

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091324\
 Data File : VN083874.D
 Acq On : 13 Sep 2024 16:55
 Operator : JC\MD
 Sample : P3966-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VOA-240911078-02

Quant Time: Sep 13 23:53:53 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:42:47 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 09/14/2024
 Supervised By :Semsettin Yesilyurt 09/16/2024

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

Internal Standards						
1) Bromochloromethane	7.812	128	25954	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	143157	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	132659	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	72643	30.620	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.067%			
60) 4-Bromofluorobenzene	12.847	95	64824	28.353	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.500%			
63) Toluene-d8	10.565	98	177713	28.931	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.433%			
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.959	74	3280m	3.101	ug/l	
15) Acetone	4.424	58	52495	201.012	ug/l #	54
16) Carbon Disulfide	4.712	76	7799	1.711	ug/l	98
23) tert-Butyl Alcohol	5.518	59	2062780	7140.266	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	25039	4.368	ug/l #	75
30) 2-Butanone	7.482	43	592926	553.947	ug/l #	90
34) Benzene	8.606	78	34254	5.028	ug/l #	84
45) 1,4-Dioxane	9.694	88	3389	116.607	ug/l #	90
58) 4-Methyl-2-Pentanone	10.435	43	10561	5.021	ug/l #	50
62) Toluene	10.629	91	42212	5.536	ug/l	95
64) Chlorobenzene	11.894	112	13806	2.924	ug/l	100
66) Ethyl Benzene	11.965	91	77701	8.961	ug/l	99
67) m/p-Xylenes	12.070	106	28018	8.783	ug/l	97
68) o-Xylene	12.394	106	15734	5.096	ug/l	98
70) Isopropylbenzene	12.694	105	9792	1.202	ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	4703	0.691	ug/l	92
80) 1,2,4-Trimethylbenzene	13.482	105	20584	2.993	ug/l	98
82) p-Isopropyltoluene	13.729	119	42777	6.253	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	9961	2.766	ug/l	97
91) Naphthalene	15.641	128	155137	24.778	ug/l	99

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

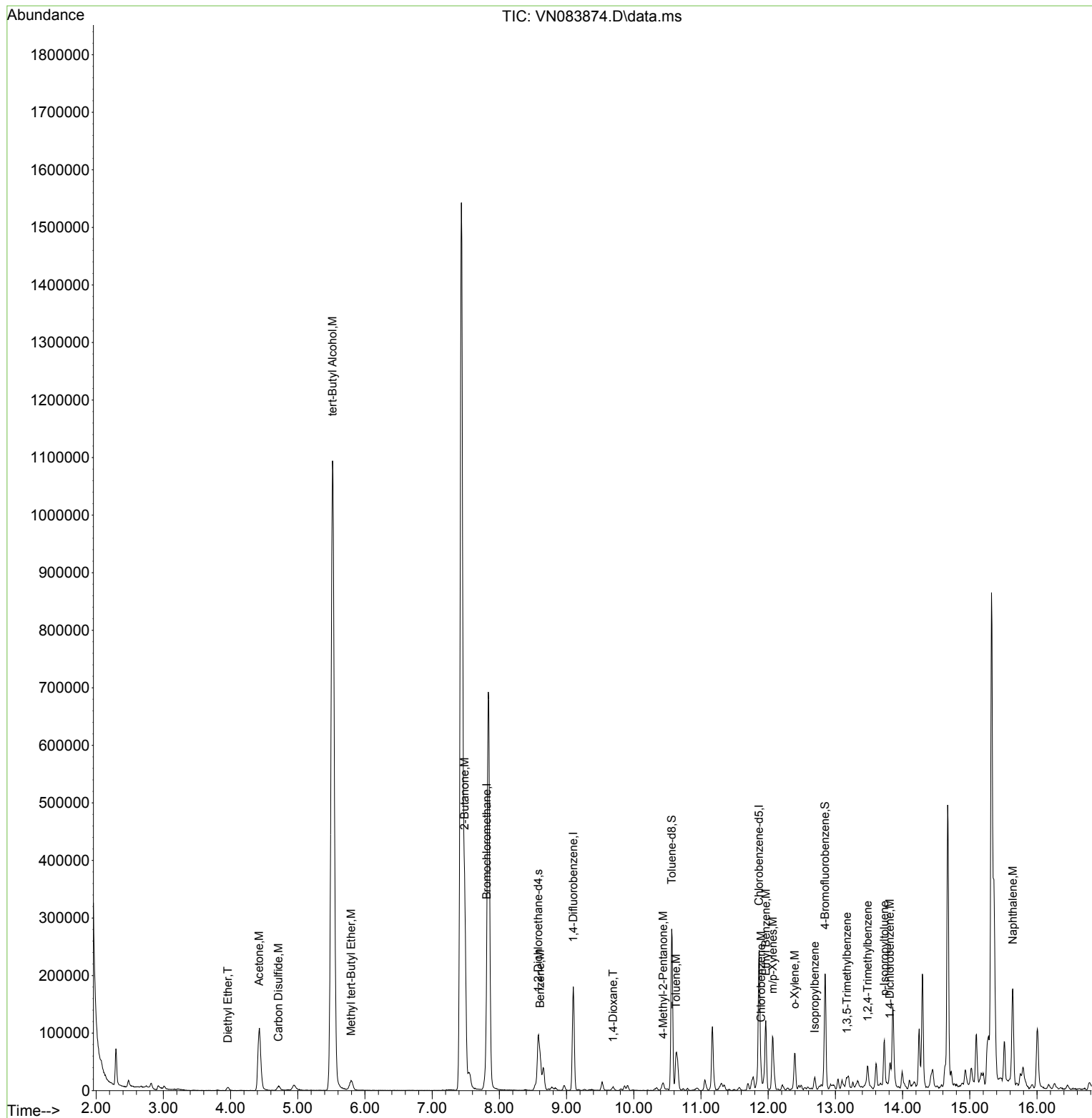
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091324\
Data File : VN083874.D
Acq On : 13 Sep 2024 16:55
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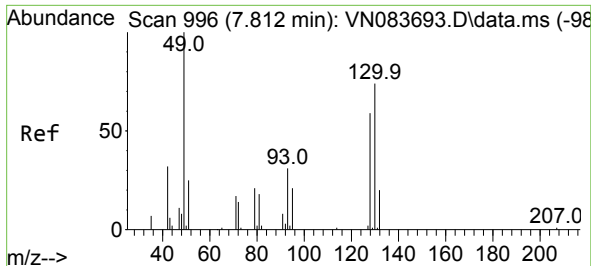
Instrument :
MSVOA_N
ClientSampleId :
VOA-240911078-02

Quant Time: Sep 13 23:53:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 06 23:42:47 2024
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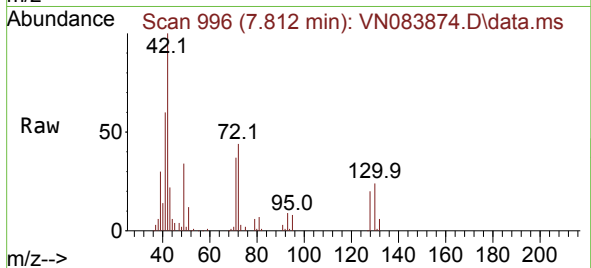
Reviewed By :John Carlone 09/14/2024
Supervised By :Semsettin Yesilyurt 09/16/2024





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

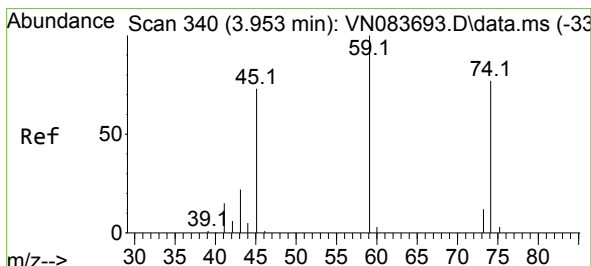
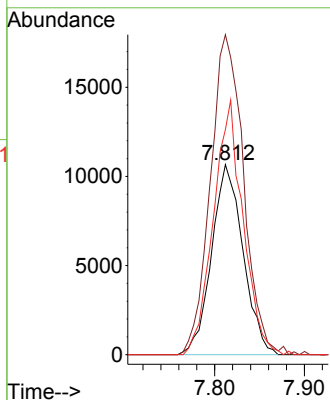
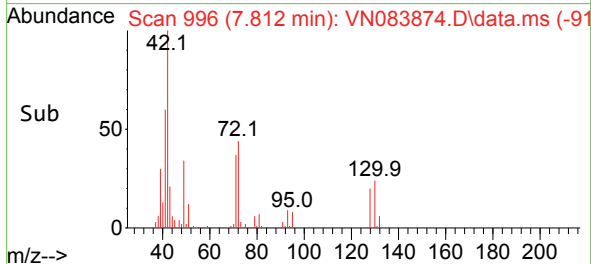
Instrument :
MSVOA_N
ClientSampleId :
VOA-240911078-02



