

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX041323\
 Data File : VX035039.D
 Acq On : 12 Apr 2023 12:16
 Operator : JC/MD
 Sample : 02288-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GROUND-WATER

Quant Time: Apr 13 02:31:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032923W.M
 Quant Title : SW846 8260
 QLast Update : Sat Apr 01 01:50:18 2023
 Response via : Initial Calibration

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

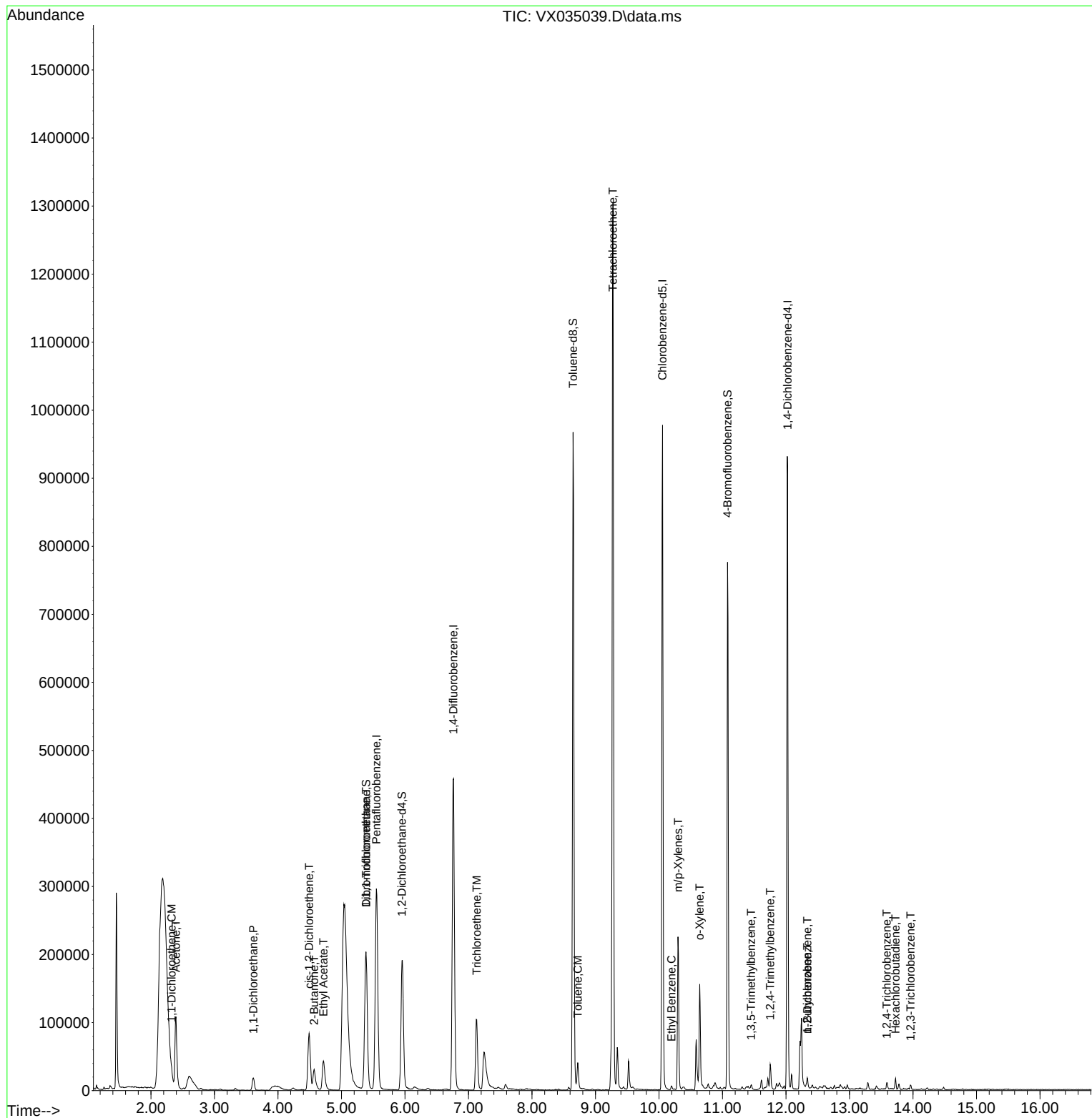
Internal Standards						
1) Pentafluorobenzene	5.550	168	273824	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	464892	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	424370	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	193676	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	190902	45.586	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	91.180%		
35) Dibromofluoromethane	5.385	113	147876	48.091	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.180%		
50) Toluene-d8	8.647	98	562224	49.537	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	99.080%		
62) 4-Bromofluorobenzene	11.079	95	213382	48.584	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	97.160%		
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	2.325	96	1754	0.624	ug/l	97
16) Acetone	2.392	43	139859	82.212	ug/l	98
24) 1,1-Dichloroethane	3.611	63	20616	3.448	ug/l	98
25) 2-Butanone	4.568	43	57436	23.210	ug/l	94
27) cis-1,2-Dichloroethene	4.489	96	52525	14.459	ug/l	92
32) 1,1,1-Trichloroethane	5.385	97	32972	6.362	ug/l	100
37) Ethyl Acetate	4.715	43	80121	16.820	ug/l	99
44) Trichloroethene	7.129	130	41578	12.455	ug/l	100
52) Toluene	8.720	92	14214	1.667	ug/l	97
64) Tetrachloroethene	9.275	164	242056	79.703	ug/l	96
67) Ethyl Benzene	10.195	91	3249	0.203	ug/l	92
68) m/p-Xylenes	10.299	106	51304	8.397	ug/l	98
69) o-Xylene	10.640	106	30740	5.136	ug/l	97
80) 1,3,5-Trimethylbenzene	11.451	105	2667	0.225	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	15801	1.310	ug/l	91
89) n-Butylbenzene	12.335	91	3764	0.381	ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	1576	0.246	ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	2025	0.558	ug/l	92
94) Hexachlorobutadiene	13.725	225	2072	1.299	ug/l	97
96) 1,2,3-Trichlorobenzene	13.963	180	1915	0.524	ug/l	91

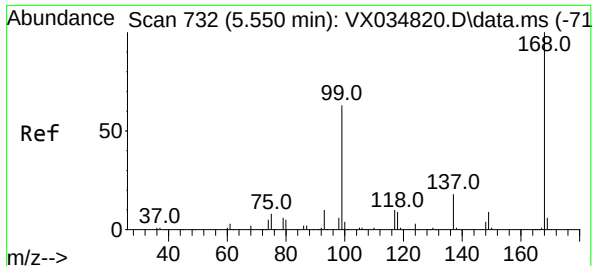
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 13 02:31:53 2023
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Quant Title : SW846 8260
QLast Update : Sat Apr 01 01:50:18 2023
Response via : Initial Calibration

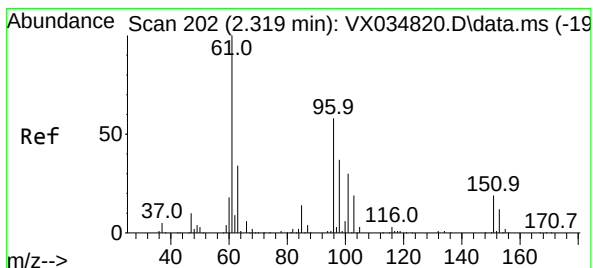
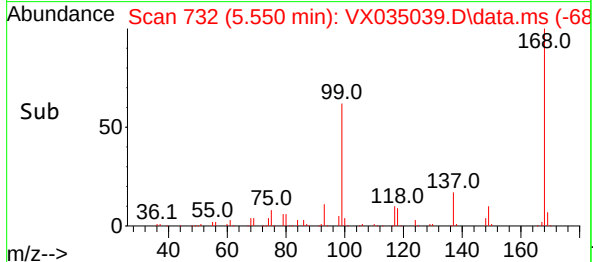
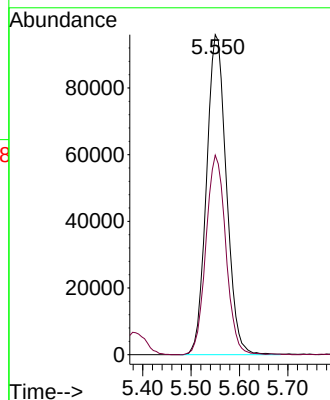
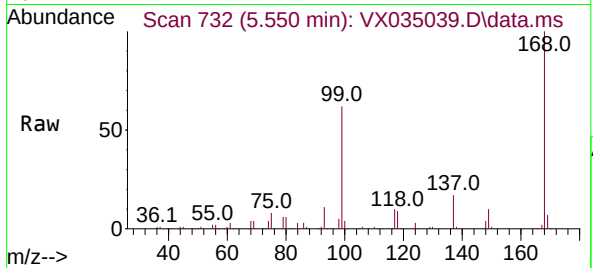




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX035039.D
Acq: 12 Apr 2023 12:16

