

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082721\
 Data File : VN068341.D
 Acq On : 27 Aug 2021 13:50
 Operator : JC/MD
 Sample : M3535-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WVLY-SOIL-82421

Quant Time: Aug 28 01:27:03 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081721W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 17 13:09:49 2021
 Response via : Initial Calibration

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

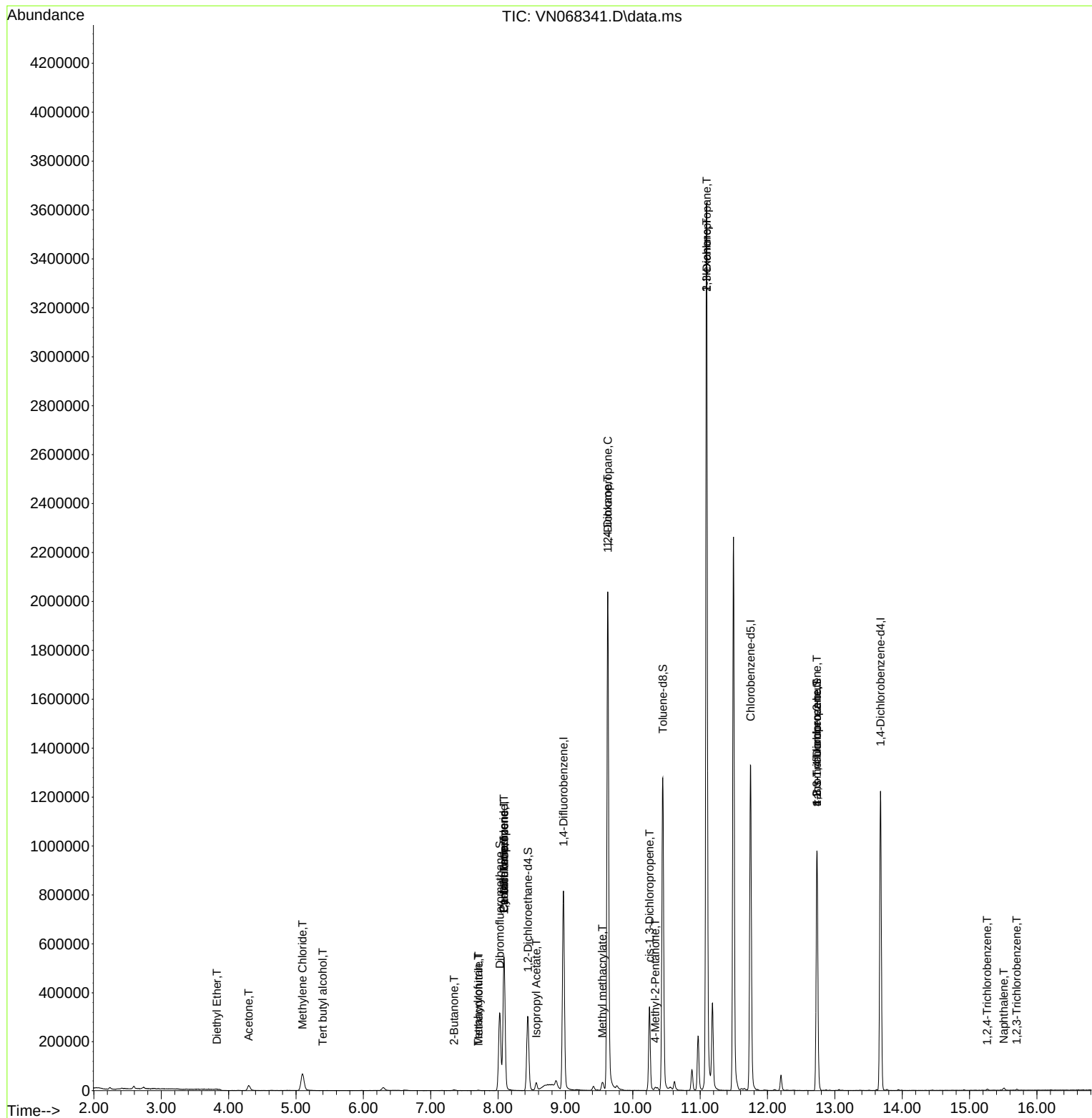
Internal Standards						
1) Pentafluorobenzene	8.088	168	453104	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.971	114	781401	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.749	117	866432	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	371850	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.442	65	258854	53.505	ug/l	0.00
Spiked Amount 50.000	Range 61	- 141	Recovery	=	107.020%	
35) Dibromofluoromethane	8.027	113	238962	48.710	ug/l	0.00
Spiked Amount 50.000	Range 69	- 133	Recovery	=	97.420%	
50) Toluene-d8	10.446	98	959166	51.312	ug/l	0.00
Spiked Amount 50.000	Range 65	- 126	Recovery	=	102.620%	
62) 4-Bromofluorobenzene	12.733	95	343059	55.129	ug/l	0.00
Spiked Amount 50.000	Range 58	- 135	Recovery	=	110.260%	
Target Compounds						
						Qvalue
5) Bromomethane	2.866	94	323	Below Cal		91
6) Chloroethane	3.009	64	58	Below Cal	#	44
8) Diethyl Ether	3.824	74	693	0.239	ug/l #	33
11) Tert butyl alcohol	5.396	59	315	0.522	ug/l #	71
13) Acrolein	4.044	56	130	Below Cal	#	65
16) Acetone	4.296	43	39367	27.870	ug/l #	84
18) Methyl Acetate	4.873	43	1458	Below Cal	#	54
20) Methylene Chloride	5.095	84	60746	14.014	ug/l #	78
25) 2-Butanone	7.348	43	2002	0.909	ug/l	95
29) Tetrahydrofuran	7.705	42	1129	0.802	ug/l #	72
31) Cyclohexane	8.088	56	8028	1.260	ug/l #	17
36) 1,1-Dichloropropene	8.091	75	29977	4.693	ug/l #	52
38) Carbon Tetrachloride	8.088	117	41567	5.642	ug/l #	18
41) Methacrylonitrile	7.710	41	668	0.269	ug/l #	41
43) Isopropyl Acetate	8.568	43	35538	4.077	ug/l #	92
45) 1,2-Dichloropropane	9.630	63	3077	0.671	ug/l #	44
48) Methyl methacrylate	9.547	41	8361	2.302	ug/l #	12
49) 1,4-Dioxane	9.628	88	217	2.471	ug/l #	1
51) 4-Methyl-2-Pentanone	10.336	43	7555	1.411	ug/l #	88
54) cis-1,3-Dichloropropene	10.247	75	66208	8.950	ug/l #	56
57) 1,3-Dichloropropane	11.097	76	42896	5.244	ug/l #	43
59) 2-Hexanone	11.095	43	515268	138.587	ug/l #	57
76) 1,2,3-Trichloropropane	12.733	75	169390	27.407	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.733	75	169390	89.790	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.262	180	2004	2.991	ug/l	80
95) Naphthalene	15.507	128	9836	3.973	ug/l #	97
96) 1,2,3-Trichlorobenzene	15.700	180	1777	3.116	ug/l	82

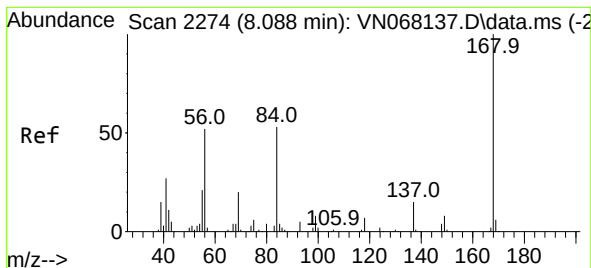
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. 0.000 min

Lab File: VN068341.D

Acq: 27 Aug 2021 13:50

Tgt Ion:168 Resp: 453104

Ion Ratio Lower Upper

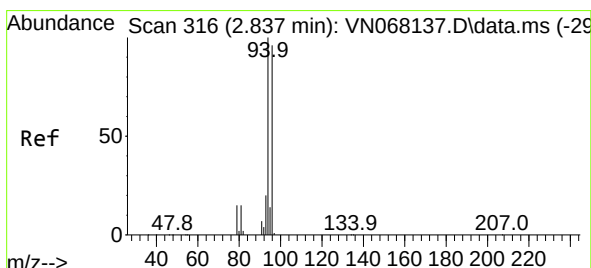
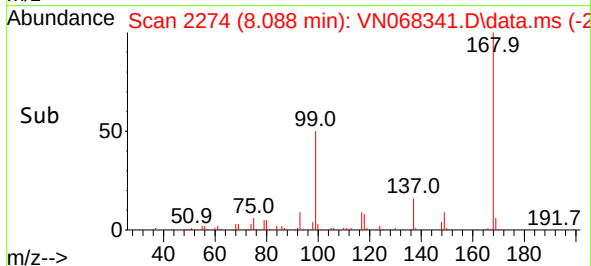
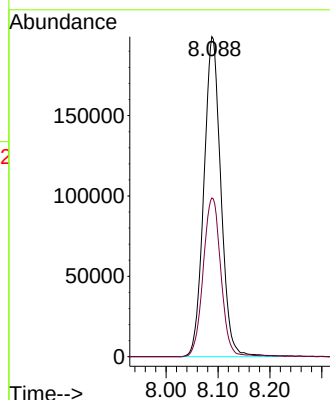
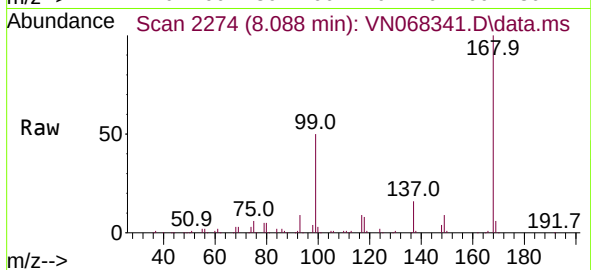
168 100
99 49.6 62.9 94.3#

Instrument :

MSVOA_N

ClientSampleId :

WVLY-SOIL-82421



#5

Bromomethane

Concen: Below Cal

RT: 2.866 min Scan# 327

Delta R.T. 0.029 min

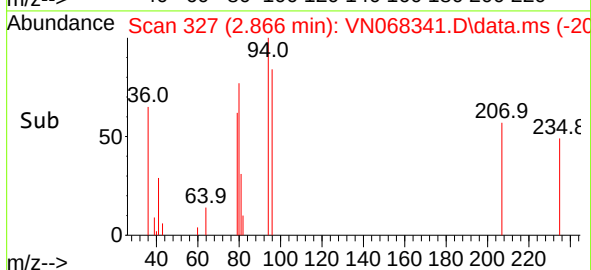
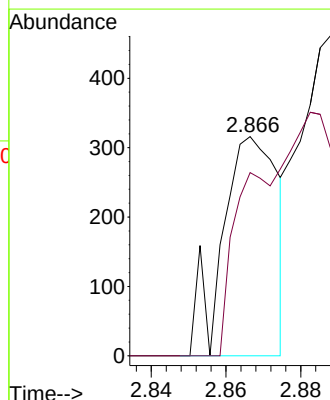
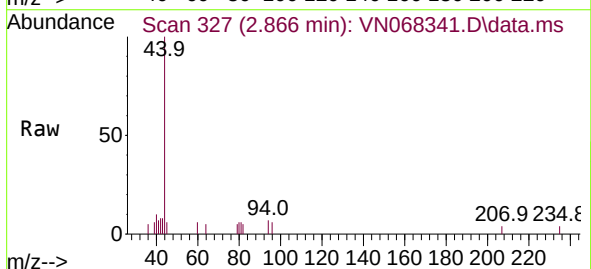
Lab File: VN068341.D