Tgt Ion:128 Resp: 25954
Ion Ratio Lower Upper
128 100
49 177.0 0.0 403.7
130 126.2 0.0 323.3

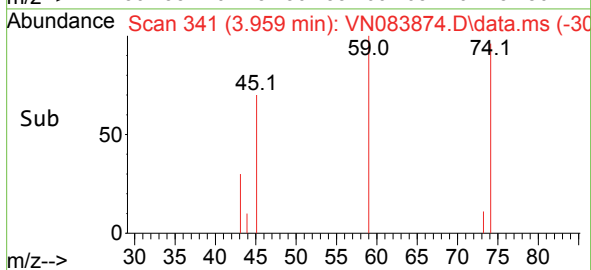
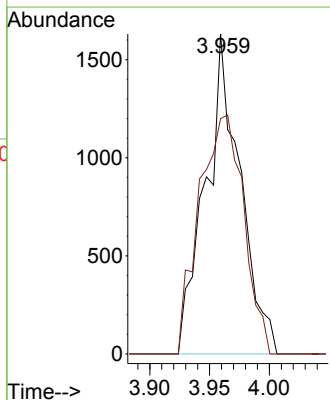
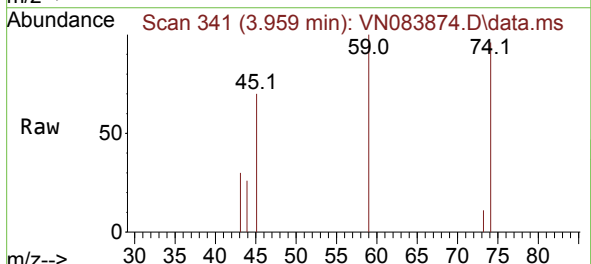
Manual Integrations
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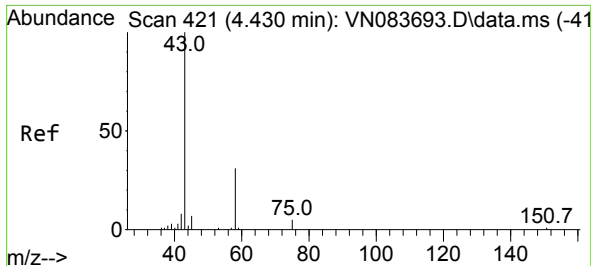
Reviewed By :John Carlone 09/14/2024
Supervised By :Semsettin Yesilyurt 09/16/2024



#8
Diethyl Ether
Concen: 3.101 ug/l m
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

Tgt Ion: 74 Resp: 3280
Ion Ratio Lower Upper
74 100
45 95.9 16.4 147.4





#15

Acetone

Concen: 201.012 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN083874.D

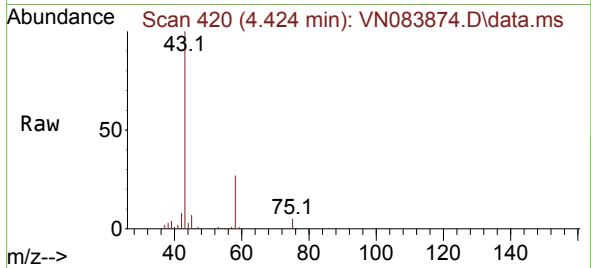
Acq: 13 Sep 2024 16:55

Instrument :

MSVOA_N

ClientSampleId :

VOA-240911078-02



Tgt Ion: 58 Resp: 5249

Ion Ratio Lower Upper

58 100

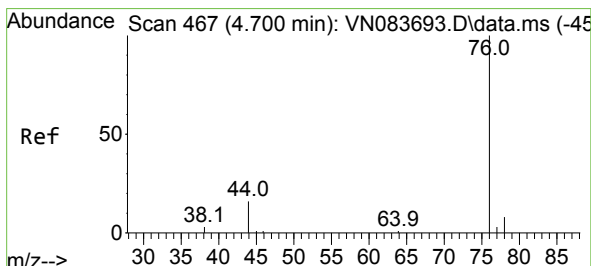
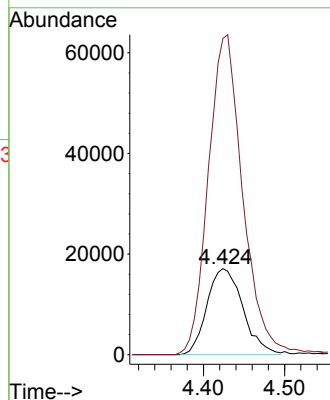
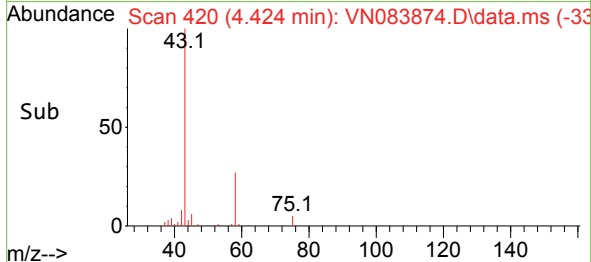
43 365.1 223.1 334.7

Manual Integrations

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#16

Carbon Disulfide

Concen: 1.711 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.012 min

Lab File: VN083874.D

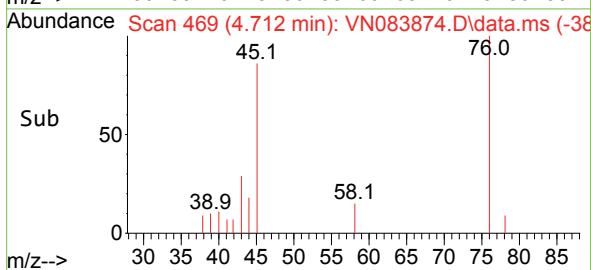
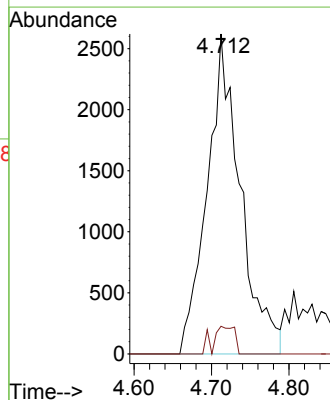
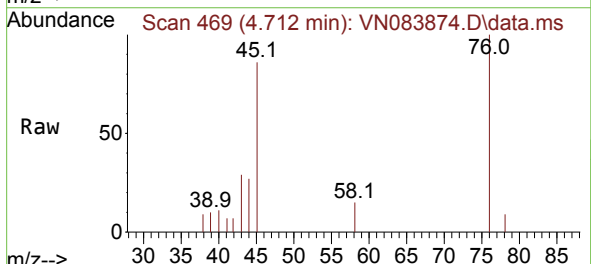
Acq: 13 Sep 2024 16:55

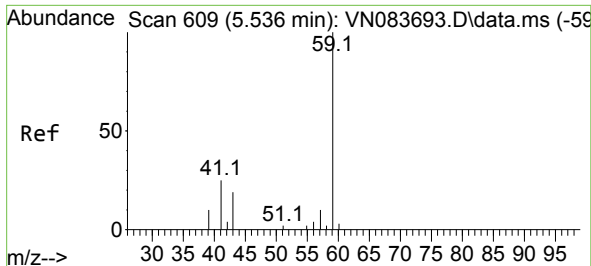
Tgt Ion: 76 Resp: 7799

Ion Ratio Lower Upper

76 100

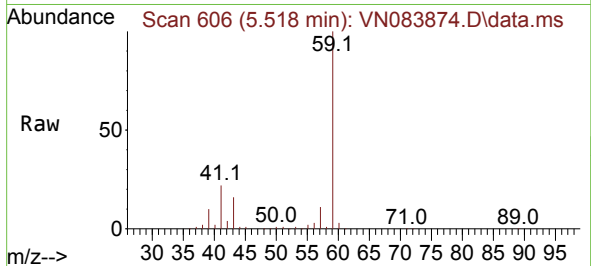
78 8.6 6.3 9.5





#23
tert-Butyl Alcohol
Concen: 7140.266 ug/l
RT: 5.518 min Scan# 609
Delta R.T. -0.018 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

