

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051424\
 Data File : VX041514.D
 Acq On : 14 May 2024 12:53
 Operator : JC/MD
 Sample : PB160869TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB160869TB

Quant Time: May 15 00:58:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X043024W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 08 06:03:16 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	168005	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.757	114	248790	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	242027	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	119435	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	93037	50.869	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.740%			
35) Dibromofluoromethane	5.391	113	76181	45.185	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 90.380%			
50) Toluene-d8	8.647	98	293117	54.929	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 109.860%			
62) 4-Bromofluorobenzene	11.079	95	110212	53.353	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.700%			
Target Compounds						Qvalue
5) Bromomethane	1.599	94	590	0.691	ug/l	92
8) Diethyl Ether	2.136	74	219	0.265	ug/l #	1
11) Tert butyl alcohol	2.947	59	3873	10.580	ug/l #	78
13) Acrolein	2.239	56	182	0.627	ug/l #	74
16) Acetone	2.392	43	24832	27.348	ug/l	100
17) Carbon Disulfide	2.502	76	623	0.204	ug/l #	76
18) Methyl Acetate	2.709	43	2280	1.218	ug/l	93
20) Methylene Chloride	2.788	84	7692	4.844	ug/l	86
25) 2-Butanone	4.593	43	2424	2.048	ug/l #	87
29) Tetrahydrofuran	5.038	42	375	0.484	ug/l #	71
31) Cyclohexane	5.544	56	2898	1.313	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	10737	5.326	ug/l #	51
37) Ethyl Acetate	4.751	43	3003	1.194	ug/l #	87
38) Carbon Tetrachloride	5.550	117	14447	6.255	ug/l #	16
43) Isopropyl Acetate	6.342	43	128930	34.089	ug/l	99
48) Methyl methacrylate	7.799	41	121094	69.845	ug/l #	48
49) 1,4-Dioxane	7.787	88	94	2.508	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	102805	45.299	ug/l #	50
52) Toluene	8.726	92	1015	0.267	ug/l	100
53) t-1,3-Dichloropropene	8.958	75	1174	2.929	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	45077	20.815	ug/l #	57
57) 1,3-Dichloropropane	9.482	76	6043	2.473	ug/l #	42
59) 2-Hexanone	9.482	43	87722	48.338	ug/l #	52
68) m/p-Xylenes	10.305	106	675	0.208	ug/l	96
74) N-amyl acetate	10.640	43	28236	8.865	ug/l #	52
76) 1,2,3-Trichloropropane	11.079	75	56332	28.941	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	56332	78.833	ug/l #	5
93) 1,2,4-Trichlorobenzene	13.597	180	766	0.277	ug/l	94
95) Naphthalene	13.780	128	2824	0.345	ug/l	97
96) 1,2,3-Trichlorobenzene	13.963	180	745	0.264	ug/l	95

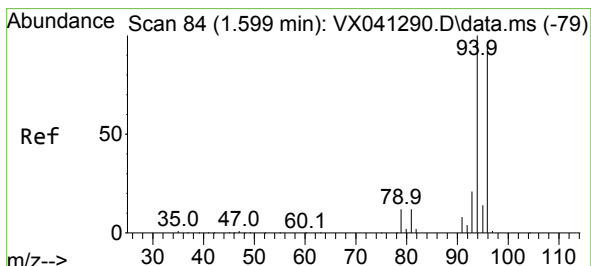
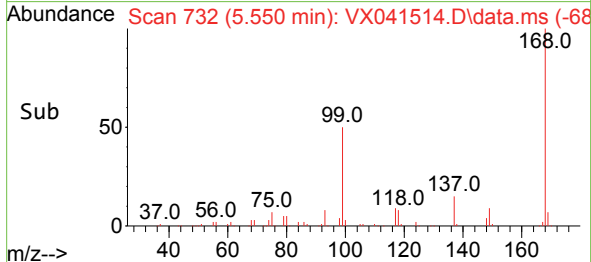
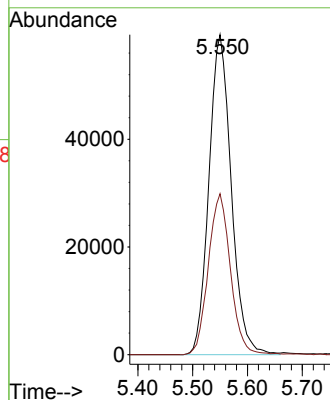
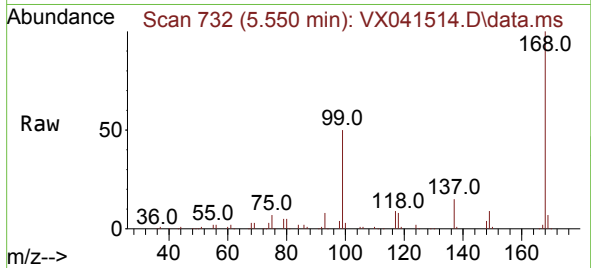
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX041514.D
Acq: 14 May 2024 12:53

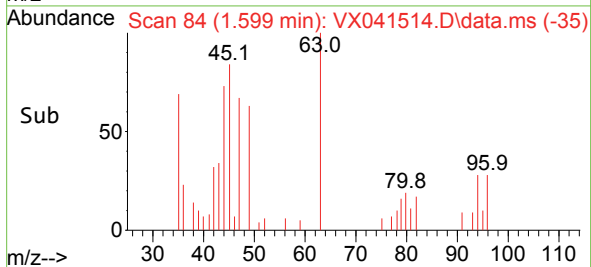
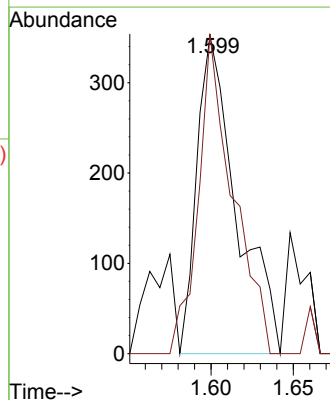
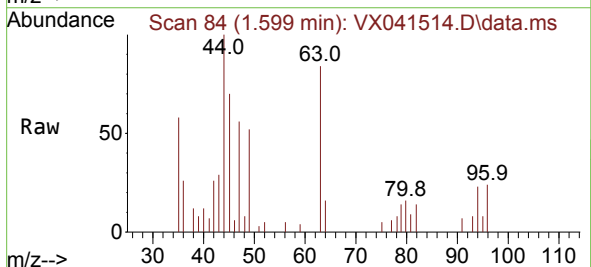
Instrument :
MSVOA_X
ClientSampleId :
PB160869TB

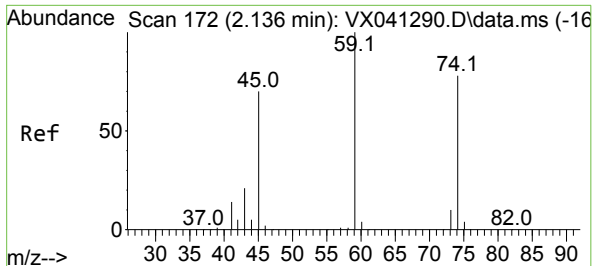
Tgt Ion:168 Resp: 168005
Ion Ratio Lower Upper
168 100
99 50.3 56.6 85.0#



#5
Bromomethane
Concen: 0.691 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.000 min
Lab File: VX041514.D
Acq: 14 May 2024 12:53

Tgt Ion: 94 Resp: 590
Ion Ratio Lower Upper
94 100
96 100.6 74.6 111.8





#8

Diethyl Ether

Concen: 0.265 ug/l

RT: 2.136 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX041514.D

Acq: 14 May 2024 12:53

Instrument :

MSVOA_X

ClientSampleId :

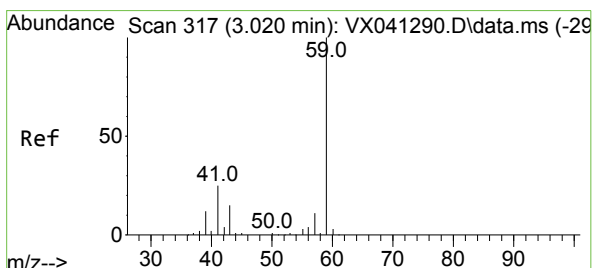
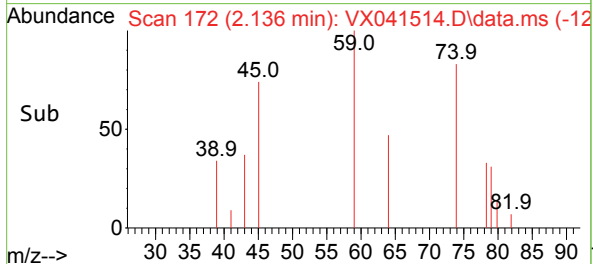
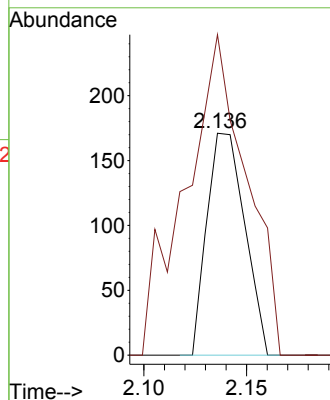
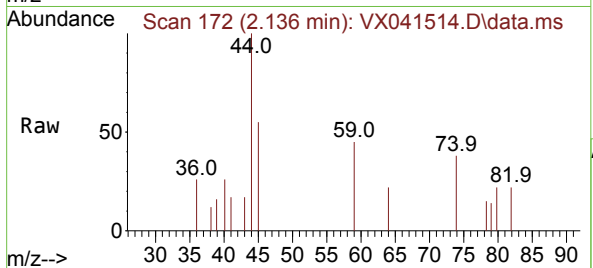
PB160869TB

Tgt Ion: 74 Resp: 219

Ion Ratio Lower Upper

74 100

45 232.9 53.3 159.8#



#11

Tert butyl alcohol

Concen: 10.580 ug/l

RT: 2.947 min Scan# 305

Delta R.T. -0.073 min

Lab File: VX041514.D

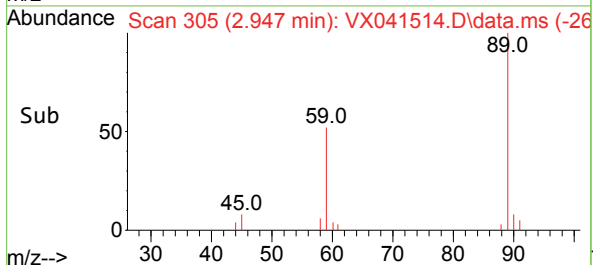
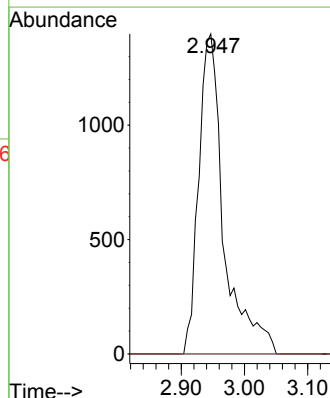
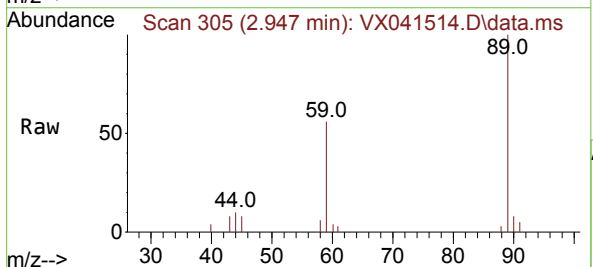
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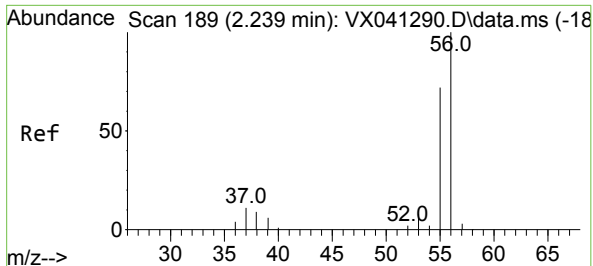
Tgt Ion: 59 Resp: 3873

