

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100924\
 Data File : VX043332.D
 Acq On : 09 Oct 2024 12:26
 Operator : JC/MD
 Sample : PB163972ZHE#01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

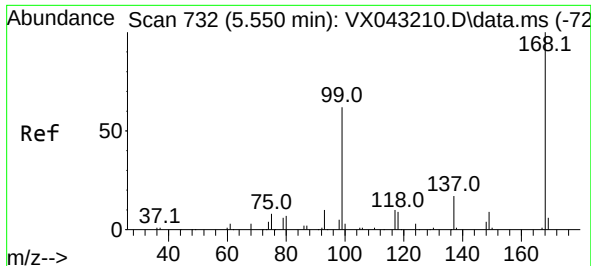
Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 10 01:29:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:50:57 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	78860	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	149834	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	125076	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	53239	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	66891	51.938	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.880%			
35) Dibromofluoromethane	5.385	113	48249	46.693	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.380%			
50) Toluene-d8	8.647	98	176913	49.404	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.800%			
62) 4-Bromofluorobenzene	11.079	95	61097	46.964	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.920%			
Target Compounds						
					Qvalue	
5) Bromomethane	1.599	94	94	0.243	ug/l #	68
6) Chloroethane	1.648	64	111	0.315	ug/l #	42
11) Tert butyl alcohol	2.947	59	1083	4.419	ug/l #	71
13) Acrolein	2.233	56	61	0.264	ug/l	98
16) Acetone	2.392	43	15820	29.414	ug/l	95
18) Methyl Acetate	2.709	43	1909	1.415	ug/l	95
20) Methylene Chloride	2.788	84	6656	6.712	ug/l	98
23) Vinyl Acetate	3.764	43	85	6.365	ug/l #	71
25) 2-Butanone	4.587	43	4249	5.762	ug/l	92
29) Tetrahydrofuran	5.038	42	229	0.487	ug/l #	31
31) Cyclohexane	5.550	56	1997	1.437	ug/l #	33
36) 1,1-Dichloropropene	5.550	75	6822	5.226	ug/l #	49
37) Ethyl Acetate	4.745	43	1164	0.743	ug/l #	75
38) Carbon Tetrachloride	5.550	117	8856	5.731	ug/l #	14
41) Methacrylonitrile	5.050	41	295	0.362	ug/l #	37
42) 1,2-Dichloroethane	6.342	62	338	0.210	ug/l #	77
43) Isopropyl Acetate	6.342	43	87639	33.847	ug/l	99
48) Methyl methacrylate	7.799	41	75047	59.070	ug/l #	45
49) 1,4-Dioxane	7.799	88	42	1.701	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	67977	43.226	ug/l #	50
53) t-1,3-Dichloropropene	8.952	75	601	0.395	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	28821	17.673	ug/l #	58
57) 1,3-Dichloropropane	9.482	76	3474	2.069	ug/l #	43
59) 2-Hexanone	9.482	43	51570	43.364	ug/l #	55
74) N-amyl acetate	10.640	43	16431	8.362	ug/l #	54
76) 1,2,3-Trichloropropane	11.079	75	33855	28.669	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	33855	74.300	ug/l #	8
95) Naphthalene	13.780	128	871	0.226	ug/l #	74

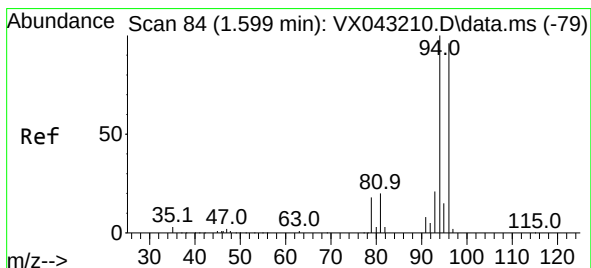
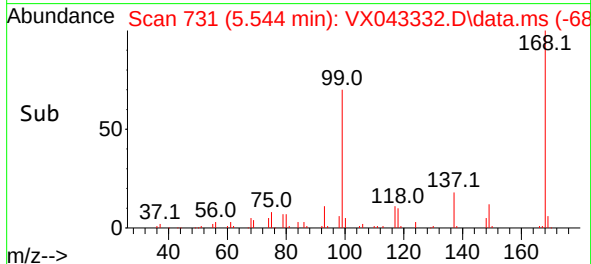
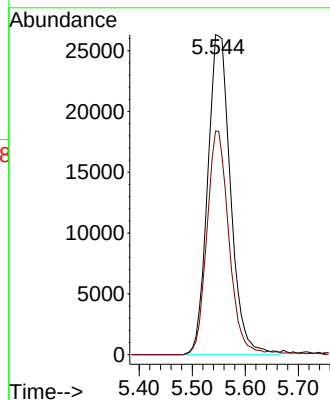
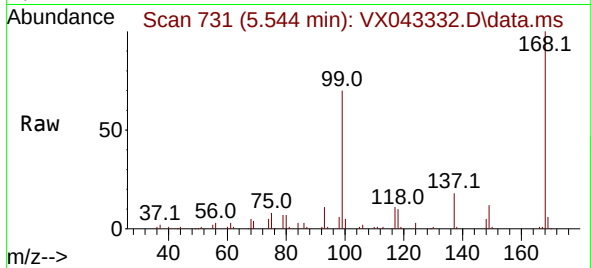
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

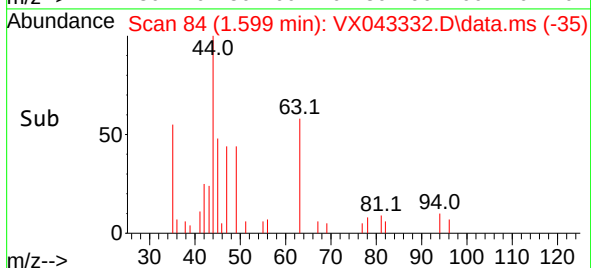
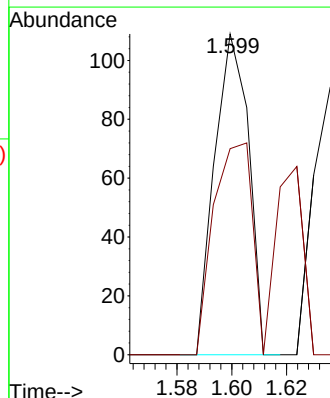
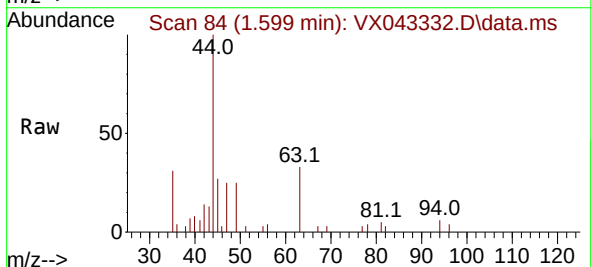
Instrument :
MSVOA_X
ClientSampleId :

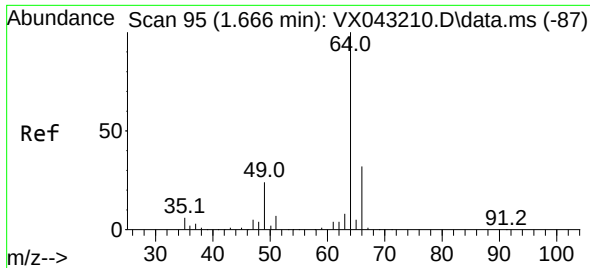
Tgt Ion:168 Resp: 78860
Ion Ratio Lower Upper
168 100
99 69.9 49.7 74.5



#5
Bromomethane
Concen: 0.243 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.000 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

Tgt Ion: 94 Resp: 94
Ion Ratio Lower Upper
94 100
96 64.2 76.6 115.0#

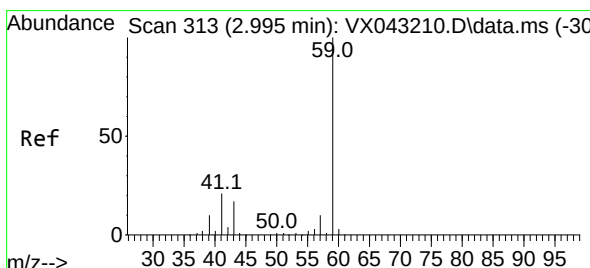
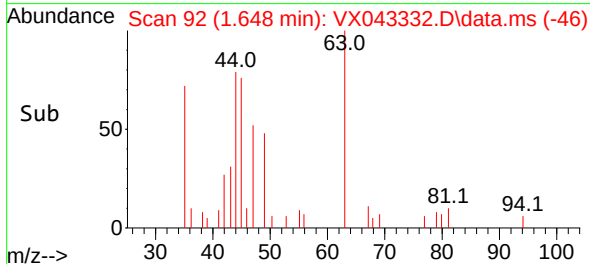
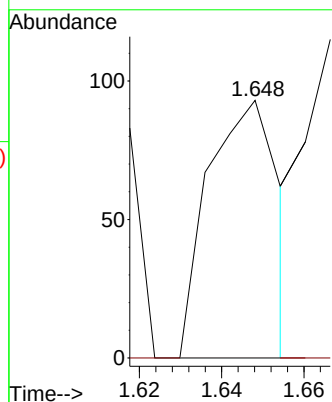
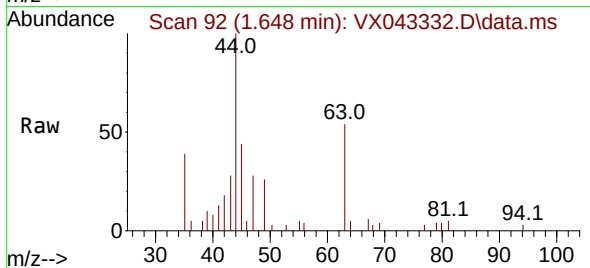




#6
Chloroethane
Concen: 0.315 ug/l
RT: 1.648 min Scan# 91
Delta R.T. -0.018 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

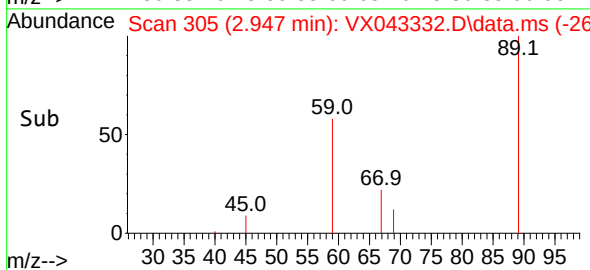
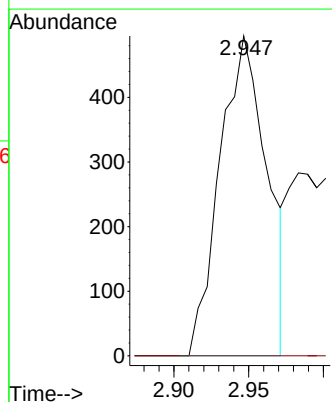
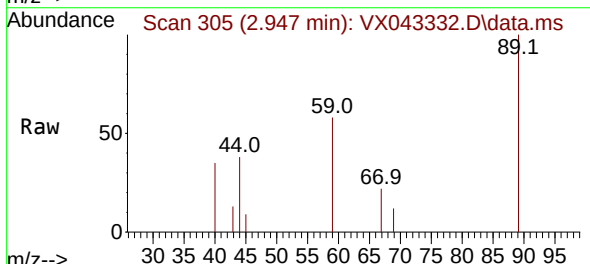
Instrument :
MSVOA_X
ClientSampleId :

