

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051622\
 Data File : VN072524.D
 Acq On : 17 May 2022 00:36
 Operator : JC\MD
 Sample : N2880-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Quant Time: May 17 07:23:13 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N051622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 17 06:34:50 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 05/17/2022
 Supervised By :Mahesh Dadoda 05/17/2022

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

Internal Standards						
1) Bromochloromethane	7.175	128	22919m	30.000	ug/l	-0.48
28) 1,4-Difluorobenzene	8.716	114	128864	30.000	ug/l	-0.25
57) Chlorobenzene-d5	11.686	117	116460	30.000	ug/l	-0.05
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.098	65	82522	31.998	ug/l	-0.34
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.667%			
60) 4-Bromofluorobenzene	12.698	95	56632	24.905	ug/l	-0.03
Spiked Amount 30.000	Range 63 - 112		Recovery = 83.000%			
63) Toluene-d8	10.422	98	328	0.052	ug/l	-0.02
Spiked Amount 30.000	Range 91 - 112		Recovery = 0.167%#			
Target Compounds						
					Qvalue	
13) Acrolein	3.640	56	2202	5.947	ug/l #	1
15) Acetone	4.181	58	138	0.529	ug/l	100
23) tert-Butyl Alcohol	5.734	59	812	1.862	ug/l #	100
25) Chloroform	7.369	83	1357	0.385	ug/l	98
35) Methacrylonitrile	7.228	41	317	0.202	ug/l #	34
36) 1,2-Dichloroethane	8.710	62	5187	1.527	ug/l #	77
42) Vinyl Acetate	6.434	43	41096	8.220	ug/l #	74
44) Isopropyl Acetate	8.557	43	3004	0.647	ug/l #	50
46) Methyl methacrylate	9.575	41	815	0.371	ug/l #	32
48) t-1,3-Dichloropropene	10.710	75	831	0.262	ug/l #	43
52) 1,3-Dichloropropane	11.216	76	1173	0.347	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.316	63	323	0.417	ug/l #	1
56) Bromoform	12.698	173	391	0.220	ug/l #	29
58) 4-Methyl-2-Pentanone	10.316	43	2189	0.798	ug/l #	8
59) 2-Hexanone	11.016	43	4661	2.312	ug/l	93
75) 2-Chlorotoluene	13.080	91	1253	0.201	ug/l	98
77) t-1,4-Dichloro-2-butene	12.704	75	31668	38.024	ug/l #	8
78) 4-Chlorotoluene	13.080	91	1253	0.215	ug/l	98
82) p-Isopropyltoluene	13.598	119	1471	0.203	ug/l	94
83) 1,3-Dichlorobenzene	13.974	146	784	0.217	ug/l	77
84) 1,4-Dichlorobenzene	13.974	146	784	0.223	ug/l	75
85) n-Butylbenzene	13.927	91	2294	0.427	ug/l	94
87) 1,2-Dichlorobenzene	13.974	146	784	0.222	ug/l	76
89) 1,2,4-Trichlorobenzene	15.262	180	1157	0.723	ug/l	93
90) Hexachlorobutadiene	15.362	225	234	0.237	ug/l	71
91) Naphthalene	15.498	128	6641	8.740	ug/l #	87
92) 1,2,3-Trichlorobenzene	15.686	180	1667	1.023	ug/l	88

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

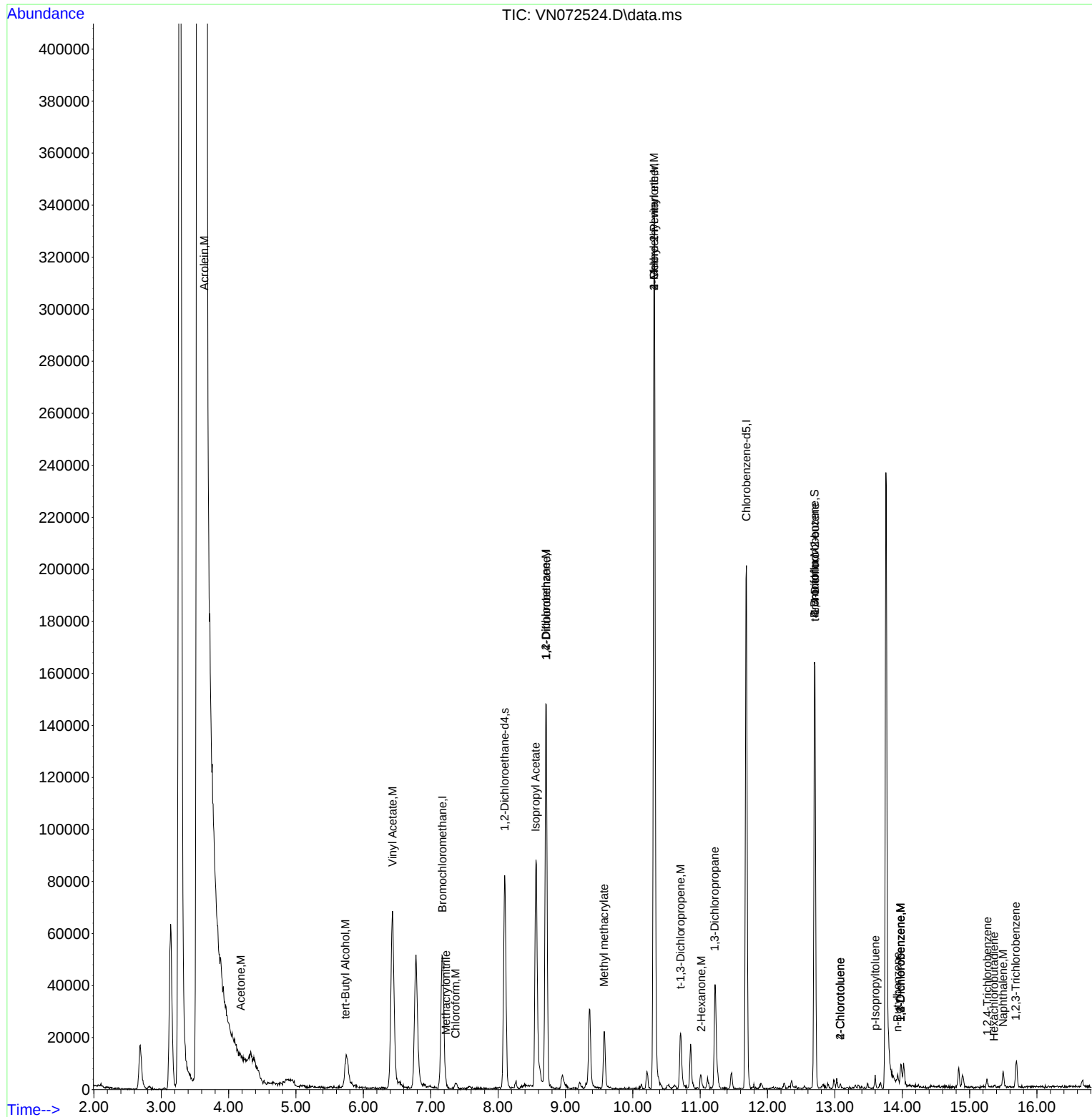
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051622\
Data File : VN072524.D
Acq On : 17 May 2022 00:36
Operator : JC\MD
Sample : N2880-01 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 31 Sample Multiplier: 1

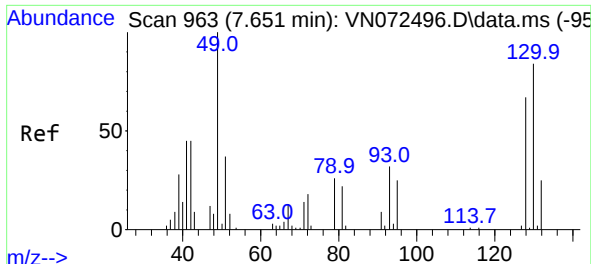
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/17/2022
Supervised By :Mahesh Dadoda 05/17/2022

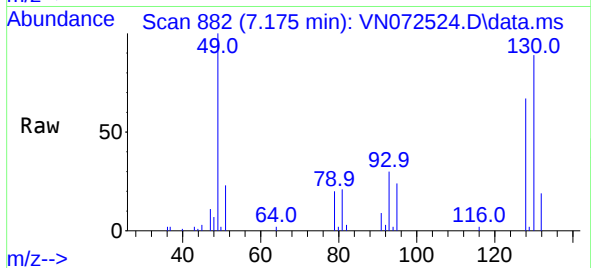
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N051622W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue May 17 06:34:50 2022
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l m
RT: 7.175 min Scan# 81
Delta R.T. -0.476 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

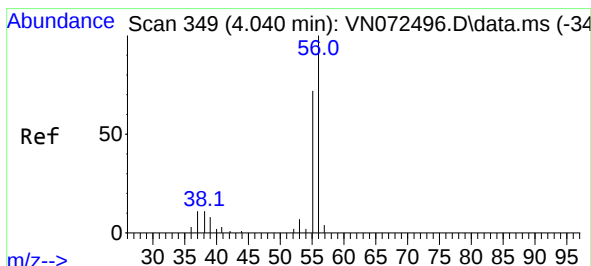
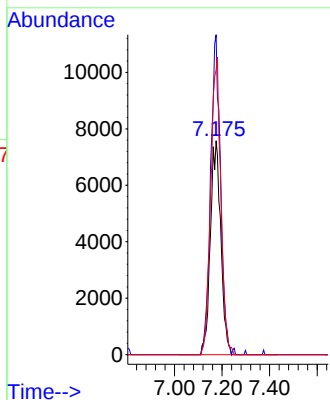
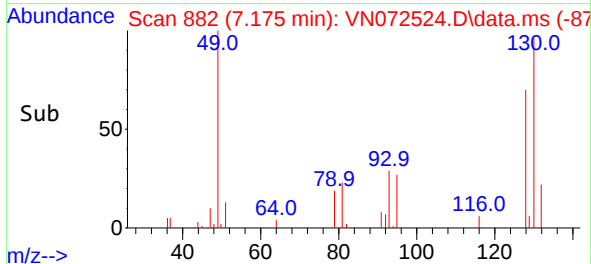
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW



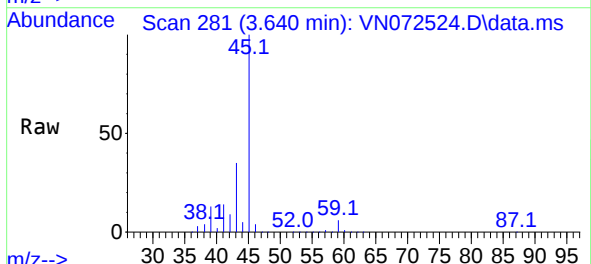
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Ion Ratio Lower Upper
128 100
49 0.0 0.0 392.3
130 0.0 0.0 320.2

