

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032622\
 Data File : VN071589.D
 Acq On : 26 Mar 2022 21:51
 Operator : JC\MD
 Sample : N2134-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PIT-11-STOCKPILE-GRAB-1

Quant Time: Mar 28 02:21:56 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N032522W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 25 09:52:40 2022
 Response via : Initial Calibration

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

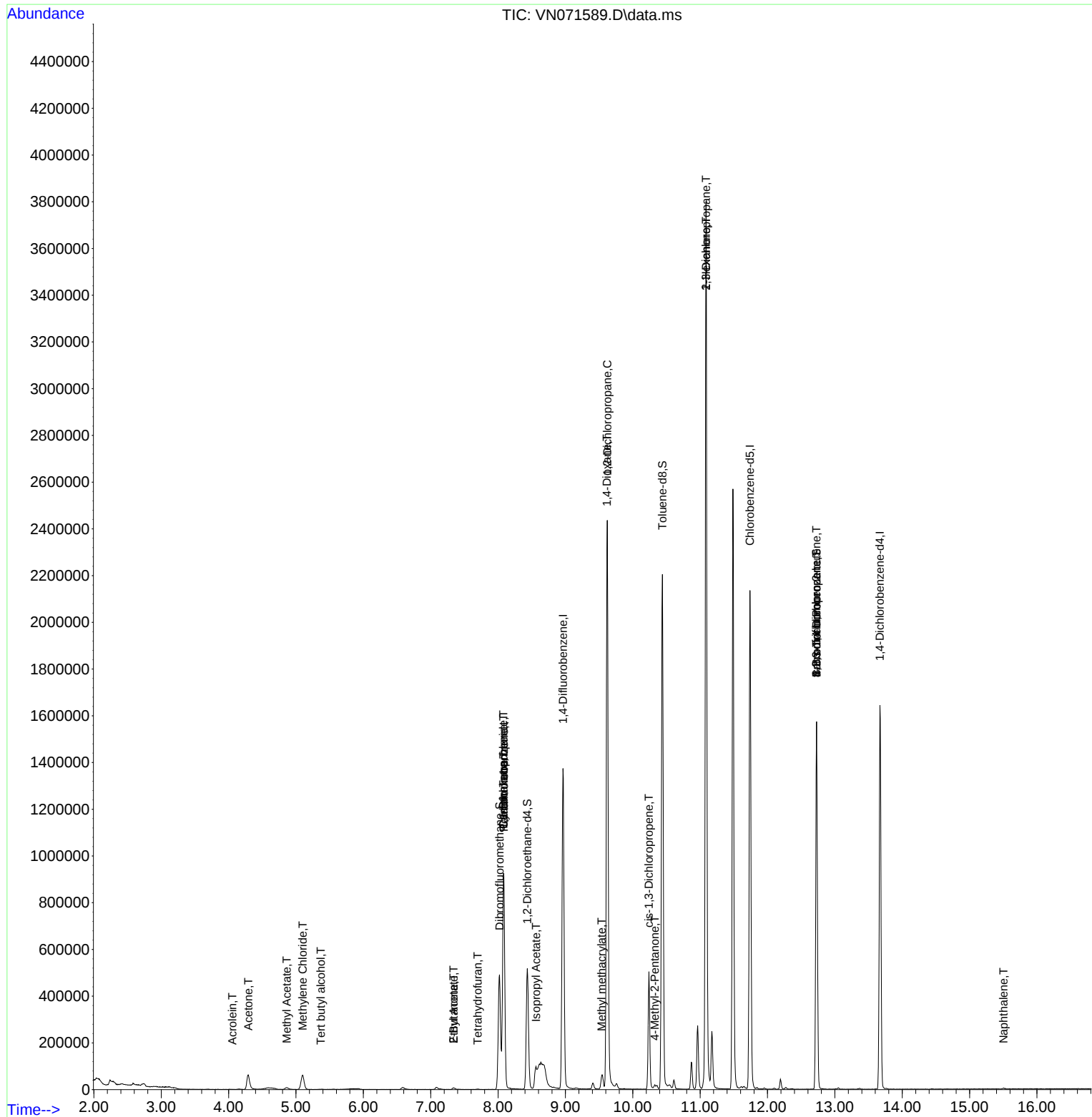
Internal Standards						
1) Pentafluorobenzene	8.086	168	756835	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1280544	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1300547	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.668	152	486026	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	439270	46.716	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	93.440%		
35) Dibromofluoromethane	8.022	113	365914	45.467	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	90.940%		
50) Toluene-d8	10.439	98	1603741	49.405	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	98.800%		
62) 4-Bromofluorobenzene	12.727	95	554013	52.087	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	104.180%		
Target Compounds						Qvalue
3) Chloromethane	2.299	50	2056	Below Cal		97
11) Tert butyl alcohol	5.369	59	1476	0.842 ug/l #		72
13) Acrolein	4.057	56	426	0.318 ug/l #		16
16) Acetone	4.293	43	118449	30.733 ug/l		97
18) Methyl Acetate	4.863	43	18860	0.639 ug/l		93
20) Methylene Chloride	5.098	84	53071	5.910 ug/l		94
25) 2-Butanone	7.339	43	13289	2.149 ug/l		96
29) Tetrahydrofuran	7.698	42	1448	0.352 ug/l #		47
31) Cyclohexane	8.081	56	13121	0.975 ug/l #		1
36) 1,1-Dichloropropene	8.081	75	52718	4.543 ug/l #		49
37) Ethyl Acetate	7.339	43	13289	1.051 ug/l #		67
38) Carbon Tetrachloride	8.081	117	69596	6.153 ug/l #		17
43) Isopropyl Acetate	8.563	43	107143	4.932 ug/l #		76
45) 1,2-Dichloropropane	9.622	63	3419	0.382 ug/l #		44
48) Methyl methacrylate	9.539	41	16849	1.845 ug/l #		10
49) 1,4-Dioxane	9.616	88	660	3.133 ug/l #		1
51) 4-Methyl-2-Pentanone	10.327	43	10519	0.831 ug/l		97
54) cis-1,3-Dichloropropene	10.239	75	94670	6.689 ug/l #		62
57) 1,3-Dichloropropane	11.086	76	42916	2.783 ug/l #		42
59) 2-Hexanone	11.086	43	562239	61.593 ug/l #		47
71) Bromoform	12.727	173	3088	0.402 ug/l #		1
75) 1,1,2,2-Tetrachloroethane	12.721	83	310	Below Cal #		1
76) 1,2,3-Trichloropropane	12.727	75	275531	25.423 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.727	75	275531	68.065 ug/l #		10
95) Naphthalene	15.504	128	3769	3.357 ug/l #		93

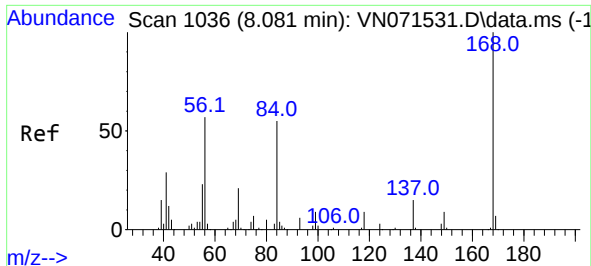
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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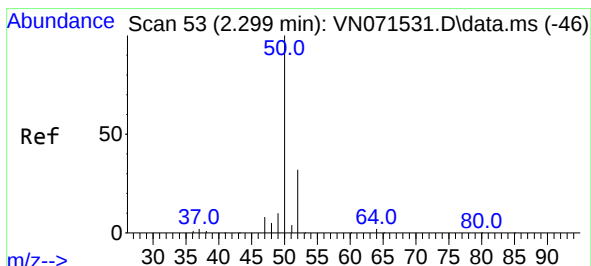
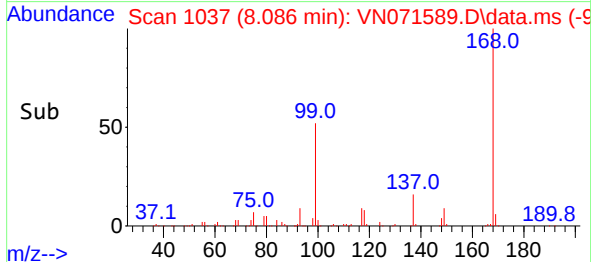
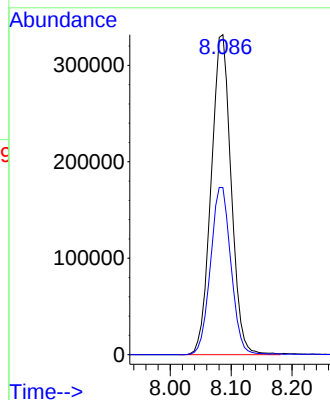
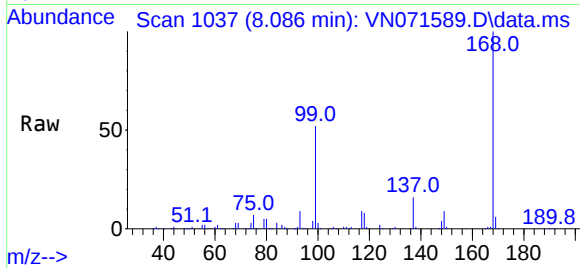




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

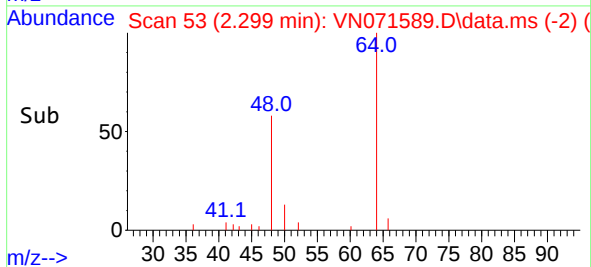
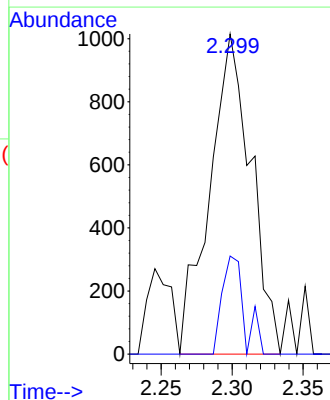
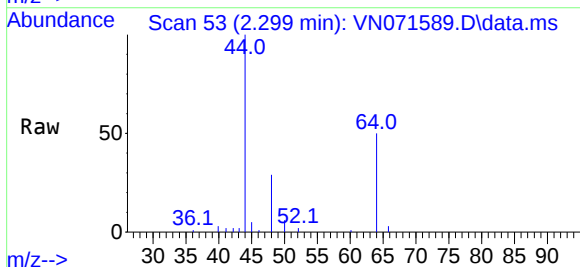
Instrument :
MSVOA_N
ClientSampleId :
PIT-11-STOCKPILE-GRAB-1

