

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061122\
 Data File : VN072792.D
 Acq On : 11 Jun 2022 16:55
 Operator : JC\MD
 Sample : N3283-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 220608036-02-VOA

Quant Time: Jun 13 01:20:28 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N060622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 06 14:10:15 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 06/13/2022
 Supervised By :Mahesh Dadoda 06/13/2022

06/13/2022
 Supervised By :Mahesh
 Dadoda

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	D
-----							06
Internal Standards							
1) Bromochloromethane	7.651	128	33395	30.000	ug/l	0.00	
28) 1,4-Difluorobenzene	8.963	114	199446	30.000	ug/l	# 0.00	
57) Chlorobenzene-d5	11.739	117	172376	30.000	ug/l	0.00	
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.434	65	125105	32.848	ug/l	0.00	
Spiked Amount	30.000	Range	91 - 110	Recovery	=	109.500%	
60) 4-Bromofluorobenzene	12.727	95	97592	27.527	ug/l	0.00	
Spiked Amount	30.000	Range	63 - 112	Recovery	=	91.767%	
63) Toluene-d8	10.439	98	297479	31.153	ug/l	0.00	
Spiked Amount	30.000	Range	91 - 112	Recovery	=	103.833%	
Target Compounds					Qvalue		
3) Chloromethane	2.293	50	642	0.236	ug/l	91	
4) Vinyl Chloride	2.434	62	1083	0.442	ug/l	# 77	
8) Diethyl Ether	3.822	74	3526	2.051	ug/l	77	
15) Acetone	4.275	58	67864m	135.077	ug/l		
16) Carbon Disulfide	4.528	76	2285	0.411	ug/l	# 73	
23) tert-Butyl Alcohol	5.357	59	1911606	2213.756	ug/l	# 100	
24) Methyl tert-Butyl Ether	5.610	73	27794m	2.832	ug/l		
30) 2-Butanone	7.328	43	388321	141.133	ug/l	# 87	
34) Benzene	8.451	78	39195	3.485	ug/l	# 47	
45) 1,4-Dioxane	9.569	88	5854	81.464	ug/l	# 78	
58) 4-Methyl-2-Pentanone	10.322	43	15783	3.053	ug/l	# 87	
62) Toluene	10.504	91	34712	2.970	ug/l	96	
64) Chlorobenzene	11.769	112	13268	1.865	ug/l	95	
66) Ethyl Benzene	11.839	91	101719	7.580	ug/l	98	
67) m/p-Xylenes	11.951	106	32446	6.629	ug/l	85	
68) o-Xylene	12.274	106	21203	4.246	ug/l	94	
70) Isopropylbenzene	12.574	105	11726	0.899	ug/l	97	
74) n-propylbenzene	12.916	91	5612	0.376	ug/l	96	
76) 1,3,5-Trimethylbenzene	13.051	105	6611	0.617	ug/l	100	
82) p-Isopropyltoluene	13.616	119	10882	1.056	ug/l	93	
84) 1,4-Dichlorobenzene	13.692	146	14464	3.208	ug/l	96	
89) 1,2,4-Trichlorobenzene	15.257	180	1110	0.479	ug/l	# 78	
91) Naphthalene	15.504	128	208696	22.587	ug/l	99	
92) 1,2,3-Trichlorobenzene	15.698	180	1889m	0.802	ug/l		

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

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Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA

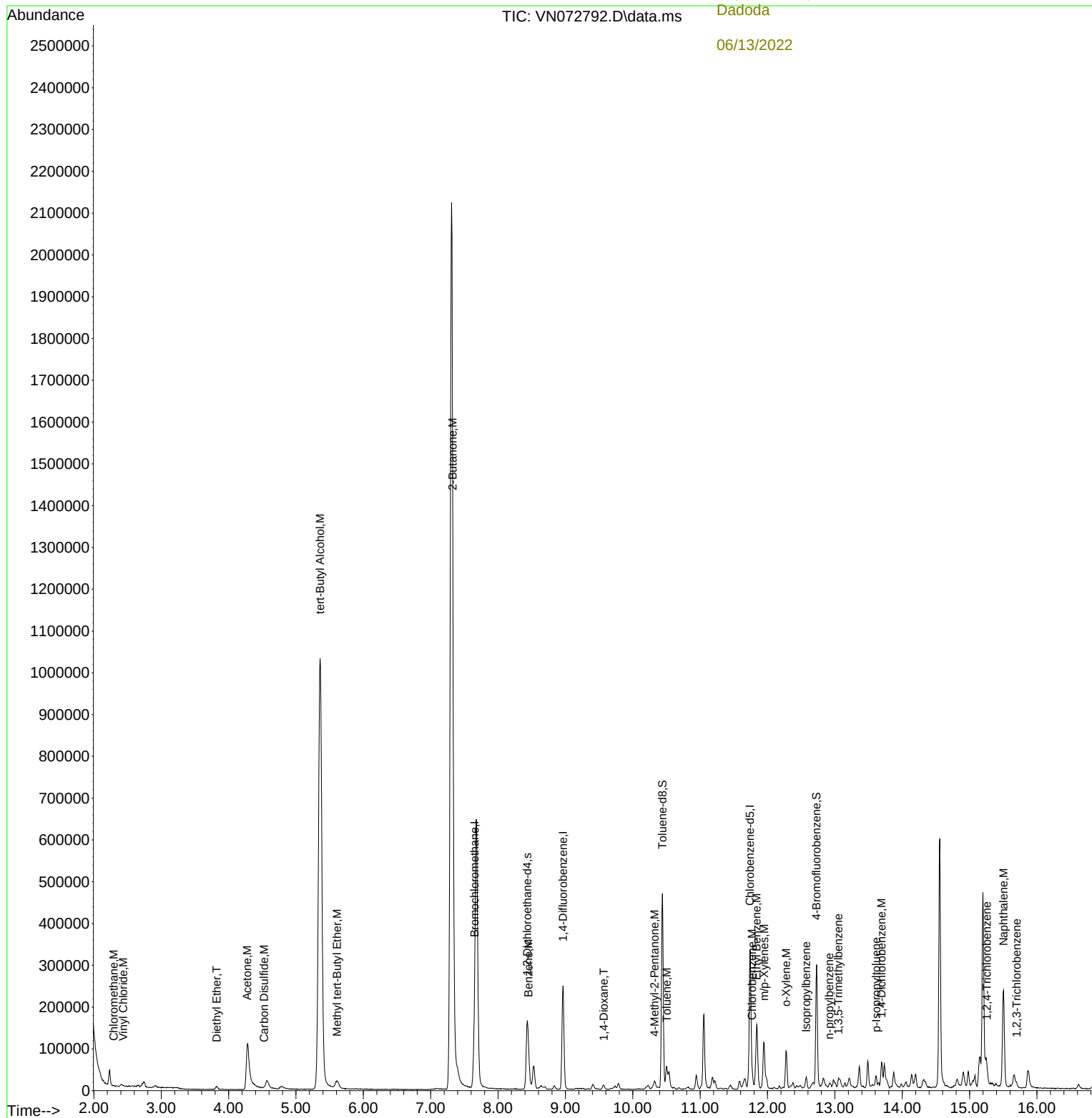
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N060622W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Jun 06 14:10:15 2022
Response via : Initial Calibration

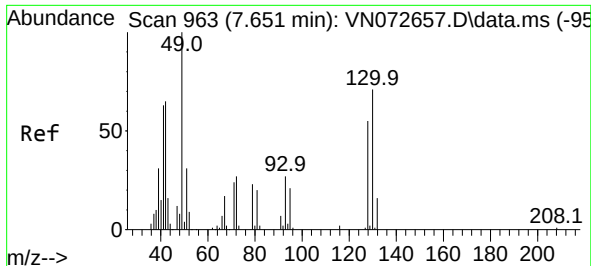
Manual Integrations
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Reviewed By :John Carlone 06/13/2022
Supervised By :Mahesh Dadoda 06/13/2022

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Dadoda

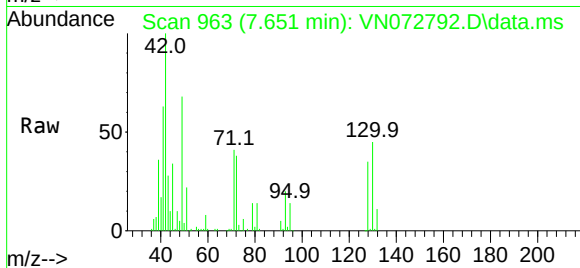
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#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.651 min Scan# 90
Delta R.T. 0.000 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



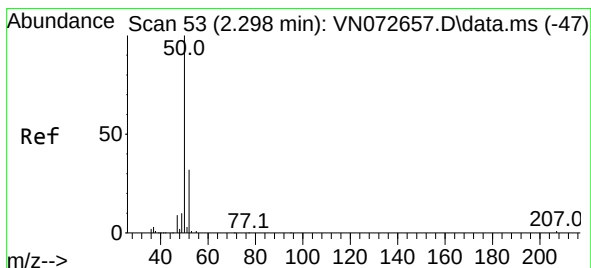
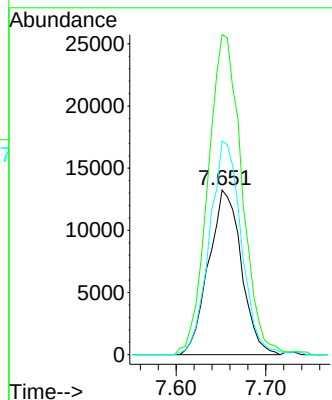
Tgt Ion:128 Resp: 3339
Ion Ratio Lower Upper
128 100
49 201.6 0.0 392.3
130 127.0 0.0 320.2