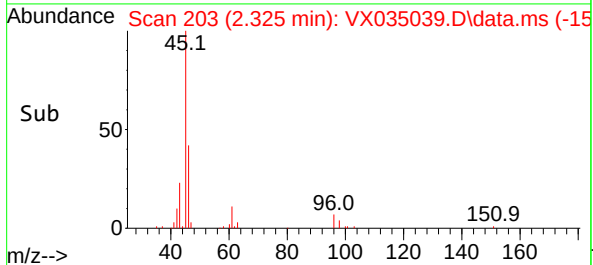
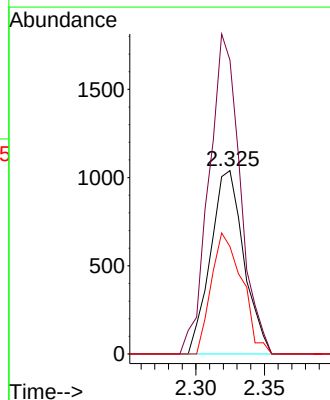
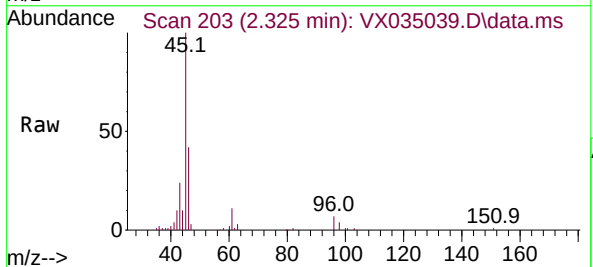
Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATER

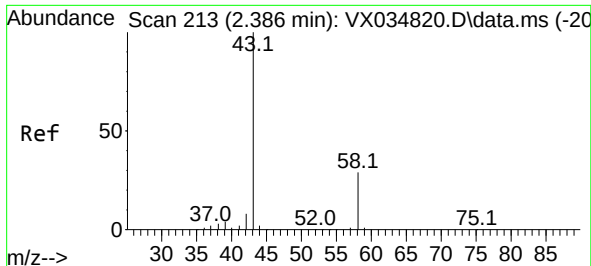
Tgt Ion:168 Resp: 273824
Ion Ratio Lower Upper
168 100
99 62.3 45.7 68.5



#12
1,1-Dichloroethene
Concen: 0.624 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.006 min
Lab File: VX035039.D
Acq: 12 Apr 2023 12:16

Tgt Ion: 96 Resp: 1754
Ion Ratio Lower Upper
96 100
61 160.1 128.8 193.2
98 58.6 51.4 77.0

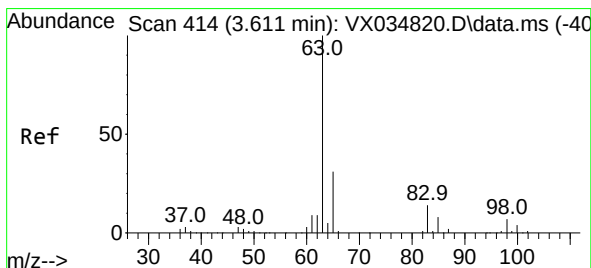
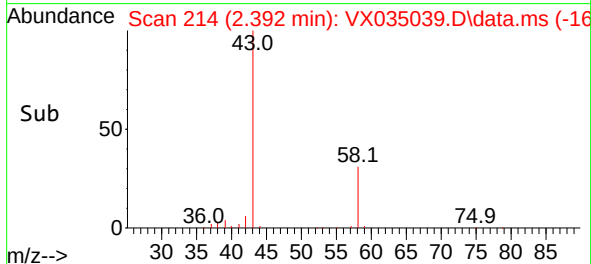
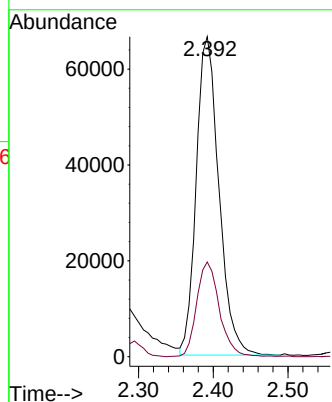
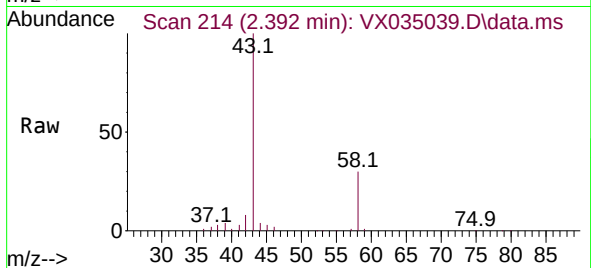




#16
Acetone
Concen: 82.212 ug/l
RT: 2.392 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX035039.D
Acq: 12 Apr 2023 12:16

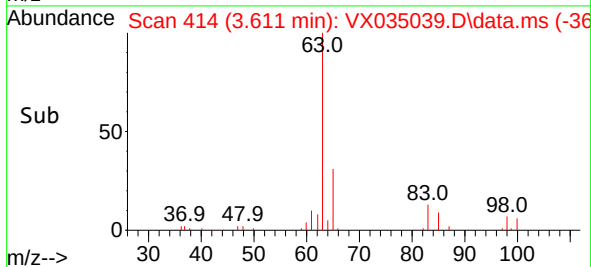
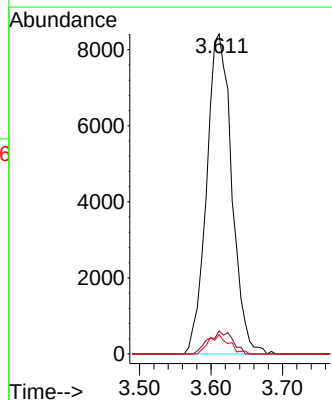
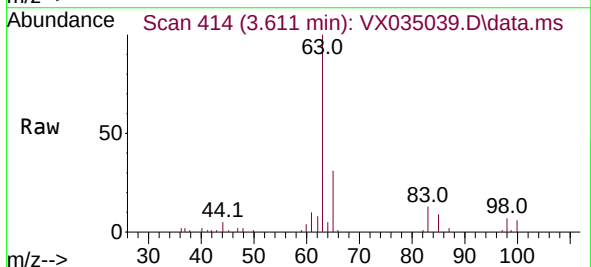
Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATER

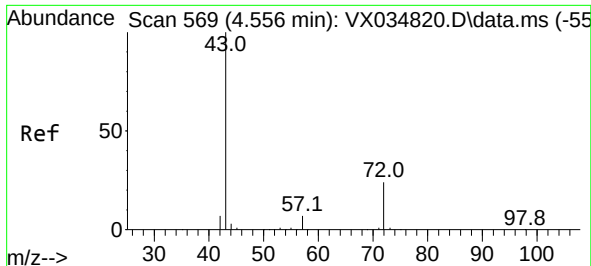
Tgt Ion: 43 Resp: 139859
Ion Ratio Lower Upper
43 100
58 29.6 24.7 37.1



#24
1,1-Dichloroethane
Concen: 3.448 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.000 min
Lab File: VX035039.D
Acq: 12 Apr 2023 12:16

Tgt Ion: 63 Resp: 20616
Ion Ratio Lower Upper
63 100
98 7.2 3.8 11.2
100 6.0 2.4 7.1

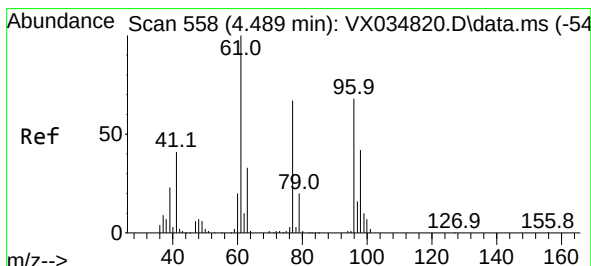
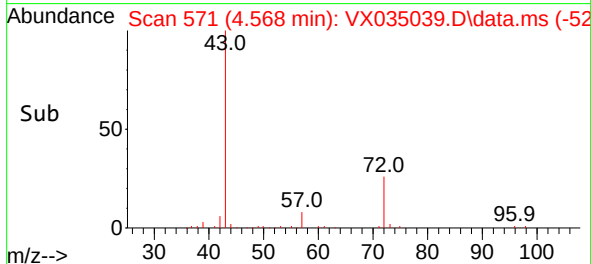
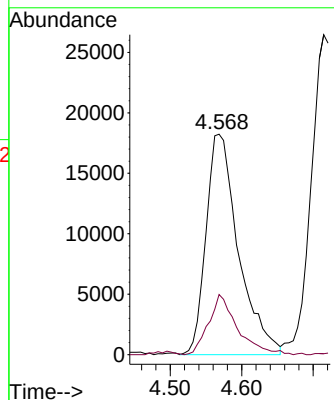
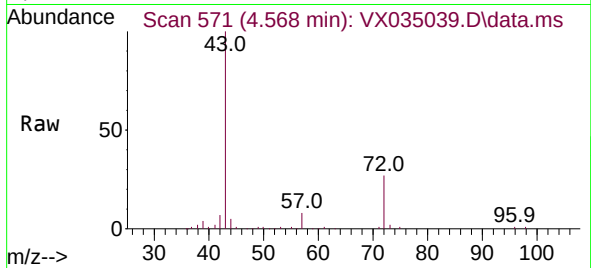




