

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082223\
 Data File : VX037164.D
 Acq On : 22 Aug 2023 20:04
 Operator : JC/MD
 Sample : 04051-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 23 01:48:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081723W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 18 09:30:38 2023
 Response via : Initial Calibration

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

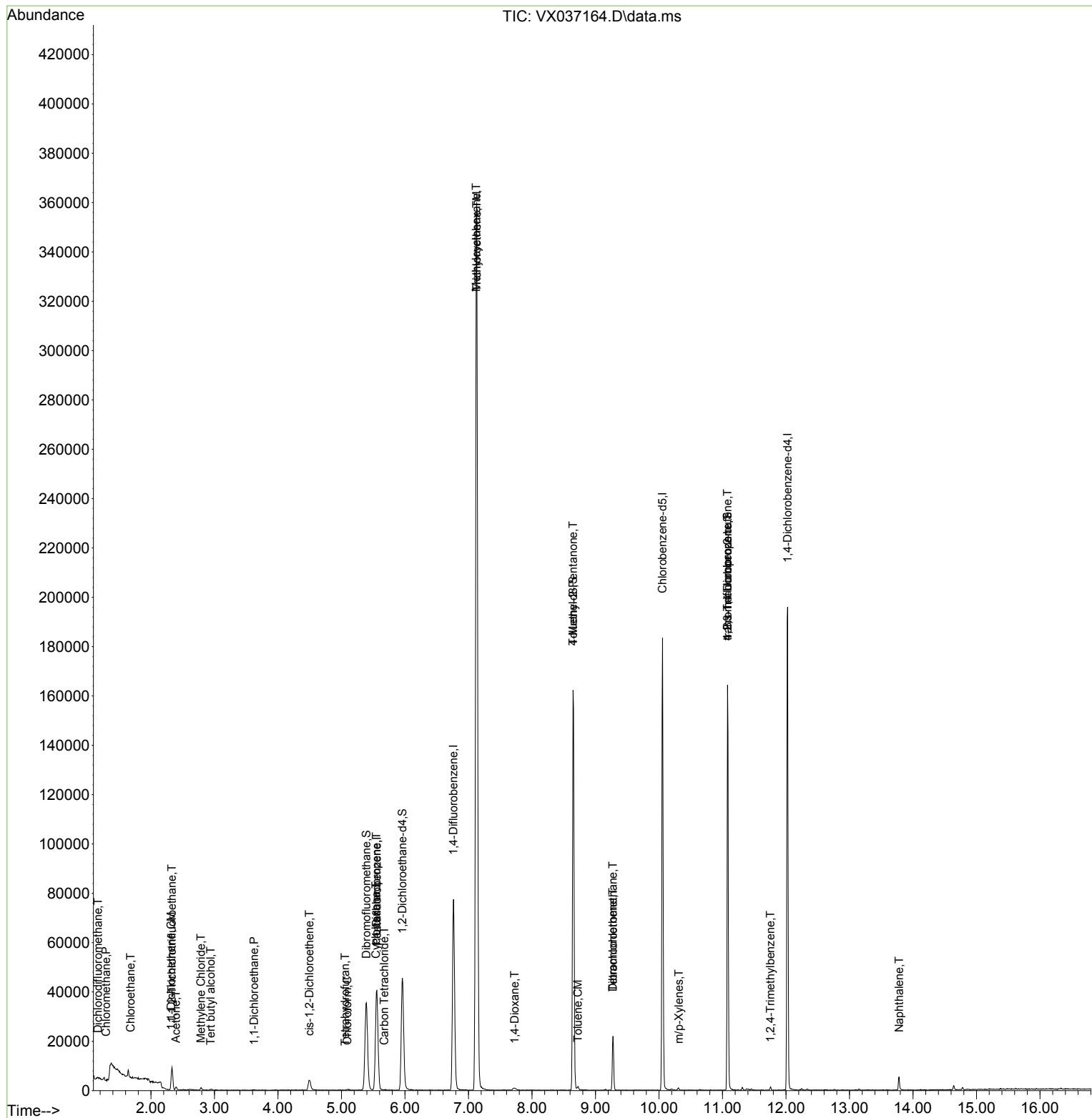
Internal Standards						
1) Pentafluorobenzene	5.556	168	37910	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	80744	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	83457	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	42358	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	47180	86.325	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 172.640%#		
35) Dibromofluoromethane	5.391	113	32188	60.193	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 120.380%		
50) Toluene-d8	8.647	98	101366	52.258	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 104.520%		
62) 4-Bromofluorobenzene	11.079	95	45123	59.194	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 118.380%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.167	85	150	0.341	ug/l #	41
3) Chloromethane	1.295	50	105	0.273	ug/l #	43
6) Chloroethane	1.679	64	242	0.981	ug/l #	46
9) 1,1,2-Trichlorotrifluo...	2.331	101	3010	7.511	ug/l	96
11) Tert butyl alcohol	2.941	59	136	1.061	ug/l #	78
12) 1,1-Dichloroethene	2.319	96	905	2.319	ug/l #	74
16) Acetone	2.392	43	665	3.110	ug/l	99
20) Methylene Chloride	2.788	84	455	0.952	ug/l #	81
24) 1,1-Dichloroethane	3.623	63	256	0.329	ug/l #	83
27) cis-1,2-Dichloroethene	4.495	96	2861	5.471	ug/l	83
29) Tetrahydrofuran	5.056	42	71	0.346	ug/l #	34
30) Chloroform	5.093	83	434	0.497	ug/l #	75
31) Cyclohexane	5.544	56	780	1.269	ug/l #	41
36) 1,1-Dichloropropene	5.550	75	3003	3.953	ug/l #	50
38) Carbon Tetrachloride	5.672	117	183	0.222	ug/l #	49
39) Methylcyclohexane	7.123	83	1682	2.107	ug/l #	1
44) Trichloroethene	7.129	130	143612	232.441	ug/l	98
49) 1,4-Dioxane	7.726	88	1387	85.710	ug/l #	12
51) 4-Methyl-2-Pentanone	8.647	43	439	0.587	ug/l #	1
52) Toluene	8.720	92	544	0.378	ug/l	98
60) Dibromochloromethane	9.275	129	4215	6.753	ug/l #	11
64) Tetrachloroethene	9.275	164	3981	6.539	ug/l	92
68) m/p-Xylenes	10.311	106	335	0.279	ug/l	94
76) 1,2,3-Trichloropropane	11.079	75	23325	25.857	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	23325	72.219	ug/l #	5
84) 1,2,4-Trimethylbenzene	11.756	105	799	0.308	ug/l	98
95) Naphthalene	13.780	128	4233	1.198	ug/l	98

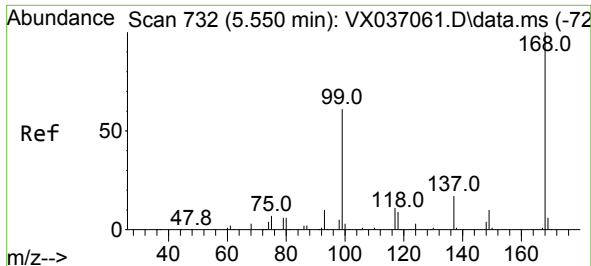
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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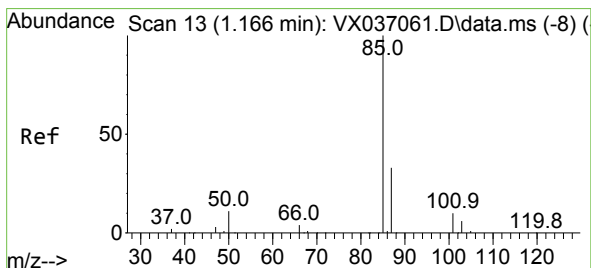
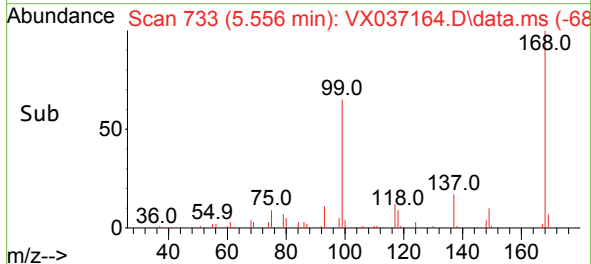
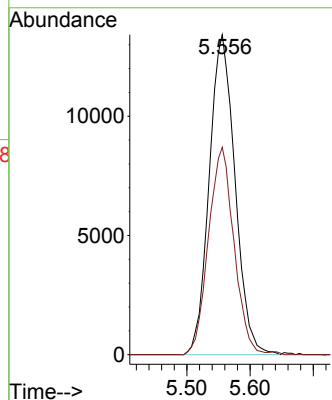
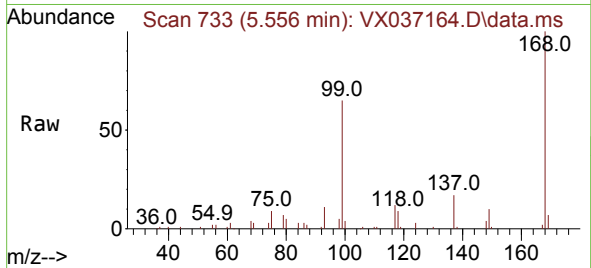




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

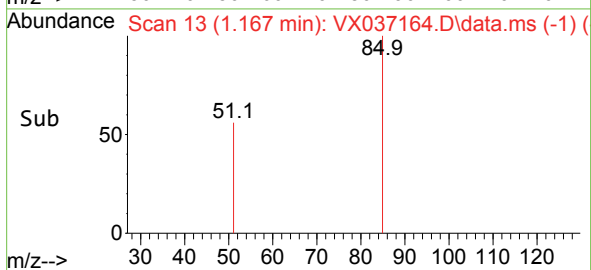
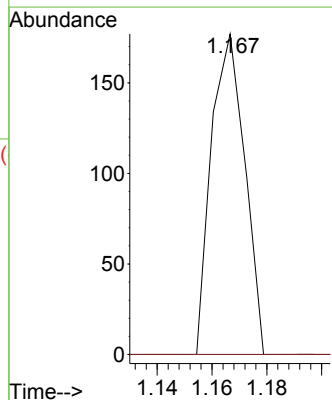
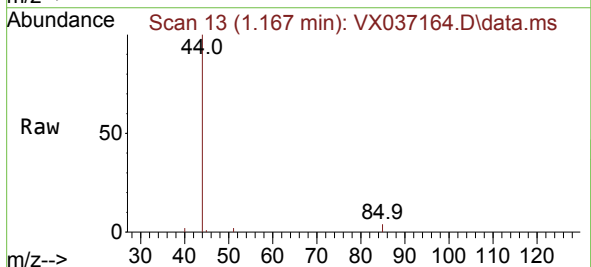
Instrument :
MSVOA_X
ClientSampleId :