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#





#13

Acrolein

Concen: 0.627 ug/l

RT: 2.239 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX041514.D

Acq: 14 May 2024 12:53

Instrument :

MSVOA_X

ClientSampleId :

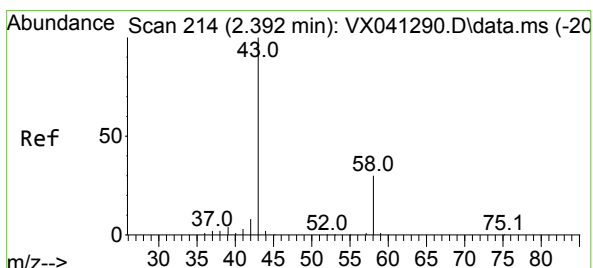
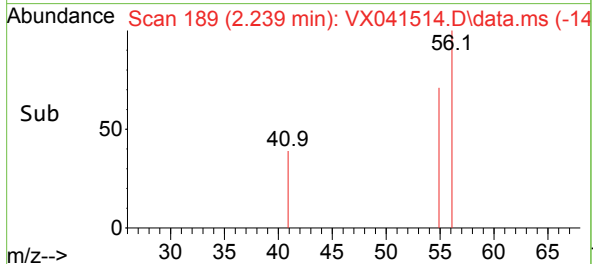
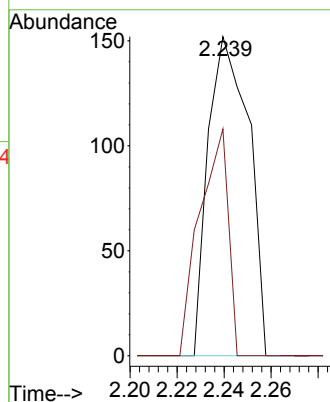
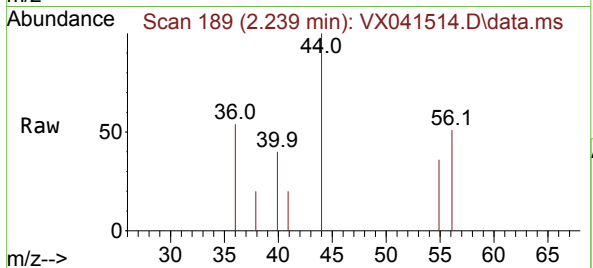
PB160869TB

Tgt Ion: 56 Resp: 182

Ion Ratio Lower Upper

56 100

55 50.0 57.1 85.7#



#16

Acetone

Concen: 27.348 ug/l

RT: 2.392 min Scan# 214

Delta R.T. -0.000 min

Lab File: VX041514.D

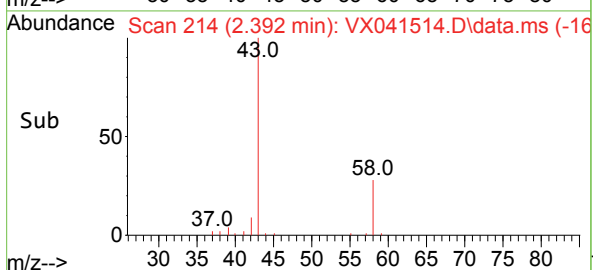
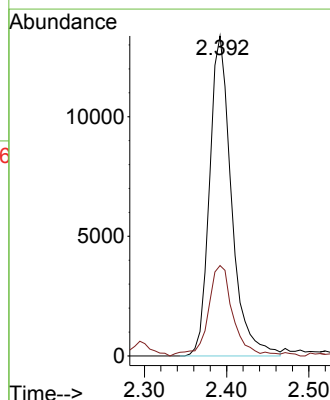
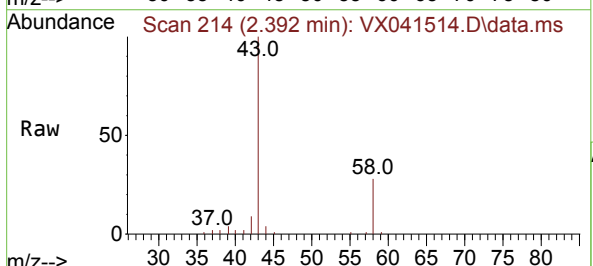
Acq: 14 May 2024 12:53

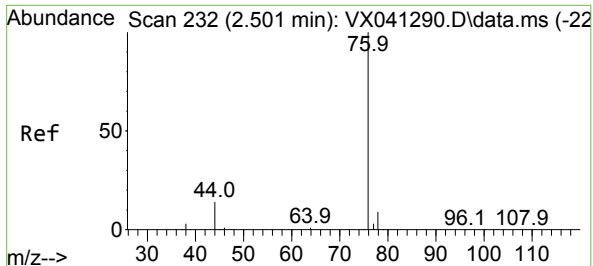
Tgt Ion: 43 Resp: 24832

Ion Ratio Lower Upper

43 100

58 27.6 21.9 32.9

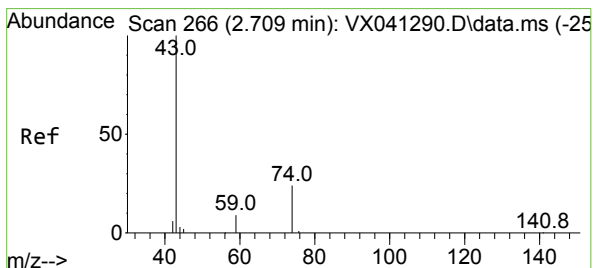
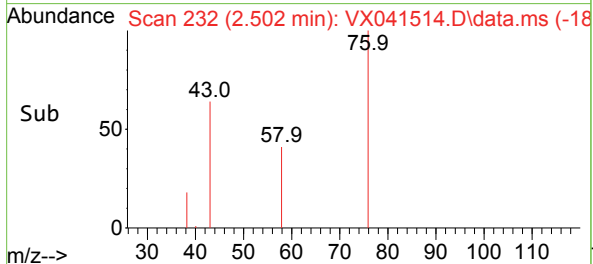
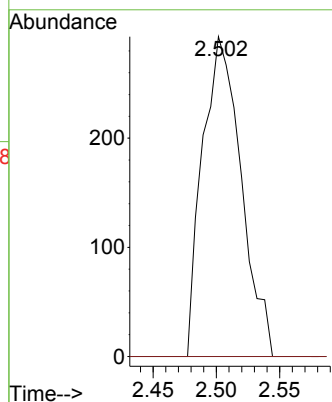
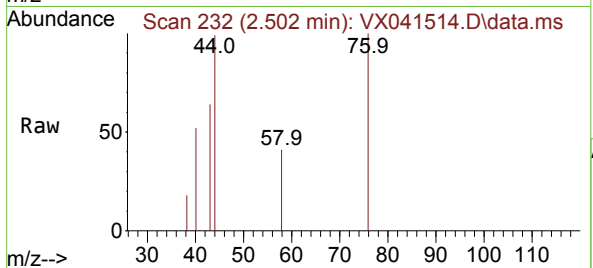




#17
Carbon Disulfide
Concen: 0.204 ug/l
RT: 2.502 min Scan# 21
Delta R.T. 0.001 min
Lab File: VX041514.D
Acq: 14 May 2024 12:53

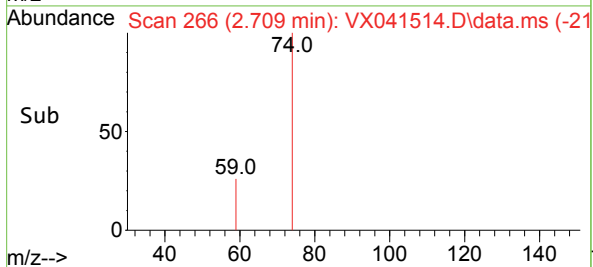
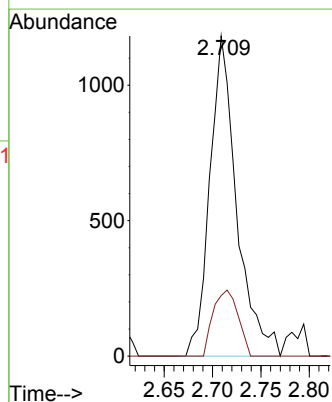
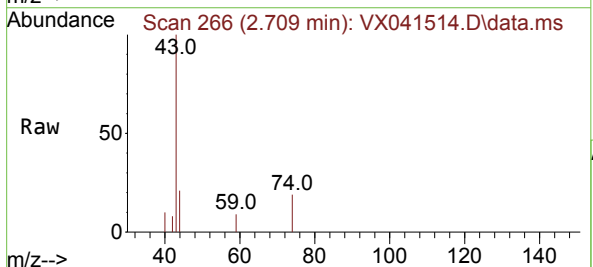
Instrument :
MSVOA_X
ClientSampleId :
PB160869TB

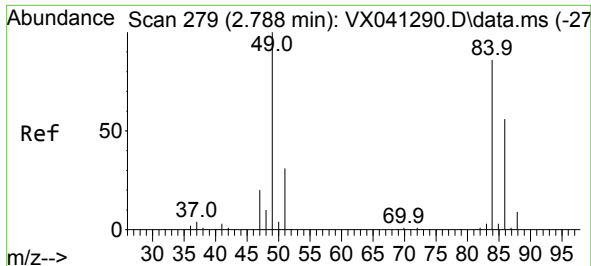
Tgt Ion: 76 Resp: 623
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



#18
Methyl Acetate
Concen: 1.218 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX041514.D
Acq: 14 May 2024 12:53

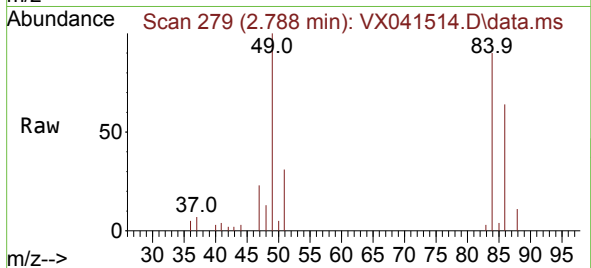
Tgt Ion: 43 Resp: 2280
Ion Ratio Lower Upper
43 100
74 19.1 17.8 26.8



