

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041924\
 Data File : VY017997.D
 Acq On : 19 Apr 2024 14:34
 Operator : SY/MD
 Sample : P2178-05
 Misc : 4.01g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOPSOIL-LKWD-DENALI-6

Quant Time: Apr 19 23:25:07 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)

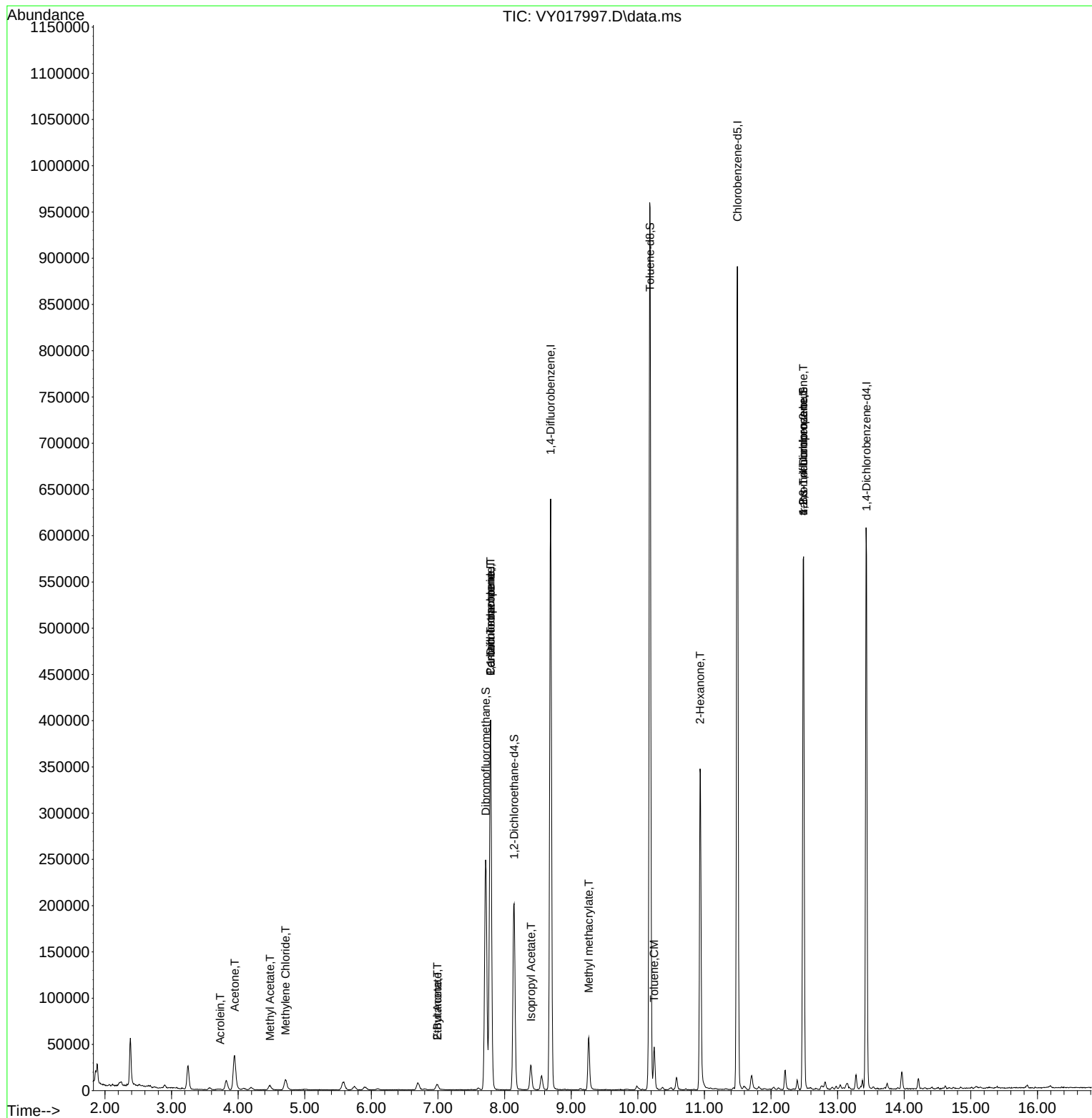
Internal Standards						
1) Pentafluorobenzene	7.789	168	338441	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	589325	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	524340	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	171900	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	154409	52.72	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.44%			
35) Dibromofluoromethane	7.716	113	183812	50.56	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.12%			
50) Toluene-d8	10.185	98	669677	48.54	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.08%			
62) 4-Bromofluorobenzene	12.483	95	176909	41.40	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 82.80%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.954	59	624	Below Cal	#	88
13) Acrolein	3.729	56	783	3.43	ug/l #	1
16) Acetone	3.948	43	64373	111.24	ug/l	91
18) Methyl Acetate	4.478	43	8712	5.72	ug/l	98
20) Methylene Chloride	4.710	84	8803	2.25	ug/l	93
25) 2-Butanone	6.990	43	8270	9.72	ug/l #	86
36) 1,1-Dichloropropene	7.789	75	21897	4.14	ug/l #	49
37) Ethyl Acetate	6.990	43	8270	3.80	ug/l #	67
38) Carbon Tetrachloride	7.789	117	29046	5.44	ug/l #	16
43) Isopropyl Acetate	8.398	43	8086	1.99	ug/l #	47
48) Methyl methacrylate	9.264	41	13689	7.37	ug/l #	33
52) Toluene	10.246	92	19488	1.92	ug/l	99
59) 2-Hexanone	10.935	43	52657	35.88	ug/l #	45
76) 1,2,3-Trichloropropane	12.483	75	83526	51.78	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	83526	106.76	ug/l #	16

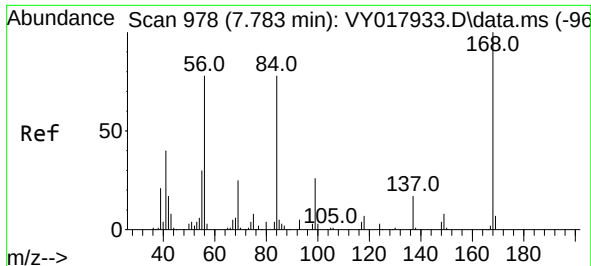
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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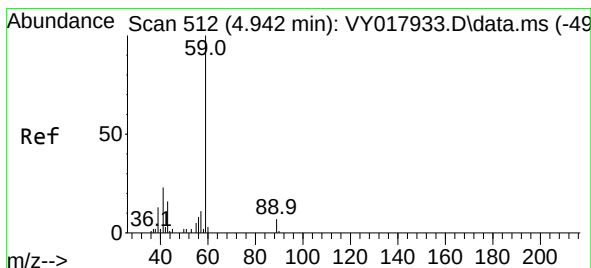
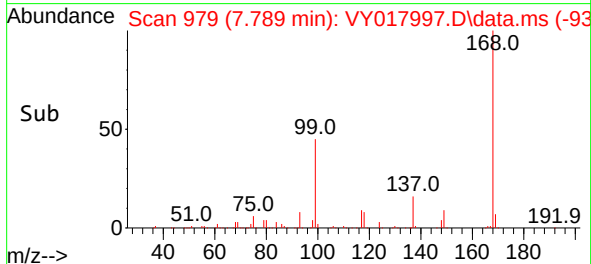
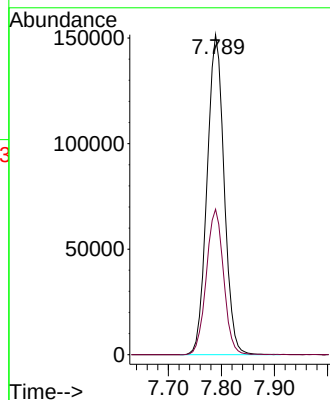
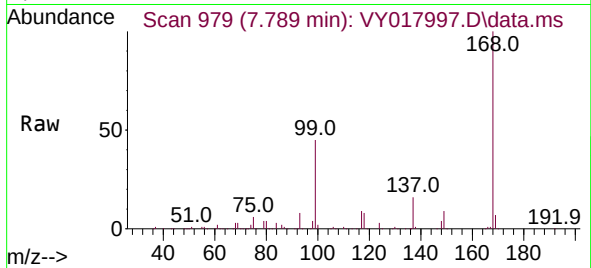