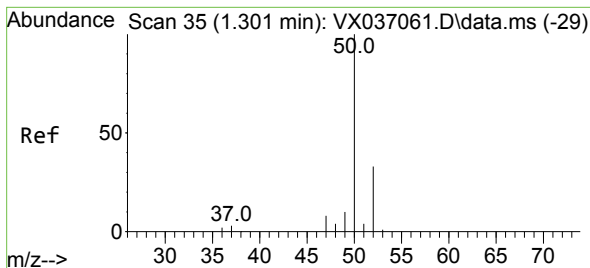
Tgt Ion:168 Resp: 37910
Ion Ratio Lower Upper
168 100
99 64.8 56.6 85.0



#2
Dichlorodifluoromethane
Concen: 0.341 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

Tgt Ion: 85 Resp: 150
Ion Ratio Lower Upper
85 100
87 0.0 16.7 50.1#





#3

Chloromethane

Concen: 0.273 ug/l

RT: 1.295 min Scan# 34

Delta R.T. -0.006 min

Lab File: VX037164.D

Acq: 22 Aug 2023 20:04

Instrument :

MSVOA_X

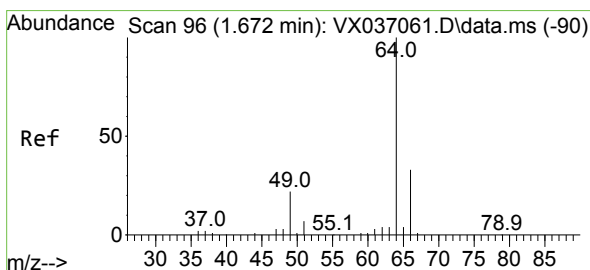
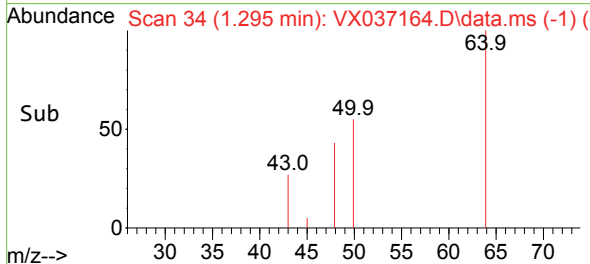
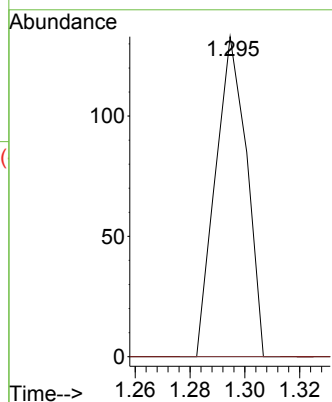
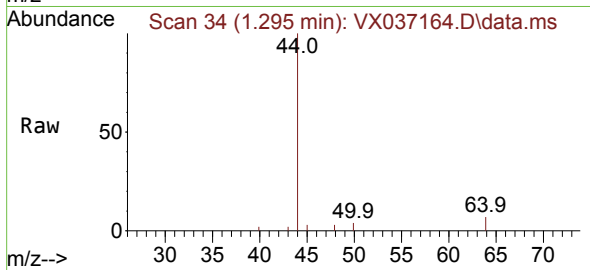
ClientSampleId :

Tgt Ion: 50 Resp: 105

Ion Ratio Lower Upper

50 100

52 0.0 25.5 38.3#



#6

Chloroethane

Concen: 0.981 ug/l

RT: 1.679 min Scan# 97

Delta R.T. 0.007 min

Lab File: VX037164.D

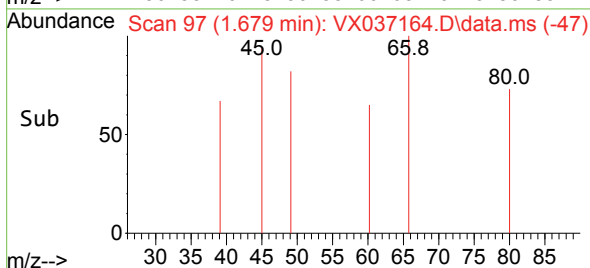
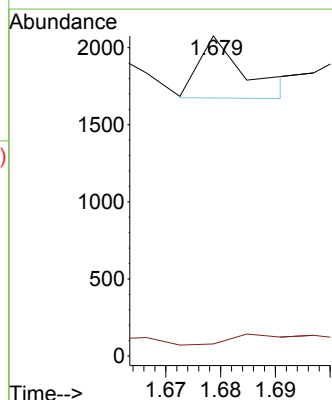
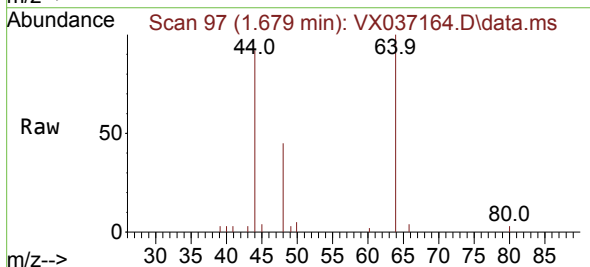
Acq: 22 Aug 2023 20:04

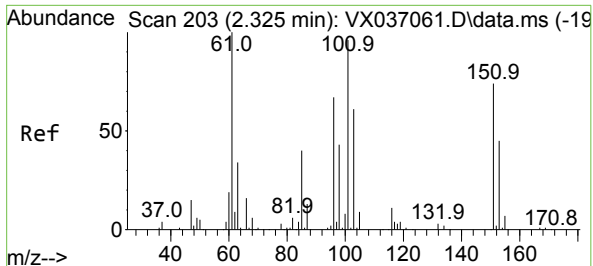
Tgt Ion: 64 Resp: 242

Ion Ratio Lower Upper

64 100

66 1.8 25.1 37.7#

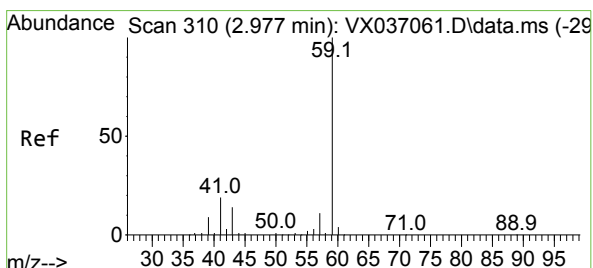
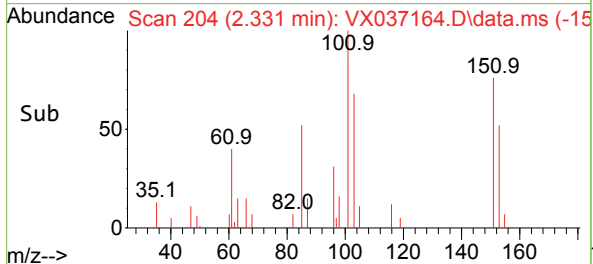
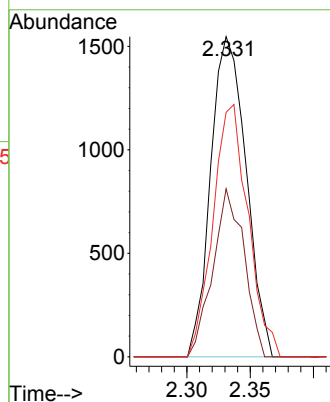
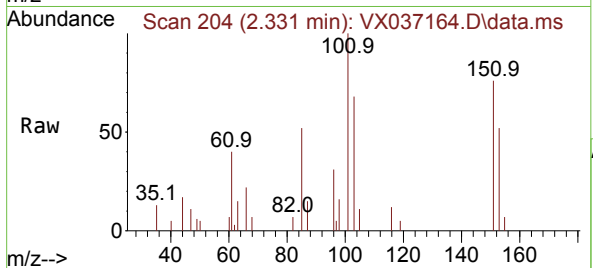




#9
1,1,2-Trichlorotrifluoroethane
Concen: 7.511 ug/l
RT: 2.331 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

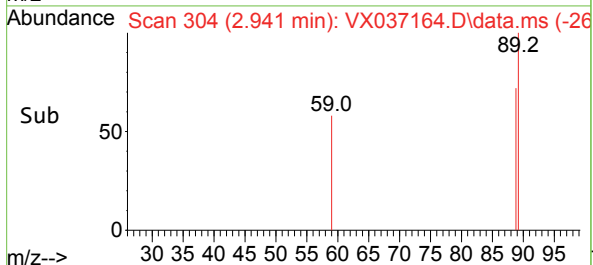
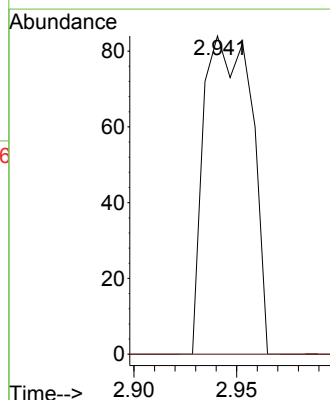
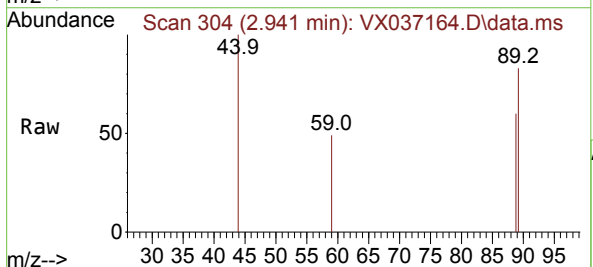
Instrument :
MSVOA_X
ClientSampleId :

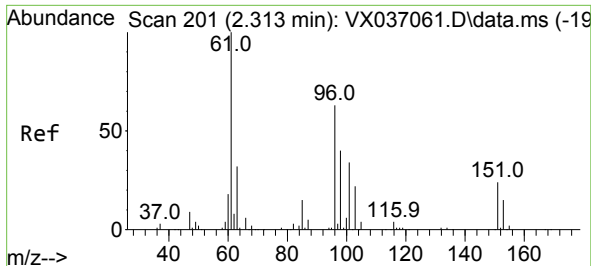
Tgt Ion:101 Resp: 3010
Ion Ratio Lower Upper
101 100
85 46.2 37.0 55.6
151 78.1 58.6 87.8



#11
Tert butyl alcohol
Concen: 1.061 ug/l
RT: 2.941 min Scan# 304
Delta R.T. -0.036 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

Tgt Ion: 59 Resp: 136
Ion Ratio Lower Upper
59 100
57 0.0 6.0 9.0#





#12

1,1-Dichloroethene

Concen: 2.319 ug/l

RT: 2.319 min Scan# 20

Delta R.T. 0.006 min

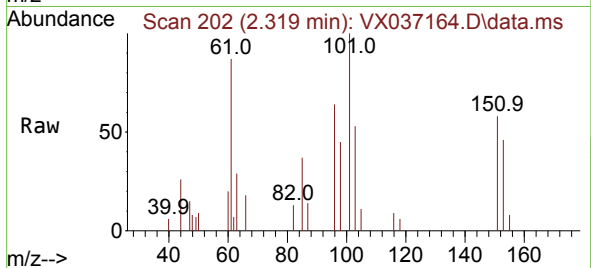
Lab File: VX037164.D

Acq: 22 Aug 2023 20:04

Instrument :