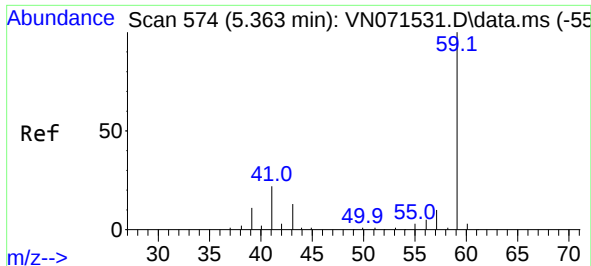
Tgt Ion:168 Resp: 756835
Ion Ratio Lower Upper
168 100
99 52.2 42.3 63.5



#3
Chloromethane
Concen: Below Cal
RT: 2.299 min Scan# 53
Delta R.T. -0.000 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

Tgt Ion: 50 Resp: 2056
Ion Ratio Lower Upper
50 100
52 30.6 25.7 38.5

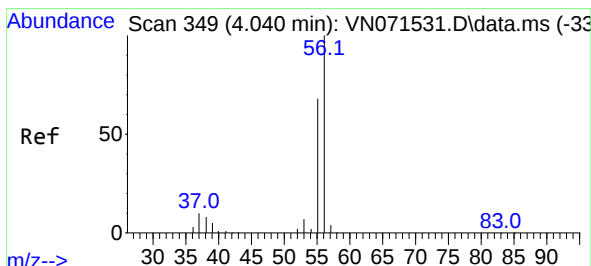
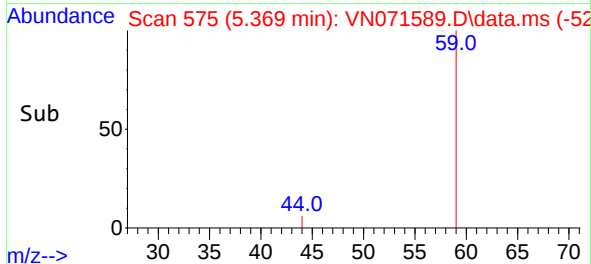
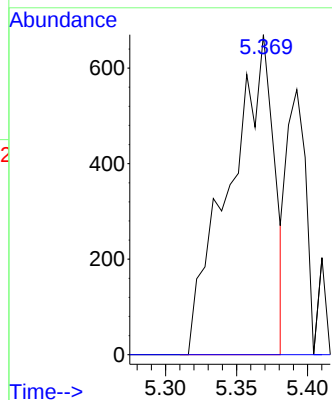
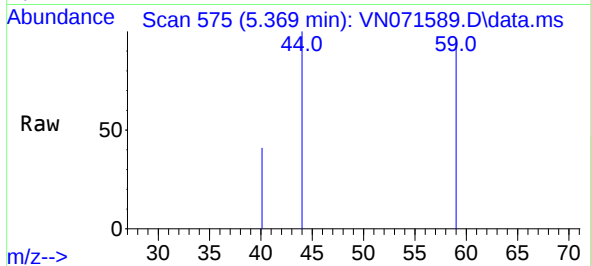




#11
Tert butyl alcohol
Concen: 0.842 ug/l
RT: 5.369 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

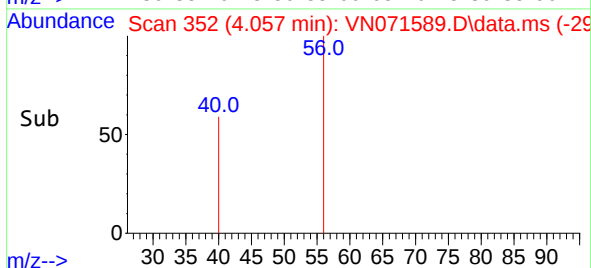
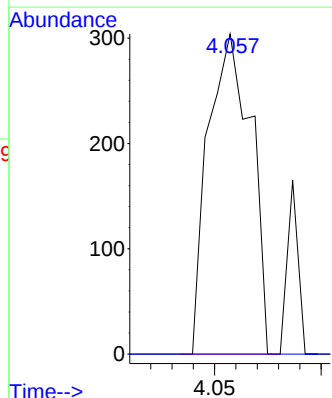
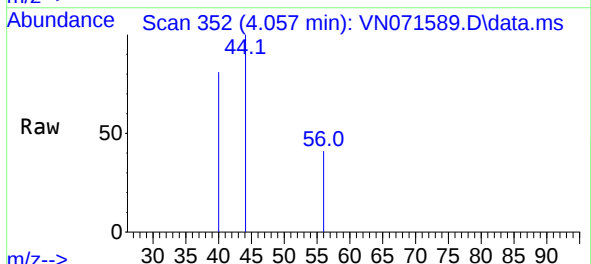
Instrument :
MSVOA_N
ClientSampleId :
PIT-11-STOCKPILE-GRAB-1

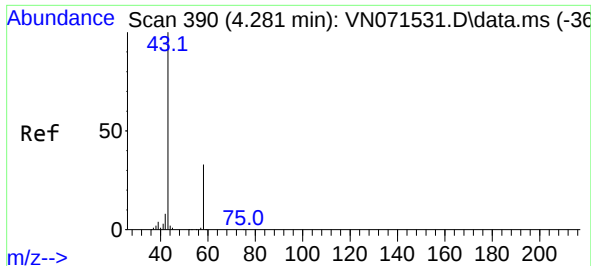
Tgt Ion: 59 Resp: 1476
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 0.318 ug/l
RT: 4.057 min Scan# 352
Delta R.T. 0.017 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

Tgt Ion: 56 Resp: 426
Ion Ratio Lower Upper
56 100
55 0.0 54.8 82.2#

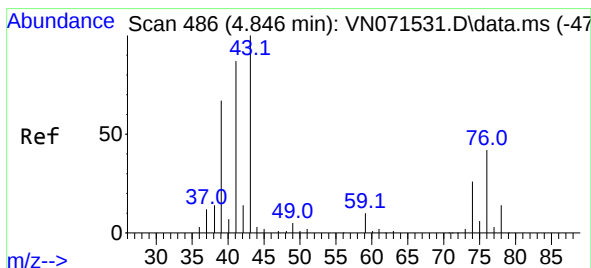
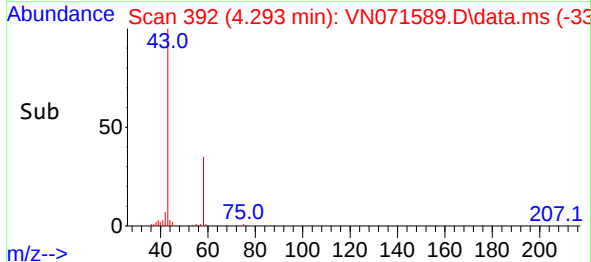
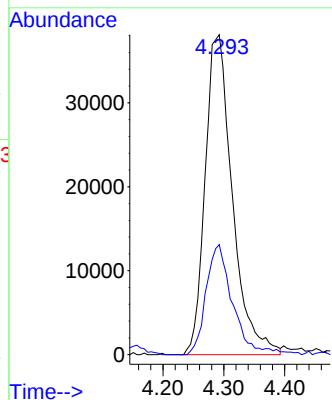
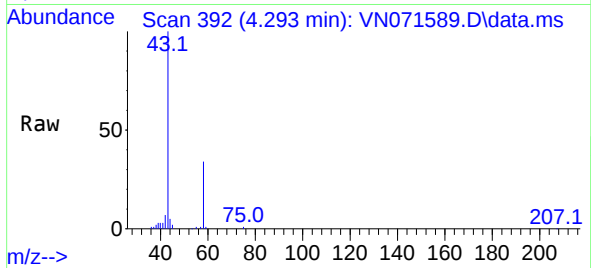




#16
Acetone
Concen: 30.733 ug/l
RT: 4.293 min Scan# 391
Delta R.T. 0.012 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

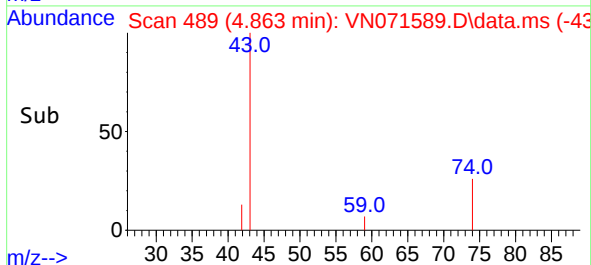
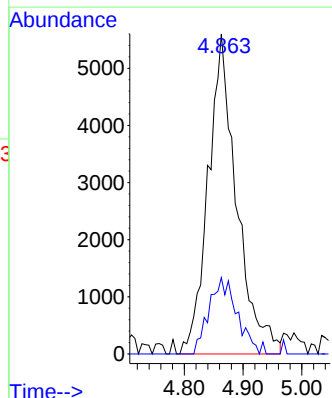
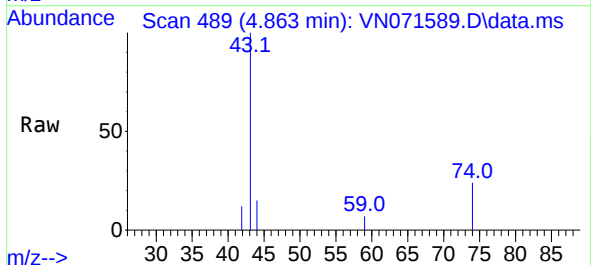
Instrument :
MSVOA_N
ClientSampleId :
PIT-11-STOCKPILE-GRAB-1

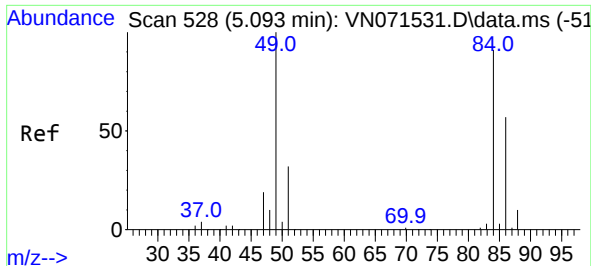
Tgt Ion: 43 Resp: 118449
Ion Ratio Lower Upper
43 100
58 34.4 26.0 39.0



#18
Methyl Acetate
Concen: 0.639 ug/l
RT: 4.863 min Scan# 489
Delta R.T. 0.017 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

