 216.0 160.5 240.7

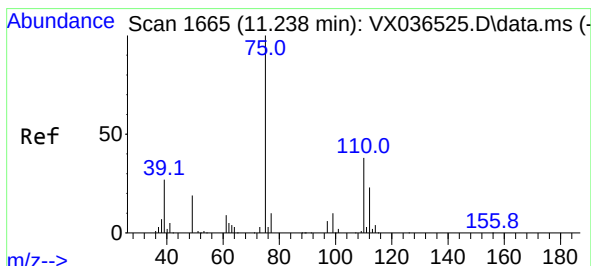
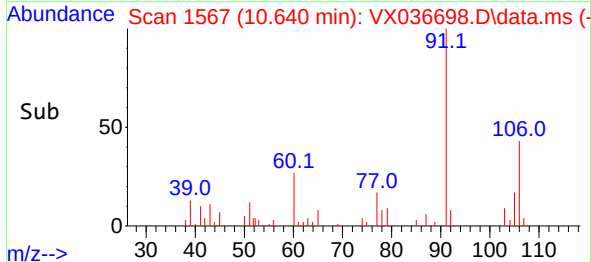
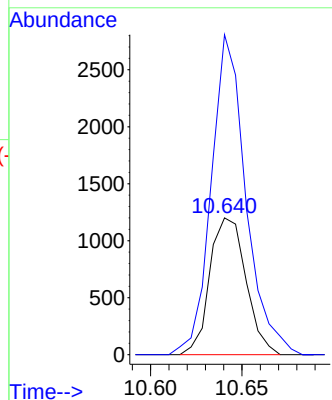
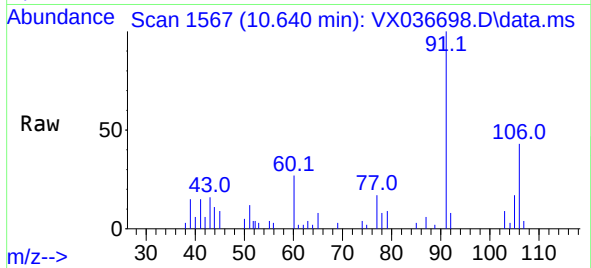




#68
o-Xylene
Concen: 0.455 ug/l
RT: 10.640 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

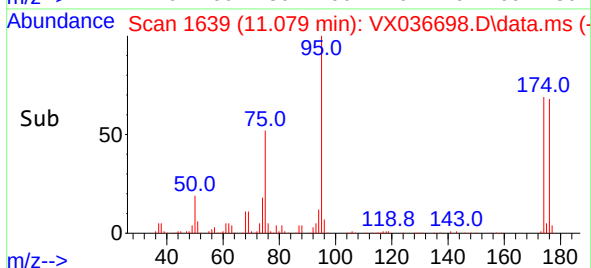
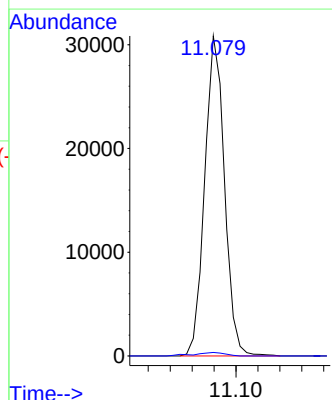
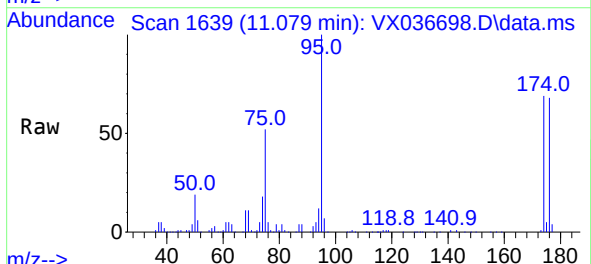
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE-(JUNE)

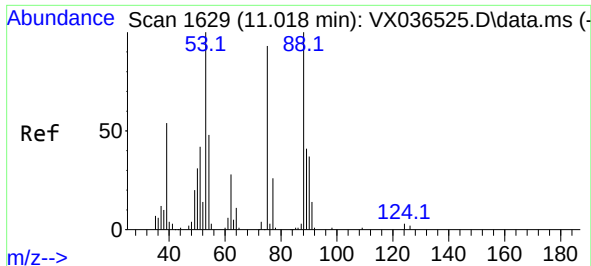
Tgt Ion:106 Resp: 1654
Ion Ratio Lower Upper
106 100
91 223.9 105.4 316.1



#72
1,2,3-Trichloropropane
Concen: 12.627 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

