

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120523\
 Data File : VY016595.D
 Acq On : 05 Dec 2023 14:46
 Operator : SY/MD
 Sample : 05600-03
 Misc : 2.91g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOPSOIL-LKWD-DENALI-2

Quant Time: Dec 06 02:24:46 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)

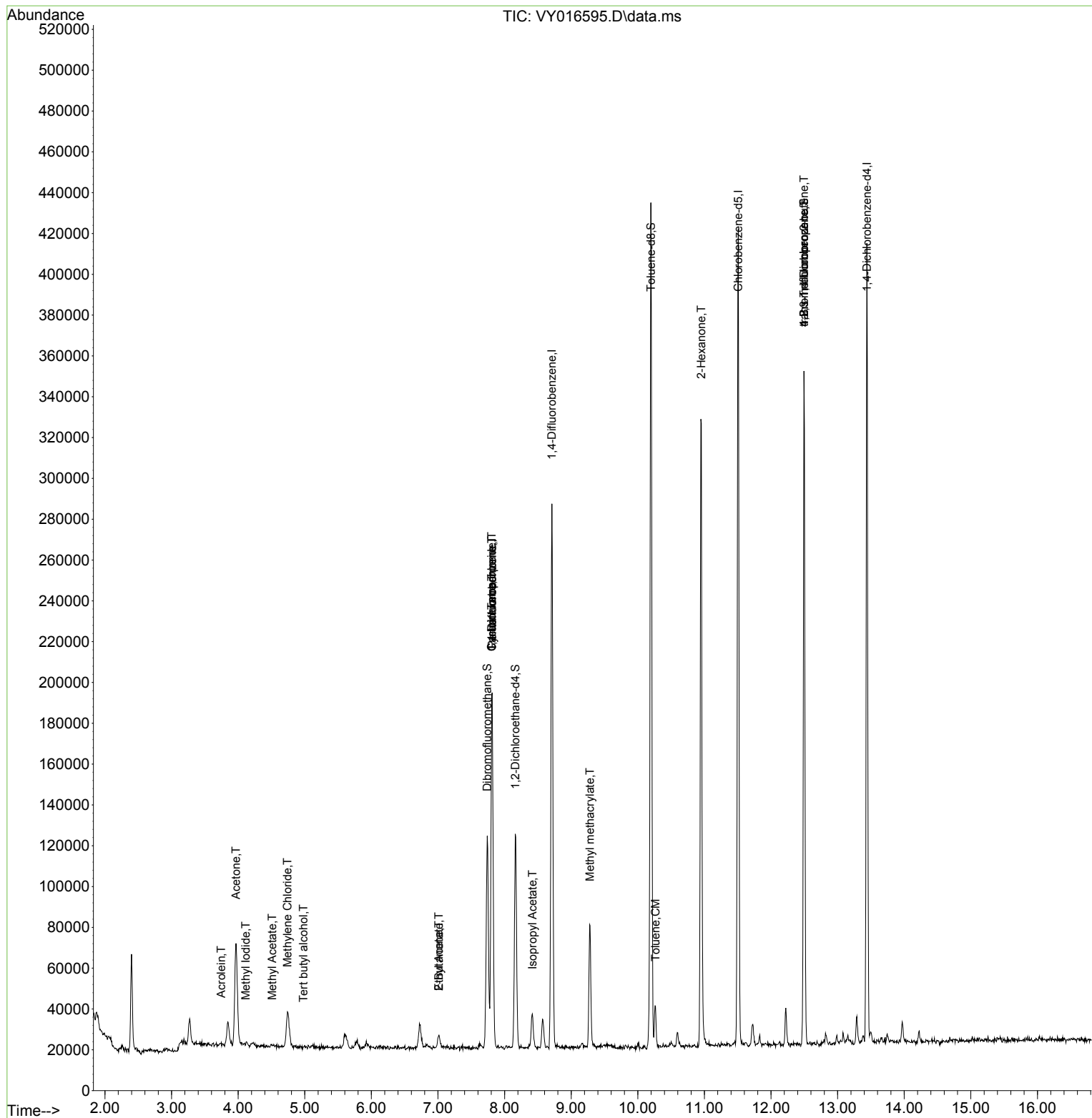
Internal Standards						
1) Pentafluorobenzene	7.813	168	142801	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.709	114	234613	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.508	117	222674	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.440	152	103609	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.161	65	86851	65.803	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 131.600%			
35) Dibromofluoromethane	7.740	113	71839	50.881	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.760%			
50) Toluene-d8	10.197	98	269401	50.444	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.880%			
62) 4-Bromofluorobenzene	12.495	95	96700	55.060	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 110.120%			
Target Compounds						Qvalue
10) Methyl Iodide	4.113	142	1963	1.330	ug/l #	91
11) Tert butyl alcohol	4.978	59	308	3.425	ug/l #	89
13) Acrolein	3.747	56	673	5.148	ug/l	93
16) Acetone	3.966	43	91187	305.309	ug/l	96
18) Methyl Acetate	4.509	43	2117	1.788	ug/l #	80
20) Methylene Chloride	4.741	84	13745	7.581	ug/l	87
25) 2-Butanone	7.015	43	9337	22.735	ug/l #	70
31) Cyclohexane	7.807	56	2395	1.063	ug/l #	6
36) 1,1-Dichloropropene	7.807	75	9663	4.502	ug/l #	51
37) Ethyl Acetate	7.015	43	9337	10.397	ug/l #	71
38) Carbon Tetrachloride	7.807	117	13582	5.466	ug/l #	17
43) Isopropyl Acetate	8.417	43	5388	3.110	ug/l #	55
48) Methyl methacrylate	9.283	41	16648	16.639	ug/l #	44
52) Toluene	10.264	92	8606	2.270	ug/l	93
59) 2-Hexanone	10.953	43	50143	73.620	ug/l #	53
76) 1,2,3-Trichloropropane	12.495	75	50351	53.798	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.495	75	50351	121.358	ug/l #	11
95) Naphthalene	15.245	128	1522	Below Cal	#	94
96) 1,2,3-Trichlorobenzene	15.440	180	391	Below Cal	#	67

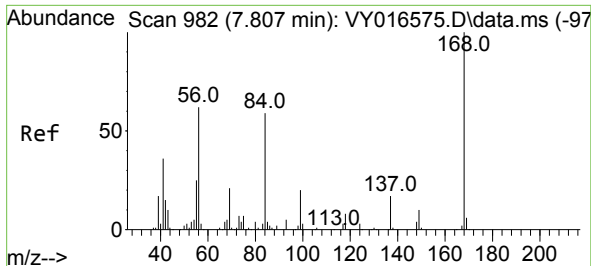
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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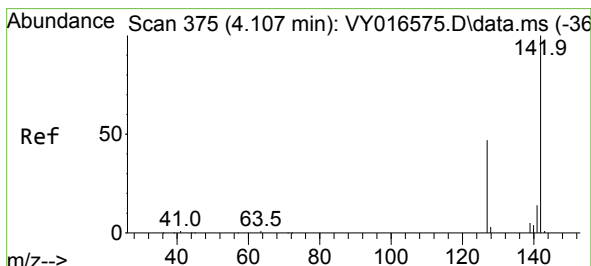
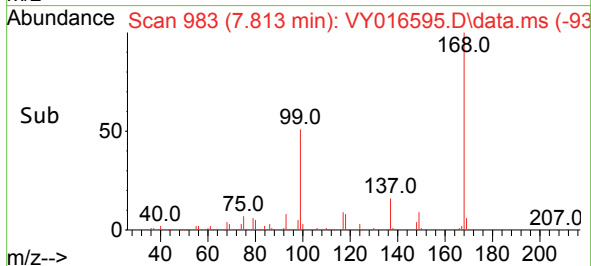
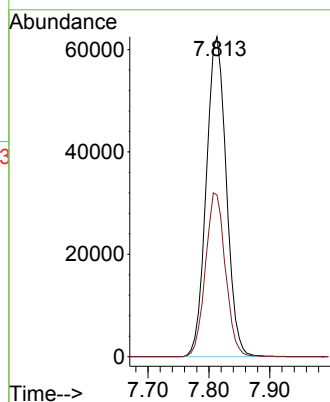
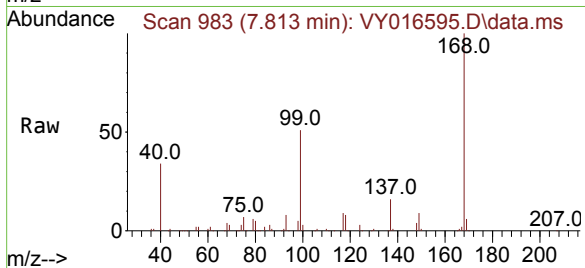




