

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031023\
 Data File : VN076945.D
 Acq On : 10 Mar 2023 23:39
 Operator : JC\MD
 Sample : 01841-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MORRIS-030823

Quant Time: Mar 13 01:27:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031023W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 10 13:47:39 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 03/13/2023
 Supervised By : Mahesh Dadoda 03/13/2023

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

Internal Standards						
1) Pentafluorobenzene	8.236	168	398892	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	602317	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	528789	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	296114	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.613	65	283992	47.709	ug/l	0.03
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.420%		
35) Dibromofluoromethane	8.178	113	176229	43.901	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	87.800%		
50) Toluene-d8	10.577	98	753766	50.949	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.900%		
62) 4-Bromofluorobenzene	12.854	95	283814	52.448	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	104.900%		
Target Compounds					Qvalue	
8) Diethyl Ether	3.966	74	2848681	945.526	ug/l	84
11) Tert butyl alcohol	5.572	59	3220024	3888.638	ug/l #	75
16) Acetone	4.437	43	6566859	3183.665	ug/l	91
17) Carbon Disulfide	4.713	76	12265	1.004	ug/l	96
18) Methyl Acetate	5.031	43	1921756	252.624	ug/l	92
25) 2-Butanone	7.495	43	1402415	478.049	ug/l	89
29) Tetrahydrofuran	7.854	42	21400	11.769	ug/l	96
31) Cyclohexane	8.266	56	2165463	253.555	ug/l	94
39) Methylcyclohexane	9.607	83	2585392	343.053	ug/l #	88
40) Benzene	8.595	78	47133721m	2575.565	ug/l	
51) 4-Methyl-2-Pentanone	10.472	43	91844	17.444	ug/l	100
52) Toluene	10.625	92	40184085m	3567.773	ug/l	
67) Ethyl Benzene	11.960	91	19245668	884.875	ug/l	96
68) m/p-Xylenes	12.066	106	26988508m	3301.469	ug/l	
69) o-Xylene	12.401	106	17725007m	2233.442	ug/l	
73) Isopropylbenzene	12.701	105	3532002	133.860	ug/l	95
78) n-propylbenzene	13.042	91	3721046	126.642	ug/l	96
80) 1,3,5-Trimethylbenzene	13.177	105	8694730	386.840	ug/l	92
83) tert-Butylbenzene	13.442	119	95063	4.979	ug/l	85
84) 1,2,4-Trimethylbenzene	13.483	105	15658870	696.351	ug/l	96
85) sec-Butylbenzene	13.618	105	362753m	13.859	ug/l	
86) p-Isopropyltoluene	13.736	119	349463	16.534	ug/l	93
89) n-Butylbenzene	14.060	91	116009m	6.577	ug/l	
95) Naphthalene	15.642	128	530161	29.663	ug/l	100

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

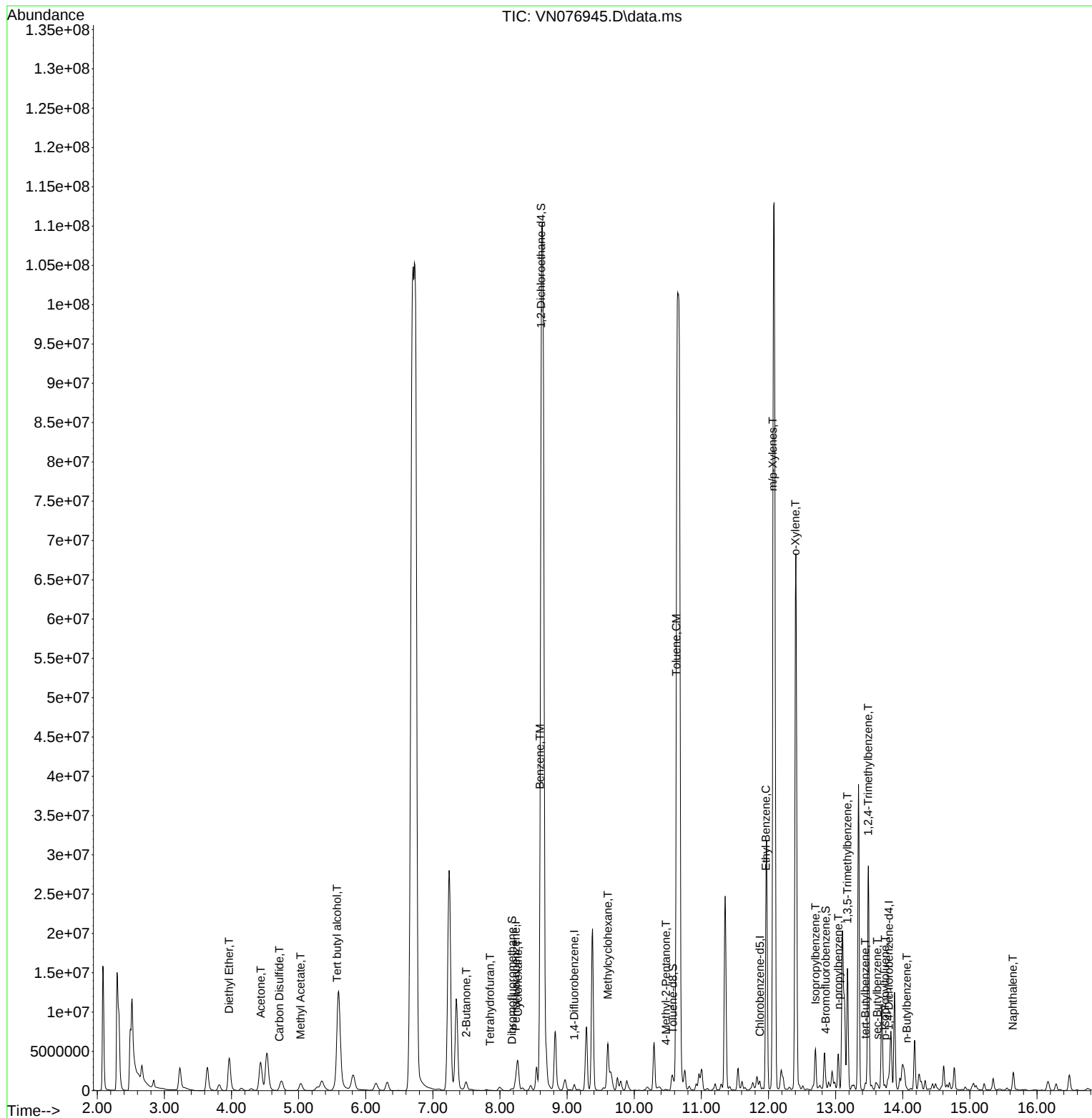
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031023\
Data File : VN076945.D
Acq On : 10 Mar 2023 23:39
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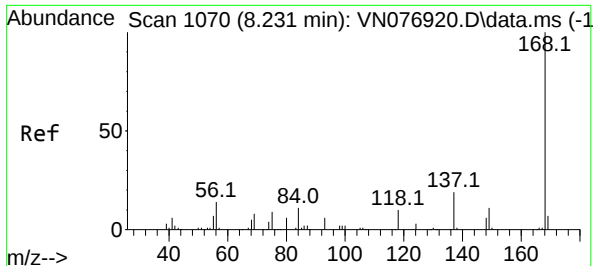
Instrument :
MSVOA_N
ClientSampleId :
MORRIS-030823

Quant Time: Mar 13 01:27:36 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031023W.M
Quant Title : SW846 8260
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Reviewed By :John Carlone 03/13/2023
Supervised By :Mahesh Dadoda 03/13/2023





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1071
Delta R.T. 0.005 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

Instrument :

MSVOA_N

ClientSampleId :

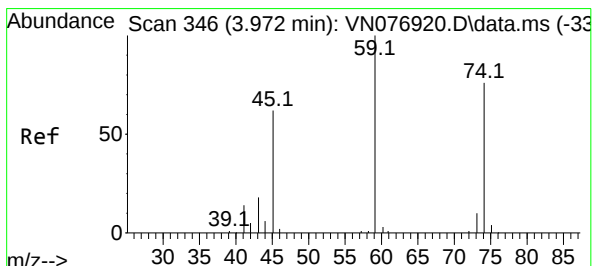
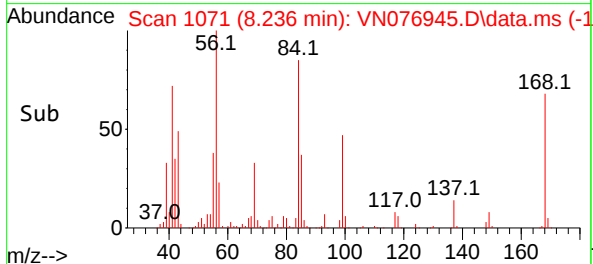
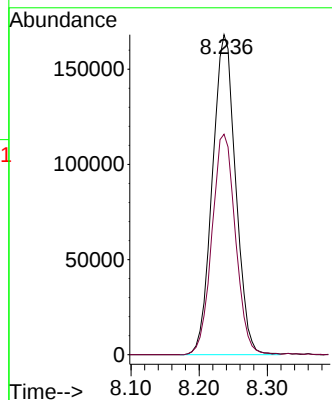
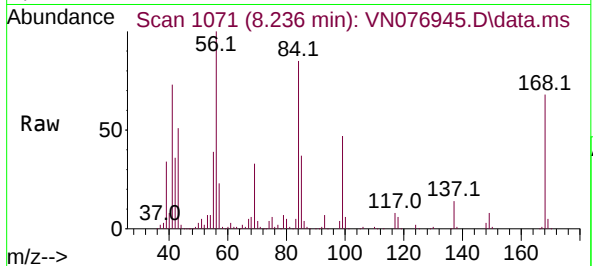
MORRIS-030823

