

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041924\
 Data File : VY017996.D
 Acq On : 19 Apr 2024 14:10
 Operator : SY/MD
 Sample : P2178-03
 Misc : 3.85g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOPSOIL-LKWD-DENALI-5

Quant Time: Apr 19 23:24:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y041624S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:24:42 2024
 Response via : Initial Calibration

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

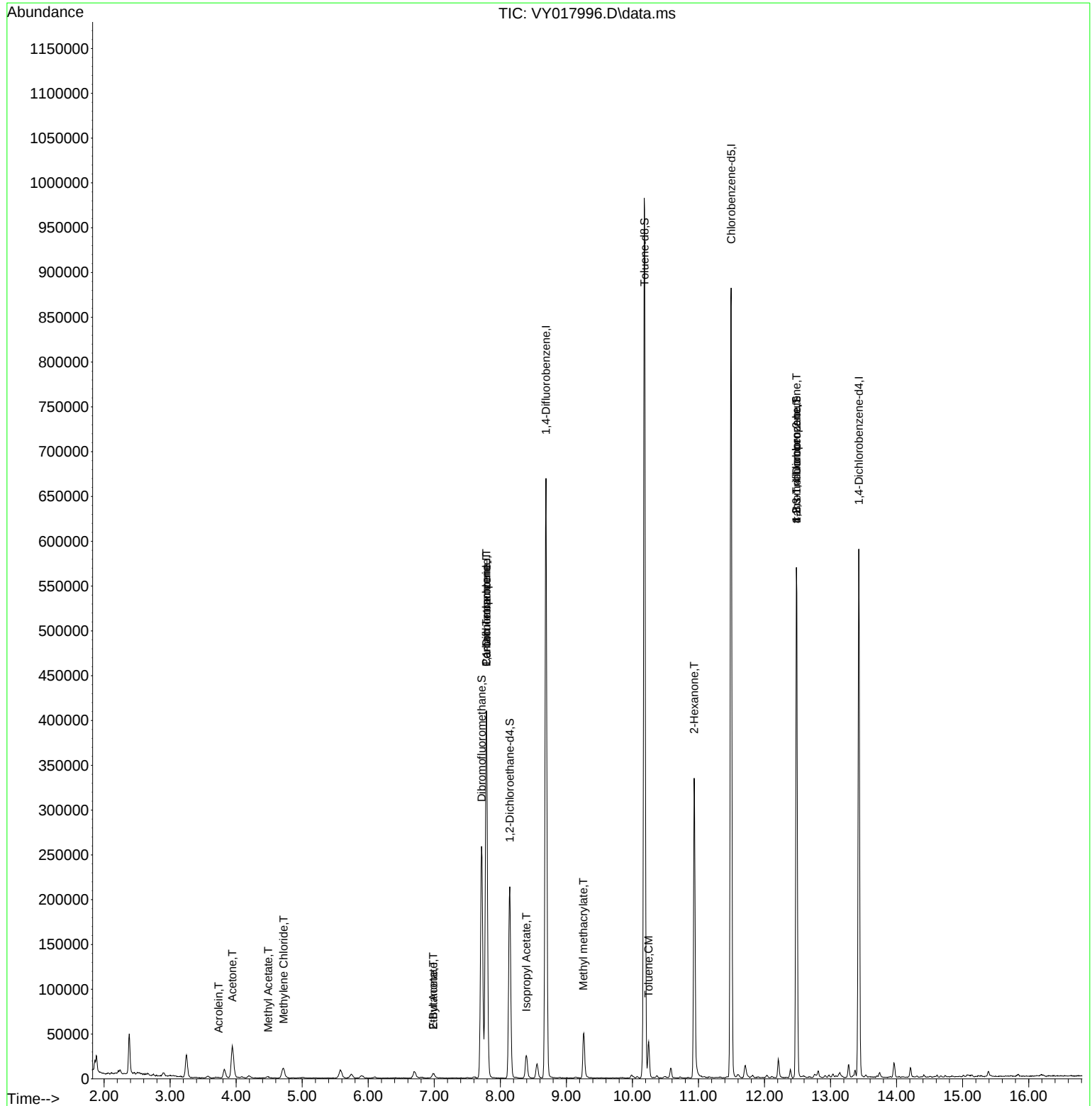
Internal Standards						
1) Pentafluorobenzene	7.789	168	352260	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	609783	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	527193	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	164090	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	160559	52.67	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.34%			
35) Dibromofluoromethane	7.716	113	189931	50.49	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.98%			
50) Toluene-d8	10.185	98	692064	48.48	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.96%			
62) 4-Bromofluorobenzene	12.483	95	175256	39.64	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 79.28%			
Target Compounds						
11) Tert butyl alcohol	4.948	59	470	Below Cal	#	88
13) Acrolein	3.735	56	542	2.28	ug/l #	15
16) Acetone	3.942	43	60015	99.64	ug/l	96
18) Methyl Acetate	4.485	43	2921	1.84	ug/l	99
20) Methylene Chloride	4.716	84	9562	2.34	ug/l	92
25) 2-Butanone	6.984	43	7450	8.41	ug/l #	80
36) 1,1-Dichloropropene	7.789	75	22017	4.02	ug/l #	48
37) Ethyl Acetate	6.984	43	7450	3.31	ug/l #	68
38) Carbon Tetrachloride	7.789	117	29948	5.42	ug/l #	18
43) Isopropyl Acetate	8.392	43	8104	1.93	ug/l #	47
48) Methyl methacrylate	9.258	41	12884	6.70	ug/l #	30
52) Toluene	10.246	92	16326	1.55	ug/l	96
59) 2-Hexanone	10.935	43	49421	32.55	ug/l #	46
76) 1,2,3-Trichloropropane	12.483	75	84436	54.84	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	84436	113.06	ug/l #	16

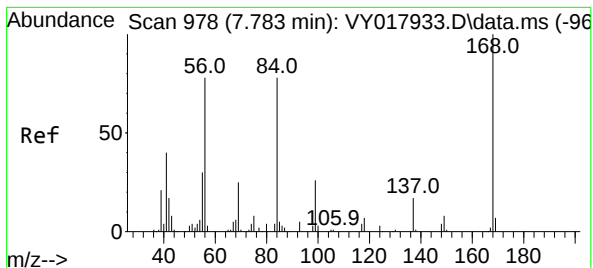
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.000 min

Lab File: VY017996.D

Acq: 19 Apr 2024 14:10

Instrument :

MSVOA_Y

ClientSampleId :

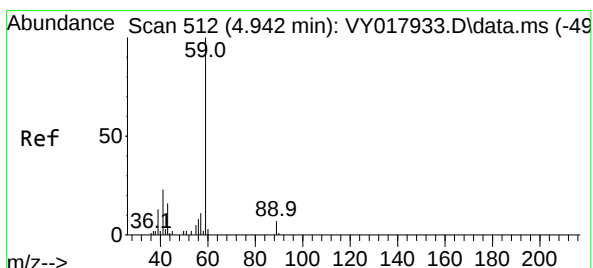
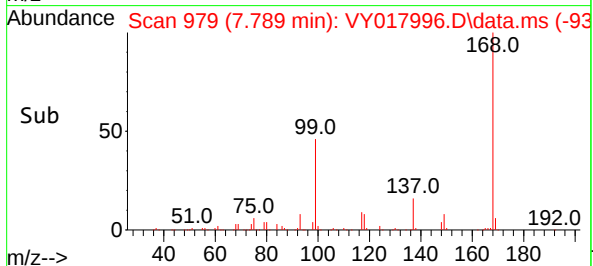
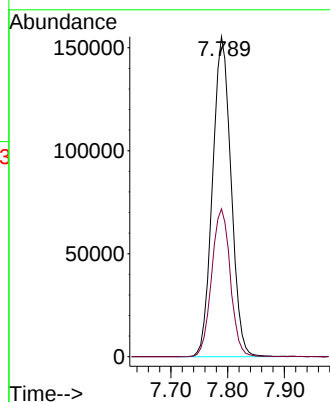
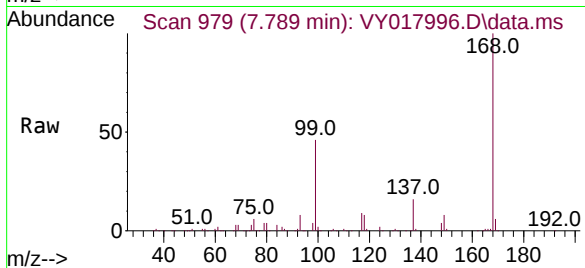
TOPSOIL-LKWD-DENALI-5