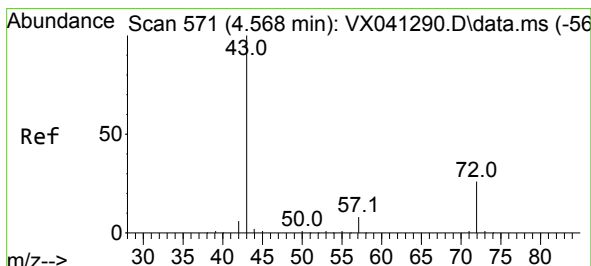
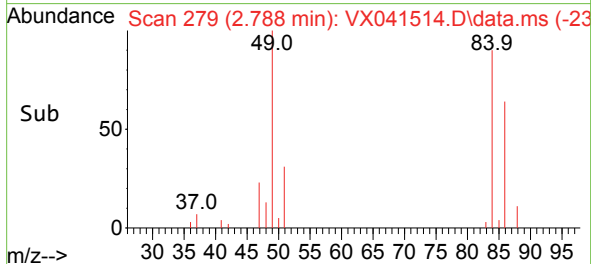
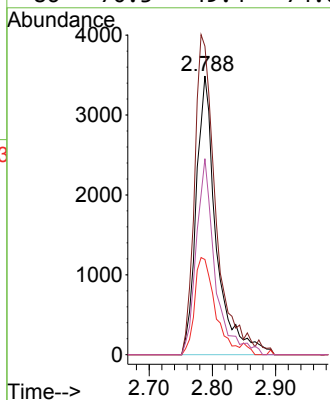


#20
Methylene Chloride
Concen: 4.844 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX041514.D
Acq: 14 May 2024 12:53

Instrument :
MSVOA_X
ClientSampleId :
PB160869TB

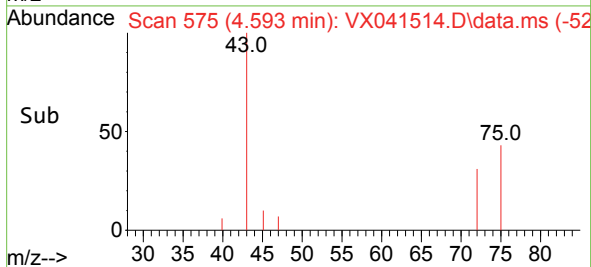
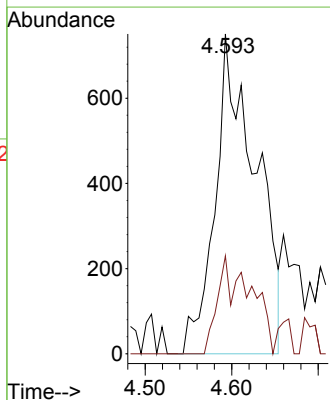
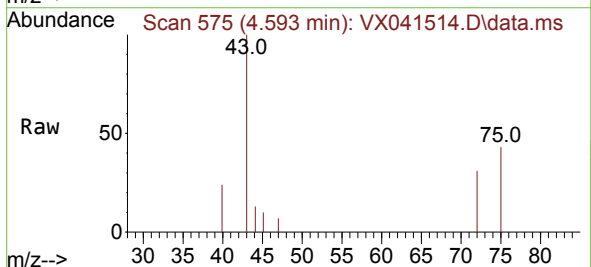


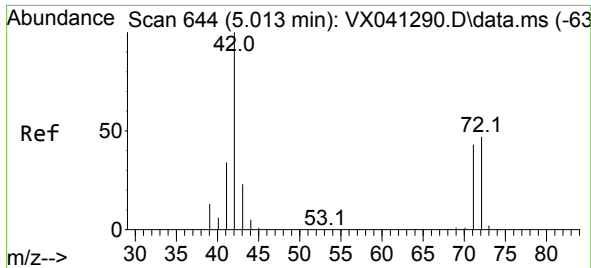
Tgt Ion:	84	Resp:	7692
Ion	Ratio	Lower	Upper
84	100		
49	110.7	103.6	155.4
51	34.1	33.8	50.6
86	70.3	49.4	74.0



#25
2-Butanone
Concen: 2.048 ug/l
RT: 4.593 min Scan# 575
Delta R.T. 0.025 min
Lab File: VX041514.D
Acq: 14 May 2024 12:53

Tgt Ion:	43	Resp:	2424
Ion	Ratio	Lower	Upper
43	100		
72	30.6	19.4	29.2#





#29

Tetrahydrofuran

Concen: 0.484 ug/l

RT: 5.038 min Scan# 644

Delta R.T. 0.025 min

Lab File: VX041514.D

Acq: 14 May 2024 12:53

Instrument :

MSVOA_X

ClientSampleId :

PB160869TB

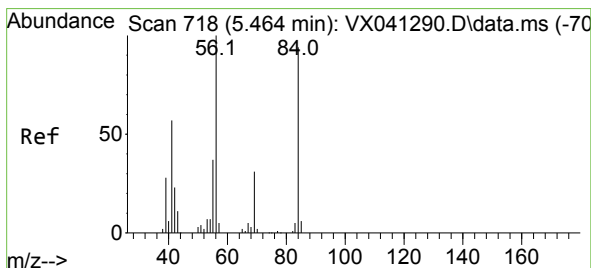
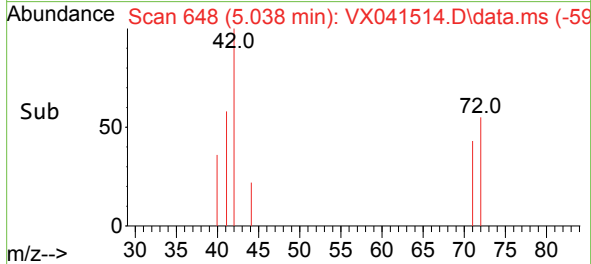
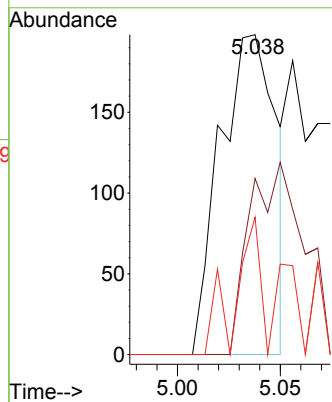
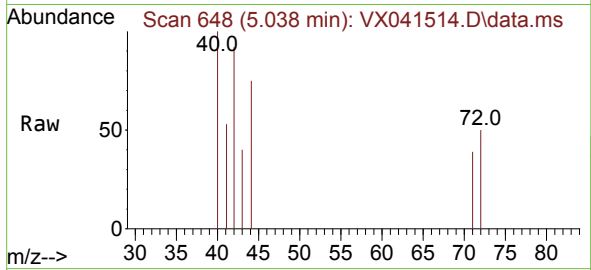
Tgt Ion: 42 Resp: 375

Ion Ratio Lower Upper

42 100

72 58.1 34.2 51.4#

71 18.9 32.2 48.2#



#31

Cyclohexane

Concen: 1.313 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.079 min

Lab File: VX041514.D

Acq: 14 May 2024 12:53

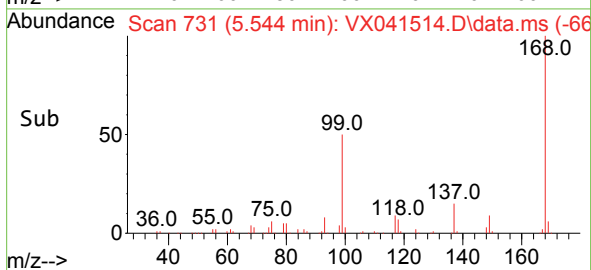
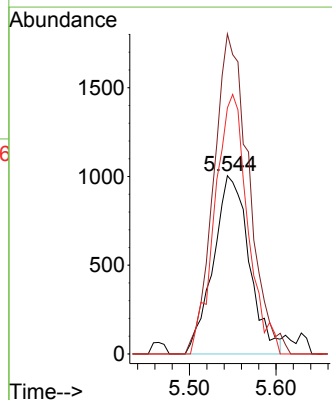
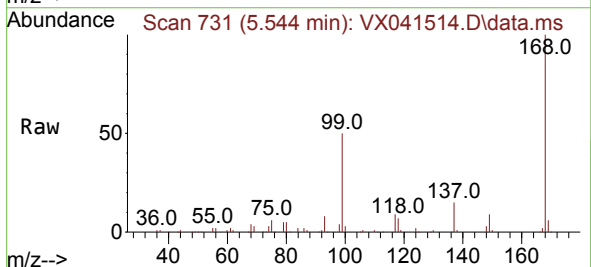
Tgt Ion: 56 Resp: 2898

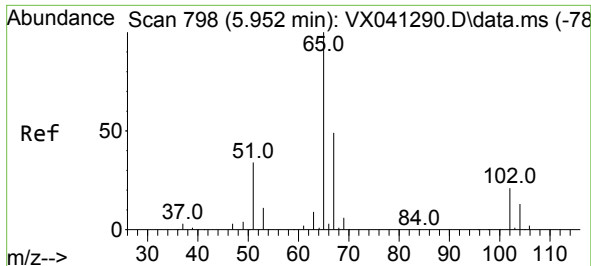
Ion Ratio Lower Upper

56 100

69 179.6 23.4 35.2#

84 138.1 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 50.869 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX041514.D

Acq: 14 May 2024 12:53

Instrument :

MSVOA_X

ClientSampleId :

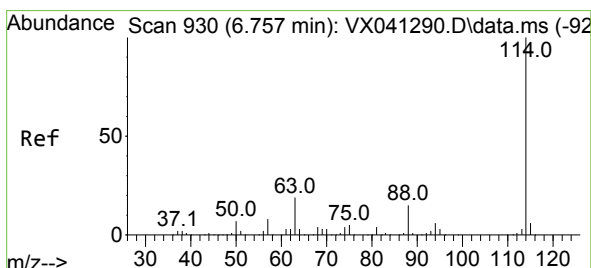
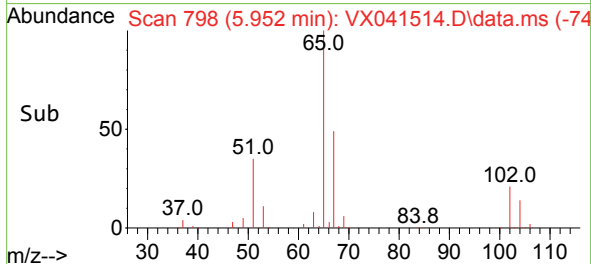
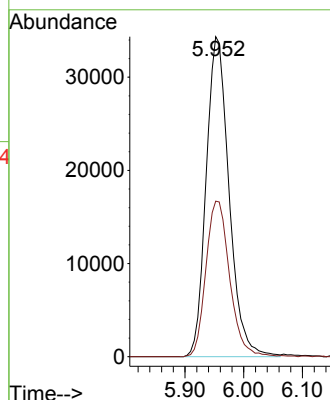
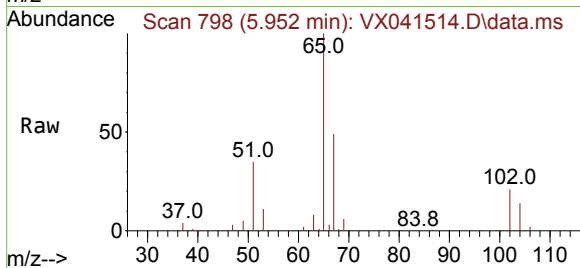
PB160869TB