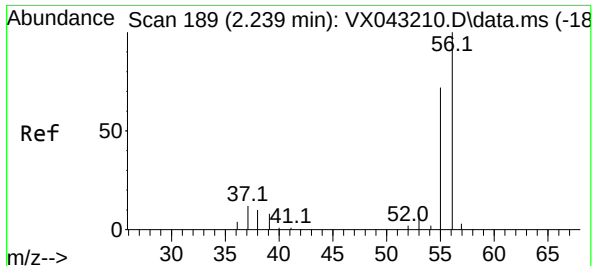
Tgt Ion: 64 Resp: 111
Ion Ratio Lower Upper
64 100
66 0.0 25.8 38.8#



#11
Tert butyl alcohol
Concen: 4.419 ug/l
RT: 2.947 min Scan# 305
Delta R.T. -0.049 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

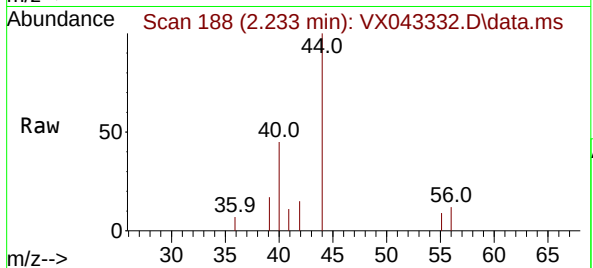
Tgt Ion: 59 Resp: 1083
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



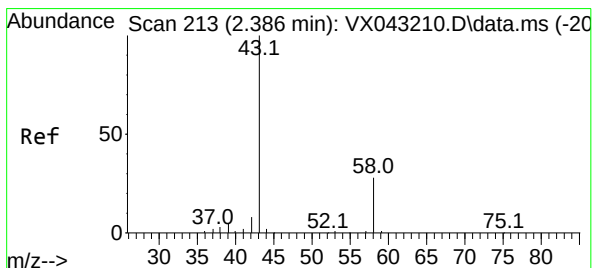
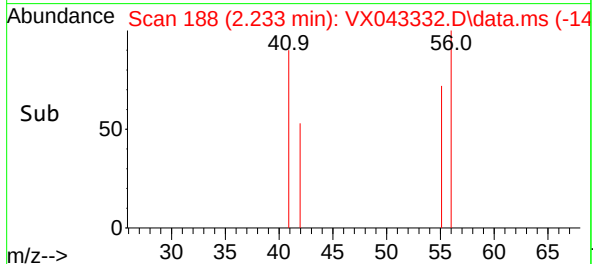
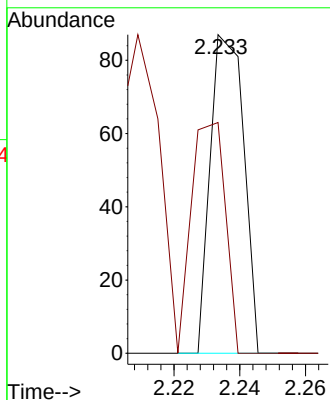


#13
Acrolein
Concen: 0.264 ug/l
RT: 2.233 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

Instrument :
MSVOA_X
ClientSampleId :

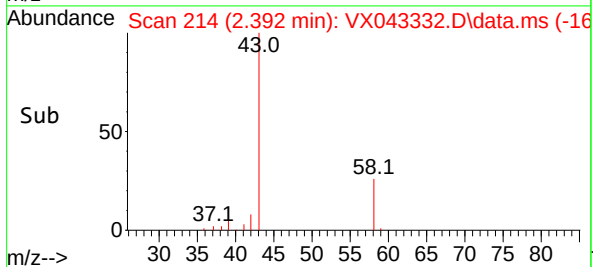
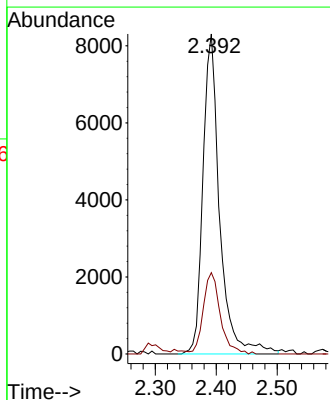
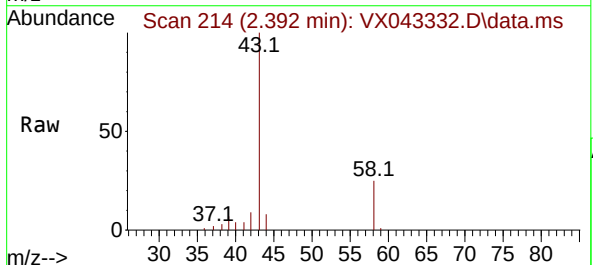


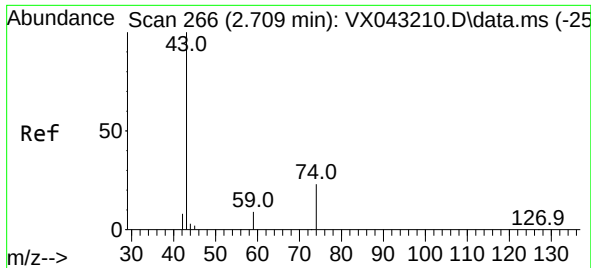
Tgt Ion: 56 Resp: 61
Ion Ratio Lower Upper
56 100
55 73.8 57.4 86.0



#16
Acetone
Concen: 29.414 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

Tgt Ion: 43 Resp: 15820
Ion Ratio Lower Upper
43 100
58 25.4 22.6 33.8

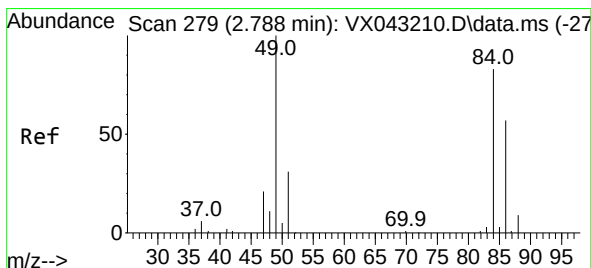
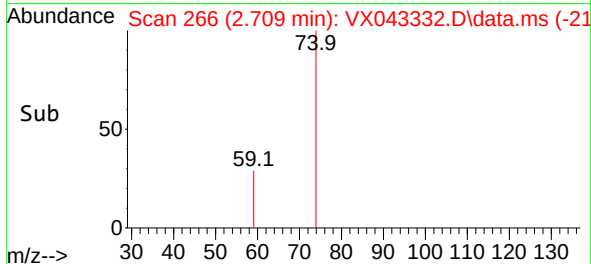
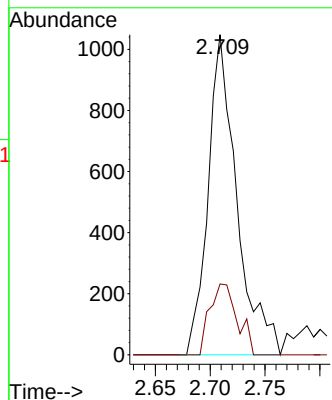
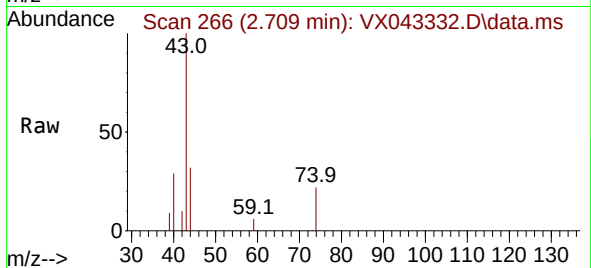




#18
Methyl Acetate
Concen: 1.415 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

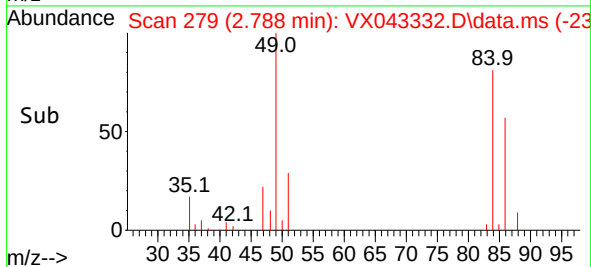
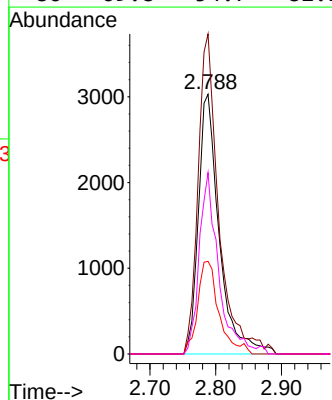
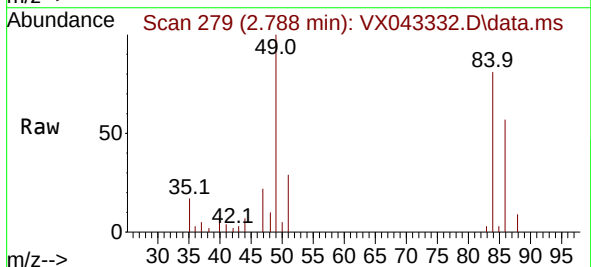
Instrument :
MSVOA_X
ClientSampleId :

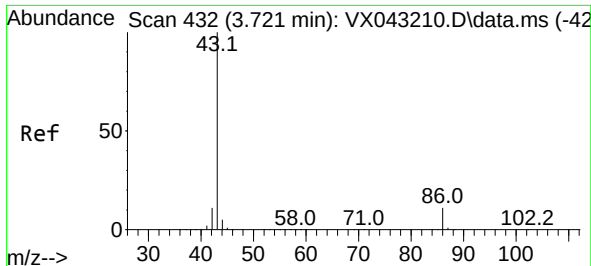
Tgt Ion: 43 Resp: 1909
Ion Ratio Lower Upper
43 100
74 21.2 19.1 28.7



#20
Methylene Chloride
Concen: 6.712 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

