

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120523\
 Data File : VY016594.D
 Acq On : 05 Dec 2023 14:23
 Operator : SY/MD
 Sample : 05600-01
 Misc : 3.43g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOPSOIL-LKWD-DENALI-1

Quant Time: Dec 06 02:24:22 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)

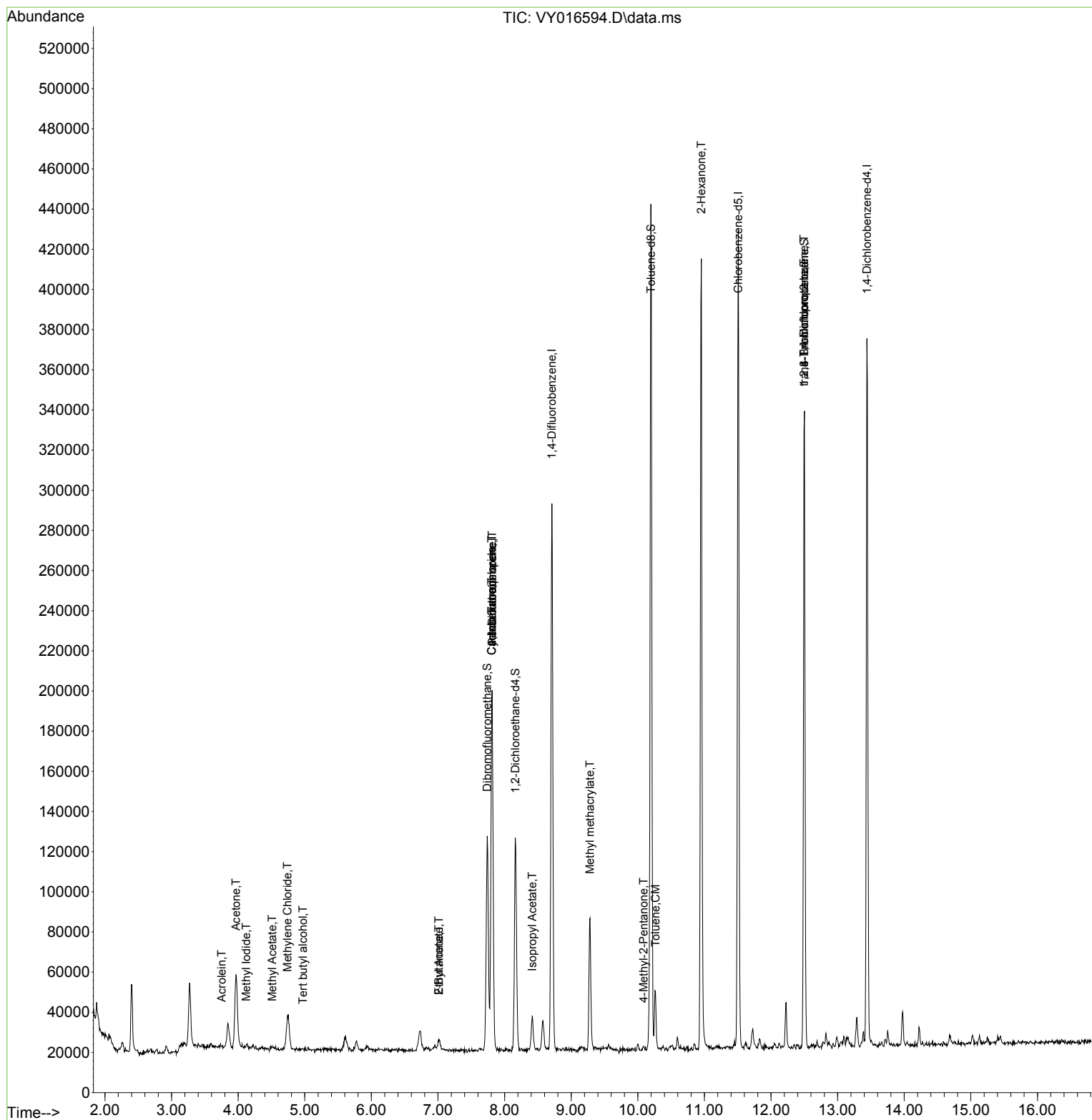
Internal Standards						
1) Pentafluorobenzene	7.813	168	145465	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.709	114	237744	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.508	117	224554	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.440	152	97061	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.161	65	86582	64.398	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 128.800%			
35) Dibromofluoromethane	7.740	113	73021	51.037	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.080%			
50) Toluene-d8	10.197	98	275116	50.836	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.680%			
62) 4-Bromofluorobenzene	12.501	95	94659	53.188	ug/l	0.01
Spiked Amount 50.000	Range 30 - 143		Recovery = 106.380%			
Target Compounds						Qvalue
10) Methyl Iodide	4.119	142	2642	1.757	ug/l #	94
11) Tert butyl alcohol	4.972	59	212	2.314	ug/l #	89
13) Acrolein	3.753	56	655	4.918	ug/l #	66
16) Acetone	3.966	43	65926	216.688	ug/l	94
18) Methyl Acetate	4.509	43	1456	1.207	ug/l #	85
20) Methylene Chloride	4.740	84	13292	7.014	ug/l #	80
25) 2-Butanone	7.014	43	7704	18.415	ug/l	90
31) Cyclohexane	7.807	56	2723	1.186	ug/l #	4
36) 1,1-Dichloropropene	7.813	75	9660	4.442	ug/l #	51
37) Ethyl Acetate	7.014	43	7704	8.465	ug/l #	71
38) Carbon Tetrachloride	7.807	117	14082	5.593	ug/l #	17
43) Isopropyl Acetate	8.417	43	5862	3.339	ug/l #	55
48) Methyl methacrylate	9.282	41	17709	17.466	ug/l #	45
51) 4-Methyl-2-Pentanone	10.087	43	1085	1.189	ug/l	94
52) Toluene	10.264	92	11691	3.043	ug/l	99
59) 2-Hexanone	10.953	43	62660	90.786	ug/l #	52
76) 1,2,3-Trichloropropane	12.495	75	49869	56.877	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.495	75	49869	128.305	ug/l #	11
95) Naphthalene	15.251	128	2803	Below Cal		97
96) 1,2,3-Trichlorobenzene	15.452	180	1271	Below Cal		94

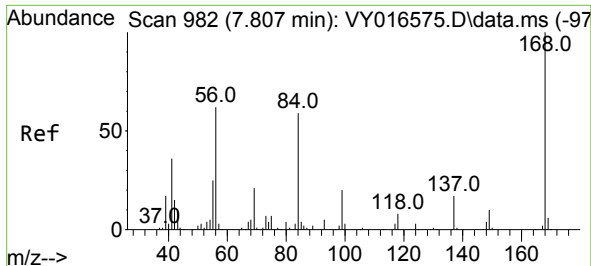
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
TOPSOIL-LKWD-DENALI-1

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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

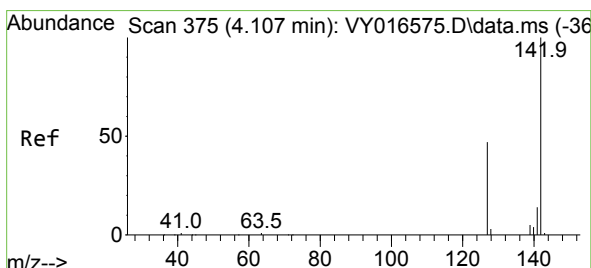
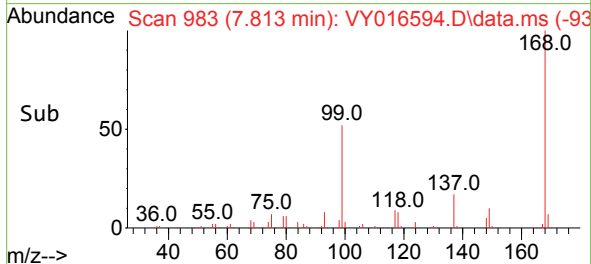
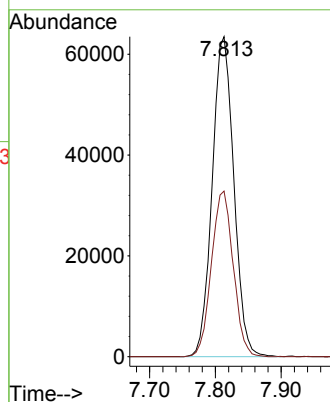
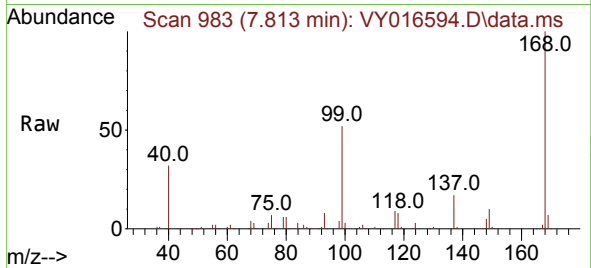