Tgt Ion:168 Resp: 398892
Ion Ratio Lower Upper
168 100
99 68.9 48.6 73.0

Manual Integrations

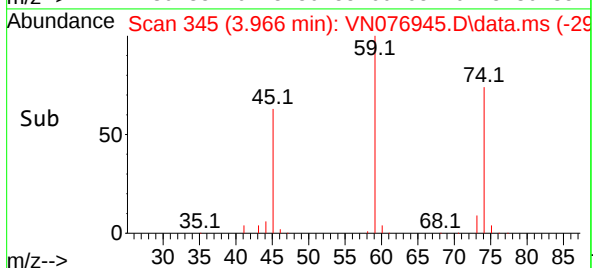
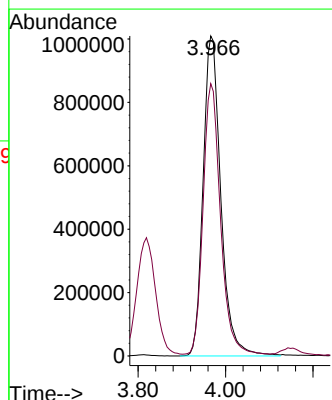
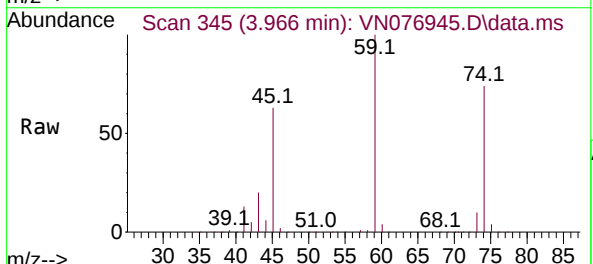
APPROVED

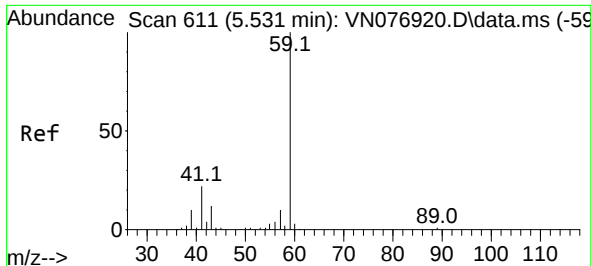
Reviewed By :John Carlone 03/13/2023
Supervised By :Mahesh Dadoda 03/13/2023



#8
Diethyl Ether
Concen: 945.526 ug/l
RT: 3.966 min Scan# 345
Delta R.T. -0.006 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

Tgt Ion: 74 Resp: 2848681
Ion Ratio Lower Upper
74 100
45 84.4 35.5 106.5





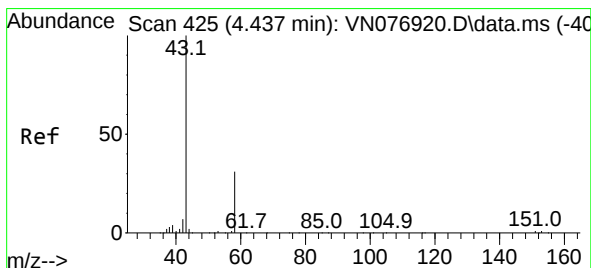
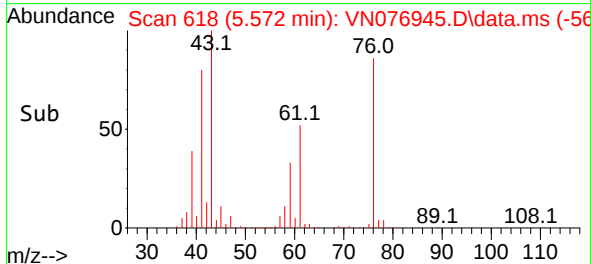
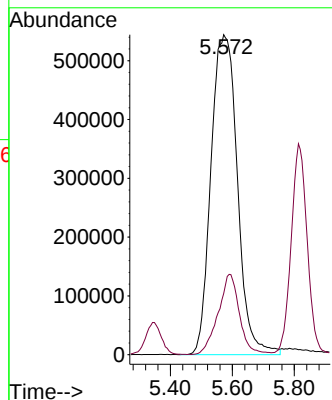
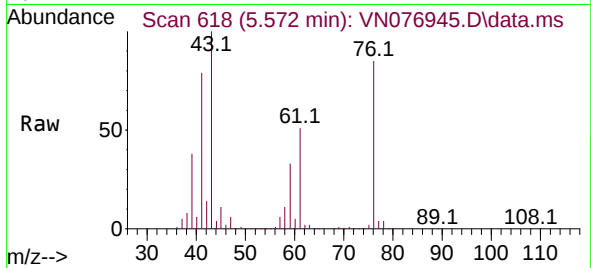
#11
Tert butyl alcohol
Concen: 3888.638 ug/l
RT: 5.572 min Scan# 611
Delta R.T. 0.041 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

Instrument :
MSVOA_N
ClientSampleId :
MORRIS-030823

Tgt Ion: 59 Resp: 3220024
Ion Ratio Lower Upper
59 100
57 20.2 8.6 12.8

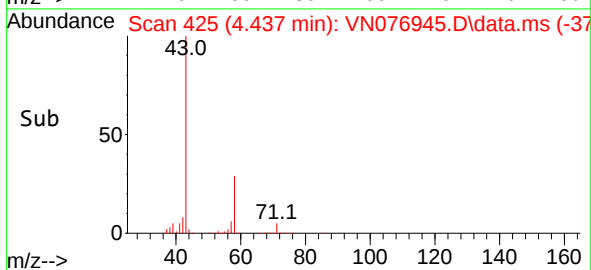
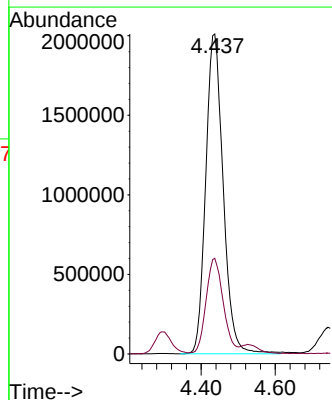
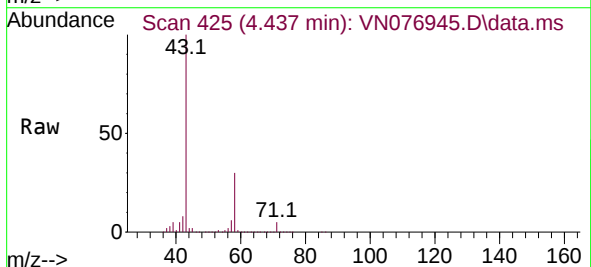
Manual Integrations
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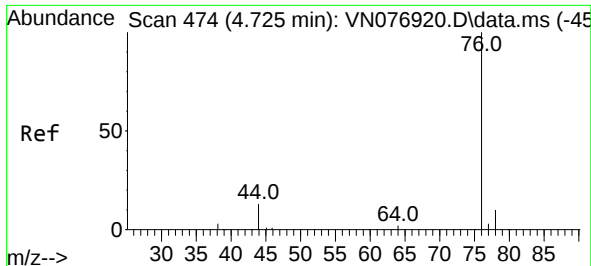
Reviewed By :John Carlone 03/13/2023
Supervised By :Mahesh Dadoda 03/13/2023



#16
Acetone
Concen: 3183.665 ug/l
RT: 4.437 min Scan# 425
Delta R.T. -0.000 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

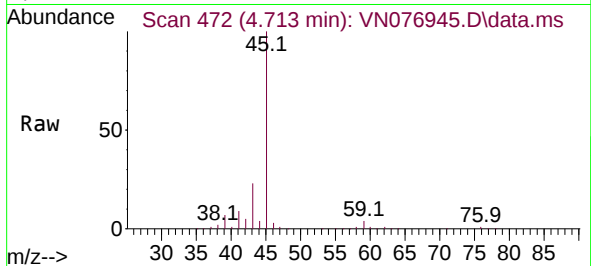
Tgt Ion: 43 Resp: 6566859
Ion Ratio Lower Upper
43 100
58 29.7 28.2 42.2





#17
Carbon Disulfide
Concen: 1.004 ug/l
RT: 4.713 min Scan# 41
Delta R.T. -0.012 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

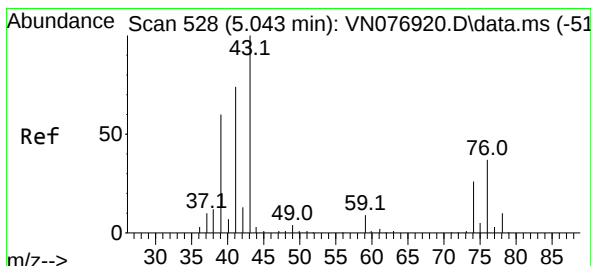
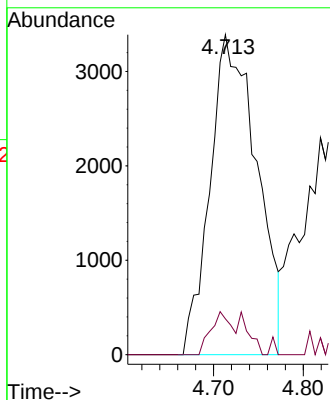
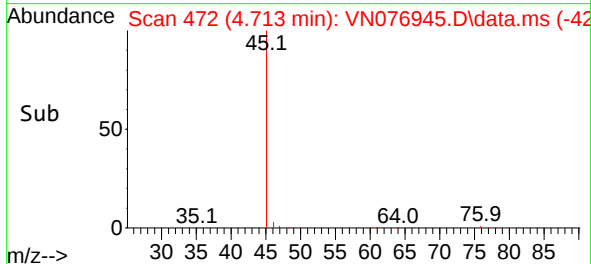
Instrument :
MSVOA_N
ClientSampleId :
MORRIS-030823



Tgt Ion: 76 Resp: 1226
Ion Ratio Lower Upper
76 100
78 11.2 7.8 11.8

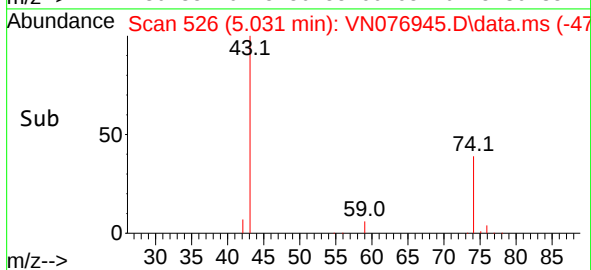
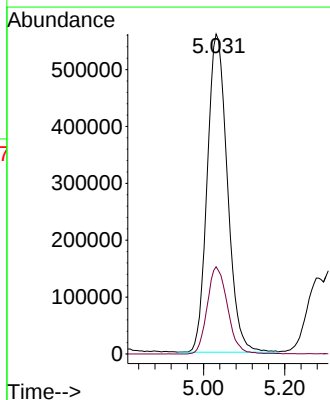
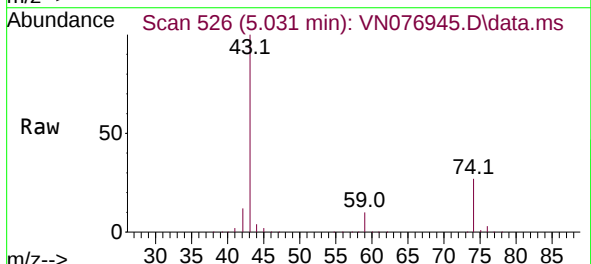
Manual Integrations
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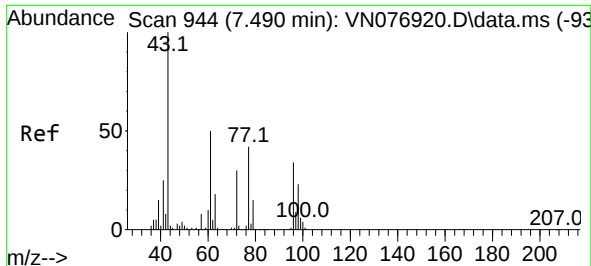
Reviewed By :John Carlone 03/13/2023
Supervised By :Mahesh Dadoda 03/13/2023



