

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072822\
 Data File : VX030273.D
 Acq On : 28 Jul 2022 16:34
 Operator : JC/MD
 Sample : N3898-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 62422

Quant Time: Jul 29 05:58:16 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072522W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 25 16:49:17 2022
 Response via : Initial Calibration

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

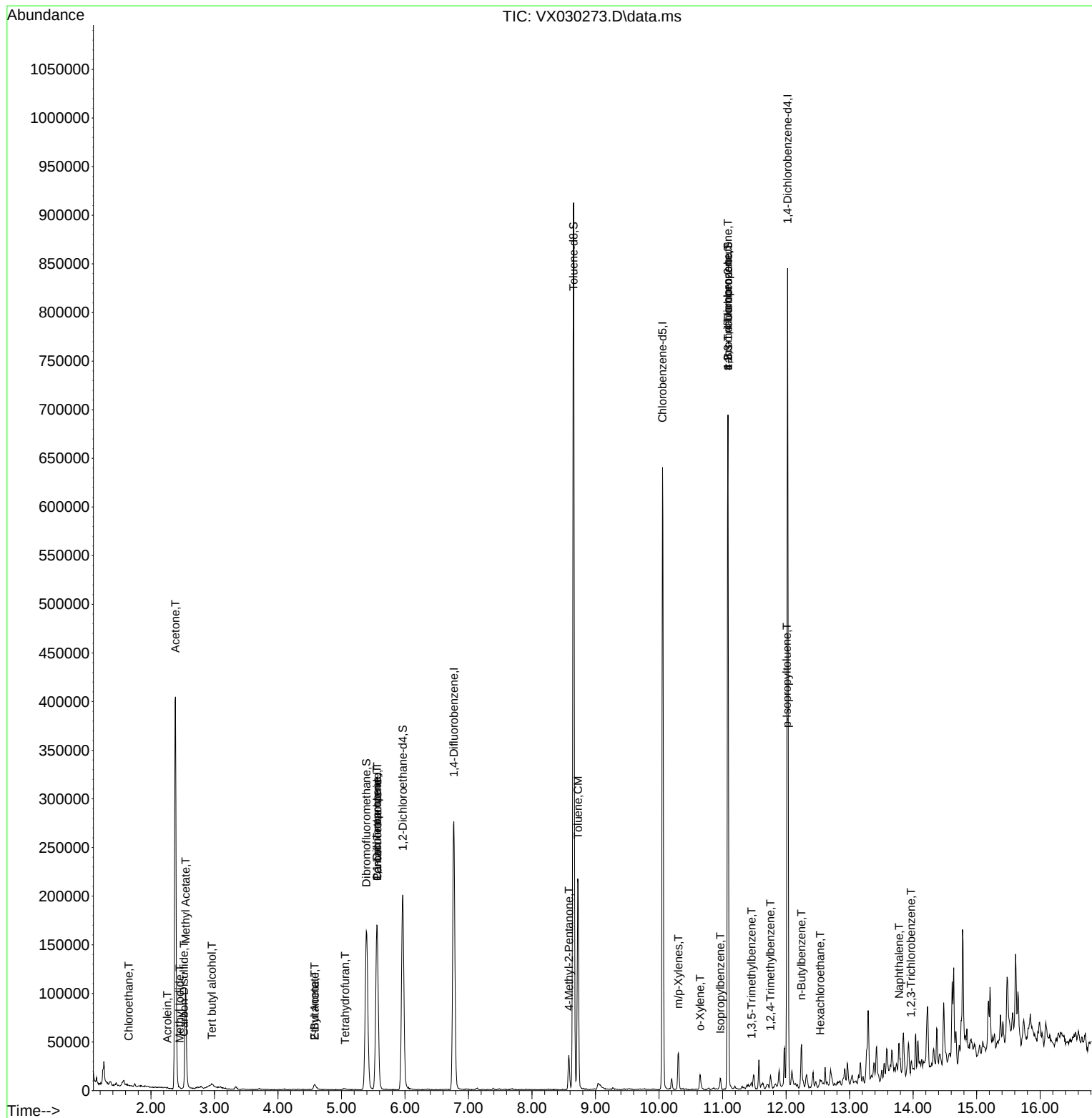
Internal Standards						
1) Pentafluorobenzene	5.562	168	158789	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	281355	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	282755	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	154450	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	185214	58.032	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 116.060%			
35) Dibromofluoromethane	5.391	113	148245	55.118	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.240%			
50) Toluene-d8	8.653	98	525785	50.479	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.960%			
62) 4-Bromofluorobenzene	11.085	95	188532	48.772	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 97.540%			
Target Compounds					Qvalue	
5) Bromomethane	1.611	94	652	Below Cal	#	70
6) Chloroethane	1.648	64	441	0.295	ug/l #	41
10) Methyl Iodide	2.453	142	602	1.761	ug/l #	59
11) Tert butyl alcohol	2.959	59	2905	3.731	ug/l #	91
13) Acrolein	2.258	56	47	0.246	ug/l #	14
16) Acetone	2.386	43	426323	260.908	ug/l	95
17) Carbon Disulfide	2.520	76	1745	0.261	ug/l #	91
18) Methyl Acetate	2.544	43	25176	5.209	ug/l #	51
20) Methylene Chloride	2.788	84	979	Below Cal	#	83
25) 2-Butanone	4.574	43	8765	3.192	ug/l	96
29) Tetrahydrofuran	5.056	42	387	0.209	ug/l #	32
36) 1,1-Dichloropropene	5.556	75	13620	3.519	ug/l #	48
37) Ethyl Acetate	4.574	43	8765	1.599	ug/l #	67
38) Carbon Tetrachloride	5.562	117	16535	4.576	ug/l #	17
51) 4-Methyl-2-Pentanone	8.580	43	22848	4.188	ug/l	96
52) Toluene	8.726	92	81520	10.972	ug/l	99
67) Ethyl Benzene	10.201	91	6878	Below Cal		97
68) m/p-Xylenes	10.305	106	9530	1.832	ug/l	100
69) o-Xylene	10.646	106	3119	0.608	ug/l	96
73) Isopropylbenzene	10.963	105	5545	0.460	ug/l	98
76) 1,2,3-Trichloropropane	11.085	75	93224	22.898	ug/l #	38
80) 1,3,5-Trimethylbenzene	11.457	105	2193	0.217	ug/l	95
81) trans-1,4-Dichloro-2-b...	11.085	75	93224	68.693	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.756	105	5304	0.527	ug/l	99
86) p-Isopropyltoluene	12.012	119	33542	3.273	ug/l	96
89) n-Butylbenzene	12.244	91	6063	0.636	ug/l	78
90) Hexachloroethane	12.536	117	490	0.278	ug/l #	16
95) Naphthalene	13.780	128	19396	1.585	ug/l #	91
96) 1,2,3-Trichlorobenzene	13.969	180	743	0.231	ug/l #	1

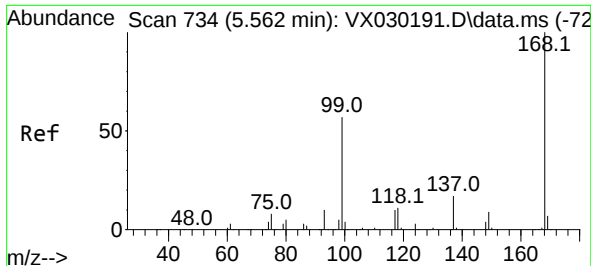
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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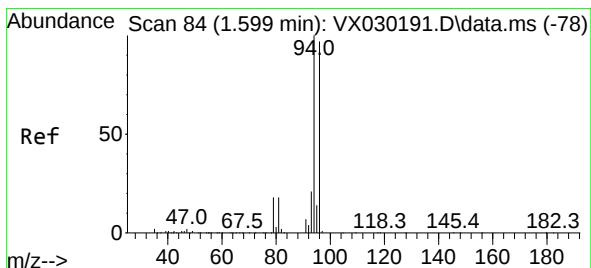
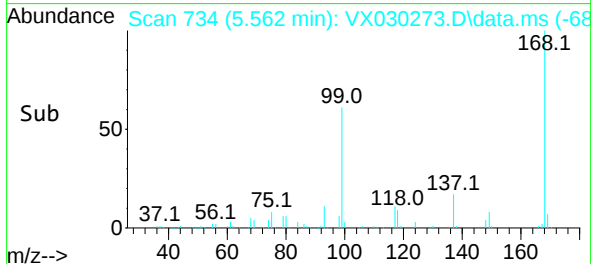
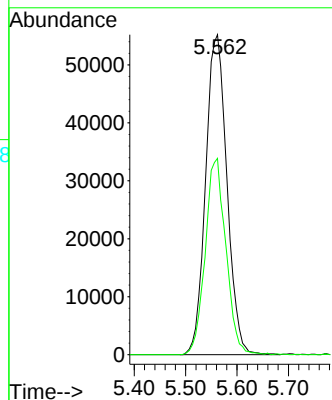
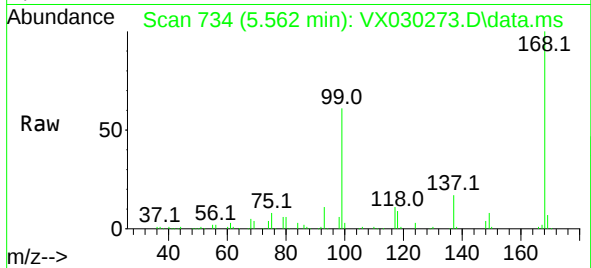




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX030273.D
Acq: 28 Jul 2022 16:34

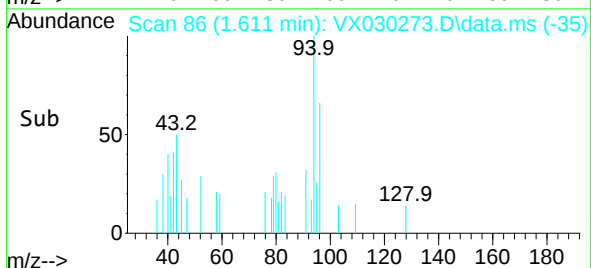
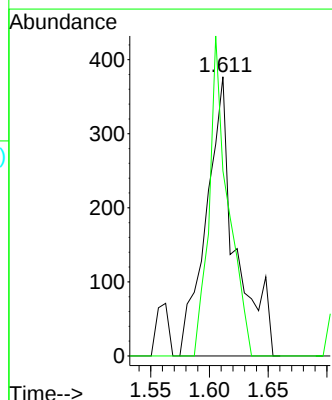
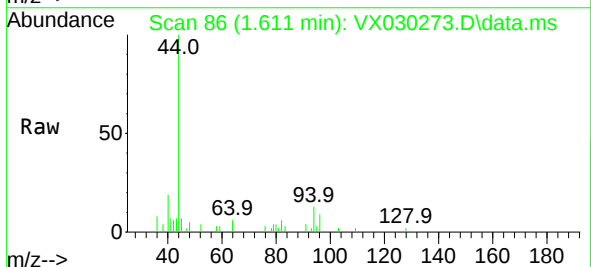
Instrument :
MSVOA_X
ClientSampleId :
62422

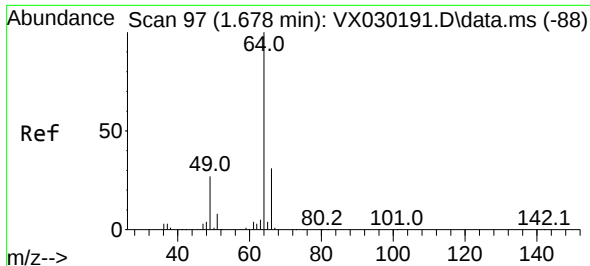
Tgt Ion:168 Resp: 158789
Ion Ratio Lower Upper
168 100
99 61.3 44.0 66.0