Tgt Ion: 65 Resp: 93037

Ion Ratio Lower Upper

65 100

67 50.5 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX041514.D

Acq: 14 May 2024 12:53

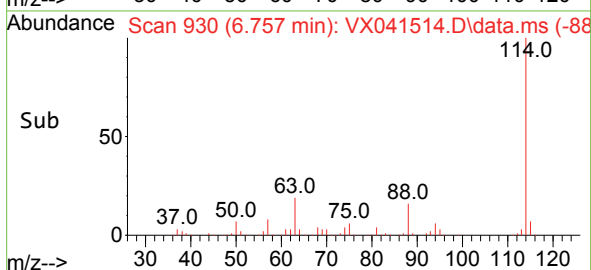
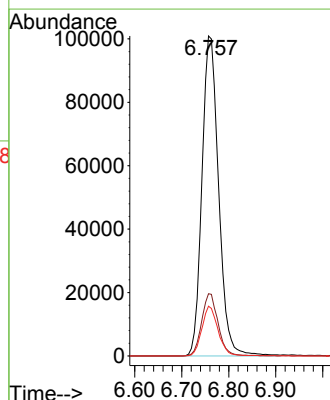
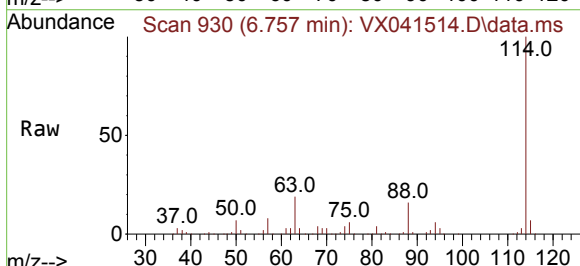
Tgt Ion: 114 Resp: 248790

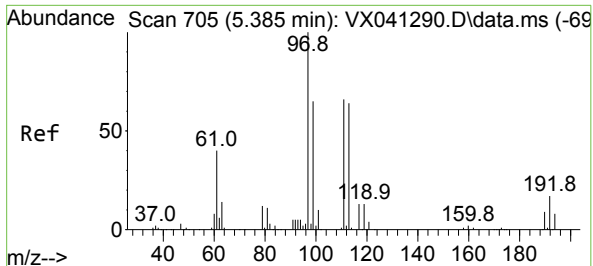
Ion Ratio Lower Upper

114 100

63 19.5 0.0 45.0

88 15.5 0.0 36.6

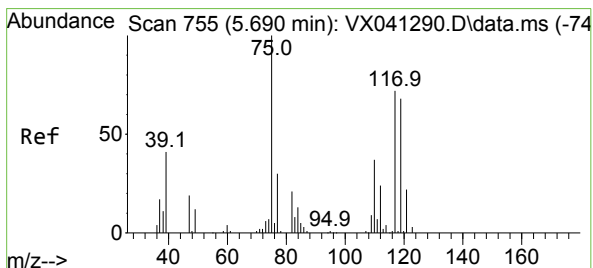
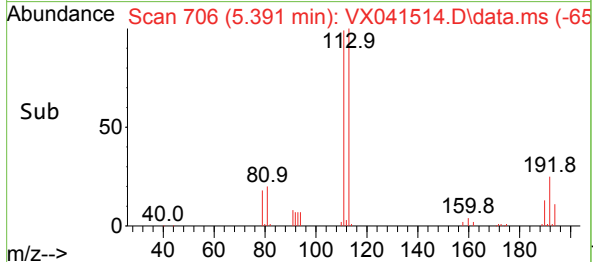
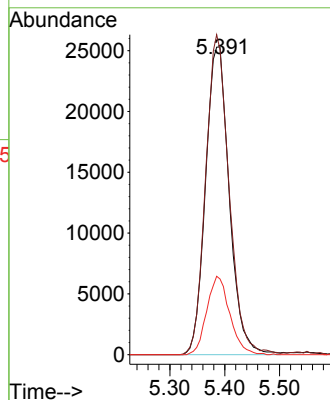
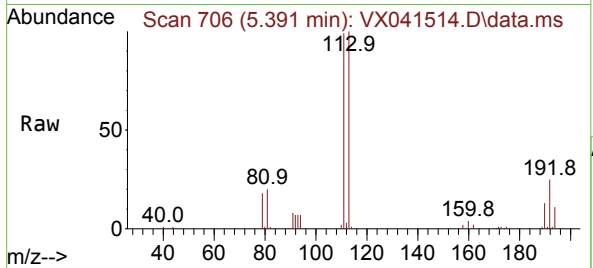




#35
Dibromofluoromethane
Concen: 45.185 ug/l
RT: 5.391 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX041514.D
Acq: 14 May 2024 12:53

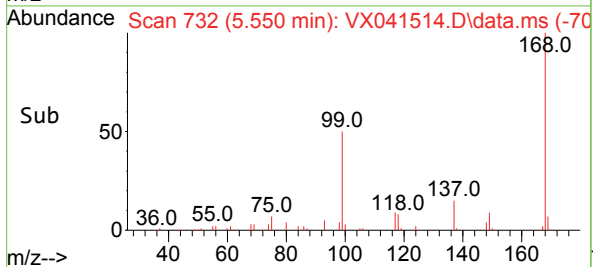
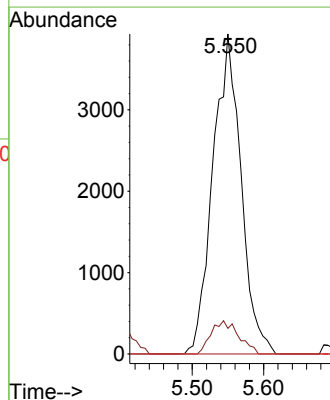
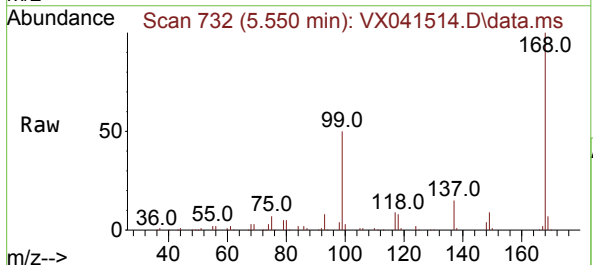
Instrument :
MSVOA_X
ClientSampleId :
PB160869TB

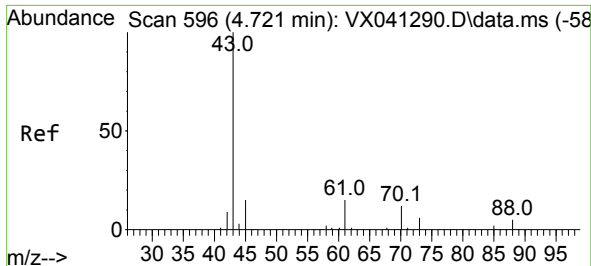
Tgt Ion:113 Resp: 76181
Ion Ratio Lower Upper
113 100
111 102.2 82.9 124.3
192 24.6 13.3 19.9#



#36
1,1-Dichloropropene
Concen: 5.326 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.140 min
Lab File: VX041514.D
Acq: 14 May 2024 12:53

Tgt Ion: 75 Resp: 10737
Ion Ratio Lower Upper
75 100
110 10.2 17.0 50.9#
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.194 ug/l

RT: 4.751 min Scan# 601

Delta R.T. 0.031 min

Lab File: VX041514.D

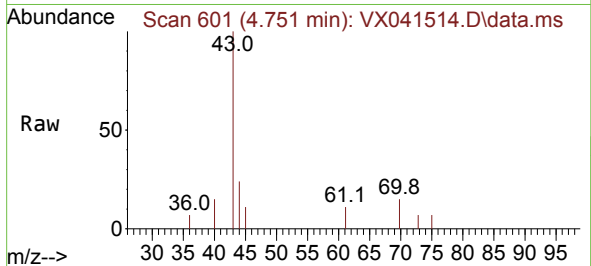
Acq: 14 May 2024 12:53

Instrument :

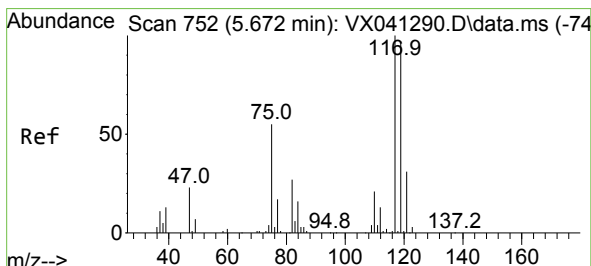
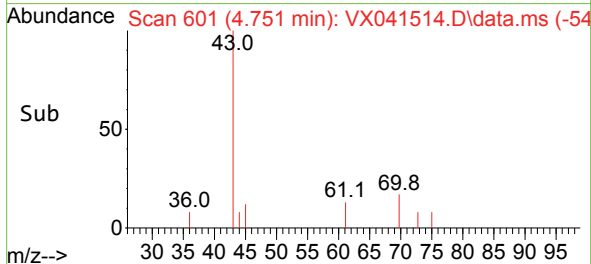
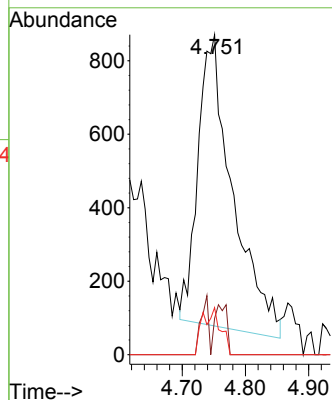
MSVOA_X

ClientSampleId :

PB160869TB



Tgt Ion:	43	Resp:	3003
Ion	Ratio	Lower	Upper
43	100		
61	6.0	10.6	16.0#
70	8.5	8.3	12.5



#38

Carbon Tetrachloride

Concen: 6.255 ug/l

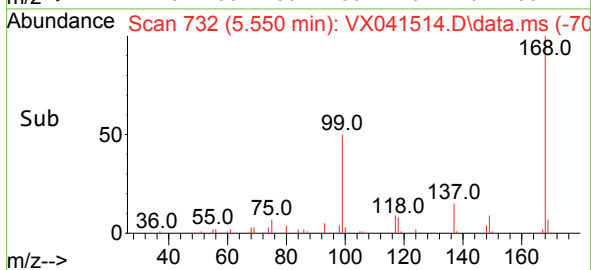
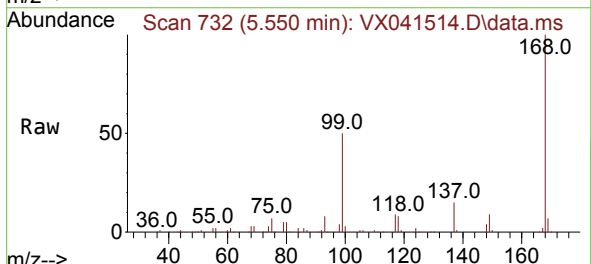
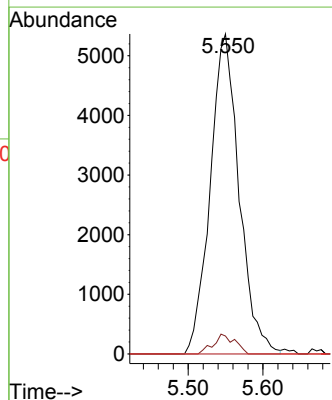
RT: 5.550 min Scan# 732

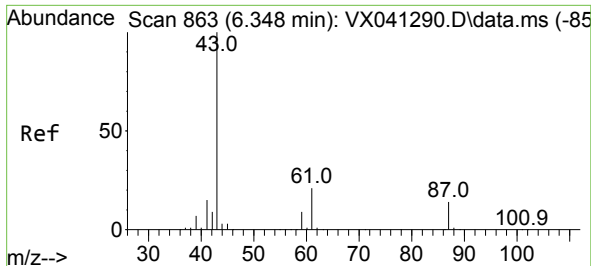
Delta R.T. -0.122 min

Lab File: VX041514.D

Acq: 14 May 2024 12:53

Tgt Ion:	117	Resp:	14447
Ion	Ratio	Lower	Upper
117	100		
119	5.6	78.2	117.2#
121	0.0	24.4	36.6#