Tgt Ion: 84 Resp: 6656
Ion Ratio Lower Upper
84 100
49 123.2 96.7 145.1
51 35.7 30.4 45.6
86 69.8 54.7 82.1

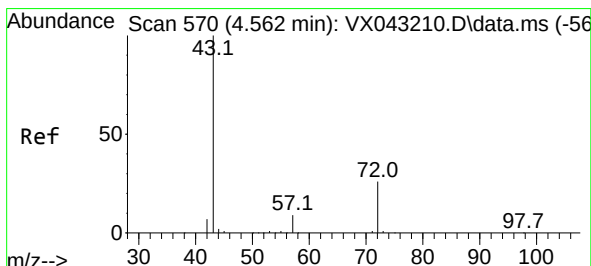
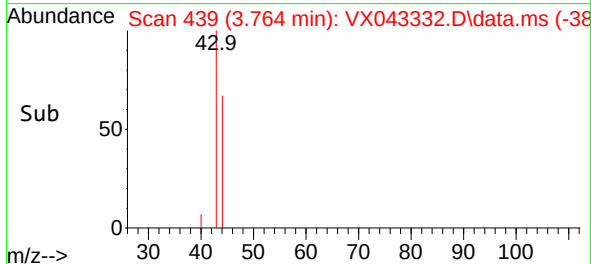
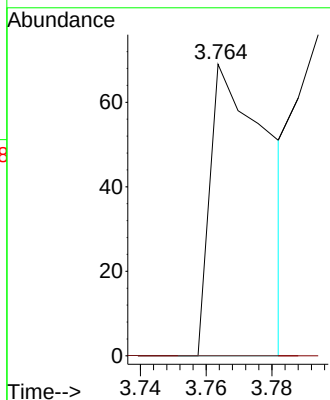
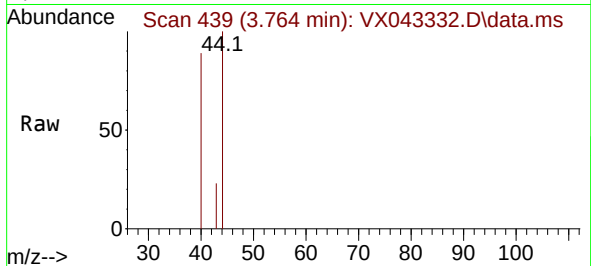




#23
 Vinyl Acetate
 Concen: 6.365 ug/l
 RT: 3.764 min Scan# 41
 Delta R.T. 0.043 min
 Lab File: VX043332.D
 Acq: 09 Oct 2024 12:26

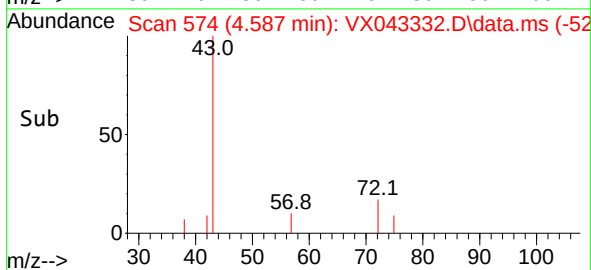
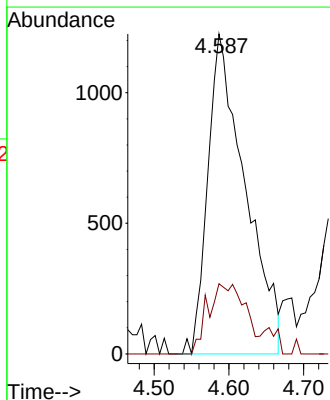
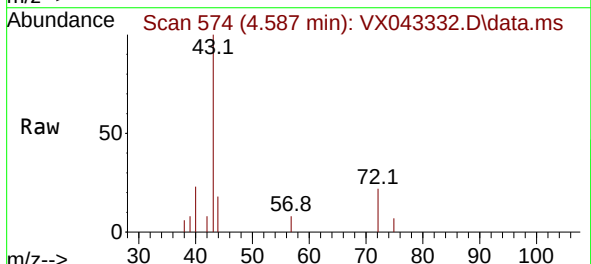
Instrument :
 MSVOA_X
 ClientSampleId :

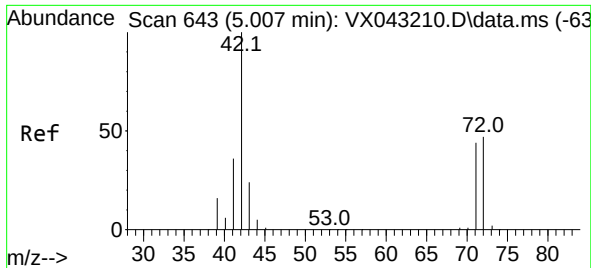
Tgt Ion: 43 Resp: 85
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.8 13.2#



#25
 2-Butanone
 Concen: 5.762 ug/l
 RT: 4.587 min Scan# 574
 Delta R.T. 0.025 min
 Lab File: VX043332.D
 Acq: 09 Oct 2024 12:26

Tgt Ion: 43 Resp: 4249
 Ion Ratio Lower Upper
 43 100
 72 22.0 20.6 31.0





#29

Tetrahydrofuran

Concen: 0.487 ug/l

RT: 5.038 min Scan# 64

Delta R.T. 0.031 min

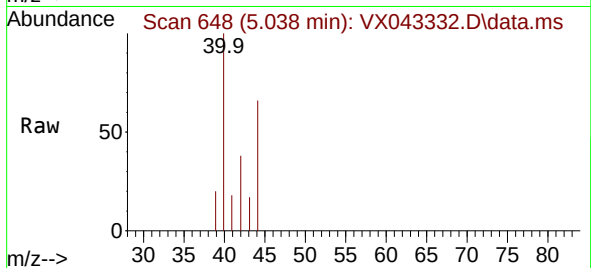
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Acq: 09 Oct 2024 12:26

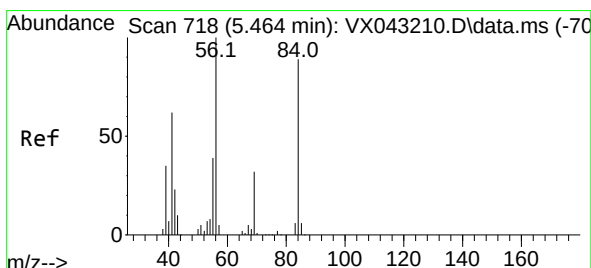
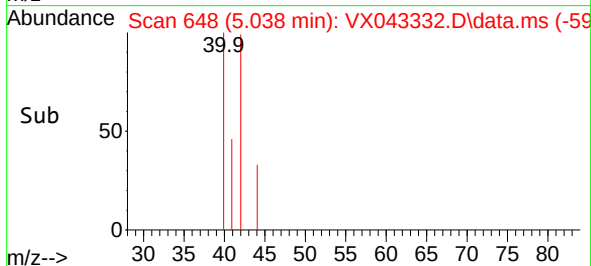
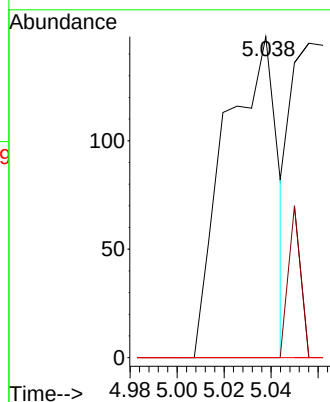
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	42	Resp:	229
Ion	Ratio	Lower	Upper
42	100		
72	0.0	37.7	56.5#
71	0.0	34.6	52.0#



#31

Cyclohexane

Concen: 1.437 ug/l

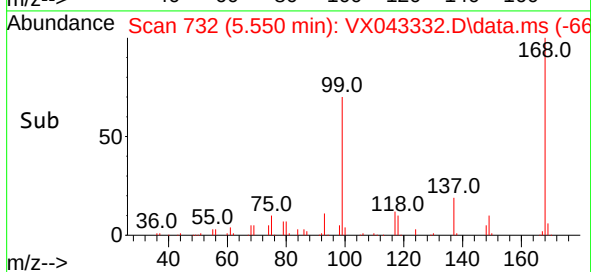
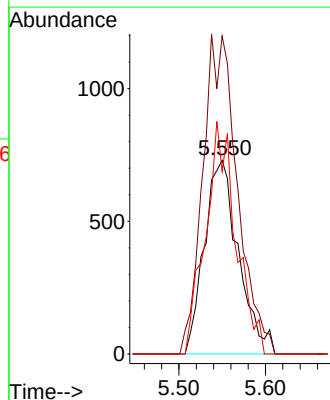
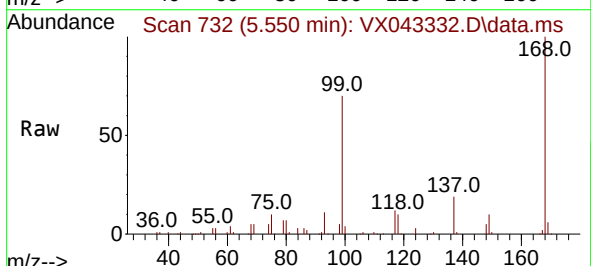
RT: 5.550 min Scan# 732

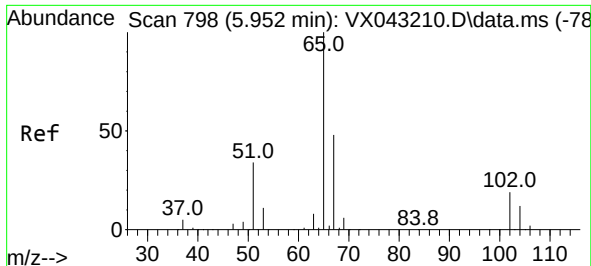
Delta R.T. 0.085 min

Lab File: VX043332.D

Acq: 09 Oct 2024 12:26

Tgt Ion:	56	Resp:	1997
Ion	Ratio	Lower	Upper
56	100		
69	164.1	25.8	38.6#
84	94.2	71.1	106.7





#33

1,2-Dichloroethane-d4

Concen: 51.938 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX043332.D

Acq: 09 Oct 2024 12:26

Instrument :