#5
Bromomethane
Concen: Below Cal
RT: 1.611 min Scan# 86
Delta R.T. 0.012 min
Lab File: VX030273.D
Acq: 28 Jul 2022 16:34

Tgt Ion: 94 Resp: 652
Ion Ratio Lower Upper
94 100
96 66.3 76.9 115.3#

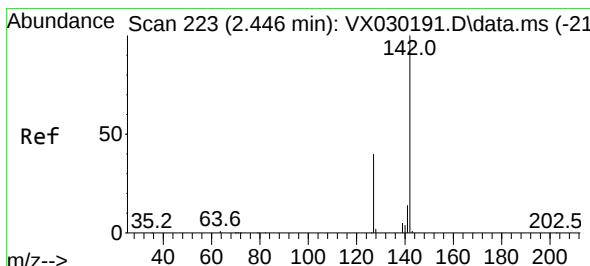
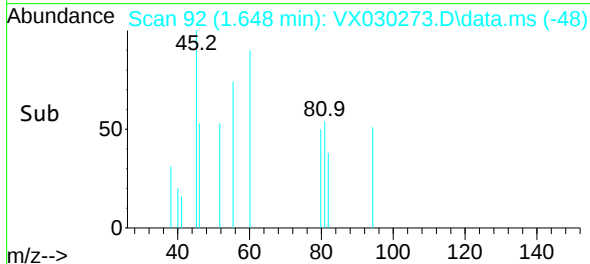
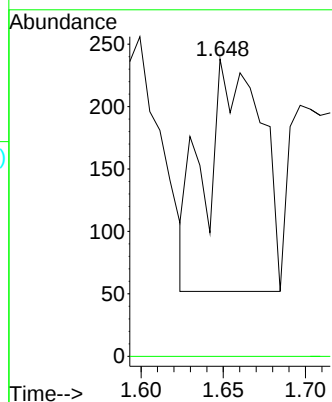
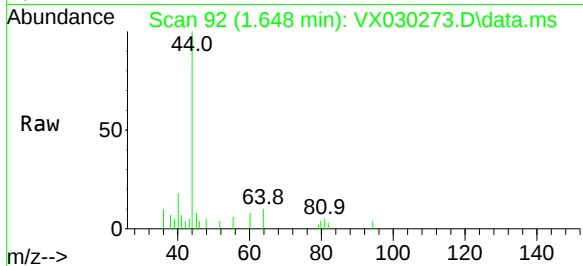




#6
Chloroethane
Concen: 0.295 ug/l
RT: 1.648 min Scan# 91
Delta R.T. -0.030 min
Lab File: VX030273.D
Acq: 28 Jul 2022 16:34

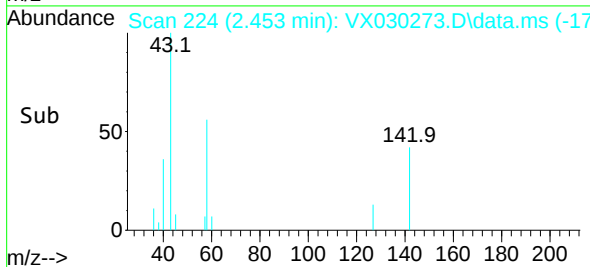
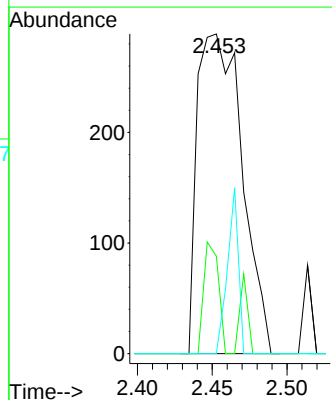
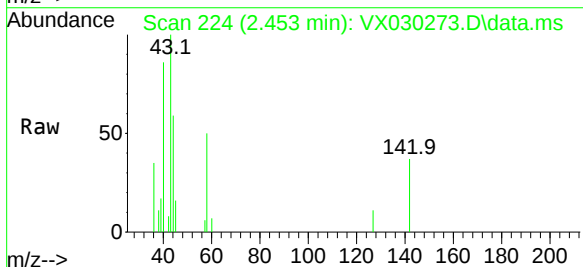
Instrument :
MSVOA_X
ClientSampleId :
62422

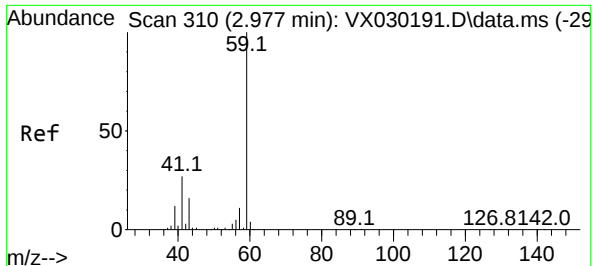
Tgt Ion: 64 Resp: 441
Ion Ratio Lower Upper
64 100
66 0.0 27.2 40.8#



#10
Methyl Iodide
Concen: 1.761 ug/l
RT: 2.453 min Scan# 224
Delta R.T. 0.007 min
Lab File: VX030273.D
Acq: 28 Jul 2022 16:34

Tgt Ion: 142 Resp: 602
Ion Ratio Lower Upper
142 100
127 11.5 30.2 45.2#
141 0.0 11.3 16.9#





#11

Tert butyl alcohol

Concen: 3.731 ug/l

RT: 2.959 min Scan# 307

Delta R.T. -0.018 min

Lab File: VX030273.D

Acq: 28 Jul 2022 16:34

Instrument :

MSVOA_X

ClientSampleId :

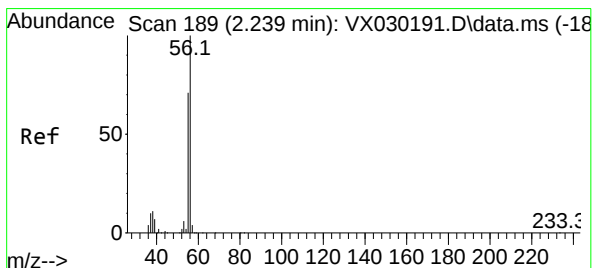
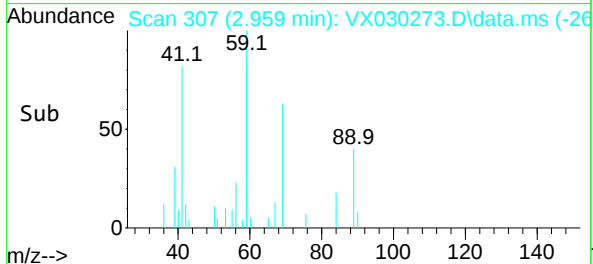
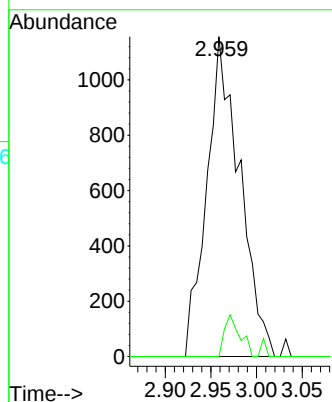
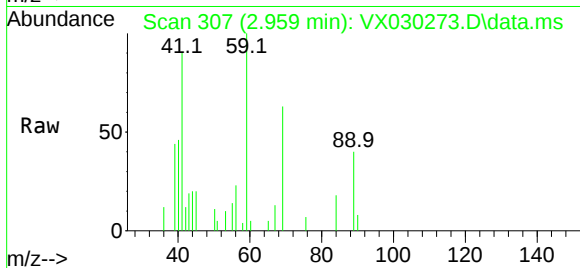
62422

Tgt Ion: 59 Resp: 2905

Ion Ratio Lower Upper

59 100

57 6.1 7.4 11.2#



#13

Acrolein

Concen: 0.246 ug/l

RT: 2.258 min Scan# 192

Delta R.T. 0.019 min

Lab File: VX030273.D

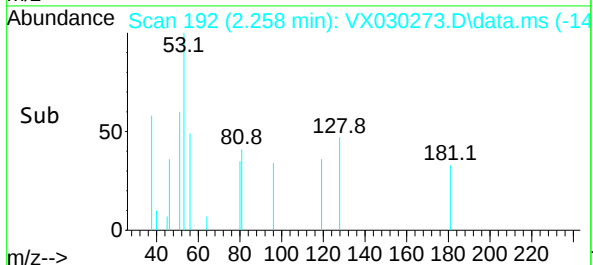
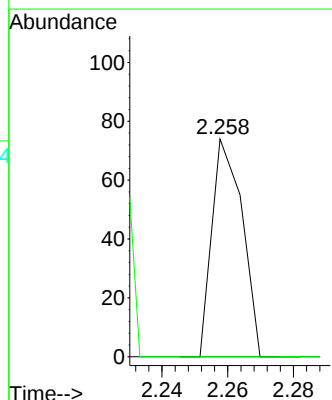
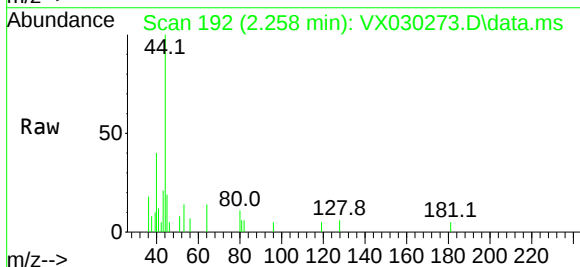
Acq: 28 Jul 2022 16:34

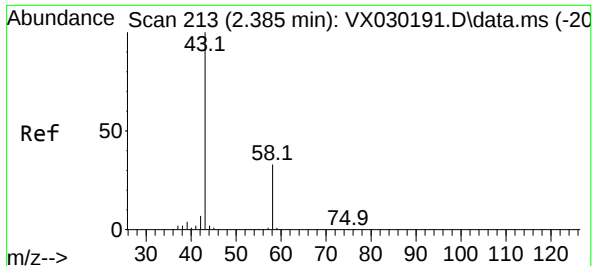
Tgt Ion: 56 Resp: 47

Ion Ratio Lower Upper

56 100

55 0.0 56.6 84.8#

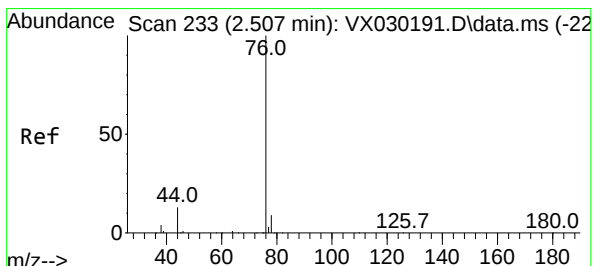
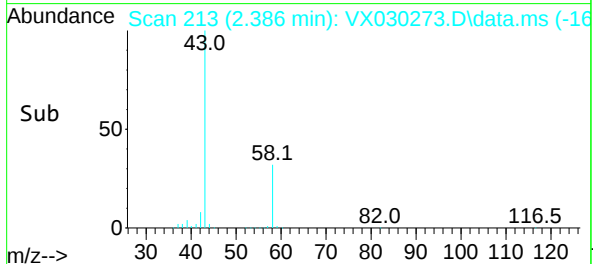
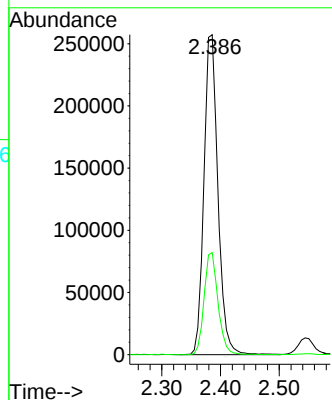
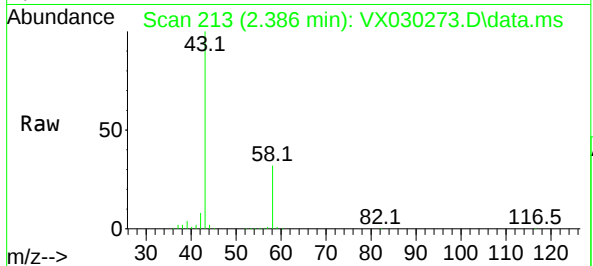