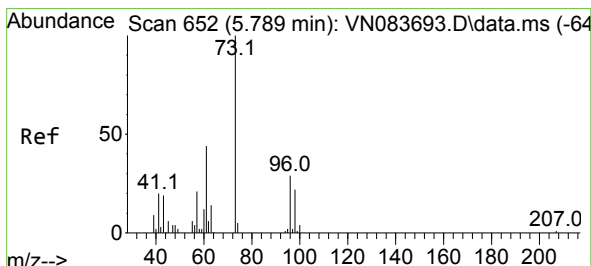
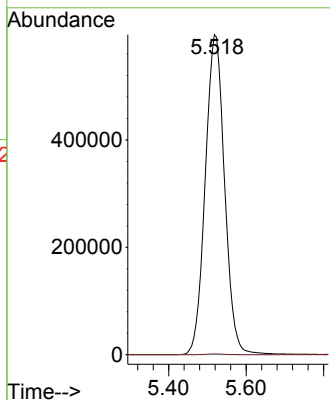
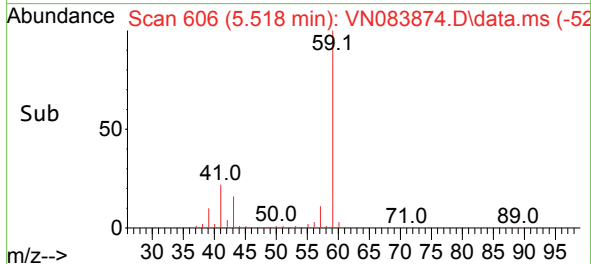
Instrument :
MSVOA_N
ClientSampleId :
VOA-240911078-02



Tgt Ion: 59 Resp: 2062780
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0

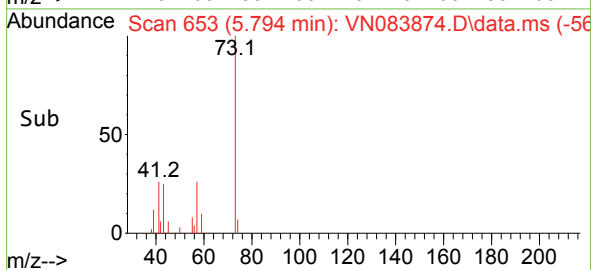
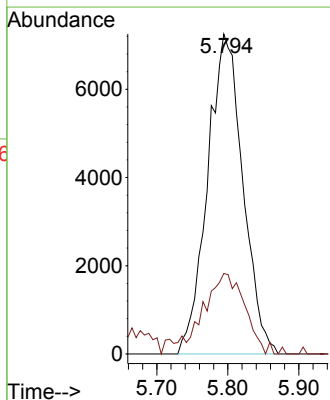
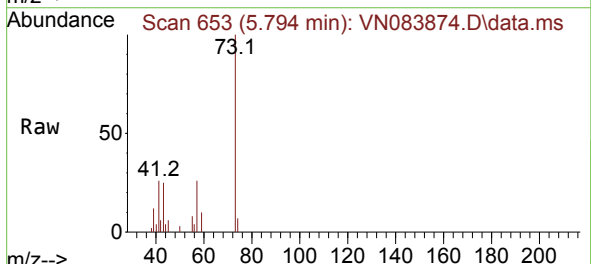
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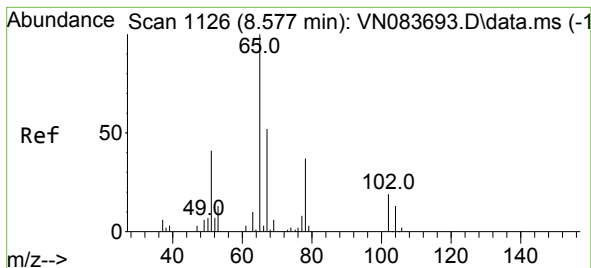
Reviewed By :John Carlone 09/14/2024
Supervised By :Semsettin Yesilyurt 09/16/2024



#24
Methyl tert-Butyl Ether
Concen: 4.368 ug/l
RT: 5.794 min Scan# 653
Delta R.T. 0.006 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

Tgt Ion: 73 Resp: 25039
Ion Ratio Lower Upper
73 100
43 27.8 13.4 20.2





#27

1,2-Dichloroethane-d4

Concen: 30.620 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN083874.D

Acq: 13 Sep 2024 16:55

Instrument :

MSVOA_N

ClientSampleId :

VOA-240911078-02

Tgt Ion: 65 Resp: 7264

Ion Ratio Lower Upper

65 100

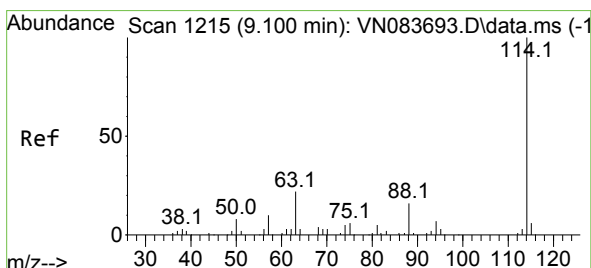
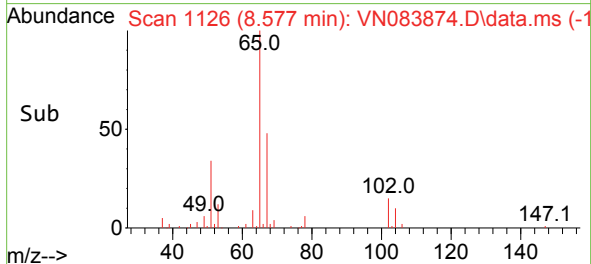
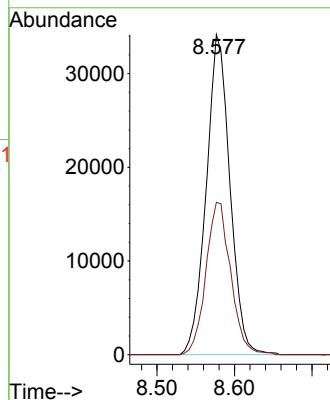
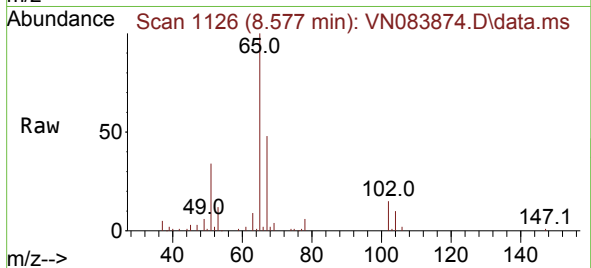
67 49.7 43.2 64.8

Manual Integrations

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Supervised By :Semsettin Yesilyurt 09/16/2024



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN083874.D

Acq: 13 Sep 2024 16:55

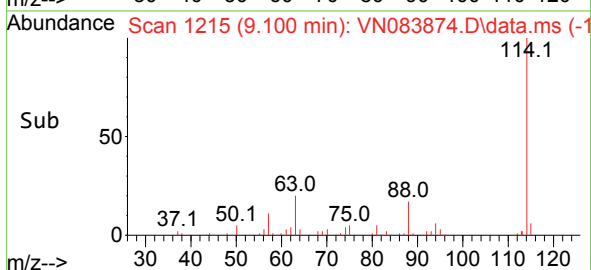
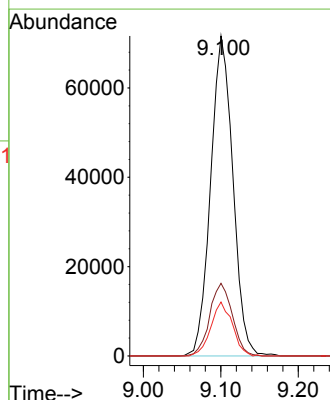
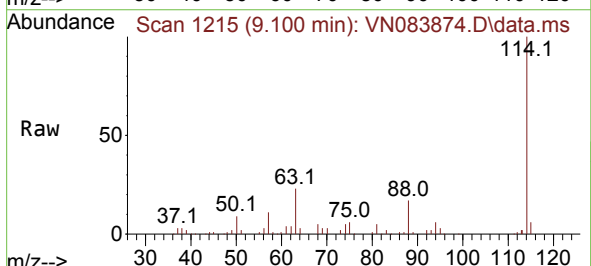
Tgt Ion:114 Resp: 143157