MSVOA_X

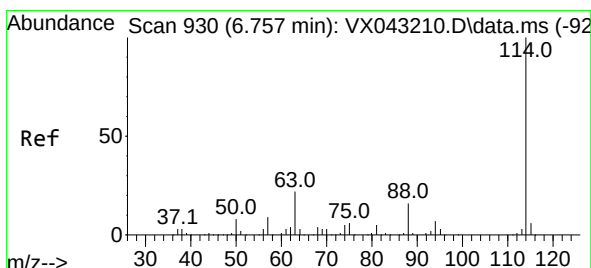
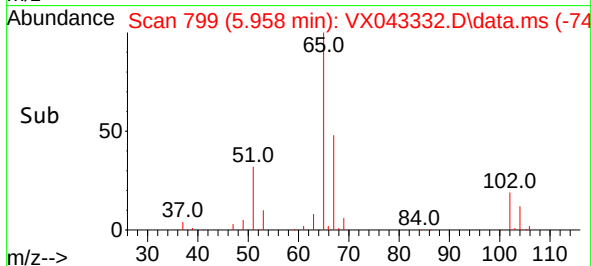
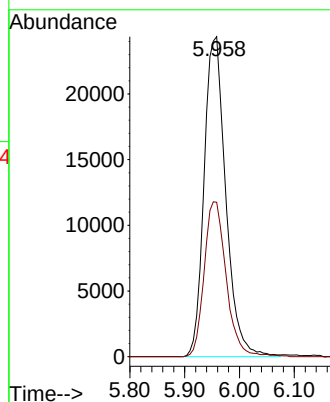
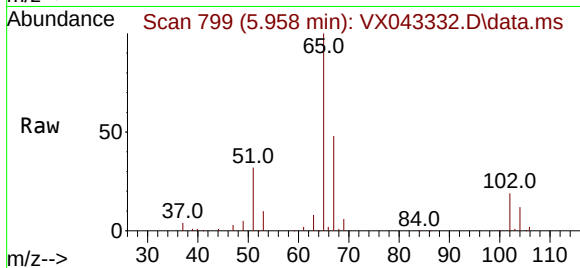
ClientSampleId :

Tgt Ion: 65 Resp: 66891

Ion Ratio Lower Upper

65 100

67 49.2 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX043332.D

Acq: 09 Oct 2024 12:26

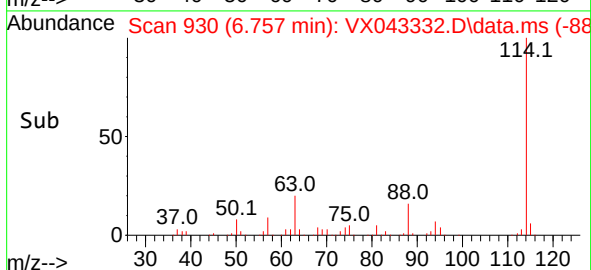
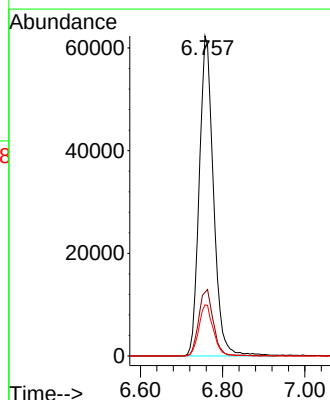
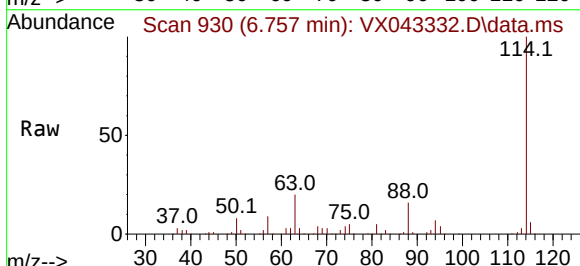
Tgt Ion: 114 Resp: 149834

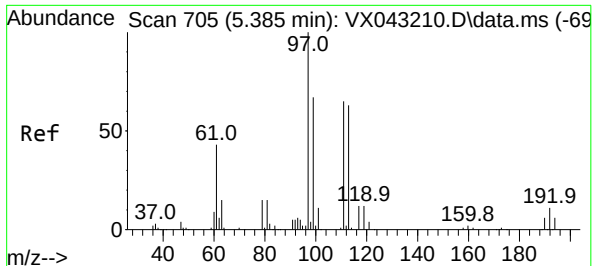
Ion Ratio Lower Upper

114 100

63 19.9 0.0 43.0

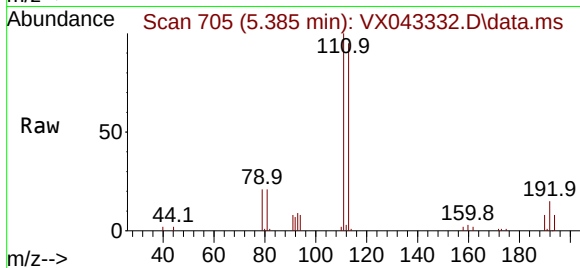
88 15.9 0.0 33.0



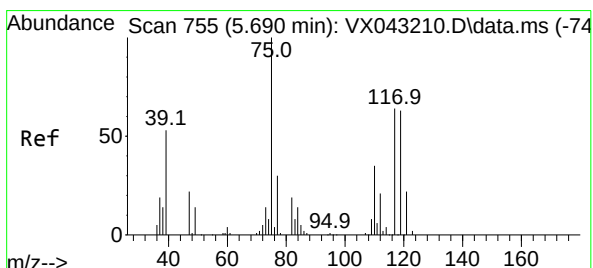
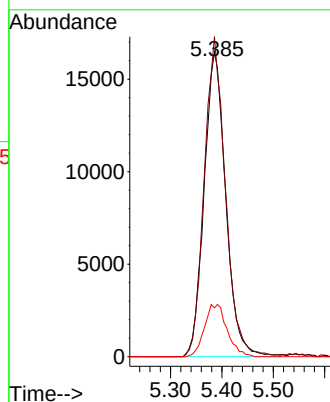
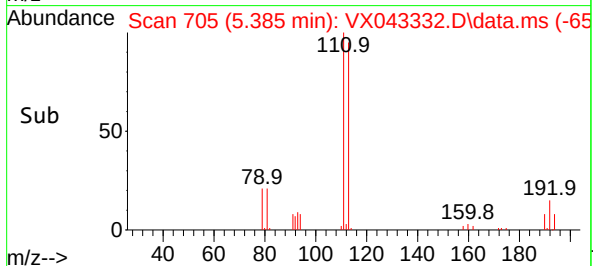


#35
Dibromofluoromethane
Concen: 46.693 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

Instrument :
MSVOA_X
ClientSampleId :

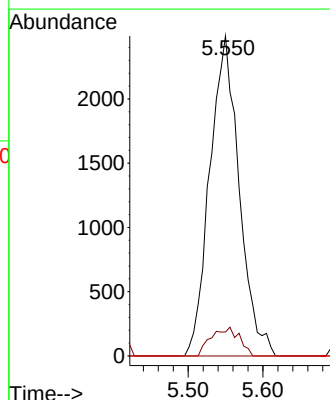
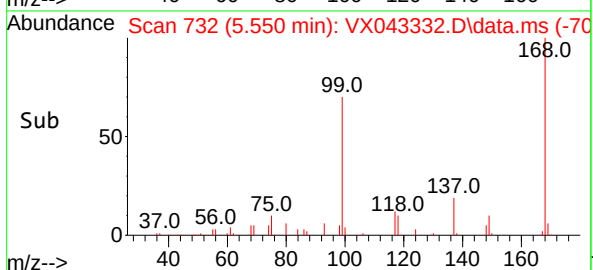
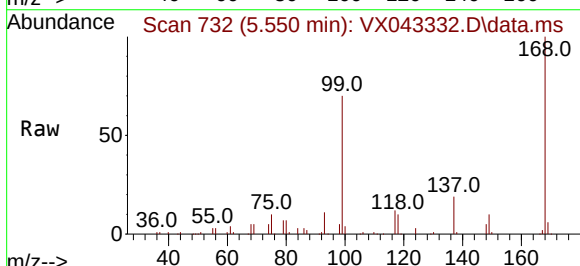


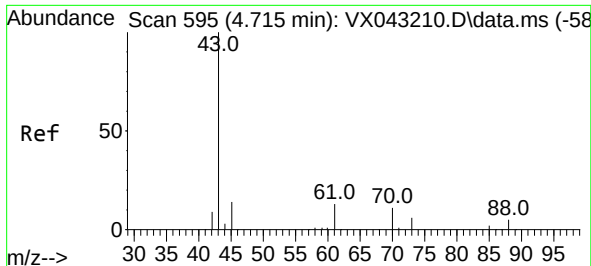
Tgt Ion:113 Resp: 48249
Ion Ratio Lower Upper
113 100
111 102.3 83.4 125.0
192 17.9 14.1 21.1



#36
1,1-Dichloropropene
Concen: 5.226 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.140 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

Tgt Ion: 75 Resp: 6822
Ion Ratio Lower Upper
75 100
110 8.5 17.8 53.3#
77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 0.743 ug/l

RT: 4.745 min Scan# 600

Delta R.T. 0.031 min

Lab File: VX043332.D

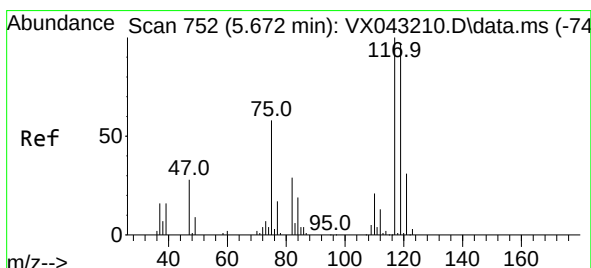
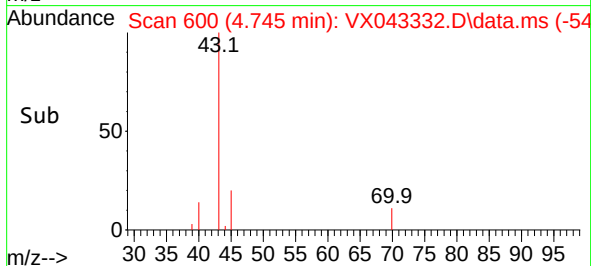
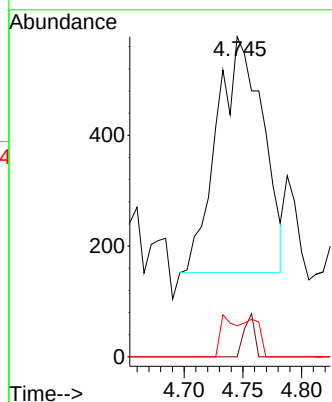
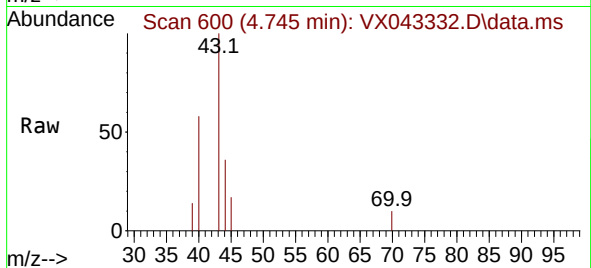
Acq: 09 Oct 2024 12:26