Tgt Ion:168 Resp: 352260

Ion Ratio Lower Upper

168 100

99 46.2 39.1 58.7



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.948 min Scan# 513

Delta R.T. -0.006 min

Lab File: VY017996.D

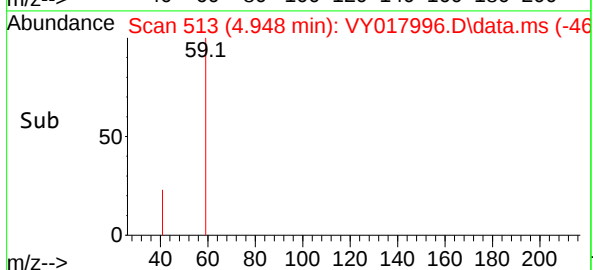
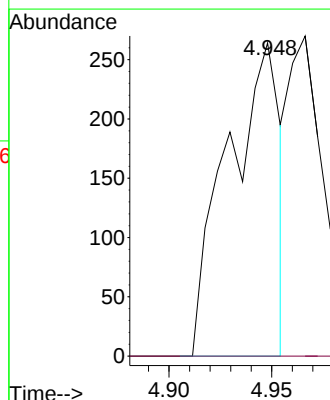
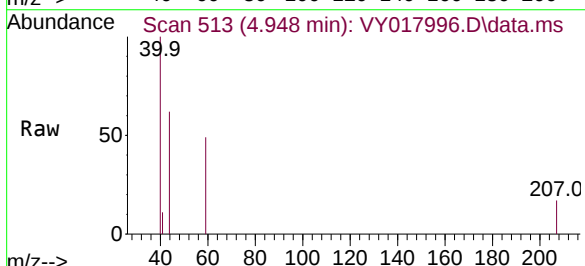
Acq: 19 Apr 2024 14:10

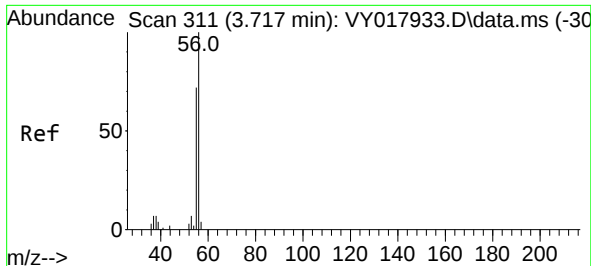
Tgt Ion: 59 Resp: 470

Ion Ratio Lower Upper

59 100

57 0.0 3.0 4.6#





#13

Acrolein

Concen: 2.28 ug/l

RT: 3.735 min Scan# 311

Delta R.T. 0.006 min

Lab File: VY017996.D

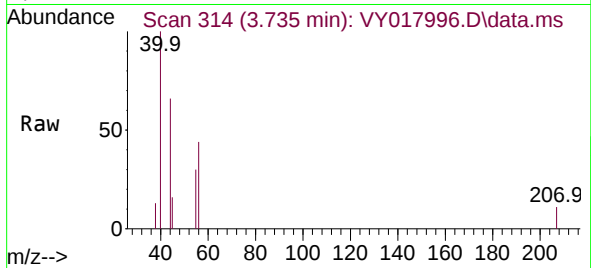
Acq: 19 Apr 2024 14:10

Instrument :

MSVOA_Y

ClientSampleId :

TOPSOIL-LKWD-DENALI-5

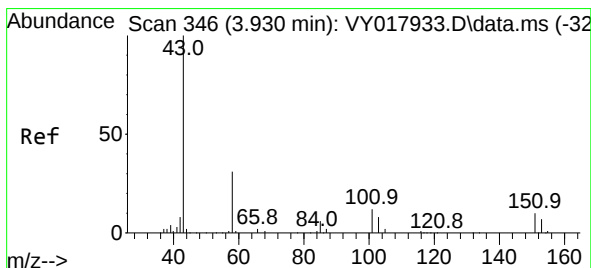
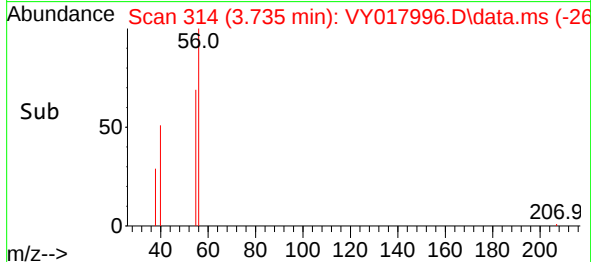
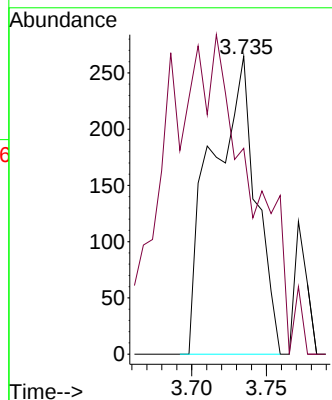


Tgt Ion: 56 Resp: 542

Ion Ratio Lower Upper

56 100

55 0.0 55.7 83.5#



#16

Acetone

Concen: 99.64 ug/l

RT: 3.942 min Scan# 348

Delta R.T. -0.006 min

Lab File: VY017996.D

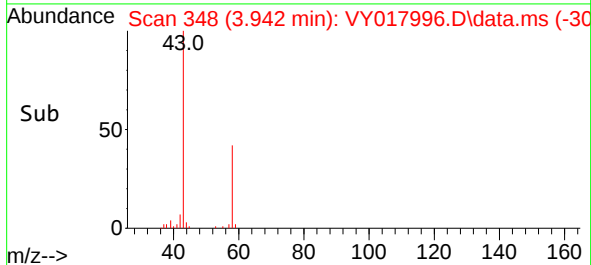
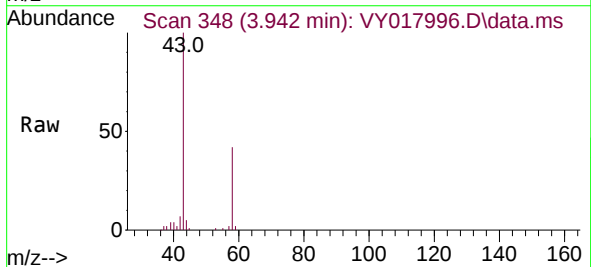
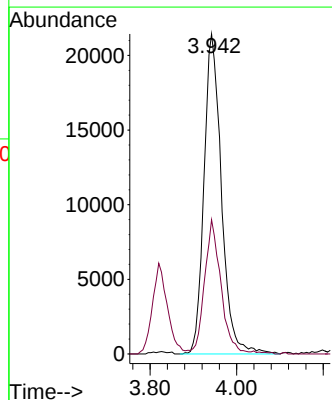
Acq: 19 Apr 2024 14:10