Manual Integrations
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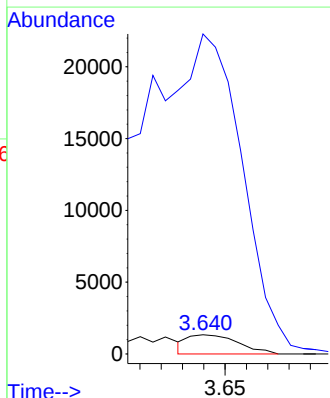
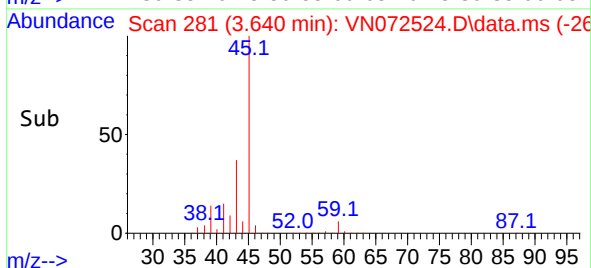
Reviewed By :John Carlone 05/17/2022
Supervised By :Mahesh Dadoda 05/17/2022

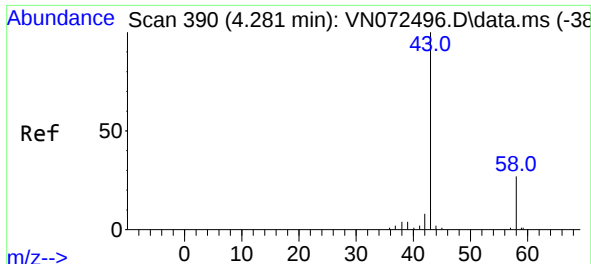


#13
Acrolein
Concen: 5.947 ug/l
RT: 3.640 min Scan# 281
Delta R.T. -0.400 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36



Tgt Ion: 56 Resp: 2202
Ion Ratio Lower Upper
56 100
55 1762.0 57.6 86.4#





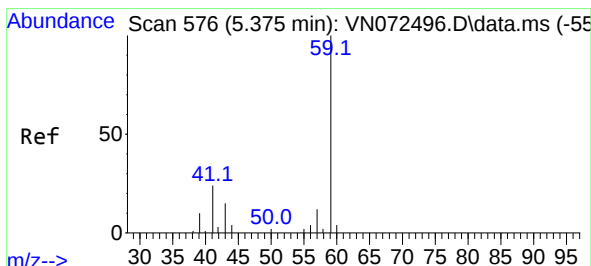
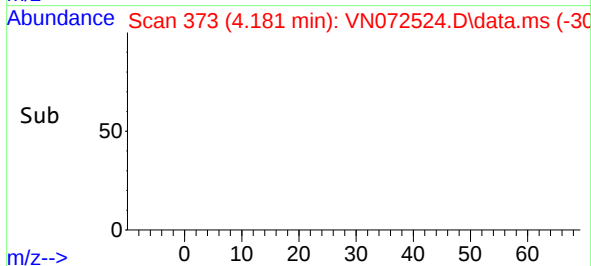
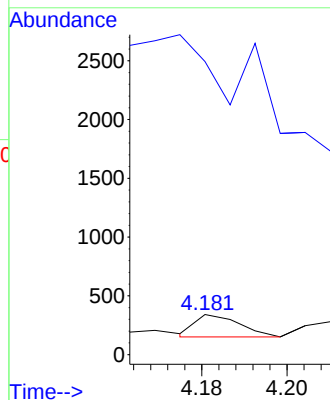
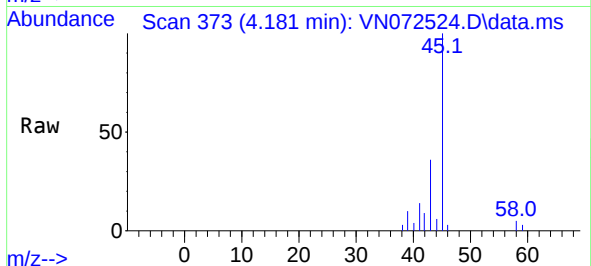
#15
Acetone
Concen: 0.529 ug/l
RT: 4.181 min Scan# 31
Delta R.T. -0.100 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

Instrument :
MSVOA_N
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Tgt Ion: 58 Resp: 138
Ion Ratio Lower Upper
58 100
43 320.4 256.6 384.8

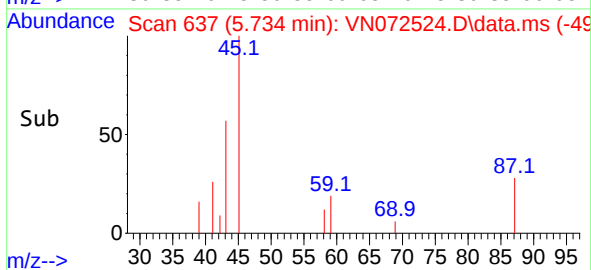
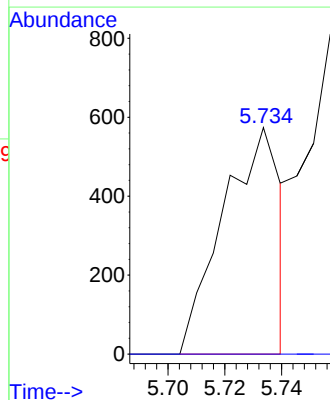
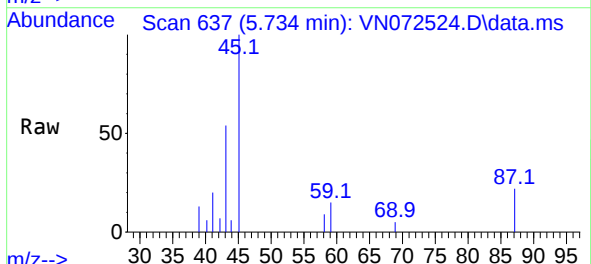
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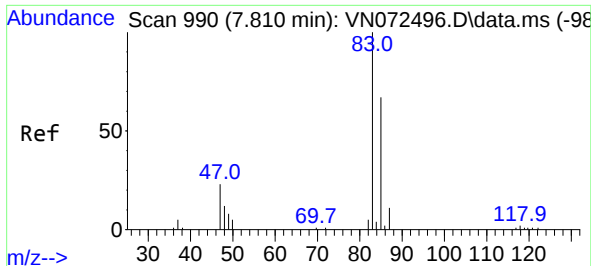
Reviewed By :John Carlone 05/17/2022
Supervised By :Mahesh Dadoda 05/17/2022



#23
tert-Butyl Alcohol
Concen: 1.862 ug/l
RT: 5.734 min Scan# 637
Delta R.T. 0.359 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

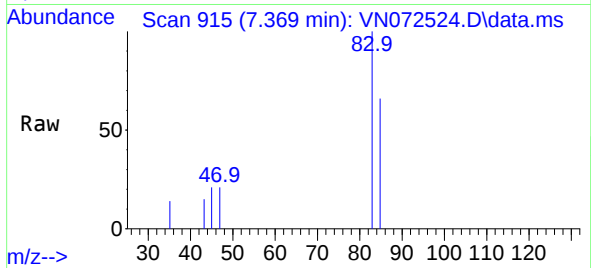
Tgt Ion: 59 Resp: 812
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#25
Chloroform
Concen: 0.385 ug/l
RT: 7.369 min Scan# 915
Delta R.T. -0.441 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

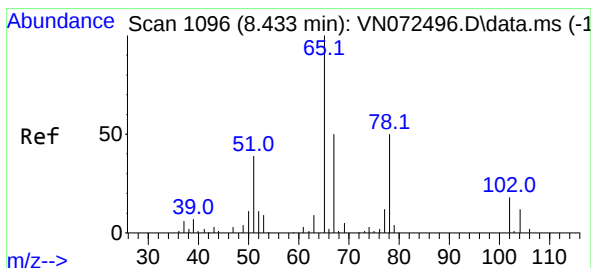
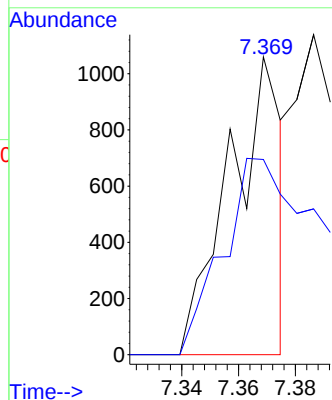
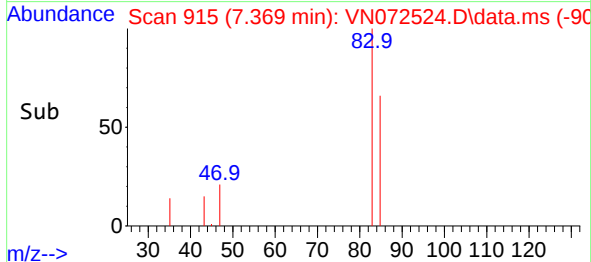
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW



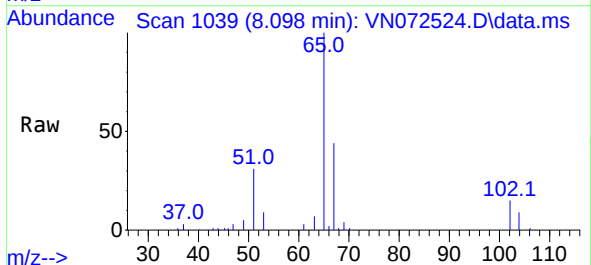
Tgt Ion: 83 Resp: 135
Ion Ratio Lower Upper
83 100
85 65.6 51.3 76.9

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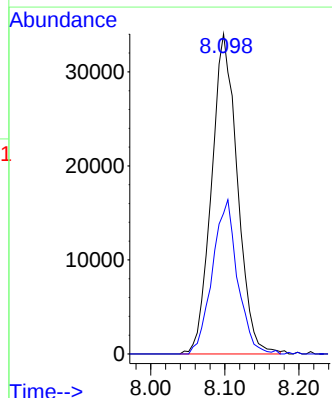
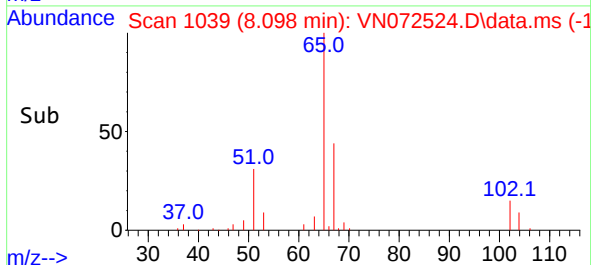
Reviewed By :John Carlone 05/17/2022
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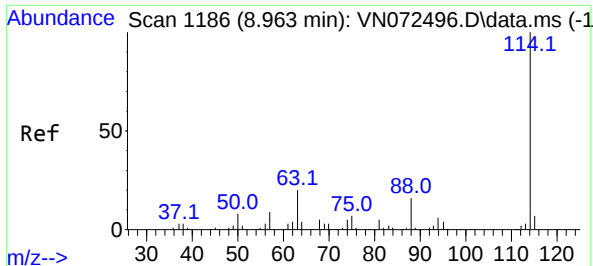