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY017997.D
Acq: 19 Apr 2024 14:34

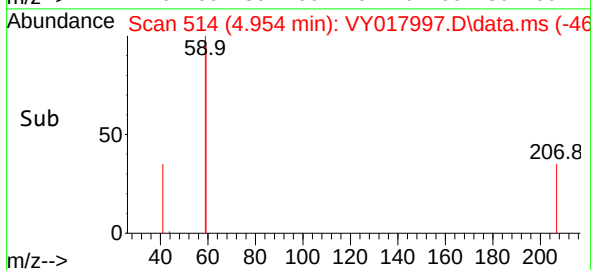
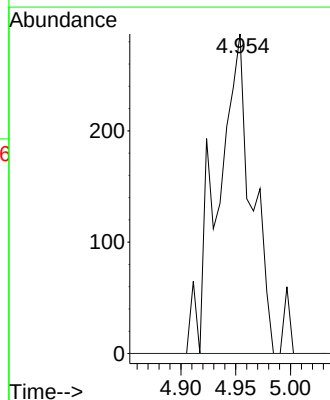
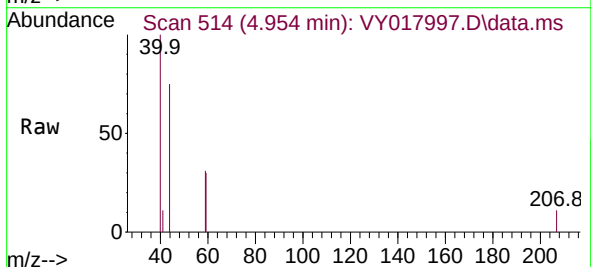
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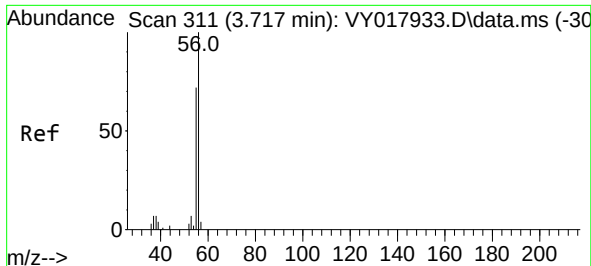
Tgt Ion:168 Resp: 338441
Ion Ratio Lower Upper
168 100
99 45.5 39.1 58.7



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.954 min Scan# 514
Delta R.T. -0.000 min
Lab File: VY017997.D
Acq: 19 Apr 2024 14:34

Tgt Ion: 59 Resp: 624
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.6#





#13

Acrolein

Concen: 3.43 ug/l

RT: 3.729 min Scan# 311

Delta R.T. -0.000 min

Lab File: VY017997.D

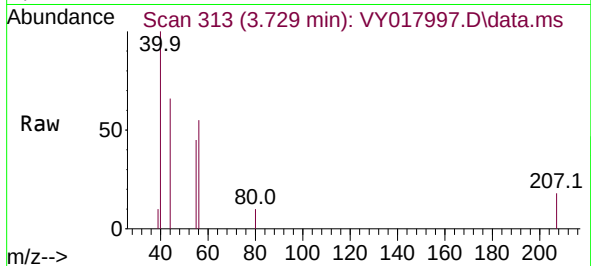
Acq: 19 Apr 2024 14:34

Instrument :

MSVOA_Y

ClientSampleId :

TOPSOIL-LKWD-DENALI-6

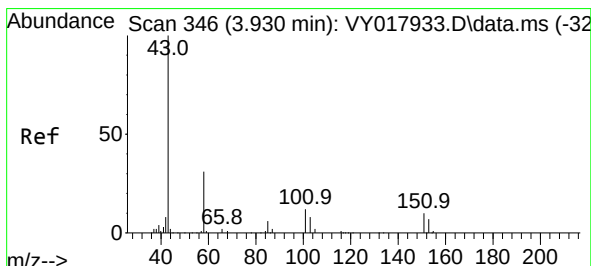
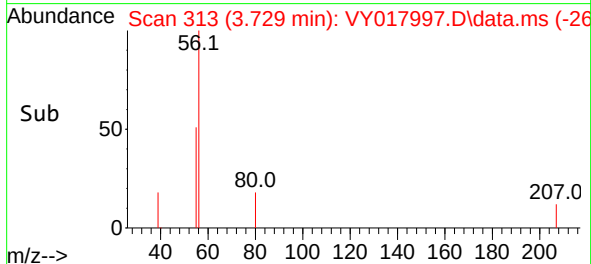
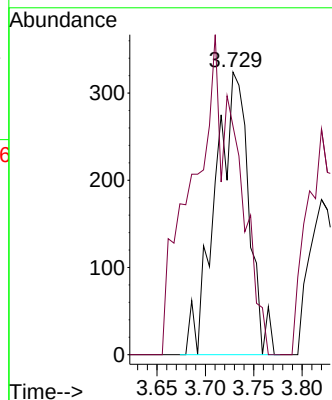


Tgt Ion: 56 Resp: 783

Ion Ratio Lower Upper

56 100

55 152.4 55.7 83.5#



#16

Acetone

Concen: 111.24 ug/l

RT: 3.948 min Scan# 349

Delta R.T. -0.000 min

Lab File: VY017997.D

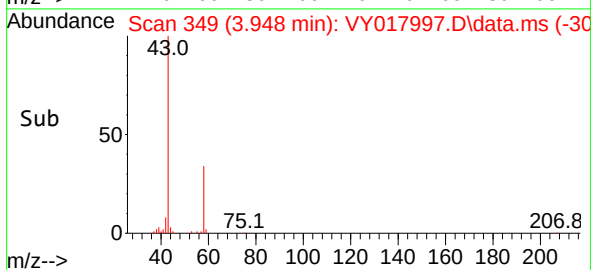
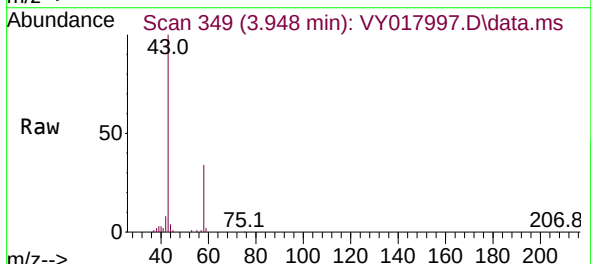
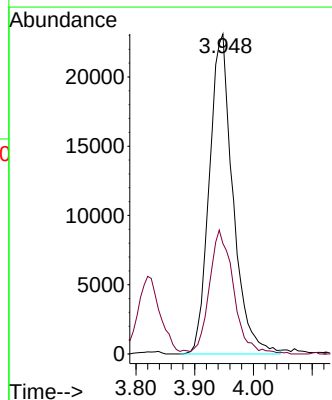
Acq: 19 Apr 2024 14:34