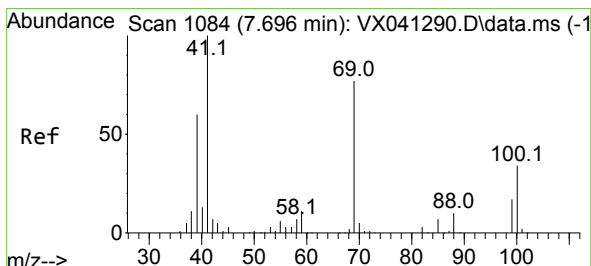
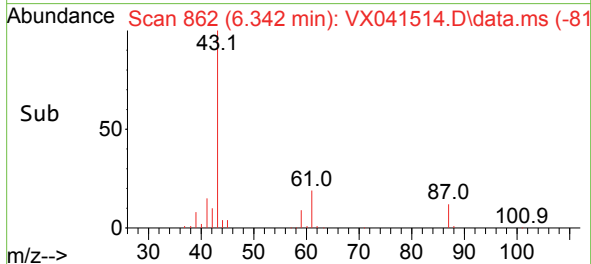
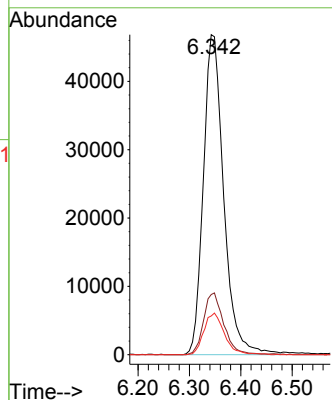
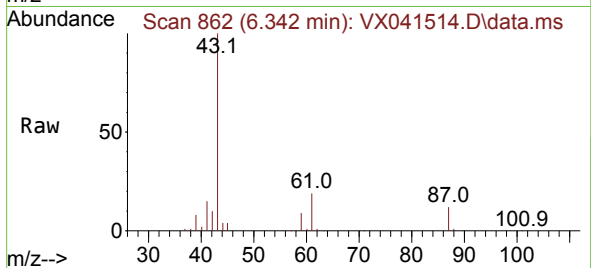




#43
Isopropyl Acetate
Concen: 34.089 ug/l
RT: 6.342 min Scan# 81
Delta R.T. -0.006 min
Lab File: VX041514.D
Acq: 14 May 2024 12:53

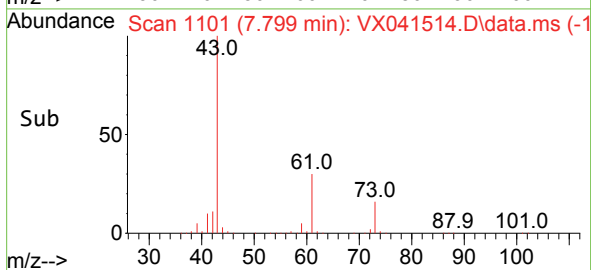
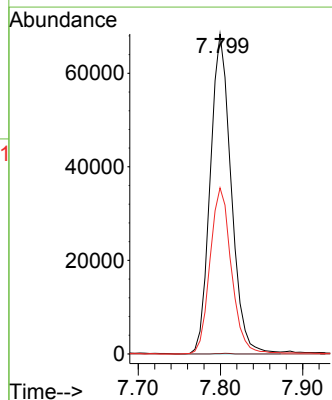
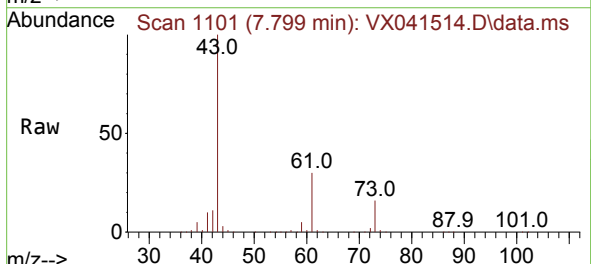
Instrument :
MSVOA_X
ClientSampleId :
PB160869TB

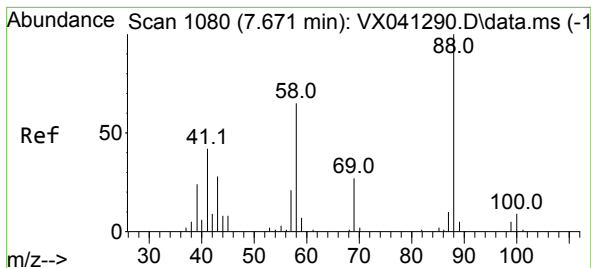
Tgt Ion: 43 Resp: 128930
Ion Ratio Lower Upper
43 100
61 19.1 15.2 22.8
87 13.2 9.8 14.6



#48
Methyl methacrylate
Concen: 69.845 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.104 min
Lab File: VX041514.D
Acq: 14 May 2024 12:53

Tgt Ion: 41 Resp: 121094
Ion Ratio Lower Upper
41 100
69 0.1 59.2 88.8#
39 53.6 47.7 71.5





#49

1,4-Dioxane

Concen: 2.508 ug/l

RT: 7.787 min Scan# 1099

Delta R.T. 0.116 min

Lab File: VX041514.D

Acq: 14 May 2024 12:53

Instrument :

MSVOA_X

ClientSampleId :

PB160869TB

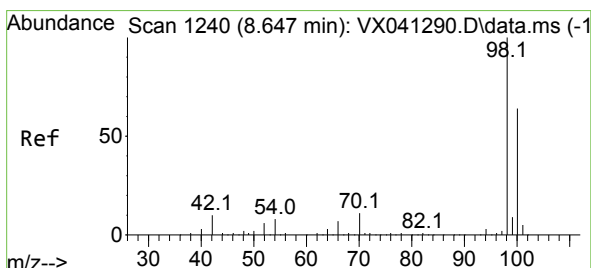
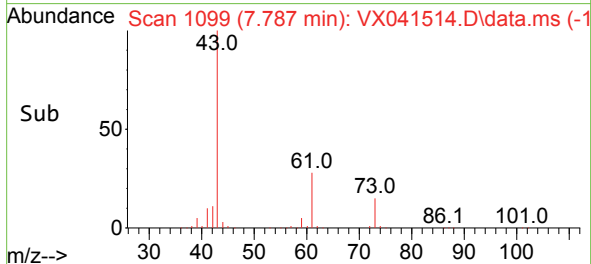
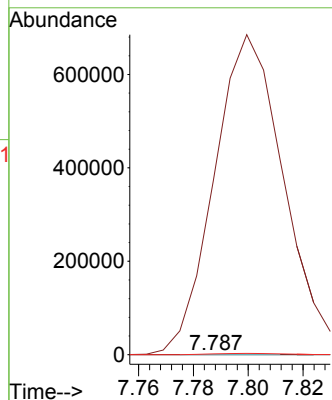
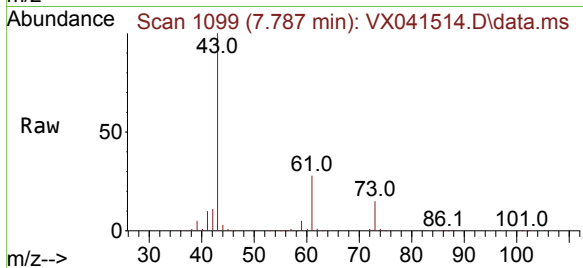
Tgt Ion: 88 Resp: 94

Ion Ratio Lower Upper

88 100

43 1317214.9 0.0 0.0#

58 5483.0 60.1 90.1#



#50

Toluene-d8

Concen: 54.929 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX041514.D

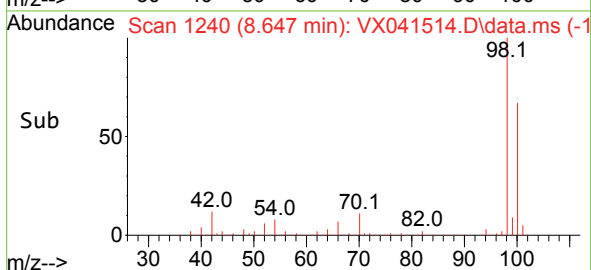
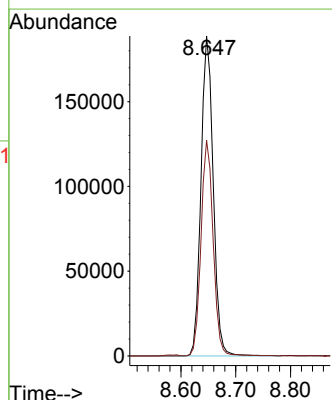
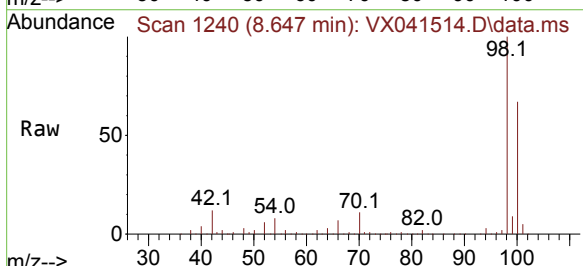
Acq: 14 May 2024 12:53

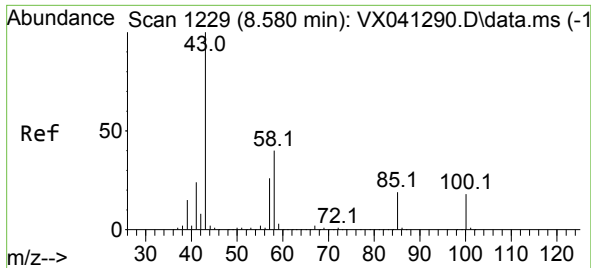
Tgt Ion: 98 Resp: 293117

Ion Ratio Lower Upper

98 100

100 66.6 53.1 79.7

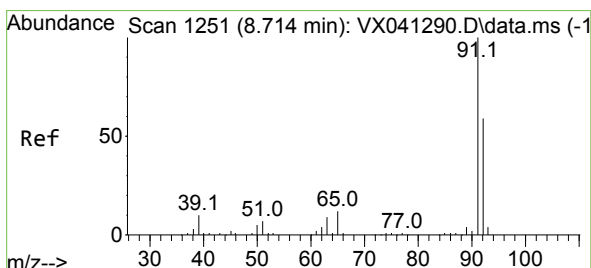
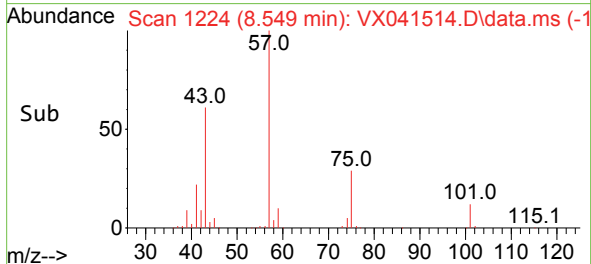
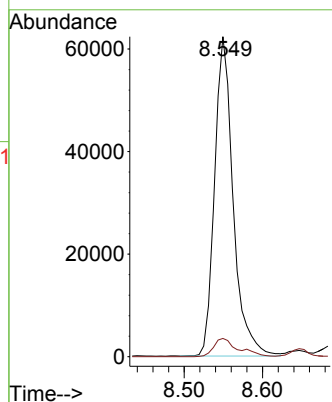
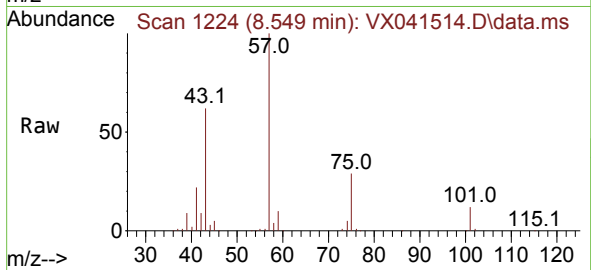




