

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071924\
 Data File : VX042400.D
 Acq On : 19 Jul 2024 13:36
 Operator : JC/MD
 Sample : P3289-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 19 16:09:20 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)

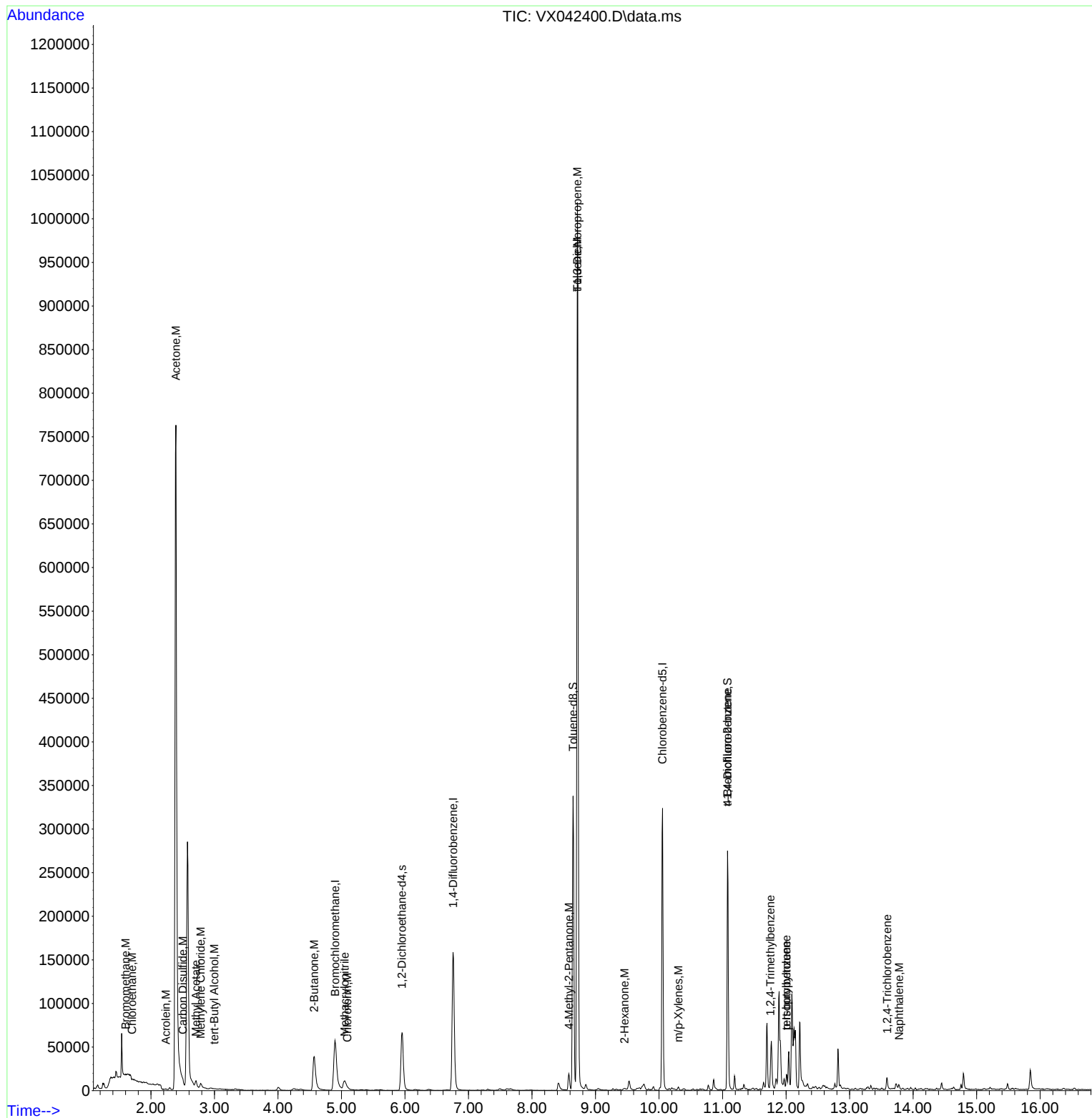
Internal Standards						
1) Bromochloromethane	4.898	128	30853	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	177448	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	161676	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	63562	28.761	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	95.867%
60) 4-Bromofluorobenzene	11.079	95	72519	28.829	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.100%
63) Toluene-d8	8.647	98	208909	29.745	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.167%
Target Compounds						
					Qvalue	
5) Bromomethane	1.599	94	238	0.247	ug/l	95
6) Chloroethane	1.703	64	3665	4.427	ug/l #	57
12) Methyl Acetate	2.709	43	9491	3.210	ug/l	95
13) Acrolein	2.233	56	369	0.994	ug/l #	74
15) Acetone	2.392	58	307597	931.366	ug/l	97
16) Carbon Disulfide	2.502	76	5564	1.565	ug/l	96
18) Methylene Chloride	2.782	84	3069	1.494	ug/l	93
23) tert-Butyl Alcohol	2.995	59	101	0.239	ug/l #	100
25) Chloroform	5.093	83	977	0.276	ug/l	94
30) 2-Butanone	4.568	43	77479	50.152	ug/l	98
35) Methacrylonitrile	5.050	41	2834	1.859	ug/l #	44
48) t-1,3-Dichloropropene	8.714	75	4205	1.668	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	12422	4.360	ug/l	98
59) 2-Hexanone	9.458	43	1293	0.579	ug/l #	61
62) Toluene	8.714	91	669182	82.789	ug/l	100
67) m/p-Xylenes	10.305	106	1135	0.322	ug/l	92
77) t-1,4-Dichloro-2-butene	11.079	75	33225	37.102	ug/l #	7
79) tert-butylbenzene	12.006	119	6017	0.755	ug/l	69
80) 1,2,4-Trimethylbenzene	11.756	105	5622	0.748	ug/l	48
82) p-Isopropyltoluene	12.006	119	6017	0.737	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	631	0.201	ug/l	92
91) Naphthalene	13.780	128	3659	0.391	ug/l	98

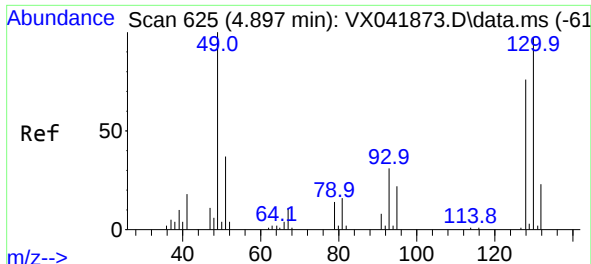
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

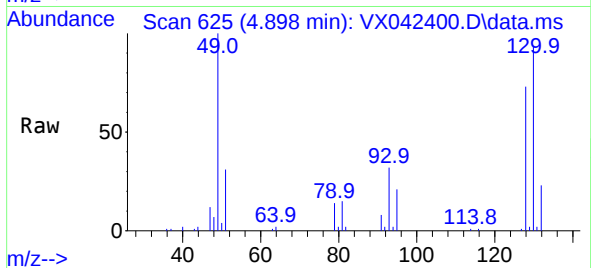
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 19 11:30:14 2024
Response via : Initial Calibration



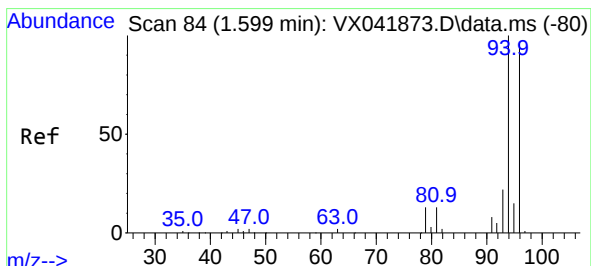
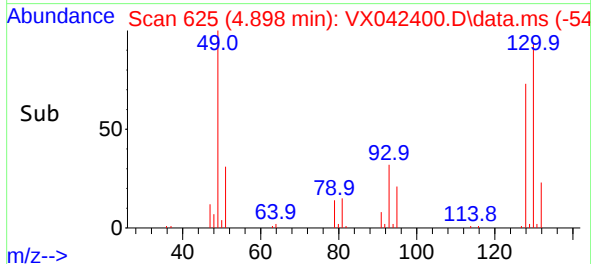
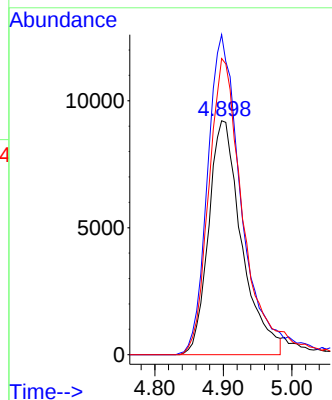


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.898 min Scan# 61
Delta R.T. 0.001 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

Instrument :
MSVOA_X
ClientSampleId :