Tgt Ion: 75 Resp: 38656
Ion Ratio Lower Upper
75 100
77 1.3 0.0 77.2

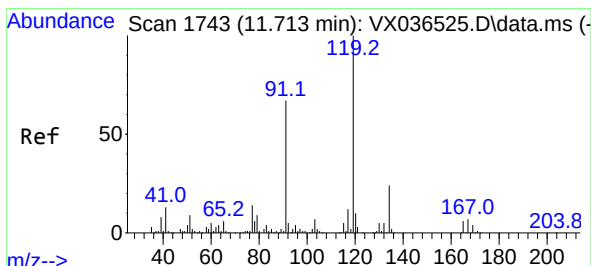
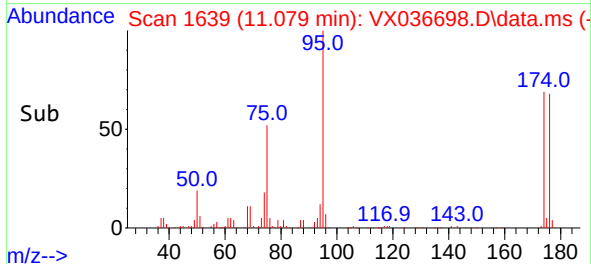
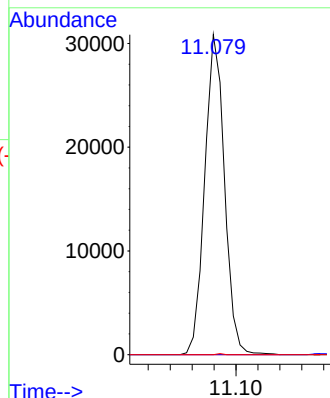
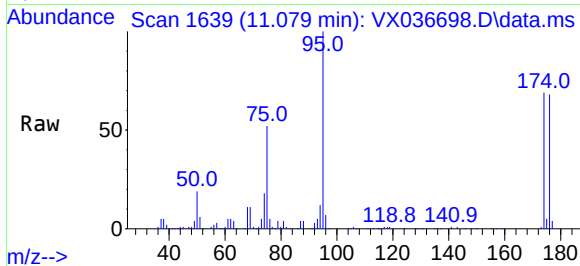




#77
t-1,4-Dichloro-2-butene
Concen: 38.452 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

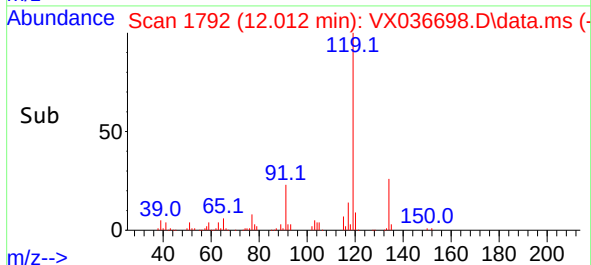
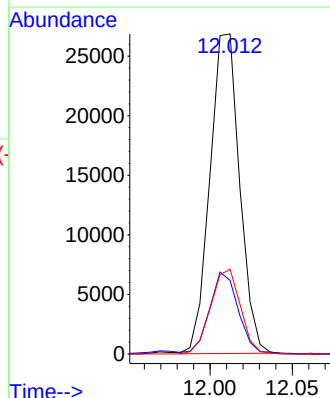
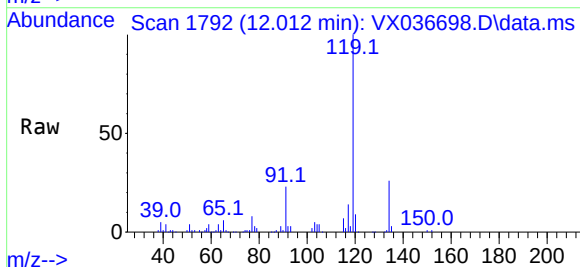
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE-(JUNE)

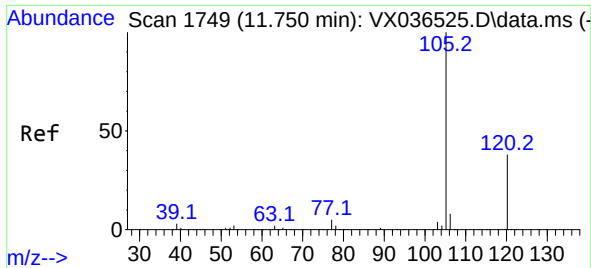
Tgt Ion: 75 Resp: 38656
Ion Ratio Lower Upper
75 100
53 0.0 53.9 161.7#
89 0.0 22.1 66.1#



#79
tert-butylbenzene
Concen: 4.565 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.299 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

Tgt Ion: 119 Resp: 33702
Ion Ratio Lower Upper
119 100
91 24.8 0.0 124.4
134 26.6 0.0 47.2