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 43	Resp:	1164
Ion	Ratio	Lower Upper
43	100	
61	0.0	11.0 16.4#
70	6.1	8.9 13.3#



#38

Carbon Tetrachloride

Concen: 5.731 ug/l

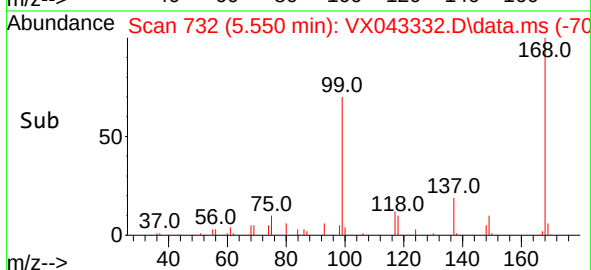
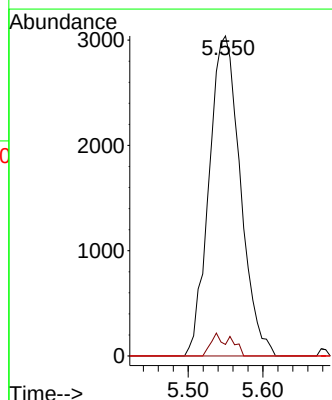
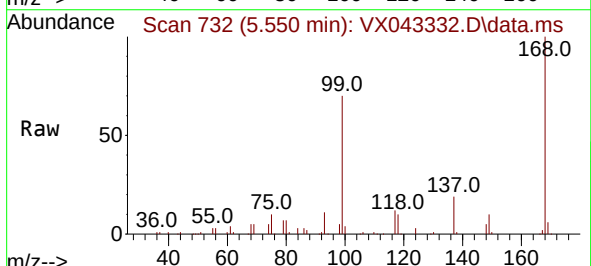
RT: 5.550 min Scan# 732

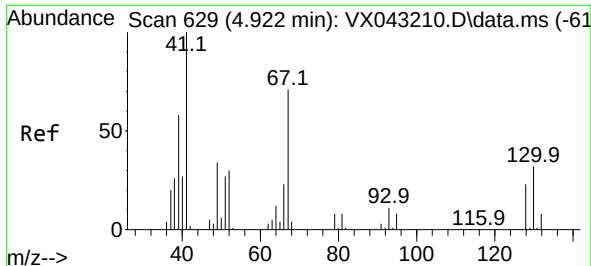
Delta R.T. -0.122 min

Lab File: VX043332.D

Acq: 09 Oct 2024 12:26

Tgt Ion: 117	Resp:	8856
Ion	Ratio	Lower Upper
117	100	
119	3.6	77.7 116.5#
121	0.0	24.3 36.5#

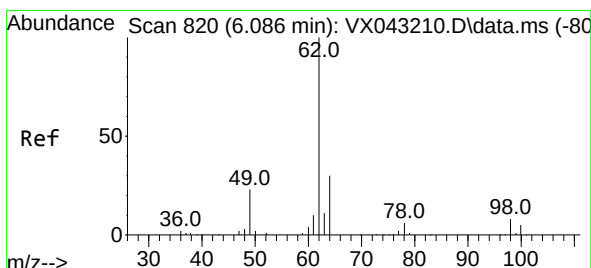
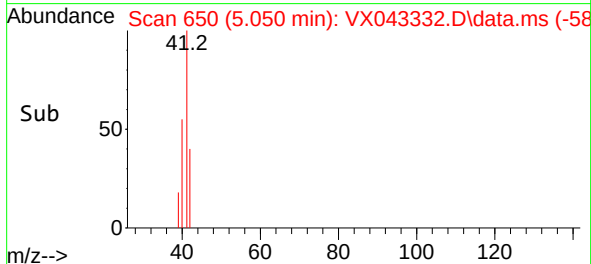
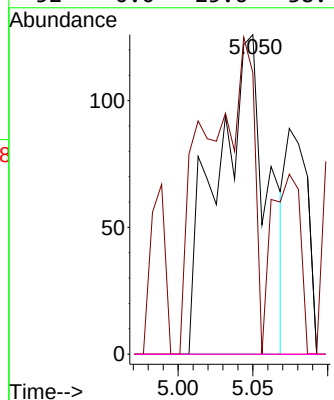
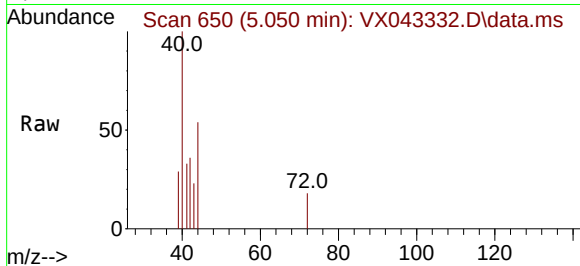




#41
Methacrylonitrile
Concen: 0.362 ug/l
RT: 5.050 min Scan# 61
Delta R.T. 0.128 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

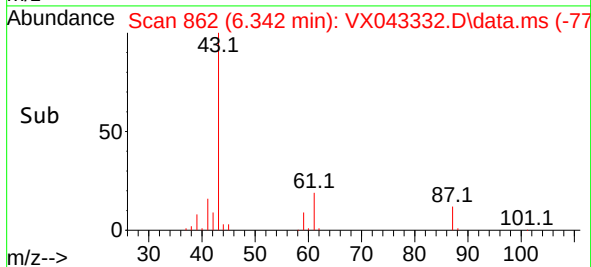
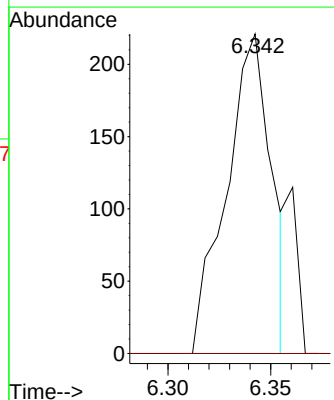
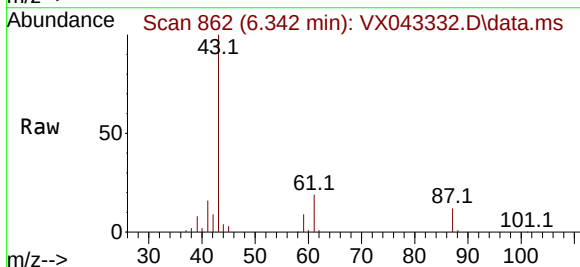
Instrument :
MSVOA_X
ClientSampleId :

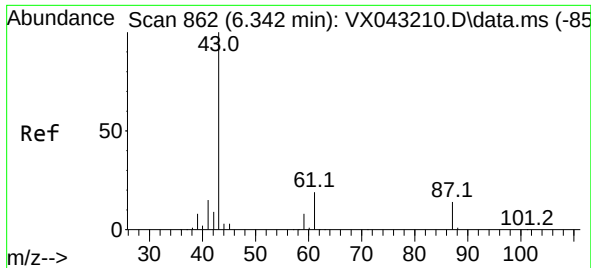
Tgt Ion: 41 Resp: 295
Ion Ratio Lower Upper
41 100
39 29.2 45.0 67.4#
67 0.0 56.0 84.0#
52 0.0 25.6 38.4#



#42
1,2-Dichloroethane
Concen: 0.210 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.256 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

Tgt Ion: 62 Resp: 338
Ion Ratio Lower Upper
62 100
98 0.0 0.0 16.0

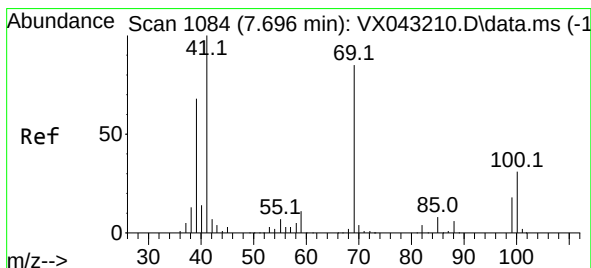
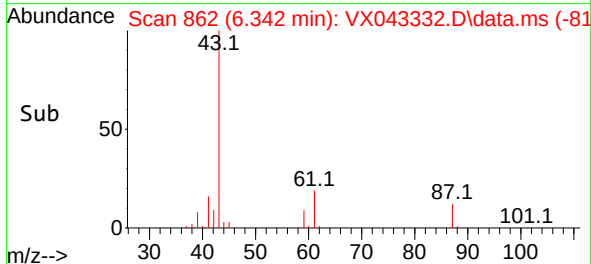
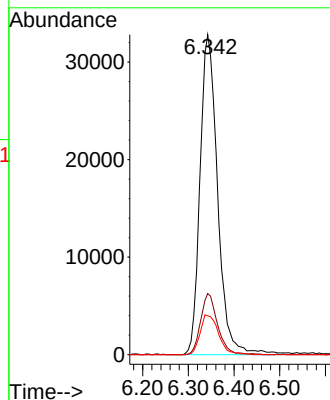
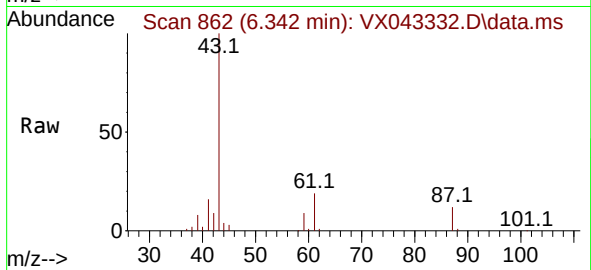




#43
Isopropyl Acetate
Concen: 33.847 ug/l
RT: 6.342 min Scan# 80
Delta R.T. 0.000 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

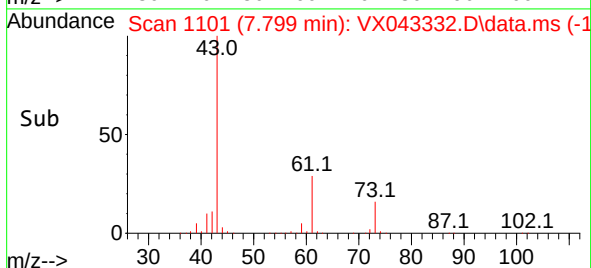
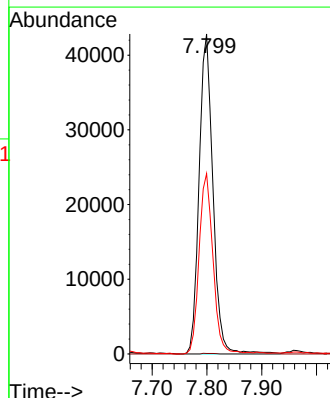
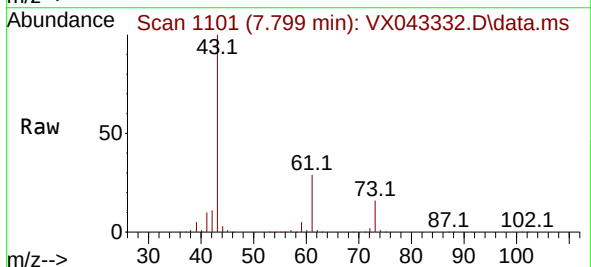
Instrument :
MSVOA_X
ClientSampleId :