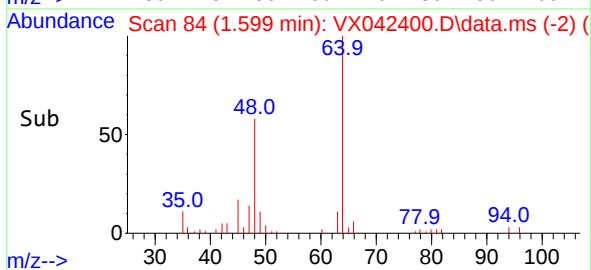
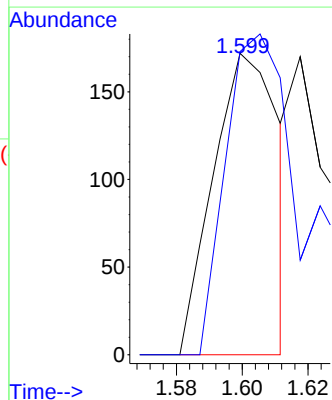
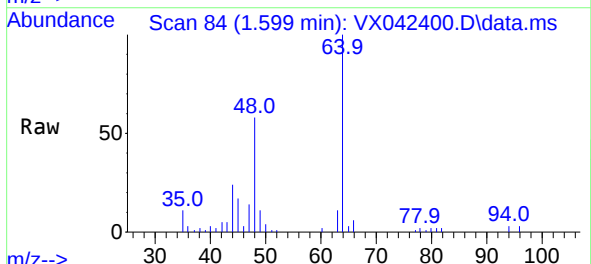


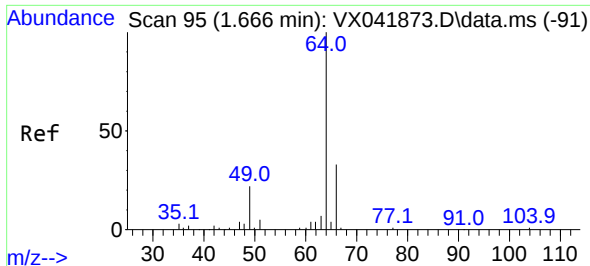
Tgt Ion:128 Resp: 30853
Ion Ratio Lower Upper
128 100
49 140.3 0.0 338.5
130 127.9 0.0 324.5



#5
Bromomethane
Concen: 0.247 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.000 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

Tgt Ion: 94 Resp: 238
Ion Ratio Lower Upper
94 100
96 100.6 76.6 115.0

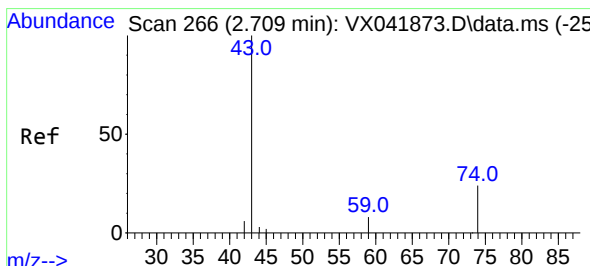
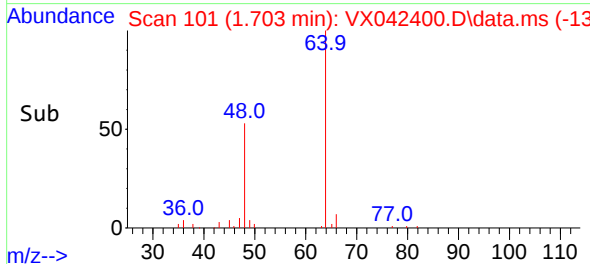
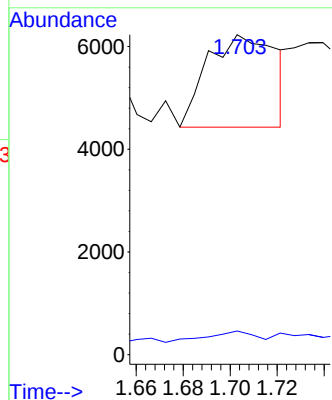
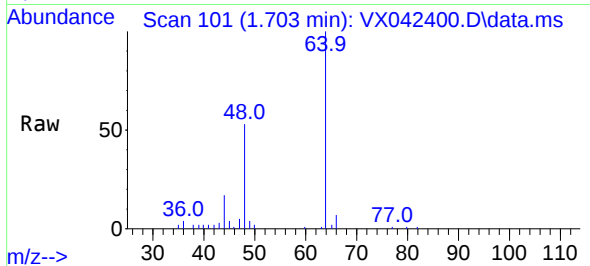




#6
Chloroethane
Concen: 4.427 ug/l
RT: 1.703 min Scan# 101
Delta R.T. 0.037 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

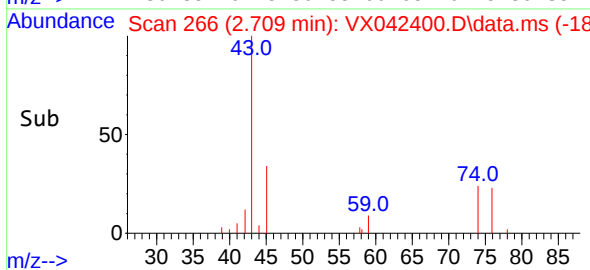
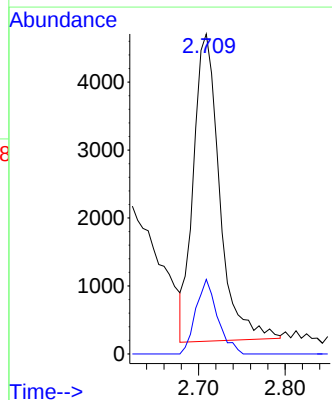
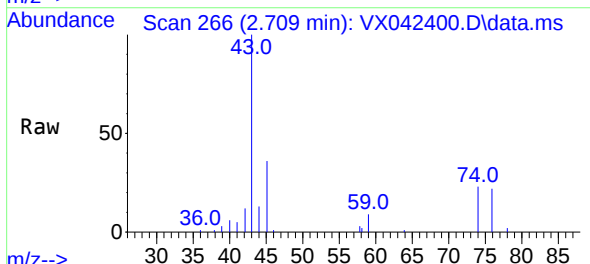
Instrument :
MSVOA_X
ClientSampleId :

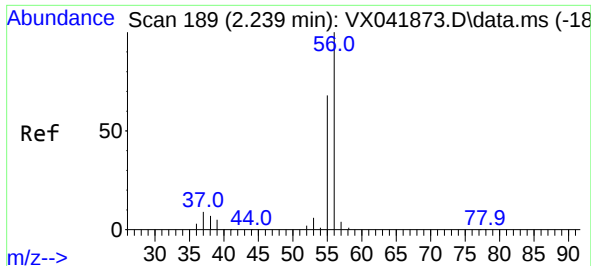
Tgt Ion: 64 Resp: 3665
Ion Ratio Lower Upper
64 100
66 8.8 26.4 39.6#



#12
Methyl Acetate
Concen: 3.210 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

Tgt Ion: 43 Resp: 9491
Ion Ratio Lower Upper
43 100
74 26.6 19.4 29.2

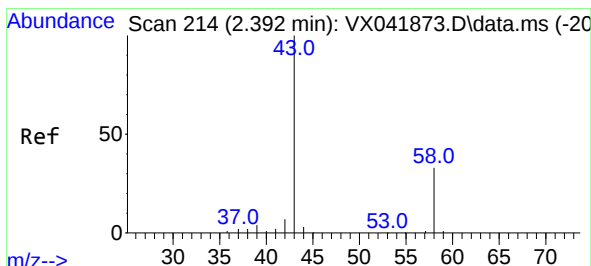
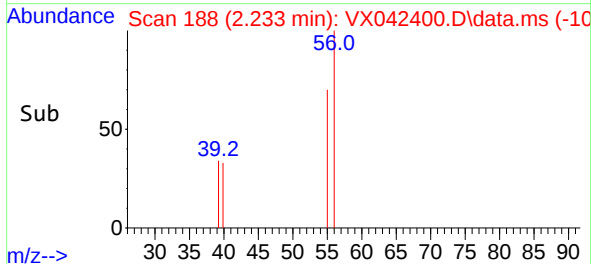
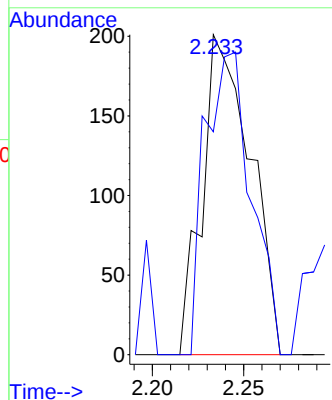
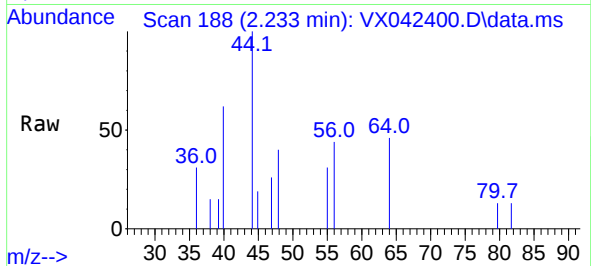