MSVOA_X

ClientSampleId :



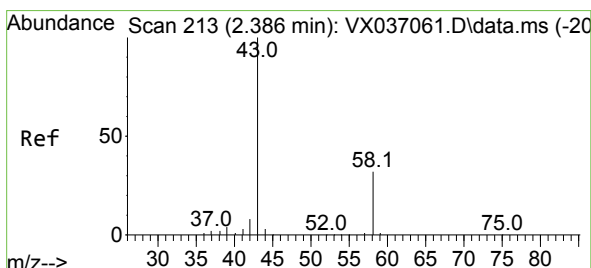
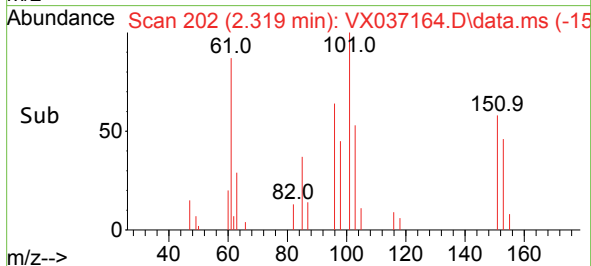
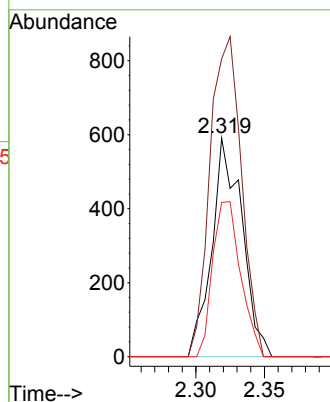
Tgt Ion: 96 Resp: 905

Ion Ratio Lower Upper

96 100

61 136.2 144.6 216.8#

98 70.6 50.4 75.6



#16

Acetone

Concen: 3.110 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.006 min

Lab File: VX037164.D

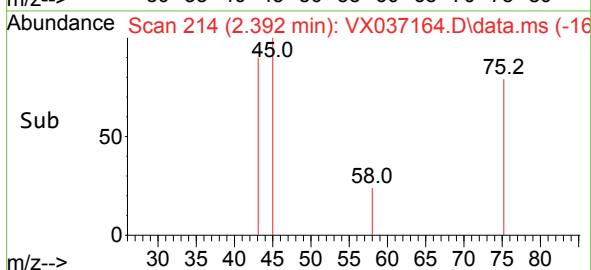
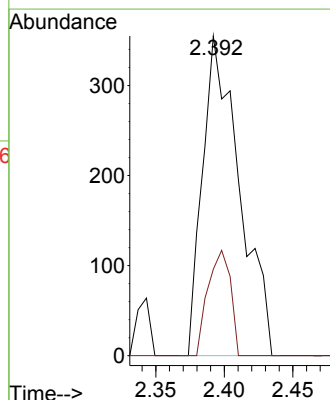
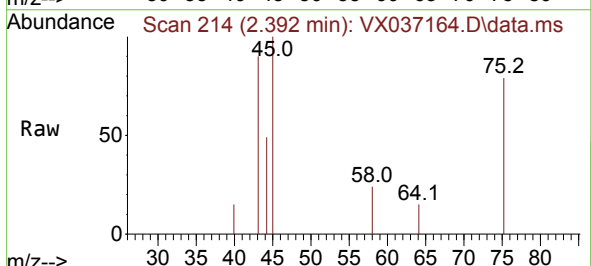
Acq: 22 Aug 2023 20:04

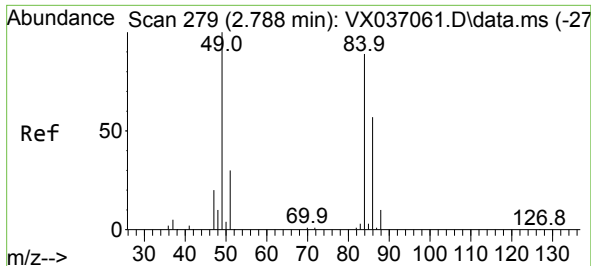
Tgt Ion: 43 Resp: 665

Ion Ratio Lower Upper

43 100

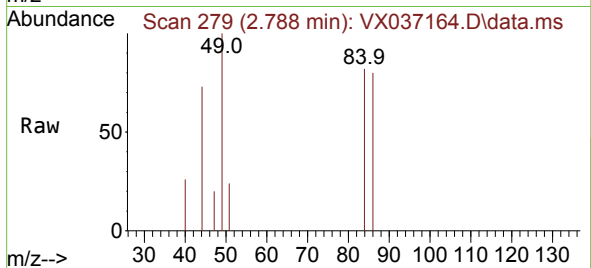
58 27.0 21.9 32.9



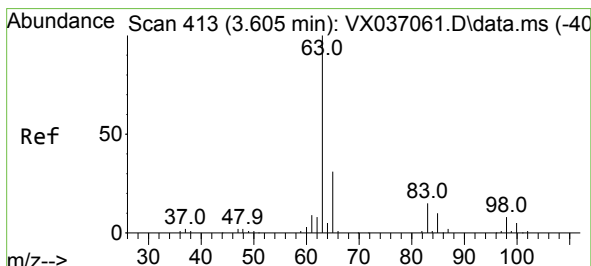
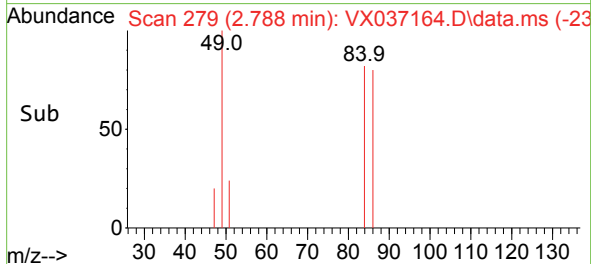
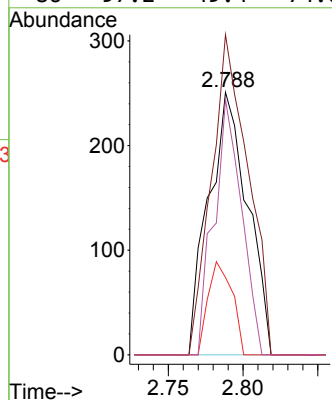


#20
Methylene Chloride
Concen: 0.952 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

Instrument :
MSVOA_X
ClientSampleId :

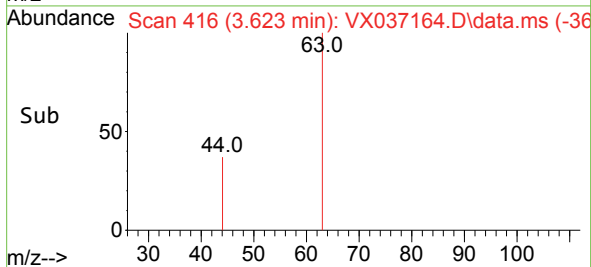
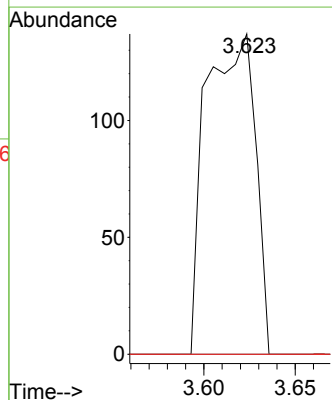
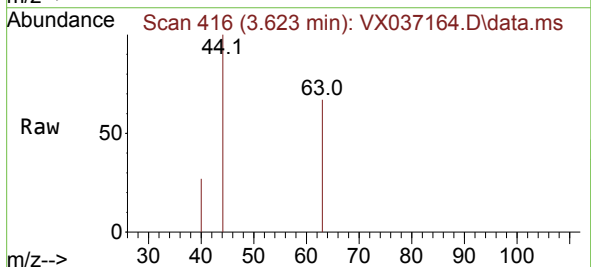


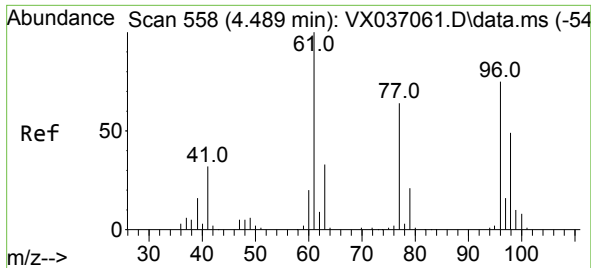
Tgt Ion:	84	Resp:	455
Ion	Ratio	Lower	Upper
84	100		
49	121.9	103.6	155.4
51	29.5	33.8	50.6#
86	97.2	49.4	74.0#



#24
1,1-Dichloroethane
Concen: 0.329 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.018 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

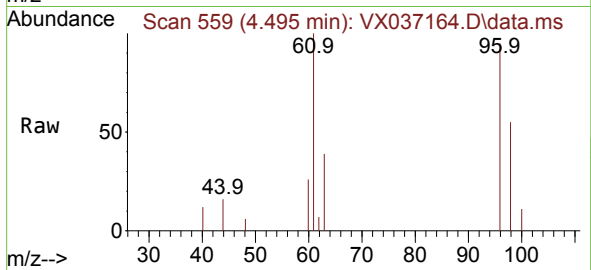
Tgt Ion:	63	Resp:	256
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.3	9.8#
100	0.0	2.1	6.5#



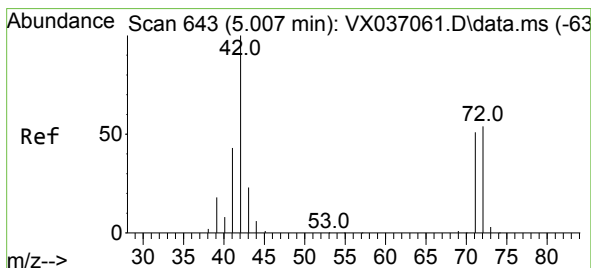
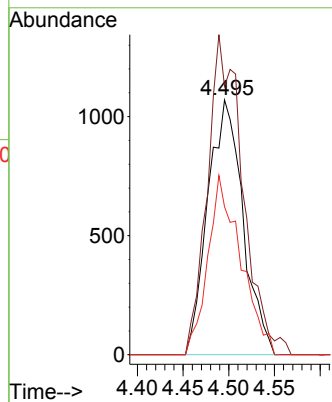
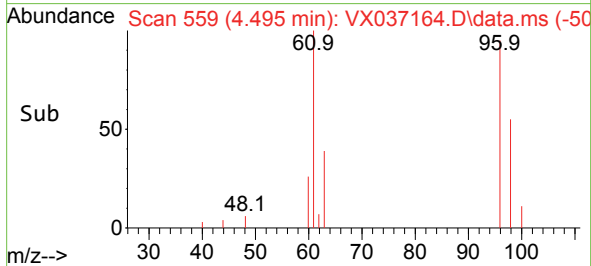


