

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072324\
 Data File : VX042461.D
 Acq On : 23 Jul 2024 10:42
 Operator : JC/MD
 Sample : P3321-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 23 15:09:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 11:30:14 2024
 Response via : Initial Calibration

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

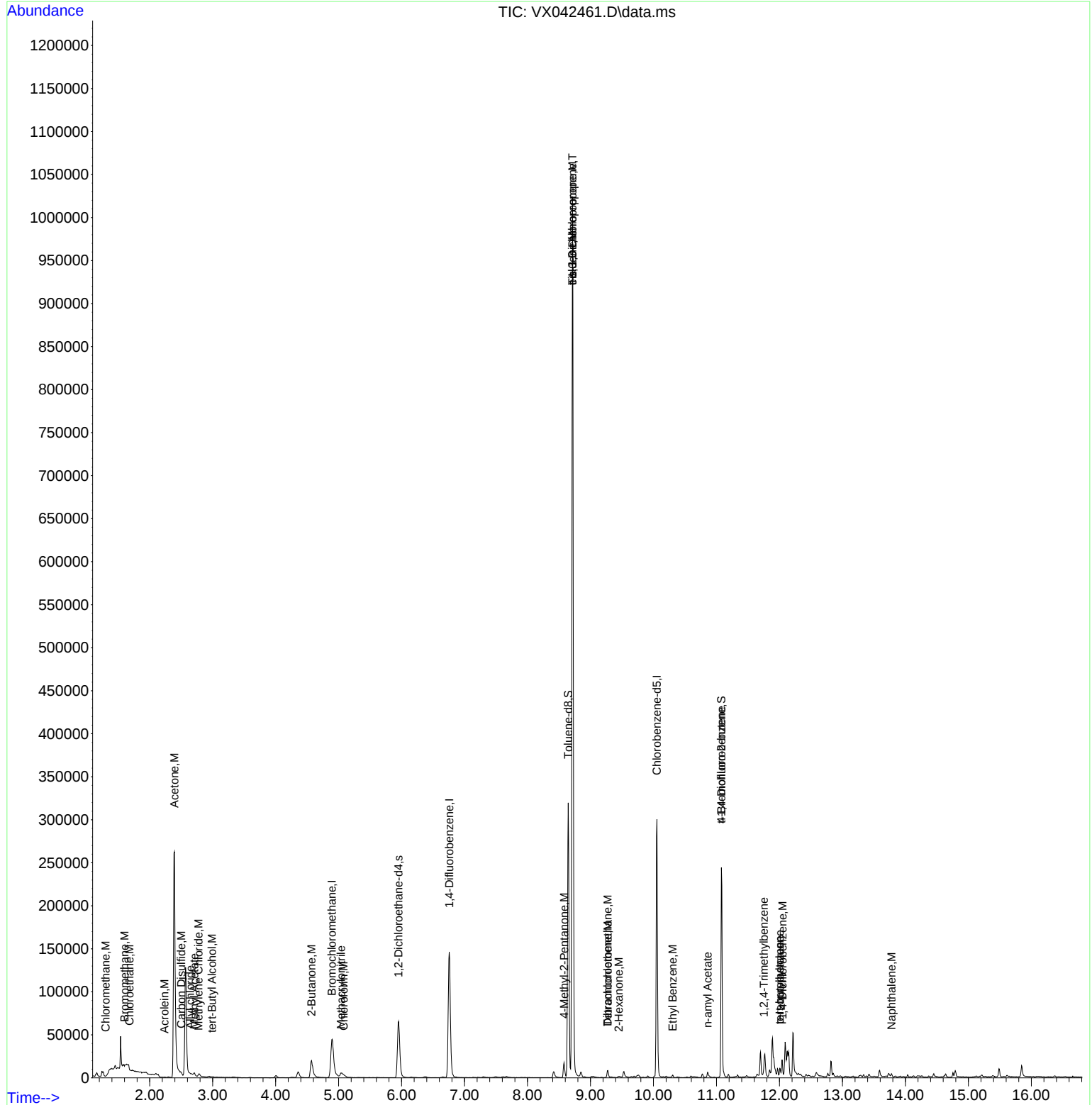
Internal Standards						
1) Bromochloromethane	4.891	128	25227	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	163334	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	147910	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	61962	34.290	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 114.300%#	
60) 4-Bromofluorobenzene	11.079	95	65555	28.486	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 94.967%	
63) Toluene-d8	8.647	98	195838	30.479	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.600%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.300	50	338	0.214	ug/l #	41
5) Bromomethane	1.599	94	250	0.317	ug/l	99
6) Chloroethane	1.678	64	782	1.155	ug/l #	44
12) Methyl Acetate	2.709	43	5648	2.336	ug/l	97
13) Acrolein	2.233	56	144	0.474	ug/l	88
15) Acetone	2.392	58	100631	372.651	ug/l	95
16) Carbon Disulfide	2.501	76	3055	1.051	ug/l	96
17) Allyl chloride	2.642	41	731	0.312	ug/l #	41
18) Methylene Chloride	2.776	84	1895	1.128	ug/l #	87
23) tert-Butyl Alcohol	2.989	59	111	0.321	ug/l #	100
25) Chloroform	5.080	83	1003	0.347	ug/l	91
30) 2-Butanone	4.568	43	38104	26.796	ug/l	99
35) Methacrylonitrile	5.038	41	1363	0.971	ug/l #	43
47) n-amyl Acetate	10.860	43	783	0.222	ug/l #	1
48) t-1,3-Dichloropropene	8.714	75	4290	1.849	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	4290	1.645	ug/l #	1
53) Dibromochloromethane	9.275	129	1505	0.753	ug/l #	11
58) 4-Methyl-2-Pentanone	8.580	43	10815	4.149	ug/l	98
59) 2-Hexanone	9.451	43	1199	0.587	ug/l	90
61) Tetrachloroethene	9.275	164	1634	0.911	ug/l	88
62) Toluene	8.714	91	660146	89.272	ug/l	100
66) Ethyl Benzene	10.305	91	1836	0.228	ug/l	90
77) t-1,4-Dichloro-2-butene	11.079	75	30352	37.048	ug/l #	7
79) tert-butylbenzene	12.006	119	4168	0.572	ug/l	69
80) 1,2,4-Trimethylbenzene	11.756	105	3010	0.438	ug/l	56
82) p-Isopropyltoluene	12.006	119	4168	0.558	ug/l	98
84) 1,4-Dichlorobenzene	12.049	146	925	0.222	ug/l	90
91) Naphthalene	13.780	128	2629	0.307	ug/l	98

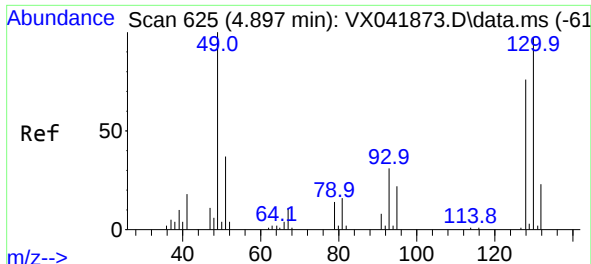
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072324\
Data File : VX042461.D
Acq On : 23 Jul 2024 10:42
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Sample : P3321-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

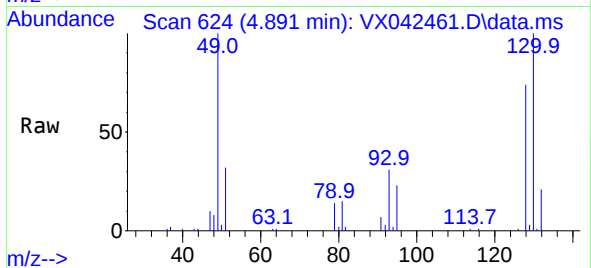
Quant Time: Jul 23 15:09:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 19 11:30:14 2024
Response via : Initial Calibration



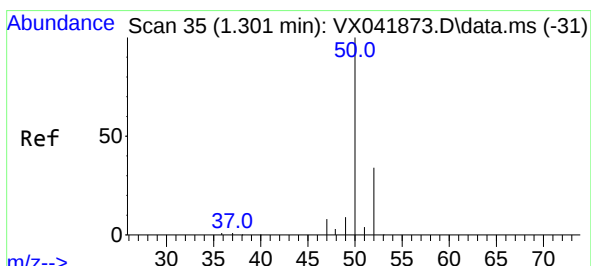
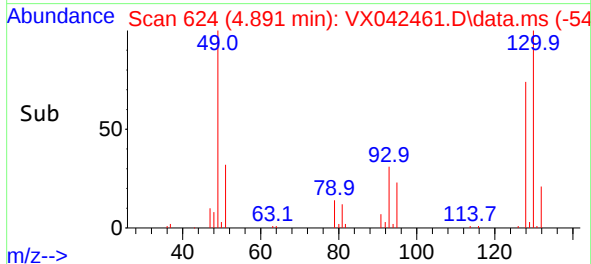
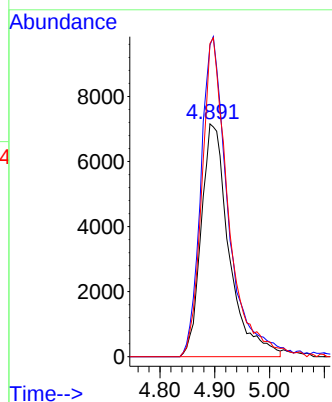


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.891 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

Instrument :
MSVOA_X
ClientSampleId :

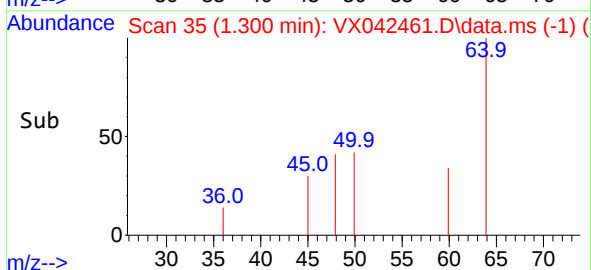
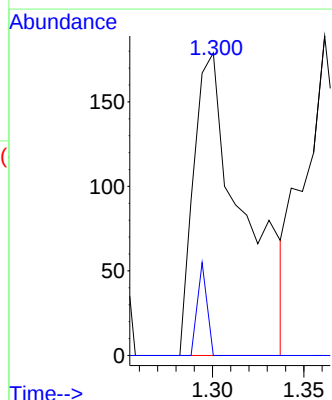
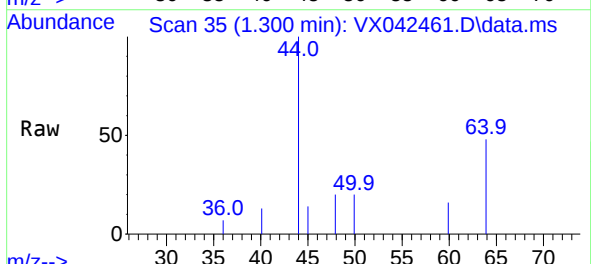