#13
Acrolein
Concen: 0.994 ug/l
RT: 2.233 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

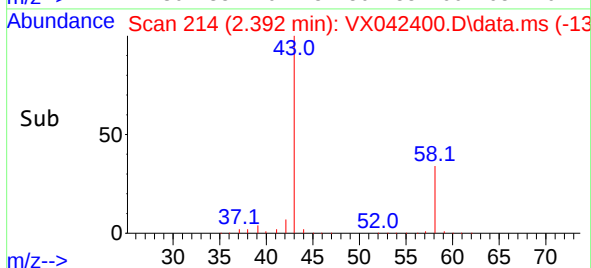
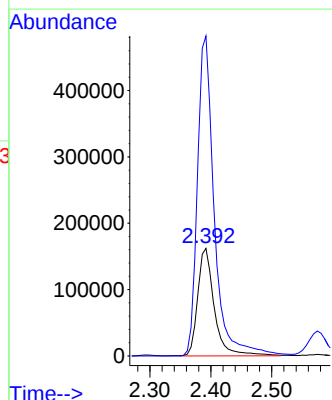
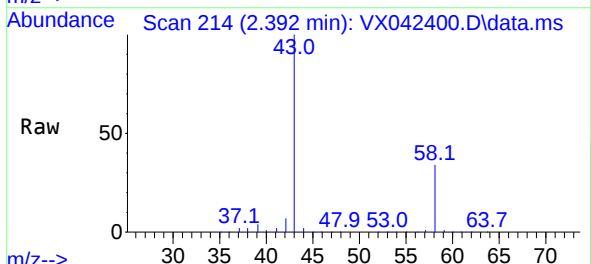
Instrument :
MSVOA_X
ClientSampleId :

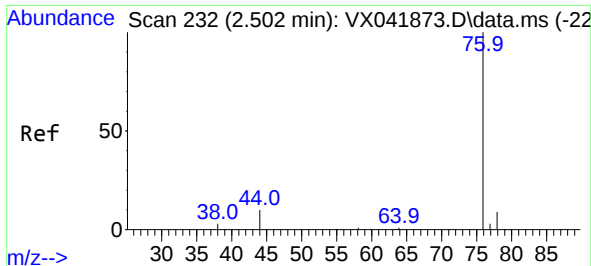
Tgt Ion: 56 Resp: 369
Ion Ratio Lower Upper
56 100
55 90.8 55.4 83.0#



#15
Acetone
Concen: 931.366 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

Tgt Ion: 58 Resp: 307597
Ion Ratio Lower Upper
58 100
43 298.3 243.4 365.2

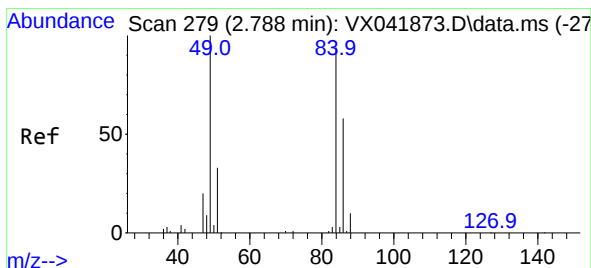
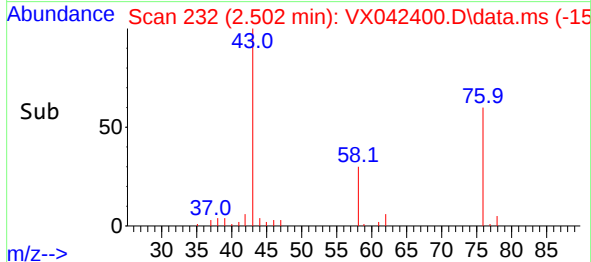
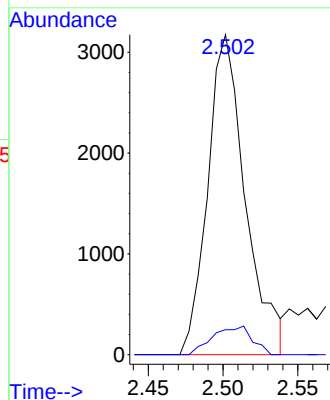
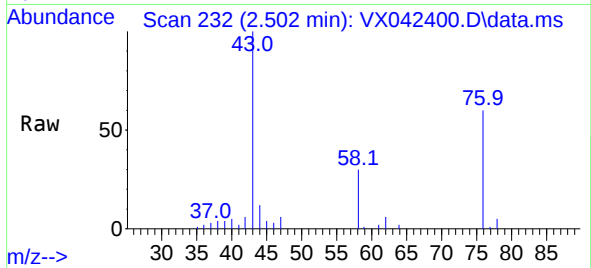




#16
Carbon Disulfide
Concen: 1.565 ug/l
RT: 2.502 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

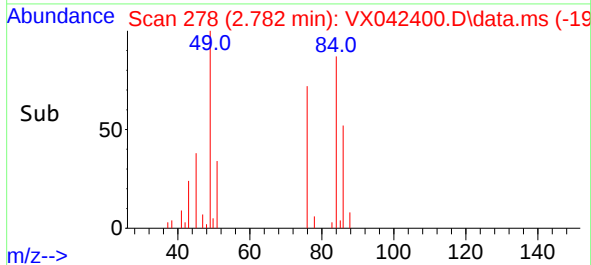
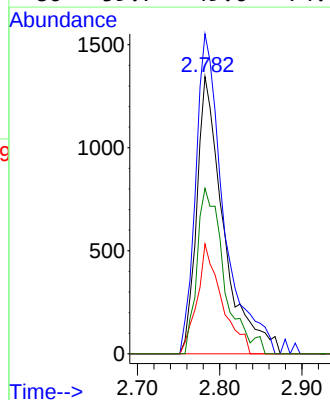
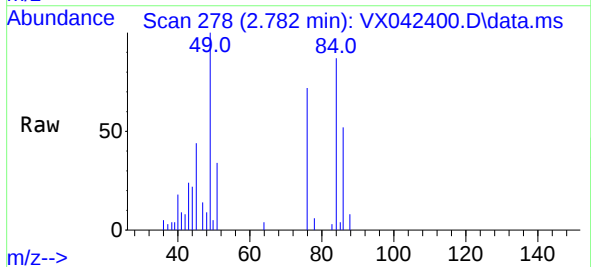
Instrument :
MSVOA_X
ClientSampleId :

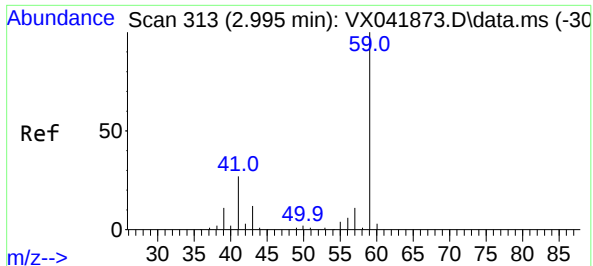
Tgt Ion: 76 Resp: 5564
Ion Ratio Lower Upper
76 100
78 7.8 7.3 10.9



#18
Methylene Chloride
Concen: 1.494 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

Tgt Ion: 84 Resp: 3069
Ion Ratio Lower Upper
84 100
49 115.4 85.3 127.9
51 39.6 28.5 42.7
86 59.7 49.6 74.4





#23

tert-Butyl Alcohol

Concen: 0.239 ug/l

RT: 2.995 min Scan# 313

Delta R.T. 0.000 min

Lab File: VX042400.D

Acq: 19 Jul 2024 13:36

Instrument :