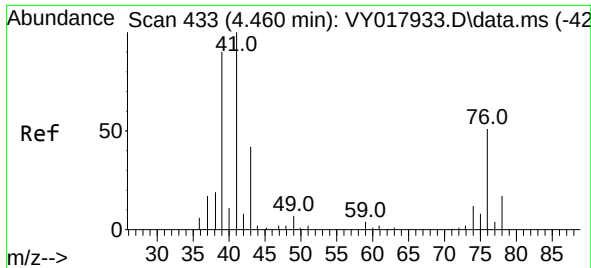
Tgt Ion: 43 Resp: 64373

Ion Ratio Lower Upper

43 100

58 33.9 31.7 47.5

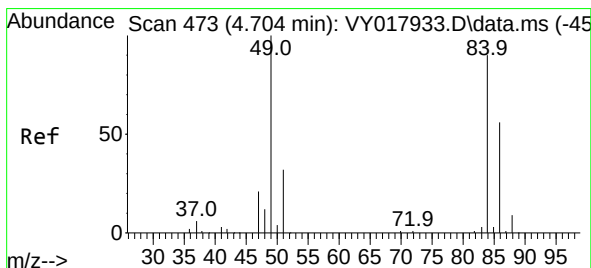
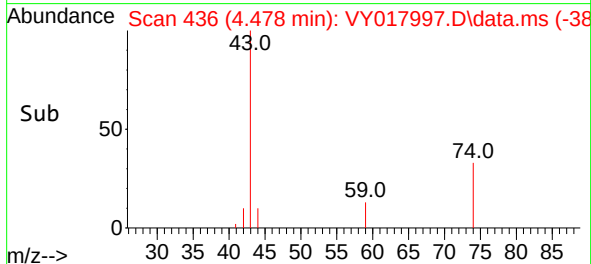
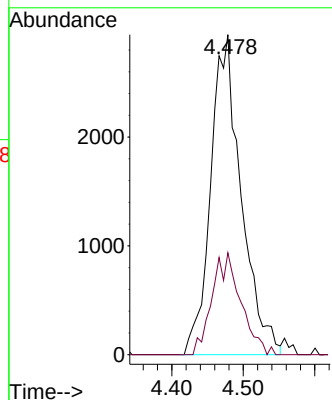
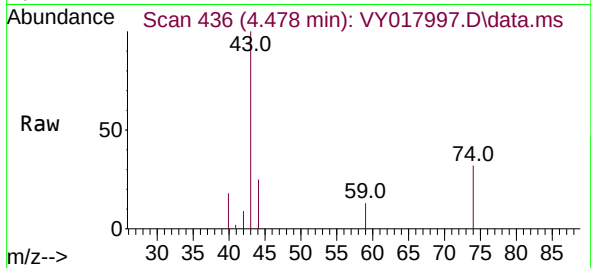




#18
Methyl Acetate
Concen: 5.72 ug/l
RT: 4.478 min Scan# 41
Delta R.T. -0.000 min
Lab File: VY017997.D
Acq: 19 Apr 2024 14:34

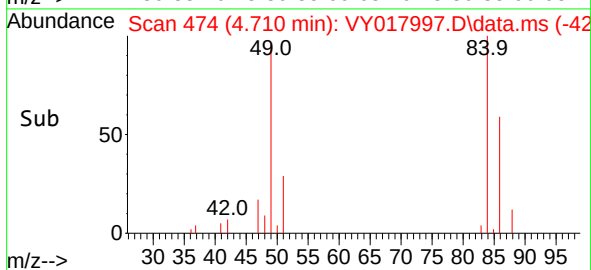
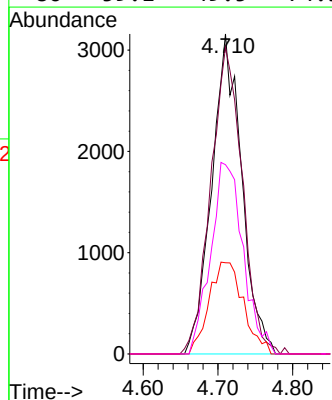
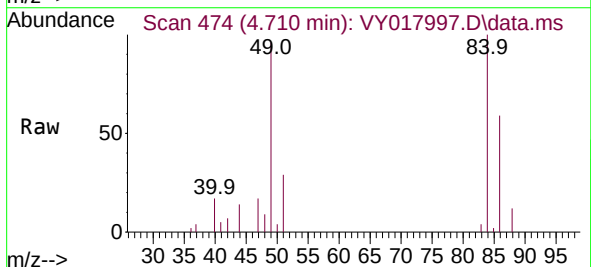
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-6

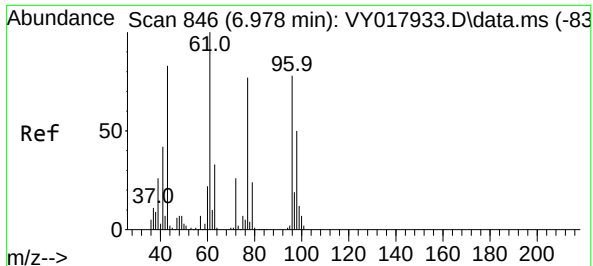
Tgt Ion: 43 Resp: 8712
Ion Ratio Lower Upper
43 100
74 30.1 23.3 34.9



#20
Methylene Chloride
Concen: 2.25 ug/l
RT: 4.710 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY017997.D
Acq: 19 Apr 2024 14:34

Tgt Ion: 84 Resp: 8803
Ion Ratio Lower Upper
84 100
49 95.8 84.4 126.6
51 28.5 26.0 39.0
86 59.1 49.5 74.3





#25

2-Butanone

Concen: 9.72 ug/l

RT: 6.990 min Scan# 84

Delta R.T. 0.006 min

Lab File: VY017997.D

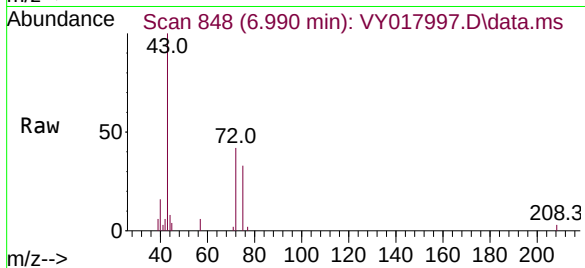
Acq: 19 Apr 2024 14:34

Instrument :

MSVOA_Y

ClientSampleId :

TOPSOIL-LKWD-DENALI-6

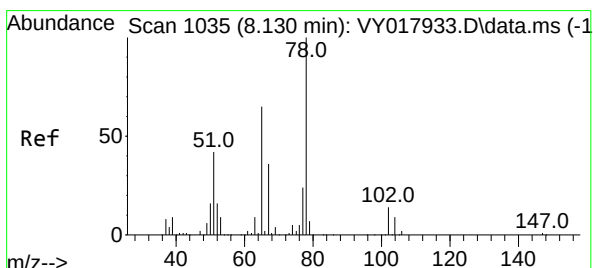
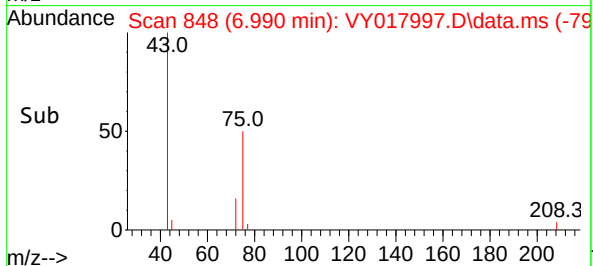
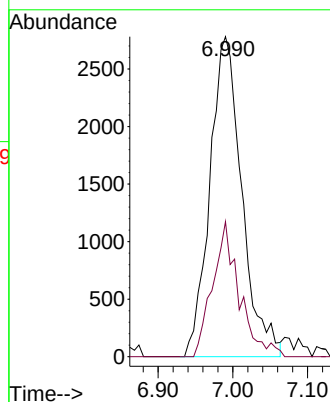