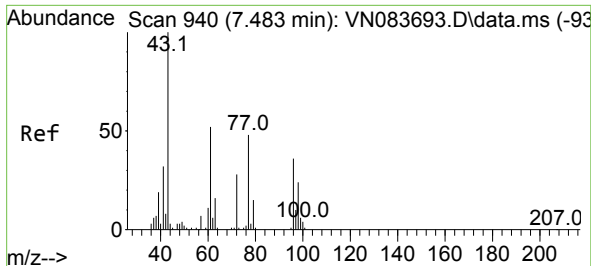
Ion Ratio Lower Upper

114 100

63 23.1 15.9 23.9

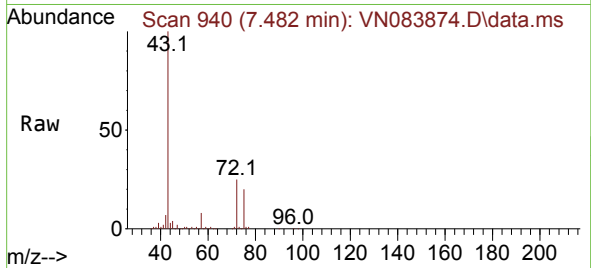
88 16.2 12.7 19.1





#30
2-Butanone
Concen: 553.947 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

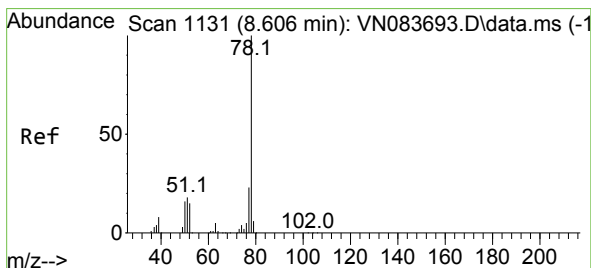
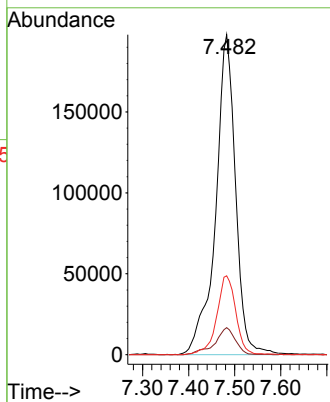
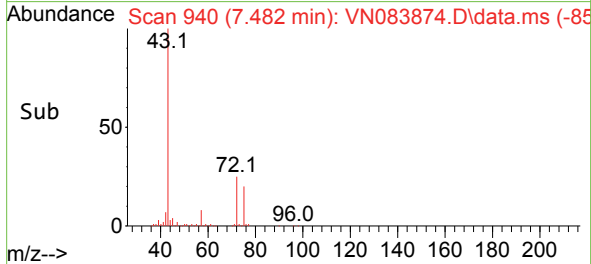
Instrument :
MSVOA_N
ClientSampleId :
VOA-240911078-02



Tgt Ion: 43 Resp: 592920
Ion Ratio Lower Upper
43 100
57 7.4 6.7 10.1
72 23.5 24.0 36.0

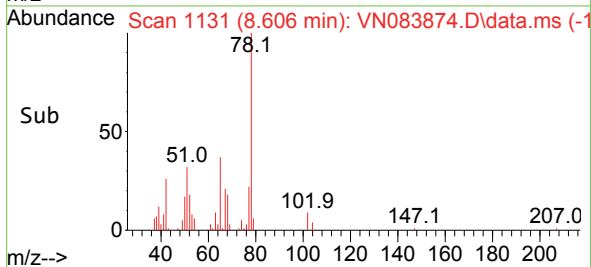
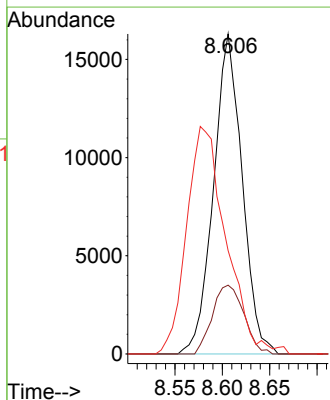
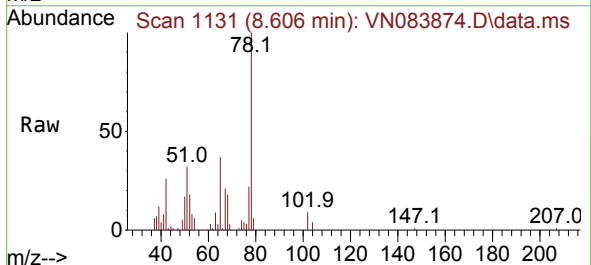
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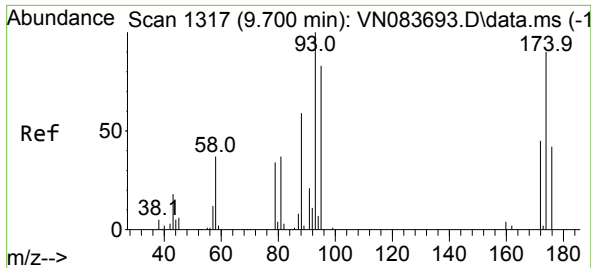
Reviewed By :John Carlone 09/14/2024
Supervised By :Semsettin Yesilyurt 09/16/2024



#34
Benzene
Concen: 5.028 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

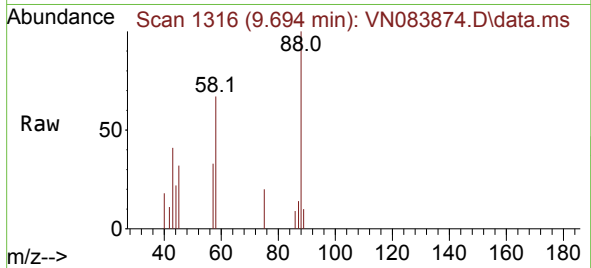
Tgt Ion: 78 Resp: 34254
Ion Ratio Lower Upper
78 100
77 21.5 19.2 28.8
51 30.2 13.3 19.9





#45
1,4-Dioxane
Concen: 116.607 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

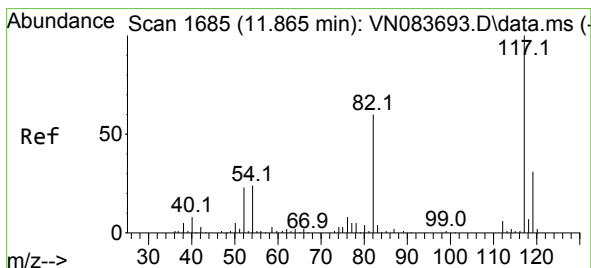
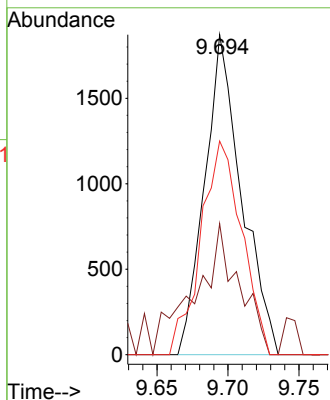
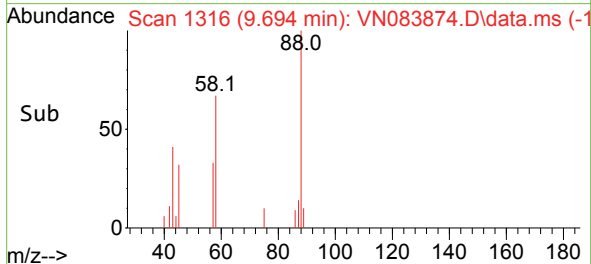
Instrument :
MSVOA_N
ClientSampleId :
VOA-240911078-02



Tgt Ion: 88 Resp: 3389
Ion Ratio Lower Upper
88 100
43 34.7 19.8 29.6
58 74.1 55.4 83.0