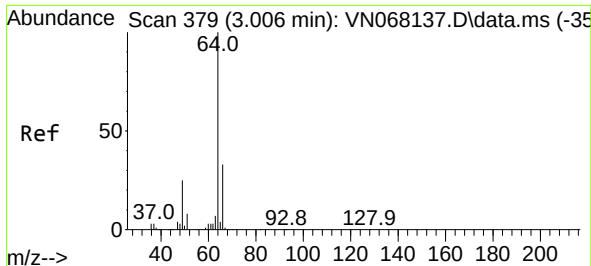
Acq: 27 Aug 2021 13:50

Tgt Ion: 94 Resp: 323

Ion Ratio Lower Upper

94 100
96 83.5 73.7 110.5

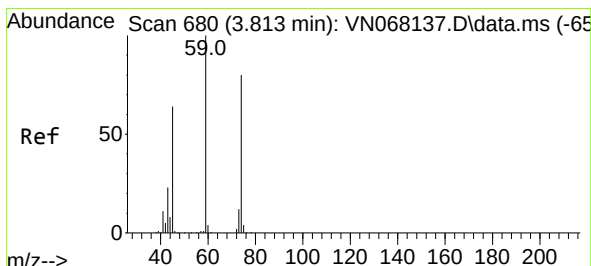
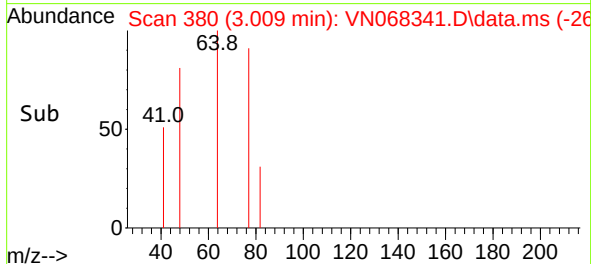
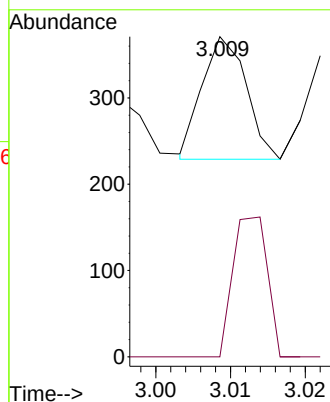
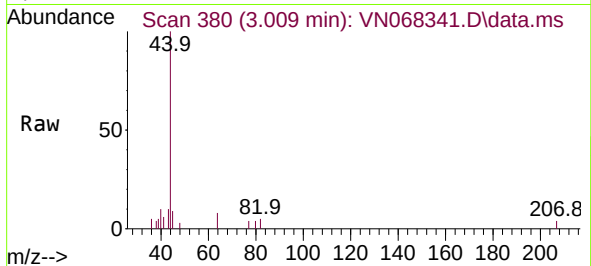




#6
Chloroethane
Concen: Below Cal
RT: 3.009 min Scan# 380
Delta R.T. 0.003 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

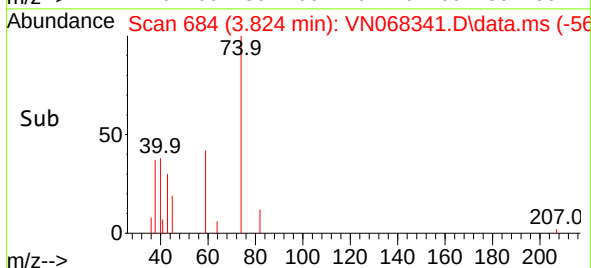
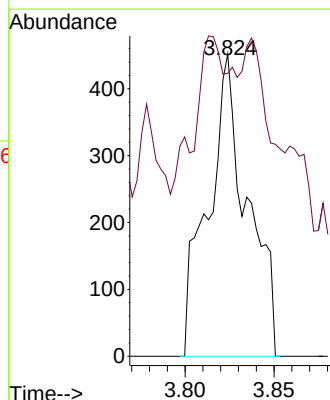
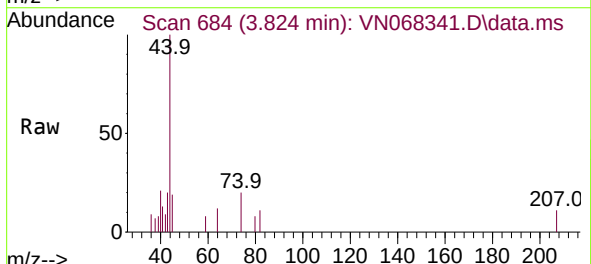
Instrument :
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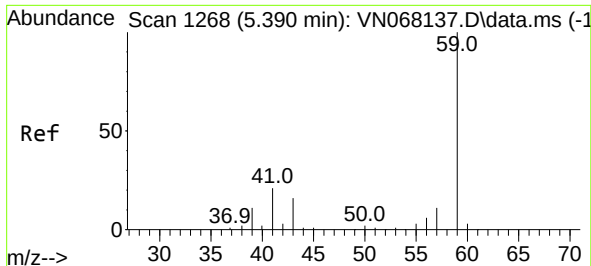
Tgt Ion: 64 Resp: 58
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



#8
Diethyl Ether
Concen: 0.239 ug/l
RT: 3.824 min Scan# 684
Delta R.T. 0.011 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

Tgt Ion: 74 Resp: 693
Ion Ratio Lower Upper
74 100
45 32.9 50.2 150.7#

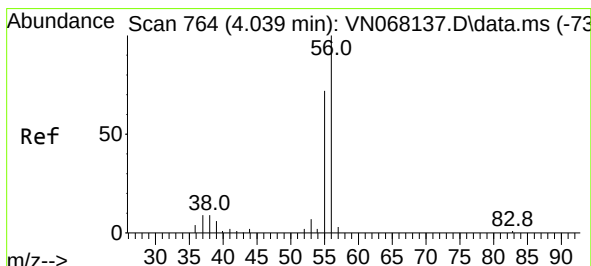
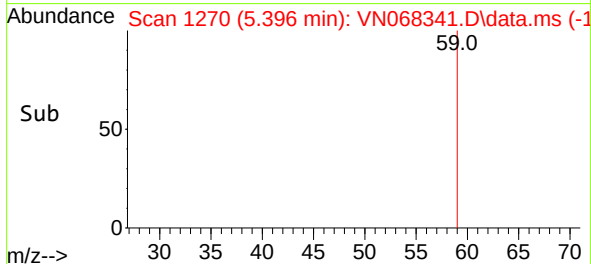
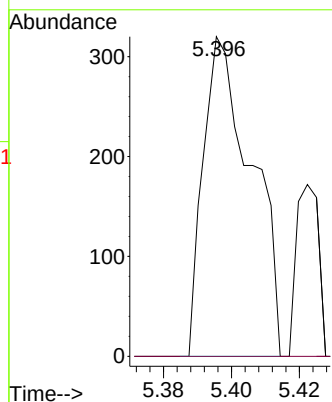
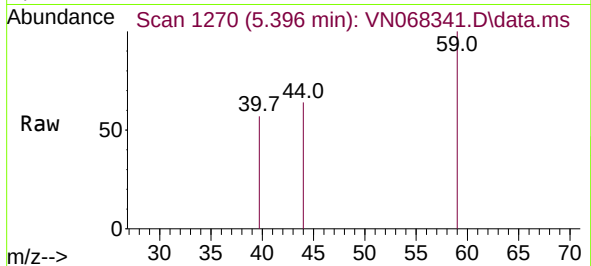




#11
Tert butyl alcohol
Concen: 0.522 ug/l
RT: 5.396 min Scan# 1270
Delta R.T. 0.006 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

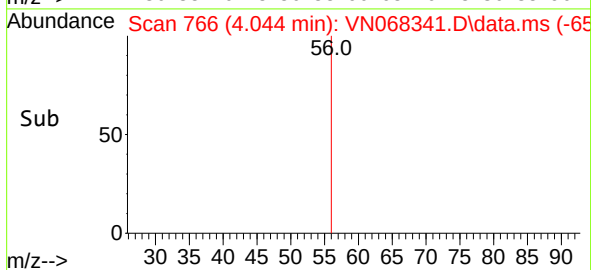
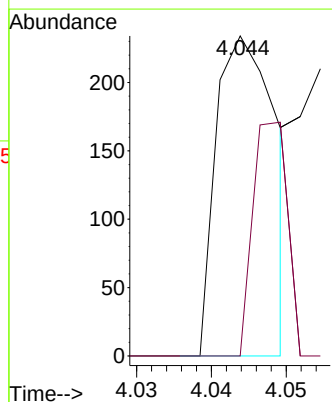
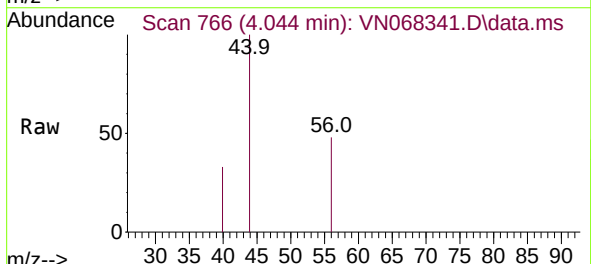
Instrument :
MSVOA_N
ClientSampleId :
WVLY-SOIL-82421

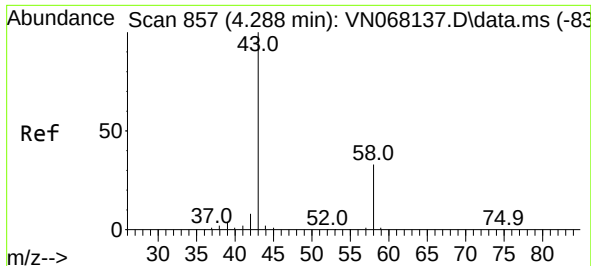
Tgt Ion: 59 Resp: 315
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#13
Acrolein
Concen: Below Cal
RT: 4.044 min Scan# 766
Delta R.T. 0.005 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

