

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030322\
 Data File : VN071150.D
 Acq On : 03 Mar 2022 13:58
 Operator : JC\MD
 Sample : PB143059ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB143059ZHE#01

Quant Time: Mar 04 01:13:26 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021522W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 21 07:57:15 2022
 Response via : Initial Calibration

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

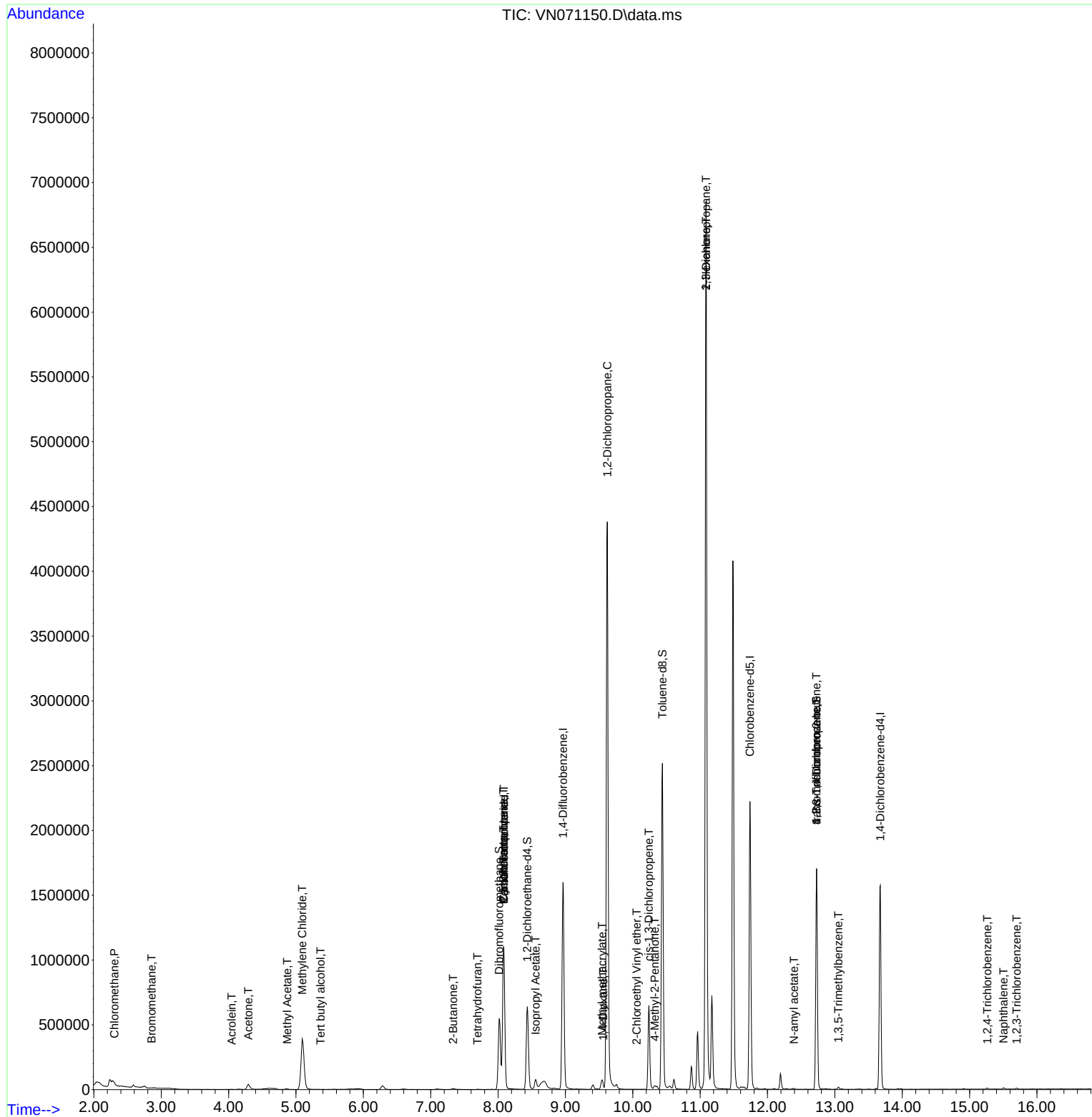
Internal Standards						
1) Pentafluorobenzene	8.086	168	871556	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1399172	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1277857	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.674	152	443068	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	525005	52.733	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 105.460%	
35) Dibromofluoromethane	8.016	113	408158	49.044	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 98.080%	
50) Toluene-d8	10.439	98	1746092	52.244	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 104.480%	
62) 4-Bromofluorobenzene	12.727	95	599443	50.178	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 100.360%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.304	50	4087	0.359	ug/l #	85
5) Bromomethane	2.857	94	1462	0.226	ug/l #	13
11) Tert butyl alcohol	5.363	59	481	0.265	ug/l #	71
13) Acrolein	4.045	56	711	0.439	ug/l	84
16) Acetone	4.293	43	68930	12.572	ug/l	91
18) Methyl Acetate	4.869	43	11603	0.368	ug/l	92
20) Methylene Chloride	5.092	84	302034	30.310	ug/l	92
25) 2-Butanone	7.333	43	13813	1.894	ug/l	95
29) Tetrahydrofuran	7.692	42	1484	0.314	ug/l #	74
31) Cyclohexane	8.081	56	18727	1.088	ug/l #	3
36) 1,1-Dichloropropene	8.081	75	68854	5.050	ug/l #	49
38) Carbon Tetrachloride	8.086	117	87066	6.481	ug/l #	16
43) Isopropyl Acetate	8.557	43	89688	3.891	ug/l #	88
45) 1,2-Dichloropropane	9.622	63	5818	0.563	ug/l #	44
48) Methyl methacrylate	9.545	41	21570	1.977	ug/l #	8
49) 1,4-Dioxane	9.563	88	62	0.320	ug/l #	1
51) 4-Methyl-2-Pentanone	10.327	43	20552	1.466	ug/l	99
54) cis-1,3-Dichloropropene	10.239	75	116854	7.122	ug/l #	60
57) 1,3-Dichloropropane	11.086	76	70012	4.080	ug/l #	43
58) 2-Chloroethyl Vinyl ether	10.057	63	54	31.815	ug/l #	45
59) 2-Hexanone	11.086	43	1126774	116.829	ug/l #	49
74) N-amyl acetate	12.392	43	4853	0.426	ug/l #	85
76) 1,2,3-Trichloropropane	12.727	75	307829	29.508	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.051	105	6542	0.226	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.727	75	307829	95.619	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.262	180	2921	2.343	ug/l	96
95) Naphthalene	15.504	128	9787	5.434	ug/l	99
96) 1,2,3-Trichlorobenzene	15.698	180	3028	2.898	ug/l	96

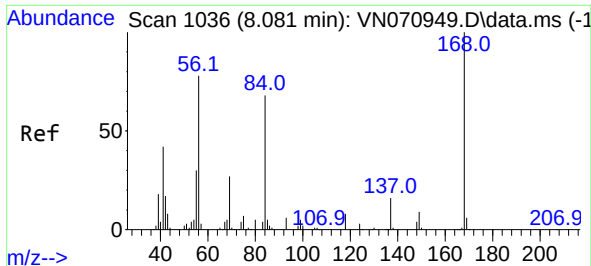
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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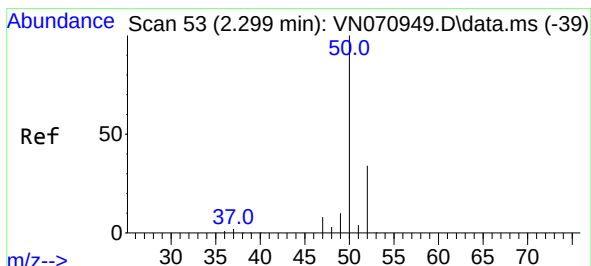
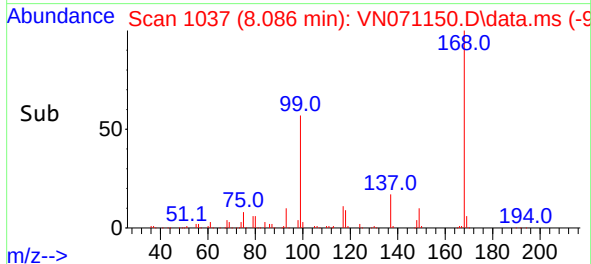
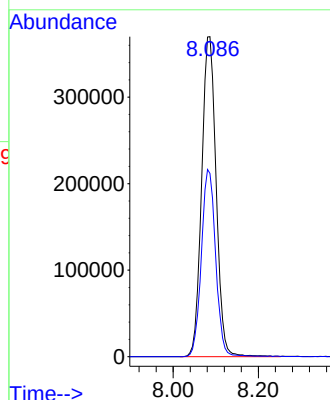
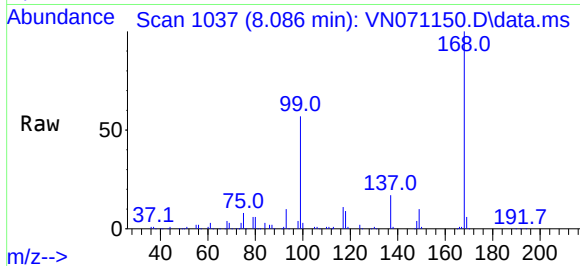




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

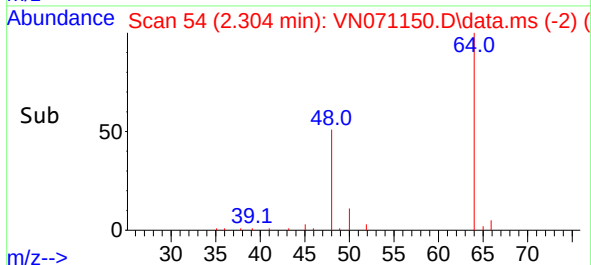
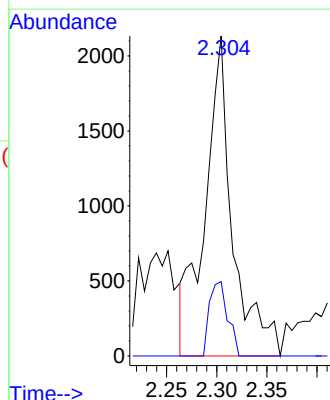
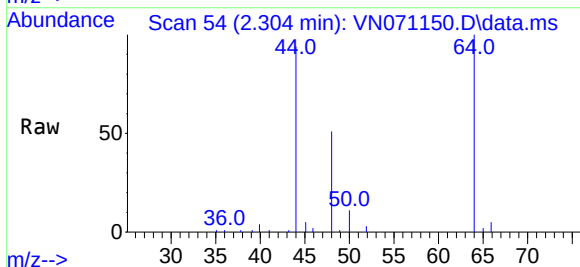
Instrument :
MSVOA_N
ClientSampleId :
PB143059ZHE#01

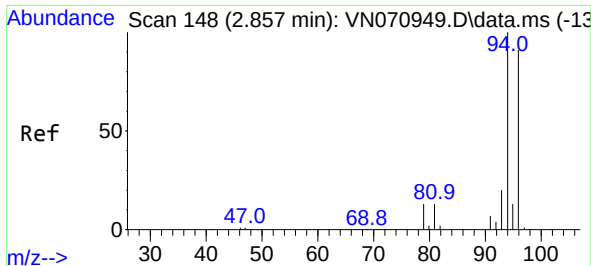
Tgt Ion:168 Resp: 871556
Ion Ratio Lower Upper
168 100
99 57.2 41.3 61.9