#27
1,2-Dichloroethane-d4
Concen: 31.998 ug/l
RT: 8.098 min Scan# 1039
Delta R.T. -0.335 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36



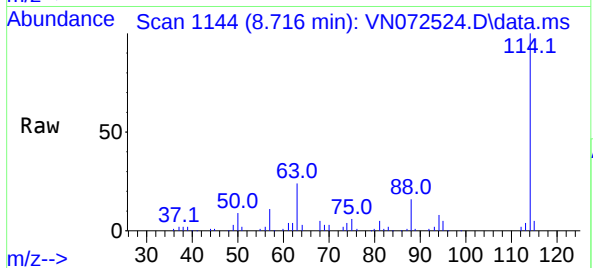
Tgt Ion: 65 Resp: 82522
Ion Ratio Lower Upper
65 100
67 46.8 40.2 60.2





#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.716 min Scan# 1186
Delta R.T. -0.247 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

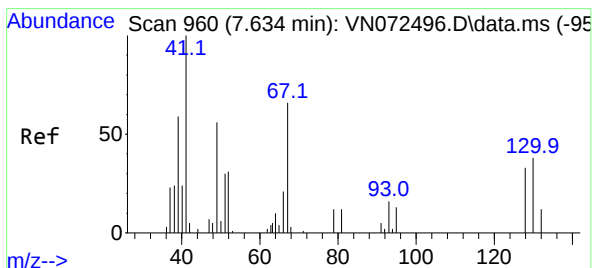
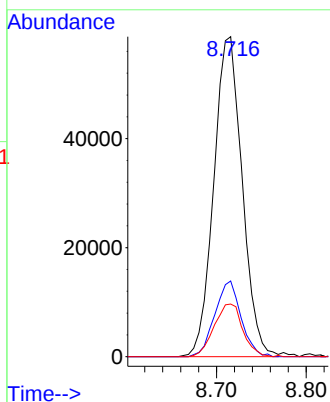
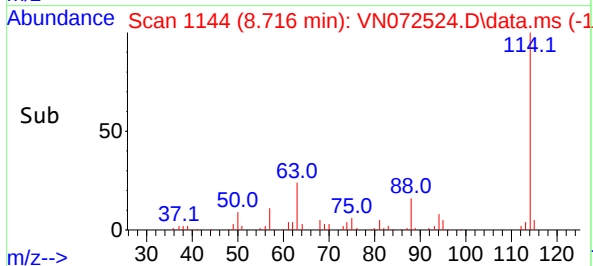
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW



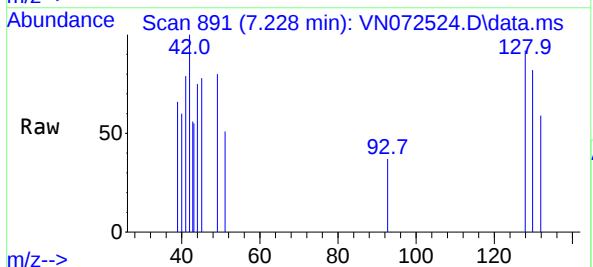
Tgt Ion:114 Resp: 128864
Ion Ratio Lower Upper
114 100
63 21.9 15.8 23.6
88 16.6 11.6 17.4

Manual Integrations
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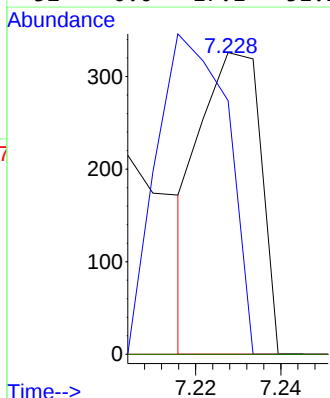
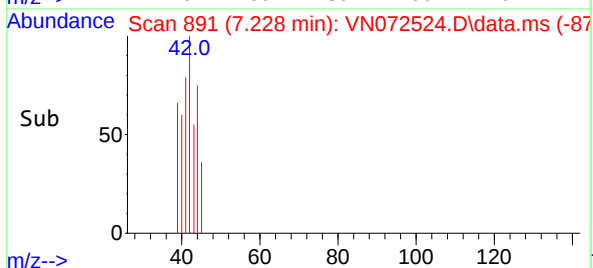
Reviewed By :John Carlone 05/17/2022
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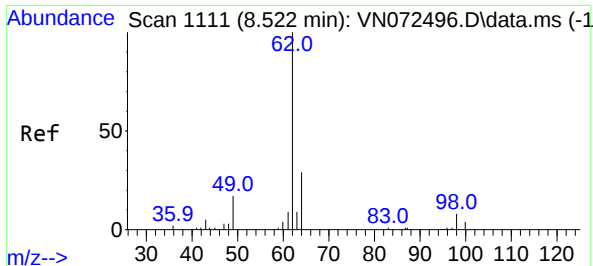


#35
Methacrylonitrile
Concen: 0.202 ug/l
RT: 7.228 min Scan# 891
Delta R.T. -0.406 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36



Tgt Ion: 41 Resp: 317
Ion Ratio Lower Upper
41 100
39 84.0 28.0 83.9#
67 0.0 37.7 113.1#
52 0.0 17.1 51.2#





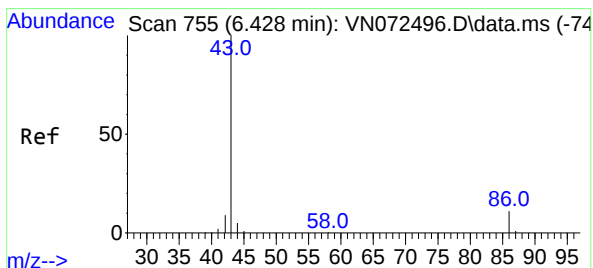
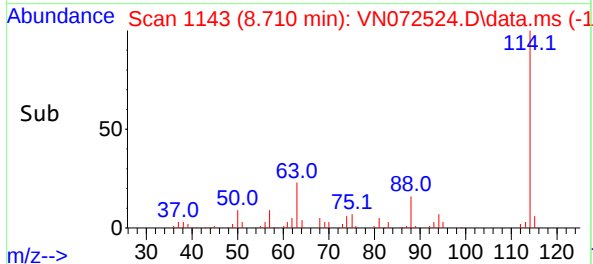
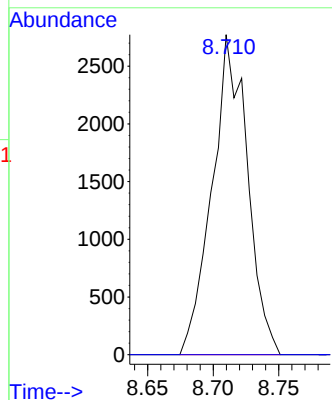
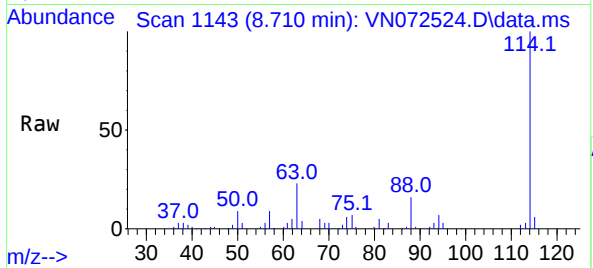
#36
1,2-Dichloroethane
Concen: 1.527 ug/l
RT: 8.710 min Scan# 1111
Delta R.T. 0.188 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

Instrument :
MSVOA_N
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EFF-WW

Tgt Ion: 62 Resp: 518
Ion Ratio Lower Upper
62 100
98 0.0 6.6 10.0

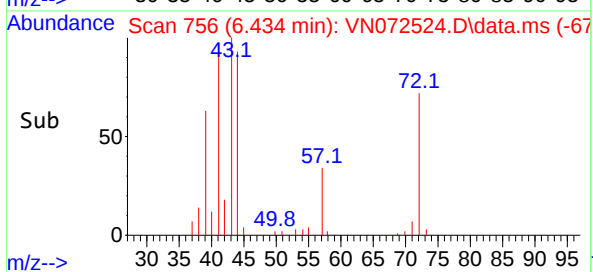
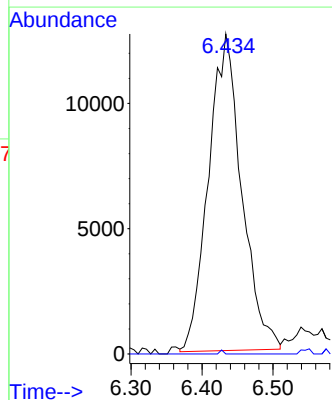
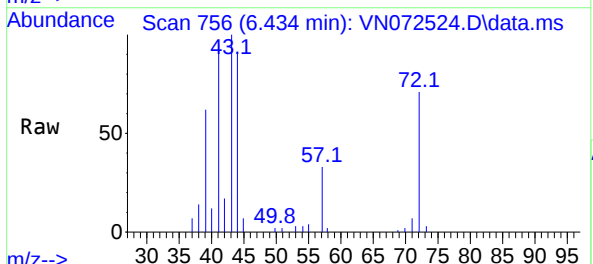
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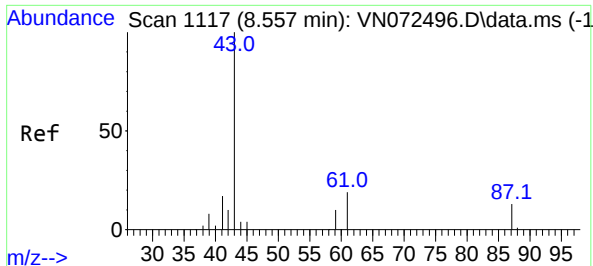
Reviewed By :John Carlone 05/17/2022
Supervised By :Mahesh Dadoda 05/17/2022



#42
Vinyl Acetate
Concen: 8.220 ug/l
RT: 6.434 min Scan# 756
Delta R.T. 0.006 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

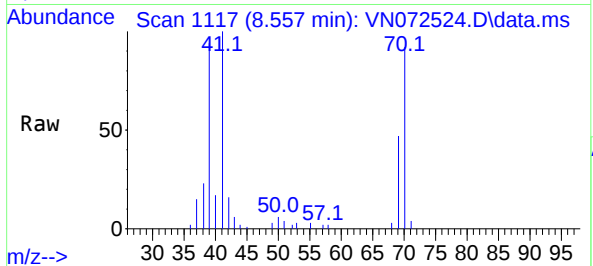
Tgt Ion: 43 Resp: 41096
Ion Ratio Lower Upper
43 100
86 0.0 7.5 11.3