Tgt Ion: 56 Resp: 130
Ion Ratio Lower Upper
56 100
55 42.3 57.4 86.0#

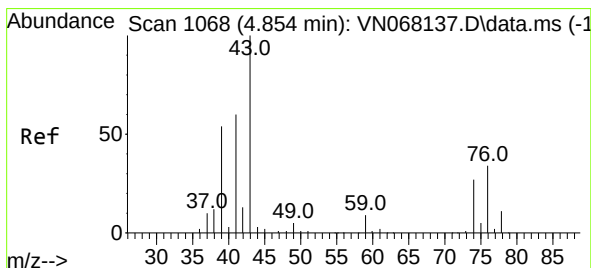
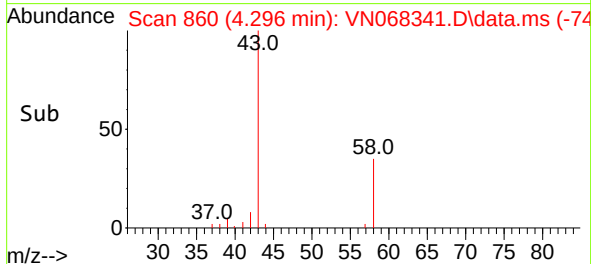
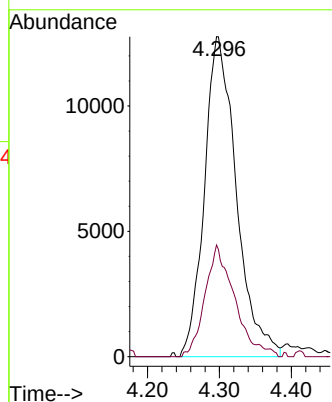
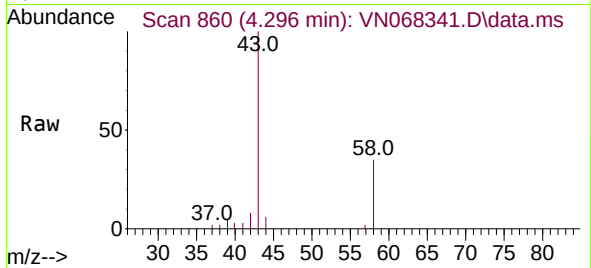




#16
Acetone
Concen: 27.870 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.008 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

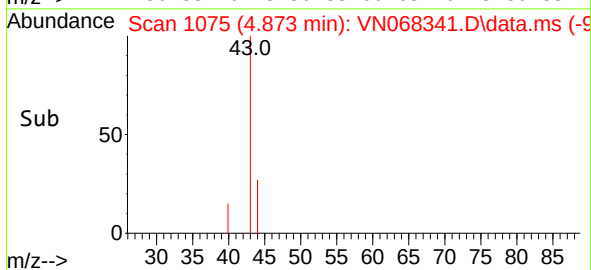
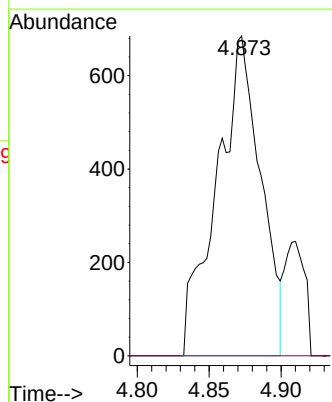
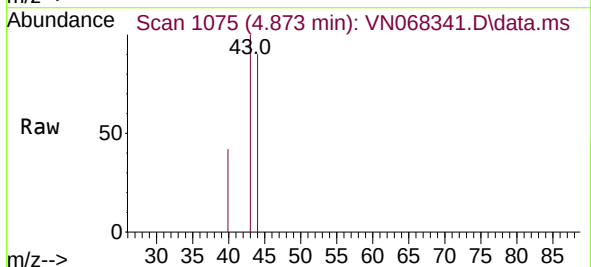
Instrument :
MSVOA_N
ClientSampleId :
WVLY-SOIL-82421

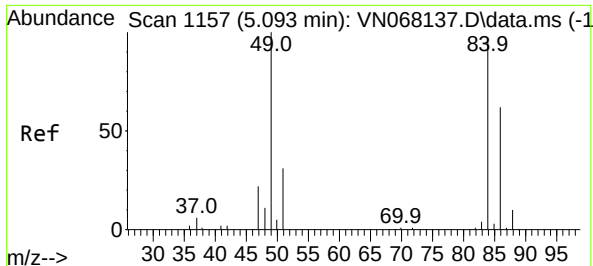
Tgt Ion: 43 Resp: 39367
Ion Ratio Lower Upper
43 100
58 34.9 21.2 31.8#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.873 min Scan# 1075
Delta R.T. 0.019 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

Tgt Ion: 43 Resp: 1458
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.0#

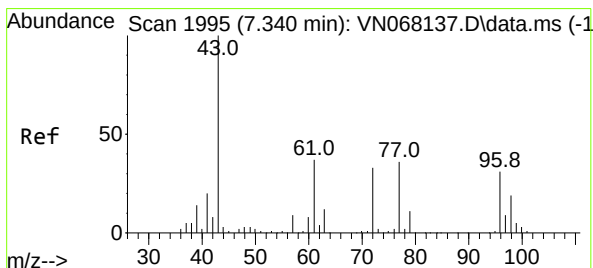
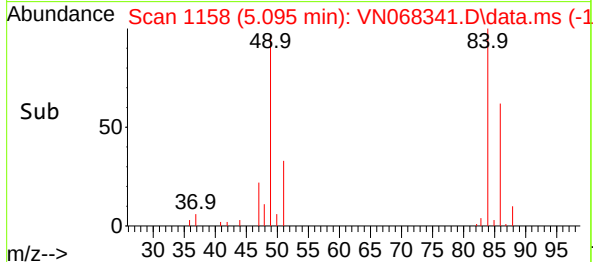
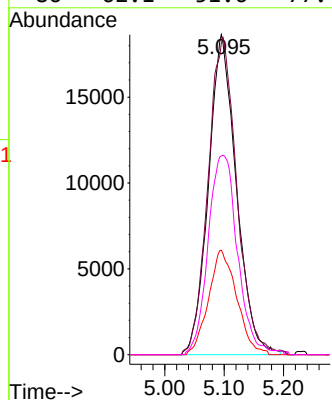
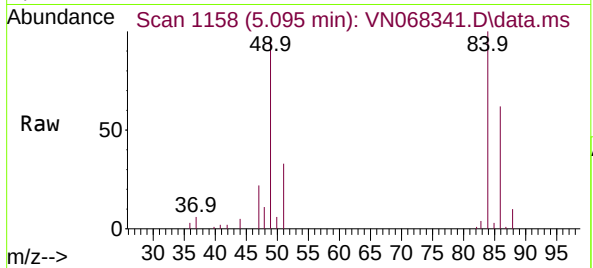




#20
Methylene Chloride
Concen: 14.014 ug/l
RT: 5.095 min Scan# 1158
Delta R.T. 0.002 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

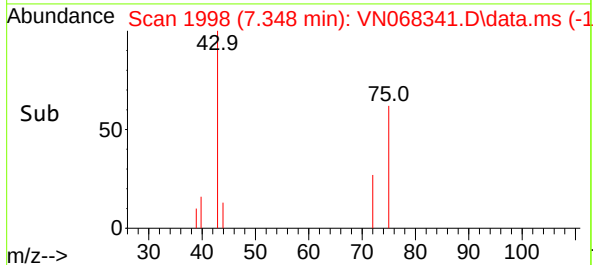
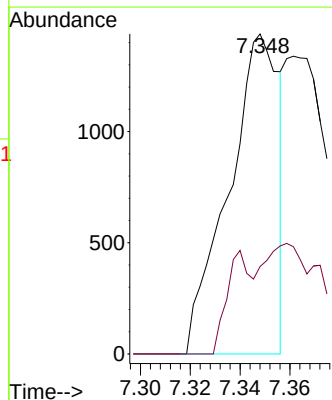
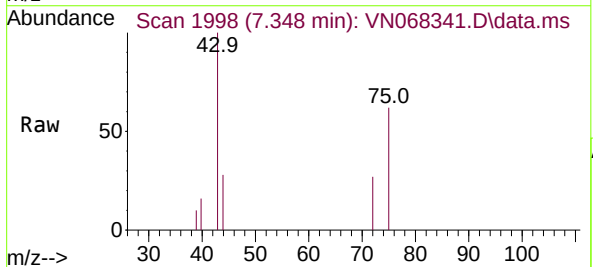
Instrument :
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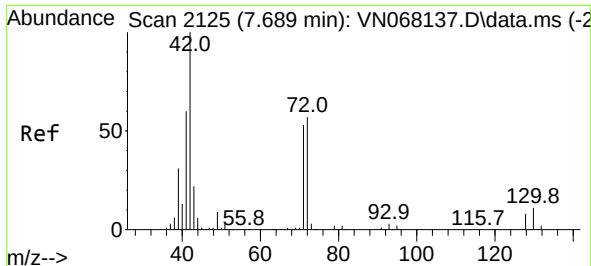
Tgt Ion:	84	Resp:	60746
Ion	Ratio	Lower	Upper
84	100		
49	97.3	110.9	166.3#
51	32.6	32.6	49.0#
86	62.1	51.6	77.4



#25
2-Butanone
Concen: 0.909 ug/l
RT: 7.348 min Scan# 1998
Delta R.T. 0.008 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

Tgt Ion:	43	Resp:	2002
Ion	Ratio	Lower	Upper
43	100		
72	27.3	19.7	29.5





#29

Tetrahydrofuran

Concen: 0.802 ug/l

RT: 7.705 min Scan# 2131

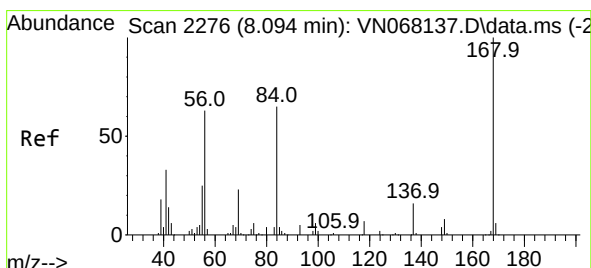
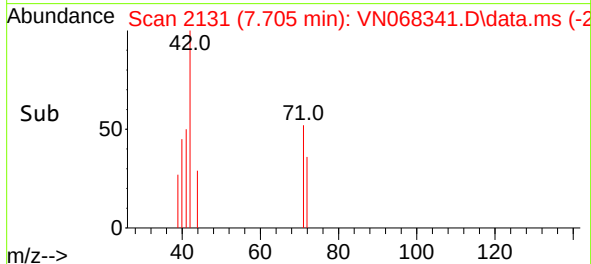
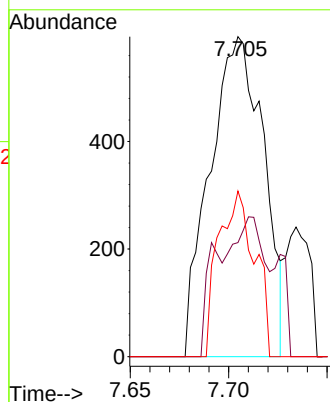
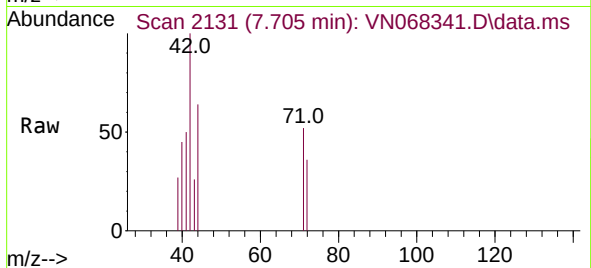
Delta R.T. 0.016 min

