

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041824\
 Data File : VY017982.D
 Acq On : 18 Apr 2024 17:38
 Operator : SY/MD
 Sample : P2178-01
 Misc : 4.17g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOPSOIL-LKWD-DENALI-4

Quant Time: Apr 19 02:03:44 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	7.795	168	328147	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	596084	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	523361	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	166683	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.148	65	160797	56.62	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	113.24%
35) Dibromofluoromethane	7.722	113	188332	51.21	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	102.42%
50) Toluene-d8	10.185	98	689418	49.41	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.82%
62) 4-Bromofluorobenzene	12.489	95	192340	44.51	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	89.02%

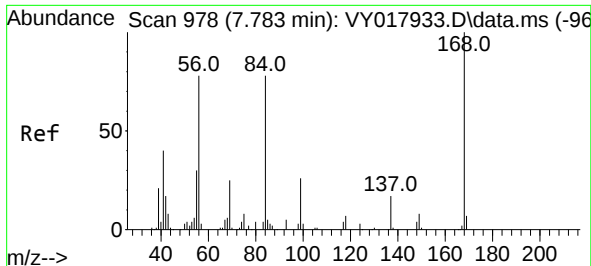
Target Compounds

						Qvalue
11) Tert butyl alcohol	4.972	59	499	Below Cal	#	88
13) Acrolein	3.728	56	384	1.74	ug/l #	15
16) Acetone	3.948	43	47346	84.38	ug/l	89
18) Methyl Acetate	4.484	43	5910	4.00	ug/l	98
20) Methylene Chloride	4.722	84	9507	2.50	ug/l #	90
25) 2-Butanone	6.990	43	6010	7.29	ug/l	98
36) 1,1-Dichloropropene	7.795	75	22593	4.22	ug/l #	47
37) Ethyl Acetate	6.990	43	6010	2.73	ug/l #	86
38) Carbon Tetrachloride	7.795	117	28004	5.18	ug/l #	16
43) Isopropyl Acetate	8.404	43	6051	1.48	ug/l #	47
48) Methyl methacrylate	9.270	41	9837	5.23	ug/l #	32
52) Toluene	10.252	92	12993	1.26	ug/l	94
59) 2-Hexanone	10.941	43	40931	27.58	ug/l #	45
76) 1,2,3-Trichloropropane	12.489	75	111519	71.30	ug/l #	100
77) Bromobenzene	12.428	156	1593218	542.06	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.410	75	30309	39.95	ug/l #	52
95) Naphthalene	15.245	128	5890	1.22	ug/l #	81

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

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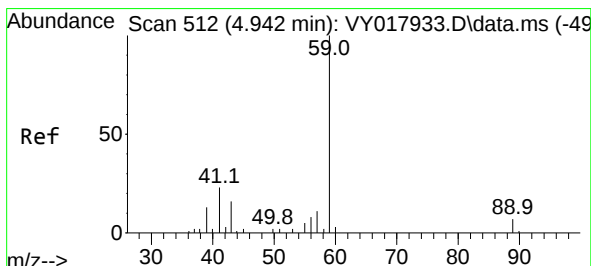
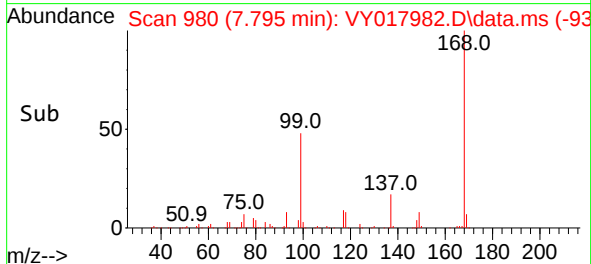
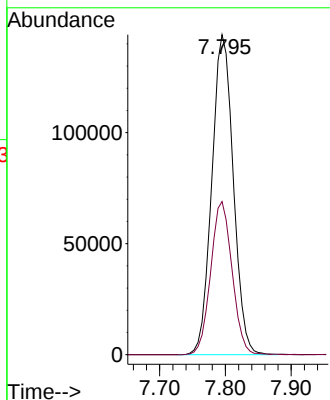
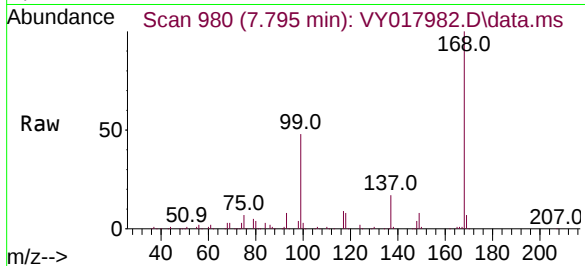




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY017982.D
Acq: 18 Apr 2024 17:38

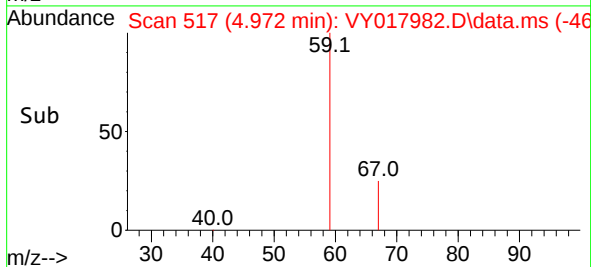
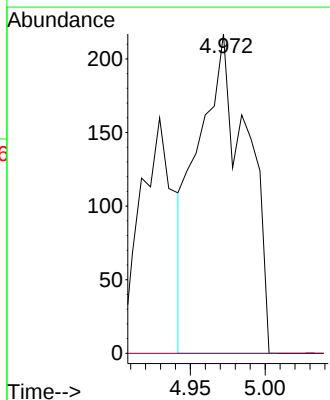
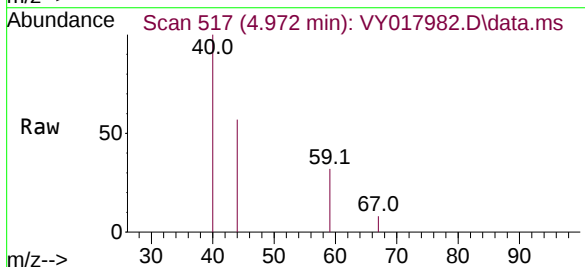
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-4

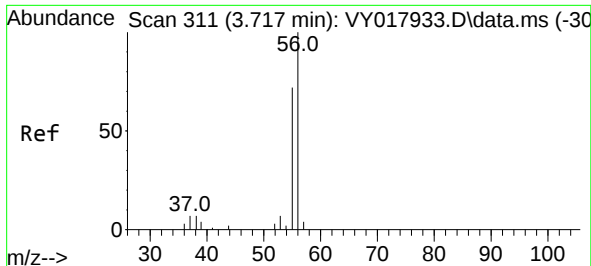
Tgt Ion:168 Resp: 328147
Ion Ratio Lower Upper
168 100
99 47.9 39.1 58.7



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.972 min Scan# 517
Delta R.T. 0.018 min
Lab File: VY017982.D
Acq: 18 Apr 2024 17:38

Tgt Ion: 59 Resp: 499
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.6#





#13

Acrolein

Concen: 1.74 ug/l

RT: 3.728 min Scan# 311

Delta R.T. -0.000 min

Lab File: VY017982.D

Acq: 18 Apr 2024 17:38

Instrument :

MSVOA_Y

ClientSampleId :

