

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031424\
 Data File : VN081407.D
 Acq On : 14 Mar 2024 14:05
 Operator : JC\MD
 Sample : P1727-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 240313044-02-VOA

Manual Integrations
 APPROVED

Reviewed By :John Carlone 03/15/2024
 Supervised By :Mahesh Dadoda 03/15/2024

Quant Time: Mar 15 01:12:23 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N030524W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 06 03:12:57 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	330766	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	580377	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	510786	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	202524	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	246710	51.586	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.180%			
35) Dibromofluoromethane	8.171	113	183666	51.653	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.300%			
50) Toluene-d8	10.571	98	700823	52.724	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.440%			
62) 4-Bromofluorobenzene	12.853	95	228259	48.586	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 97.180%			
Target Compounds					Qvalue	
4) Vinyl Chloride	2.518	62	2600	0.526	ug/l #	87
8) Diethyl Ether	3.965	74	9376	3.641	ug/l	95
11) Tert butyl alcohol	5.512	59	5222180	6244.694	ug/l	99
16) Acetone	4.424	43	26886	15.867	ug/l	100
17) Carbon Disulfide	4.712	76	4056	0.369	ug/l #	66
19) Methyl tert-butyl Ether	5.794	73	57283	4.382	ug/l	96
29) Tetrahydrofuran	7.841	42	1307238	675.566	ug/l #	88
40) Benzene	8.606	78	90774	5.301	ug/l	95
49) 1,4-Dioxane	9.700	88	8152	85.250	ug/l #	86
51) 4-Methyl-2-Pentanone	10.441	43	27714m	4.863	ug/l	
52) Toluene	10.629	92	25625	2.477	ug/l	90
65) Chlorobenzene	11.894	112	35662	3.313	ug/l	95
67) Ethyl Benzene	11.965	91	78797	4.064	ug/l	99
68) m/p-Xylenes	12.070	106	61420	8.417	ug/l	100
69) o-Xylene	12.400	106	37466	5.298	ug/l	99
73) Isopropylbenzene	12.694	105	10584	0.647	ug/l	92
80) 1,3,5-Trimethylbenzene	13.170	105	11264	0.833	ug/l	78
84) 1,2,4-Trimethylbenzene	13.482	105	45419	3.316	ug/l	89
86) p-Isopropyltoluene	13.735	119	13403	0.997	ug/l	94
88) 1,4-Dichlorobenzene	13.812	146	32674	4.465	ug/l	95
95) Naphthalene	15.641	128	7860	0.588	ug/l #	94

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

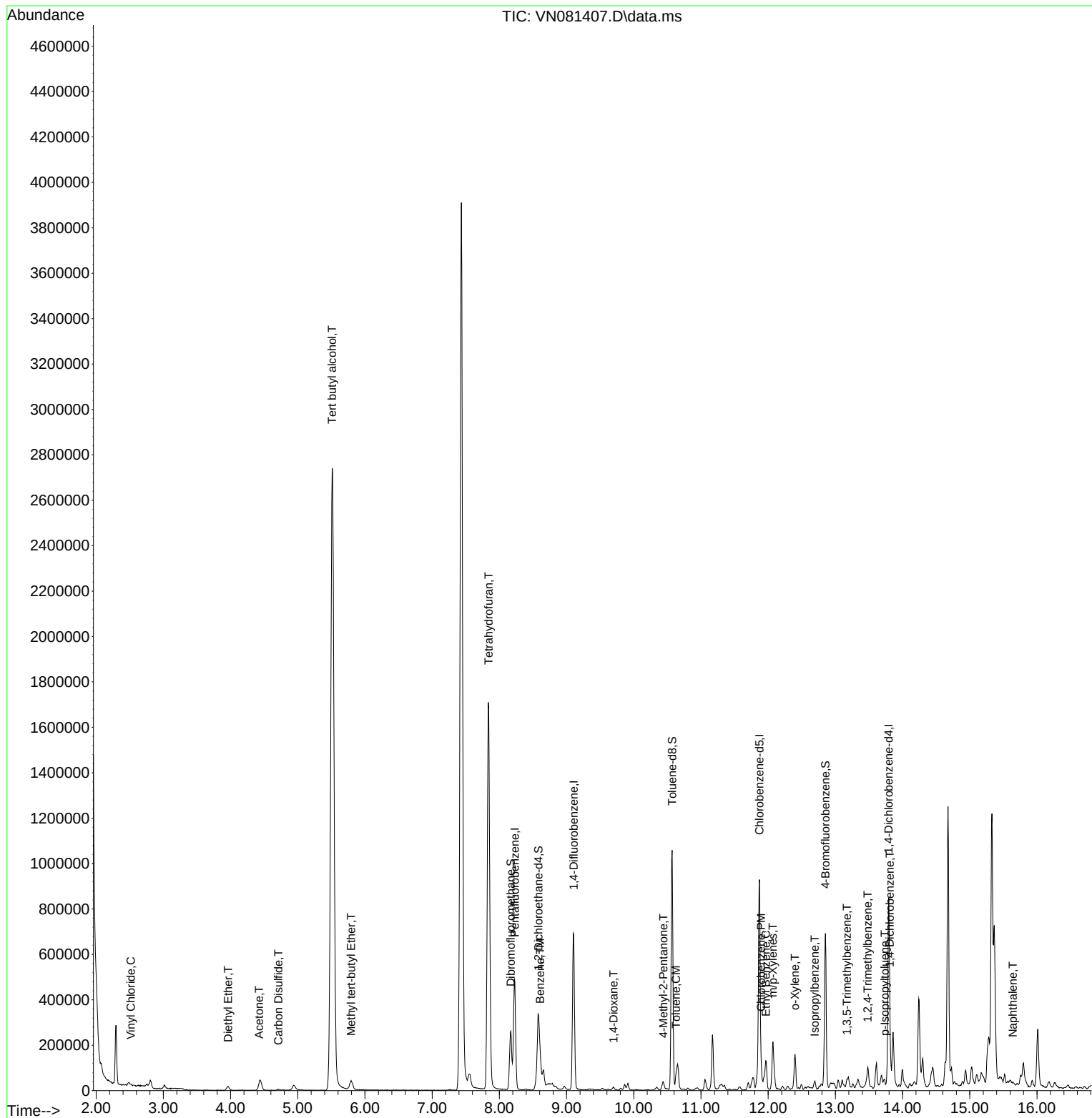
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031424\
Data File : VN081407.D
Acq On : 14 Mar 2024 14:05
Operator : JC\MD
Sample : P1727-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

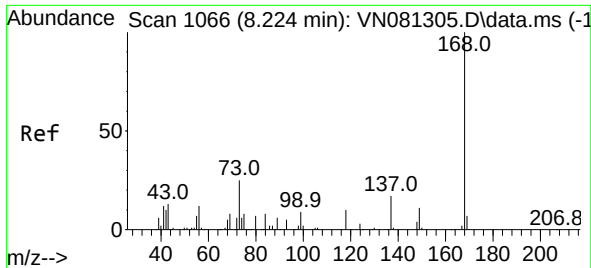
Instrument :
MSVOA_N
ClientSampleId :
240313044-02-VOA

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/15/2024
Supervised By :Mahesh Dadoda 03/15/2024

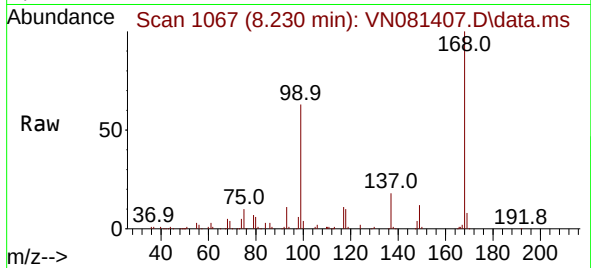
Quant Time: Mar 15 01:12:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N030524W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 06 03:12:57 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

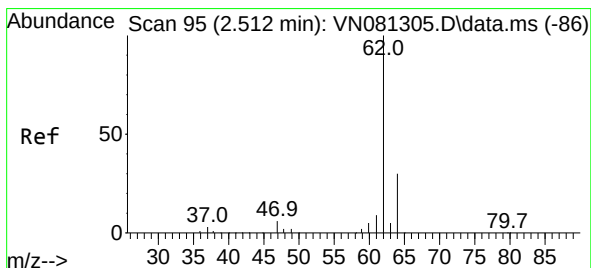
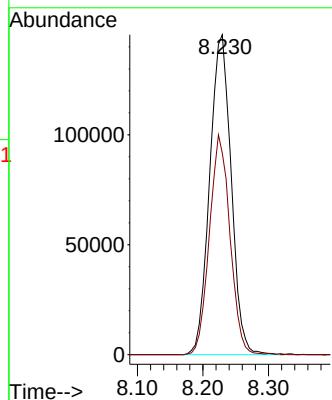
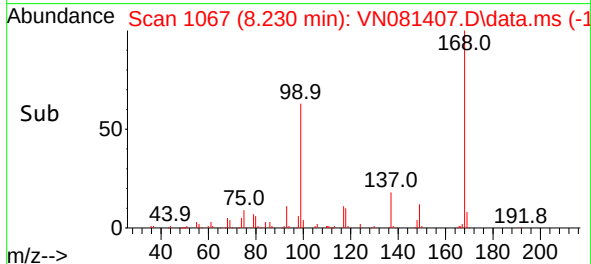
Instrument :
MSVOA_N
ClientSampleId :
240313044-02-VOA



