

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120523\
 Data File : VY016596.D
 Acq On : 05 Dec 2023 15:09
 Operator : SY/MD
 Sample : 05600-05
 Misc : 2.73g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOPSOIL-LKWD-DENALI-3

Quant Time: Dec 06 02:25:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120423S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 05 01:24:25 2023
 Response via : Initial Calibration

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

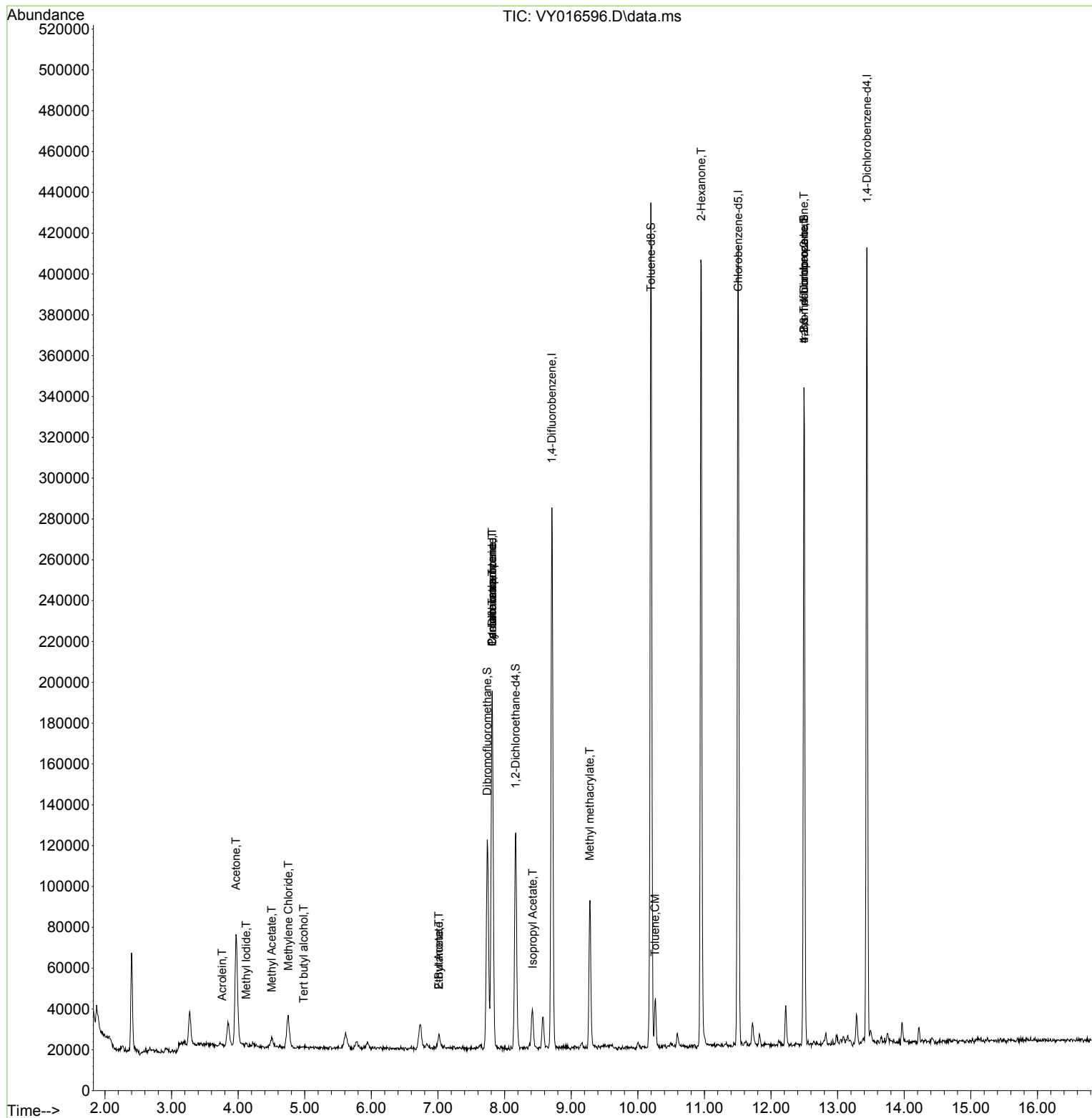
Internal Standards						
1) Pentafluorobenzene	7.813	168	140821	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.709	114	232080	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.508	117	223000	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.440	152	101259	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.167	65	86650	66.574	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 133.140%			
35) Dibromofluoromethane	7.740	113	72236	51.720	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.440%			
50) Toluene-d8	10.197	98	266749	50.492	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.980%			
62) 4-Bromofluorobenzene	12.495	95	94678	54.497	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 109.000%			
Target Compounds					Qvalue	
10) Methyl Iodide	4.119	142	2210	1.518	ug/l	90
11) Tert butyl alcohol	4.984	59	230	2.594	ug/l #	89
13) Acrolein	3.759	56	684	5.305	ug/l	91
16) Acetone	3.966	43	94981	322.483	ug/l	92
18) Methyl Acetate	4.503	43	8805	7.542	ug/l	94
20) Methylene Chloride	4.753	84	11475	5.864	ug/l #	82
25) 2-Butanone	7.015	43	10346	25.546	ug/l #	89
31) Cyclohexane	7.813	56	2453	1.104	ug/l #	1
36) 1,1-Dichloropropene	7.813	75	9052	4.264	ug/l #	51
37) Ethyl Acetate	7.015	43	10346	11.646	ug/l #	71
38) Carbon Tetrachloride	7.813	117	13469	5.480	ug/l #	16
43) Isopropyl Acetate	8.423	43	6442	3.759	ug/l #	55
48) Methyl methacrylate	9.276	41	19165	19.364	ug/l #	45
52) Toluene	10.258	92	9955	2.654	ug/l	93
59) 2-Hexanone	10.953	43	60852	90.319	ug/l #	54
76) 1,2,3-Trichloropropane	12.495	75	50137	54.812	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.495	75	50137	123.646	ug/l #	11
95) Naphthalene	15.245	128	1140	Below Cal		96
96) 1,2,3-Trichlorobenzene	15.440	180	264	Below Cal		90

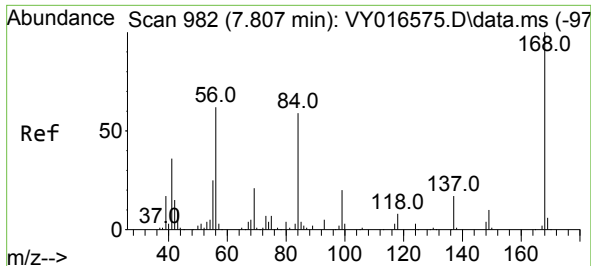
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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TOPSOIL-LKWD-DENALI-3

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Quant Title : SW846 8260
QLast Update : Tue Dec 05 01:24:25 2023
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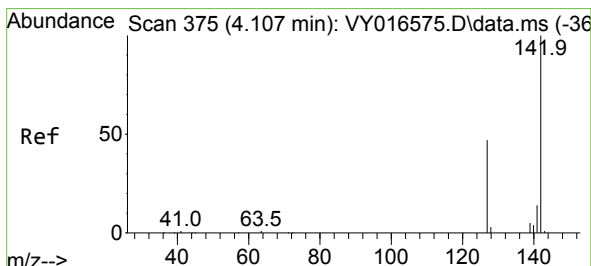
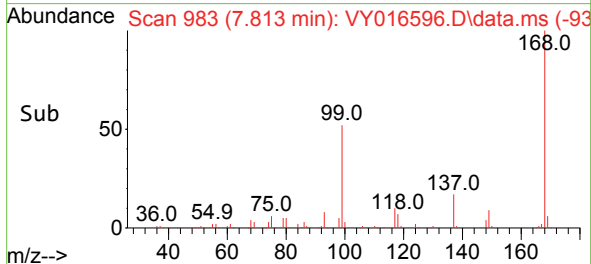
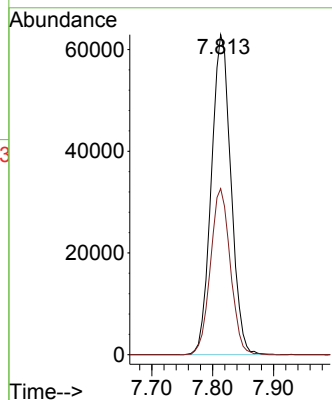
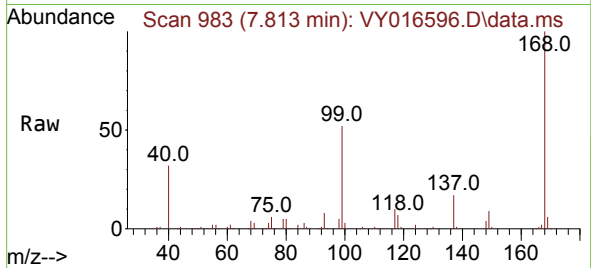