Tgt Ion: 43 Resp: 8270

Ion Ratio Lower Upper

43 100

72 42.2 27.3 40.9#



#33

1,2-Dichloroethane-d4

Concen: 52.72 ug/l

RT: 8.142 min Scan# 1037

Delta R.T. -0.000 min

Lab File: VY017997.D

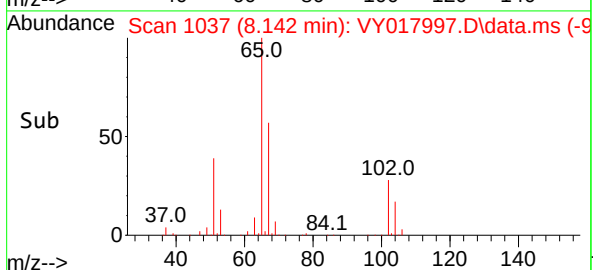
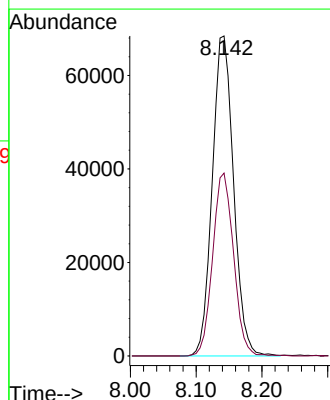
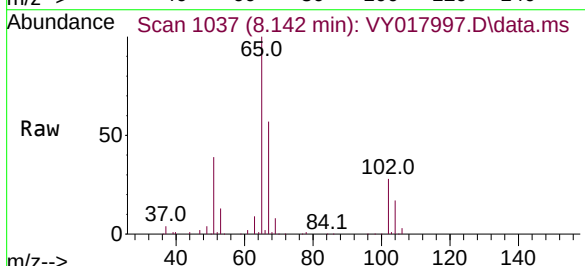
Acq: 19 Apr 2024 14:34

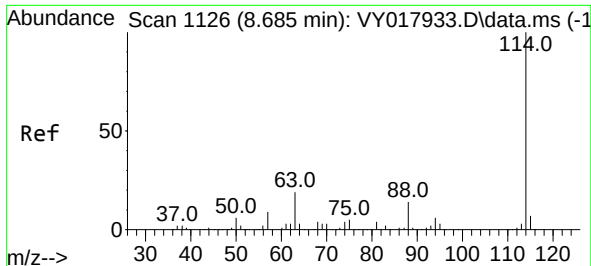
Tgt Ion: 65 Resp: 154409

Ion Ratio Lower Upper

65 100

67 56.2 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: VY017997.D

Acq: 19 Apr 2024 14:34

Instrument :

MSVOA_Y

ClientSampleId :

TOPSOIL-LKWD-DENALI-6

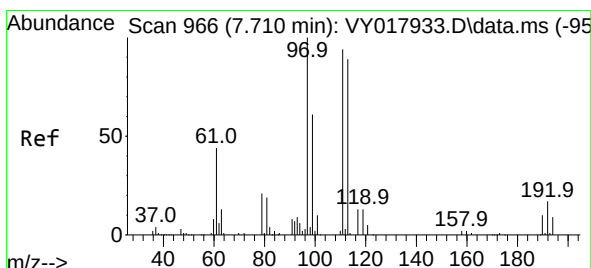
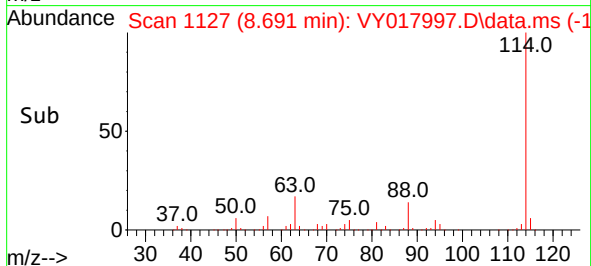
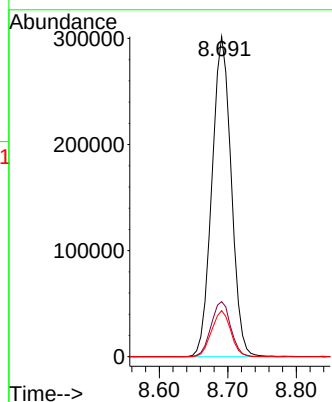
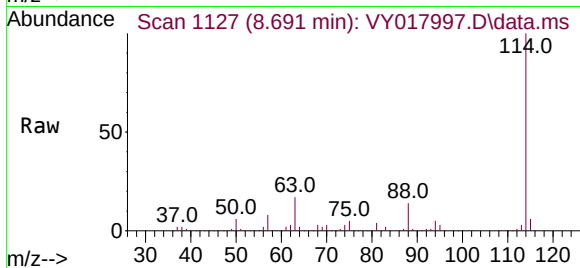
Tgt Ion:114 Resp: 589325

Ion Ratio Lower Upper

114 100

63 17.2 0.0 35.0

88 14.4 0.0 27.2



#35

Dibromofluoromethane

Concen: 50.56 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.006 min

Lab File: VY017997.D

Acq: 19 Apr 2024 14:34

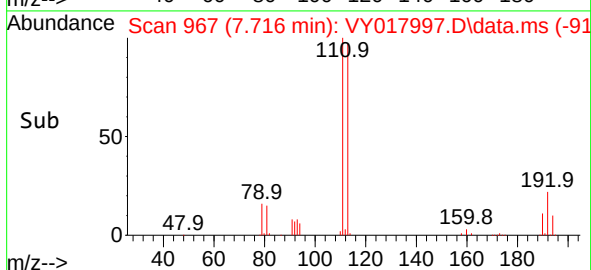
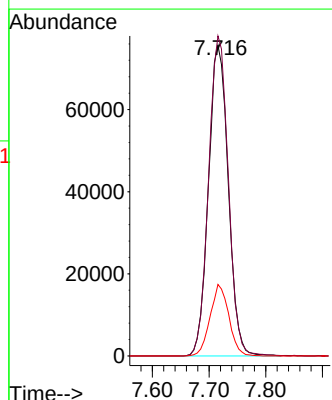
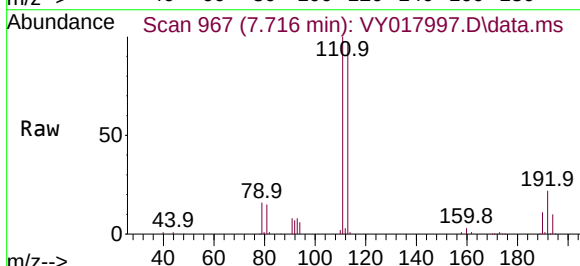
Tgt Ion:113 Resp: 183812