Tgt Ion:168 Resp: 330760
Ion Ratio Lower Upper
168 100
99 63.0 59.9 89.9

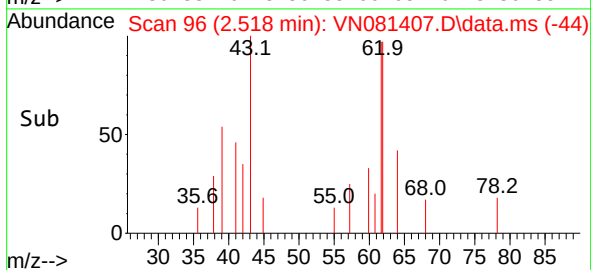
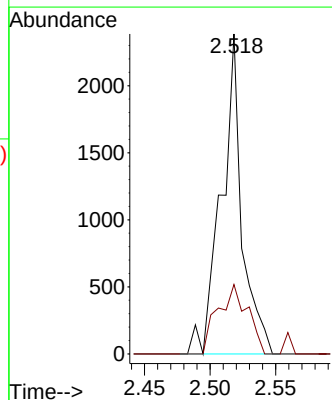
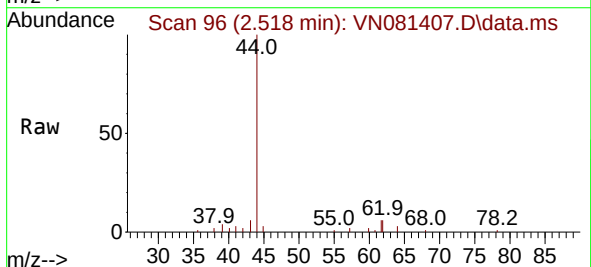
Manual Integrations
APPROVED

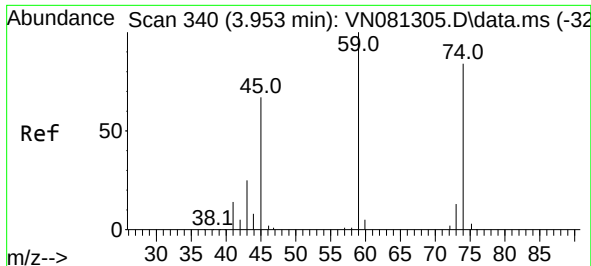
Reviewed By :John Carlone 03/15/2024
Supervised By :Mahesh Dadoda 03/15/2024



#4
Vinyl Chloride
Concen: 0.526 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

Tgt Ion: 62 Resp: 2600
Ion Ratio Lower Upper
62 100
64 21.7 22.7 34.1#

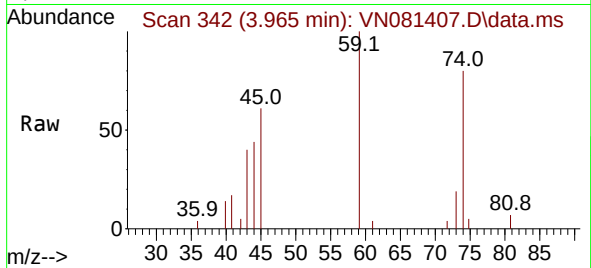




#8
Diethyl Ether

Concen: 3.641 ug/l
RT: 3.965 min Scan# 340
Delta R.T. 0.012 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

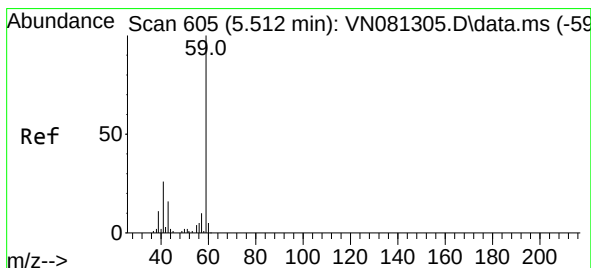
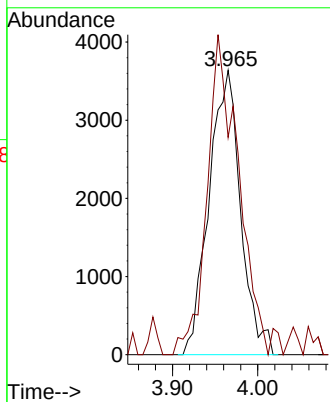
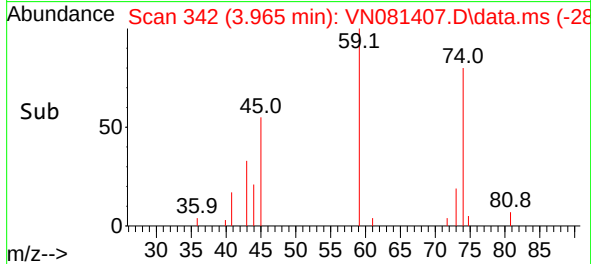
Instrument :
MSVOA_N
ClientSampleId :
240313044-02-VOA



Tgt Ion: 74 Resp: 9370
Ion Ratio Lower Upper
74 100
45 111.3 53.3 159.9

Manual Integrations
APPROVED

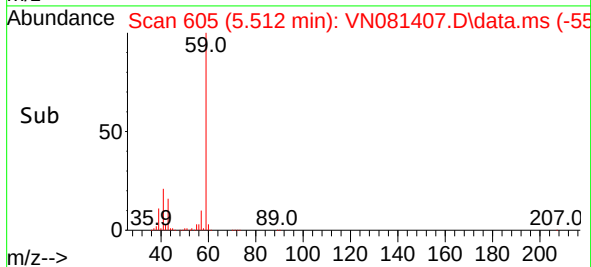
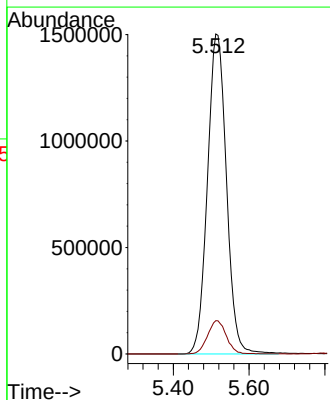
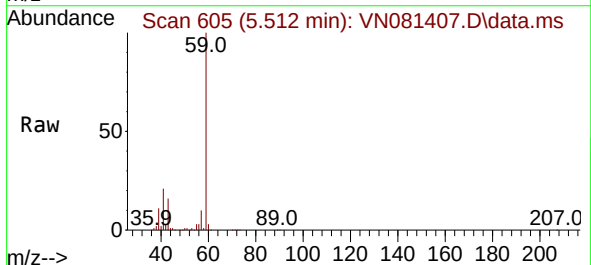
Reviewed By :John Carlone 03/15/2024
Supervised By :Mahesh Dadoda 03/15/2024

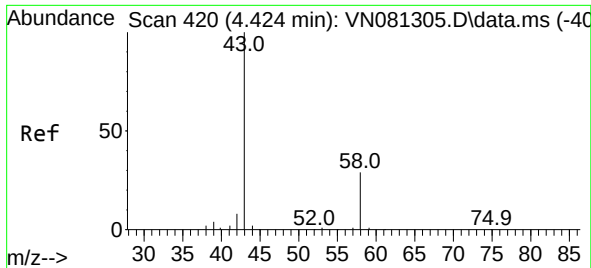


#11

Tert butyl alcohol
Concen: 6244.694 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

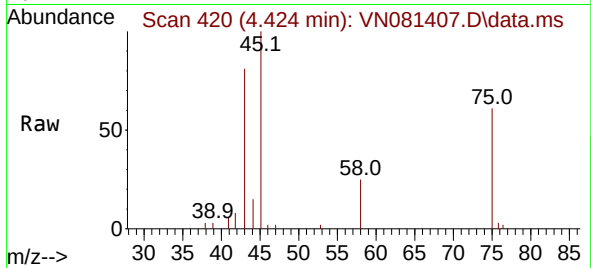
Tgt Ion: 59 Resp: 5222180
Ion Ratio Lower Upper
59 100
57 10.3 8.6 12.8





#16
Acetone
Concen: 15.867 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

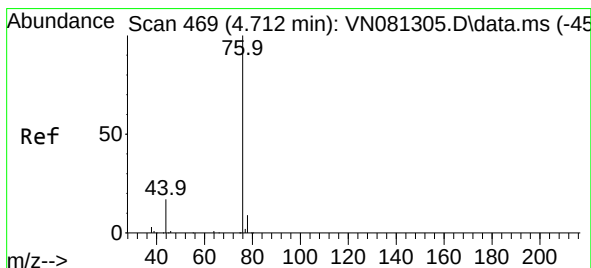
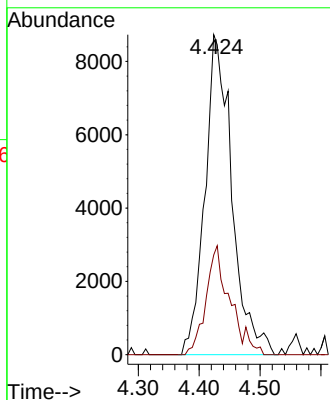
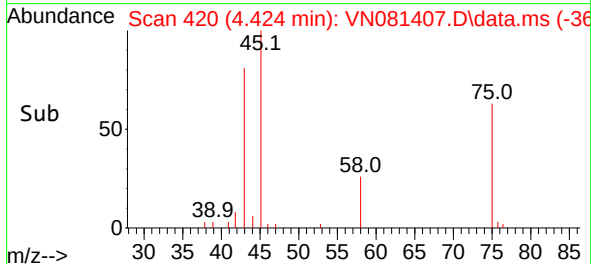
Instrument :
MSVOA_N
ClientSampleId :
240313044-02-VOA



