

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102221\
 Data File : VN069140.D
 Acq On : 22 Oct 2021 17:43
 Operator : JC/MD
 Sample : M4245-01 5X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/25/2021
 Supervised By : Mahesh Dadoda 10/25/2021

Quant Time: Oct 23 07:56:01 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102221W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 22 13:15:19 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	46971	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	282092	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	243435	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	115497	31.569	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.233%			
60) 4-Bromofluorobenzene	12.734	95	110884	26.565	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 88.533%			
63) Toluene-d8	10.443	98	342128	31.107	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.700%			
Target Compounds						
					Qvalue	
12) Methyl Acetate	4.862	43	130694	25.976	ug/l	96
15) Acetone	4.285	58	1371043	3072.261	ug/l	97
18) Methylene Chloride	5.098	84	3011m	0.959	ug/l	
25) Chloroform	7.820	83	5574	0.962	ug/l #	83
30) 2-Butanone	7.337	43	145755	68.377	ug/l	98
44) Isopropyl Acetate	8.560	43	48834	6.343	ug/l #	88
58) 4-Methyl-2-Pentanone	10.331	43	4812	1.172	ug/l	93
59) 2-Hexanone	11.087	43	7310	2.357	ug/l	94
85) n-Butylbenzene	13.943	91	6408	0.583	ug/l	99
87) 1,2-Dichlorobenzene	13.989	146	2529	0.421	ug/l	90
89) 1,2,4-Trichlorobenzene	15.265	180	4917m	1.625	ug/l	
91) Naphthalene	15.507	128	28567	3.264	ug/l	97
92) 1,2,3-Trichlorobenzene	15.700	180	6189	2.141	ug/l	98

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

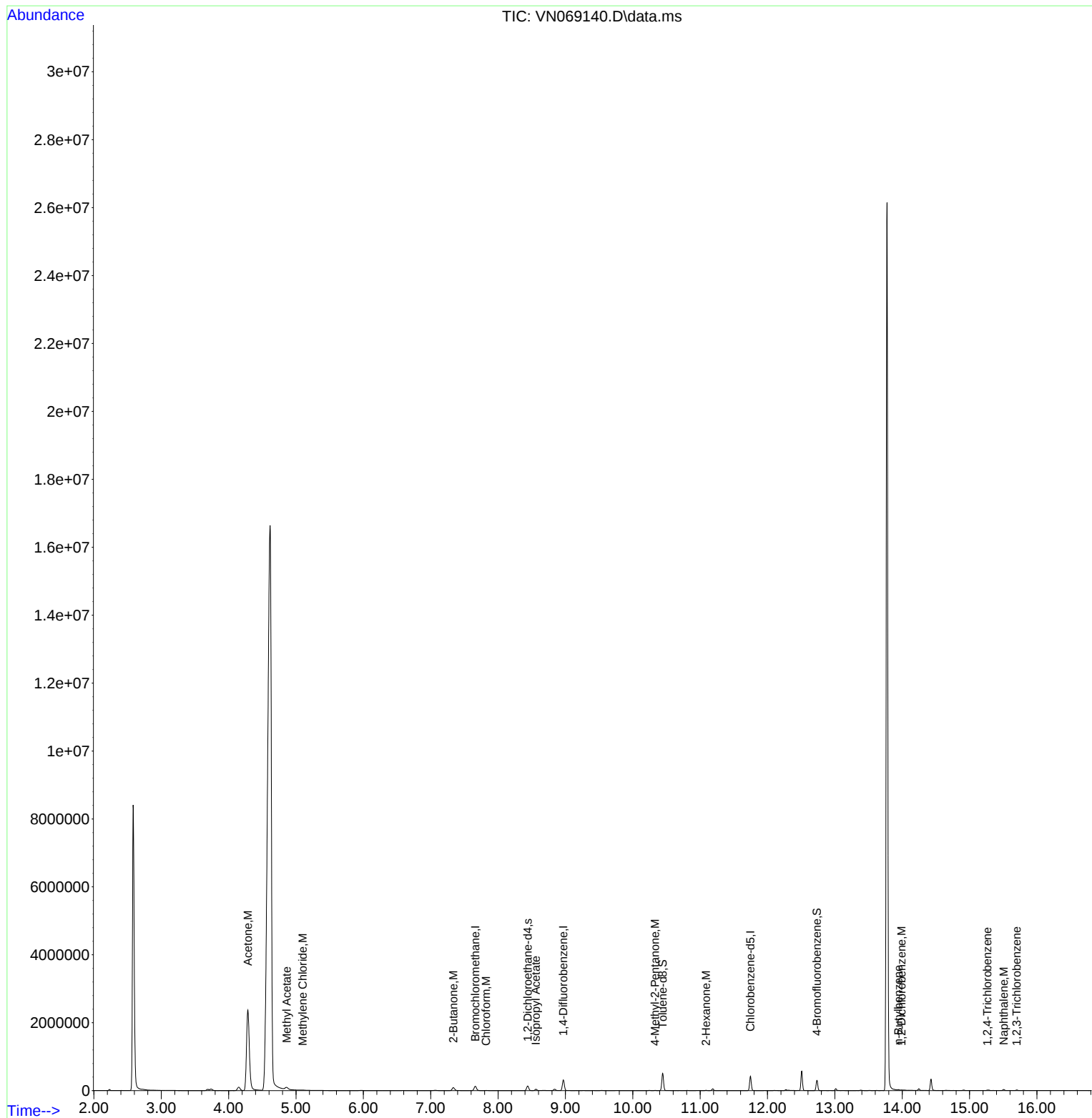
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102221\
Data File : VN069140.D
Acq On : 22 Oct 2021 17:43
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Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

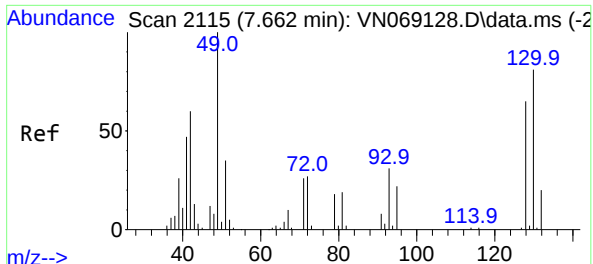
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Quant Time: Oct 23 07:56:01 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102221W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Oct 22 13:15:19 2021
Response via : Initial Calibration