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.813 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

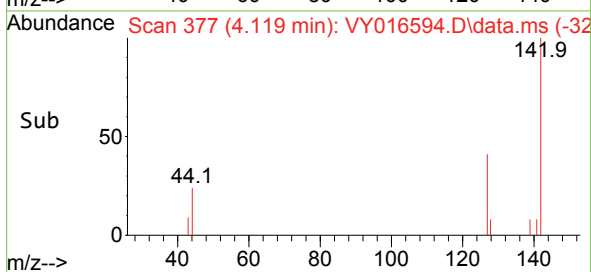
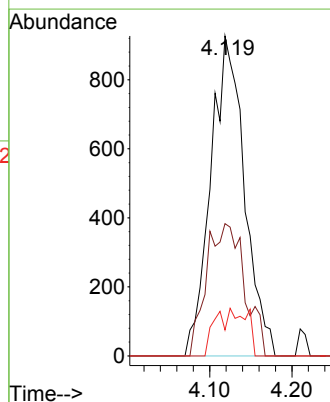
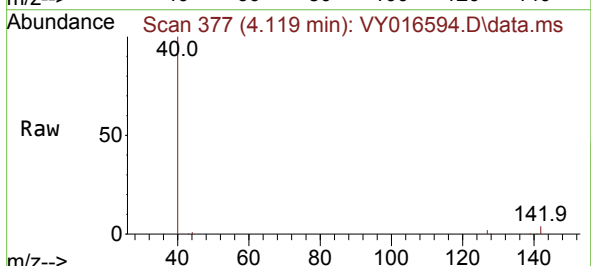
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-1

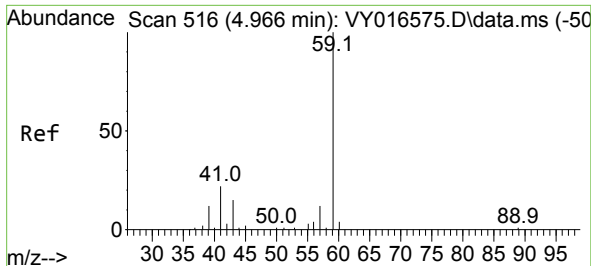
Tgt Ion:168 Resp: 145465
Ion Ratio Lower Upper
168 100
99 51.7 43.4 65.0



#10
Methyl Iodide
Concen: 1.757 ug/l
RT: 4.119 min Scan# 377
Delta R.T. 0.012 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

Tgt Ion:142 Resp: 2642
Ion Ratio Lower Upper
142 100
127 46.6 37.6 56.4
141 5.5 11.8 17.8#

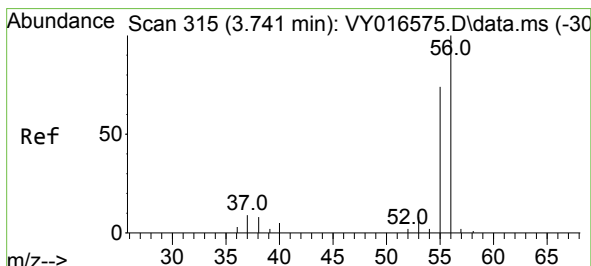
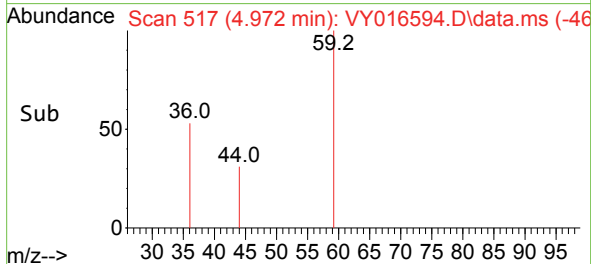
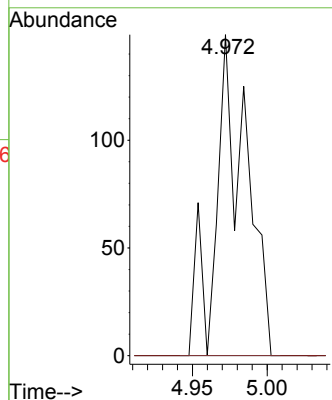
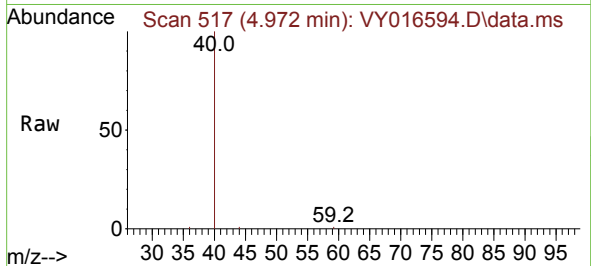




#11
Tert butyl alcohol
Concen: 2.314 ug/l
RT: 4.972 min Scan# 516
Delta R.T. 0.006 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

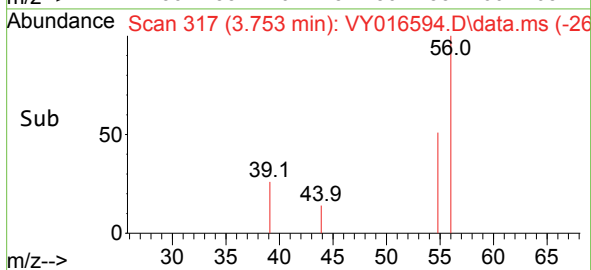
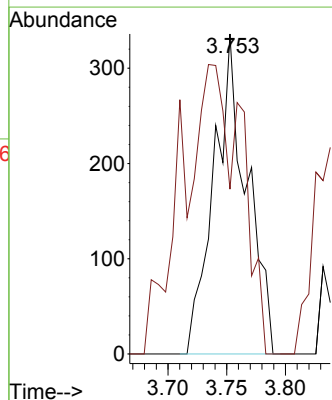
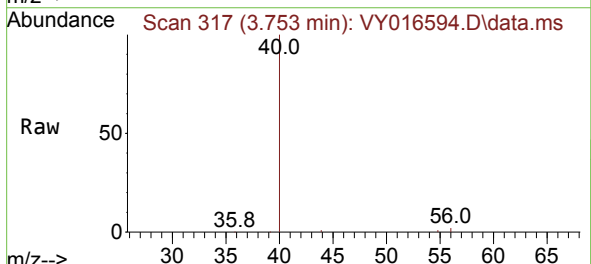
Instrument :
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ClientSampleId :
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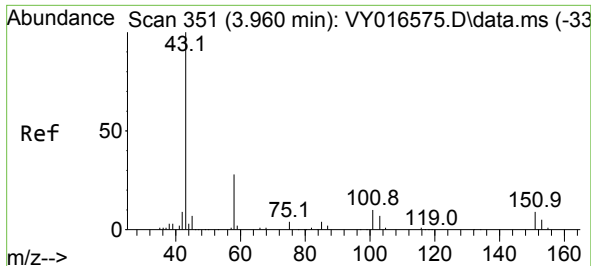
Tgt Ion: 59 Resp: 212
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#



#13
Acrolein
Concen: 4.918 ug/l
RT: 3.753 min Scan# 317
Delta R.T. 0.012 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