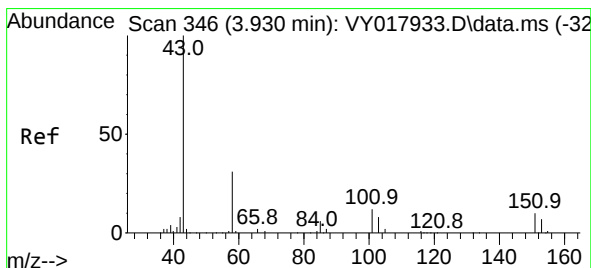
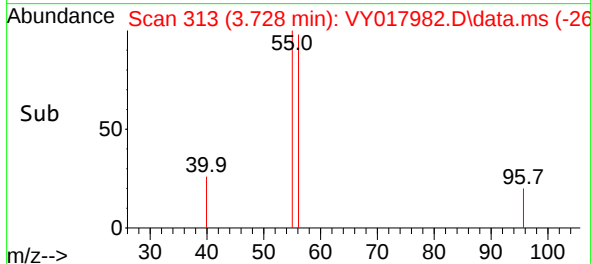
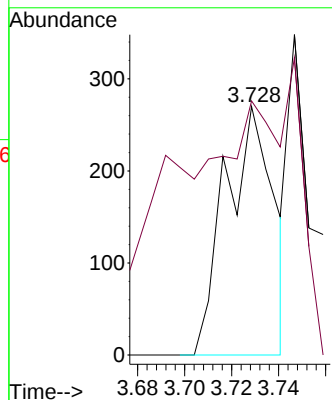
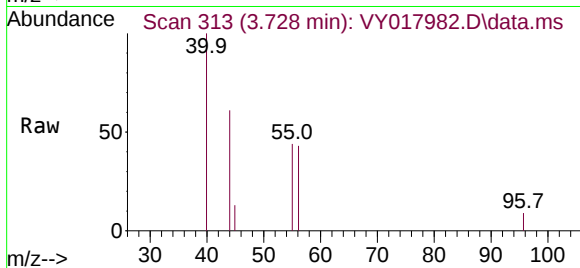
TOPSOIL-LKWD-DENALI-4

Tgt Ion: 56 Resp: 384

Ion Ratio Lower Upper

56 100

55 0.0 55.7 83.5#



#16

Acetone

Concen: 84.38 ug/l

RT: 3.948 min Scan# 349

Delta R.T. -0.000 min

Lab File: VY017982.D

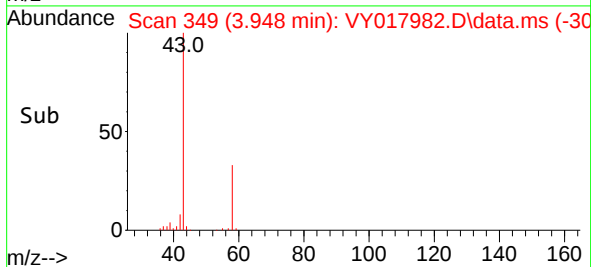
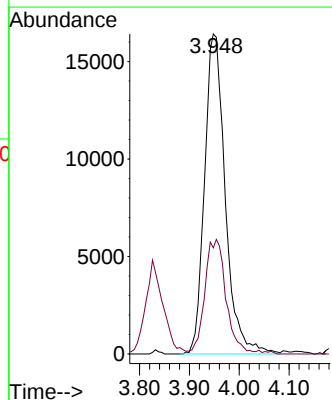
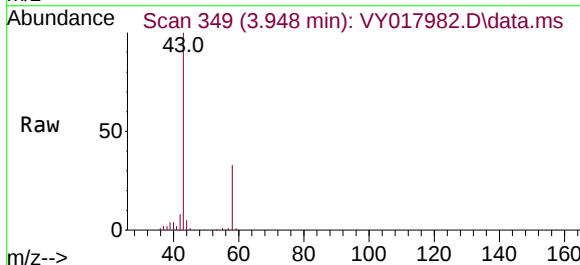
Acq: 18 Apr 2024 17:38

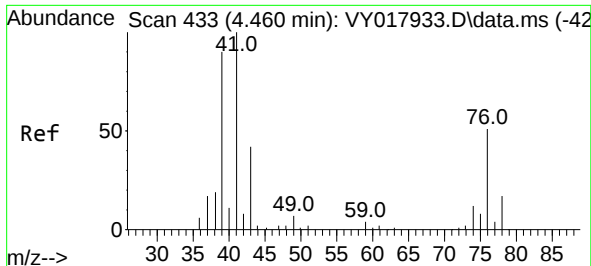
Tgt Ion: 43 Resp: 47346

Ion Ratio Lower Upper

43 100

58 33.1 31.7 47.5

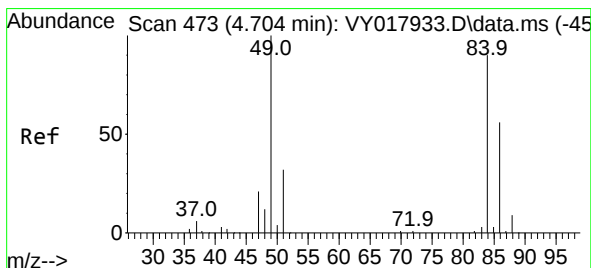
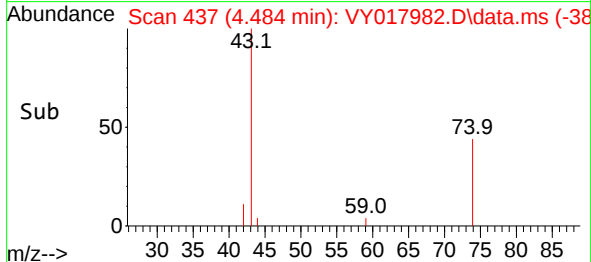
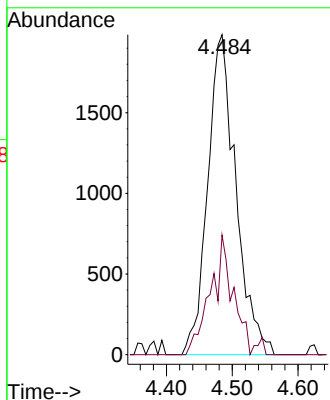
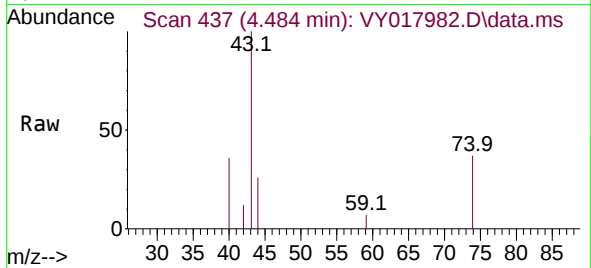




#18
Methyl Acetate
Concen: 4.00 ug/l
RT: 4.484 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY017982.D
Acq: 18 Apr 2024 17:38

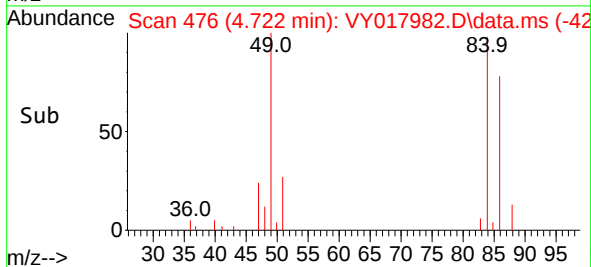
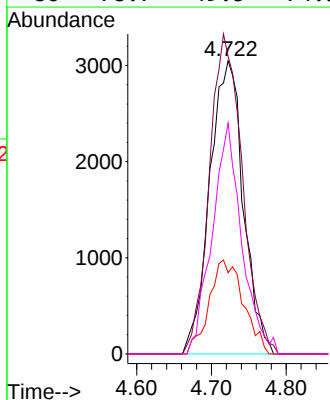
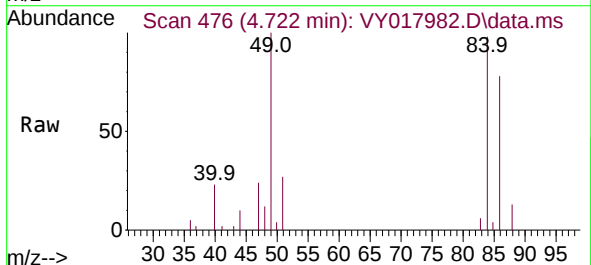
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-4