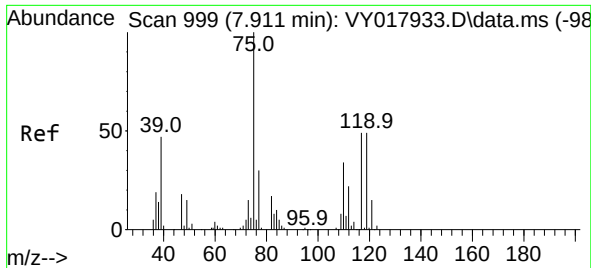
Ion Ratio Lower Upper

113 100

111 102.5 82.2 123.4

192 21.8 15.9 23.9

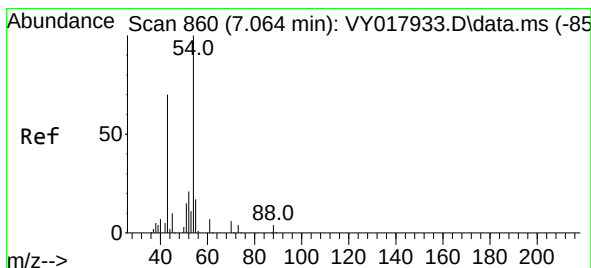
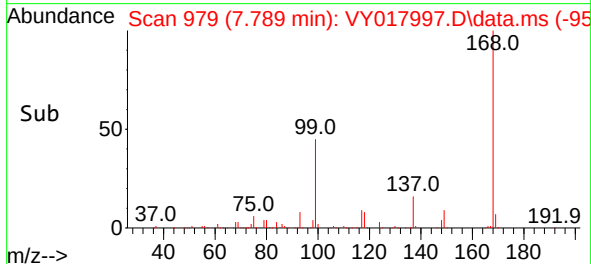
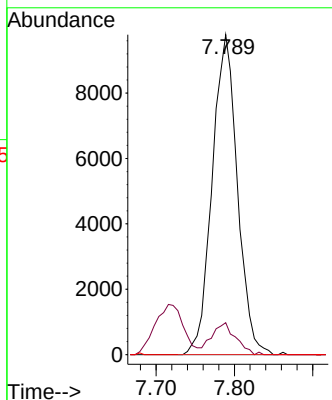
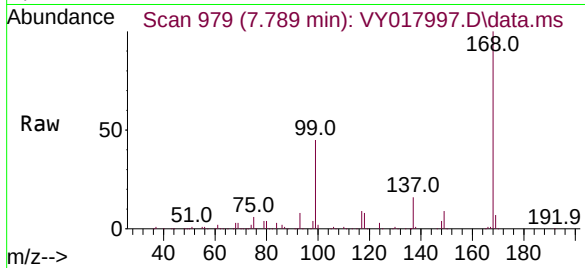




#36
1,1-Dichloropropene
Concen: 4.14 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY017997.D
Acq: 19 Apr 2024 14:34

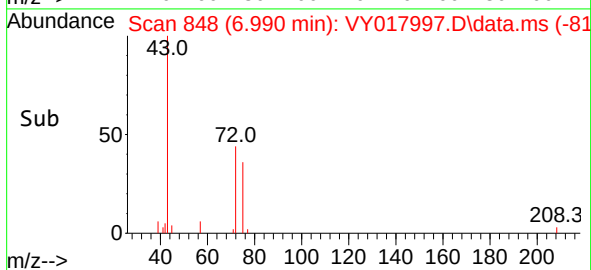
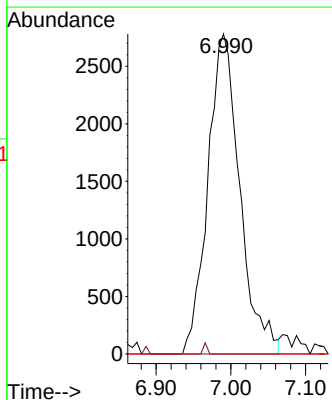
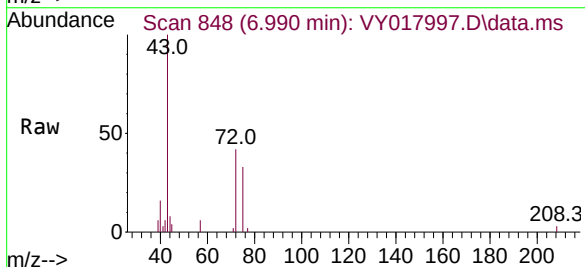
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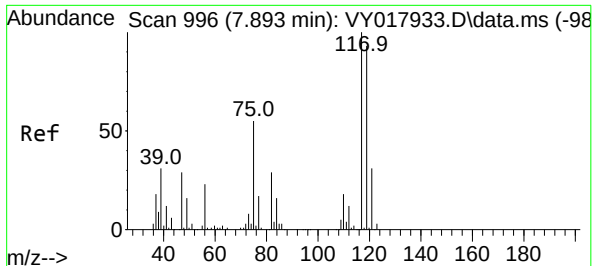
Tgt Ion: 75 Resp: 21897
Ion Ratio Lower Upper
75 100
110 9.7 19.0 57.0#
77 0.0 25.3 37.9#



#37
Ethyl Acetate
Concen: 3.80 ug/l
RT: 6.990 min Scan# 848
Delta R.T. -0.085 min
Lab File: VY017997.D
Acq: 19 Apr 2024 14:34

Tgt Ion: 43 Resp: 8270
Ion Ratio Lower Upper
43 100
61 0.0 12.6 19.0#
70 0.0 7.8 11.8#

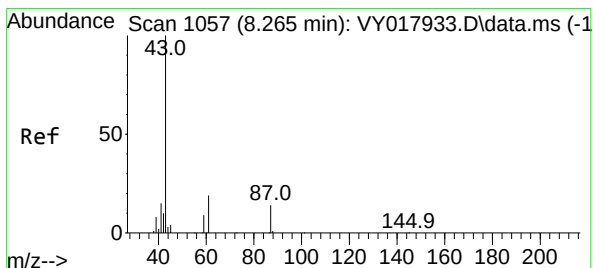
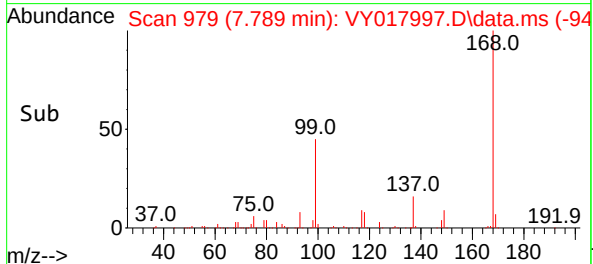
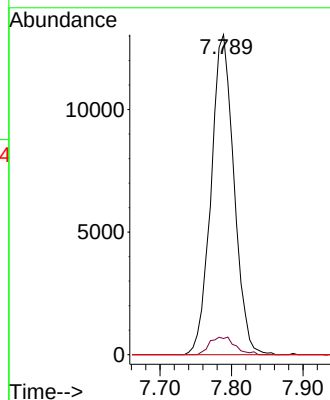
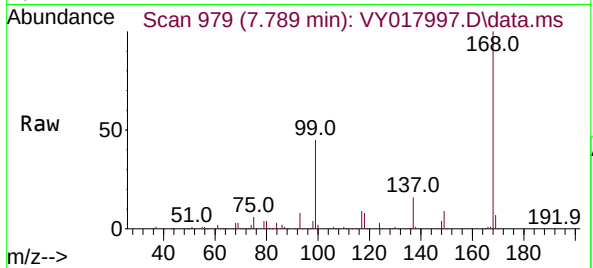




#38
Carbon Tetrachloride
Concen: 5.44 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY017997.D
Acq: 19 Apr 2024 14:34