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.813 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY016595.D
Acq: 05 Dec 2023 14:46

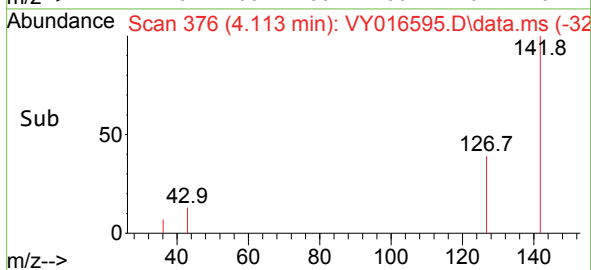
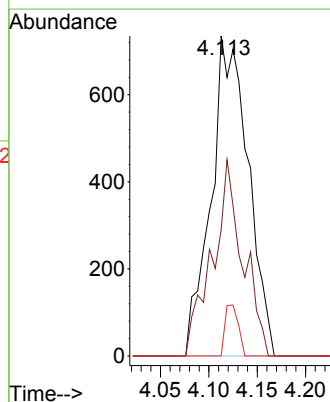
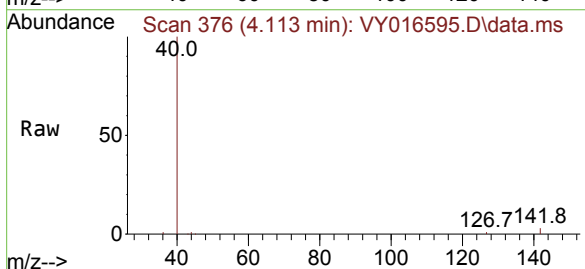
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-2

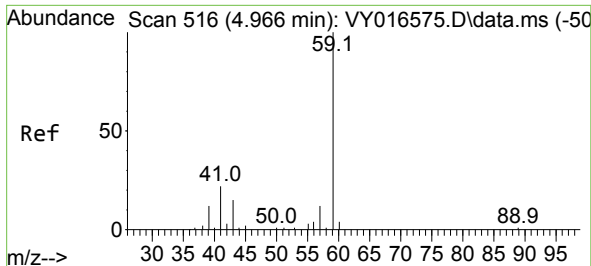
Tgt Ion:168 Resp: 142801
Ion Ratio Lower Upper
168 100
99 50.5 43.4 65.0



#10
Methyl Iodide
Concen: 1.330 ug/l
RT: 4.113 min Scan# 376
Delta R.T. 0.006 min
Lab File: VY016595.D
Acq: 05 Dec 2023 14:46

Tgt Ion:142 Resp: 1963
Ion Ratio Lower Upper
142 100
127 50.4 37.6 56.4
141 5.6 11.8 17.8#





#11

Tert butyl alcohol

Concen: 3.425 ug/l

RT: 4.978 min Scan# 516

Delta R.T. 0.012 min

Lab File: VY016595.D

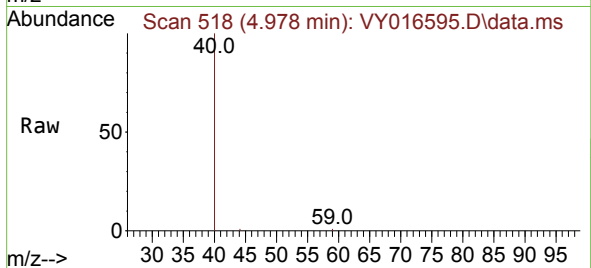
Acq: 05 Dec 2023 14:46

Instrument :

MSVOA_Y

ClientSampleId :

TOPSOIL-LKWD-DENALI-2

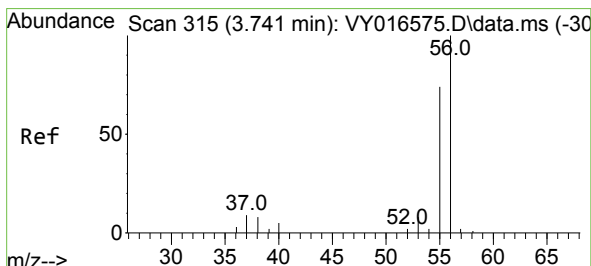
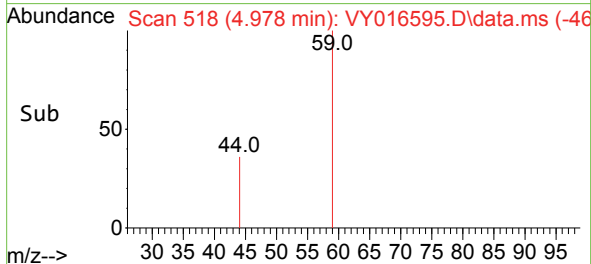
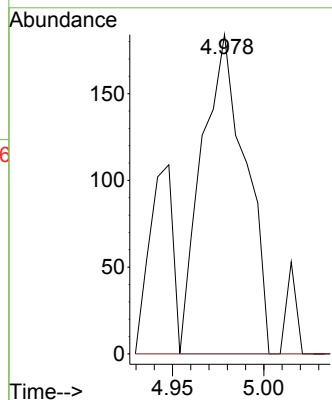


Tgt Ion: 59 Resp: 308

Ion Ratio Lower Upper

59 100

57 0.0 3.0 4.4#



#13

Acrolein

Concen: 5.148 ug/l

RT: 3.747 min Scan# 316

Delta R.T. 0.006 min

Lab File: VY016595.D

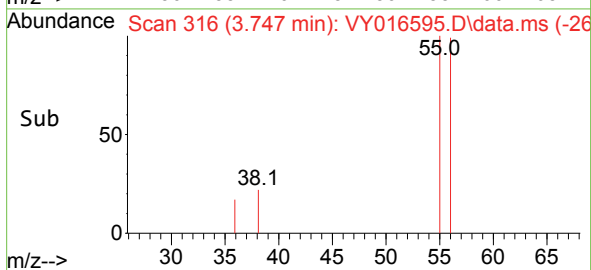
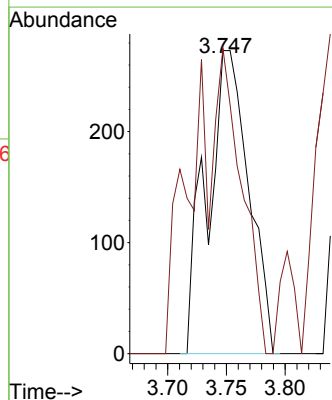
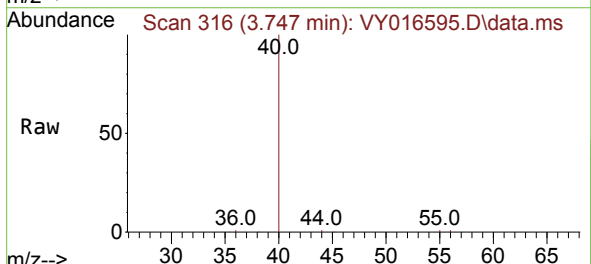
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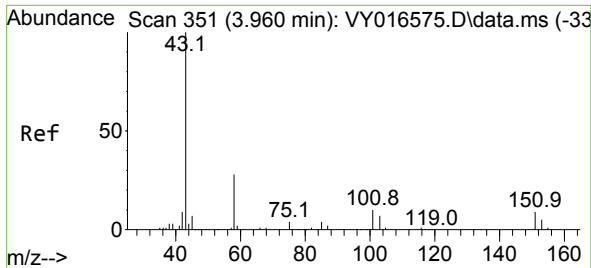
Tgt Ion: 56 Resp: 673

