

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061122\
 Data File : VN072789.D
 Acq On : 11 Jun 2022 14:53
 Operator : JC\MD
 Sample : N3283-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 220608036-02-VOA

Manual Integrations
 APPROVED

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

Quant Time: Jun 13 01:19:56 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

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

Internal Standards						
1) Bromochloromethane	7.657	128	33494	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	203953	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.745	117	173010	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	127250	33.312	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 111.033%#			
60) 4-Bromofluorobenzene	12.727	95	97216	27.320	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 91.067%			
63) Toluene-d8	10.439	98	306116	31.940	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 106.467%			
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.440	62	784	0.319	ug/l	95
8) Diethyl Ether	3.822	74	3811m	2.210	ug/l	
15) Acetone	4.281	58	116285	230.771	ug/l	# 43
22) cis-1,2-Dichloroethene	7.322	96	794	0.265	ug/l	# 27
23) tert-Butyl Alcohol	5.357	59	1885185	2176.706	ug/l	# 100
24) Methyl tert-Butyl Ether	5.610	73	28859m	2.932	ug/l	
30) 2-Butanone	7.328	43	401143	142.571	ug/l	# 87
34) Benzene	8.457	78	40267	3.501	ug/l	# 66
45) 1,4-Dioxane	9.563	88	5690	77.432	ug/l	# 77
58) 4-Methyl-2-Pentanone	10.328	43	16299	3.141	ug/l	# 83
62) Toluene	10.504	91	35526	3.028	ug/l	98
64) Chlorobenzene	11.769	112	13328	1.866	ug/l	99
66) Ethyl Benzene	11.839	91	100824	7.486	ug/l	98
67) m/p-Xylenes	11.945	106	32195	6.554	ug/l	90
68) o-Xylene	12.280	106	20345	4.060	ug/l	88
70) Isopropylbenzene	12.574	105	9893m	0.755	ug/l	
74) n-propylbenzene	12.916	91	4971	0.332	ug/l	92
76) 1,3,5-Trimethylbenzene	13.057	105	5909	0.550	ug/l	100
82) p-Isopropyltoluene	13.616	119	9639	0.932	ug/l	94
84) 1,4-Dichlorobenzene	13.692	146	13709	3.030	ug/l	96
91) Naphthalene	15.504	128	195170	21.045	ug/l	99

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

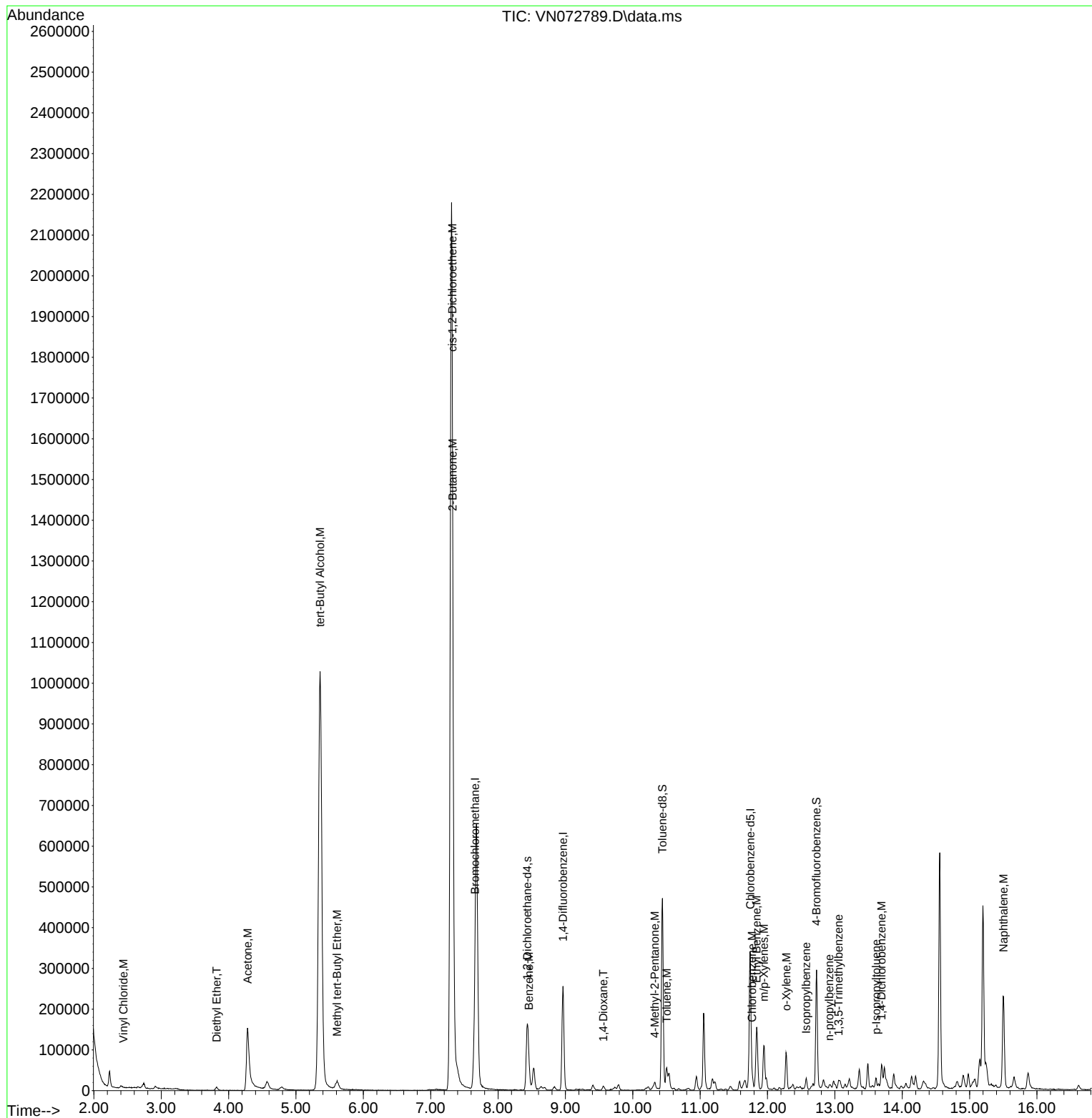
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061122\
Data File : VN072789.D
Acq On : 11 Jun 2022 14:53
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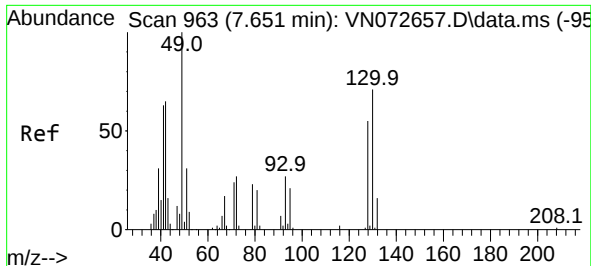
Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA

Quant Time: Jun 13 01:19:56 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

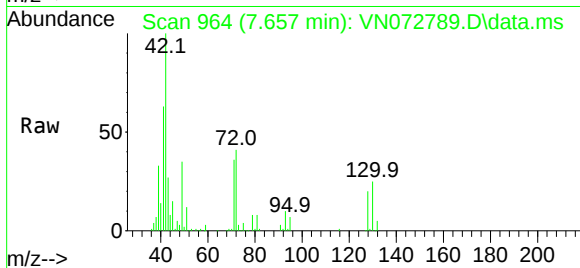
Reviewed By : John Carlone 06/13/2022
Supervised By : Mahesh Dadoda 06/13/2022





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.657 min Scan# 90
Delta R.T. 0.006 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

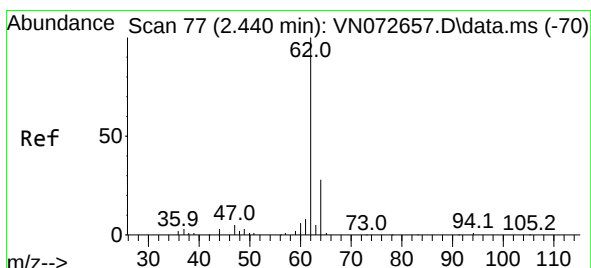
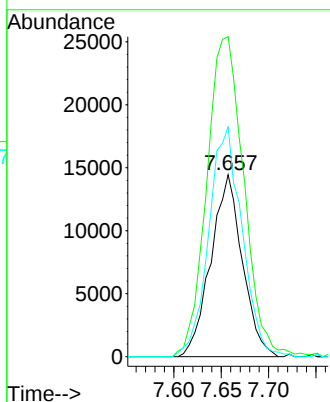
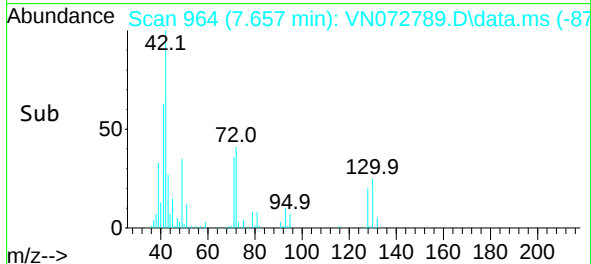
Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