#18
Methyl Acetate
Concen: 252.624 ug/l
RT: 5.031 min Scan# 526
Delta R.T. -0.012 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

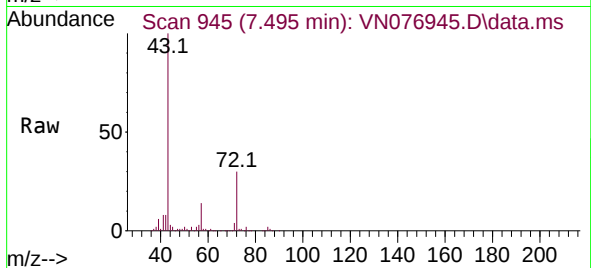
Tgt Ion: 43 Resp: 1921756
Ion Ratio Lower Upper
43 100
74 27.7 25.9 38.9





#25
2-Butanone
Concen: 478.049 ug/l
RT: 7.495 min Scan# 944
Delta R.T. 0.006 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

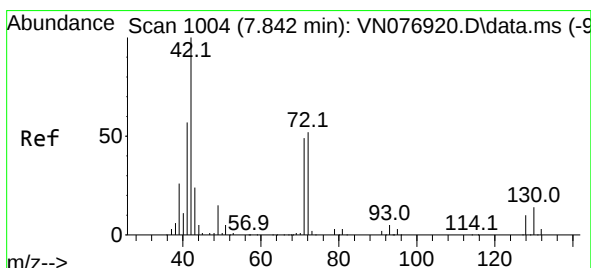
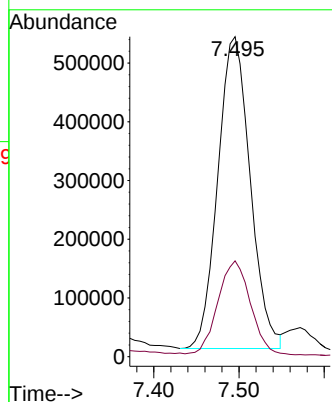
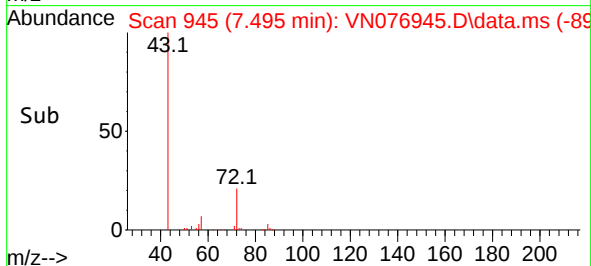
Instrument :
MSVOA_N
ClientSampleId :
MORRIS-030823



Tgt Ion: 43 Resp: 140241
Ion Ratio Lower Upper
43 100
72 29.6 28.8 43.2

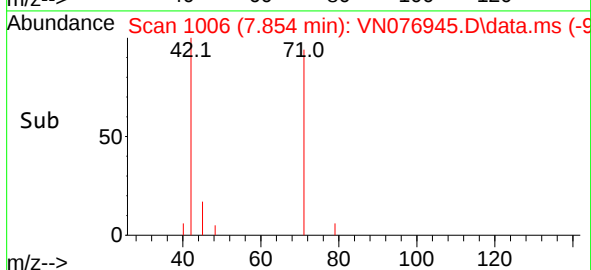
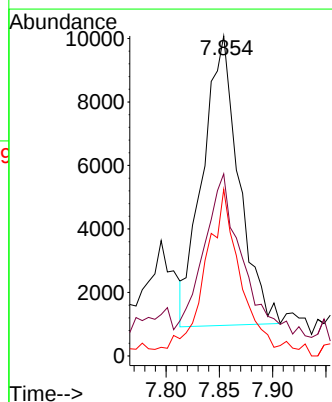
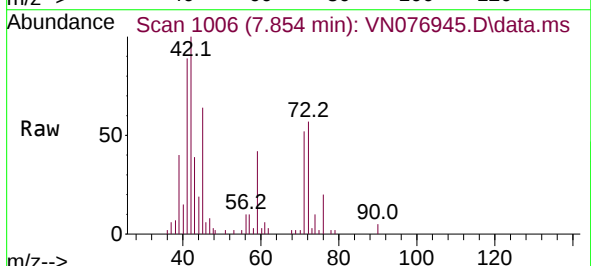
Manual Integrations
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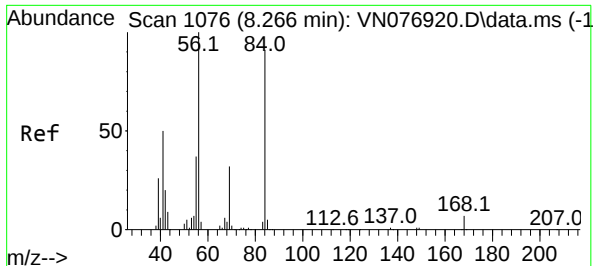
Reviewed By :John Carlone 03/13/2023
Supervised By :Mahesh Dadoda 03/13/2023



#29
Tetrahydrofuran
Concen: 11.769 ug/l
RT: 7.854 min Scan# 1006
Delta R.T. 0.012 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

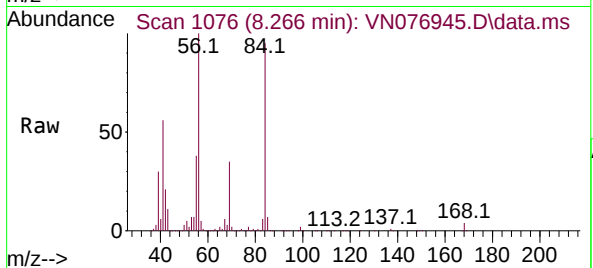
Tgt Ion: 42 Resp: 21400
Ion Ratio Lower Upper
42 100
72 61.6 48.6 73.0
71 50.8 45.1 67.7





#31
Cyclohexane
Concen: 253.555 ug/l
RT: 8.266 min Scan# 1076
Delta R.T. -0.000 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

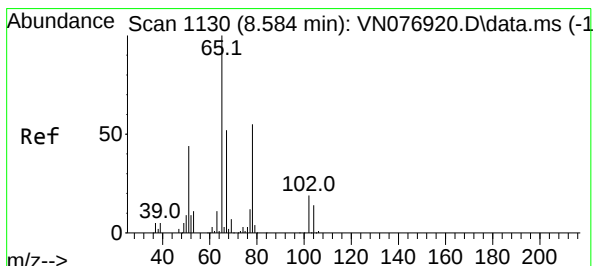
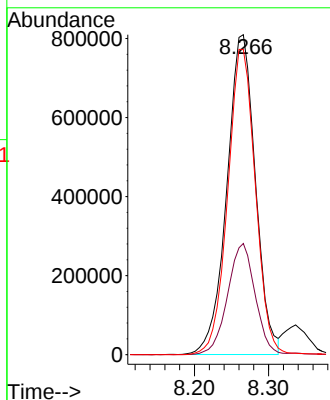
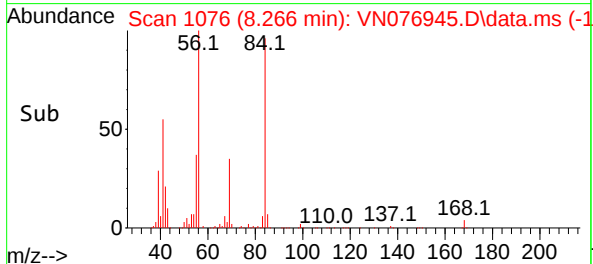
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MSVOA_N
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MORRIS-030823



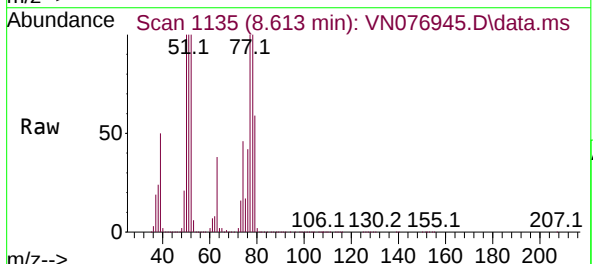
Tgt Ion: 56 Resp: 216546
Ion Ratio Lower Upper
56 100
69 34.7 27.0 40.6
84 95.4 82.9 124.3

Manual Integrations
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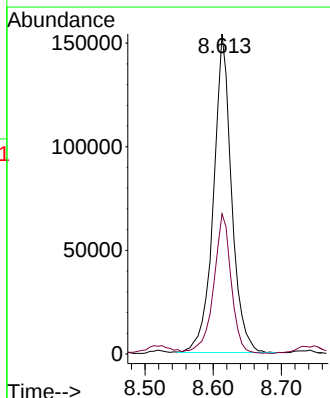
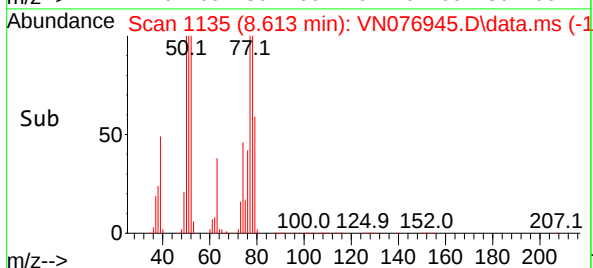
Reviewed By :John Carlone 03/13/2023
Supervised By :Mahesh Dadoda 03/13/2023