Tgt Ion: 56 Resp: 655
Ion Ratio Lower Upper
56 100
55 42.9 57.0 85.4#

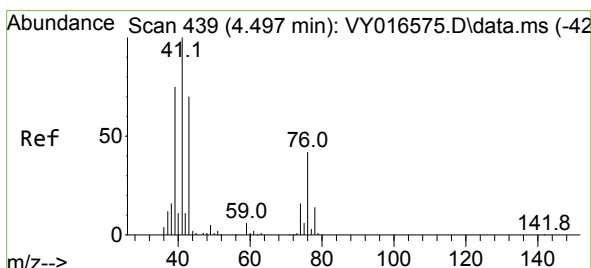
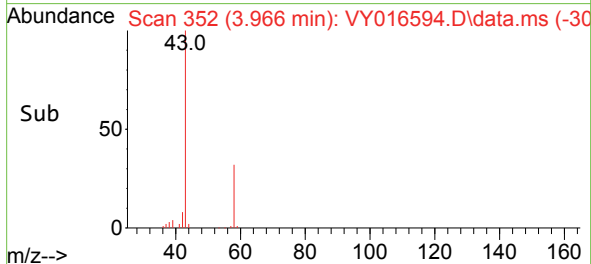
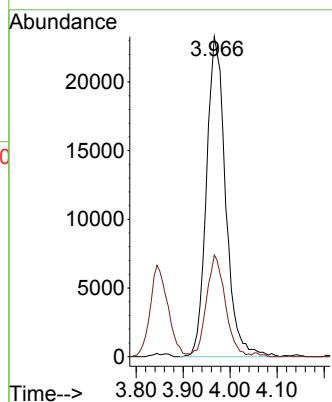
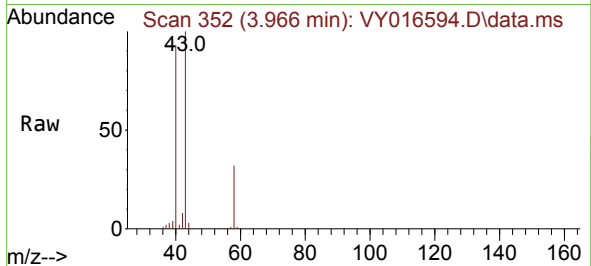




#16
Acetone
Concen: 216.688 ug/l
RT: 3.966 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

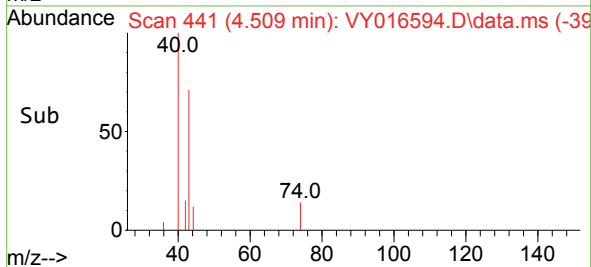
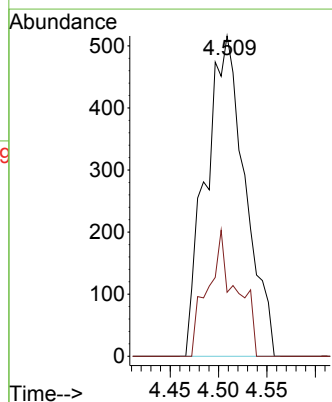
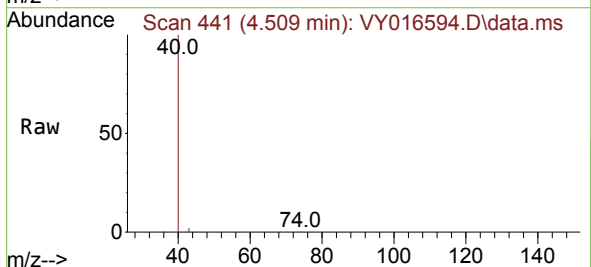
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-1

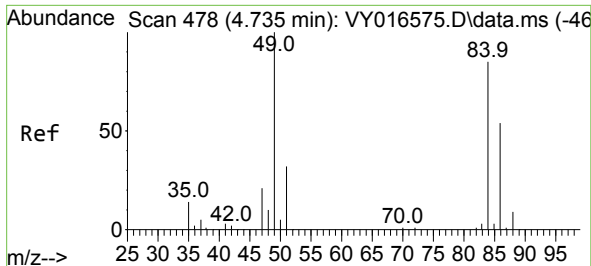
Tgt Ion: 43 Resp: 65926
Ion Ratio Lower Upper
43 100
58 31.8 22.7 34.1



#18
Methyl Acetate
Concen: 1.207 ug/l
RT: 4.509 min Scan# 441
Delta R.T. 0.012 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

Tgt Ion: 43 Resp: 1456
Ion Ratio Lower Upper
43 100
74 28.9 17.4 26.0#

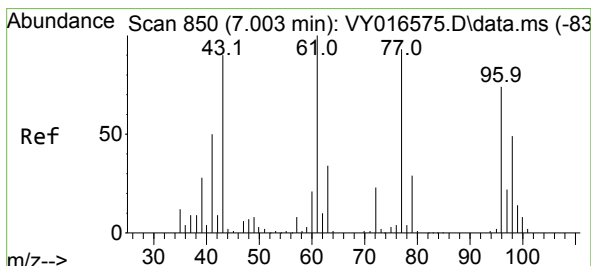
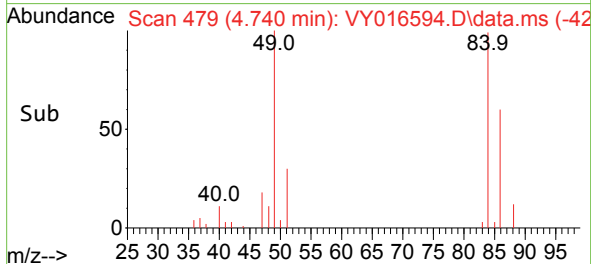
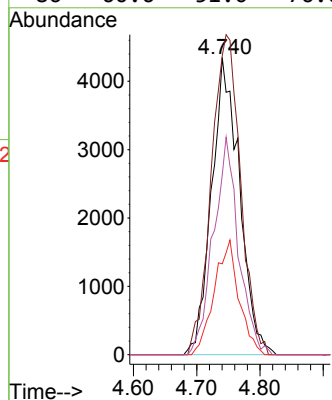
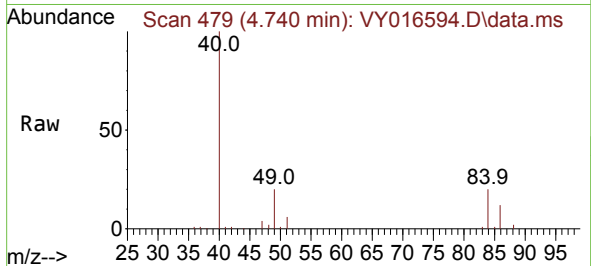




#20
Methylene Chloride
Concen: 7.014 ug/l
RT: 4.740 min Scan# 41
Delta R.T. 0.005 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

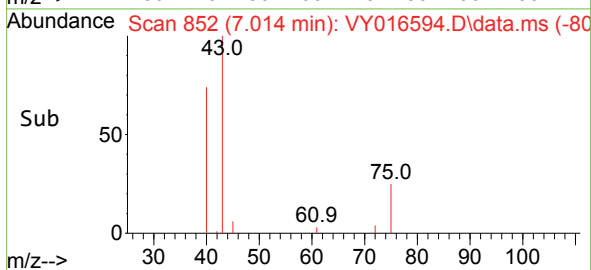
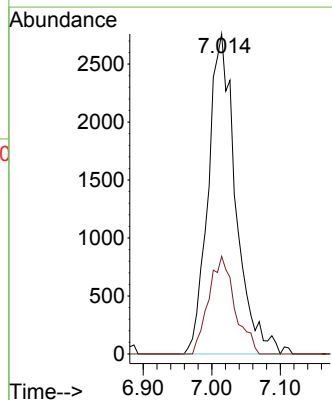
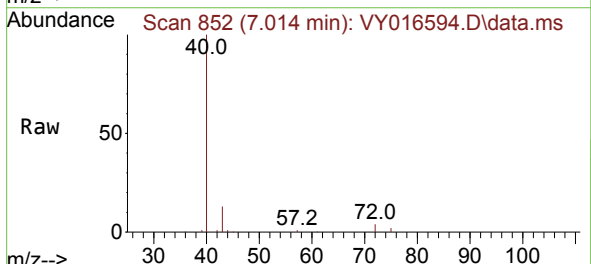
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-1