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APPROVED

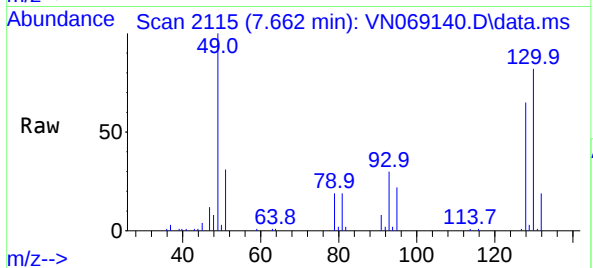
Reviewed By :John Carlone 10/25/2021
Supervised By :Mahesh Dadoda 10/25/2021





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VN069140.D
Acq: 22 Oct 2021 17:43

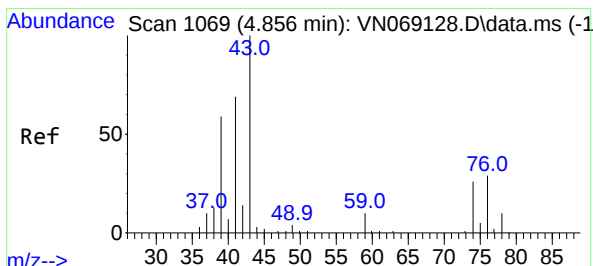
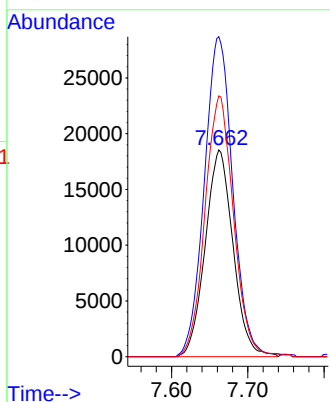
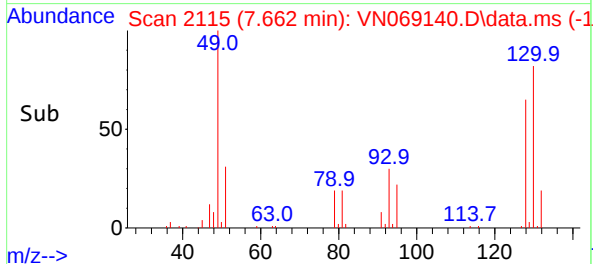
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW



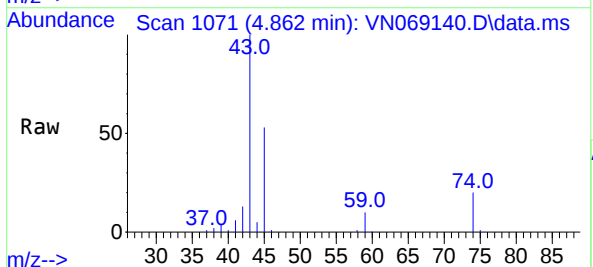
Tgt Ion:128 Resp: 4697
Ion Ratio Lower Upper
128 100
49 158.5 0.0 392.3
130 129.4 0.0 320.2

Manual Integrations
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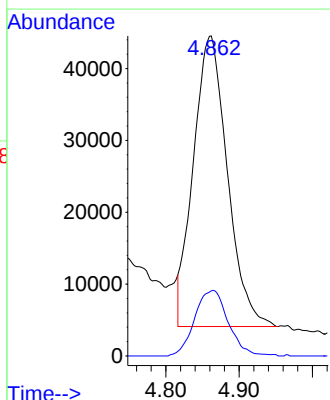
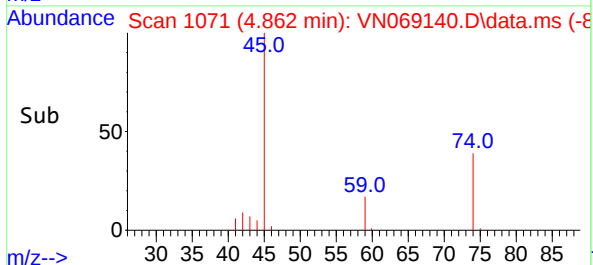
Reviewed By :John Carlone 10/25/2021
Supervised By :Mahesh Dadoda 10/25/2021

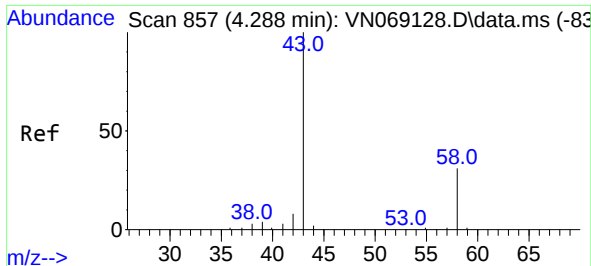


#12
Methyl Acetate
Concen: 25.976 ug/l
RT: 4.862 min Scan# 1071
Delta R.T. 0.006 min
Lab File: VN069140.D
Acq: 22 Oct 2021 17:43



Tgt Ion: 43 Resp: 130694
Ion Ratio Lower Upper
43 100
74 23.7 20.8 31.2





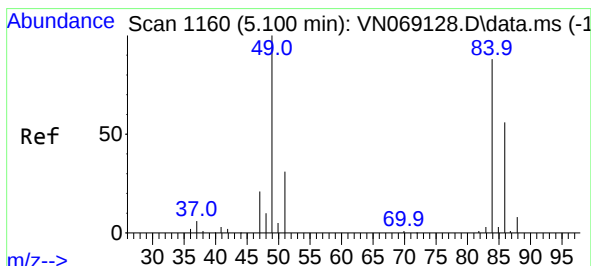
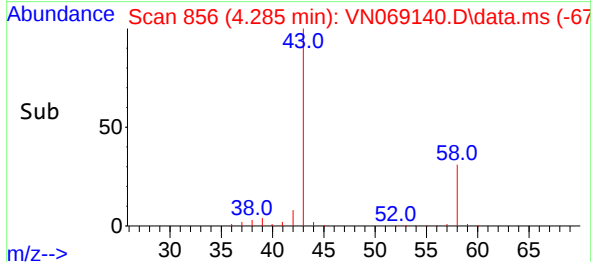
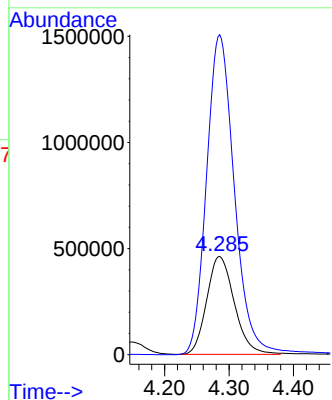
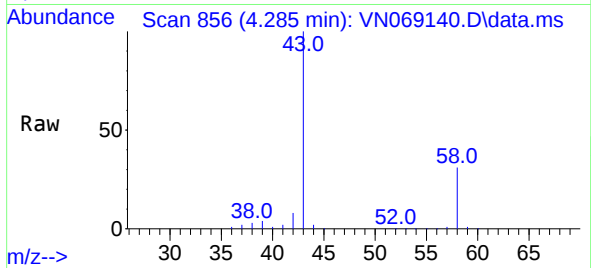
#15
Acetone
Concen: 3072.261 ug/l
RT: 4.285 min Scan# 81
Delta R.T. -0.002 min
Lab File: VN069140.D
Acq: 22 Oct 2021 17:43