#27
cis-1,2-Dichloroethene
Concen: 5.471 ug/l
RT: 4.495 min Scan# 51
Delta R.T. 0.006 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

Instrument :
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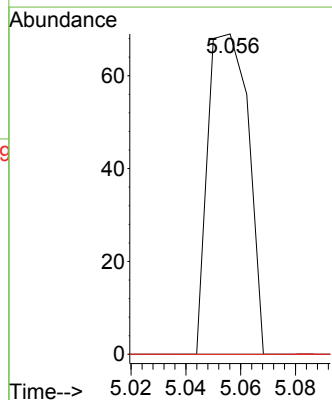
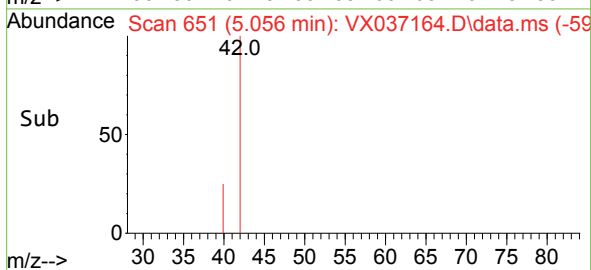
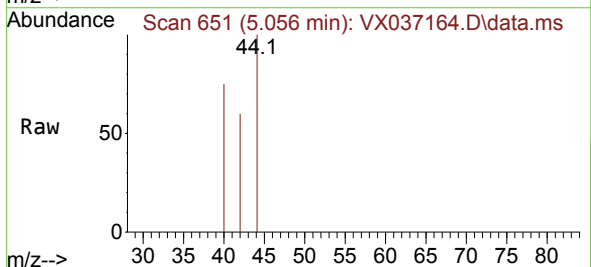


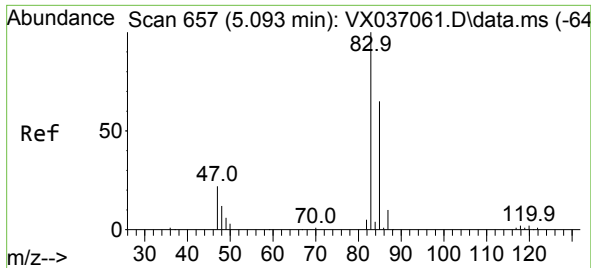
Tgt Ion: 96 Resp: 2861
Ion Ratio Lower Upper
96 100
61 126.0 0.0 312.2
98 65.7 0.0 129.0



#29
Tetrahydrofuran
Concen: 0.346 ug/l
RT: 5.056 min Scan# 651
Delta R.T. 0.049 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

Tgt Ion: 42 Resp: 71
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.4#
71 0.0 32.2 48.2#

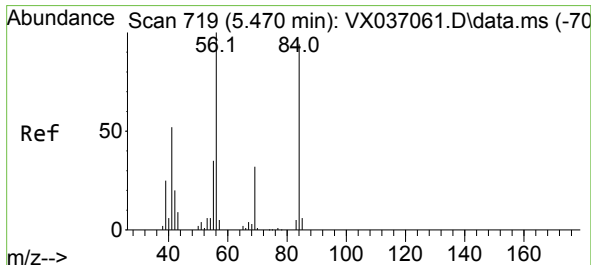
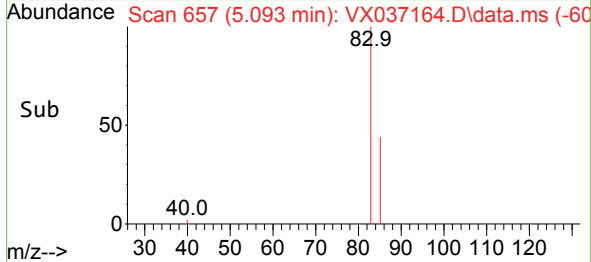
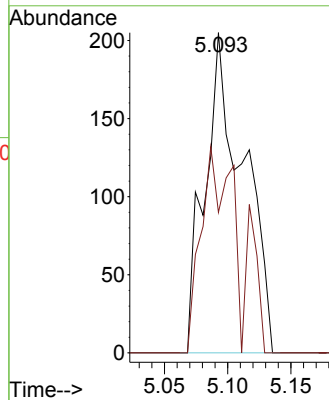
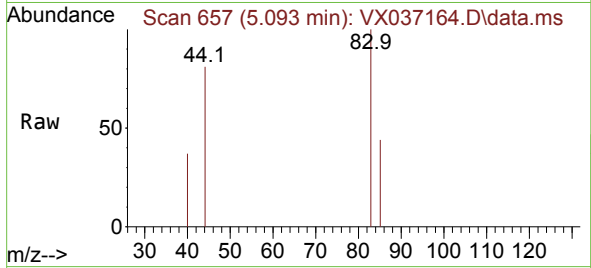




#30
Chloroform
Concen: 0.497 ug/l
RT: 5.093 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

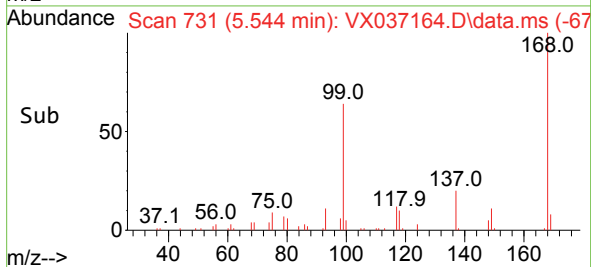
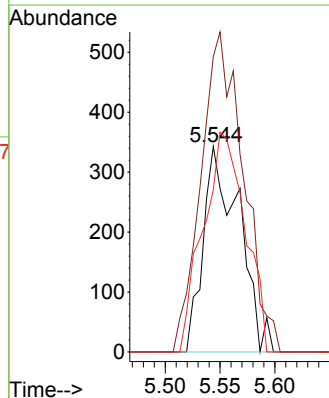
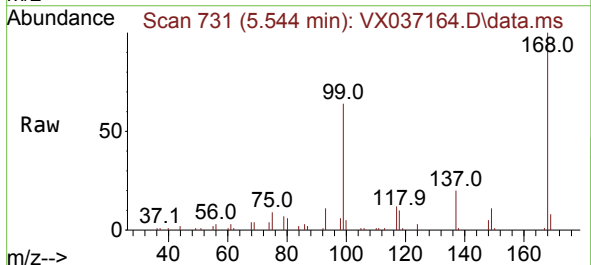
Instrument :
MSVOA_X
ClientSampleId :

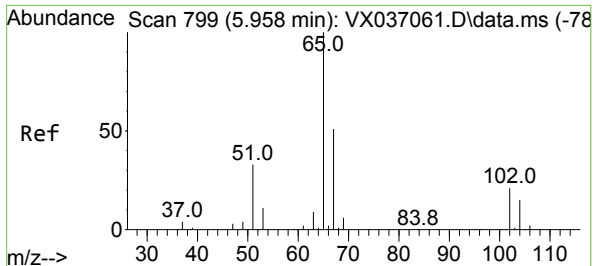
Tgt Ion: 83 Resp: 434
Ion Ratio Lower Upper
83 100
85 43.9 50.3 75.5#



#31
Cyclohexane
Concen: 1.269 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.073 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

Tgt Ion: 56 Resp: 780
Ion Ratio Lower Upper
56 100
69 143.7 23.4 35.2#
84 79.0 65.9 98.9





#33

1,2-Dichloroethane-d4

Concen: 86.325 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX037164.D

Acq: 22 Aug 2023 20:04

Instrument :

MSVOA_X

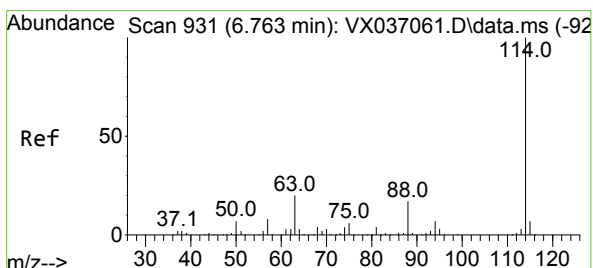
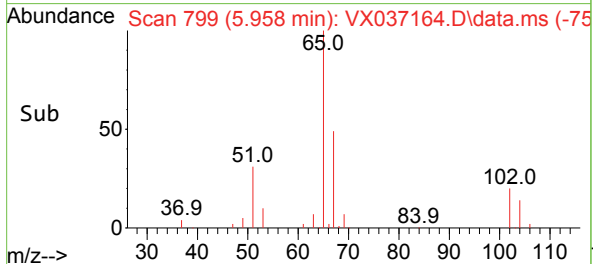
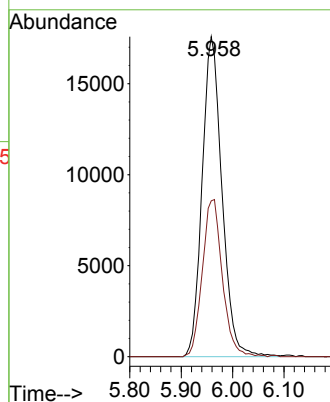
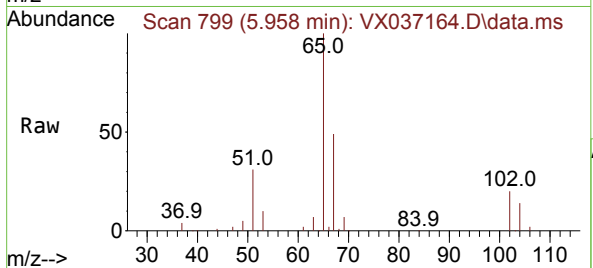
ClientSampleId :

Tgt Ion: 65 Resp: 47180

Ion Ratio Lower Upper

65 100

67 49.6 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX037164.D

Acq: 22 Aug 2023 20:04

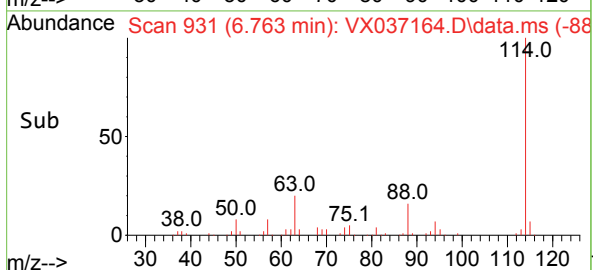
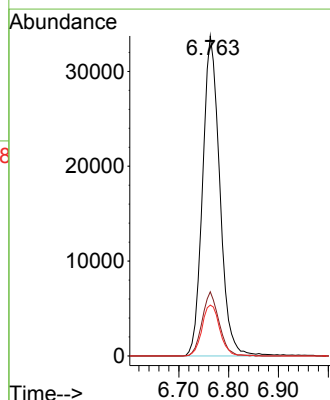
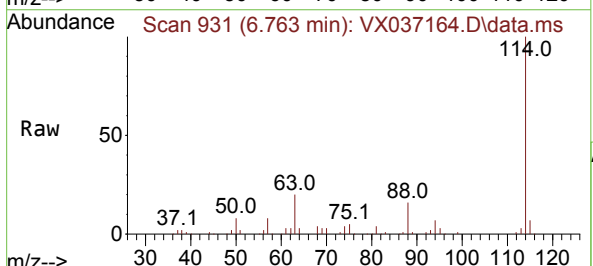
Tgt Ion: 114 Resp: 80744