Tgt Ion:128 Resp: 25227
Ion Ratio Lower Upper
128 100
49 134.9 0.0 338.5
130 123.8 0.0 324.5

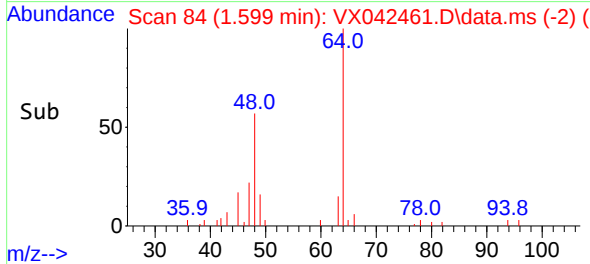
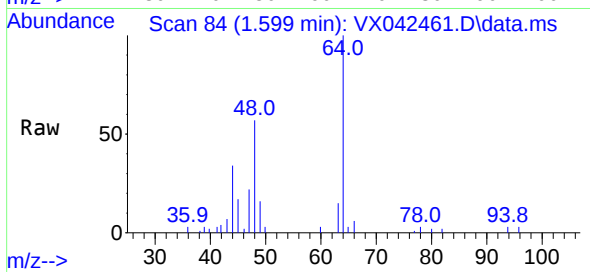
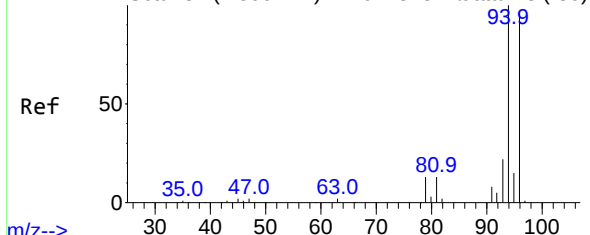


#3
Chloromethane
Concen: 0.214 ug/l
RT: 1.300 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

Tgt Ion: 50 Resp: 338
Ion Ratio Lower Upper
50 100
52 0.0 26.9 40.3#



Abundance Scan 84 (1.599 min): VX041873.D\data.ms (-80)



#5

Bromomethane

Concen: 0.317 ug/l

RT: 1.599 min Scan# 84

Delta R.T. -0.000 min

Lab File: VX042461.D

Acq: 23 Jul 2024 10:42

Instrument :

MSVOA_X

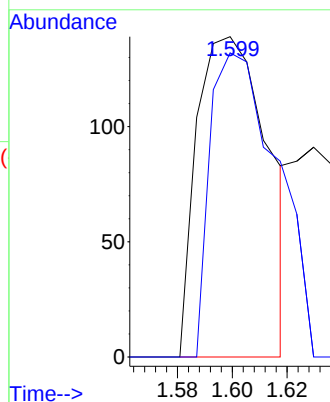
ClientSampleId :

Tgt Ion: 94 Resp: 250

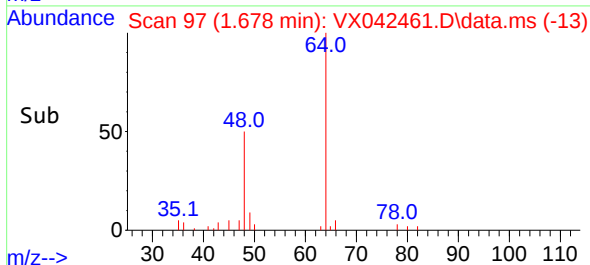
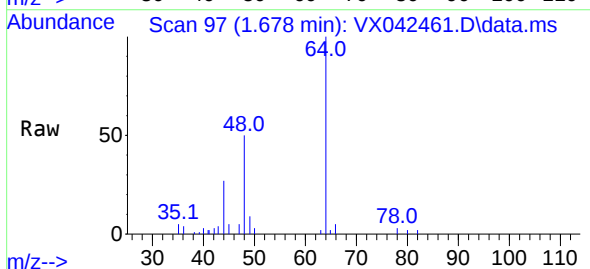
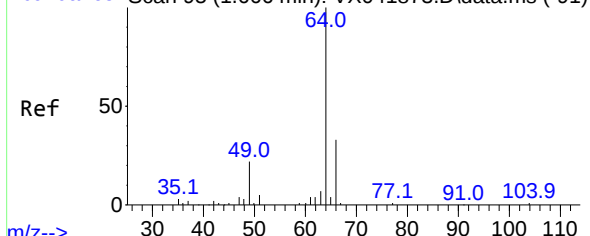
Ion Ratio Lower Upper

94 100

96 95.0 76.6 115.0



Abundance Scan 95 (1.666 min): VX041873.D\data.ms (-91)



#6

Chloroethane

Concen: 1.155 ug/l

RT: 1.678 min Scan# 97

Delta R.T. 0.012 min

Lab File: VX042461.D

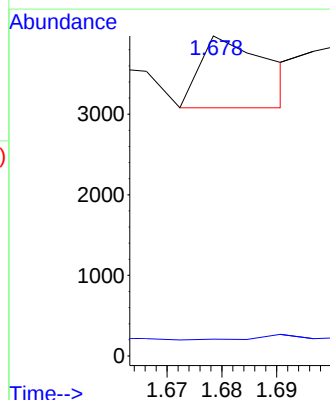
Acq: 23 Jul 2024 10:42

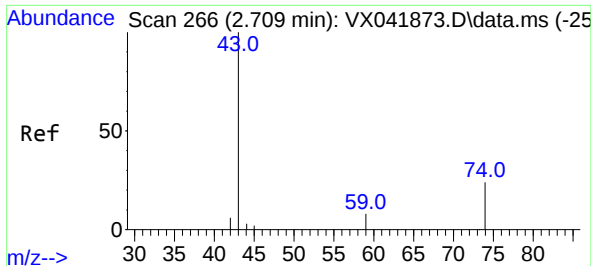
Tgt Ion: 64 Resp: 782

Ion Ratio Lower Upper

64 100

66 1.1 26.4 39.6#

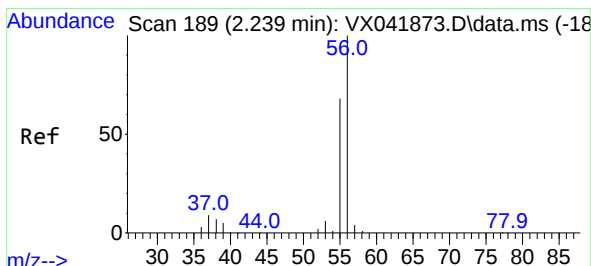
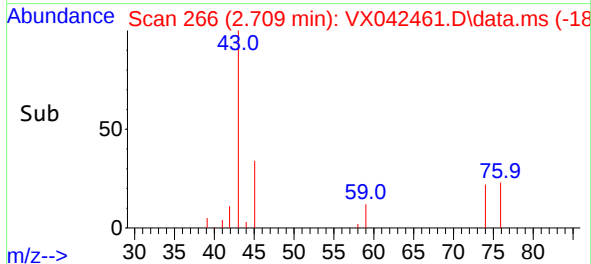
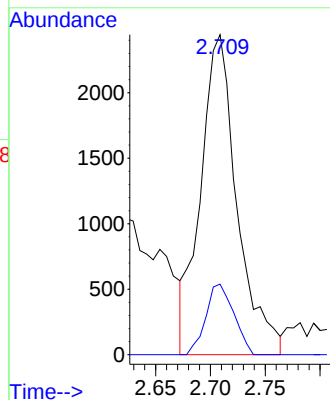
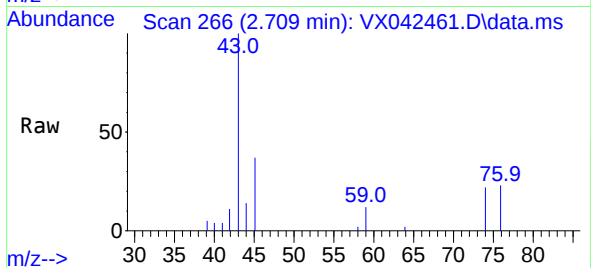




#12
Methyl Acetate
Concen: 2.336 ug/l
RT: 2.709 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

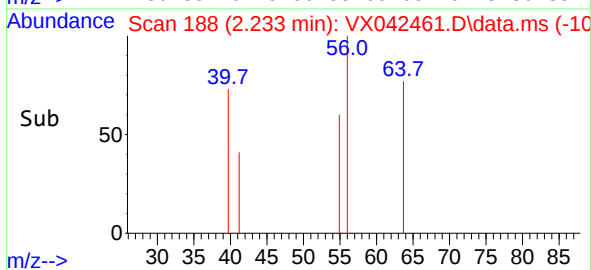
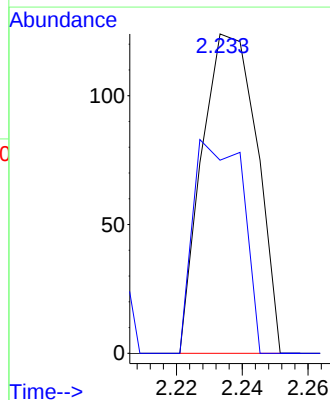
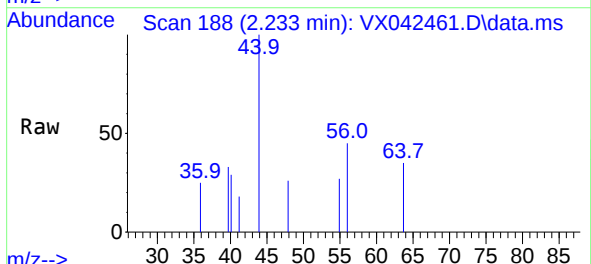
Instrument :
MSVOA_X
ClientSampleId :

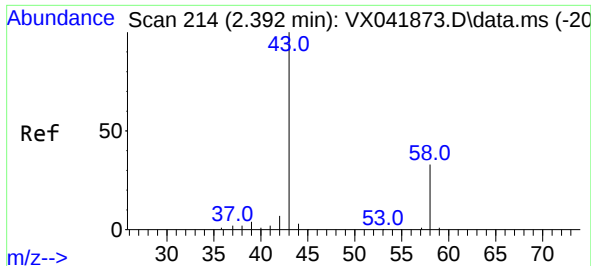
Tgt Ion: 43 Resp: 5648
Ion Ratio Lower Upper
43 100
74 25.8 19.4 29.2



#13
Acrolein
Concen: 0.474 ug/l
RT: 2.233 min Scan# 188
Delta R.T. -0.006 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