#3
Chloromethane
Concen: 0.359 ug/l
RT: 2.304 min Scan# 54
Delta R.T. 0.006 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

Tgt Ion: 50 Resp: 4087
Ion Ratio Lower Upper
50 100
52 23.3 25.4 38.0#

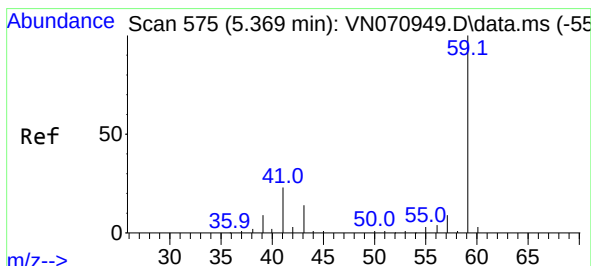
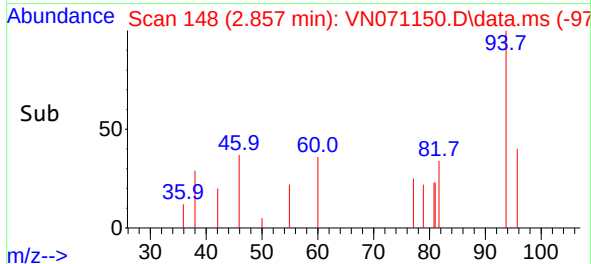
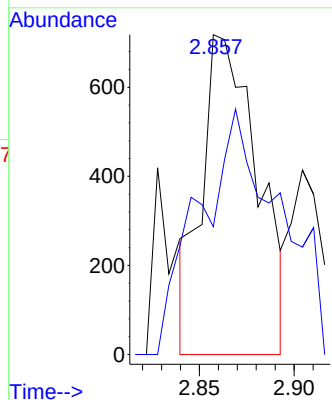
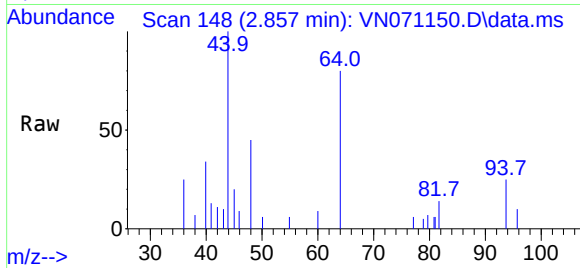




#5
Bromomethane
Concen: 0.226 ug/l
RT: 2.857 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

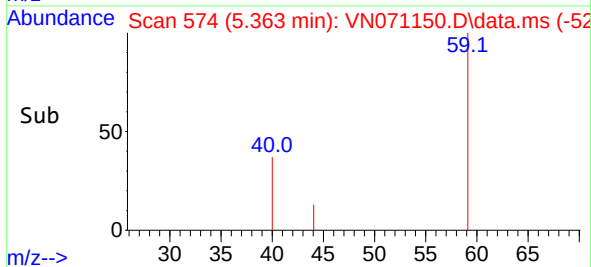
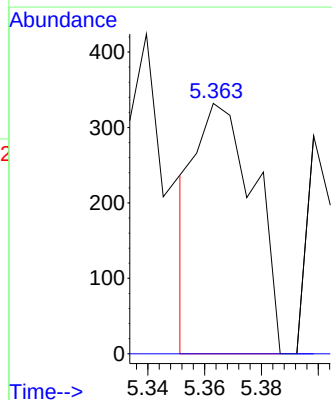
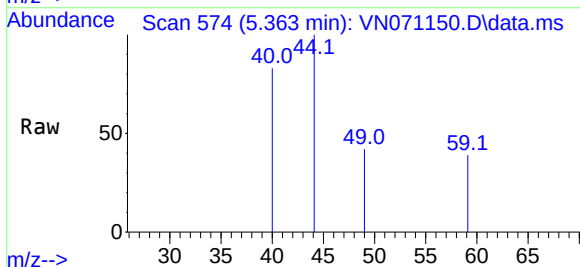
Instrument :
MSVOA_N
ClientSampleId :
PB143059ZHE#01

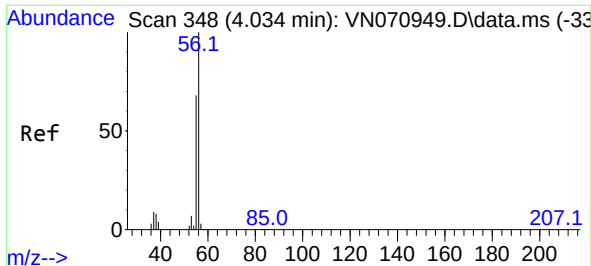
Tgt Ion: 94 Resp: 1462
Ion Ratio Lower Upper
94 100
96 9.1 73.8 110.8#



#11
Tert butyl alcohol
Concen: 0.265 ug/l
RT: 5.363 min Scan# 574
Delta R.T. -0.006 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

Tgt Ion: 59 Resp: 481
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

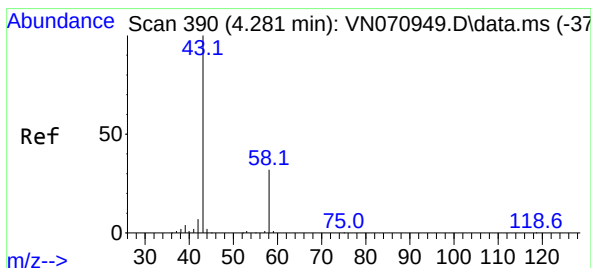
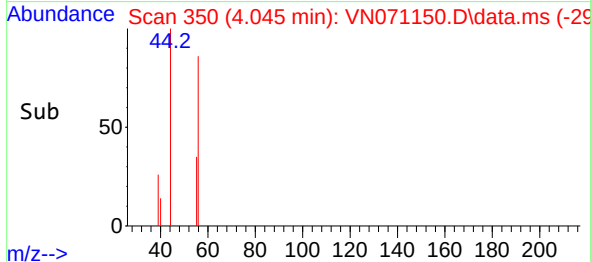
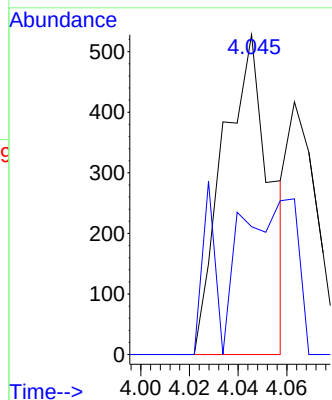
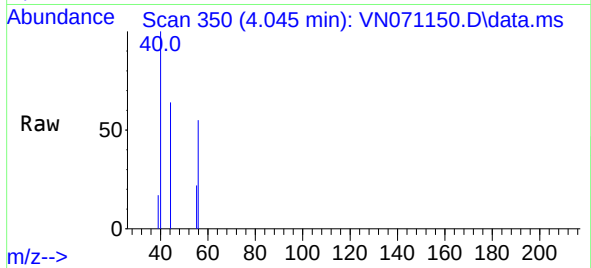




#13
Acrolein
Concen: 0.439 ug/l
RT: 4.045 min Scan# 311
Delta R.T. 0.011 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

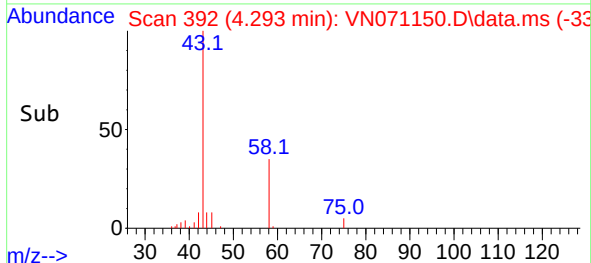
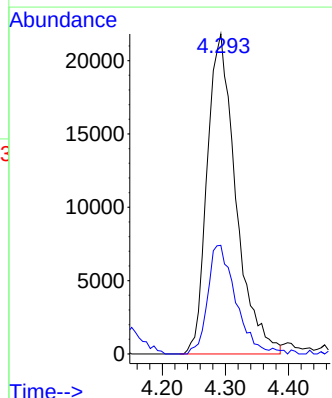
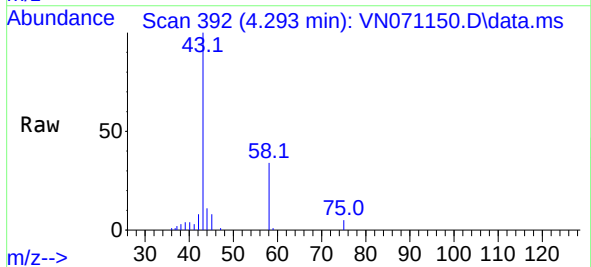
Instrument :
MSVOA_N
ClientSampleId :
PB143059ZHE#01

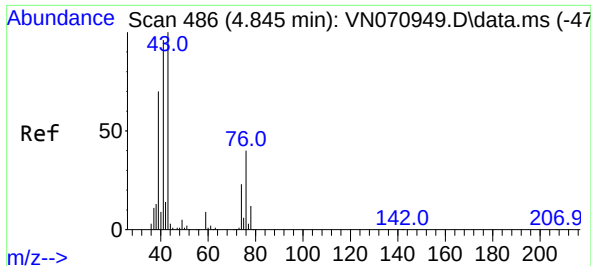
Tgt Ion: 56 Resp: 711
Ion Ratio Lower Upper
56 100
55 57.5 56.6 85.0



#16
Acetone
Concen: 12.572 ug/l
RT: 4.293 min Scan# 392
Delta R.T. 0.012 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

Tgt Ion: 43 Resp: 68930
Ion Ratio Lower Upper
43 100
58 34.0 23.1 34.7

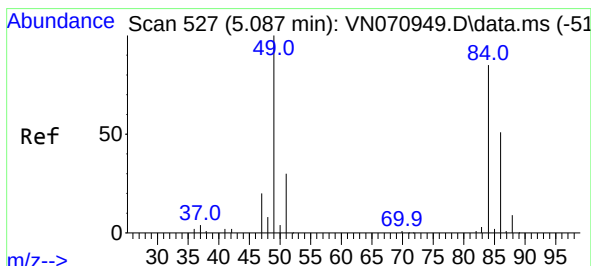
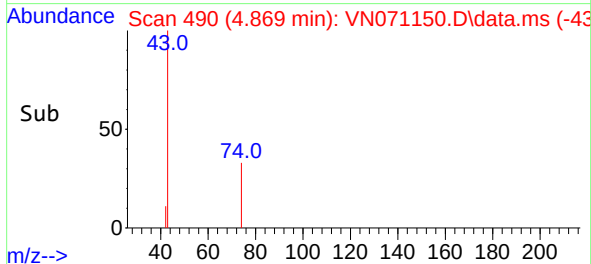
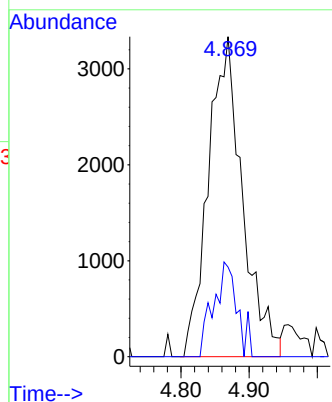
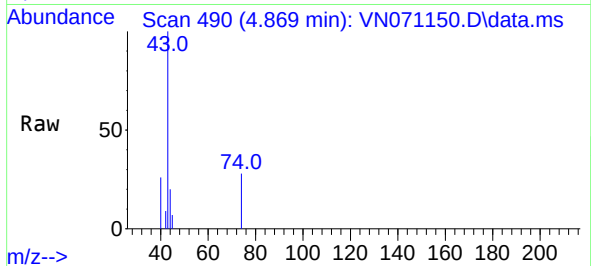