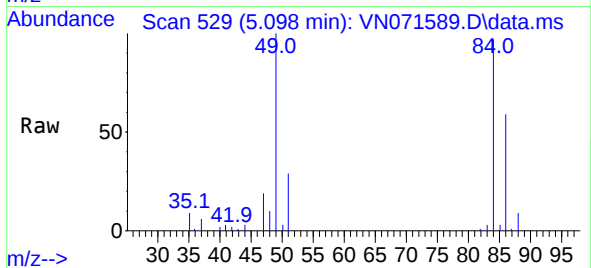
Tgt Ion: 43 Resp: 18860
Ion Ratio Lower Upper
43 100
74 23.3 21.6 32.4





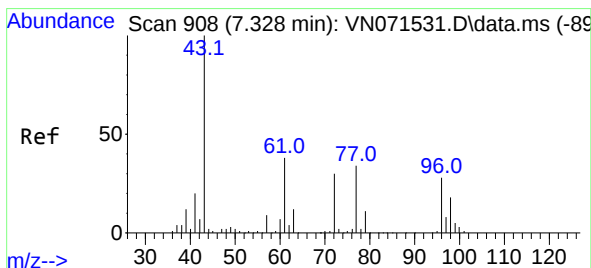
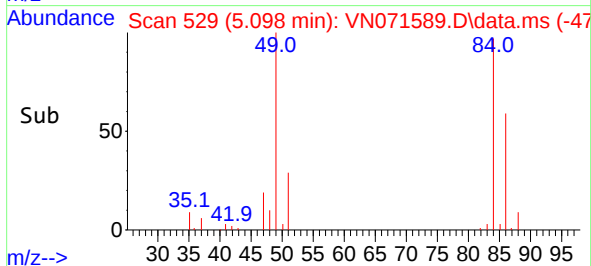
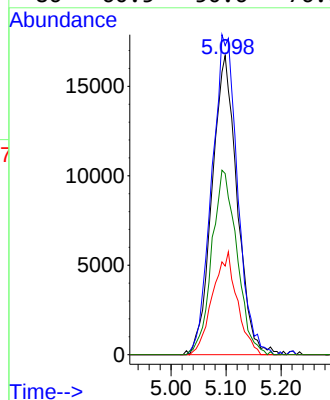
#20
Methylene Chloride
Concen: 5.910 ug/l
RT: 5.098 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

Instrument :
MSVOA_N
ClientSampleId :
PIT-11-STOCKPILE-GRAB-1



Tgt Ion: 84 Resp: 53071

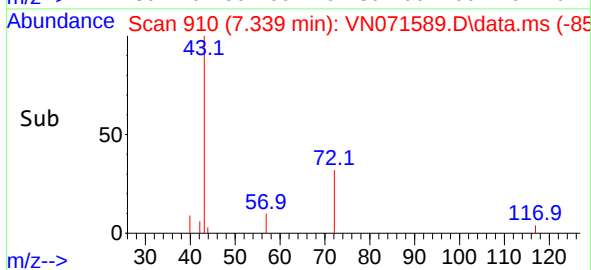
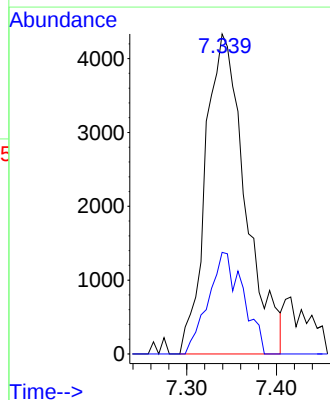
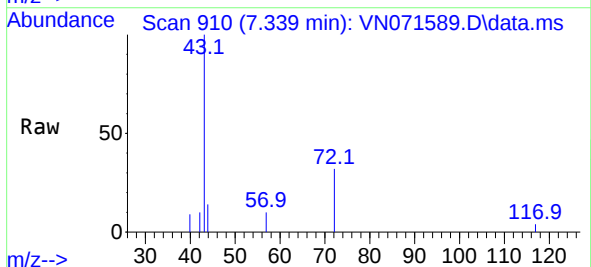
Ion	Ratio	Lower	Upper
84	100		
49	103.3	88.3	132.5
51	29.6	28.2	42.2
86	60.5	50.6	76.0

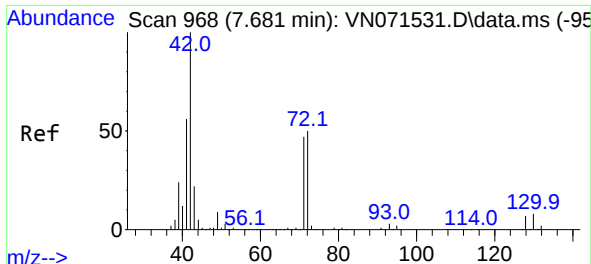


#25
2-Butanone
Concen: 2.149 ug/l
RT: 7.339 min Scan# 910
Delta R.T. 0.012 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

Tgt Ion: 43 Resp: 13289

Ion	Ratio	Lower	Upper
43	100		
72	31.7	23.7	35.5

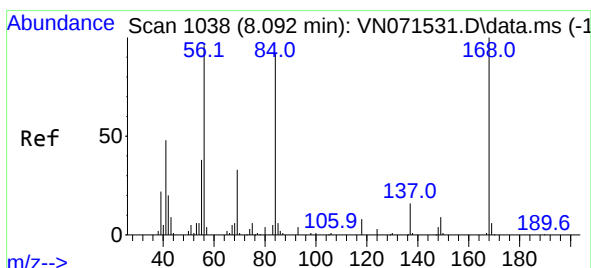
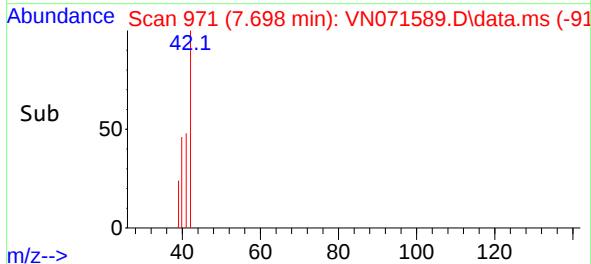
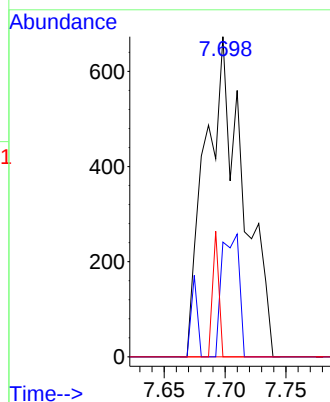
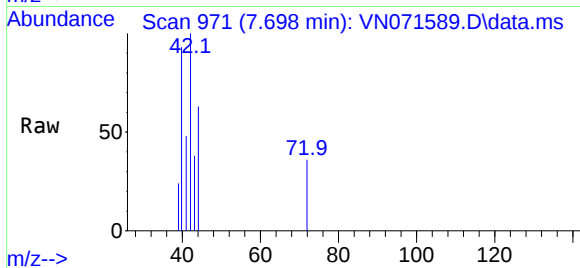




#29
Tetrahydrofuran
Concen: 0.352 ug/l
RT: 7.698 min Scan# 91
Delta R.T. 0.017 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

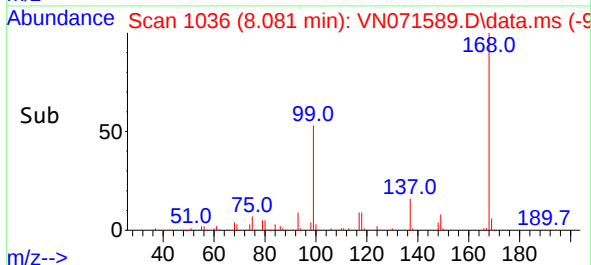
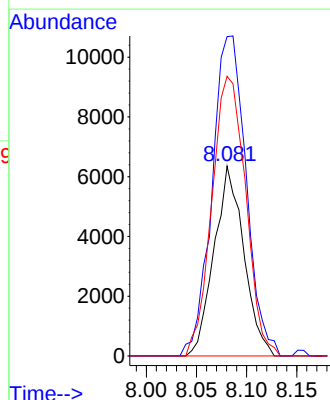
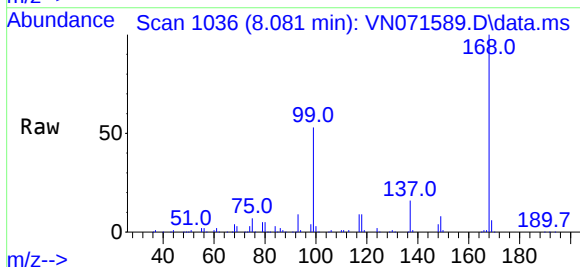
Instrument :
MSVOA_N
ClientSampleId :
PIT-11-STOCKPILE-GRAB-1

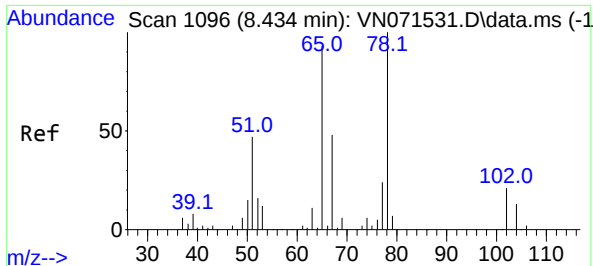
Tgt Ion:	42	Resp:	1448
Ion	Ratio	Lower	Upper
42	100		
72	17.7	39.7	59.5#
71	6.4	36.6	55.0#



#31
Cyclohexane
Concen: 0.975 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.012 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

Tgt Ion:	56	Resp:	13121
Ion	Ratio	Lower	Upper
56	100		
69	168.4	27.8	41.8#
84	147.5	76.9	115.3#