#44
Isopropyl Acetate
Concen: 0.647 ug/l
RT: 8.557 min Scan# 1117
Delta R.T. -0.000 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

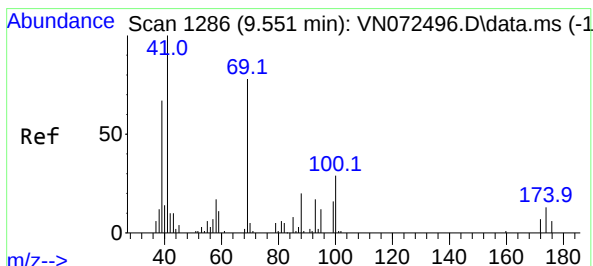
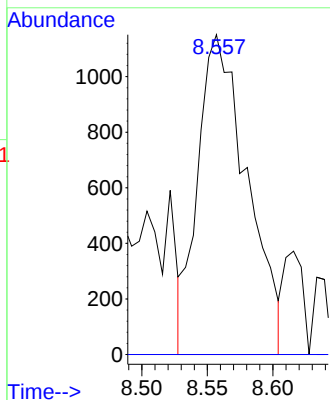
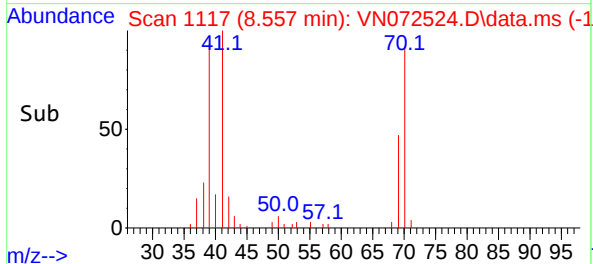
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW



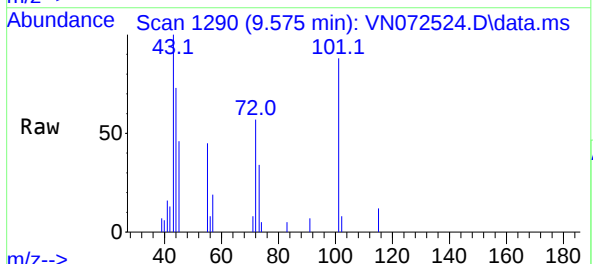
Tgt Ion: 43 Resp: 3004
Ion Ratio Lower Upper
43 100
61 0.0 20.1 30.1

Manual Integrations
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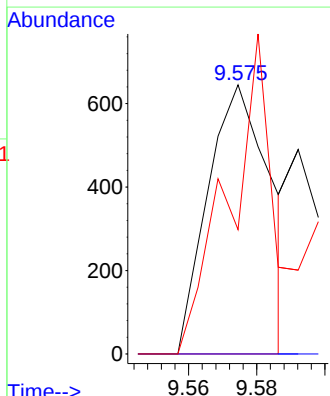
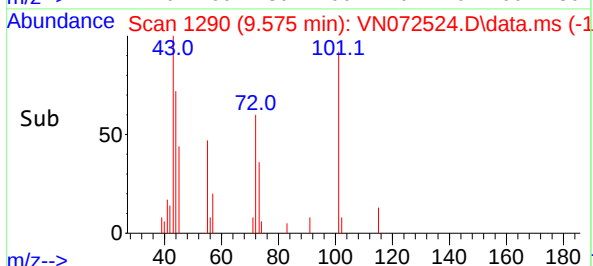
Reviewed By :John Carlone 05/17/2022
Supervised By :Mahesh Dadoda 05/17/2022

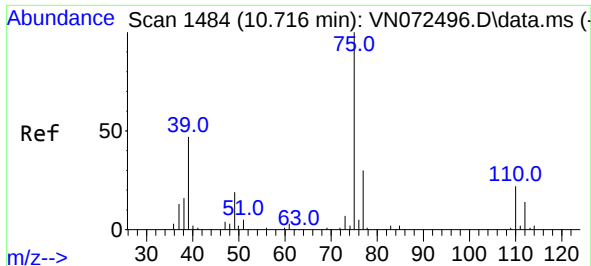


#46
Methyl methacrylate
Concen: 0.371 ug/l
RT: 9.575 min Scan# 1290
Delta R.T. 0.023 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36



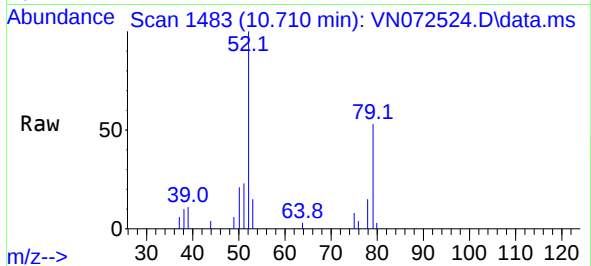
Tgt Ion: 41 Resp: 815
Ion Ratio Lower Upper
41 100
69 0.0 44.4 133.2#
39 46.2 39.9 119.6





#48
t-1,3-Dichloropropene
Concen: 0.262 ug/l
RT: 10.710 min Scan# 1483
Delta R.T. -0.006 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

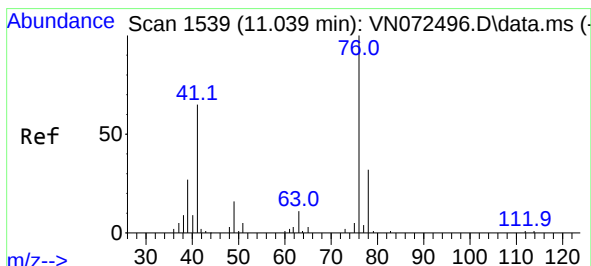
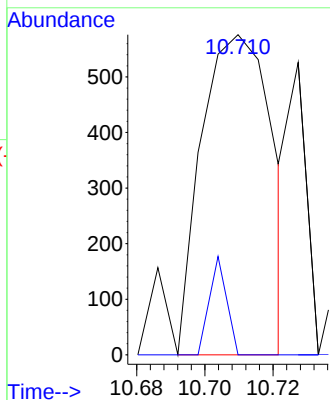
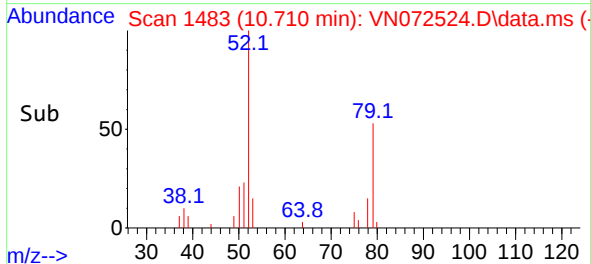
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW



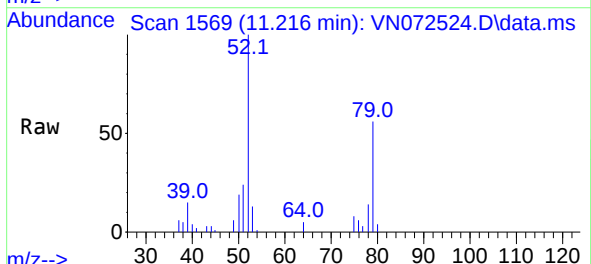
Tgt Ion: 75 Resp: 83
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9

Manual Integrations
APPROVED

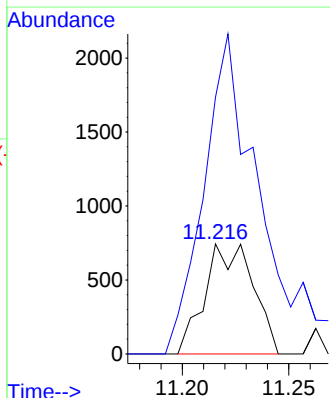
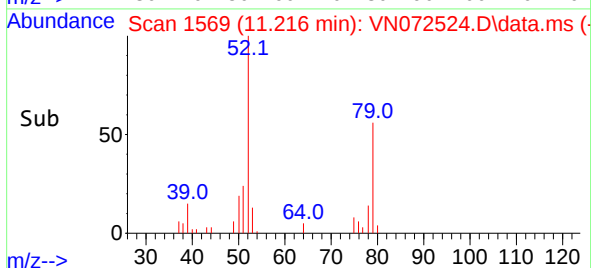
Reviewed By :John Carlone 05/17/2022
Supervised By :Mahesh Dadoda 05/17/2022

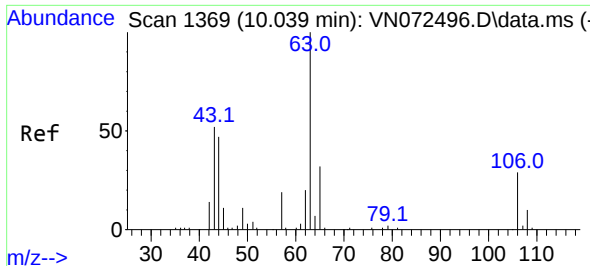


#52
1,3-Dichloropropane
Concen: 0.347 ug/l
RT: 11.216 min Scan# 1569
Delta R.T. 0.176 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36



Tgt Ion: 76 Resp: 1173
Ion Ratio Lower Upper
76 100
78 309.6 0.0 65.4





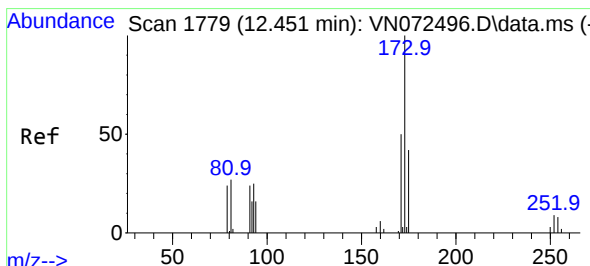
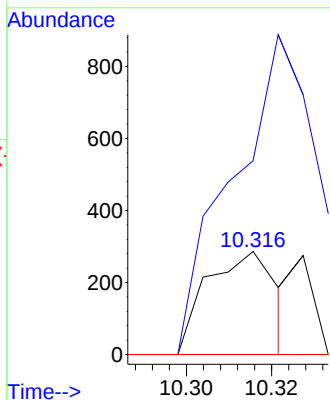
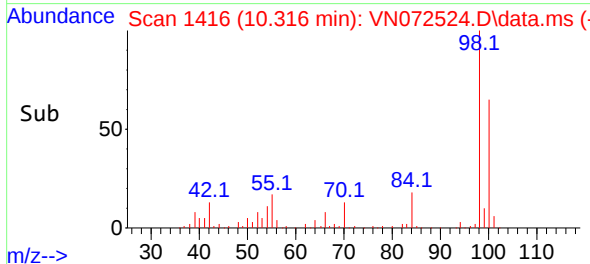
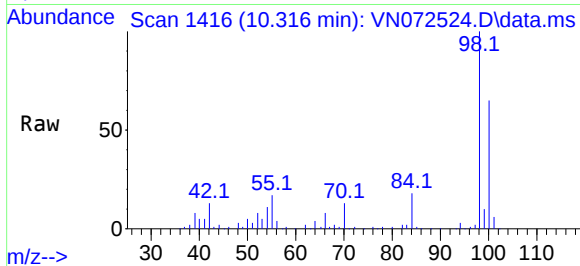
#55
2-Chloroethyl vinyl ether
Concen: 0.417 ug/l
RT: 10.316 min Scan# 1416
Delta R.T. 0.276 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Tgt Ion: 63 Resp: 320
Ion Ratio Lower Upper
63 100
65 443.7 25.4 38.0
106 0.0 23.2 34.8