Tgt Ion: 56 Resp: 144
Ion Ratio Lower Upper
56 100
55 59.7 55.4 83.0





#15

Acetone

Concen: 372.651 ug/l

RT: 2.392 min Scan# 214

Delta R.T. -0.000 min

Lab File: VX042461.D

Acq: 23 Jul 2024 10:42

Instrument :

MSVOA_X

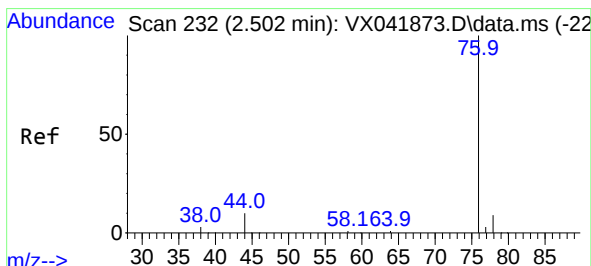
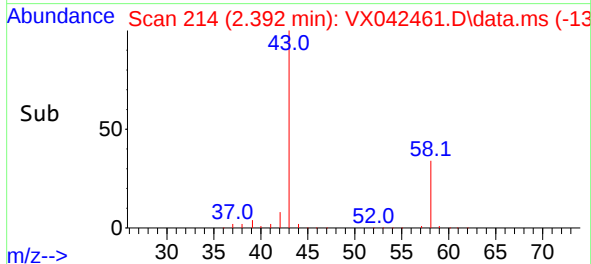
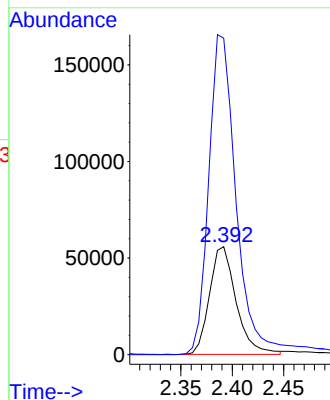
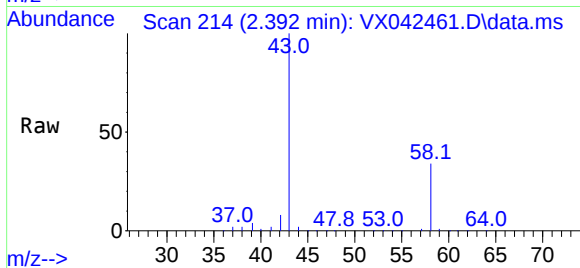
ClientSampleId :

Tgt Ion: 58 Resp: 100631

Ion Ratio Lower Upper

58 100

43 293.8 243.4 365.2



#16

Carbon Disulfide

Concen: 1.051 ug/l

RT: 2.501 min Scan# 232

Delta R.T. -0.000 min

Lab File: VX042461.D

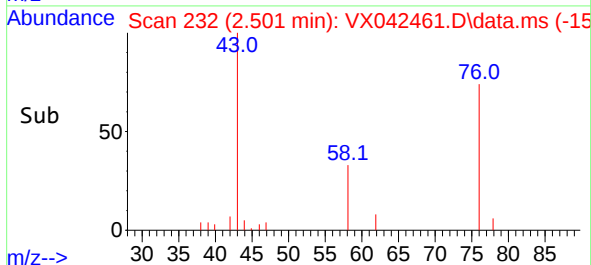
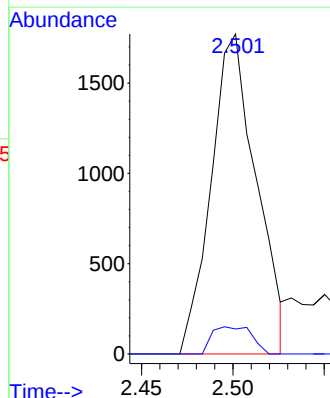
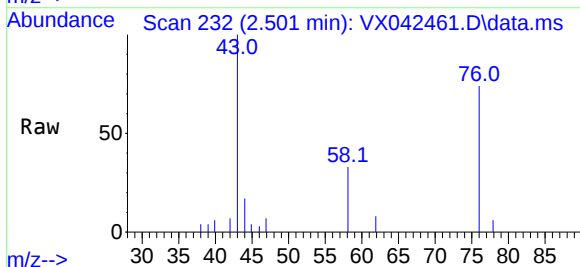
Acq: 23 Jul 2024 10:42

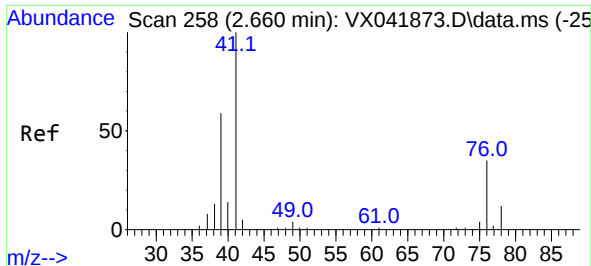
Tgt Ion: 76 Resp: 3055

Ion Ratio Lower Upper

76 100

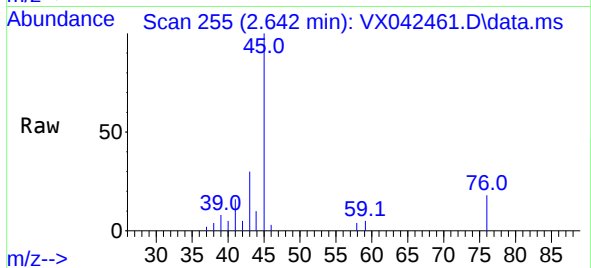
78 7.8 7.3 10.9



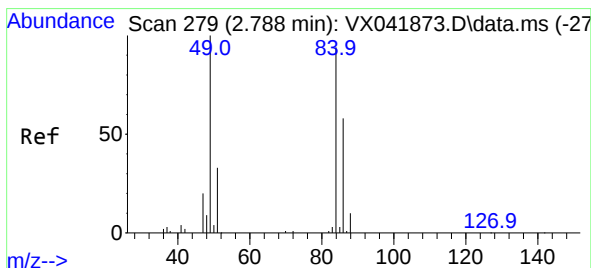
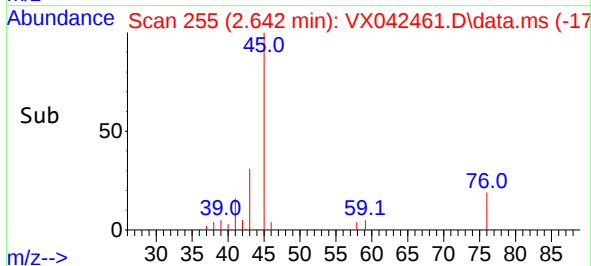
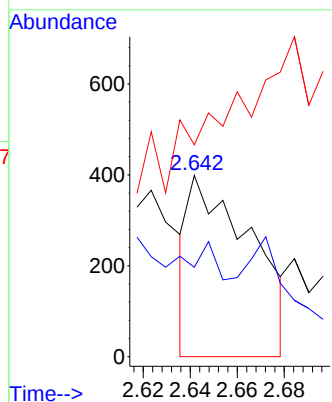


#17
 Allyl chloride
 Concen: 0.312 ug/l
 RT: 2.642 min Scan# 21
 Delta R.T. -0.018 min
 Lab File: VX042461.D
 Acq: 23 Jul 2024 10:42

Instrument :
 MSVOA_X
 ClientSampleId :

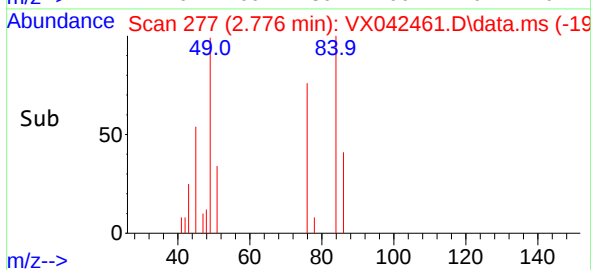
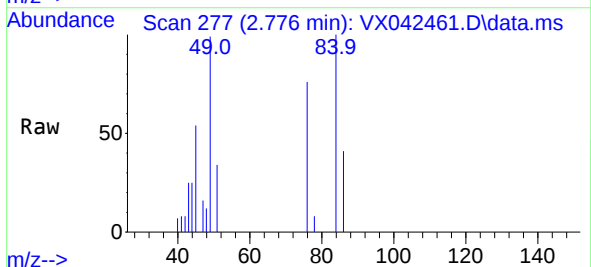
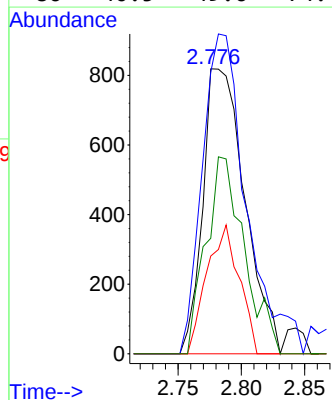


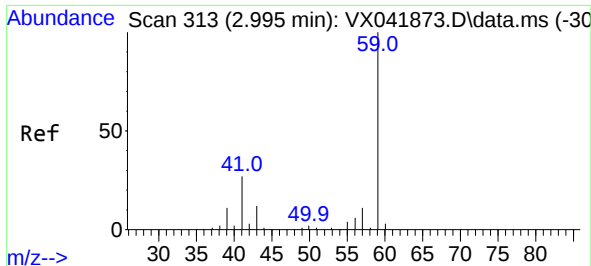
Tgt Ion: 41 Resp: 731
 Ion Ratio Lower Upper
 41 100
 39 15.7 29.6 88.8#
 76 0.0 18.1 54.4#



#18
 Methylene Chloride
 Concen: 1.128 ug/l
 RT: 2.776 min Scan# 277
 Delta R.T. -0.012 min
 Lab File: VX042461.D
 Acq: 23 Jul 2024 10:42

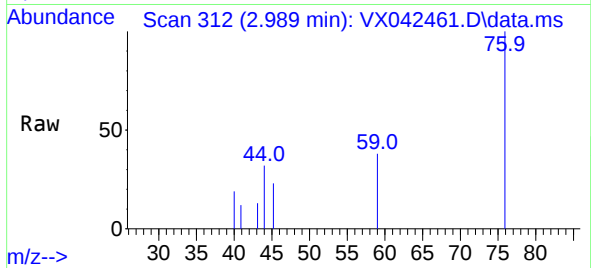
Tgt Ion: 84 Resp: 1895
 Ion Ratio Lower Upper
 84 100
 49 98.8 85.3 127.9
 51 34.3 28.5 42.7
 86 40.5 49.6 74.4#