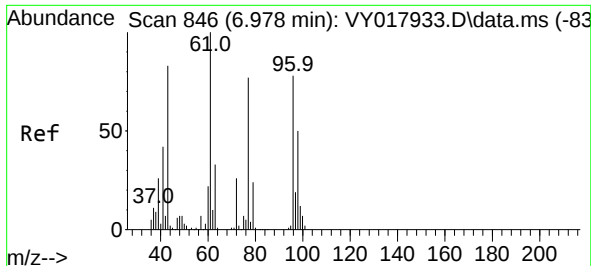
Tgt Ion: 43 Resp: 5910
Ion Ratio Lower Upper
43 100
74 30.2 23.3 34.9



#20
Methylene Chloride
Concen: 2.50 ug/l
RT: 4.722 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY017982.D
Acq: 18 Apr 2024 17:38

Tgt Ion: 84 Resp: 9507
Ion Ratio Lower Upper
84 100
49 101.5 84.4 126.6
51 27.8 26.0 39.0
86 78.7 49.5 74.3#





#25

2-Butanone

Concen: 7.29 ug/l

RT: 6.990 min Scan# 846

Delta R.T. 0.006 min

Lab File: VY017982.D

Acq: 18 Apr 2024 17:38

Instrument :

MSVOA_Y

ClientSampleId :

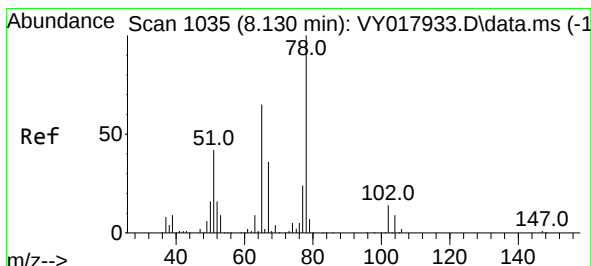
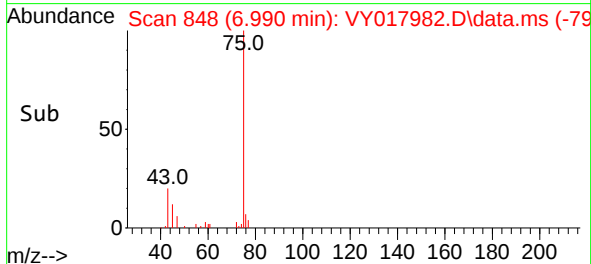
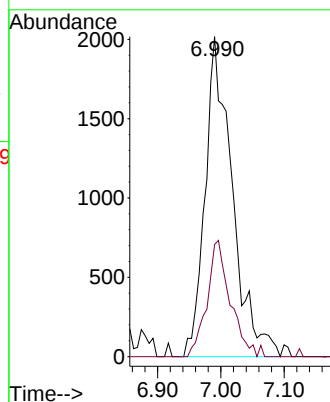
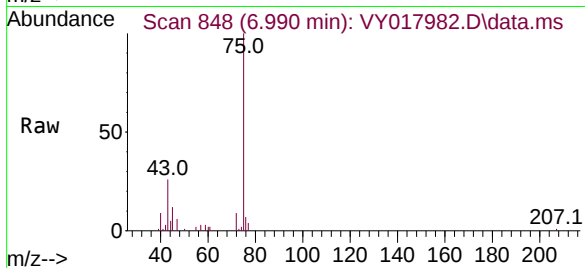
TOPSOIL-LKWD-DENALI-4

Tgt Ion: 43 Resp: 6010

Ion Ratio Lower Upper

43 100

72 35.1 27.3 40.9



#33

1,2-Dichloroethane-d4

Concen: 56.62 ug/l

RT: 8.148 min Scan# 1038

Delta R.T. 0.006 min

Lab File: VY017982.D

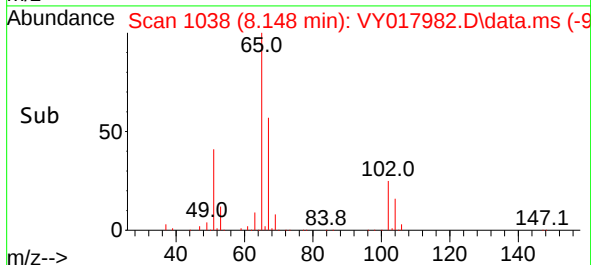
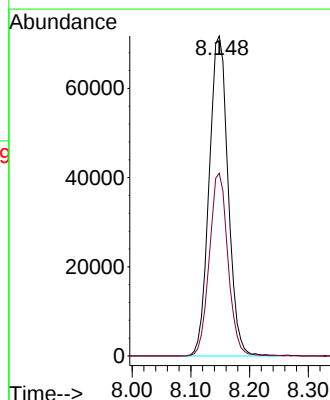
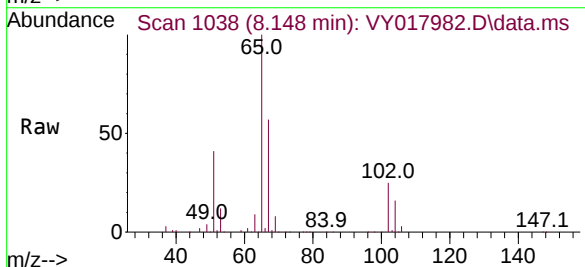
Acq: 18 Apr 2024 17:38

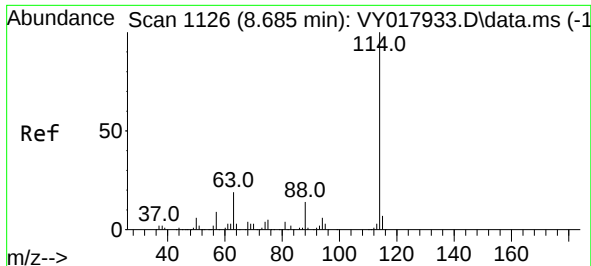
Tgt Ion: 65 Resp: 160797

Ion Ratio Lower Upper

65 100

67 56.0 0.0 109.6

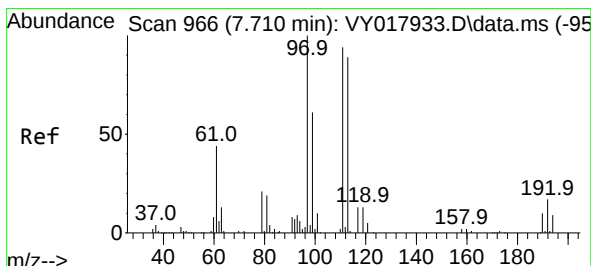
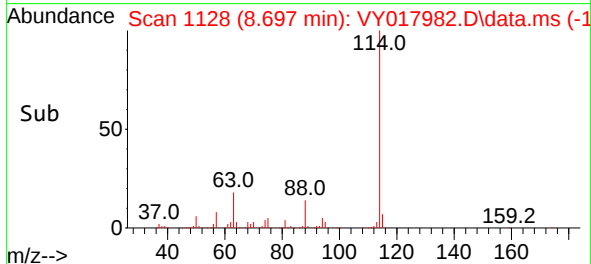
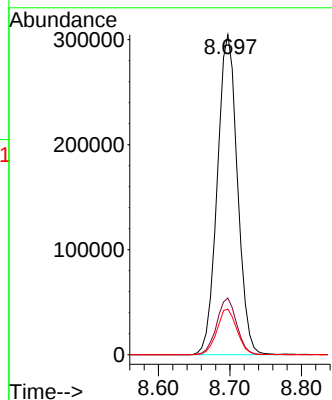
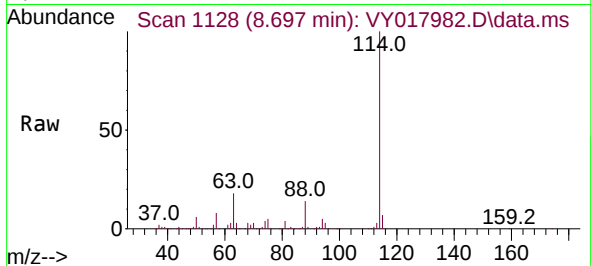