Tgt Ion: 43 Resp: 2688
Ion Ratio Lower Upper
43 100
58 31.1 24.8 37.2

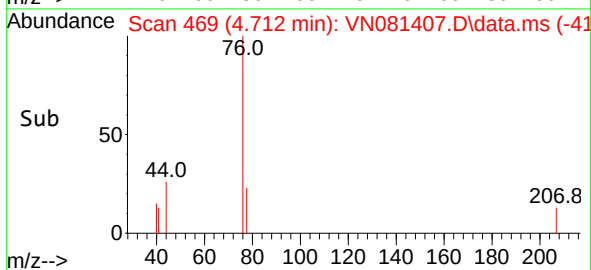
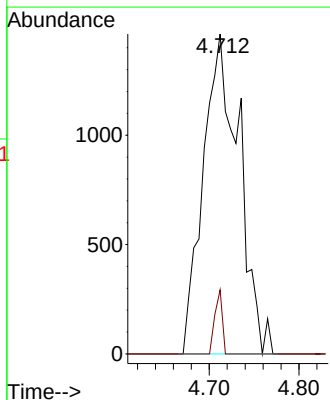
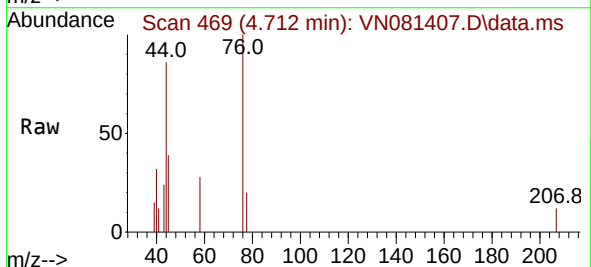
Manual Integrations
APPROVED

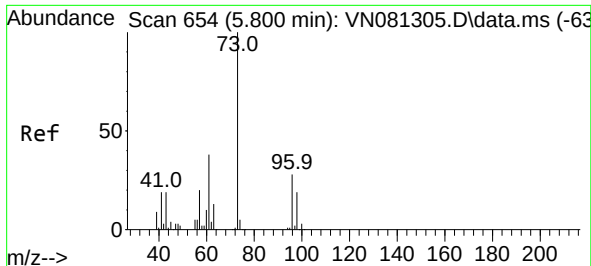
Reviewed By :John Carlone 03/15/2024
Supervised By :Mahesh Dadoda 03/15/2024



#17
Carbon Disulfide
Concen: 0.369 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

Tgt Ion: 76 Resp: 4056
Ion Ratio Lower Upper
76 100
78 20.0 6.3 9.5#





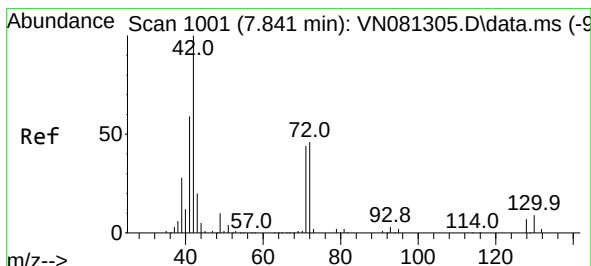
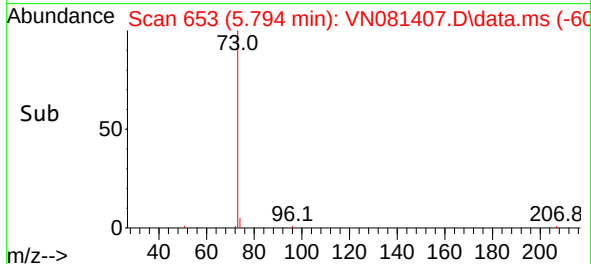
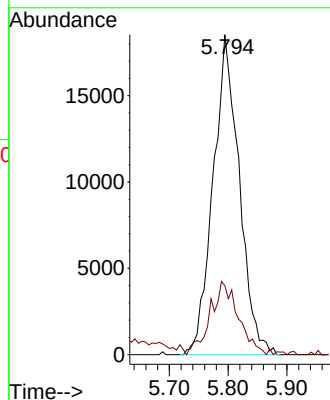
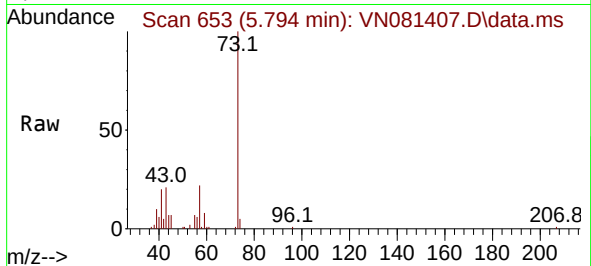
#19
Methyl tert-butyl Ether
Concen: 4.382 ug/l
RT: 5.794 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

Instrument :
MSVOA_N
ClientSampleId :
240313044-02-VOA

Tgt Ion: 73 Resp: 5728
Ion Ratio Lower Upper
73 100
57 20.7 18.2 27.4

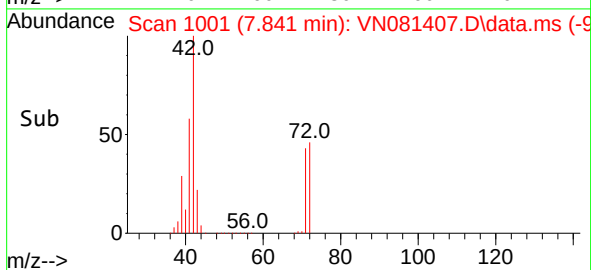
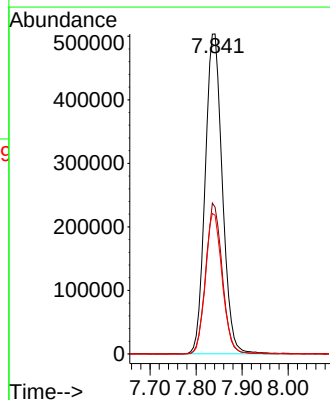
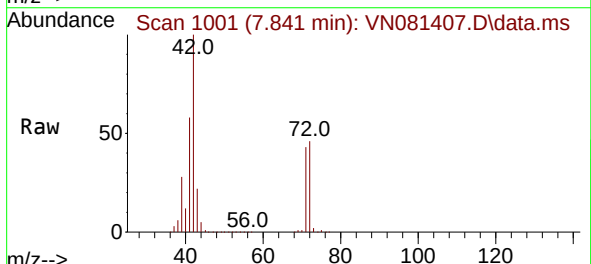
Manual Integrations
APPROVED

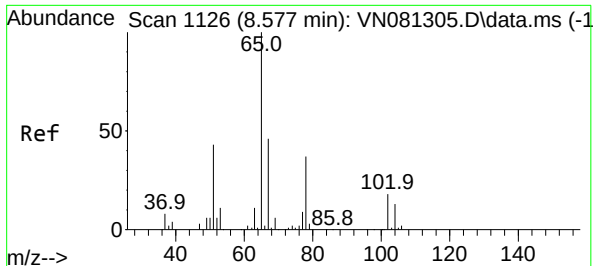
Reviewed By :John Carlone 03/15/2024
Supervised By :Mahesh Dadoda 03/15/2024



#29
Tetrahydrofuran
Concen: 675.566 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. -0.000 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

Tgt Ion: 42 Resp: 1307238
Ion Ratio Lower Upper
42 100
72 45.4 31.1 46.7
71 43.1 28.3 42.5#





#33

1,2-Dichloroethane-d4

Concen: 51.586 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN081407.D

Acq: 14 Mar 2024 14:05

Instrument :

MSVOA_N

ClientSampleId :

240313044-02-VOA

Tgt Ion: 65 Resp: 246710

Ion Ratio Lower Upper

65 100

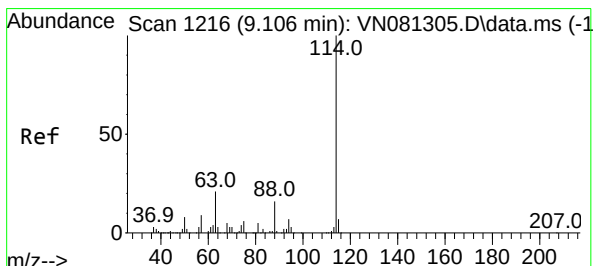
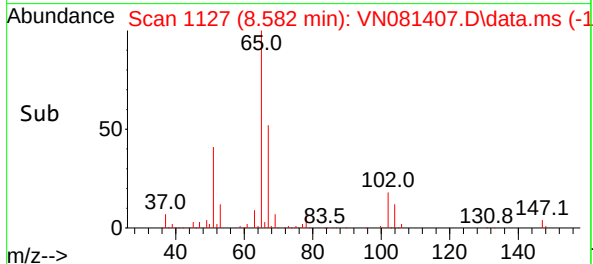
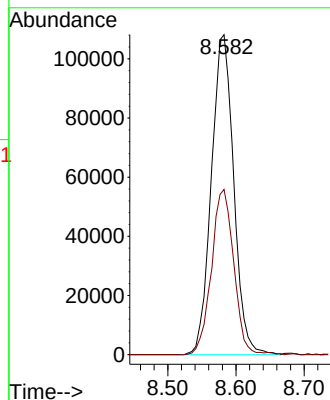
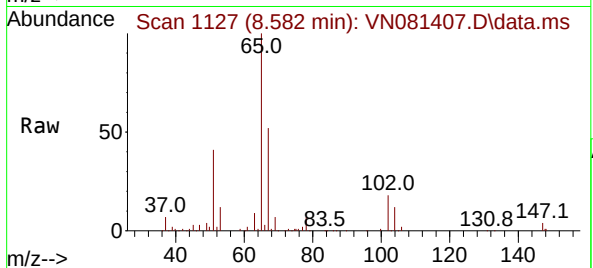
67 51.5 0.0 102.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/15/2024