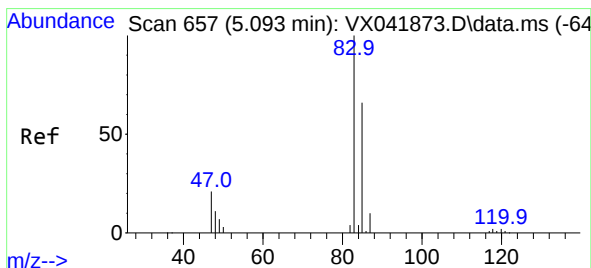
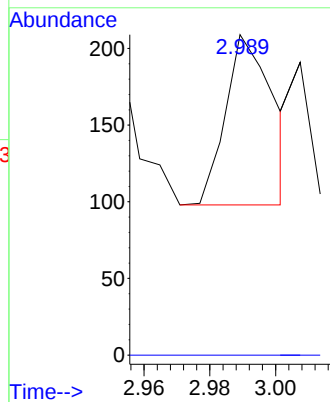
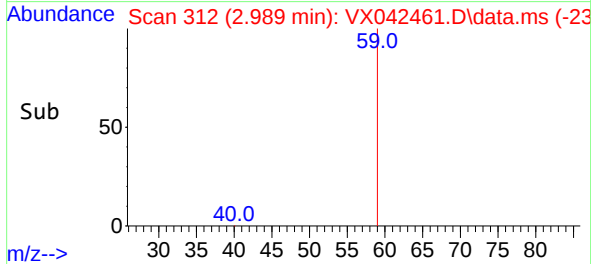


#23
tert-Butyl Alcohol
Concen: 0.321 ug/l
RT: 2.989 min Scan# 311
Delta R.T. -0.006 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

Instrument :
MSVOA_X
ClientSampleId :

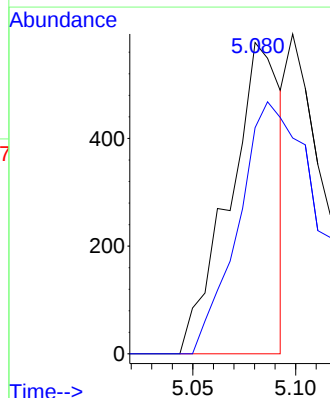
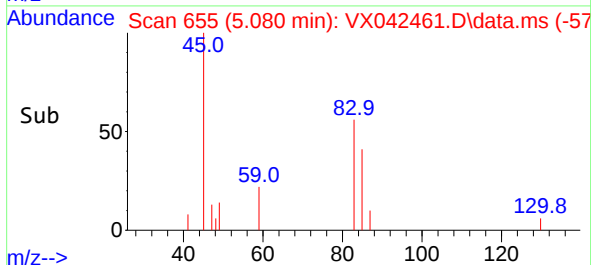
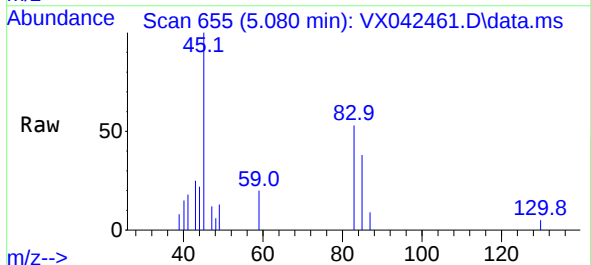


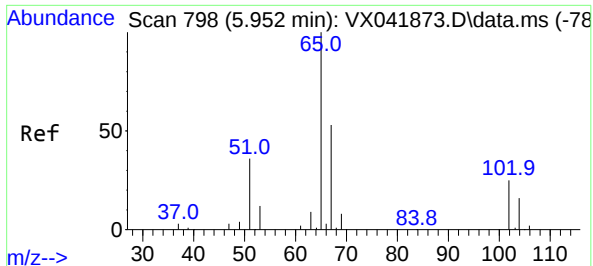
Tgt Ion: 59 Resp: 111
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 0.347 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.012 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

Tgt Ion: 83 Resp: 1003
Ion Ratio Lower Upper
83 100
85 72.7 52.7 79.1

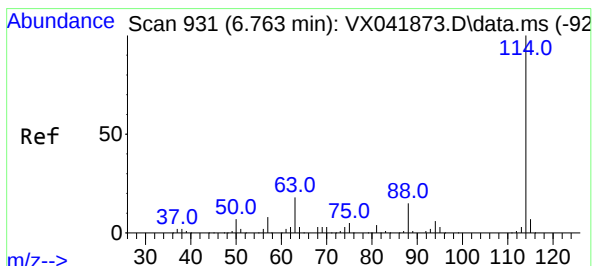
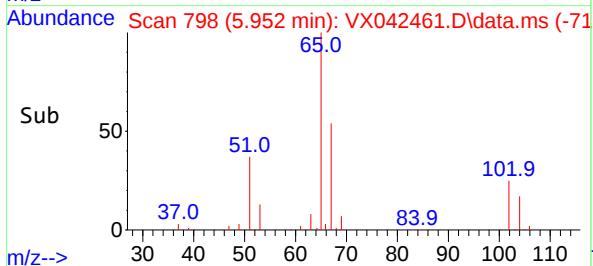
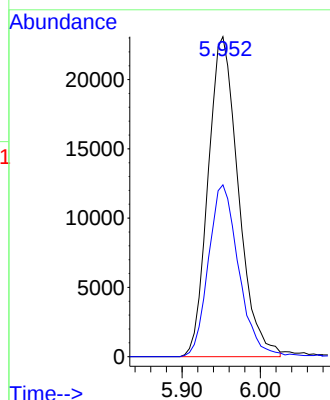
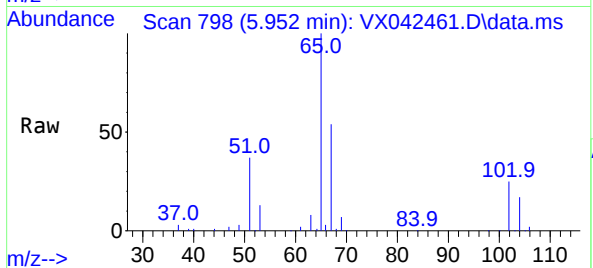




#27
1,2-Dichloroethane-d4
Concen: 34.290 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

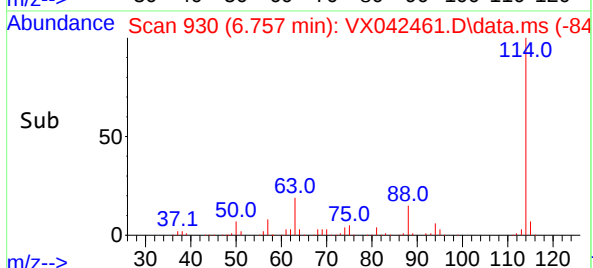
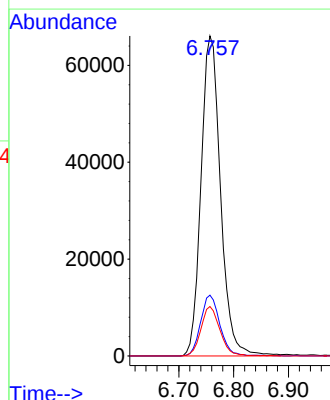
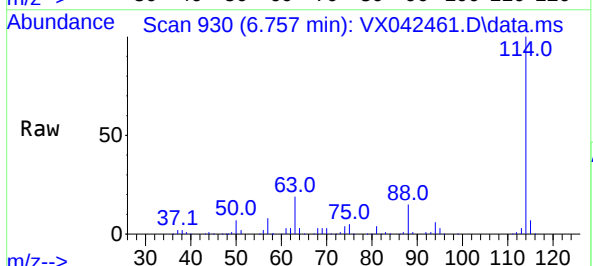
Instrument :
MSVOA_X
ClientSampleId :

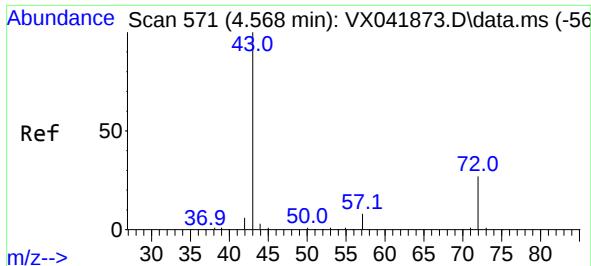
Tgt Ion: 65 Resp: 61962
Ion Ratio Lower Upper
65 100
67 53.5 43.4 65.0



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.006 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

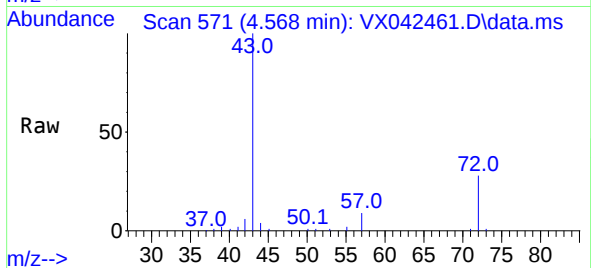
Tgt Ion: 114 Resp: 163334
Ion Ratio Lower Upper
114 100
63 18.6 14.6 21.8
88 15.0 11.8 17.8



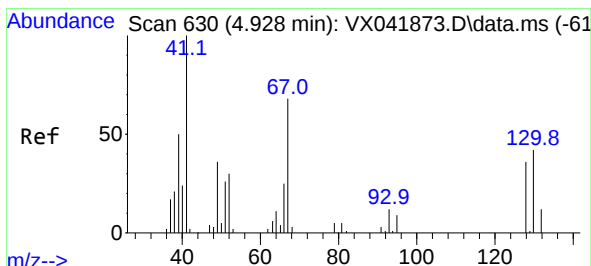
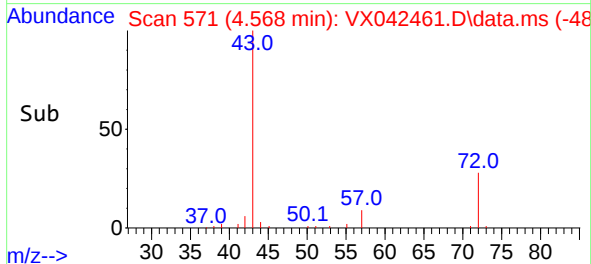
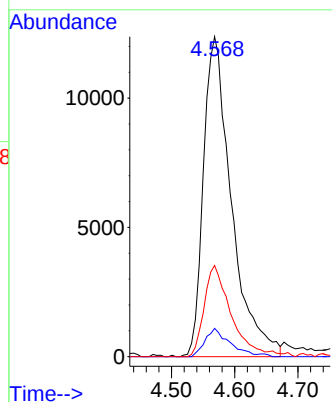


#30
2-Butanone
Concen: 26.796 ug/l
RT: 4.568 min Scan# 51
Delta R.T. -0.000 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

Instrument :
MSVOA_X
ClientSampleId :