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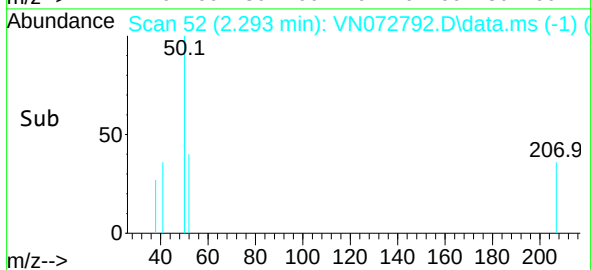
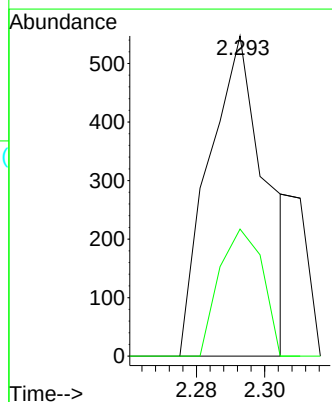
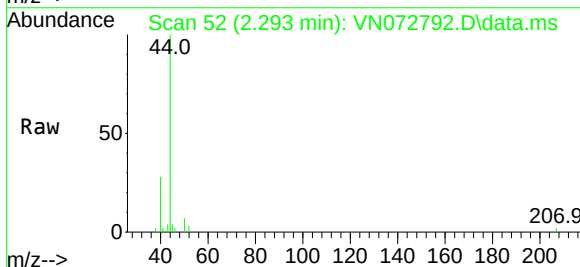
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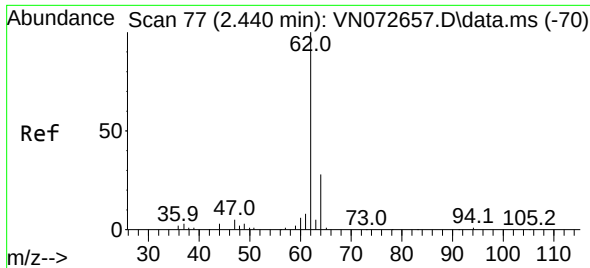
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#3
Chloromethane
Concen: 0.236 ug/l
RT: 2.293 min Scan# 52
Delta R.T. -0.006 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

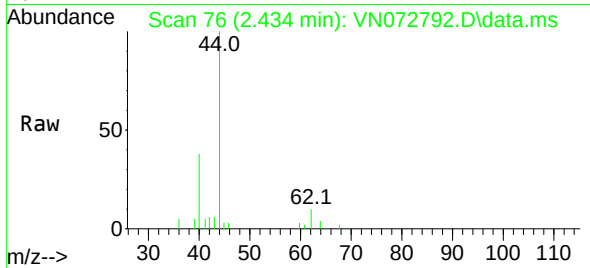
Tgt Ion: 50 Resp: 642
Ion Ratio Lower Upper
50 100
52 39.7 27.8 41.6





#4
 Vinyl Chloride
 Concen: 0.442 ug/l
 RT: 2.434 min Scan# 70
 Delta R.T. -0.006 min
 Lab File: VN072792.D
 Acq: 11 Jun 2022 16:55

Instrument :
 MSVOA_N
 ClientSampleId :
 220608036-02-VOA



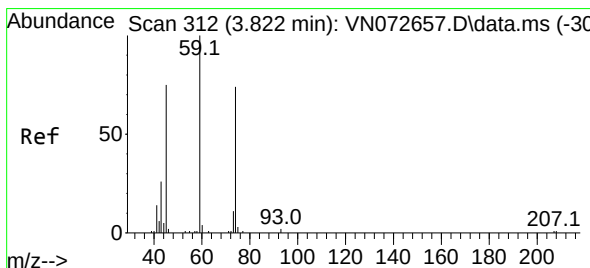
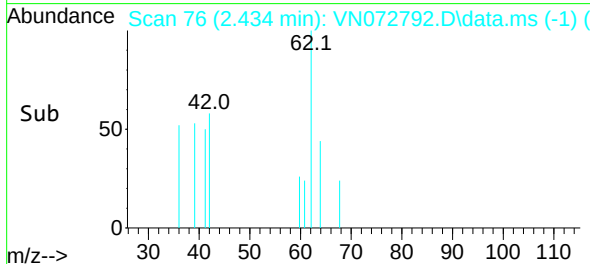
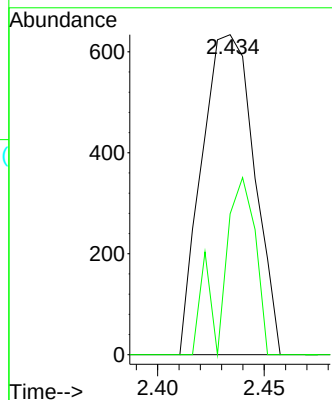
Tgt Ion: 62 Resp: 1083
 Ion Ratio Lower Upper
 62 100
 64 44.0 25.1 37.7

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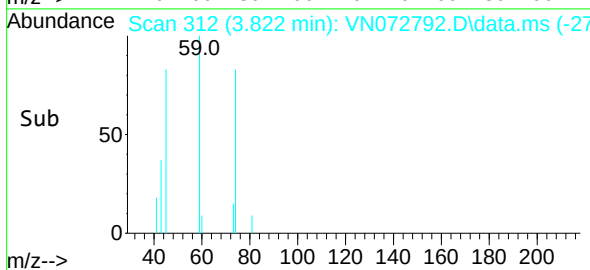
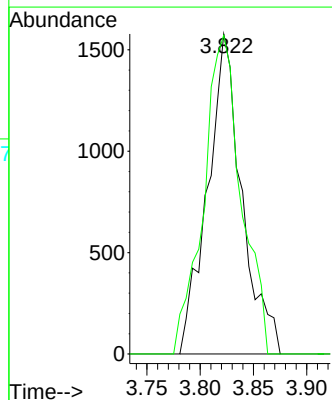
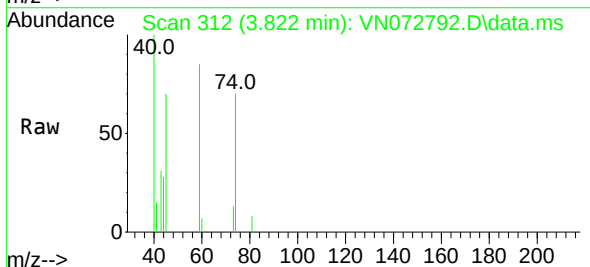
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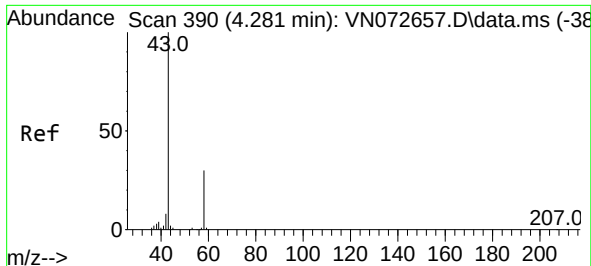
06/13/2022



#8
 Diethyl Ether
 Concen: 2.051 ug/l
 RT: 3.822 min Scan# 312
 Delta R.T. 0.000 min
 Lab File: VN072792.D
 Acq: 11 Jun 2022 16:55

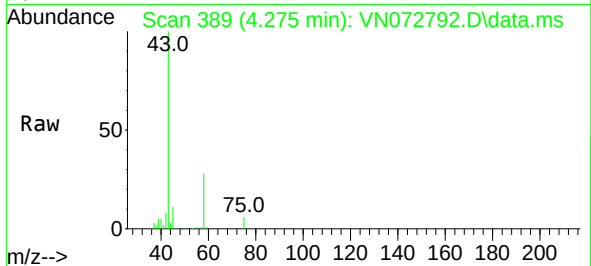
Tgt Ion: 74 Resp: 3526
 Ion Ratio Lower Upper
 74 100
 45 109.4 17.6 158.8





#15
Acetone
Concen: 135.077 ug/l m
RT: 4.275 min Scan# 389
Delta R.T. -0.006 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

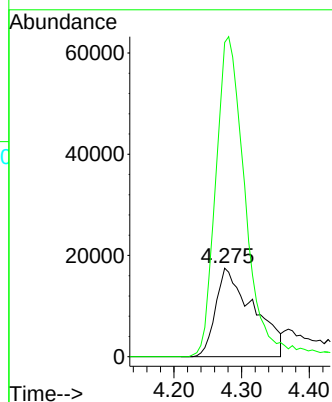
Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