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Tgt Ion: 58 Resp: 137104
Ion Ratio Lower Upper
58 100
43 326.6 256.6 384.8

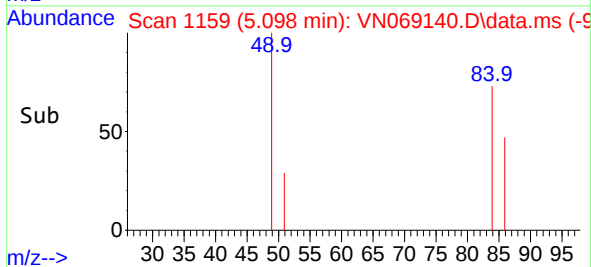
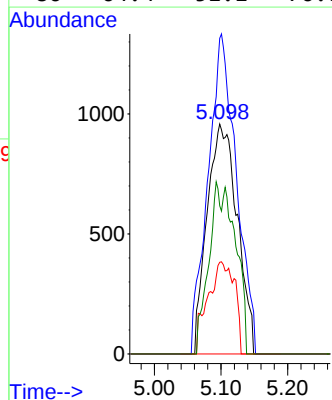
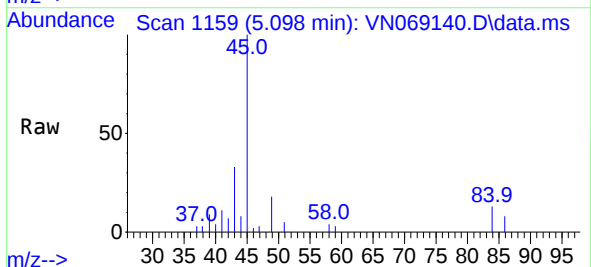
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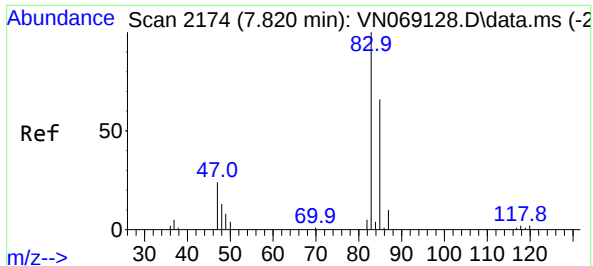
Reviewed By :John Carlone 10/25/2021
Supervised By :Mahesh Dadoda 10/25/2021



#18
Methylene Chloride
Concen: 0.959 ug/l m
RT: 5.098 min Scan# 1159
Delta R.T. -0.002 min
Lab File: VN069140.D
Acq: 22 Oct 2021 17:43

Tgt Ion: 84 Resp: 3011
Ion Ratio Lower Upper
84 100
49 137.3 91.4 137.0#
51 39.9 29.4 44.0
86 64.4 51.1 76.7





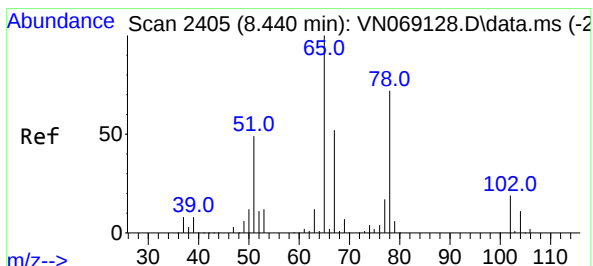
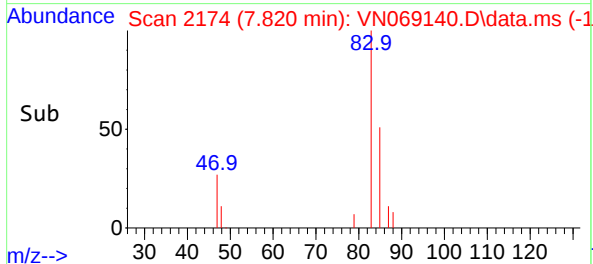
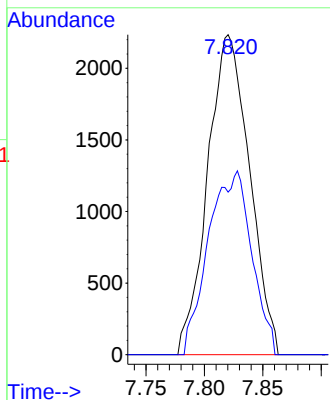
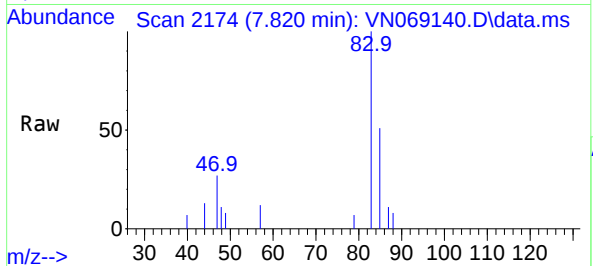
#25
Chloroform
Concen: 0.962 ug/l
RT: 7.820 min Scan# 2174
Delta R.T. 0.000 min
Lab File: VN069140.D
Acq: 22 Oct 2021 17:43

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Tgt Ion: 83 Resp: 5574
Ion Ratio Lower Upper
83 100
85 50.8 51.3 76.9