#25
2-Butanone
Concen: 23.210 ug/l
RT: 4.568 min Scan# 571
Delta R.T. 0.012 min
Lab File: VX035039.D
Acq: 12 Apr 2023 12:16

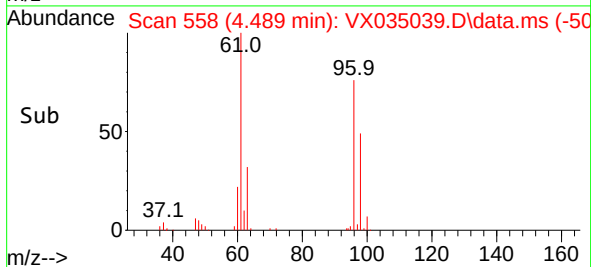
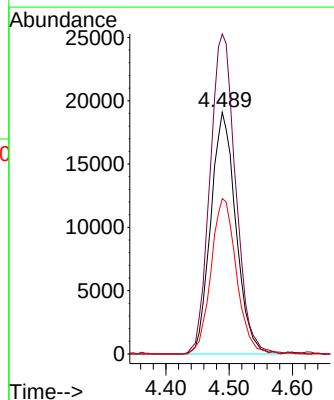
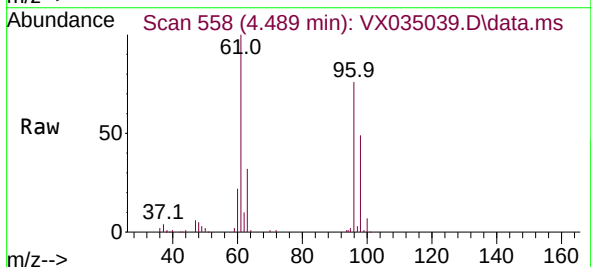
Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATER

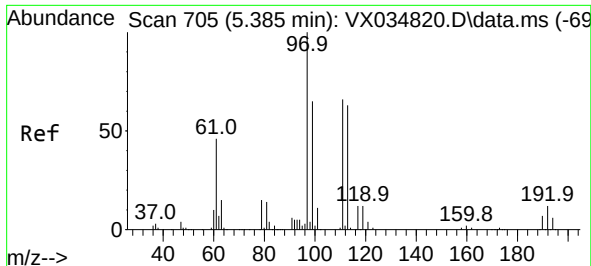
Tgt Ion: 43 Resp: 57436
Ion Ratio Lower Upper
43 100
72 26.9 19.3 28.9



#27
cis-1,2-Dichloroethene
Concen: 14.459 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.000 min
Lab File: VX035039.D
Acq: 12 Apr 2023 12:16

Tgt Ion: 96 Resp: 52525
Ion Ratio Lower Upper
96 100
61 135.4 0.0 300.4
98 65.1 0.0 129.0

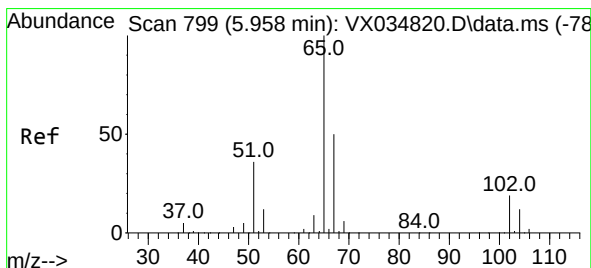
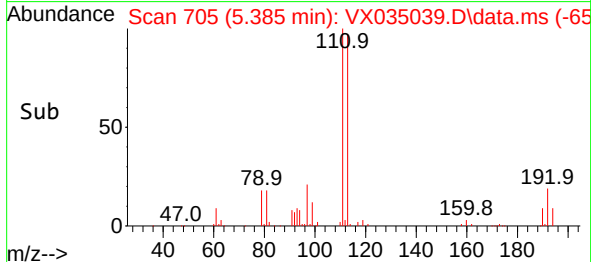
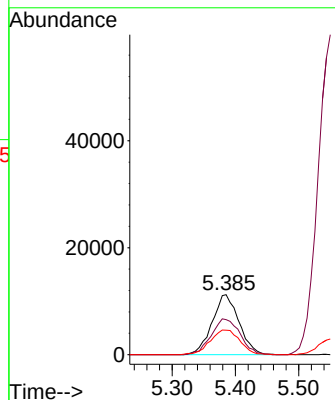
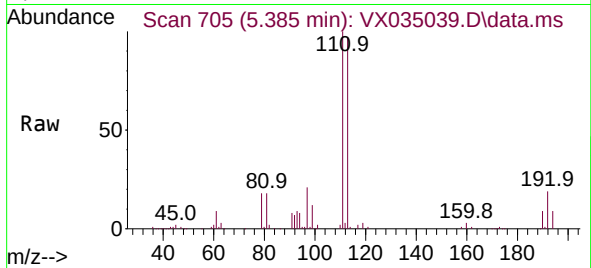




#32
1,1,1-Trichloroethane
Concen: 6.362 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX035039.D
Acq: 12 Apr 2023 12:16

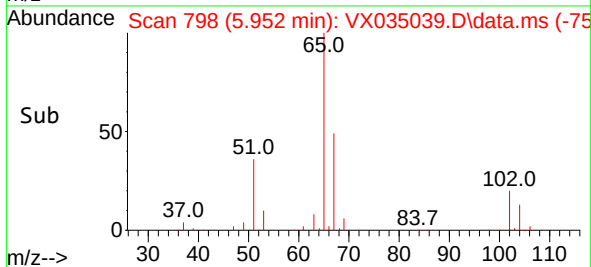
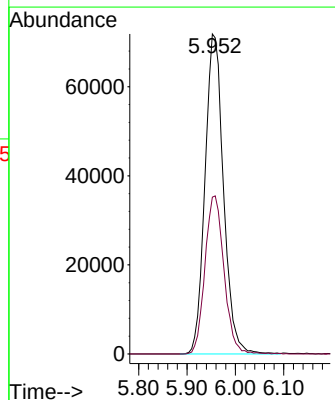
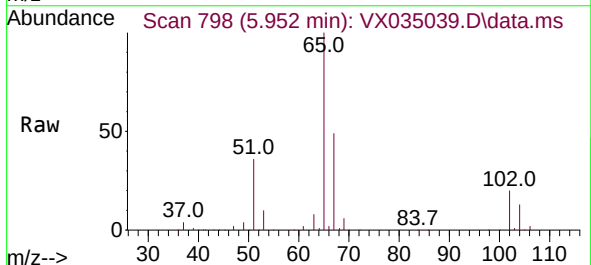
Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATER

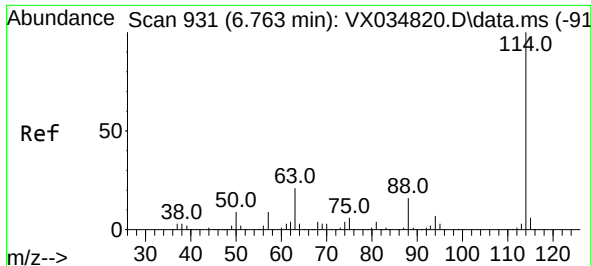
Tgt Ion: 97 Resp: 32972
Ion Ratio Lower Upper
97 100
99 64.2 51.1 76.7
61 45.5 36.5 54.7



#33
1,2-Dichloroethane-d4
Concen: 45.586 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.006 min
Lab File: VX035039.D
Acq: 12 Apr 2023 12:16

Tgt Ion: 65 Resp: 190902
Ion Ratio Lower Upper
65 100
67 50.7 0.0 104.0

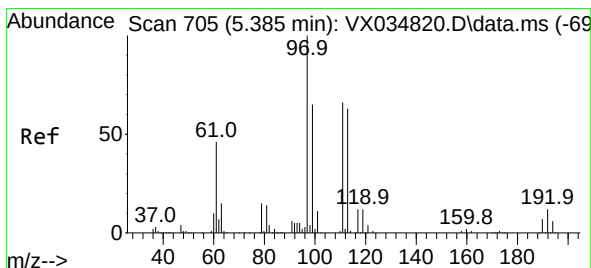
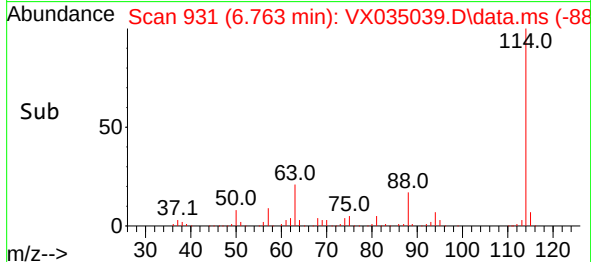
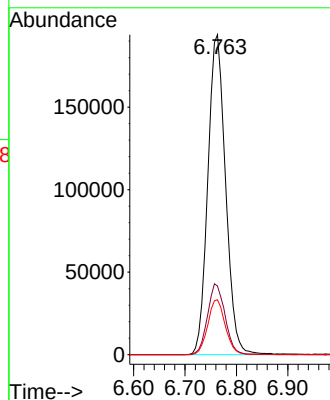
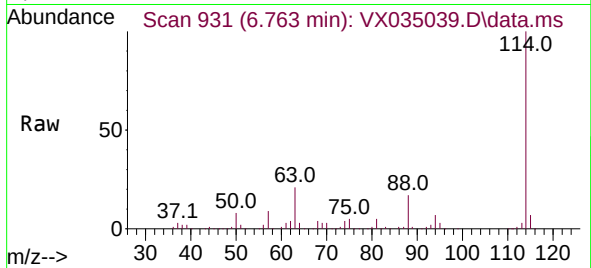