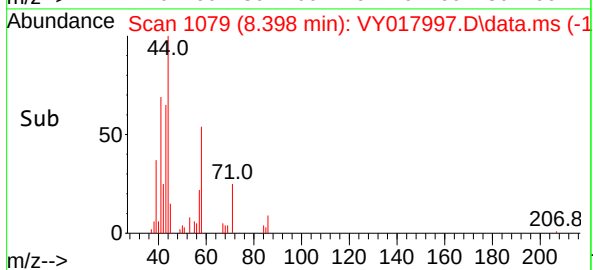
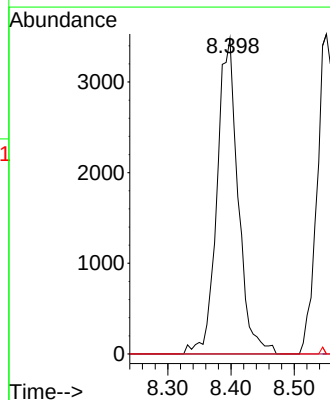
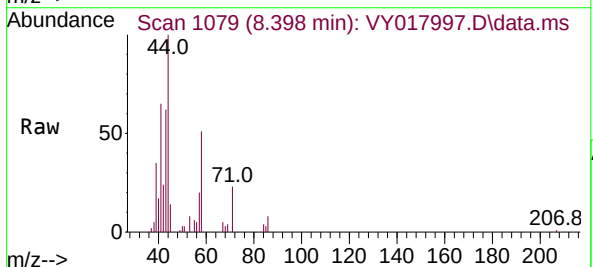
Instrument :
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TOPSOIL-LKWD-DENALI-6

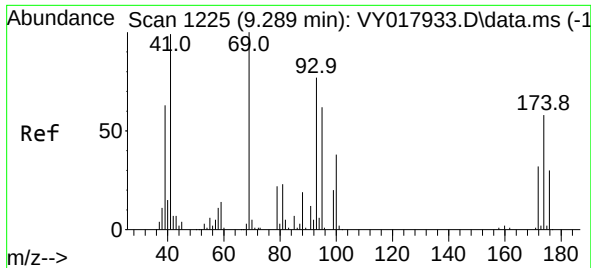
Tgt Ion:117 Resp: 29046
Ion Ratio Lower Upper
117 100
119 5.0 75.8 113.6#
121 0.0 24.0 36.0#



#43
Isopropyl Acetate
Concen: 1.99 ug/l
RT: 8.398 min Scan# 1079
Delta R.T. 0.128 min
Lab File: VY017997.D
Acq: 19 Apr 2024 14:34

Tgt Ion: 43 Resp: 8086
Ion Ratio Lower Upper
43 100
61 0.0 27.9 41.9#
87 0.0 13.1 19.7#

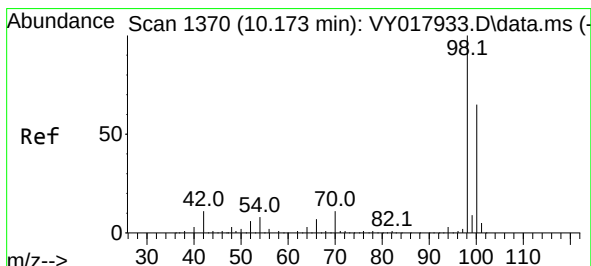
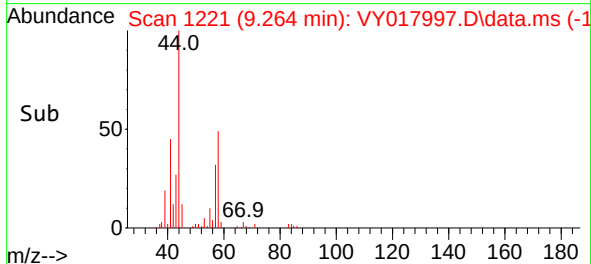
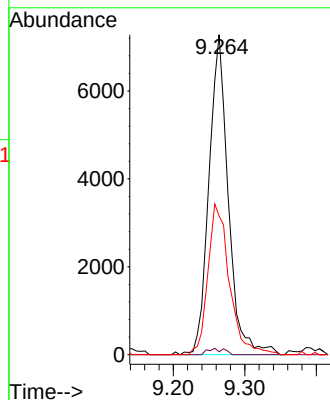
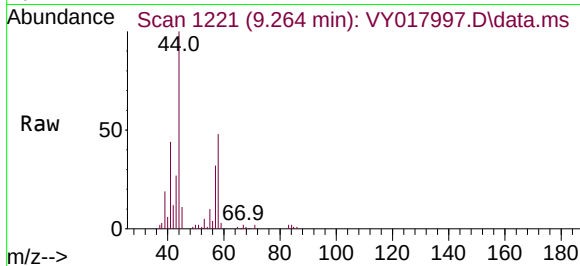




#48
Methyl methacrylate
Concen: 7.37 ug/l
RT: 9.264 min Scan# 11
Delta R.T. -0.031 min
Lab File: VY017997.D
Acq: 19 Apr 2024 14:34

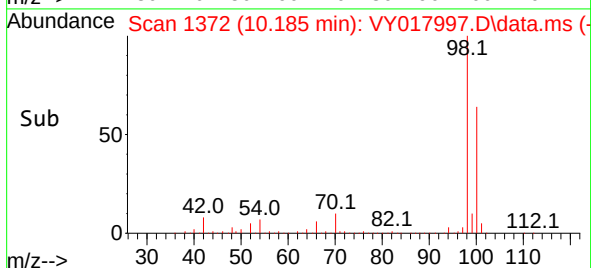
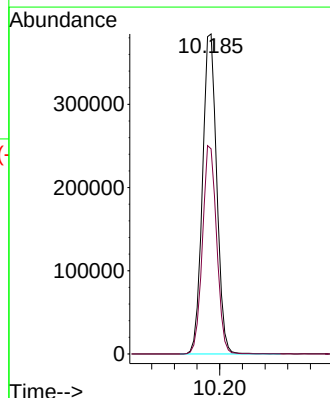
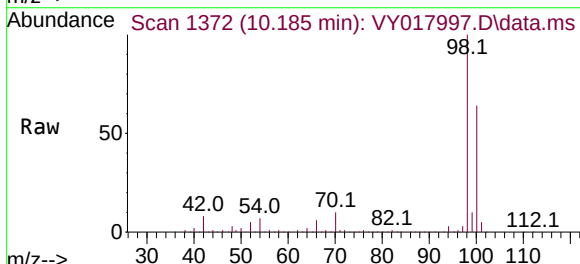
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-6

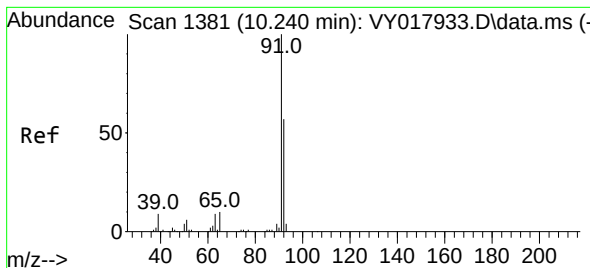
Tgt Ion: 41 Resp: 13689
Ion Ratio Lower Upper
41 100
69 1.7 84.1 126.1#
39 52.4 43.6 65.4



#50
Toluene-d8
Concen: 48.54 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. 0.006 min
Lab File: VY017997.D
Acq: 19 Apr 2024 14:34

Tgt Ion: 98 Resp: 669677
Ion Ratio Lower Upper
98 100
100 65.0 52.0 78.0





#52

Toluene

Concen: 1.92 ug/l

RT: 10.246 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY017997.D

Acq: 19 Apr 2024 14:34

Instrument :

MSVOA_Y

ClientSampleId :

