

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062724\
 Data File : VX042077.D
 Acq On : 27 Jun 2024 16:11
 Operator : JC/MD
 Sample : P3067-01DL 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 28 04:05:44 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

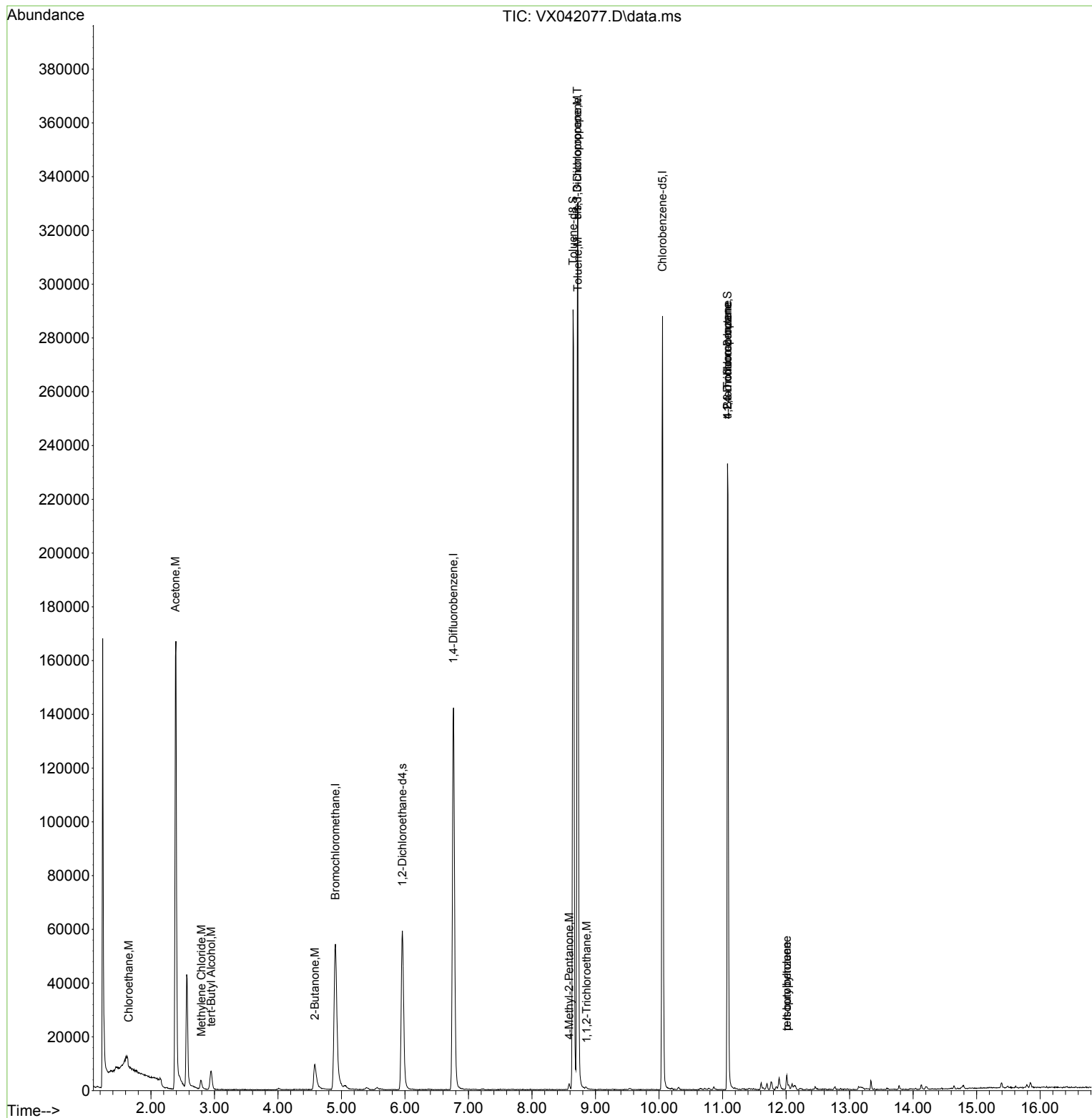
Internal Standards						
1) Bromochloromethane	4.903	128	29988	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	162063	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	147875	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	56697	27.465	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	91.533%		
60) 4-Bromofluorobenzene	11.079	95	63541	27.759	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	92.533%		
63) Toluene-d8	8.647	98	183354	28.981	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.600%		
Target Compounds						Qvalue
6) Chloroethane	1.648	64	1675	1.847	ug/l #	47
15) Acetone	2.386	58	64159	202.234	ug/l	92
18) Methylene Chloride	2.794	84	1887	0.898	ug/l #	83
23) tert-Butyl Alcohol	2.946	59	4410	10.696	ug/l #	100
30) 2-Butanone	4.580	43	17745	12.556	ug/l	96
48) t-1,3-Dichloropropene	8.714	75	1382	0.603	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	1382	0.538	ug/l #	1
50) 1,1,2-Trichloroethane	8.860	97	546	0.302	ug/l #	16
58) 4-Methyl-2-Pentanone	8.586	43	1440	0.543	ug/l	98
62) Toluene	8.720	91	226115	30.217	ug/l	99
72) 1,2,3-Trichloropropane	11.079	75	28493	12.322	ug/l	37
77) t-1,4-Dichloro-2-butene	11.079	75	28493	33.309	ug/l #	7
79) tert-butylbenzene	12.012	119	2428	0.331	ug/l	68
82) p-Isopropyltoluene	12.012	119	2428	0.324	ug/l	97

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

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ClientSampleId :