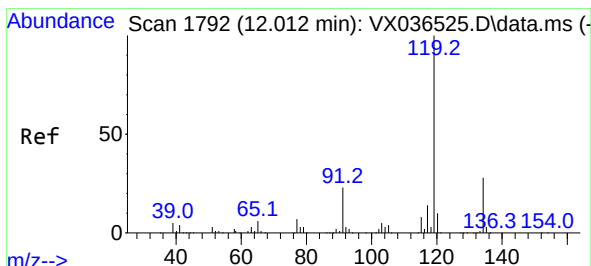
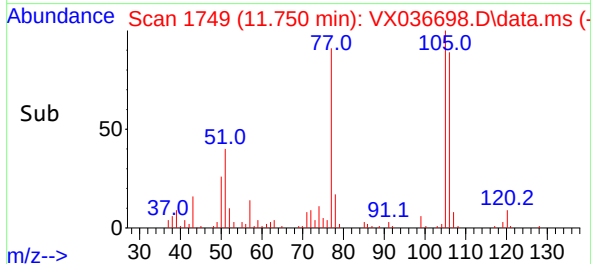
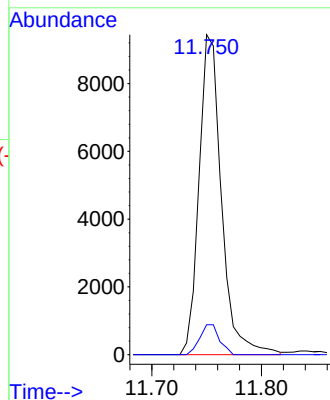
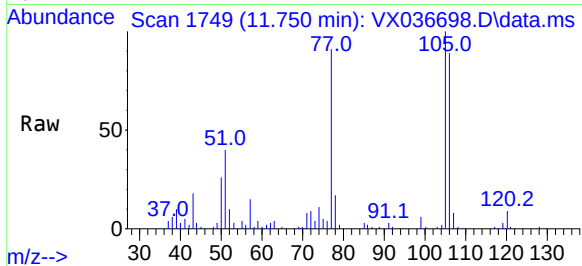




#80
 1,2,4-Trimethylbenzene
 Concen: 1.744 ug/l
 RT: 11.750 min Scan# 1749
 Delta R.T. 0.000 min
 Lab File: VX036698.D
 Acq: 28 Jul 2023 11:40

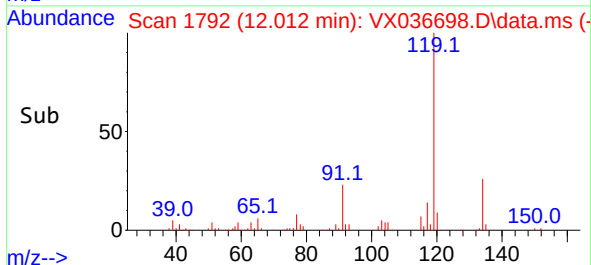
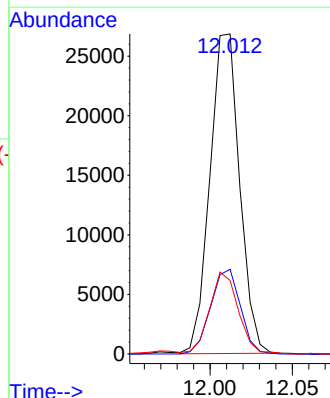
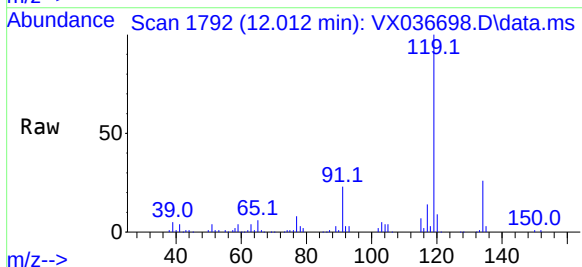
Instrument :
 MSVOA_X
 ClientSampleId :
 002-35TH-AVE-(JUNE)

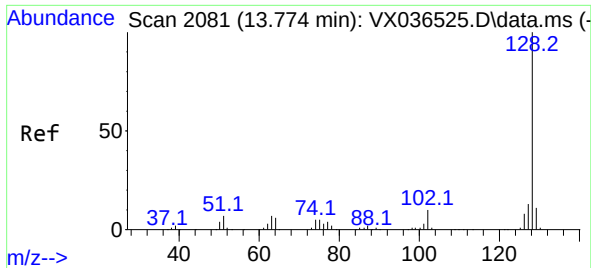
Tgt Ion:105 Resp: 13439
 Ion Ratio Lower Upper
 105 100
 120 8.2 0.0 90.2



#82
 p-Isopropyltoluene
 Concen: 4.359 ug/l
 RT: 12.012 min Scan# 1792
 Delta R.T. 0.000 min
 Lab File: VX036698.D
 Acq: 28 Jul 2023 11:40

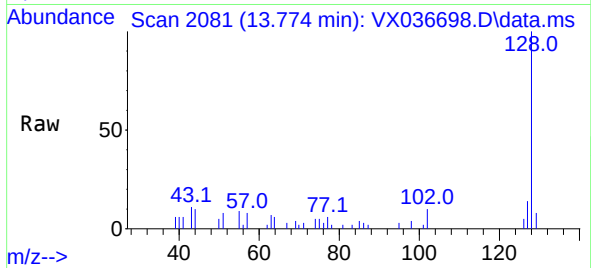
Tgt Ion:119 Resp: 33702
 Ion Ratio Lower Upper
 119 100
 134 26.6 0.0 53.2
 91 24.8 0.0 49.4





#91
Naphthalene
Concen: 0.476 ug/l
RT: 13.774 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX036698.D
Acq: 28 Jul 2023 11:40

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



Tgt Ion:	128	Resp:	4395
Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.3	15.5
129	10.6	8.7	13.1