Tgt Ion: 58 Resp: 67864
Ion Ratio Lower Upper
58 100
43 355.0 256.6 384.8

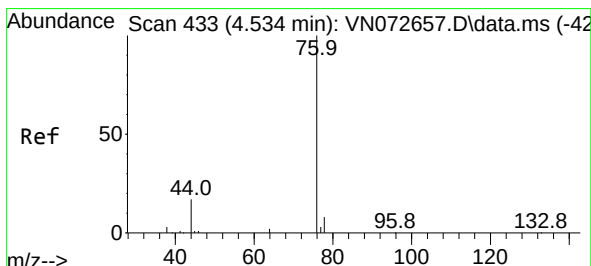
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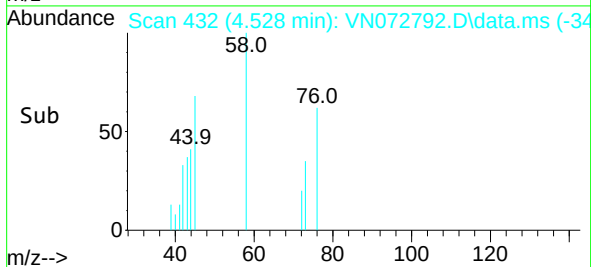
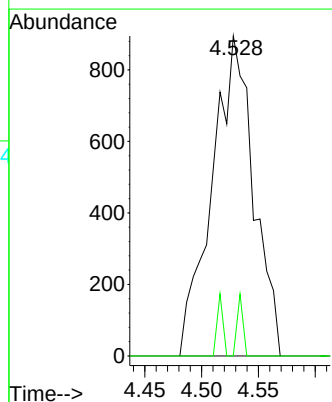
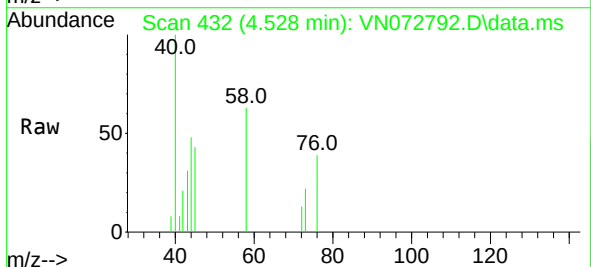
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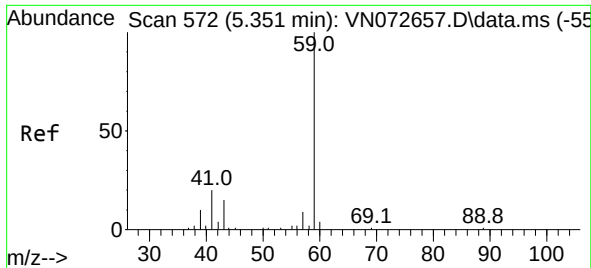
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#16
Carbon Disulfide
Concen: 0.411 ug/l
RT: 4.528 min Scan# 432
Delta R.T. -0.006 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

Tgt Ion: 76 Resp: 2285
Ion Ratio Lower Upper
76 100
78 0.0 7.8 11.8#





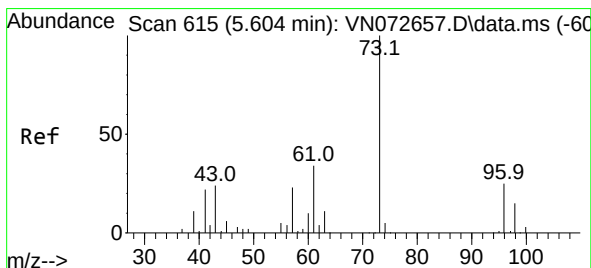
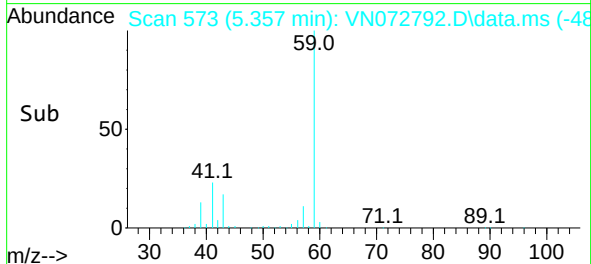
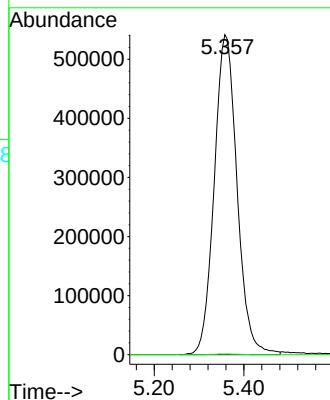
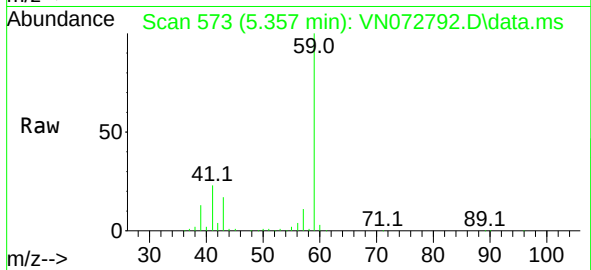
#23
tert-Butyl Alcohol
Concen: 2213.756 ug/l
RT: 5.357 min Scan# 511
Delta R.T. 0.006 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA

Tgt Ion: 59 Resp: 1911600
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0

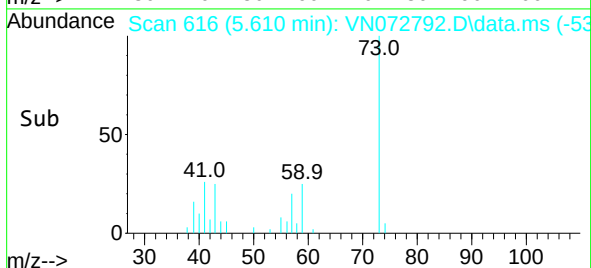
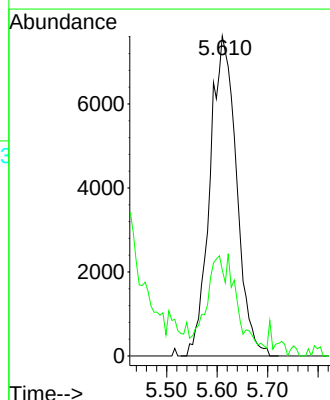
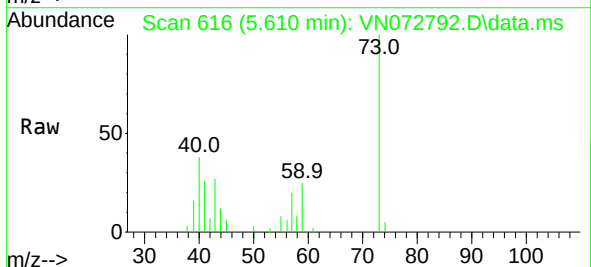
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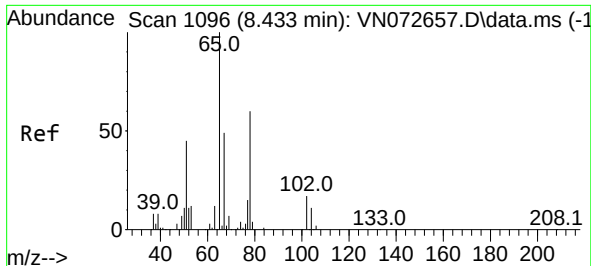
Reviewed By :John Carlone 06/13/2022
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#24
Methyl tert-Butyl Ether
Concen: 2.832 ug/l m
RT: 5.610 min Scan# 616
Delta R.T. 0.006 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

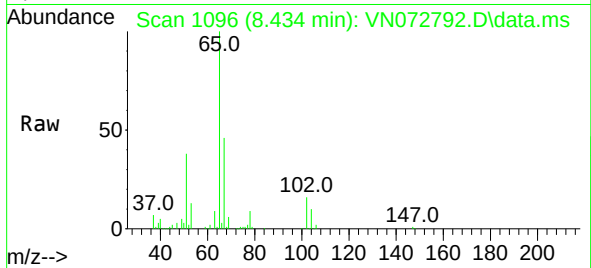
Tgt Ion: 73 Resp: 27794
Ion Ratio Lower Upper
73 100
43 16.2 18.1 27.1#





#27
1,2-Dichloroethane-d4
Concen: 32.848 ug/l
RT: 8.434 min Scan# 1096
Delta R.T. 0.000 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

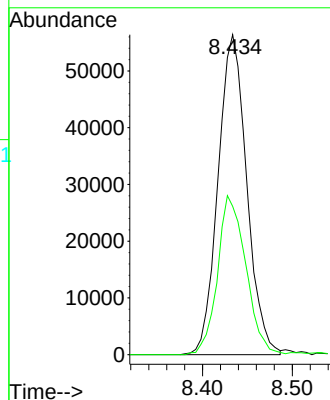
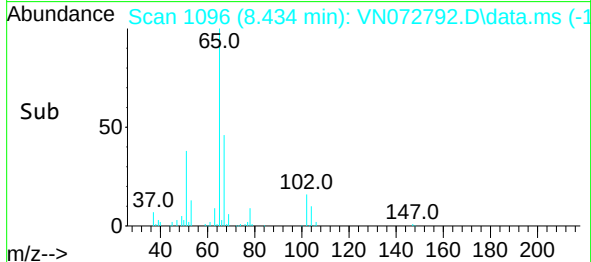
Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



Tgt Ion: 65 Resp: 12510
Ion Ratio Lower Upper
65 100
67 49.0 40.2 60.2

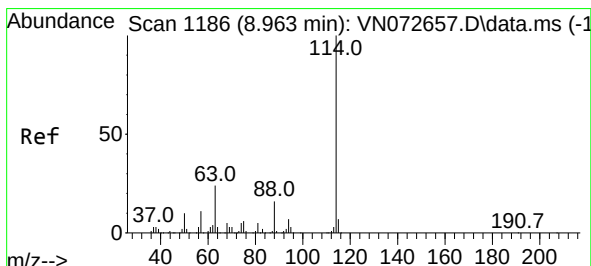
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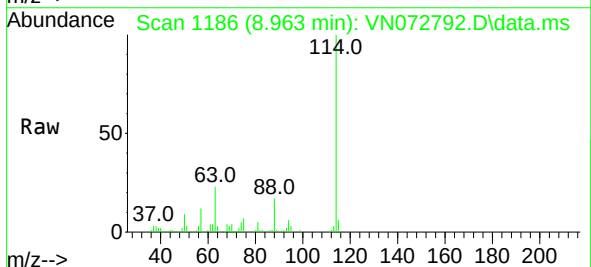