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.813 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

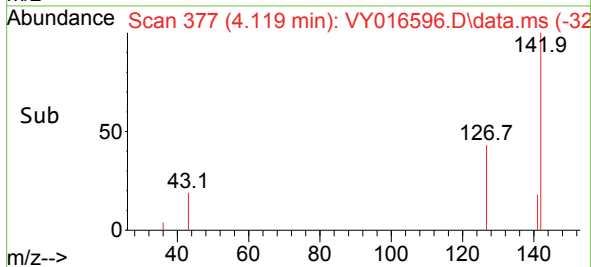
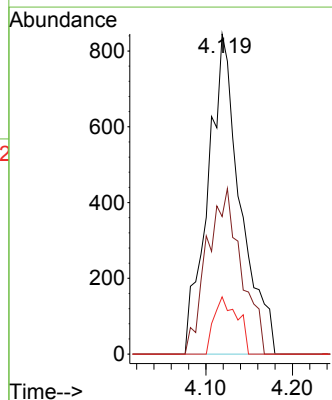
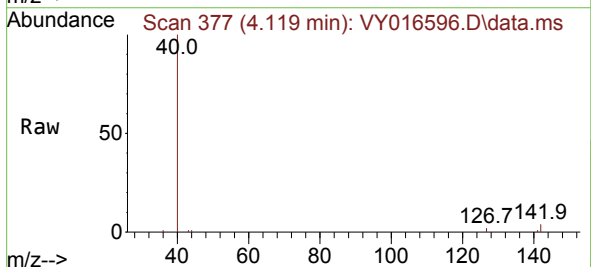
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-3

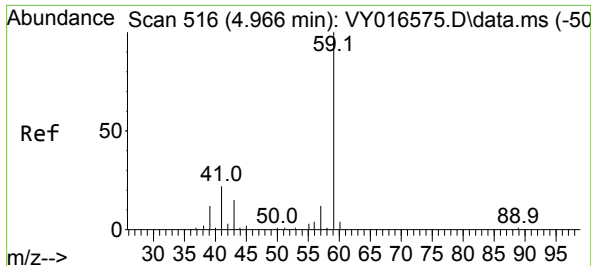
Tgt Ion:168 Resp: 140821
Ion Ratio Lower Upper
168 100
99 51.9 43.4 65.0



#10
Methyl Iodide
Concen: 1.518 ug/l
RT: 4.119 min Scan# 377
Delta R.T. 0.012 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

Tgt Ion:142 Resp: 2210
Ion Ratio Lower Upper
142 100
127 54.4 37.6 56.4
141 12.8 11.8 17.8

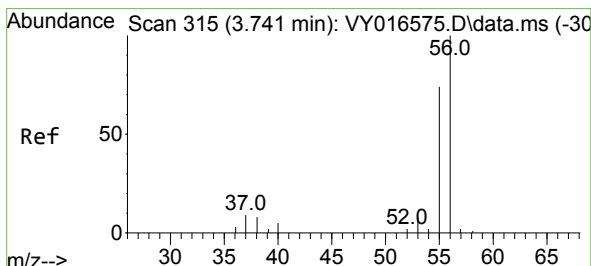
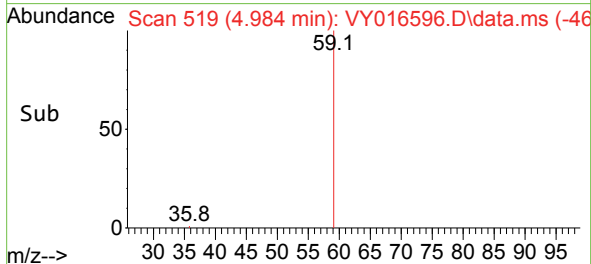
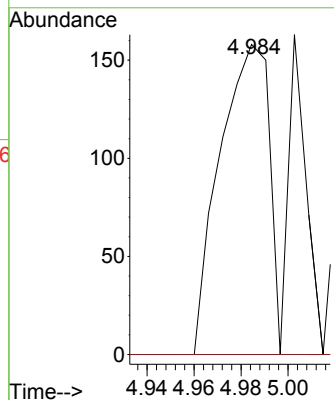
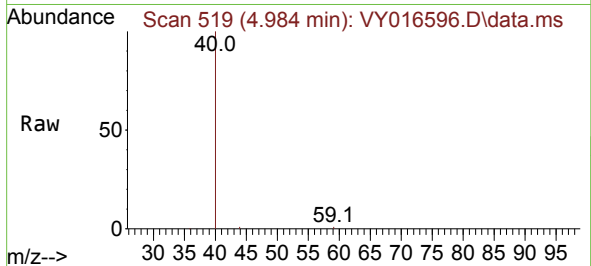




#11
Tert butyl alcohol
Concen: 2.594 ug/l
RT: 4.984 min Scan# 516
Delta R.T. 0.018 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

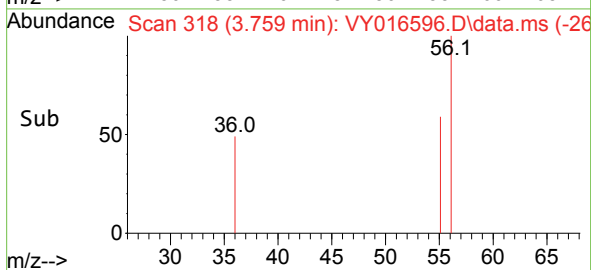
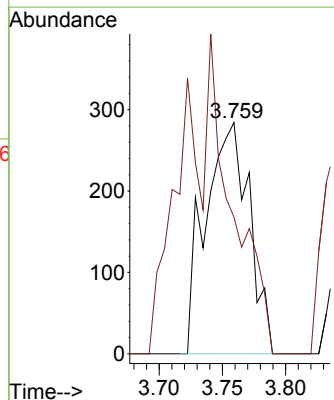
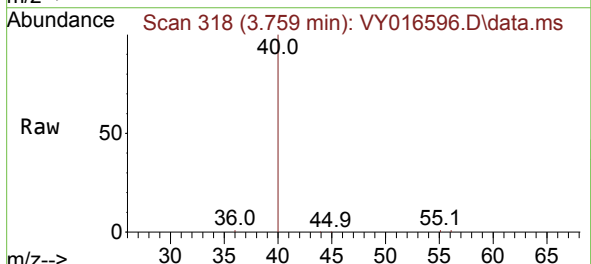
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-3

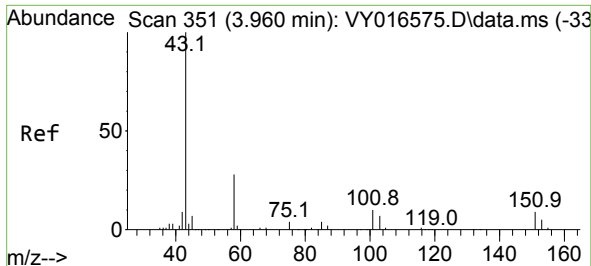
Tgt Ion: 59 Resp: 230
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#



#13
Acrolein
Concen: 5.305 ug/l
RT: 3.759 min Scan# 318
Delta R.T. 0.018 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