Tgt Ion: 128 Resp: 33494
Ion Ratio Lower Upper
128 100
49 206.0 0.0 392.3
130 133.2 0.0 320.2

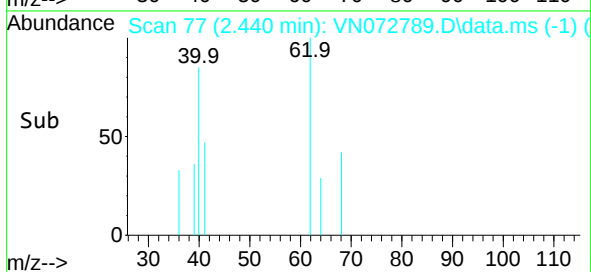
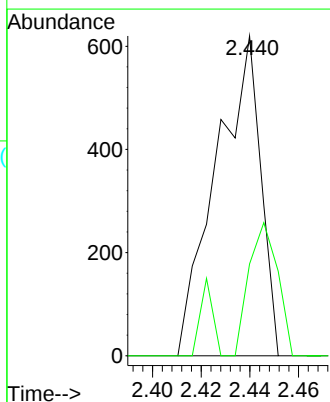
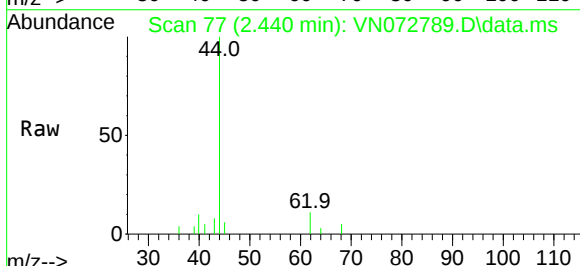
Manual Integrations
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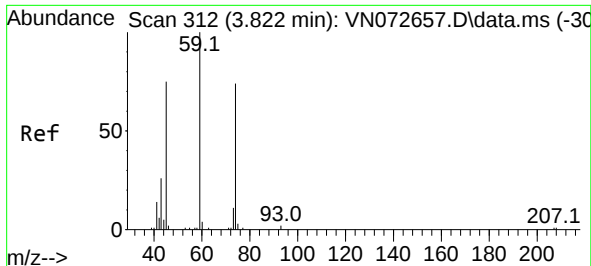
Reviewed By : John Carlone 06/13/2022
Supervised By : Mahesh Dadoda 06/13/2022



#4
Vinyl Chloride
Concen: 0.319 ug/l
RT: 2.440 min Scan# 77
Delta R.T. 0.000 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

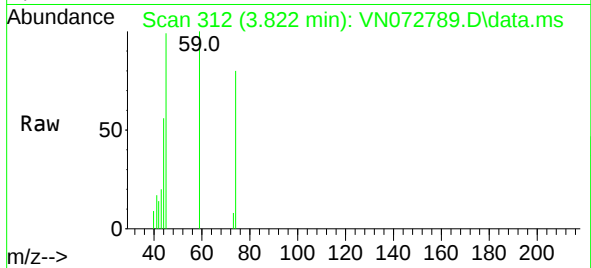
Tgt Ion: 62 Resp: 784
Ion Ratio Lower Upper
62 100
64 28.7 25.1 37.7





#8
Diethyl Ether
Concen: 2.210 ug/l m
RT: 3.822 min Scan# 312
Delta R.T. 0.000 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

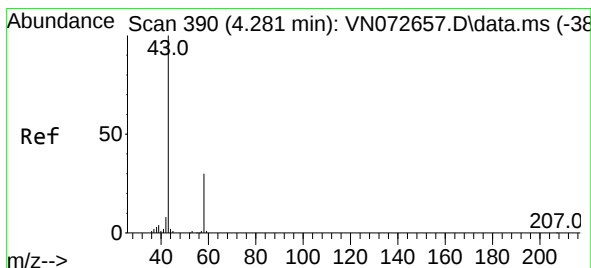
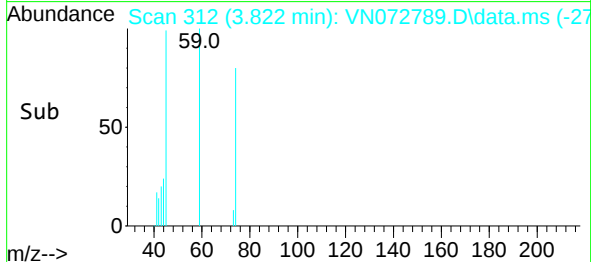
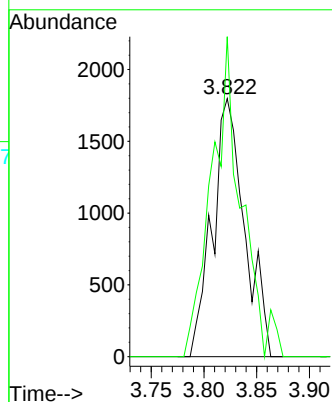
Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



Tgt Ion: 74 Resp: 381
Ion Ratio Lower Upper
74 100
45 62.0 17.6 158.8

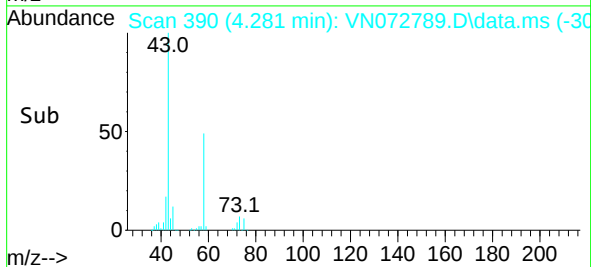
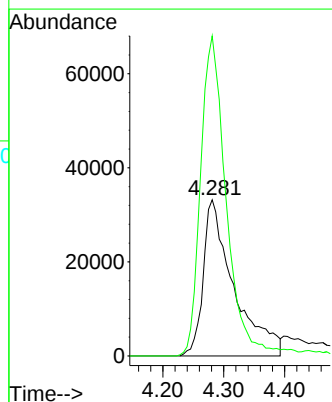
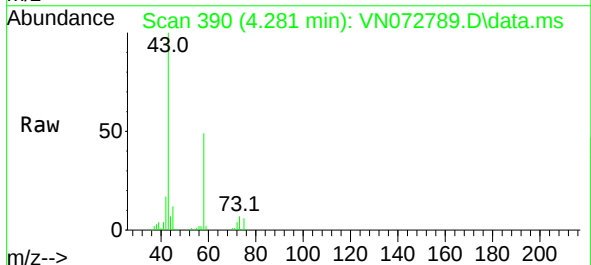
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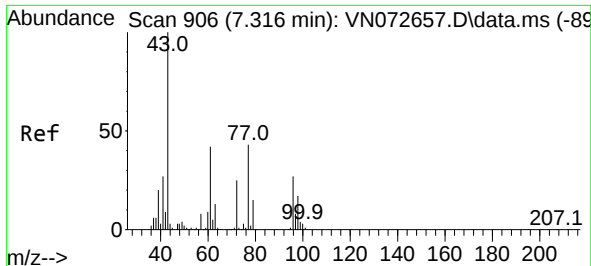
Reviewed By :John Carlone 06/13/2022
Supervised By :Mahesh Dadoda 06/13/2022



#15
Acetone
Concen: 230.771 ug/l
RT: 4.281 min Scan# 390
Delta R.T. 0.000 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

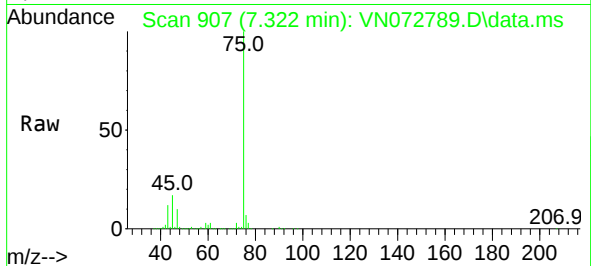
Tgt Ion: 58 Resp: 116285
Ion Ratio Lower Upper
58 100
43 204.1 256.6 384.8#





#22
cis-1,2-Dichloroethene
Concen: 0.265 ug/l
RT: 7.322 min Scan# 906
Delta R.T. 0.006 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