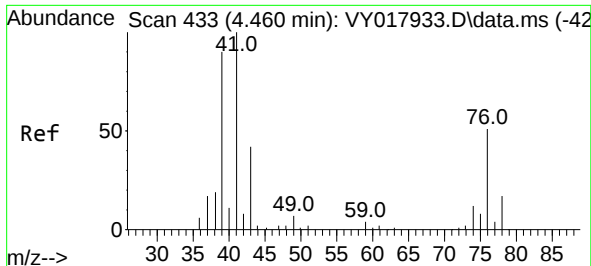
Tgt Ion: 43 Resp: 60015

Ion Ratio Lower Upper

43 100

58 42.0 31.7 47.5

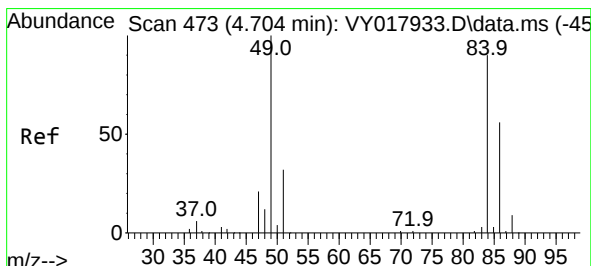
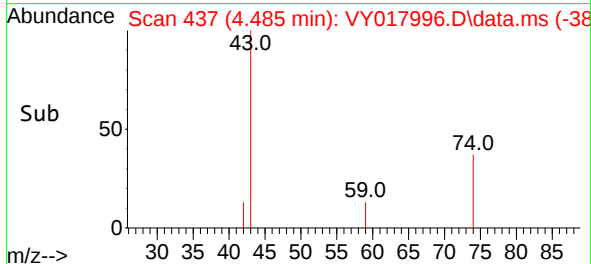
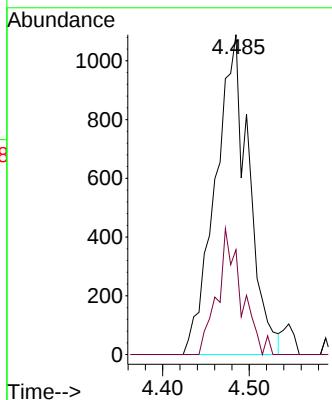
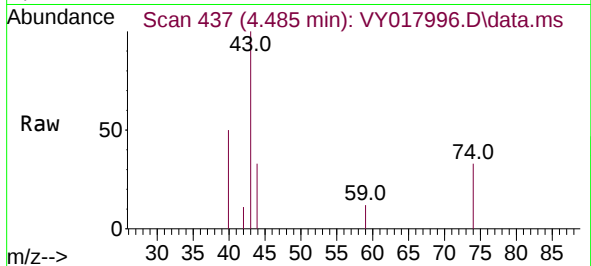




#18
Methyl Acetate
Concen: 1.84 ug/l
RT: 4.485 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY017996.D
Acq: 19 Apr 2024 14:10

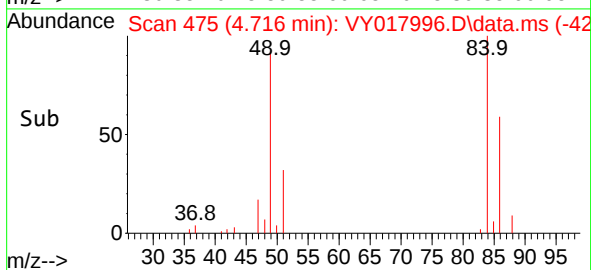
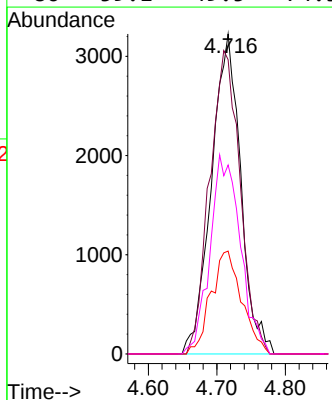
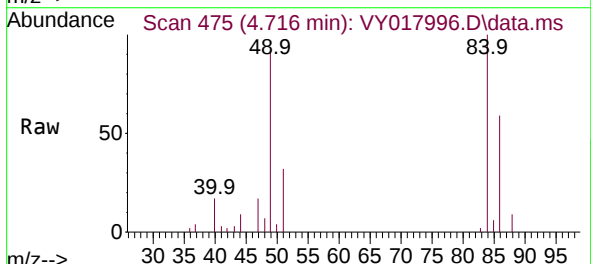
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-5

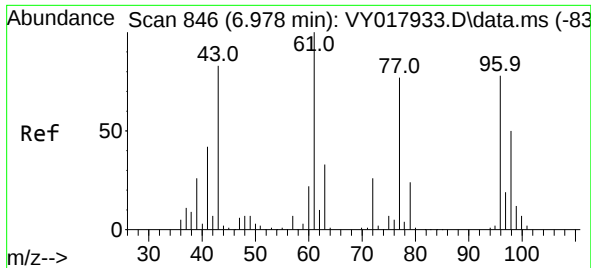
Tgt Ion: 43 Resp: 2921
Ion Ratio Lower Upper
43 100
74 28.3 23.3 34.9



#20
Methylene Chloride
Concen: 2.34 ug/l
RT: 4.716 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY017996.D
Acq: 19 Apr 2024 14:10

Tgt Ion: 84 Resp: 9562
Ion Ratio Lower Upper
84 100
49 91.9 84.4 126.6
51 32.2 26.0 39.0
86 59.1 49.5 74.3

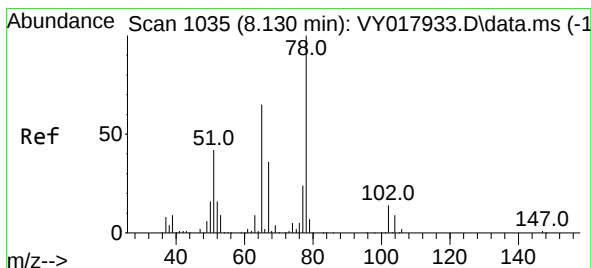
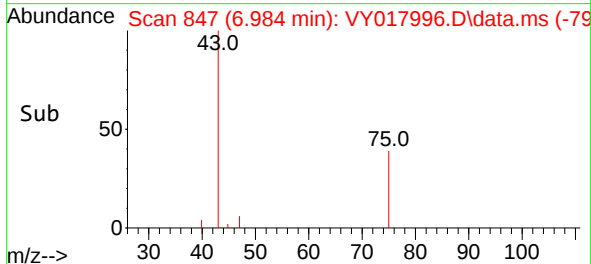
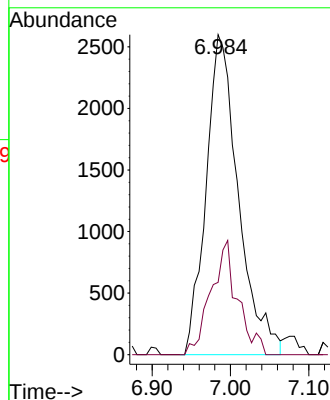
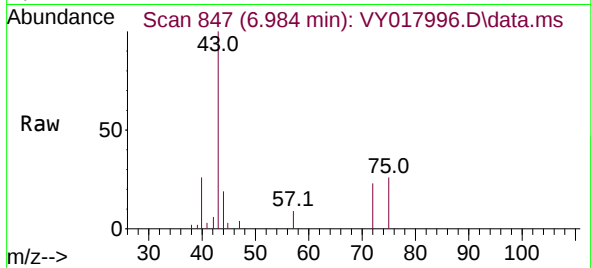