Supervised By :Mahesh Dadoda 03/15/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN081407.D

Acq: 14 Mar 2024 14:05

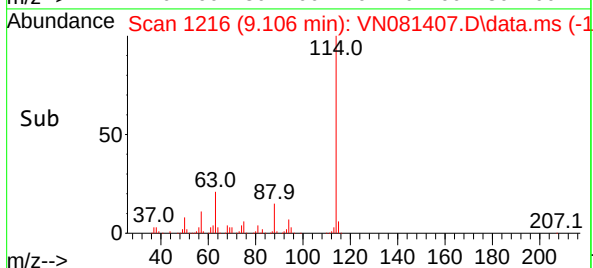
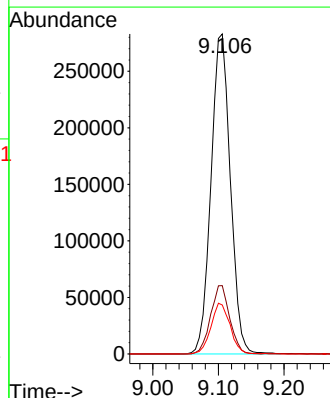
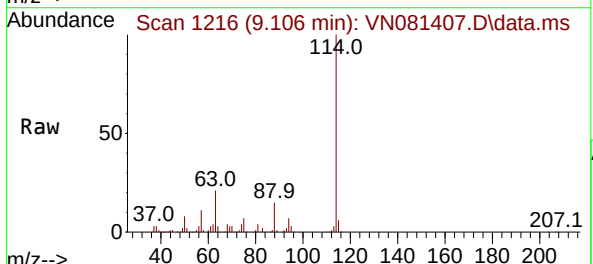
Tgt Ion:114 Resp: 580377

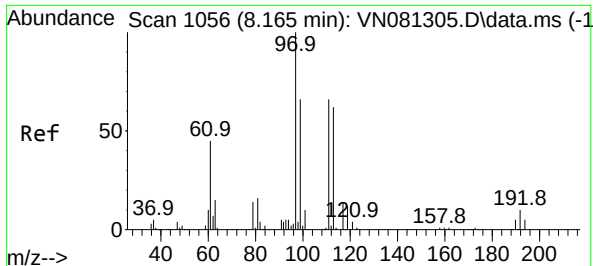
Ion Ratio Lower Upper

114 100

63 21.4 0.0 48.0

88 15.3 0.0 34.8





#35

Dibromofluoromethane

Concen: 51.653 ug/l

RT: 8.171 min Scan# 113

Delta R.T. 0.006 min

Lab File: VN081407.D

Acq: 14 Mar 2024 14:05

Instrument :

MSVOA_N

ClientSampleId :

240313044-02-VOA

Tgt Ion:113 Resp: 18366

Ion Ratio Lower Upper

113 100

111 101.5 82.2 123.4

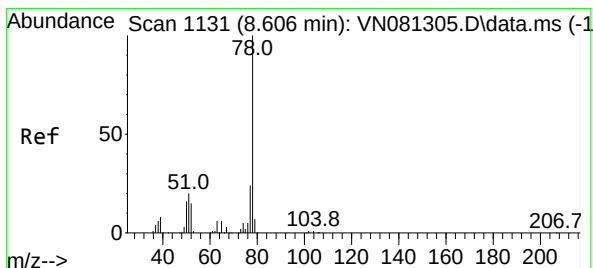
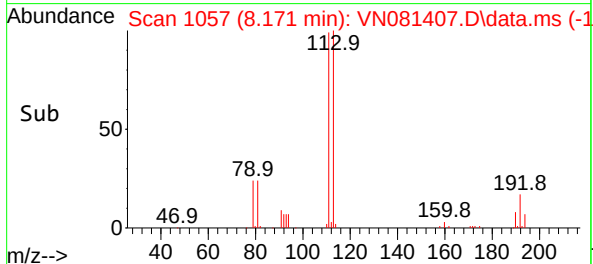
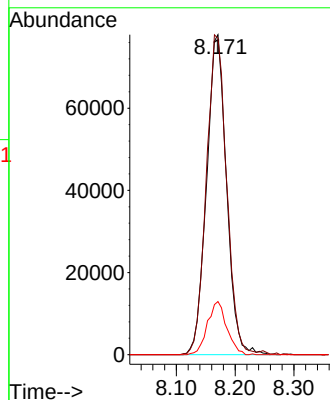
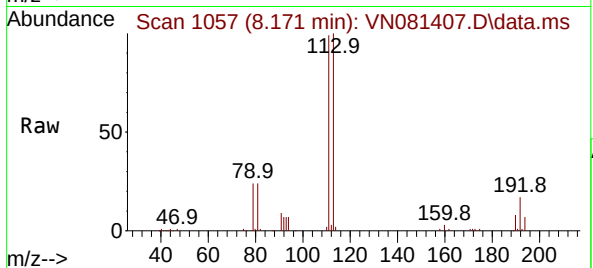
192 16.0 12.5 18.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/15/2024

Supervised By :Mahesh Dadoda 03/15/2024



#40

Benzene

Concen: 5.301 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN081407.D

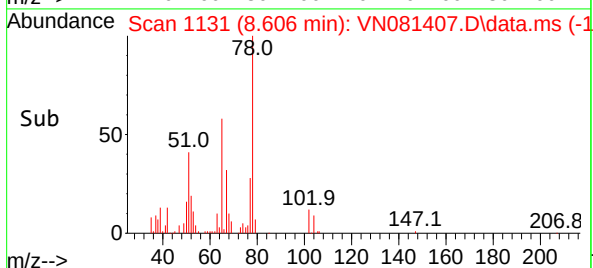
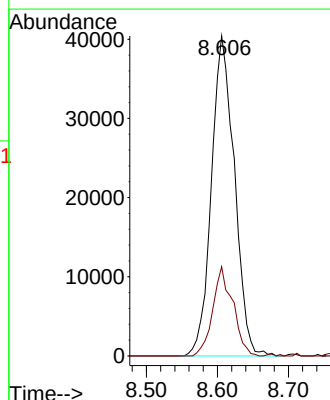
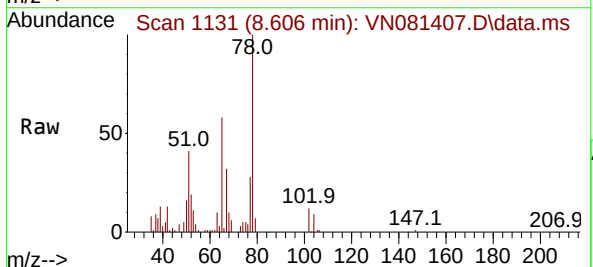
Acq: 14 Mar 2024 14:05

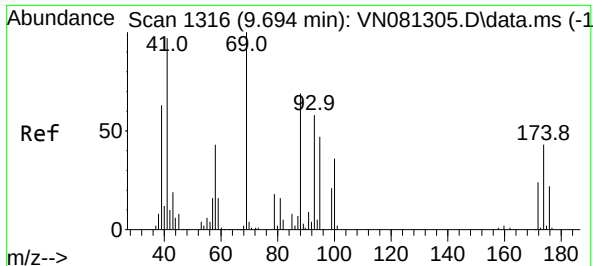
Tgt Ion: 78 Resp: 90774

Ion Ratio Lower Upper

78 100

77 27.9 20.4 30.6





#49

1,4-Dioxane

Concen: 85.250 ug/l

RT: 9.700 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN081407.D

Acq: 14 Mar 2024 14:05

Instrument :

MSVOA_N

ClientSampleId :

240313044-02-VOA

Tgt Ion: 88 Resp: 815

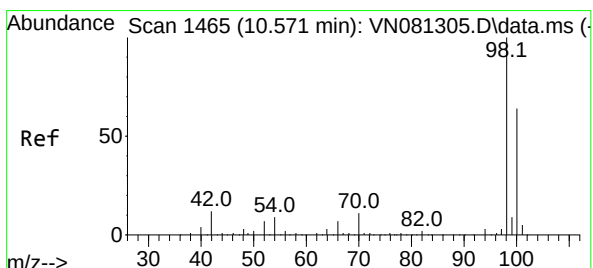
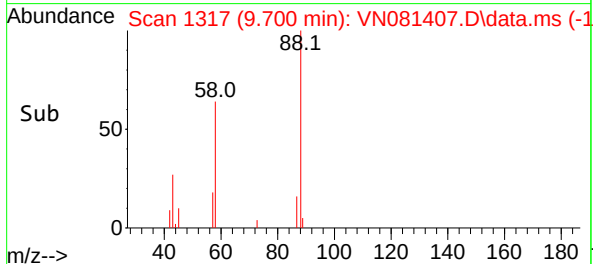
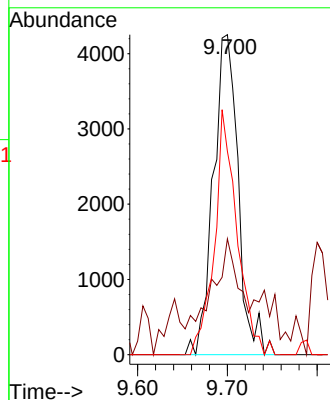
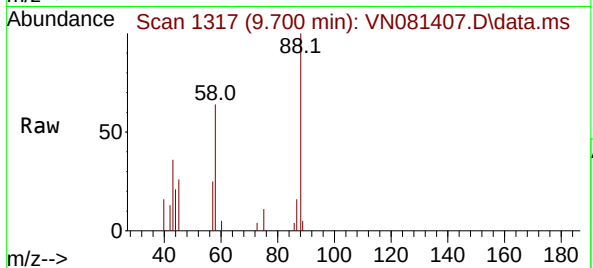
Ion	Ratio	Lower	Upper
88	100		
43	26.2	30.1	45.1
58	69.9	63.9	95.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/15/2024