Tgt Ion: 56 Resp: 684
Ion Ratio Lower Upper
56 100
55 78.7 57.0 85.4

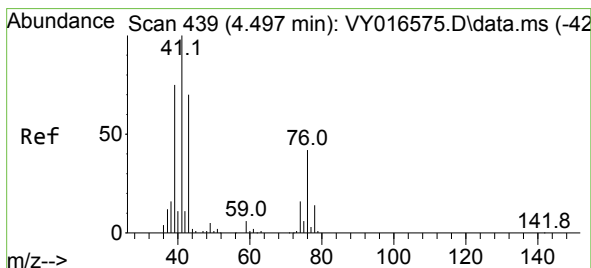
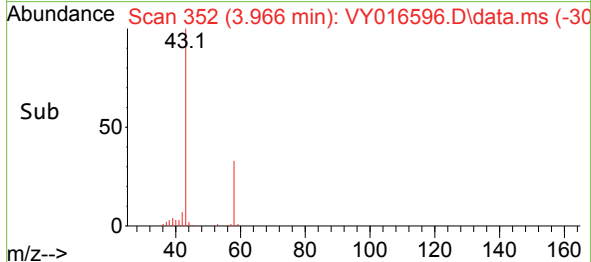
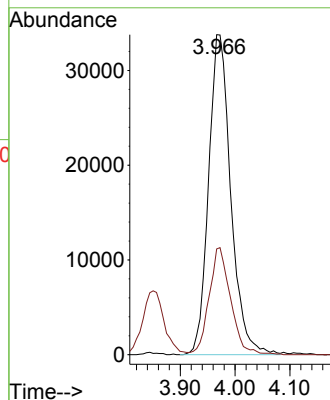
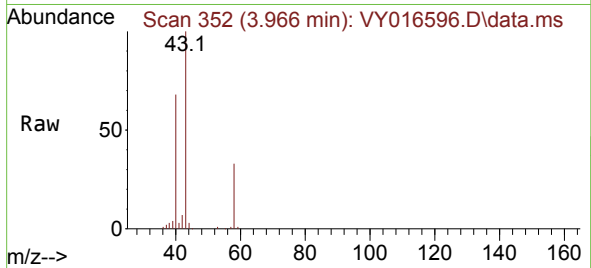




#16
Acetone
Concen: 322.483 ug/l
RT: 3.966 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

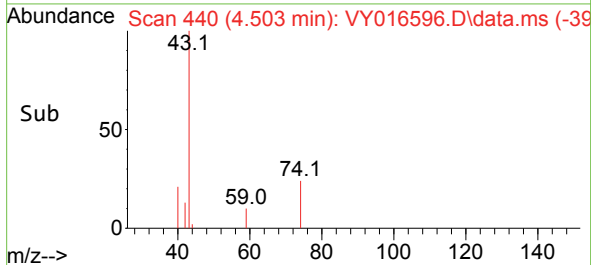
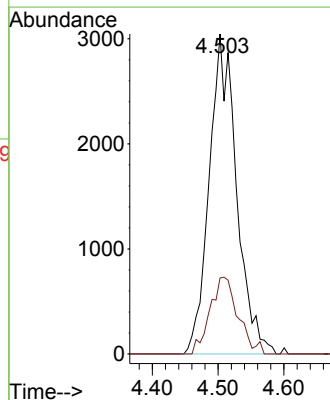
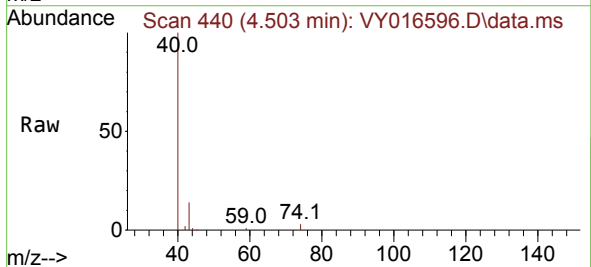
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-3

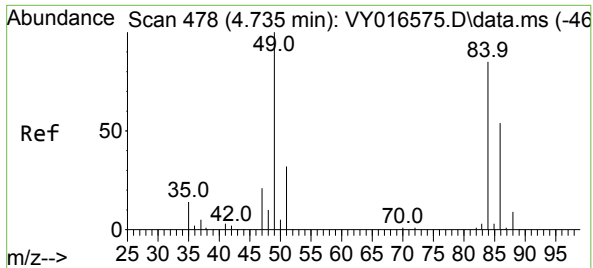
Tgt Ion: 43 Resp: 94981
Ion Ratio Lower Upper
43 100
58 32.8 22.7 34.1



#18
Methyl Acetate
Concen: 7.542 ug/l
RT: 4.503 min Scan# 440
Delta R.T. 0.006 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

Tgt Ion: 43 Resp: 8805
Ion Ratio Lower Upper
43 100
74 24.7 17.4 26.0

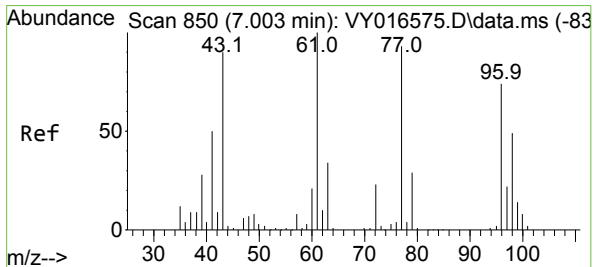
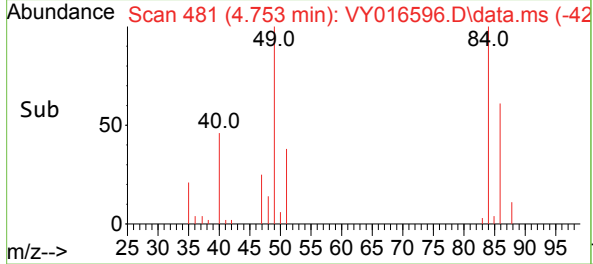
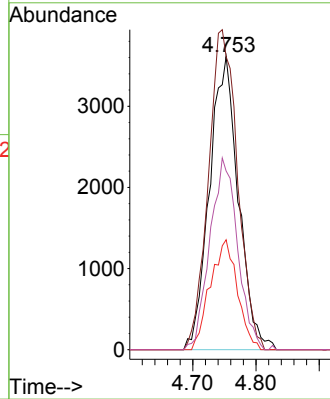
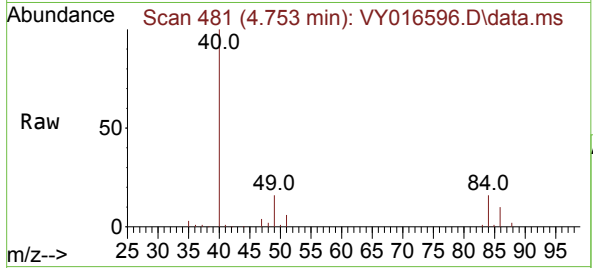




#20
Methylene Chloride
Concen: 5.864 ug/l
RT: 4.753 min Scan# 41
Delta R.T. 0.018 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

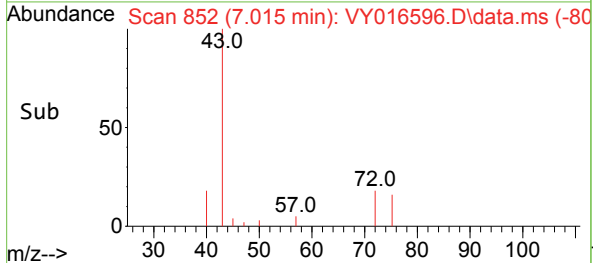
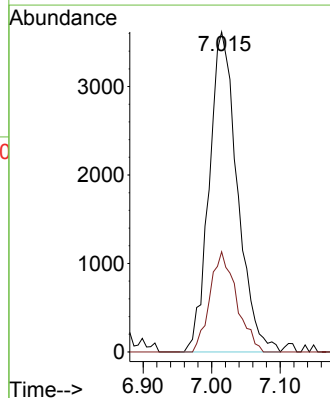
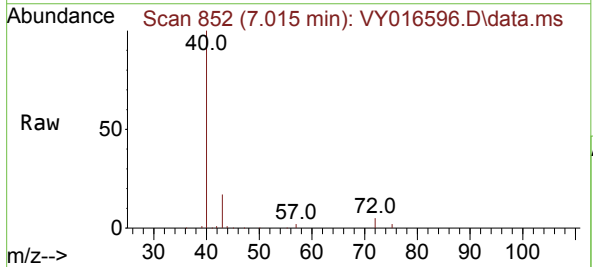
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-3