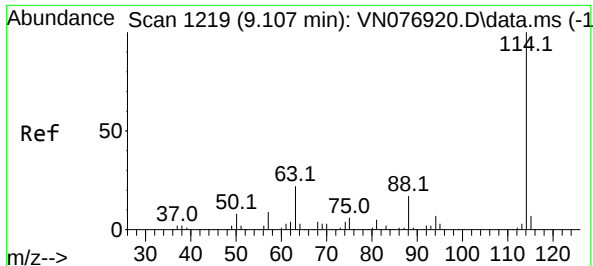


#33
1,2-Dichloroethane-d4
Concen: 47.709 ug/l
RT: 8.613 min Scan# 1135
Delta R.T. 0.029 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39



Tgt Ion: 65 Resp: 283992
Ion Ratio Lower Upper
65 100
67 42.5 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN076945.D

Acq: 10 Mar 2023 23:39

Instrument :

MSVOA_N

ClientSampleId :

MORRIS-030823

Tgt Ion:114 Resp: 60231

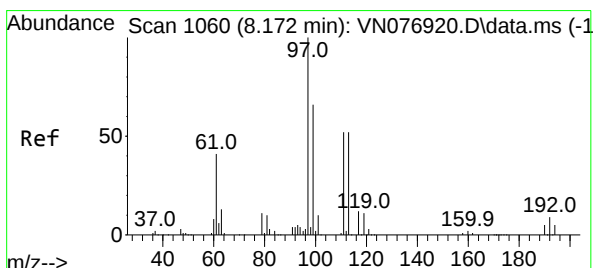
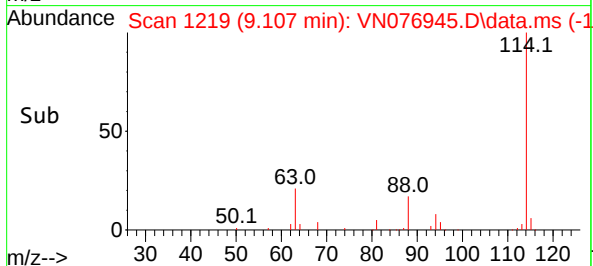
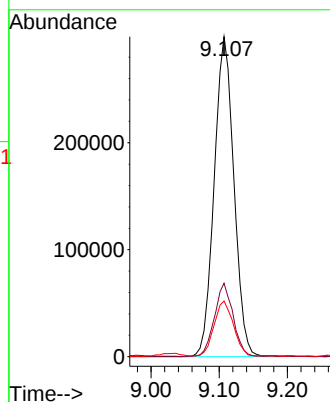
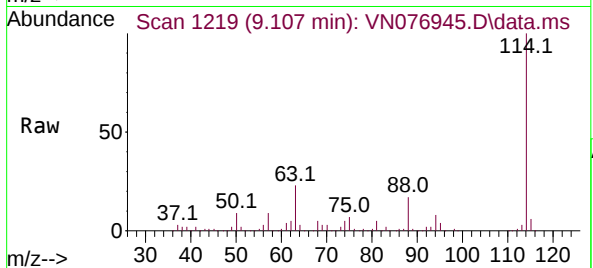
Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	36.6
88	17.2	0.0	28.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/13/2023

Supervised By :Mahesh Dadoda 03/13/2023



#35

Dibromofluoromethane

Concen: 43.901 ug/l

RT: 8.178 min Scan# 1061

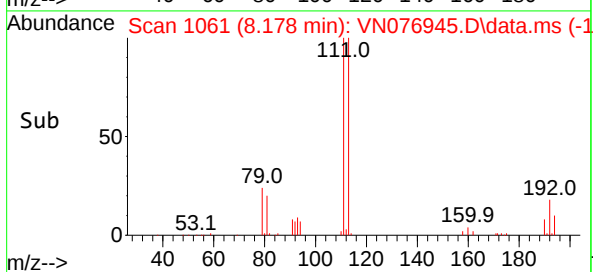
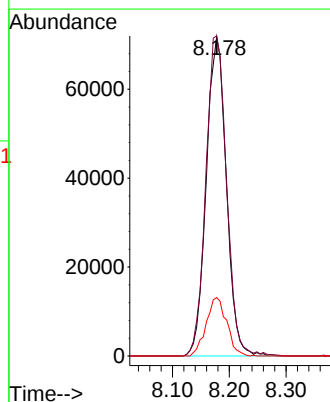
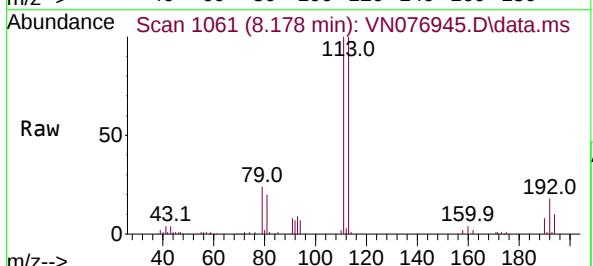
Delta R.T. 0.006 min

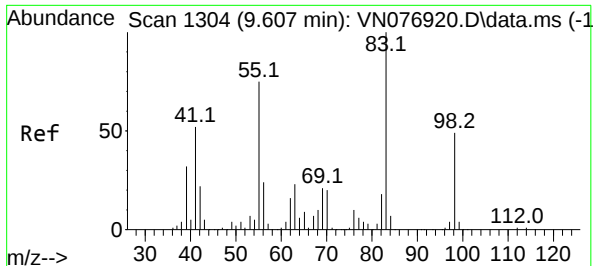
Lab File: VN076945.D

Acq: 10 Mar 2023 23:39

Tgt Ion:113 Resp: 176229

Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.8	122.8
192	18.7	13.9	20.9





#39

Methylcyclohexane

Concen: 343.053 ug/l

RT: 9.607 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN076945.D

Acq: 10 Mar 2023 23:39

Instrument :

MSVOA_N

ClientSampleId :

MORRIS-030823

Tgt Ion: 83 Resp: 2585392

Ion Ratio Lower Upper

83 100

55 74.2 47.0 70.4

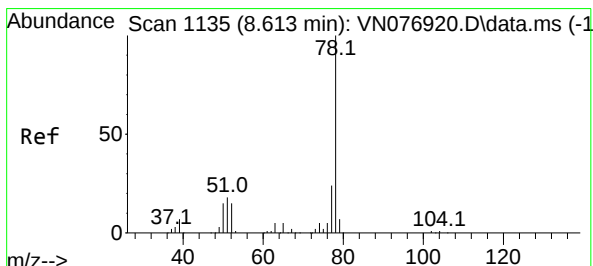
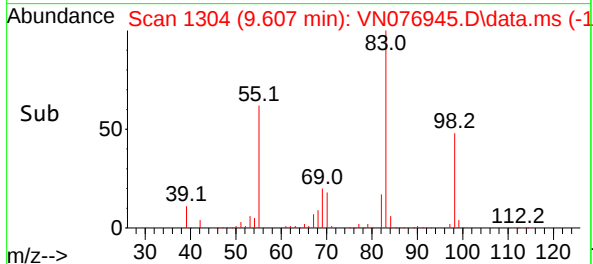
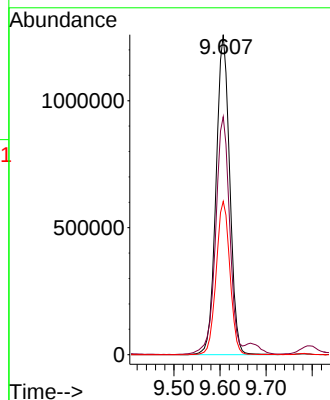
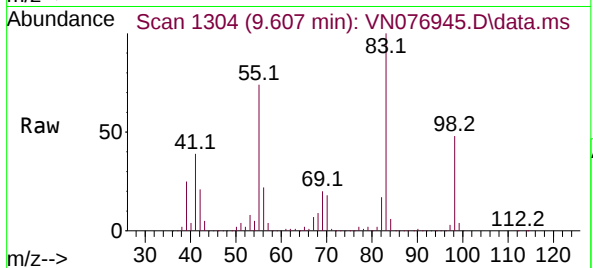
98 47.9 39.4 59.0

Manual Integrations

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Reviewed By :John Carlone 03/13/2023

Supervised By :Mahesh Dadoda 03/13/2023



#40

Benzene

Concen: 2575.565 ug/l m

RT: 8.595 min Scan# 1132

Delta R.T. -0.018 min

Lab File: VN076945.D

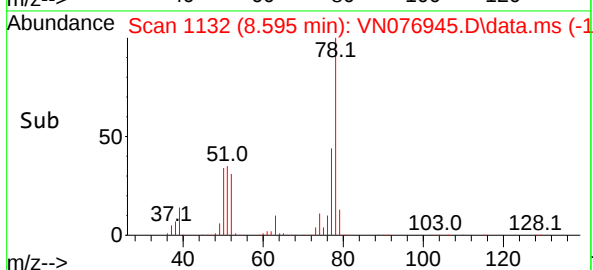
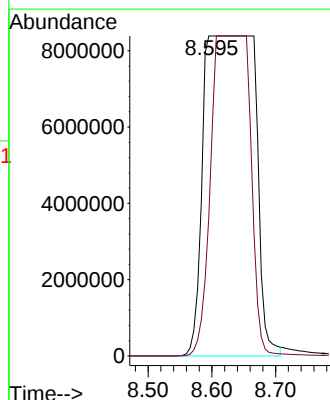
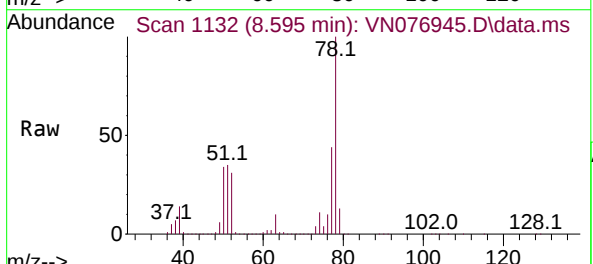
Acq: 10 Mar 2023 23:39

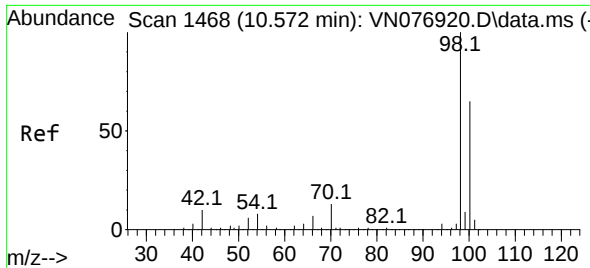
Tgt Ion: 78 Resp:47133721

Ion Ratio Lower Upper

78 100

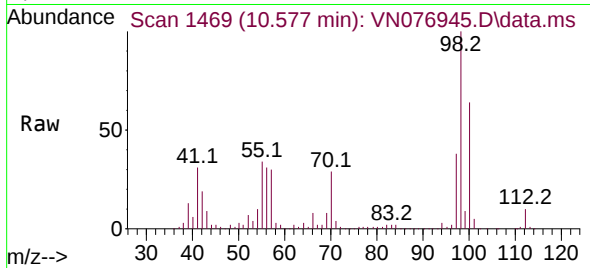
77 43.6 19.3 28.9





#50
Toluene-d8
Concen: 50.949 ug/l
RT: 10.577 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