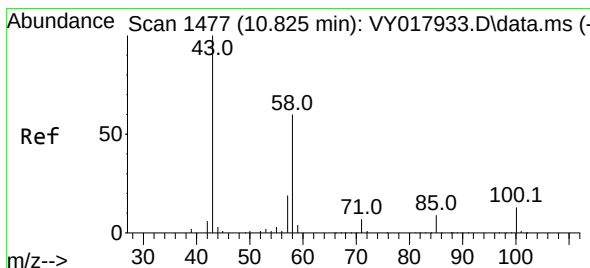
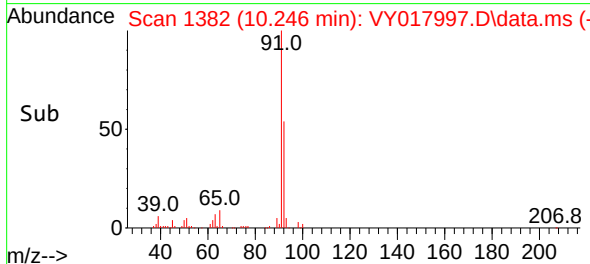
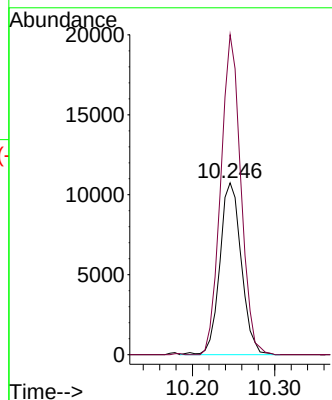
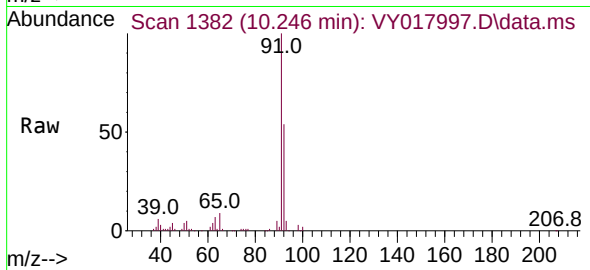
TOPSOIL-LKWD-DENALI-6

Tgt Ion: 92 Resp: 19488

Ion Ratio Lower Upper

92 100

91 174.5 139.0 208.6



#59

2-Hexanone

Concen: 35.88 ug/l

RT: 10.935 min Scan# 1495

Delta R.T. 0.104 min

Lab File: VY017997.D

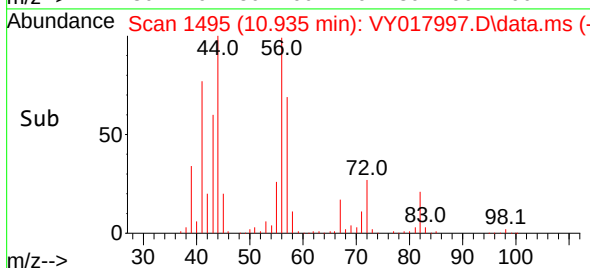
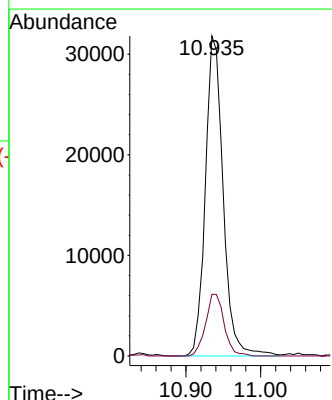
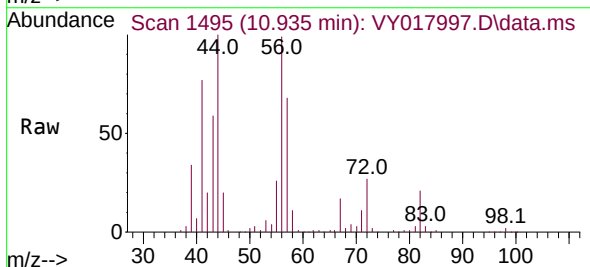
Acq: 19 Apr 2024 14:34

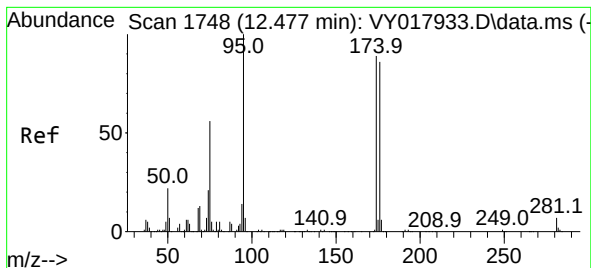
Tgt Ion: 43 Resp: 52657

Ion Ratio Lower Upper

43 100

58 20.1 31.4 94.0#

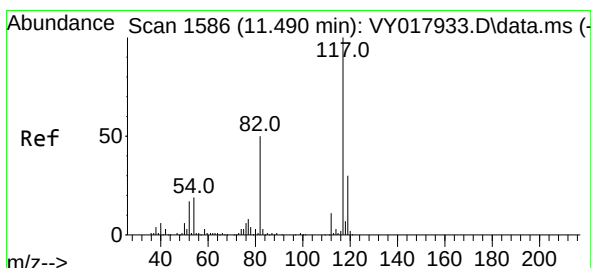
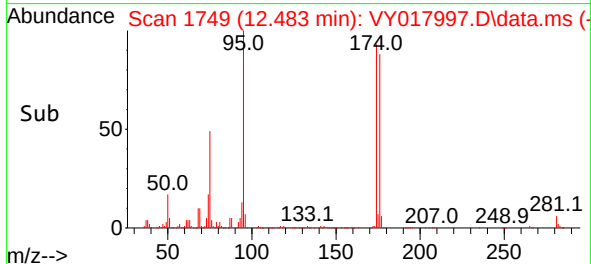
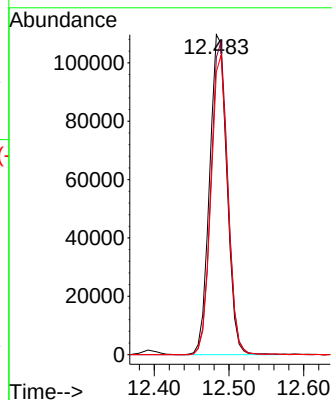
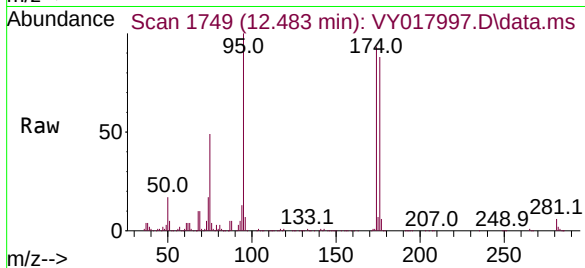




#62
4-Bromofluorobenzene
Concen: 41.40 ug/l
RT: 12.483 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY017997.D
Acq: 19 Apr 2024 14:34