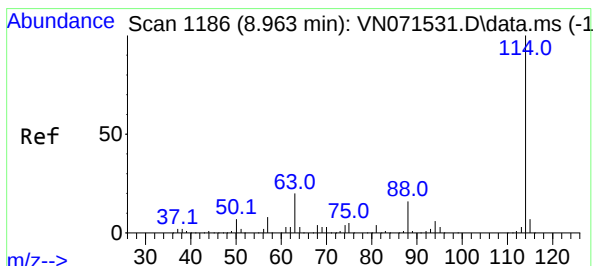
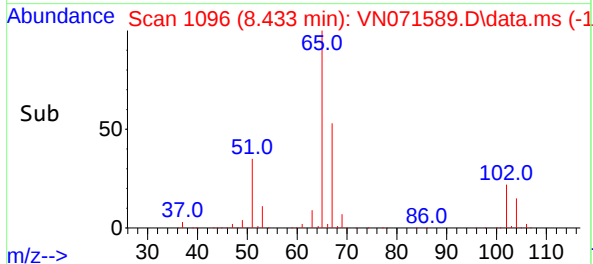
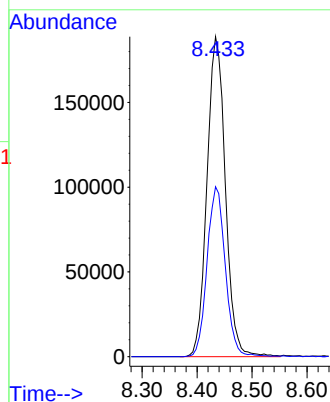
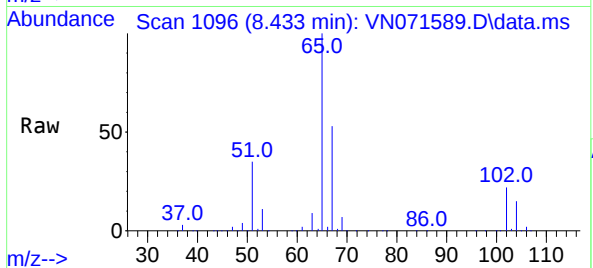




#33
1,2-Dichloroethane-d4
Concen: 46.716 ug/l
RT: 8.433 min Scan# 1096
Delta R.T. -0.000 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

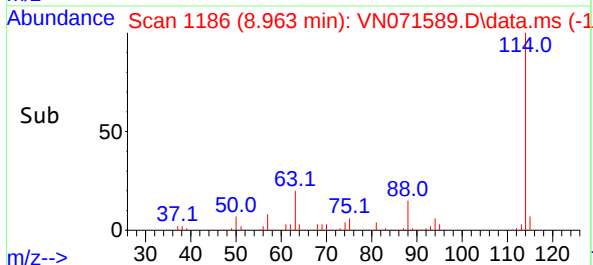
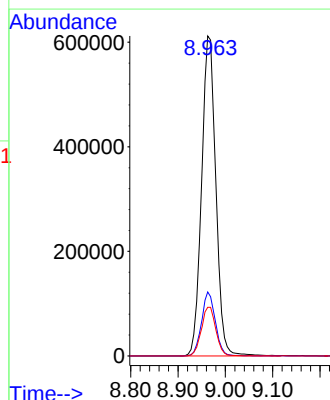
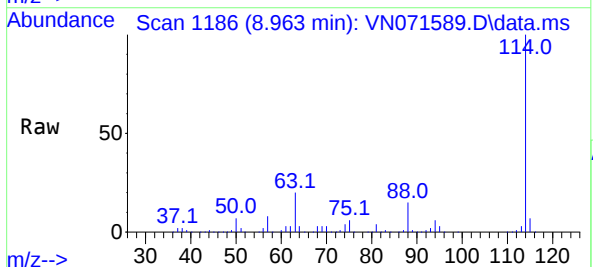
Instrument : MSVOA_N
ClientSampleId : PIT-11-STOCKPILE-GRAB-1

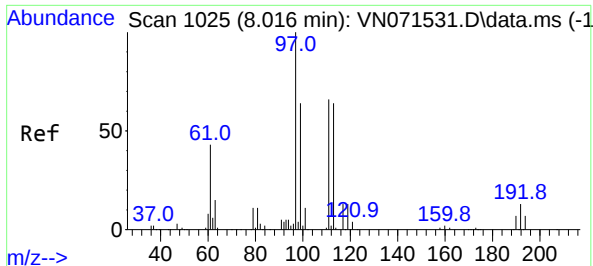
Tgt Ion: 65 Resp: 439270
Ion Ratio Lower Upper
65 100
67 52.6 0.0 104.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

Tgt Ion:114 Resp: 1280544
Ion Ratio Lower Upper
114 100
63 20.0 0.0 40.0
88 15.2 0.0 32.6

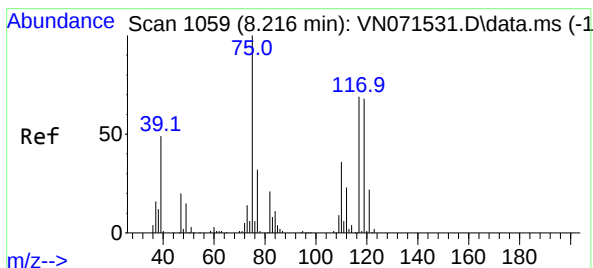
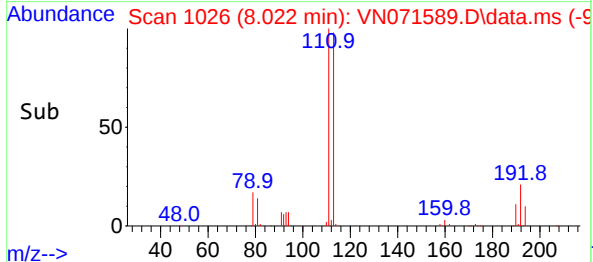
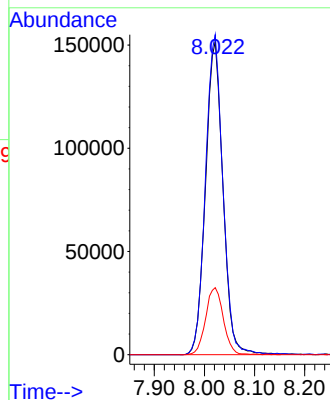
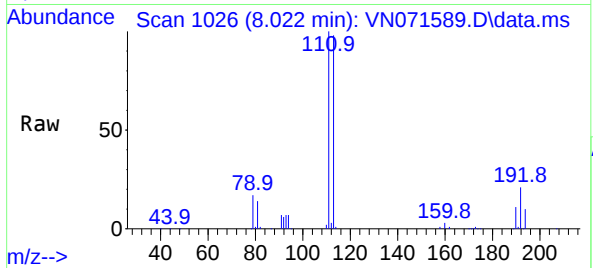




#35
Dibromofluoromethane
Concen: 45.467 ug/l
RT: 8.022 min Scan# 1036
Delta R.T. 0.006 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

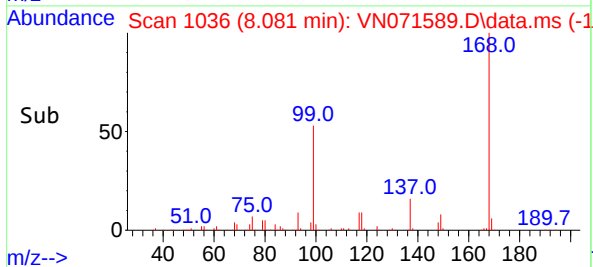
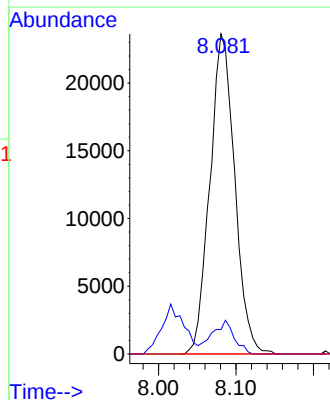
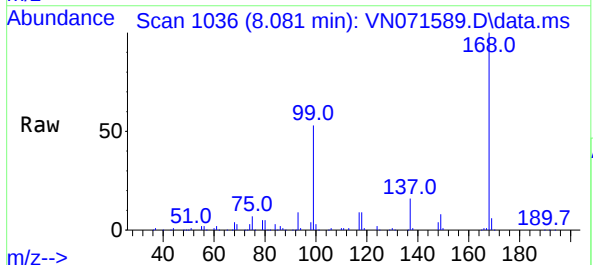
Instrument :
MSVOA_N
ClientSampleId :
PIT-11-STOCKPILE-GRAB-1

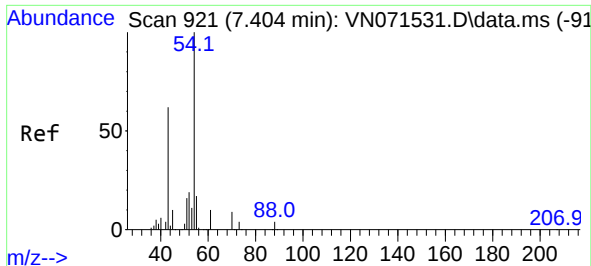
Tgt Ion:113 Resp: 365914
Ion Ratio Lower Upper
113 100
111 102.1 81.4 122.0
192 21.8 17.0 25.6



#36
1,1-Dichloropropene
Concen: 4.543 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.135 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

Tgt Ion: 75 Resp: 52718
Ion Ratio Lower Upper
75 100
110 9.4 18.3 54.8#
77 0.0 25.1 37.7#

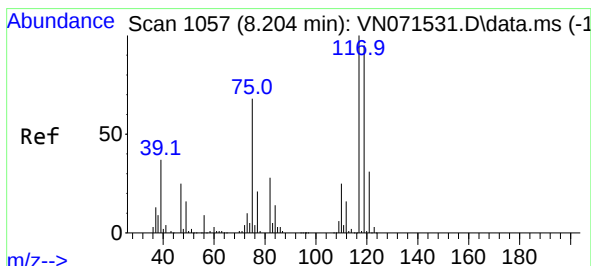
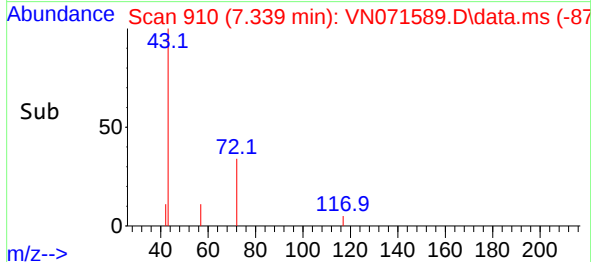
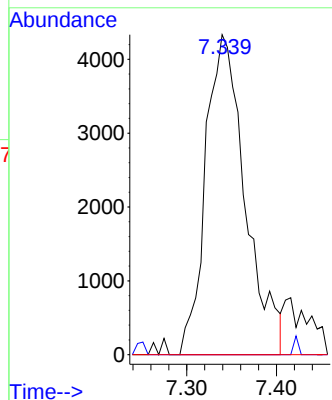
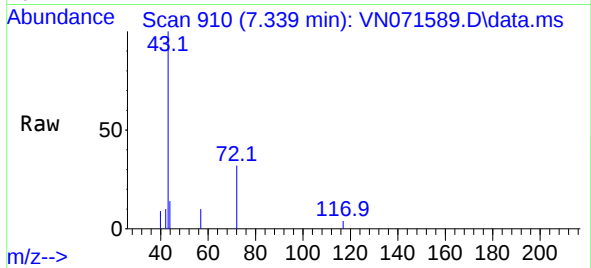