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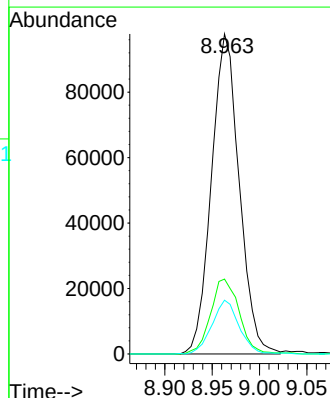
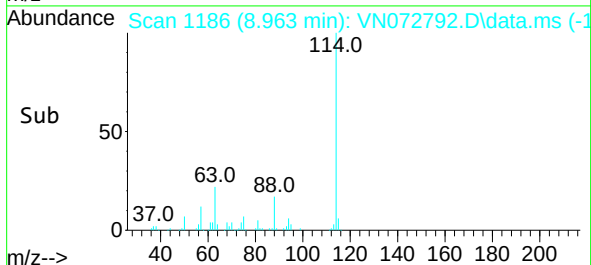
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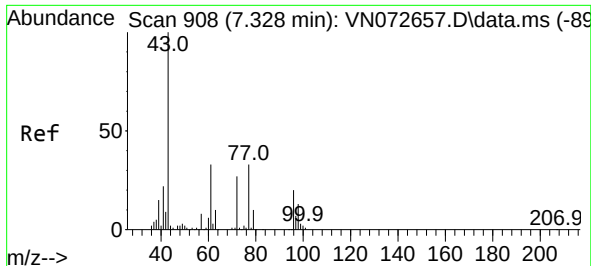


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. 0.000 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55



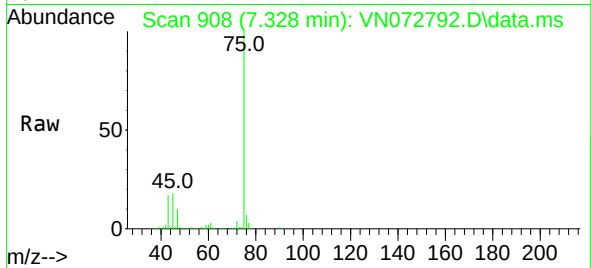
Tgt Ion:114 Resp: 199446
Ion Ratio Lower Upper
114 100
63 24.2 15.8 23.6#
88 16.4 11.6 17.4





#30
2-Butanone
Concen: 141.133 ug/l
RT: 7.328 min Scan# 908
Delta R.T. 0.000 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



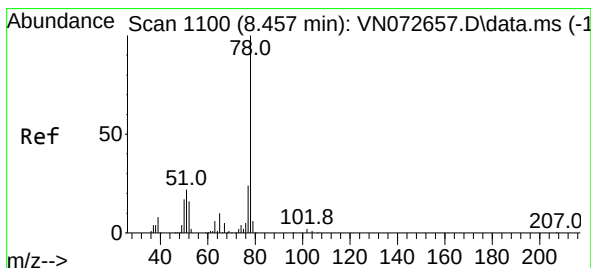
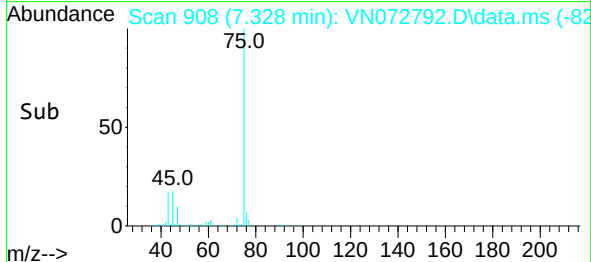
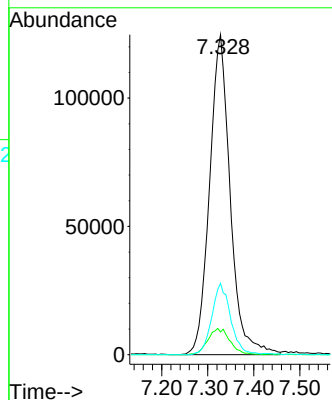
Tgt Ion: 43 Resp: 38832
Ion Ratio Lower Upper
43 100
57 8.7 6.7 10.1
72 20.2 23.2 34.8

Manual Integrations
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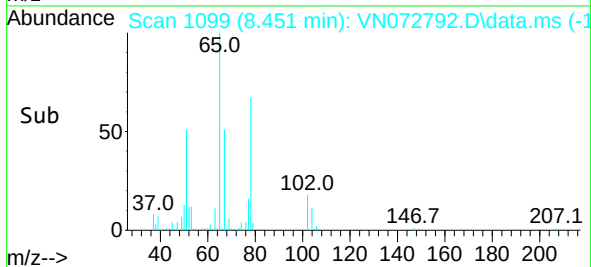
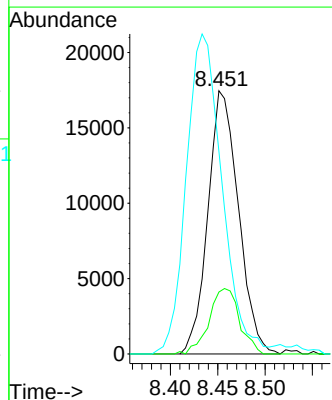
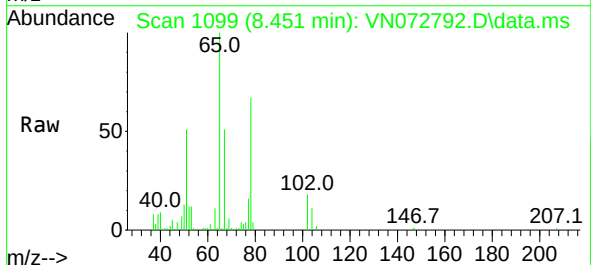
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Dadoda

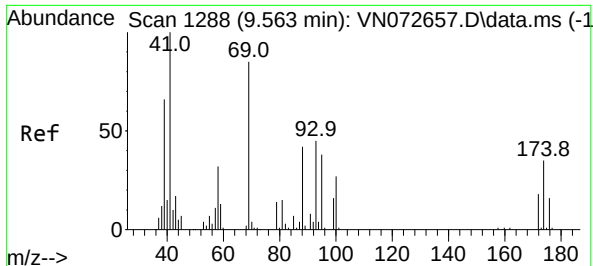
06/13/2022



#34
Benzene
Concen: 3.485 ug/l
RT: 8.451 min Scan# 1099
Delta R.T. -0.006 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

Tgt Ion: 78 Resp: 39195
Ion Ratio Lower Upper
78 100
77 23.5 19.1 28.7
51 73.4 16.0 24.0





#45

1,4-Dioxane

Concen: 81.464 ug/l

RT: 9.569 min Scan# 1288

Delta R.T. 0.006 min

Lab File: VN072792.D

Acq: 11 Jun 2022 16:55

Instrument :

MSVOA_N

ClientSampleId :

220608036-02-VOA

Tgt Ion: 88	Resp: 5854
Ion Ratio	Lower Upper
88 100	
43 45.5	25.0 37.6
58 77.2	49.4 74.2

Manual Integrations

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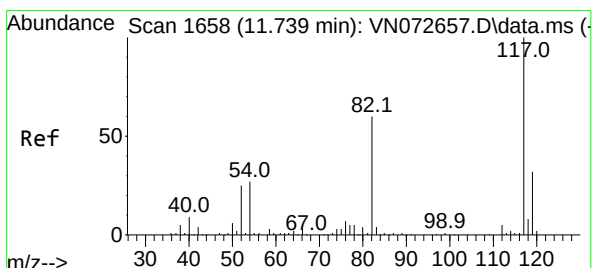
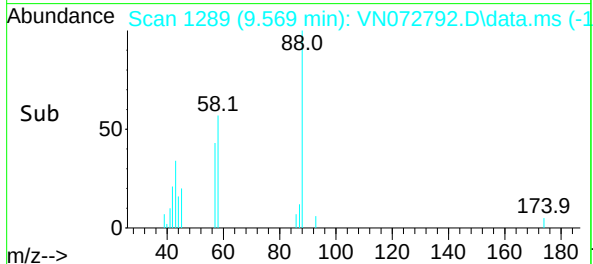
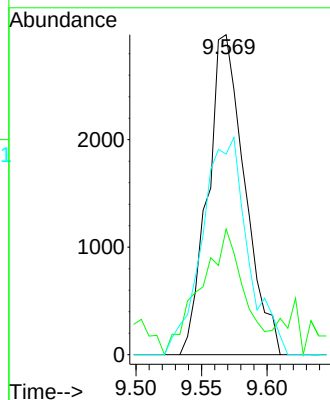
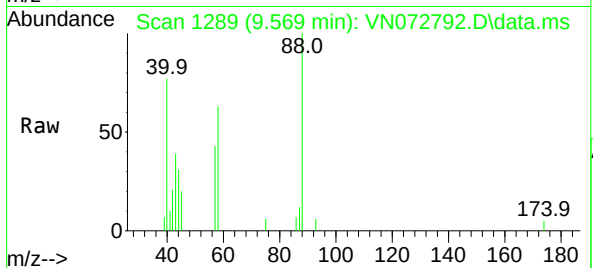
Reviewed By :John Carlone 06/13/2022