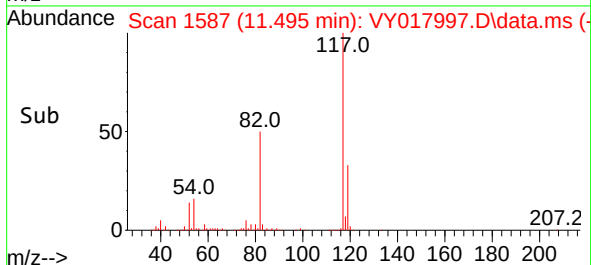
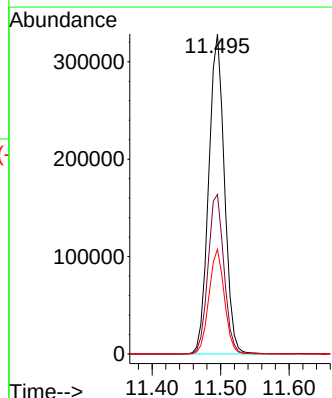
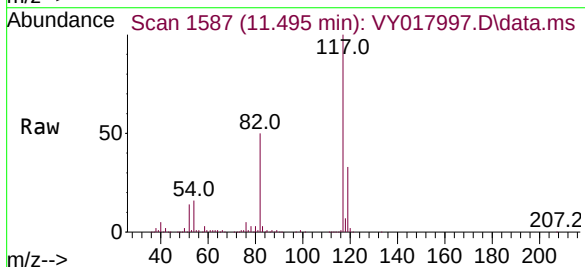
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-6

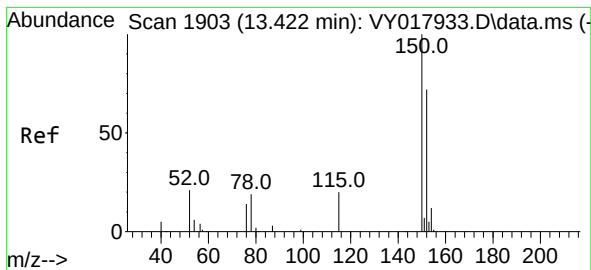
Tgt Ion: 95 Resp: 176909
Ion Ratio Lower Upper
95 100
174 95.2 0.0 175.6
176 90.9 0.0 171.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.495 min Scan# 1587
Delta R.T. 0.006 min
Lab File: VY017997.D
Acq: 19 Apr 2024 14:34

Tgt Ion:117 Resp: 524340
Ion Ratio Lower Upper
117 100
82 49.8 42.4 63.6
119 32.8 25.9 38.9

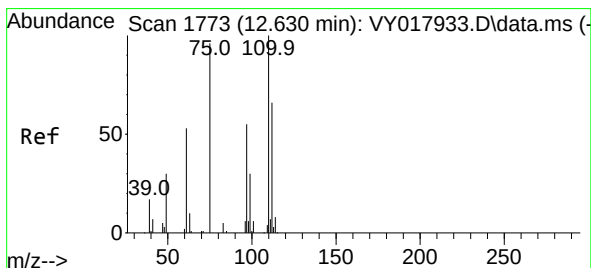
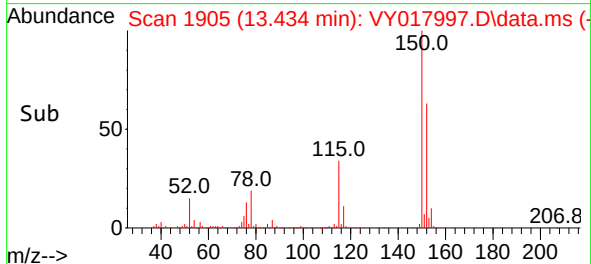
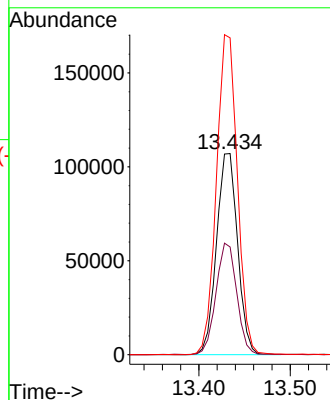
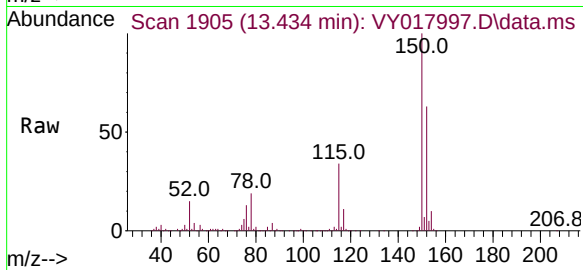




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.434 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY017997.D
Acq: 19 Apr 2024 14:34

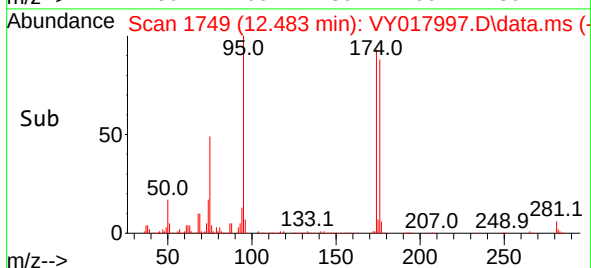
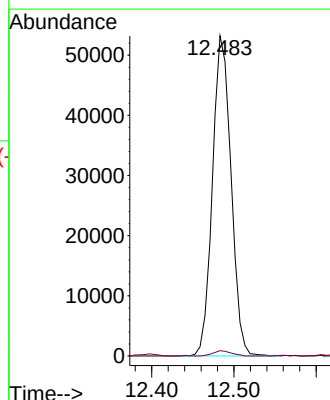
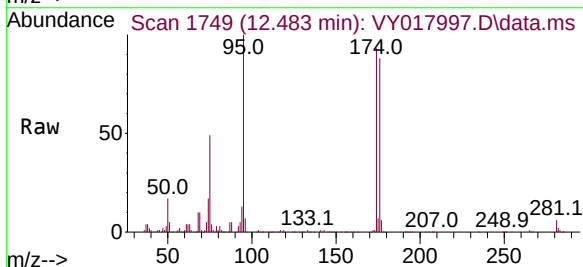
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-6

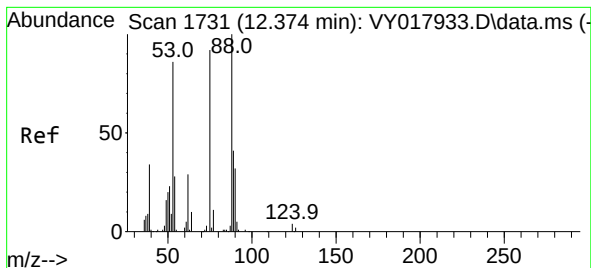
Tgt Ion:152 Resp: 171900
Ion Ratio Lower Upper
152 100
115 54.4 28.2 84.7
150 158.0 0.0 345.6



#76
1,2,3-Trichloropropane
Concen: 51.78 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.152 min
Lab File: VY017997.D
Acq: 19 Apr 2024 14:34

Tgt Ion: 75 Resp: 83526
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 106.76 ug/l

RT: 12.483 min Scan# 11

Delta R.T. 0.104 min

Lab File: VY017997.D

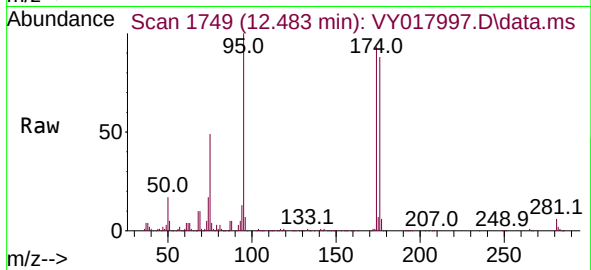
Acq: 19 Apr 2024 14:34

Instrument :

MSVOA_Y

ClientSampleId :

TOPSOIL-LKWD-DENALI-6



Tgt Ion: 75 Resp: 83526

Ion Ratio Lower Upper

75 100

53 0.3 66.8 100.2#

89 0.2 35.8 53.6#