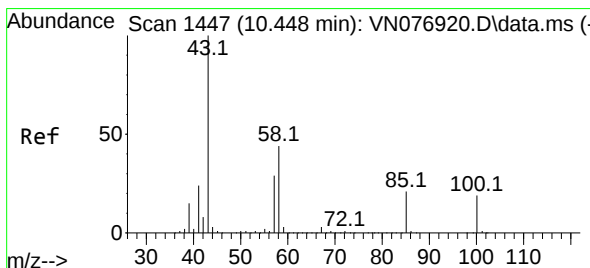
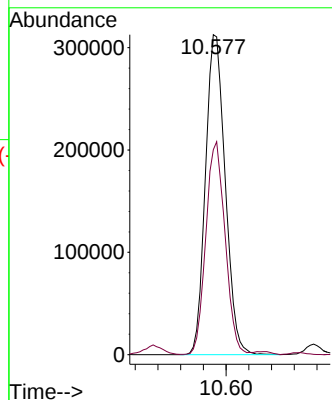
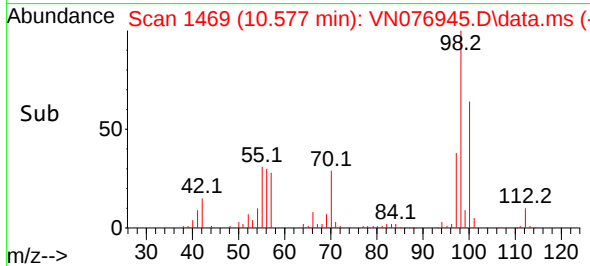
Instrument :
MSVOA_N
ClientSampleId :
MORRIS-030823



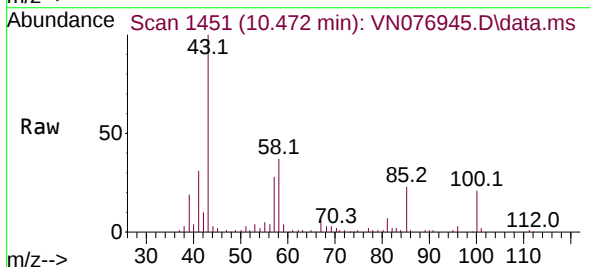
Tgt Ion: 98 Resp: 753760
Ion Ratio Lower Upper
98 100
100 64.9 52.8 79.2

Manual Integrations
APPROVED

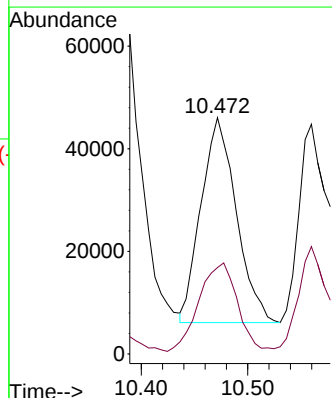
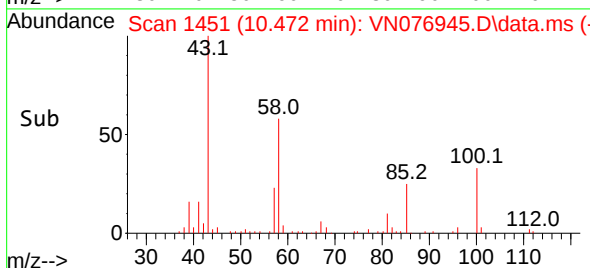
Reviewed By :John Carlone 03/13/2023
Supervised By :Mahesh Dadoda 03/13/2023

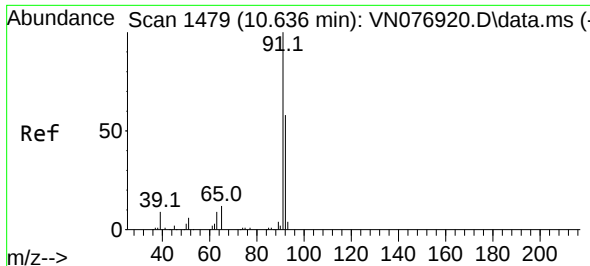


#51
4-Methyl-2-Pentanone
Concen: 17.444 ug/l
RT: 10.472 min Scan# 1451
Delta R.T. 0.023 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39



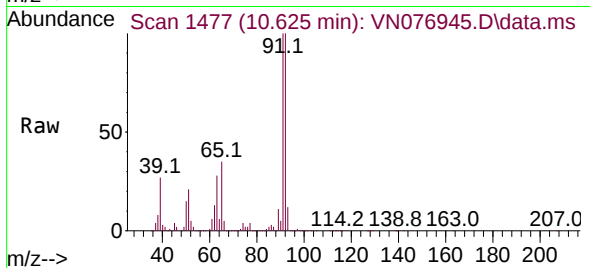
Tgt Ion: 43 Resp: 91844
Ion Ratio Lower Upper
43 100
58 46.9 37.4 56.0





#52
Toluene
Concen: 3567.773 ug/l m
RT: 10.625 min Scan# 1477
Delta R.T. -0.012 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

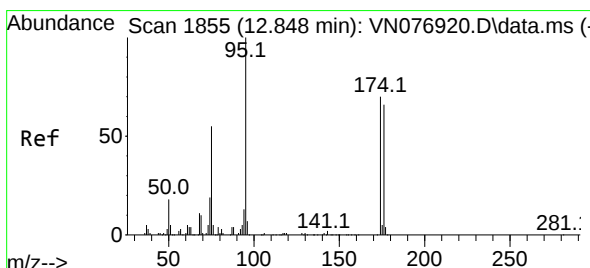
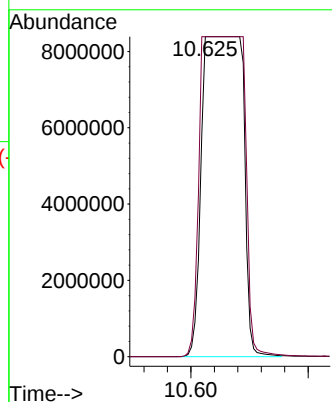
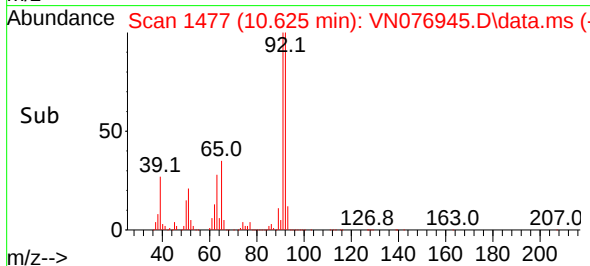
Instrument :
MSVOA_N
ClientSampleId :
MORRIS-030823



Tgt Ion: 92 Resp: 4018408
Ion Ratio Lower Upper
92 100
91 0.0 138.2 207.2

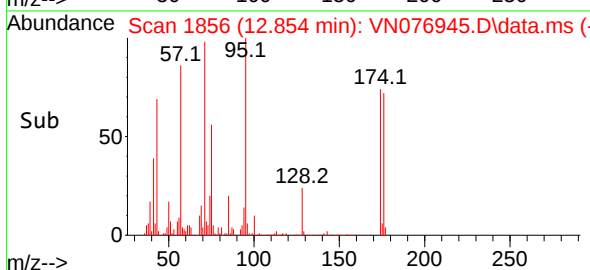
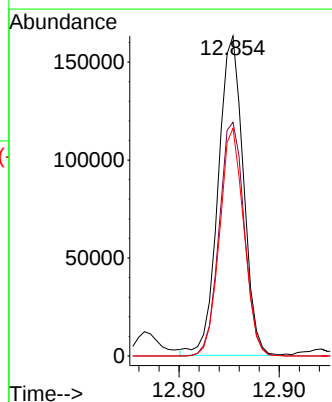
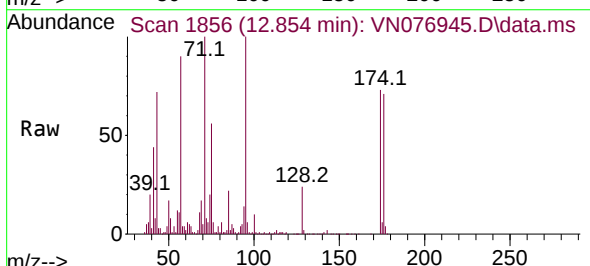
Manual Integrations
APPROVED

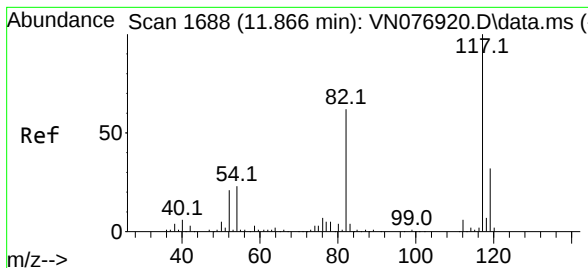
Reviewed By :John Carlone 03/13/2023
Supervised By :Mahesh Dadoda 03/13/2023



#62
4-Bromofluorobenzene
Concen: 52.448 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

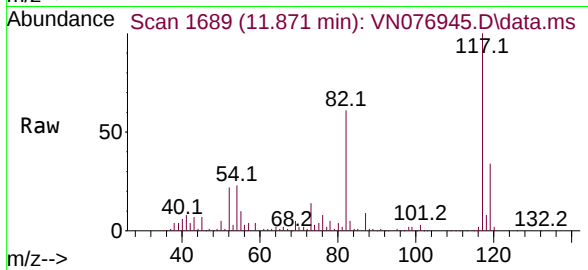
Tgt Ion: 95 Resp: 283814
Ion Ratio Lower Upper
95 100
174 73.0 0.0 162.4
176 68.7 0.0 157.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