#37
Ethyl Acetate
Concen: 1.051 ug/l
RT: 7.339 min Scan# 91
Delta R.T. -0.065 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

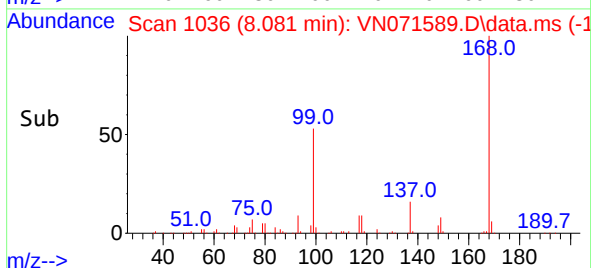
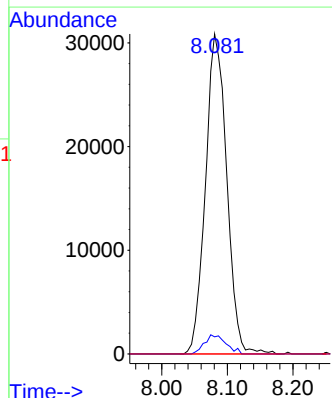
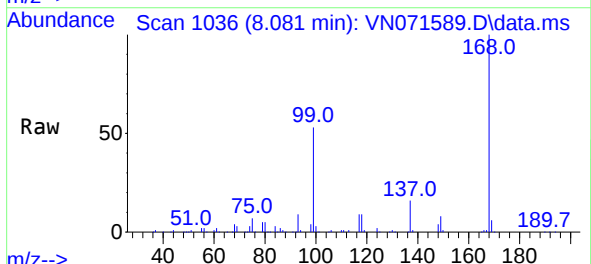
Instrument :
MSVOA_N
ClientSampleId :
PIT-11-STOCKPILE-GRAB-1

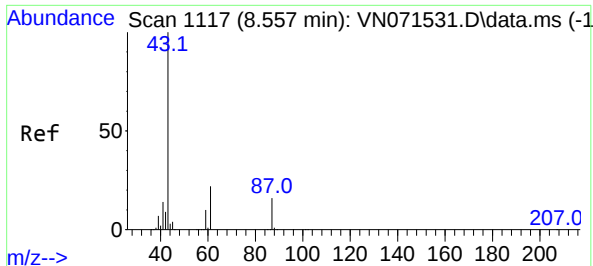
Tgt Ion: 43 Resp: 13289
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 6.153 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.124 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

Tgt Ion: 117 Resp: 69596
Ion Ratio Lower Upper
117 100
119 5.4 75.8 113.8#
121 0.0 24.6 37.0#

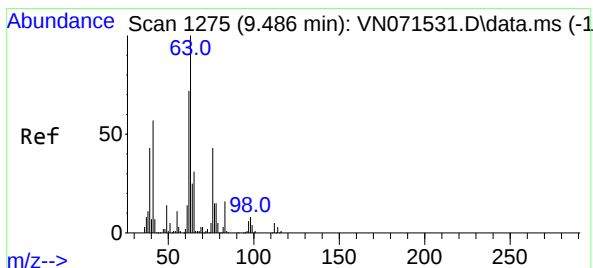
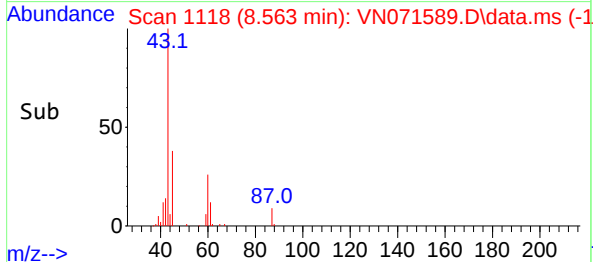
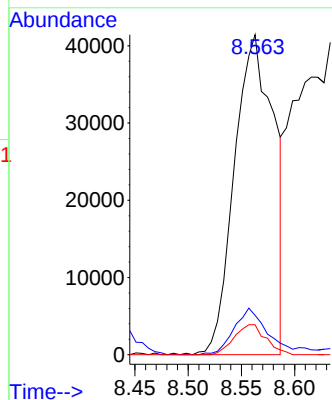
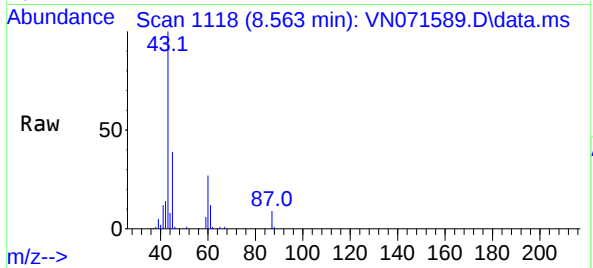




#43
Isopropyl Acetate
Concen: 4.932 ug/l
RT: 8.563 min Scan# 1118
Delta R.T. 0.006 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

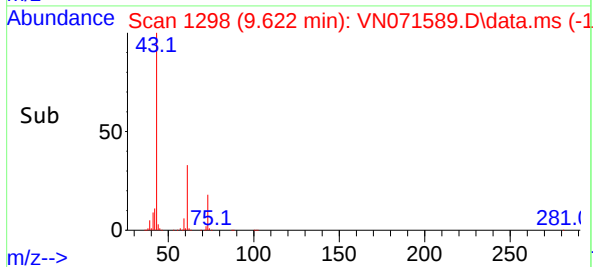
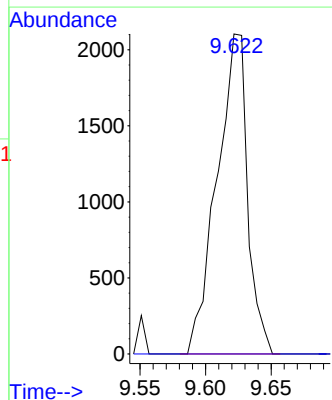
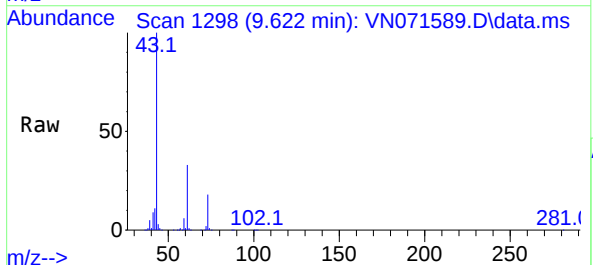
Instrument :
MSVOA_N
ClientSampleId :
PIT-11-STOCKPILE-GRAB-1

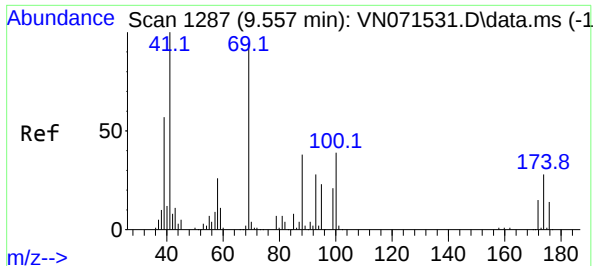
Tgt Ion: 43 Resp: 107143
Ion Ratio Lower Upper
43 100
61 13.1 21.9 32.9#
87 7.5 12.0 18.0#



#45
1,2-Dichloropropane
Concen: 0.382 ug/l
RT: 9.622 min Scan# 1298
Delta R.T. 0.135 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

Tgt Ion: 63 Resp: 3419
Ion Ratio Lower Upper
63 100
65 0.0 24.9 37.3#





#48

Methyl methacrylate

Concen: 1.845 ug/l

RT: 9.539 min Scan# 1

Delta R.T. -0.018 min

Lab File: VN071589.D

Acq: 26 Mar 2022 21:51

Instrument :

MSVOA_N

ClientSampleId :

PIT-11-STOCKPILE-GRAB-1

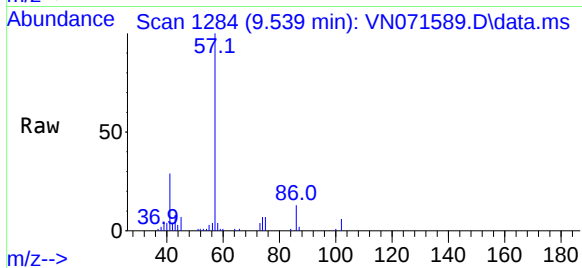
Tgt Ion: 41 Resp: 16849

Ion Ratio Lower Upper

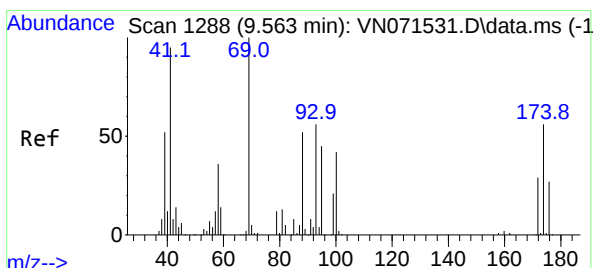
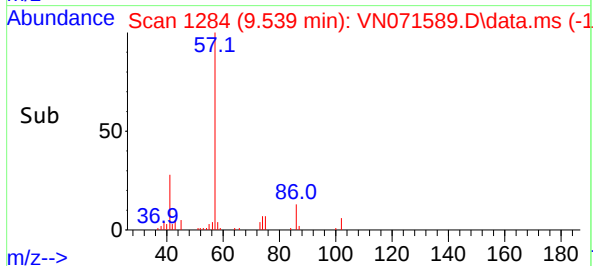
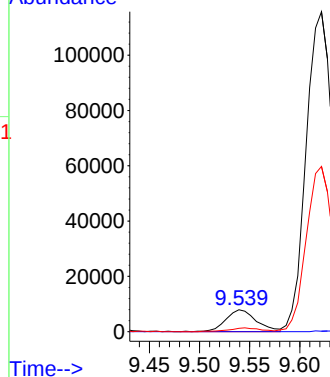
41 100