Ion Ratio Lower Upper

56 100

55 65.1 57.0 85.4

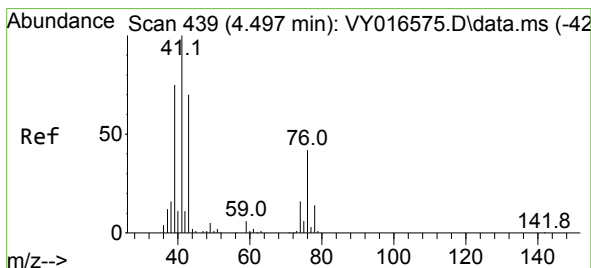
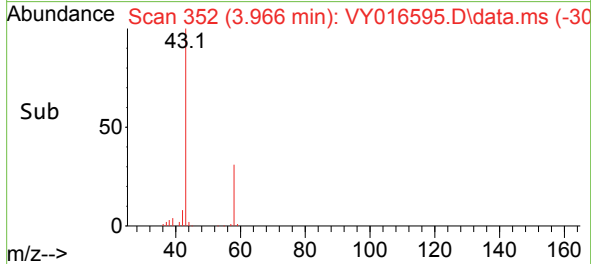
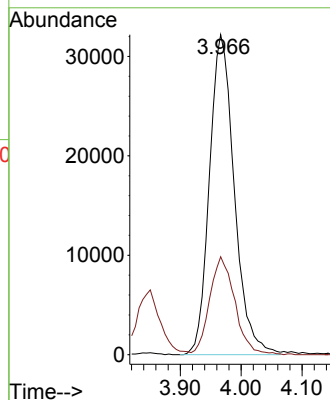
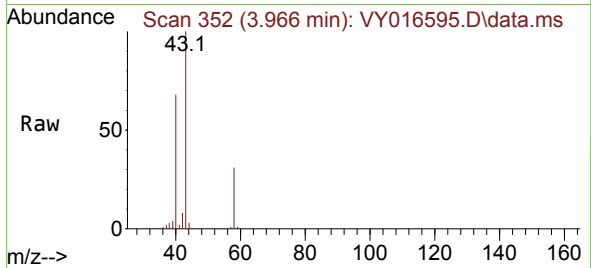




#16
Acetone
Concen: 305.309 ug/l
RT: 3.966 min Scan# 311
Delta R.T. 0.006 min
Lab File: VY016595.D
Acq: 05 Dec 2023 14:46

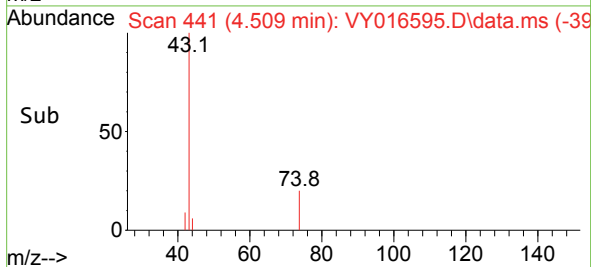
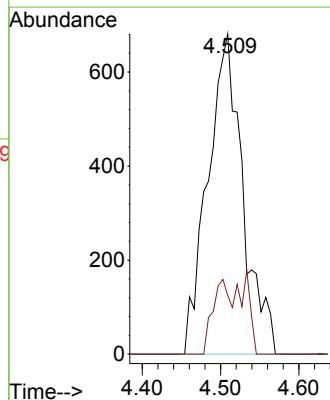
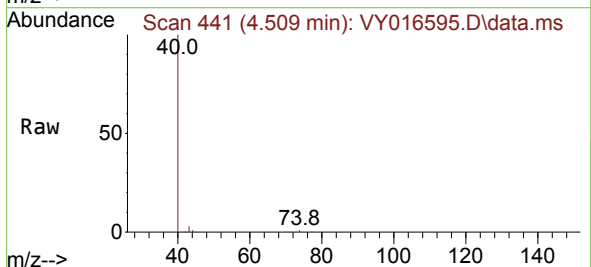
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-2

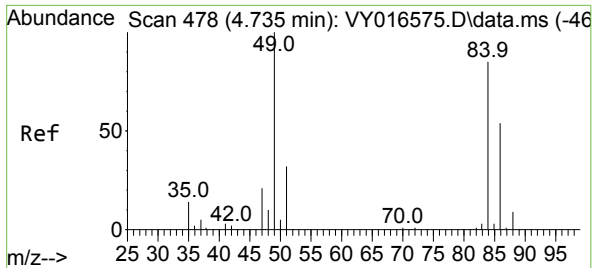
Tgt Ion: 43 Resp: 91187
Ion Ratio Lower Upper
43 100
58 30.3 22.7 34.1



#18
Methyl Acetate
Concen: 1.788 ug/l
RT: 4.509 min Scan# 441
Delta R.T. 0.012 min
Lab File: VY016595.D
Acq: 05 Dec 2023 14:46

Tgt Ion: 43 Resp: 2117
Ion Ratio Lower Upper
43 100
74 12.0 17.4 26.0#





#20

Methylene Chloride

Concen: 7.581 ug/l

RT: 4.741 min Scan# 41

Delta R.T. 0.006 min

Lab File: VY016595.D

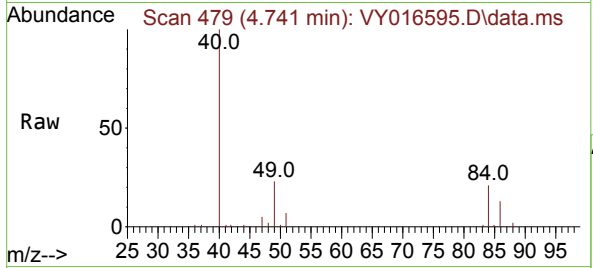
Acq: 05 Dec 2023 14:46

Instrument :

MSVOA_Y

ClientSampleId :

TOPSOIL-LKWD-DENALI-2



Tgt Ion: 84 Resp: 13745

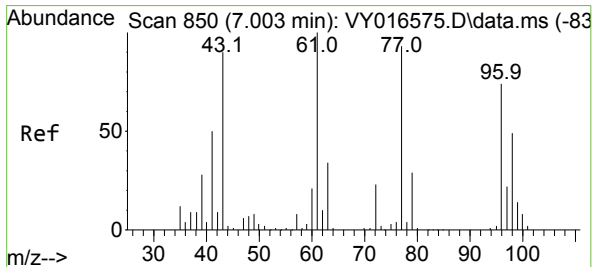
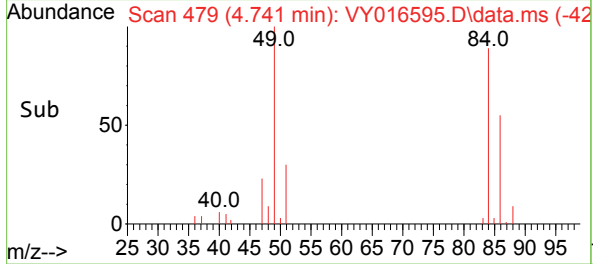
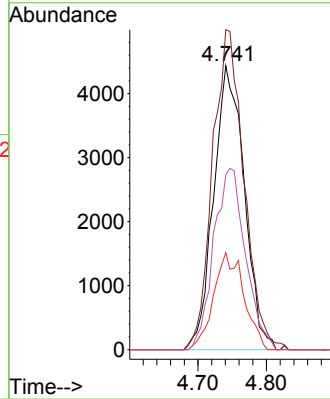
Ion Ratio Lower Upper

84 100

49 112.7 106.9 160.3

51 34.2 33.2 49.8

86 61.6 51.0 76.6



#25

2-Butanone

Concen: 22.735 ug/l

RT: 7.015 min Scan# 852

Delta R.T. 0.012 min

Lab File: VY016595.D

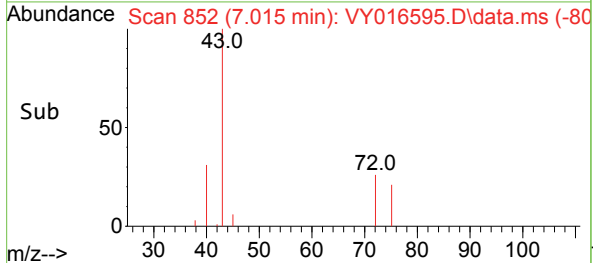
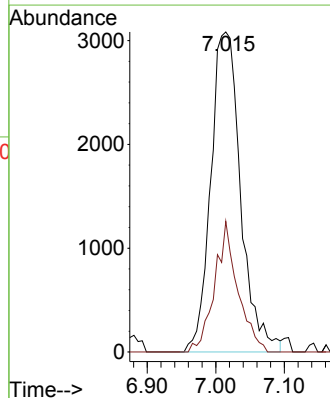
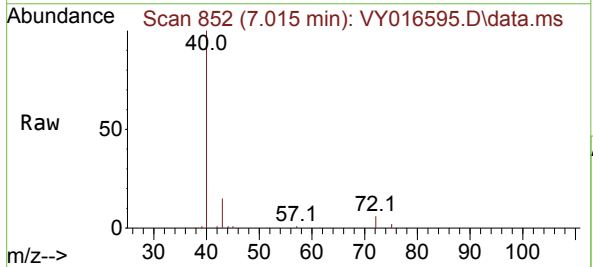
Acq: 05 Dec 2023 14:46