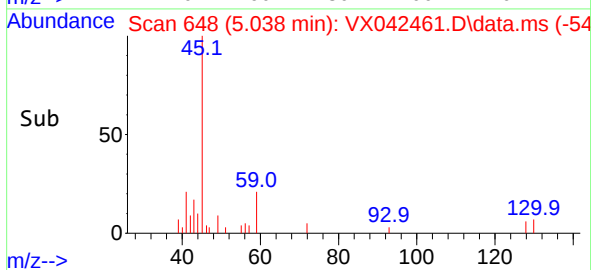
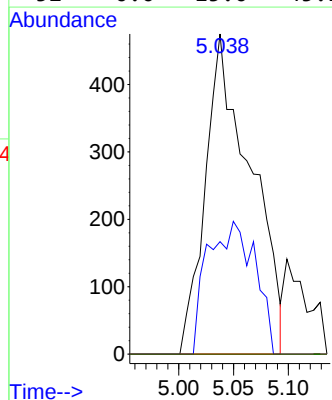
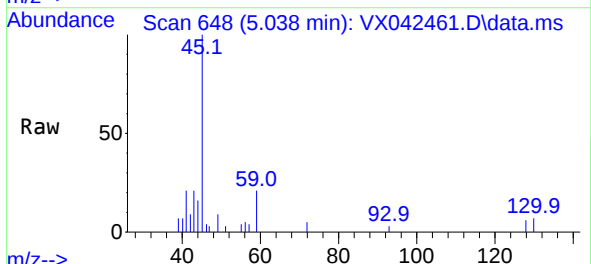


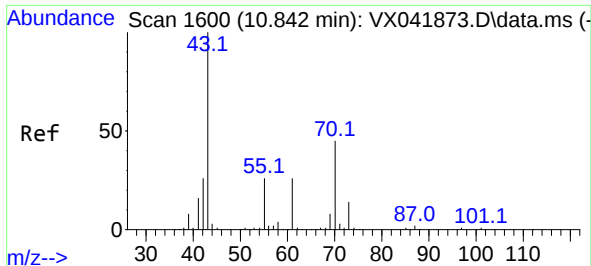
Tgt Ion: 43 Resp: 38104
Ion Ratio Lower Upper
43 100
57 7.8 6.5 9.7
72 26.7 22.0 33.0



#35
Methacrylonitrile
Concen: 0.971 ug/l
RT: 5.038 min Scan# 648
Delta R.T. 0.110 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

Tgt Ion: 41 Resp: 1363
Ion Ratio Lower Upper
41 100
39 35.2 25.2 75.6
67 0.0 34.2 102.5#
52 0.0 15.0 45.1#





#47

n-amyl Acetate

Concen: 0.222 ug/l

RT: 10.860 min Scan# 1603

Delta R.T. 0.018 min

Lab File: VX042461.D

Acq: 23 Jul 2024 10:42

Instrument :

MSVOA_X

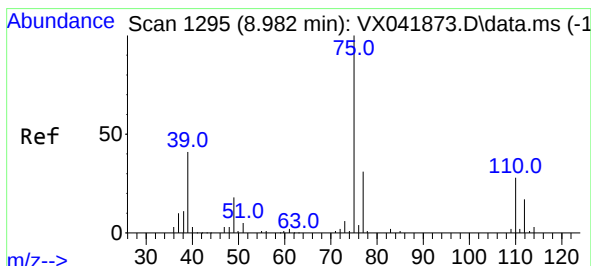
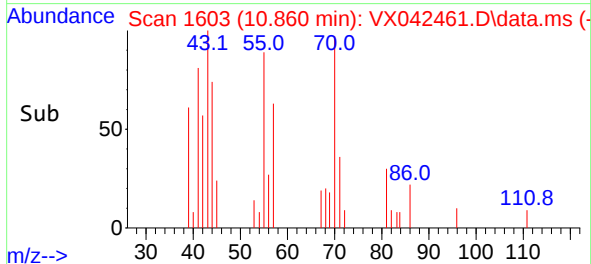
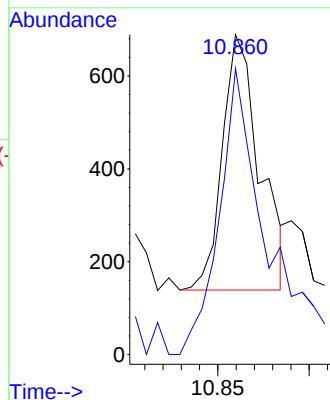
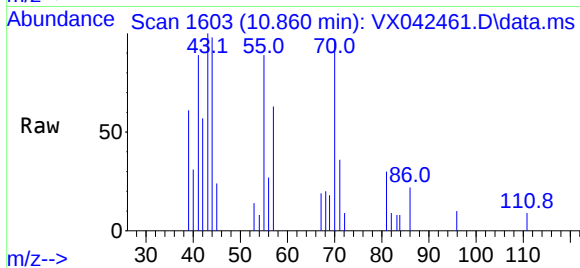
ClientSampleId :

Tgt Ion: 43 Resp: 783

Ion Ratio Lower Upper

43 100

55 138.4 21.0 31.4#



#48

t-1,3-Dichloropropene

Concen: 1.849 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.268 min

Lab File: VX042461.D

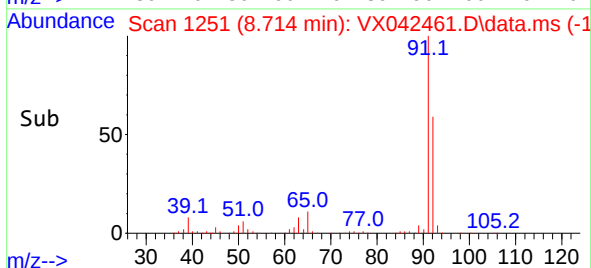
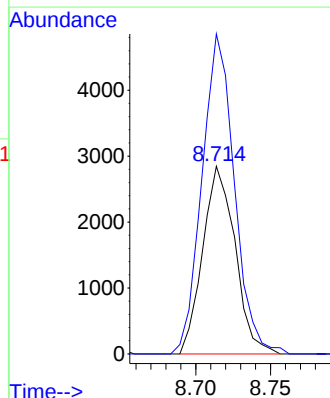
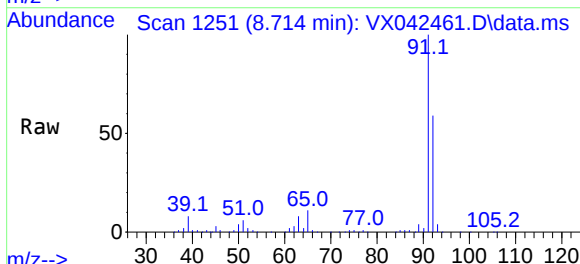
Acq: 23 Jul 2024 10:42

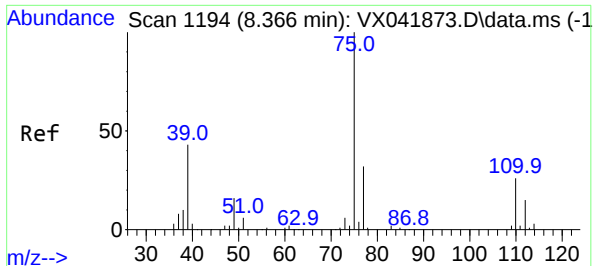
Tgt Ion: 75 Resp: 4290

Ion Ratio Lower Upper

75 100

77 167.3 25.1 37.7#

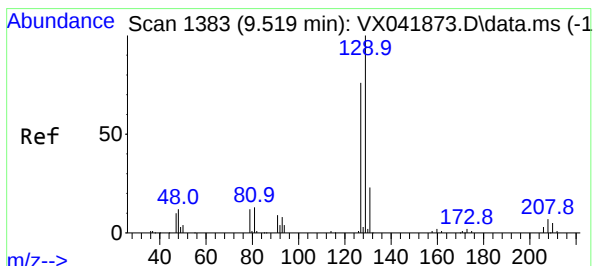
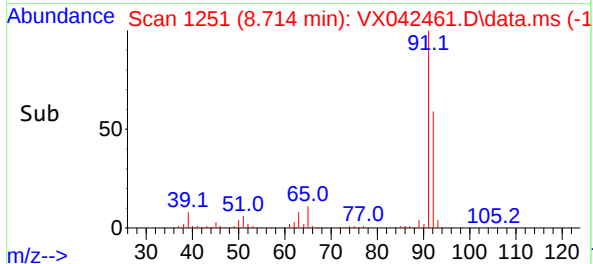
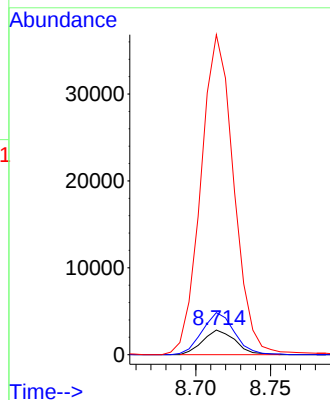
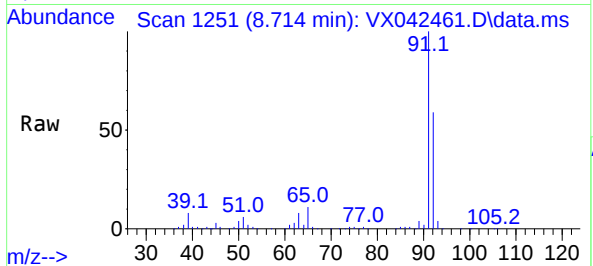




#49
cis-1,3-Dichloropropene
Concen: 1.645 ug/l
RT: 8.714 min Scan# 1194
Delta R.T. 0.347 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

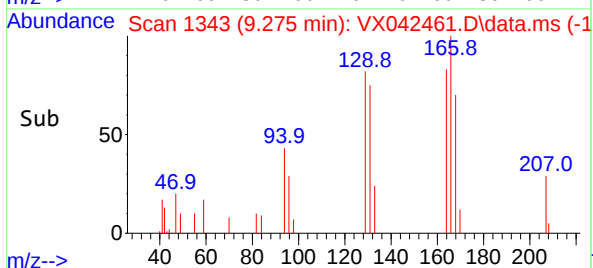
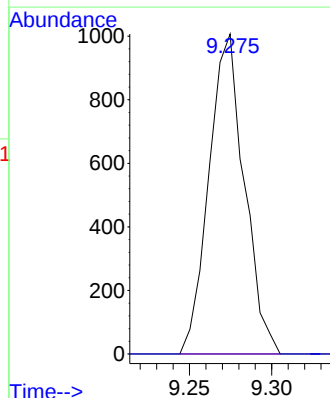
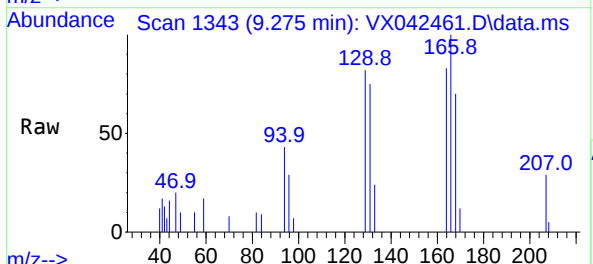
Instrument :
MSVOA_X
ClientSampleId :