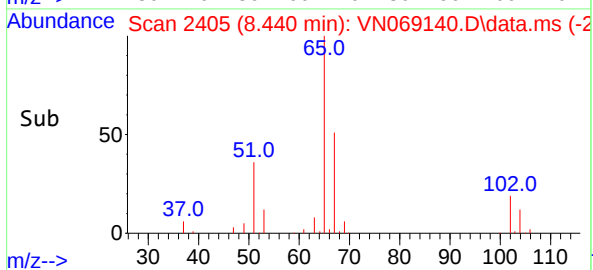
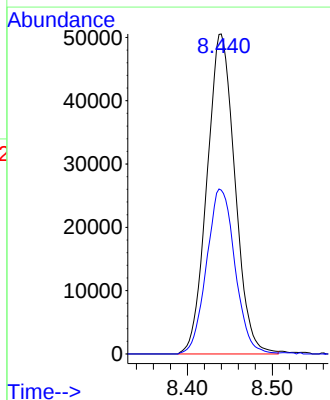
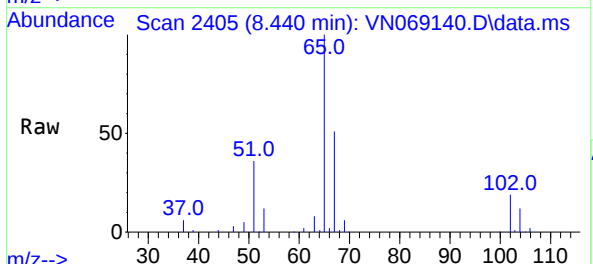
Manual Integrations
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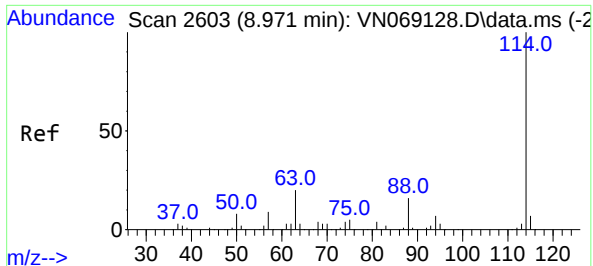
Reviewed By :John Carlone 10/25/2021
Supervised By :Mahesh Dadoda 10/25/2021



#27
1,2-Dichloroethane-d4
Concen: 31.569 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.000 min
Lab File: VN069140.D
Acq: 22 Oct 2021 17:43

Tgt Ion: 65 Resp: 115497
Ion Ratio Lower Upper
65 100
67 52.5 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.968 min Scan# 2

Delta R.T. -0.002 min

Lab File: VN069140.D

Acq: 22 Oct 2021 17:43

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

Tgt Ion:114 Resp: 282092

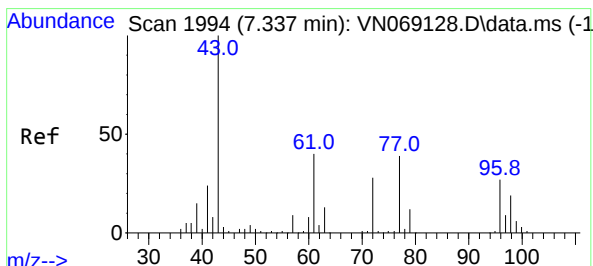
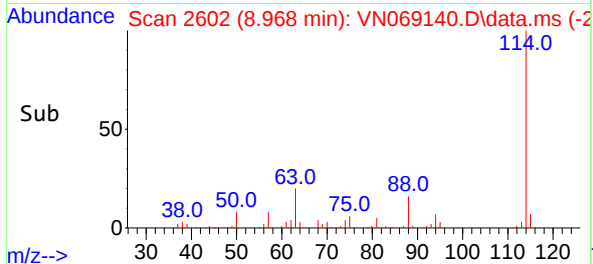
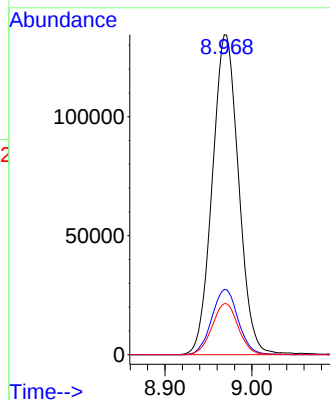
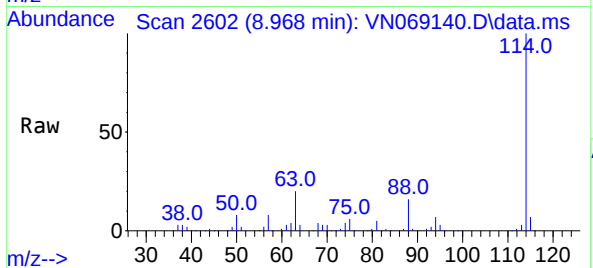
Ion	Ratio	Lower	Upper
114	100		
63	20.6	15.8	23.6
88	15.8	11.6	17.4

Manual Integrations

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Reviewed By :John Carlone 10/25/2021

Supervised By :Mahesh Dadoda 10/25/2021



#30

2-Butanone

Concen: 68.377 ug/l

RT: 7.337 min Scan# 1994

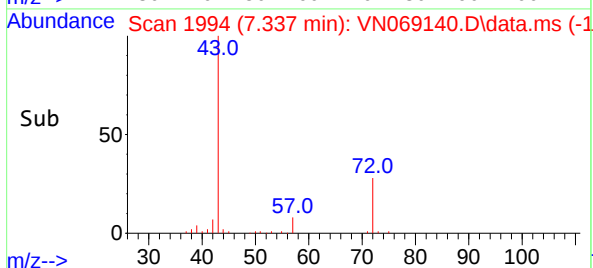
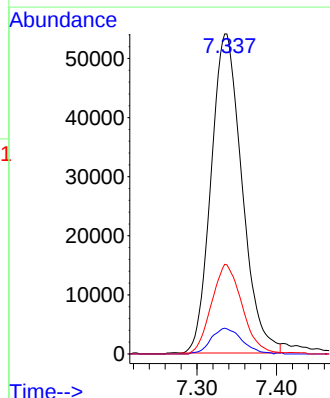
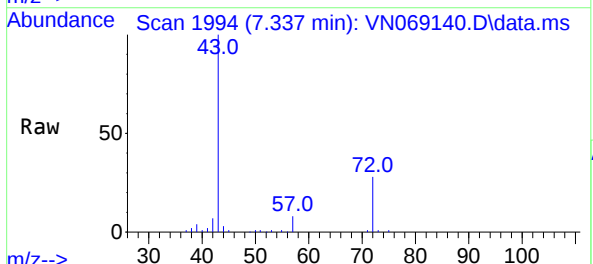
Delta R.T. 0.000 min