MSVOA_X

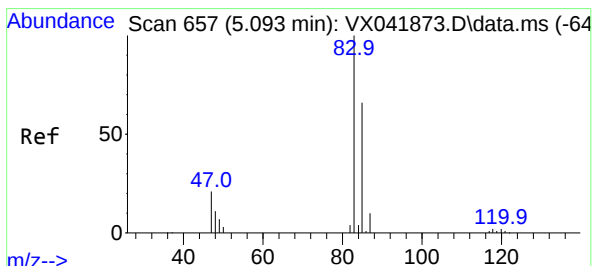
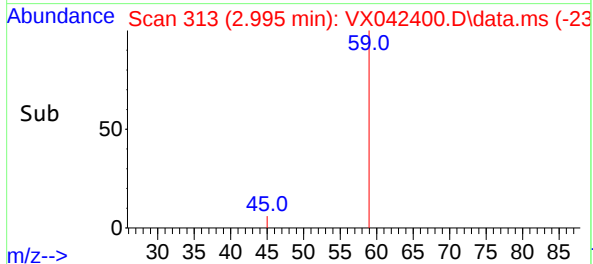
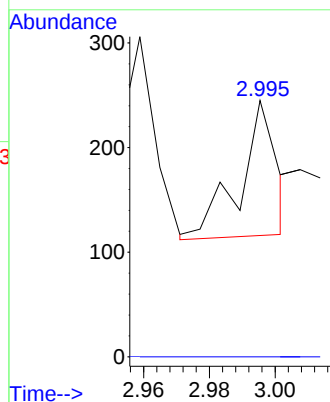
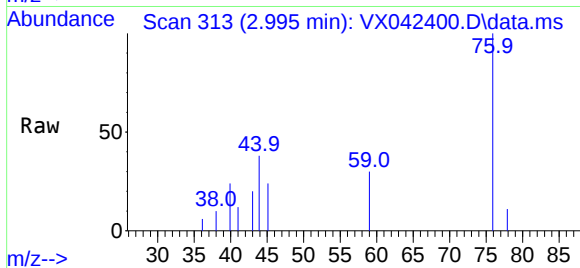
ClientSampleId :

Tgt Ion: 59 Resp: 101

Ion Ratio Lower Upper

59 100

52 45.5 0.0 0.0#



#25

Chloroform

Concen: 0.276 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.000 min

Lab File: VX042400.D

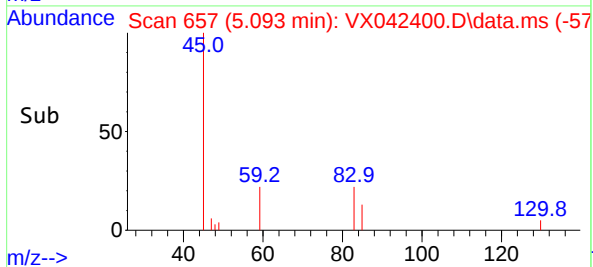
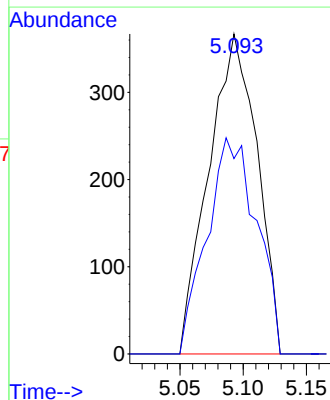
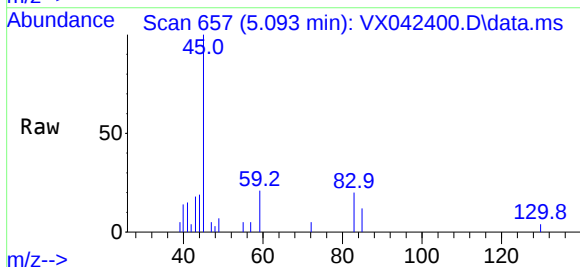
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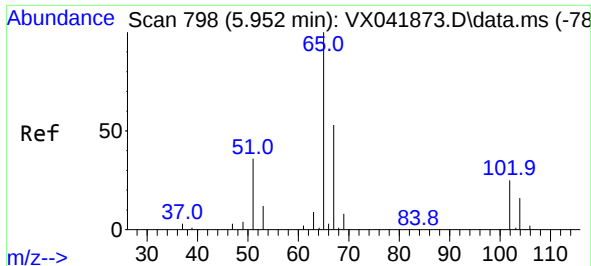
Tgt Ion: 83 Resp: 977

Ion Ratio Lower Upper

83 100

85 61.0 52.7 79.1

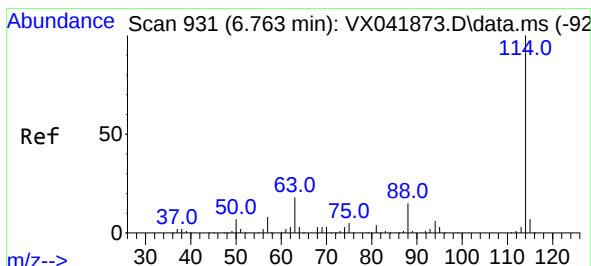
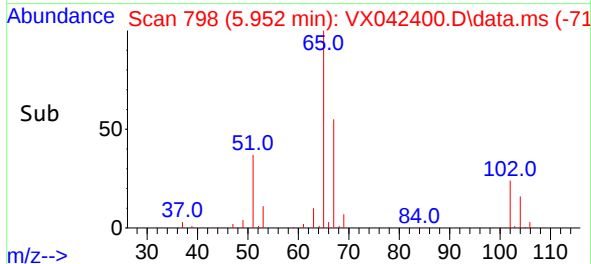
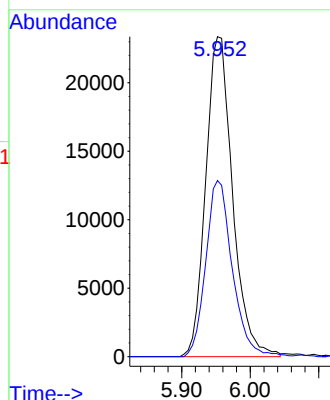
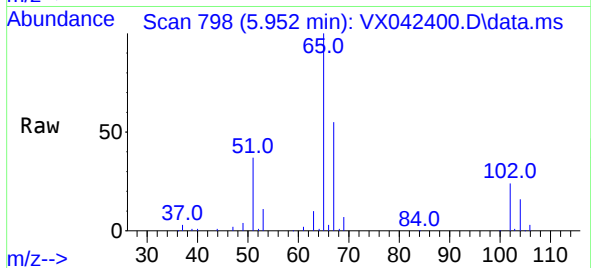




#27
1,2-Dichloroethane-d4
Concen: 28.761 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

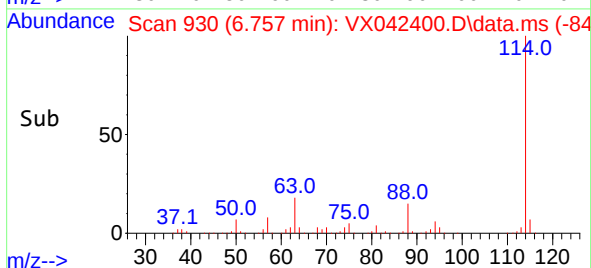
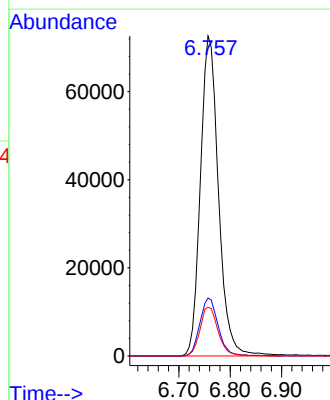
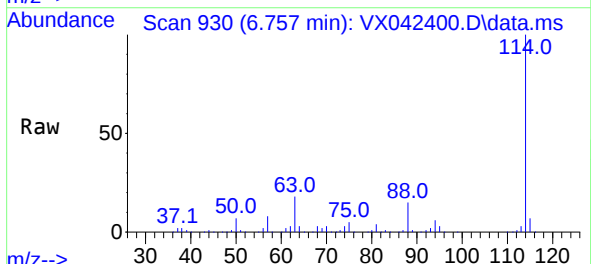
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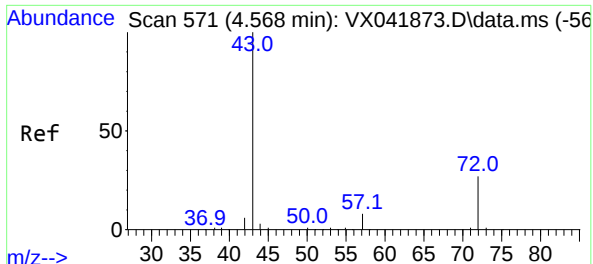
Tgt Ion: 65 Resp: 63562
Ion Ratio Lower Upper
65 100
67 54.5 43.4 65.0



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.006 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

Tgt Ion: 114 Resp: 177448
Ion Ratio Lower Upper
114 100
63 18.2 14.6 21.8
88 15.1 11.8 17.8