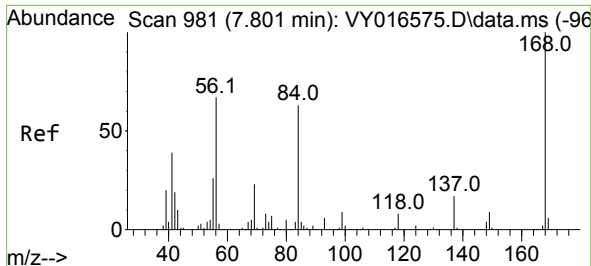
Tgt Ion:	84	Resp:	13292
Ion	Ratio	Lower	Upper
84	100		
49	100.8	106.9	160.3#
51	30.6	33.2	49.8#
86	60.6	51.0	76.6



#25
2-Butanone
Concen: 18.415 ug/l
RT: 7.014 min Scan# 852
Delta R.T. 0.012 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

Tgt Ion:	43	Resp:	7704
Ion	Ratio	Lower	Upper
43	100		
72	30.5	20.5	30.7

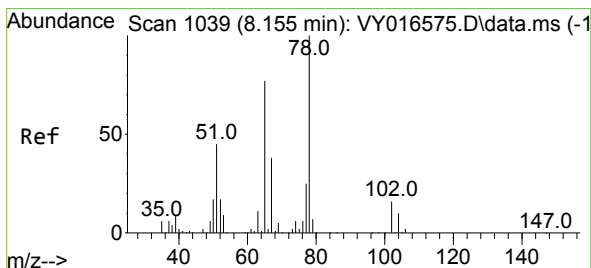
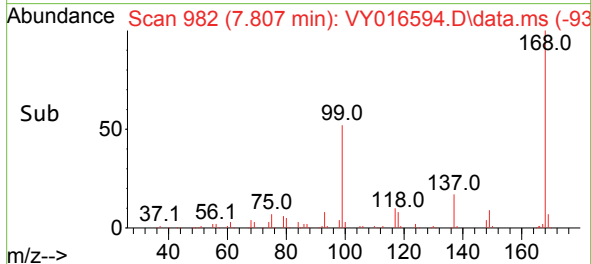
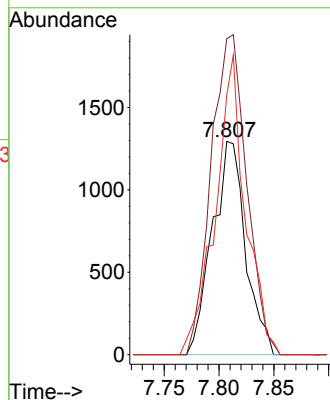
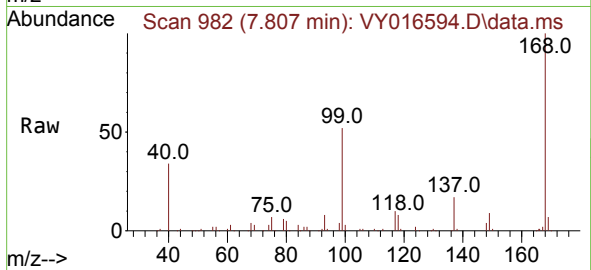




#31
Cyclohexane
Concen: 1.186 ug/l
RT: 7.807 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

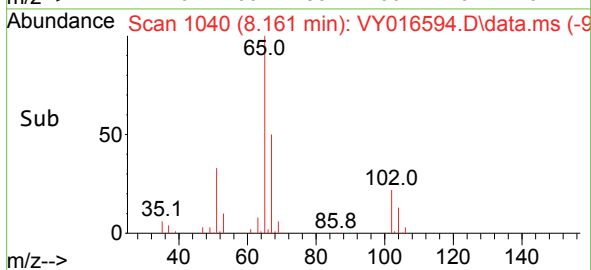
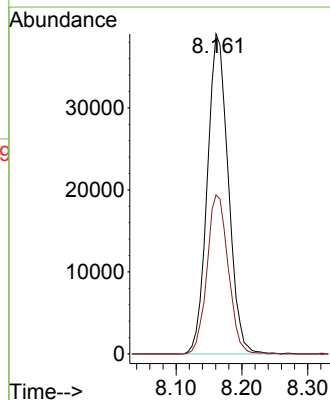
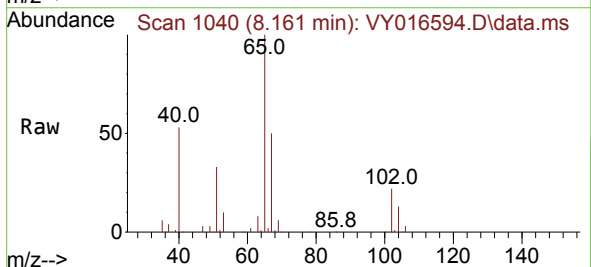
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MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-1

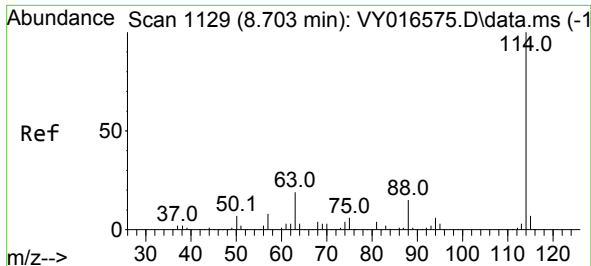
Tgt Ion: 56 Resp: 2723
Ion Ratio Lower Upper
56 100
69 148.2 27.8 41.6#
84 131.1 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 64.398 ug/l
RT: 8.161 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

Tgt Ion: 65 Resp: 86582
Ion Ratio Lower Upper
65 100
67 50.3 0.0 101.8

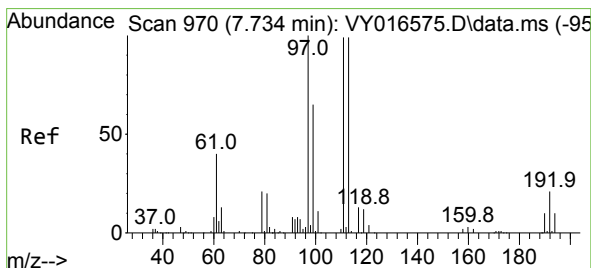
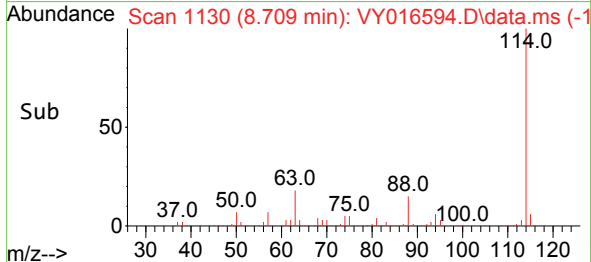
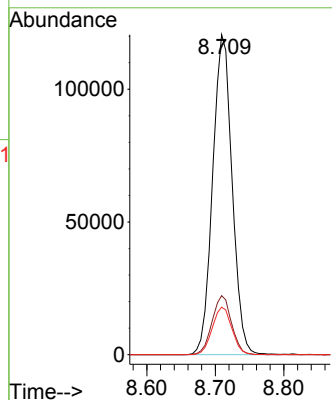
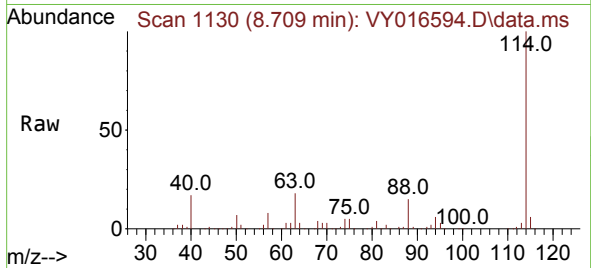




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.709 min Scan# 1129
 Delta R.T. 0.006 min
 Lab File: VY016594.D
 Acq: 05 Dec 2023 14:23