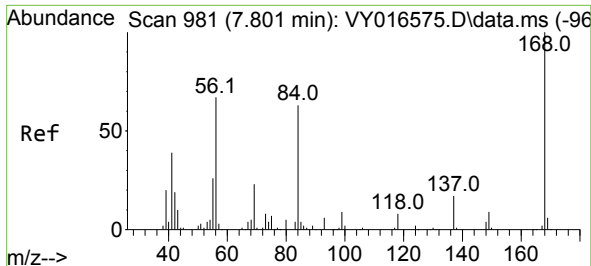
Tgt Ion: 84	Resp: 11475
Ion Ratio	Lower Upper
84	100
49	99.9 106.9 160.3#
51	37.5 33.2 49.8
86	61.0 51.0 76.6



#25
2-Butanone
Concen: 25.546 ug/l
RT: 7.015 min Scan# 852
Delta R.T. 0.012 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

Tgt Ion: 43	Resp: 10346
Ion Ratio	Lower Upper
43	100
72	31.3 20.5 30.7#

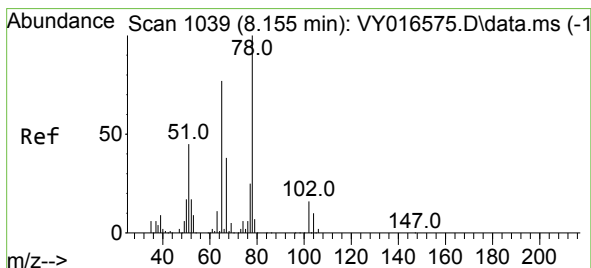
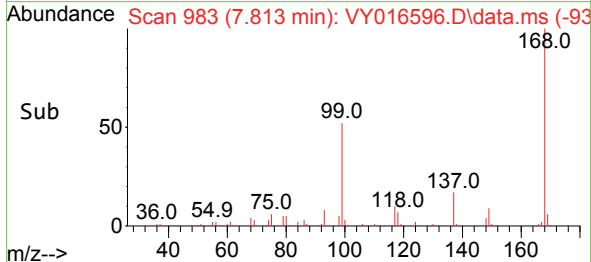
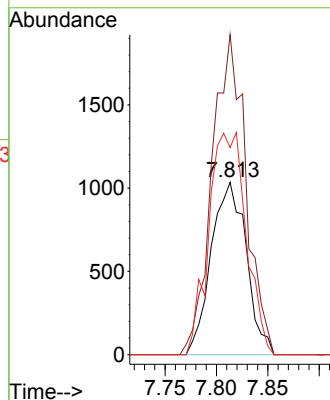
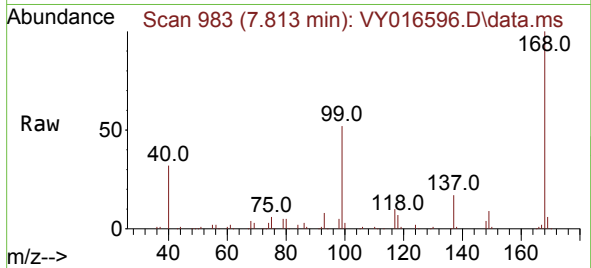




#31
Cyclohexane
Concen: 1.104 ug/l
RT: 7.813 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

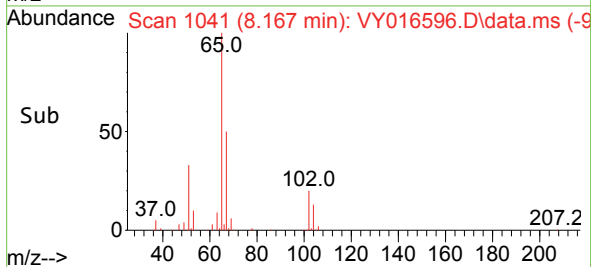
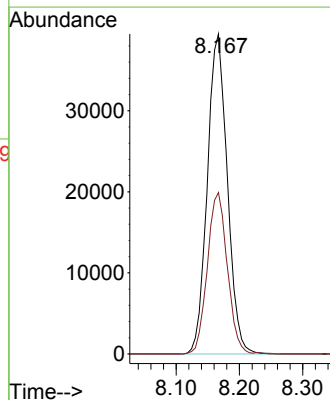
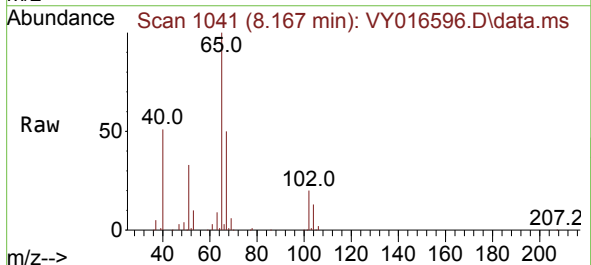
Instrument :
MSVOA_Y
ClientSampleId :
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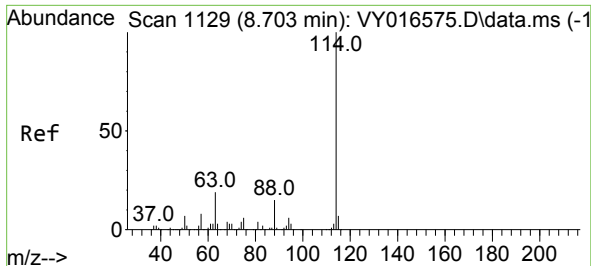
Tgt Ion: 56 Resp: 2453
Ion Ratio Lower Upper
56 100
69 185.7 27.8 41.6#
84 120.1 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 66.574 ug/l
RT: 8.167 min Scan# 1041
Delta R.T. 0.012 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

Tgt Ion: 65 Resp: 86650
Ion Ratio Lower Upper
65 100
67 50.4 0.0 101.8

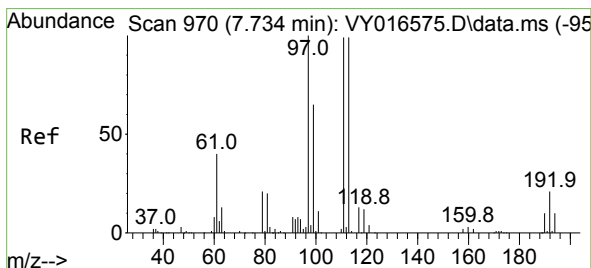
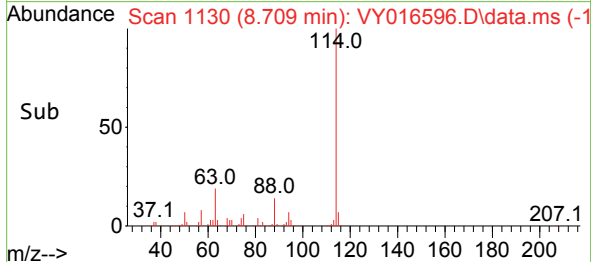
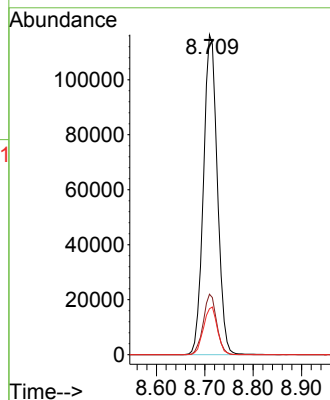
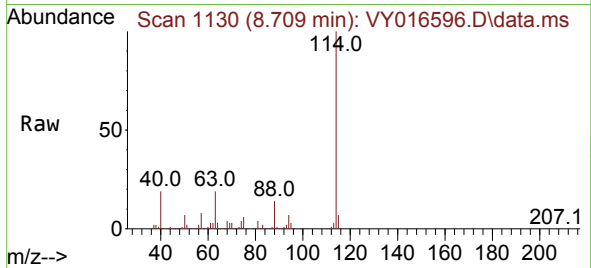