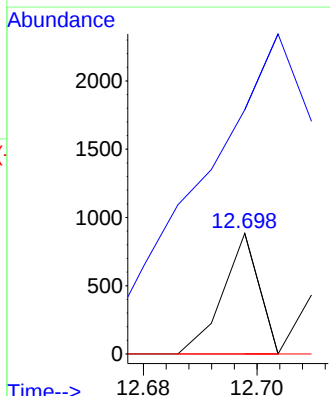
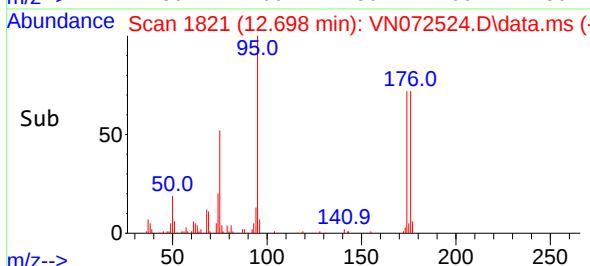
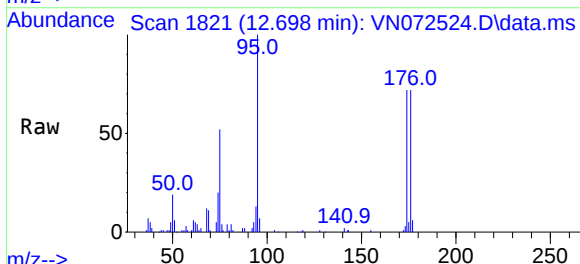
Manual Integrations
APPROVED

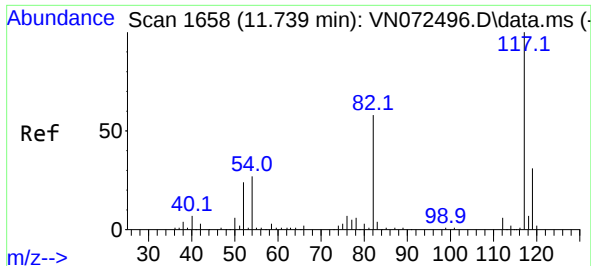
Reviewed By :John Carlone 05/17/2022
Supervised By :Mahesh Dadoda 05/17/2022



#56
Bromoform
Concen: 0.220 ug/l
RT: 12.698 min Scan# 1821
Delta R.T. 0.247 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

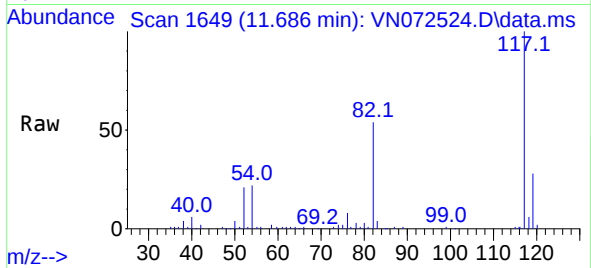
Tgt Ion:173 Resp: 391
Ion Ratio Lower Upper
173 100
175 0.0 38.6 58.0#
254 0.0 0.0 0.0





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.686 min Scan# 116460
Delta R.T. -0.053 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

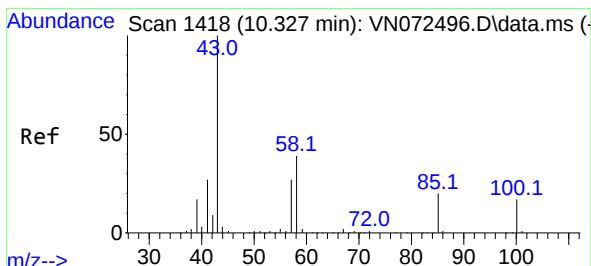
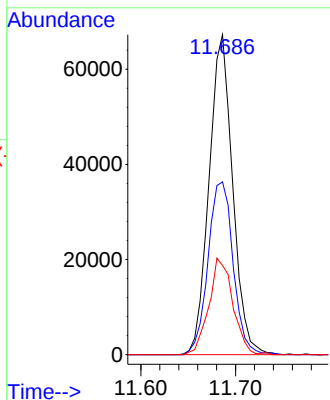
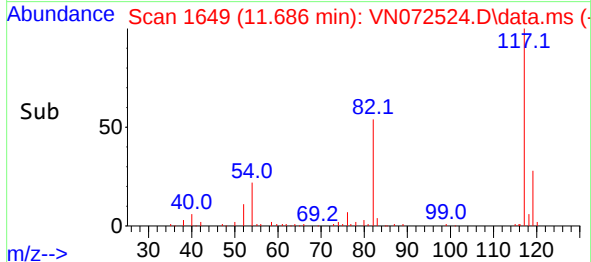
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW



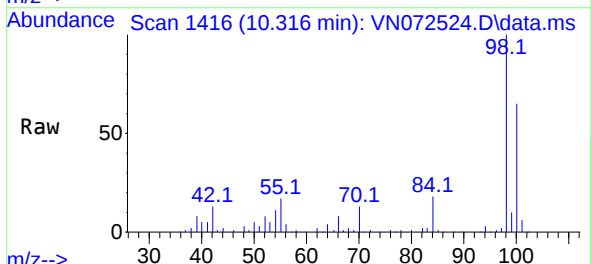
Tgt Ion:117 Resp: 116460
Ion Ratio Lower Upper
117 100
82 57.5 43.6 65.4
119 30.5 25.8 38.6

Manual Integrations
APPROVED

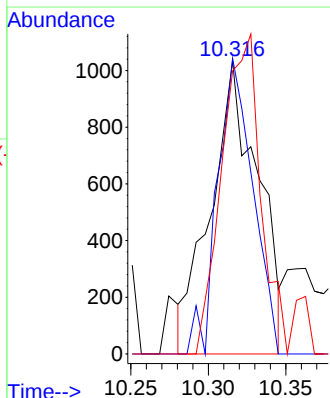
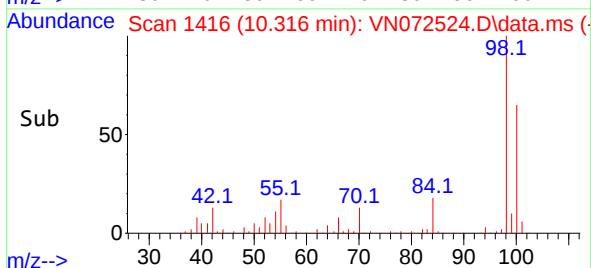
Reviewed By :John Carlone 05/17/2022
Supervised By :Mahesh Dadoda 05/17/2022

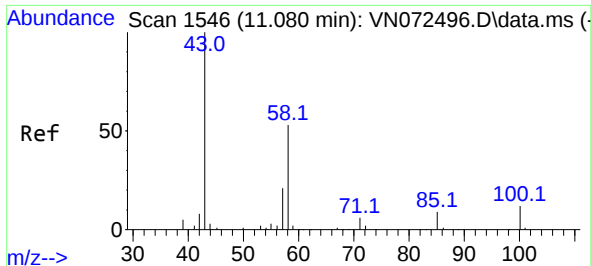


#58
4-Methyl-2-Pentanone
Concen: 0.798 ug/l
RT: 10.316 min Scan# 1416
Delta R.T. -0.012 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36



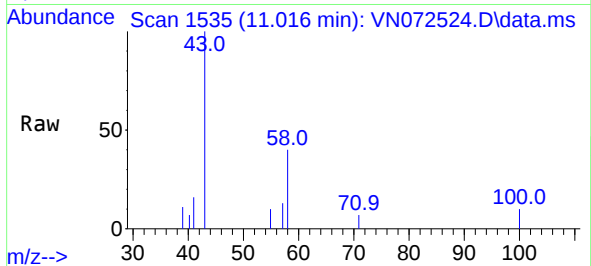
Tgt Ion: 43 Resp: 2189
Ion Ratio Lower Upper
43 100
58 72.7 30.0 45.0#
85 89.4 15.0 22.6#





#59
2-Hexanone
Concen: 2.312 ug/l
RT: 11.016 min Scan# 1535
Delta R.T. -0.065 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

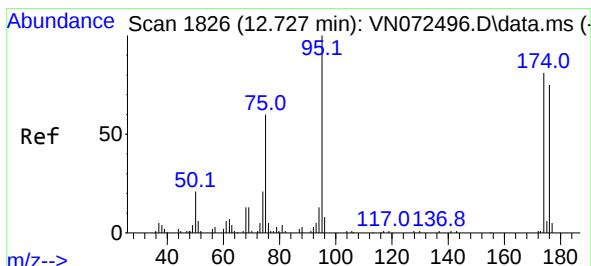
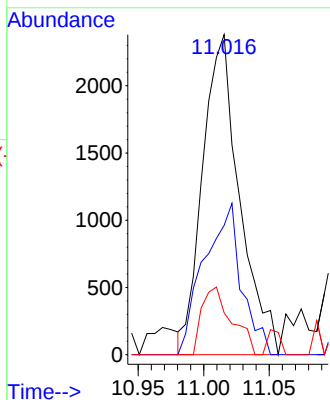
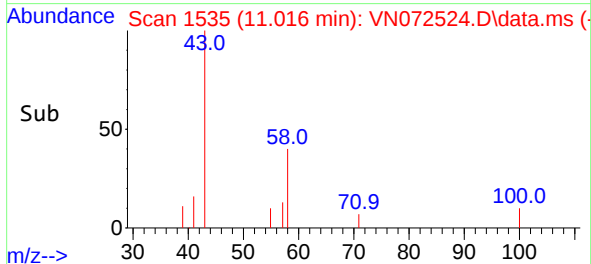
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW



Tgt Ion: 43 Resp: 466
Ion Ratio Lower Upper
43 100
58 47.8 42.2 63.2
57 15.7 15.0 22.4