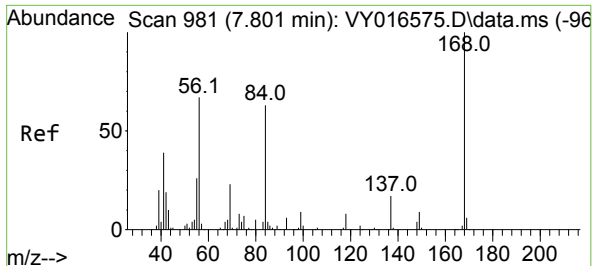
Tgt Ion: 43 Resp: 9337

Ion Ratio Lower Upper

43 100

72 40.8 20.5 30.7#

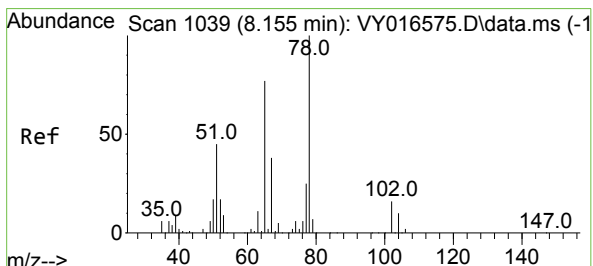
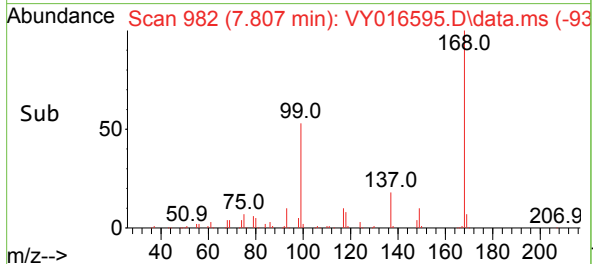
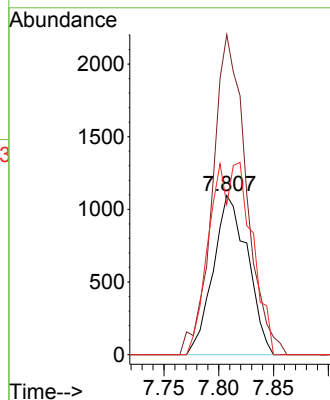
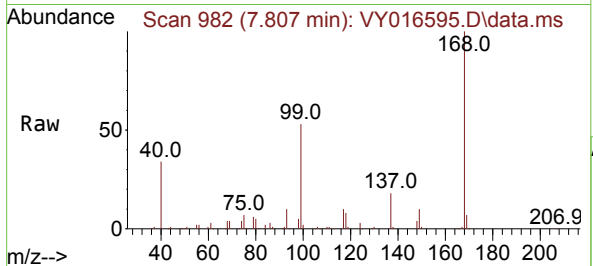




#31
Cyclohexane
Concen: 1.063 ug/l
RT: 7.807 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY016595.D
Acq: 05 Dec 2023 14:46

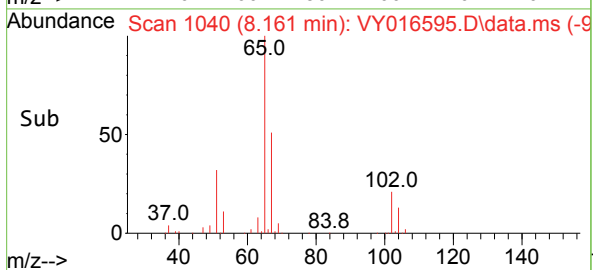
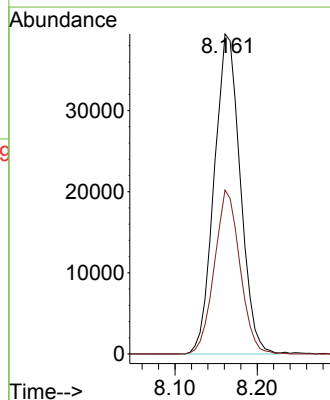
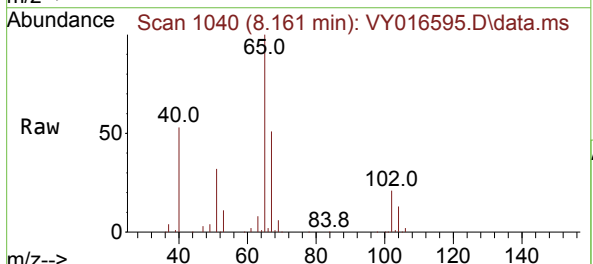
Instrument :
MSVOA_Y
ClientSampleId :
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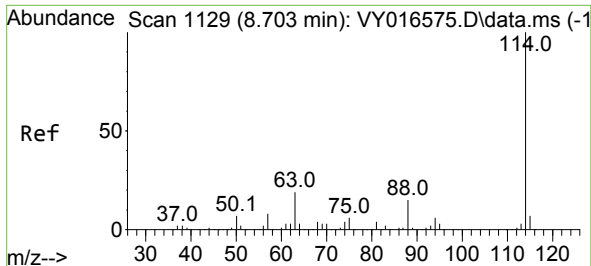
Tgt Ion: 56 Resp: 2395
Ion Ratio Lower Upper
56 100
69 200.9 27.8 41.6#
84 94.3 66.4 99.6



#33
1,2-Dichloroethane-d4
Concen: 65.803 ug/l
RT: 8.161 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY016595.D
Acq: 05 Dec 2023 14:46

Tgt Ion: 65 Resp: 86851
Ion Ratio Lower Upper
65 100
67 50.4 0.0 101.8

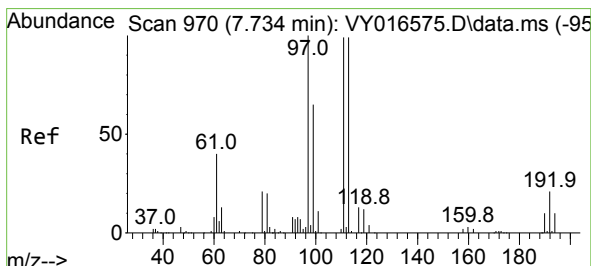
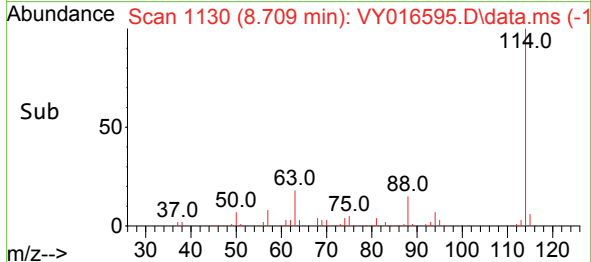
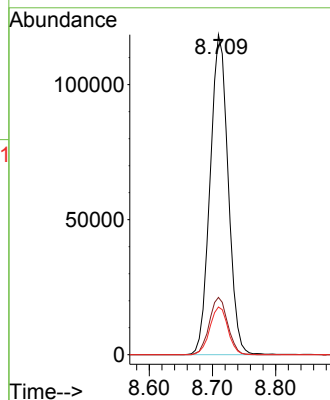
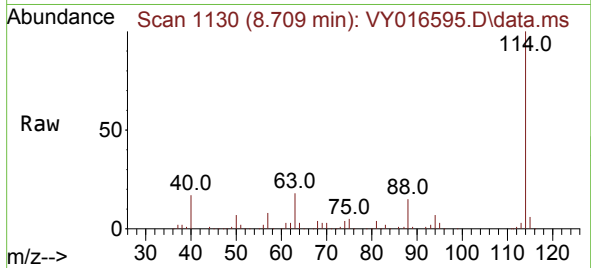