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.697 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VY017982.D
Acq: 18 Apr 2024 17:38

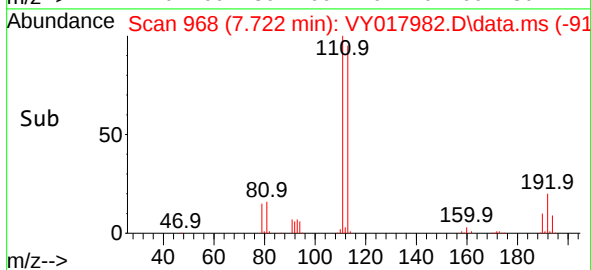
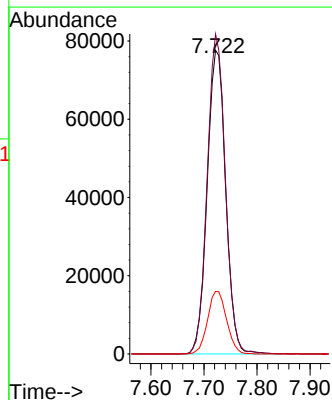
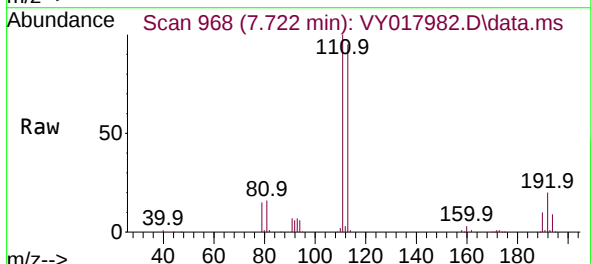
Instrument :
MSVOA_Y
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TOPSOIL-LKWD-DENALI-4

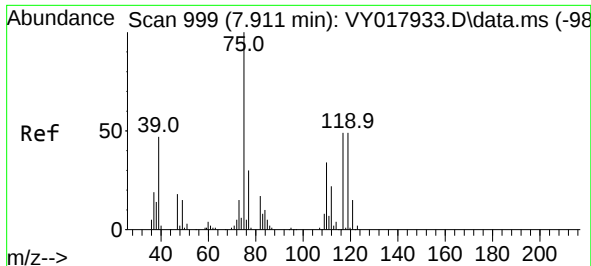
Tgt Ion:114 Resp: 596084
Ion Ratio Lower Upper
114 100
63 17.7 0.0 35.0
88 14.3 0.0 27.2



#35
Dibromofluoromethane
Concen: 51.21 ug/l
RT: 7.722 min Scan# 968
Delta R.T. -0.000 min
Lab File: VY017982.D
Acq: 18 Apr 2024 17:38

Tgt Ion:113 Resp: 188332
Ion Ratio Lower Upper
113 100
111 103.3 82.2 123.4
192 21.1 15.9 23.9

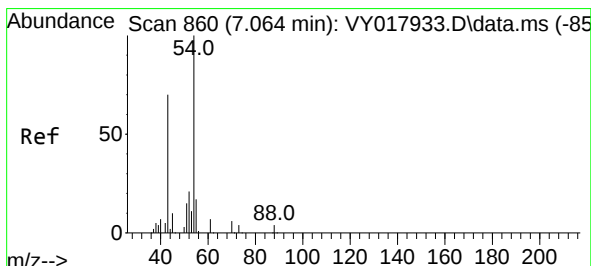
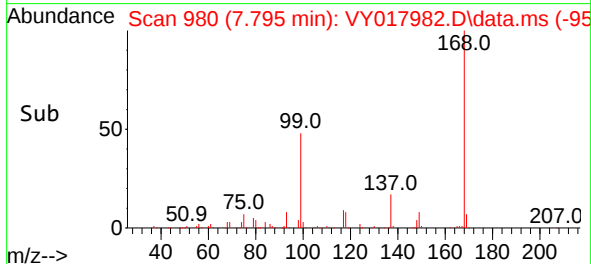
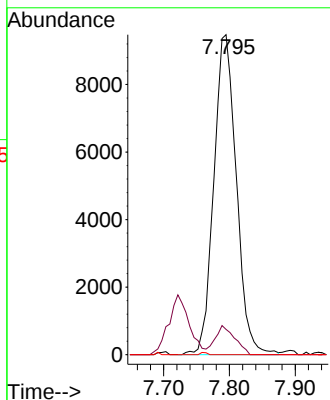
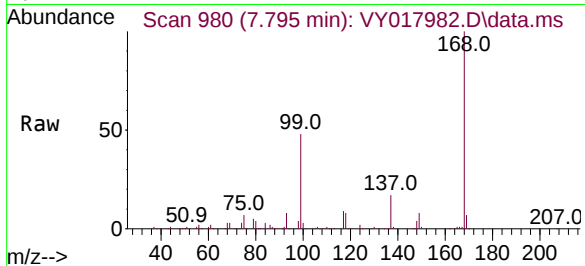




#36
1,1-Dichloropropene
Concen: 4.22 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY017982.D
Acq: 18 Apr 2024 17:38

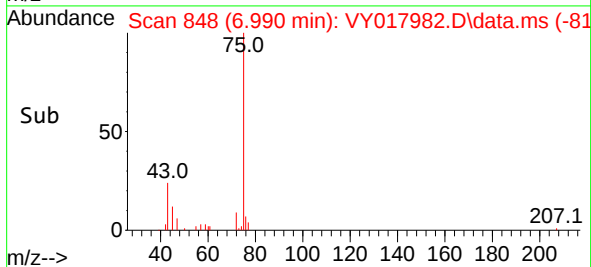
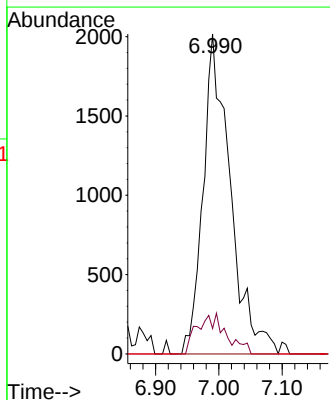
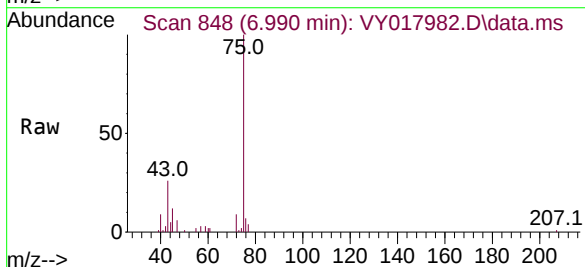
Instrument :
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TOPSOIL-LKWD-DENALI-4