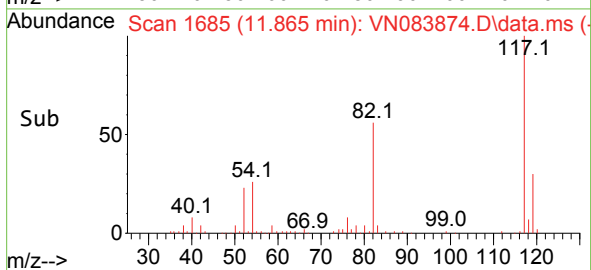
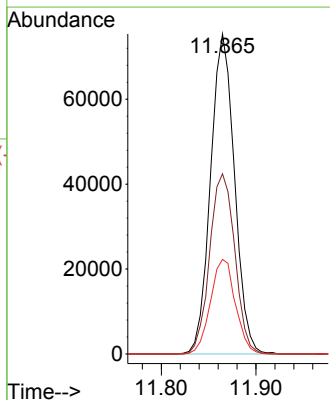
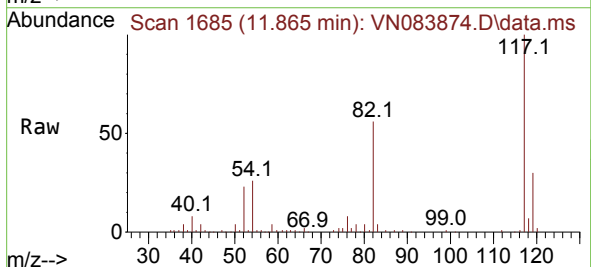
Manual Integrations
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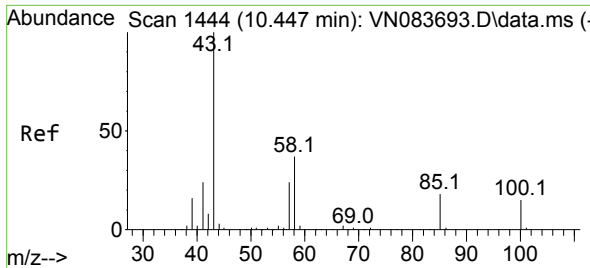
Reviewed By :John Carlone 09/14/2024
Supervised By :Semsettin Yesilyurt 09/16/2024



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

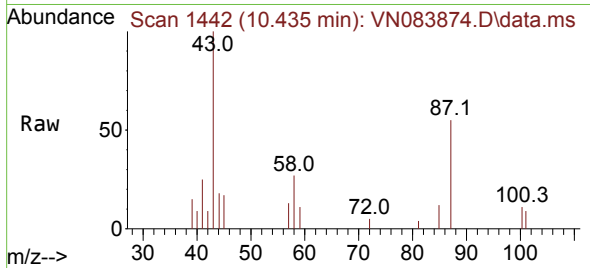
Tgt Ion:117 Resp: 132659
Ion Ratio Lower Upper
117 100
82 59.1 46.6 69.8
119 30.7 25.4 38.2





#58
4-Methyl-2-Pentanone
Concen: 5.021 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. -0.012 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

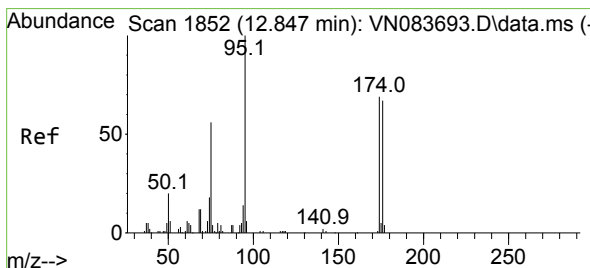
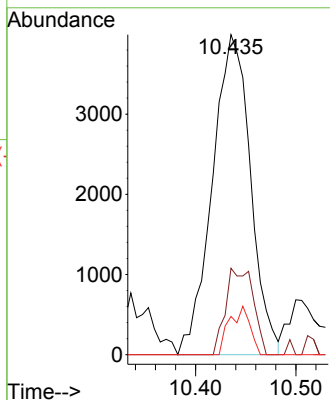
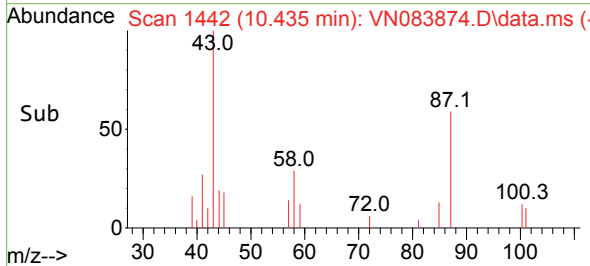
Instrument : MSVOA_N
ClientSampleId : VOA-240911078-02



Tgt Ion: 43 Resp: 1056
Ion Ratio Lower Upper
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58 9.6 36.5 54.7
85 4.1 19.5 29.3

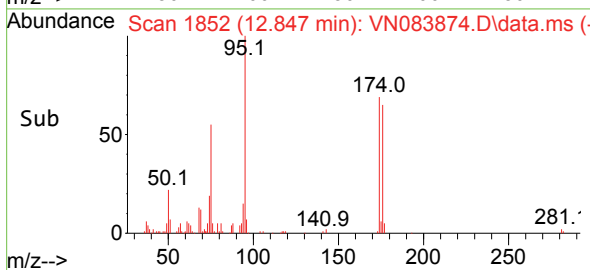
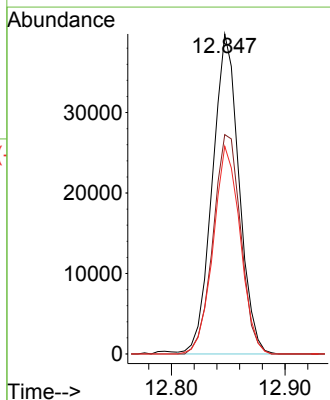
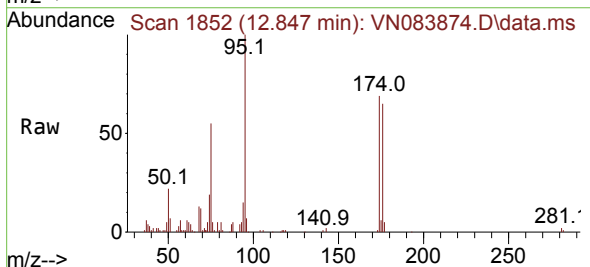
Manual Integrations
APPROVED

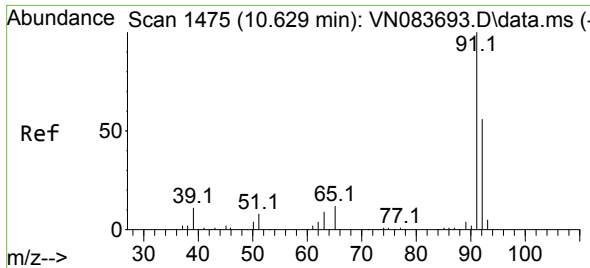
Reviewed By :John Carlone 09/14/2024
Supervised By :Semsettin Yesilyurt 09/16/2024



#60
4-Bromofluorobenzene
Concen: 28.353 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

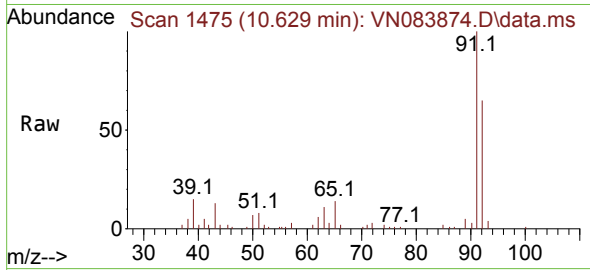
Tgt Ion: 95 Resp: 64824
Ion Ratio Lower Upper
95 100
174 71.1 60.5 90.7
176 65.9 57.8 86.6





#62
Toluene
Concen: 5.536 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

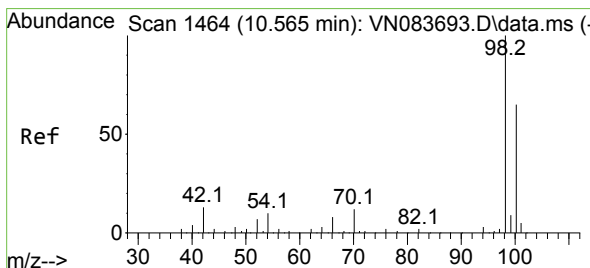
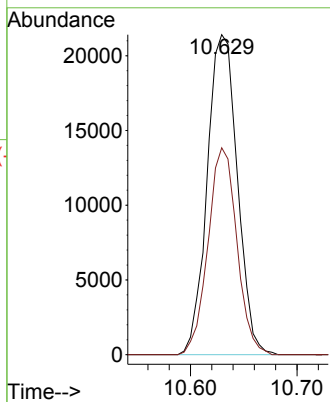
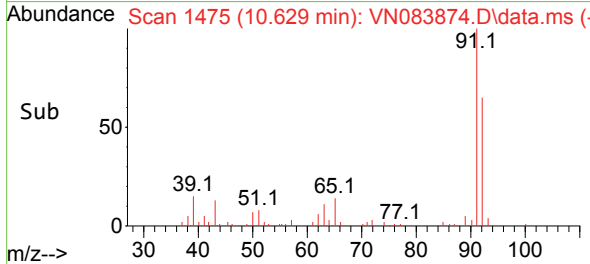
Instrument : MSVOA_N
ClientSampleId : VOA-240911078-02