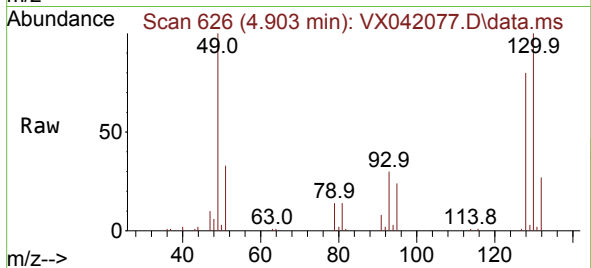
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jun 15 04:02:59 2024
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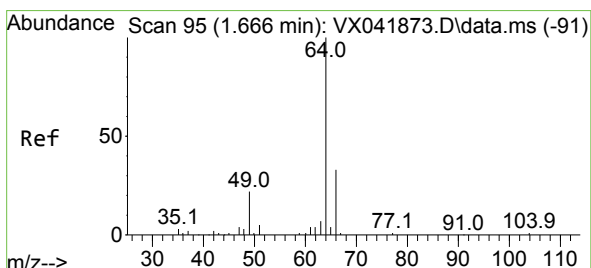
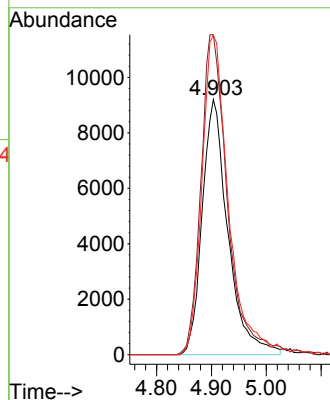
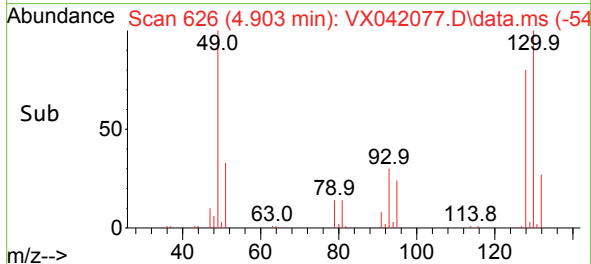


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.903 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX042077.D
Acq: 27 Jun 2024 16:11

Instrument :
MSVOA_X
ClientSampleId :

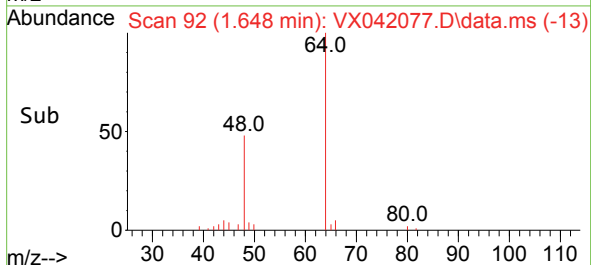
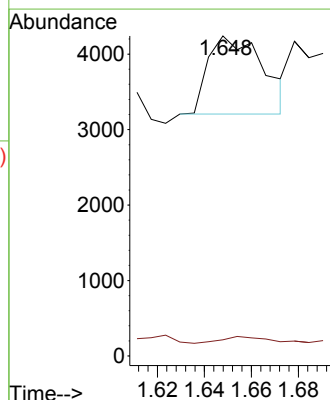
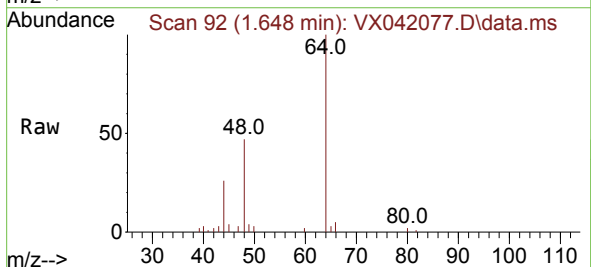


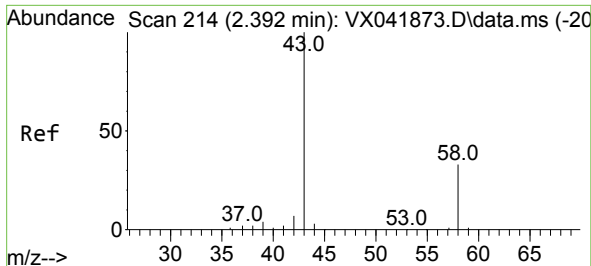
Tgt Ion:128 Resp: 29988
Ion Ratio Lower Upper
128 100
49 128.5 0.0 338.5
130 127.8 0.0 324.5



#6
Chloroethane
Concen: 1.847 ug/l
RT: 1.648 min Scan# 92
Delta R.T. -0.018 min
Lab File: VX042077.D
Acq: 27 Jun 2024 16:11

Tgt Ion: 64 Resp: 1675
Ion Ratio Lower Upper
64 100
66 2.9 26.4 39.6#





#15

Acetone

Concen: 202.234 ug/l

RT: 2.386 min Scan# 214

Delta R.T. -0.006 min

Lab File: VX042077.D

Acq: 27 Jun 2024 16:11

Instrument :

MSVOA_X

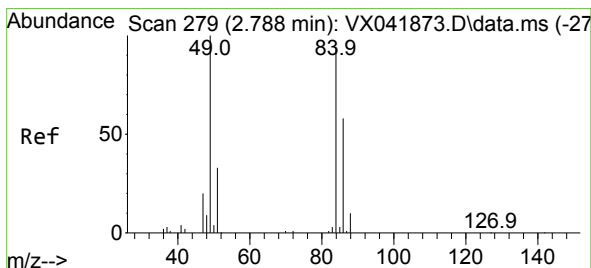
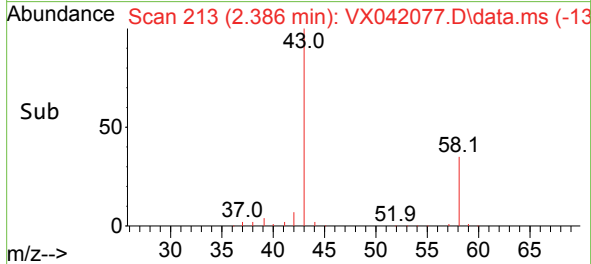
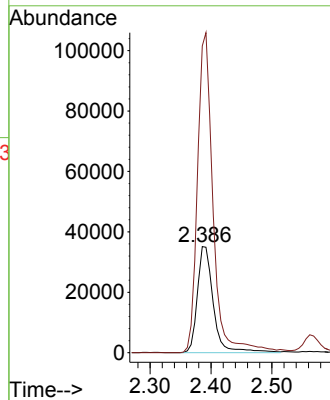
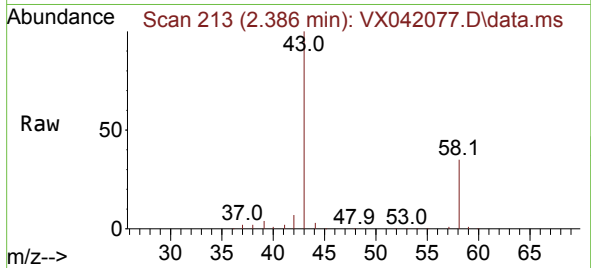
ClientSampleId :