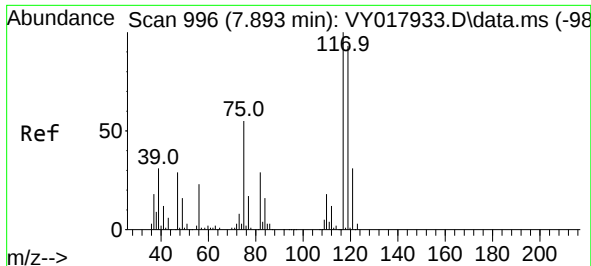
Tgt Ion: 75 Resp: 22593
Ion Ratio Lower Upper
75 100
110 7.9 19.0 57.0#
77 0.0 25.3 37.9#



#37
Ethyl Acetate
Concen: 2.73 ug/l
RT: 6.990 min Scan# 848
Delta R.T. -0.085 min
Lab File: VY017982.D
Acq: 18 Apr 2024 17:38

Tgt Ion: 43 Resp: 6010
Ion Ratio Lower Upper
43 100
61 13.4 12.6 19.0
70 0.0 7.8 11.8#

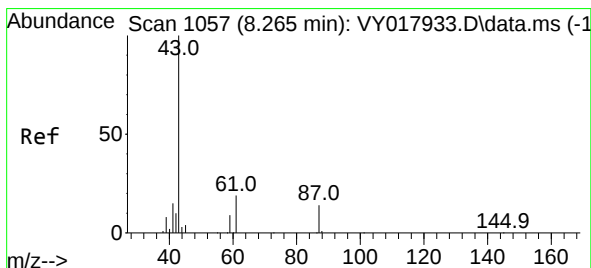
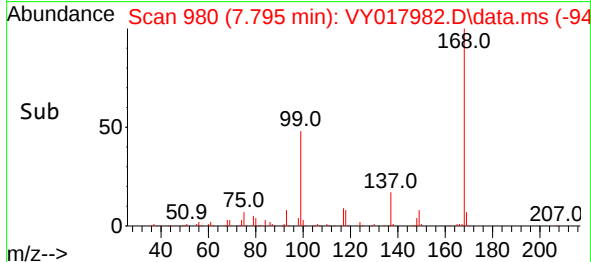
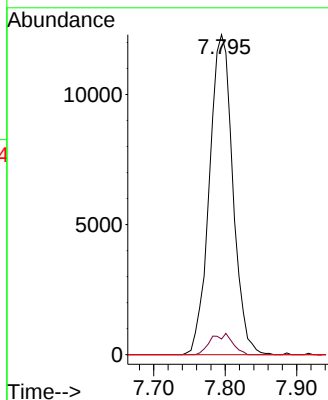
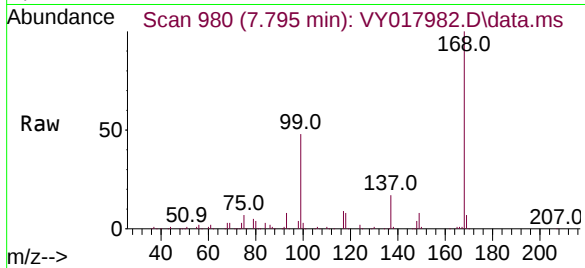




#38
Carbon Tetrachloride
Concen: 5.18 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY017982.D
Acq: 18 Apr 2024 17:38

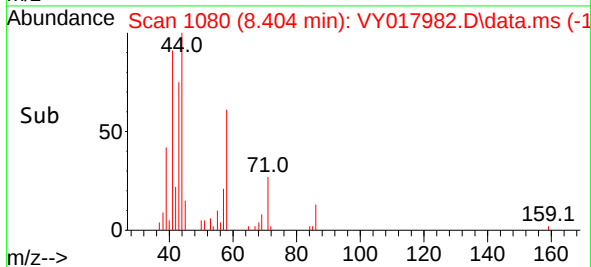
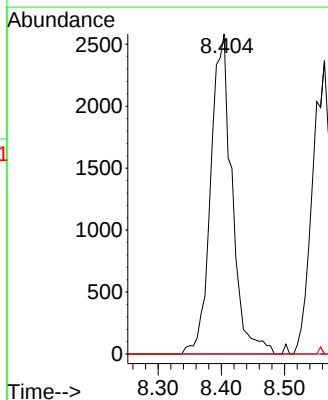
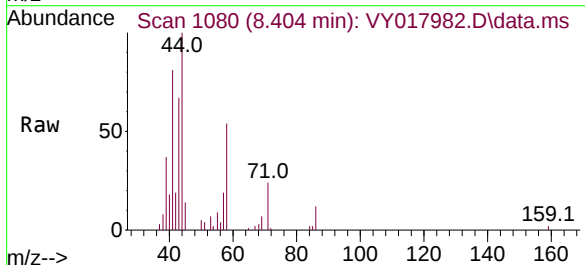
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-4

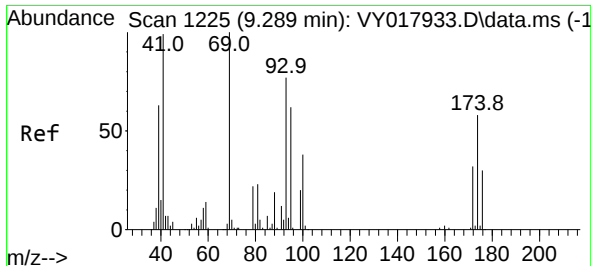
Tgt Ion:117 Resp: 28004
Ion Ratio Lower Upper
117 100
119 4.9 75.8 113.6#
121 0.0 24.0 36.0#



#43
Isopropyl Acetate
Concen: 1.48 ug/l
RT: 8.404 min Scan# 1080
Delta R.T. 0.134 min
Lab File: VY017982.D
Acq: 18 Apr 2024 17:38

Tgt Ion: 43 Resp: 6051
Ion Ratio Lower Upper
43 100
61 0.0 27.9 41.9#
87 0.0 13.1 19.7#

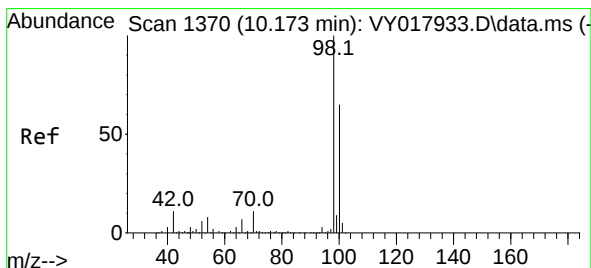
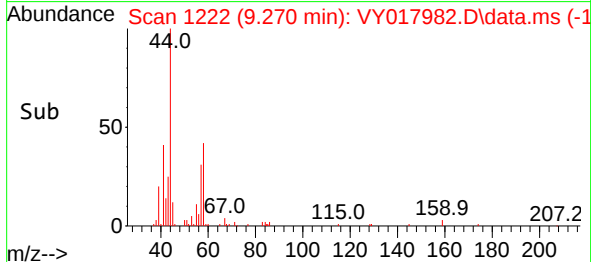
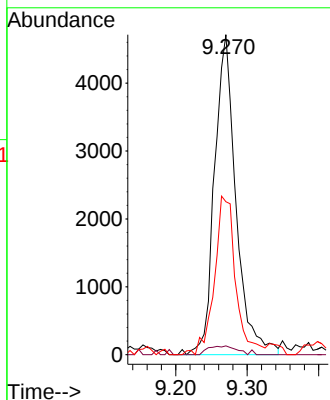
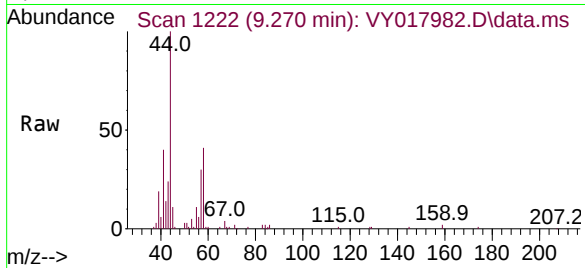