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.709 min Scan# 1129
Delta R.T. 0.006 min
Lab File: VY016595.D
Acq: 05 Dec 2023 14:46

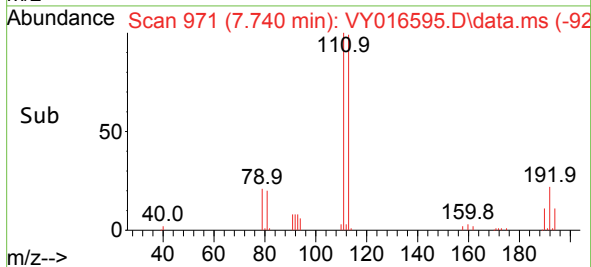
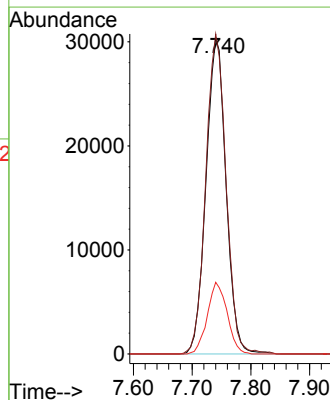
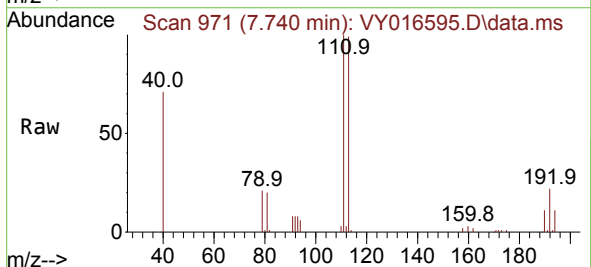
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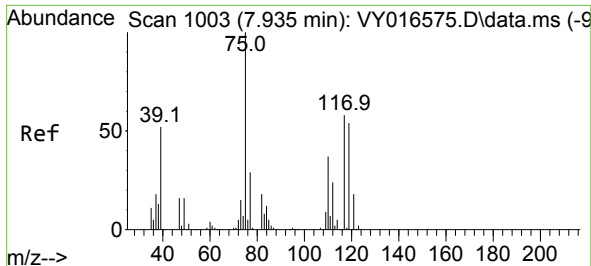
Tgt Ion:114 Resp: 234613
Ion Ratio Lower Upper
114 100
63 17.9 0.0 42.4
88 14.9 0.0 30.6



#35
Dibromofluoromethane
Concen: 50.881 ug/l
RT: 7.740 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY016595.D
Acq: 05 Dec 2023 14:46

Tgt Ion:113 Resp: 71839
Ion Ratio Lower Upper
113 100
111 102.4 81.3 121.9
192 22.5 16.9 25.3

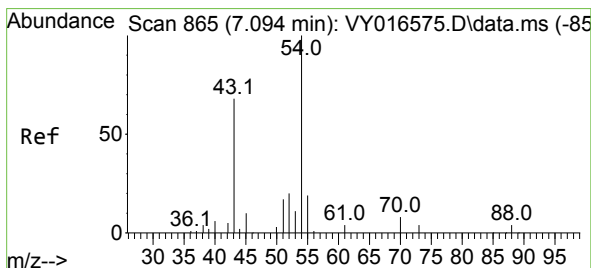
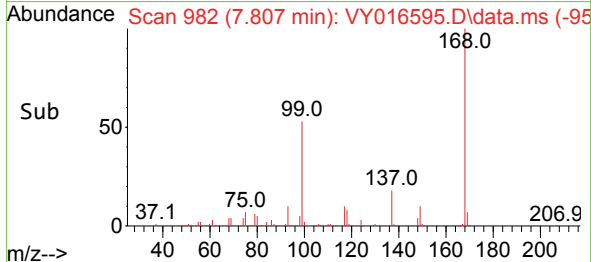
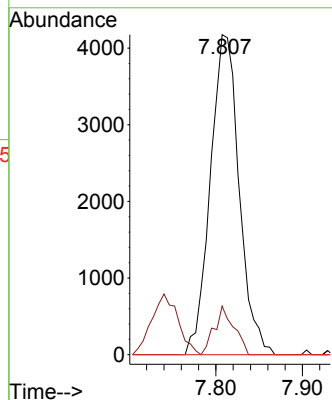
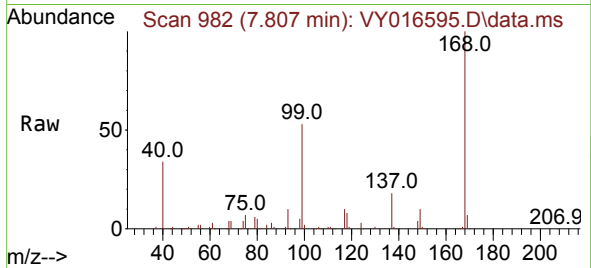




#36
1,1-Dichloropropene
Concen: 4.502 ug/l
RT: 7.807 min Scan# 912
Delta R.T. -0.128 min
Lab File: VY016595.D
Acq: 05 Dec 2023 14:46

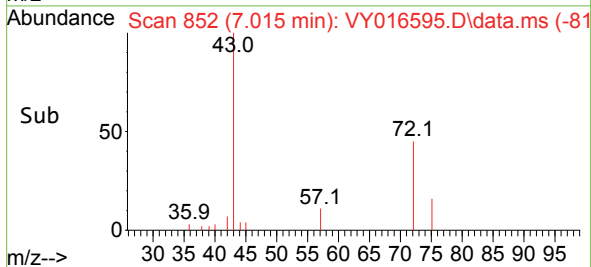
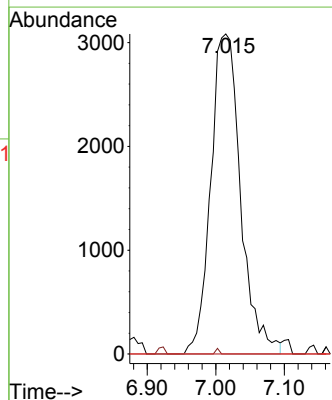
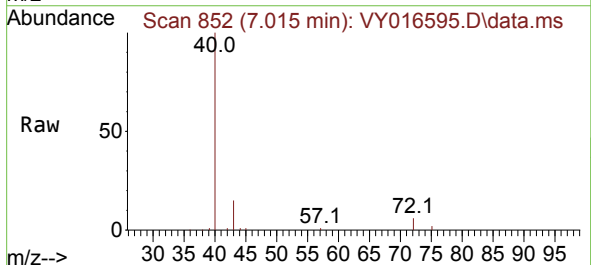
Instrument :
MSVOA_Y
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TOPSOIL-LKWD-DENALI-2

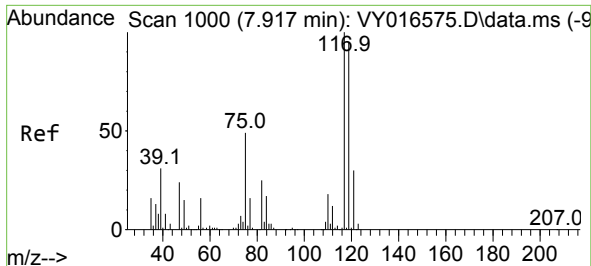
Tgt Ion: 75 Resp: 9663
Ion Ratio Lower Upper
75 100
110 10.3 17.8 53.5#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 10.397 ug/l
RT: 7.015 min Scan# 852
Delta R.T. -0.079 min
Lab File: VY016595.D
Acq: 05 Dec 2023 14:46

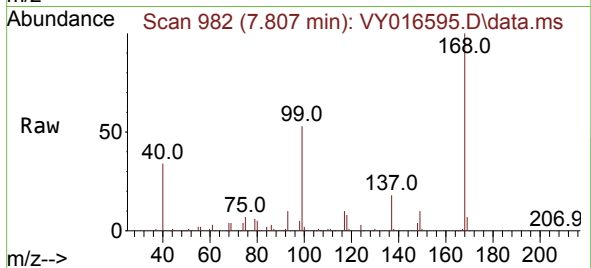
Tgt Ion: 43 Resp: 9337
Ion Ratio Lower Upper
43 100
61 0.2 10.1 15.1#
70 0.0 7.1 10.7#