69 0.0 74.7 112.1#

39 0.0 45.6 68.4#



Abundance



#49

1,4-Dioxane

Concen: 3.133 ug/l

RT: 9.616 min Scan# 1297

Delta R.T. 0.053 min

Lab File: VN071589.D

Acq: 26 Mar 2022 21:51

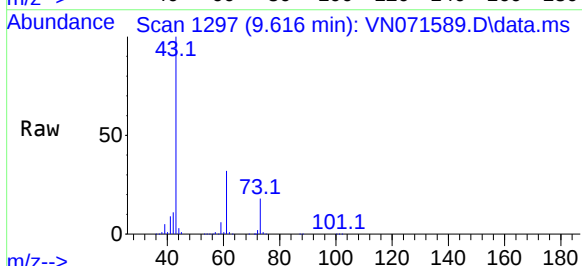
Tgt Ion: 88 Resp: 660

Ion Ratio Lower Upper

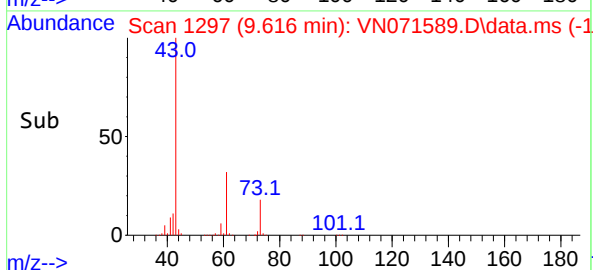
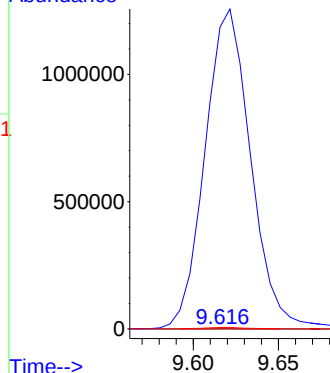
88 100

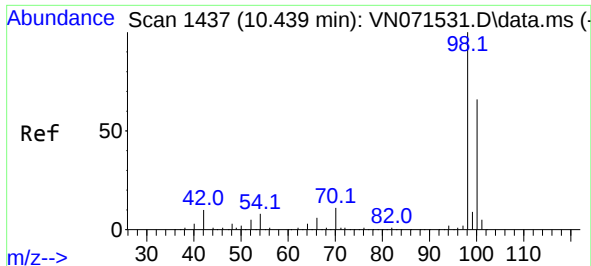
43 360233.0 20.2 30.4#

58 1682.1 54.2 81.4#



Abundance

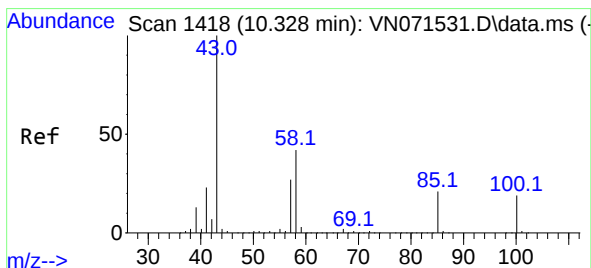
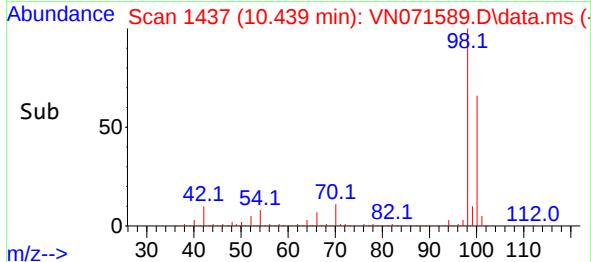
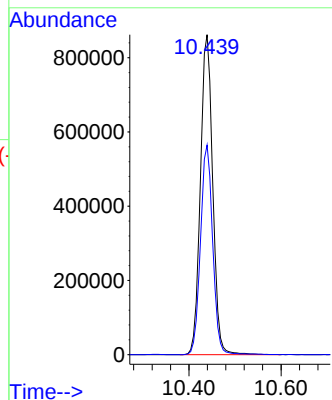
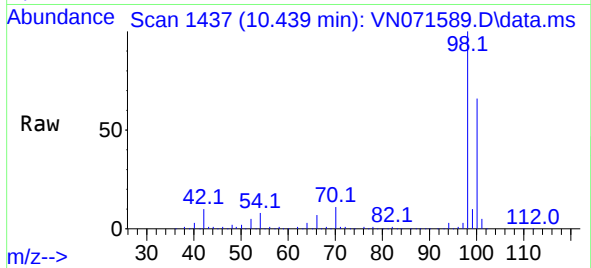




#50
Toluene-d8
Concen: 49.405 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

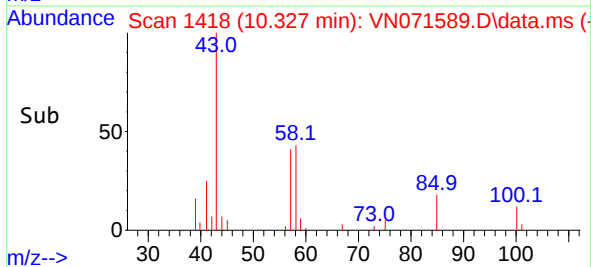
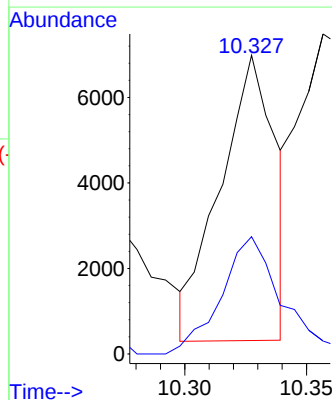
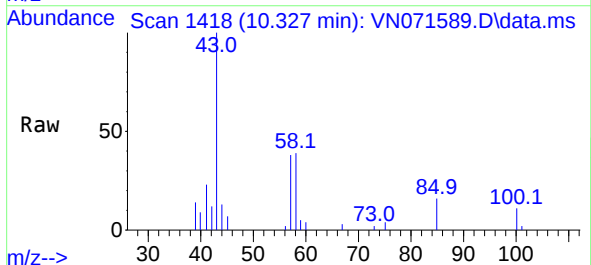
Instrument : MSVOA_N
ClientSampleId : PIT-11-STOCKPILE-GRAB-1

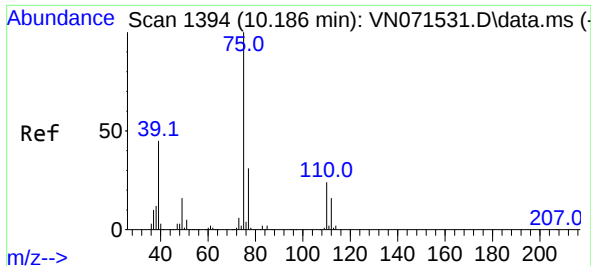
Tgt Ion: 98 Resp: 1603741
Ion Ratio Lower Upper
98 100
100 64.8 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 0.831 ug/l
RT: 10.327 min Scan# 1418
Delta R.T. -0.000 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

Tgt Ion: 43 Resp: 10519
Ion Ratio Lower Upper
43 100
58 44.8 34.1 51.1

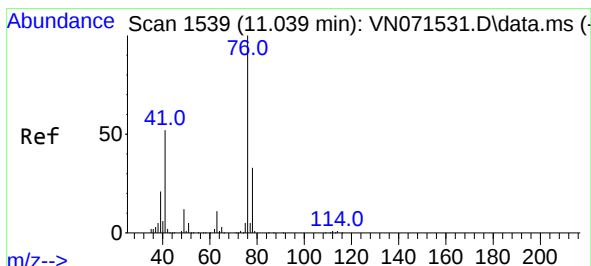
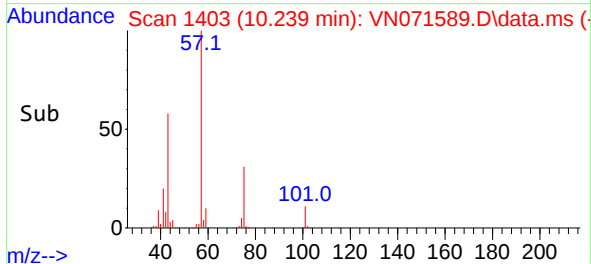
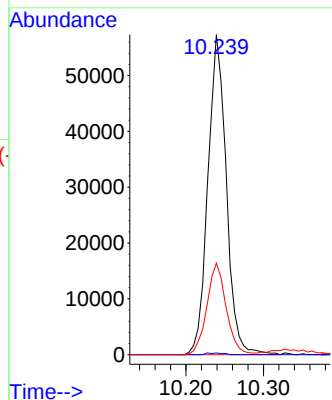
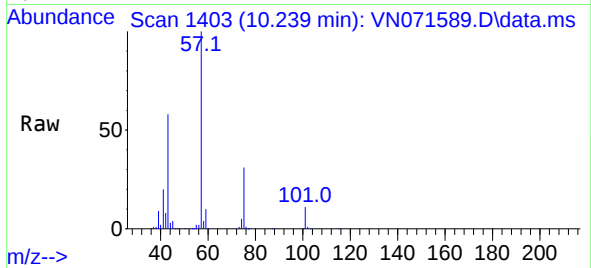




#54
 cis-1,3-Dichloropropene
 Concen: 6.689 ug/l
 RT: 10.239 min Scan# 14
 Delta R.T. 0.053 min
 Lab File: VN071589.D
 Acq: 26 Mar 2022 21:51

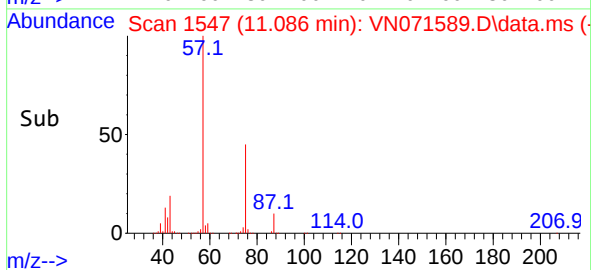
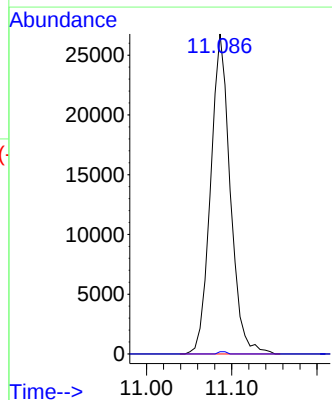
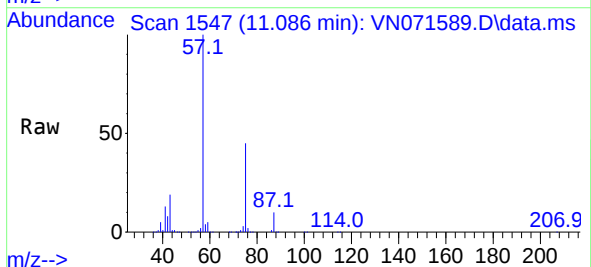
Instrument :
 MSVOA_N
 ClientSampleId :
 PIT-11-STOCKPILE-GRAB-1