Lab File: VN068341.D

Acq: 27 Aug 2021 13:50

Tgt Ion:	42	Resp:	1129
Ion	Ratio	Lower	Upper
42	100		
72	10.5	32.8	49.2#
71	34.8	31.2	46.8

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#31

Cyclohexane

Concen: 1.260 ug/l

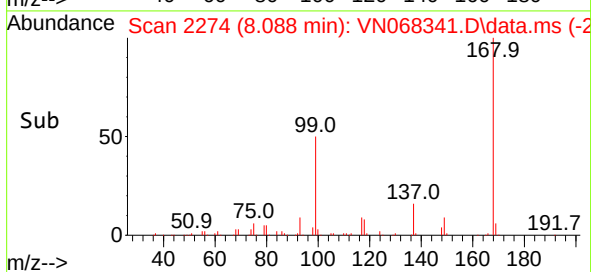
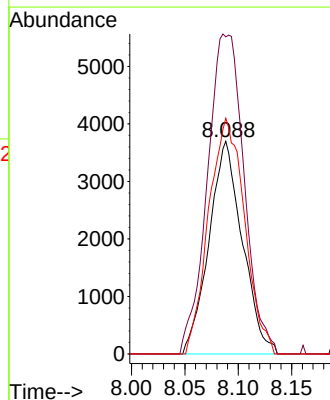
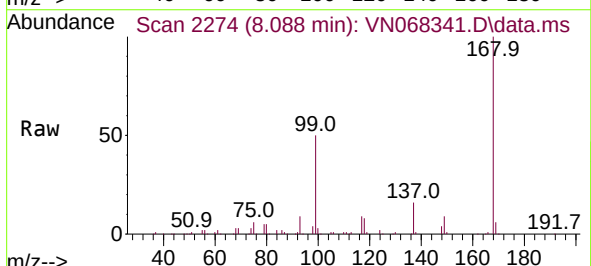
RT: 8.088 min Scan# 2274

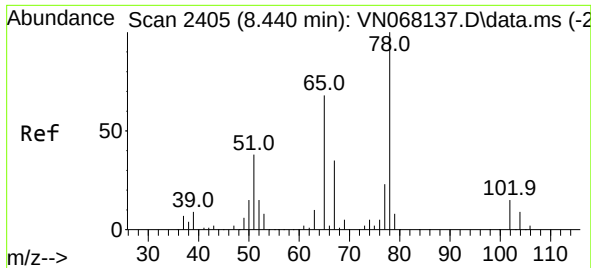
Delta R.T. -0.006 min

Lab File: VN068341.D

Acq: 27 Aug 2021 13:50

Tgt Ion:	56	Resp:	8028
Ion	Ratio	Lower	Upper
56	100		
69	149.2	27.3	40.9#
84	110.9	64.9	97.3#

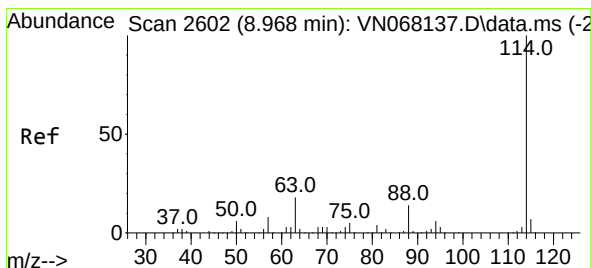
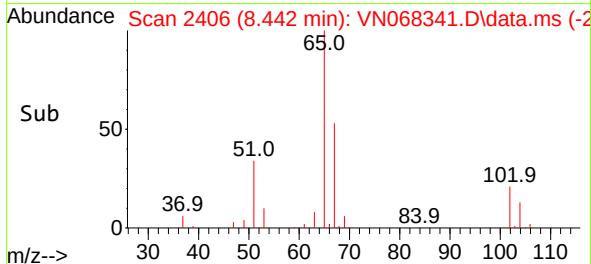
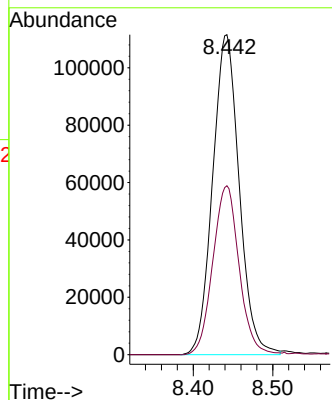
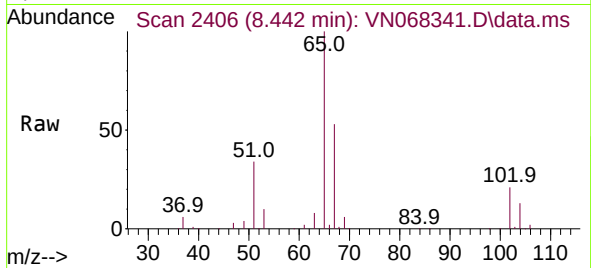




#33
 1,2-Dichloroethane-d4
 Concen: 53.505 ug/l
 RT: 8.442 min Scan# 2406
 Delta R.T. 0.002 min
 Lab File: VN068341.D
 Acq: 27 Aug 2021 13:50

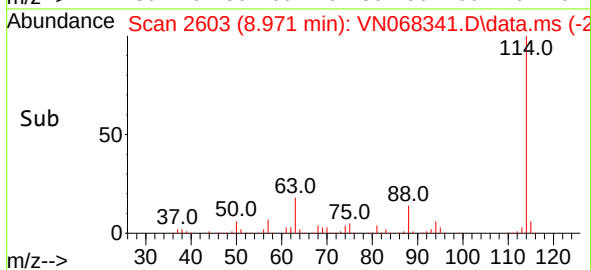
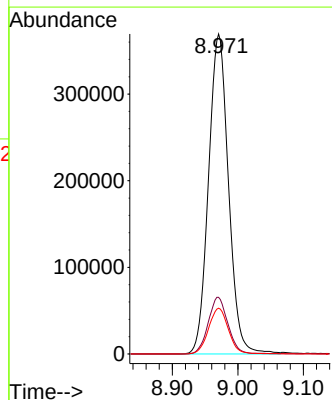
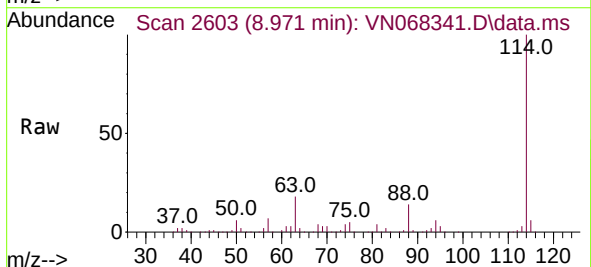
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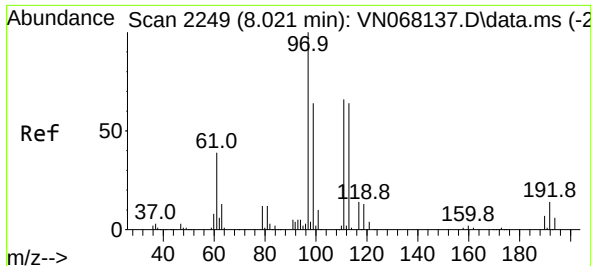
Tgt Ion: 65 Resp: 258854
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 98.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.971 min Scan# 2603
 Delta R.T. 0.003 min
 Lab File: VN068341.D
 Acq: 27 Aug 2021 13:50

Tgt Ion: 114 Resp: 781401
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 49.0
 88 14.3 0.0 36.6

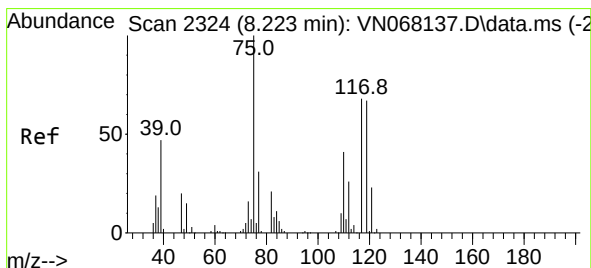
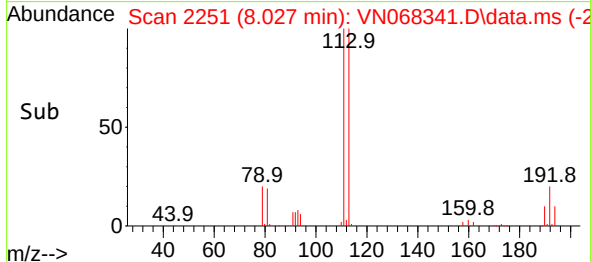
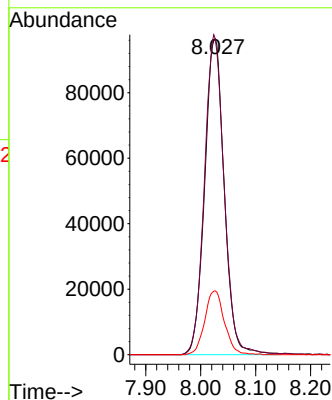
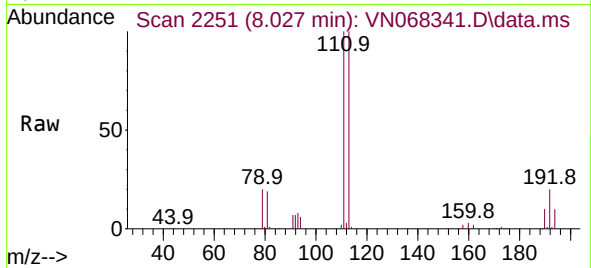




#35
Dibromofluoromethane
Concen: 48.710 ug/l
RT: 8.027 min Scan# 2251
Delta R.T. 0.006 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

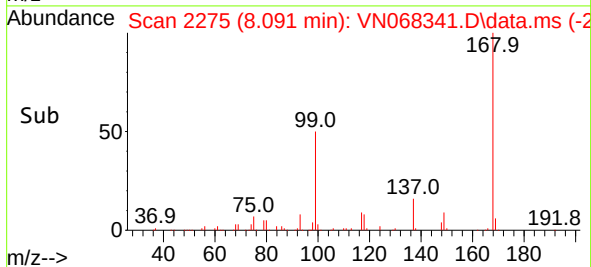
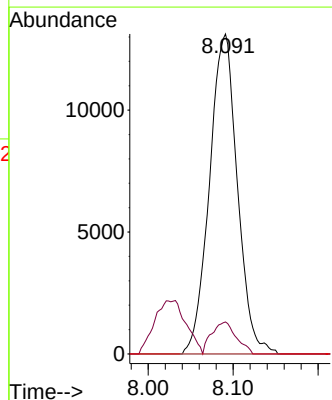
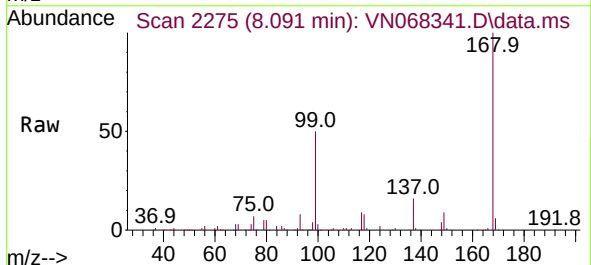
Instrument :
MSVOA_N
ClientSampleId :
WVLY-SOIL-82421