Tgt Ion: 58 Resp: 64159

Ion Ratio Lower Upper

58 100

43 289.0 243.4 365.2



#18

Methylene Chloride

Concen: 0.898 ug/l

RT: 2.794 min Scan# 280

Delta R.T. 0.006 min

Lab File: VX042077.D

Acq: 27 Jun 2024 16:11

Tgt Ion: 84 Resp: 1887

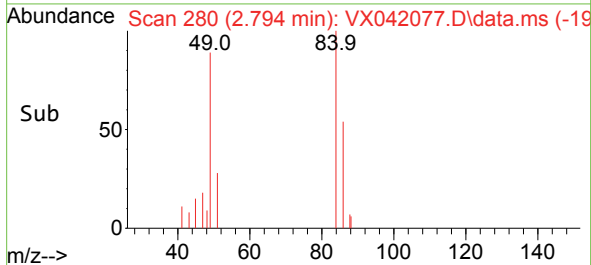
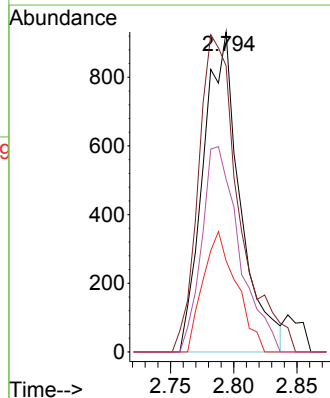
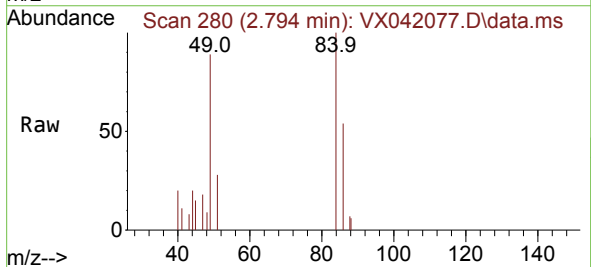
Ion Ratio Lower Upper

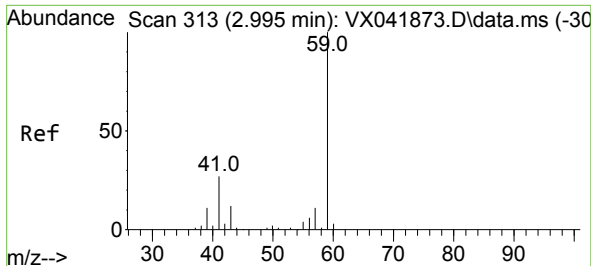
84 100

49 82.7 85.3 127.9#

51 28.4 28.5 42.7#

86 54.0 49.6 74.4

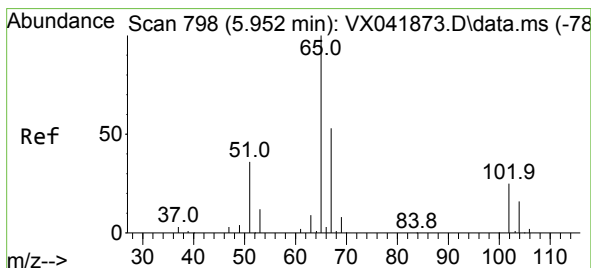
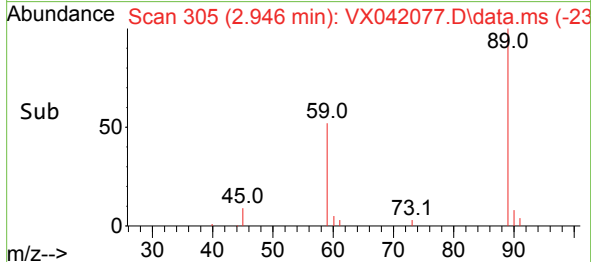
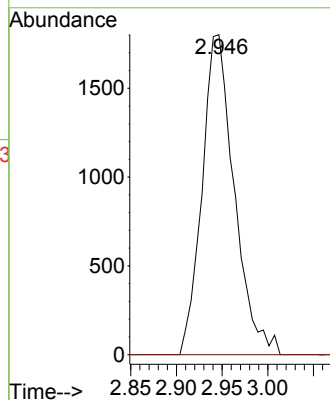
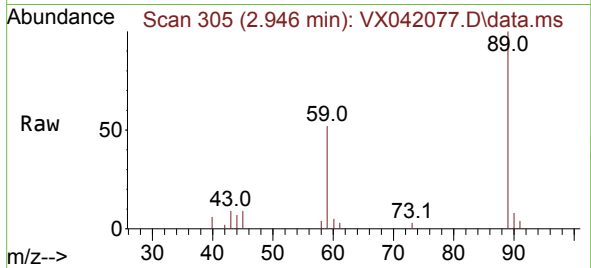




#23
tert-Butyl Alcohol
Concen: 10.696 ug/l
RT: 2.946 min Scan# 30
Delta R.T. -0.049 min
Lab File: VX042077.D
Acq: 27 Jun 2024 16:11

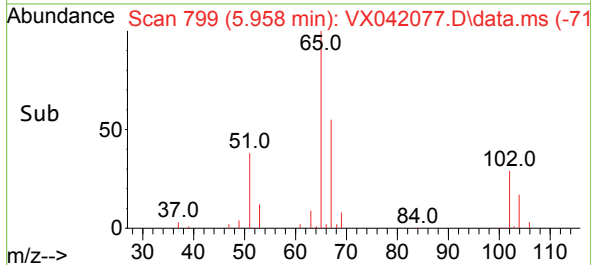
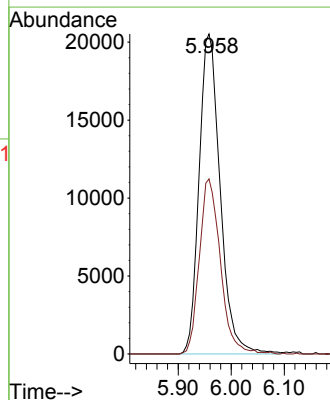
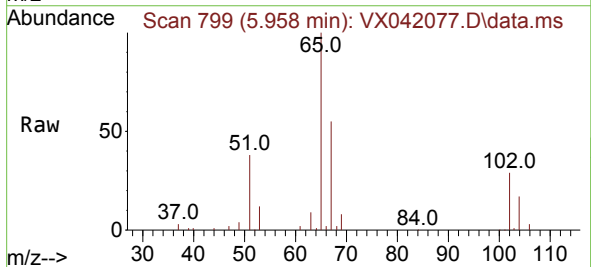
Instrument :
MSVOA_X
ClientSampleId :