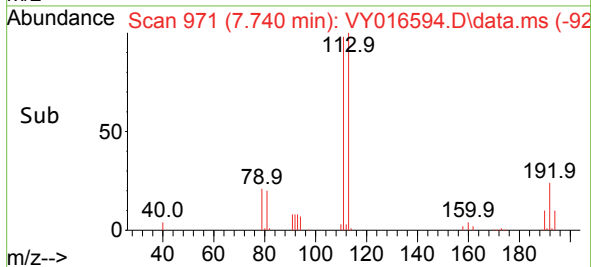
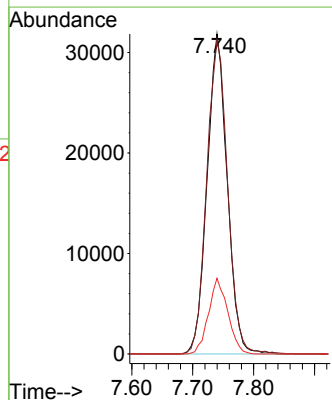
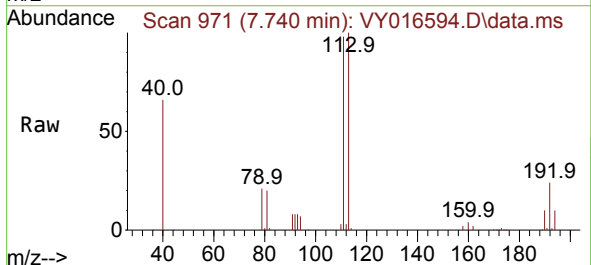
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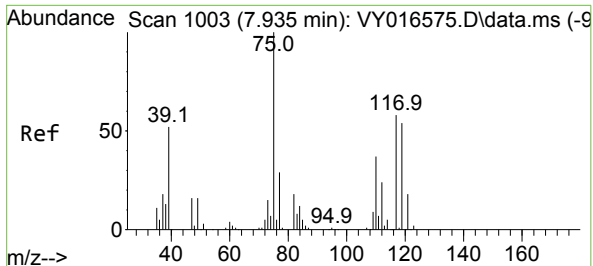
Tgt Ion:114 Resp: 237744
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 42.4
 88 14.8 0.0 30.6



#35
 Dibromofluoromethane
 Concen: 51.037 ug/l
 RT: 7.740 min Scan# 971
 Delta R.T. 0.006 min
 Lab File: VY016594.D
 Acq: 05 Dec 2023 14:23

Tgt Ion:113 Resp: 73021
 Ion Ratio Lower Upper
 113 100
 111 102.1 81.3 121.9
 192 22.7 16.9 25.3

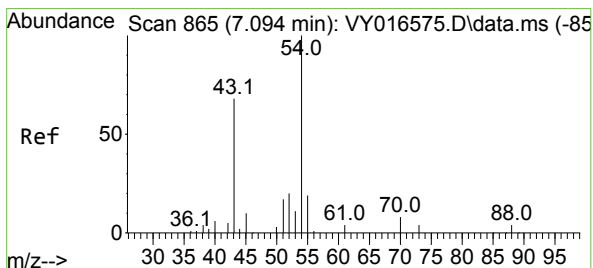
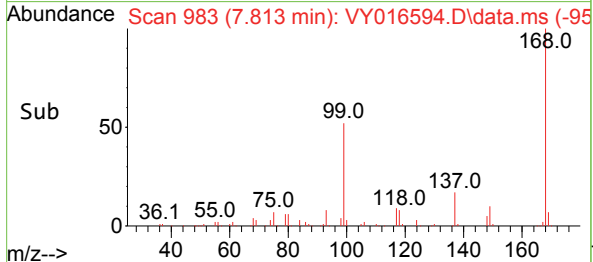
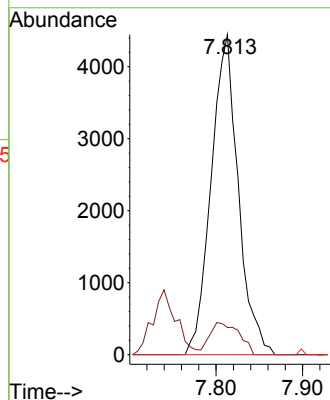
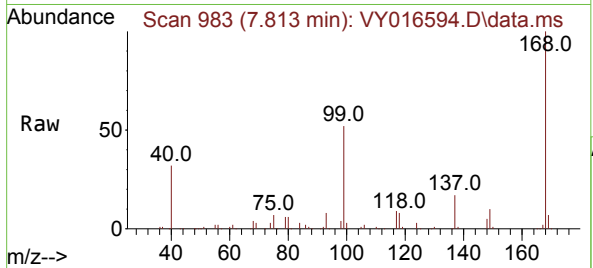




#36
1,1-Dichloropropene
Concen: 4.442 ug/l
RT: 7.813 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

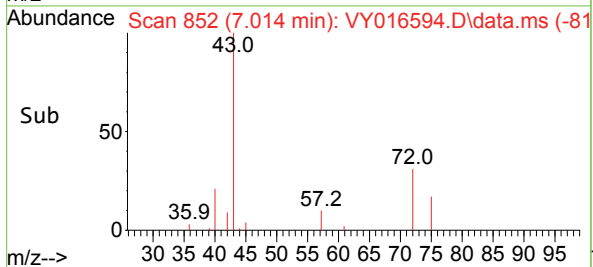
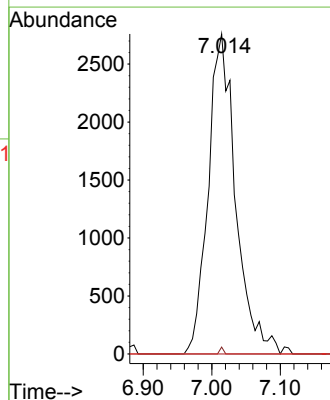
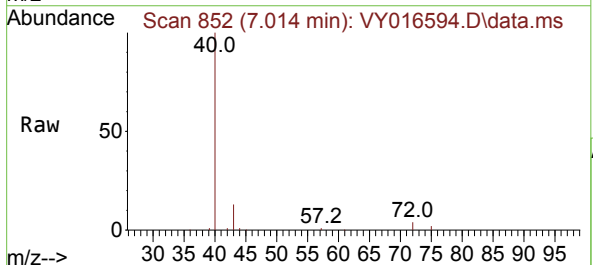
Instrument :
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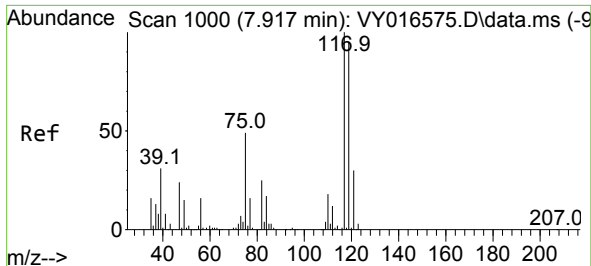
Tgt Ion: 75 Resp: 9660
Ion Ratio Lower Upper
75 100
110 10.8 17.8 53.5#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 8.465 ug/l
RT: 7.014 min Scan# 852
Delta R.T. -0.080 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

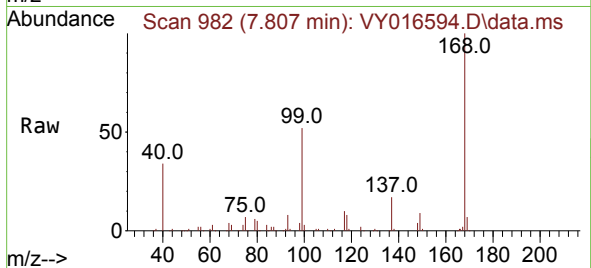
Tgt Ion: 43 Resp: 7704
Ion Ratio Lower Upper
43 100
61 0.3 10.1 15.1#
70 0.0 7.1 10.7#



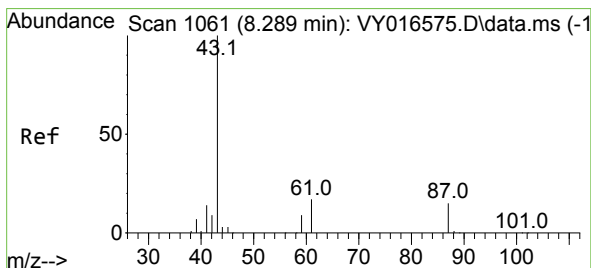
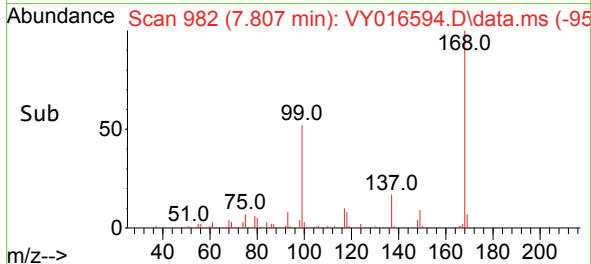
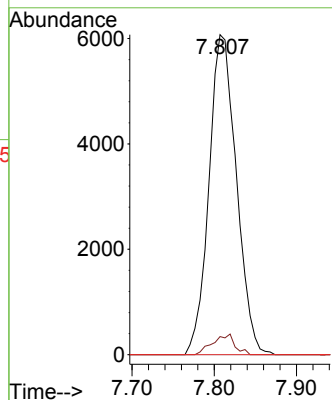