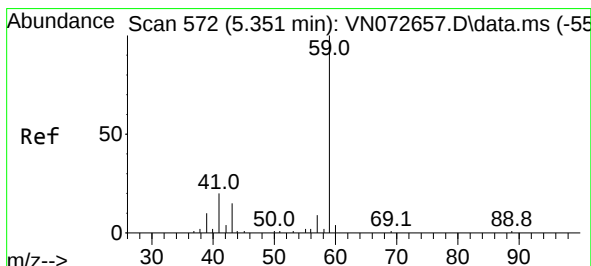
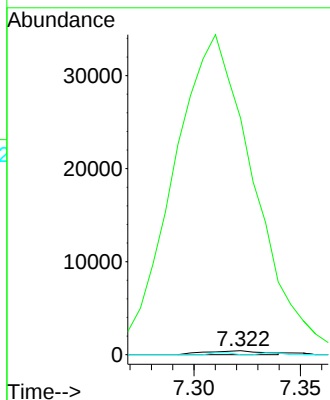
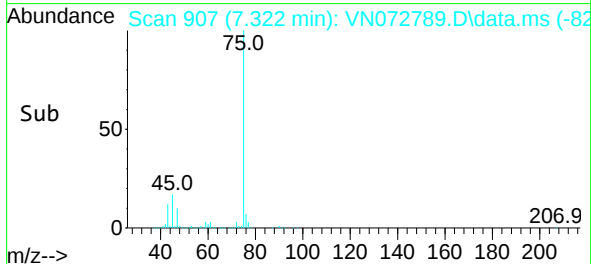
Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



Tgt Ion: 96 Resp: 794
Ion Ratio Lower Upper
96 100
61 47.7 115.7 173.5
98 16.6 51.6 77.4

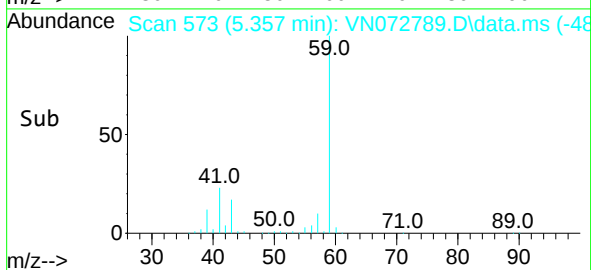
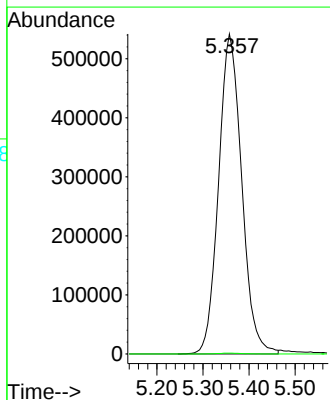
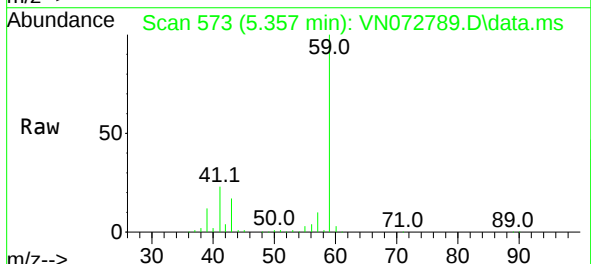
Manual Integrations
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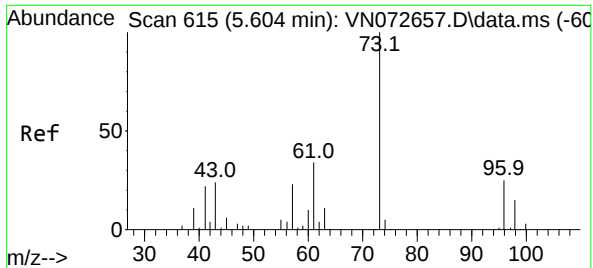
Reviewed By :John Carlone 06/13/2022
Supervised By :Mahesh Dadoda 06/13/2022



#23
tert-Butyl Alcohol
Concen: 2176.706 ug/l
RT: 5.357 min Scan# 573
Delta R.T. 0.006 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

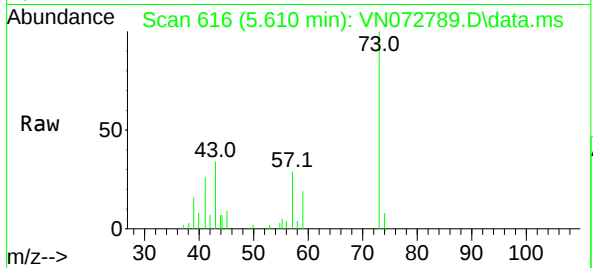
Tgt Ion: 59 Resp: 1885185
Ion Ratio Lower Upper
59 100
52 0.2 0.0 0.0#





#24
Methyl tert-Butyl Ether
Concen: 2.932 ug/l m
RT: 5.610 min Scan# 615
Delta R.T. 0.006 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

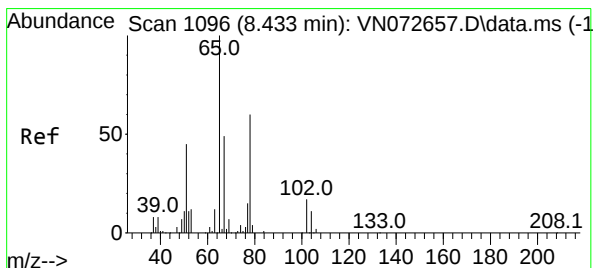
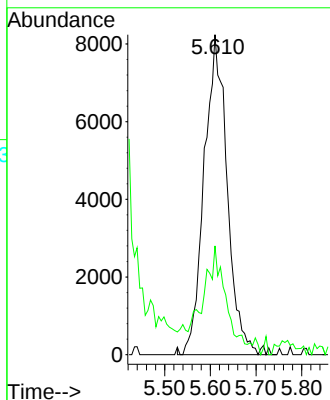
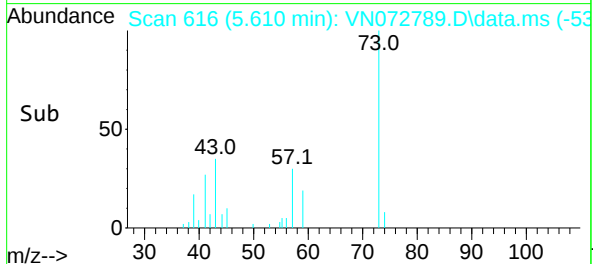
Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



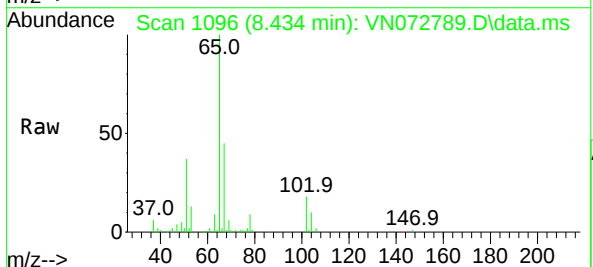
Tgt Ion: 73 Resp: 2885
Ion Ratio Lower Upper
73 100
43 16.3 18.1 27.1

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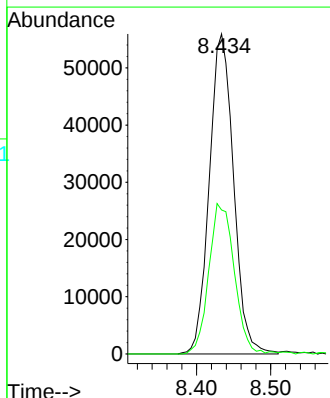
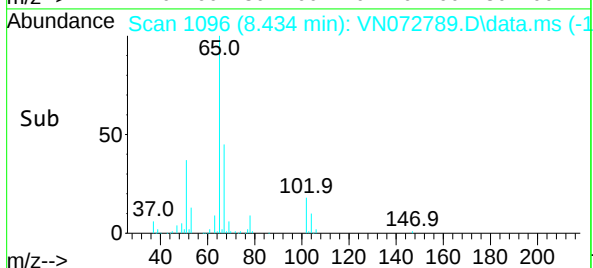
Reviewed By :John Carlone 06/13/2022
Supervised By :Mahesh Dadoda 06/13/2022

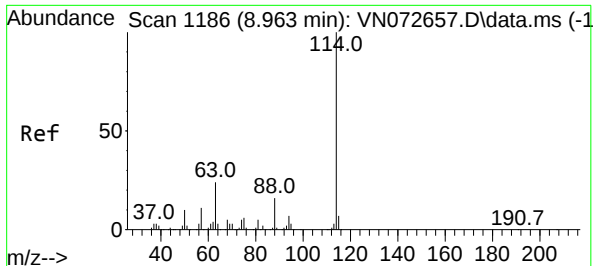


#27
1,2-Dichloroethane-d4
Concen: 33.312 ug/l
RT: 8.434 min Scan# 1096
Delta R.T. 0.000 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53



Tgt Ion: 65 Resp: 127250
Ion Ratio Lower Upper
65 100
67 49.1 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. 0.000 min

Lab File: VN072789.D

Acq: 11 Jun 2022 14:53

Instrument :

MSVOA_N

ClientSampleId :