#25
2-Butanone
Concen: 8.41 ug/l
RT: 6.984 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY017996.D
Acq: 19 Apr 2024 14:10

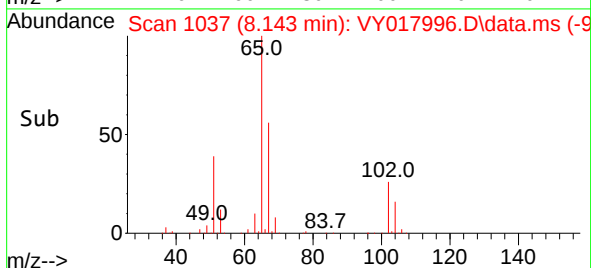
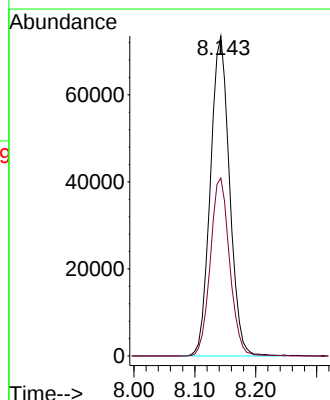
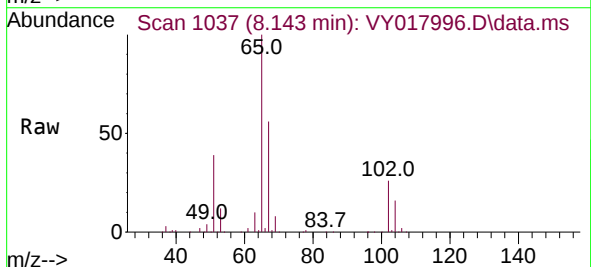
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-5

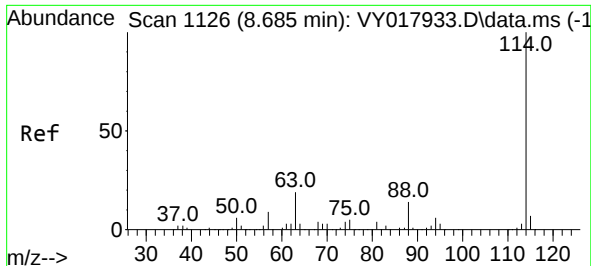
Tgt Ion: 43 Resp: 7450
Ion Ratio Lower Upper
43 100
72 22.6 27.3 40.9#



#33
1,2-Dichloroethane-d4
Concen: 52.67 ug/l
RT: 8.143 min Scan# 1037
Delta R.T. 0.000 min
Lab File: VY017996.D
Acq: 19 Apr 2024 14:10

Tgt Ion: 65 Resp: 160559
Ion Ratio Lower Upper
65 100
67 55.9 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY017996.D

Acq: 19 Apr 2024 14:10

Instrument :

MSVOA_Y

ClientSampleId :

TOPSOIL-LKWD-DENALI-5

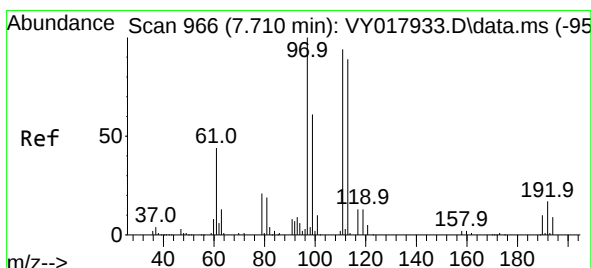
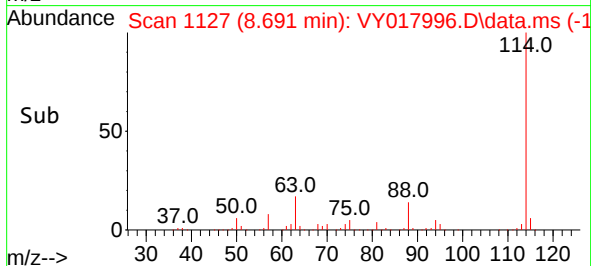
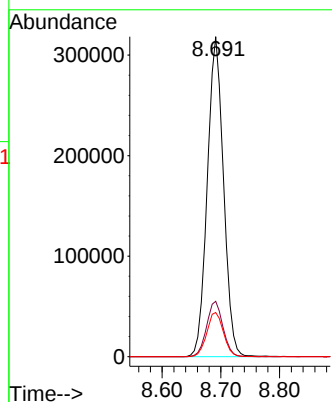
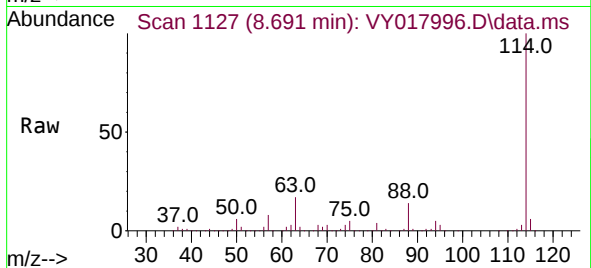
Tgt Ion:114 Resp: 609783

Ion Ratio Lower Upper

114 100

63 17.3 0.0 35.0

88 13.8 0.0 27.2



#35

Dibromofluoromethane

Concen: 50.49 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.006 min

Lab File: VY017996.D

Acq: 19 Apr 2024 14:10

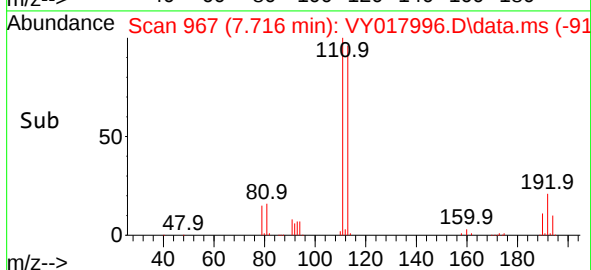
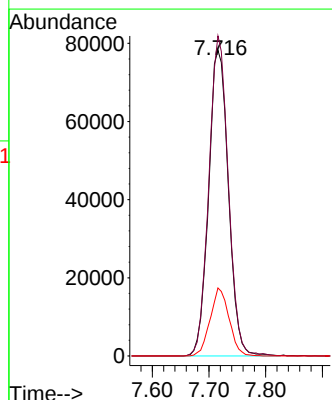
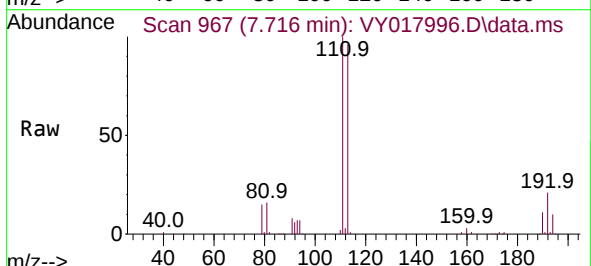
Tgt Ion:113 Resp: 189931