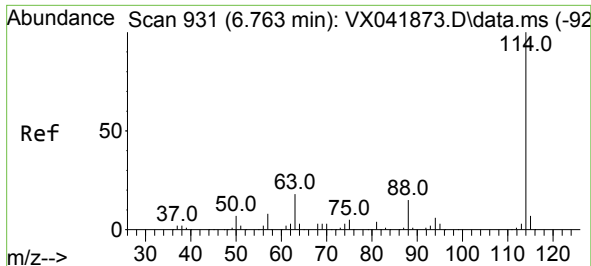
Tgt Ion: 59 Resp: 4410
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 27.465 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX042077.D
Acq: 27 Jun 2024 16:11

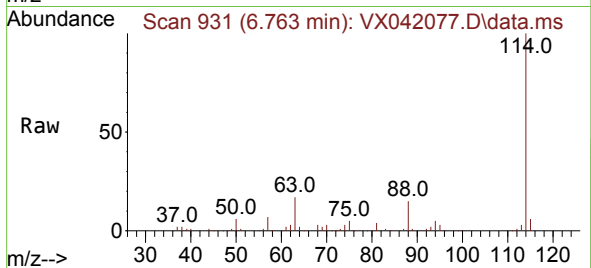
Tgt Ion: 65 Resp: 56697
Ion Ratio Lower Upper
65 100
67 54.2 43.4 65.0



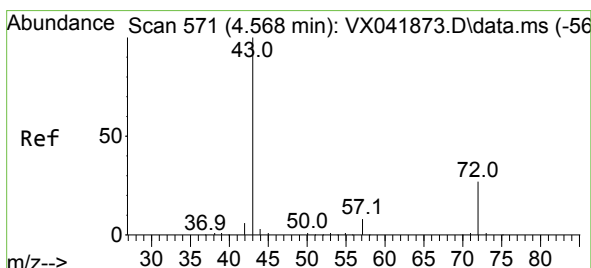
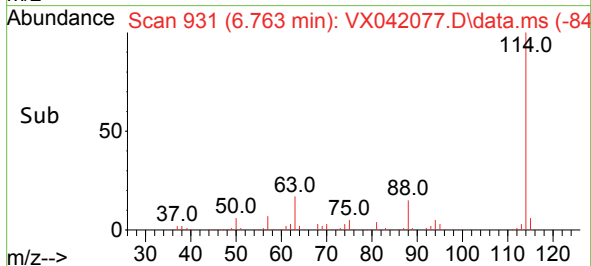
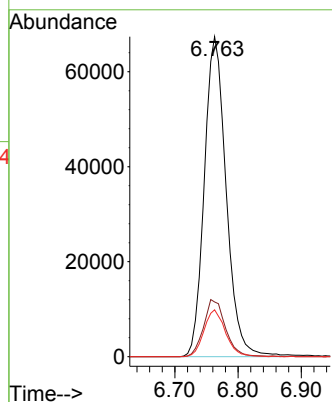


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX042077.D
Acq: 27 Jun 2024 16:11

Instrument :
MSVOA_X
ClientSampleId :

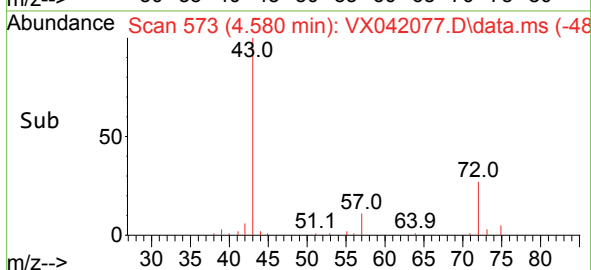
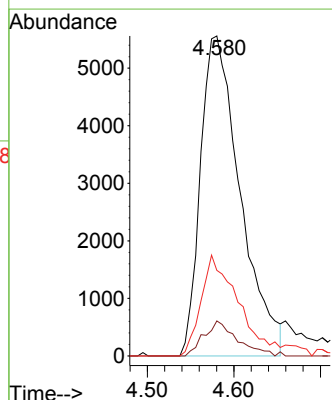
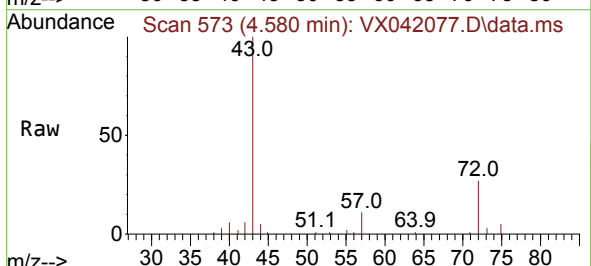


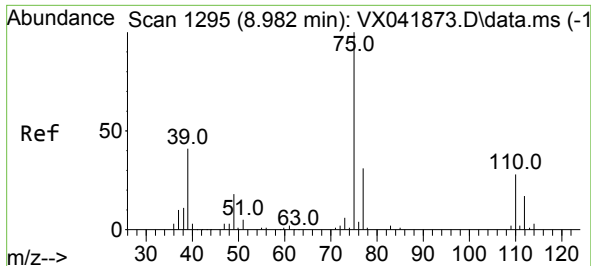
Tgt Ion:114 Resp: 162063
Ion Ratio Lower Upper
114 100
63 17.8 14.6 21.8
88 14.4 11.8 17.8



#30
2-Butanone
Concen: 12.556 ug/l
RT: 4.580 min Scan# 573
Delta R.T. 0.012 min
Lab File: VX042077.D
Acq: 27 Jun 2024 16:11

Tgt Ion: 43 Resp: 17745
Ion Ratio Lower Upper
43 100
57 9.1 6.5 9.7
72 29.4 22.0 33.0

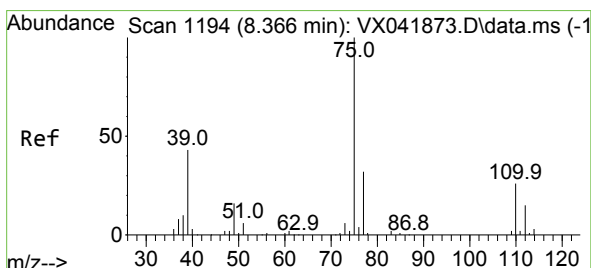
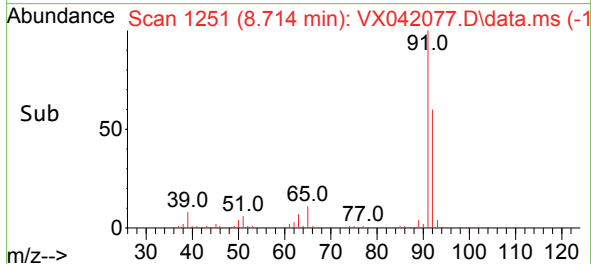
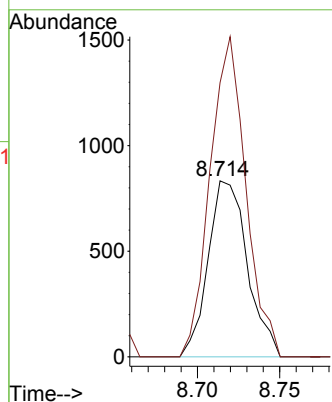
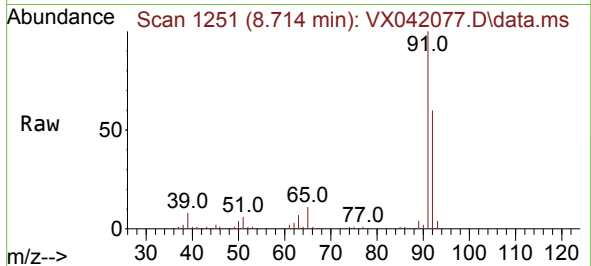