#51
4-Methyl-2-Pentanone
Concen: 45.299 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.030 min
Lab File: VX041514.D
Acq: 14 May 2024 12:53

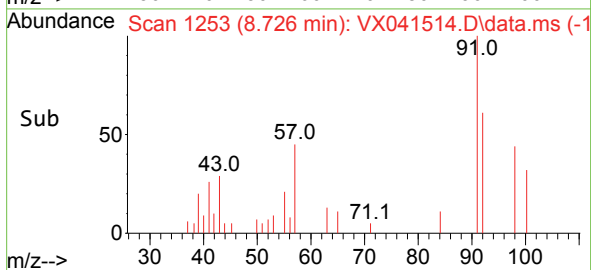
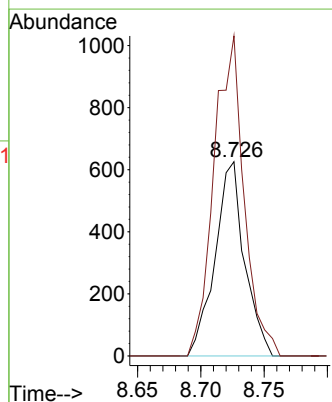
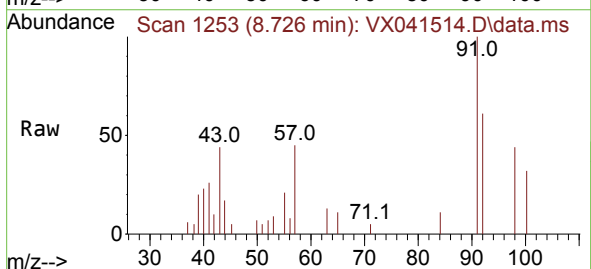
Instrument :
MSVOA_X
ClientSampleId :
PB160869TB

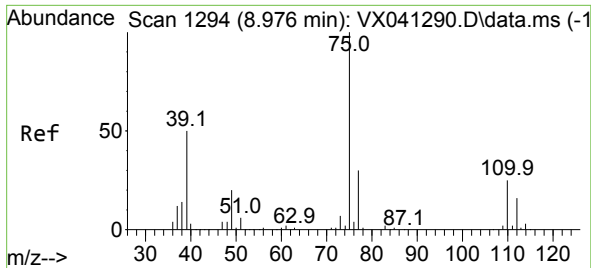
Tgt Ion: 43 Resp: 102805
Ion Ratio Lower Upper
43 100
58 7.6 30.4 45.6#



#52
Toluene
Concen: 0.267 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.012 min
Lab File: VX041514.D
Acq: 14 May 2024 12:53

Tgt Ion: 92 Resp: 1015
Ion Ratio Lower Upper
92 100
91 168.1 134.2 201.2

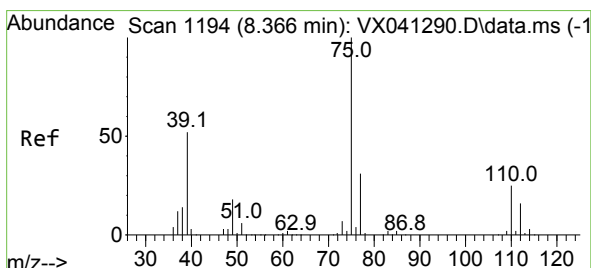
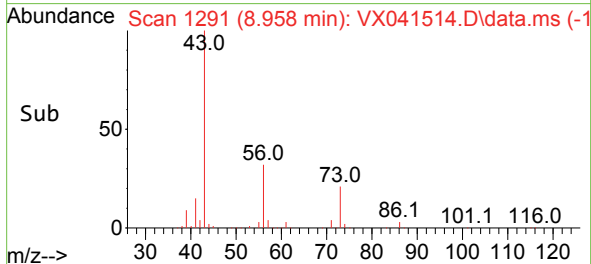
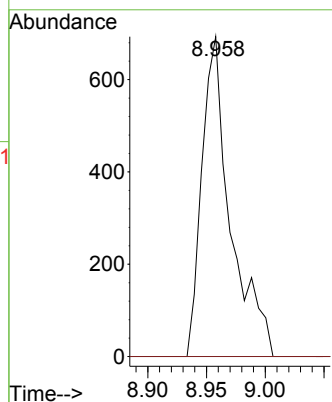
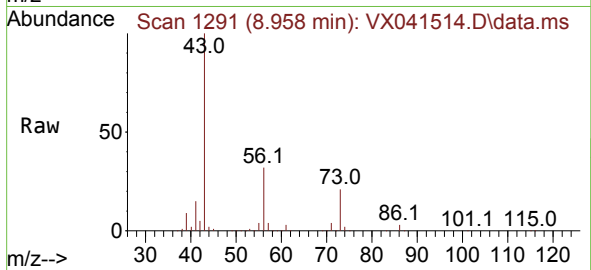




#53
 t-1,3-Dichloropropene
 Concen: 2.929 ug/l
 RT: 8.958 min Scan# 1174
 Delta R.T. -0.018 min
 Lab File: VX041514.D
 Acq: 14 May 2024 12:53

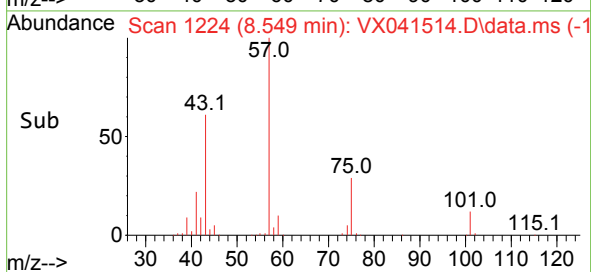
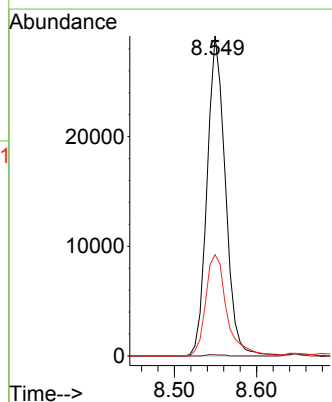
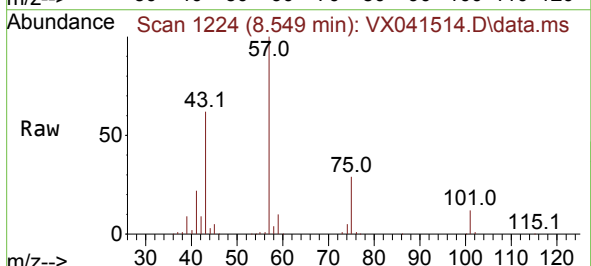
Instrument :
 MSVOA_X
 ClientSampleId :
 PB160869TB

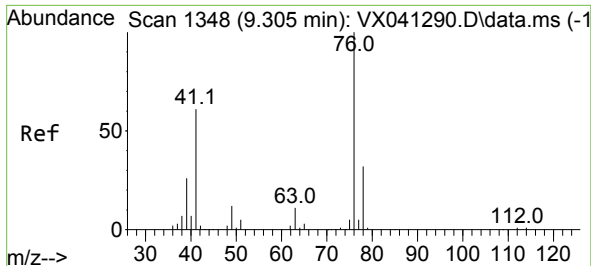
Tgt Ion: 75 Resp: 1174
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.7 38.5#



#54
 cis-1,3-Dichloropropene
 Concen: 20.815 ug/l
 RT: 8.549 min Scan# 1224
 Delta R.T. 0.183 min
 Lab File: VX041514.D
 Acq: 14 May 2024 12:53

Tgt Ion: 75 Resp: 45077
 Ion Ratio Lower Upper
 75 100
 77 0.3 25.3 37.9#
 39 31.6 46.7 70.1#





#57

1,3-Dichloropropane

Concen: 2.473 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX041514.D

Acq: 14 May 2024 12:53

Instrument :

MSVOA_X

ClientSampleId :

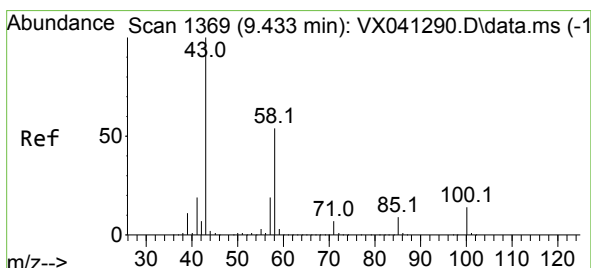
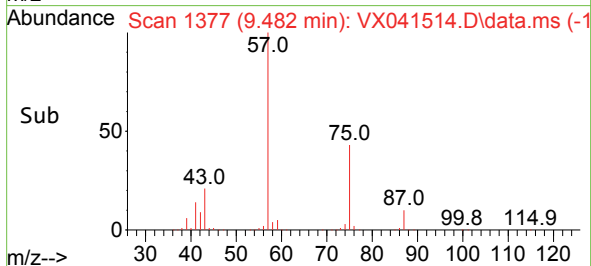
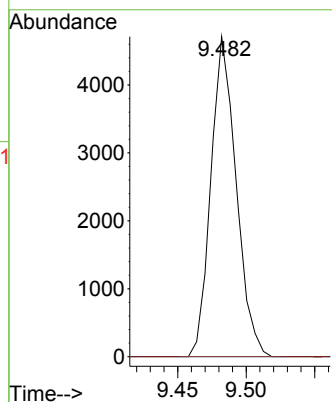
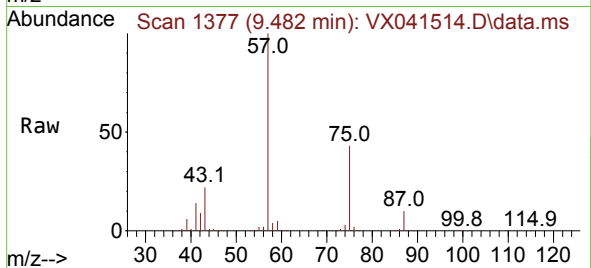
PB160869TB

Tgt Ion: 76 Resp: 6043

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 48.338 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.049 min

Lab File: VX041514.D

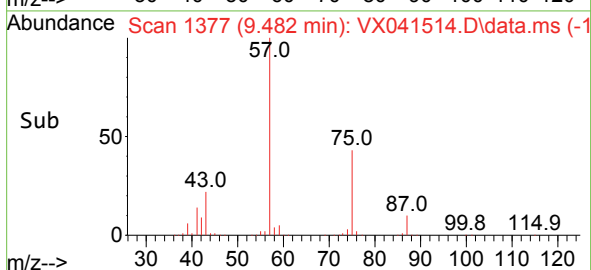
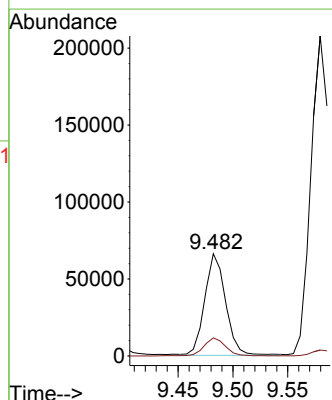
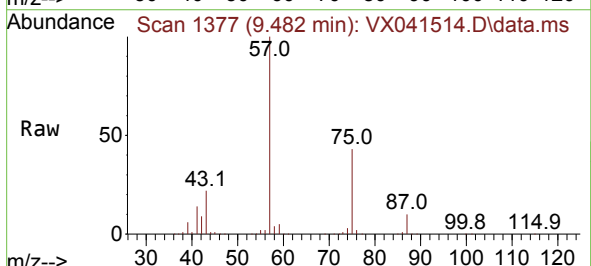
Acq: 14 May 2024 12:53