#38
Carbon Tetrachloride
Concen: 5.593 ug/l
RT: 7.807 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-1

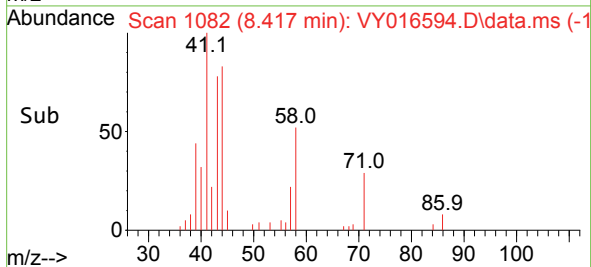
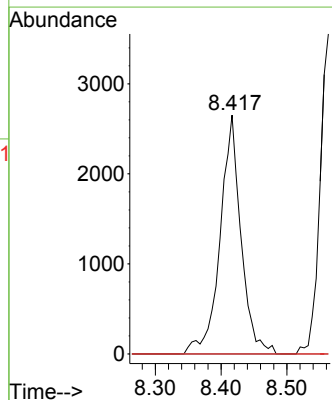
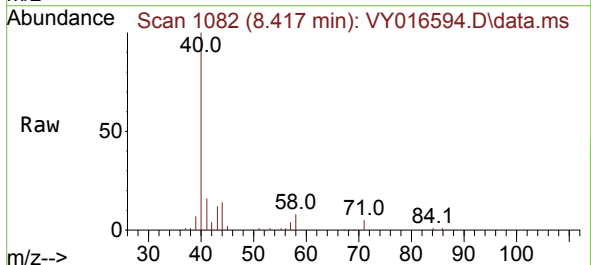


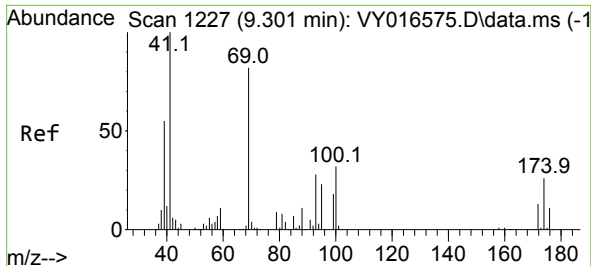
Tgt Ion:117 Resp: 14082
Ion Ratio Lower Upper
117 100
119 5.7 76.4 114.6#
121 0.0 25.8 38.6#



#43
Isopropyl Acetate
Concen: 3.339 ug/l
RT: 8.417 min Scan# 1082
Delta R.T. 0.128 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

Tgt Ion: 43 Resp: 5862
Ion Ratio Lower Upper
43 100
61 0.0 21.1 31.7#
87 0.0 9.8 14.8#

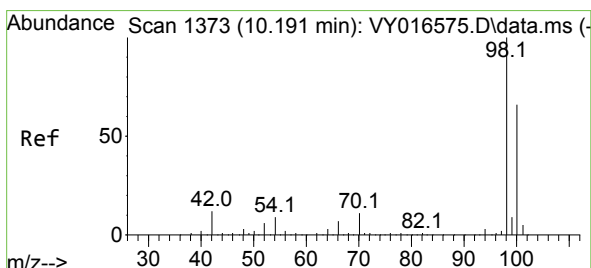
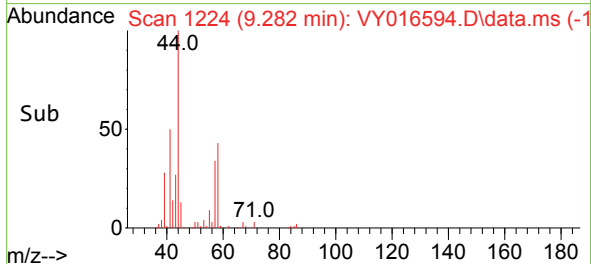
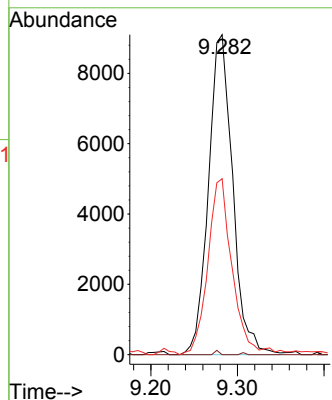
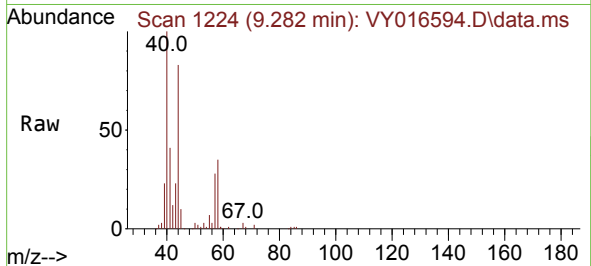




#48
Methyl methacrylate
Concen: 17.466 ug/l
RT: 9.282 min Scan# 11
Delta R.T. -0.019 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

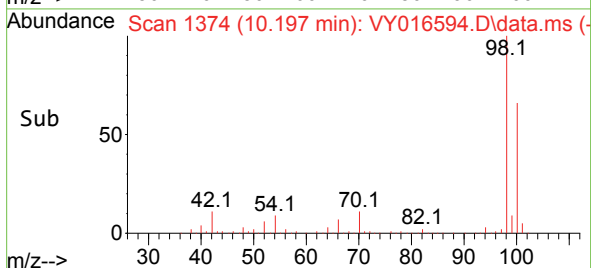
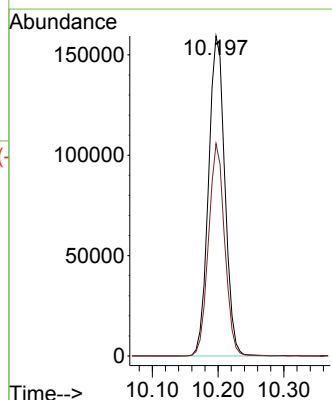
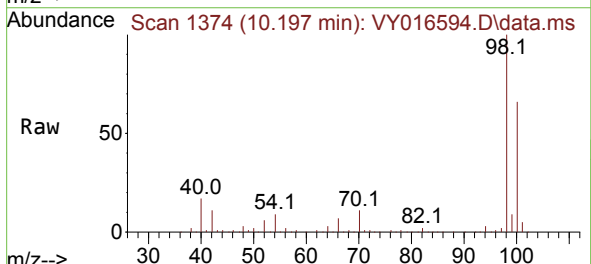
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-1

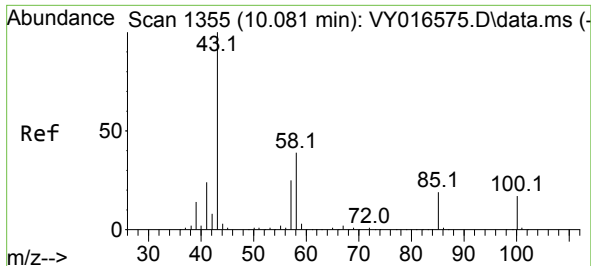
Tgt Ion: 41 Resp: 17709
Ion Ratio Lower Upper
41 100
69 0.3 64.5 96.7#
39 55.6 50.8 76.2



#50
Toluene-d8
Concen: 50.836 ug/l
RT: 10.197 min Scan# 1374
Delta R.T. 0.006 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