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Dadoda

06/13/2022



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

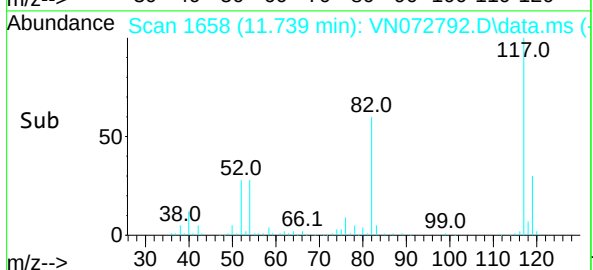
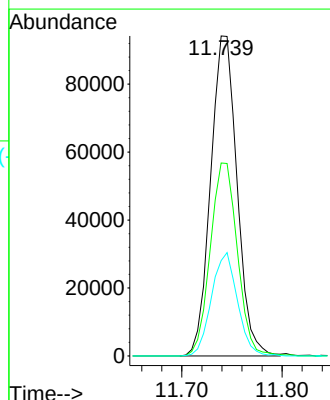
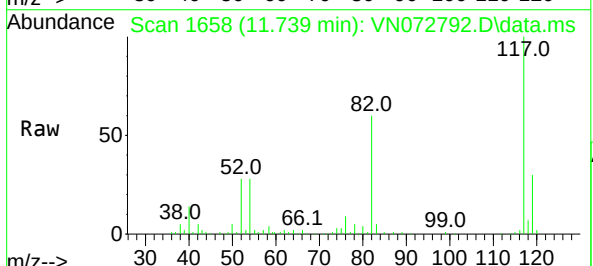
RT: 11.739 min Scan# 1658

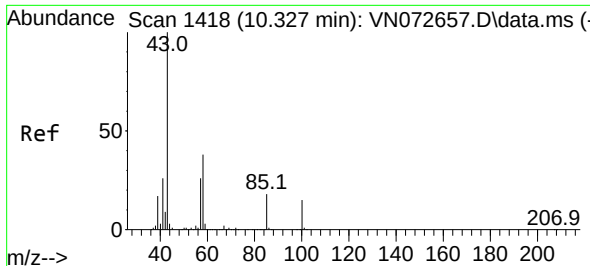
Delta R.T. 0.000 min

Lab File: VN072792.D

Acq: 11 Jun 2022 16:55

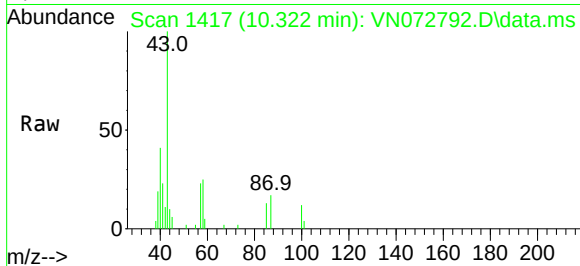
Tgt Ion: 117	Resp: 172376
Ion Ratio	Lower Upper
117 100	
82 61.9	43.6 65.4
119 31.7	25.8 38.6





#58
4-Methyl-2-Pentanone
Concen: 3.053 ug/l
RT: 10.322 min Scan# 1418
Delta R.T. -0.006 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



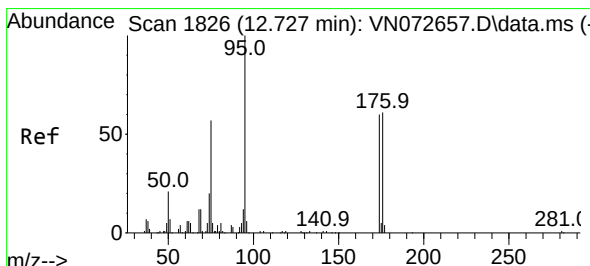
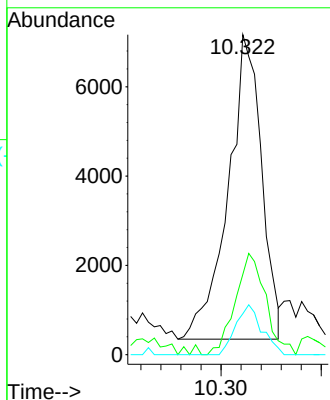
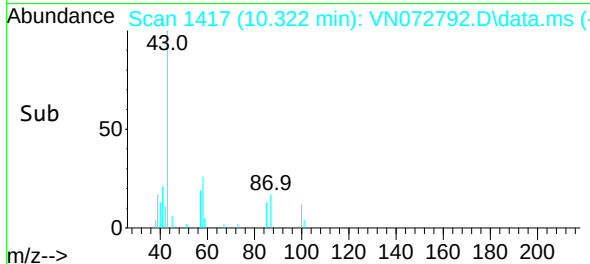
Tgt Ion: 43 Resp: 15783
Ion Ratio Lower Upper
43 100
58 30.2 30.0 45.0
85 12.8 15.0 22.6

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Reviewed By :John Carlone 06/13/2022
Supervised By :Mahesh Dadoda 06/13/2022

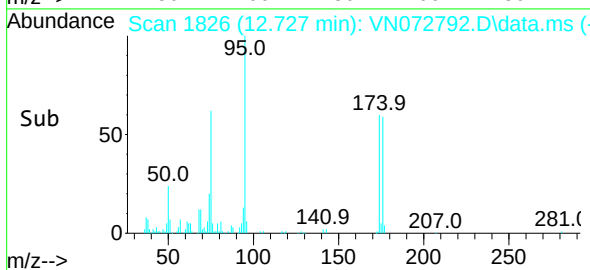
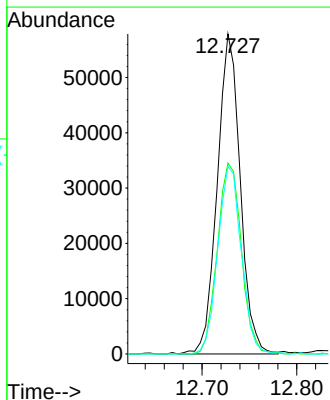
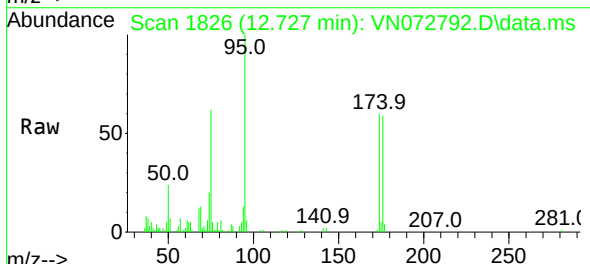
06/13/2022
Supervised By :Mahesh
Dadoda

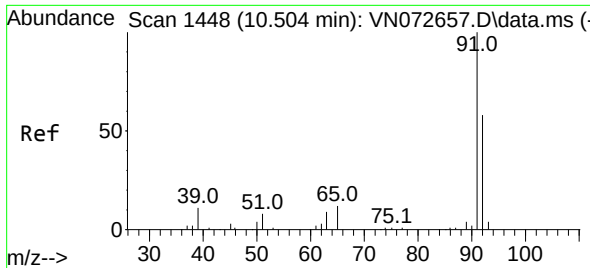
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#60
4-Bromofluorobenzene
Concen: 27.527 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

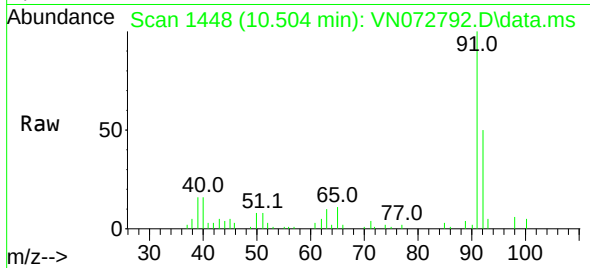
Tgt Ion: 95 Resp: 97592
Ion Ratio Lower Upper
95 100
174 62.5 62.9 94.3#
176 60.2 61.0 91.4#





#62
Toluene
Concen: 2.970 ug/l
RT: 10.504 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

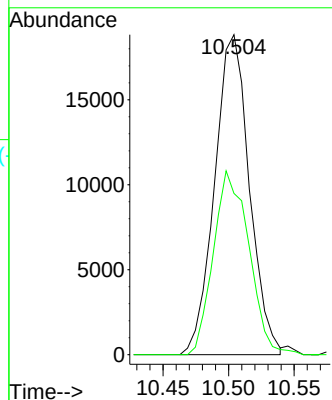
Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



Tgt Ion: 91 Resp: 34712
Ion Ratio Lower Upper
91 100
92 58.7 44.6 67.0

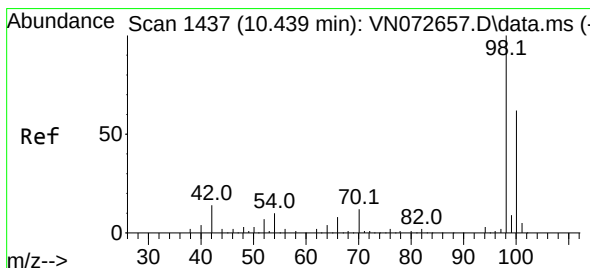
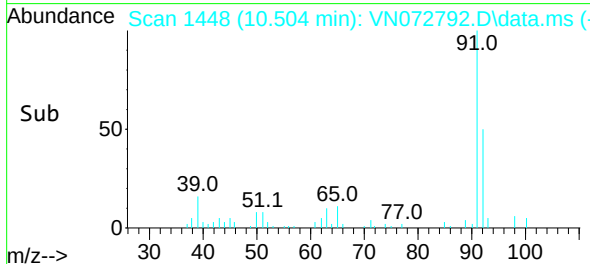
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Supervised By :Mahesh Dadoda 06/13/2022



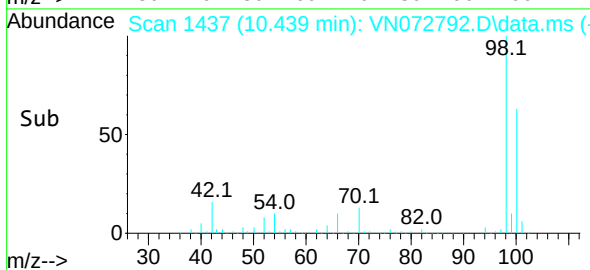
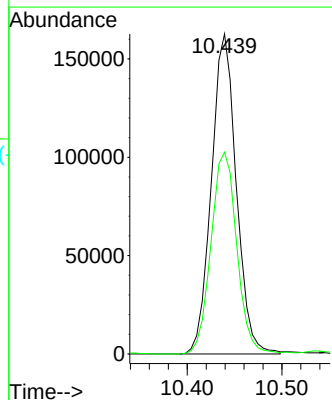
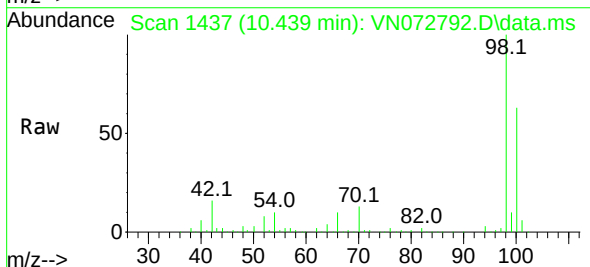
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Supervised By :Mahesh
Dadoda