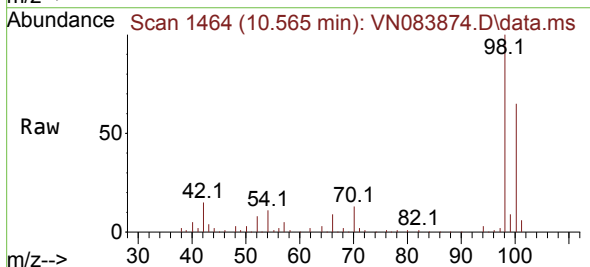
Tgt Ion: 91 Resp: 42212
Ion Ratio Lower Upper
91 100
92 61.8 46.5 69.7

Manual Integrations
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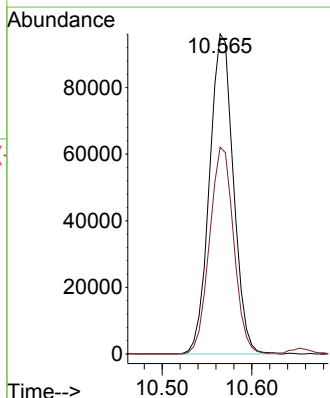
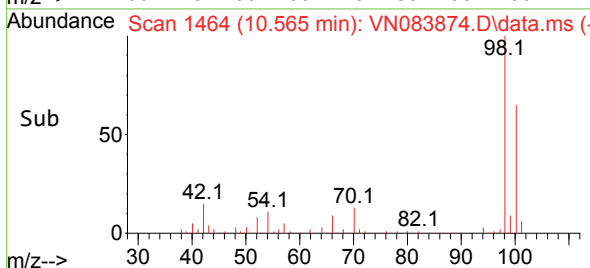
Reviewed By :John Carlone 09/14/2024
Supervised By :Semsettin Yesilyurt 09/16/2024

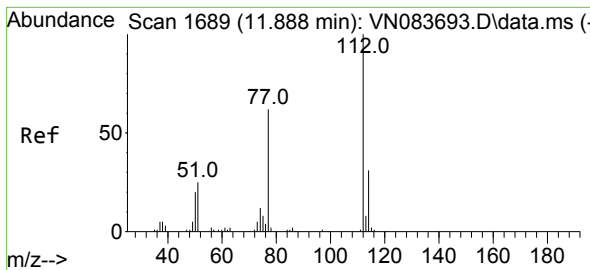


#63
Toluene-d8
Concen: 28.931 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55



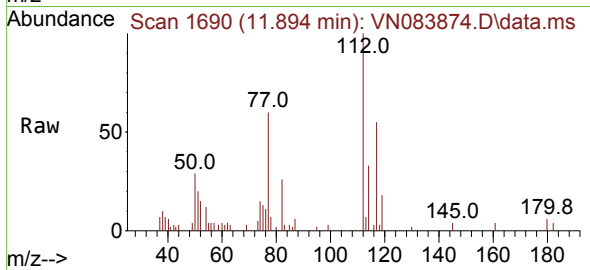
Tgt Ion: 98 Resp: 177713
Ion Ratio Lower Upper
98 100
100 65.2 52.7 79.1





#64
Chlorobenzene
Concen: 2.924 ug/l
RT: 11.894 min Scan# 11894
Delta R.T. 0.006 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

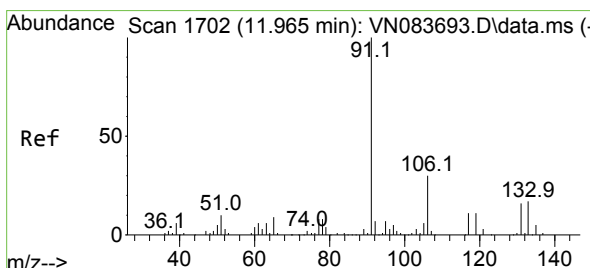
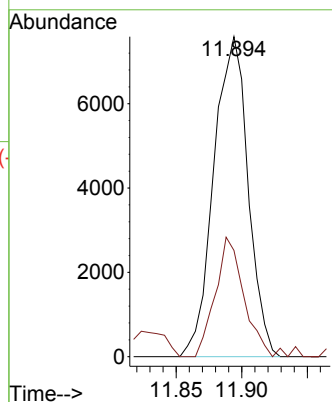
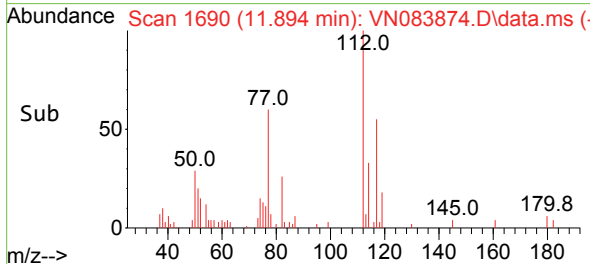
Instrument :
MSVOA_N
ClientSampleId :
VOA-240911078-02



Tgt Ion:112 Resp: 13800
Ion Ratio Lower Upper
112 100
114 33.2 26.6 39.8

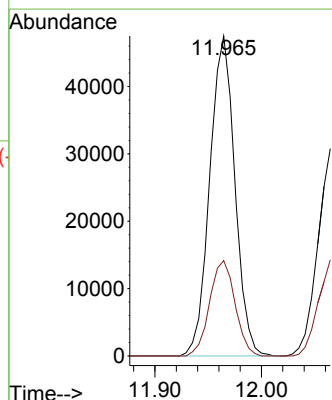
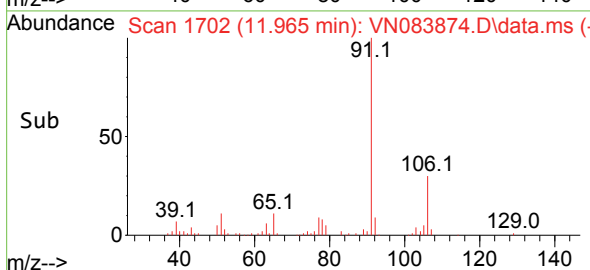
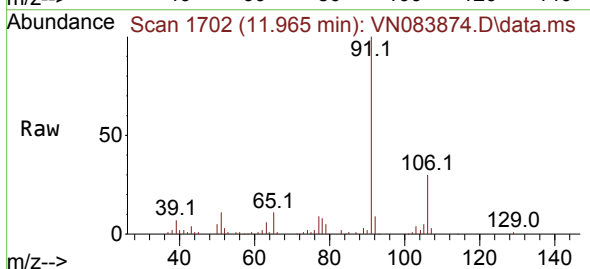
Manual Integrations
APPROVED

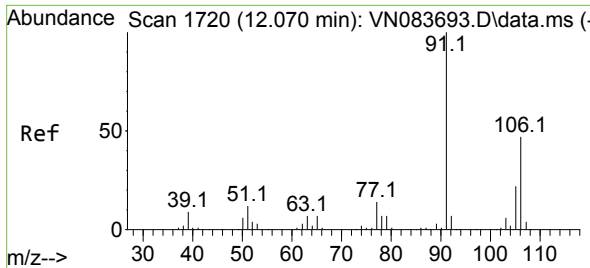
Reviewed By :John Carlone 09/14/2024
Supervised By :Semsettin Yesilyurt 09/16/2024



#66
Ethyl Benzene
Concen: 8.961 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