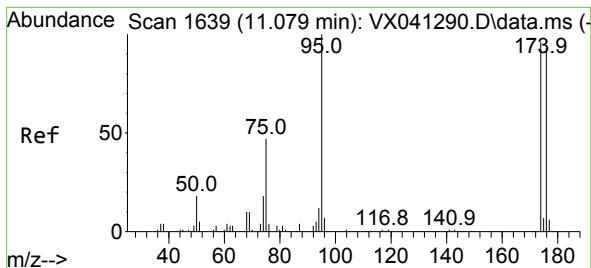
Tgt Ion: 43 Resp: 87722

Ion Ratio Lower Upper

43 100

58 18.6 26.2 78.5#

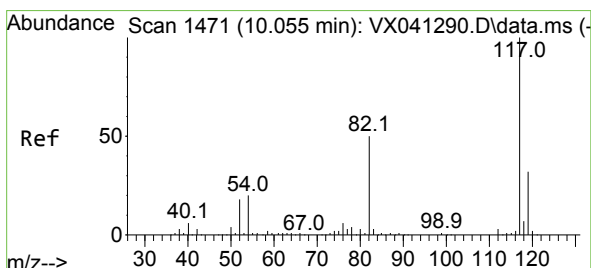
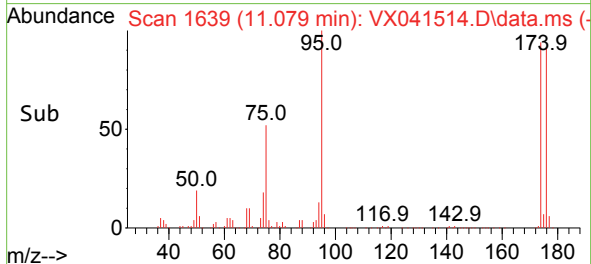
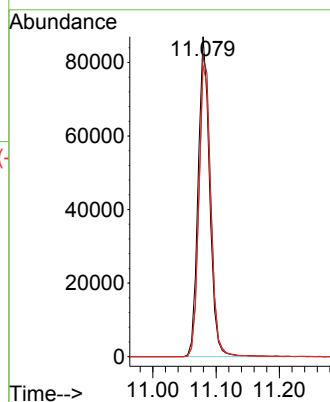
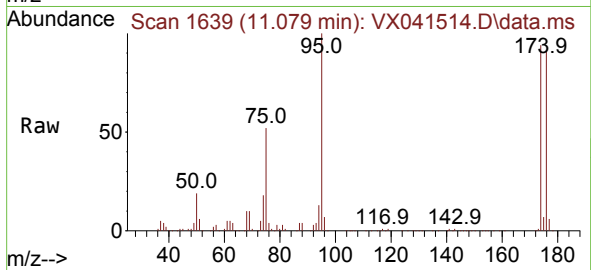




#62
4-Bromofluorobenzene
Concen: 53.353 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX041514.D
Acq: 14 May 2024 12:53

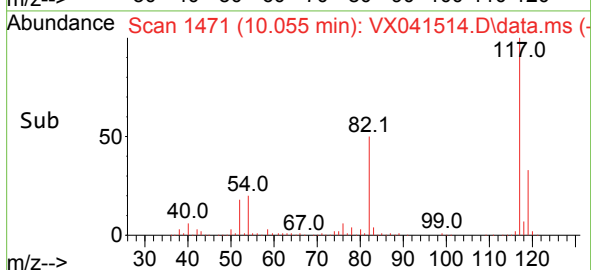
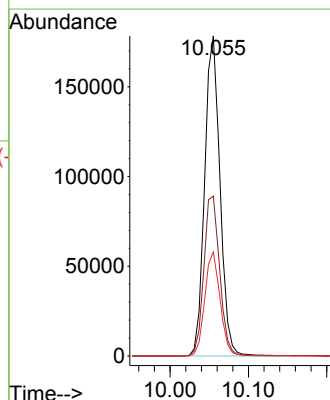
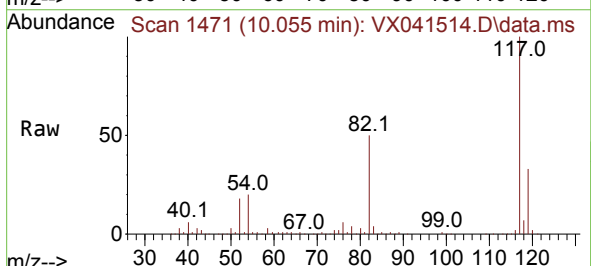
Instrument :
MSVOA_X
ClientSampleId :
PB160869TB

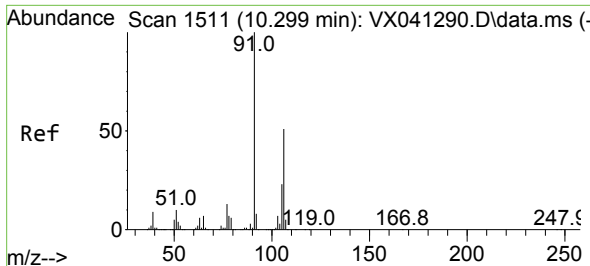
Tgt Ion: 95 Resp: 110212
Ion Ratio Lower Upper
95 100
174 97.9 0.0 135.6
176 94.0 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX041514.D
Acq: 14 May 2024 12:53

Tgt Ion: 117 Resp: 242027
Ion Ratio Lower Upper
117 100
82 49.9 46.2 69.4
119 32.5 25.5 38.3

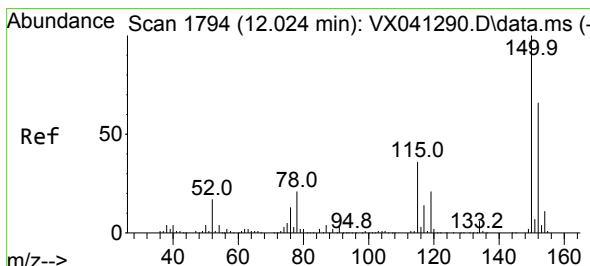
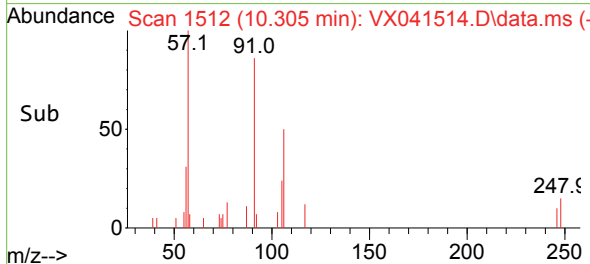
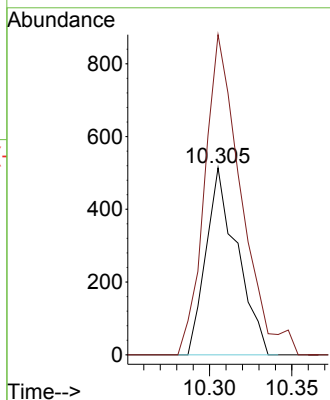
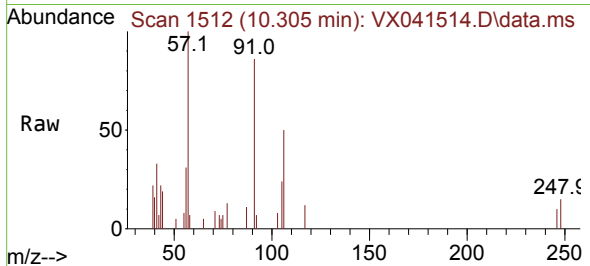




#68
m/p-Xylenes
Concen: 0.208 ug/l
RT: 10.305 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX041514.D
Acq: 14 May 2024 12:53

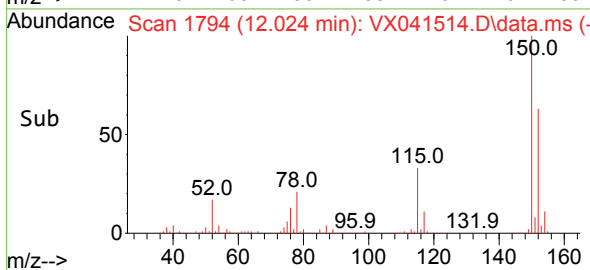
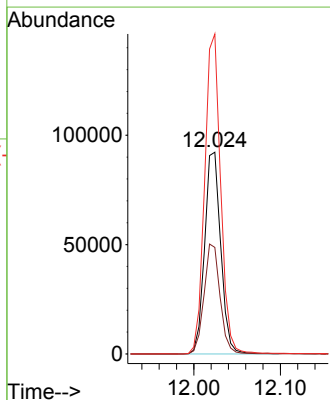
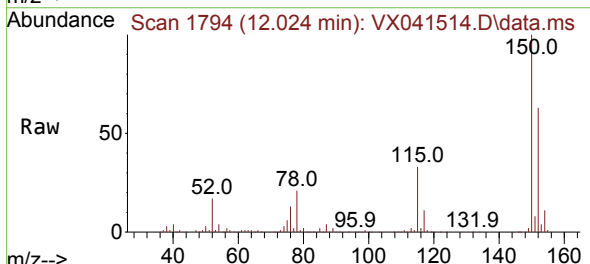
Instrument :
MSVOA_X
ClientSampleId :
PB160869TB

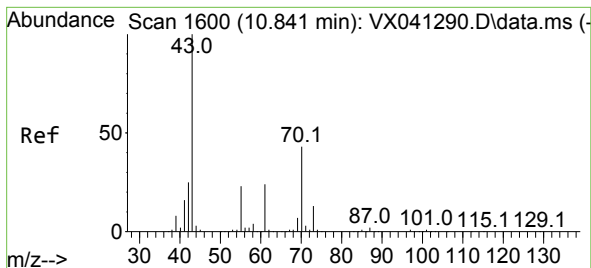
Tgt Ion:106 Resp: 675
Ion Ratio Lower Upper
106 100
91 200.4 165.5 248.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX041514.D
Acq: 14 May 2024 12:53

Tgt Ion:152 Resp: 119435
Ion Ratio Lower Upper
152 100
115 54.3 43.3 129.9
150 157.1 0.0 345.0





#74

N-amy1 acetate

Concen: 8.865 ug/l

RT: 10.640 min Scan# 1

Delta R.T. -0.201 min

Lab File: VX041514.D

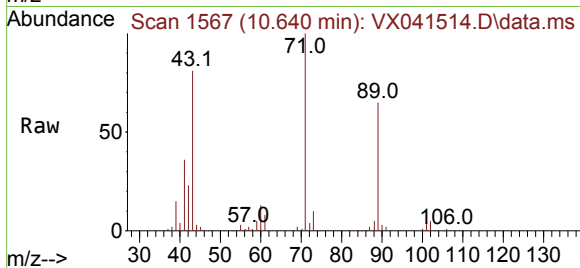
Acq: 14 May 2024 12:53

Instrument :

MSVOA_X

ClientSampleId :