#18
Methyl Acetate
Concen: 0.368 ug/l
RT: 4.869 min Scan# 490
Delta R.T. 0.024 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

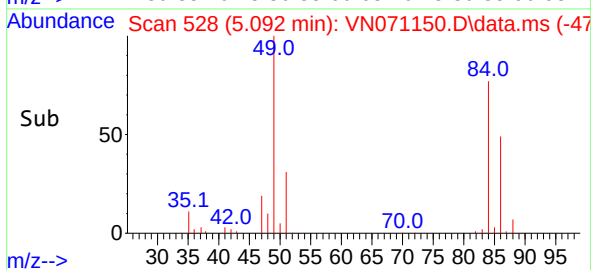
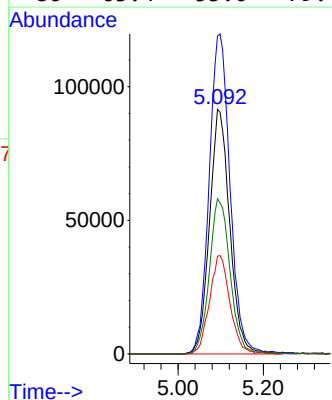
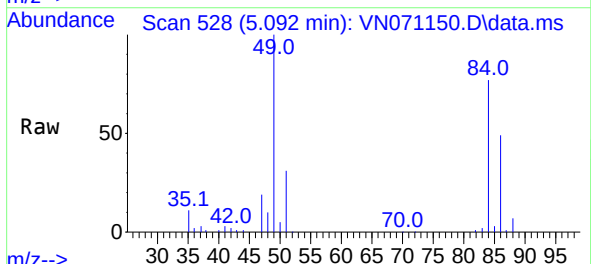
Instrument :
MSVOA_N
ClientSampleId :
PB143059ZHE#01

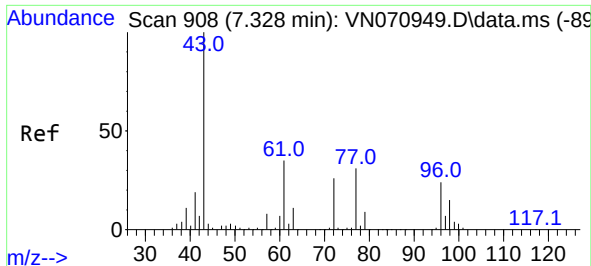
Tgt Ion: 43 Resp: 11603
Ion Ratio Lower Upper
43 100
74 20.4 19.4 29.2



#20
Methylene Chloride
Concen: 30.310 ug/l
RT: 5.092 min Scan# 528
Delta R.T. 0.006 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

Tgt Ion: 84 Resp: 302034
Ion Ratio Lower Upper
84 100
49 129.9 93.5 140.3
51 40.0 29.4 44.2
86 63.4 53.0 79.4





#25

2-Butanone

Concen: 1.894 ug/l

RT: 7.333 min Scan# 908

Delta R.T. 0.006 min

Lab File: VN071150.D

Acq: 03 Mar 2022 13:58

Instrument :

MSVOA_N

ClientSampleId :

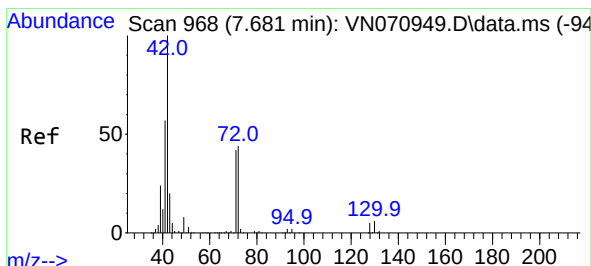
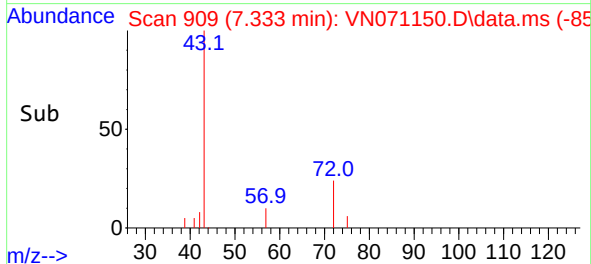
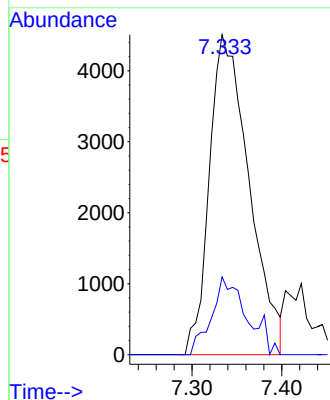
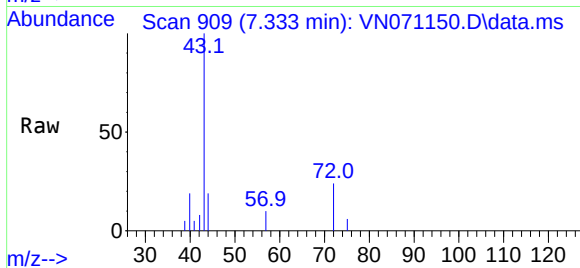
PB143059ZHE#01

Tgt Ion: 43 Resp: 13813

Ion Ratio Lower Upper

43 100

72 24.3 21.7 32.5



#29

Tetrahydrofuran

Concen: 0.314 ug/l

RT: 7.692 min Scan# 970

Delta R.T. 0.012 min

Lab File: VN071150.D

Acq: 03 Mar 2022 13:58

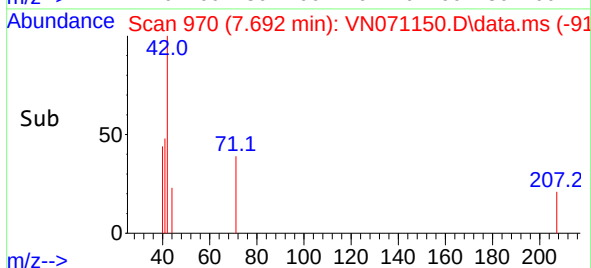
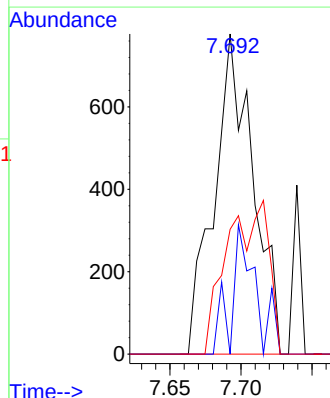
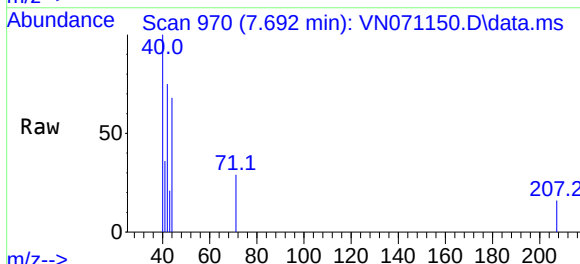
Tgt Ion: 42 Resp: 1484

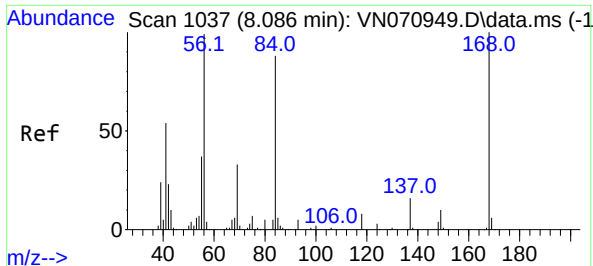
Ion Ratio Lower Upper

42 100

72 25.3 36.3 54.5#

71 29.6 34.7 52.1#





#31

Cyclohexane

Concen: 1.088 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.006 min

Lab File: VN071150.D

Acq: 03 Mar 2022 13:58

Instrument :

MSVOA_N

ClientSampleId :

PB143059ZHE#01

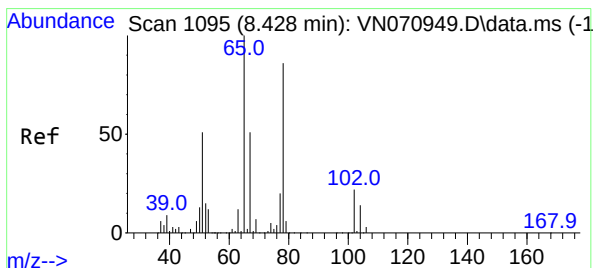
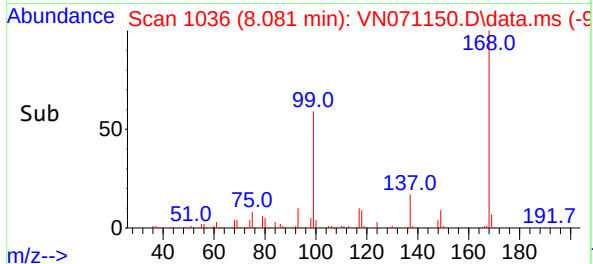
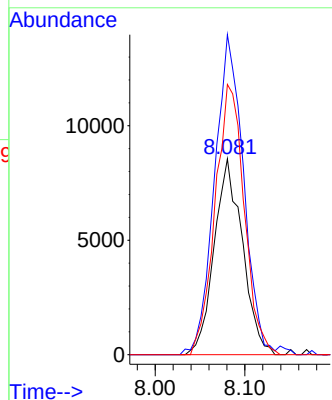
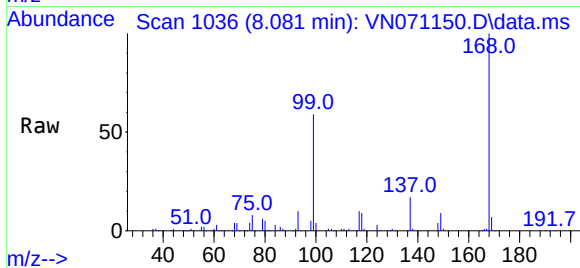
Tgt Ion: 56 Resp: 18727