Supervised By :Mahesh Dadoda 03/15/2024



#50

Toluene-d8

Concen: 52.724 ug/l

RT: 10.571 min Scan# 1465

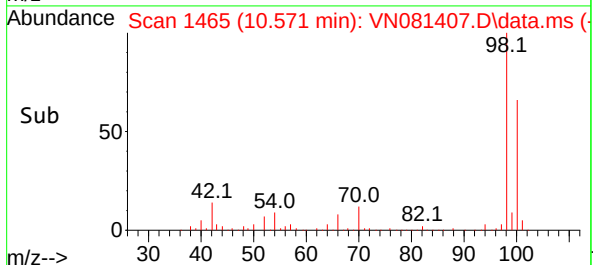
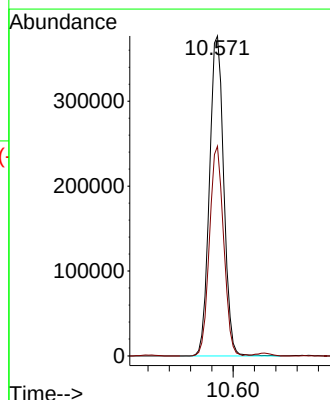
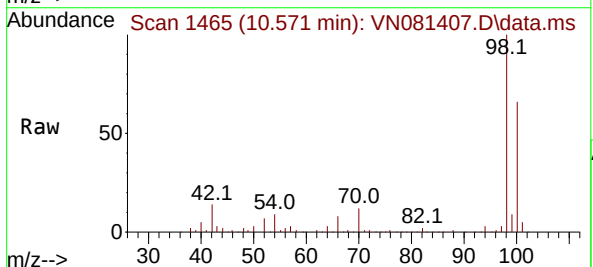
Delta R.T. -0.000 min

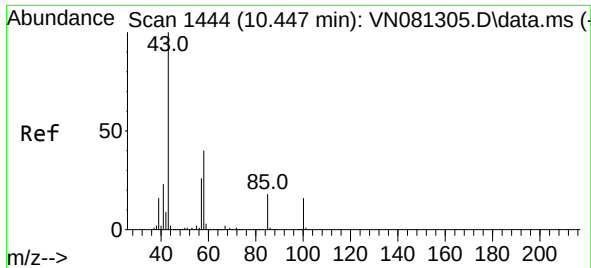
Lab File: VN081407.D

Acq: 14 Mar 2024 14:05

Tgt Ion: 98 Resp: 700823

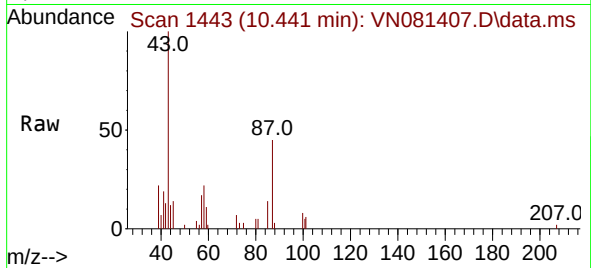
Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.4	77.0





#51
4-Methyl-2-Pentanone
Concen: 4.863 ug/l m
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

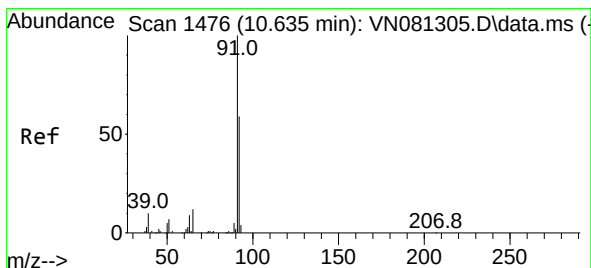
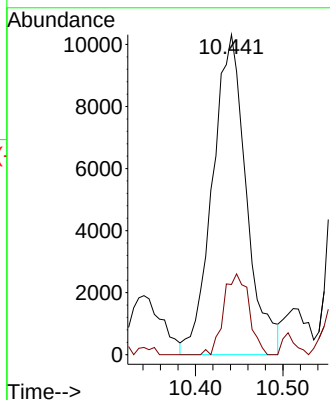
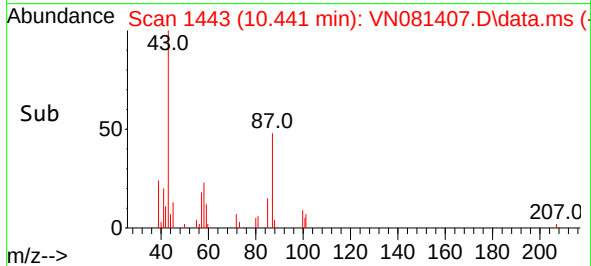
Instrument :
MSVOA_N
ClientSampleId :
240313044-02-VOA



Tgt Ion: 43 Resp: 27714
Ion Ratio Lower Upper
43 100
58 2.5 29.4 44.0

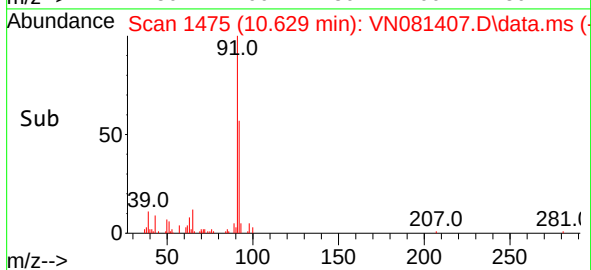
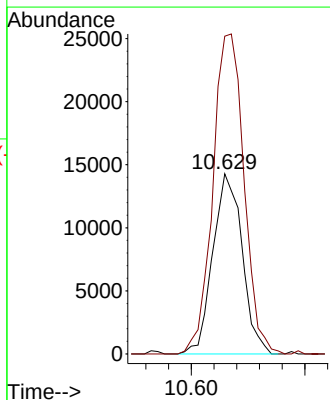
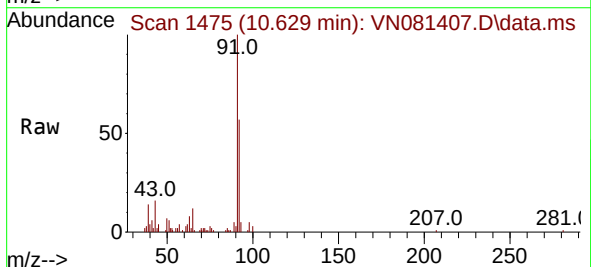
Manual Integrations
APPROVED

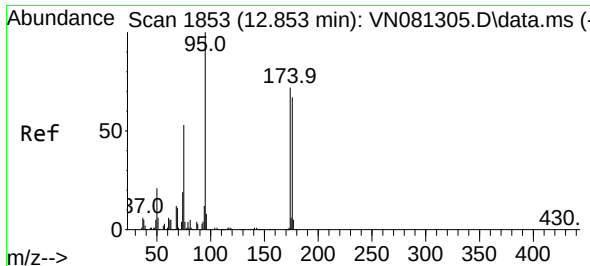
Reviewed By :John Carlone 03/15/2024
Supervised By :Mahesh Dadoda 03/15/2024



#52
Toluene
Concen: 2.477 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

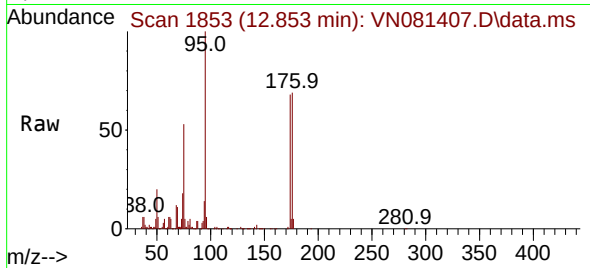
Tgt Ion: 92 Resp: 25625
Ion Ratio Lower Upper
92 100
91 188.4 139.4 209.0





#62
4-Bromofluorobenzene
Concen: 48.586 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