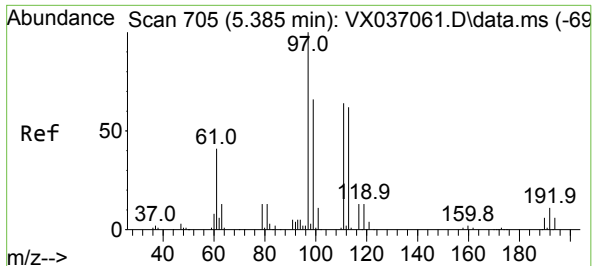
Ion Ratio Lower Upper

114 100

63 20.0 0.0 45.0

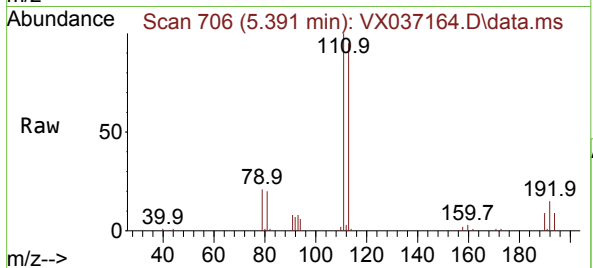
88 15.9 0.0 36.6



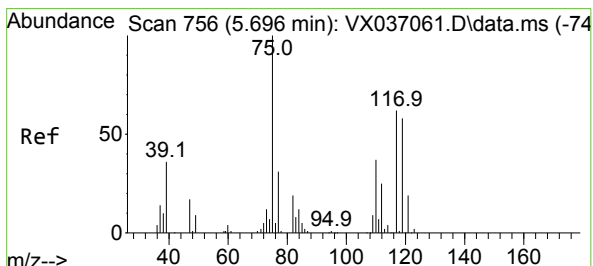
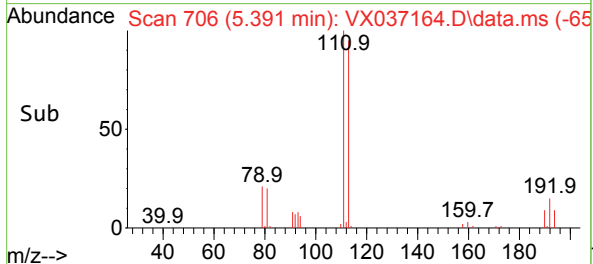
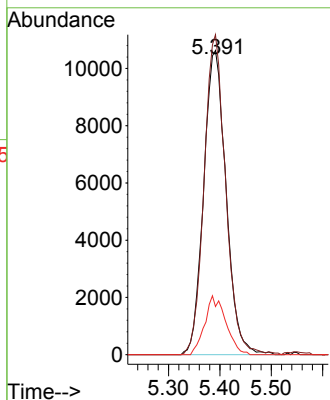


#35
Dibromofluoromethane
Concen: 60.193 ug/l
RT: 5.391 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

Instrument :
MSVOA_X
ClientSampleId :

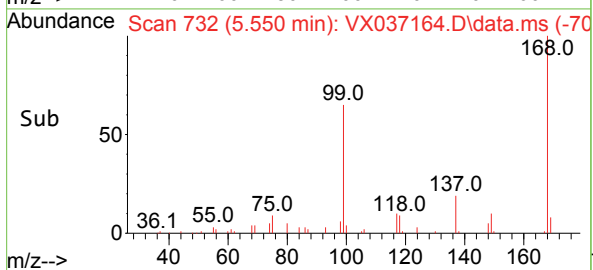
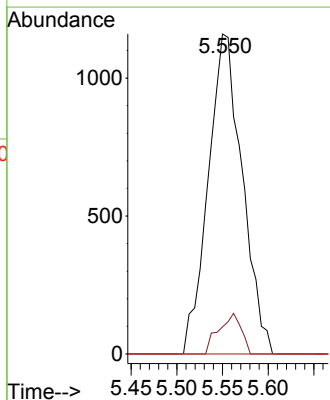
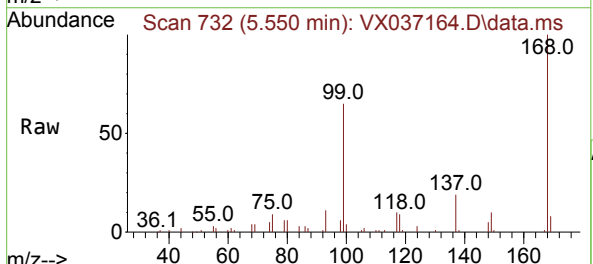


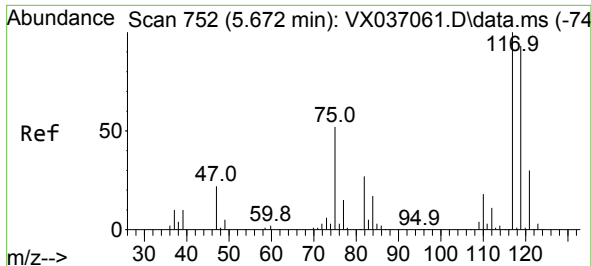
Tgt Ion:113 Resp: 32188
Ion Ratio Lower Upper
113 100
111 101.3 82.9 124.3
192 18.2 13.3 19.9



#36
1,1-Dichloropropene
Concen: 3.953 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.146 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

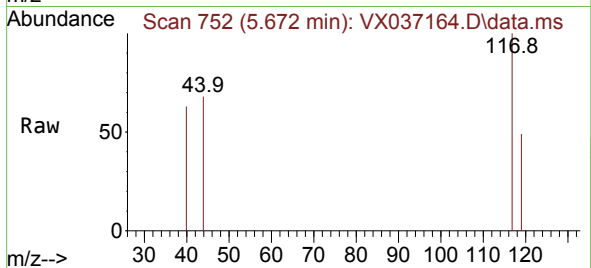
Tgt Ion: 75 Resp: 3003
Ion Ratio Lower Upper
75 100
110 8.4 17.0 50.9#
77 0.0 24.7 37.1#



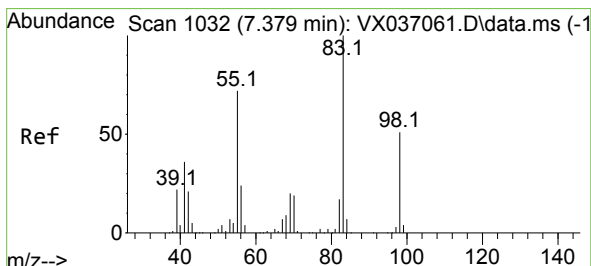
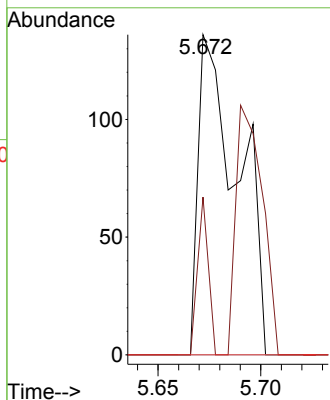
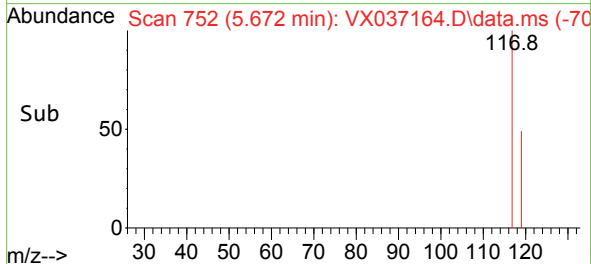


#38
Carbon Tetrachloride
Concen: 0.222 ug/l
RT: 5.672 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

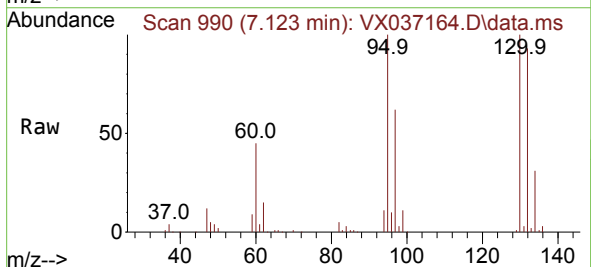
Instrument :
MSVOA_X
ClientSampleId :



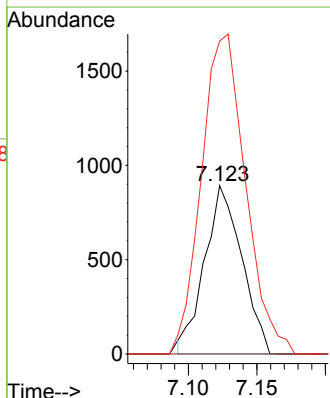
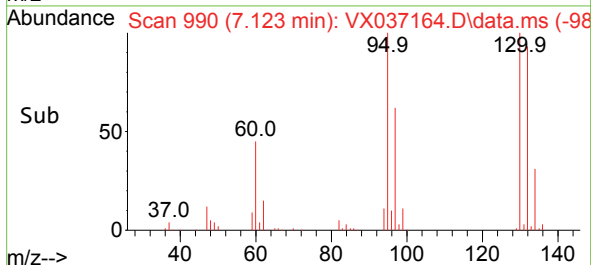
Tgt Ion:117 Resp: 183
Ion Ratio Lower Upper
117 100
119 49.3 78.2 117.2#
121 0.0 24.4 36.6#

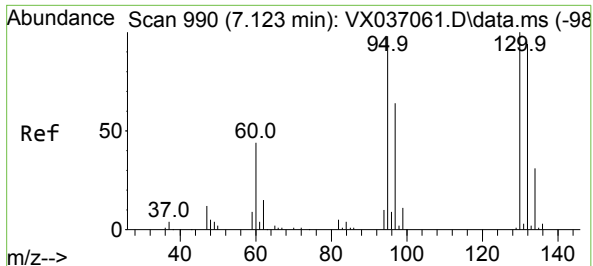


#39
Methylcyclohexane
Concen: 2.107 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.256 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04



Tgt Ion: 83 Resp: 1682
Ion Ratio Lower Upper
83 100
55 0.0 64.6 97.0#
98 175.3 36.7 55.1#