Ion Ratio Lower Upper

56 100

69 163.4 27.1 40.7#

84 138.0 73.4 110.0#



#33

1,2-Dichloroethane-d4

Concen: 52.733 ug/l

RT: 8.433 min Scan# 1096

Delta R.T. 0.006 min

Lab File: VN071150.D

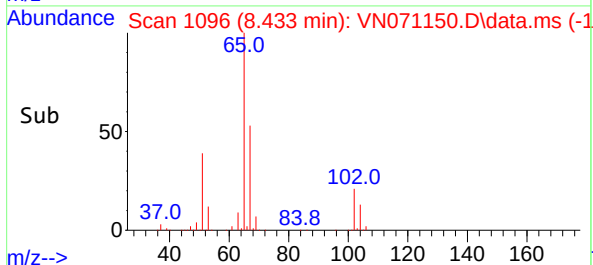
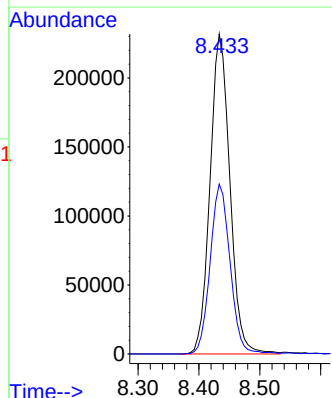
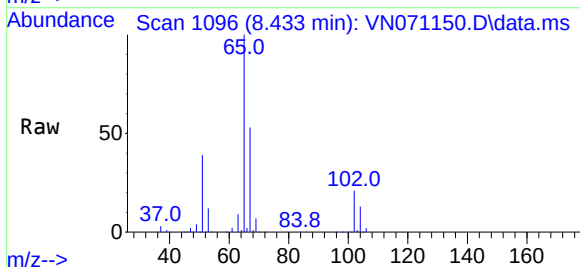
Acq: 03 Mar 2022 13:58

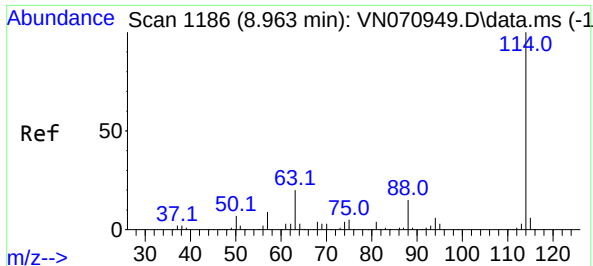
Tgt Ion: 65 Resp: 525005

Ion Ratio Lower Upper

65 100

67 53.2 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. -0.000 min

Lab File: VN071150.D

Acq: 03 Mar 2022 13:58

Instrument :

MSVOA_N

ClientSampleId :

PB143059ZHE#01

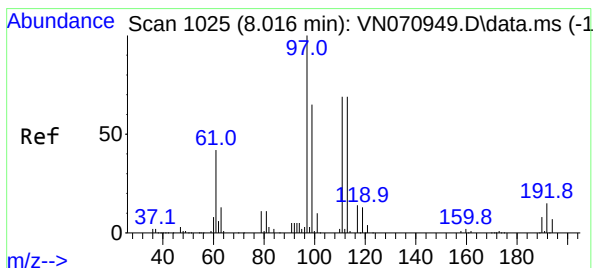
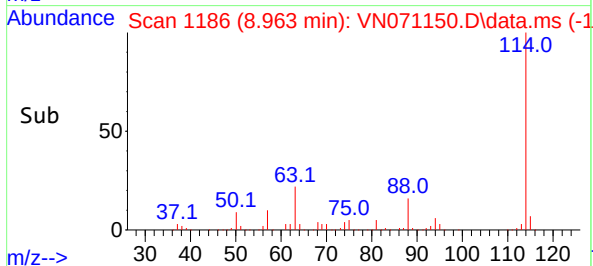
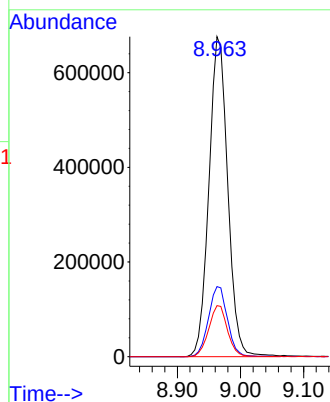
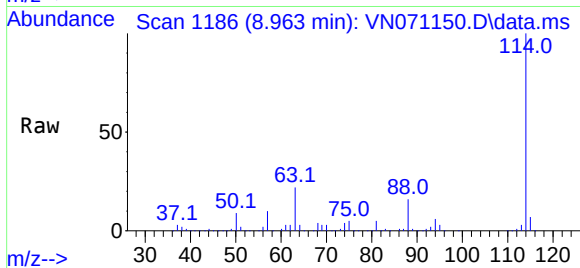
Tgt Ion:114 Resp: 1399172

Ion Ratio Lower Upper

114 100

63 21.9 0.0 37.8

88 16.0 0.0 27.4



#35

Dibromofluoromethane

Concen: 49.044 ug/l

RT: 8.016 min Scan# 1025

Delta R.T. -0.000 min

Lab File: VN071150.D

Acq: 03 Mar 2022 13:58

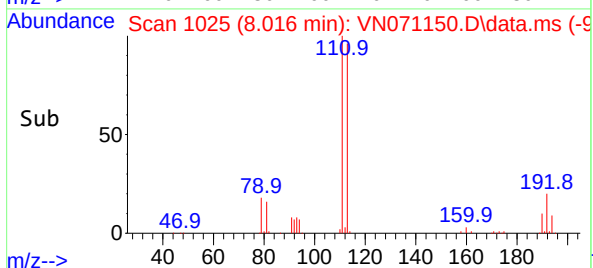
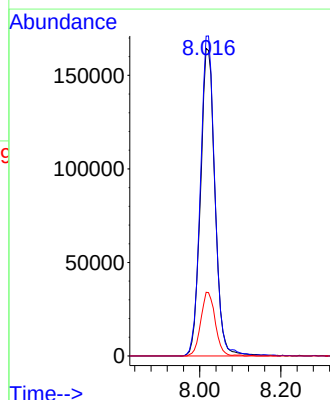
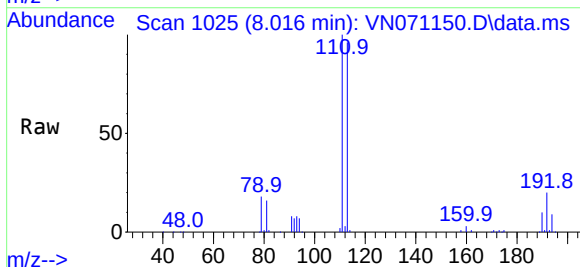
Tgt Ion:113 Resp: 408158

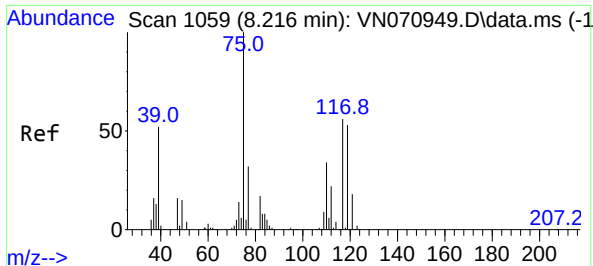
Ion Ratio Lower Upper

113 100

111 103.3 82.2 123.2

192 20.5 16.9 25.3





#36

1,1-Dichloropropene

Concen: 5.050 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN071150.D

Acq: 03 Mar 2022 13:58

Instrument :

MSVOA_N

ClientSampleId :

PB143059ZHE#01

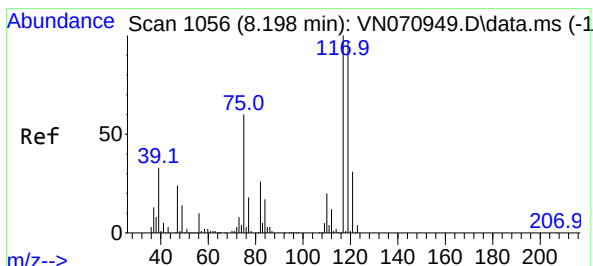
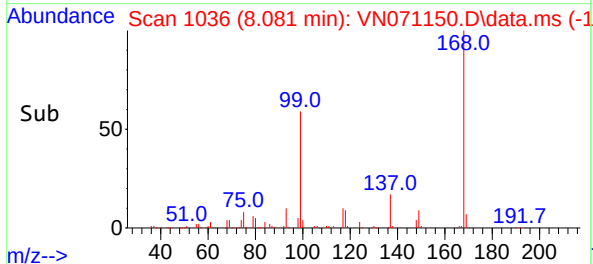
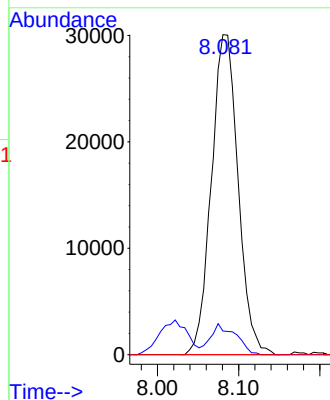
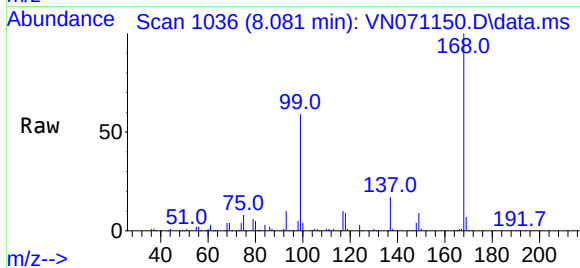
Tgt Ion: 75 Resp: 68854

Ion Ratio Lower Upper

75 100

110 9.2 18.4 55.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 6.481 ug/l

RT: 8.086 min Scan# 1037

Delta R.T. -0.112 min

Lab File: VN071150.D

Acq: 03 Mar 2022 13:58

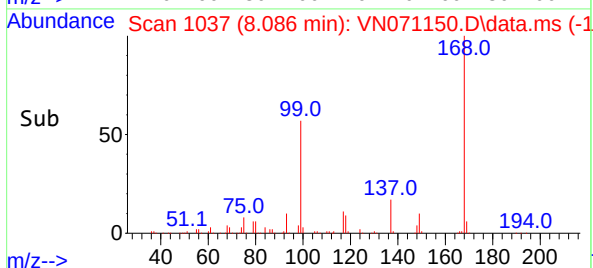
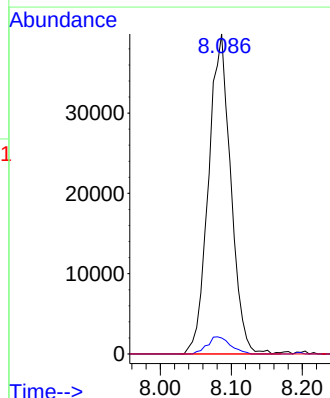
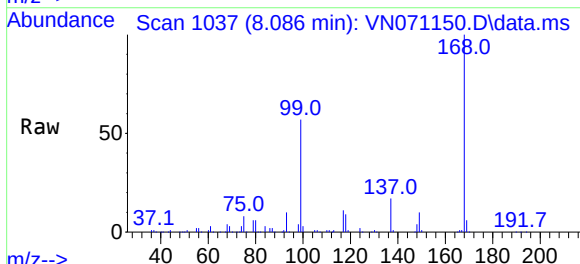
Tgt Ion: 117 Resp: 87066