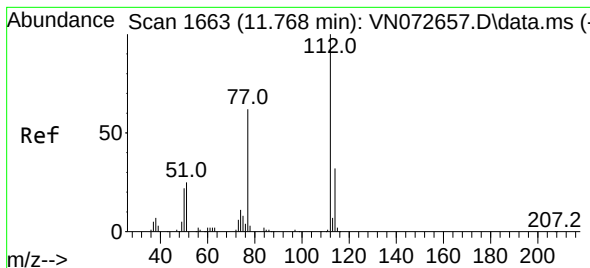
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#63
Toluene-d8
Concen: 31.153 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

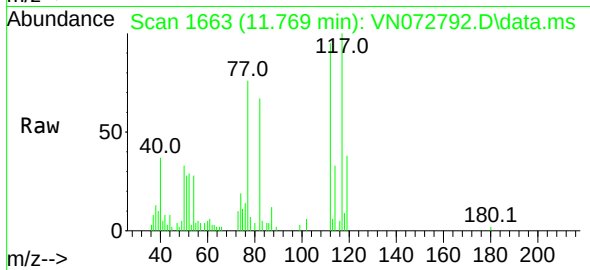
Tgt Ion: 98 Resp: 297479
Ion Ratio Lower Upper
98 100
100 65.2 50.6 76.0





#64
Chlorobenzene
Concen: 1.865 ug/l
RT: 11.769 min Scan# 1663
Delta R.T. 0.000 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

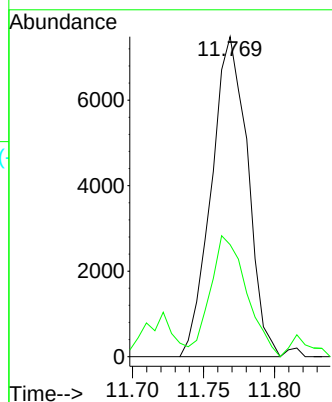
Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



Tgt Ion: 112 Resp: 1326
Ion Ratio Lower Upper
112 100
114 35.0 25.8 38.6

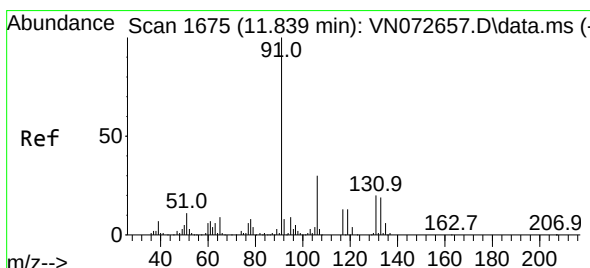
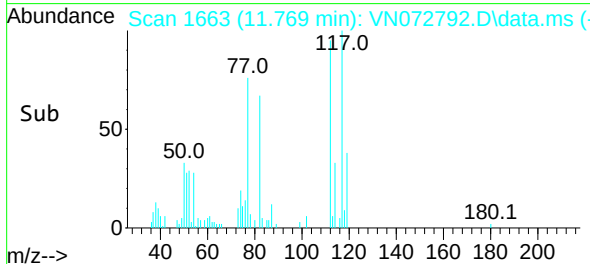
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Supervised By :Mahesh Dadoda 06/13/2022



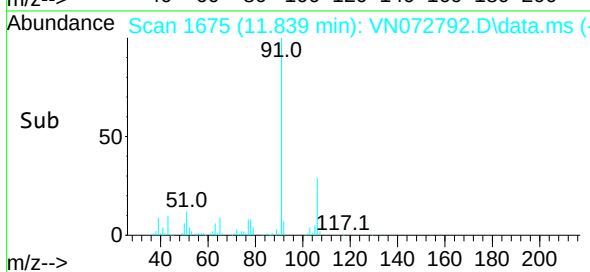
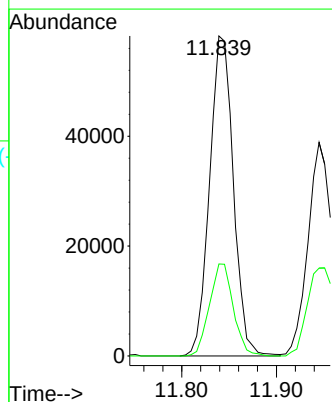
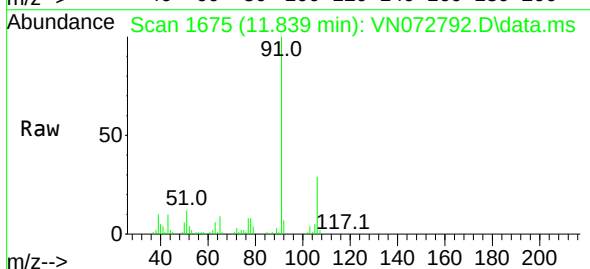
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Supervised By :Mahesh
Dadoda

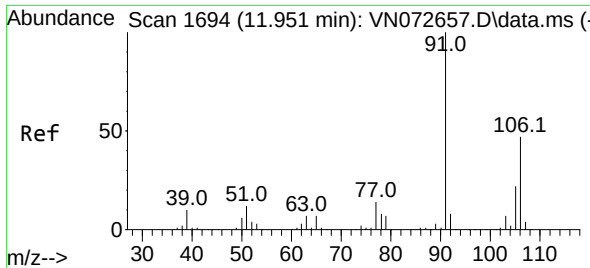
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#66
Ethyl Benzene
Concen: 7.580 ug/l
RT: 11.839 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

Tgt Ion: 91 Resp: 101719
Ion Ratio Lower Upper
91 100
106 28.8 24.0 36.0





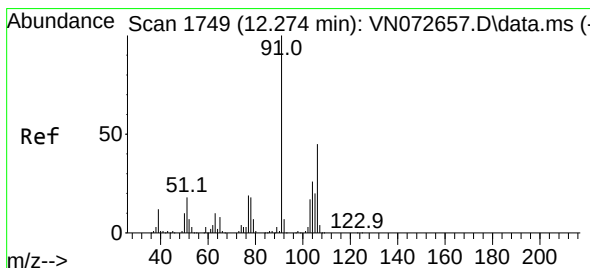
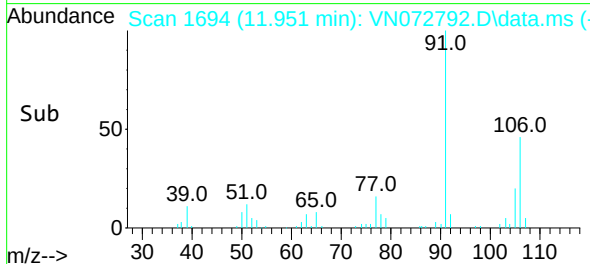
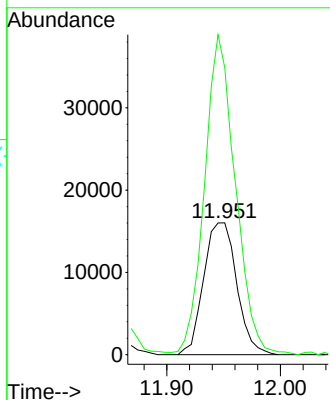
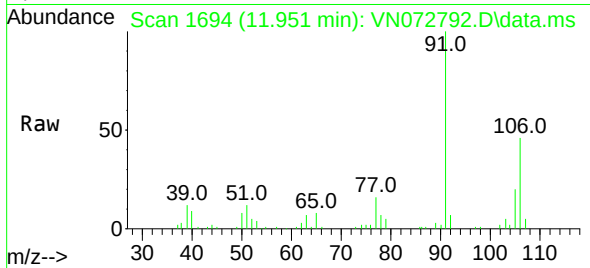
#67
m/p-Xylenes
Concen: 6.629 ug/l
RT: 11.951 min Scan# 1694
Delta R.T. 0.000 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA

Tgt Ion:106 Resp: 32440
Ion Ratio Lower Upper
106 100
91 226.3 162.9 244.3

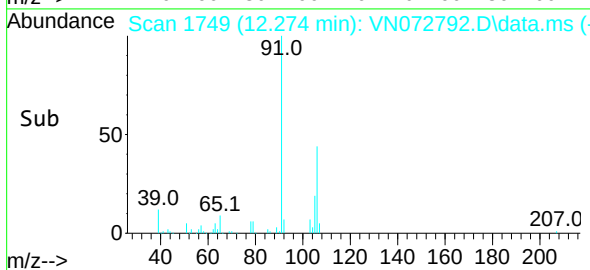
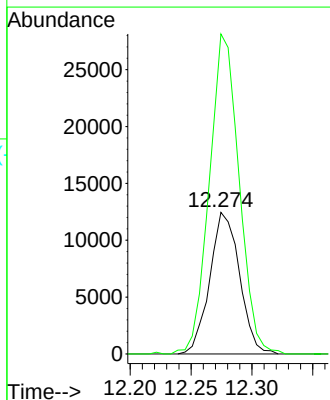
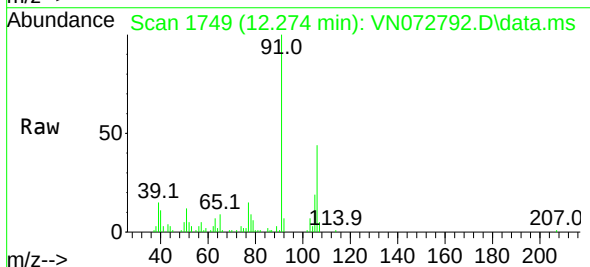
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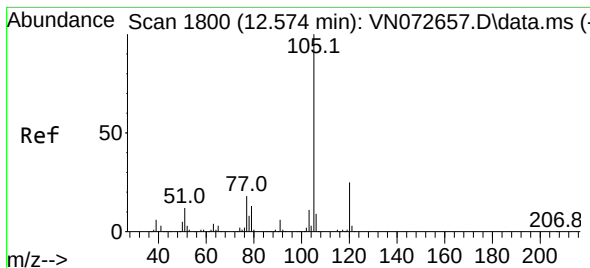
Reviewed By :John Carlone 06/13/2022
Supervised By :Mahesh Dadoda 06/13/2022