220608036-02-VOA

Tgt Ion:114 Resp: 20395

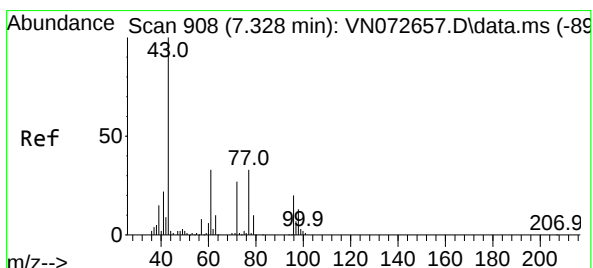
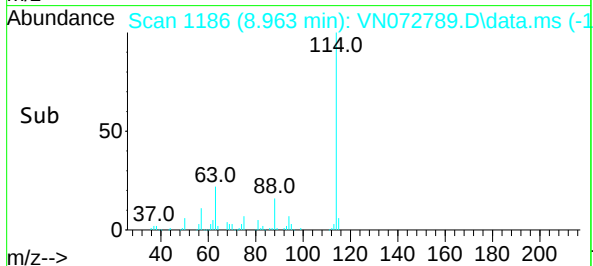
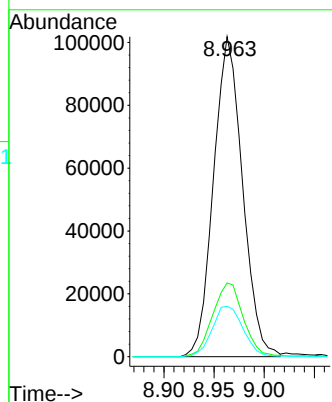
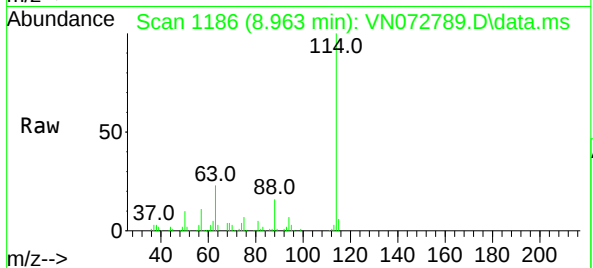
Ion	Ratio	Lower	Upper
114	100		
63	24.5	15.8	23.6
88	16.9	11.6	17.4

Manual Integrations

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Supervised By :Mahesh Dadoda 06/13/2022



#30

2-Butanone

Concen: 142.571 ug/l

RT: 7.328 min Scan# 908

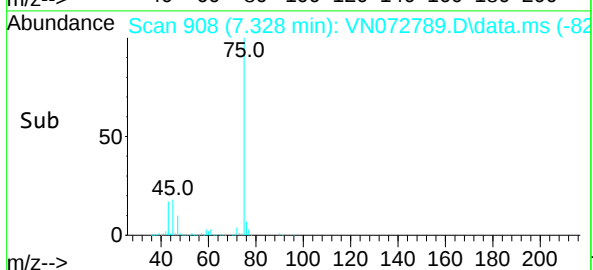
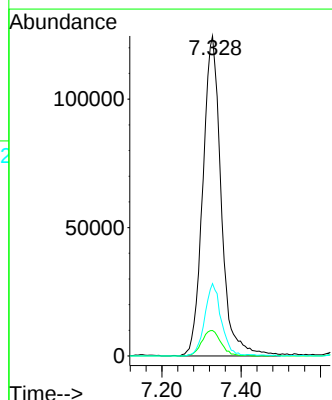
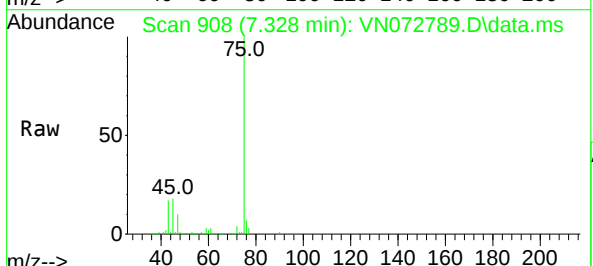
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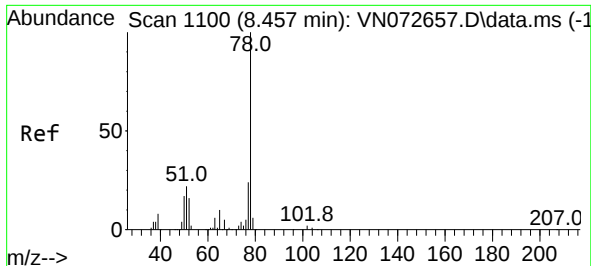
Lab File: VN072789.D

Acq: 11 Jun 2022 14:53

Tgt Ion: 43 Resp: 401143

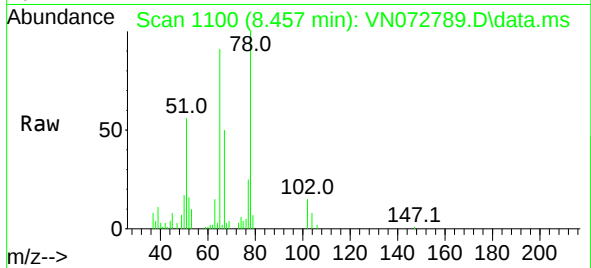
Ion	Ratio	Lower	Upper
43	100		
57	8.3	6.7	10.1
72	20.2	23.2	34.8





#34
Benzene
Concen: 3.501 ug/l
RT: 8.457 min Scan# 1100
Delta R.T. 0.000 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

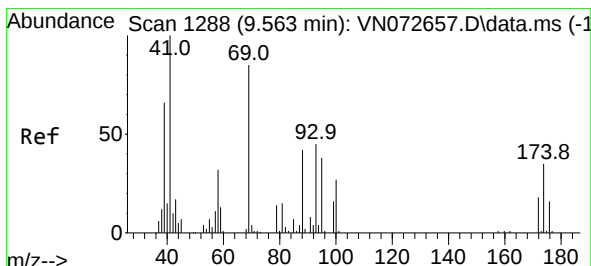
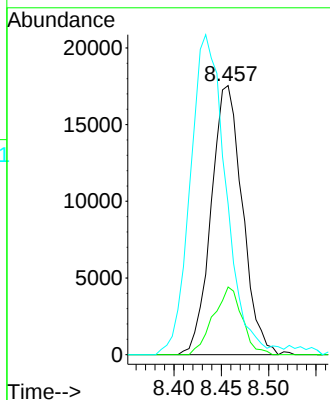
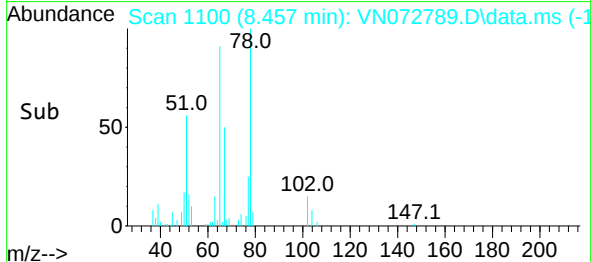
Instrument :
MSVOA_N
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220608036-02-VOA



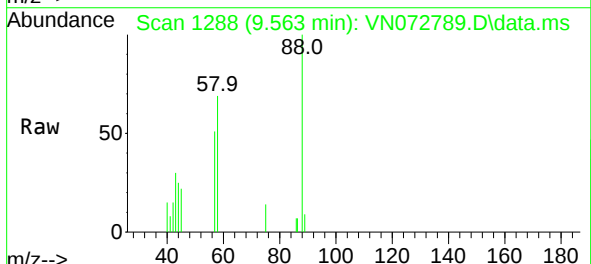
Tgt Ion: 78 Resp: 4026
Ion Ratio Lower Upper
78 100
77 25.1 19.1 28.7
51 53.0 16.0 24.0

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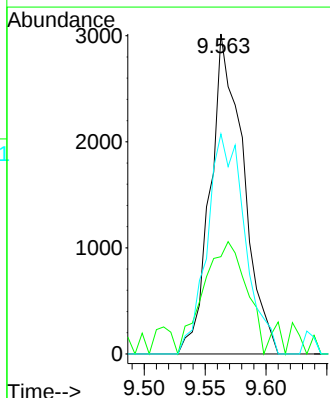
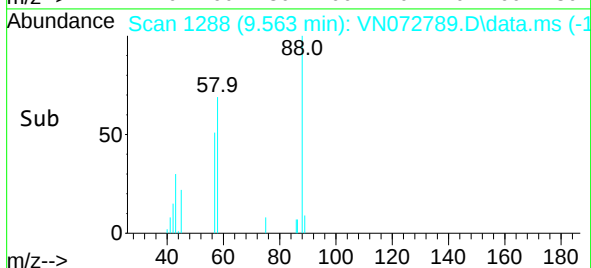
Reviewed By :John Carlone 06/13/2022
Supervised By :Mahesh Dadoda 06/13/2022