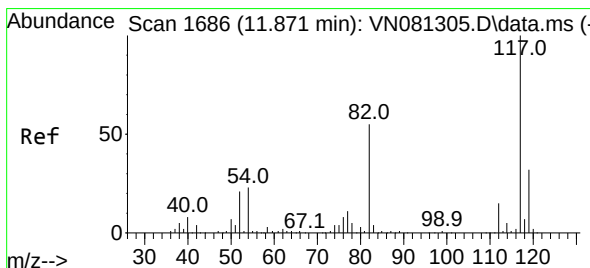
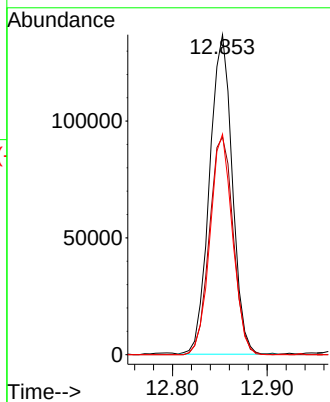
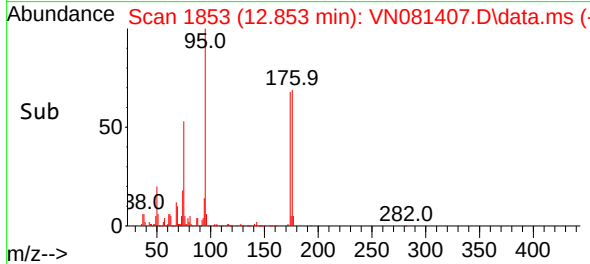
Instrument :
MSVOA_N
ClientSampleId :
240313044-02-VOA



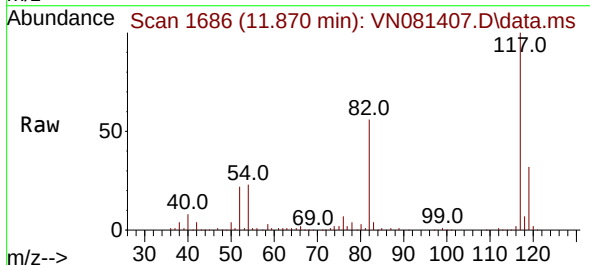
Tgt Ion: 95 Resp: 228259
Ion Ratio Lower Upper
95 100
174 71.6 0.0 120.4
176 68.3 0.0 121.0

Manual Integrations
APPROVED

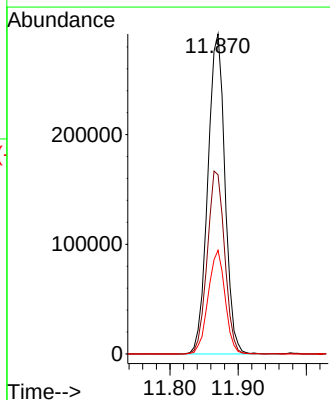
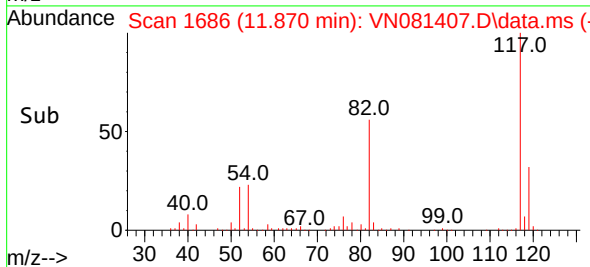
Reviewed By :John Carlone 03/15/2024
Supervised By :Mahesh Dadoda 03/15/2024

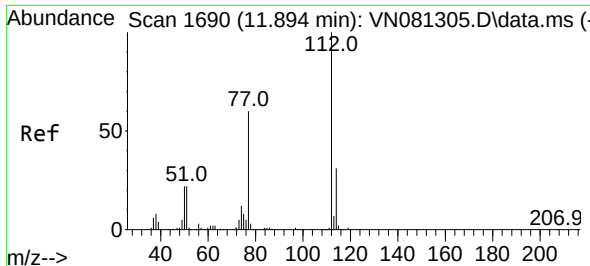


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05



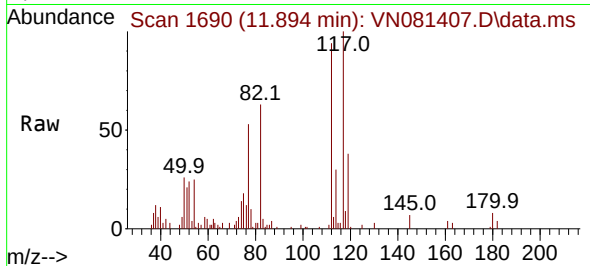
Tgt Ion:117 Resp: 510786
Ion Ratio Lower Upper
117 100
82 56.0 52.7 79.1
119 32.4 25.3 37.9





#65
Chlorobenzene
Concen: 3.313 ug/l
RT: 11.894 min Scan# 1189
Delta R.T. -0.000 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

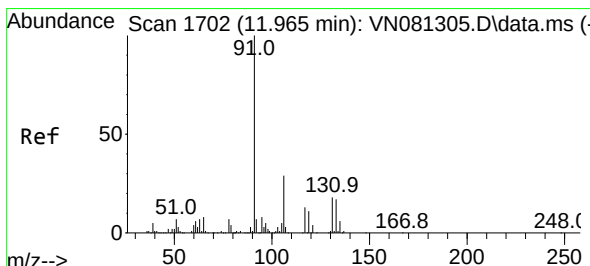
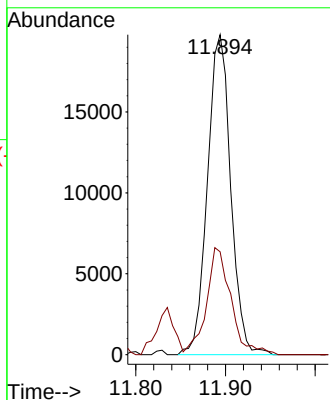
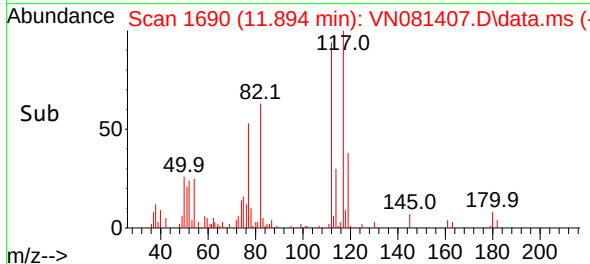
Instrument :
MSVOA_N
ClientSampleId :
240313044-02-VOA



Tgt Ion:112 Resp: 35662
Ion Ratio Lower Upper
112 100
114 32.2 23.7 35.5

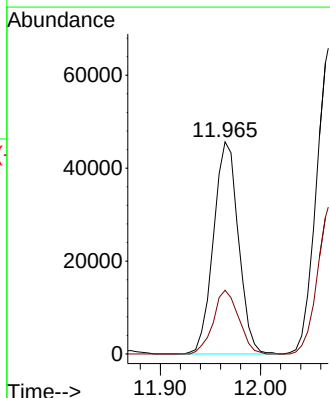
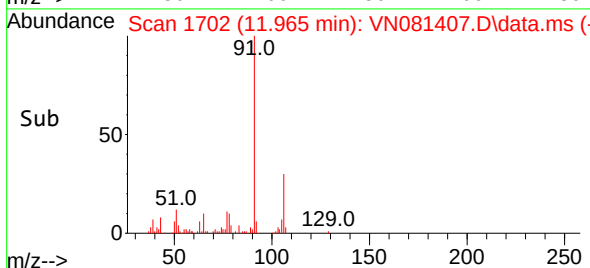
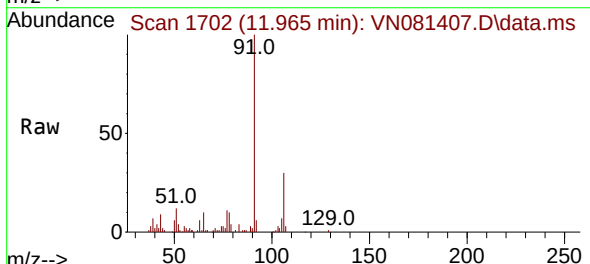
Manual Integrations
APPROVED

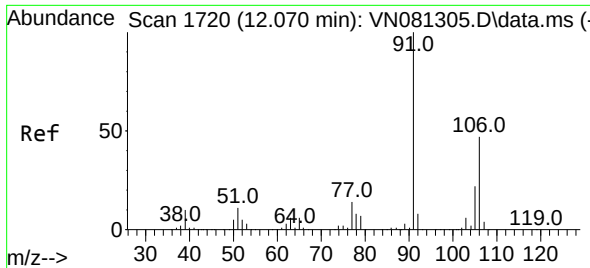
Reviewed By :John Carlone 03/15/2024
Supervised By :Mahesh Dadoda 03/15/2024



#67
Ethyl Benzene
Concen: 4.064 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

Tgt Ion: 91 Resp: 78797
Ion Ratio Lower Upper
91 100
106 30.0 23.8 35.6





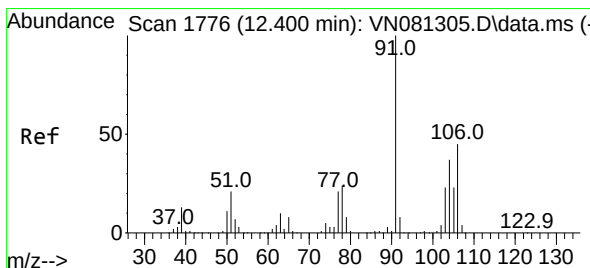
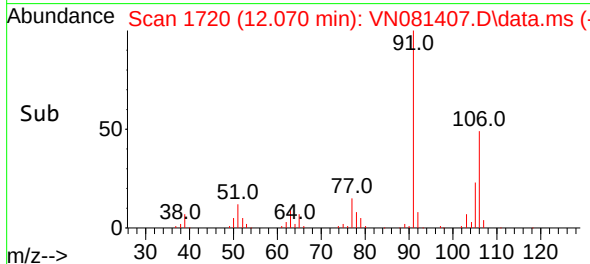
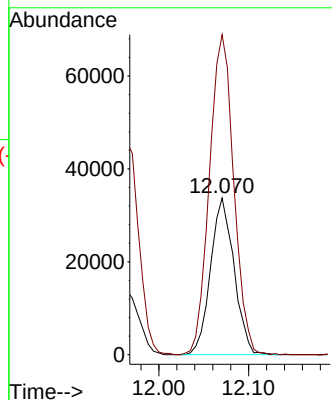
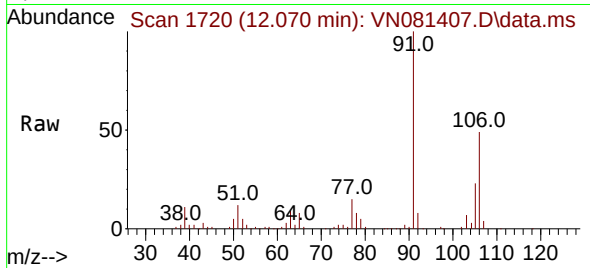
#68
m/p-Xylenes
Concen: 8.417 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