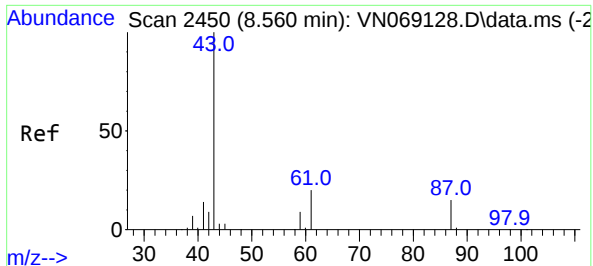
Lab File: VN069140.D

Acq: 22 Oct 2021 17:43

Tgt Ion: 43 Resp: 145755

Ion	Ratio	Lower	Upper
43	100		
57	8.1	6.7	10.1
72	27.8	23.2	34.8





#44

Isopropyl Acetate

Concen: 6.343 ug/l

RT: 8.560 min Scan# 2450

Delta R.T. 0.000 min

Lab File: VN069140.D

Acq: 22 Oct 2021 17:43

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

Tgt Ion: 43 Resp: 48834

Ion Ratio Lower Upper

43 100

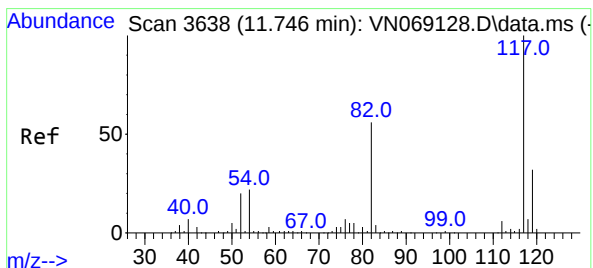
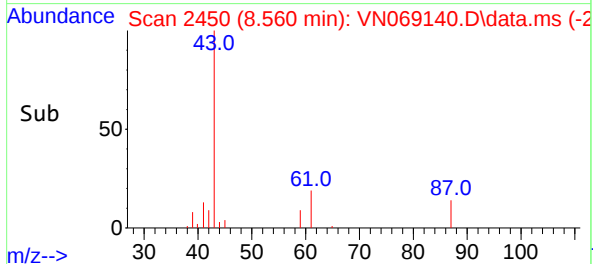
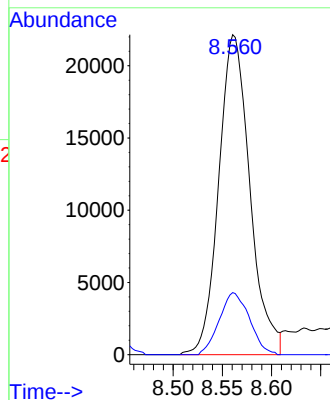
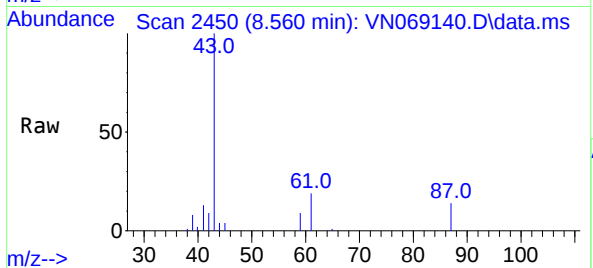
61 18.8 20.1 30.1

Manual Integrations

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Reviewed By :John Carlone 10/25/2021

Supervised By :Mahesh Dadoda 10/25/2021



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.747 min Scan# 3638

Delta R.T. 0.000 min

Lab File: VN069140.D

Acq: 22 Oct 2021 17:43

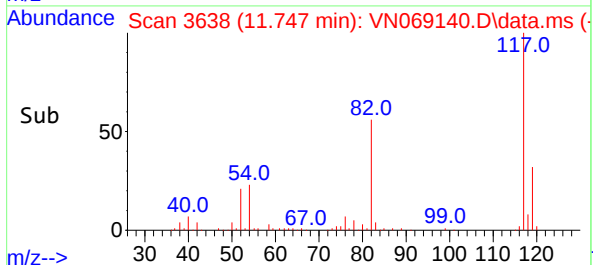
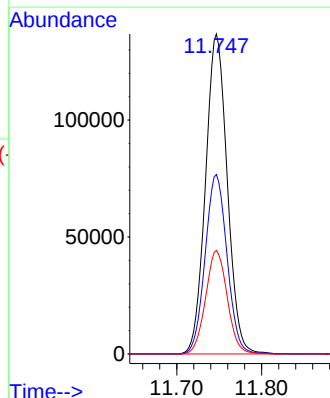
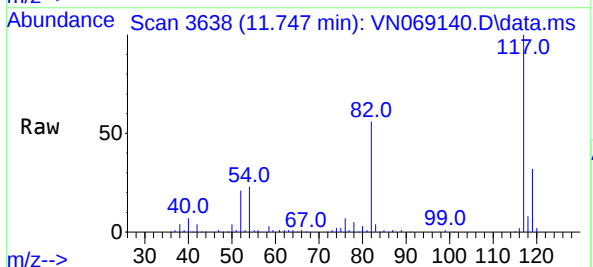
Tgt Ion:117 Resp: 243435

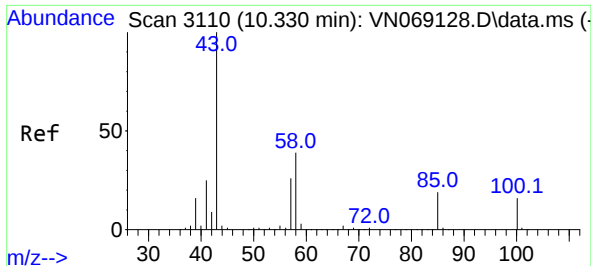
Ion Ratio Lower Upper

117 100

82 56.6 43.6 65.4

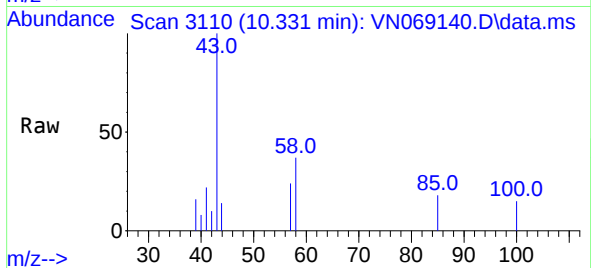
119 32.2 25.8 38.6





#58
4-Methyl-2-Pentanone
Concen: 1.172 ug/l
RT: 10.331 min Scan# 3110
Delta R.T. 0.000 min
Lab File: VN069140.D
Acq: 22 Oct 2021 17:43