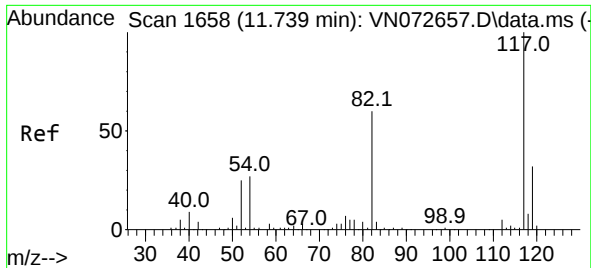


#45
1,4-Dioxane
Concen: 77.432 ug/l
RT: 9.563 min Scan# 1288
Delta R.T. 0.000 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53



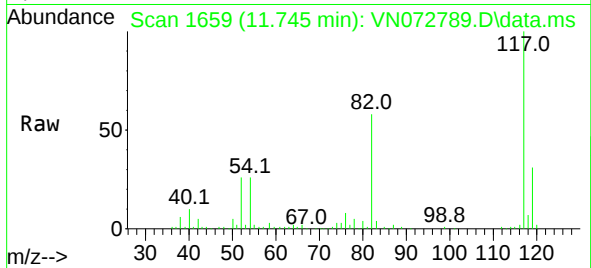
Tgt Ion: 88 Resp: 5690
Ion Ratio Lower Upper
88 100
43 45.3 25.0 37.6#
58 78.5 49.4 74.2#





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.745 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

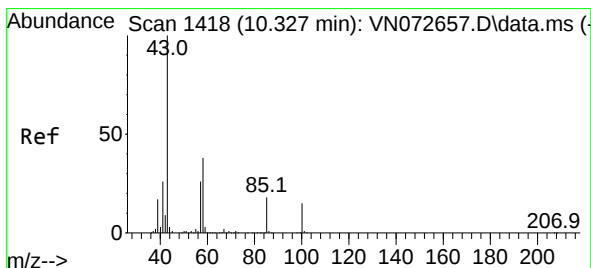
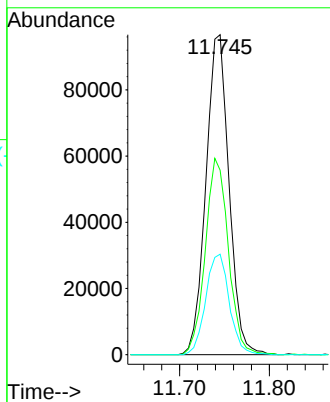
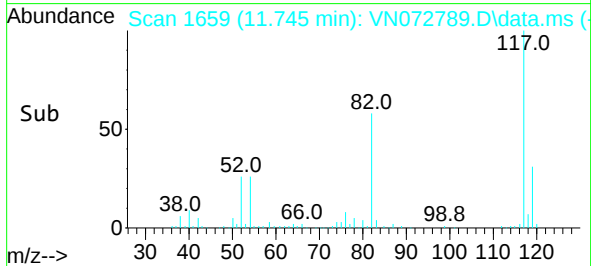
Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



Tgt Ion: 117 Resp: 173010
Ion Ratio Lower Upper
117 100
82 61.4 43.6 65.4
119 32.1 25.8 38.6

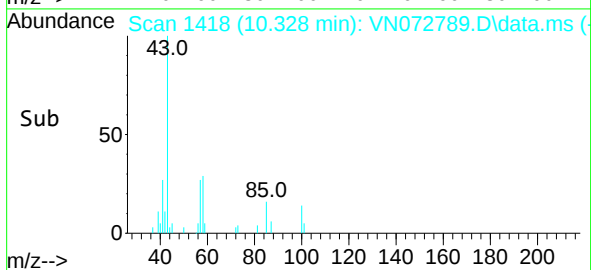
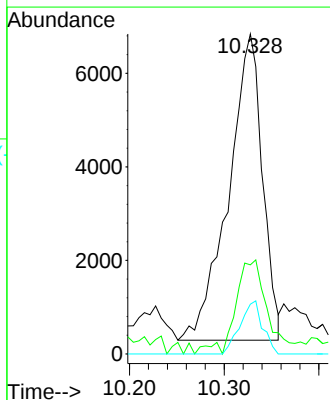
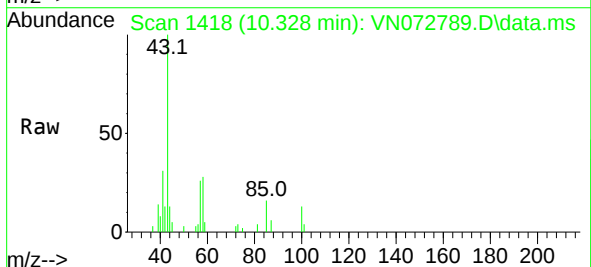
Manual Integrations
APPROVED

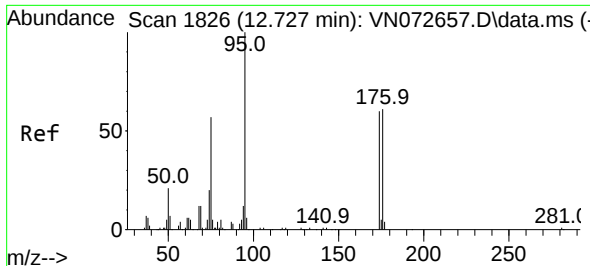
Reviewed By :John Carlone 06/13/2022
Supervised By :Mahesh Dadoda 06/13/2022



#58
4-Methyl-2-Pentanone
Concen: 3.141 ug/l
RT: 10.328 min Scan# 1418
Delta R.T. 0.000 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

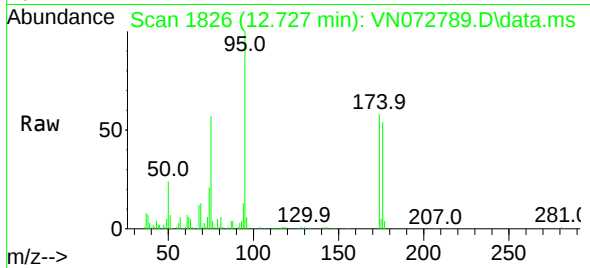
Tgt Ion: 43 Resp: 16299
Ion Ratio Lower Upper
43 100
58 27.3 30.0 45.0#
85 11.5 15.0 22.6#





#60
4-Bromofluorobenzene
Concen: 27.320 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

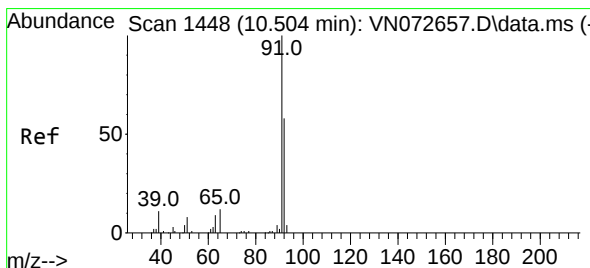
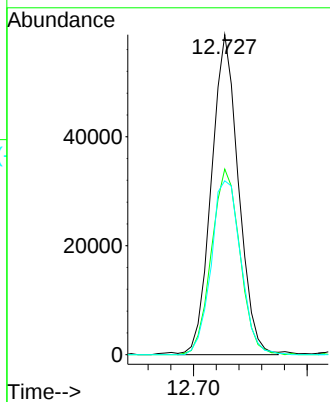
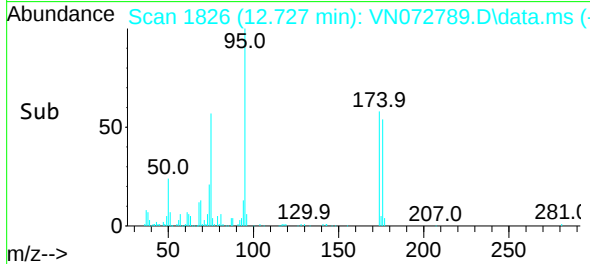
Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



Tgt Ion: 95 Resp: 97210
Ion Ratio Lower Upper
95 100
174 61.0 62.9 94.3
176 59.5 61.0 91.4

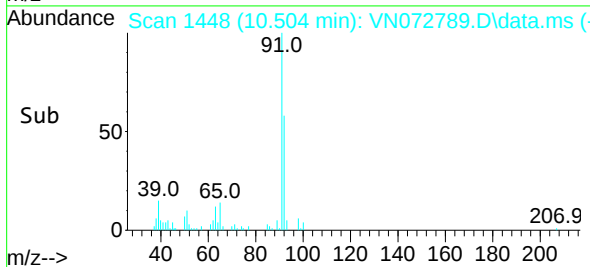
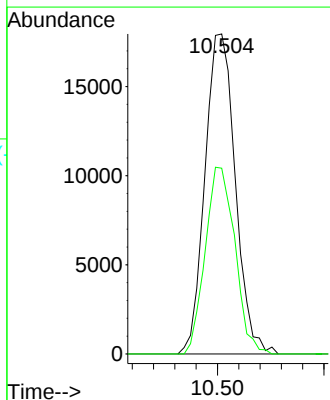
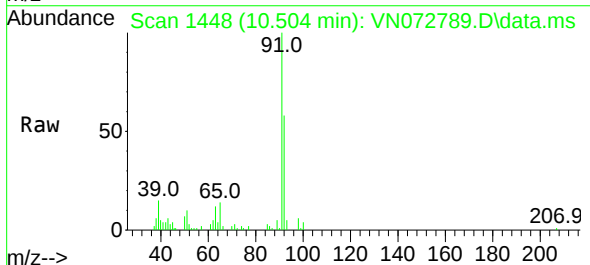
Manual Integrations
APPROVED