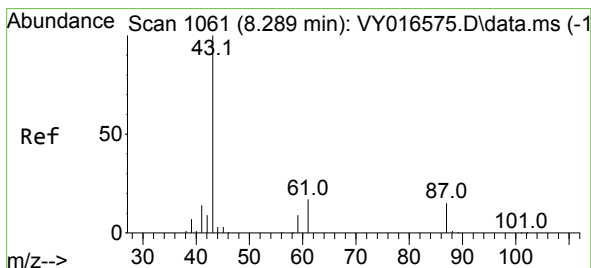
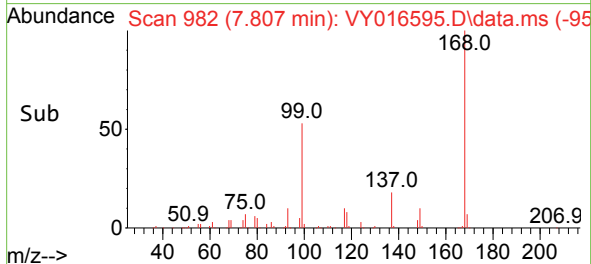
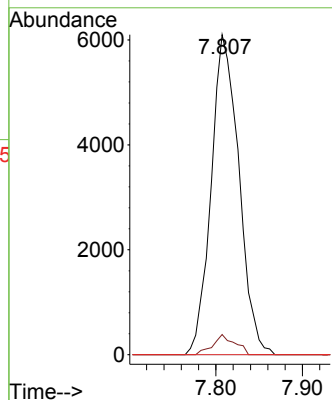


#38
Carbon Tetrachloride
Concen: 5.466 ug/l
RT: 7.807 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY016595.D
Acq: 05 Dec 2023 14:46

Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-2

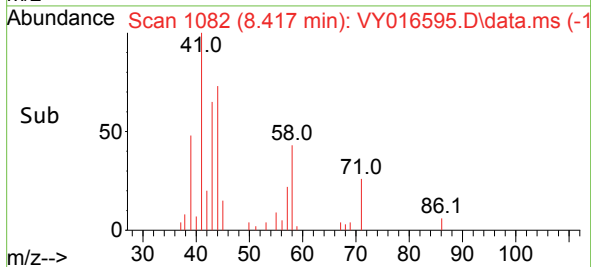
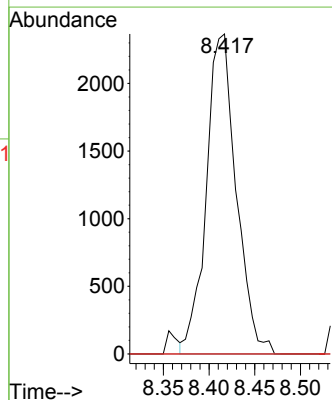
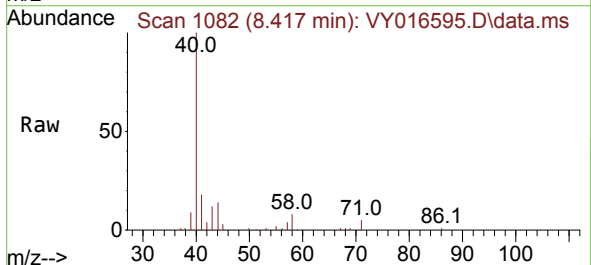


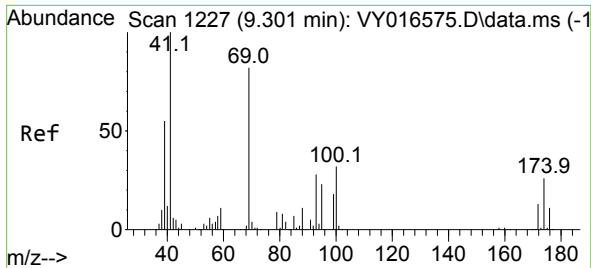
Tgt Ion:117 Resp: 13582
Ion Ratio Lower Upper
117 100
119 6.3 76.4 114.6#
121 0.0 25.8 38.6#



#43
Isopropyl Acetate
Concen: 3.110 ug/l
RT: 8.417 min Scan# 1082
Delta R.T. 0.128 min
Lab File: VY016595.D
Acq: 05 Dec 2023 14:46

Tgt Ion: 43 Resp: 5388
Ion Ratio Lower Upper
43 100
61 0.0 21.1 31.7#
87 0.0 9.8 14.8#

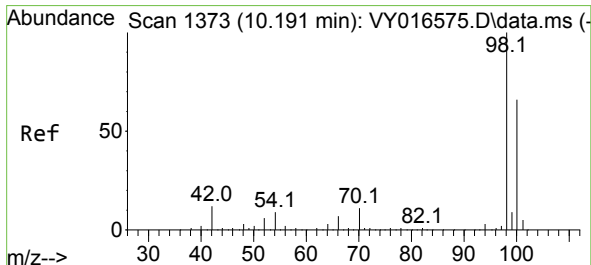
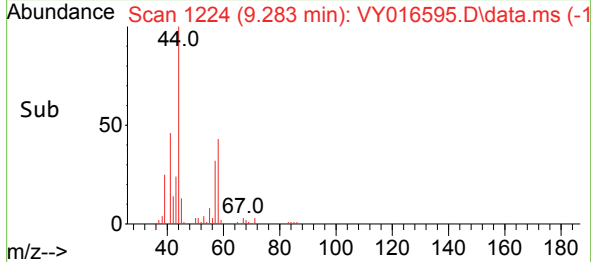
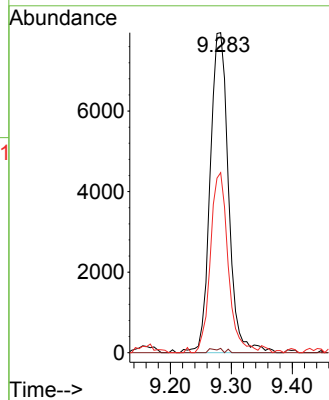
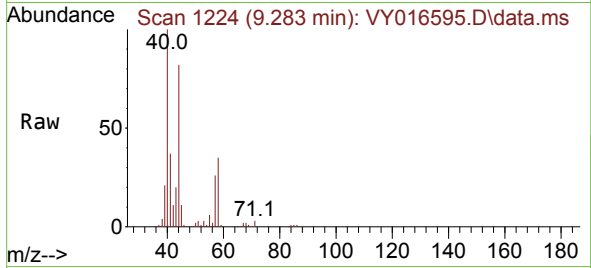




#48
Methyl methacrylate
Concen: 16.639 ug/l
RT: 9.283 min Scan# 11
Delta R.T. -0.018 min
Lab File: VY016595.D
Acq: 05 Dec 2023 14:46

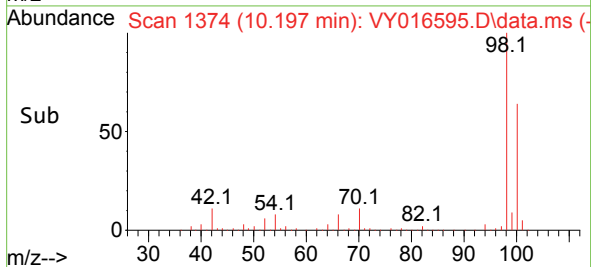
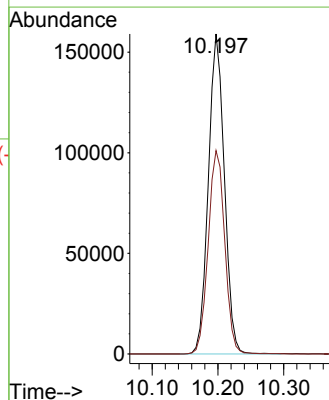
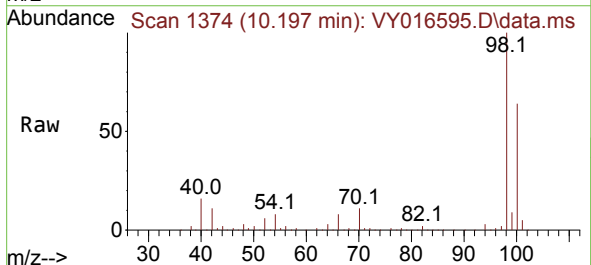
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-2