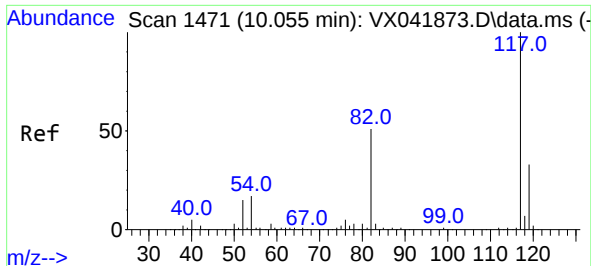
Tgt Ion: 75 Resp: 4290
Ion Ratio Lower Upper
75 100
77 167.3 25.8 38.8#
39 1282.7 34.8 52.2#



#53
Dibromochloromethane
Concen: 0.753 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.244 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

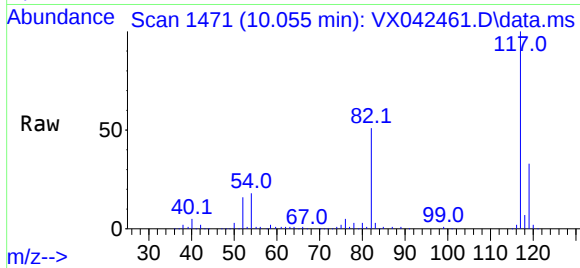
Tgt Ion:129 Resp: 1505
Ion Ratio Lower Upper
129 100
127 0.0 38.8 116.4#



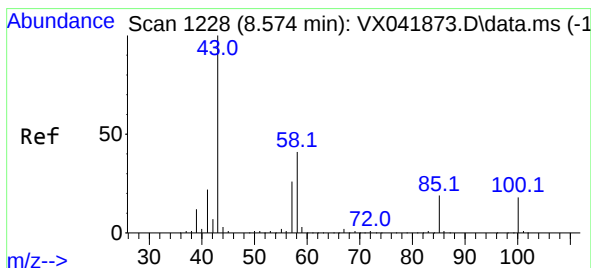
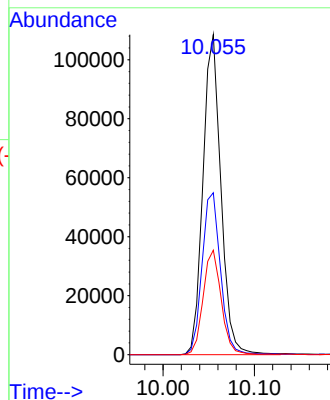
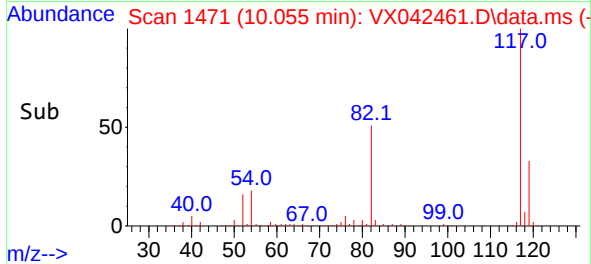


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

Instrument :
MSVOA_X
ClientSampleId :

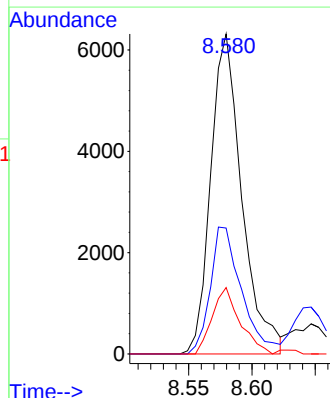
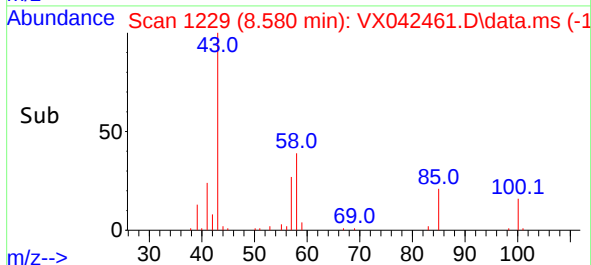
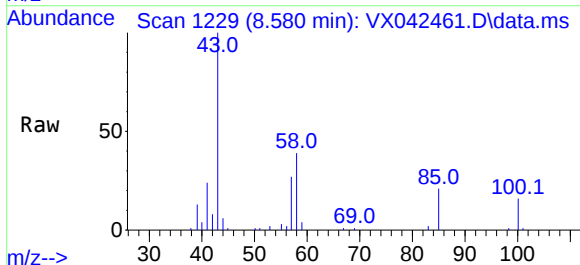


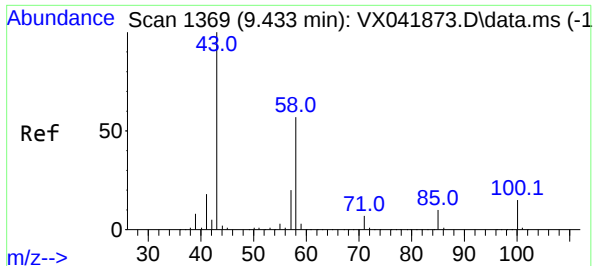
Tgt Ion:117 Resp: 147910
Ion Ratio Lower Upper
117 100
82 51.9 41.1 61.7
119 32.8 26.1 39.1



#58
4-Methyl-2-Pentanone
Concen: 4.149 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

Tgt Ion: 43 Resp: 10815
Ion Ratio Lower Upper
43 100
58 40.0 33.2 49.8
85 18.4 15.5 23.3





#59

2-Hexanone

Concen: 0.587 ug/l

RT: 9.451 min Scan# 11

Delta R.T. 0.018 min

Lab File: VX042461.D

Acq: 23 Jul 2024 10:42

Instrument :

MSVOA_X

ClientSampleId :

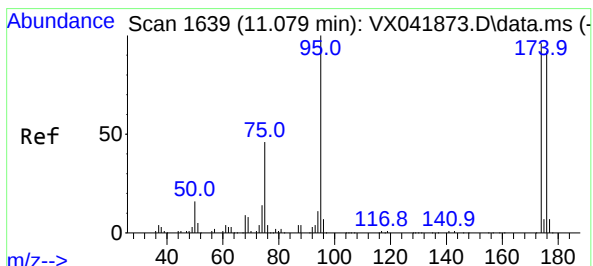
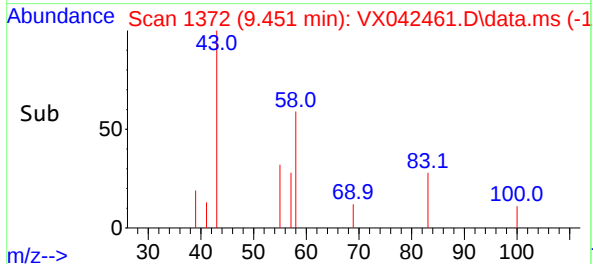
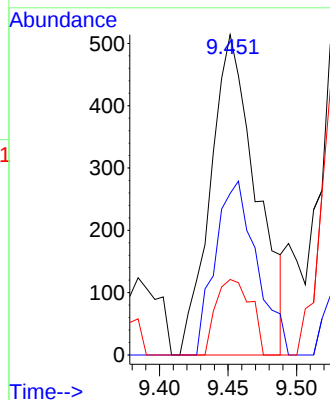
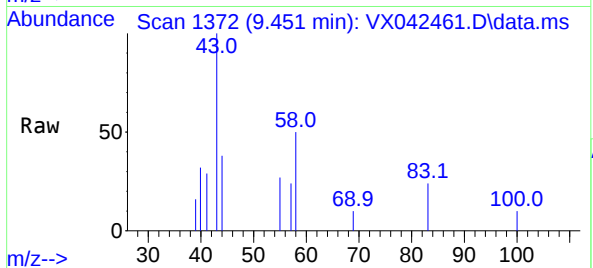
Tgt Ion: 43 Resp: 1199

Ion Ratio Lower Upper

43 100

58 49.0 46.0 69.0

57 17.9 15.8 23.6



#60

4-Bromofluorobenzene

Concen: 28.486 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX042461.D

Acq: 23 Jul 2024 10:42

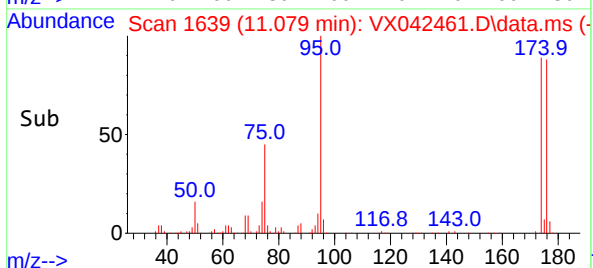
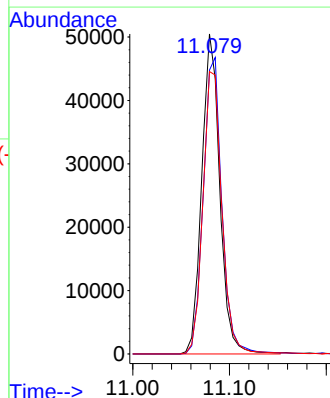
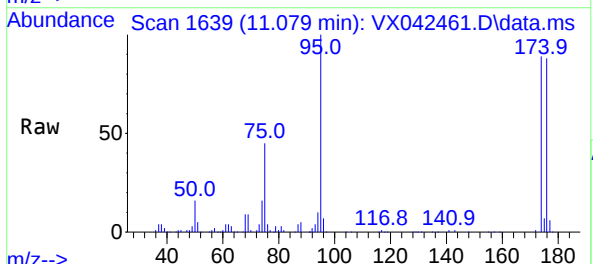
Tgt Ion: 95 Resp: 65555