#16
Acetone
Concen: 260.908 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.001 min
Lab File: VX030273.D
Acq: 28 Jul 2022 16:34

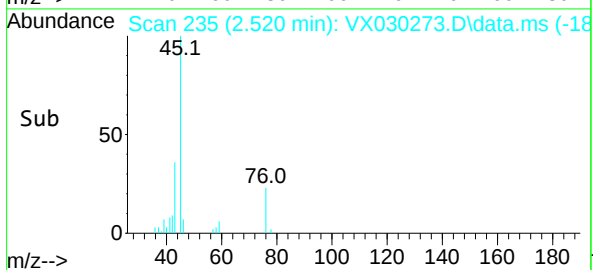
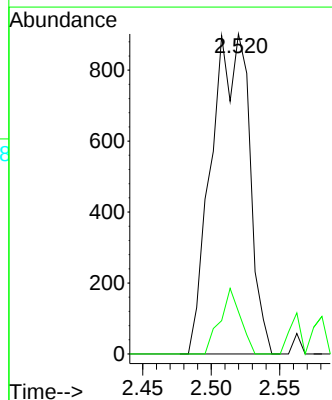
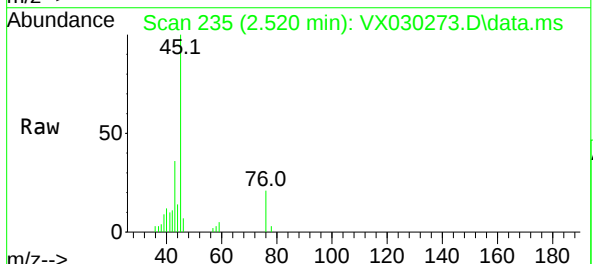
Instrument :
MSVOA_X
ClientSampleId :
62422

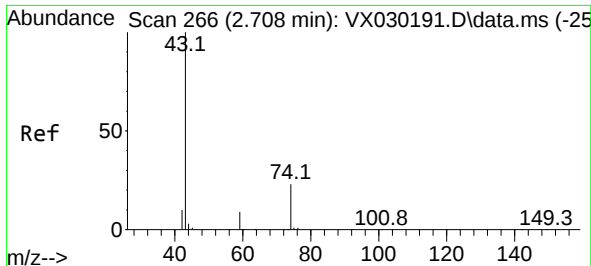
Tgt Ion: 43 Resp: 426323
Ion Ratio Lower Upper
43 100
58 31.9 27.7 41.5



#17
Carbon Disulfide
Concen: 0.261 ug/l
RT: 2.520 min Scan# 235
Delta R.T. 0.013 min
Lab File: VX030273.D
Acq: 28 Jul 2022 16:34

Tgt Ion: 76 Resp: 1745
Ion Ratio Lower Upper
76 100
78 13.2 7.8 11.6#





#18

Methyl Acetate

Concen: 5.209 ug/l

RT: 2.544 min Scan# 21

Delta R.T. -0.164 min

Lab File: VX030273.D

Acq: 28 Jul 2022 16:34

Instrument :

MSVOA_X

ClientSampleId :

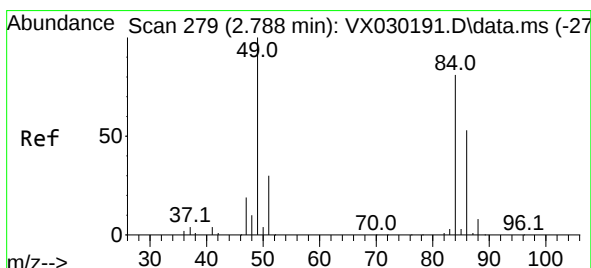
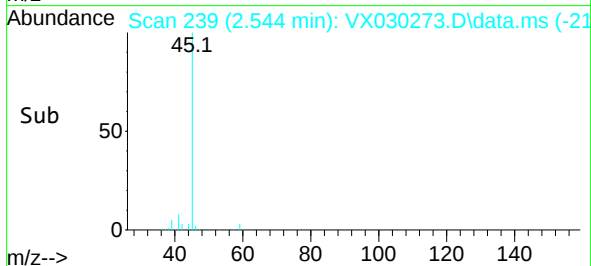
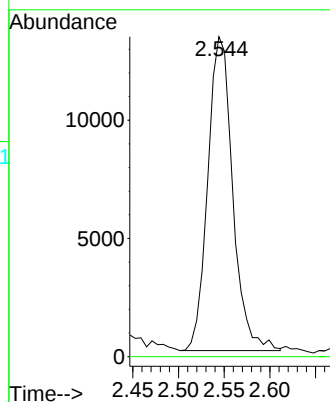
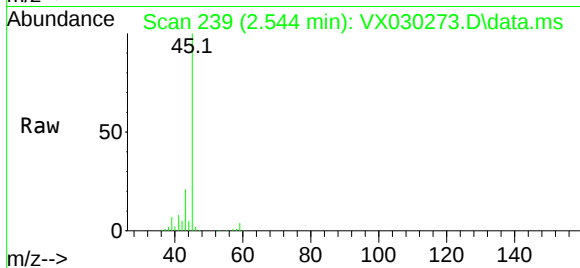
62422

Tgt Ion: 43 Resp: 25176

Ion Ratio Lower Upper

43 100

74 0.0 19.4 29.2#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX030273.D

Acq: 28 Jul 2022 16:34

Tgt Ion: 84 Resp: 979

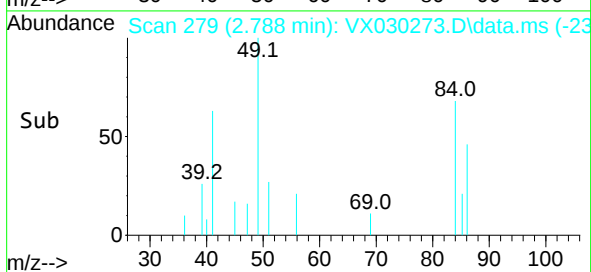
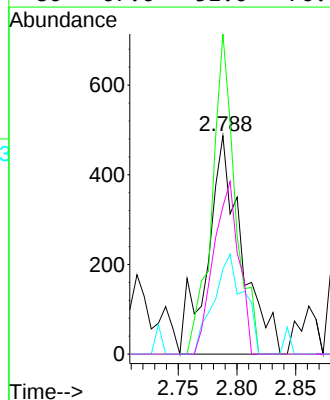
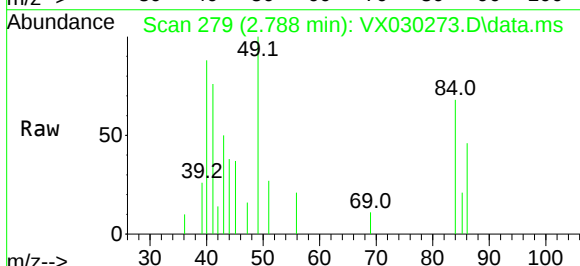
Ion Ratio Lower Upper

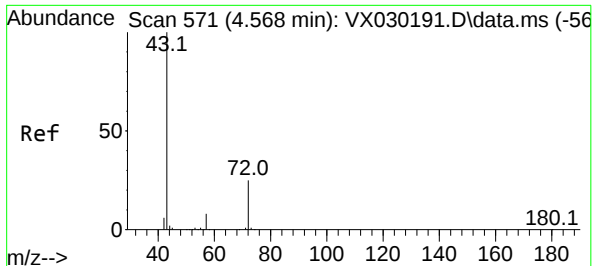
84 100

49 146.6 93.8 140.6#

51 39.0 29.4 44.0

86 67.6 51.0 76.4





#25

2-Butanone

Concen: 3.192 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX030273.D

Acq: 28 Jul 2022 16:34

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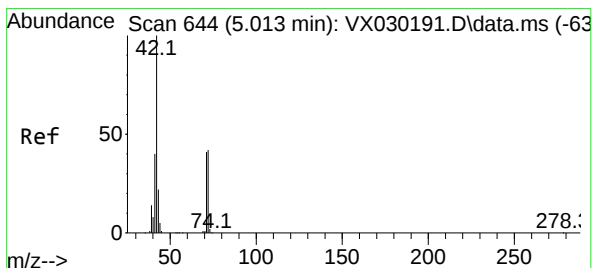
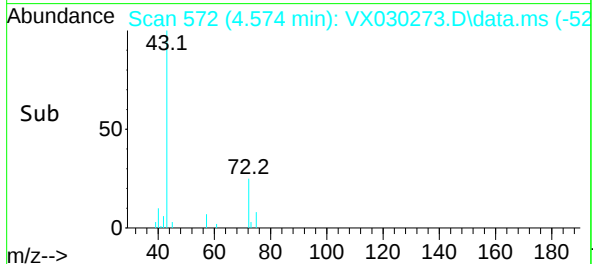
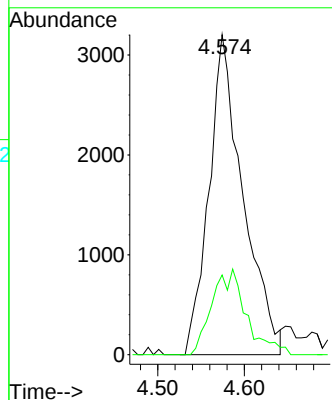
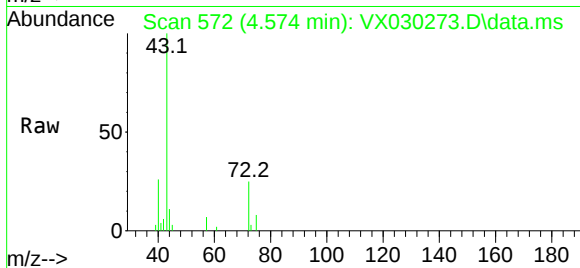
62422

Tgt Ion: 43 Resp: 8765

Ion Ratio Lower Upper

43 100

72 24.9 21.7 32.5



#29

Tetrahydrofuran

Concen: 0.209 ug/l

RT: 5.056 min Scan# 651

Delta R.T. 0.043 min

Lab File: VX030273.D

Acq: 28 Jul 2022 16:34

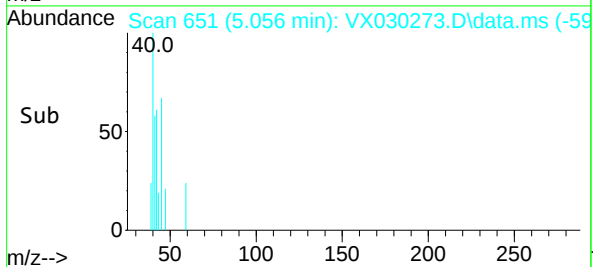
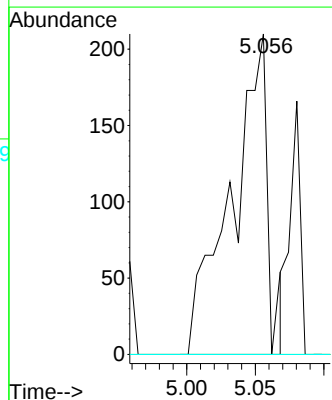
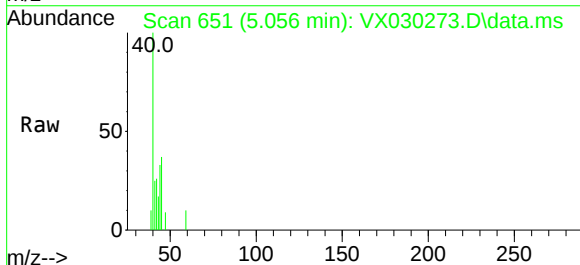
Tgt Ion: 42 Resp: 387