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX035039.D
Acq: 12 Apr 2023 12:16

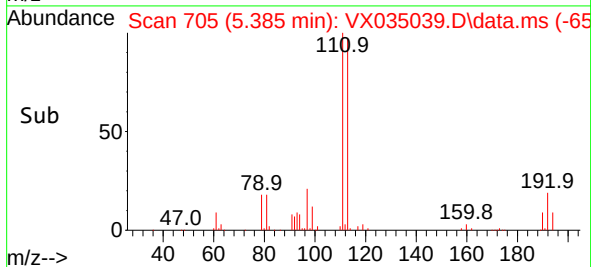
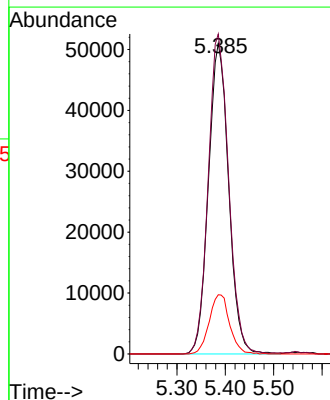
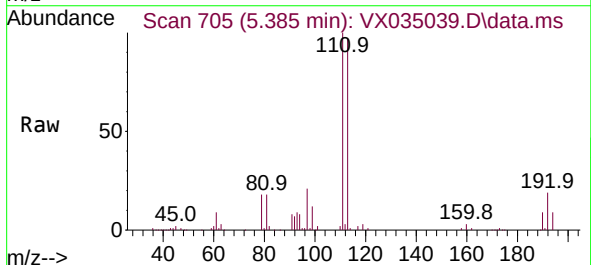
Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATER

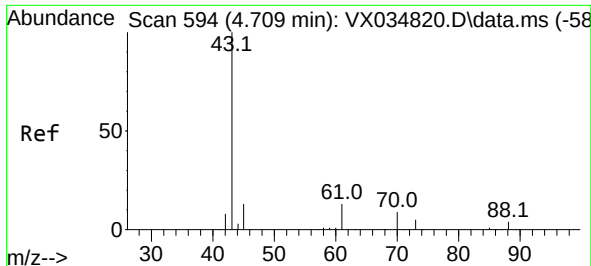
Tgt Ion:114 Resp: 464892
Ion Ratio Lower Upper
114 100
63 21.5 0.0 42.2
88 17.1 0.0 33.2



#35
Dibromofluoromethane
Concen: 48.091 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX035039.D
Acq: 12 Apr 2023 12:16

Tgt Ion:113 Resp: 147876
Ion Ratio Lower Upper
113 100
111 104.0 83.7 125.5
192 19.2 15.4 23.2





#37

Ethyl Acetate

Concen: 16.820 ug/l

RT: 4.715 min Scan# 595

Delta R.T. 0.006 min

Lab File: VX035039.D

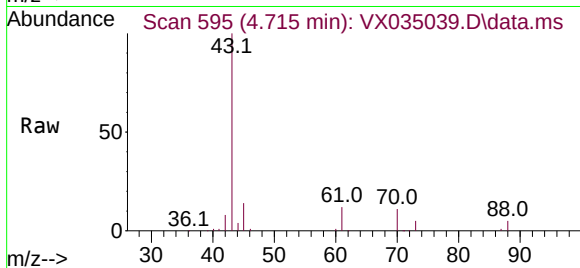
Acq: 12 Apr 2023 12:16

Instrument :

MSVOA_X

ClientSampleId :

GROUND-WATER



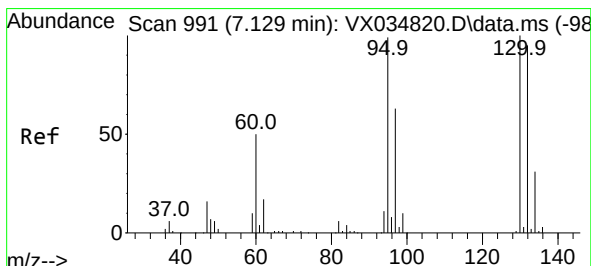
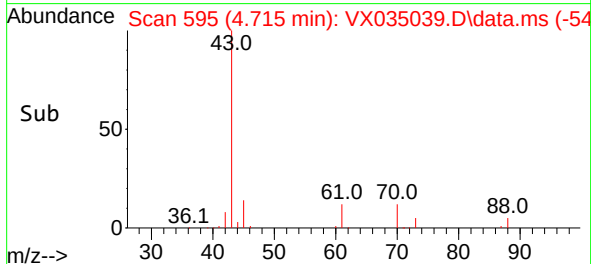
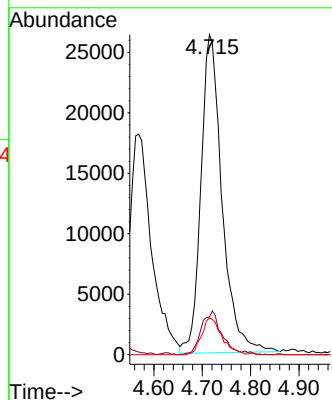
Tgt Ion: 43 Resp: 80121

Ion Ratio Lower Upper

43 100

61 13.1 10.2 15.4

70 11.0 8.2 12.4



#44

Trichloroethene

Concen: 12.455 ug/l

RT: 7.129 min Scan# 991

Delta R.T. 0.000 min

Lab File: VX035039.D

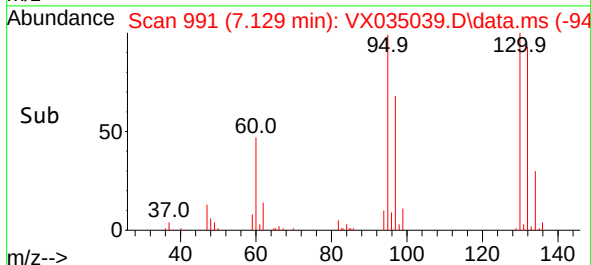
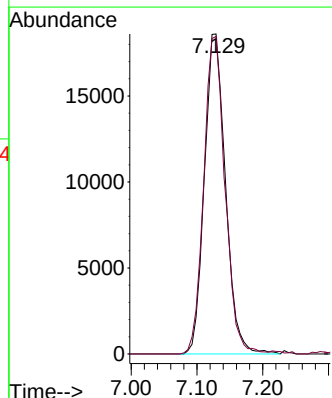
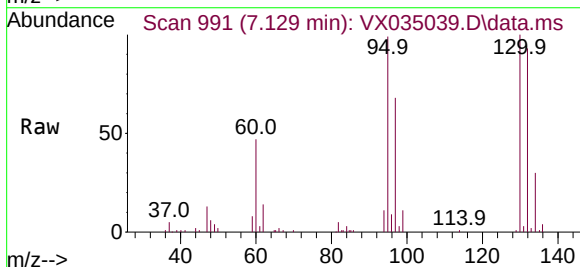
Acq: 12 Apr 2023 12:16