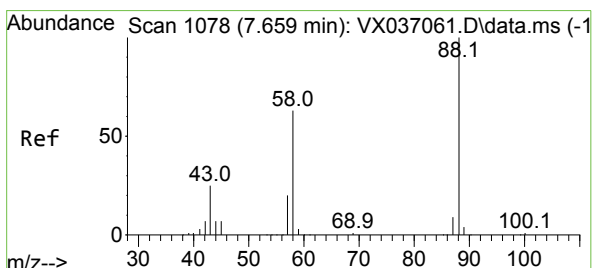
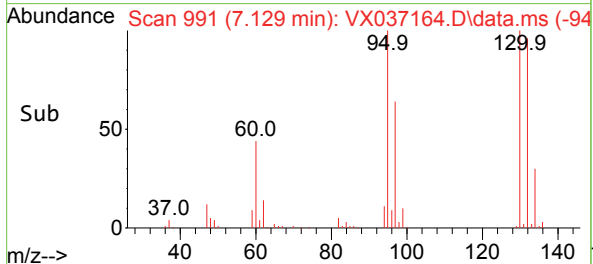
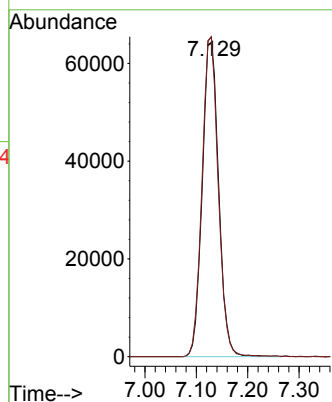
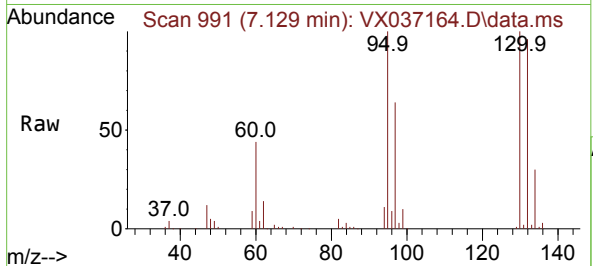




#44
Trichloroethene
Concen: 232.441 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

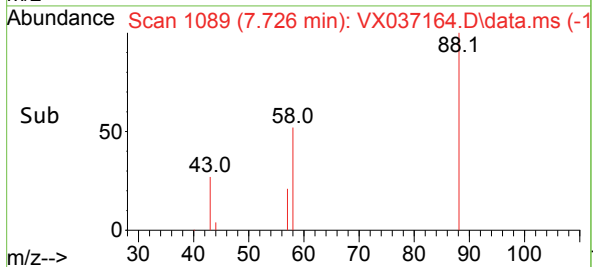
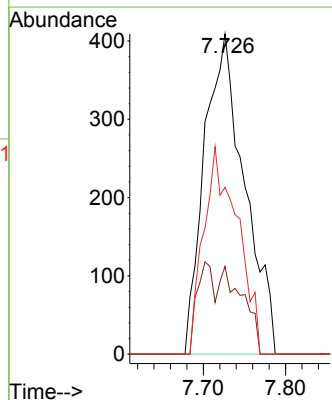
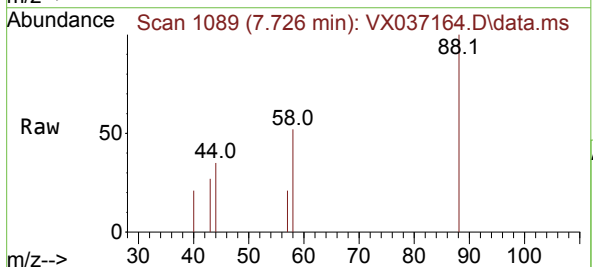
Instrument :
MSVOA_X
ClientSampleId :

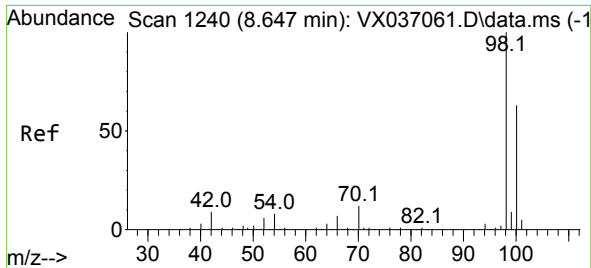
Tgt Ion:130 Resp: 143612
Ion Ratio Lower Upper
130 100
95 100.1 0.0 204.4



#49
1,4-Dioxane
Concen: 85.710 ug/l
RT: 7.726 min Scan# 1089
Delta R.T. 0.067 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

Tgt Ion: 88 Resp: 1387
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 0.0 60.1 90.1#

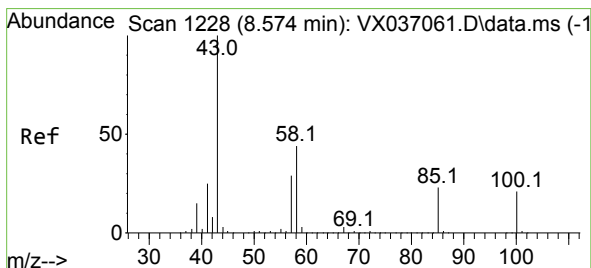
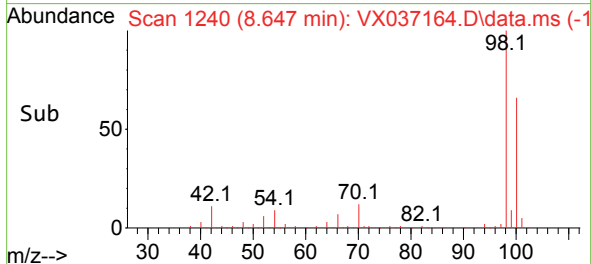
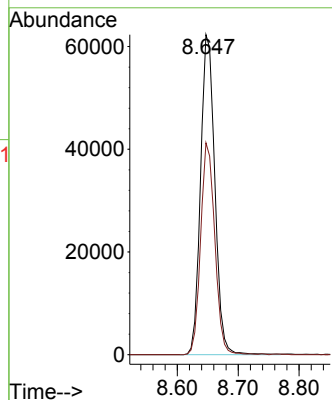
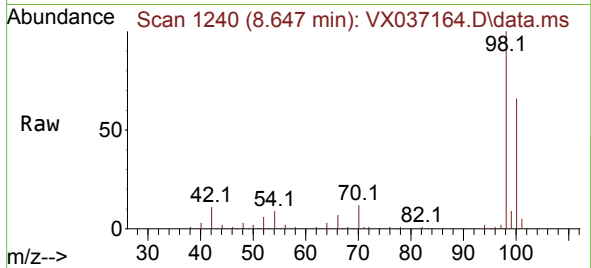




#50
Toluene-d8
Concen: 52.258 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

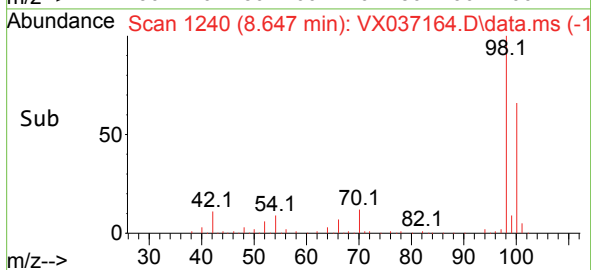
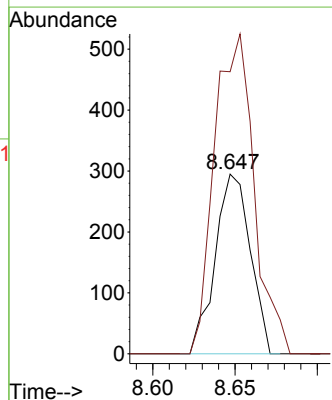
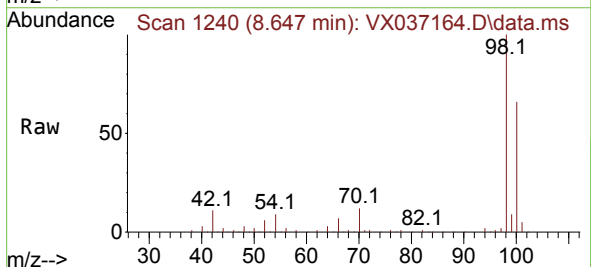
Instrument :
MSVOA_X
ClientSampleId :

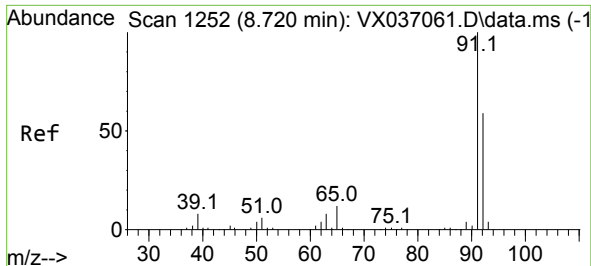
Tgt Ion: 98 Resp: 101366
Ion Ratio Lower Upper
98 100
100 65.8 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 0.587 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.073 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

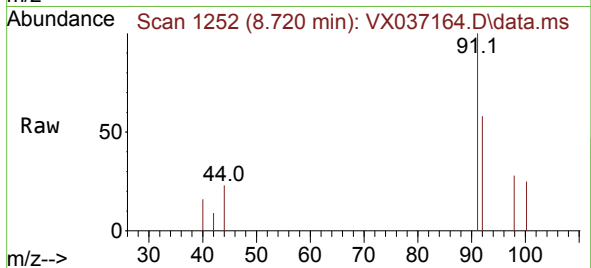
Tgt Ion: 43 Resp: 439
Ion Ratio Lower Upper
43 100
58 200.7 30.4 45.6#



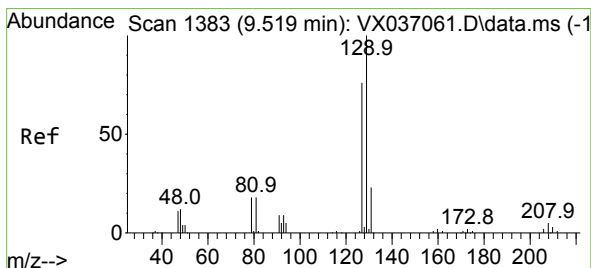
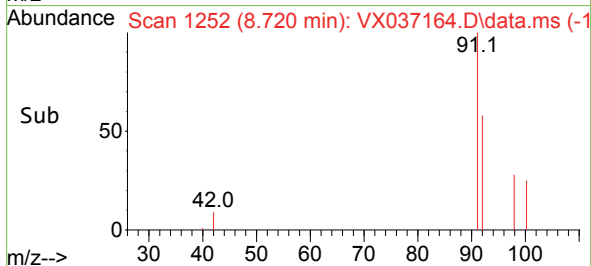
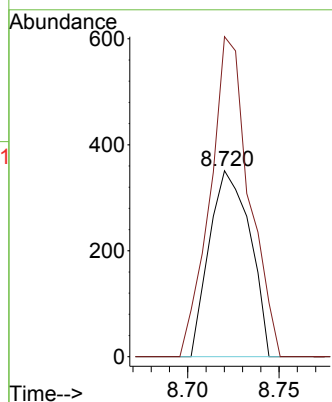