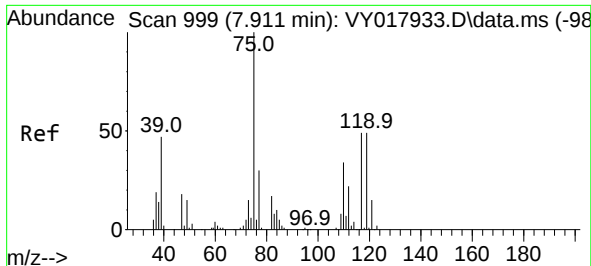
Ion Ratio Lower Upper

113 100

111 102.9 82.2 123.4

192 21.3 15.9 23.9

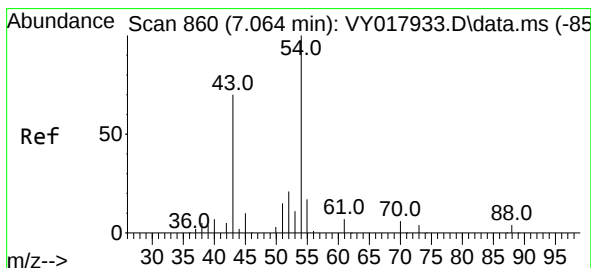
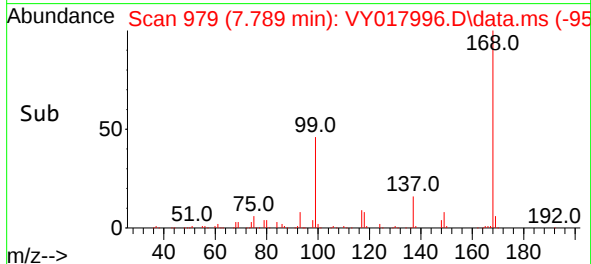
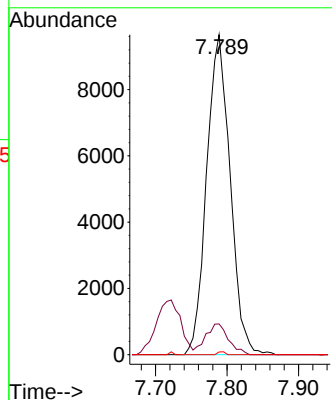
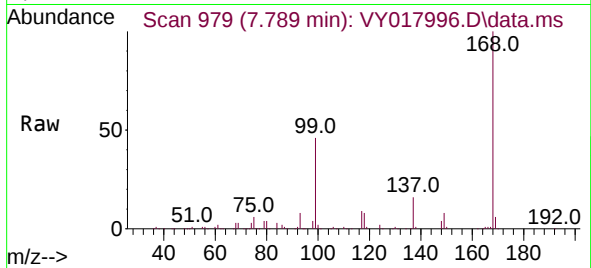




#36
1,1-Dichloropropene
Concen: 4.02 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY017996.D
Acq: 19 Apr 2024 14:10

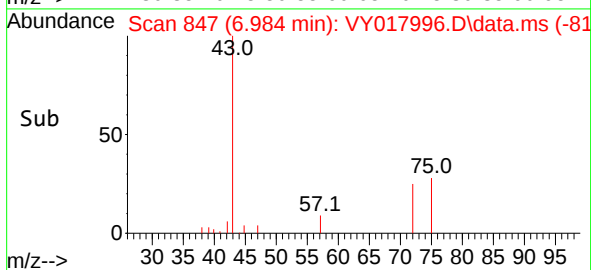
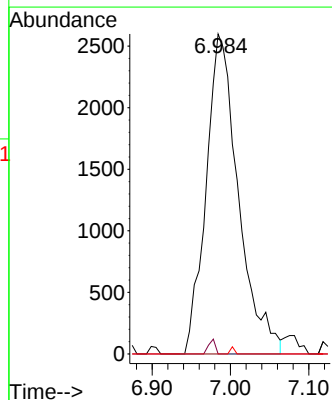
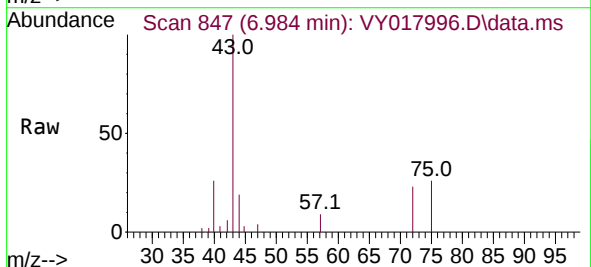
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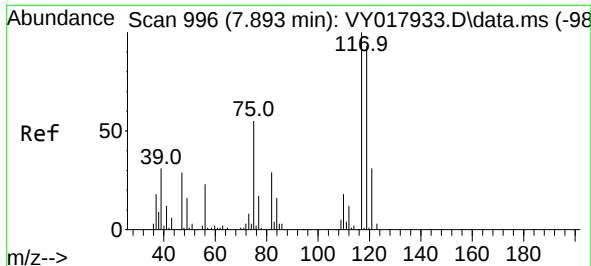
Tgt Ion: 75 Resp: 22017
Ion Ratio Lower Upper
75 100
110 9.4 19.0 57.0#
77 0.3 25.3 37.9#



#37
Ethyl Acetate
Concen: 3.31 ug/l
RT: 6.984 min Scan# 847
Delta R.T. -0.091 min
Lab File: VY017996.D
Acq: 19 Apr 2024 14:10

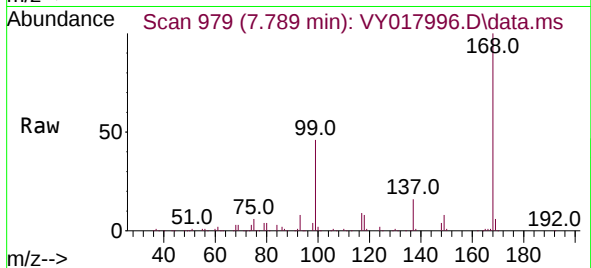
Tgt Ion: 43 Resp: 7450
Ion Ratio Lower Upper
43 100
61 1.0 12.6 19.0#
70 0.0 7.8 11.8#



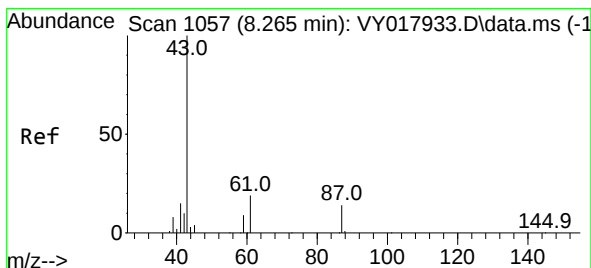
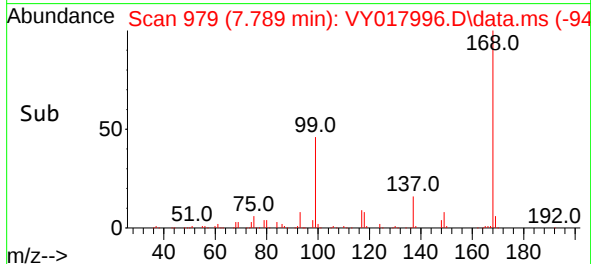
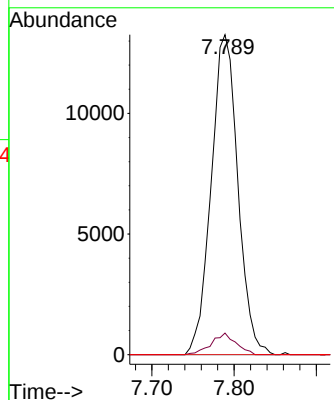


#38
Carbon Tetrachloride
Concen: 5.42 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY017996.D
Acq: 19 Apr 2024 14:10

Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-5

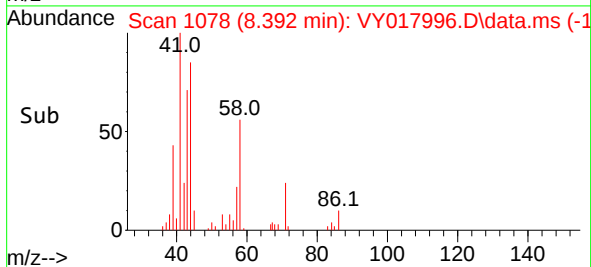
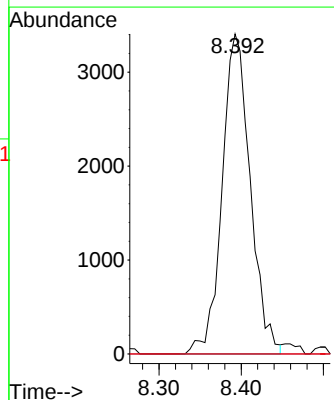
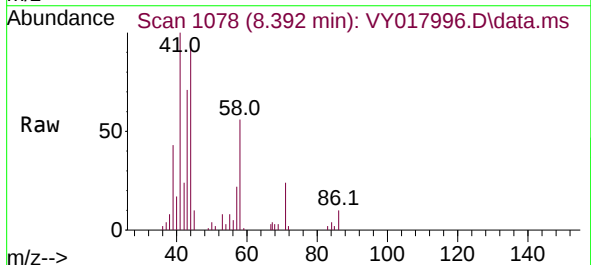


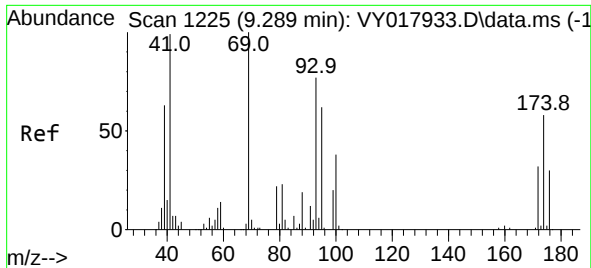
Tgt Ion:117 Resp: 29948
Ion Ratio Lower Upper
117 100
119 6.7 75.8 113.6#
121 0.0 24.0 36.0#



#43
Isopropyl Acetate
Concen: 1.93 ug/l
RT: 8.392 min Scan# 1078
Delta R.T. 0.122 min
Lab File: VY017996.D
Acq: 19 Apr 2024 14:10

Tgt Ion: 43 Resp: 8104
Ion Ratio Lower Upper
43 100
61 0.0 27.9 41.9#
87 0.0 13.1 19.7#

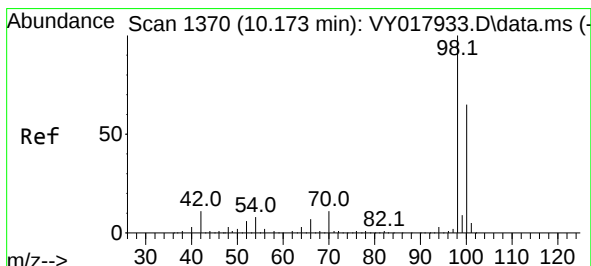
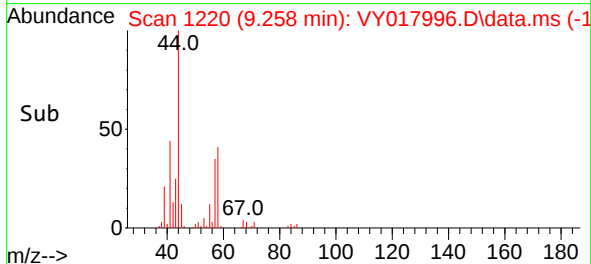
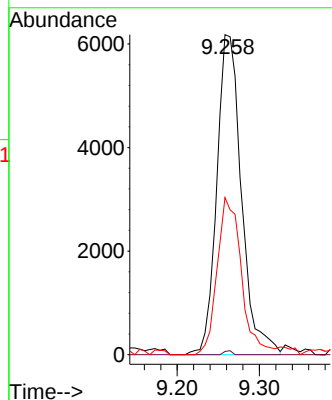
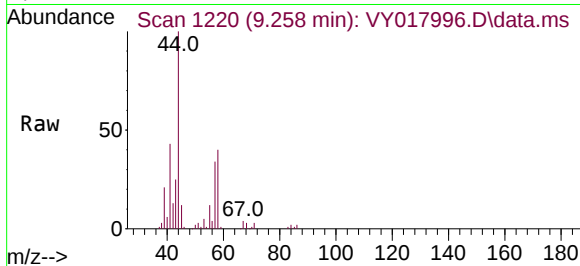




#48
Methyl methacrylate
Concen: 6.70 ug/l
RT: 9.258 min Scan# 11
Delta R.T. -0.036 min
Lab File: VY017996.D
Acq: 19 Apr 2024 14:10

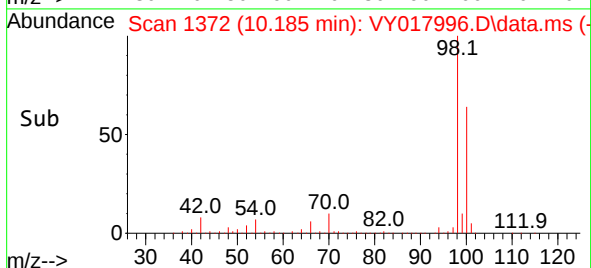
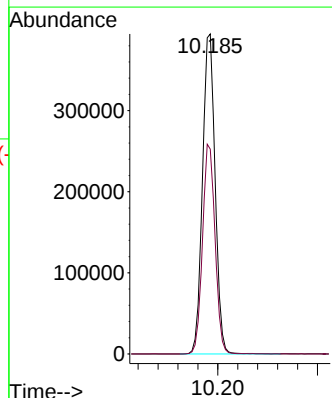
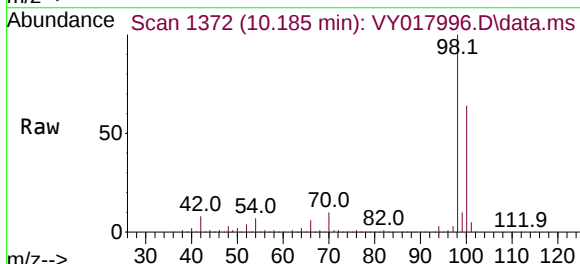
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-5

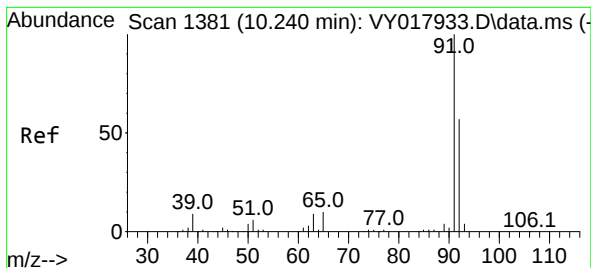
Tgt Ion: 41 Resp: 12884
Ion Ratio Lower Upper
41 100
69 0.4 84.1 126.1#
39 48.2 43.6 65.4



#50
Toluene-d8
Concen: 48.48 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. 0.006 min
Lab File: VY017996.D
Acq: 19 Apr 2024 14:10

Tgt Ion: 98 Resp: 692064
Ion Ratio Lower Upper
98 100
100 65.1 52.0 78.0





#52

Toluene

Concen: 1.55 ug/l

RT: 10.246 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY017996.D

Acq: 19 Apr 2024 14:10

Instrument :

MSVOA_Y

ClientSampleId :