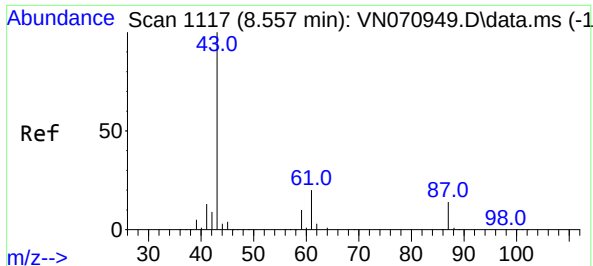
Ion Ratio Lower Upper

117 100

119 5.0 76.1 114.1#

121 0.0 24.2 36.2#

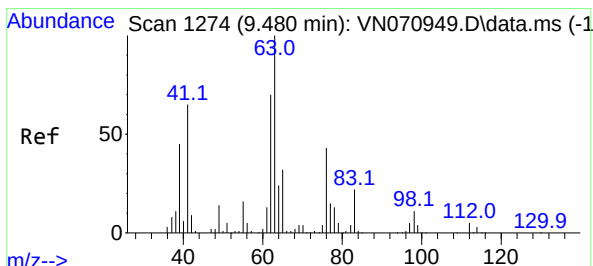
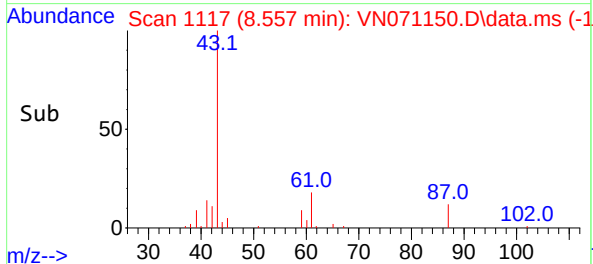
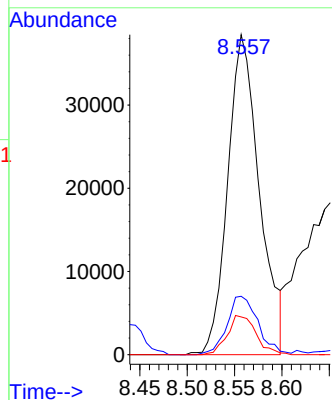
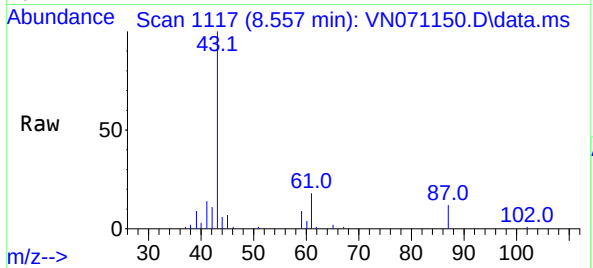




#43
Isopropyl Acetate
Concen: 3.891 ug/l
RT: 8.557 min Scan# 1117
Delta R.T. -0.000 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

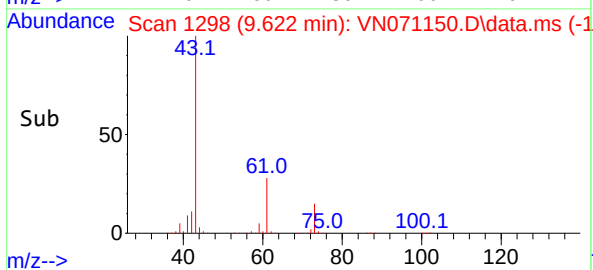
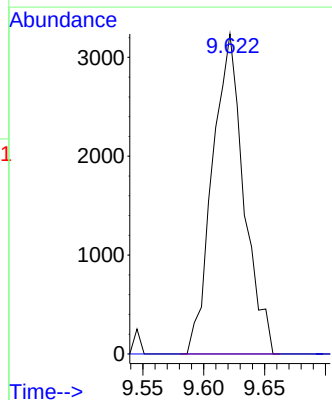
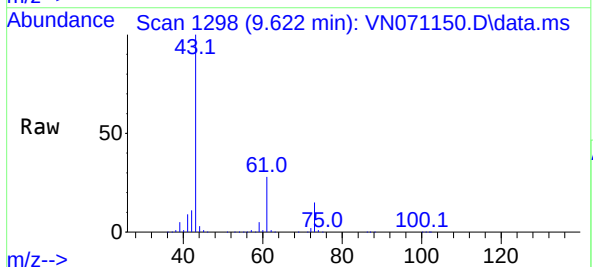
Instrument : MSVOA_N
ClientSampleId : PB143059ZHE#01

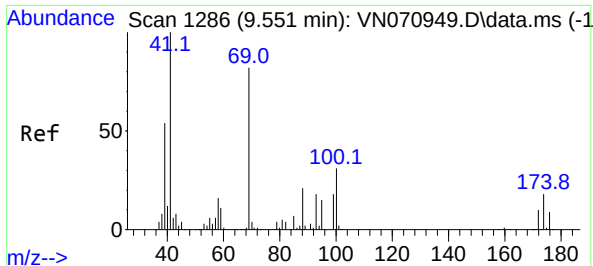
Tgt Ion: 43 Resp: 89688
Ion Ratio Lower Upper
43 100
61 17.8 20.4 30.6#
87 11.0 11.2 16.8#



#45
1,2-Dichloropropane
Concen: 0.563 ug/l
RT: 9.622 min Scan# 1298
Delta R.T. 0.141 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

Tgt Ion: 63 Resp: 5818
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#





#48

Methyl methacrylate

Concen: 1.977 ug/l

RT: 9.545 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN071150.D

Acq: 03 Mar 2022 13:58

Instrument :

MSVOA_N

ClientSampleId :

PB143059ZHE#01

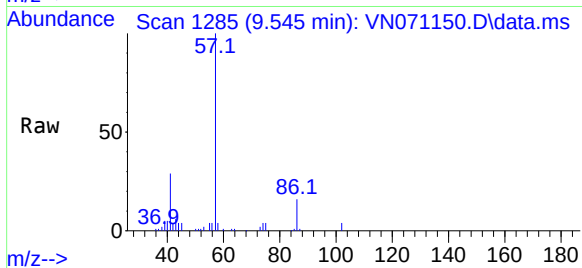
Tgt Ion: 41 Resp: 21570

Ion Ratio Lower Upper

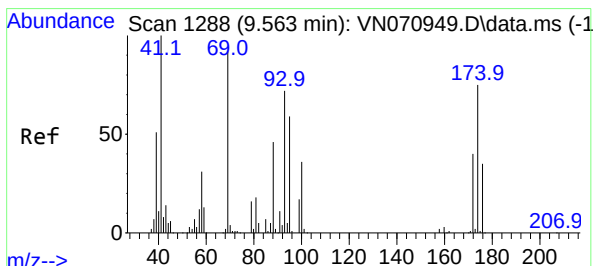
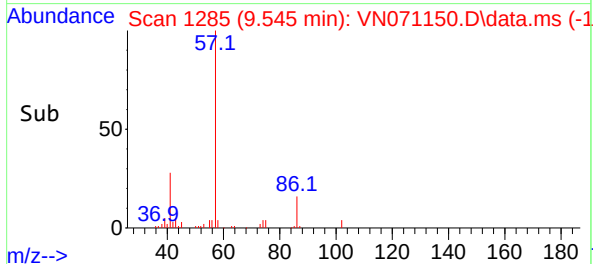
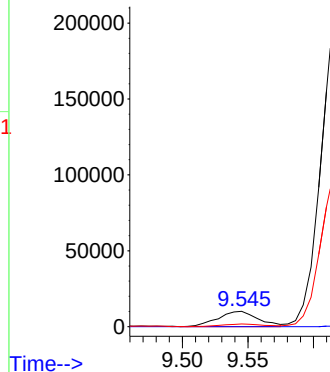
41 100

69 0.0 72.4 108.6#

39 0.0 58.4 87.6#



Abundance



#49

1,4-Dioxane

Concen: 0.320 ug/l

RT: 9.563 min Scan# 1288

Delta R.T. -0.000 min

Lab File: VN071150.D

Acq: 03 Mar 2022 13:58

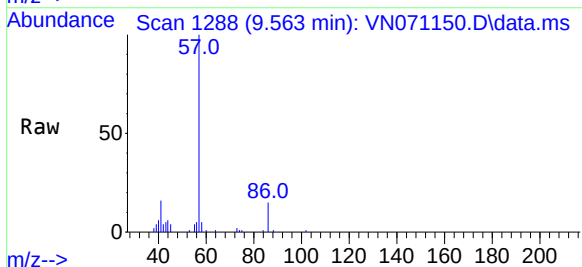
Tgt Ion: 88 Resp: 62

Ion Ratio Lower Upper

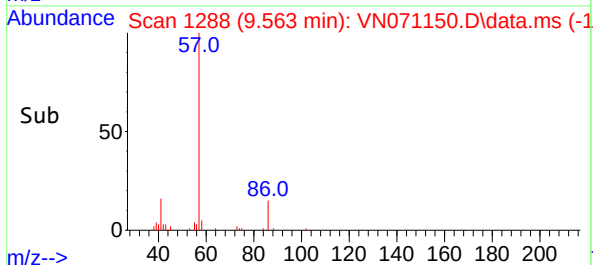
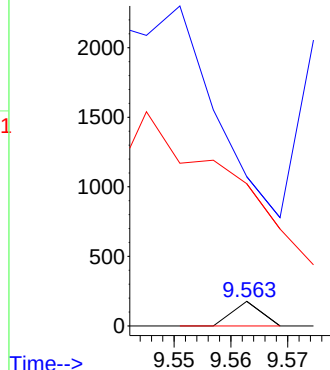
88 100

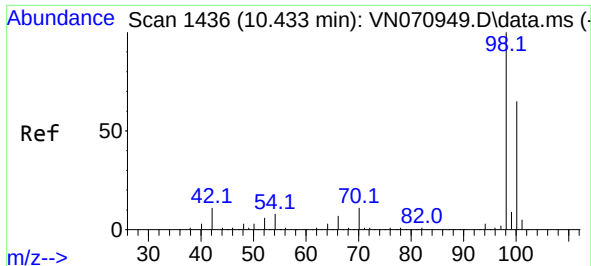
43 0.0 23.4 35.2#

58 5866.1 50.6 75.8#



Abundance

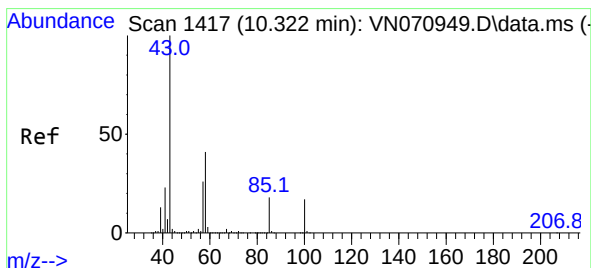
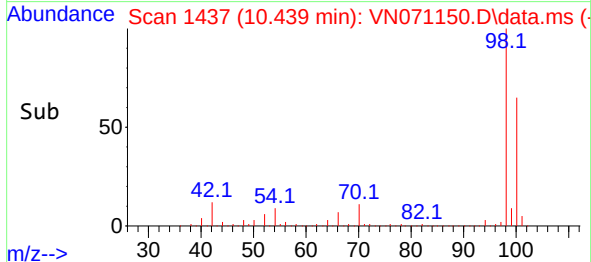
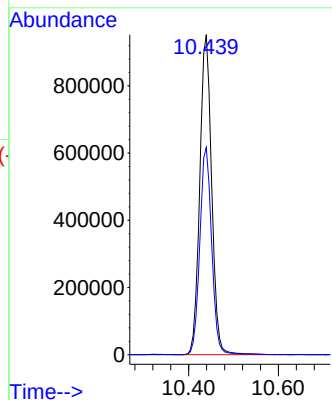
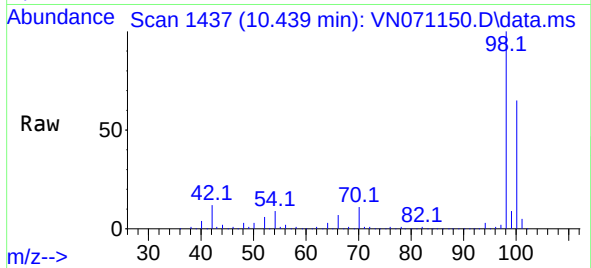