Tgt Ion: 91 Resp: 77701
Ion Ratio Lower Upper
91 100
106 29.8 24.4 36.6





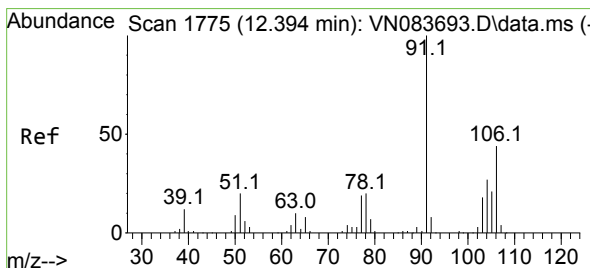
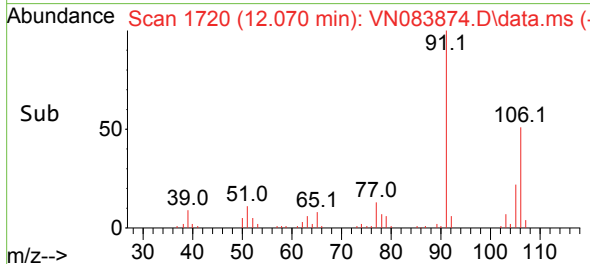
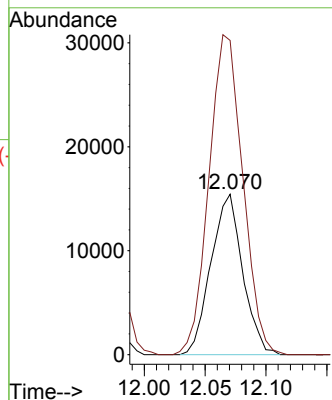
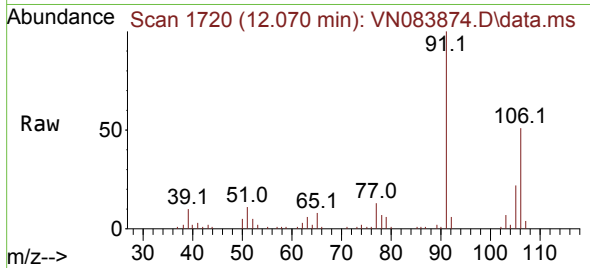
#67
m/p-Xylenes
Concen: 8.783 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

Instrument :
MSVOA_N
ClientSampleId :
VOA-240911078-02

Tgt Ion:106 Resp: 28018
Ion Ratio Lower Upper
106 100
91 212.7 166.6 249.8

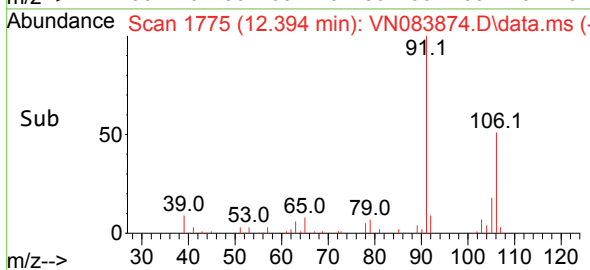
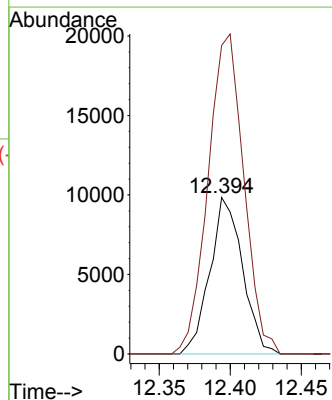
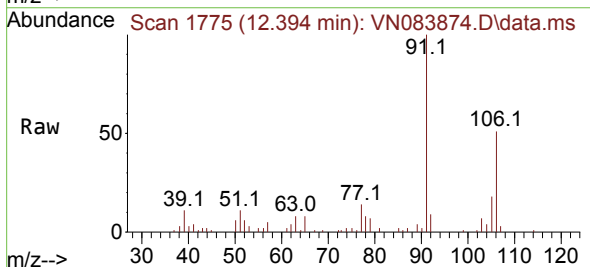
Manual Integrations
APPROVED

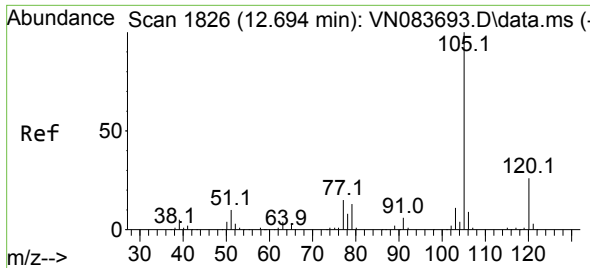
Reviewed By :John Carlone 09/14/2024
Supervised By :Semsettin Yesilyurt 09/16/2024



#68
o-Xylene
Concen: 5.096 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

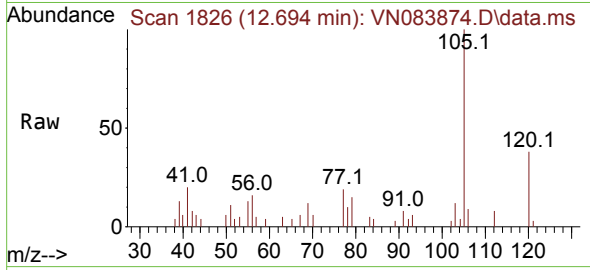
Tgt Ion:106 Resp: 15734
Ion Ratio Lower Upper
106 100
91 223.8 110.0 330.0





#70
Isopropylbenzene
Concen: 1.202 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

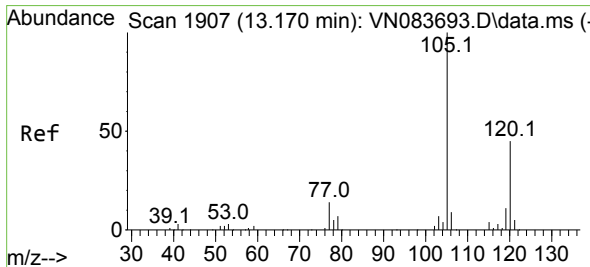
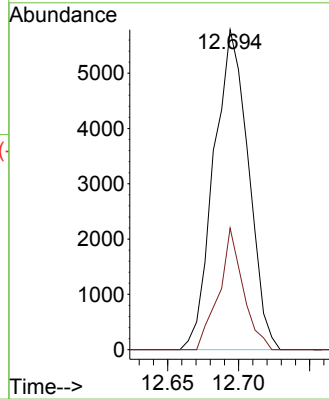
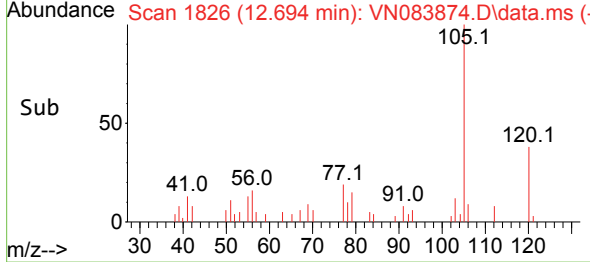
Instrument :
MSVOA_N
ClientSampleId :
VOA-240911078-02



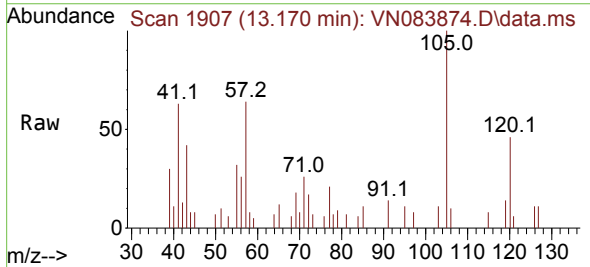
Tgt Ion:105 Resp: 9792
Ion Ratio Lower Upper
105 100
120 26.6 17.8 33.1

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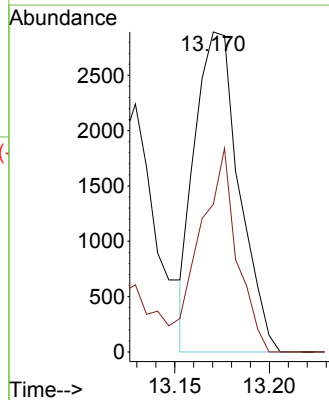
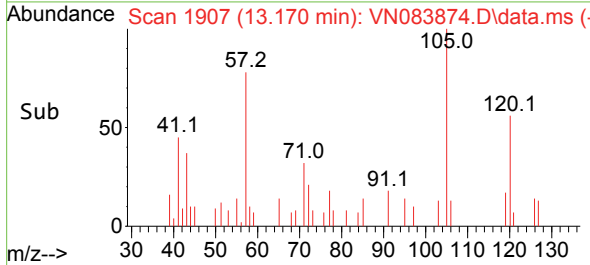
Reviewed By :John Carlone 09/14/2024
Supervised By :Semsettin Yesilyurt 09/16/2024