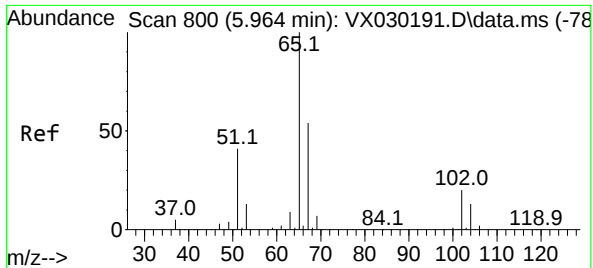
Ion Ratio Lower Upper

42 100

72 0.0 36.5 54.7#

71 0.0 33.9 50.9#





#33

1,2-Dichloroethane-d4

Concen: 58.032 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX030273.D

Acq: 28 Jul 2022 16:34

Instrument :

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ClientSampleId :

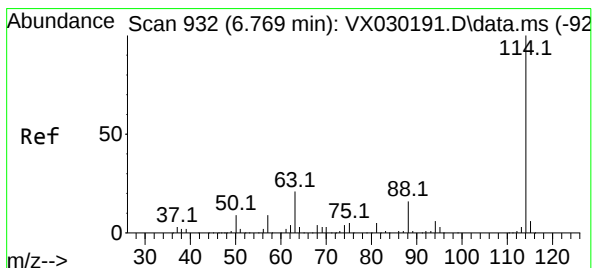
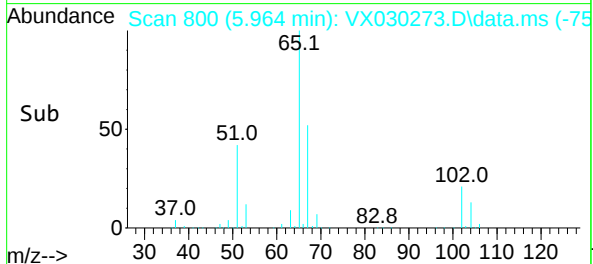
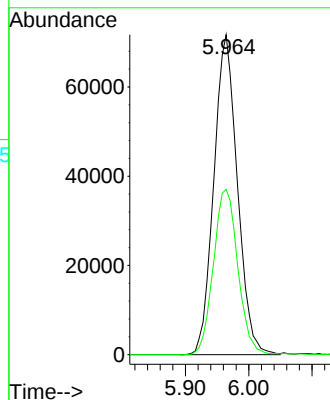
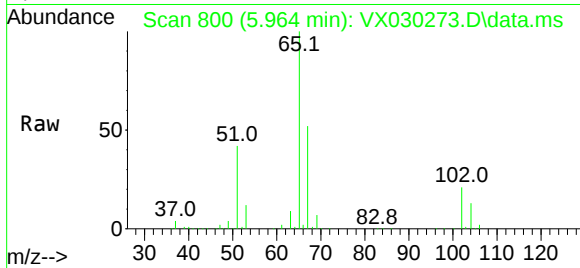
62422

Tgt Ion: 65 Resp: 185214

Ion Ratio Lower Upper

65 100

67 53.6 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX030273.D

Acq: 28 Jul 2022 16:34

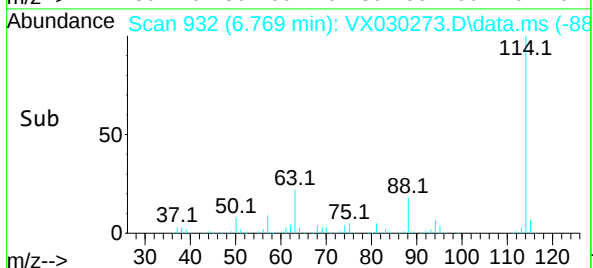
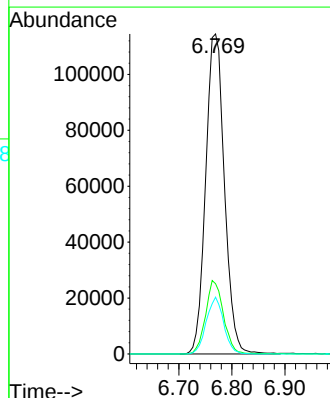
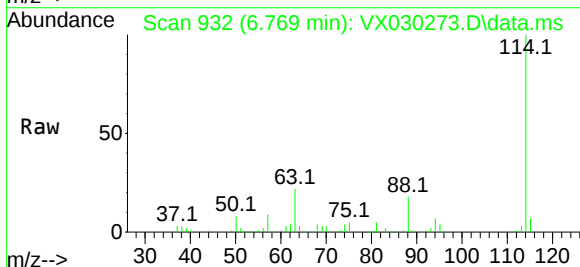
Tgt Ion: 114 Resp: 281355

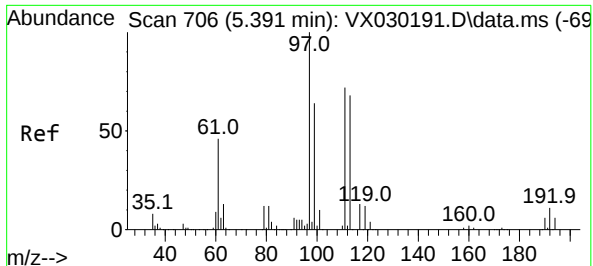
Ion Ratio Lower Upper

114 100

63 21.9 0.0 38.4

88 17.8 0.0 31.8





#35

Dibromofluoromethane

Concen: 55.118 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.000 min

Lab File: VX030273.D

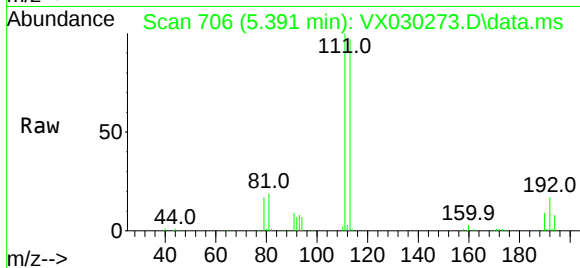
Acq: 28 Jul 2022 16:34

Instrument :

MSVOA_X

ClientSampleId :

62422



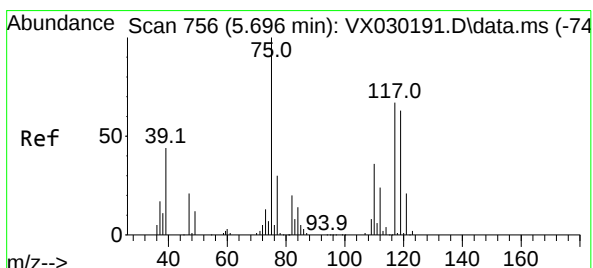
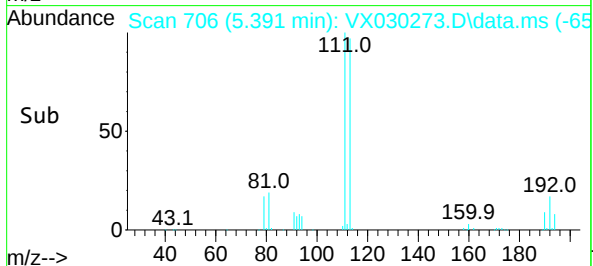
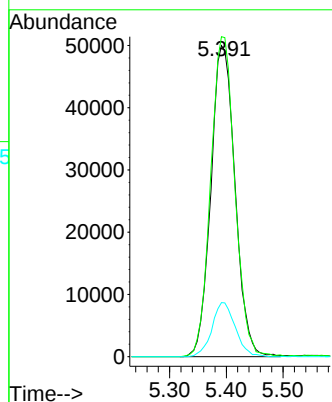
Tgt Ion:113 Resp: 148245

Ion Ratio Lower Upper

113 100

111 102.6 83.2 124.8

192 16.8 14.8 22.2



#36

1,1-Dichloropropene

Concen: 3.519 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX030273.D

Acq: 28 Jul 2022 16:34

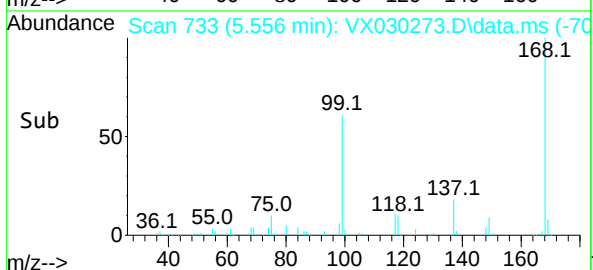
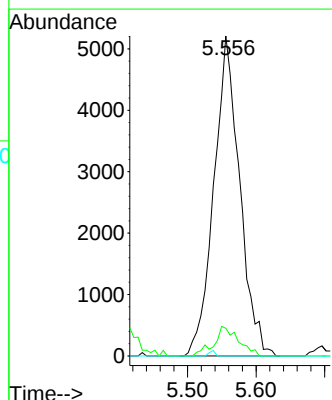
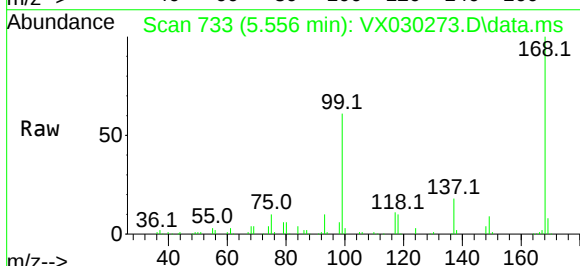
Tgt Ion: 75 Resp: 13620

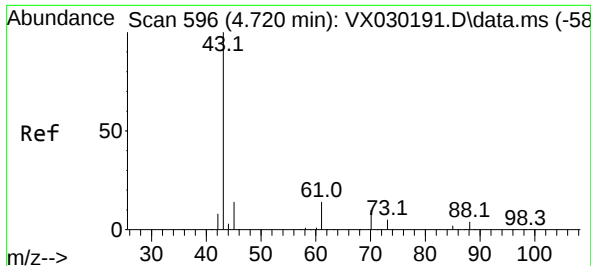
Ion Ratio Lower Upper

75 100

110 8.7 19.3 57.9#

77 0.4 24.4 36.6#





#37

Ethyl Acetate

Concen: 1.599 ug/l

RT: 4.574 min Scan# 51

Delta R.T. -0.146 min

Lab File: VX030273.D

Acq: 28 Jul 2022 16:34

Instrument :

MSVOA_X

ClientSampleId :

62422

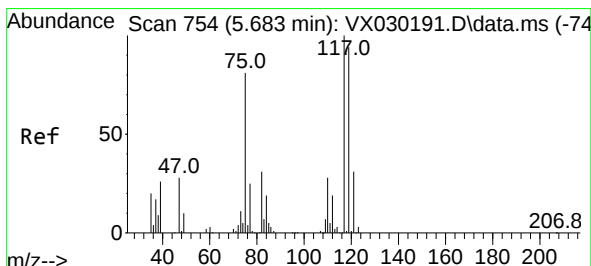
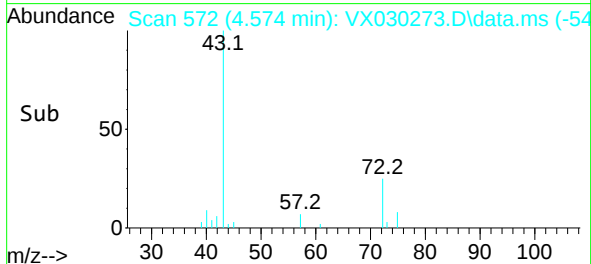
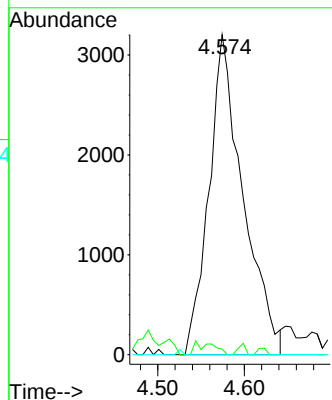
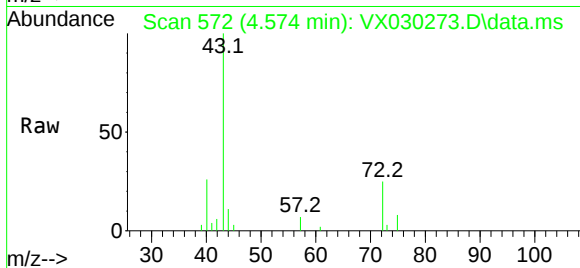
Tgt Ion: 43 Resp: 8765