#50
Toluene-d8
Concen: 52.244 ug/l
RT: 10.439 min Scan# 1436
Delta R.T. 0.006 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

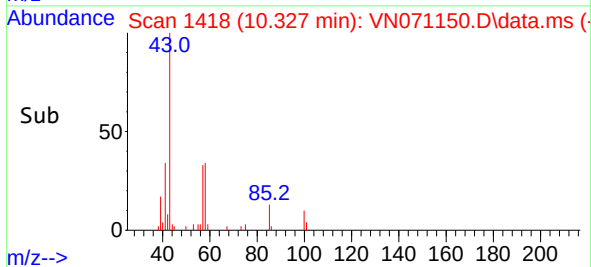
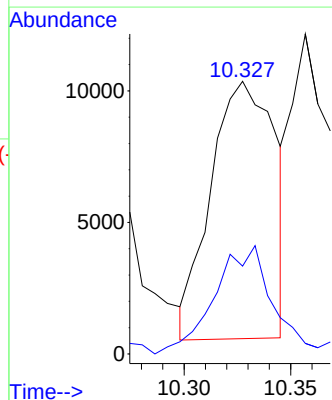
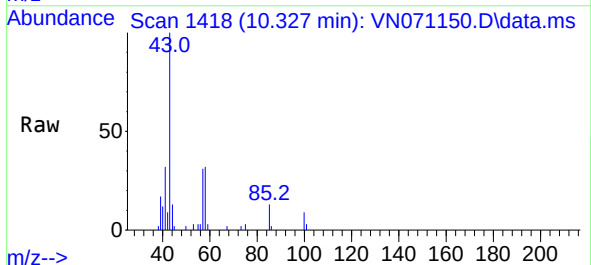
Instrument :
MSVOA_N
ClientSampleId :
PB143059ZHE#01

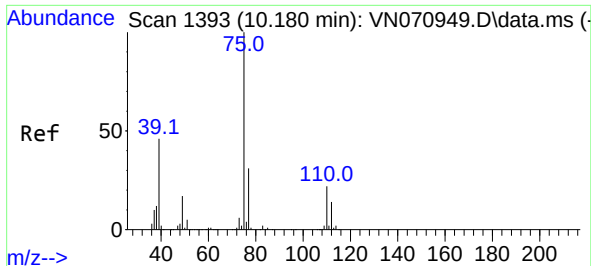
Tgt Ion: 98 Resp: 1746092
Ion Ratio Lower Upper
98 100
100 64.6 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 1.466 ug/l
RT: 10.327 min Scan# 1418
Delta R.T. 0.006 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

Tgt Ion: 43 Resp: 20552
Ion Ratio Lower Upper
43 100
58 38.5 30.4 45.6

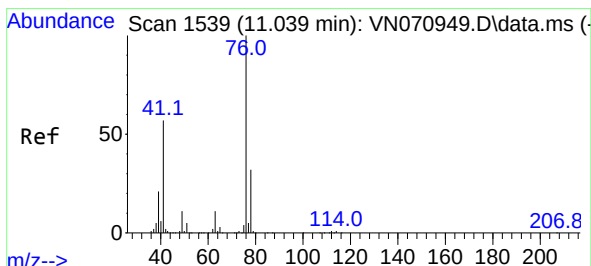
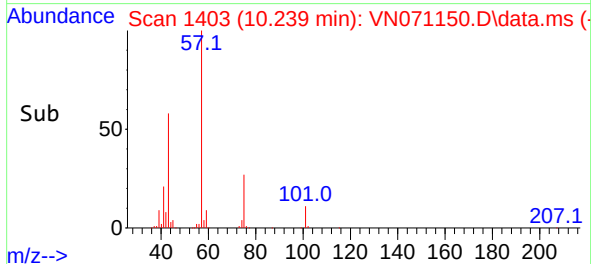
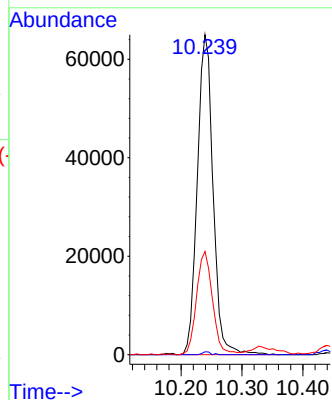
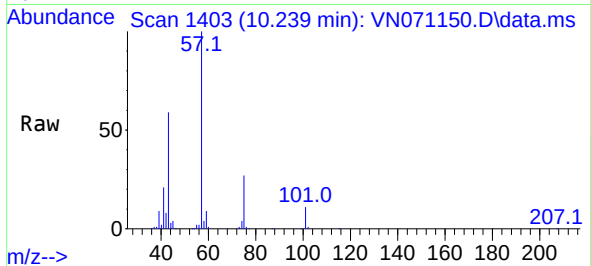




#54
cis-1,3-Dichloropropene
Concen: 7.122 ug/l
RT: 10.239 min Scan# 1403
Delta R.T. 0.059 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

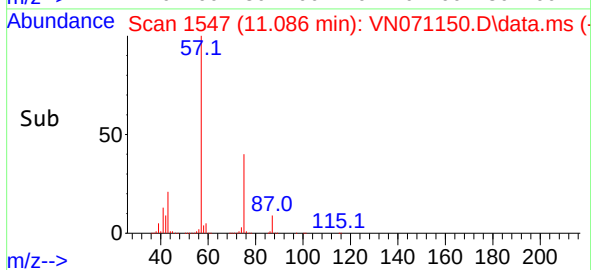
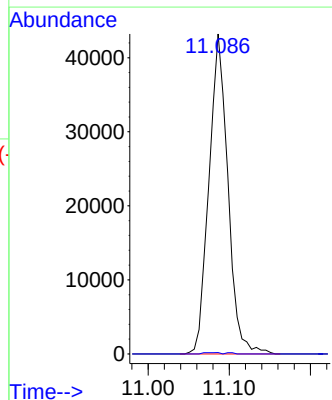
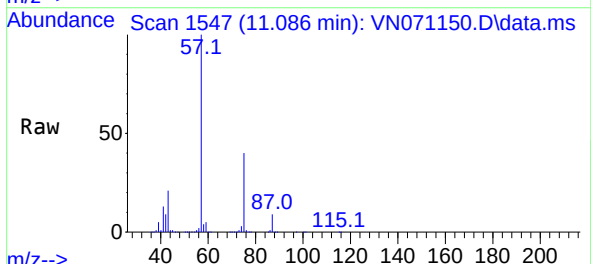
Instrument :
MSVOA_N
ClientSampleId :
PB143059ZHE#01

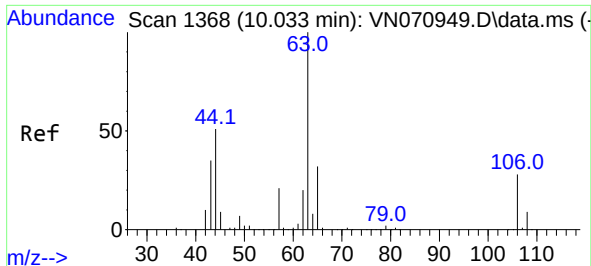
Tgt Ion: 75 Resp: 116854
Ion Ratio Lower Upper
75 100
77 0.9 26.4 39.6#
39 32.3 42.5 63.7#



#57
1,3-Dichloropropane
Concen: 4.080 ug/l
RT: 11.086 min Scan# 1547
Delta R.T. 0.047 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

Tgt Ion: 76 Resp: 70012
Ion Ratio Lower Upper
76 100
78 0.3 25.7 38.5#

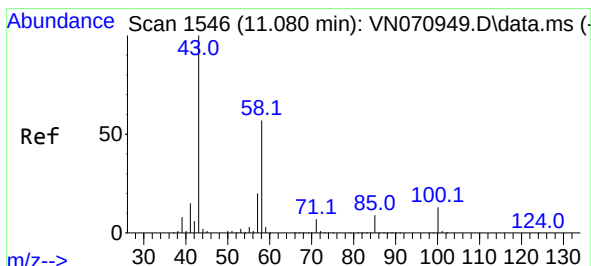
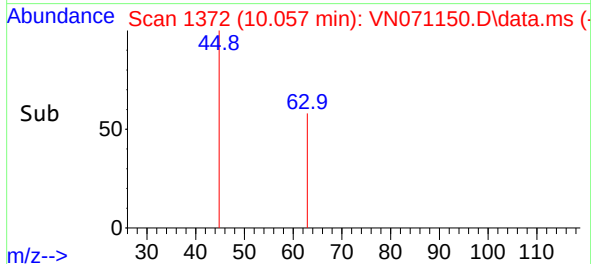
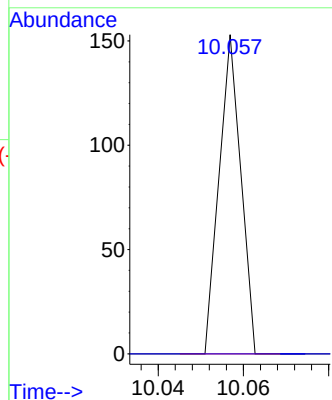
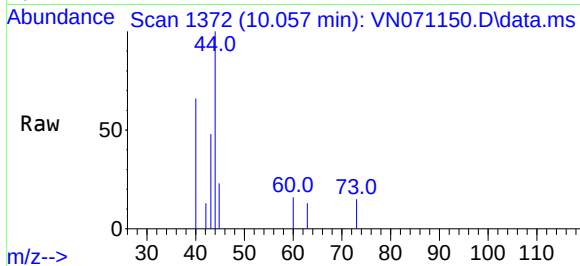




#58
2-Chloroethyl Vinyl ether
Concen: 31.815 ug/l
RT: 10.057 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

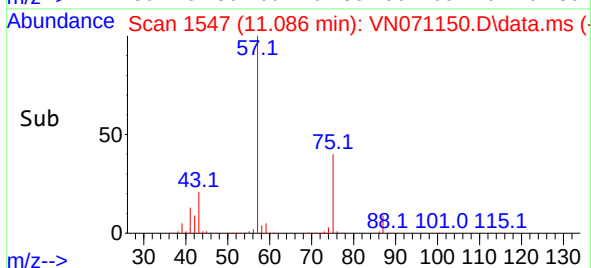
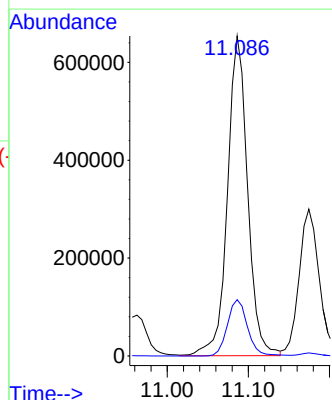
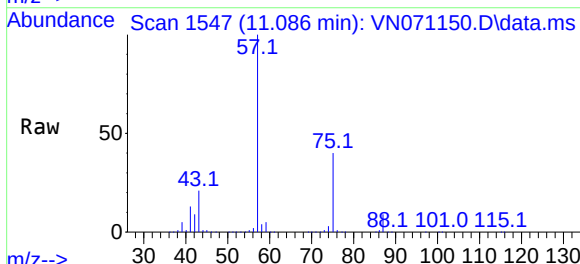
Instrument :
MSVOA_N
ClientSampleId :
PB143059ZHE#01