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.709 min Scan# 1129
Delta R.T. 0.006 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

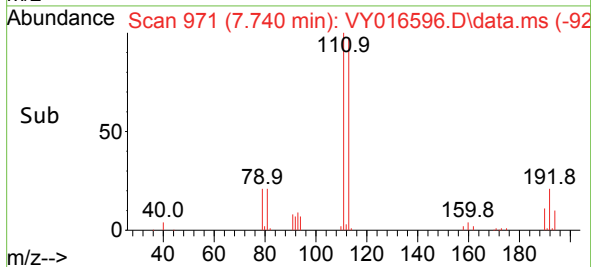
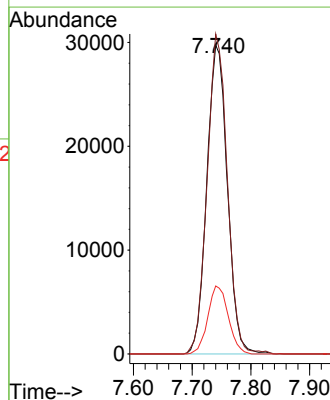
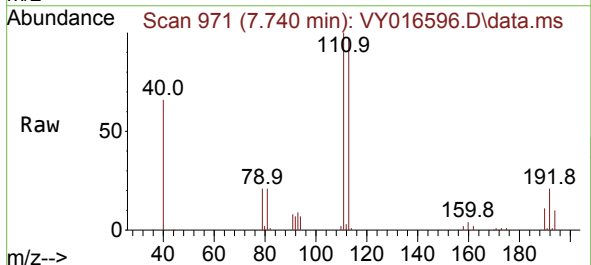
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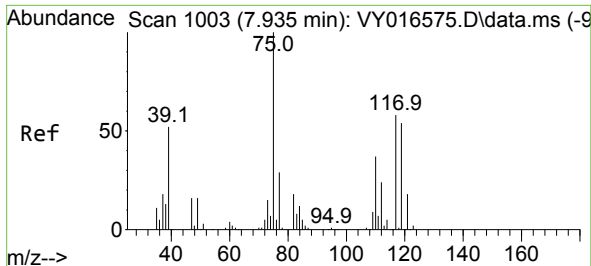
Tgt Ion:114 Resp: 232080
Ion Ratio Lower Upper
114 100
63 18.9 0.0 42.4
88 14.3 0.0 30.6



#35
Dibromofluoromethane
Concen: 51.720 ug/l
RT: 7.740 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

Tgt Ion:113 Resp: 72236
Ion Ratio Lower Upper
113 100
111 101.9 81.3 121.9
192 21.9 16.9 25.3

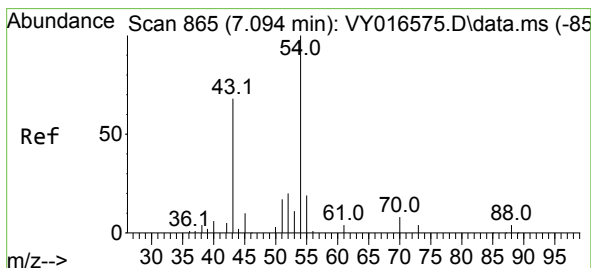
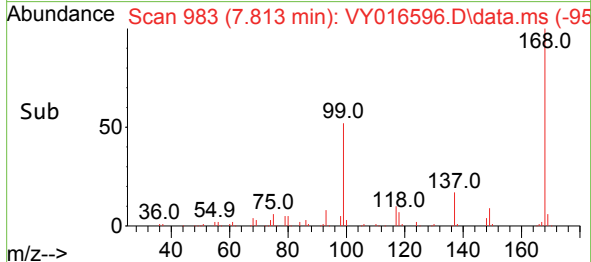
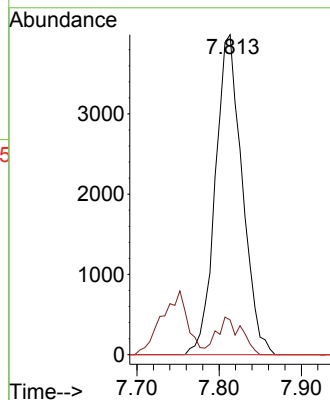
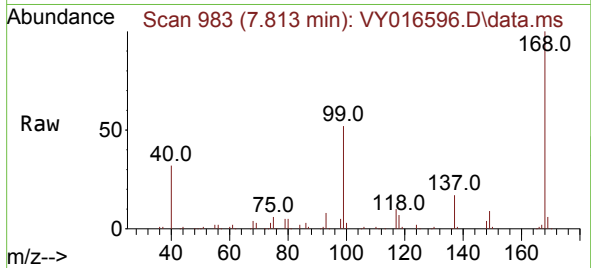




#36
1,1-Dichloropropene
Concen: 4.264 ug/l
RT: 7.813 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

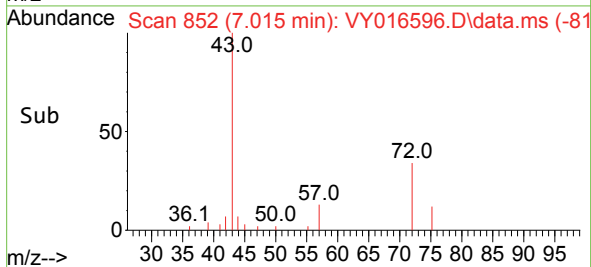
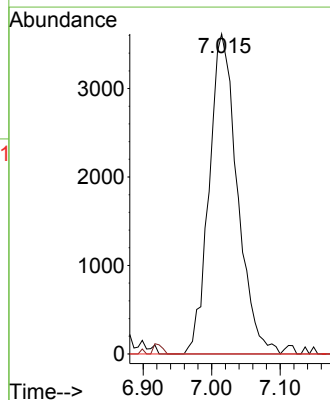
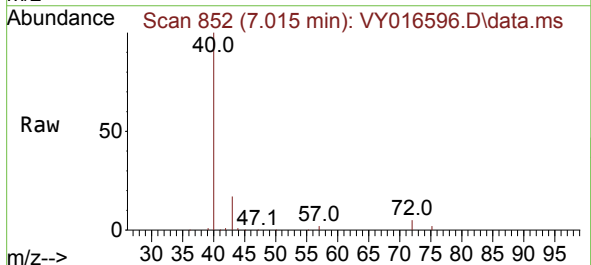
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-3

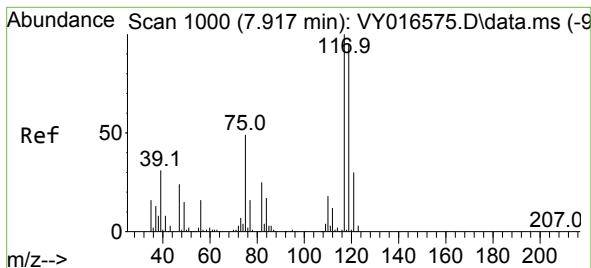
Tgt Ion: 75 Resp: 9052
Ion Ratio Lower Upper
75 100
110 10.6 17.8 53.5#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 11.646 ug/l
RT: 7.015 min Scan# 852
Delta R.T. -0.079 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

Tgt Ion: 43 Resp: 10346
Ion Ratio Lower Upper
43 100
61 0.0 10.1 15.1#
70 0.0 7.1 10.7#





#38

Carbon Tetrachloride

Concen: 5.480 ug/l

RT: 7.813 min Scan# 91

Delta R.T. -0.104 min

Lab File: VY016596.D

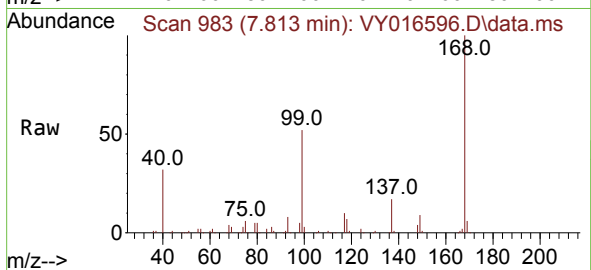
Acq: 05 Dec 2023 15:09

Instrument :

MSVOA_Y

ClientSampleId :