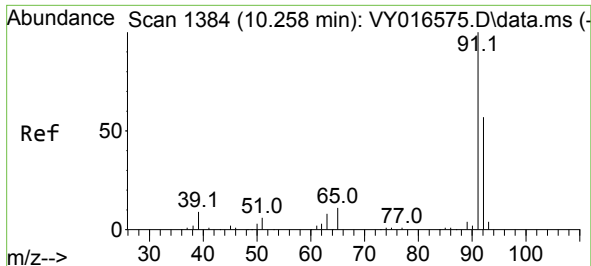
Tgt Ion: 41 Resp: 16648
Ion Ratio Lower Upper
41 100
69 1.0 64.5 96.7#
39 54.2 50.8 76.2



#50
Toluene-d8
Concen: 50.444 ug/l
RT: 10.197 min Scan# 1374
Delta R.T. 0.006 min
Lab File: VY016595.D
Acq: 05 Dec 2023 14:46

Tgt Ion: 98 Resp: 269401
Ion Ratio Lower Upper
98 100
100 65.7 50.1 75.1

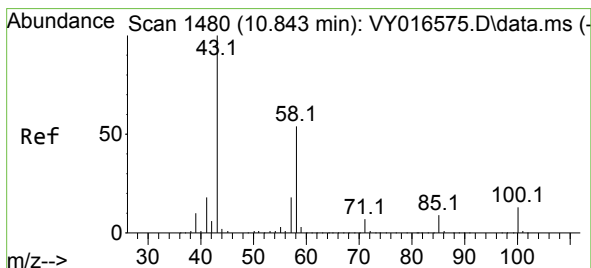
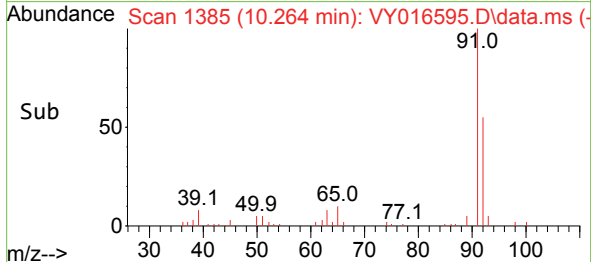
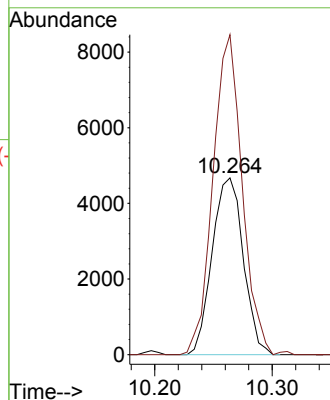
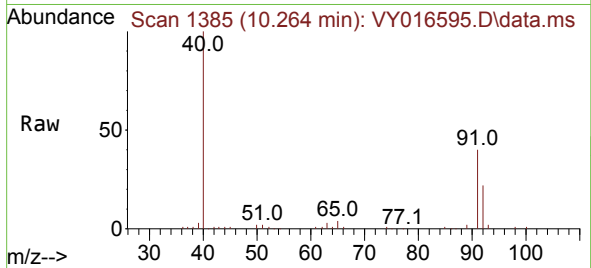




#52
Toluene
Concen: 2.270 ug/l
RT: 10.264 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VY016595.D
Acq: 05 Dec 2023 14:46

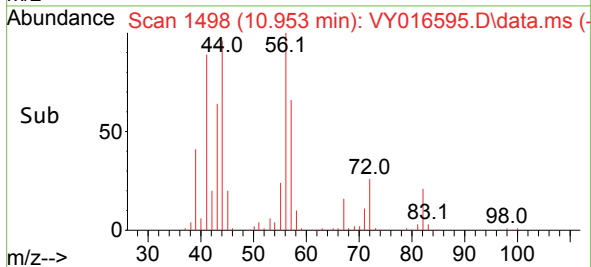
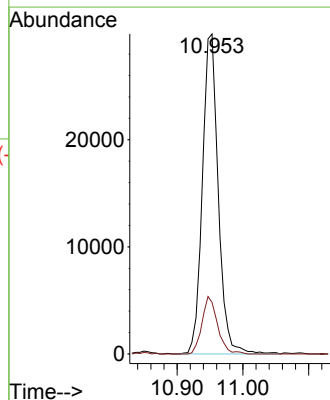
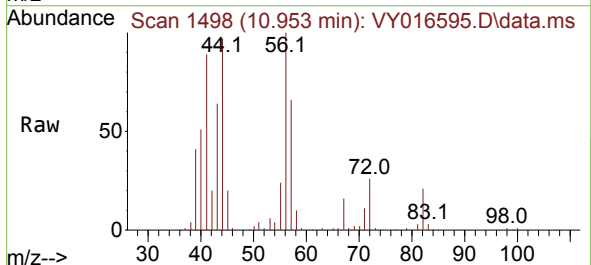
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-2

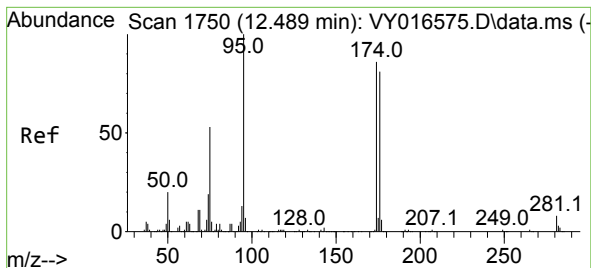
Tgt Ion: 92 Resp: 8606
Ion Ratio Lower Upper
92 100
91 170.4 143.8 215.6



#59
2-Hexanone
Concen: 73.620 ug/l
RT: 10.953 min Scan# 1498
Delta R.T. 0.110 min
Lab File: VY016595.D
Acq: 05 Dec 2023 14:46

Tgt Ion: 43 Resp: 50143
Ion Ratio Lower Upper
43 100
58 17.6 25.1 75.3#





#62

4-Bromofluorobenzene

Concen: 55.060 ug/l

RT: 12.495 min Scan# 1751

Delta R.T. 0.006 min

Lab File: VY016595.D

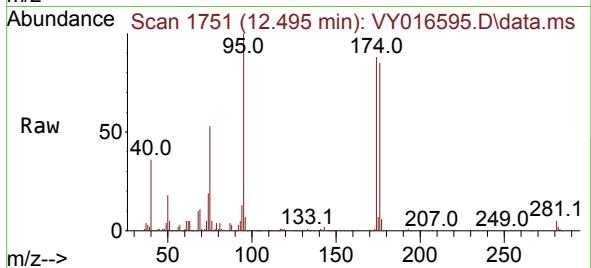
Acq: 05 Dec 2023 14:46

Instrument :

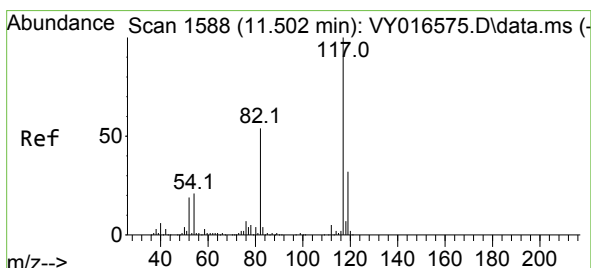
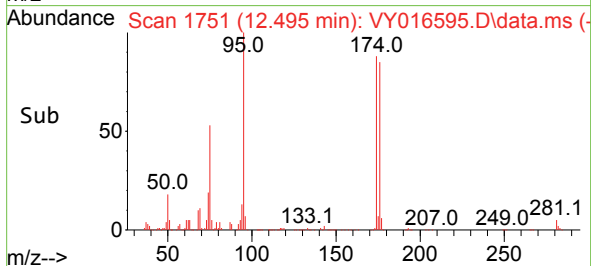
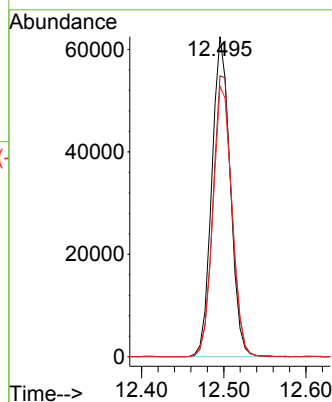
MSVOA_Y

ClientSampleId :

TOPSOIL-LKWD-DENALI-2



Tgt Ion:	95	Resp:	96700
Ion Ratio	Lower	Upper	
95	100		
174	90.3	0.0	178.2
176	87.7	0.0	173.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