Ion Ratio Lower Upper

43 100

61 0.0 11.7 17.5#

70 0.0 9.3 13.9#



#38

Carbon Tetrachloride

Concen: 4.576 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.121 min

Lab File: VX030273.D

Acq: 28 Jul 2022 16:34

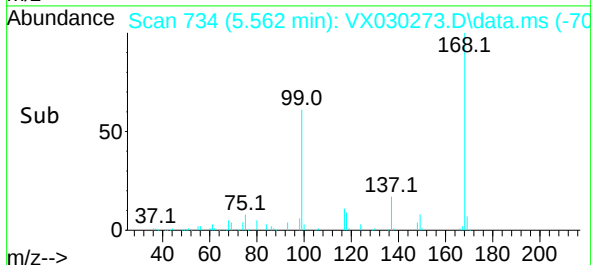
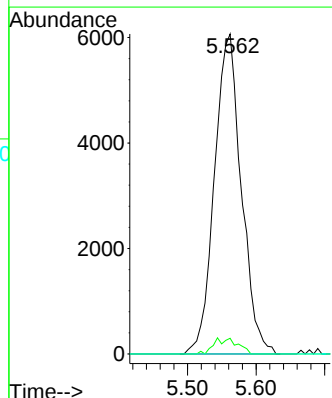
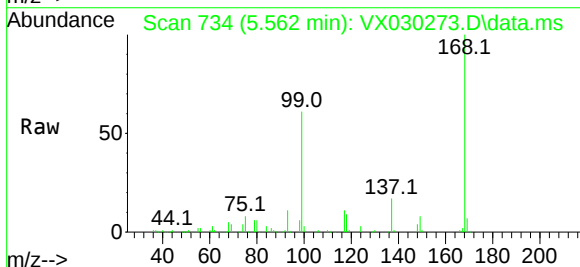
Tgt Ion: 117 Resp: 16535

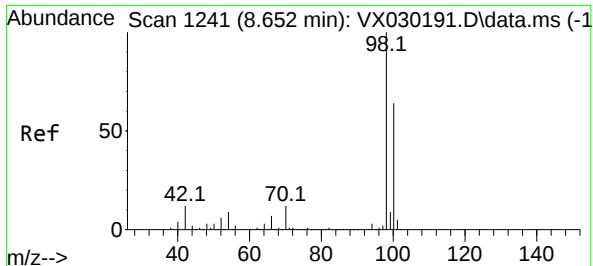
Ion Ratio Lower Upper

117 100

119 4.9 74.1 111.1#

121 0.0 25.8 38.8#





#50

Toluene-d8

Concen: 50.479 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.001 min

Lab File: VX030273.D

Acq: 28 Jul 2022 16:34

Instrument :

MSVOA_X

ClientSampleId :

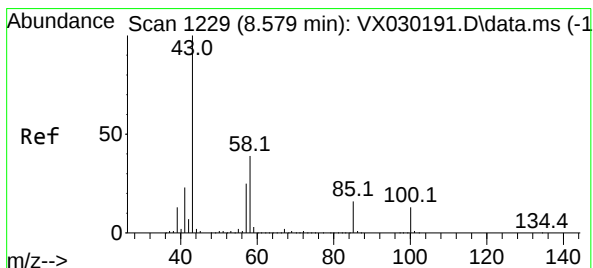
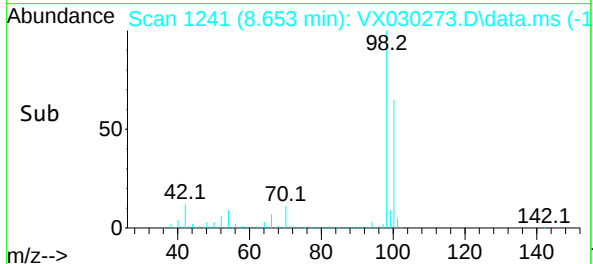
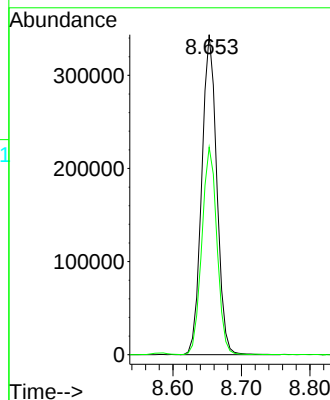
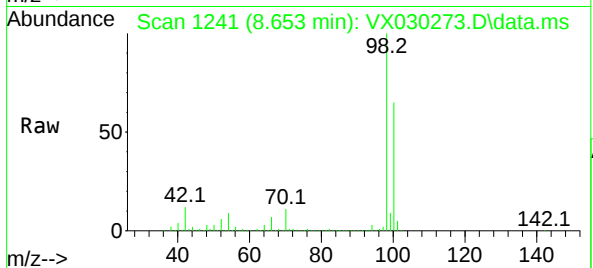
62422

Tgt Ion: 98 Resp: 525785

Ion Ratio Lower Upper

98 100

100 64.9 52.3 78.5



#51

4-Methyl-2-Pentanone

Concen: 4.188 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.001 min

Lab File: VX030273.D

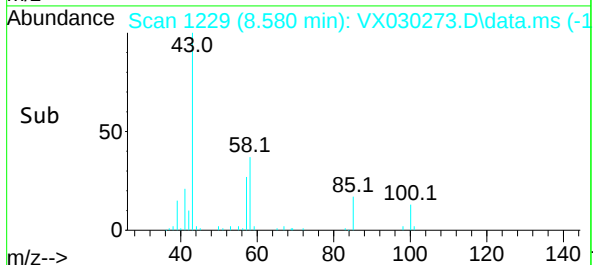
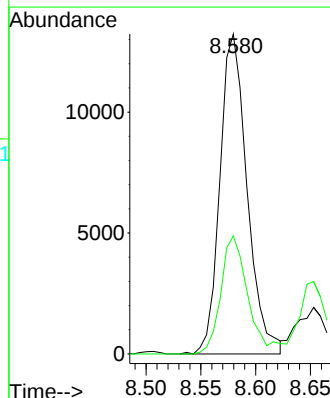
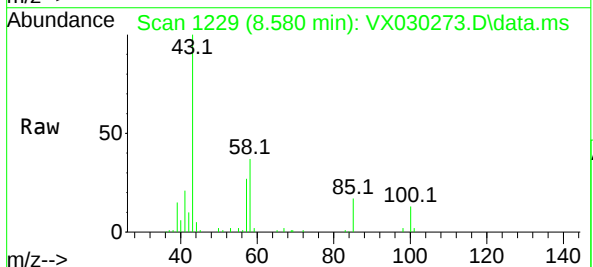
Acq: 28 Jul 2022 16:34

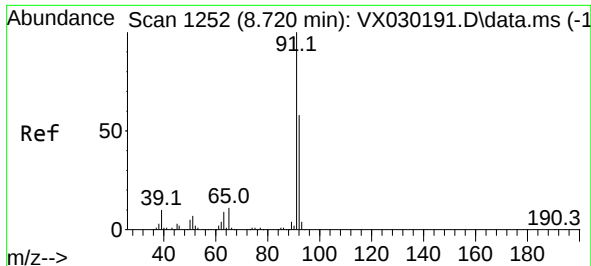
Tgt Ion: 43 Resp: 22848

Ion Ratio Lower Upper

43 100

58 36.8 31.4 47.2

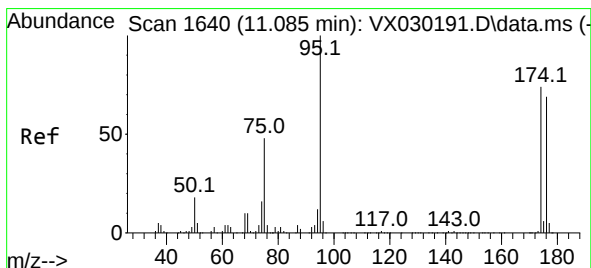
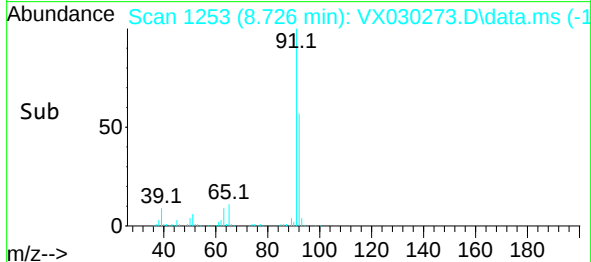
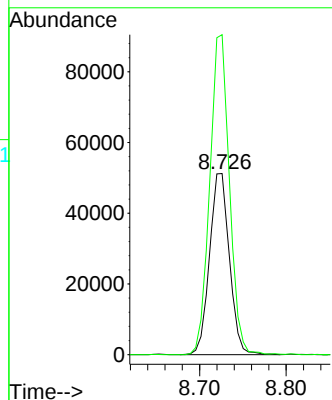
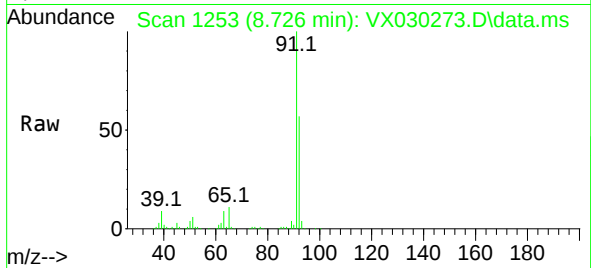




#52
Toluene
Concen: 10.972 ug/l
RT: 8.726 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX030273.D
Acq: 28 Jul 2022 16:34

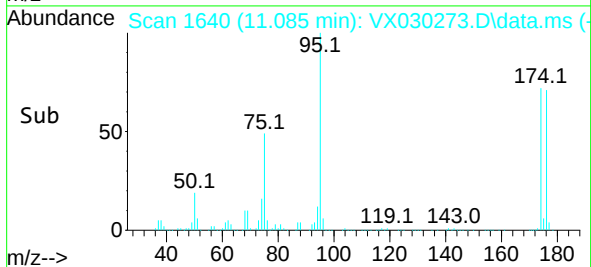
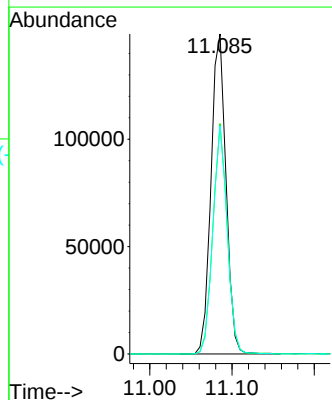
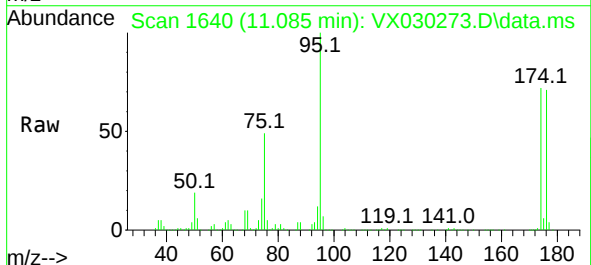
Instrument :
MSVOA_X
ClientSampleId :
62422