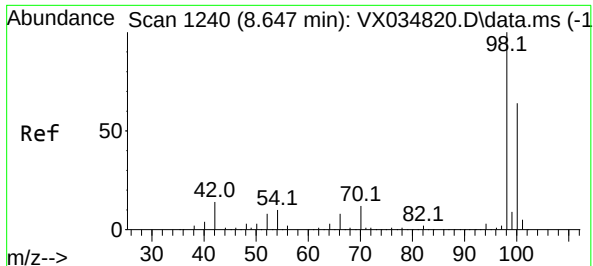
Tgt Ion:130 Resp: 41578

Ion Ratio Lower Upper

130 100

95 99.2 0.0 198.4

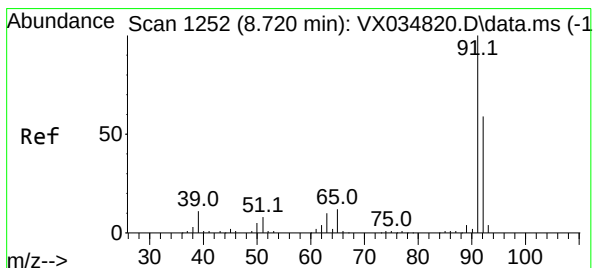
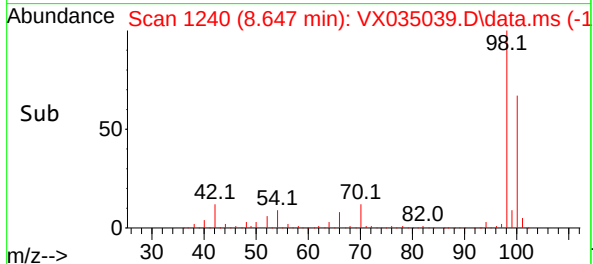
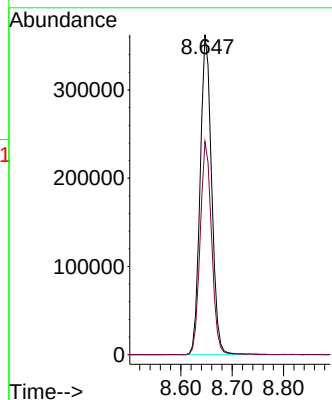
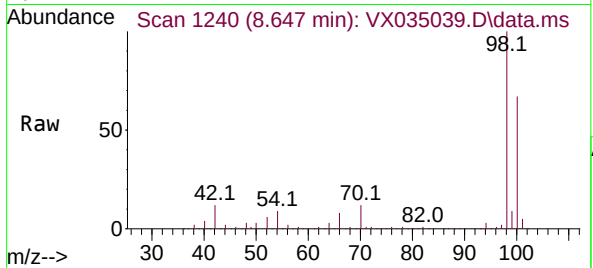




#50
Toluene-d8
Concen: 49.537 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX035039.D
Acq: 12 Apr 2023 12:16

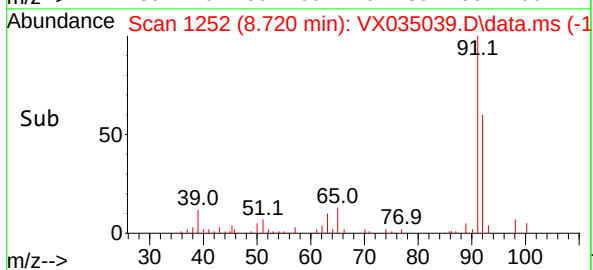
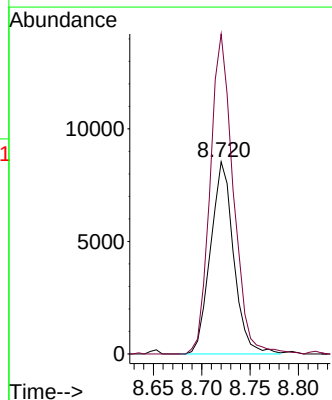
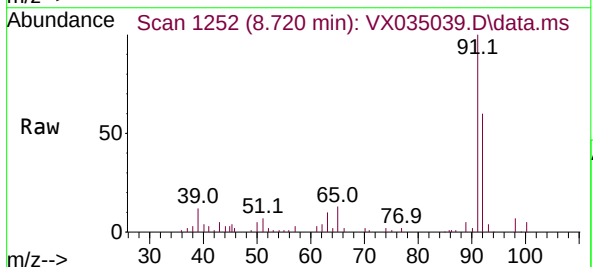
Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATER

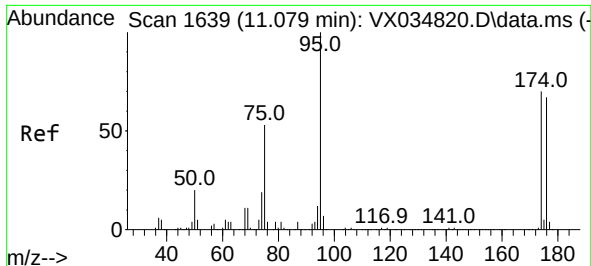
Tgt Ion: 98 Resp: 562224
Ion Ratio Lower Upper
98 100
100 66.5 52.5 78.7



#52
Toluene
Concen: 1.667 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX035039.D
Acq: 12 Apr 2023 12:16

Tgt Ion: 92 Resp: 14214
Ion Ratio Lower Upper
92 100
91 166.3 136.8 205.2

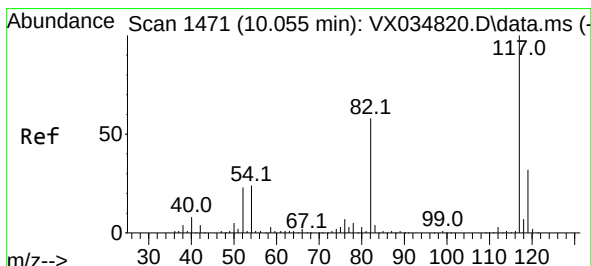
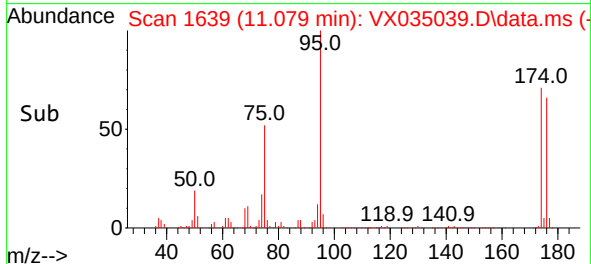
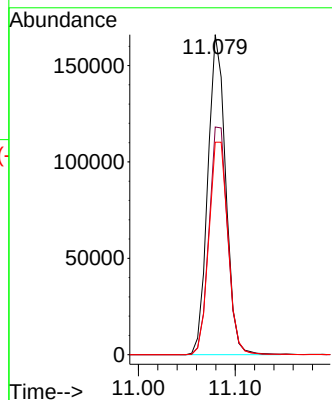
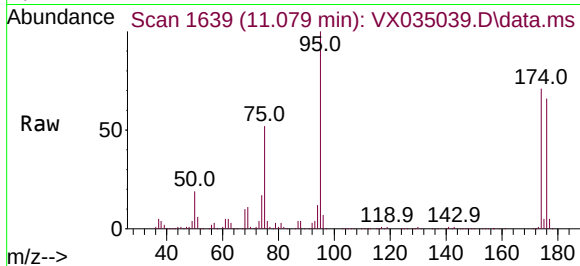




#62
4-Bromofluorobenzene
Concen: 48.584 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX035039.D
Acq: 12 Apr 2023 12:16

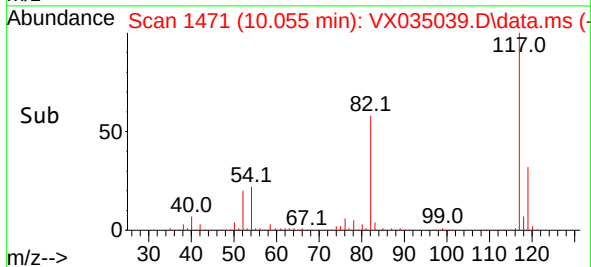
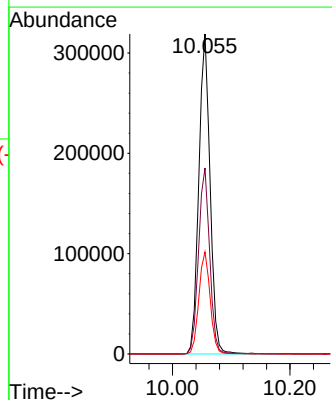
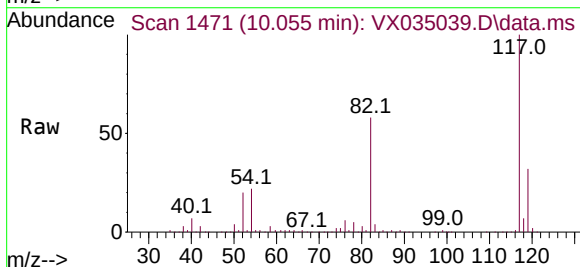
Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATER

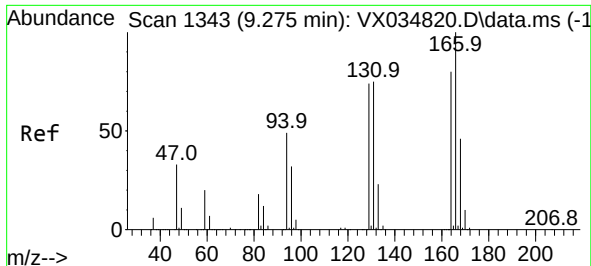
Tgt Ion: 95 Resp: 213382
Ion Ratio Lower Upper
95 100
174 73.7 0.0 147.4
176 70.9 0.0 140.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX035039.D
Acq: 12 Apr 2023 12:16