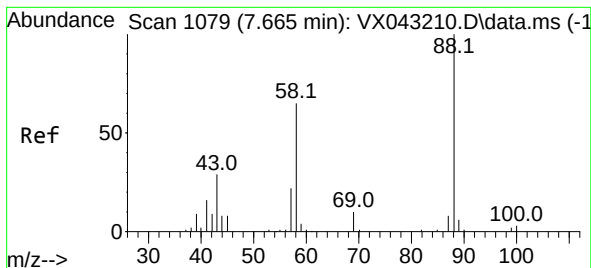
Tgt Ion: 43 Resp: 87639
Ion Ratio Lower Upper
43 100
61 18.3 15.1 22.7
87 13.0 10.8 16.2



#48
Methyl methacrylate
Concen: 59.070 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.104 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

Tgt Ion: 41 Resp: 75047
Ion Ratio Lower Upper
41 100
69 0.2 64.1 96.1#
39 56.8 52.8 79.2





#49

1,4-Dioxane

Concen: 1.701 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.134 min

Lab File: VX043332.D

Acq: 09 Oct 2024 12:26

Instrument :

MSVOA_X

ClientSampleId :

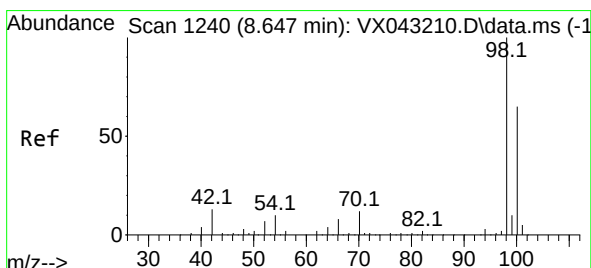
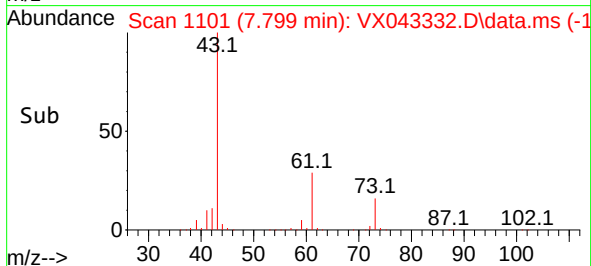
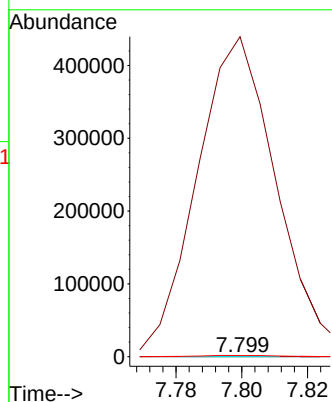
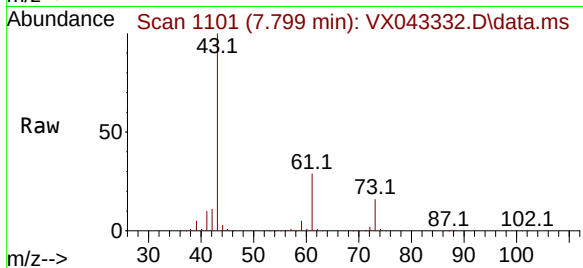
Tgt Ion: 88 Resp: 42

Ion Ratio Lower Upper

88 100

43 1801714.3 29.5 44.3#

58 7254.8 55.2 82.8#



#50

Toluene-d8

Concen: 49.404 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX043332.D

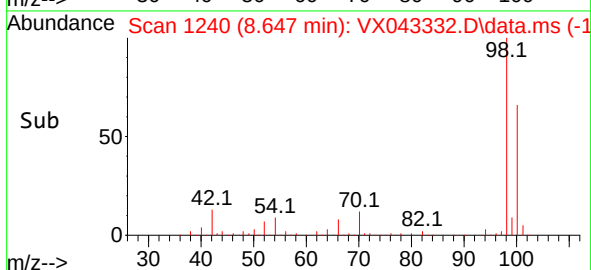
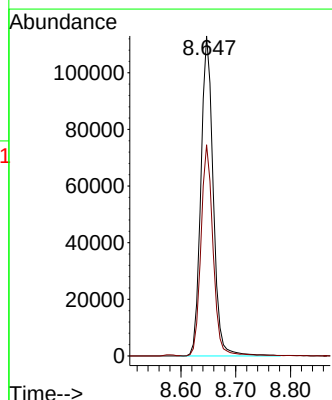
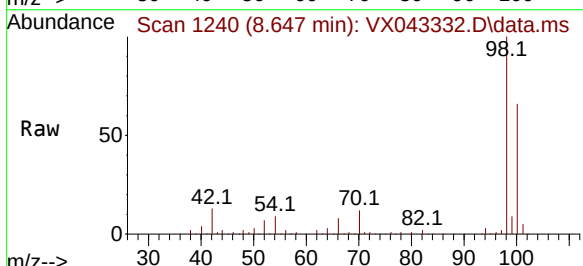
Acq: 09 Oct 2024 12:26

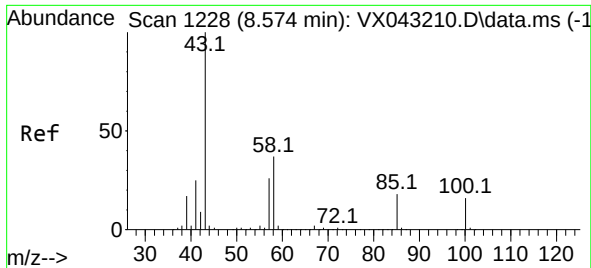
Tgt Ion: 98 Resp: 176913

Ion Ratio Lower Upper

98 100

100 65.0 52.4 78.6

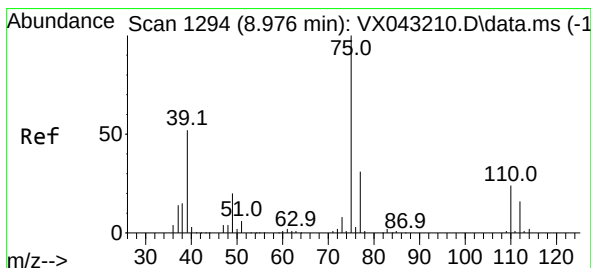
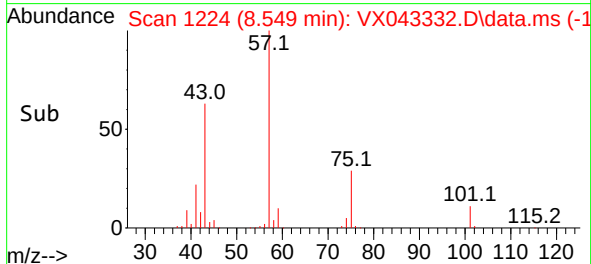
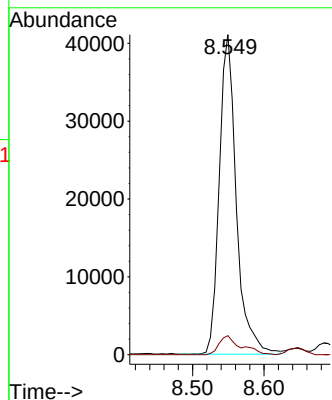
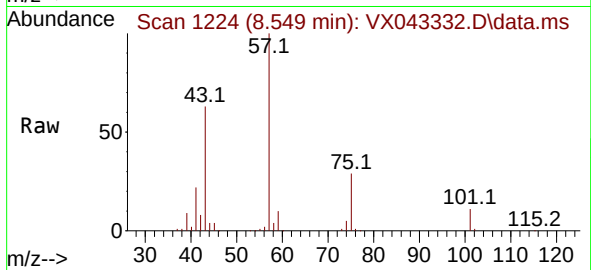




#51
4-Methyl-2-Pentanone
Concen: 43.226 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

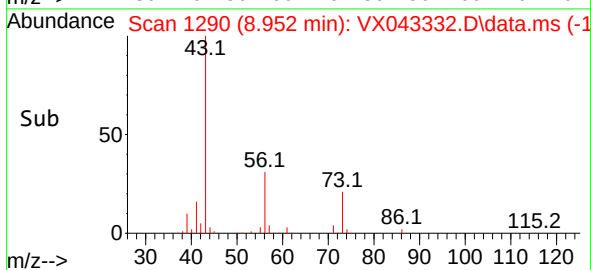
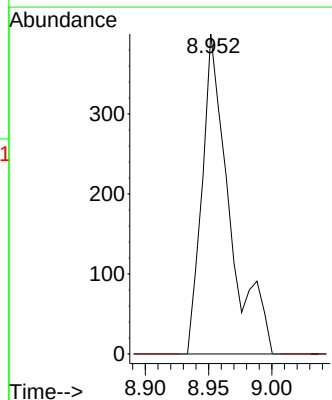
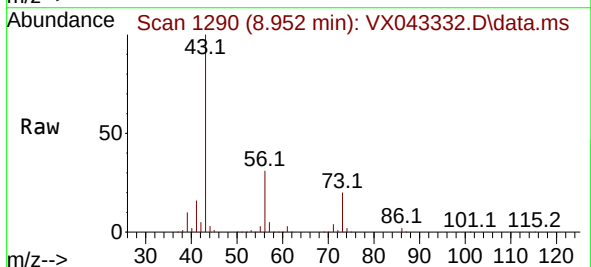
Instrument :
MSVOA_X
ClientSampleId :

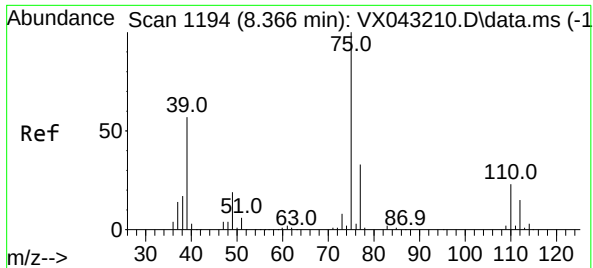
Tgt Ion: 43 Resp: 67977
Ion Ratio Lower Upper
43 100
58 7.6 30.0 45.0#



#53
t-1,3-Dichloropropene
Concen: 0.395 ug/l
RT: 8.952 min Scan# 1290
Delta R.T. -0.024 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