Tgt Ion: 98 Resp: 275116
Ion Ratio Lower Upper
98 100
100 65.6 50.1 75.1

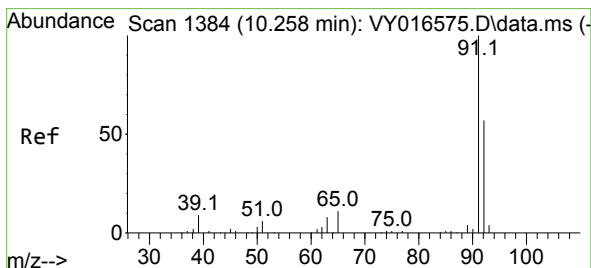
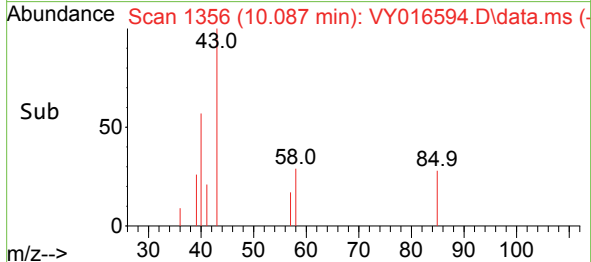
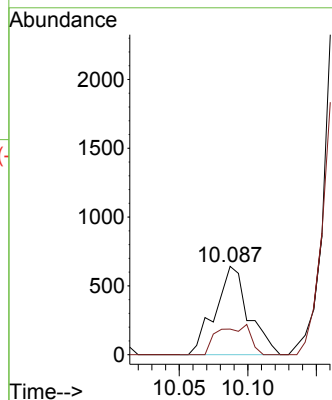
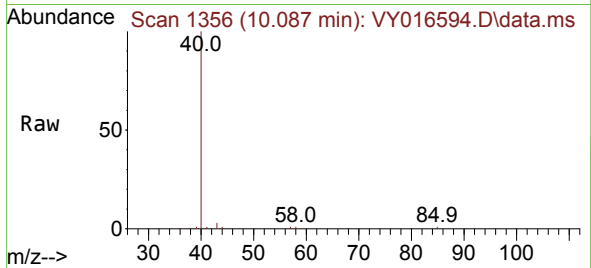




#51
4-Methyl-2-Pentanone
Concen: 1.189 ug/l
RT: 10.087 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

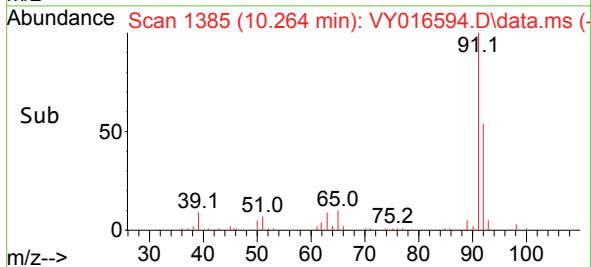
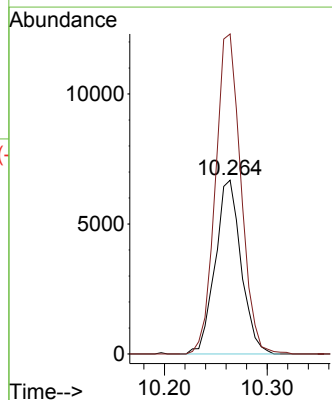
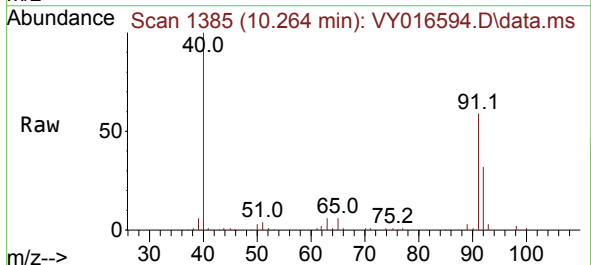
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-1

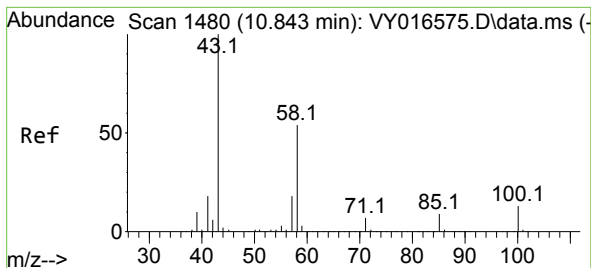
Tgt Ion: 43 Resp: 1085
Ion Ratio Lower Upper
43 100
58 32.5 29.0 43.6



#52
Toluene
Concen: 3.043 ug/l
RT: 10.264 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

Tgt Ion: 92 Resp: 11691
Ion Ratio Lower Upper
92 100
91 181.1 143.8 215.6

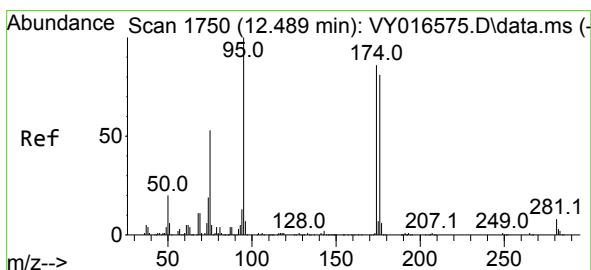
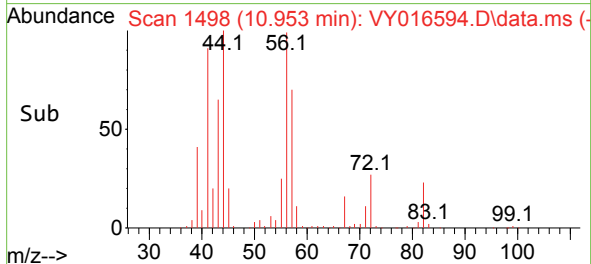
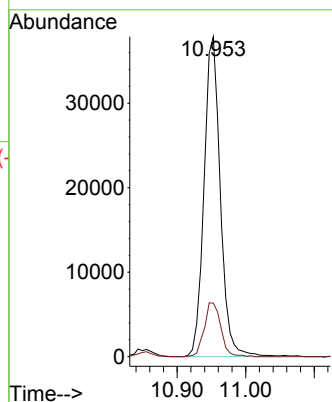
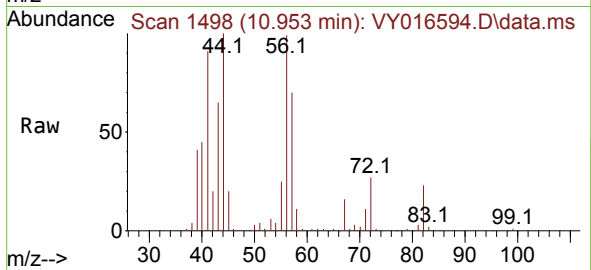




#59
2-Hexanone
Concen: 90.786 ug/l
RT: 10.953 min Scan# 1480
Delta R.T. 0.109 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

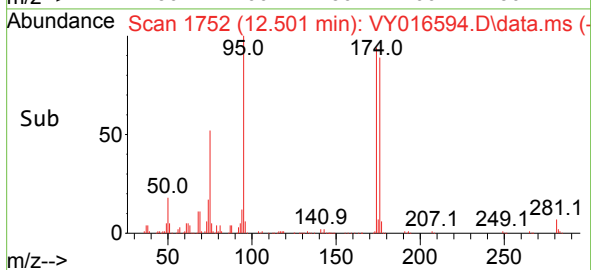
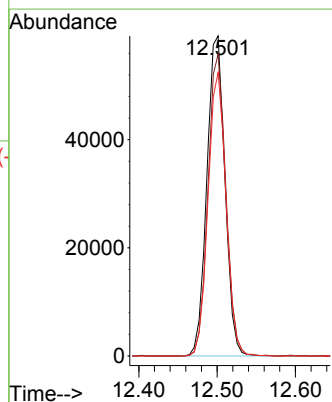
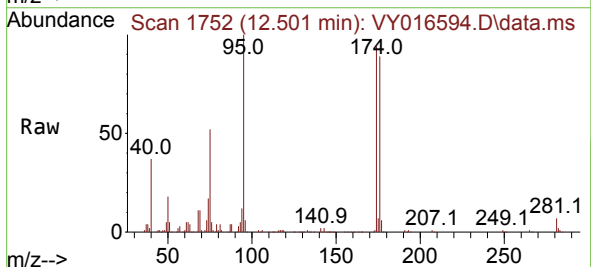
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-1