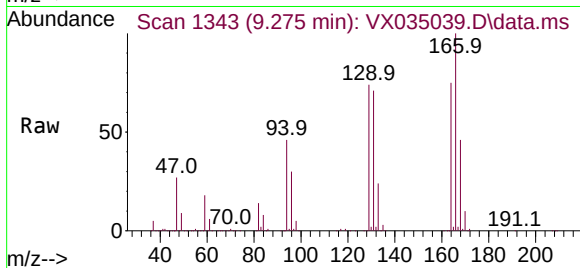
Tgt Ion: 117 Resp: 424370
Ion Ratio Lower Upper
117 100
82 58.1 45.0 67.4
119 31.9 26.0 39.0



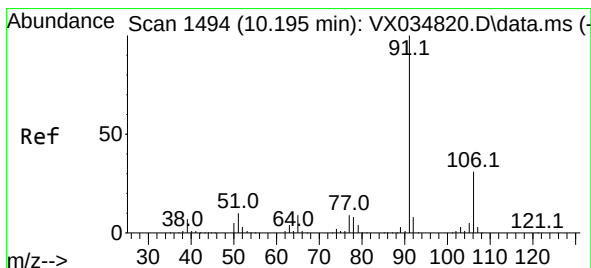
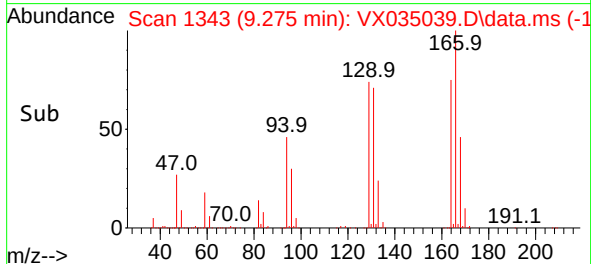
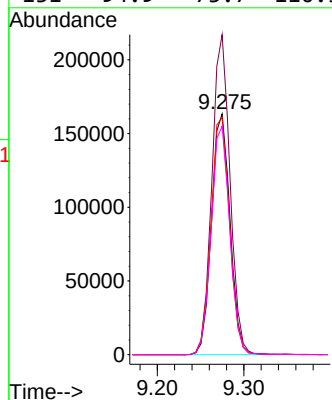


#64
Tetrachloroethene
Concen: 79.703 ug/l
RT: 9.275 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX035039.D
Acq: 12 Apr 2023 12:16

Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATER

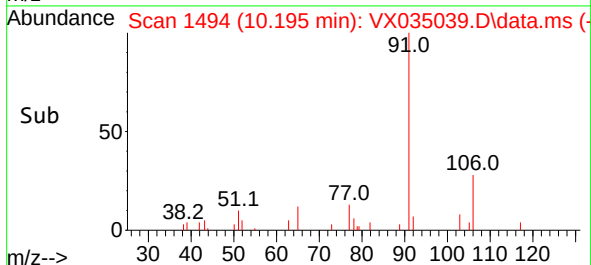
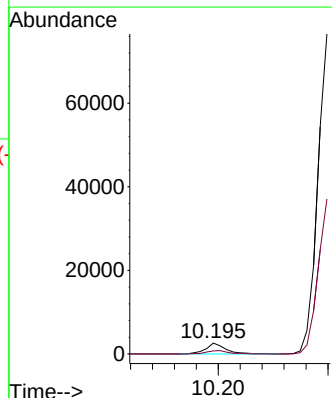
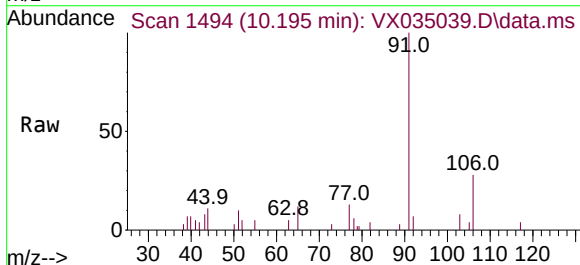


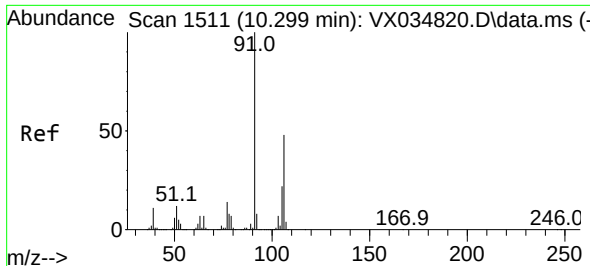
Tgt Ion:164 Resp: 242056
Ion Ratio Lower Upper
164 100
166 132.9 102.7 154.1
129 98.6 75.6 113.4
131 94.9 73.7 110.5



#67
Ethyl Benzene
Concen: 0.203 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX035039.D
Acq: 12 Apr 2023 12:16

Tgt Ion: 91 Resp: 3249
Ion Ratio Lower Upper
91 100
106 27.8 25.6 38.4

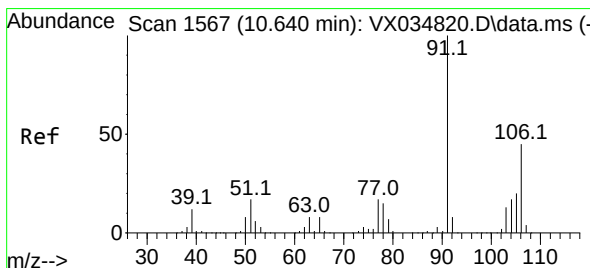
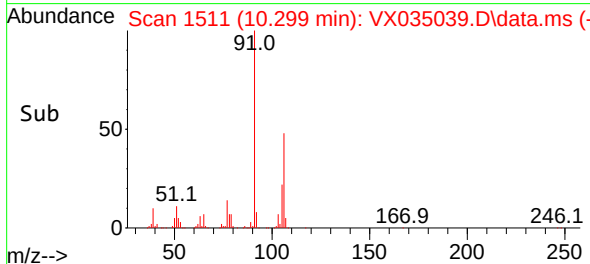
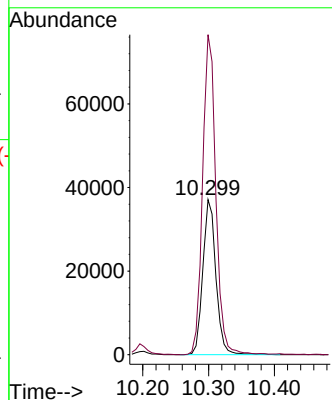
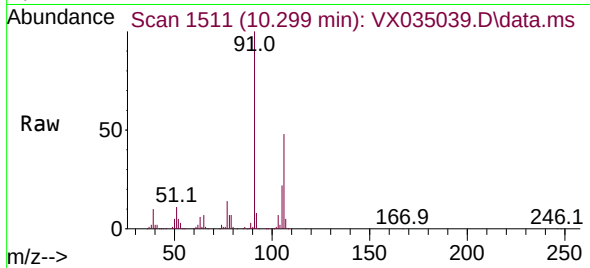




#68
m/p-Xylenes
Concen: 8.397 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX035039.D
Acq: 12 Apr 2023 12:16

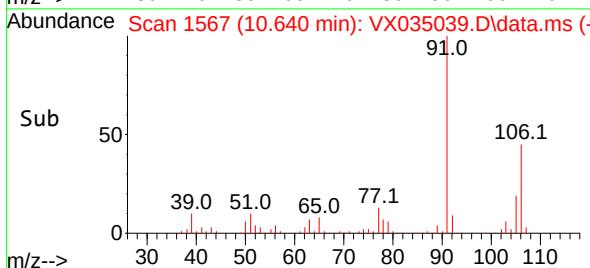
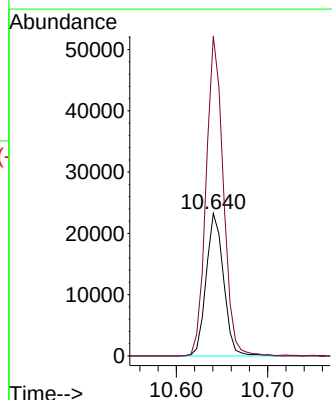
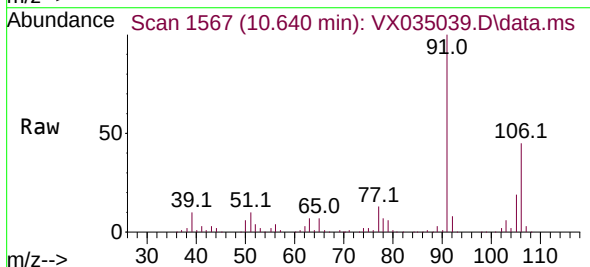
Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATER

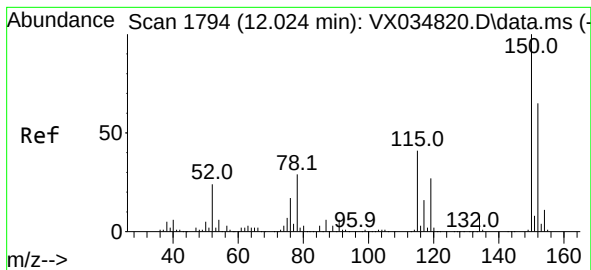
Tgt Ion:106 Resp: 51304
Ion Ratio Lower Upper
106 100
91 208.8 164.0 246.0