Instrument :
MSVOA_N
ClientSampleId :
240313044-02-VOA

Tgt Ion:106 Resp: 61420
Ion Ratio Lower Upper
106 100
91 211.5 169.0 253.6

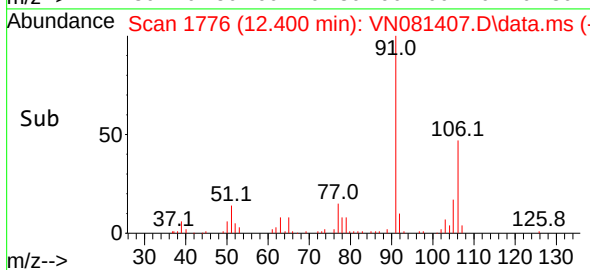
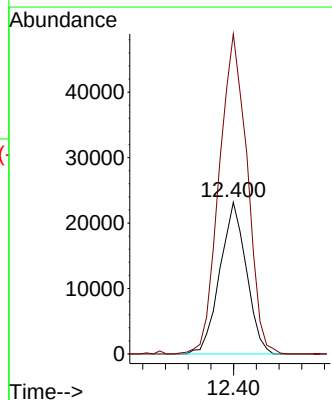
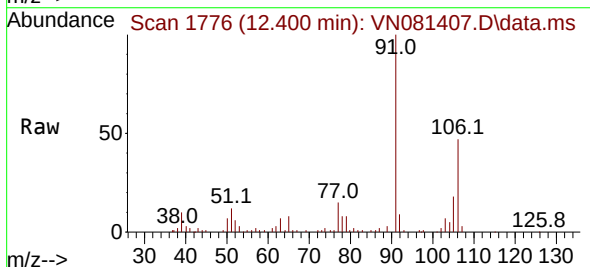
Manual Integrations
APPROVED

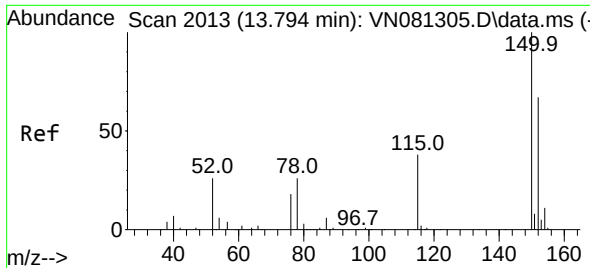
Reviewed By :John Carlone 03/15/2024
Supervised By :Mahesh Dadoda 03/15/2024



#69
o-Xylene
Concen: 5.298 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

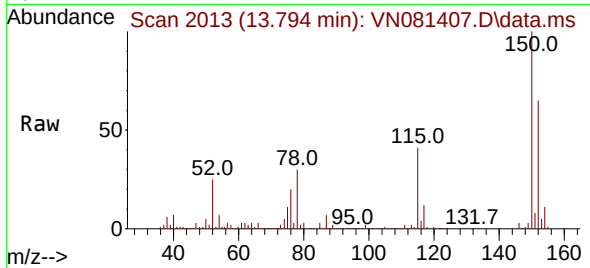
Tgt Ion:106 Resp: 37466
Ion Ratio Lower Upper
106 100
91 223.4 112.1 336.3





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

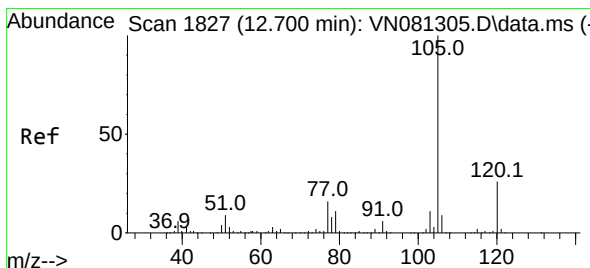
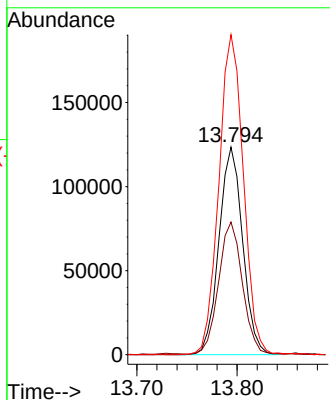
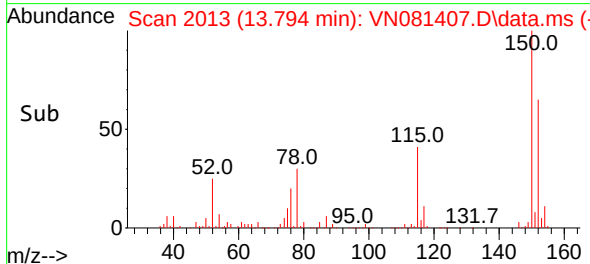
Instrument :
MSVOA_N
ClientSampleId :
240313044-02-VOA



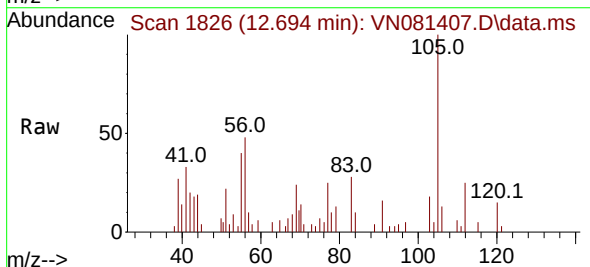
Tgt Ion:152 Resp: 202524
Ion Ratio Lower Upper
152 100
115 63.8 32.3 96.8
150 160.2 0.0 339.8

Manual Integrations
APPROVED

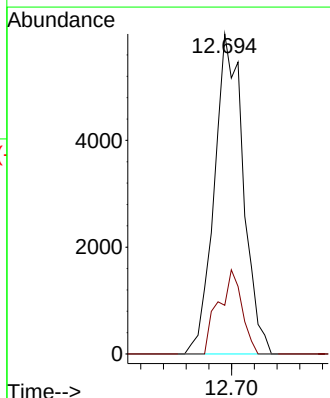
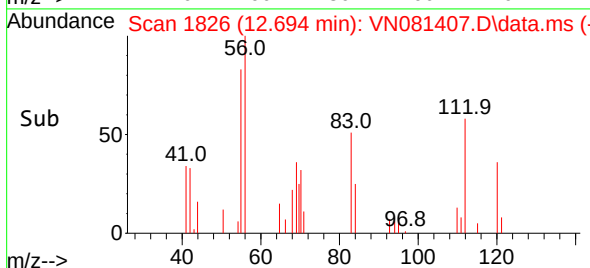
Reviewed By :John Carlone 03/15/2024
Supervised By :Mahesh Dadoda 03/15/2024

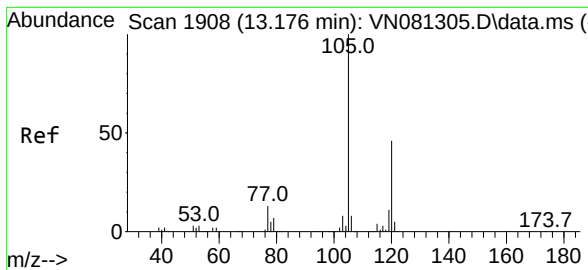


#73
Isopropylbenzene
Concen: 0.647 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.006 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05



Tgt Ion:105 Resp: 10584
Ion Ratio Lower Upper
105 100
120 21.2 12.6 37.6





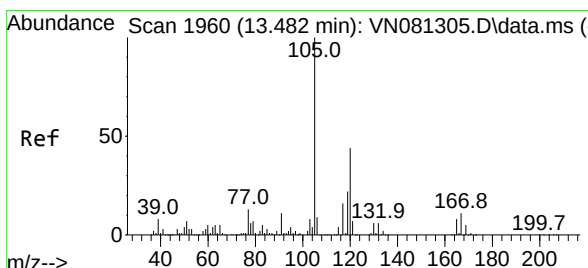
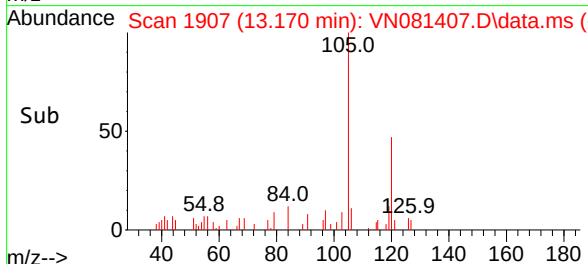
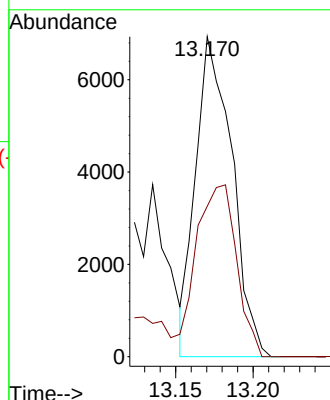
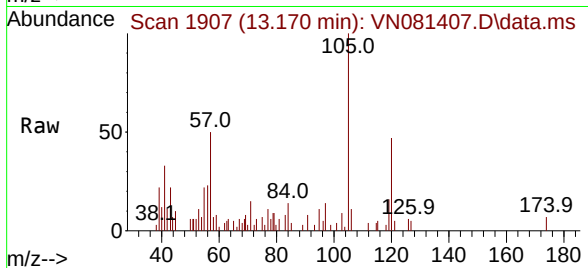
#80
1,3,5-Trimethylbenzene
Concen: 0.833 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