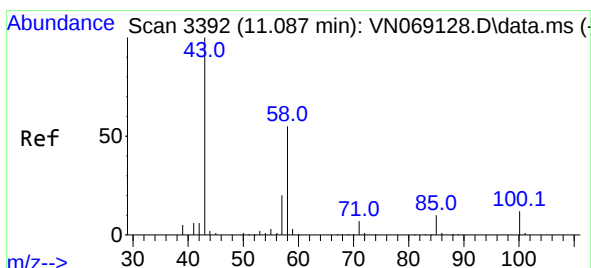
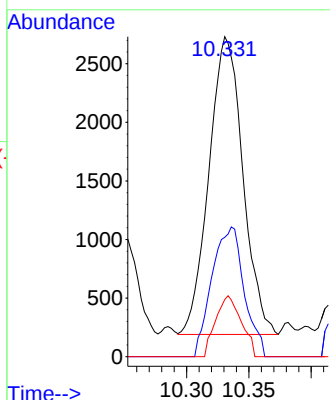
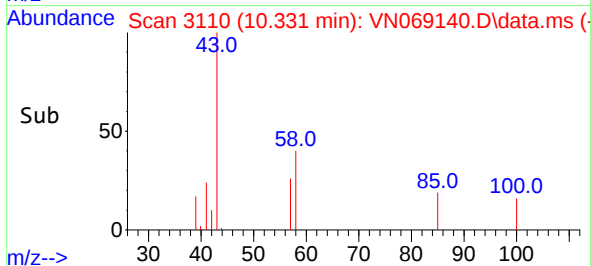
Instrument :
MSVOA_N
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EFF-WW



Tgt Ion: 43 Resp: 4812
Ion Ratio Lower Upper
43 100
58 41.3 30.0 45.0
85 15.4 15.0 22.6

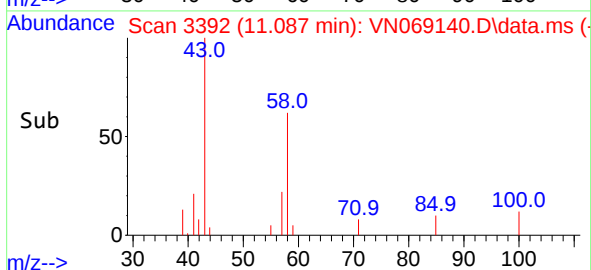
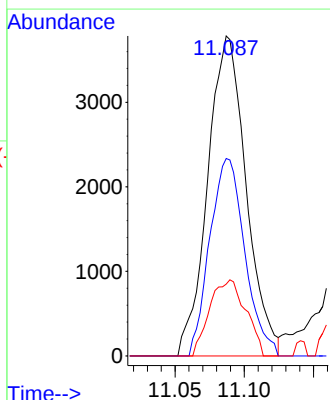
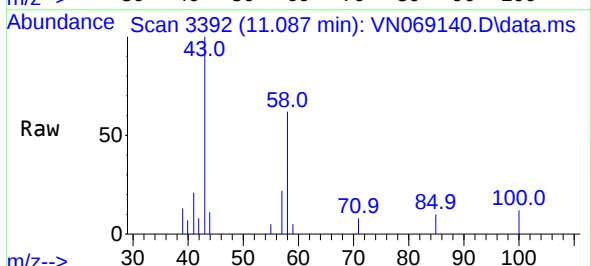
Manual Integrations
APPROVED

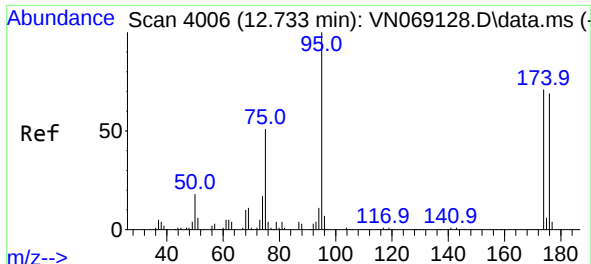
Reviewed By :John Carlone 10/25/2021
Supervised By :Mahesh Dadoda 10/25/2021



#59
2-Hexanone
Concen: 2.357 ug/l
RT: 11.087 min Scan# 3392
Delta R.T. 0.000 min
Lab File: VN069140.D
Acq: 22 Oct 2021 17:43

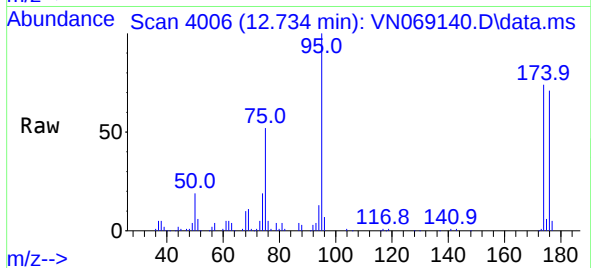
Tgt Ion: 43 Resp: 7310
Ion Ratio Lower Upper
43 100
58 56.2 42.2 63.2
57 22.3 15.0 22.4





#60
4-Bromofluorobenzene
Concen: 26.565 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN069140.D
Acq: 22 Oct 2021 17:43

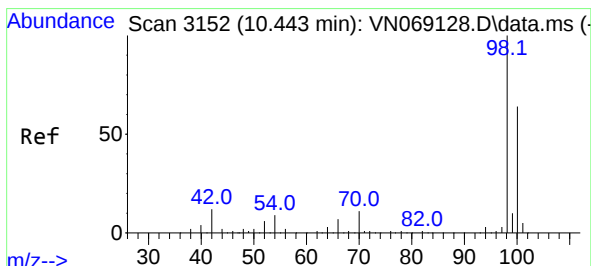
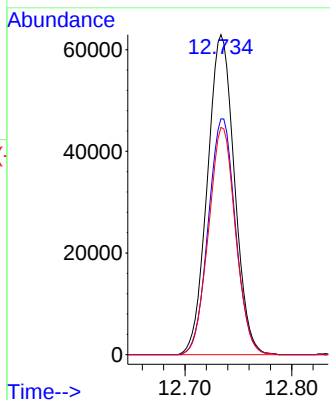
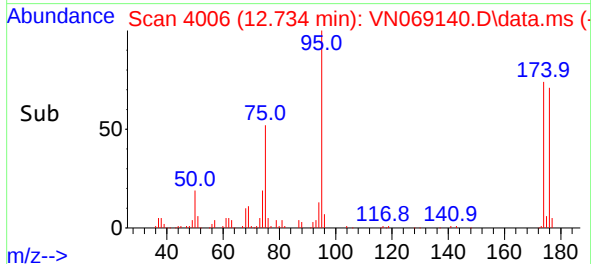
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW



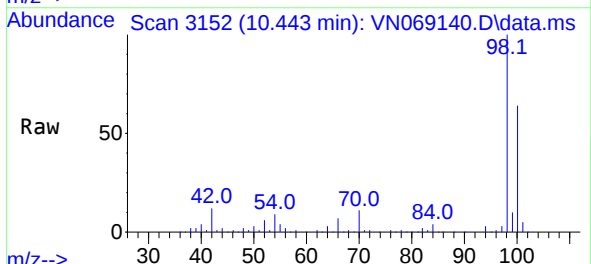
Tgt Ion: 95 Resp: 110884
Ion Ratio Lower Upper
95 100
174 74.1 62.9 94.3
176 70.9 61.0 91.4