#48
Methyl methacrylate
Concen: 5.23 ug/l
RT: 9.270 min Scan# 11
Delta R.T. -0.024 min
Lab File: VY017982.D
Acq: 18 Apr 2024 17:38

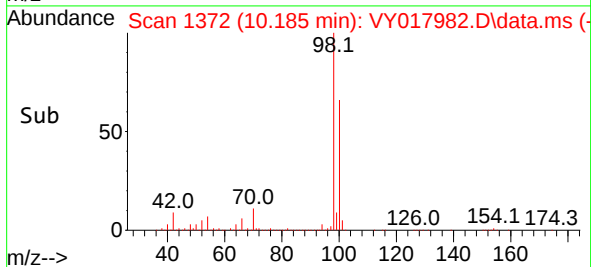
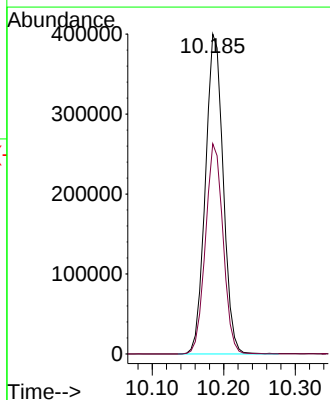
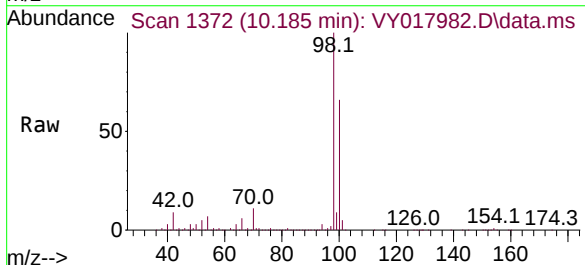
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-4

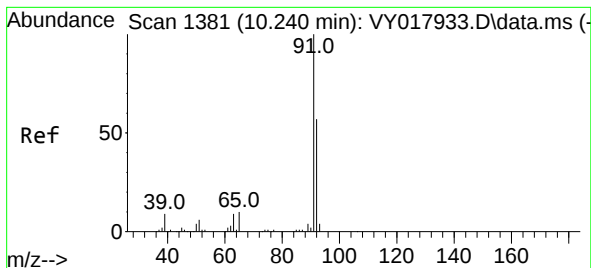
Tgt Ion: 41 Resp: 9837
Ion Ratio Lower Upper
41 100
69 3.5 84.1 126.1#
39 49.0 43.6 65.4



#50
Toluene-d8
Concen: 49.41 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. 0.006 min
Lab File: VY017982.D
Acq: 18 Apr 2024 17:38

Tgt Ion: 98 Resp: 689418
Ion Ratio Lower Upper
98 100
100 65.2 52.0 78.0





#52

Toluene

Concen: 1.26 ug/l

RT: 10.252 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY017982.D

Acq: 18 Apr 2024 17:38

Instrument :

MSVOA_Y

ClientSampleId :

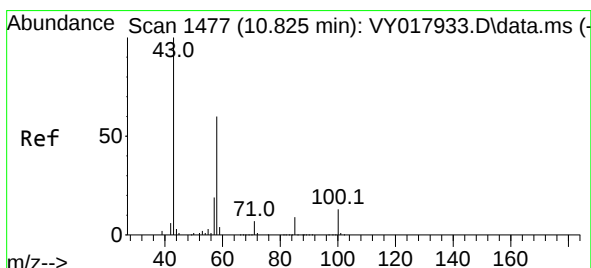
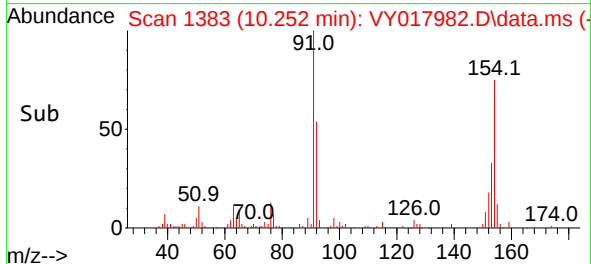
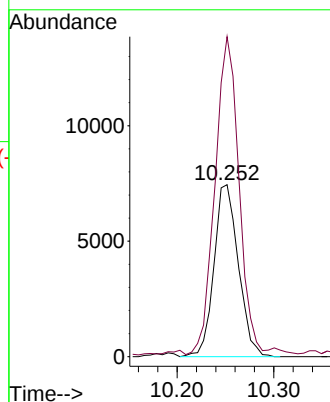
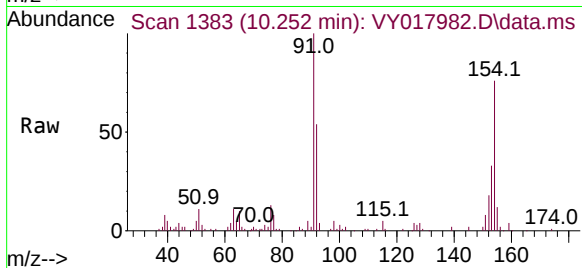
TOPSOIL-LKWD-DENALI-4

Tgt Ion: 92 Resp: 12993

Ion Ratio Lower Upper

92 100

91 181.9 139.0 208.6



#59

2-Hexanone

Concen: 27.58 ug/l

RT: 10.941 min Scan# 1496

Delta R.T. 0.110 min

Lab File: VY017982.D

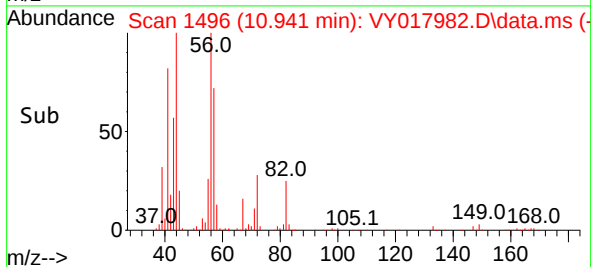
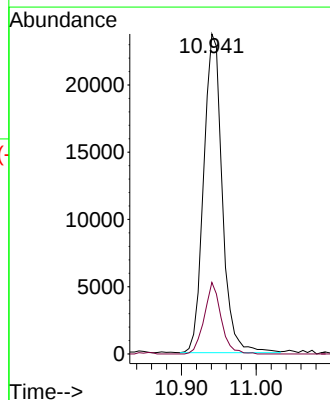
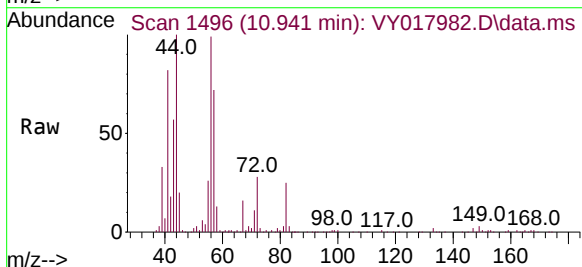
Acq: 18 Apr 2024 17:38