Instrument : MSVOA_N
ClientSampleId : 240313044-02-VOA

Tgt Ion:105 Resp: 11264
Ion Ratio Lower Upper
105 100
120 60.4 23.0 69.0

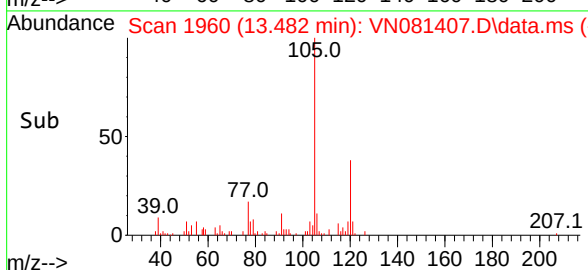
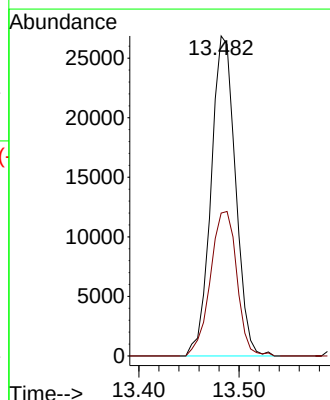
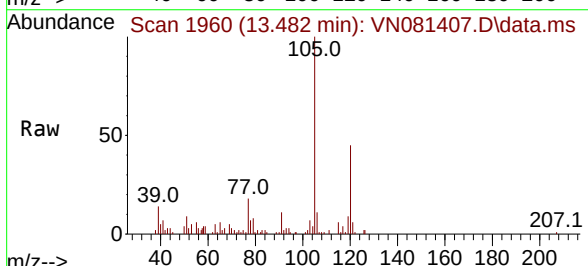
Manual Integrations
APPROVED

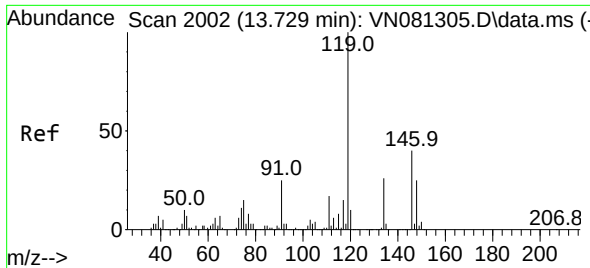
Reviewed By :John Carlone 03/15/2024
Supervised By :Mahesh Dadoda 03/15/2024



#84
1,2,4-Trimethylbenzene
Concen: 3.316 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

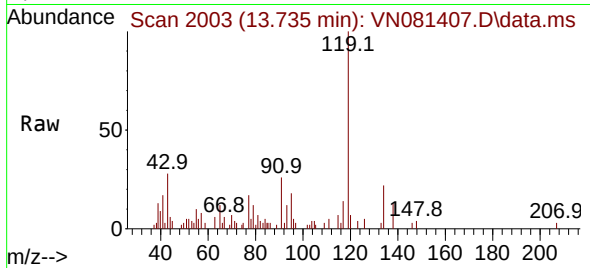
Tgt Ion:105 Resp: 45419
Ion Ratio Lower Upper
105 100
120 49.0 20.9 62.7





#86
p-Isopropyltoluene
Concen: 0.997 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.006 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

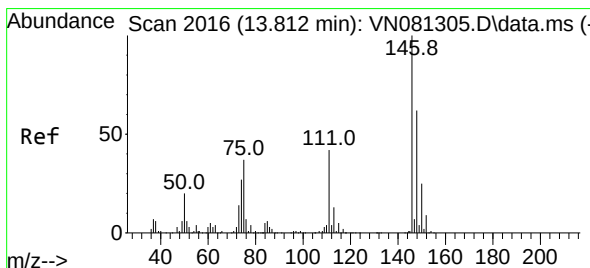
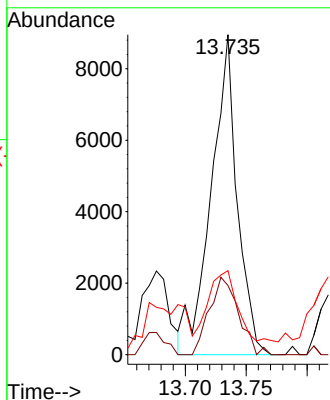
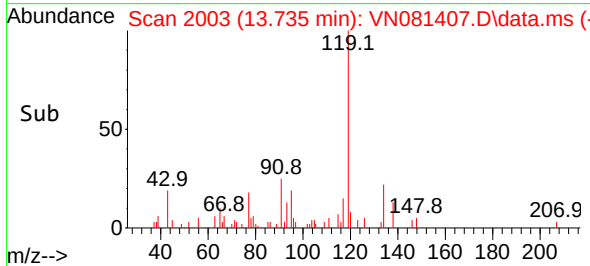
Instrument :
MSVOA_N
ClientSampleId :
240313044-02-VOA



Tgt Ion:119 Resp: 1340
Ion Ratio Lower Upper
119 100
134 26.9 12.4 37.2
91 23.0 13.5 40.4

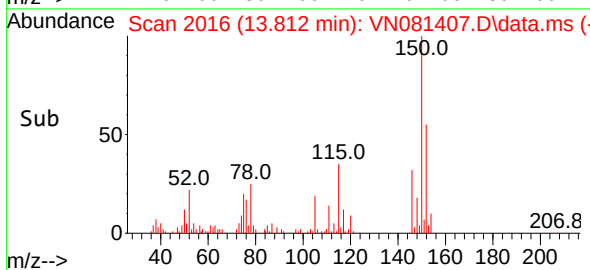
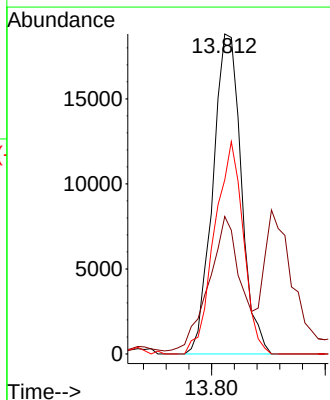
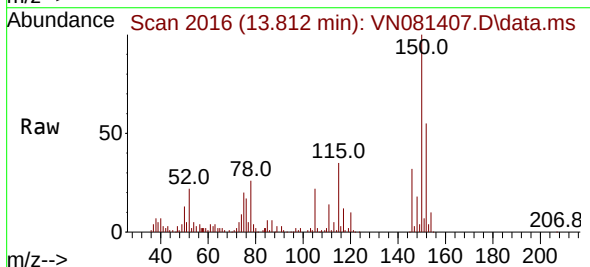
Manual Integrations
APPROVED

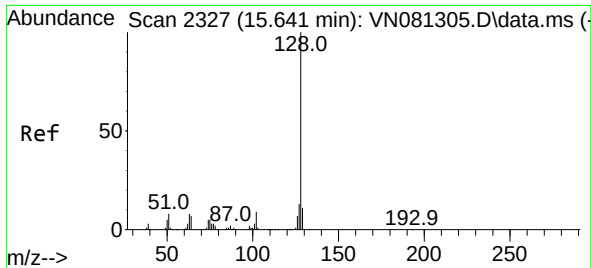
Reviewed By :John Carlone 03/15/2024
Supervised By :Mahesh Dadoda 03/15/2024



#88
1,4-Dichlorobenzene
Concen: 4.465 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

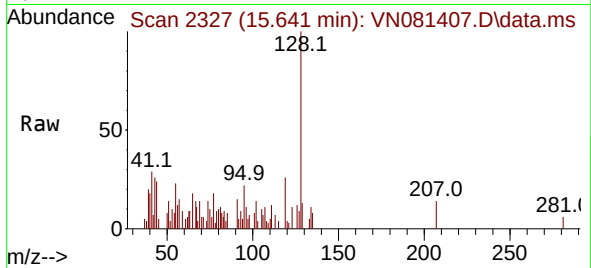
Tgt Ion:146 Resp: 32674
Ion Ratio Lower Upper
146 100
111 48.8 22.6 67.7
148 67.2 31.9 95.5





#95
Naphthalene
Concen: 0.588 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN081407.D
Acq: 14 Mar 2024 14:05

Instrument :
MSVOA_N
ClientSampleId :
240313044-02-VOA



Tgt Ion:128 Resp: 7860
Ion Ratio Lower Upper
128 100
127 16.8 10.0 15.0
129 10.9 8.7 13.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/15/2024
Supervised By :Mahesh Dadoda 03/15/2024