#68
o-Xylene
Concen: 4.246 ug/l
RT: 12.274 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

Tgt Ion:106 Resp: 21203
Ion Ratio Lower Upper
106 100
91 225.5 107.7 323.1





#70

Isopropylbenzene

Concen: 0.899 ug/l

RT: 12.574 min Scan# 1800

Delta R.T. 0.000 min

Lab File: VN072792.D

Acq: 11 Jun 2022 16:55

Instrument :

MSVOA_N

ClientSampleId :

220608036-02-VOA

Tgt Ion:105 Resp: 11720
 Ion Ratio Lower Upper
 105 100
 120 27.9 18.3 34.1

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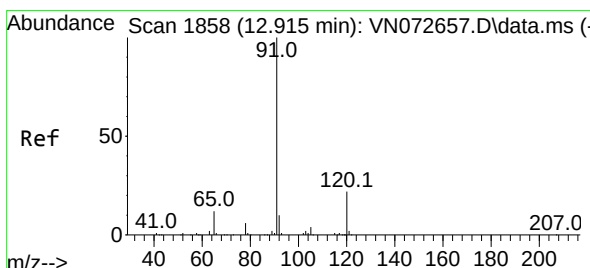
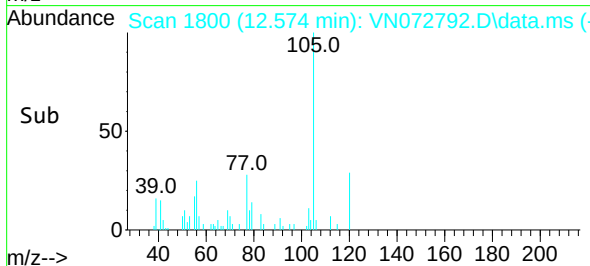
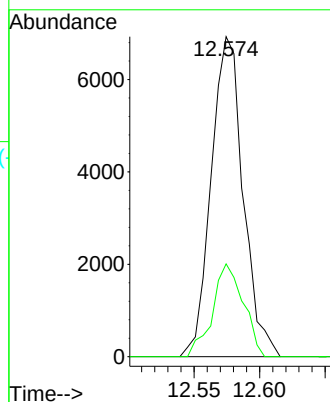
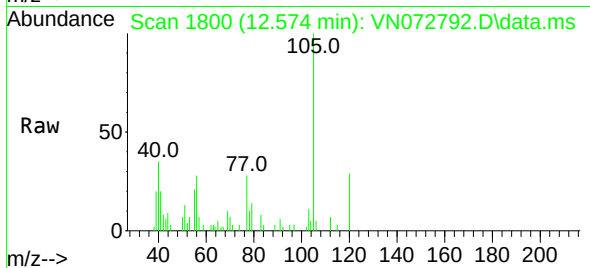
Reviewed By :John Carlone 06/13/2022

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Supervised By :Mahesh
Dadoda

06/13/2022



#74

n-propylbenzene

Concen: 0.376 ug/l

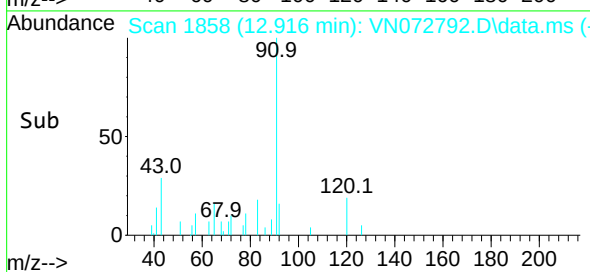
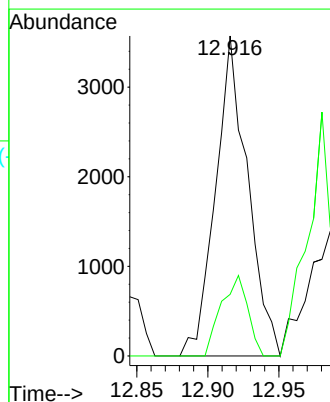
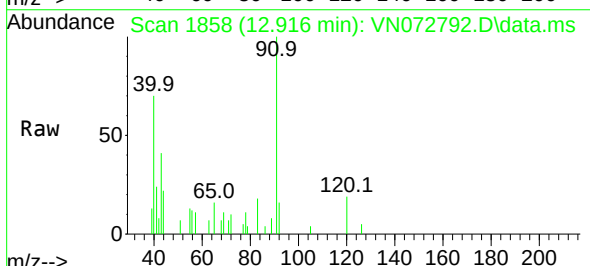
RT: 12.916 min Scan# 1858

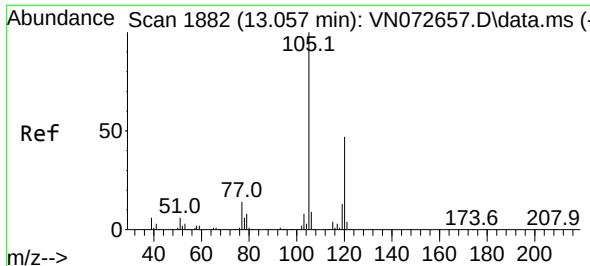
Delta R.T. 0.000 min

Lab File: VN072792.D

Acq: 11 Jun 2022 16:55

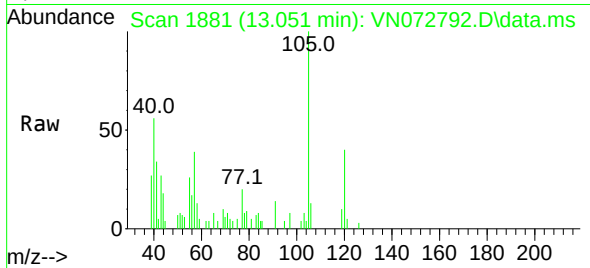
Tgt Ion: 91 Resp: 5612
 Ion Ratio Lower Upper
 91 100
 120 20.8 0.0 45.0





#76
 1,3,5-Trimethylbenzene
 Concen: 0.617 ug/l
 RT: 13.051 min Scan# 1882
 Delta R.T. -0.006 min
 Lab File: VN072792.D
 Acq: 11 Jun 2022 16:55

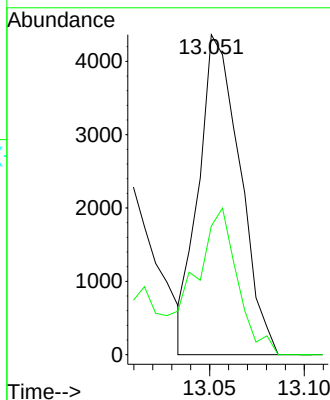
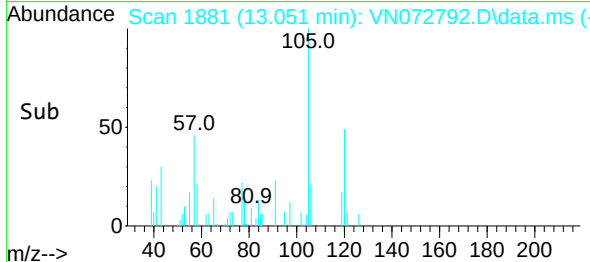
Instrument :
 MSVOA_N
 ClientSampleId :
 220608036-02-VOA



Tgt Ion:105 Resp: 661
 Ion Ratio Lower Upper
 105 100
 120 46.9 0.0 93.8

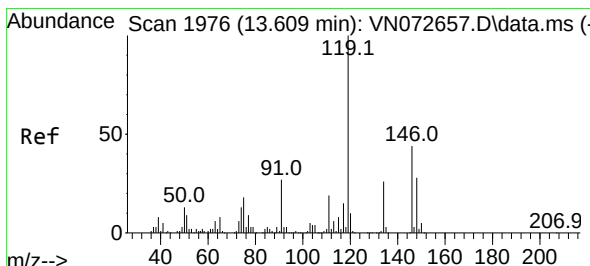
Manual Integrations
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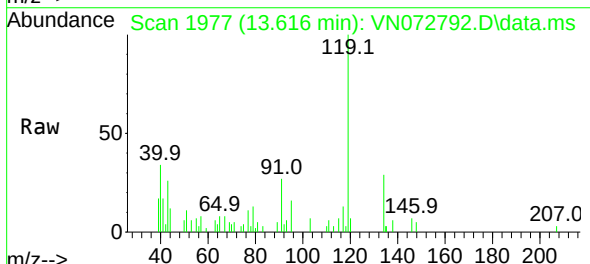