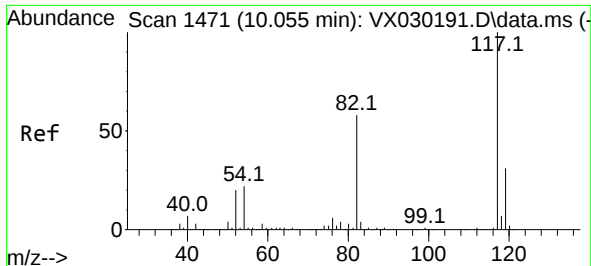
Tgt Ion: 92 Resp: 81520
Ion Ratio Lower Upper
92 100
91 175.1 139.2 208.8



#62
4-Bromofluorobenzene
Concen: 48.772 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.000 min
Lab File: VX030273.D
Acq: 28 Jul 2022 16:34

Tgt Ion: 95 Resp: 188532
Ion Ratio Lower Upper
95 100
174 69.0 0.0 149.0
176 68.6 0.0 146.0

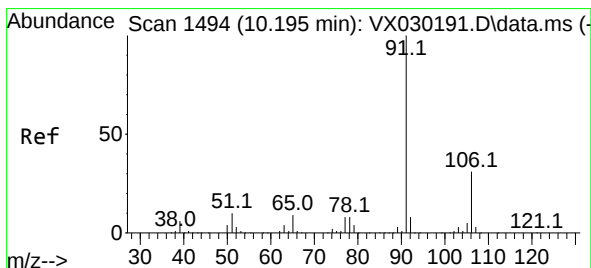
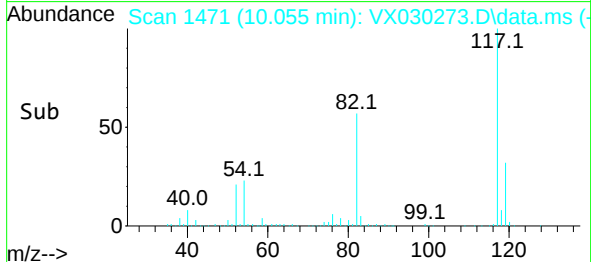
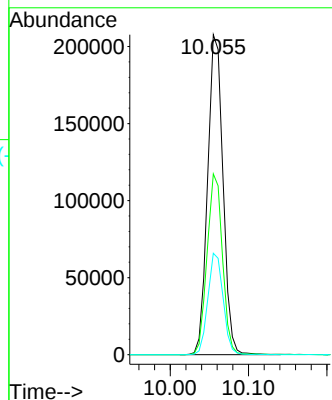
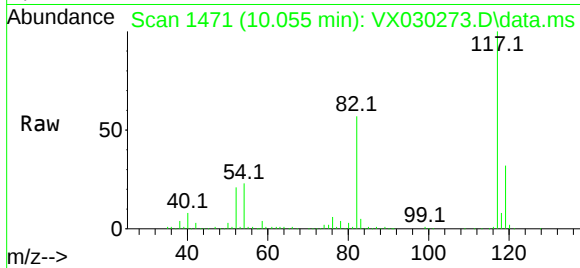




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX030273.D
Acq: 28 Jul 2022 16:34

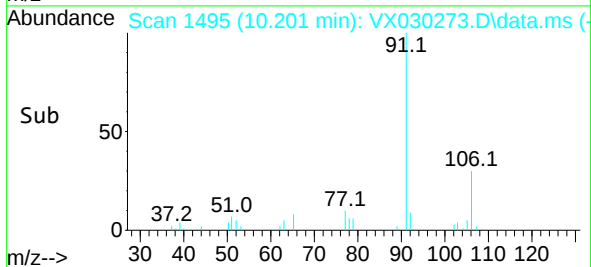
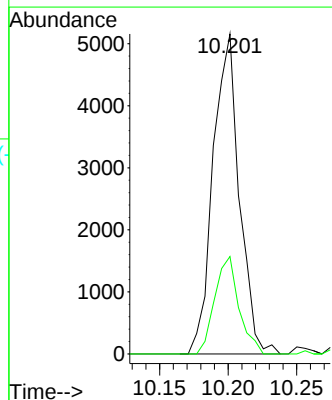
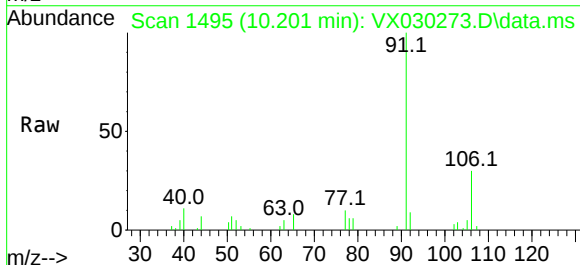
Instrument :
MSVOA_X
ClientSampleId :
62422

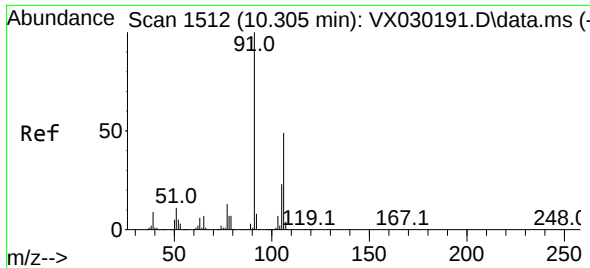
Tgt Ion:117 Resp: 282755
Ion Ratio Lower Upper
117 100
82 56.5 42.7 64.1
119 31.7 25.4 38.2



#67
Ethyl Benzene
Concen: Below Cal
RT: 10.201 min Scan# 1495
Delta R.T. 0.006 min
Lab File: VX030273.D
Acq: 28 Jul 2022 16:34

Tgt Ion: 91 Resp: 6878
Ion Ratio Lower Upper
91 100
106 30.4 25.5 38.3

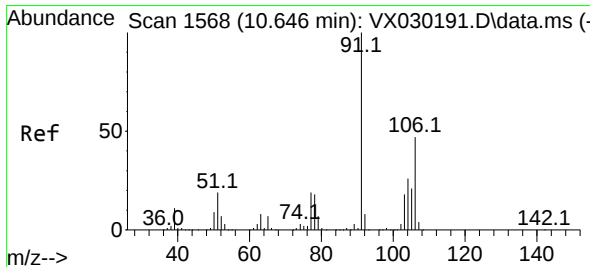
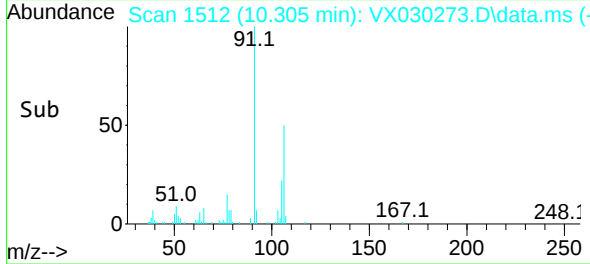
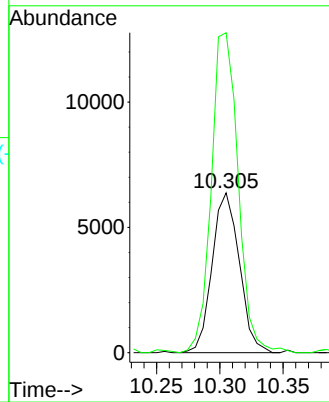
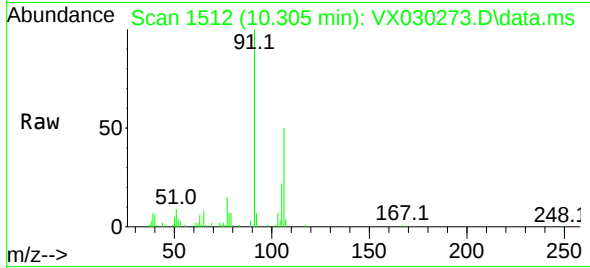




#68
m/p-Xylenes
Concen: 1.832 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. -0.000 min
Lab File: VX030273.D
Acq: 28 Jul 2022 16:34

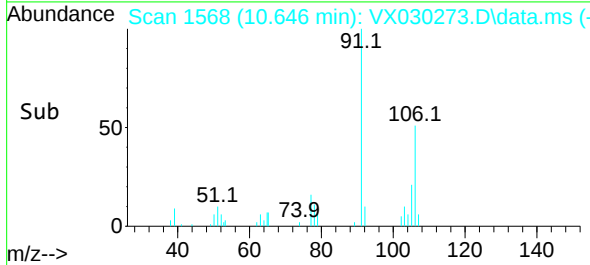
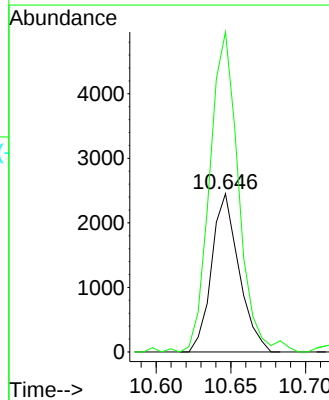
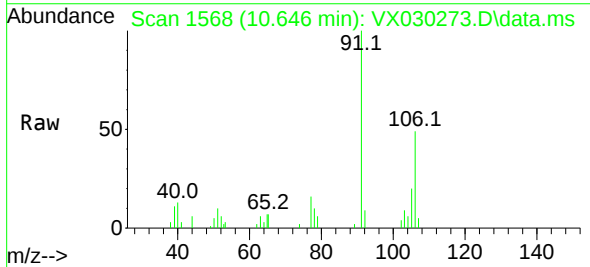
Instrument :
MSVOA_X
ClientSampleId :
62422

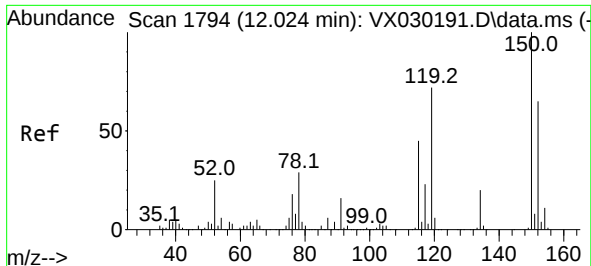
Tgt Ion:106 Resp: 9530
Ion Ratio Lower Upper
106 100
91 198.0 158.2 237.4



#69
o-Xylene
Concen: 0.608 ug/l
RT: 10.646 min Scan# 1568
Delta R.T. 0.000 min
Lab File: VX030273.D
Acq: 28 Jul 2022 16:34