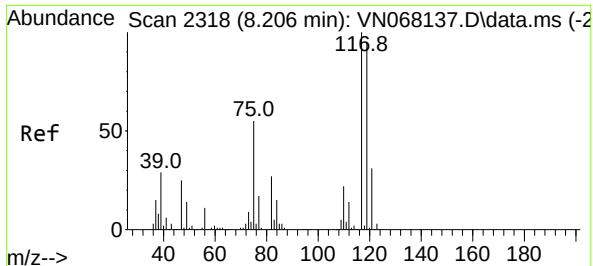
Tgt Ion:113 Resp: 238962
Ion Ratio Lower Upper
113 100
111 101.2 83.8 125.8
192 20.2 13.4 20.0#



#36
1,1-Dichloropropene
Concen: 4.693 ug/l
RT: 8.091 min Scan# 2275
Delta R.T. -0.132 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

Tgt Ion: 75 Resp: 29977
Ion Ratio Lower Upper
75 100
110 8.8 15.7 47.0#
77 0.0 24.6 37.0#

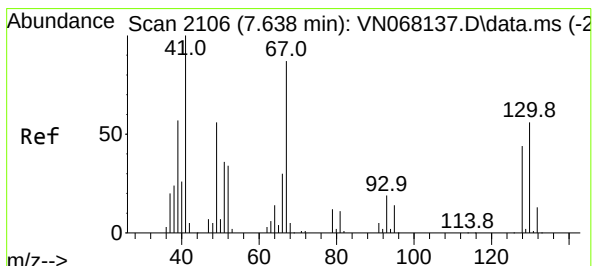
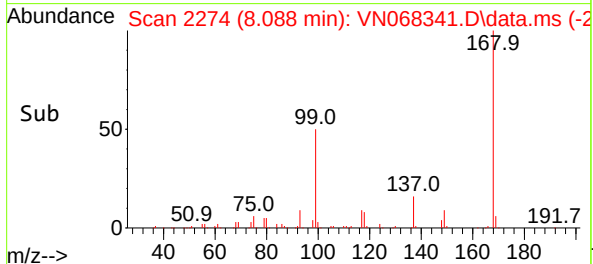
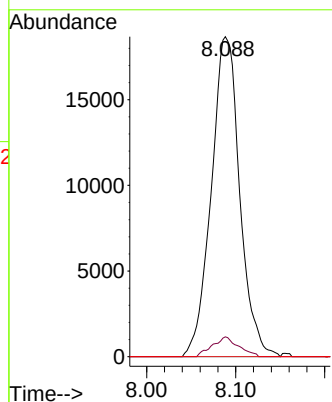
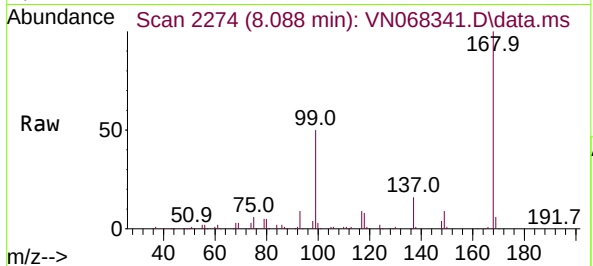




#38
Carbon Tetrachloride
Concen: 5.642 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.118 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

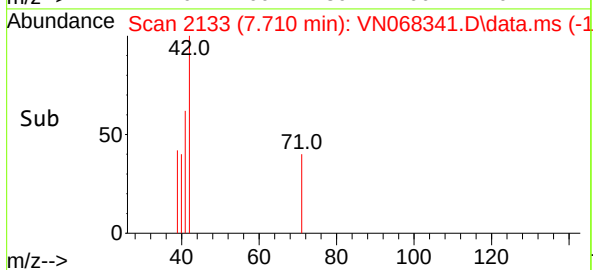
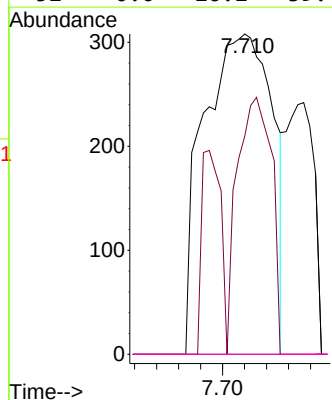
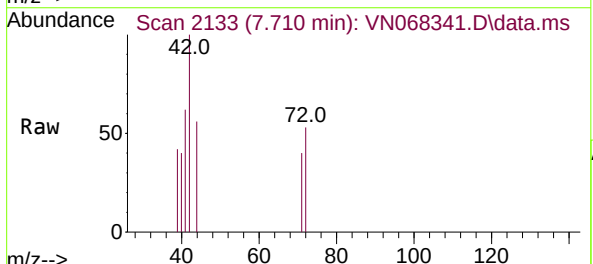
Instrument :
MSVOA_N
ClientSampleId :
WVLY-SOIL-82421

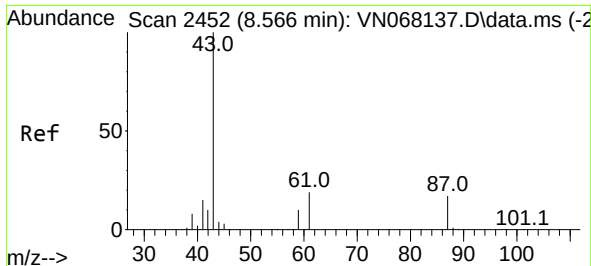
Tgt Ion:117 Resp: 41567
Ion Ratio Lower Upper
117 100
119 6.2 75.4 113.2#
121 0.0 23.5 35.3#



#41
Methacrylonitrile
Concen: 0.269 ug/l
RT: 7.710 min Scan# 2133
Delta R.T. 0.072 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

Tgt Ion: 41 Resp: 668
Ion Ratio Lower Upper
41 100
39 40.0 47.6 71.4#
67 0.0 57.7 86.5#
52 0.0 26.2 39.4#

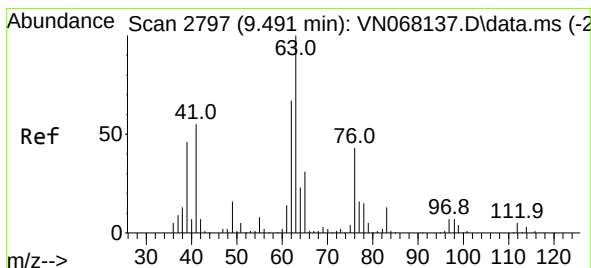
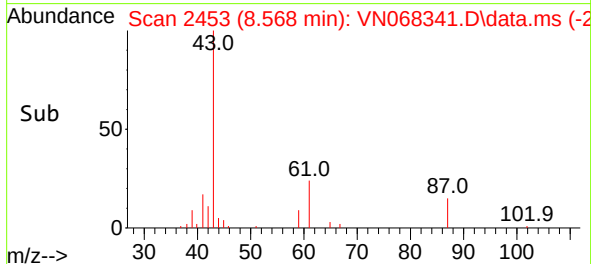
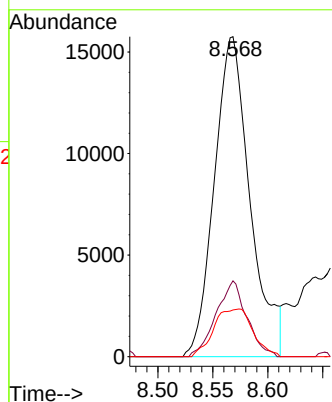
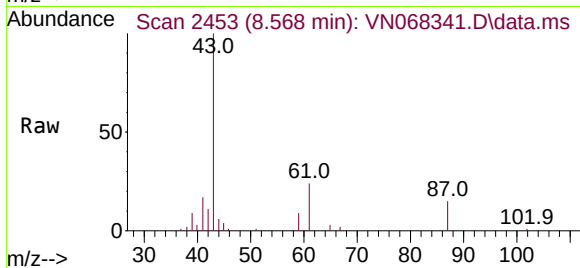




#43
Isopropyl Acetate
Concen: 4.077 ug/l
RT: 8.568 min Scan# 2453
Delta R.T. 0.002 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

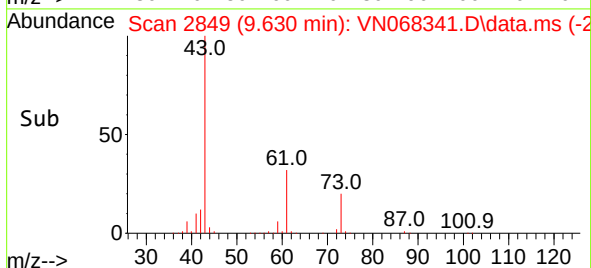
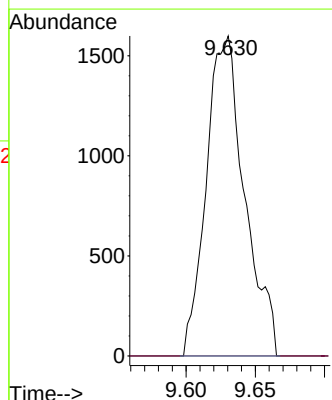
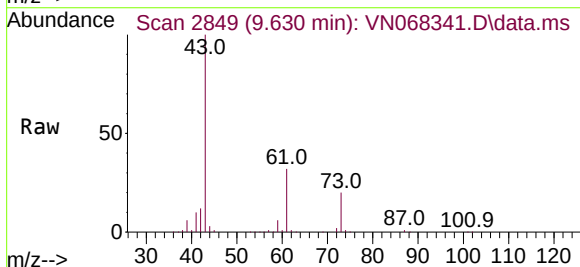
Instrument :
MSVOA_N
ClientSampleId :
WVLY-SOIL-82421

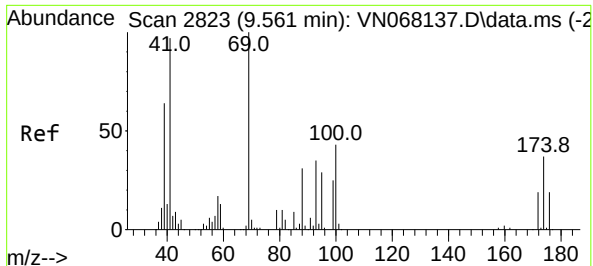
Tgt Ion	Ratio	Lower	Upper
43	100		
61	20.5	19.0	28.4
87	16.3	9.5	14.3



#45
1,2-Dichloropropane
Concen: 0.671 ug/l
RT: 9.630 min Scan# 2849
Delta R.T. 0.139 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	24.3	36.5