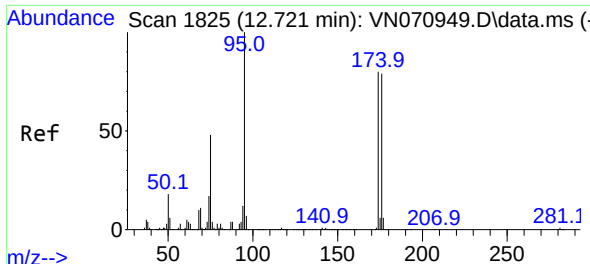
Tgt Ion: 63 Resp: 54
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



#59
2-Hexanone
Concen: 116.829 ug/l
RT: 11.086 min Scan# 1547
Delta R.T. 0.006 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

Tgt Ion: 43 Resp: 1126774
Ion Ratio Lower Upper
43 100
58 17.6 26.9 80.7#

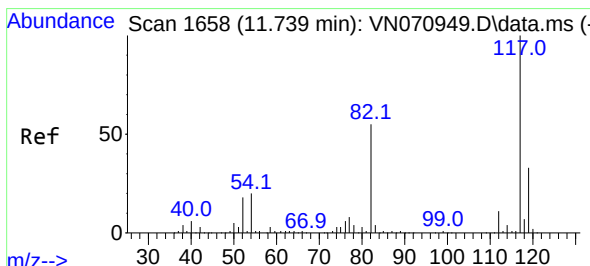
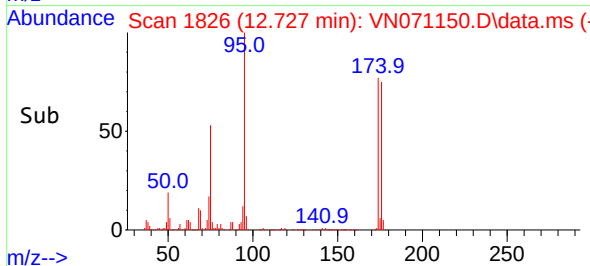
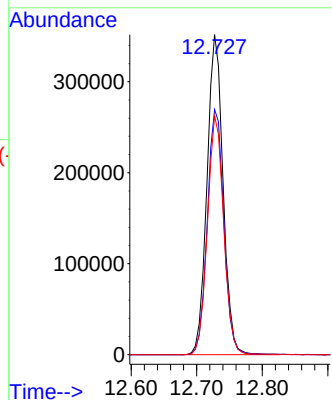
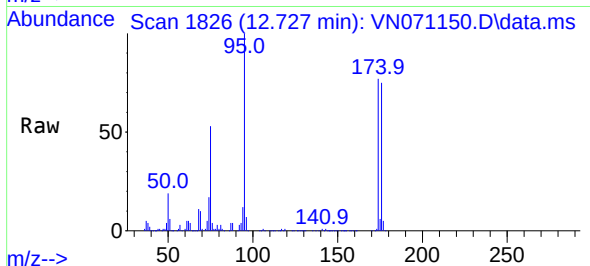




#62
4-Bromofluorobenzene
Concen: 50.178 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

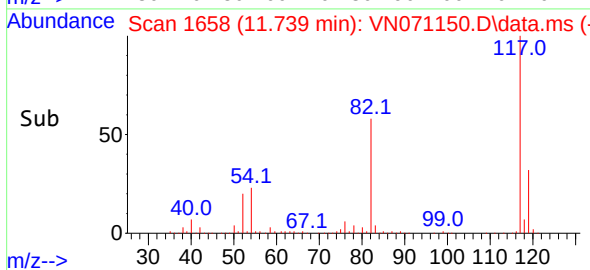
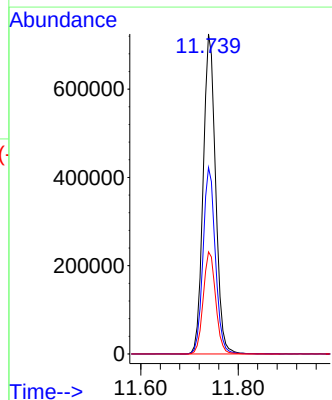
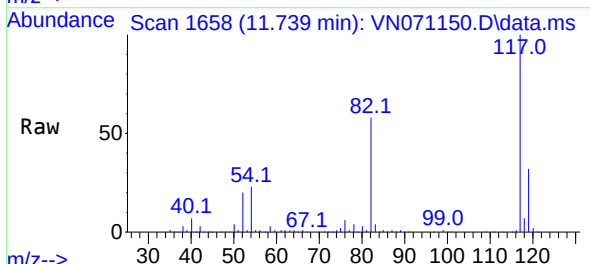
Instrument :
MSVOA_N
ClientSampleId :
PB143059ZHE#01

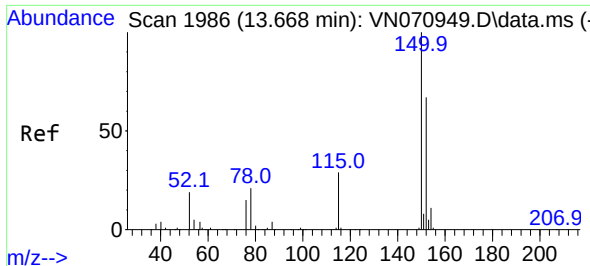
Tgt Ion: 95 Resp: 599443
Ion Ratio Lower Upper
95 100
174 78.9 0.0 187.2
176 75.4 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

Tgt Ion: 117 Resp: 1277857
Ion Ratio Lower Upper
117 100
82 58.2 42.4 63.6
119 31.9 25.4 38.2

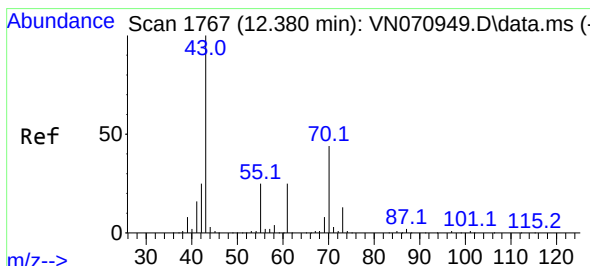
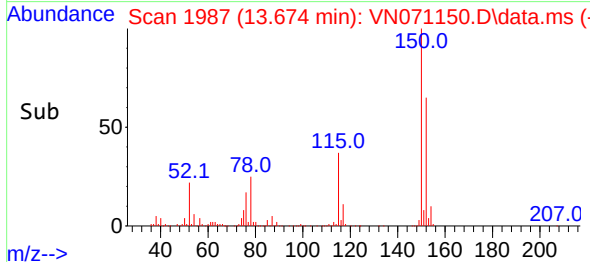
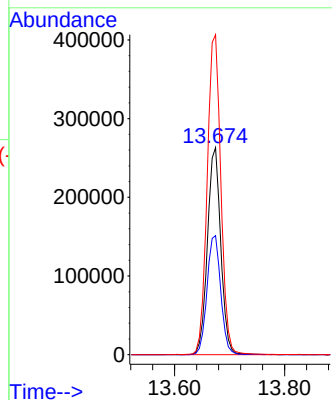
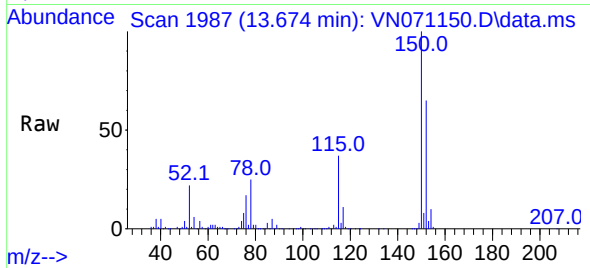




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.674 min Scan# 1987
Delta R.T. 0.006 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

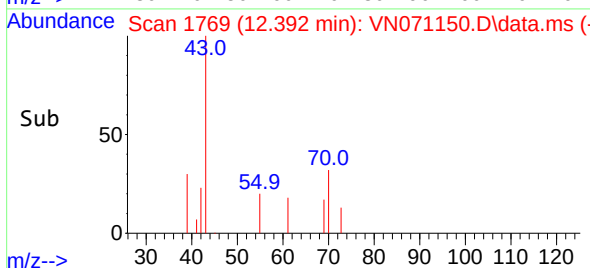
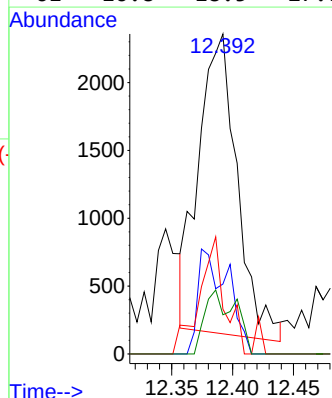
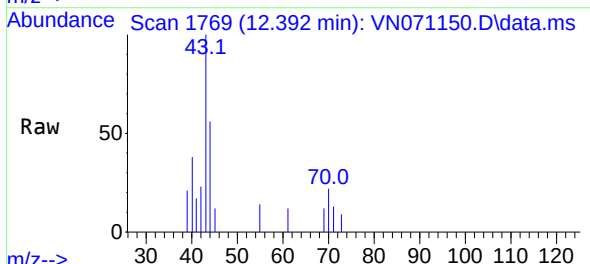
Instrument :
MSVOA_N
ClientSampleId :
PB143059ZHE#01

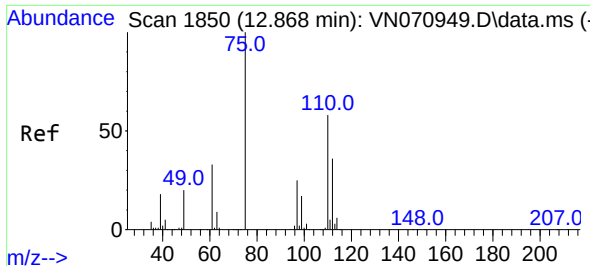
Tgt Ion:152 Resp: 443068
Ion Ratio Lower Upper
152 100
115 59.2 27.5 82.5
150 157.7 0.0 344.4



#74
N-ethyl acetate
Concen: 0.426 ug/l
RT: 12.392 min Scan# 1769
Delta R.T. 0.012 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

Tgt Ion: 43 Resp: 4853
Ion Ratio Lower Upper
43 100
70 27.3 33.4 50.0#
55 26.0 19.3 28.9
61 16.8 18.5 27.7#