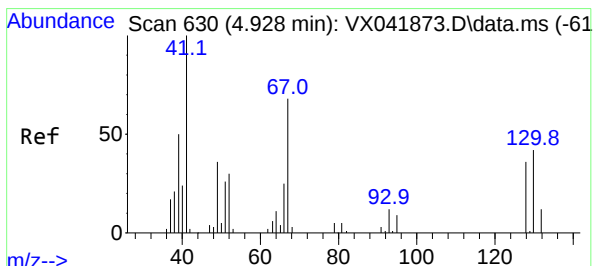
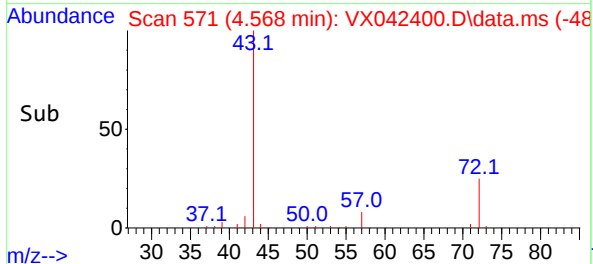
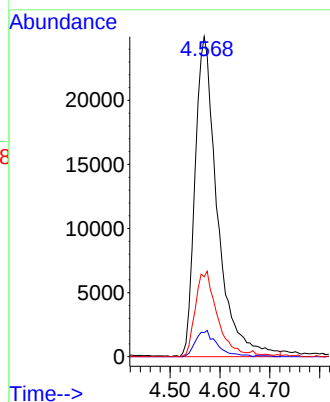
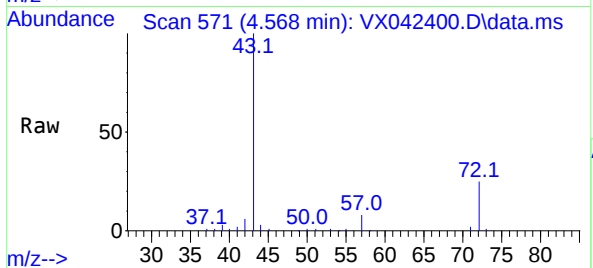




#30
2-Butanone
Concen: 50.152 ug/l
RT: 4.568 min Scan# 51
Delta R.T. 0.000 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

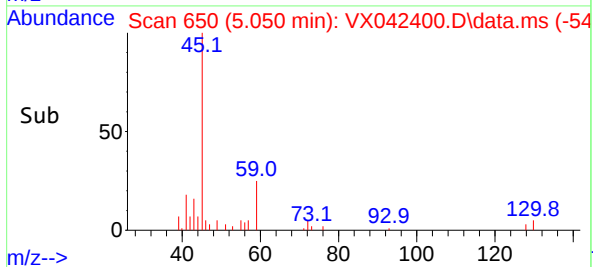
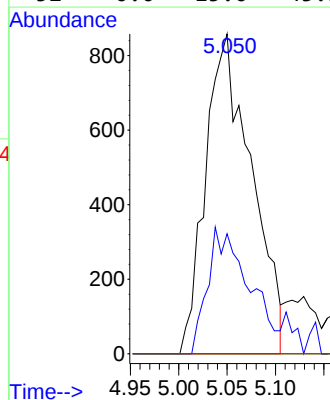
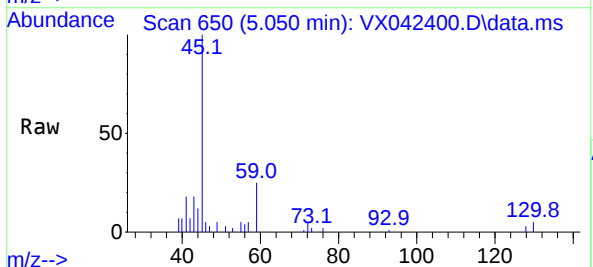
Instrument :
MSVOA_X
ClientSampleId :

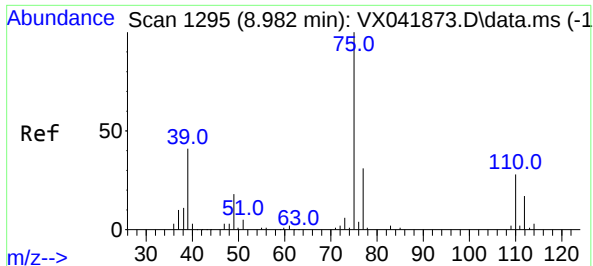
Tgt Ion: 43 Resp: 77479
Ion Ratio Lower Upper
43 100
57 7.8 6.5 9.7
72 26.1 22.0 33.0



#35
Methacrylonitrile
Concen: 1.859 ug/l
RT: 5.050 min Scan# 650
Delta R.T. 0.122 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

Tgt Ion: 41 Resp: 2834
Ion Ratio Lower Upper
41 100
39 37.5 25.2 75.6
67 0.0 34.2 102.5#
52 0.0 15.0 45.1#





#48

t-1,3-Dichloropropene

Concen: 1.668 ug/l

RT: 8.714 min Scan# 11

Delta R.T. -0.268 min

Lab File: VX042400.D

Acq: 19 Jul 2024 13:36

Instrument :

MSVOA_X

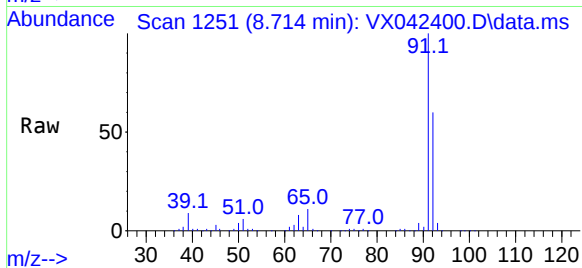
ClientSampleId :

Tgt Ion: 75 Resp: 4205

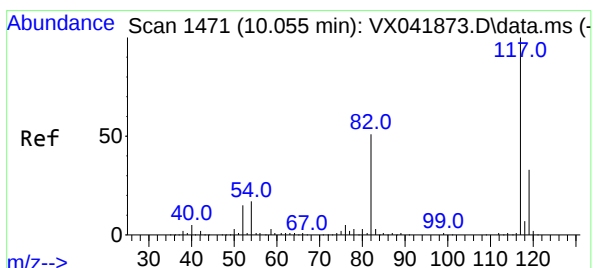
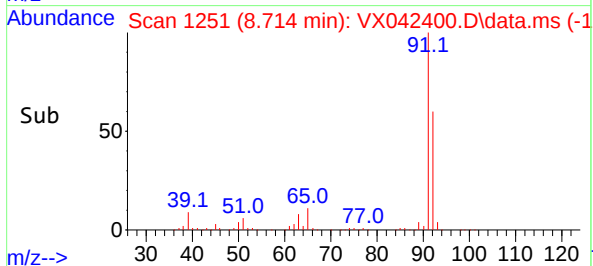
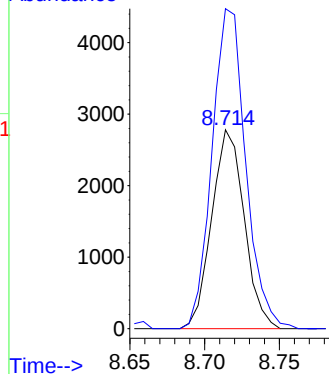
Ion Ratio Lower Upper

75 100

77 160.9 25.1 37.7#



Abundance



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX042400.D

Acq: 19 Jul 2024 13:36

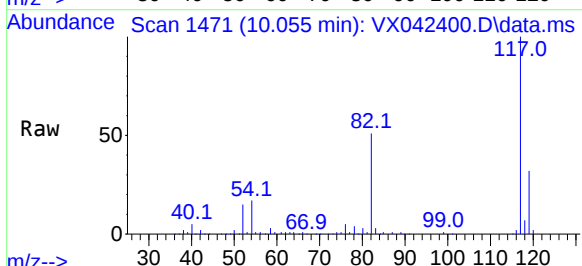
Tgt Ion:117 Resp: 161676

Ion Ratio Lower Upper

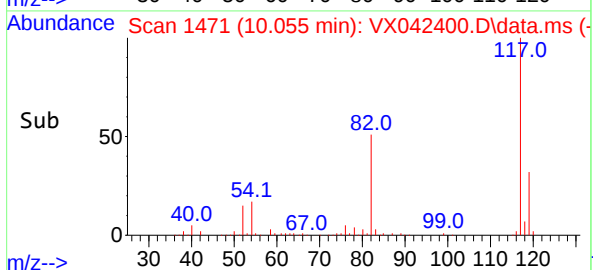
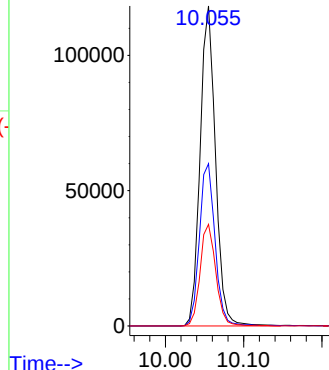
117 100