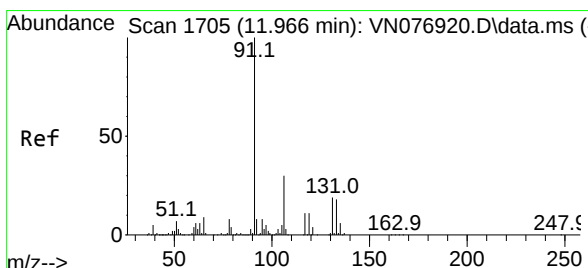
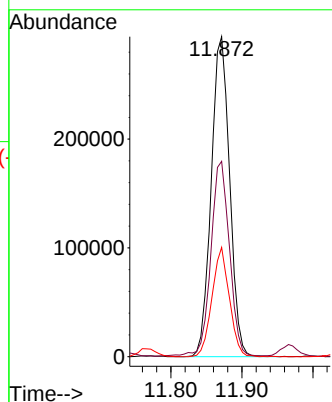
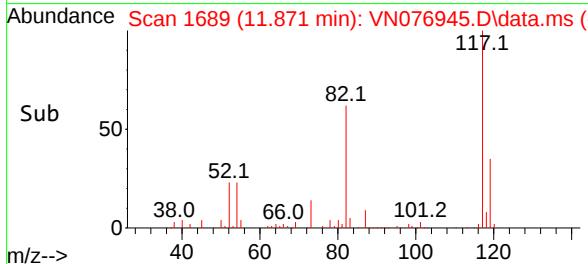
Instrument :
MSVOA_N
ClientSampleId :
MORRIS-030823



Tgt Ion:117 Resp: 528789
Ion Ratio Lower Upper
117 100
82 60.5 43.5 65.3
119 34.2 25.5 38.3

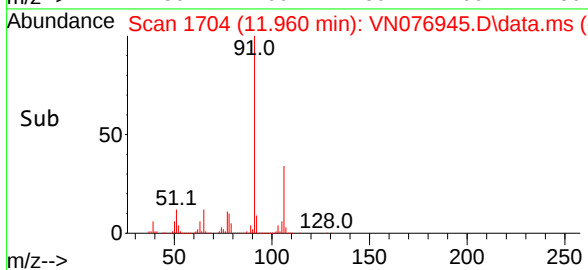
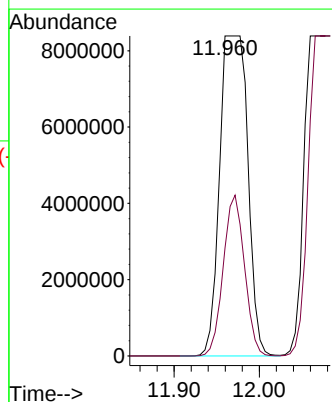
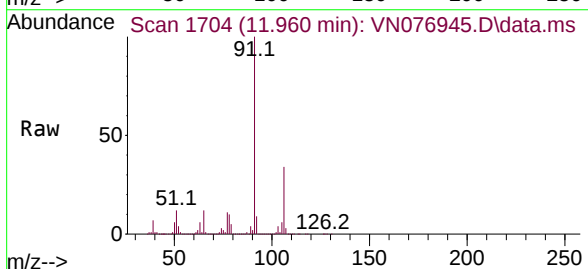
Manual Integrations
APPROVED

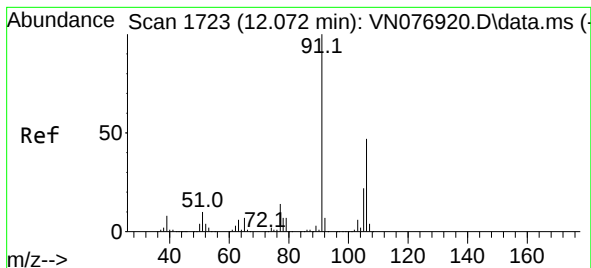
Reviewed By :John Carlone 03/13/2023
Supervised By :Mahesh Dadoda 03/13/2023



#67
Ethyl Benzene
Concen: 884.875 ug/l
RT: 11.960 min Scan# 1704
Delta R.T. -0.006 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

Tgt Ion: 91 Resp:19245668
Ion Ratio Lower Upper
91 100
106 33.7 25.1 37.7





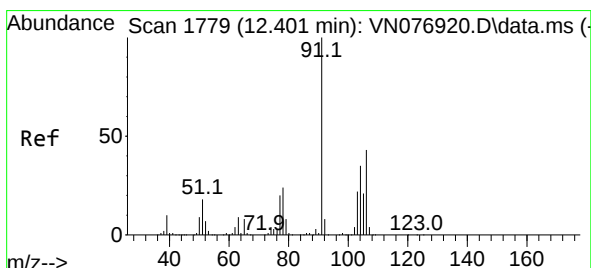
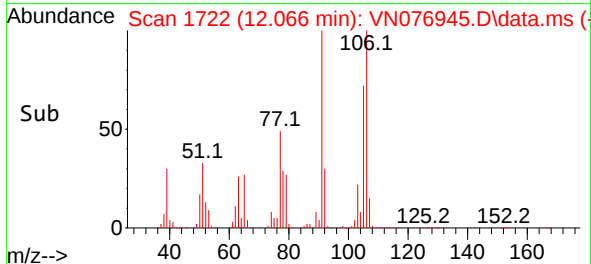
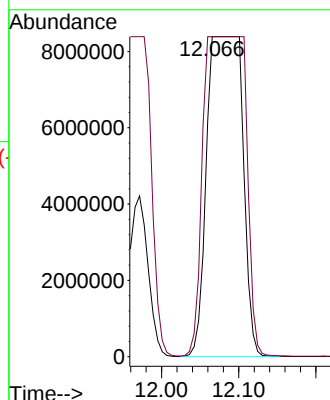
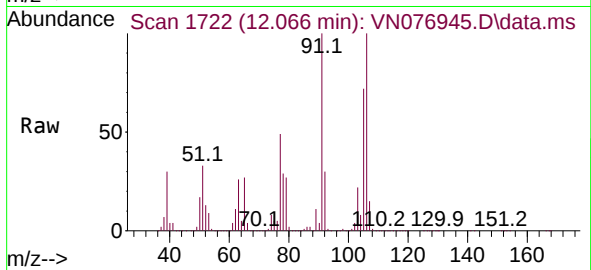
#68
m/p-Xylenes
Concen: 3301.469 ug/l m
RT: 12.066 min Scan# 1722
Delta R.T. -0.006 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

Instrument :
MSVOA_N
ClientSampleId :
MORRIS-030823

Tgt Ion:106 Resp:26988508
Ion Ratio Lower Upper
106 100
91 0.0 158.0 237.0

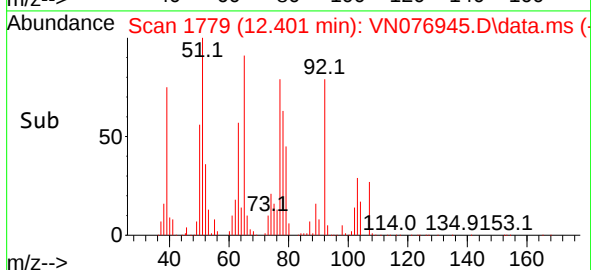
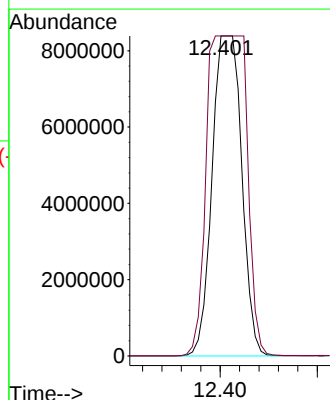
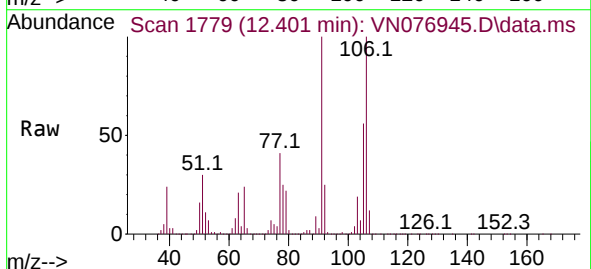
Manual Integrations
APPROVED

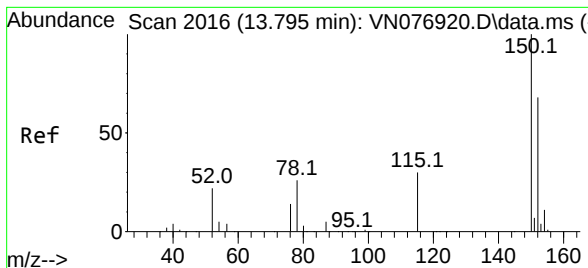
Reviewed By :John Carlone 03/13/2023
Supervised By :Mahesh Dadoda 03/13/2023



#69
o-Xylene
Concen: 2233.442 ug/l m
RT: 12.401 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

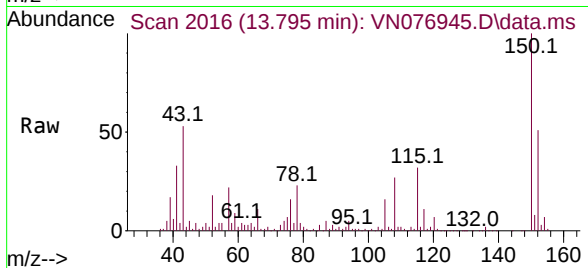
Tgt Ion:106 Resp:17725007
Ion Ratio Lower Upper
106 100
91 0.0 101.8 305.4#





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

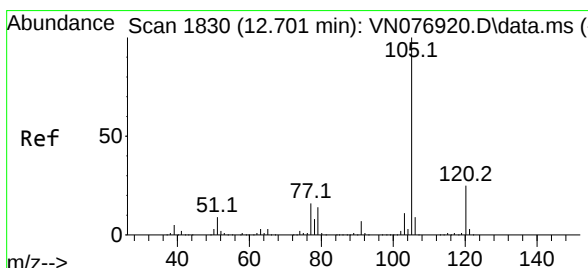
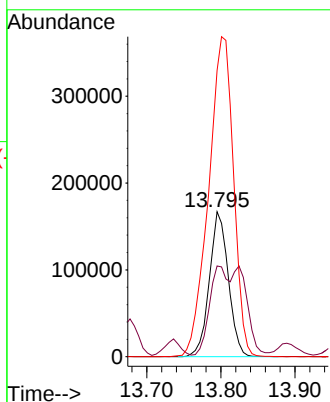
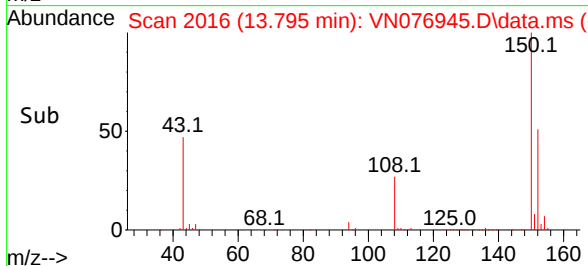
Instrument :
MSVOA_N
ClientSampleId :
MORRIS-030823