Tgt Ion: 75 Resp: 601
Ion Ratio Lower Upper
75 100
77 0.0 25.1 37.7#

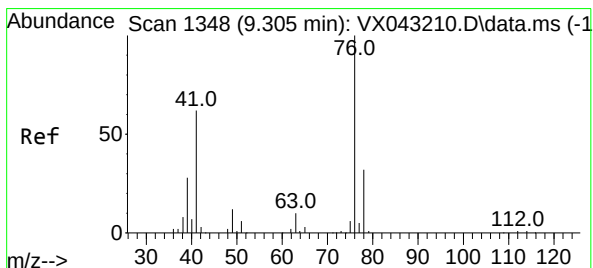
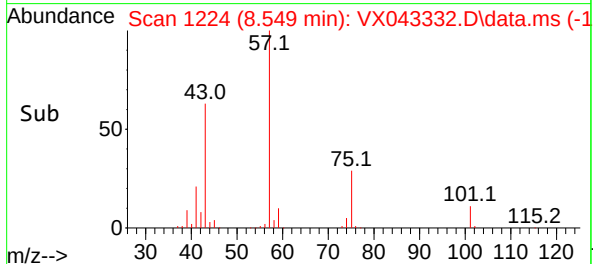
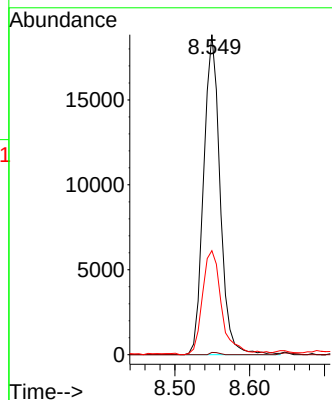
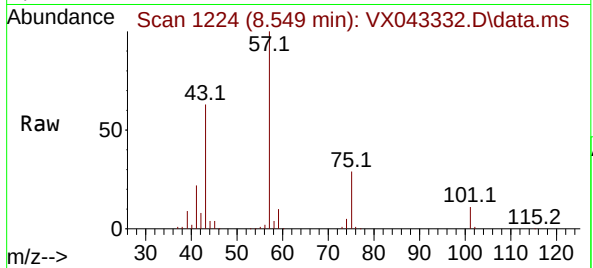




#54
 cis-1,3-Dichloropropene
 Concen: 17.673 ug/l
 RT: 8.549 min Scan# 1194
 Delta R.T. 0.183 min
 Lab File: VX043332.D
 Acq: 09 Oct 2024 12:26

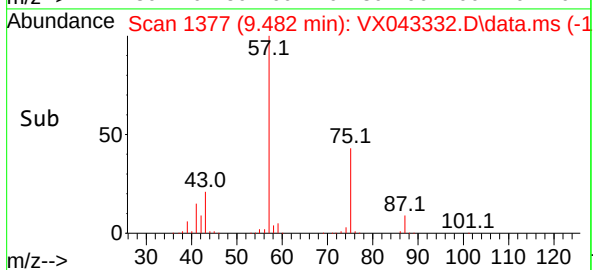
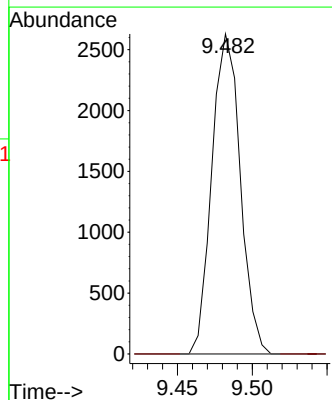
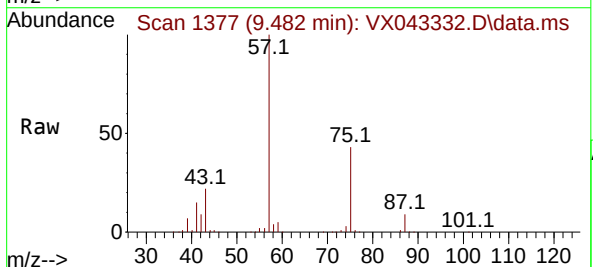
Instrument :
 MSVOA_X
 ClientSampleId :

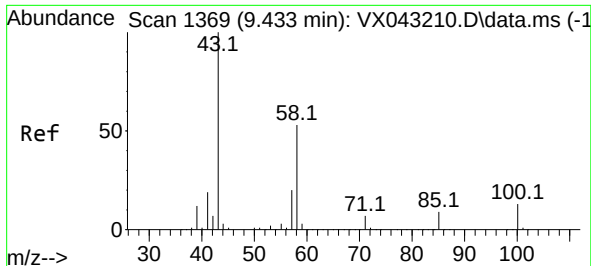
Tgt Ion: 75 Resp: 28821
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.0 39.0#
 39 32.5 45.8 68.8#



#57
 1,3-Dichloropropane
 Concen: 2.069 ug/l
 RT: 9.482 min Scan# 1377
 Delta R.T. 0.177 min
 Lab File: VX043332.D
 Acq: 09 Oct 2024 12:26

Tgt Ion: 76 Resp: 3474
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#

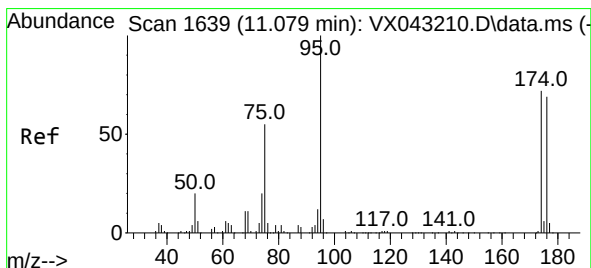
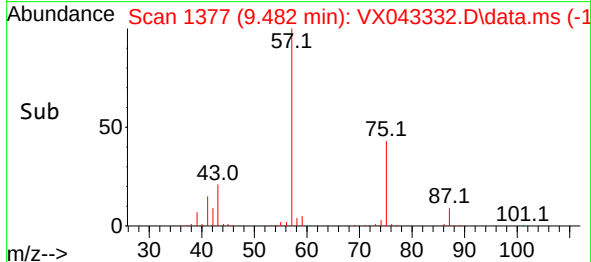
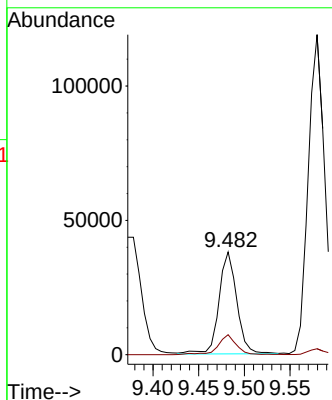
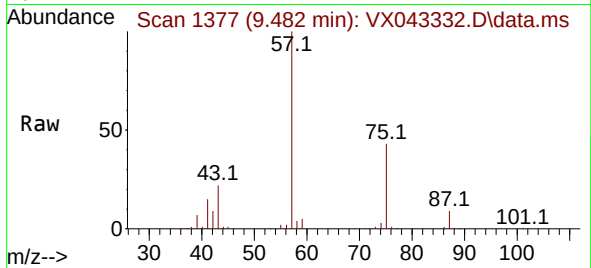




#59
2-Hexanone
Concen: 43.364 ug/l
RT: 9.482 min Scan# 11
Delta R.T. 0.049 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

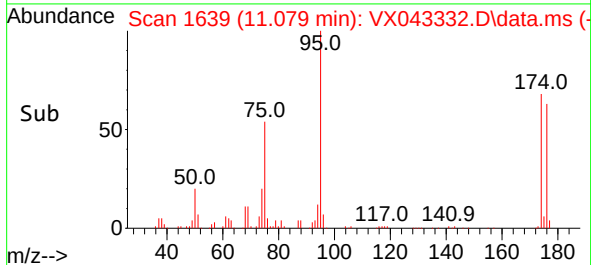
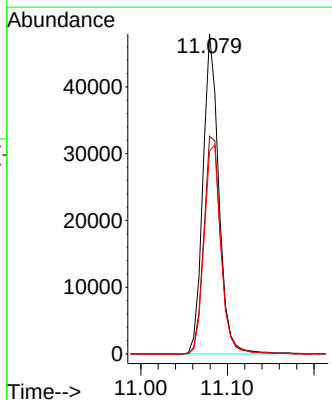
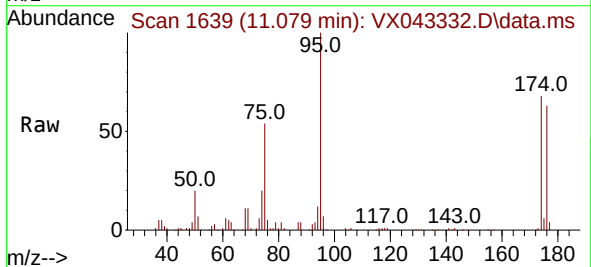
Instrument :
MSVOA_X
ClientSampleId :

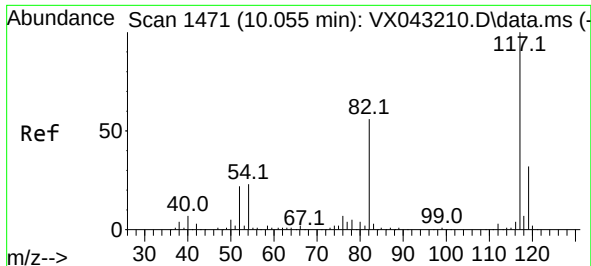
Tgt Ion: 43 Resp: 51570
Ion Ratio Lower Upper
43 100
58 20.3 26.1 78.3#



#62
4-Bromofluorobenzene
Concen: 46.964 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

Tgt Ion: 95 Resp: 61097
Ion Ratio Lower Upper
95 100
174 73.0 0.0 145.0
176 69.7 0.0 143.0

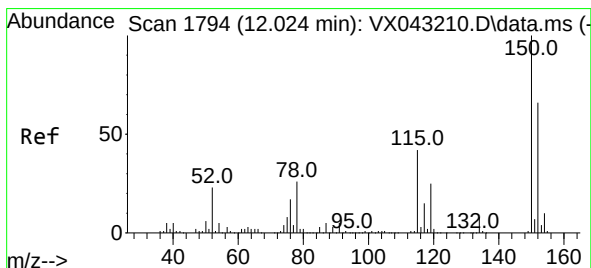
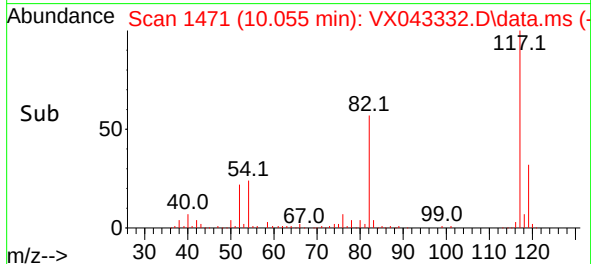
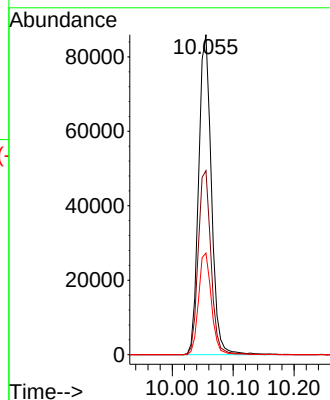
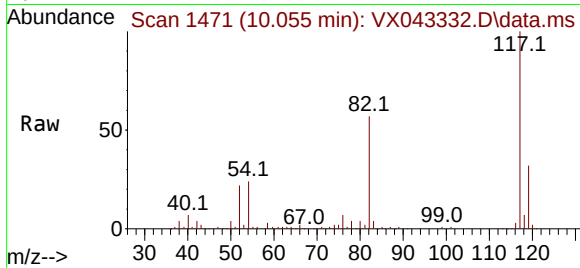