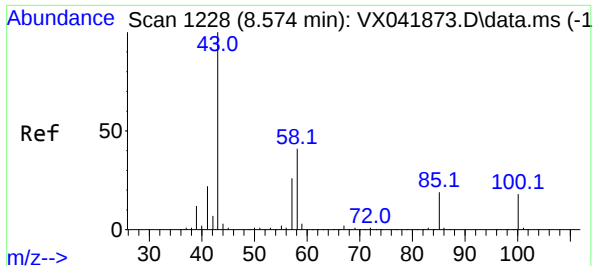
82 51.6 41.1 61.7

119 32.3 26.1 39.1



Abundance





#58

4-Methyl-2-Pentanone

Concen: 4.360 ug/l

RT: 8.580 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX042400.D

Acq: 19 Jul 2024 13:36

Instrument :

MSVOA_X

ClientSampleId :

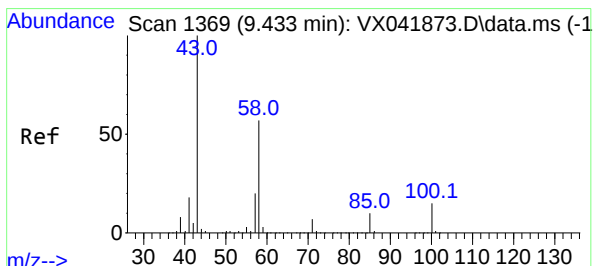
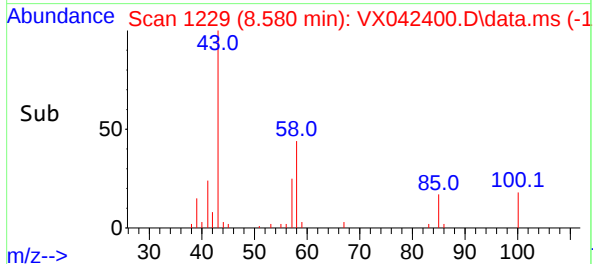
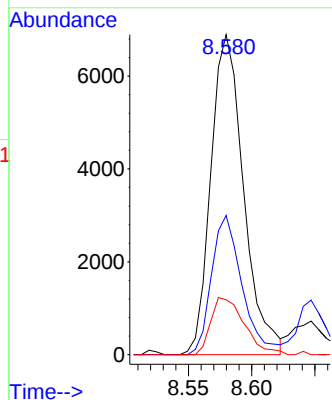
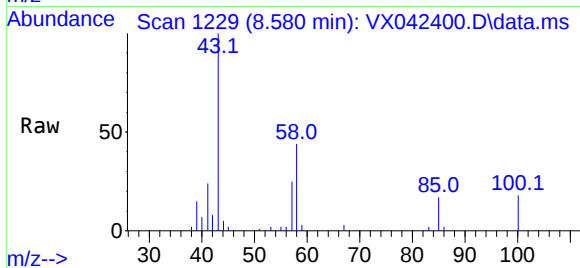
Tgt Ion: 43 Resp: 12422

Ion Ratio Lower Upper

43 100

58 40.7 33.2 49.8

85 18.2 15.5 23.3



#59

2-Hexanone

Concen: 0.579 ug/l

RT: 9.458 min Scan# 1373

Delta R.T. 0.024 min

Lab File: VX042400.D

Acq: 19 Jul 2024 13:36

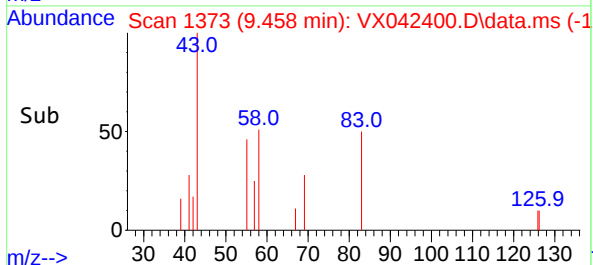
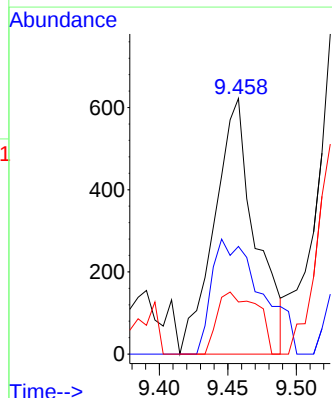
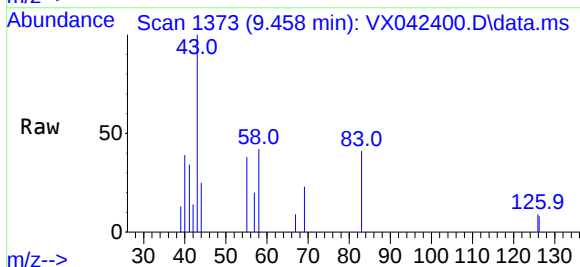
Tgt Ion: 43 Resp: 1293

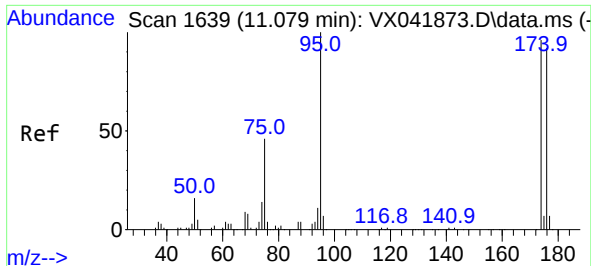
Ion Ratio Lower Upper

43 100

58 22.7 46.0 69.0#

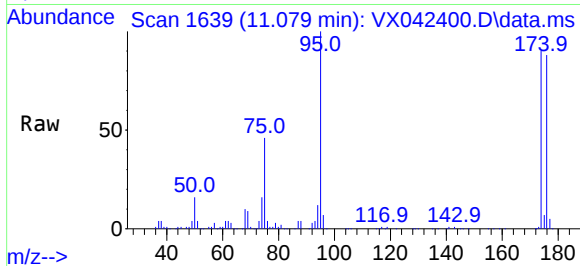
57 13.5 15.8 23.6#



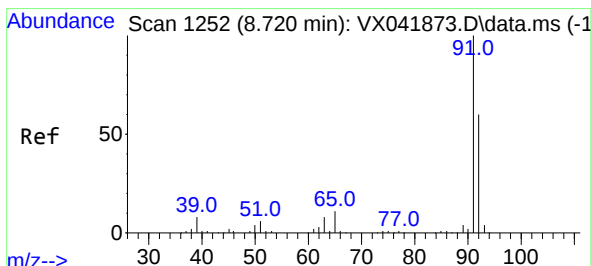
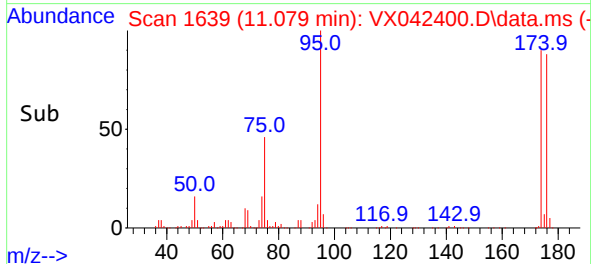
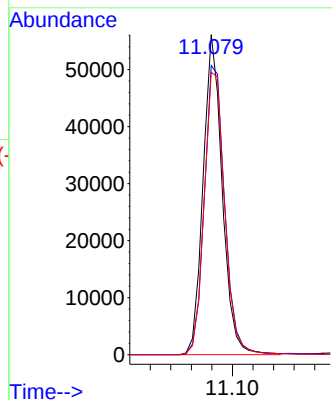


#60
4-Bromofluorobenzene
Concen: 28.829 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

Instrument :
MSVOA_X
ClientSampleId :

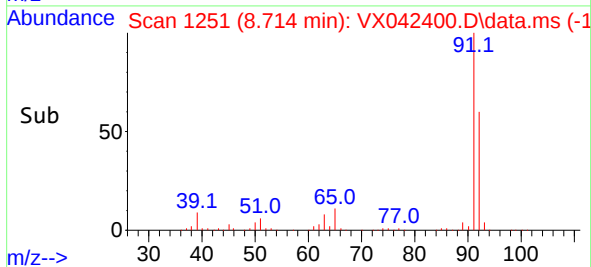
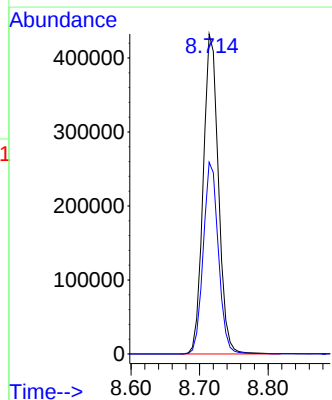
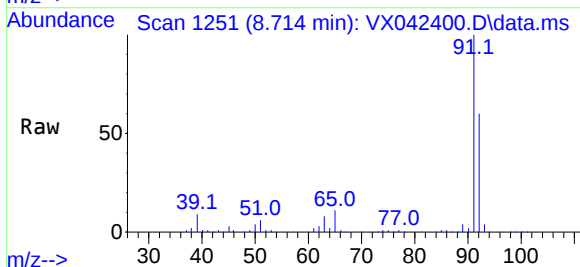