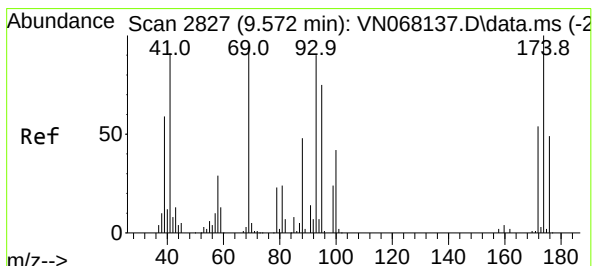
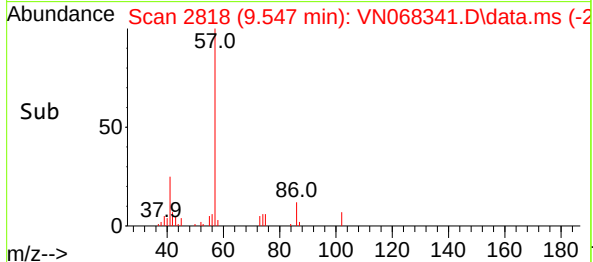
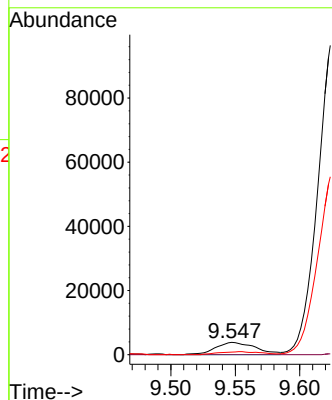
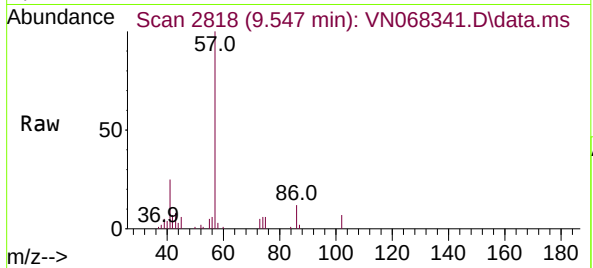




#48
Methyl methacrylate
Concen: 2.302 ug/l
RT: 9.547 min Scan# 2818
Delta R.T. -0.014 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

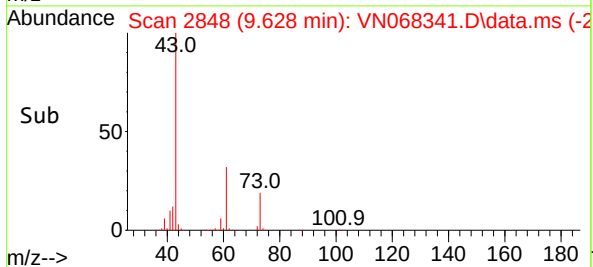
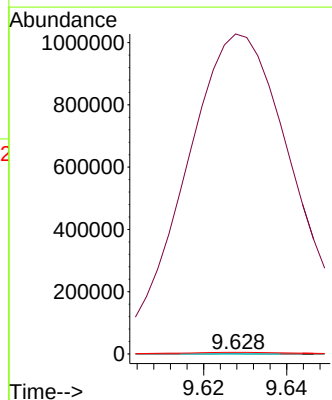
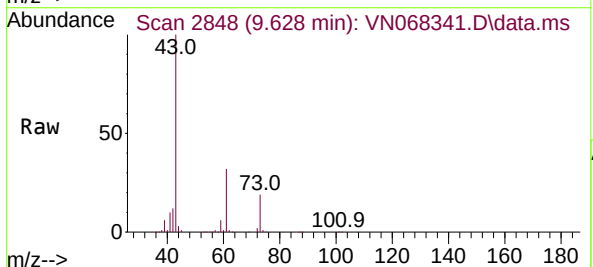
Instrument :
MSVOA_N
ClientSampleId :
WVLY-SOIL-82421

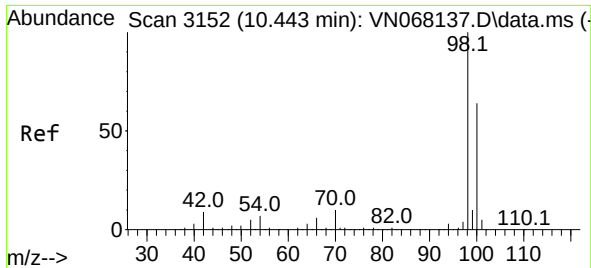
Tgt Ion: 41 Resp: 8361
Ion Ratio Lower Upper
41 100
69 0.0 64.6 96.8#
39 0.0 53.3 79.9#



#49
1,4-Dioxane
Concen: 2.471 ug/l
RT: 9.628 min Scan# 2848
Delta R.T. 0.056 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

Tgt Ion: 88 Resp: 217
Ion Ratio Lower Upper
88 100
43 915642.9 28.8 43.2#
58 4410.6 60.4 90.6#

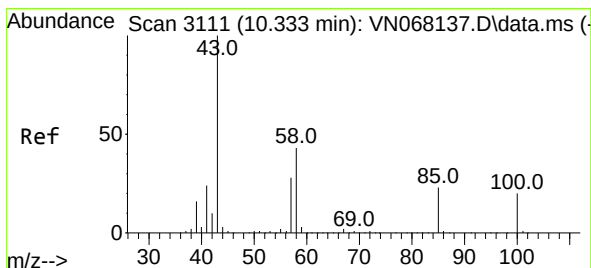
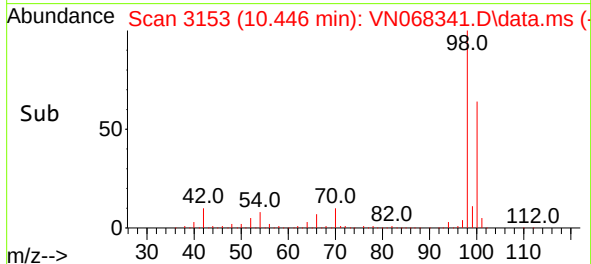
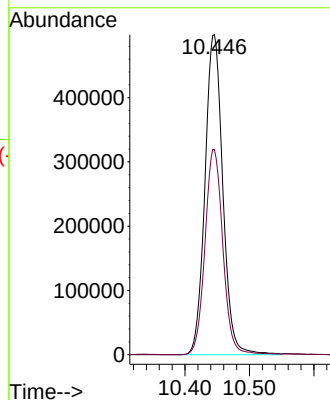
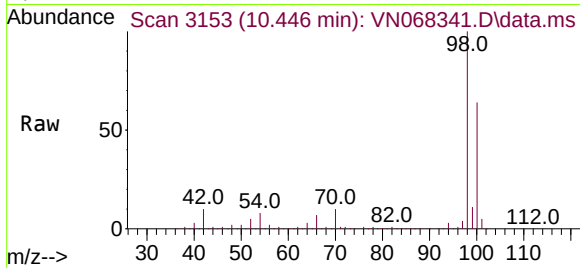




#50
Toluene-d8
Concen: 51.312 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. 0.003 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

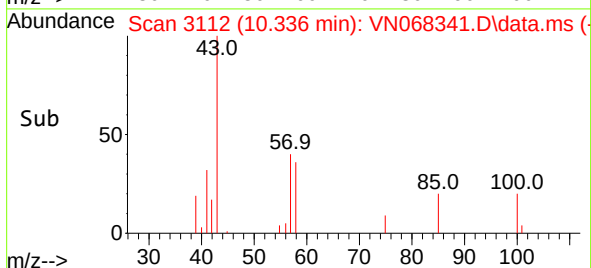
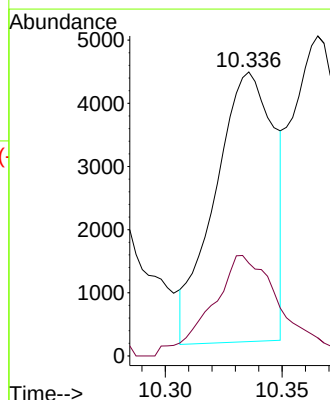
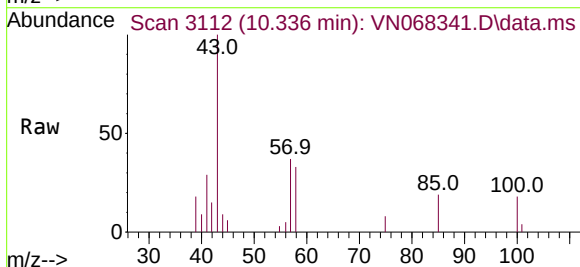
Instrument :
MSVOA_N
ClientSampleId :
WVLY-SOIL-82421

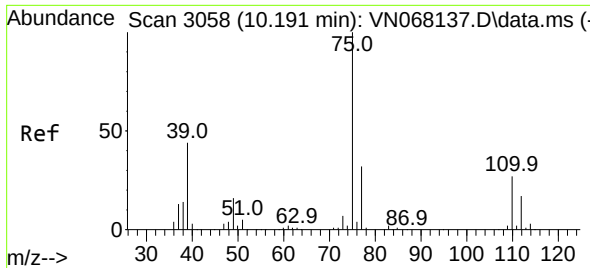
Tgt Ion: 98 Resp: 959166
Ion Ratio Lower Upper
98 100
100 64.0 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.411 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.003 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

Tgt Ion: 43 Resp: 7555
Ion Ratio Lower Upper
43 100
58 43.1 28.6 43.0#

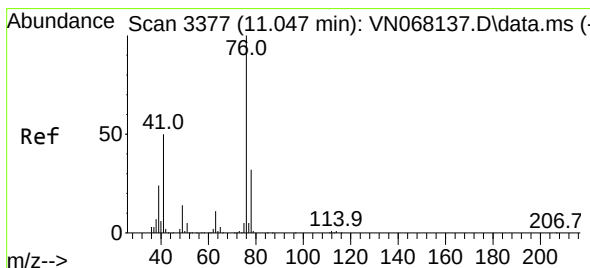
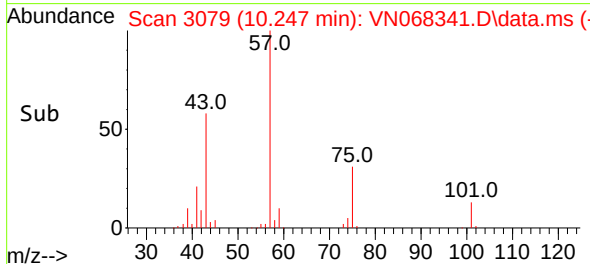
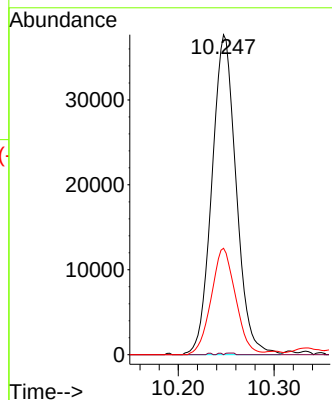
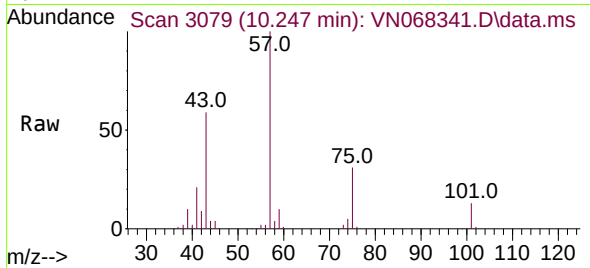