TOPSOIL-LKWD-DENALI-3



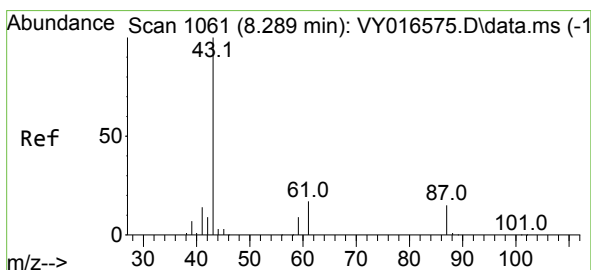
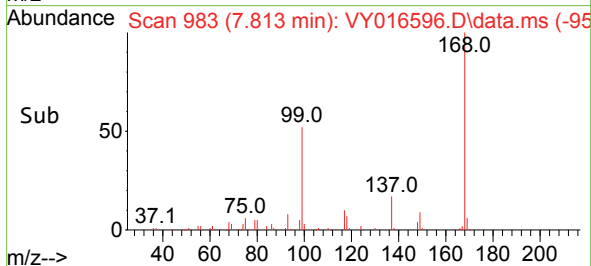
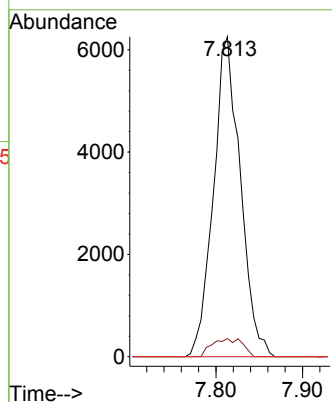
Tgt Ion:117 Resp: 13469

Ion Ratio Lower Upper

117 100

119 5.6 76.4 114.6#

121 0.0 25.8 38.6#



#43

Isopropyl Acetate

Concen: 3.759 ug/l

RT: 8.423 min Scan# 1083

Delta R.T. 0.134 min

Lab File: VY016596.D

Acq: 05 Dec 2023 15:09

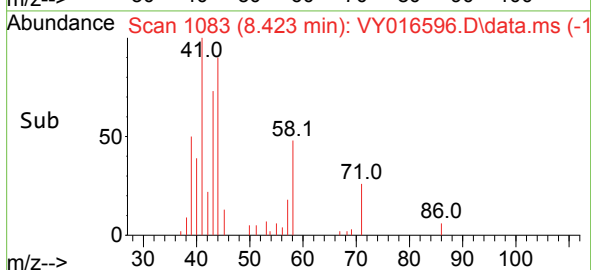
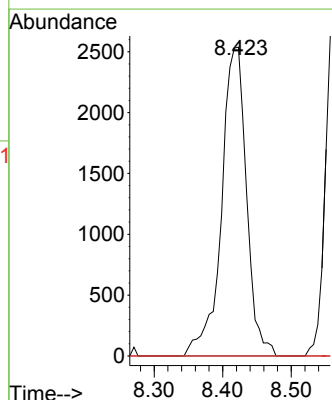
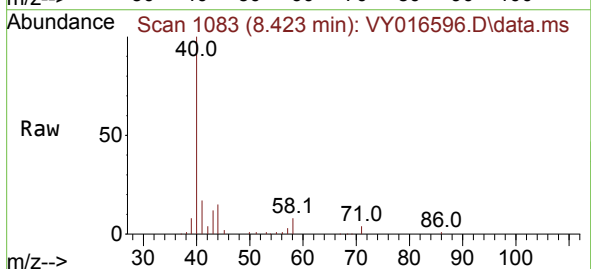
Tgt Ion: 43 Resp: 6442

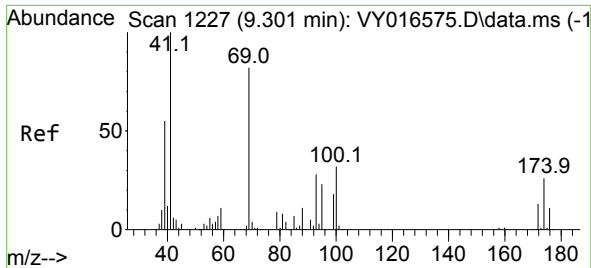
Ion Ratio Lower Upper

43 100

61 0.0 21.1 31.7#

87 0.0 9.8 14.8#

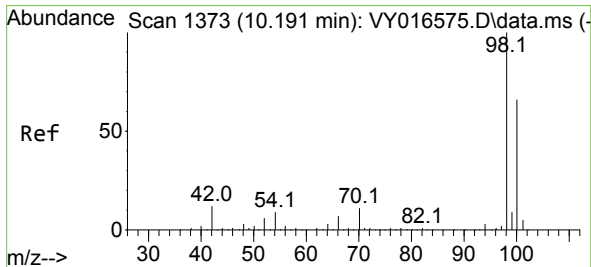
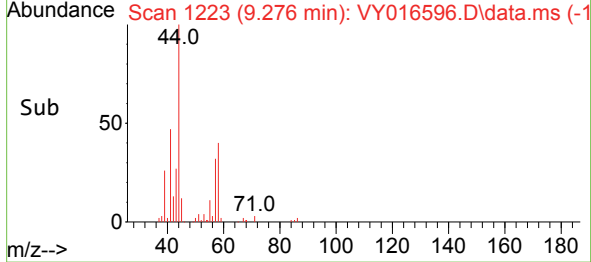
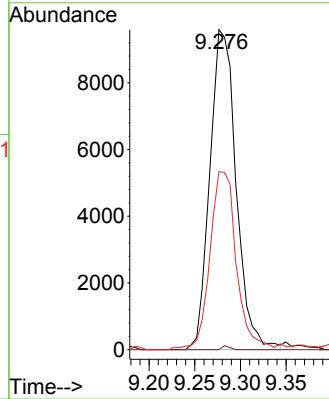
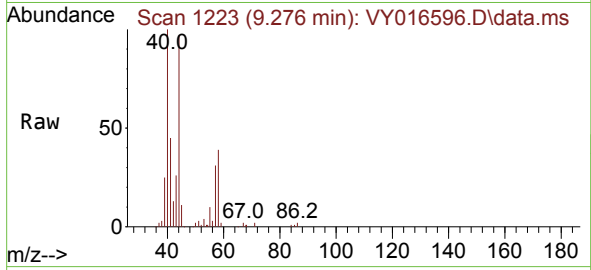




#48
Methyl methacrylate
Concen: 19.364 ug/l
RT: 9.276 min Scan# 11
Delta R.T. -0.025 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

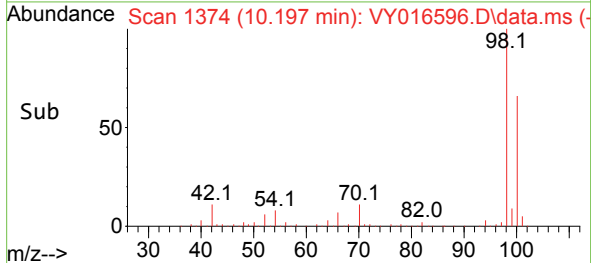
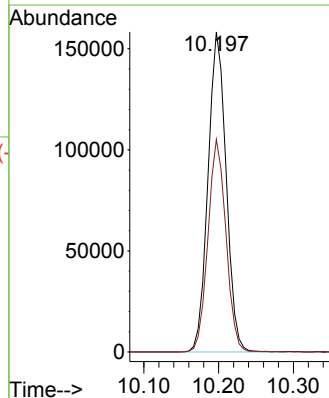
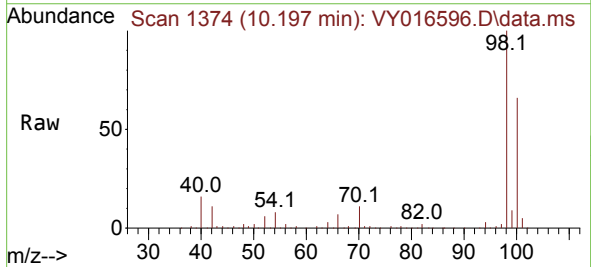
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-3