Tgt Ion:106 Resp: 3119
Ion Ratio Lower Upper
106 100
91 213.3 103.8 311.6

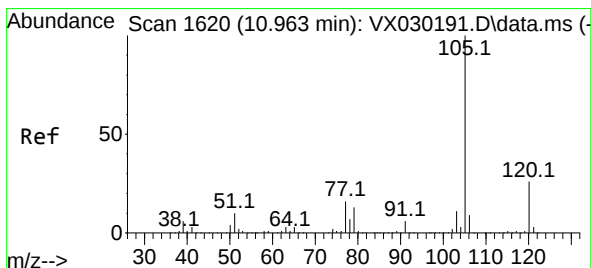
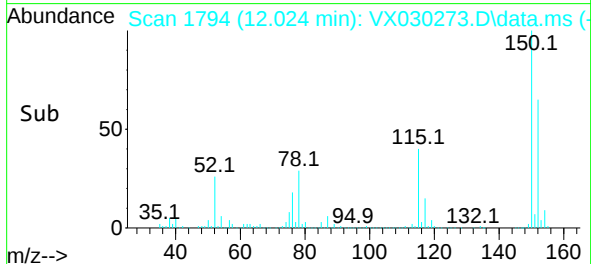
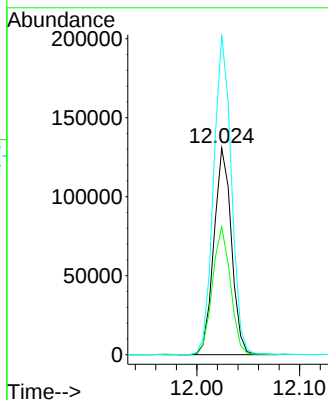
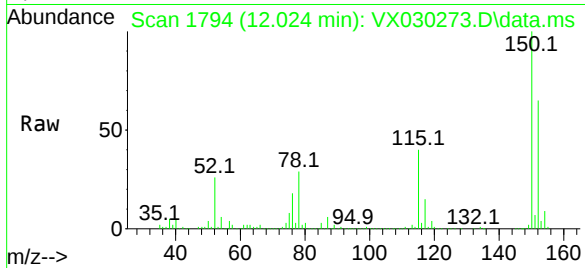




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX030273.D
Acq: 28 Jul 2022 16:34

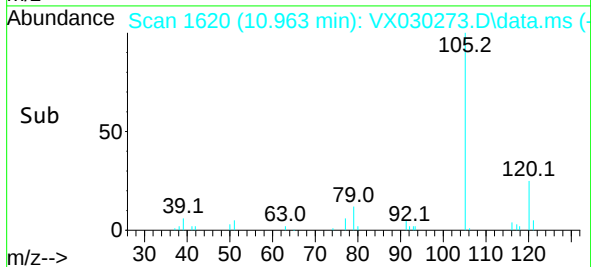
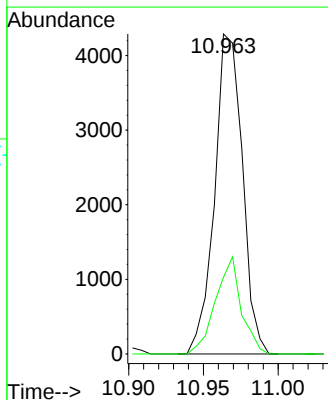
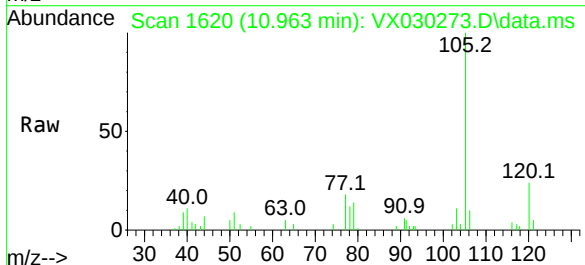
Instrument :
MSVOA_X
ClientSampleId :
62422

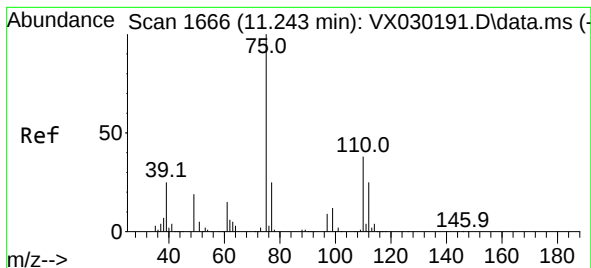
Tgt Ion:152 Resp: 154450
Ion Ratio Lower Upper
152 100
115 63.3 40.5 121.5
150 156.5 0.0 347.0



#73
Isopropylbenzene
Concen: 0.460 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX030273.D
Acq: 28 Jul 2022 16:34

Tgt Ion:105 Resp: 5545
Ion Ratio Lower Upper
105 100
120 28.0 13.5 40.4





#76

1,2,3-Trichloropropane

Concen: 22.898 ug/l

RT: 11.085 min Scan# 1

Delta R.T. -0.158 min

Lab File: VX030273.D

Acq: 28 Jul 2022 16:34

Instrument :

MSVOA_X

ClientSampleId :

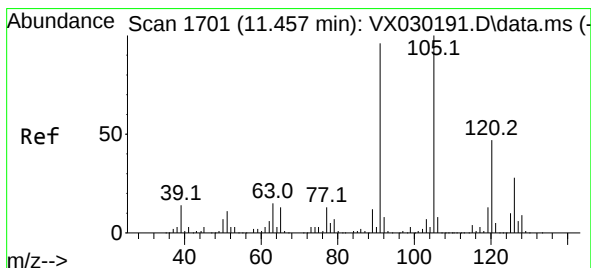
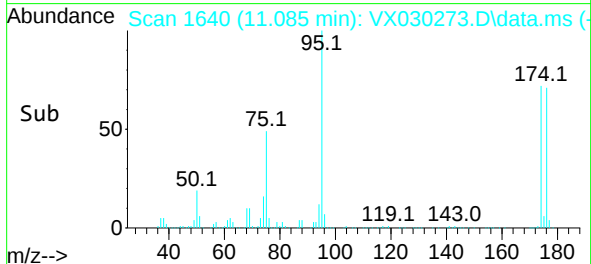
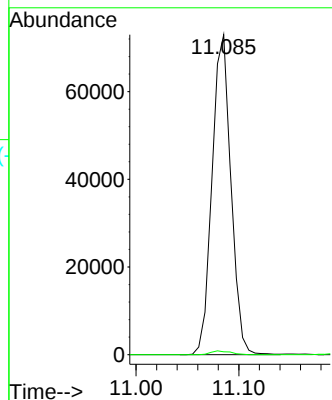
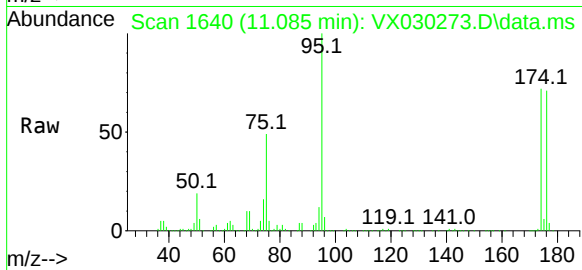
62422

Tgt Ion: 75 Resp: 93224

Ion Ratio Lower Upper

75 100

77 1.2 19.8 59.3#



#80

1,3,5-Trimethylbenzene

Concen: 0.217 ug/l

RT: 11.457 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VX030273.D

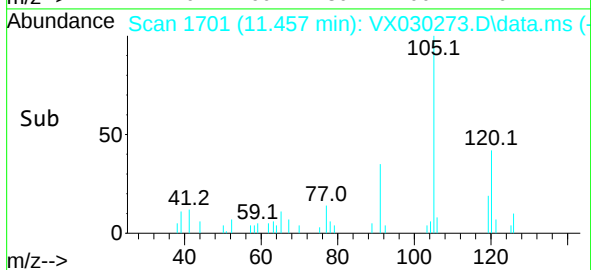
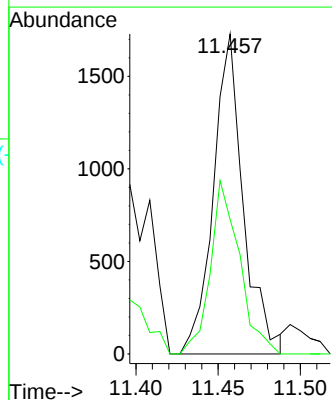
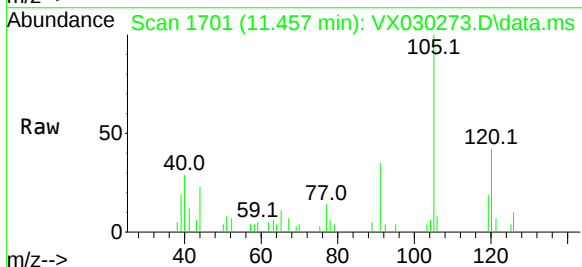
Acq: 28 Jul 2022 16:34

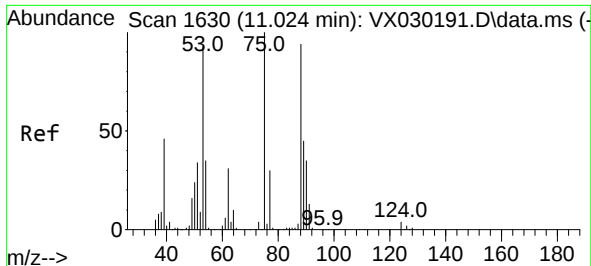
Tgt Ion: 105 Resp: 2193

Ion Ratio Lower Upper

105 100

120 52.5 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 68.693 ug/l

RT: 11.085 min Scan# 1

Delta R.T. 0.061 min

Lab File: VX030273.D

Acq: 28 Jul 2022 16:34

Instrument :

MSVOA_X

ClientSampleId :

62422

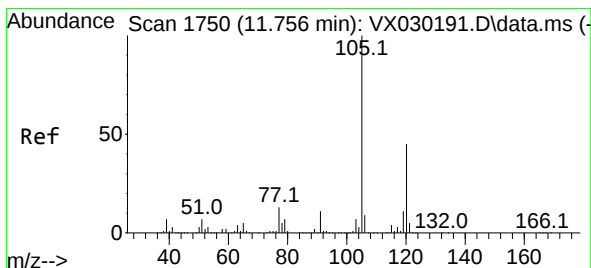
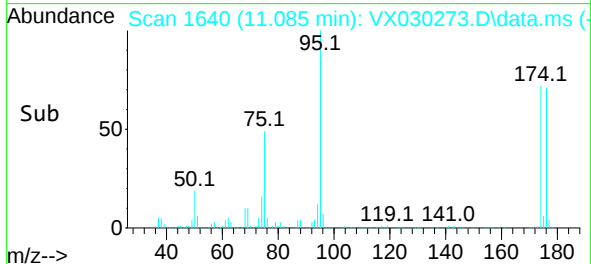
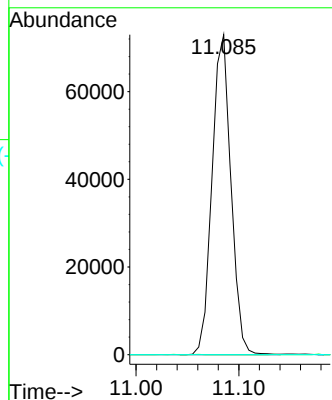
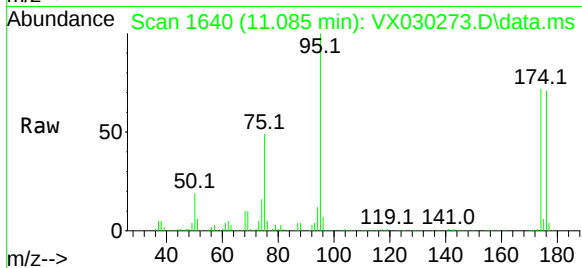
Tgt Ion: 75 Resp: 93224