#54
 cis-1,3-Dichloropropene
 Concen: 8.950 ug/l
 RT: 10.247 min Scan# 3079
 Delta R.T. 0.056 min
 Lab File: VN068341.D
 Acq: 27 Aug 2021 13:50

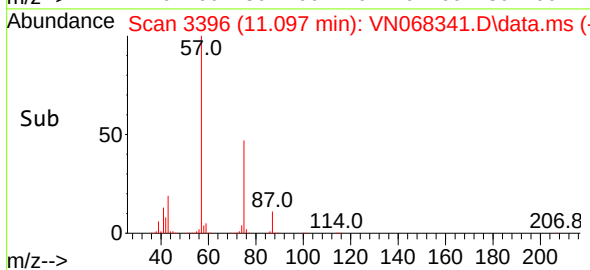
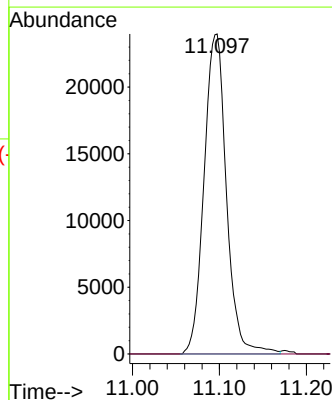
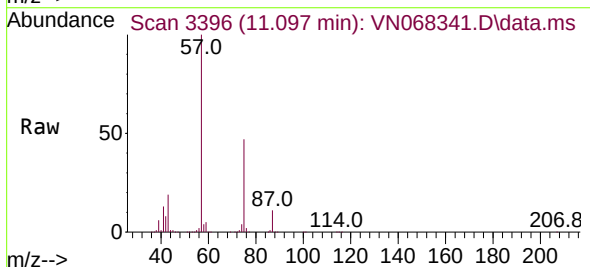
Instrument :
 MSVOA_N
 ClientSampleId :
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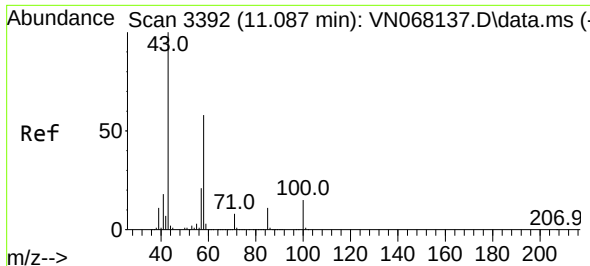
Tgt Ion: 75 Resp: 66208
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 37.0#
 39 33.3 50.7 76.1#



#57
 1,3-Dichloropropane
 Concen: 5.244 ug/l
 RT: 11.097 min Scan# 3396
 Delta R.T. 0.050 min
 Lab File: VN068341.D
 Acq: 27 Aug 2021 13:50

Tgt Ion: 76 Resp: 42896
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#

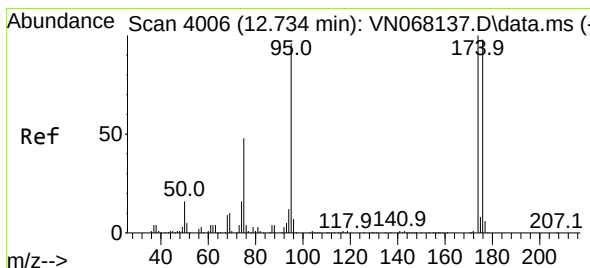
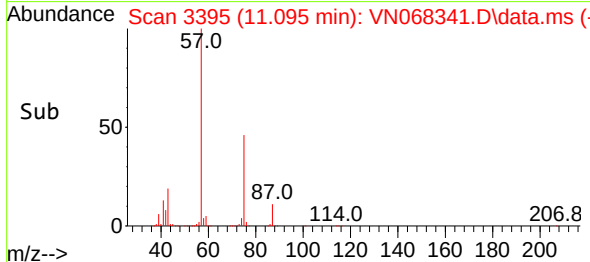
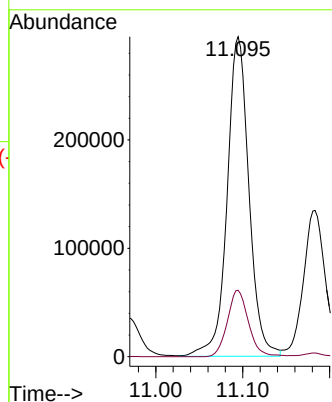
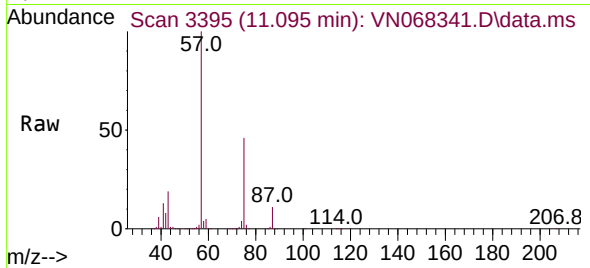




#59
2-Hexanone
Concen: 138.587 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.008 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

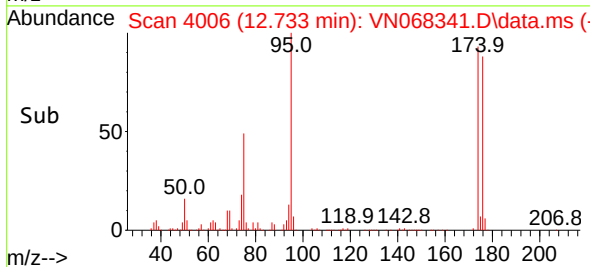
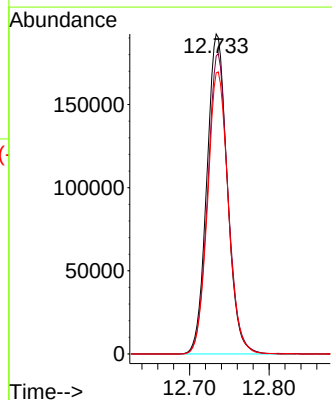
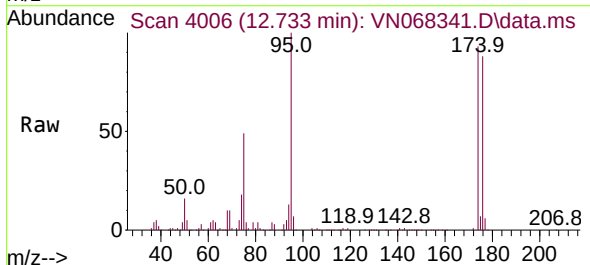
Instrument :
MSVOA_N
ClientSampleId :
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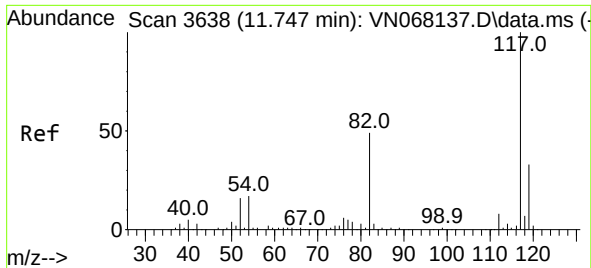
Tgt Ion: 43 Resp: 515268
Ion Ratio Lower Upper
43 100
58 20.1 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 55.129 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.001 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

Tgt Ion: 95 Resp: 343059
Ion Ratio Lower Upper
95 100
174 93.9 0.0 122.0
176 89.3 0.0 117.6

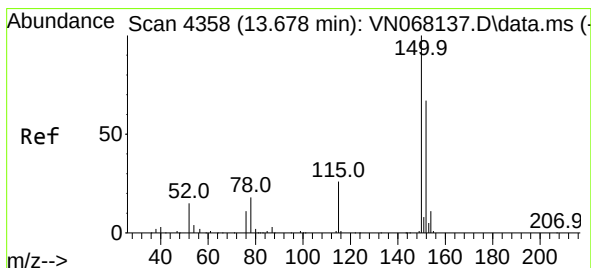
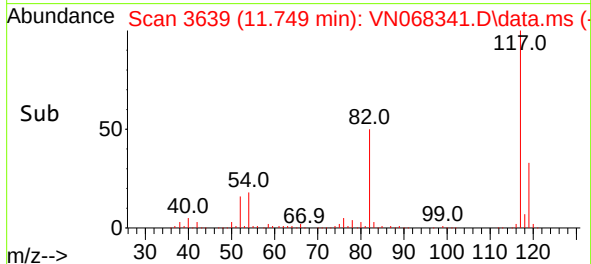
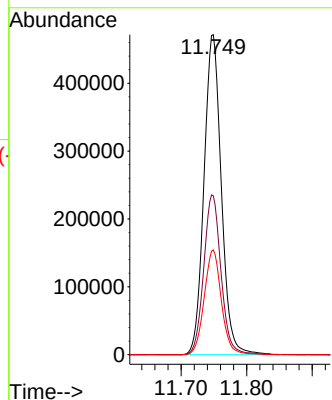
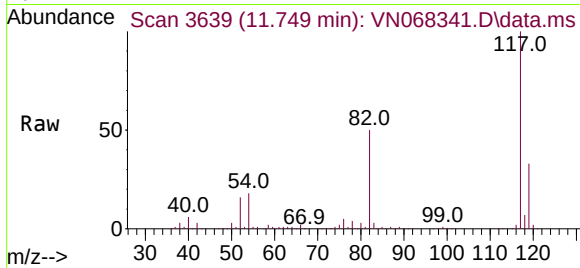




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.002 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

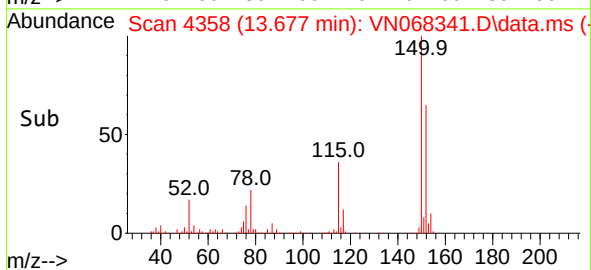
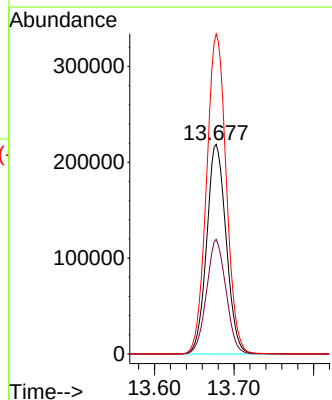
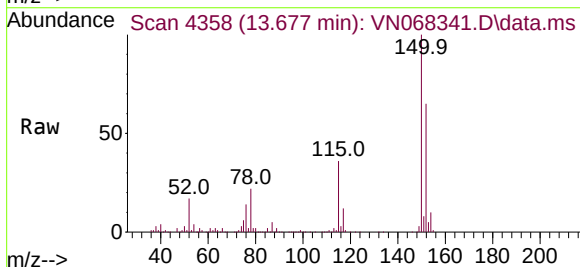
Instrument :
MSVOA_N
ClientSampleId :
WVLY-SOIL-82421