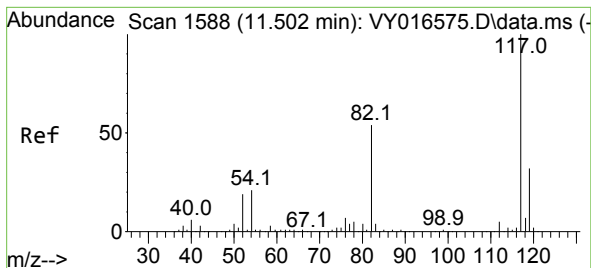
Tgt Ion: 43 Resp: 62660
Ion Ratio Lower Upper
43 100
58 17.2 25.1 75.3#



#62
4-Bromofluorobenzene
Concen: 53.188 ug/l
RT: 12.501 min Scan# 1752
Delta R.T. 0.012 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

Tgt Ion: 95 Resp: 94659
Ion Ratio Lower Upper
95 100
174 93.6 0.0 178.2
176 88.2 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.508 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY016594.D

Acq: 05 Dec 2023 14:23

Instrument :

MSVOA_Y

ClientSampleId :

TOPSOIL-LKWD-DENALI-1

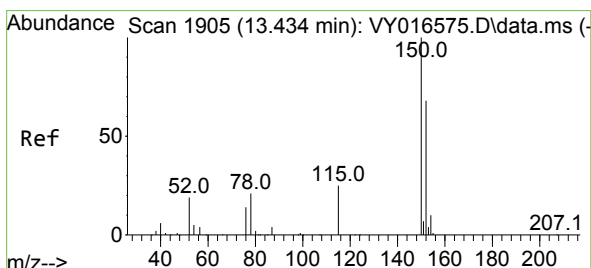
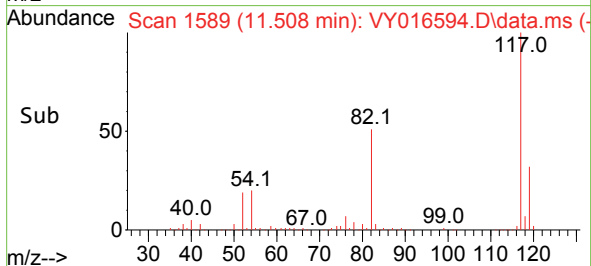
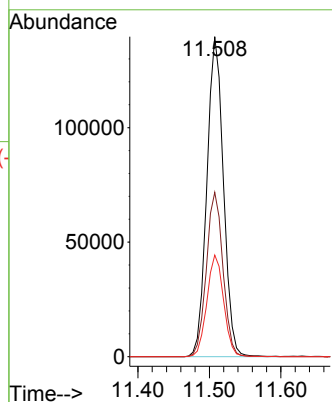
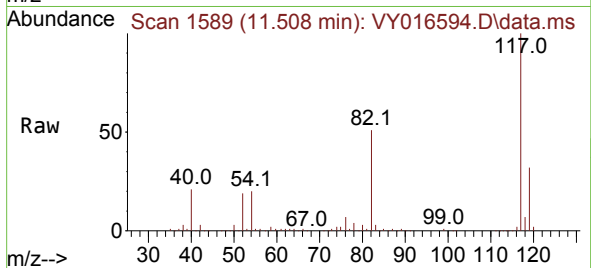
Tgt Ion:117 Resp: 224554

Ion Ratio Lower Upper

117 100

82 51.4 43.4 65.0

119 31.7 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.440 min Scan# 1906

Delta R.T. 0.006 min

Lab File: VY016594.D

Acq: 05 Dec 2023 14:23

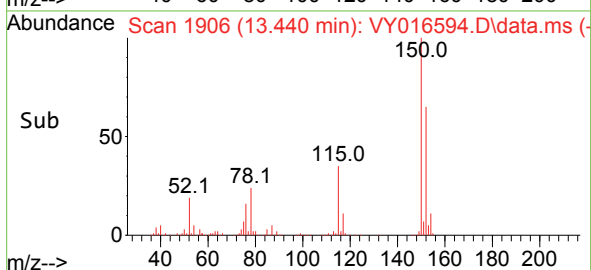
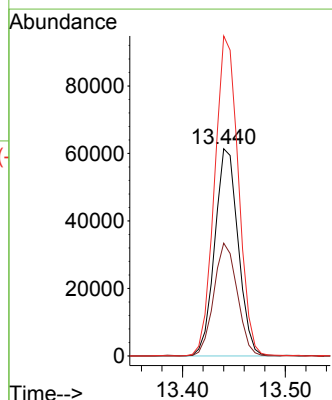
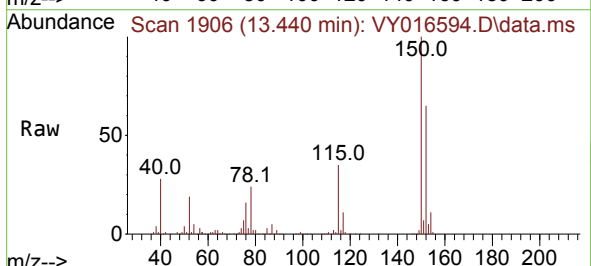
Tgt Ion:152 Resp: 97061

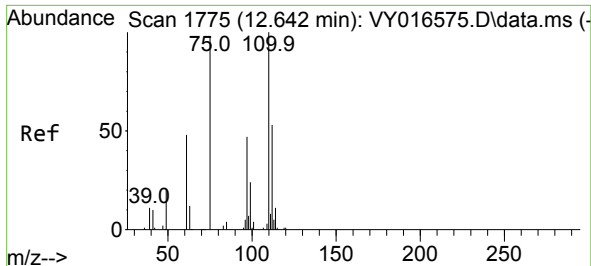
Ion Ratio Lower Upper

152 100

115 54.6 28.8 86.5

150 156.8 0.0 348.8

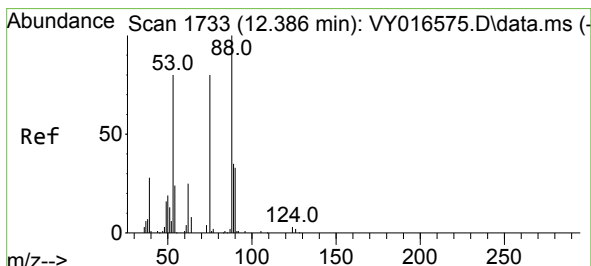
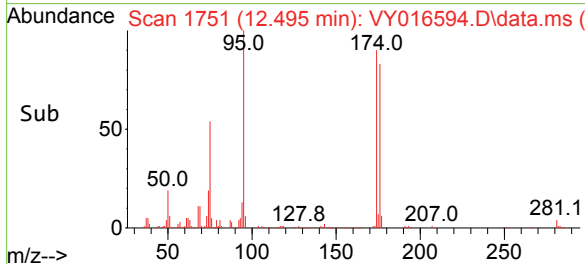
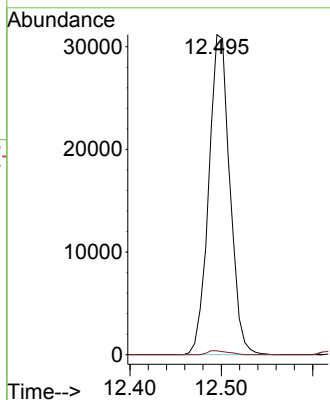
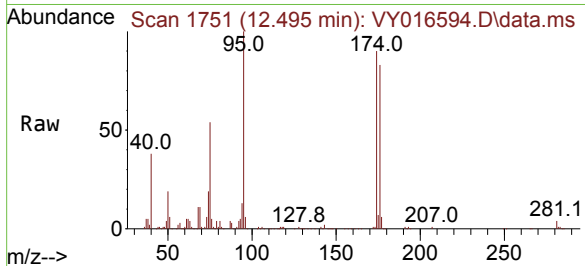




#76
1,2,3-Trichloropropane
Concen: 56.877 ug/l
RT: 12.495 min Scan# 1751
Delta R.T. -0.147 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-1

Tgt Ion: 75 Resp: 49869
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 128.305 ug/l
RT: 12.495 min Scan# 1751
Delta R.T. 0.109 min
Lab File: VY016594.D
Acq: 05 Dec 2023 14:23

Tgt Ion: 75 Resp: 49869
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.1 37.4 56.0#