#48
 t-1,3-Dichloropropene
 Concen: 0.603 ug/l
 RT: 8.714 min Scan# 1194
 Delta R.T. -0.268 min
 Lab File: VX042077.D
 Acq: 27 Jun 2024 16:11

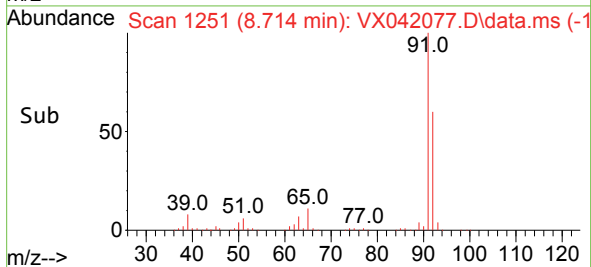
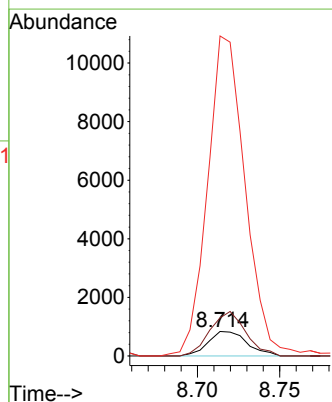
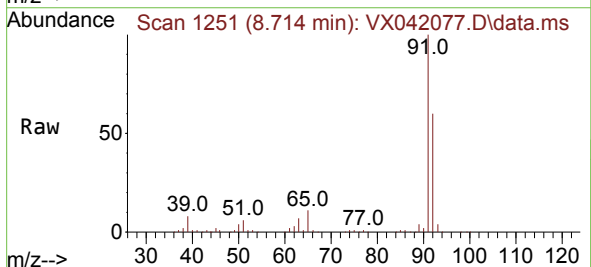
Instrument :
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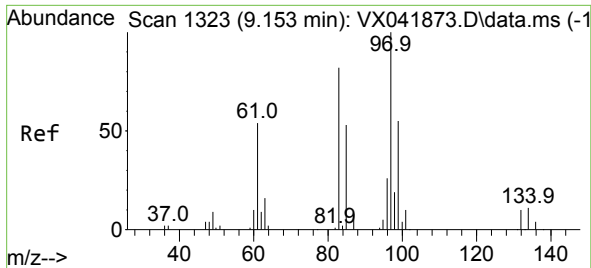
Tgt Ion: 75 Resp: 1382
 Ion Ratio Lower Upper
 75 100
 77 155.8 25.1 37.7#



#49
 cis-1,3-Dichloropropene
 Concen: 0.538 ug/l
 RT: 8.714 min Scan# 1251
 Delta R.T. 0.347 min
 Lab File: VX042077.D
 Acq: 27 Jun 2024 16:11

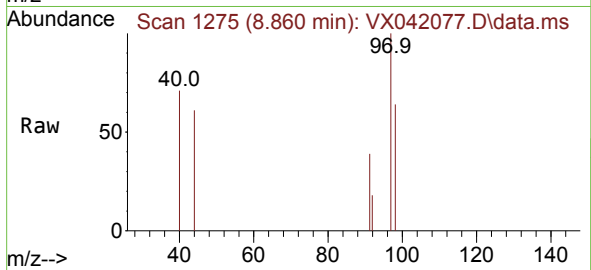
Tgt Ion: 75 Resp: 1382
 Ion Ratio Lower Upper
 75 100
 77 155.8 25.8 38.8#
 39 1294.7 34.8 52.2#



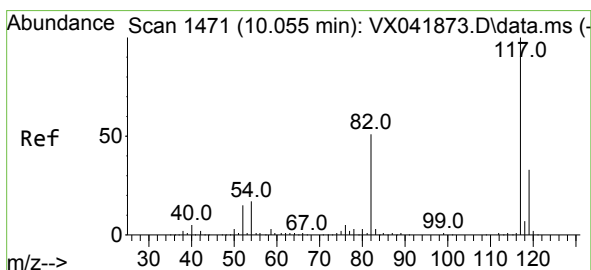
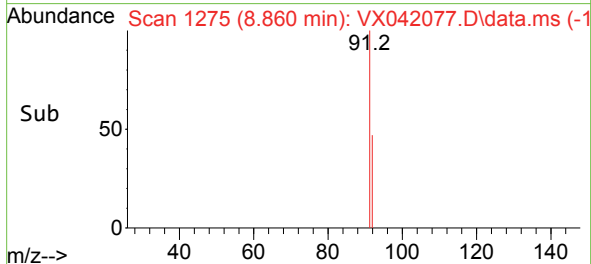
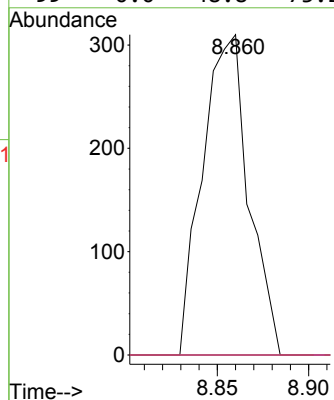


#50
1,1,2-Trichloroethane
Concen: 0.302 ug/l
RT: 8.860 min Scan# 1275
Delta R.T. -0.293 min
Lab File: VX042077.D
Acq: 27 Jun 2024 16:11

Instrument :
MSVOA_X
ClientSampleId :