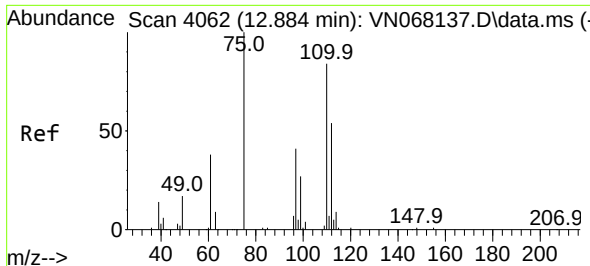
Tgt Ion:117 Resp: 866432
Ion Ratio Lower Upper
117 100
82 49.6 53.1 79.7#
119 32.7 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.677 min Scan# 4358
Delta R.T. -0.001 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

Tgt Ion:152 Resp: 371850
Ion Ratio Lower Upper
152 100
115 54.6 36.1 108.5
150 154.4 0.0 351.8

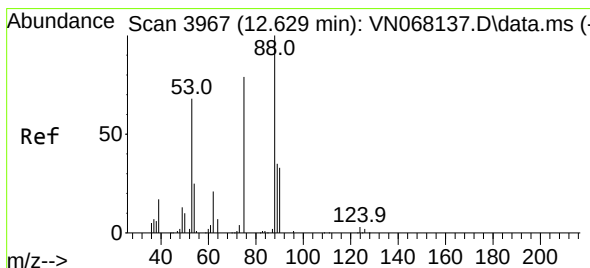
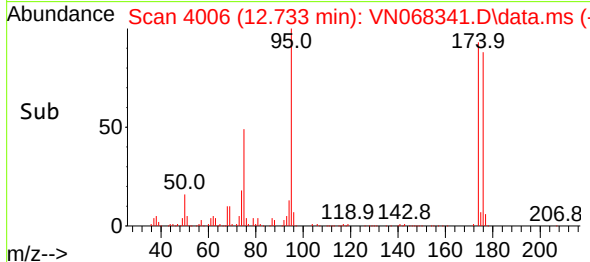
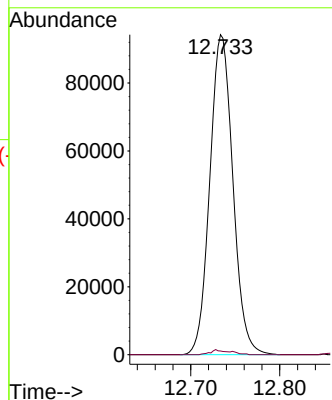
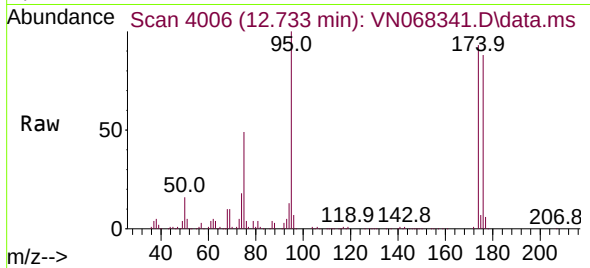




#76
1,2,3-Trichloropropane
Concen: 27.407 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.151 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

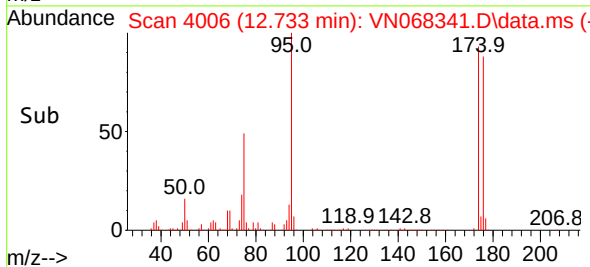
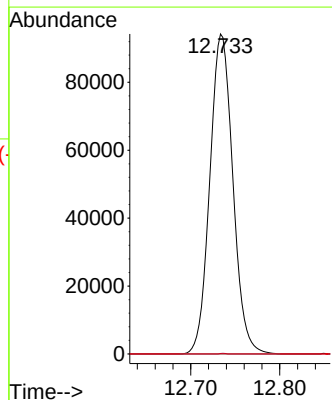
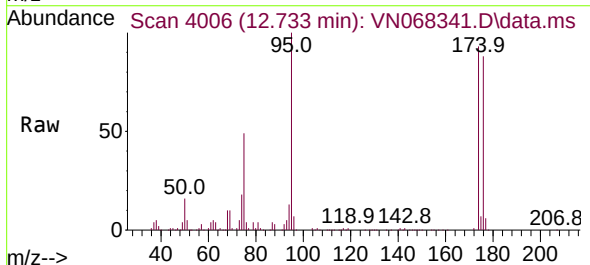
Instrument :
MSVOA_N
ClientSampleId :
WVLY-SOIL-82421

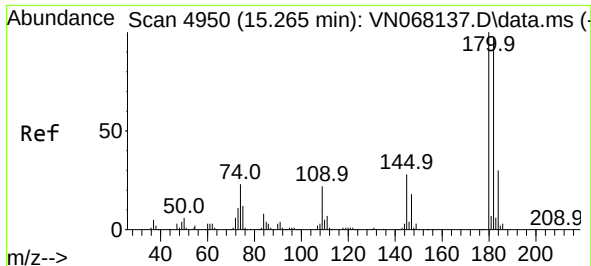
Tgt Ion: 75 Resp: 169390
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 89.790 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.104 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

Tgt Ion: 75 Resp: 169390
Ion Ratio Lower Upper
75 100
53 0.0 87.6 131.4#
89 0.0 37.8 56.8#

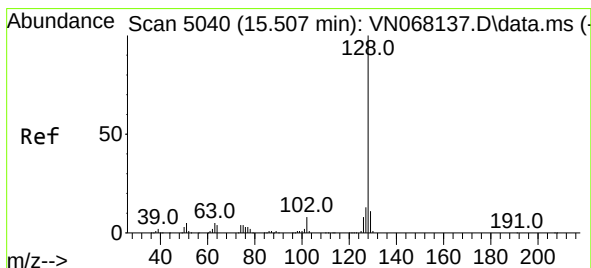
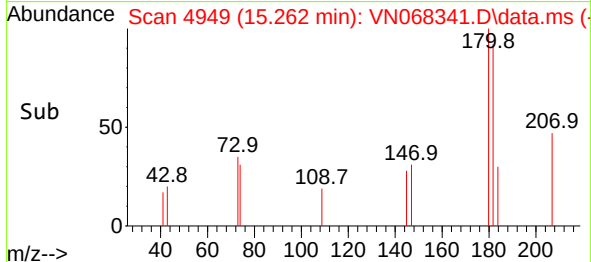
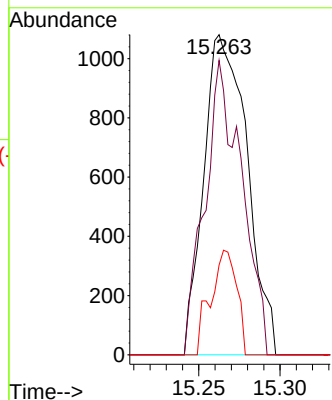
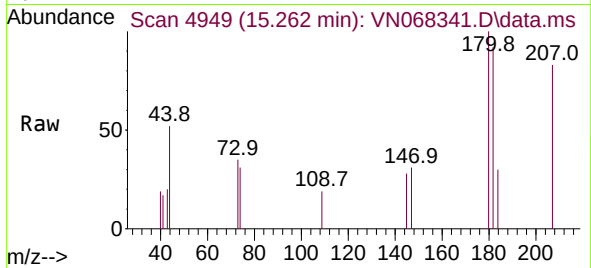




#93
1,2,4-Trichlorobenzene
Concen: 2.991 ug/l
RT: 15.262 min Scan# 4949
Delta R.T. -0.003 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

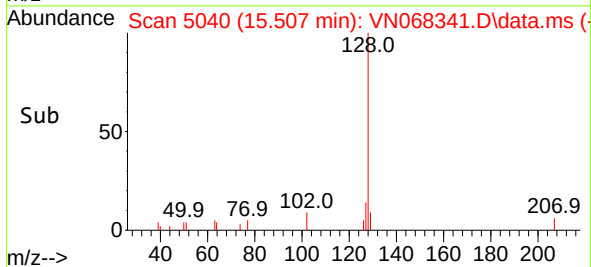
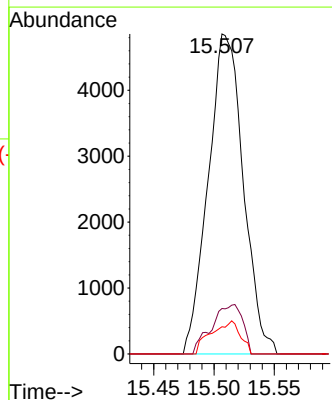
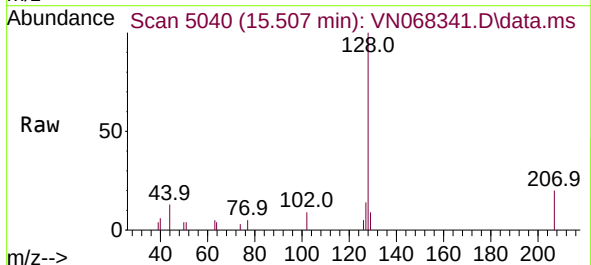
Instrument :
MSVOA_N
ClientSampleId :
WVLY-SOIL-82421

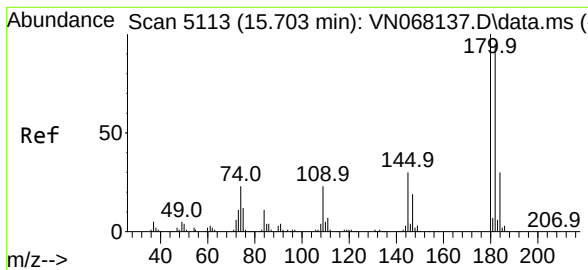
Tgt Ion:	180	Resp:	2004
Ion	Ratio	Lower	Upper
180	100		
182	78.1	47.5	142.5
145	19.7	17.2	51.6



#95
Naphthalene
Concen: 3.973 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN068341.D
Acq: 27 Aug 2021 13:50

Tgt Ion:	128	Resp:	9836
Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.6	15.8
129	8.5	8.6	12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 3.116 ug/l
 RT: 15.700 min Scan# 5112
 Delta R.T. -0.003 min
 Lab File: VN068341.D
 Acq: 27 Aug 2021 13:50

Instrument :
 MSVOA_N
 ClientSampleId :
 WVLY-SOIL-82421

Tgt Ion:	180	Resp:	1777
Ion	Ratio	Lower	Upper
180	100		
182	82.2	47.8	143.3
145	19.5	18.2	54.6