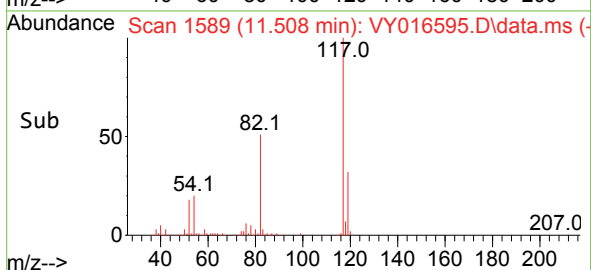
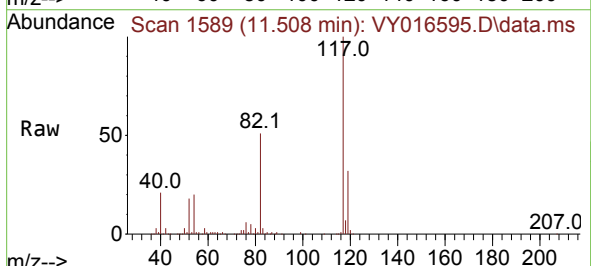
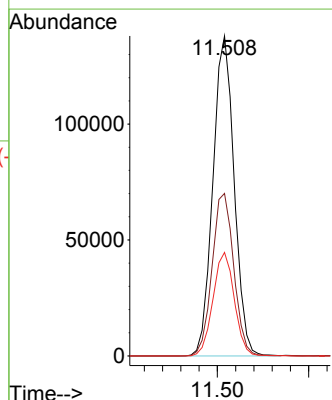
RT: 11.508 min Scan# 1589

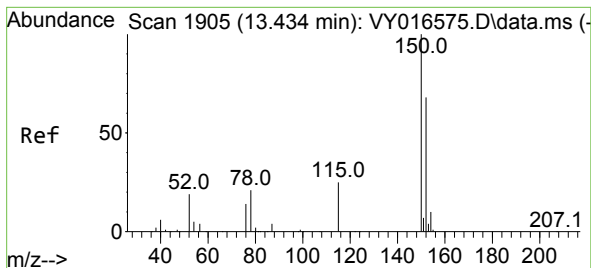
Delta R.T. 0.006 min

Lab File: VY016595.D

Acq: 05 Dec 2023 14:46

Tgt Ion:	117	Resp:	222674
Ion Ratio	Lower	Upper	
117	100		
82	50.8	43.4	65.0
119	32.4	26.3	39.5

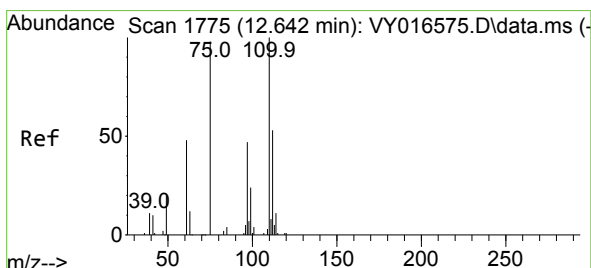
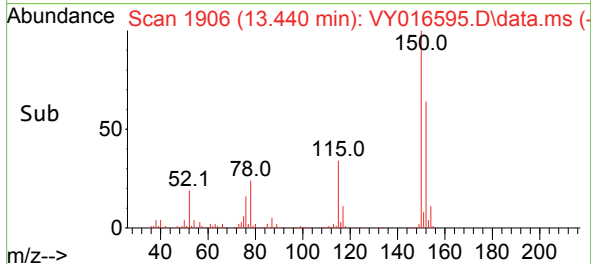
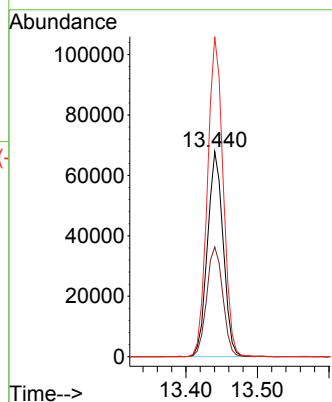
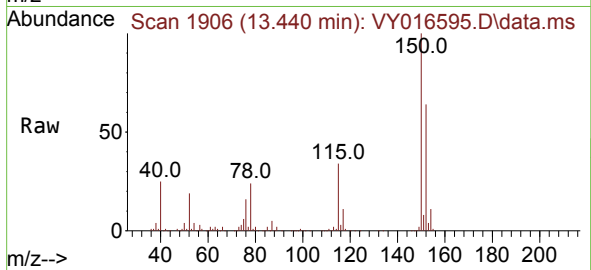




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.440 min Scan# 1905
 Delta R.T. 0.006 min
 Lab File: VY016595.D
 Acq: 05 Dec 2023 14:46

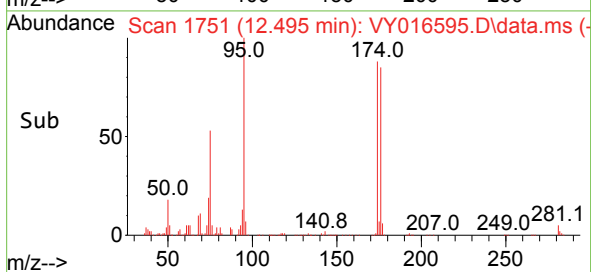
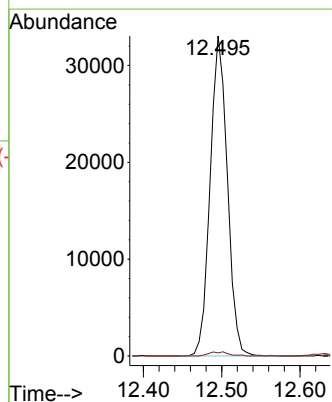
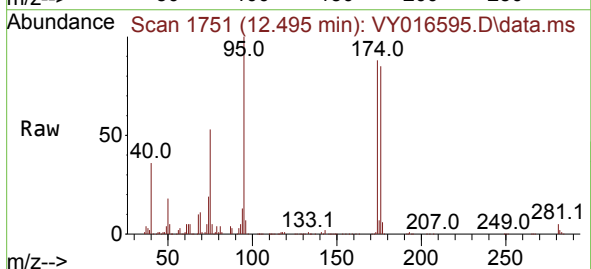
Instrument :
 MSVOA_Y
 ClientSampleId :
 TOPSOIL-LKWD-DENALI-2

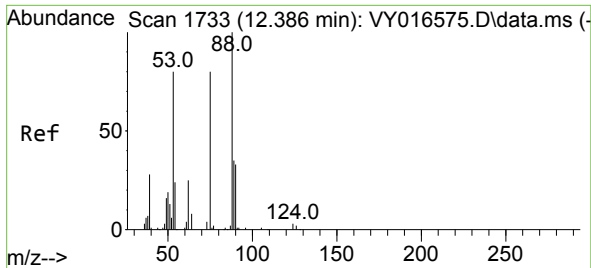
Tgt Ion:152 Resp: 103609
 Ion Ratio Lower Upper
 152 100
 115 54.9 28.8 86.5
 150 156.0 0.0 348.8



#76
 1,2,3-Trichloropropane
 Concen: 53.798 ug/l
 RT: 12.495 min Scan# 1751
 Delta R.T. -0.146 min
 Lab File: VY016595.D
 Acq: 05 Dec 2023 14:46

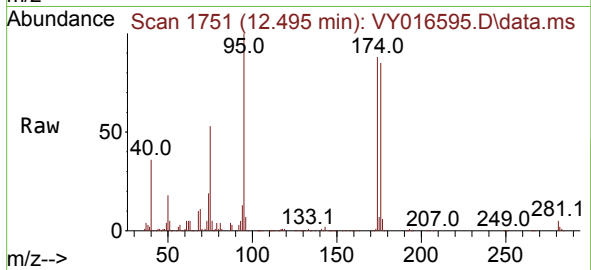
Tgt Ion: 75 Resp: 50351
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 121.358 ug/l
 RT: 12.495 min Scan# 11
 Delta R.T. 0.110 min
 Lab File: VY016595.D
 Acq: 05 Dec 2023 14:46

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOPSOIL-LKWD-DENALI-2



Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	77.8	116.8#
89	0.0	37.4	56.0#