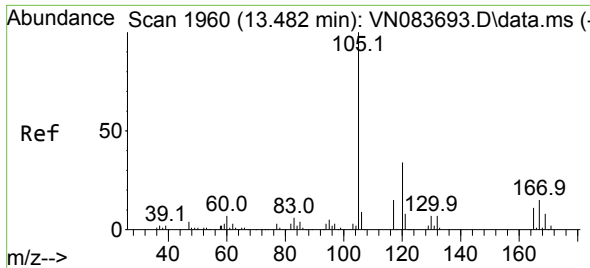


#76
1,3,5-Trimethylbenzene
Concen: 0.691 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55



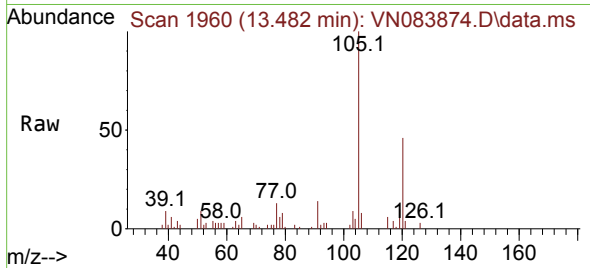
Tgt Ion:105 Resp: 4703
Ion Ratio Lower Upper
105 100
120 53.1 0.0 95.8





#80
1,2,4-Trimethylbenzene
Concen: 2.993 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

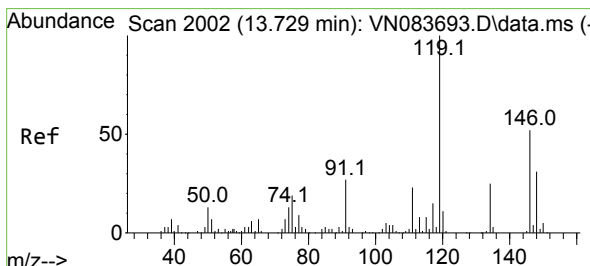
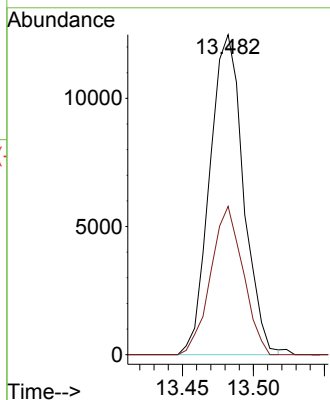
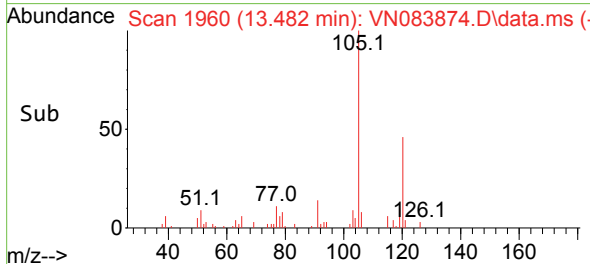
Instrument :
MSVOA_N
ClientSampleId :
VOA-240911078-02



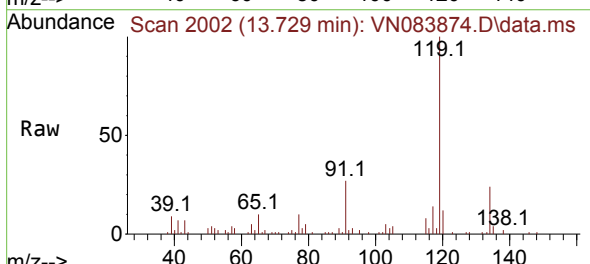
Tgt Ion:105 Resp: 20584
Ion Ratio Lower Upper
105 100
120 44.5 0.0 86.8

Manual Integrations
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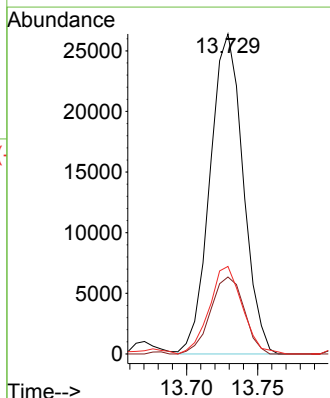
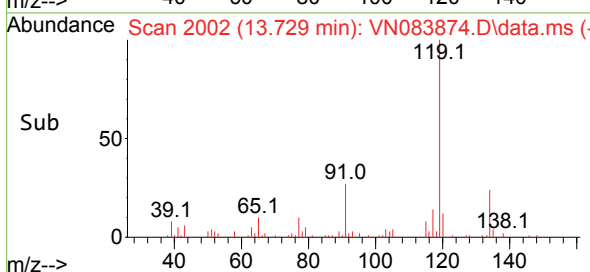
Reviewed By :John Carlone 09/14/2024
Supervised By :Semsettin Yesilyurt 09/16/2024

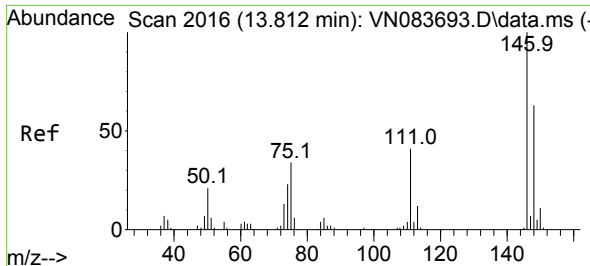


#82
p-Isopropyltoluene
Concen: 6.253 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55



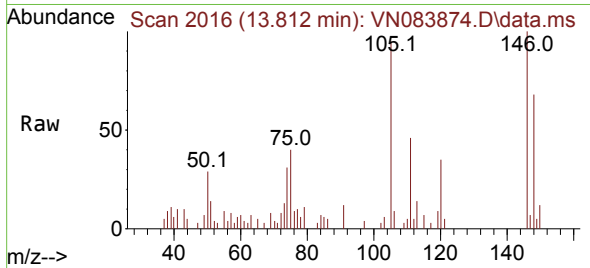
Tgt Ion:119 Resp: 42777
Ion Ratio Lower Upper
119 100
134 24.4 0.0 49.2
91 27.4 0.0 48.8





#84
1,4-Dichlorobenzene
Concen: 2.766 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

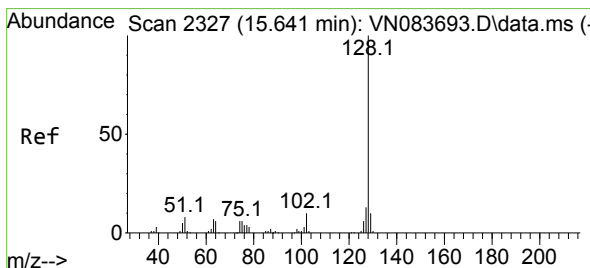
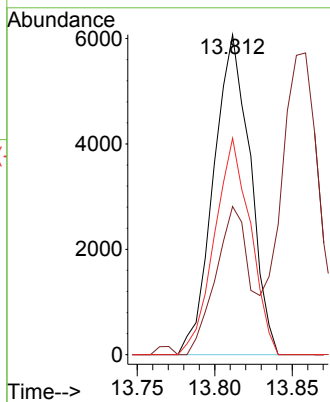
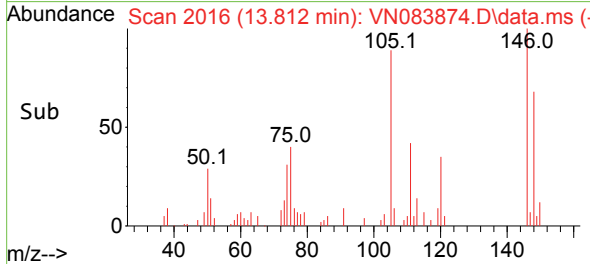
Instrument :
MSVOA_N
ClientSampleId :
VOA-240911078-02



Tgt Ion:146 Resp: 996
Ion Ratio Lower Upper
146 100
111 43.7 21.3 63.9
148 66.6 31.9 95.5

Manual Integrations
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Reviewed By :John Carlone 09/14/2024
Supervised By :Semsettin Yesilyurt 09/16/2024



#91
Naphthalene
Concen: 24.778 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN083874.D
Acq: 13 Sep 2024 16:55

Tgt Ion:128 Resp: 155137
Ion Ratio Lower Upper
128 100
127 12.9 10.6 16.0
129 10.9 8.6 13.0