Manual Integrations
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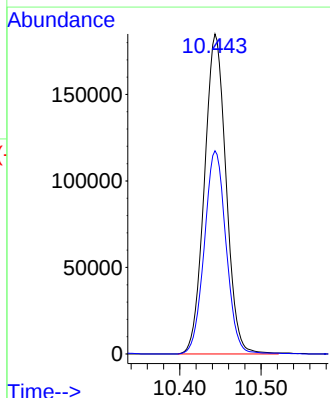
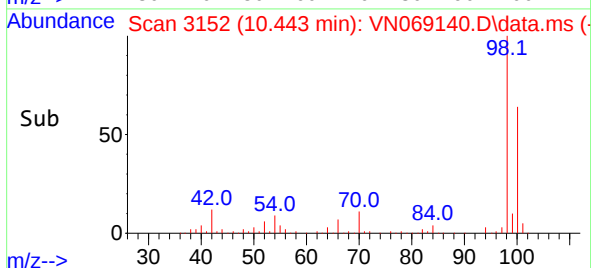
Reviewed By :John Carlone 10/25/2021
Supervised By :Mahesh Dadoda 10/25/2021

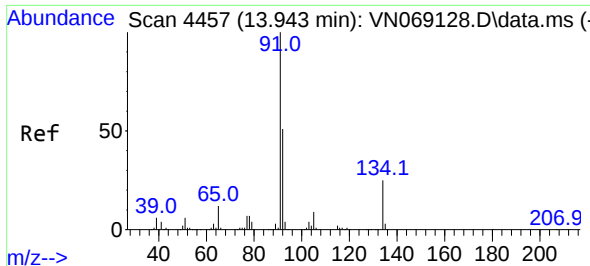


#63
Toluene-d8
Concen: 31.107 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069140.D
Acq: 22 Oct 2021 17:43



Tgt Ion: 98 Resp: 342128
Ion Ratio Lower Upper
98 100
100 63.6 50.6 76.0





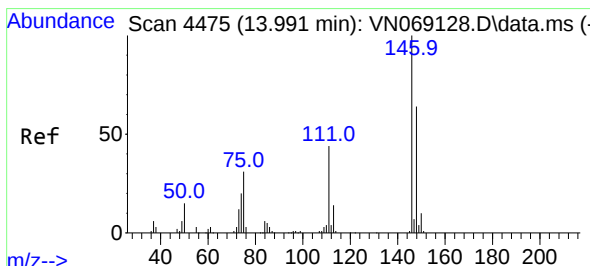
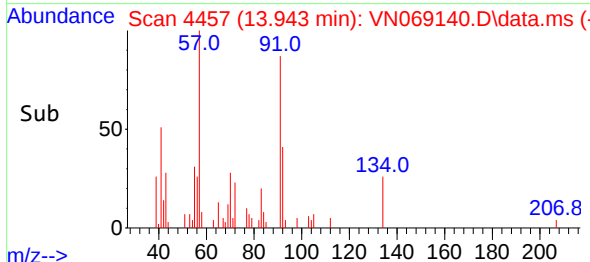
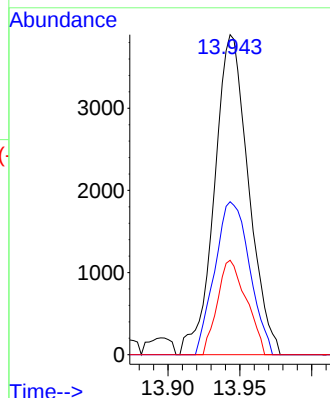
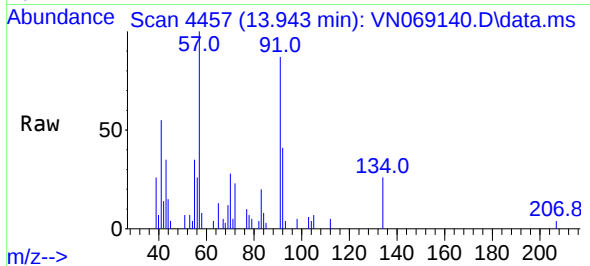
#85
n-Butylbenzene
Concen: 0.583 ug/l
RT: 13.943 min Scan# 4457
Delta R.T. 0.000 min
Lab File: VN069140.D
Acq: 22 Oct 2021 17:43

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Tgt Ion: 91 Resp: 6408
Ion Ratio Lower Upper
91 100
92 48.9 0.0 100.6
134 25.0 0.0 50.2

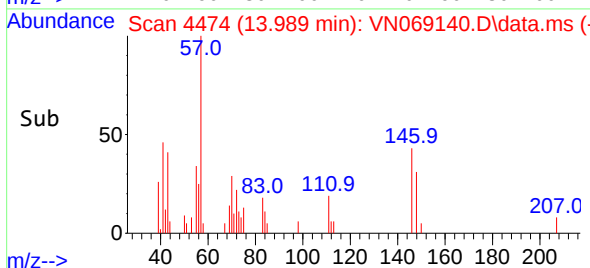
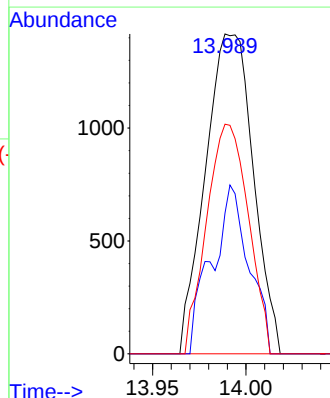
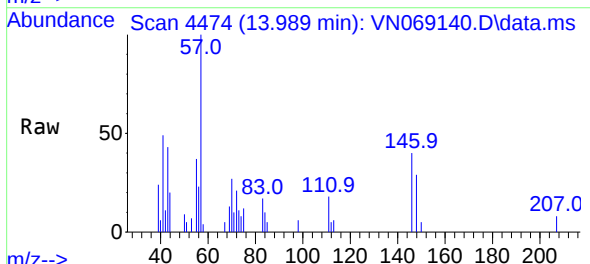
Manual Integrations
APPROVED

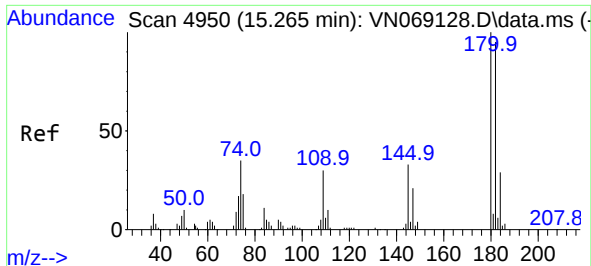
Reviewed By :John Carlone 10/25/2021
Supervised By :Mahesh Dadoda 10/25/2021