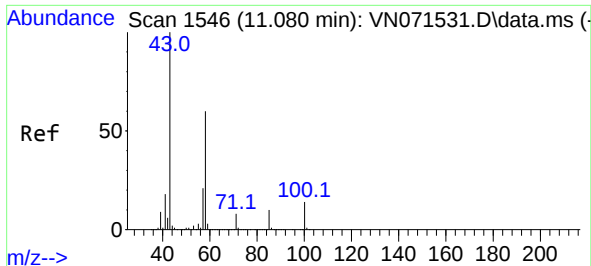
Tgt Ion: 75 Resp: 94670
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.2 37.8#
 39 28.6 35.7 53.5#



#57
 1,3-Dichloropropane
 Concen: 2.783 ug/l
 RT: 11.086 min Scan# 1547
 Delta R.T. 0.047 min
 Lab File: VN071589.D
 Acq: 26 Mar 2022 21:51

Tgt Ion: 76 Resp: 42916
 Ion Ratio Lower Upper
 76 100
 78 0.3 26.2 39.2#

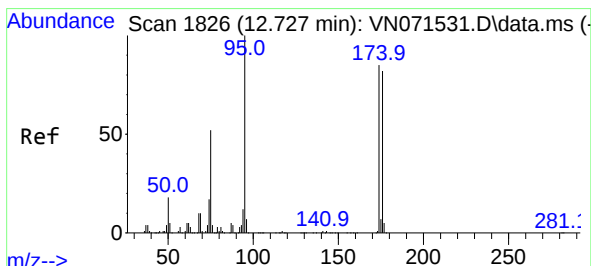
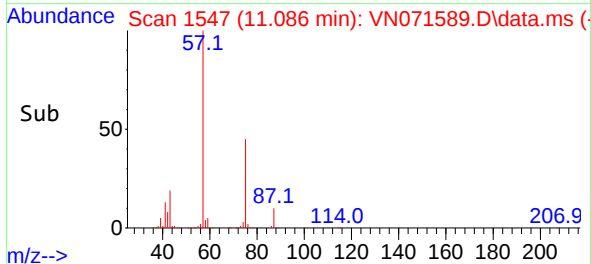
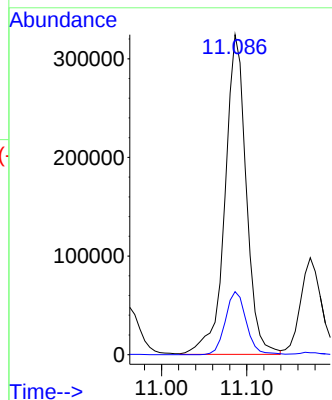
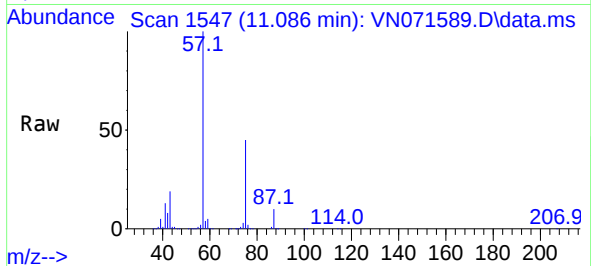




#59
2-Hexanone
Concen: 61.593 ug/l
RT: 11.086 min Scan# 11547
Delta R.T. 0.006 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

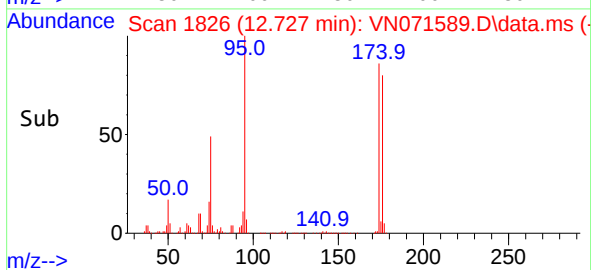
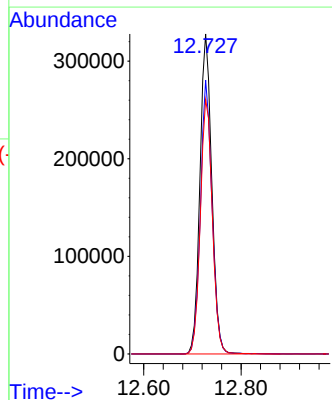
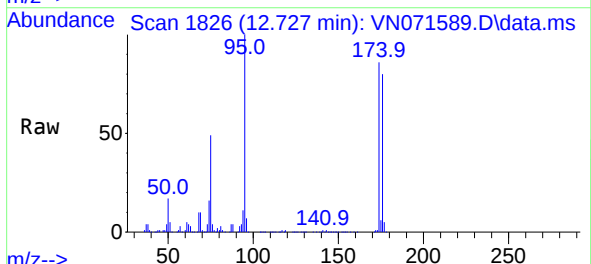
Instrument :
MSVOA_N
ClientSampleId :
PIT-11-STOCKPILE-GRAB-1

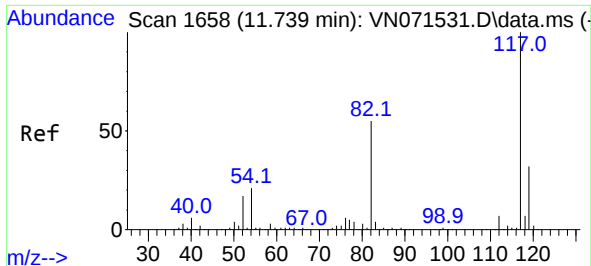
Tgt Ion: 43 Resp: 562239
Ion Ratio Lower Upper
43 100
58 19.3 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 52.087 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

Tgt Ion: 95 Resp: 554013
Ion Ratio Lower Upper
95 100
174 83.8 0.0 167.6
176 80.6 0.0 163.4

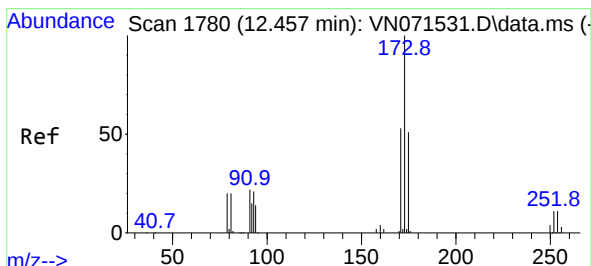
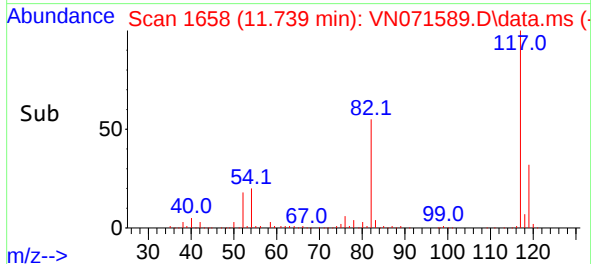
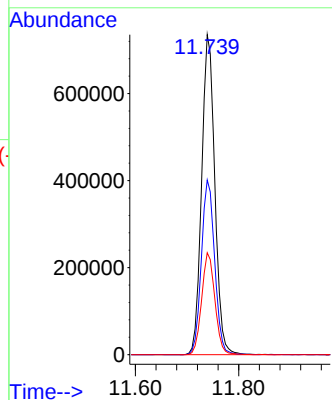
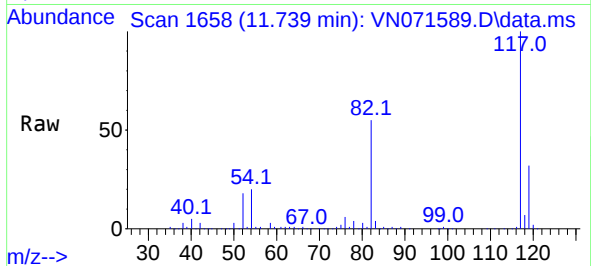




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

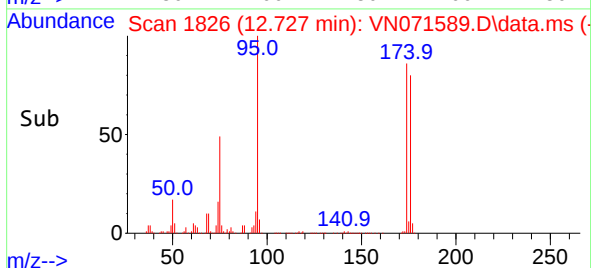
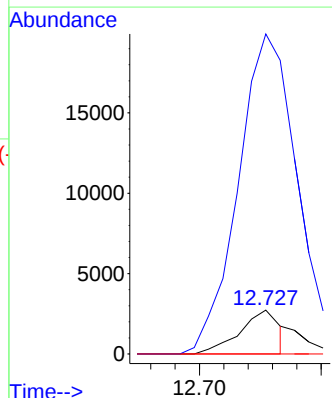
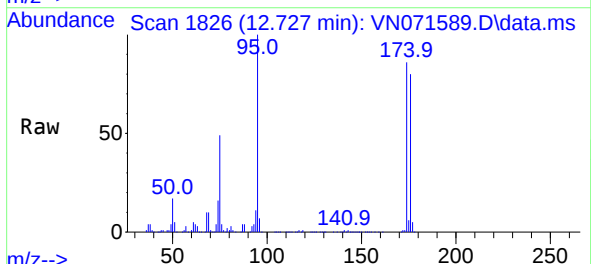
Instrument :
MSVOA_N
ClientSampleId :
PIT-11-STOCKPILE-GRAB-1

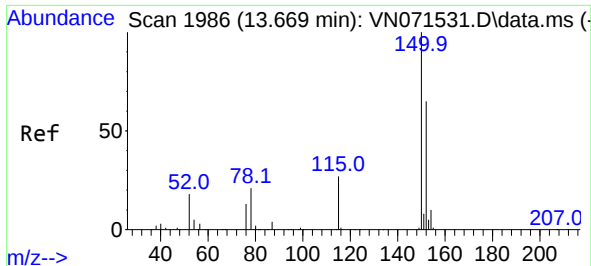
Tgt Ion:117 Resp: 1300547
Ion Ratio Lower Upper
117 100
82 54.6 44.2 66.2
119 31.8 25.4 38.0



#71
Bromoform
Concen: 0.402 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.270 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

Tgt Ion:173 Resp: 3088
Ion Ratio Lower Upper
173 100
175 829.8 24.6 73.6#
254 0.0 0.1 0.1#