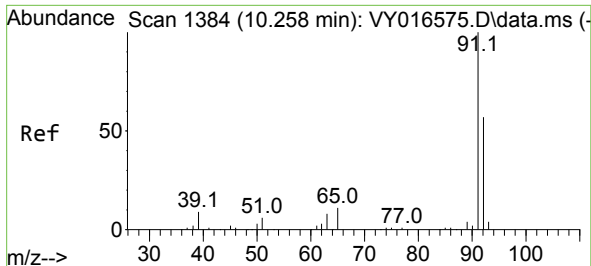
Tgt Ion: 41 Resp: 19165
Ion Ratio Lower Upper
41 100
69 0.3 64.5 96.7#
39 55.8 50.8 76.2



#50
Toluene-d8
Concen: 50.492 ug/l
RT: 10.197 min Scan# 1374
Delta R.T. 0.006 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

Tgt Ion: 98 Resp: 266749
Ion Ratio Lower Upper
98 100
100 66.0 50.1 75.1

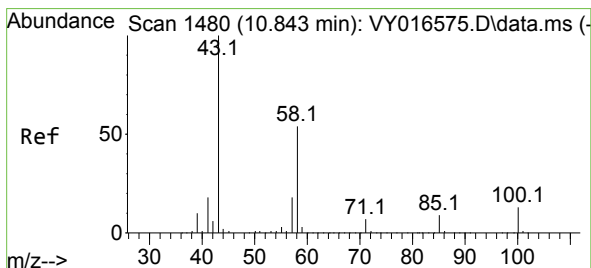
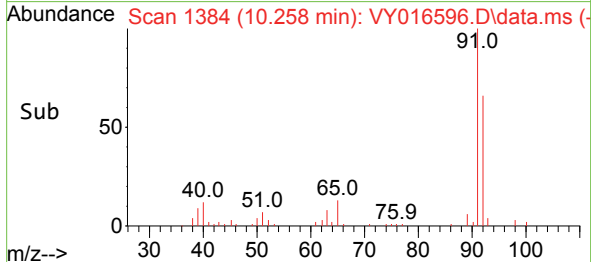
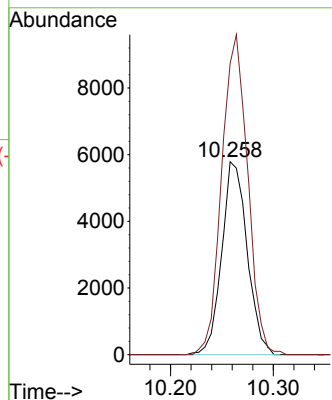
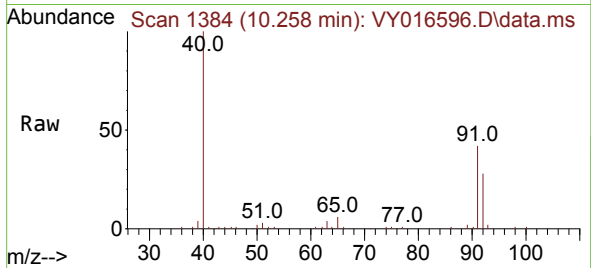




#52
Toluene
Concen: 2.654 ug/l
RT: 10.258 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

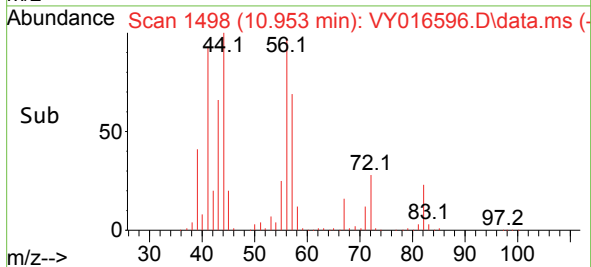
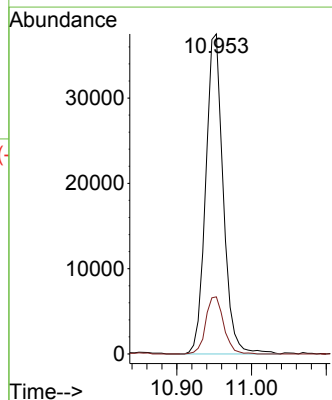
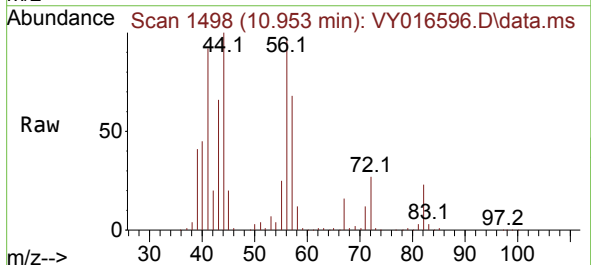
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-3

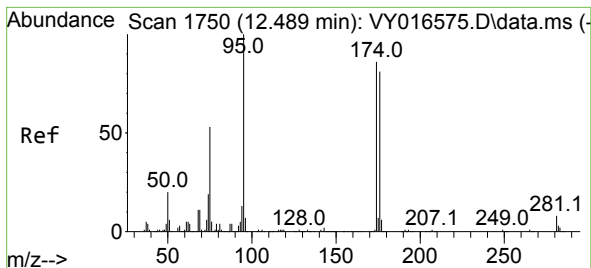
Tgt Ion: 92 Resp: 9955
Ion Ratio Lower Upper
92 100
91 169.2 143.8 215.6



#59
2-Hexanone
Concen: 90.319 ug/l
RT: 10.953 min Scan# 1498
Delta R.T. 0.110 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

Tgt Ion: 43 Resp: 60852
Ion Ratio Lower Upper
43 100
58 18.3 25.1 75.3#

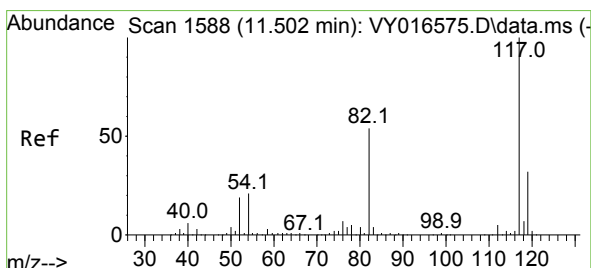
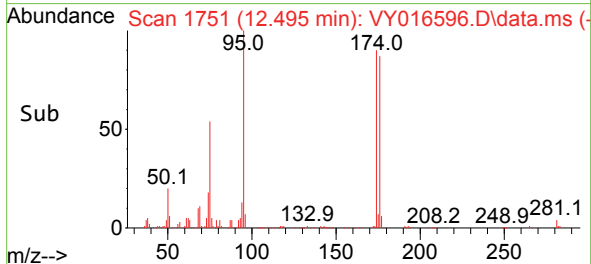
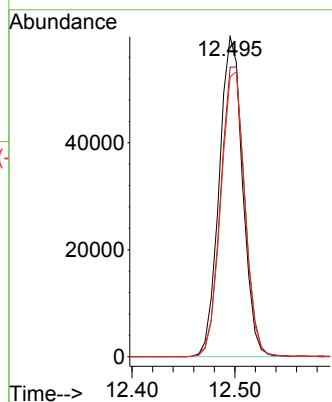
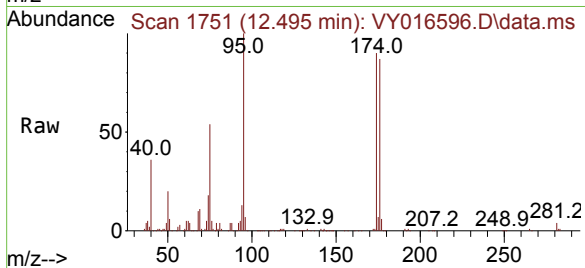




#62
4-Bromofluorobenzene
Concen: 54.497 ug/l
RT: 12.495 min Scan# 1751
Delta R.T. 0.006 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