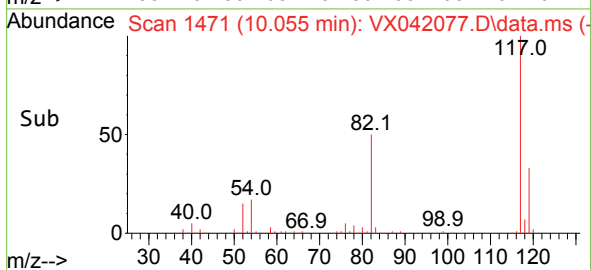
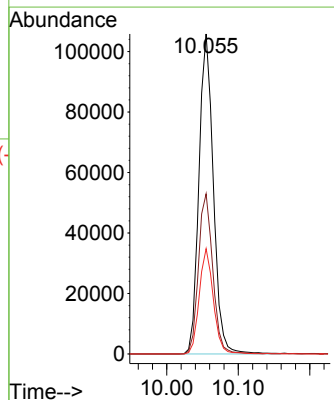
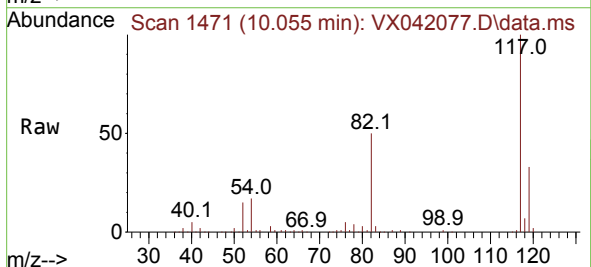


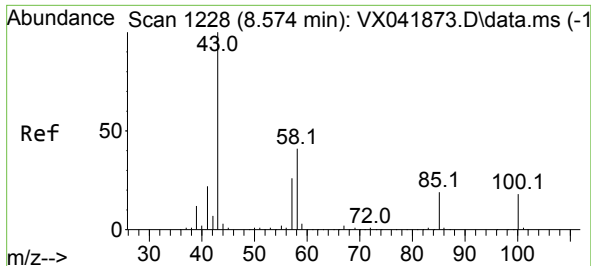
Tgt Ion: 97	Resp: 546
Ion Ratio	Lower Upper
97 100	
83 0.0	65.9 98.9#
85 0.0	42.9 64.3#
99 0.0	48.8 73.2#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX042077.D
Acq: 27 Jun 2024 16:11

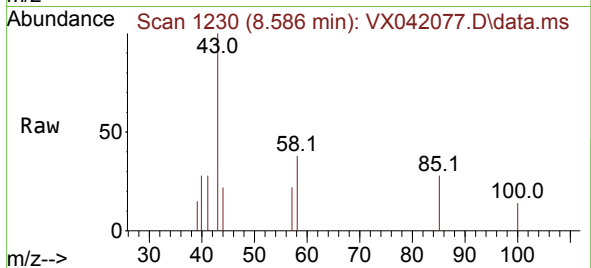
Tgt Ion:117	Resp:	147875	
Ion	Ratio	Lower	Upper
117	100		
82	49.6	41.1	61.7
119	32.2	26.1	39.1



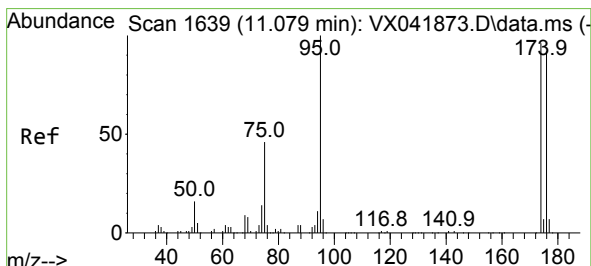
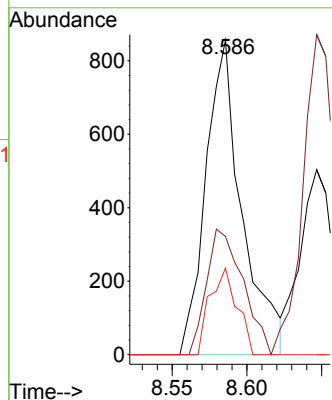
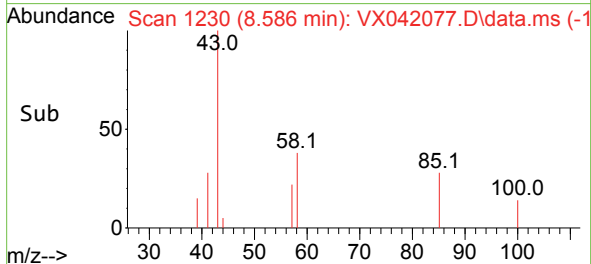


#58
4-Methyl-2-Pentanone
Concen: 0.543 ug/l
RT: 8.586 min Scan# 1230
Delta R.T. 0.012 min
Lab File: VX042077.D
Acq: 27 Jun 2024 16:11

Instrument :
MSVOA_X
ClientSampleId :

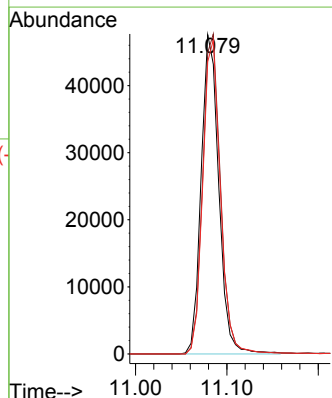
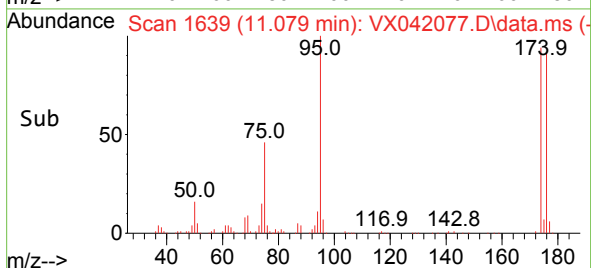
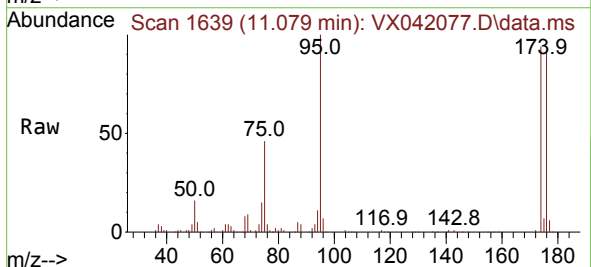