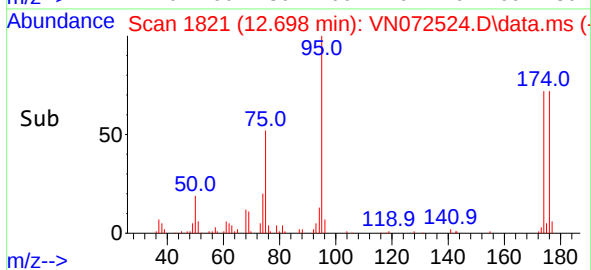
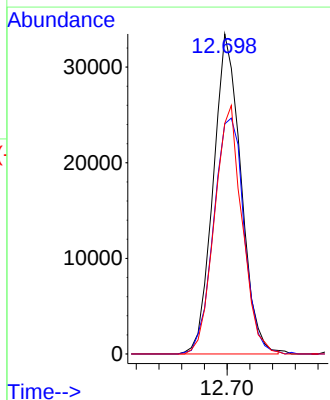
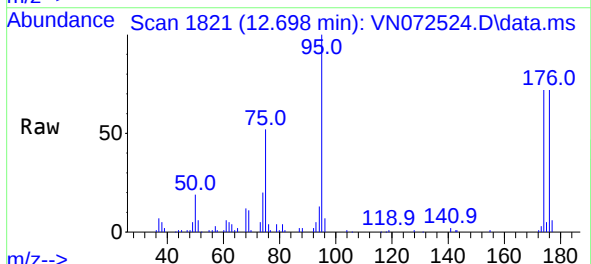
Manual Integrations
APPROVED

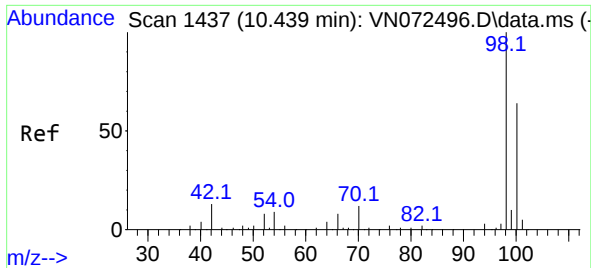
Reviewed By :John Carlone 05/17/2022
Supervised By :Mahesh Dadoda 05/17/2022



#60
4-Bromofluorobenzene
Concen: 24.905 ug/l
RT: 12.698 min Scan# 1821
Delta R.T. -0.029 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

Tgt Ion: 95 Resp: 56632
Ion Ratio Lower Upper
95 100
174 80.7 62.9 94.3
176 77.6 61.0 91.4





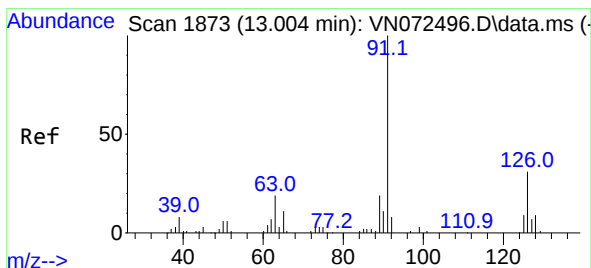
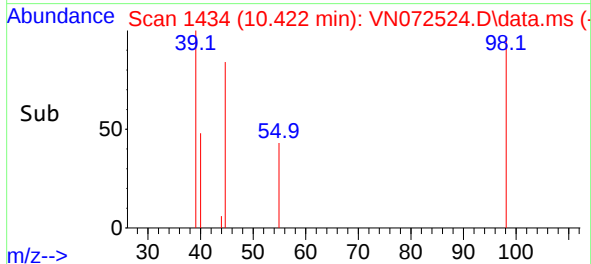
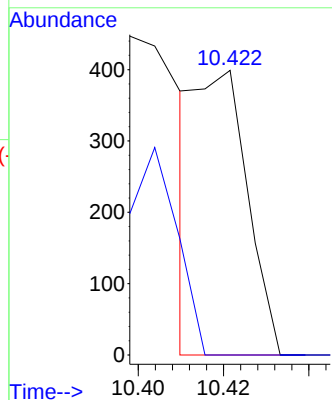
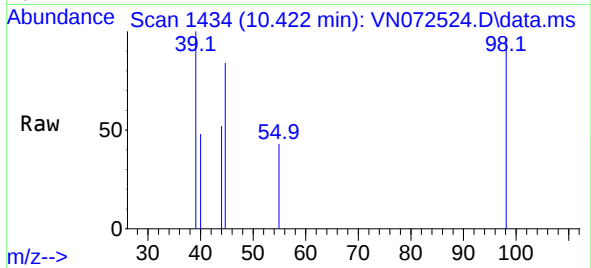
#63
Toluene-d8
Concen: 0.052 ug/l
RT: 10.422 min Scan# 1434
Delta R.T. -0.018 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Tgt Ion: 98 Resp: 328
Ion Ratio Lower Upper
98 100
100 70.1 50.6 76.0

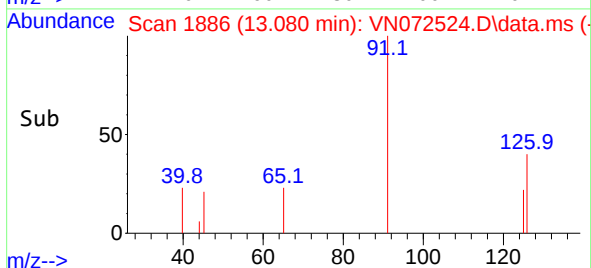
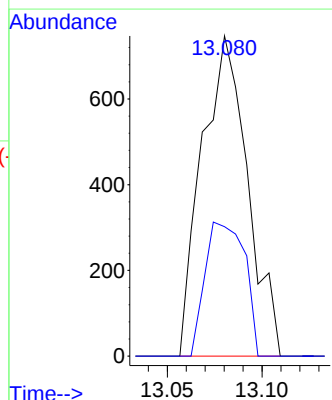
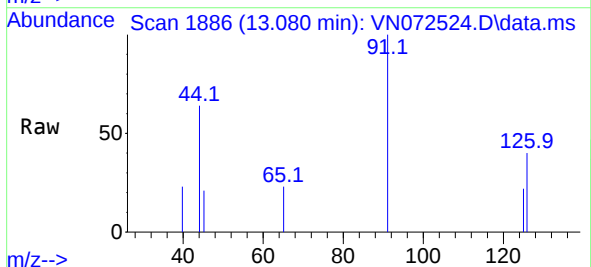
Manual Integrations
APPROVED

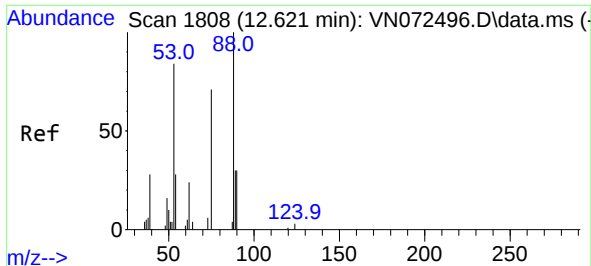
Reviewed By :John Carlone 05/17/2022
Supervised By :Mahesh Dadoda 05/17/2022



#75
2-Chlorotoluene
Concen: 0.201 ug/l
RT: 13.080 min Scan# 1886
Delta R.T. 0.076 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

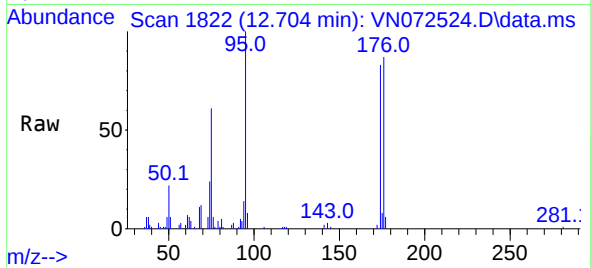
Tgt Ion: 91 Resp: 1253
Ion Ratio Lower Upper
91 100
126 36.2 0.0 69.8





#77
t-1,4-Dichloro-2-butene
Concen: 38.024 ug/l
RT: 12.704 min Scan# 1822
Delta R.T. 0.082 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

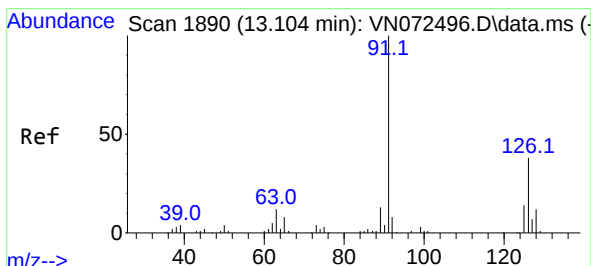
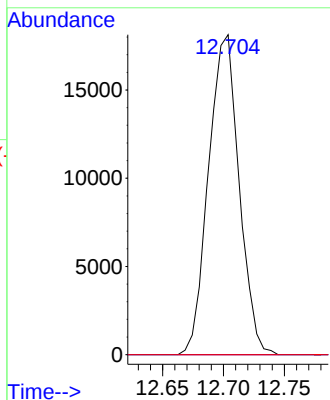
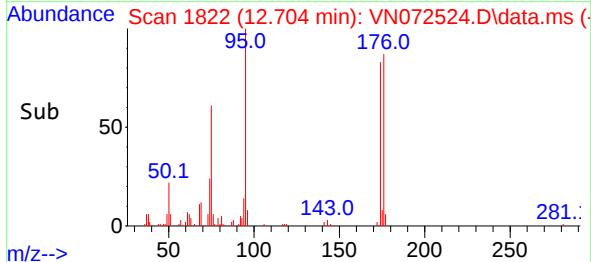
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW



Tgt Ion: 75 Resp: 3166
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5
89 0.0 22.9 68.7

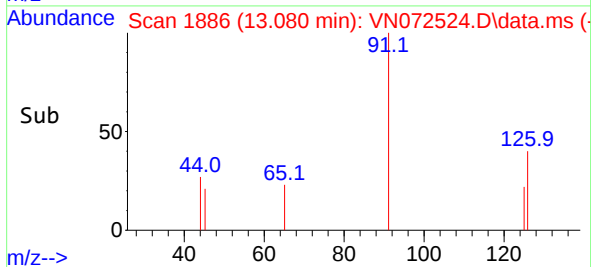
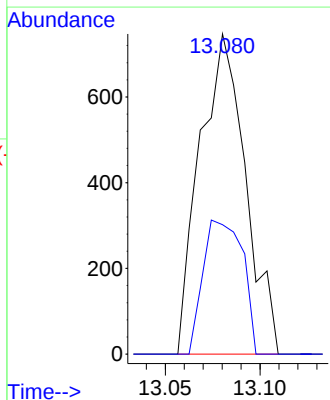
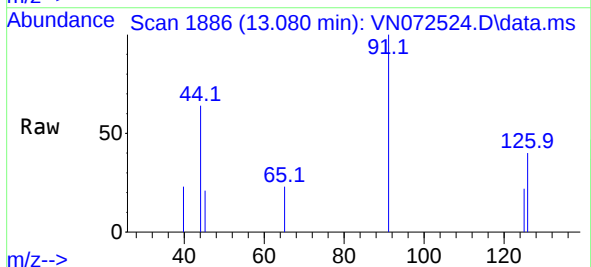
Manual Integrations
APPROVED