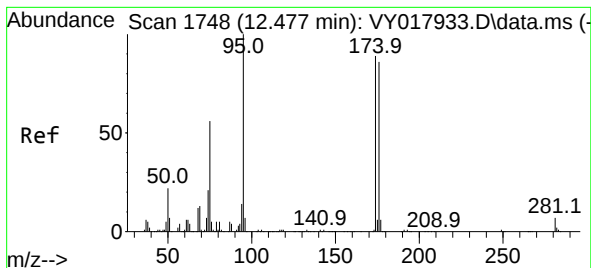
Tgt Ion: 43 Resp: 40931

Ion Ratio Lower Upper

43 100

58 20.3 31.4 94.0#

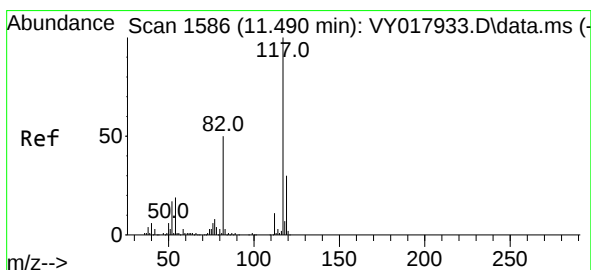
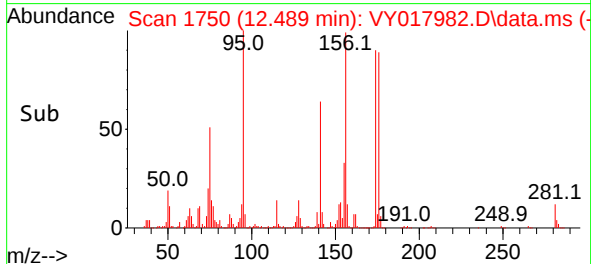
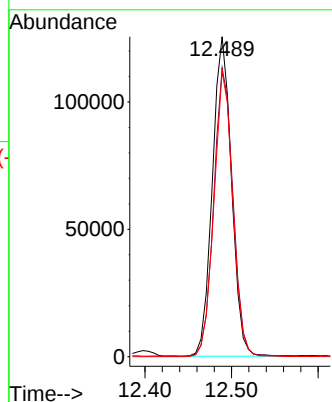
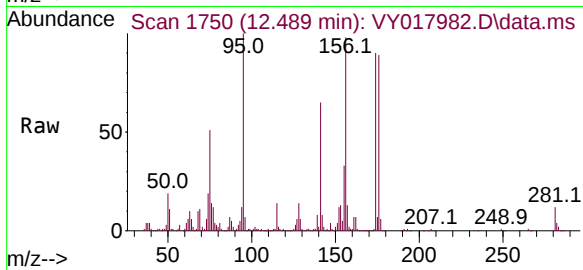




#62
4-Bromofluorobenzene
Concen: 44.51 ug/l
RT: 12.489 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY017982.D
Acq: 18 Apr 2024 17:38

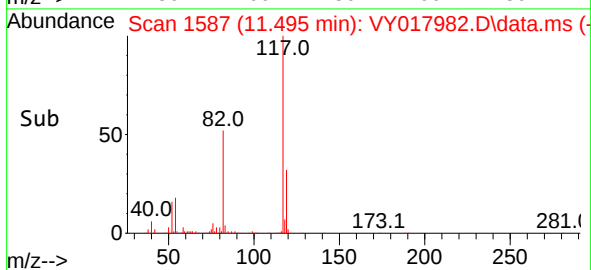
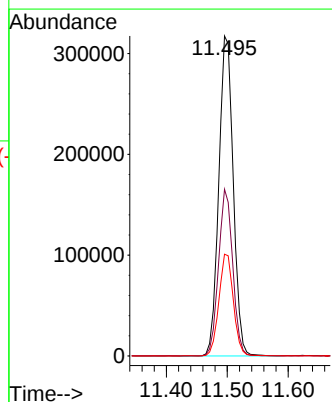
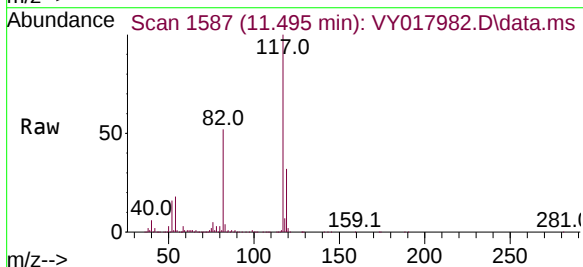
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-4

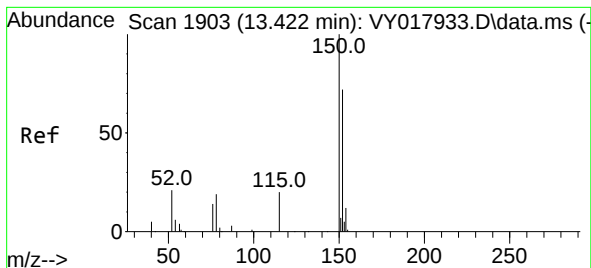
Tgt Ion: 95 Resp: 192340
Ion Ratio Lower Upper
95 100
174 90.5 0.0 175.6
176 88.2 0.0 171.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.495 min Scan# 1587
Delta R.T. 0.006 min
Lab File: VY017982.D
Acq: 18 Apr 2024 17:38

Tgt Ion: 117 Resp: 523361
Ion Ratio Lower Upper
117 100
82 52.1 42.4 63.6
119 31.8 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.434 min Scan# 1905

Delta R.T. 0.006 min

Lab File: VY017982.D

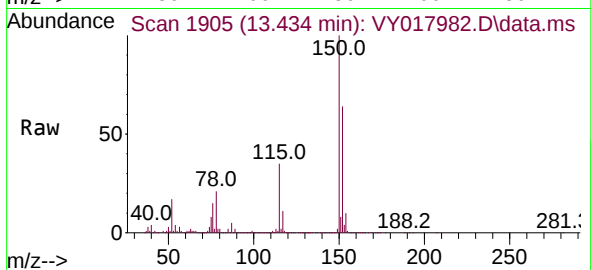
Acq: 18 Apr 2024 17:38

Instrument :

MSVOA_Y

ClientSampleId :

TOPSOIL-LKWD-DENALI-4



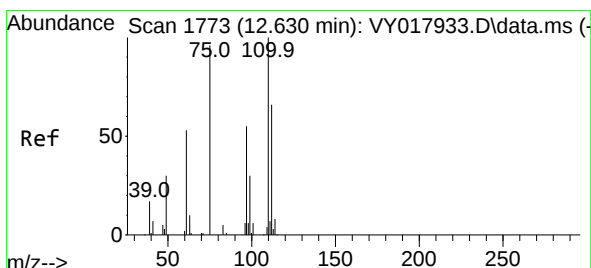
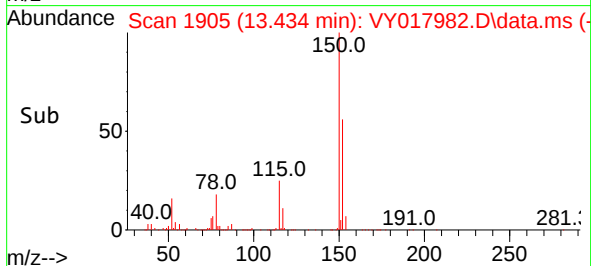
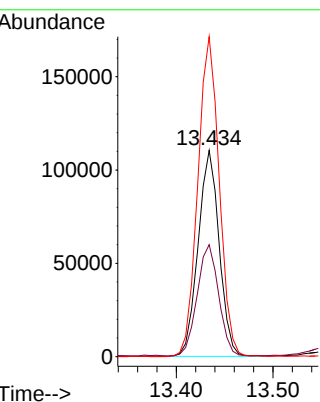
Tgt Ion:152 Resp: 166683

Ion	Ratio	Lower	Upper
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152	100		
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115	54.9	28.2	84.7
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150	158.0	0.0	345.6
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#76