Ion Ratio Lower Upper

75 100

53 0.0 74.2 111.4#

89 0.0 34.8 52.2#



#84

1,2,4-Trimethylbenzene

Concen: 0.527 ug/l

RT: 11.756 min Scan# 1750

Delta R.T. -0.000 min

Lab File: VX030273.D

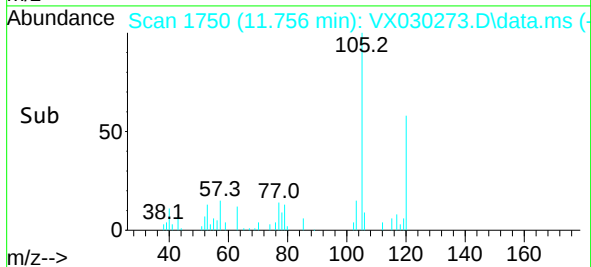
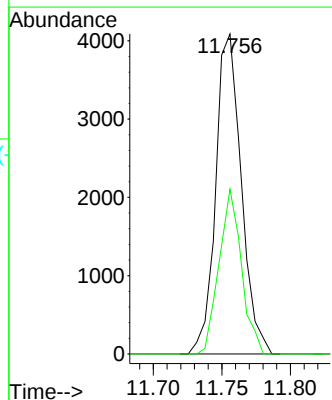
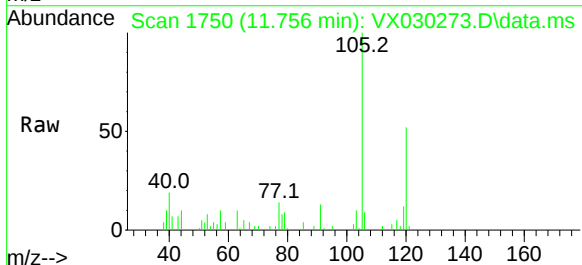
Acq: 28 Jul 2022 16:34

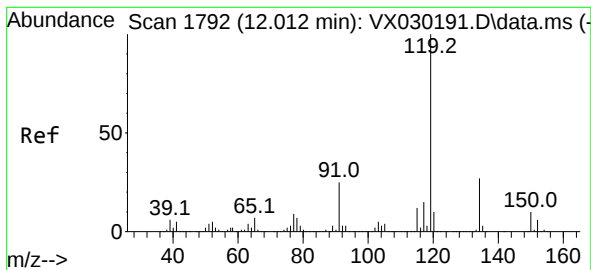
Tgt Ion: 105 Resp: 5304

Ion Ratio Lower Upper

105 100

120 45.0 22.9 68.8





#86

p-Isopropyltoluene

Concen: 3.273 ug/l

RT: 12.012 min Scan# 119

Delta R.T. -0.000 min

Lab File: VX030273.D

Acq: 28 Jul 2022 16:34

Instrument :

MSVOA_X

ClientSampleId :

62422

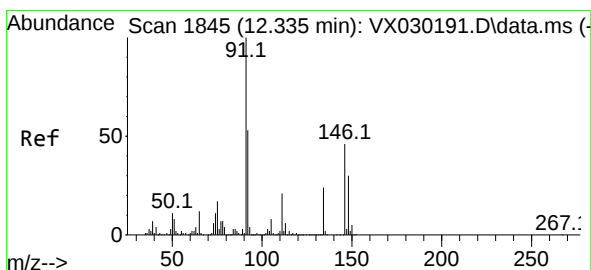
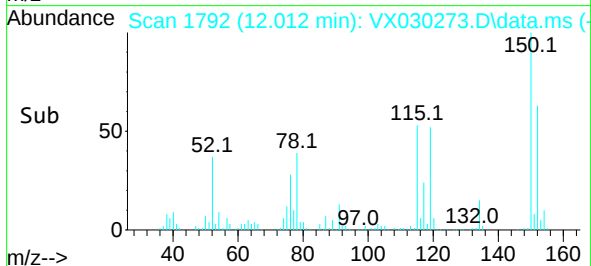
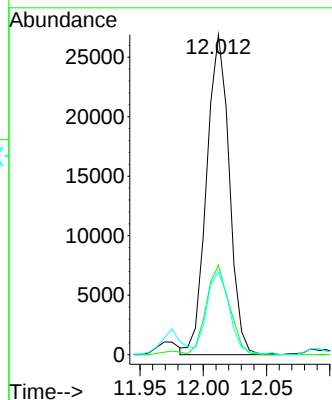
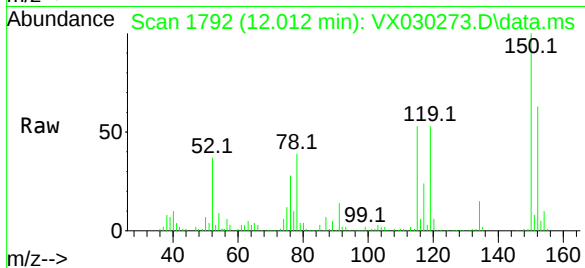
Tgt Ion:119 Resp: 33542

Ion Ratio Lower Upper

119 100

134 29.5 13.9 41.6

91 26.0 11.8 35.3



#89

n-Butylbenzene

Concen: 0.636 ug/l

RT: 12.244 min Scan# 1830

Delta R.T. -0.091 min

Lab File: VX030273.D

Acq: 28 Jul 2022 16:34

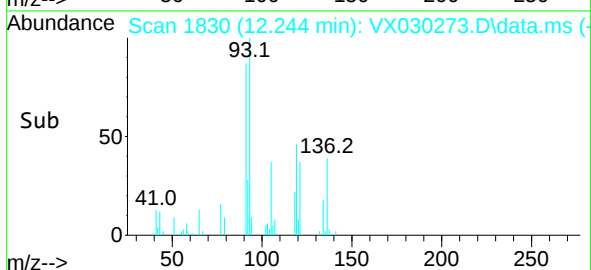
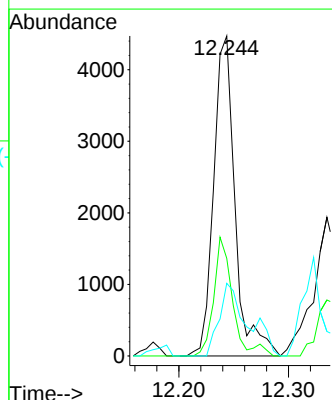
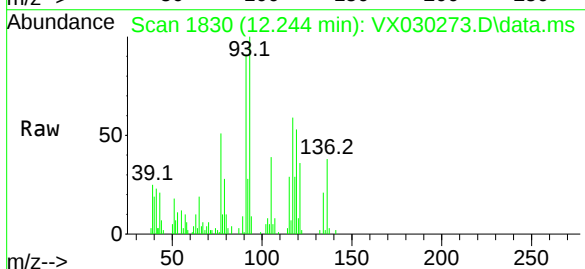
Tgt Ion: 91 Resp: 6063

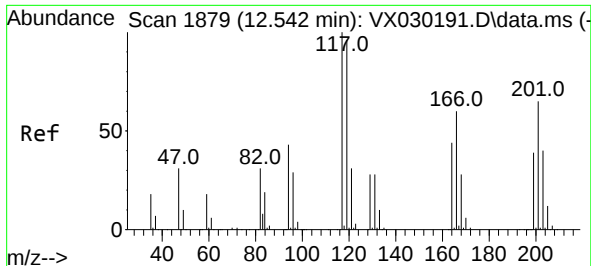
Ion Ratio Lower Upper

91 100

92 32.8 26.2 78.5

134 30.4 12.6 37.8

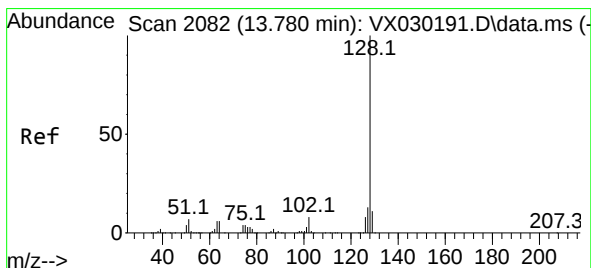
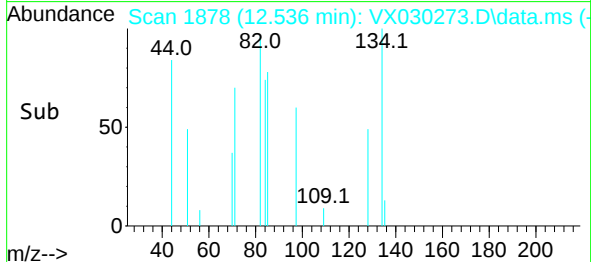
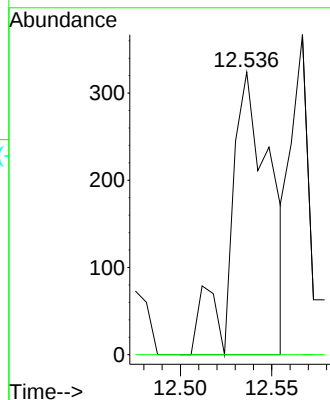
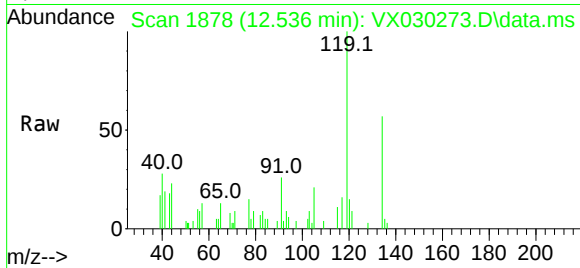




#90
Hexachloroethane
Concen: 0.278 ug/l
RT: 12.536 min Scan# 117
Delta R.T. -0.006 min
Lab File: VX030273.D
Acq: 28 Jul 2022 16:34

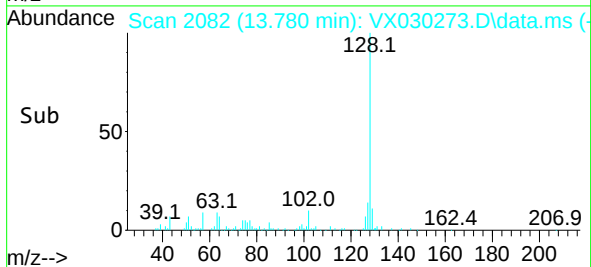
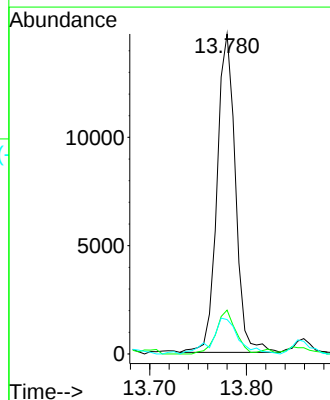
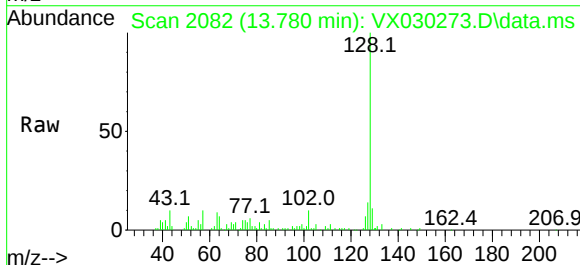
Instrument :
MSVOA_X
ClientSampleId :
62422

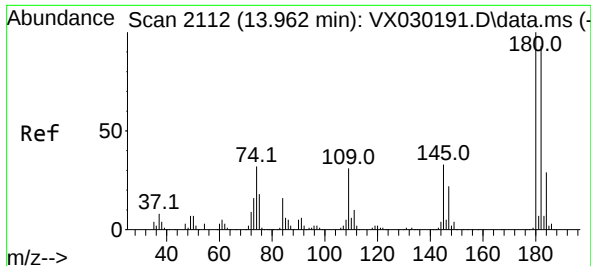
Tgt Ion:117 Resp: 490
Ion Ratio Lower Upper
117 100
201 0.0 34.2 102.5#



#95
Naphthalene
Concen: 1.585 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. -0.000 min
Lab File: VX030273.D
Acq: 28 Jul 2022 16:34

Tgt Ion:128 Resp: 19396
Ion Ratio Lower Upper
128 100
127 14.8 10.2 15.2
129 16.1 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.231 ug/l
 RT: 13.969 min Scan# 2113
 Delta R.T. 0.007 min
 Lab File: VX030273.D
 Acq: 28 Jul 2022 16:34

Instrument :
 MSVOA_X
 ClientSampleId :
 62422

Tgt Ion:180 Resp: 743
 Ion Ratio Lower Upper
 180 100
 182 57.6 47.0 141.0
 145 300.0 17.0 50.9#