Tgt Ion:152 Resp: 296114
Ion Ratio Lower Upper
152 100
115 64.3 30.3 90.9
150 291.1 0.0 353.6

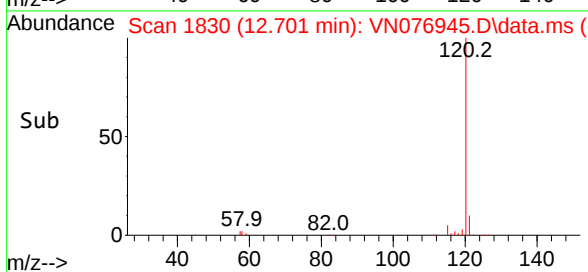
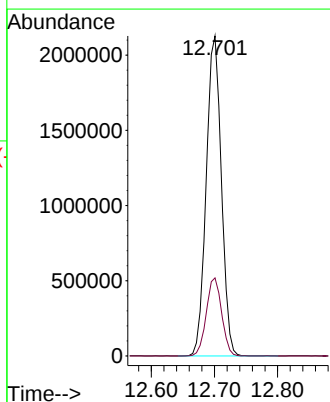
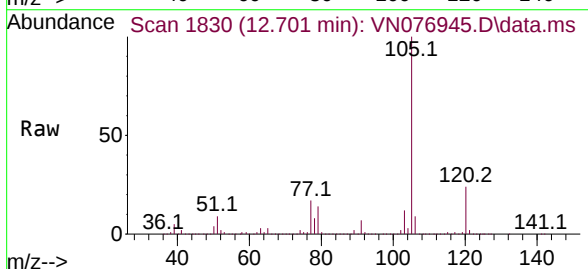
Manual Integrations
APPROVED

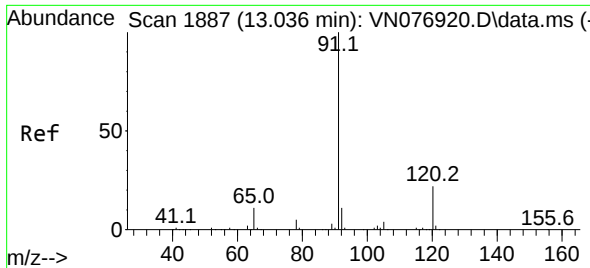
Reviewed By :John Carlone 03/13/2023
Supervised By :Mahesh Dadoda 03/13/2023



#73
Isopropylbenzene
Concen: 133.860 ug/l
RT: 12.701 min Scan# 1830
Delta R.T. -0.000 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

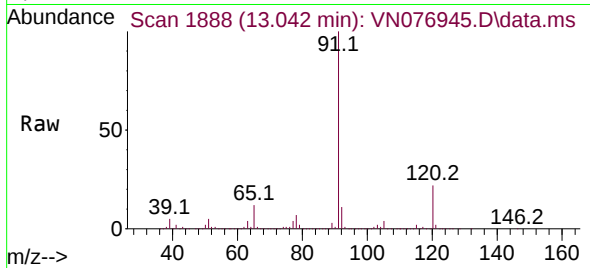
Tgt Ion:105 Resp: 3532002
Ion Ratio Lower Upper
105 100
120 24.8 13.8 41.4





#78
n-propylbenzene
Concen: 126.642 ug/l
RT: 13.042 min Scan# 1888
Delta R.T. 0.006 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

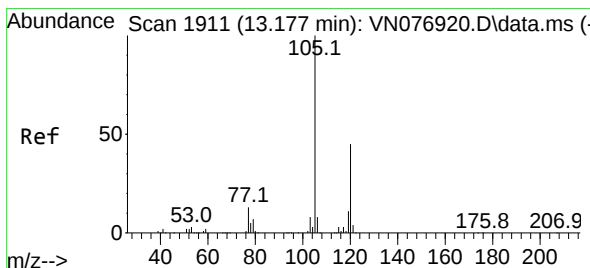
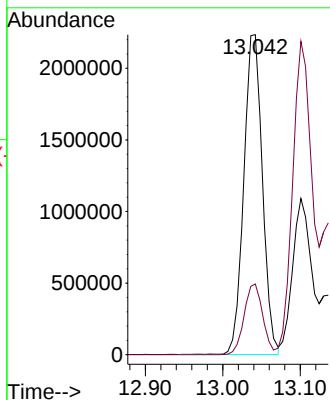
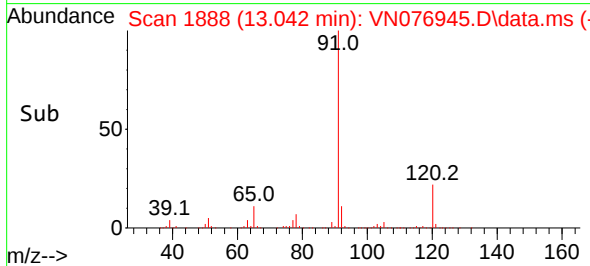
Instrument :
MSVOA_N
ClientSampleId :
MORRIS-030823



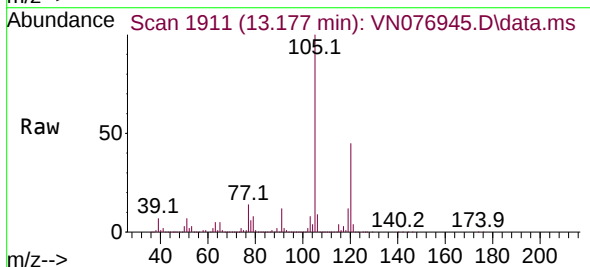
Tgt Ion: 91 Resp: 3721040
Ion Ratio Lower Upper
91 100
120 22.0 11.9 35.7

Manual Integrations
APPROVED

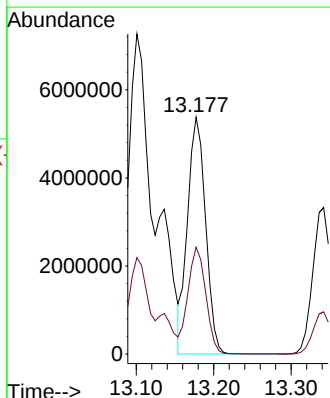
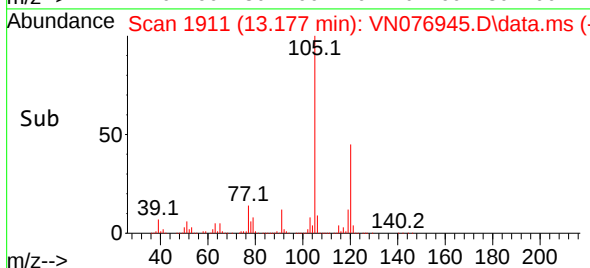
Reviewed By :John Carlone 03/13/2023
Supervised By :Mahesh Dadoda 03/13/2023

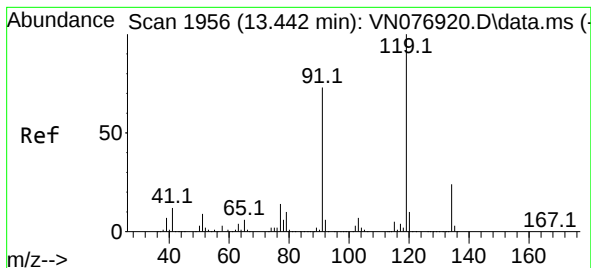


#80
1,3,5-Trimethylbenzene
Concen: 386.840 ug/l
RT: 13.177 min Scan# 1911
Delta R.T. -0.000 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39



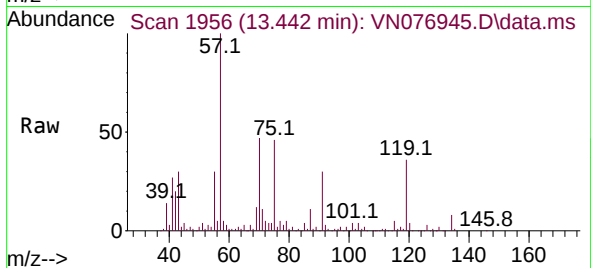
Tgt Ion:105 Resp: 8694730
Ion Ratio Lower Upper
105 100
120 44.6 25.2 75.6





#83
tert-Butylbenzene
Concen: 4.979 ug/l
RT: 13.442 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39

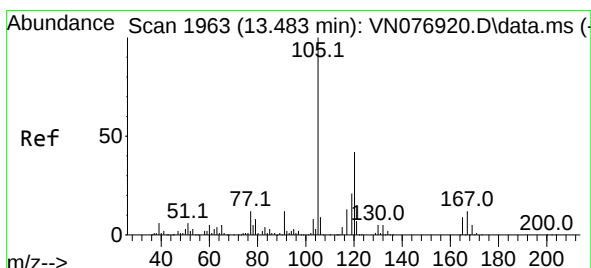
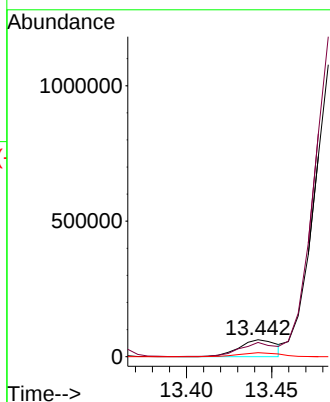
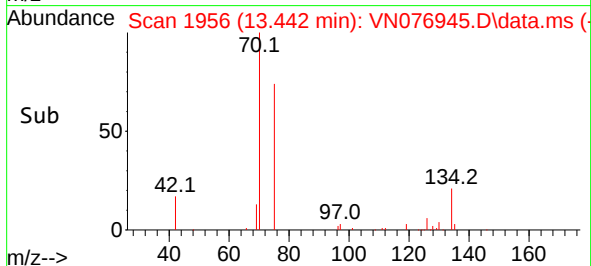
Instrument :
MSVOA_N
ClientSampleId :
MORRIS-030823