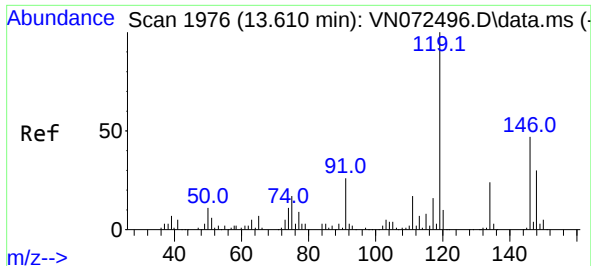
Reviewed By :John Carlone 05/17/2022
Supervised By :Mahesh Dadoda 05/17/2022



#78
4-Chlorotoluene
Concen: 0.215 ug/l
RT: 13.080 min Scan# 1886
Delta R.T. -0.024 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

Tgt Ion: 91 Resp: 1253
Ion Ratio Lower Upper
91 100
126 36.2 0.0 70.6





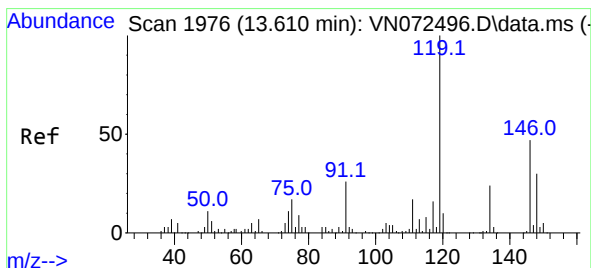
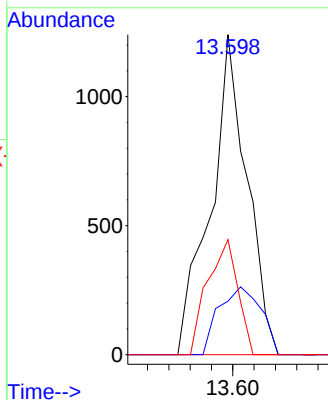
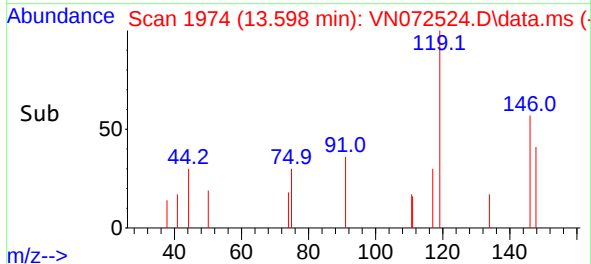
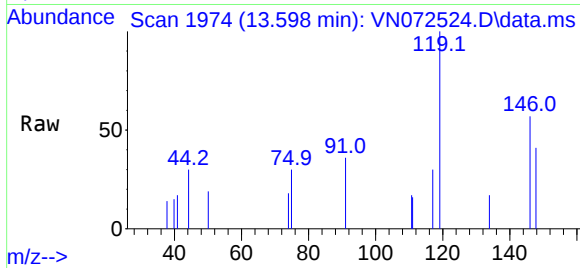
#82
p-Isopropyltoluene
Concen: 0.203 ug/l
RT: 13.598 min Scan# 1974
Delta R.T. -0.012 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Tgt Ion:119 Resp: 147
Ion Ratio Lower Upper
119 100
134 24.5 0.0 51.8
91 29.8 0.0 50.4

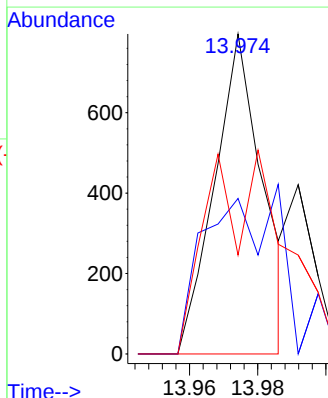
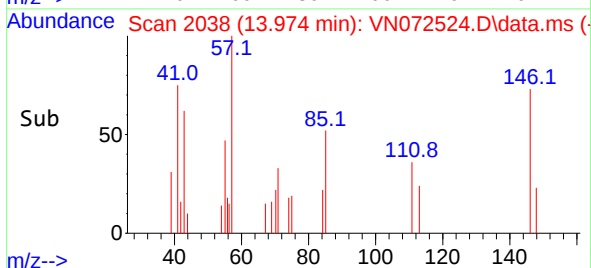
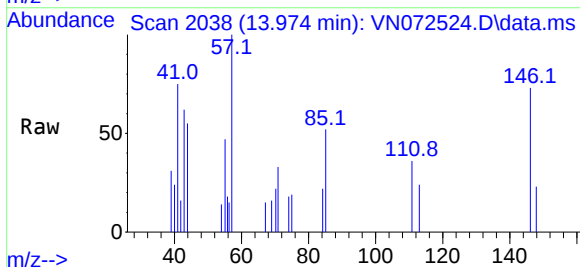
Manual Integrations
APPROVED

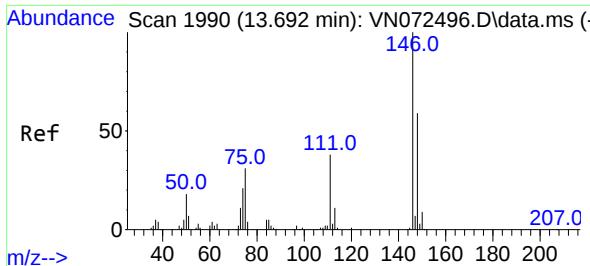
Reviewed By :John Carlone 05/17/2022
Supervised By :Mahesh Dadoda 05/17/2022



#83
1,3-Dichlorobenzene
Concen: 0.217 ug/l
RT: 13.974 min Scan# 2038
Delta R.T. 0.365 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

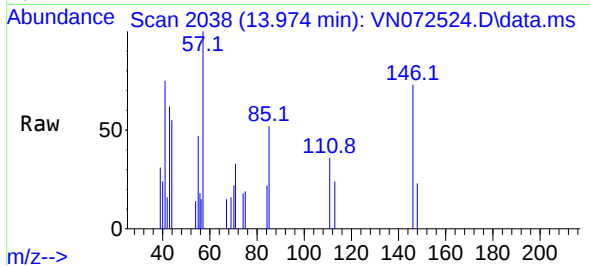
Tgt Ion:146 Resp: 784
Ion Ratio Lower Upper
146 100
111 56.6 20.8 62.2
148 45.4 31.4 94.3





#84
1,4-Dichlorobenzene
Concen: 0.223 ug/l
RT: 13.974 min Scan# 2038
Delta R.T. 0.282 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

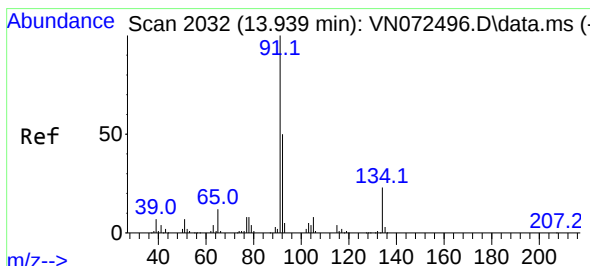
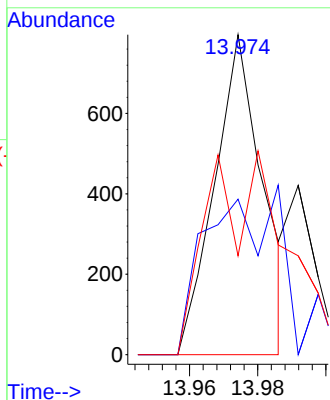
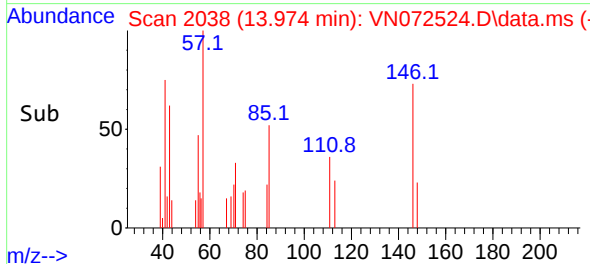
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW



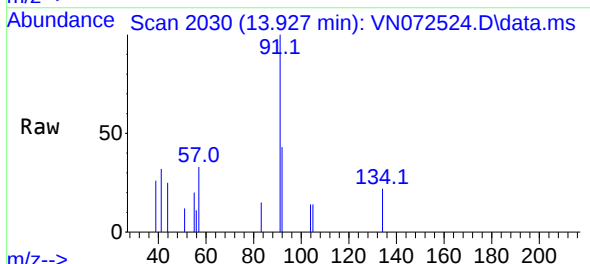
Tgt Ion:146 Resp: 784
Ion Ratio Lower Upper
146 100
111 56.6 19.5 58.5
148 45.4 31.1 93.5

Manual Integrations
APPROVED

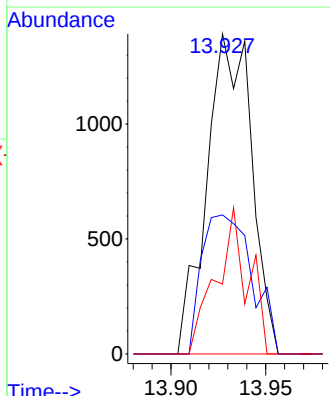
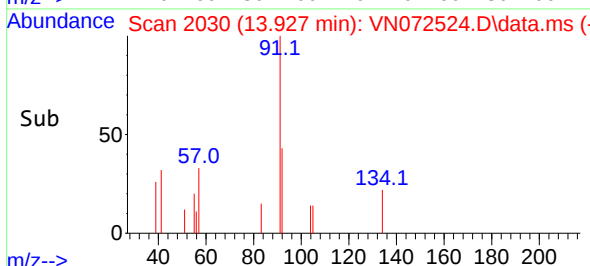
Reviewed By :John Carlone 05/17/2022
Supervised By :Mahesh Dadoda 05/17/2022

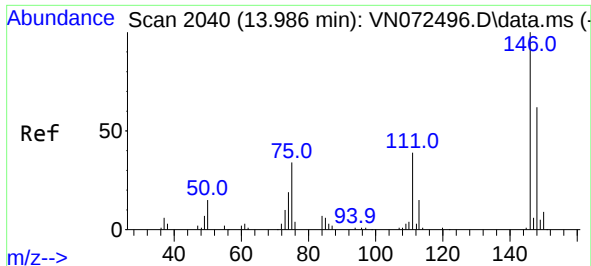


#85
n-Butylbenzene
Concen: 0.427 ug/l
RT: 13.927 min Scan# 2030
Delta R.T. -0.012 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36



Tgt Ion: 91 Resp: 2294
Ion Ratio Lower Upper
91 100
92 48.9 0.0 100.6
134 32.5 0.0 50.2