#69
o-Xylene
Concen: 5.136 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX035039.D
Acq: 12 Apr 2023 12:16

Tgt Ion:106 Resp: 30740
Ion Ratio Lower Upper
106 100
91 222.2 108.5 325.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX035039.D

Acq: 12 Apr 2023 12:16

Instrument :

MSVOA_X

ClientSampleId :

GROUND-WATER

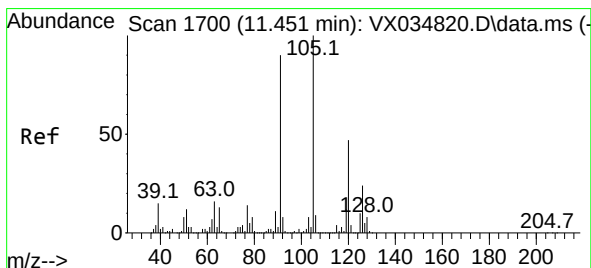
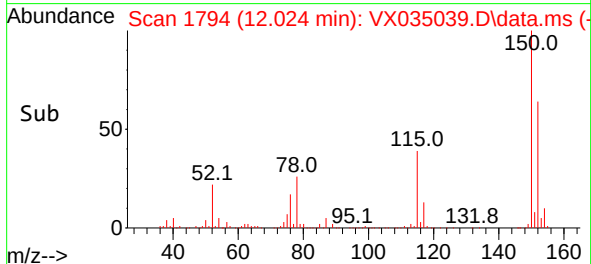
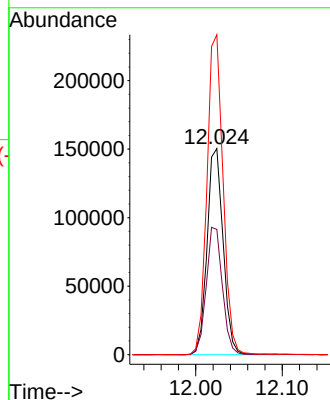
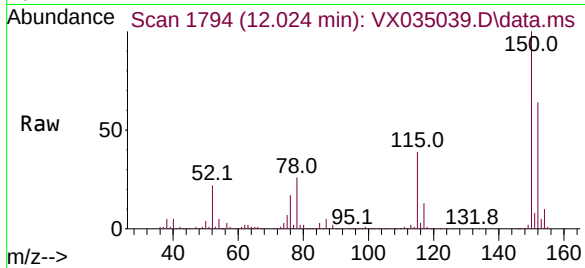
Tgt Ion:152 Resp: 193676

Ion Ratio Lower Upper

152 100

115 62.2 45.0 135.0

150 155.6 0.0 352.4



#80

1,3,5-Trimethylbenzene

Concen: 0.225 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX035039.D

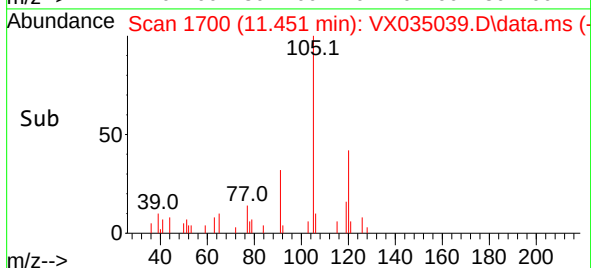
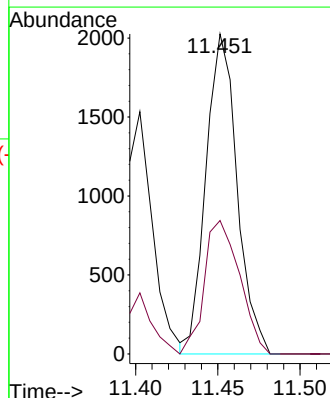
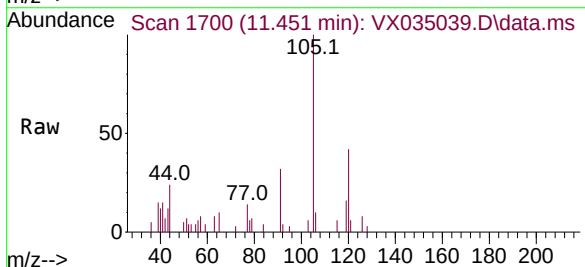
Acq: 12 Apr 2023 12:16

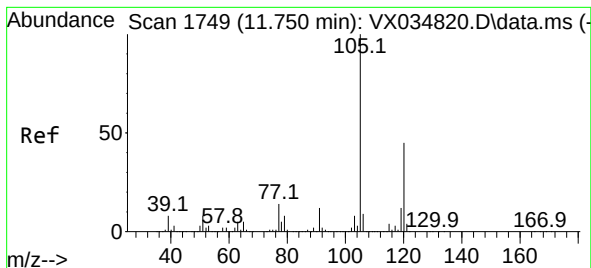
Tgt Ion:105 Resp: 2667

Ion Ratio Lower Upper

105 100

120 47.2 23.7 71.1





#84

1,2,4-Trimethylbenzene

Concen: 1.310 ug/l

RT: 11.750 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX035039.D

Acq: 12 Apr 2023 12:16

Instrument :

MSVOA_X

ClientSampleId :

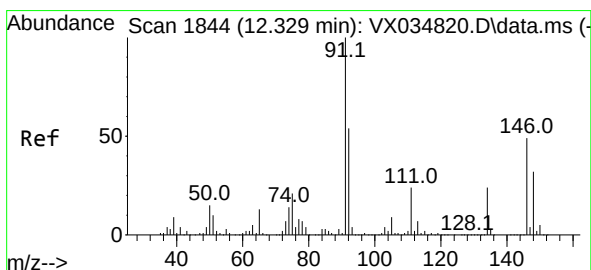
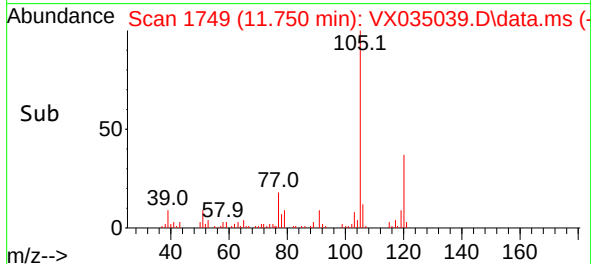
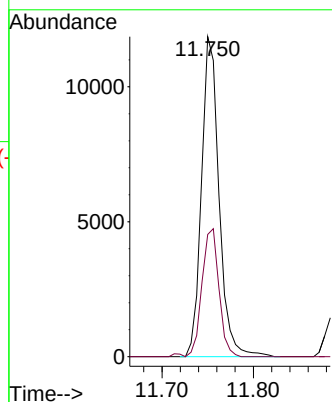
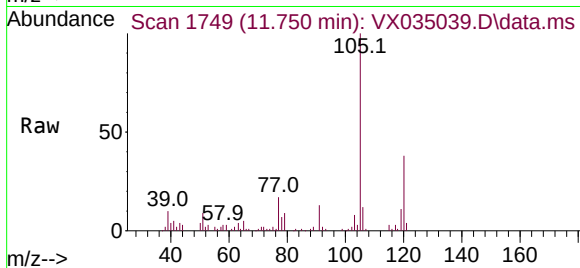
GROUND-WATER

Tgt Ion:105 Resp: 15801

Ion Ratio Lower Upper

105 100

120 38.9 22.4 67.0



#89

n-Butylbenzene

Concen: 0.381 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX035039.D

Acq: 12 Apr 2023 12:16

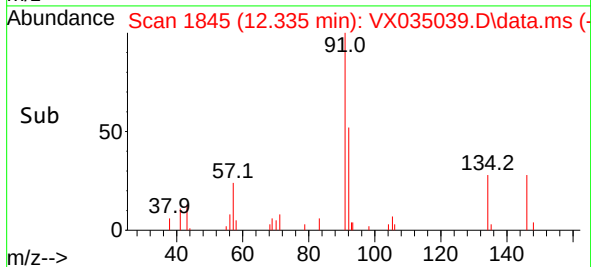
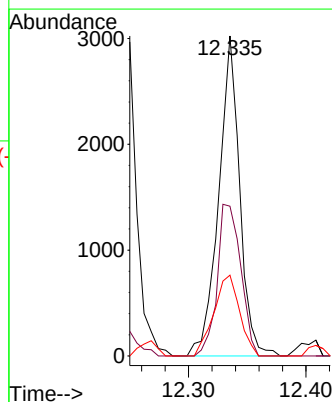
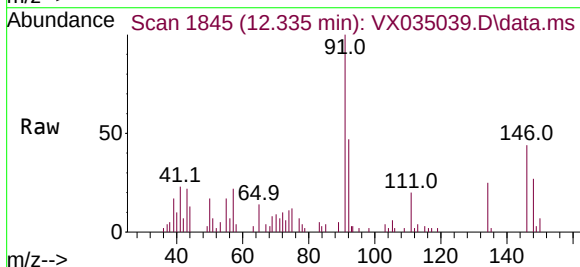
Tgt Ion: 91 Resp: 3764