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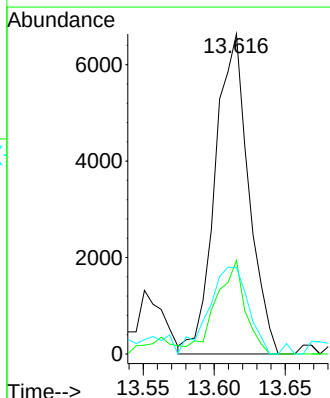
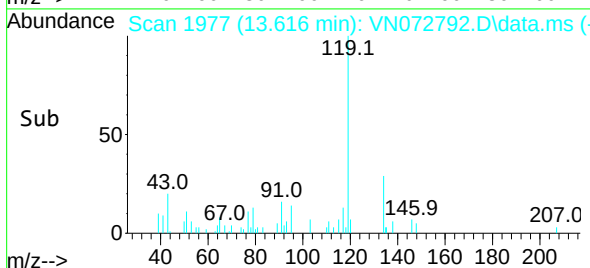
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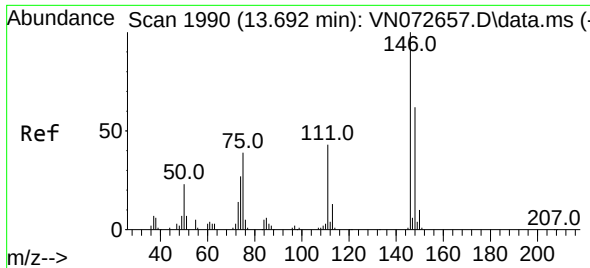


#82
 p-Isopropyltoluene
 Concen: 1.056 ug/l
 RT: 13.616 min Scan# 1977
 Delta R.T. 0.006 min
 Lab File: VN072792.D
 Acq: 11 Jun 2022 16:55



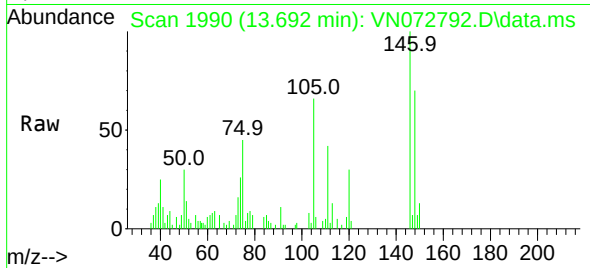
Tgt Ion:119 Resp: 10882
 Ion Ratio Lower Upper
 119 100
 134 25.2 0.0 51.8
 91 32.0 0.0 50.4





#84
1,4-Dichlorobenzene
Concen: 3.208 ug/l
RT: 13.692 min Scan# 1990
Delta R.T. 0.000 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



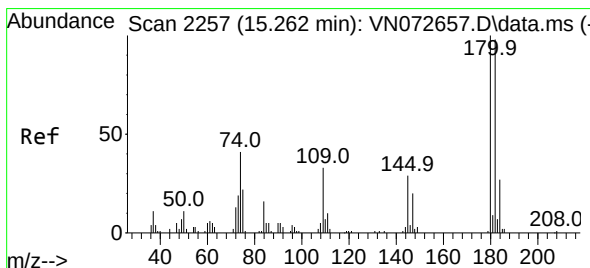
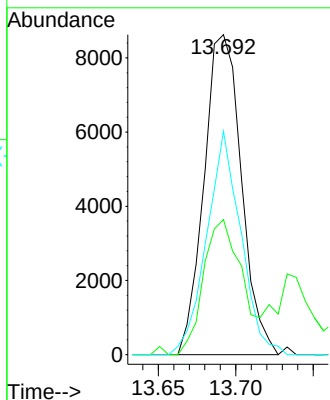
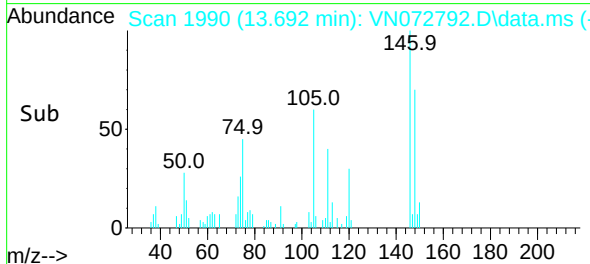
Tgt Ion:146 Resp: 1446
Ion Ratio Lower Upper
146 100
111 44.1 19.5 58.5
148 63.9 31.1 93.5

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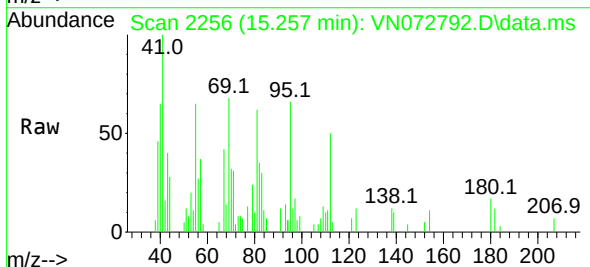
Reviewed By :John Carlone 06/13/2022
Supervised By :Mahesh Dadoda 06/13/2022

06/13/2022
Supervised By :Mahesh
Dadoda

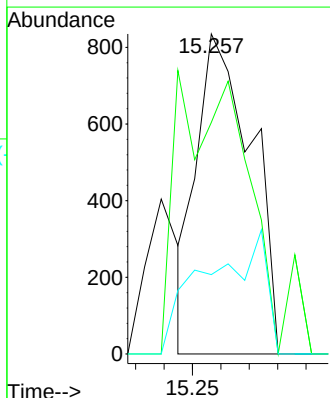
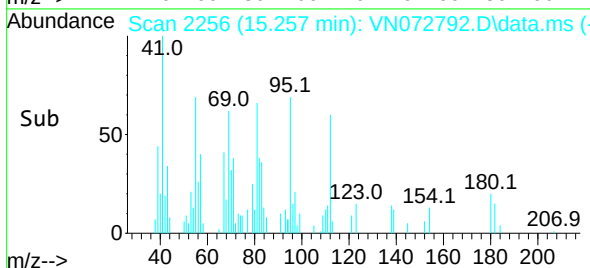
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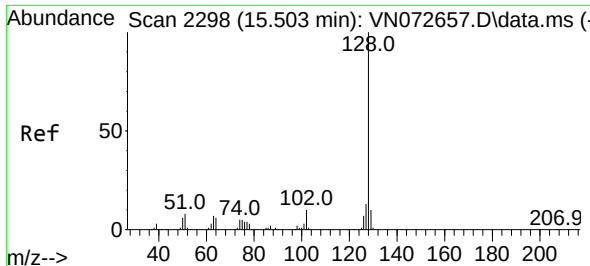


#89
1,2,4-Trichlorobenzene
Concen: 0.479 ug/l
RT: 15.257 min Scan# 2256
Delta R.T. -0.006 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55



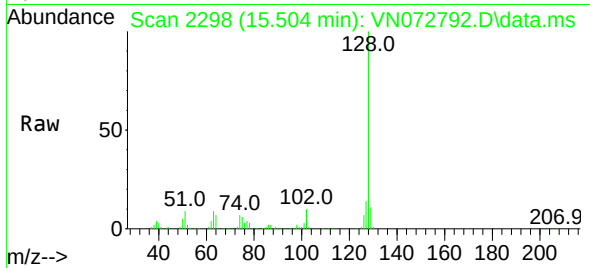
Tgt Ion:180 Resp: 1110
Ion Ratio Lower Upper
180 100
182 69.1 77.7 116.5#
145 32.4 26.6 39.8





#91
Naphthalene
Concen: 22.587 ug/l
RT: 15.504 min Scan# 2298
Delta R.T. 0.000 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



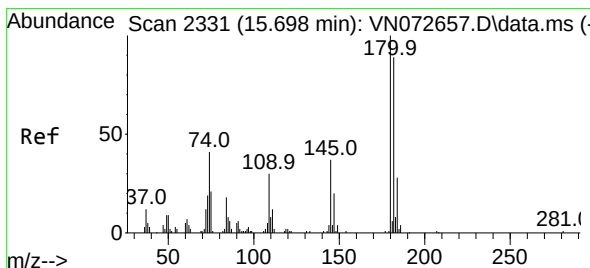
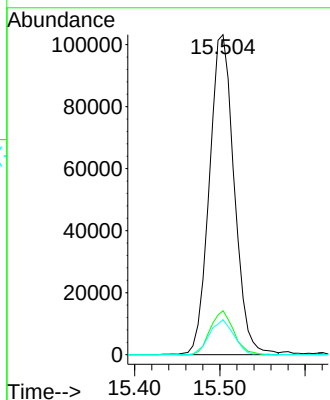
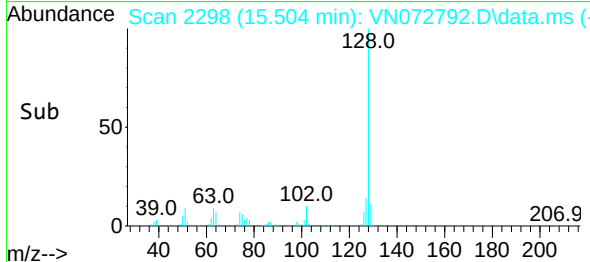
Tgt Ion:128 Resp: 208690
Ion Ratio Lower Upper
128 100
127 13.0 10.7 16.1
129 10.7 9.0 13.6

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Supervised By :Mahesh Dadoda 06/13/2022

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Supervised By :Mahesh
Dadoda

06/13/2022



#92
1,2,3-Trichlorobenzene
Concen: 0.802 ug/l m
RT: 15.698 min Scan# 2331
Delta R.T. 0.000 min
Lab File: VN072792.D
Acq: 11 Jun 2022 16:55

Tgt Ion:180 Resp: 1889
Ion Ratio Lower Upper
180 100
182 93.5 0.0 190.0
145 22.0 0.0 67.8