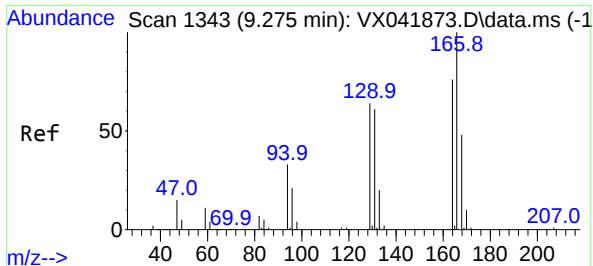
Ion Ratio Lower Upper

95 100

174 95.6 78.9 118.3

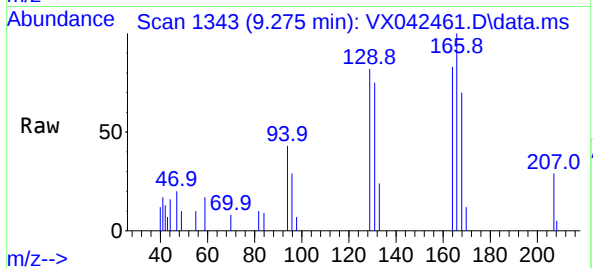
176 93.3 77.1 115.7



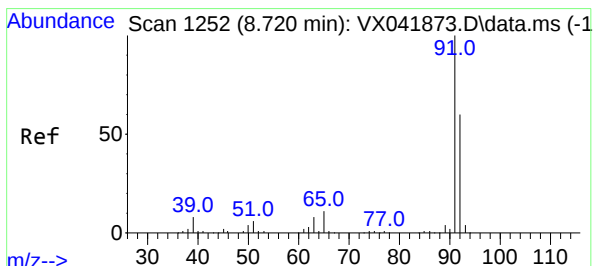
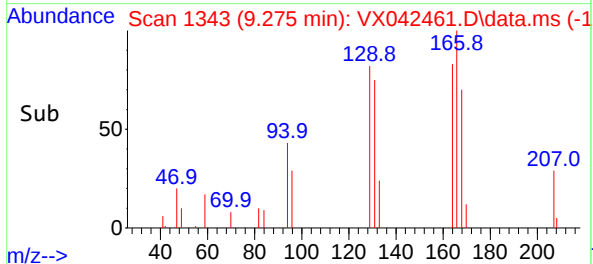
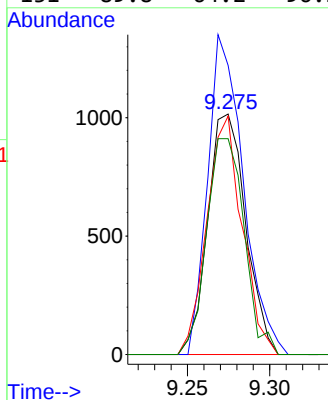


#61
Tetrachloroethene
Concen: 0.911 ug/l
RT: 9.275 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

Instrument :
MSVOA_X
ClientSampleId :

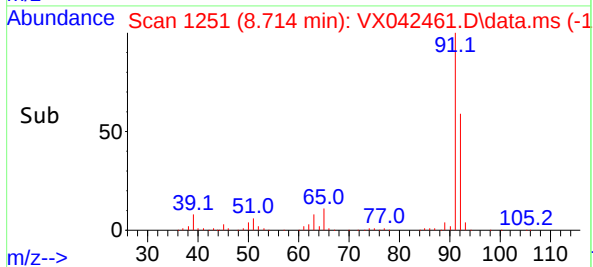
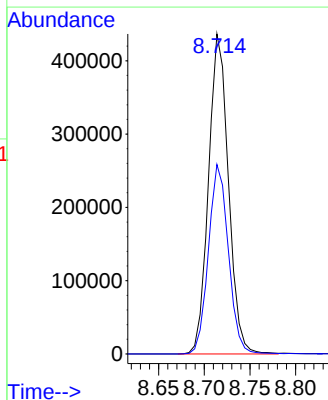
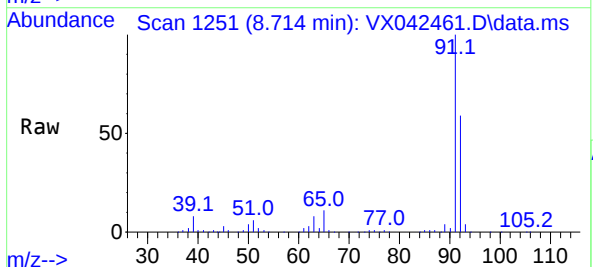


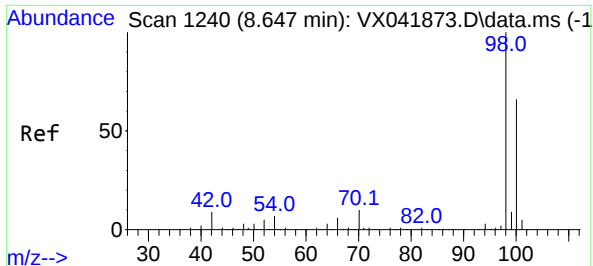
Tgt Ion:164 Resp: 1634
Ion Ratio Lower Upper
164 100
166 120.2 105.0 157.6
129 99.1 67.1 100.7
131 89.8 64.2 96.2



#62
Toluene
Concen: 89.272 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.006 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

Tgt Ion: 91 Resp: 660146
Ion Ratio Lower Upper
91 100
92 59.4 47.4 71.2

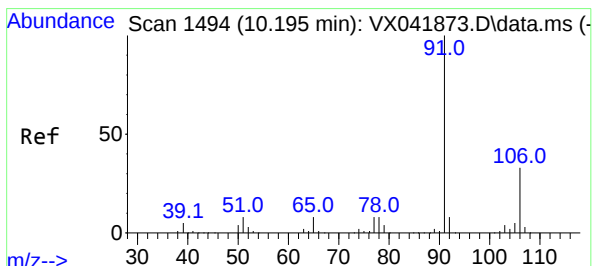
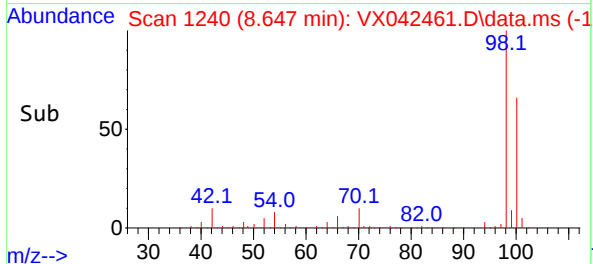
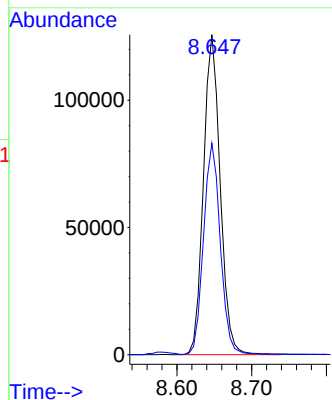
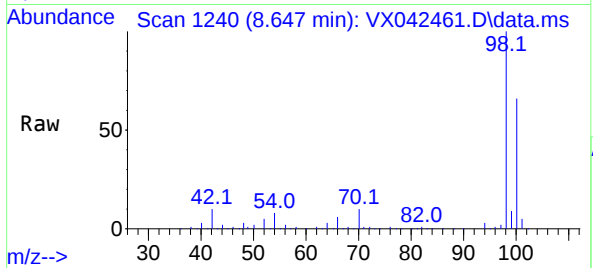




#63
Toluene-d8
Concen: 30.479 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

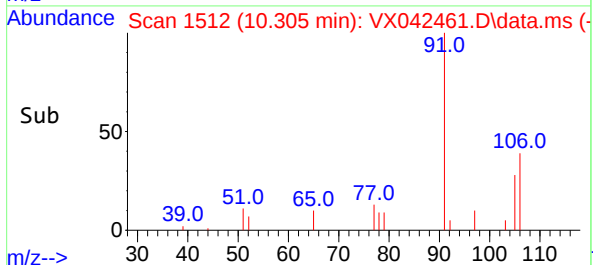
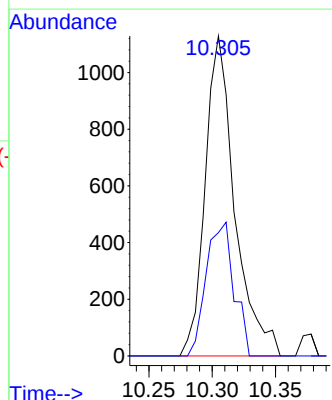
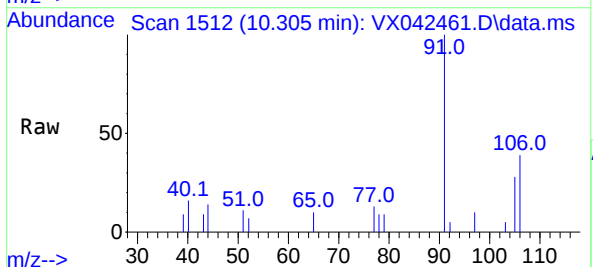
Instrument :
MSVOA_X
ClientSampleId :

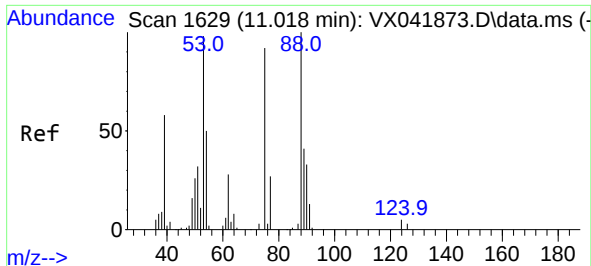
Tgt Ion: 98 Resp: 195838
Ion Ratio Lower Upper
98 100
100 66.1 52.7 79.1



#66
Ethyl Benzene
Concen: 0.228 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.110 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

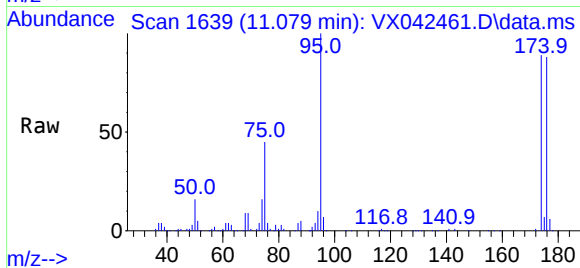
Tgt Ion: 91 Resp: 1836
Ion Ratio Lower Upper
91 100
106 38.5 26.4 39.6