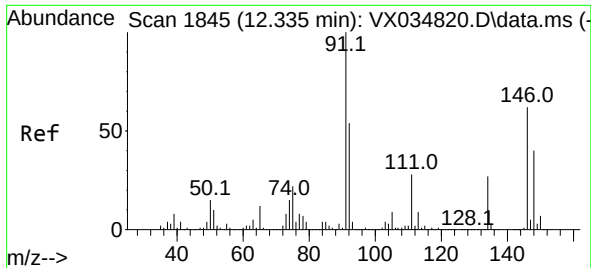
Ion Ratio Lower Upper

91 100

92 52.9 27.7 83.0

134 30.9 13.0 38.9

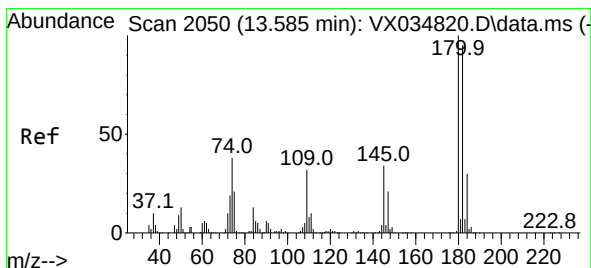
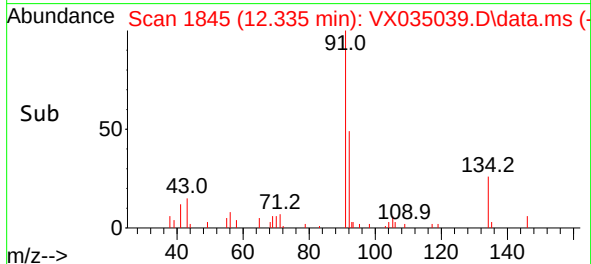
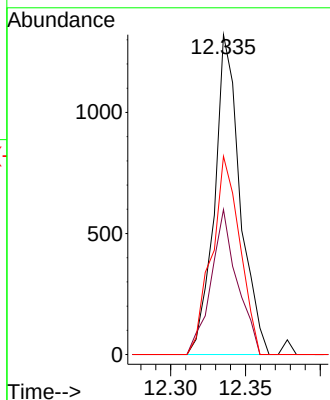
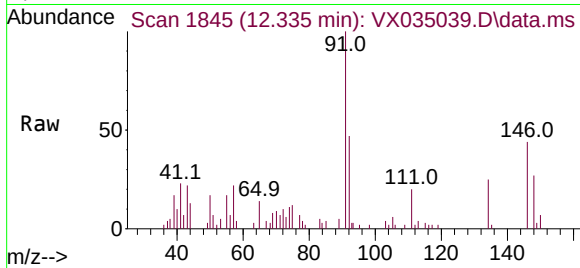




#91
 1,2-Dichlorobenzene
 Concen: 0.246 ug/l
 RT: 12.335 min Scan# 1845
 Delta R.T. 0.000 min
 Lab File: VX035039.D
 Acq: 12 Apr 2023 12:16

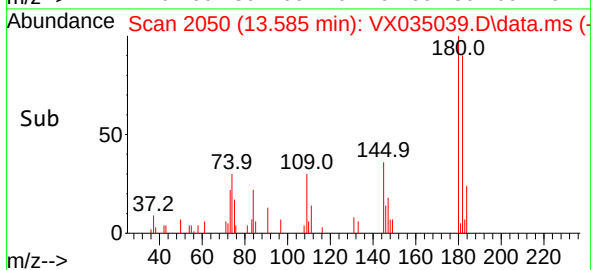
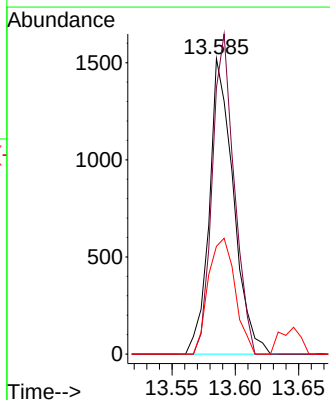
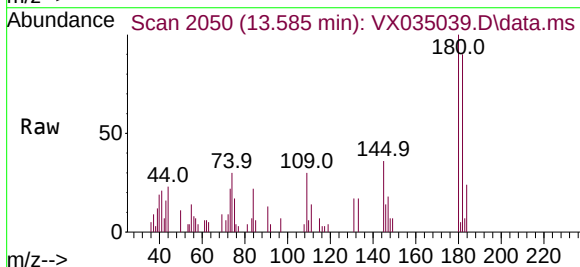
Instrument :
 MSVOA_X
 ClientSampleId :
 GROUND-WATER

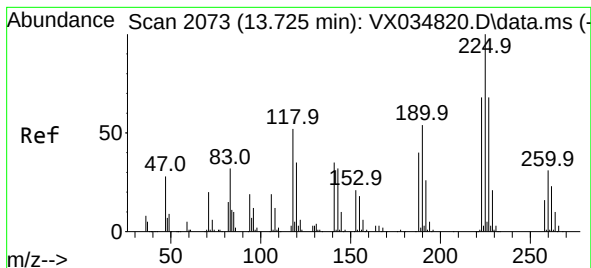
Tgt Ion:146 Resp: 1576
 Ion Ratio Lower Upper
 146 100
 111 46.0 22.0 66.0
 148 67.7 32.0 96.0



#93
 1,2,4-Trichlorobenzene
 Concen: 0.558 ug/l
 RT: 13.585 min Scan# 2050
 Delta R.T. 0.000 min
 Lab File: VX035039.D
 Acq: 12 Apr 2023 12:16

Tgt Ion:180 Resp: 2025
 Ion Ratio Lower Upper
 180 100
 182 97.9 47.0 141.0
 145 43.2 15.9 47.7





#94

Hexachlorobutadiene

Concen: 1.299 ug/l

RT: 13.725 min Scan# 2072

Delta R.T. 0.000 min

Lab File: VX035039.D

Acq: 12 Apr 2023 12:16

Instrument :

MSVOA_X

ClientSampleId :

GROUND-WATER

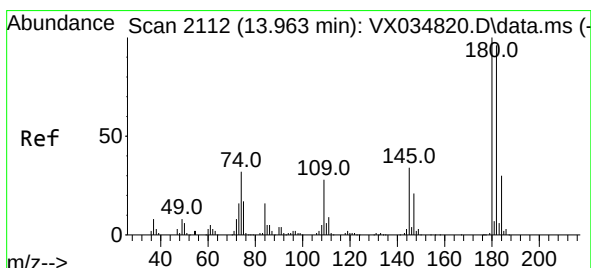
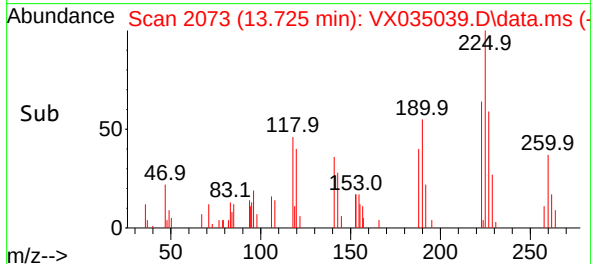
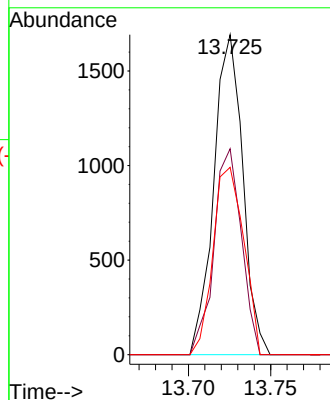
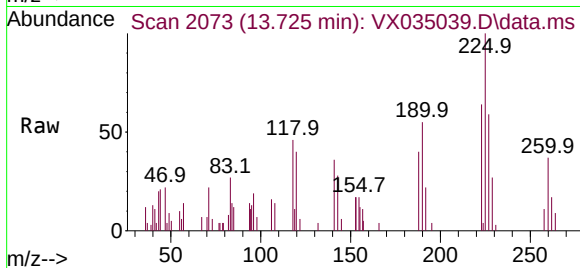
Tgt Ion:225 Resp: 2072

Ion Ratio Lower Upper

225 100

223 61.0 32.1 96.5

227 62.1 31.8 95.4



#96

1,2,3-Trichlorobenzene

Concen: 0.524 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. 0.000 min

Lab File: VX035039.D

Acq: 12 Apr 2023 12:16

Tgt Ion:180 Resp: 1915

Ion Ratio Lower Upper

180 100

182 84.8 48.0 144.2

145 36.4 17.7 53.1