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

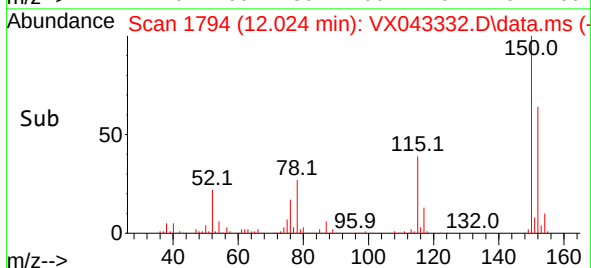
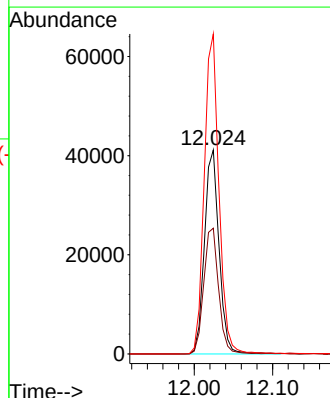
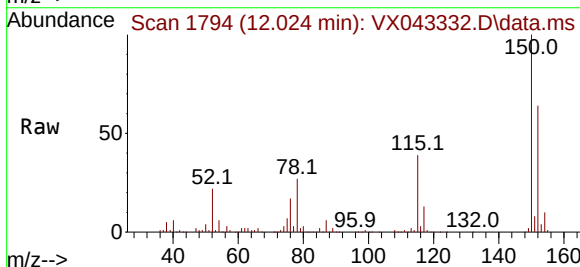
Instrument :
MSVOA_X
ClientSampleId :

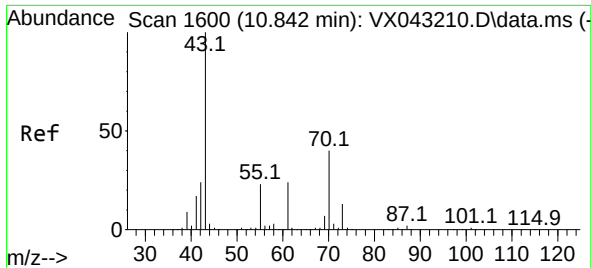
Tgt Ion:117 Resp: 125076
Ion Ratio Lower Upper
117 100
82 57.5 45.0 67.6
119 31.7 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

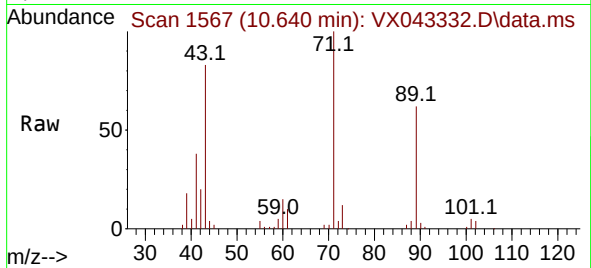
Tgt Ion:152 Resp: 53239
Ion Ratio Lower Upper
152 100
115 62.8 44.1 132.3
150 158.0 0.0 347.4



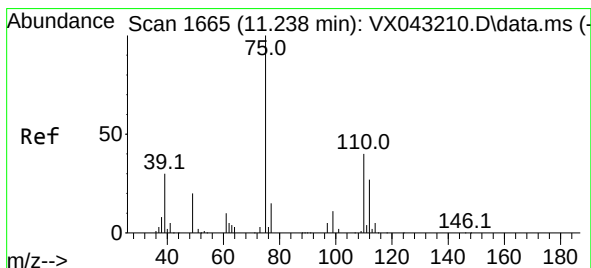
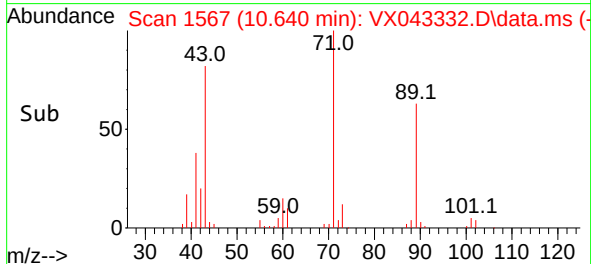
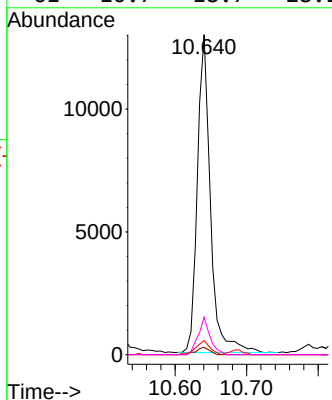


#74
N-amy1 acetate
Concen: 8.362 ug/l
RT: 10.640 min Scan# 1639
Delta R.T. -0.201 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

Instrument :
MSVOA_X
ClientSampleId :

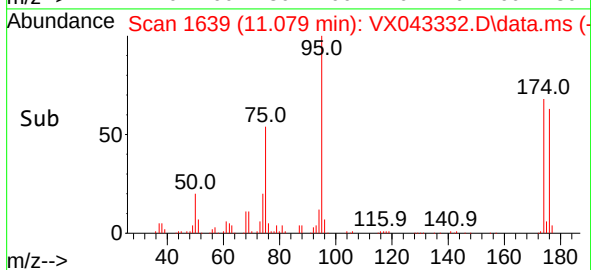
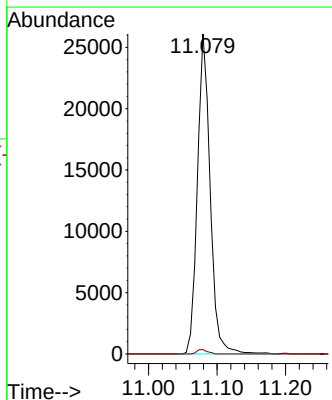
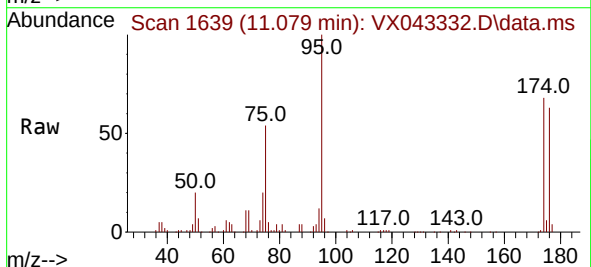


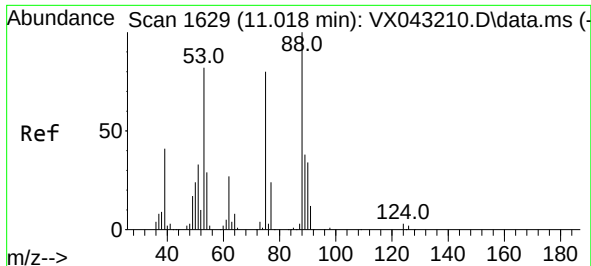
Tgt Ion:	43	Resp:	16431
Ion Ratio	100	Lower	Upper
70	2.3	33.1	49.7#
55	4.8	18.6	27.8#
61	10.7	18.7	28.1#



#76
1,2,3-Trichloropropane
Concen: 28.669 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

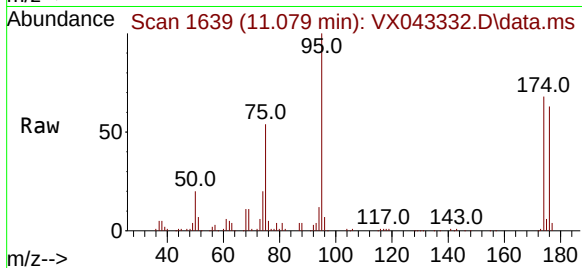
Tgt Ion:	75	Resp:	33855
Ion Ratio	100	Lower	Upper
77	1.2	22.0	66.0#



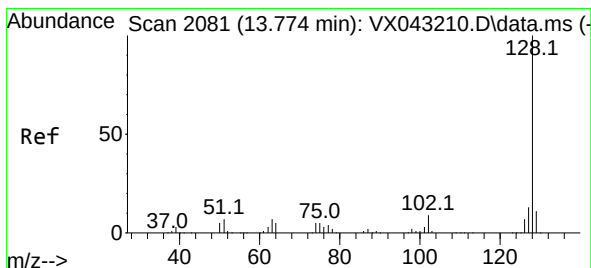
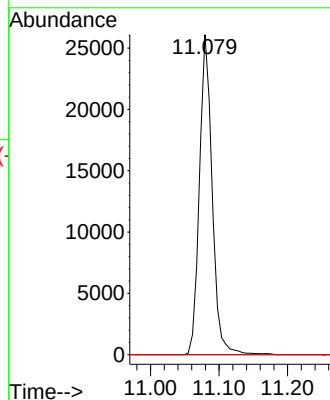
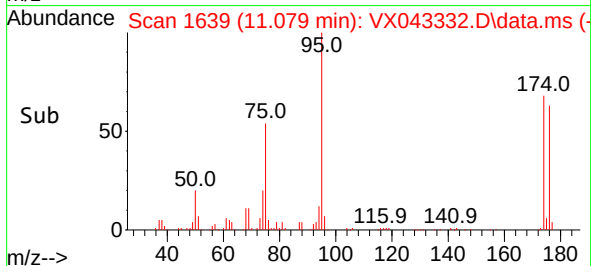


#81
trans-1,4-Dichloro-2-butene
Concen: 74.300 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion: 75 Resp: 33855
Ion Ratio Lower Upper
75 100
53 0.0 83.9 125.9#
89 0.0 38.6 58.0#



#95
Naphthalene
Concen: 0.226 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX043332.D
Acq: 09 Oct 2024 12:26

Tgt Ion: 128 Resp: 871
Ion Ratio Lower Upper
128 100
127 3.0 10.2 15.2#
129 0.0 8.6 13.0#