#87

1,2-Dichlorobenzene

Concen: 0.222 ug/l

RT: 13.974 min Scan# 2040

Delta R.T. -0.012 min

Lab File: VN072524.D

Acq: 17 May 2022 00:36

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

Tgt Ion:146 Resp: 784

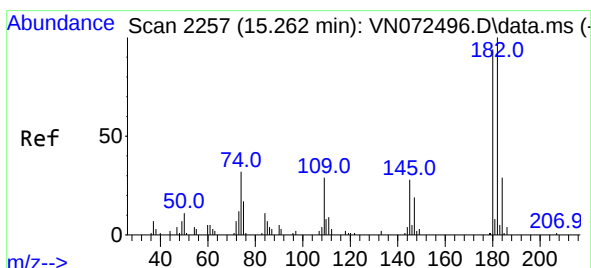
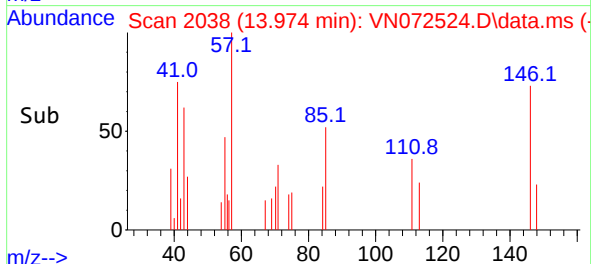
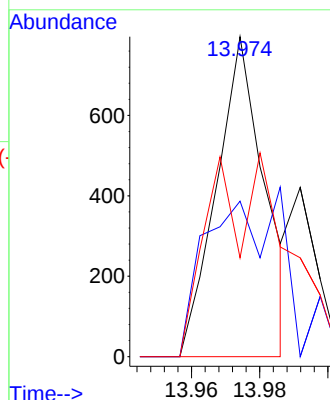
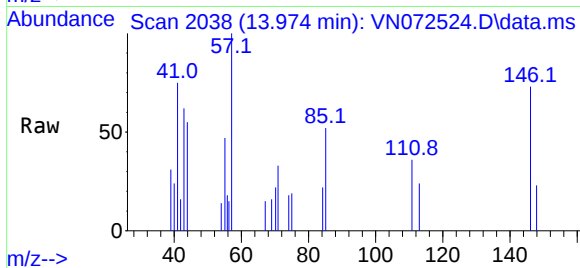
Ion	Ratio	Lower	Upper
146	100		
111	56.6	21.4	64.2
148	45.4	32.5	97.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/17/2022

Supervised By :Mahesh Dadoda 05/17/2022



#89

1,2,4-Trichlorobenzene

Concen: 0.723 ug/l

RT: 15.262 min Scan# 2257

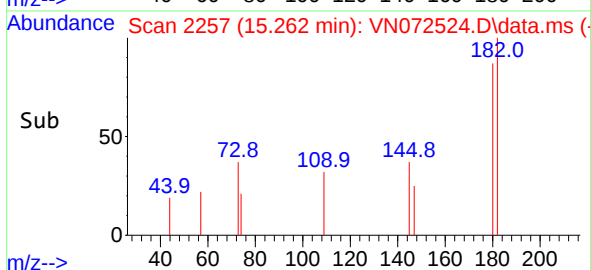
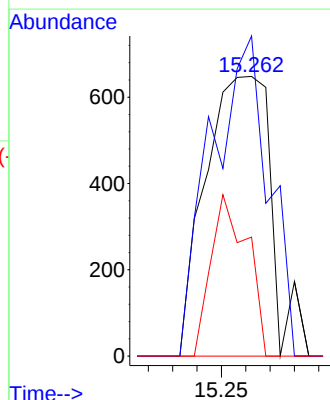
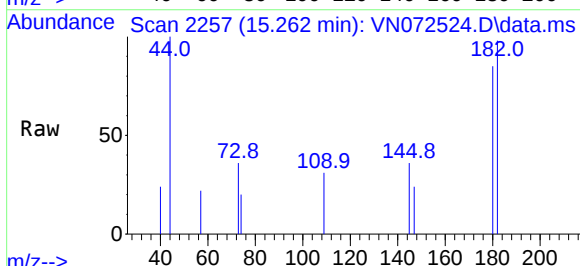
Delta R.T. -0.000 min

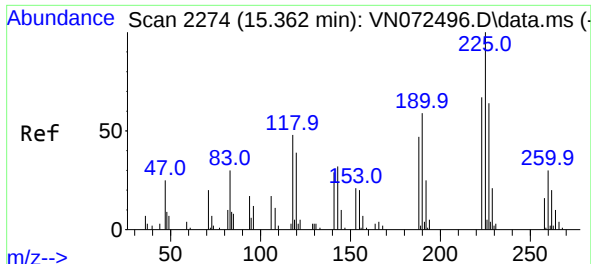
Lab File: VN072524.D

Acq: 17 May 2022 00:36

Tgt Ion:180 Resp: 1157

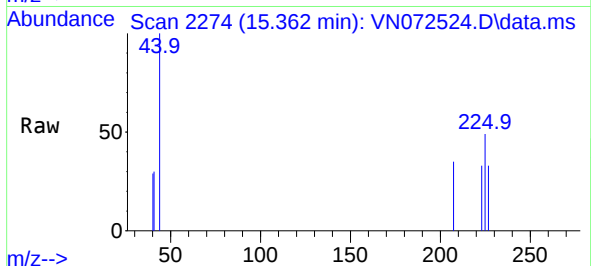
Ion	Ratio	Lower	Upper
180	100		
182	105.7	77.7	116.5
145	33.7	26.6	39.8





#90
Hexachlorobutadiene
Concen: 0.237 ug/l
RT: 15.362 min Scan# 2274
Delta R.T. 0.000 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

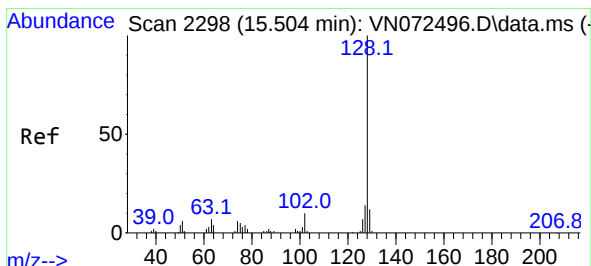
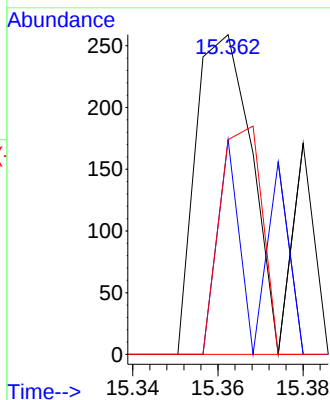
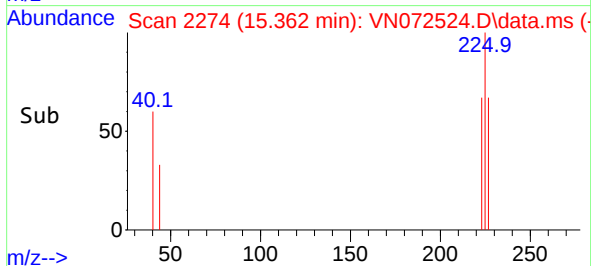
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW



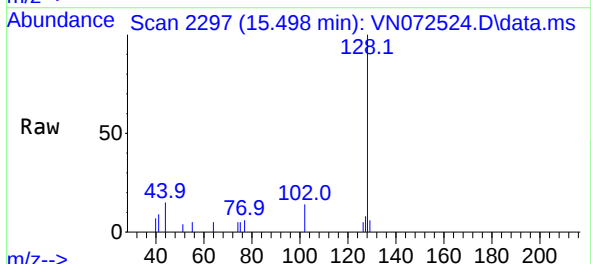
Tgt Ion:225 Resp: 234
Ion Ratio Lower Upper
225 100
223 26.1 0.0 126.8
227 54.3 0.0 123.0

Manual Integrations
APPROVED

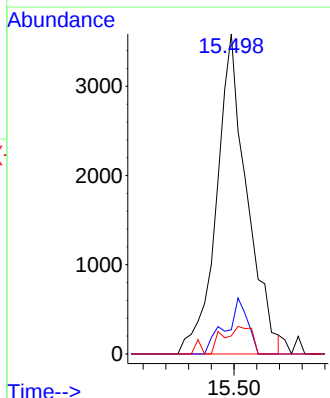
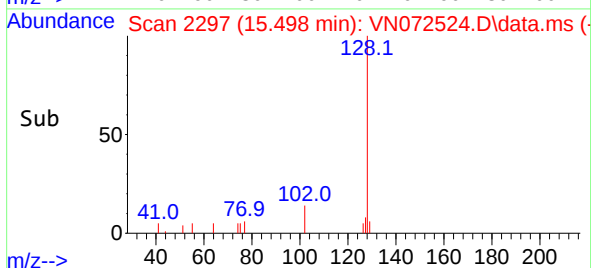
Reviewed By :John Carlone 05/17/2022
Supervised By :Mahesh Dadoda 05/17/2022

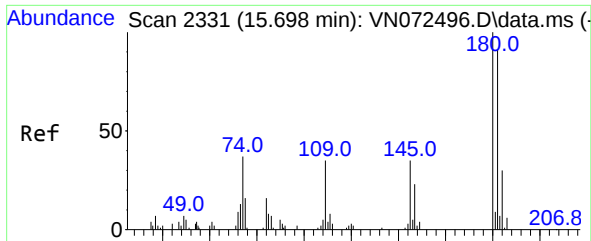


#91
Naphthalene
Concen: 8.740 ug/l
RT: 15.498 min Scan# 2297
Delta R.T. -0.006 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36



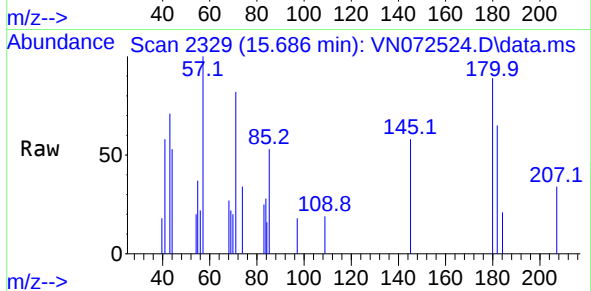
Tgt Ion:128 Resp: 6641
Ion Ratio Lower Upper
128 100
127 8.5 10.7 16.1#
129 5.8 9.0 13.6#





#92
 1,2,3-Trichlorobenzene
 Concen: 1.023 ug/l
 RT: 15.686 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: VN072524.D
 Acq: 17 May 2022 00:36

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW



Tgt Ion:	180	Resp:	166
Ion	Ratio	Lower	Upper
180	100		
182	82.1	0.0	190.0
145	28.4	0.0	67.8

Manual Integrations
 APPROVED

Reviewed By :John Carlone 05/17/2022
 Supervised By :Mahesh Dadoda 05/17/2022