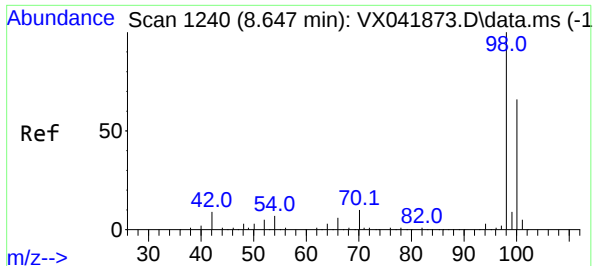
Tgt Ion: 95 Resp: 72519
Ion Ratio Lower Upper
95 100
174 96.0 78.9 118.3
176 94.9 77.1 115.7



#62
Toluene
Concen: 82.789 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.006 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

Tgt Ion: 91 Resp: 669182
Ion Ratio Lower Upper
91 100
92 59.5 47.4 71.2

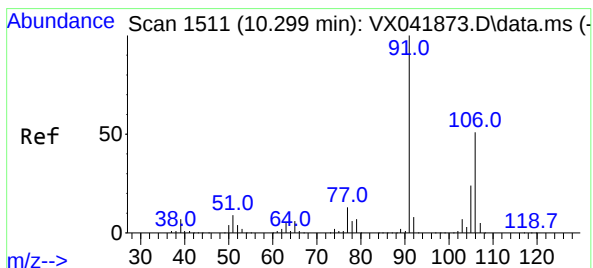
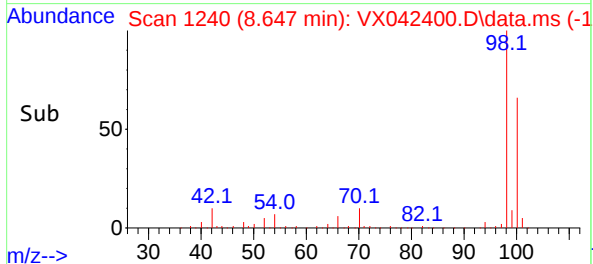
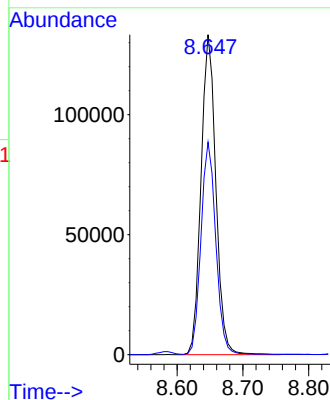
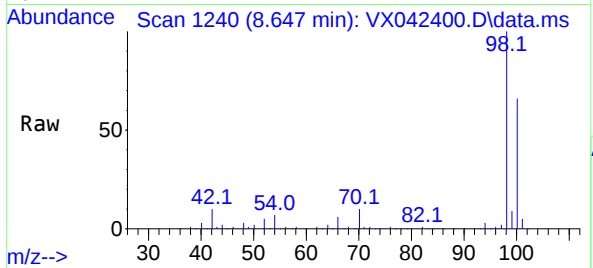




#63
Toluene-d8
Concen: 29.745 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

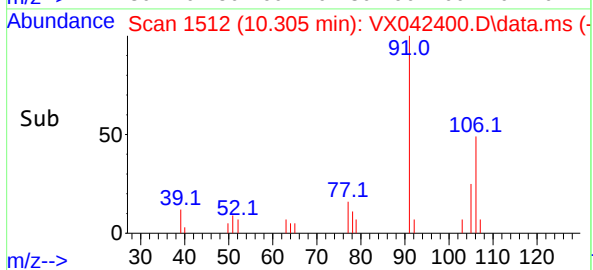
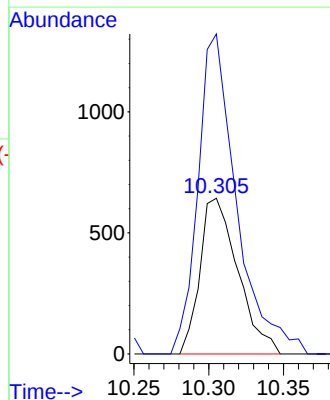
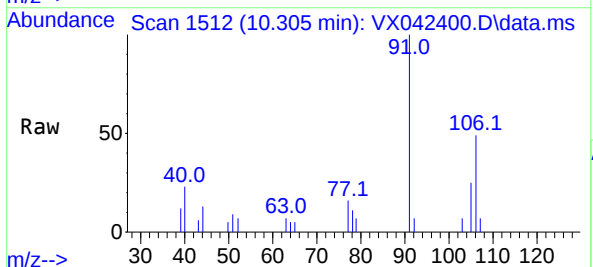
Instrument :
MSVOA_X
ClientSampleId :

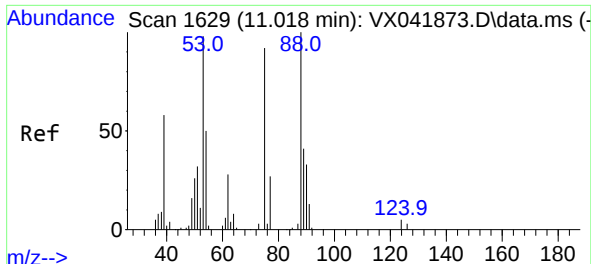
Tgt Ion: 98 Resp: 208909
Ion Ratio Lower Upper
98 100
100 66.3 52.7 79.1



#67
m/p-Xylenes
Concen: 0.322 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

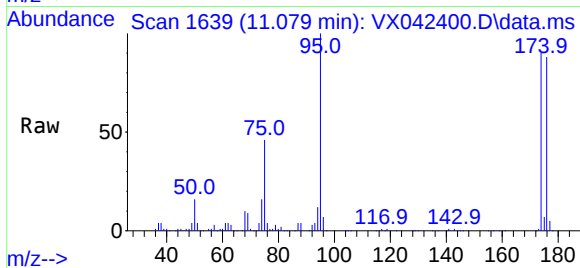
Tgt Ion:106 Resp: 1135
Ion Ratio Lower Upper
106 100
91 209.0 157.0 235.6



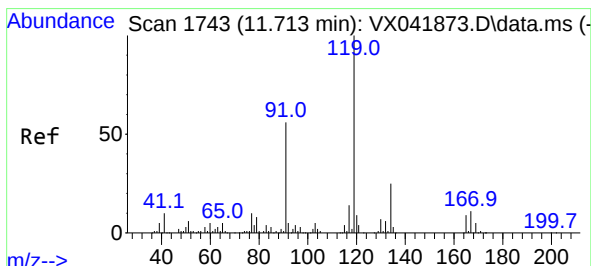
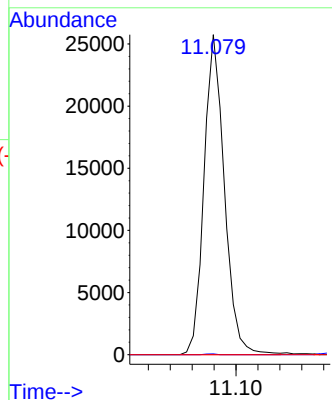
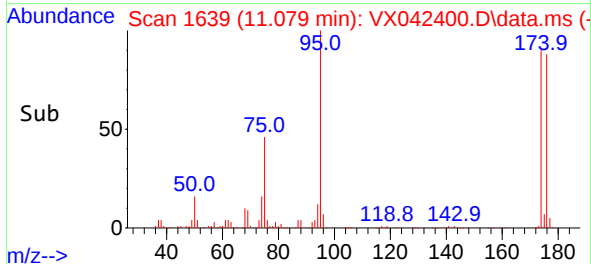


#77
t-1,4-Dichloro-2-butene
Concen: 37.102 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.061 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

Instrument :
MSVOA_X
ClientSampleId :

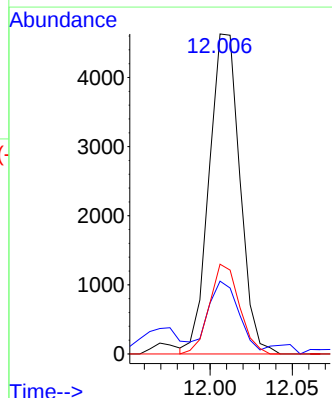
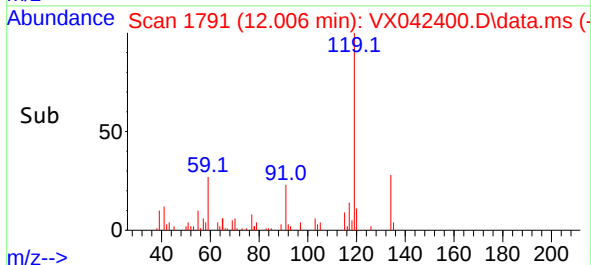
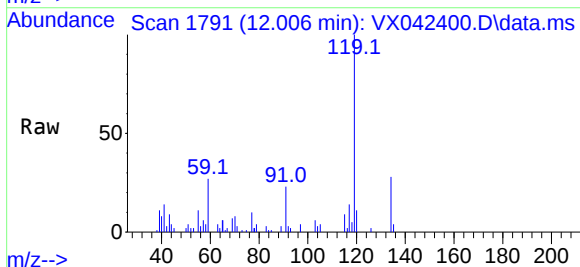