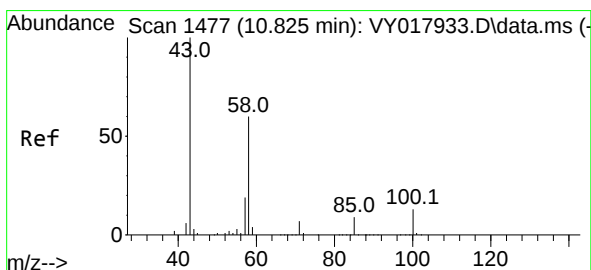
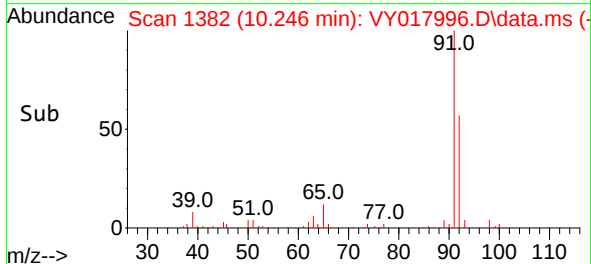
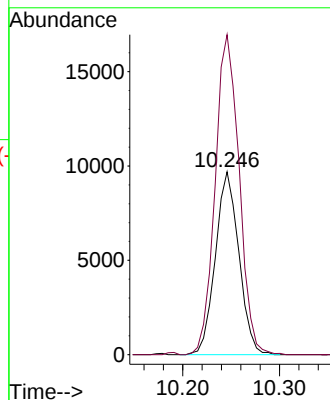
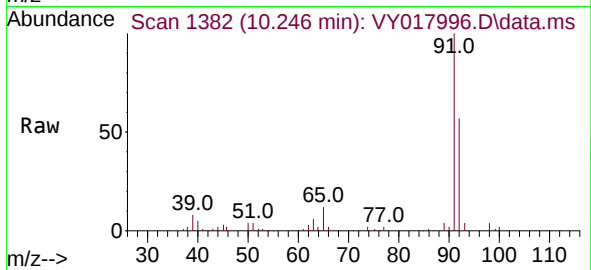
TOPSOIL-LKWD-DENALI-5

Tgt Ion: 92 Resp: 16326

Ion Ratio Lower Upper

92 100

91 178.8 139.0 208.6



#59

2-Hexanone

Concen: 32.55 ug/l

RT: 10.935 min Scan# 1495

Delta R.T. 0.104 min

Lab File: VY017996.D

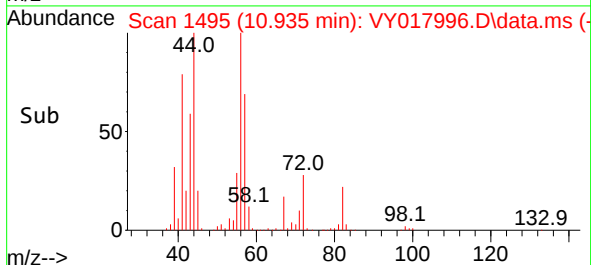
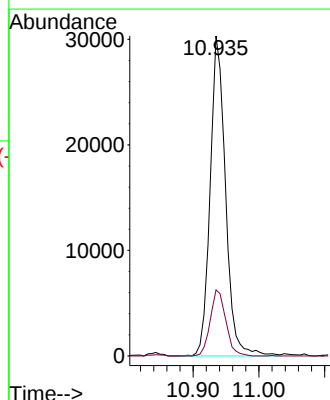
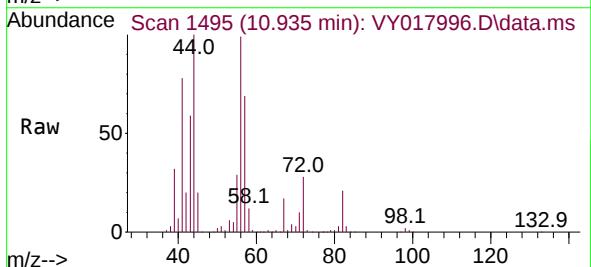
Acq: 19 Apr 2024 14:10

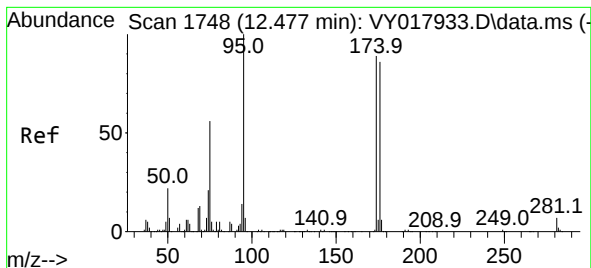
Tgt Ion: 43 Resp: 49421

Ion Ratio Lower Upper

43 100

58 20.9 31.4 94.0#





#62

4-Bromofluorobenzene

Concen: 39.64 ug/l

RT: 12.483 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY017996.D

Acq: 19 Apr 2024 14:10

Instrument :

MSVOA_Y

ClientSampleId :

TOPSOIL-LKWD-DENALI-5

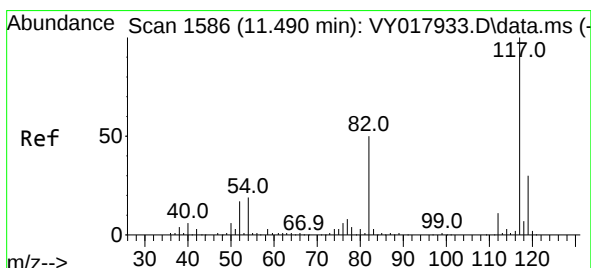
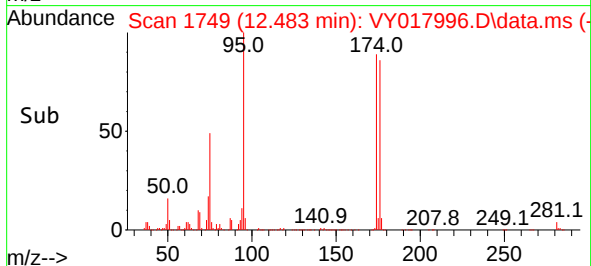
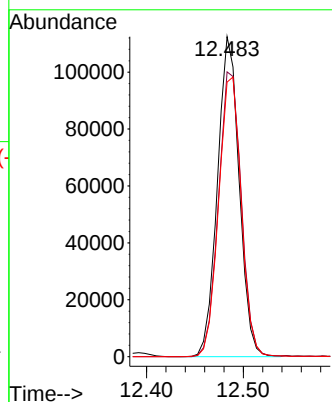
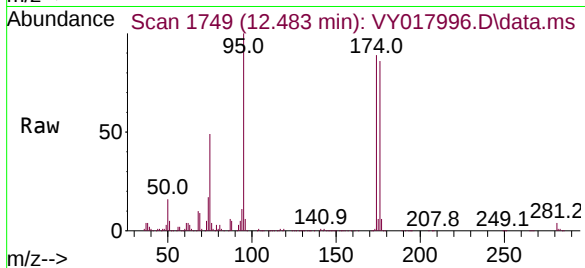
Tgt Ion: 95 Resp: 175256