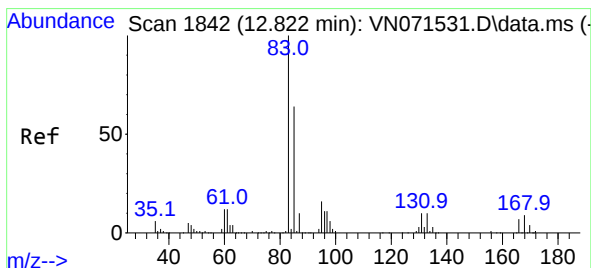
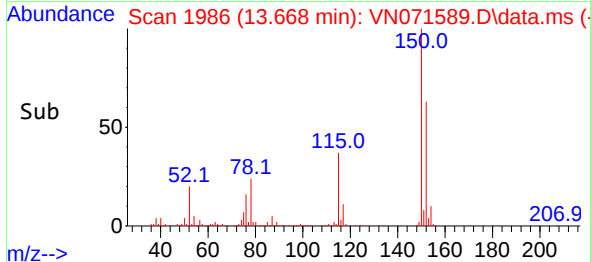
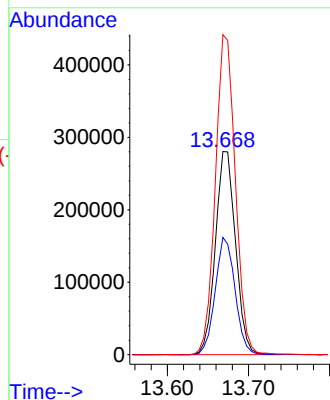
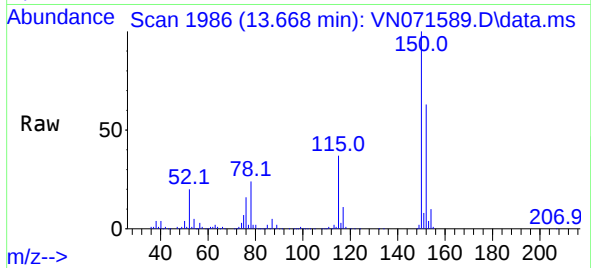




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.668 min Scan# 1986
 Delta R.T. -0.000 min
 Lab File: VN071589.D
 Acq: 26 Mar 2022 21:51

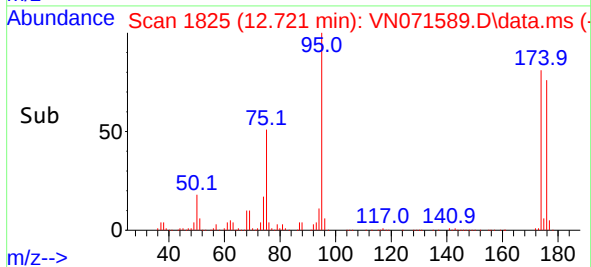
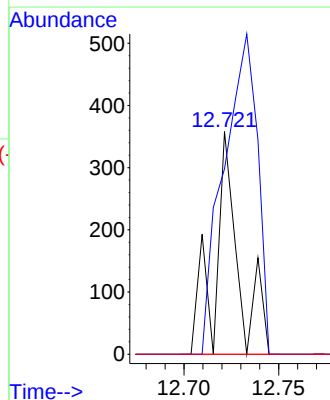
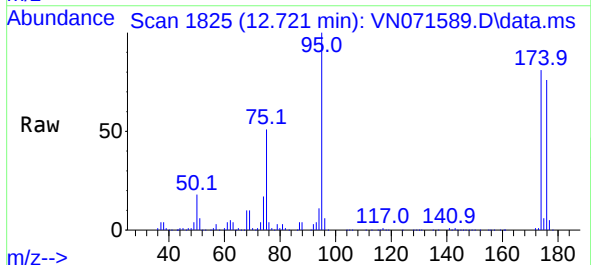
Instrument :
 MSVOA_N
 ClientSampleId :
 PIT-11-STOCKPILE-GRAB-1

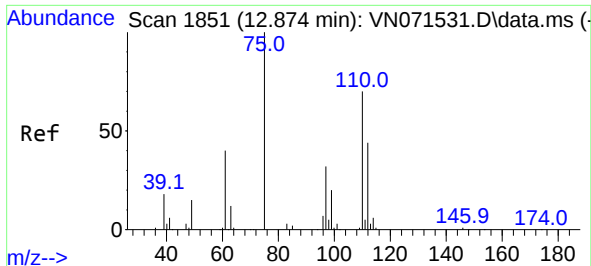
Tgt Ion:152 Resp: 486026
 Ion Ratio Lower Upper
 152 100
 115 56.7 28.9 86.7
 150 156.0 0.0 356.2



#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.721 min Scan# 1825
 Delta R.T. -0.101 min
 Lab File: VN071589.D
 Acq: 26 Mar 2022 21:51

Tgt Ion: 83 Resp: 310
 Ion Ratio Lower Upper
 83 100
 131 205.5 5.3 15.9#
 85 0.0 32.3 96.9#

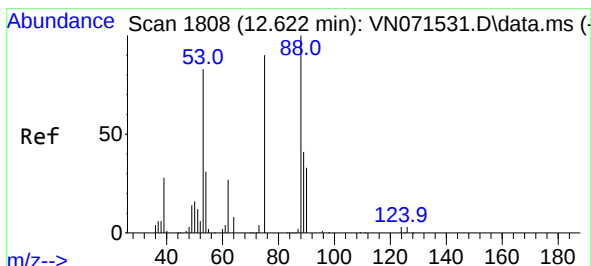
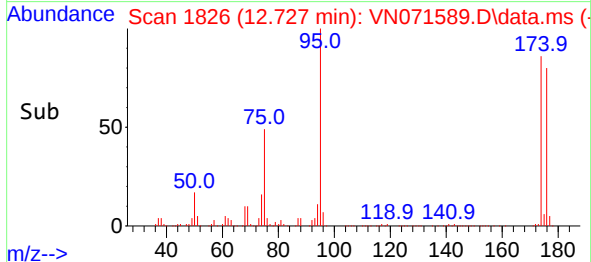
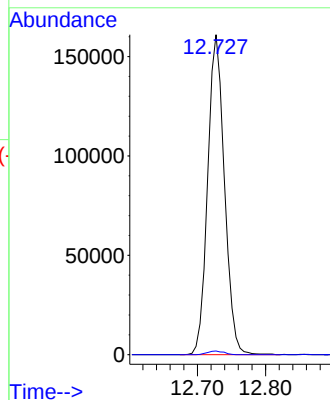
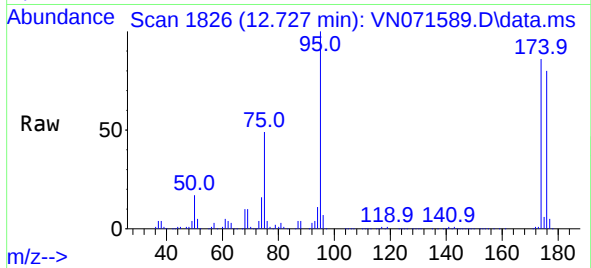




#76
1,2,3-Trichloropropane
Concen: 25.423 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

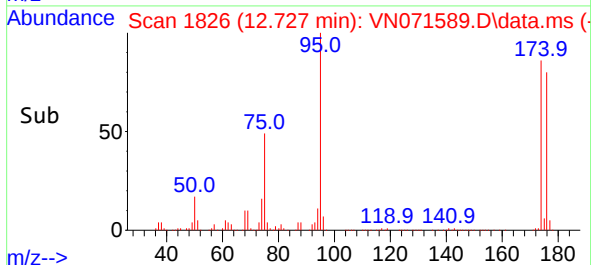
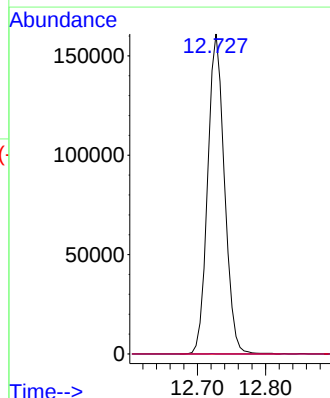
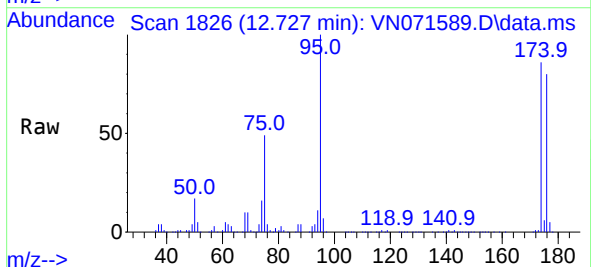
Instrument :
MSVOA_N
ClientSampleId :
PIT-11-STOCKPILE-GRAB-1

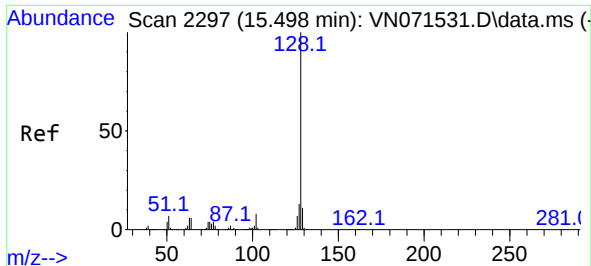
Tgt Ion: 75 Resp: 275531
Ion Ratio Lower Upper
75 100
77 1.1 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 68.065 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN071589.D
Acq: 26 Mar 2022 21:51

Tgt Ion: 75 Resp: 275531
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#





#95

Naphthalene

Concen: 3.357 ug/l

RT: 15.504 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN071589.D

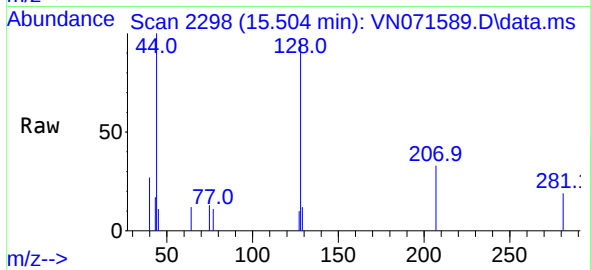
Acq: 26 Mar 2022 21:51

Instrument :

MSVOA_N

ClientSampleId :

PIT-11-STOCKPILE-GRAB-1



Tgt Ion:128 Resp: 3769

Ion Ratio Lower Upper

128 100

127 10.8 10.3 15.5

129 7.1 8.6 13.0#