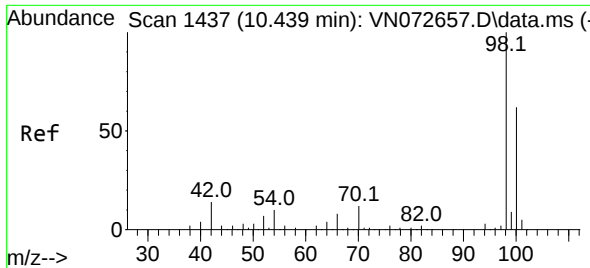
Reviewed By :John Carlone 06/13/2022
Supervised By :Mahesh Dadoda 06/13/2022



#62
Toluene
Concen: 3.028 ug/l
RT: 10.504 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

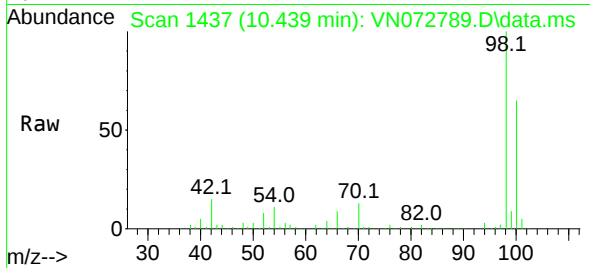
Tgt Ion: 91 Resp: 35526
Ion Ratio Lower Upper
91 100
92 57.1 44.6 67.0





#63
Toluene-d8
Concen: 31.940 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

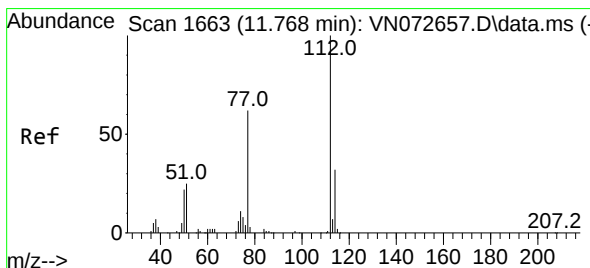
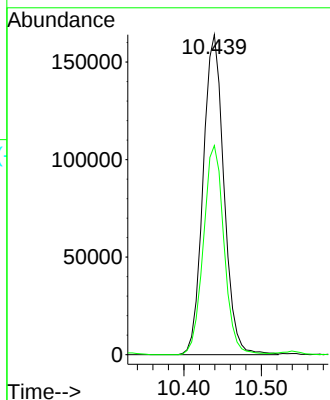
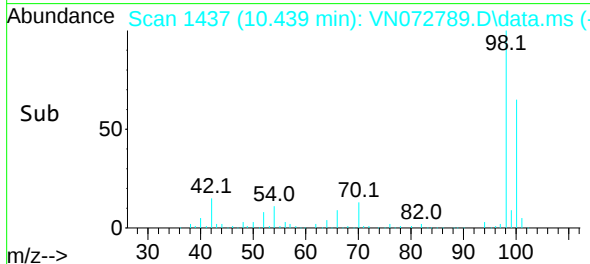
Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



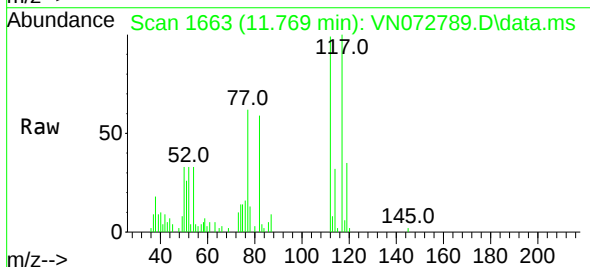
Tgt Ion: 98 Resp: 306110
Ion Ratio Lower Upper
98 100
100 64.9 50.6 76.0

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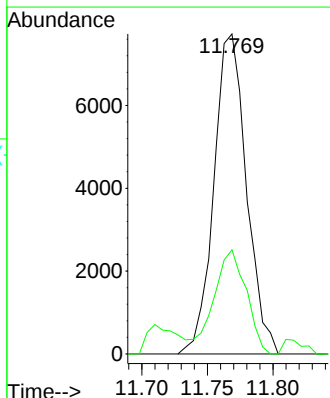
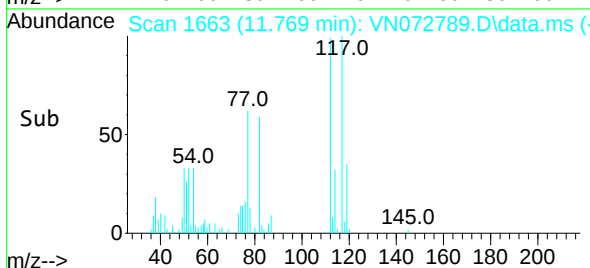
Reviewed By :John Carlone 06/13/2022
Supervised By :Mahesh Dadoda 06/13/2022

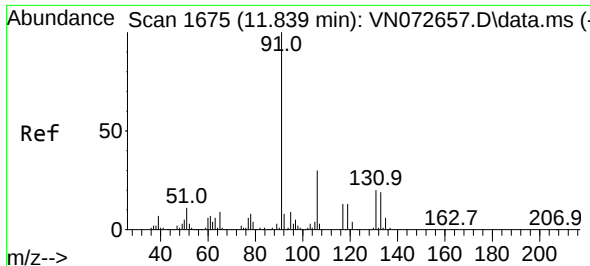


#64
Chlorobenzene
Concen: 1.866 ug/l
RT: 11.769 min Scan# 1663
Delta R.T. 0.000 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53



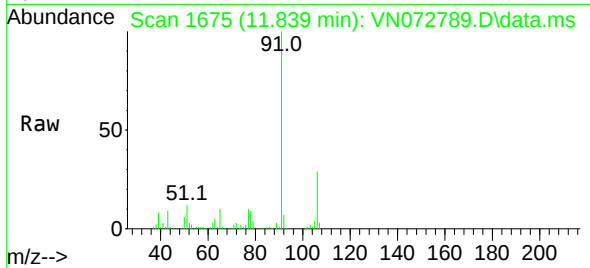
Tgt Ion:112 Resp: 13328
Ion Ratio Lower Upper
112 100
114 32.5 25.8 38.6





#66
Ethyl Benzene
Concen: 7.486 ug/l
RT: 11.839 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

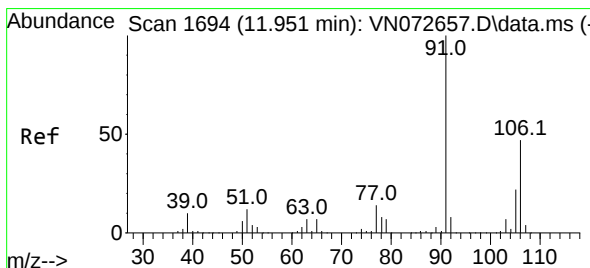
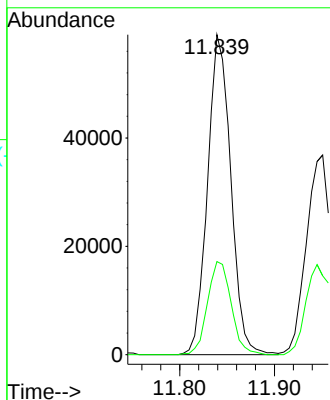
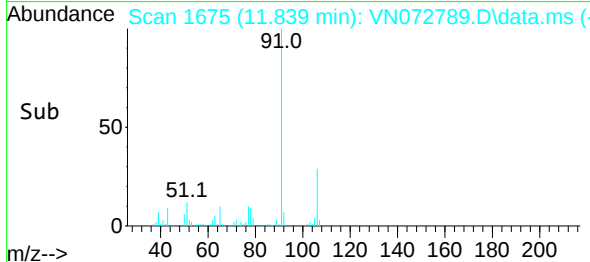
Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



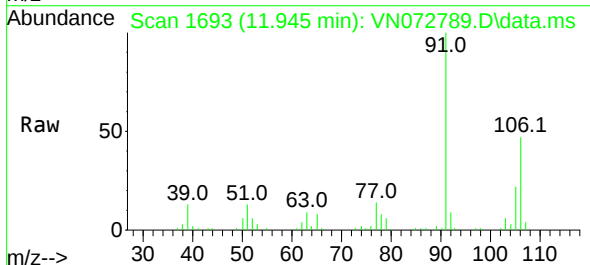
Tgt Ion: 91 Resp: 100824
Ion Ratio Lower Upper
91 100
106 29.1 24.0 36.0