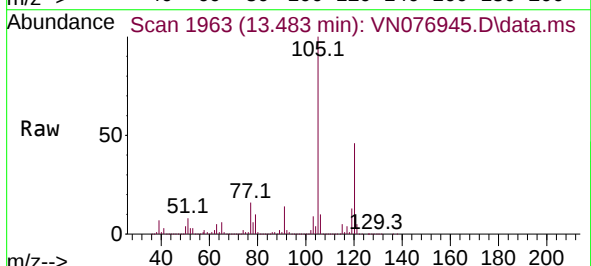
Tgt Ion:119 Resp: 95061
Ion Ratio Lower Upper
119 100
91 78.5 31.9 95.5
134 25.3 13.8 41.4

Manual Integrations
APPROVED

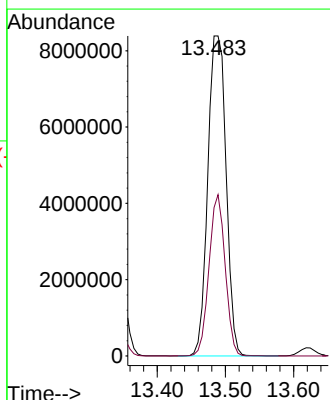
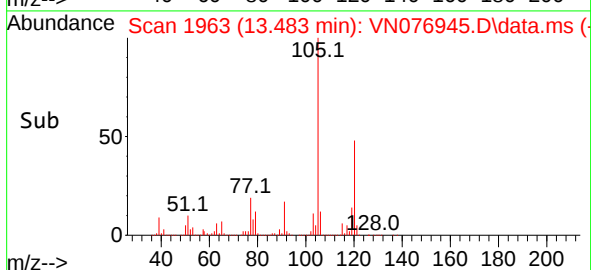
Reviewed By :John Carlone 03/13/2023
Supervised By :Mahesh Dadoda 03/13/2023

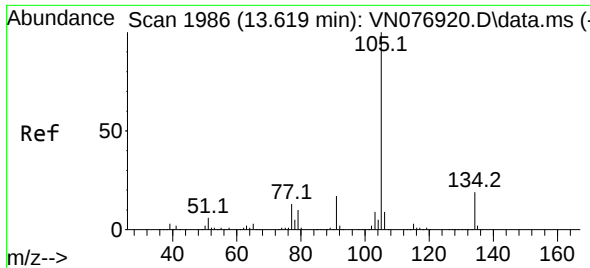


#84
1,2,4-Trimethylbenzene
Concen: 696.351 ug/l
RT: 13.483 min Scan# 1963
Delta R.T. -0.000 min
Lab File: VN076945.D
Acq: 10 Mar 2023 23:39



Tgt Ion:105 Resp:15658870
Ion Ratio Lower Upper
105 100
120 44.6 23.6 70.8





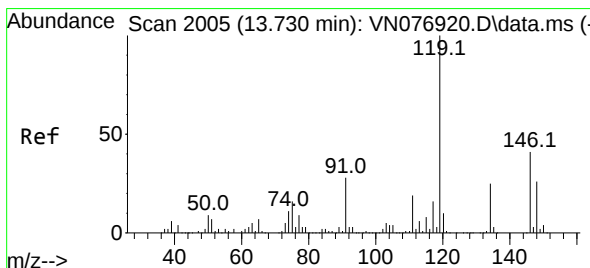
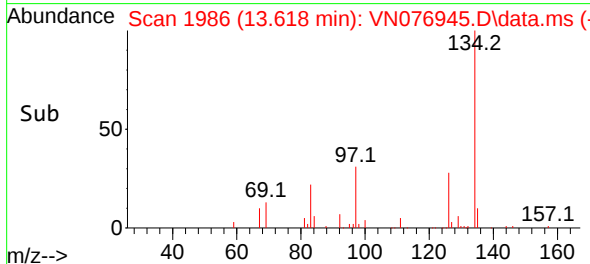
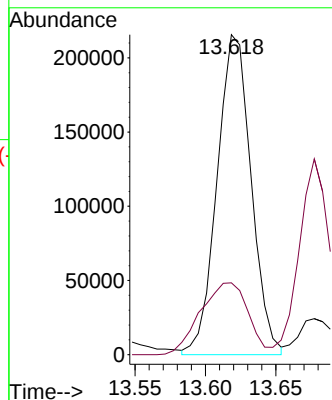
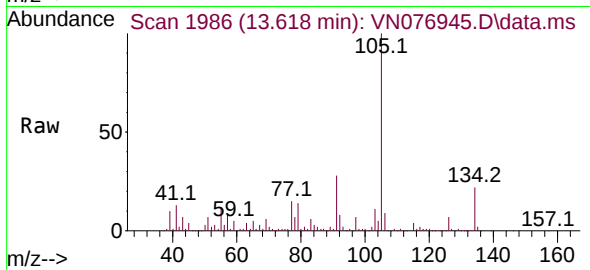
#85
 sec-Butylbenzene
 Concen: 13.859 ug/l m
 RT: 13.618 min Scan# 1986
 Delta R.T. -0.000 min
 Lab File: VN076945.D
 Acq: 10 Mar 2023 23:39

Instrument :
 MSVOA_N
 ClientSampleId :
 MORRIS-030823

Tgt Ion:105 Resp: 36275
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.2

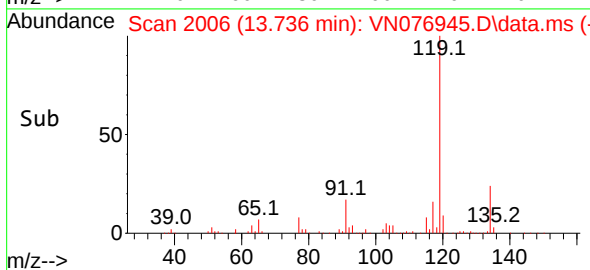
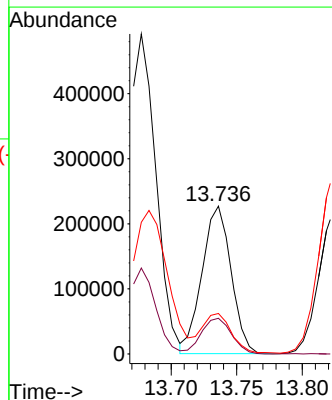
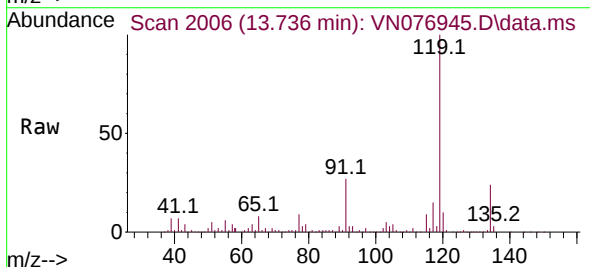
Manual Integrations
 APPROVED

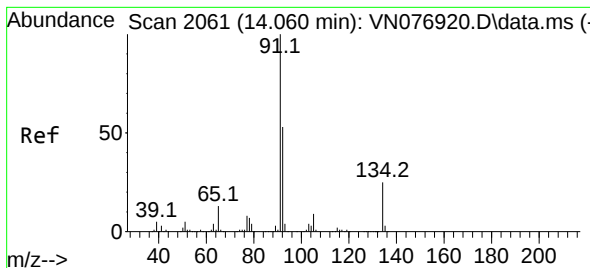
Reviewed By :John Carlone 03/13/2023
 Supervised By :Mahesh Dadoda 03/13/2023



#86
 p-Isopropyltoluene
 Concen: 16.534 ug/l
 RT: 13.736 min Scan# 2006
 Delta R.T. 0.006 min
 Lab File: VN076945.D
 Acq: 10 Mar 2023 23:39

Tgt Ion:119 Resp: 349463
 Ion Ratio Lower Upper
 119 100
 134 25.3 13.5 40.5
 91 27.8 11.2 33.6





#89

n-Butylbenzene

Concen: 6.577 ug/l m

RT: 14.060 min Scan# 2061

Delta R.T. -0.000 min

Lab File: VN076945.D

Acq: 10 Mar 2023 23:39

Instrument :

MSVOA_N

ClientSampleId :

MORRIS-030823

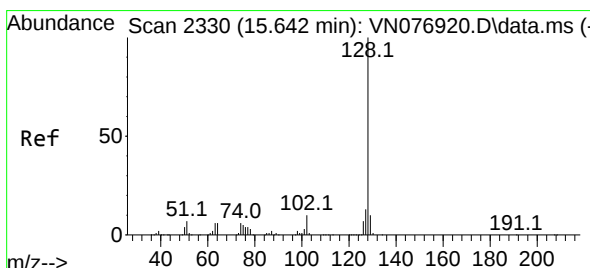
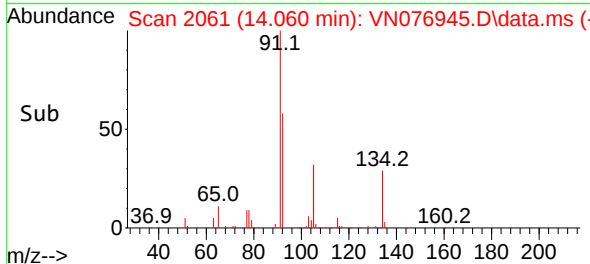
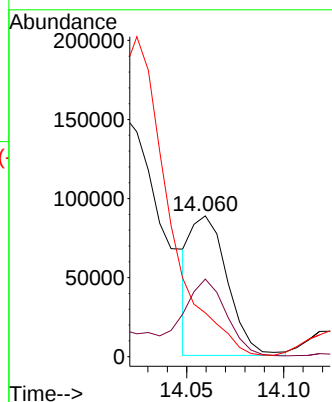
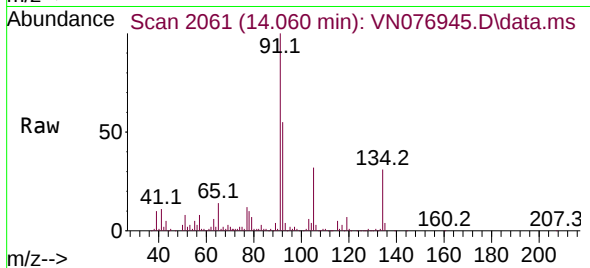
Tgt Ion:	91	Resp:	116009
Ion Ratio	Lower	Upper	
91	100		
92	0.0	26.6	79.7
134	0.0	13.6	40.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/13/2023

Supervised By :Mahesh Dadoda 03/13/2023



#95

Naphthalene

Concen: 29.663 ug/l

RT: 15.642 min Scan# 2330

Delta R.T. -0.000 min

Lab File: VN076945.D

Acq: 10 Mar 2023 23:39

Tgt Ion:	128	Resp:	530161
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.2	15.4
129	11.1	8.9	13.3