#52
Toluene
Concen: 0.378 ug/l
RT: 8.720 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

Instrument :
MSVOA_X
ClientSampleId :

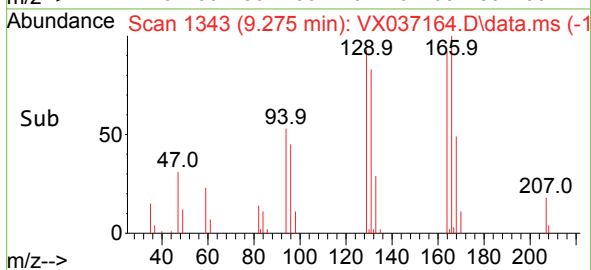
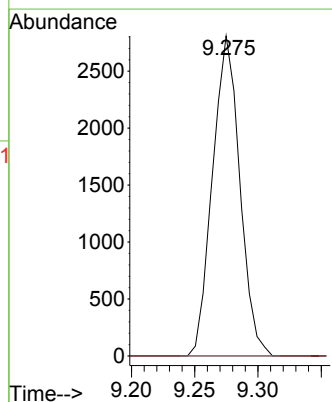
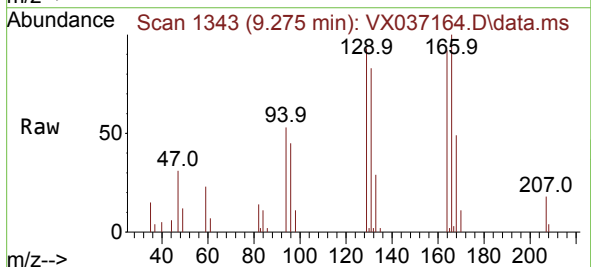


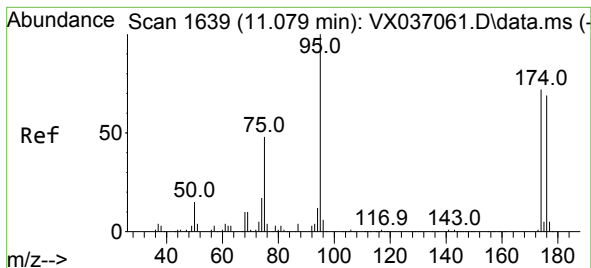
Tgt Ion: 92 Resp: 544
Ion Ratio Lower Upper
92 100
91 165.3 134.2 201.2



#60
Dibromochloromethane
Concen: 6.753 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.244 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

Tgt Ion: 129 Resp: 4215
Ion Ratio Lower Upper
129 100
127 0.0 38.8 116.4#

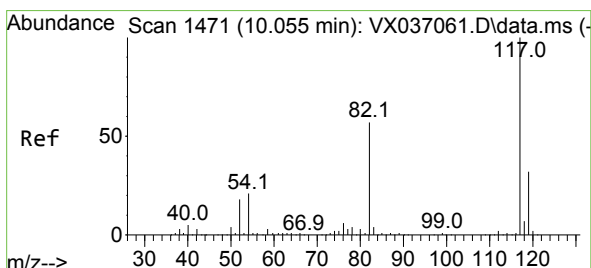
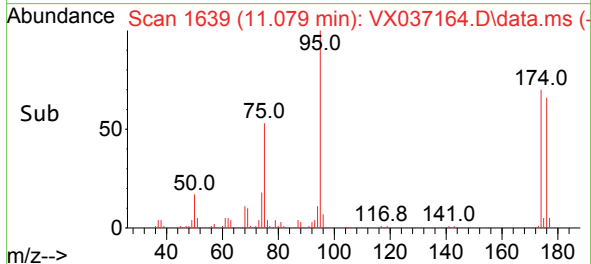
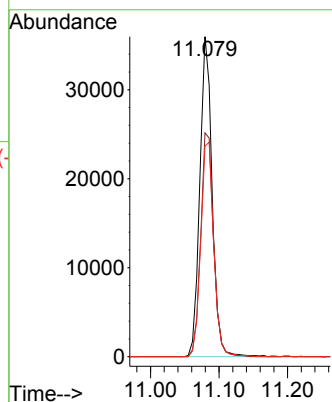
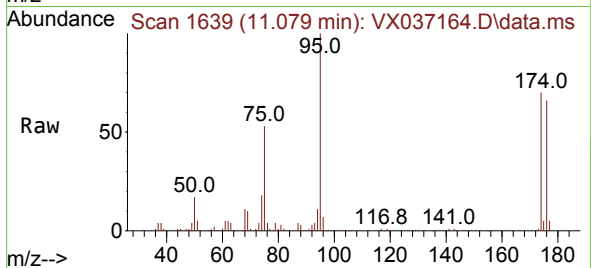




#62
4-Bromofluorobenzene
Concen: 59.194 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

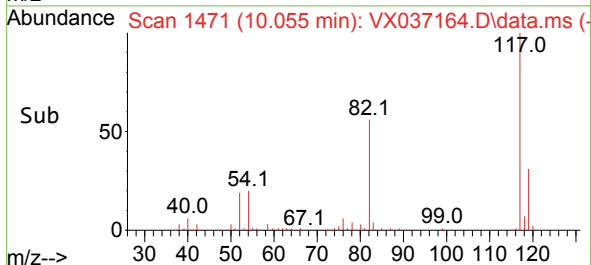
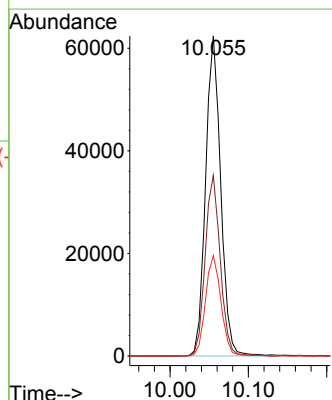
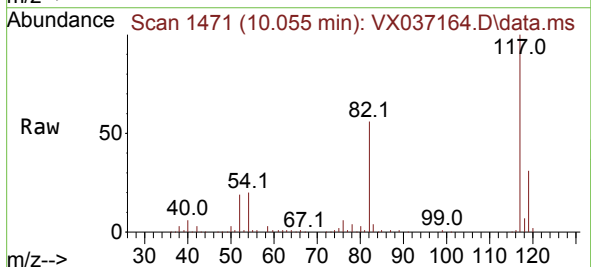
Instrument :
MSVOA_X
ClientSampleId :

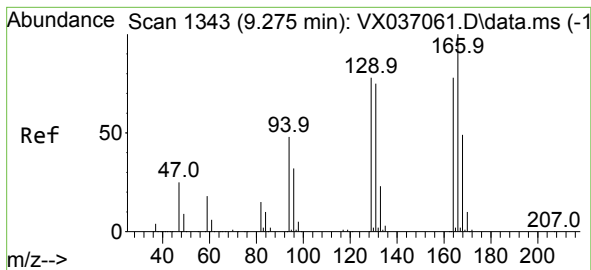
Tgt Ion: 95 Resp: 45123
Ion Ratio Lower Upper
95 100
174 73.0 0.0 135.6
176 70.3 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

Tgt Ion: 117 Resp: 83457
Ion Ratio Lower Upper
117 100
82 56.4 46.2 69.4
119 31.4 25.5 38.3





#64

Tetrachloroethene

Concen: 6.539 ug/l

RT: 9.275 min Scan# 11

Delta R.T. 0.000 min

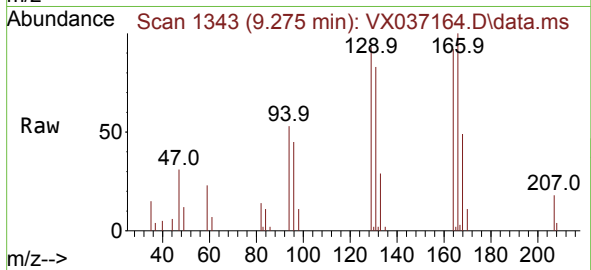
Lab File: VX037164.D

Acq: 22 Aug 2023 20:04

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:164 Resp: 3981

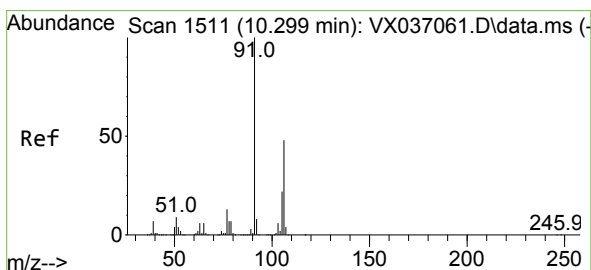
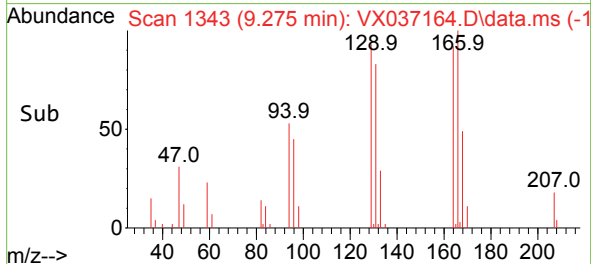
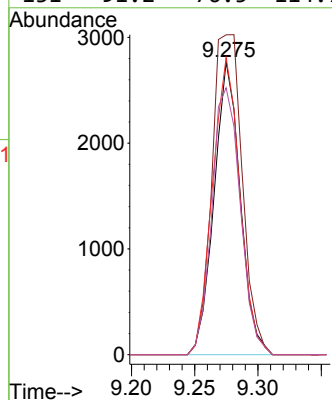
Ion Ratio Lower Upper

164 100

166 109.3 102.7 154.1

129 101.5 80.4 120.6

131 91.2 76.5 114.7



#68

m/p-Xylenes

Concen: 0.279 ug/l

RT: 10.311 min Scan# 1513

Delta R.T. 0.012 min

Lab File: VX037164.D

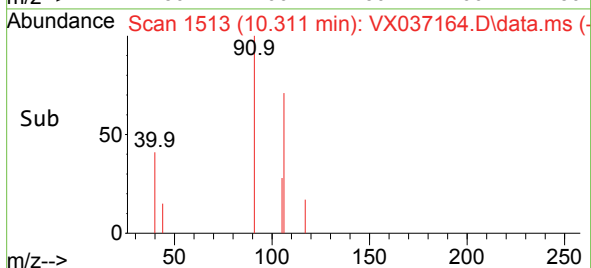
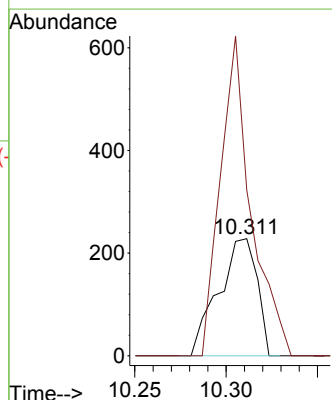
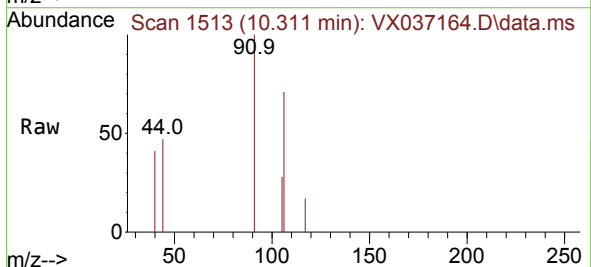
Acq: 22 Aug 2023 20:04