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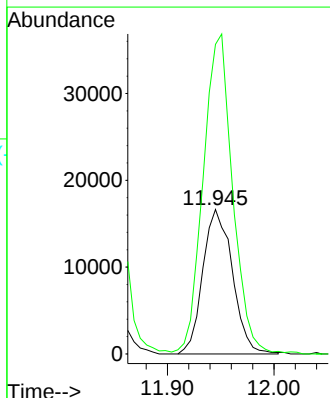
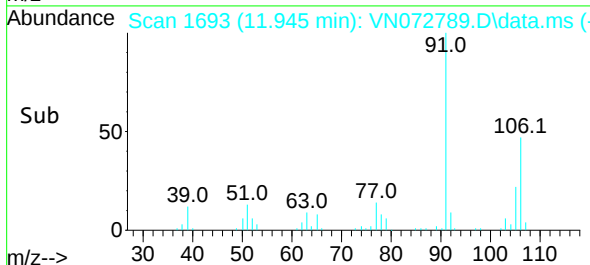
Reviewed By :John Carlone 06/13/2022
Supervised By :Mahesh Dadoda 06/13/2022

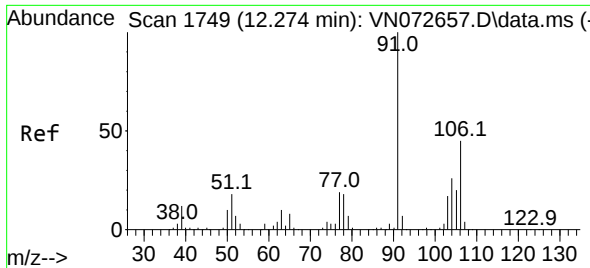


#67
m/p-Xylenes
Concen: 6.554 ug/l
RT: 11.945 min Scan# 1693
Delta R.T. -0.006 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53



Tgt Ion:106 Resp: 32195
Ion Ratio Lower Upper
106 100
91 219.4 162.9 244.3





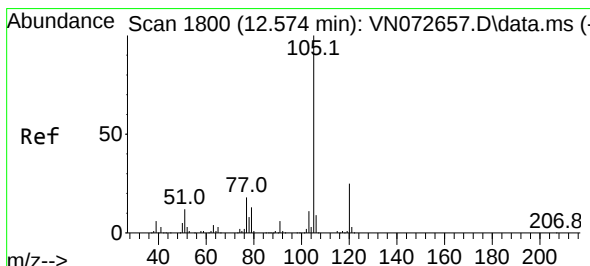
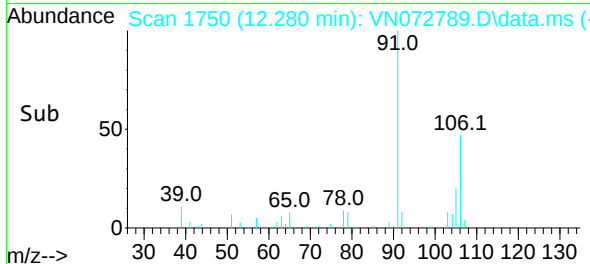
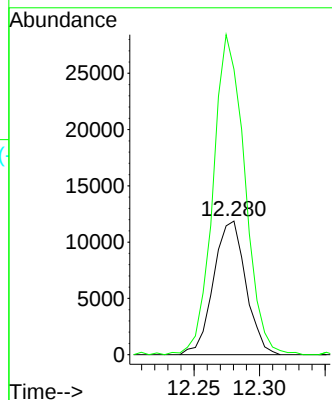
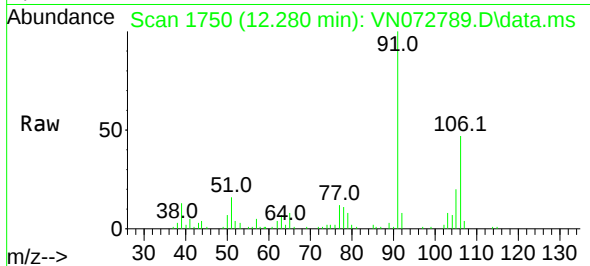
#68
o-Xylene
Concen: 4.060 ug/l
RT: 12.280 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA

Tgt Ion:106 Resp: 2034
Ion Ratio Lower Upper
106 100
91 234.8 107.7 323.1

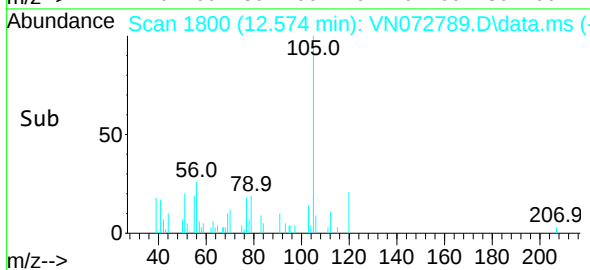
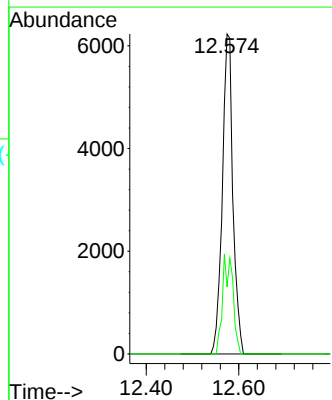
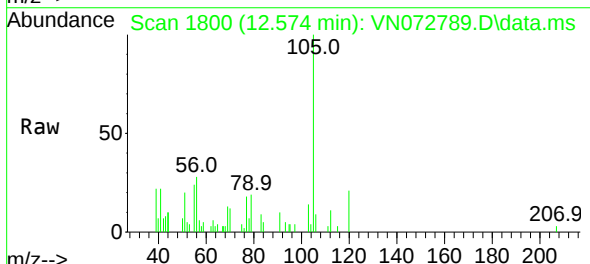
Manual Integrations
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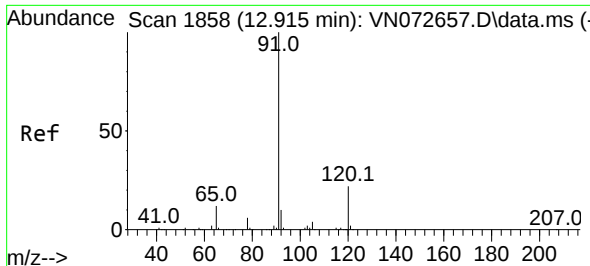
Reviewed By :John Carlone 06/13/2022
Supervised By :Mahesh Dadoda 06/13/2022



#70
Isopropylbenzene
Concen: 0.755 ug/l m
RT: 12.574 min Scan# 1800
Delta R.T. 0.000 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

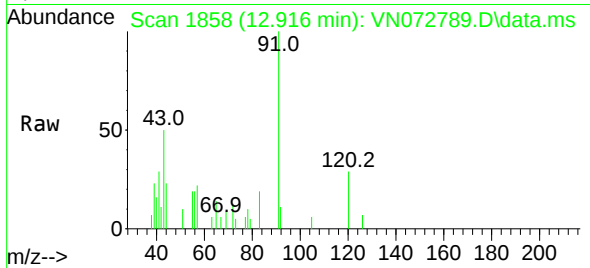
Tgt Ion:105 Resp: 9893
Ion Ratio Lower Upper
105 100
120 36.2 18.3 34.1#





#74
n-propylbenzene
Concen: 0.332 ug/l
RT: 12.916 min Scan# 1858
Delta R.T. 0.000 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

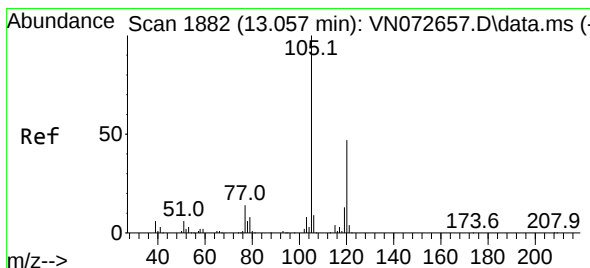
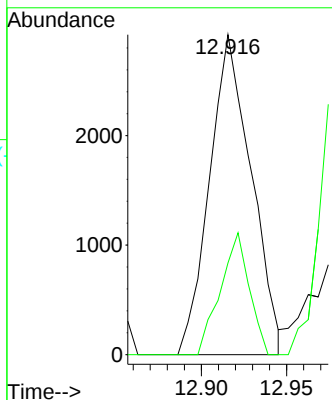
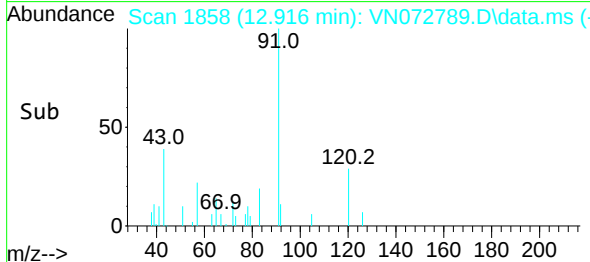
Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