PB160869TB



Tgt Ion: 43 Resp: 28236

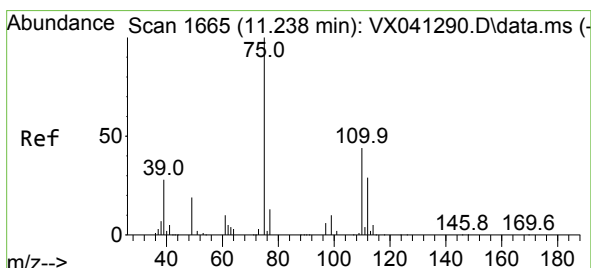
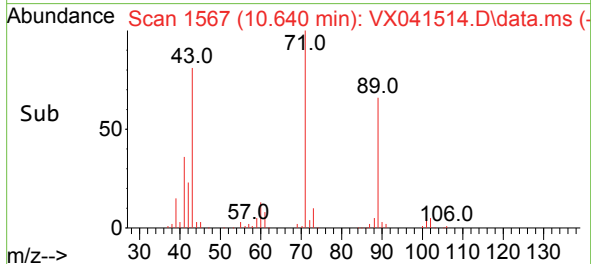
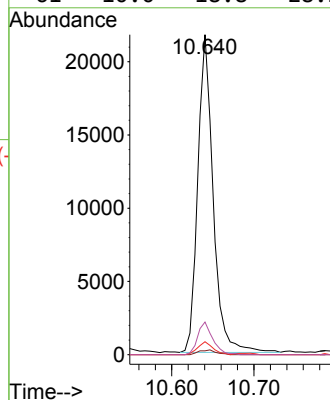
Ion Ratio Lower Upper

43 100

70 1.7 32.9 49.3#

55 4.0 19.3 28.9#

61 10.0 18.8 28.2#



#76

1,2,3-Trichloropropane

Concen: 28.941 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX041514.D

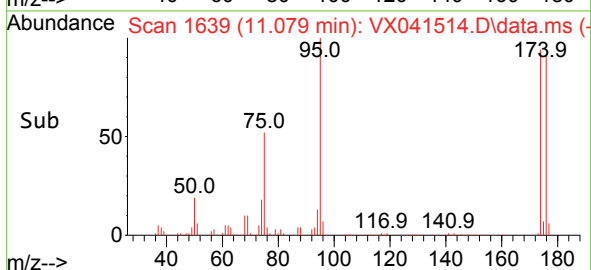
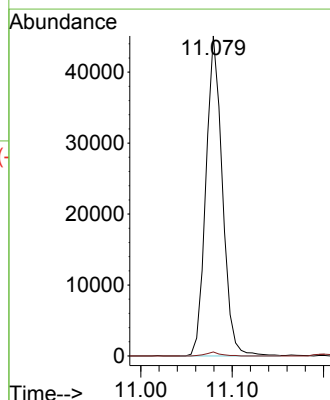
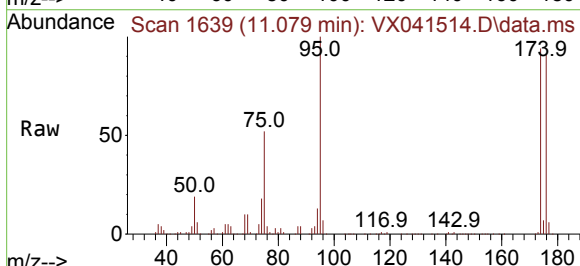
Acq: 14 May 2024 12:53

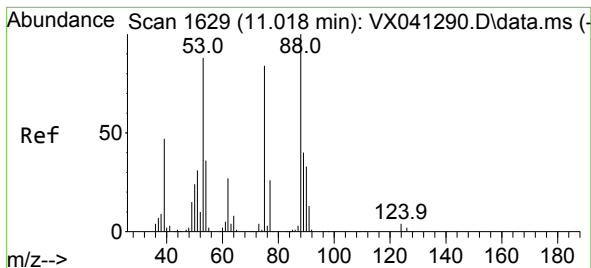
Tgt Ion: 75 Resp: 56332

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#

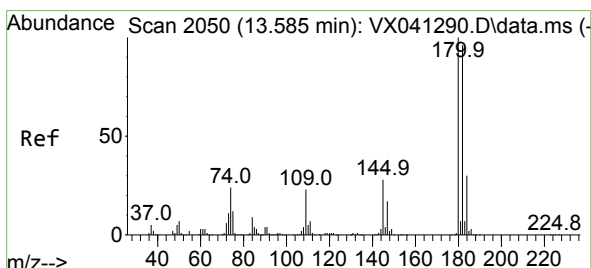
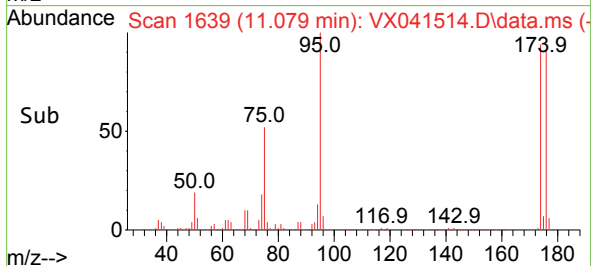
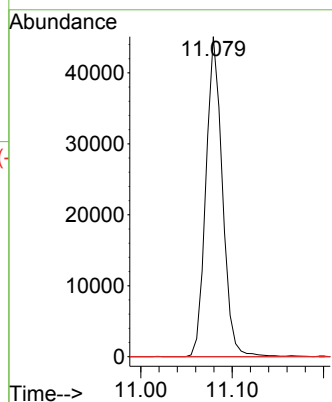
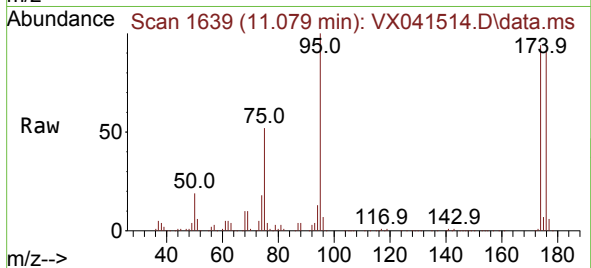




#81
trans-1,4-Dichloro-2-butene
Concen: 78.833 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX041514.D
Acq: 14 May 2024 12:53

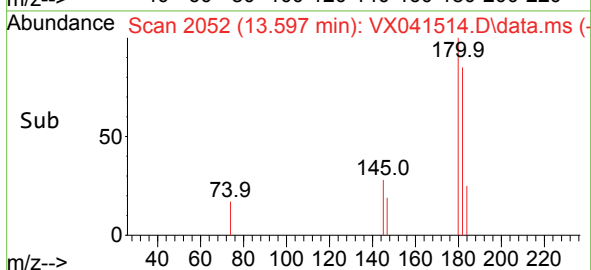
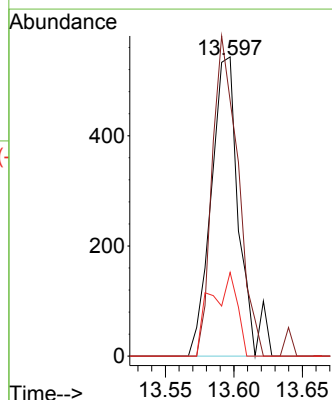
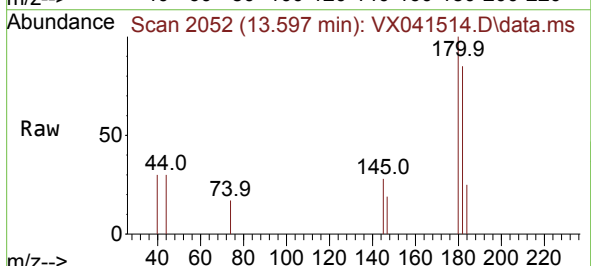
Instrument :
MSVOA_X
ClientSampleId :
PB160869TB

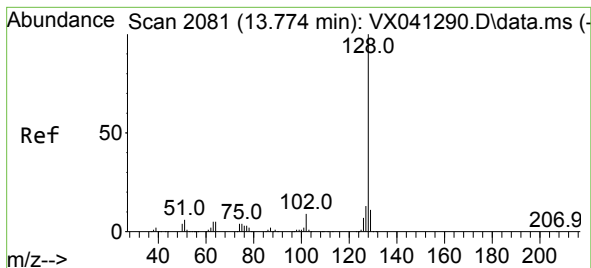
Tgt Ion: 75 Resp: 56332
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 36.9 55.3#



#93
1,2,4-Trichlorobenzene
Concen: 0.277 ug/l
RT: 13.597 min Scan# 2052
Delta R.T. 0.012 min
Lab File: VX041514.D
Acq: 14 May 2024 12:53

Tgt Ion:180 Resp: 766
Ion Ratio Lower Upper
180 100
182 99.0 48.3 144.8
145 26.6 18.0 54.0





#95

Naphthalene

Concen: 0.345 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX041514.D

Acq: 14 May 2024 12:53

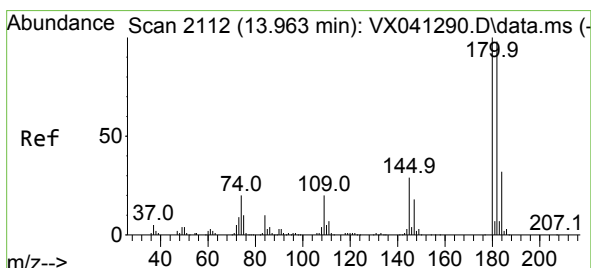
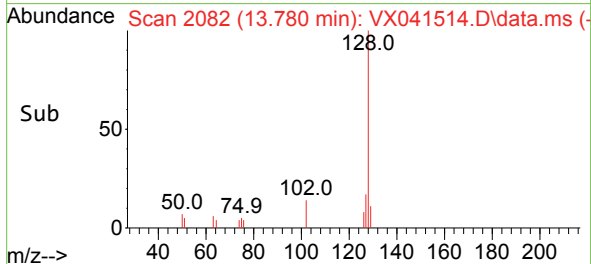
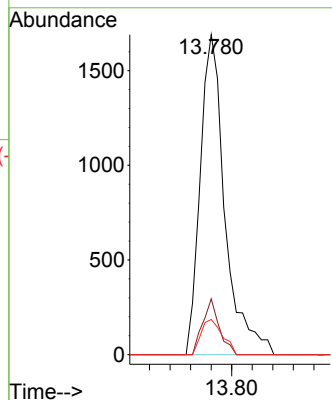
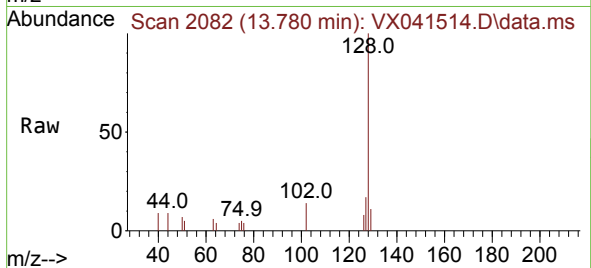
Instrument :

MSVOA_X

ClientSampleId :

PB160869TB

Tgt Ion:128	Resp:	2824
Ion Ratio	Lower	Upper
128	100	
127	11.7	10.3 15.5
129	9.5	8.8 13.2



#96

1,2,3-Trichlorobenzene

Concen: 0.264 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. 0.000 min

Lab File: VX041514.D

Acq: 14 May 2024 12:53

Tgt Ion:180	Resp:	745
Ion Ratio	Lower	Upper
180	100	
182	93.7	46.9 140.6
145	24.8	17.8 53.5