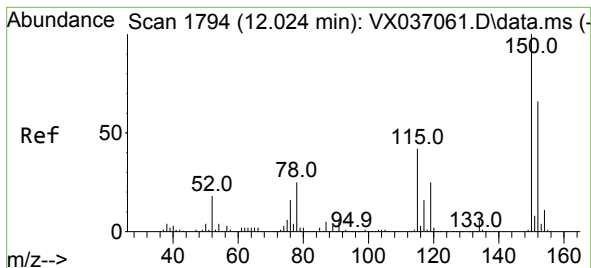
Tgt Ion:106 Resp: 335

Ion Ratio Lower Upper

106 100

91 216.7 165.5 248.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX037164.D

Acq: 22 Aug 2023 20:04

Instrument :

MSVOA_X

ClientSampleId :

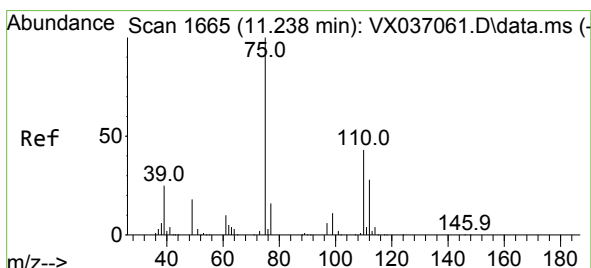
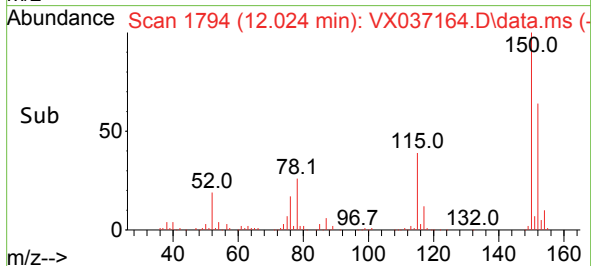
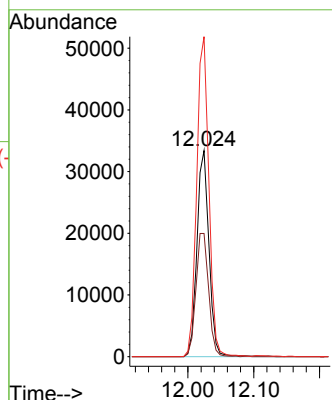
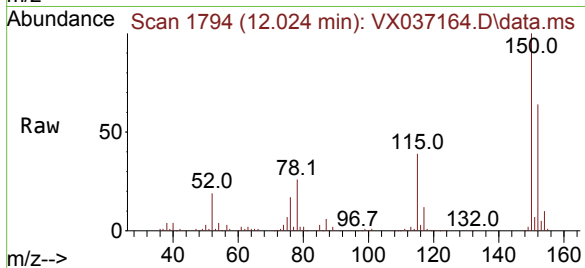
Tgt Ion:152 Resp: 42358

Ion Ratio Lower Upper

152 100

115 63.0 43.3 129.9

150 156.7 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 25.857 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX037164.D

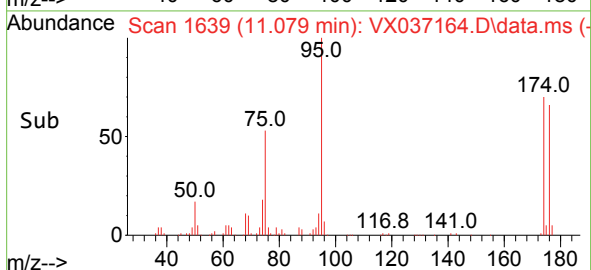
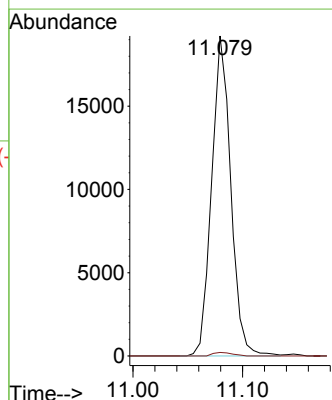
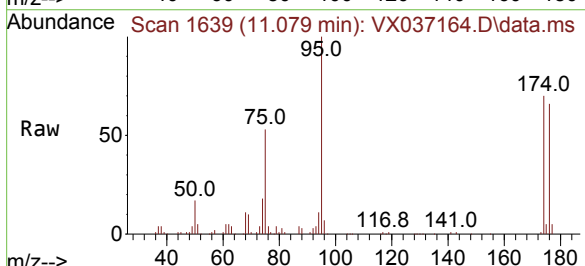
Acq: 22 Aug 2023 20:04

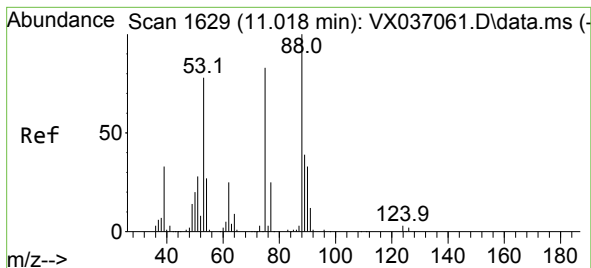
Tgt Ion: 75 Resp: 23325

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#

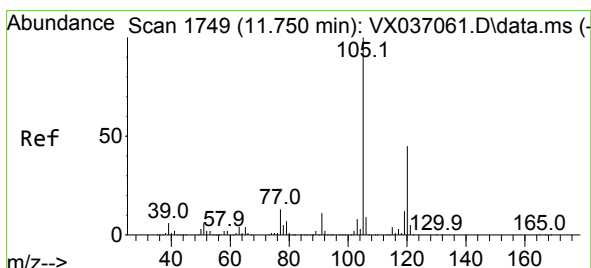
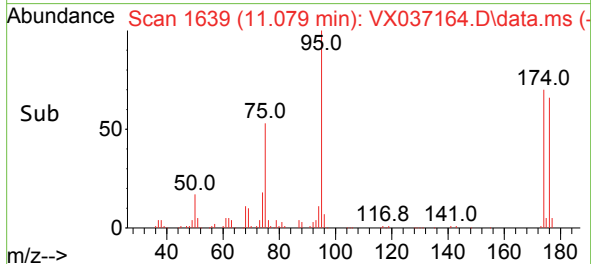
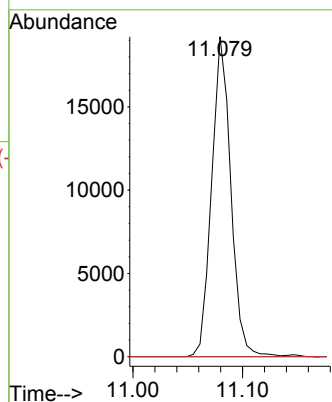
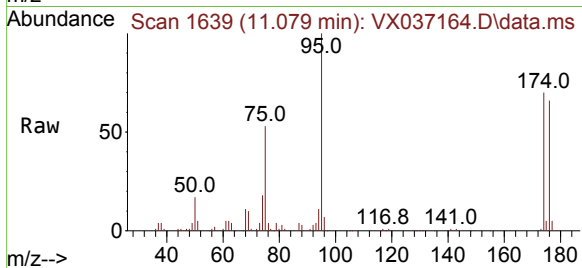




#81
trans-1,4-Dichloro-2-butene
Concen: 72.219 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

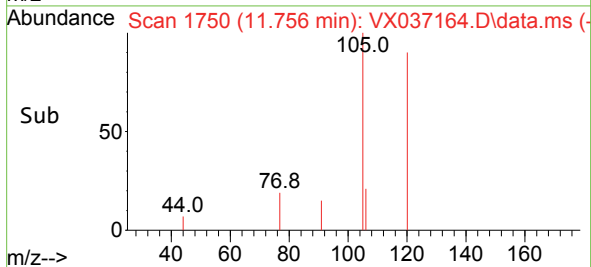
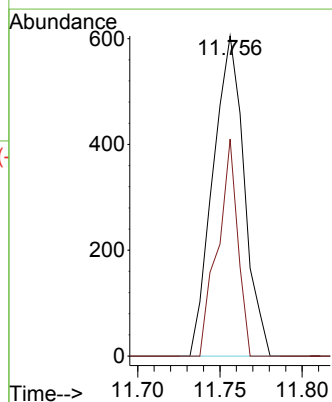
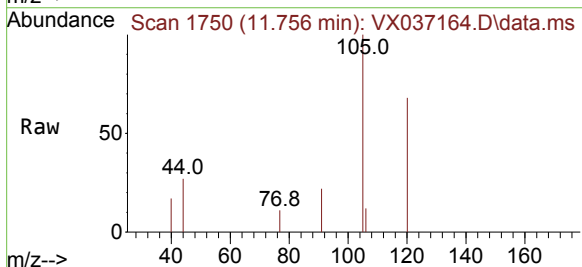
Instrument :
MSVOA_X
ClientSampleId :

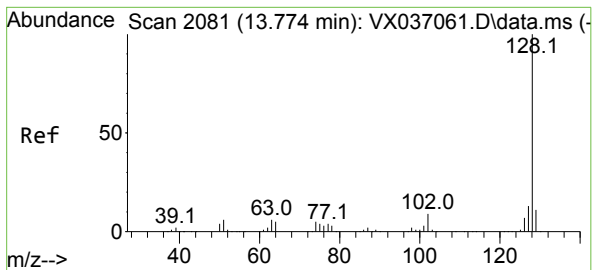
Tgt Ion: 75 Resp: 23325
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 36.9 55.3#



#84
1,2,4-Trimethylbenzene
Concen: 0.308 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

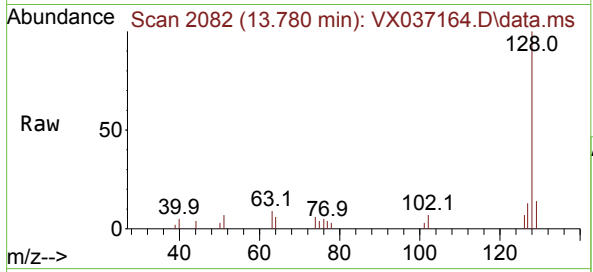
Tgt Ion: 105 Resp: 799
Ion Ratio Lower Upper
105 100
120 43.4 21.2 63.6





#95
Naphthalene
Concen: 1.198 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX037164.D
Acq: 22 Aug 2023 20:04

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:	128	Resp:	4233
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	9.8	8.8	13.2