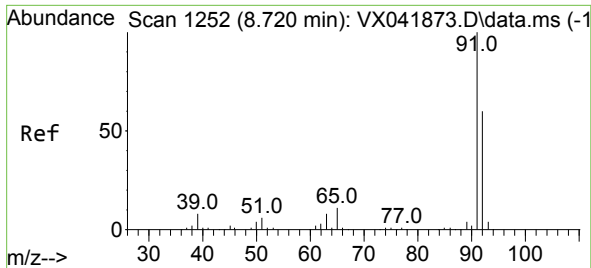
Tgt Ion: 43 Resp: 1440
Ion Ratio Lower Upper
43 100
58 40.2 33.2 49.8
85 20.6 15.5 23.3



#60
4-Bromofluorobenzene
Concen: 27.759 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX042077.D
Acq: 27 Jun 2024 16:11

Tgt Ion: 95 Resp: 63541
Ion Ratio Lower Upper
95 100
174 101.0 78.9 118.3
176 97.9 77.1 115.7

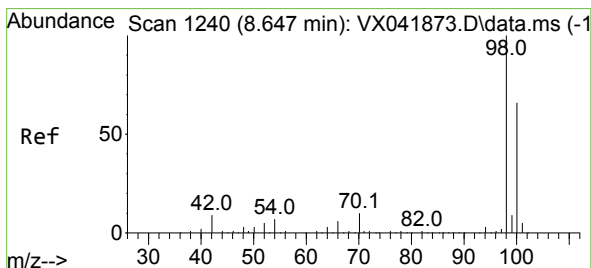
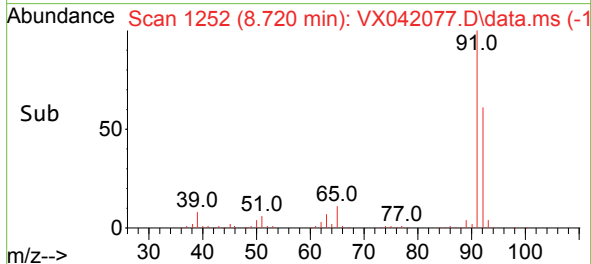
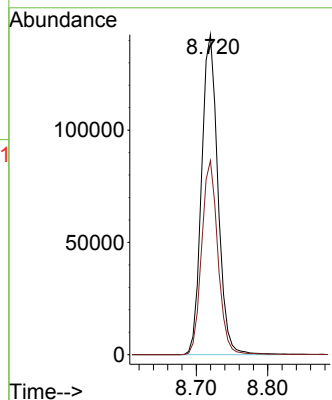
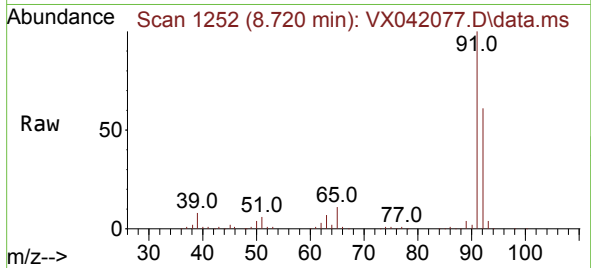




#62
Toluene
Concen: 30.217 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX042077.D
Acq: 27 Jun 2024 16:11

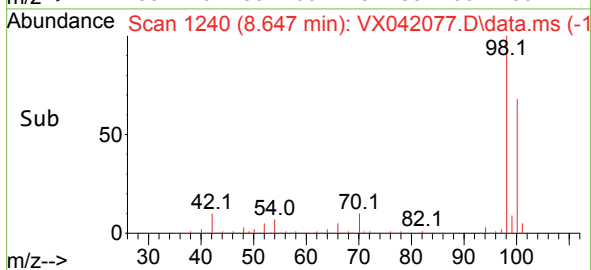
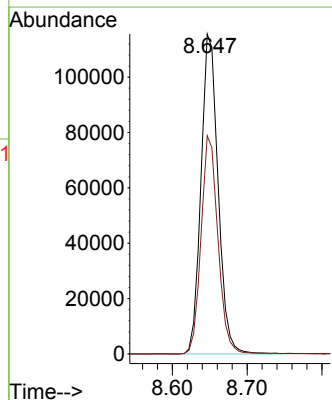
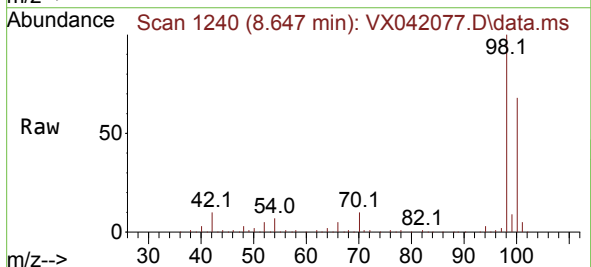
Instrument :
MSVOA_X
ClientSampleId :

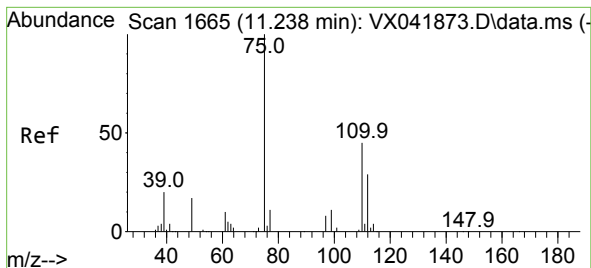
Tgt Ion: 91 Resp: 226115
Ion Ratio Lower Upper
91 100
92 60.2 47.4 71.2



#63
Toluene-d8
Concen: 28.981 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX042077.D
Acq: 27 Jun 2024 16:11

Tgt Ion: 98 Resp: 183354
Ion Ratio Lower Upper
98 100
100 67.4 52.7 79.1





#72

1,2,3-Trichloropropane

Concen: 12.322 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX042077.D

Acq: 27 Jun 2024 16:11

Instrument :