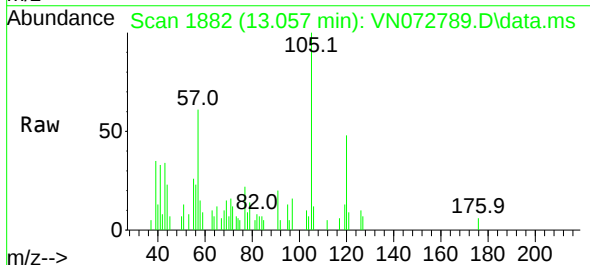
Tgt Ion: 91 Resp: 497
Ion Ratio Lower Upper
91 100
120 26.3 0.0 45.0

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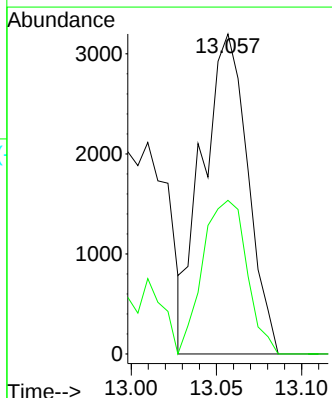
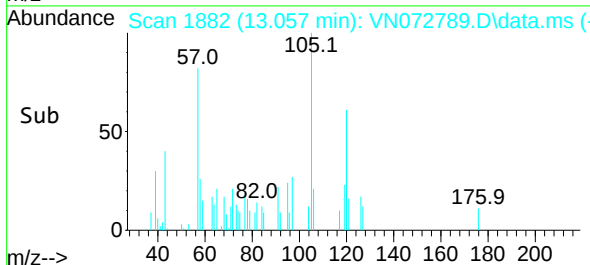
Reviewed By :John Carlone 06/13/2022
Supervised By :Mahesh Dadoda 06/13/2022

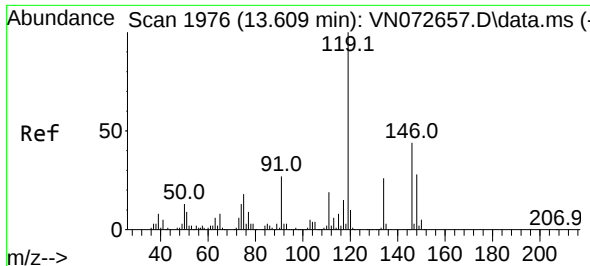


#76
1,3,5-Trimethylbenzene
Concen: 0.550 ug/l
RT: 13.057 min Scan# 1882
Delta R.T. 0.000 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53



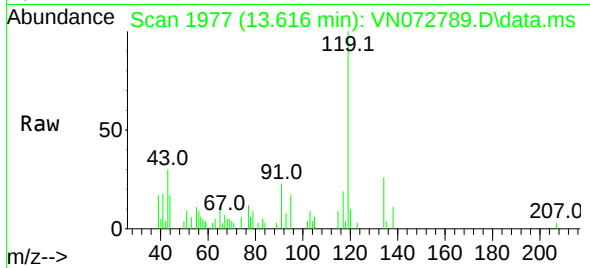
Tgt Ion:105 Resp: 5909
Ion Ratio Lower Upper
105 100
120 46.8 0.0 93.8





#82
p-Isopropyltoluene
Concen: 0.932 ug/l
RT: 13.616 min Scan# 1977
Delta R.T. 0.006 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

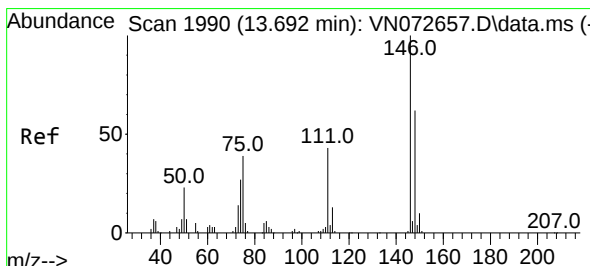
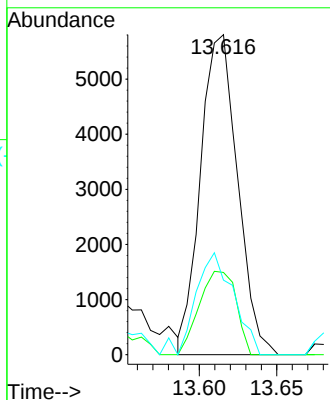
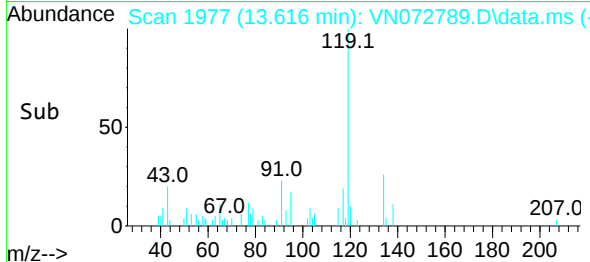
Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



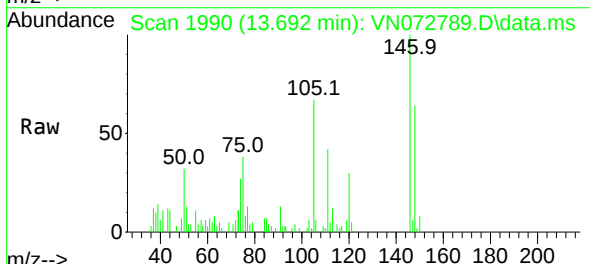
Tgt Ion:119 Resp: 9639
Ion Ratio Lower Upper
119 100
134 25.9 0.0 51.8
91 31.7 0.0 50.4

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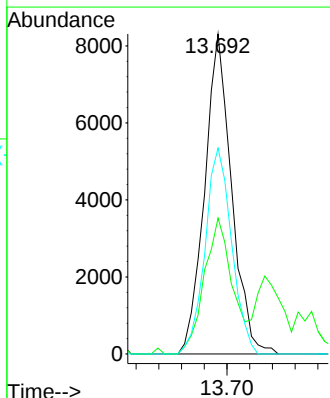
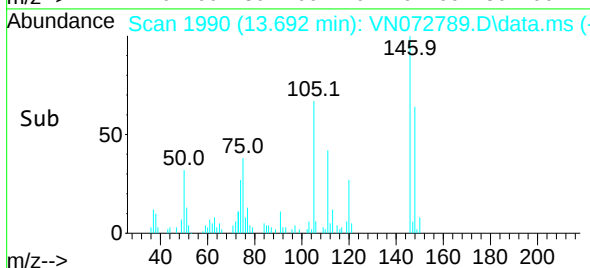
Reviewed By :John Carlone 06/13/2022
Supervised By :Mahesh Dadoda 06/13/2022

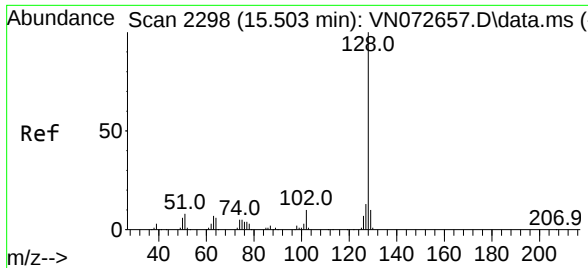


#84
1,4-Dichlorobenzene
Concen: 3.030 ug/l
RT: 13.692 min Scan# 1990
Delta R.T. 0.000 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53



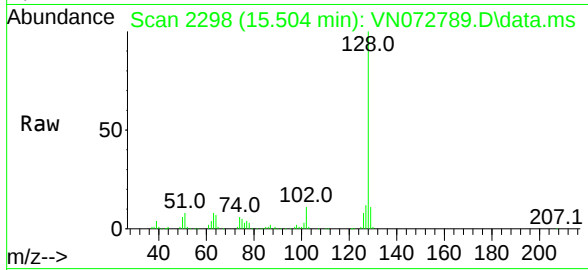
Tgt Ion:146 Resp: 13709
Ion Ratio Lower Upper
146 100
111 43.7 19.5 58.5
148 63.4 31.1 93.5





#91
Naphthalene
Concen: 21.045 ug/l
RT: 15.504 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN072789.D
Acq: 11 Jun 2022 14:53

Instrument :
MSVOA_N
ClientSampleId :
220608036-02-VOA



Tgt Ion:128 Resp: 195170
Ion Ratio Lower Upper
128 100
127 13.5 10.7 16.1
129 10.8 9.0 13.6

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