#87
1,2-Dichlorobenzene
Concen: 0.421 ug/l
RT: 13.989 min Scan# 4474
Delta R.T. -0.002 min
Lab File: VN069140.D
Acq: 22 Oct 2021 17:43

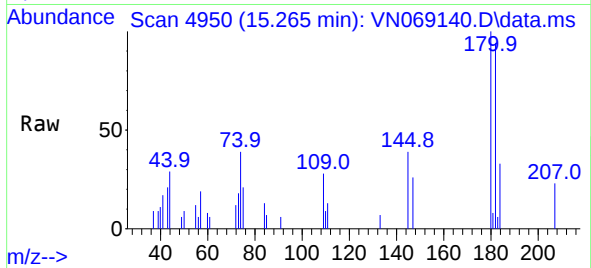
Tgt Ion:146 Resp: 2529
Ion Ratio Lower Upper
146 100
111 30.0 21.4 64.2
148 62.6 32.5 97.4





#89
1,2,4-Trichlorobenzene
Concen: 1.625 ug/l m
RT: 15.265 min Scan# 491
Delta R.T. 0.000 min
Lab File: VN069140.D
Acq: 22 Oct 2021 17:43

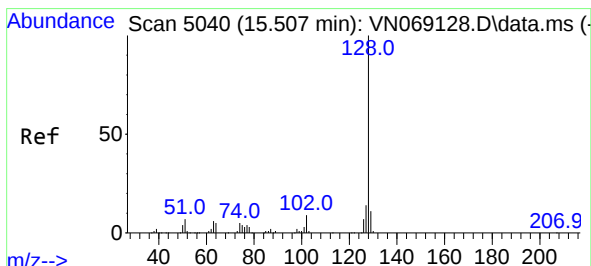
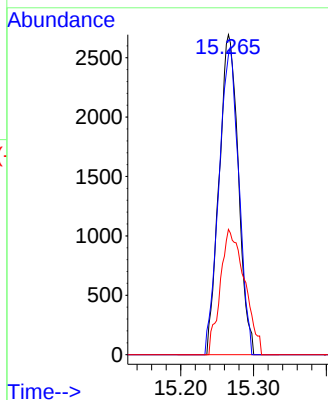
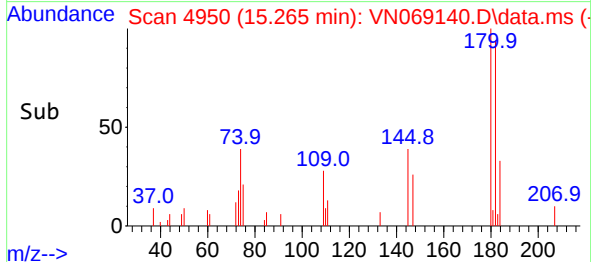
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW



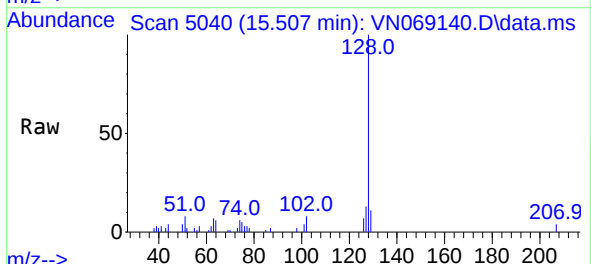
Tgt Ion:180 Resp: 491
Ion Ratio Lower Upper
180 100
182 116.7 77.7 116.5
145 43.1 26.6 39.8

Manual Integrations
APPROVED

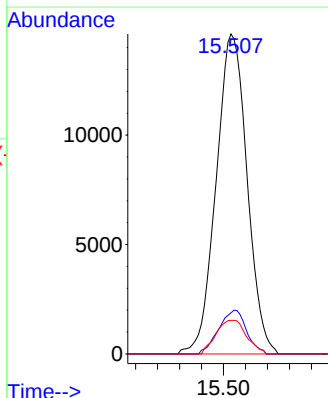
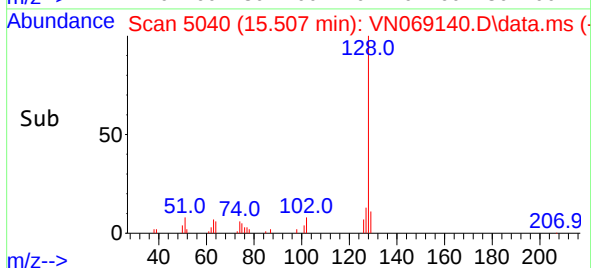
Reviewed By :John Carlone 10/25/2021
Supervised By :Mahesh Dadoda 10/25/2021

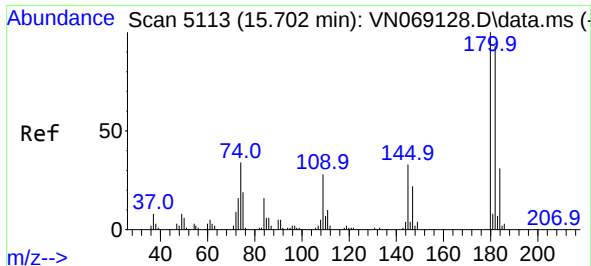


#91
Naphthalene
Concen: 3.264 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. 0.000 min
Lab File: VN069140.D
Acq: 22 Oct 2021 17:43



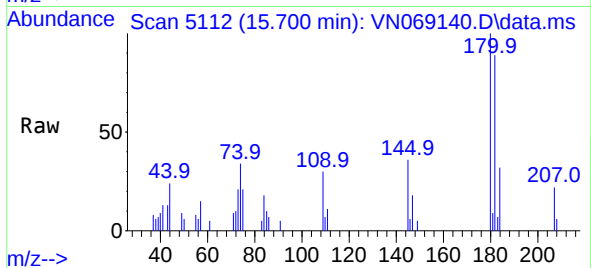
Tgt Ion:128 Resp: 28567
Ion Ratio Lower Upper
128 100
127 12.3 10.7 16.1
129 10.4 9.0 13.6





#92
 1,2,3-Trichlorobenzene
 Concen: 2.141 ug/l
 RT: 15.700 min Scan# 51
 Delta R.T. -0.002 min
 Lab File: VN069140.D
 Acq: 22 Oct 2021 17:43

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW



Tgt Ion:180 Resp: 6189
 Ion Ratio Lower Upper
 180 100
 182 92.7 0.0 190.0
 145 34.2 0.0 67.8

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/25/2021
 Supervised By :Mahesh Dadoda 10/25/2021