MSVOA_X

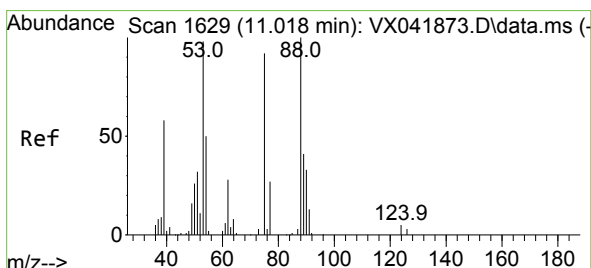
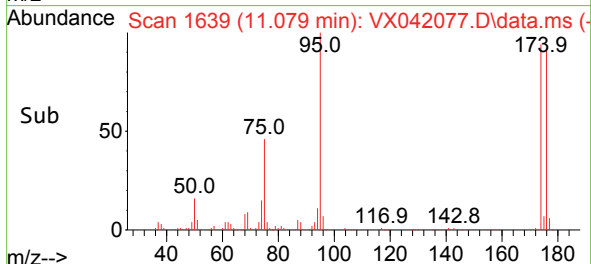
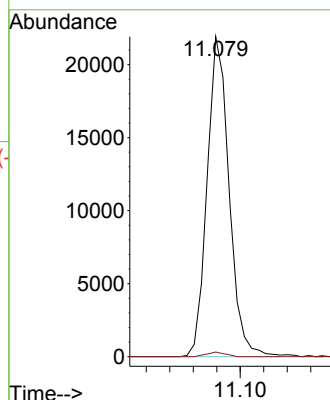
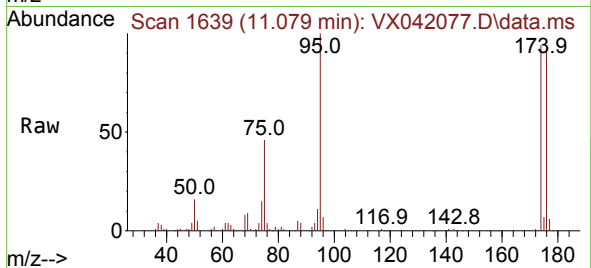
ClientSampleId :

Tgt Ion: 75 Resp: 28493

Ion Ratio Lower Upper

75 100

77 1.2 0.0 79.6



#77

t-1,4-Dichloro-2-butene

Concen: 33.309 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX042077.D

Acq: 27 Jun 2024 16:11

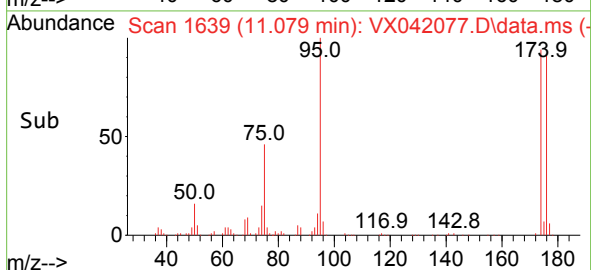
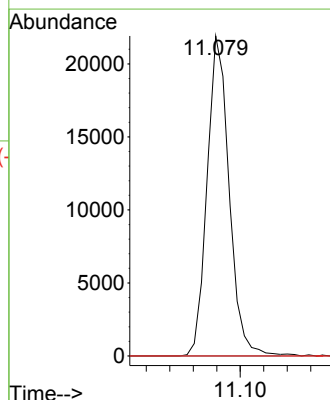
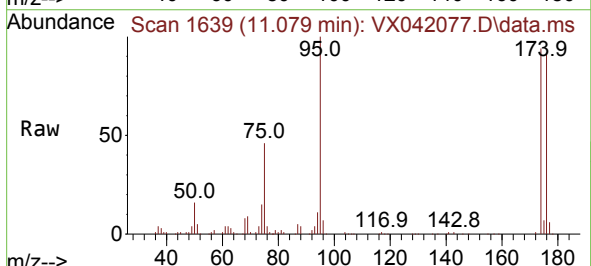
Tgt Ion: 75 Resp: 28493

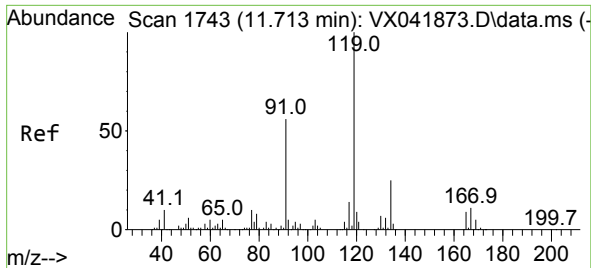
Ion Ratio Lower Upper

75 100

53 0.0 53.4 160.2#

89 0.0 22.5 67.5#

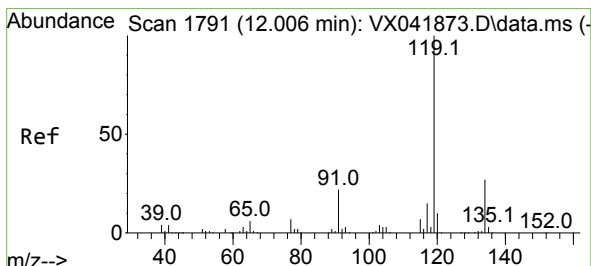
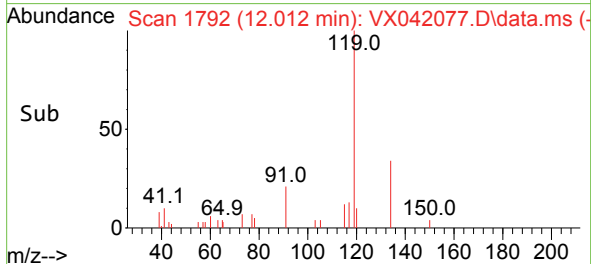
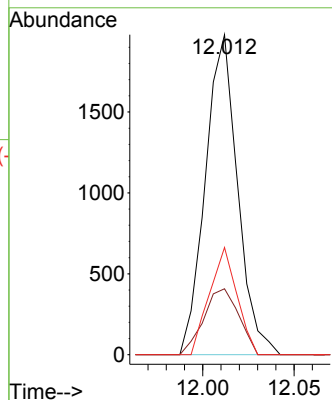
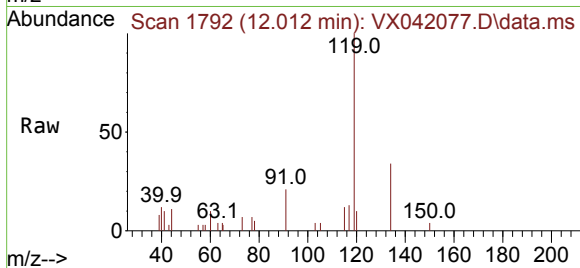




#79
tert-butylbenzene
Concen: 0.331 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.299 min
Lab File: VX042077.D
Acq: 27 Jun 2024 16:11

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion:119 Resp: 2428
Ion Ratio Lower Upper
119 100
91 22.4 0.0 106.0
134 28.7 0.0 49.4



#82
p-Isopropyltoluene
Concen: 0.324 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX042077.D
Acq: 27 Jun 2024 16:11

Tgt Ion:119 Resp: 2428
Ion Ratio Lower Upper
119 100
134 28.7 0.0 54.0
91 22.4 0.0 42.2