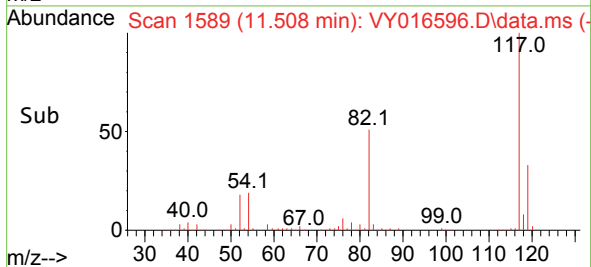
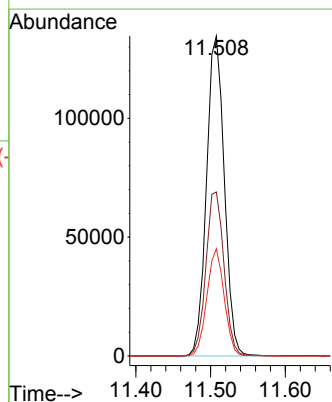
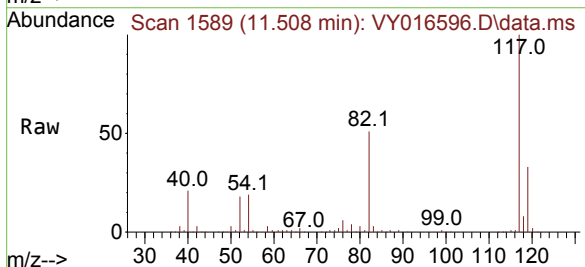
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-3

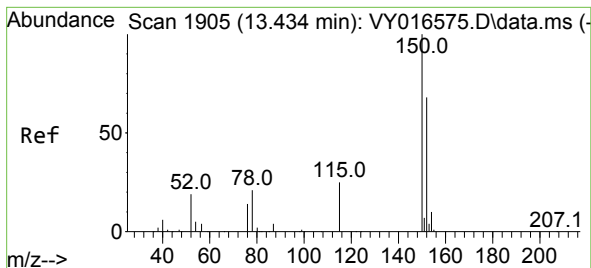
Tgt Ion: 95 Resp: 94678
Ion Ratio Lower Upper
95 100
174 93.3 0.0 178.2
176 91.0 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.508 min Scan# 1589
Delta R.T. 0.006 min
Lab File: VY016596.D
Acq: 05 Dec 2023 15:09

Tgt Ion: 117 Resp: 223000
Ion Ratio Lower Upper
117 100
82 51.2 43.4 65.0
119 33.5 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.440 min Scan# 1905

Delta R.T. 0.006 min

Lab File: VY016596.D

Acq: 05 Dec 2023 15:09

Instrument :

MSVOA_Y

ClientSampleId :

TOPSOIL-LKWD-DENALI-3

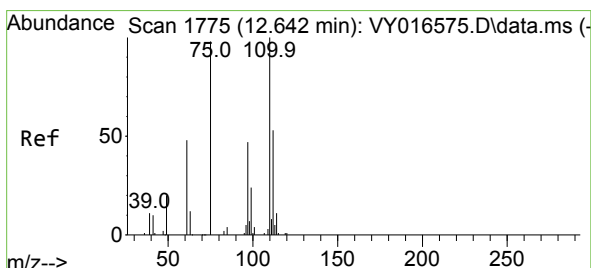
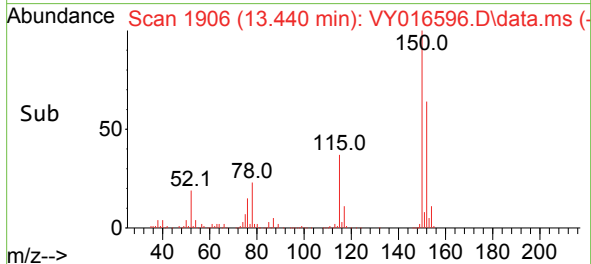
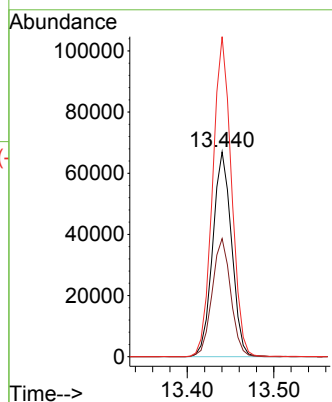
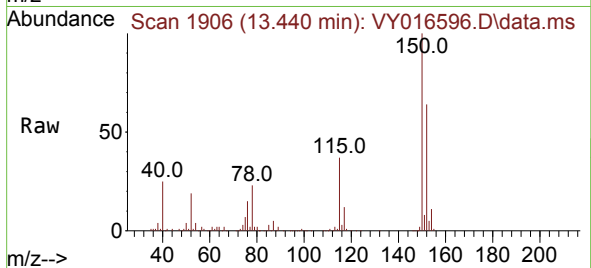
Tgt Ion:152 Resp: 101259

Ion Ratio Lower Upper

152 100

115 57.0 28.8 86.5

150 156.1 0.0 348.8



#76

1,2,3-Trichloropropane

Concen: 54.812 ug/l

RT: 12.495 min Scan# 1751

Delta R.T. -0.147 min

Lab File: VY016596.D

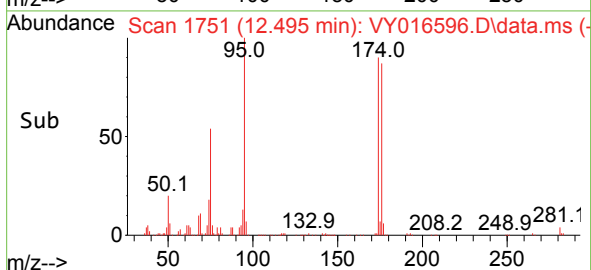
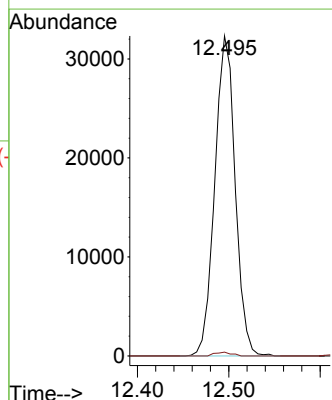
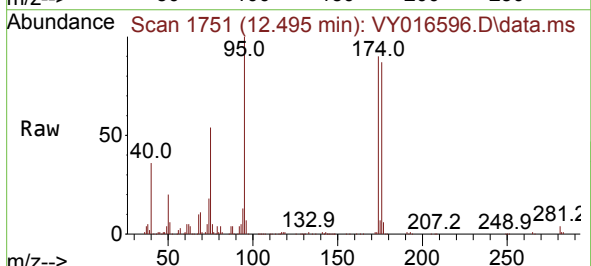
Acq: 05 Dec 2023 15:09

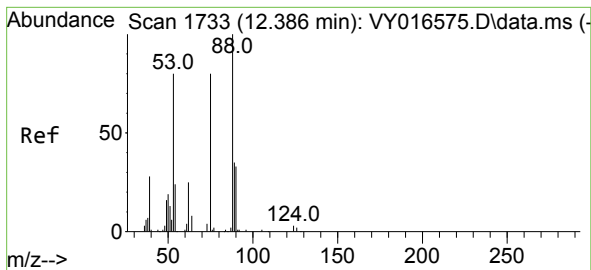
Tgt Ion: 75 Resp: 50137

Ion Ratio Lower Upper

75 100

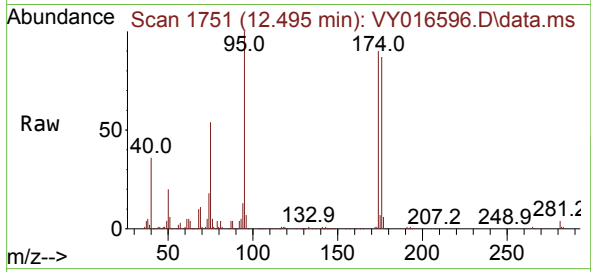
77 1.0 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 123.646 ug/l
 RT: 12.495 min Scan# 11
 Delta R.T. 0.110 min
 Lab File: VY016596.D
 Acq: 05 Dec 2023 15:09

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOPSOIL-LKWD-DENALI-3



Tgt Ion:	75	Resp:	50137
Ion	Ratio	Lower	Upper
75	100		
53	0.0	77.8	116.8#
89	0.3	37.4	56.0#