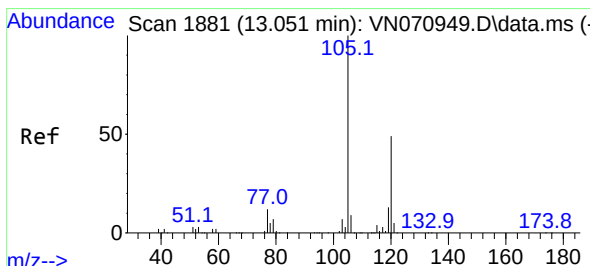
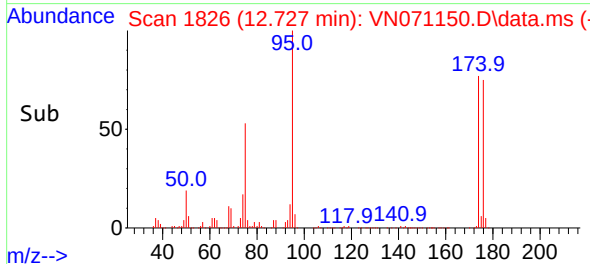
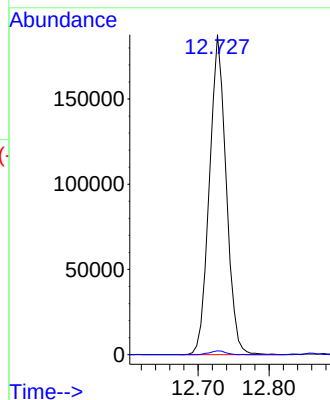
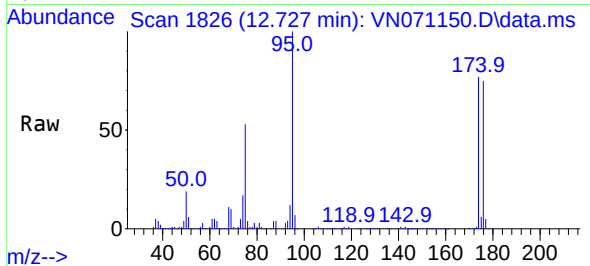




#76
1,2,3-Trichloropropane
Concen: 29.508 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.141 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

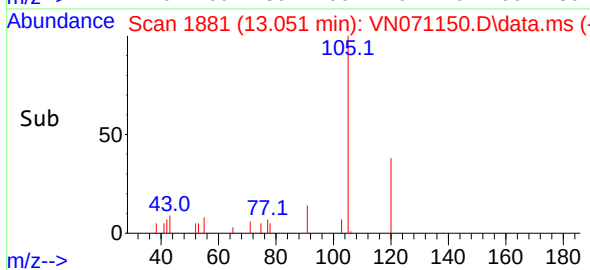
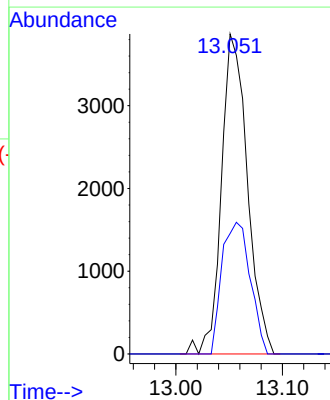
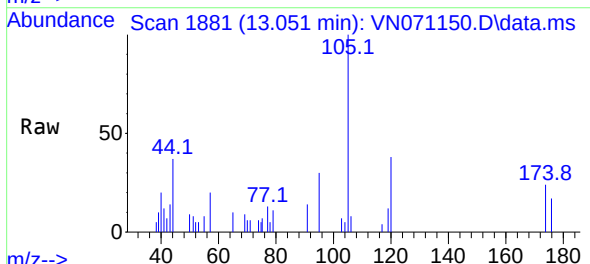
Instrument :
MSVOA_N
ClientSampleId :
PB143059ZHE#01

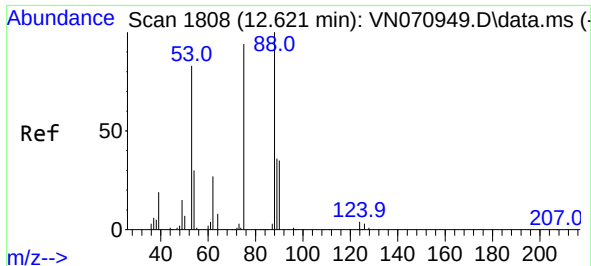
Tgt Ion: 75 Resp: 307829
Ion Ratio Lower Upper
75 100
77 1.2 82.6 247.8#



#80
1,3,5-Trimethylbenzene
Concen: 0.226 ug/l
RT: 13.051 min Scan# 1881
Delta R.T. -0.000 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

Tgt Ion: 105 Resp: 6542
Ion Ratio Lower Upper
105 100
120 44.9 24.6 73.6

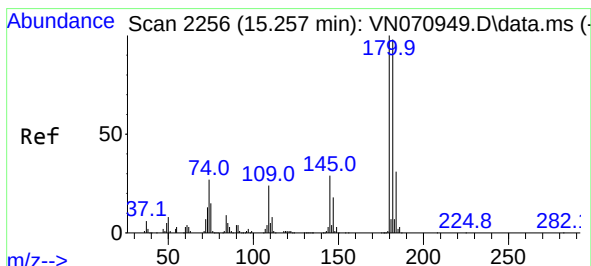
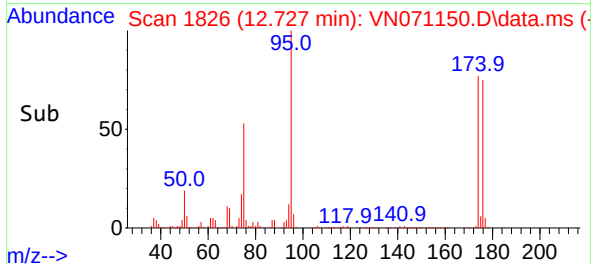
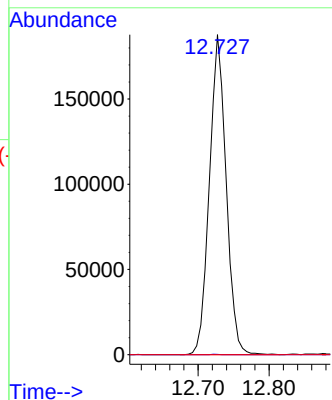
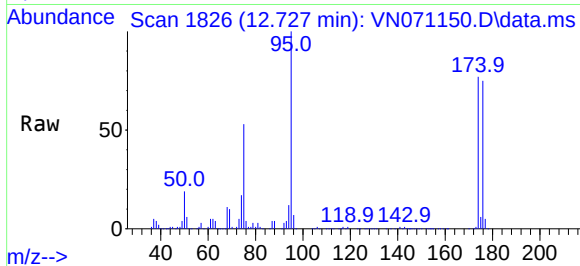




#81
trans-1,4-Dichloro-2-butene
Concen: 95.619 ug/l
RT: 12.727 min Scan# 1808
Delta R.T. 0.106 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

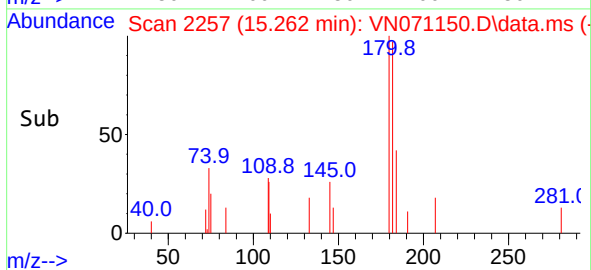
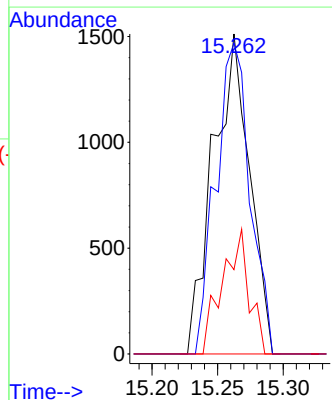
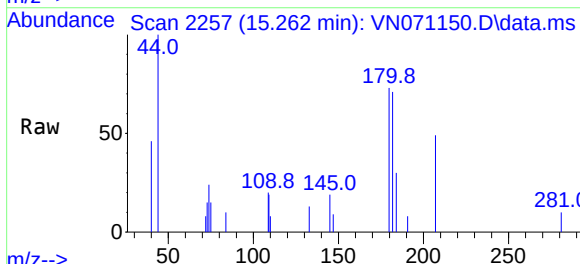
Instrument :
MSVOA_N
ClientSampleId :
PB143059ZHE#01

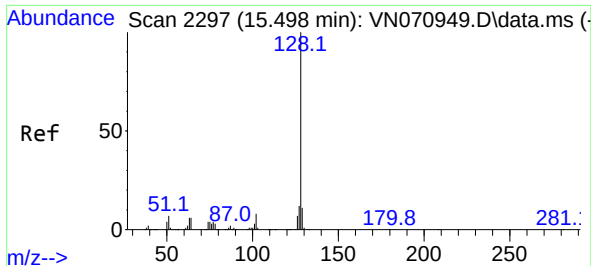
Tgt Ion: 75 Resp: 307829
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



#93
1,2,4-Trichlorobenzene
Concen: 2.343 ug/l
RT: 15.262 min Scan# 2257
Delta R.T. 0.005 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

Tgt Ion:180 Resp: 2921
Ion Ratio Lower Upper
180 100
182 91.2 48.3 144.9
145 28.6 14.5 43.5

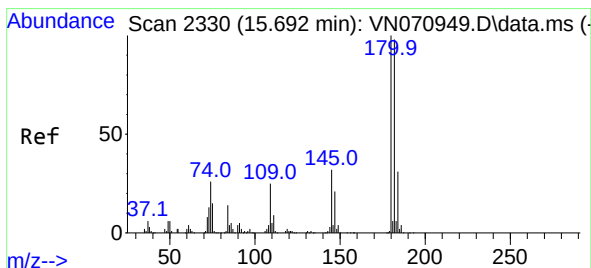
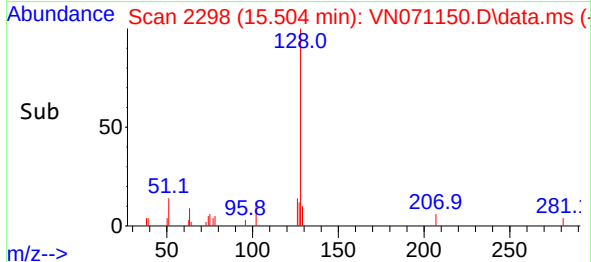
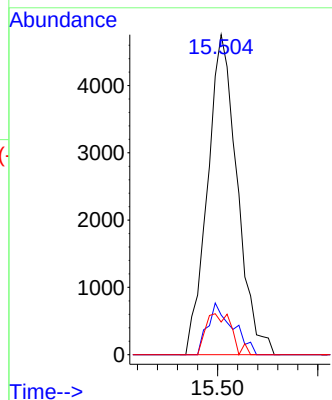
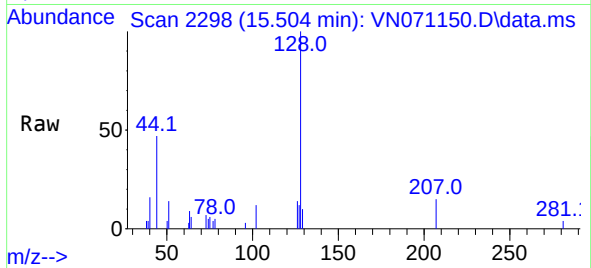




#95
Naphthalene
Concen: 5.434 ug/l
RT: 15.504 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

Instrument :
MSVOA_N
ClientSampleId :
PB143059ZHE#01

Tgt Ion:128 Resp: 9787
Ion Ratio Lower Upper
128 100
127 13.6 10.5 15.7
129 11.2 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 2.898 ug/l
RT: 15.698 min Scan# 2331
Delta R.T. 0.006 min
Lab File: VN071150.D
Acq: 03 Mar 2022 13:58

Tgt Ion:180 Resp: 3028
Ion Ratio Lower Upper
180 100
182 91.2 47.4 142.2
145 28.4 15.0 45.1