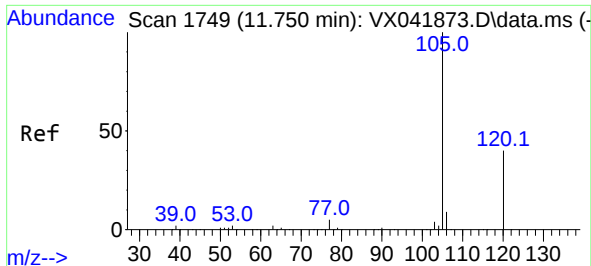
Tgt Ion: 75 Resp: 33225
Ion Ratio Lower Upper
75 100
53 0.3 53.4 160.2#
89 0.0 22.5 67.5#



#79
tert-butylbenzene
Concen: 0.755 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.293 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

Tgt Ion: 119 Resp: 6017
Ion Ratio Lower Upper
119 100
91 23.0 0.0 106.0
134 27.3 0.0 49.4

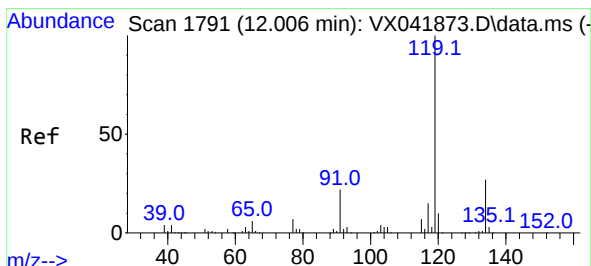
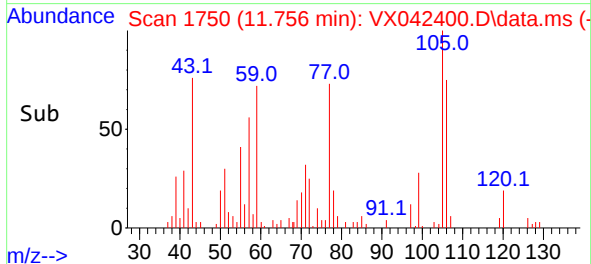
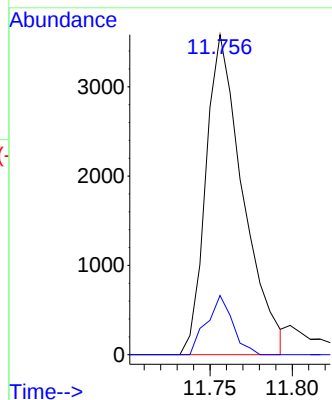
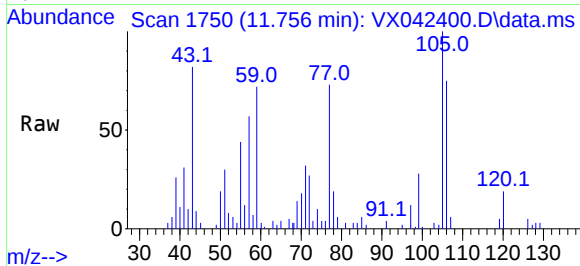




#80
1,2,4-Trimethylbenzene
Concen: 0.748 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

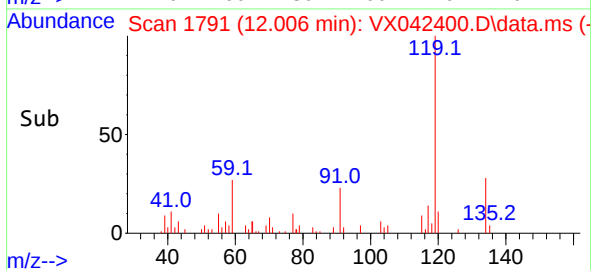
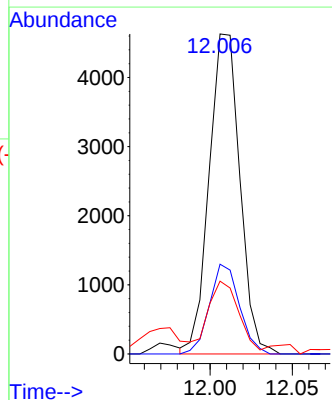
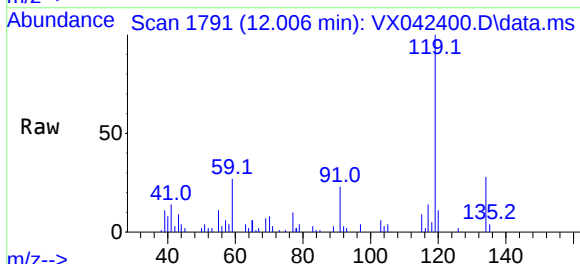
Instrument :
MSVOA_X
ClientSampleId :

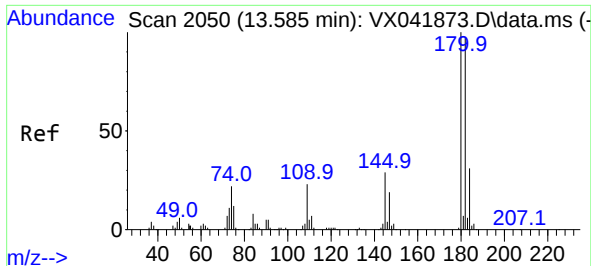
Tgt Ion:105 Resp: 5622
Ion Ratio Lower Upper
105 100
120 12.9 0.0 96.2



#82
p-Isopropyltoluene
Concen: 0.737 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

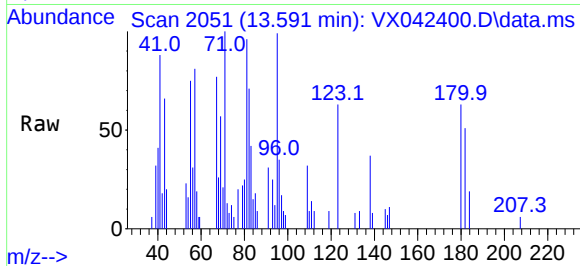
Tgt Ion:119 Resp: 6017
Ion Ratio Lower Upper
119 100
134 27.3 0.0 54.0
91 23.0 0.0 42.2



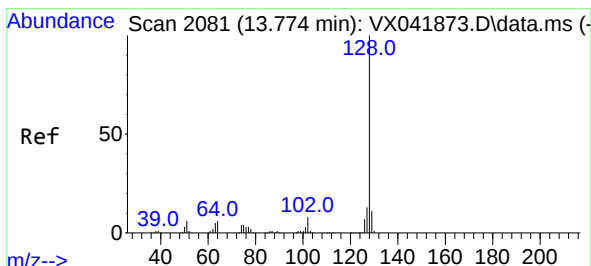
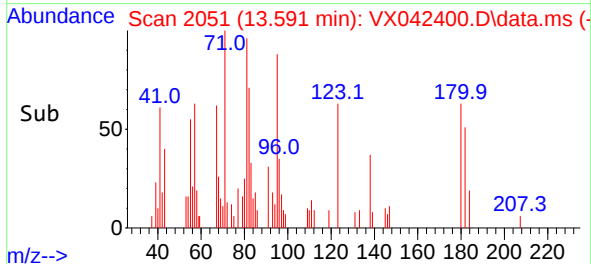
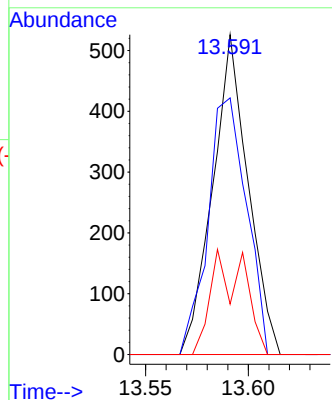


#89
1,2,4-Trichlorobenzene
Concen: 0.201 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:180 Resp: 631
Ion Ratio Lower Upper
180 100
182 87.3 76.9 115.3
145 30.6 22.8 34.2



#91
Naphthalene
Concen: 0.391 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX042400.D
Acq: 19 Jul 2024 13:36

Tgt Ion:128 Resp: 3659
Ion Ratio Lower Upper
128 100
127 13.1 10.4 15.6
129 9.1 8.7 13.1