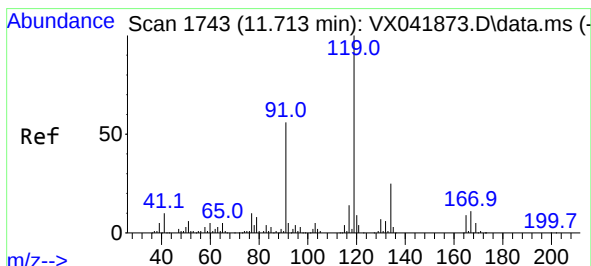
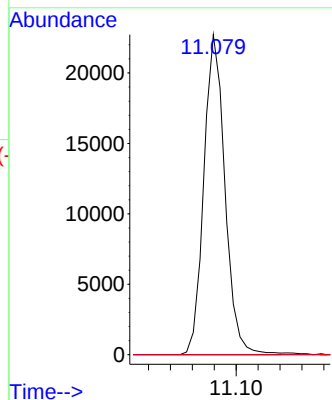
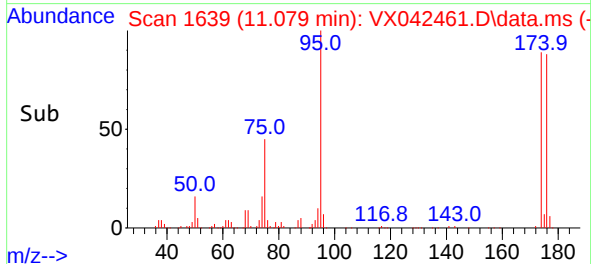


#77
t-1,4-Dichloro-2-butene
Concen: 37.048 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

Instrument :
MSVOA_X
ClientSampleId :

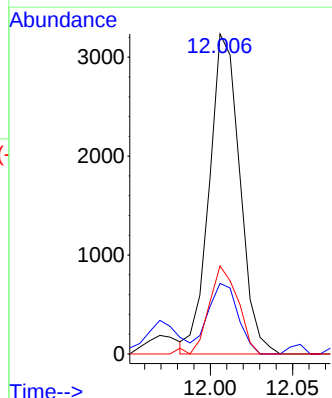
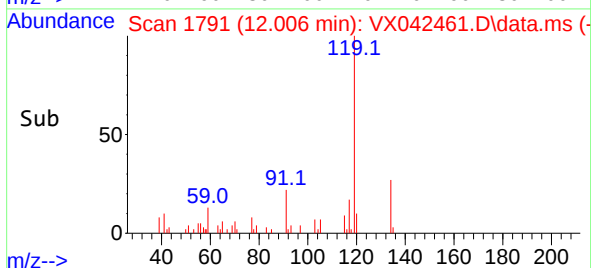
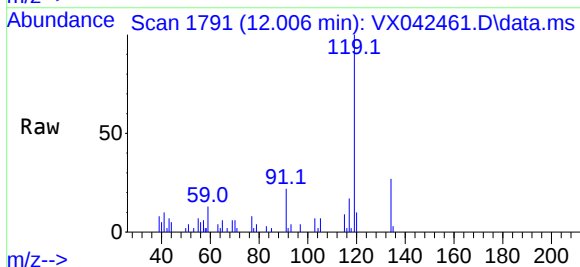


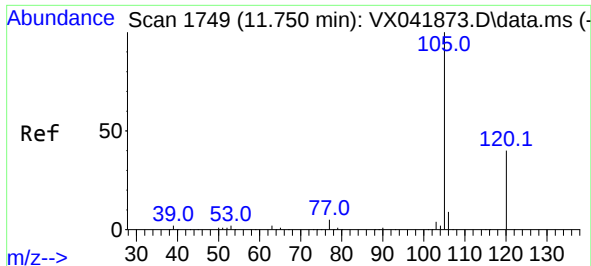
Tgt Ion: 75 Resp: 30352
Ion Ratio Lower Upper
75 100
53 0.0 53.4 160.2#
89 0.0 22.5 67.5#



#79
tert-butylbenzene
Concen: 0.572 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.293 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

Tgt Ion: 119 Resp: 4168
Ion Ratio Lower Upper
119 100
91 21.8 0.0 106.0
134 25.6 0.0 49.4

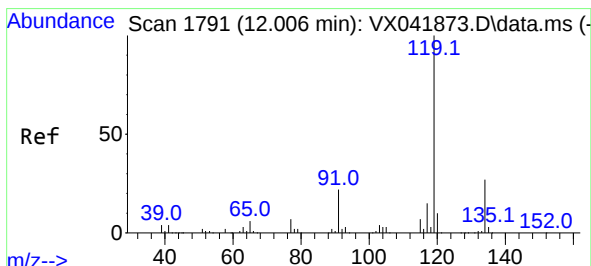
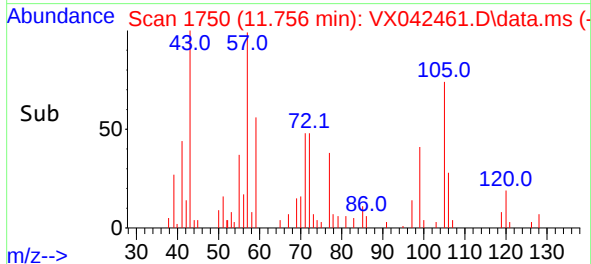
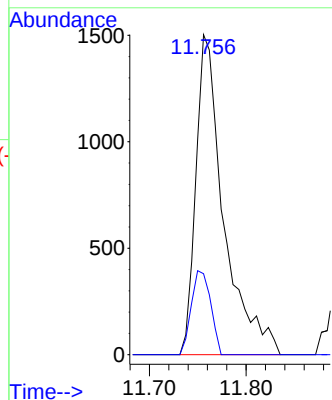
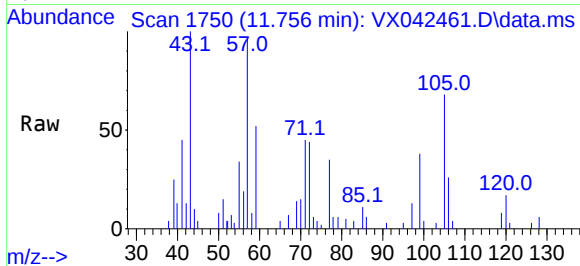




#80
1,2,4-Trimethylbenzene
Concen: 0.438 ug/l
RT: 11.756 min Scan# 11750
Delta R.T. 0.006 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

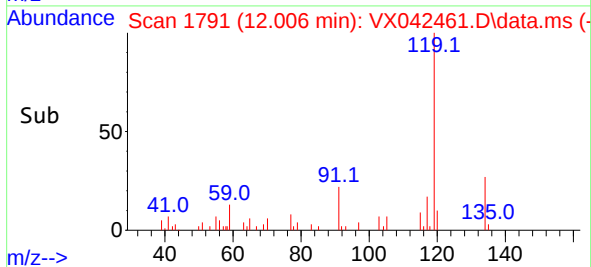
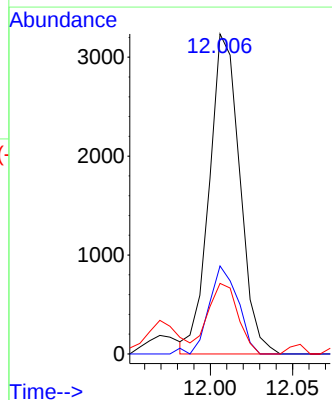
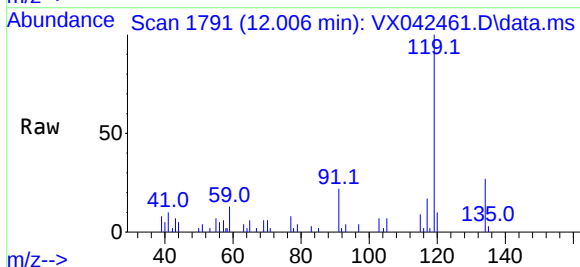
Instrument :
MSVOA_X
ClientSampleId :

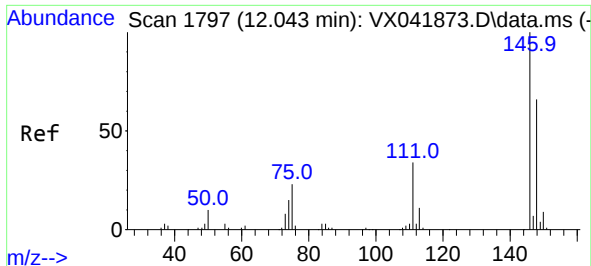
Tgt Ion:105 Resp: 3010
Ion Ratio Lower Upper
105 100
120 18.2 0.0 96.2



#82
p-Isopropyltoluene
Concen: 0.558 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

Tgt Ion:119 Resp: 4168
Ion Ratio Lower Upper
119 100
134 25.6 0.0 54.0
91 21.8 0.0 42.2

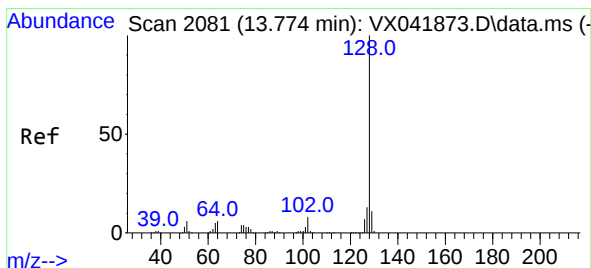
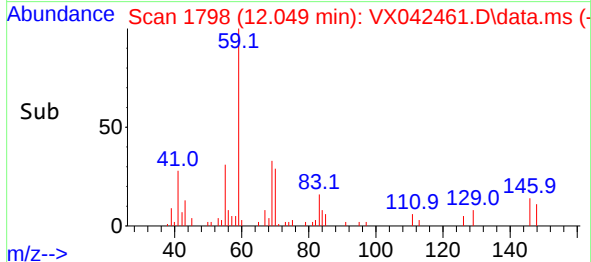
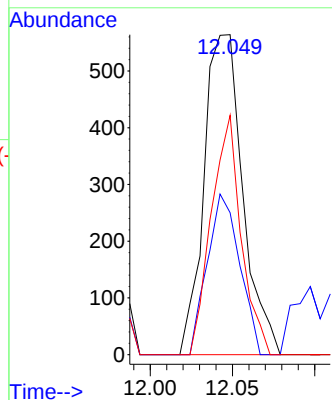
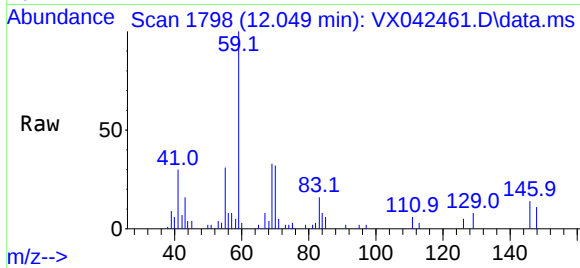




#84
1,4-Dichlorobenzene
Concen: 0.222 ug/l
RT: 12.049 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion:	146	Resp:	925
Ion	Ratio	Lower	Upper
146	100		
111	41.9	17.4	52.3
148	57.6	32.3	96.9



#91
Naphthalene
Concen: 0.307 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX042461.D
Acq: 23 Jul 2024 10:42

Tgt Ion:	128	Resp:	2629
Ion	Ratio	Lower	Upper
128	100		
127	14.6	10.4	15.6
129	11.0	8.7	13.1