1,2,3-Trichloropropane

Concen: 71.30 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. -0.146 min

Lab File: VY017982.D

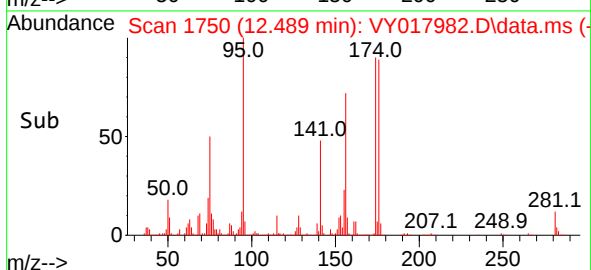
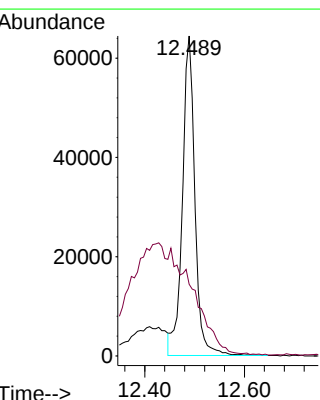
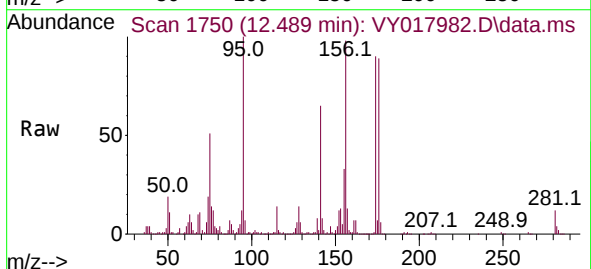
Acq: 18 Apr 2024 17:38

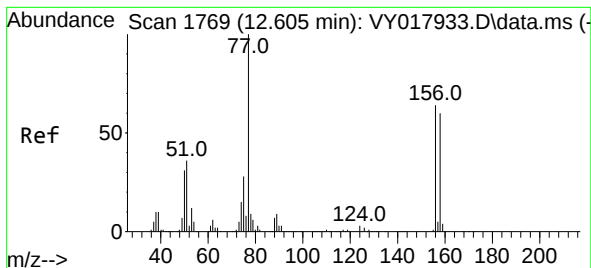
Tgt Ion: 75 Resp: 111519

Ion	Ratio	Lower	Upper
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75	100		
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77	0.0	0.0	0.0
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#77

Bromobenzene

Concen: 542.06 ug/l

RT: 12.428 min Scan# 1

Delta R.T. -0.183 min

Lab File: VY017982.D

Acq: 18 Apr 2024 17:38

Instrument :

MSVOA_Y

ClientSampleId :

TOPSOIL-LKWD-DENALI-4

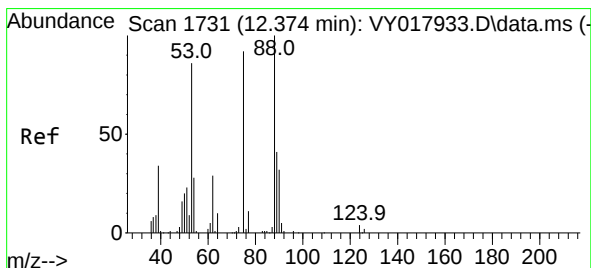
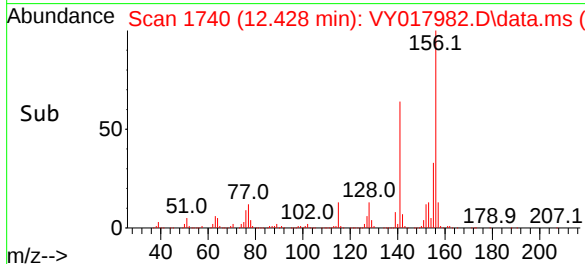
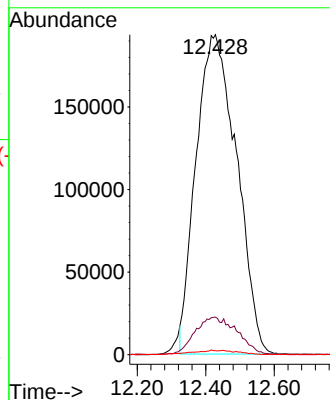
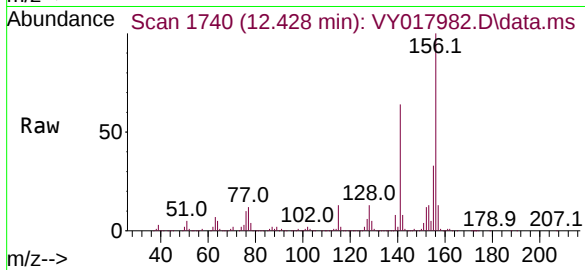
Tgt Ion:156 Resp: 1593218

Ion Ratio Lower Upper

156 100

77 11.9 87.1 261.3#

158 0.4 48.6 145.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 39.95 ug/l

RT: 12.410 min Scan# 1737

Delta R.T. 0.030 min

Lab File: VY017982.D

Acq: 18 Apr 2024 17:38

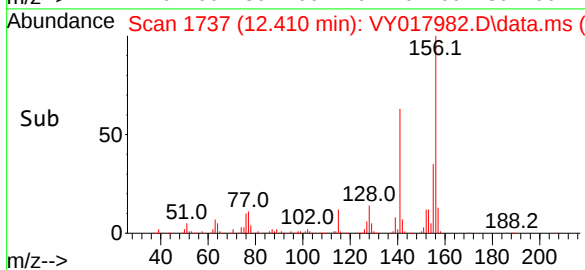
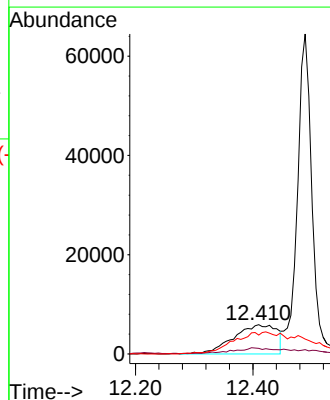
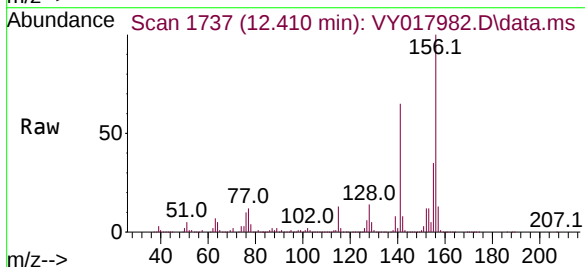
Tgt Ion: 75 Resp: 30309

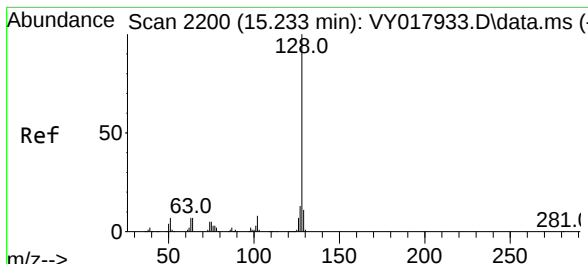
Ion Ratio Lower Upper

75 100

53 17.7 66.8 100.2#

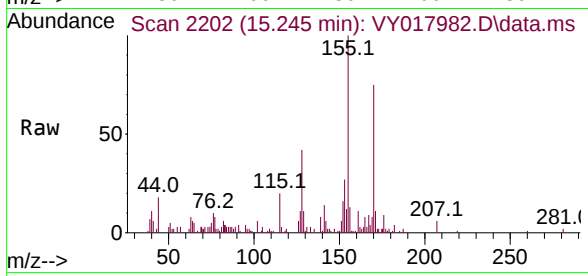
89 46.2 35.8 53.6





#95
 Naphthalene
 Concen: 1.22 ug/l
 RT: 15.245 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VY017982.D
 Acq: 18 Apr 2024 17:38

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOPSOIL-LKWD-DENALI-4



Tgt Ion:128 Resp: 5890

Ion	Ratio	Lower	Upper
128	100		
127	18.0	10.6	16.0#
129	0.0	8.6	13.0#