Ion Ratio Lower Upper

95 100

174 93.5 0.0 175.6

176 91.1 0.0 171.4



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.496 min Scan# 1587

Delta R.T. 0.006 min

Lab File: VY017996.D

Acq: 19 Apr 2024 14:10

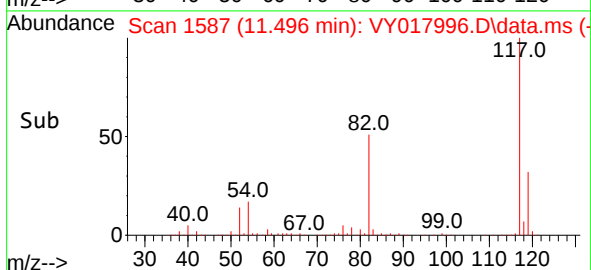
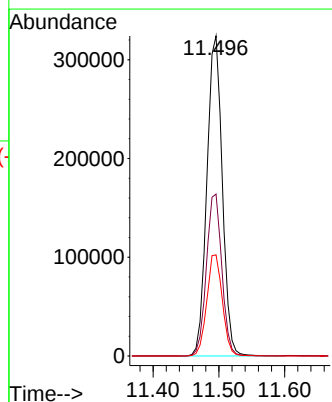
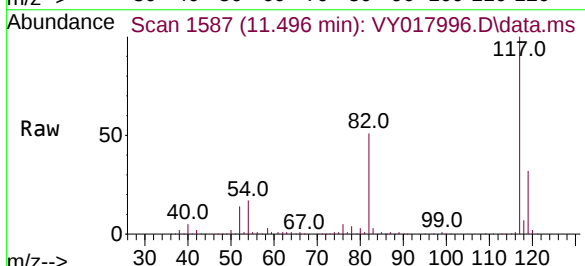
Tgt Ion: 117 Resp: 527193

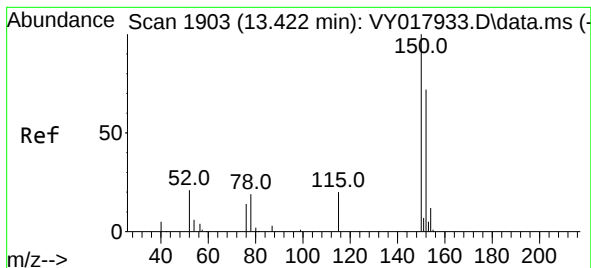
Ion Ratio Lower Upper

117 100

82 50.6 42.4 63.6

119 31.6 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.428 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY017996.D

Acq: 19 Apr 2024 14:10

Instrument :

MSVOA_Y

ClientSampleId :

TOPSOIL-LKWD-DENALI-5

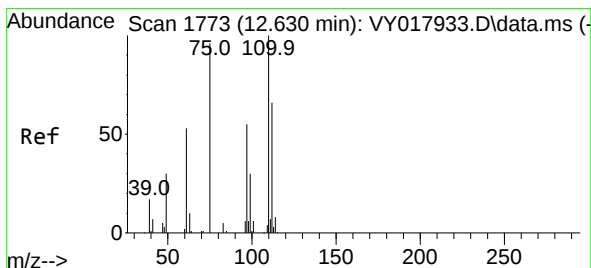
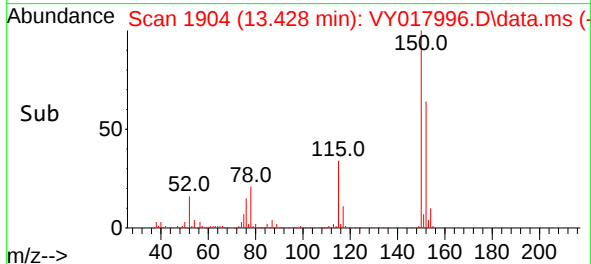
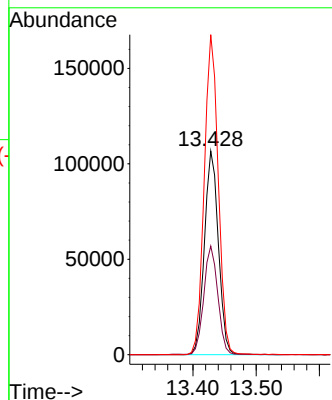
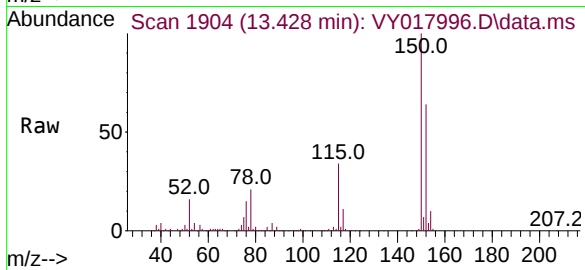
Tgt Ion:152 Resp: 164090

Ion Ratio Lower Upper

152 100

115 53.5 28.2 84.7

150 157.5 0.0 345.6



#76

1,2,3-Trichloropropane

Concen: 54.84 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.152 min

Lab File: VY017996.D

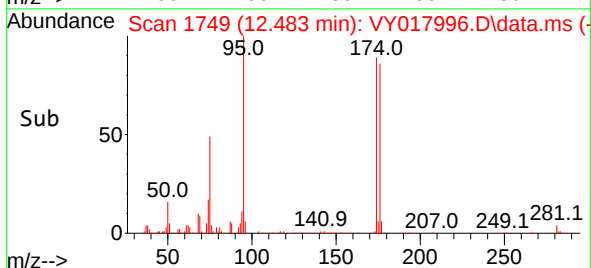
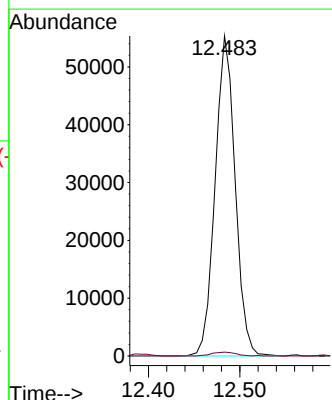
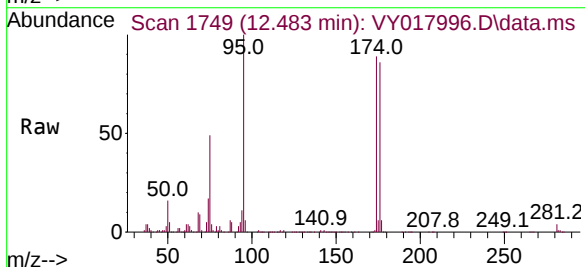
Acq: 19 Apr 2024 14:10

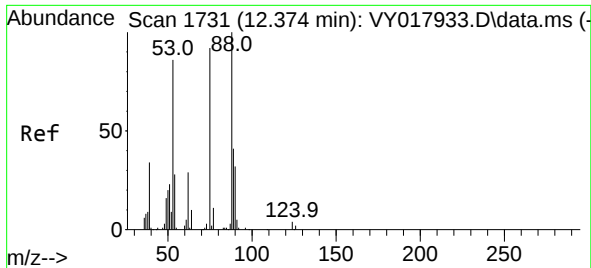
Tgt Ion: 75 Resp: 84436

Ion Ratio Lower Upper

75 100

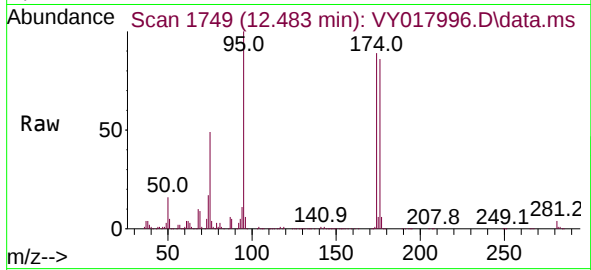
77 1.5 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 113.06 ug/l
 RT: 12.483 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VY017996.D
 Acq: 19 Apr 2024 14:10

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOPSOIL-LKWD-DENALI-5



Tgt Ion: 75 Resp: 84436
 Ion Ratio Lower Upper
 75 100
 53 0.2 66.8 100.2#
 89 0.0 35.8 53.6#

