

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
 Data File : VN088061.D
 Acq On : 17 Oct 2025 12:14
 Operator : JC\MD
 Sample : Q3362-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VOA 251015085-01

Quant Time: Oct 18 01:27:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 02:36:32 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/20/2025
 Supervised By :Mahesh Dadoda 10/20/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	44318	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	244489	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	216449	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	116912	33.878	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 112.933%#			
60) 4-Bromofluorobenzene	12.829	95	104169	29.193	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.300%			
63) Toluene-d8	10.547	98	290824	30.157	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.533%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.136	85	1285	0.506	ug/l #	39
6) Chloroethane	3.130	64	2502m	1.264	ug/l	
8) Diethyl Ether	3.965	74	46382	25.156	ug/l	96
23) tert-Butyl Alcohol	5.512	59	231942	316.348	ug/l #	100
24) Methyl tert-Butyl Ether	5.777	73	8175m	0.813	ug/l	
34) Benzene	8.583	78	32057	2.758	ug/l #	58
45) 1,4-Dioxane	9.677	88	12852	238.123	ug/l #	59
62) Toluene	10.606	91	8780	0.715	ug/l	94
64) Chlorobenzene	11.871	112	201914	25.747	ug/l	97
66) Ethyl Benzene	11.947	91	9378	0.702	ug/l	90
67) m/p-Xylenes	12.047	106	27399	5.324	ug/l	95
68) o-Xylene	12.376	106	19980	3.900	ug/l	90
70) Isopropylbenzene	12.676	105	16411	1.307	ug/l	95
74) n-propylbenzene	13.018	91	4900	0.323	ug/l	72
75) 2-Chlorotoluene	13.112	91	7506	0.810	ug/l	81
76) 1,3,5-Trimethylbenzene	13.153	105	4866	0.456	ug/l	49
80) 1,2,4-Trimethylbenzene	13.459	105	27241	2.551	ug/l	95
84) 1,4-Dichlorobenzene	13.794	146	65851	11.057	ug/l	96
87) 1,2-Dichlorobenzene	14.082	146	5192	0.914	ug/l	95
91) Naphthalene	15.612	128	99009	7.993	ug/l	100

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

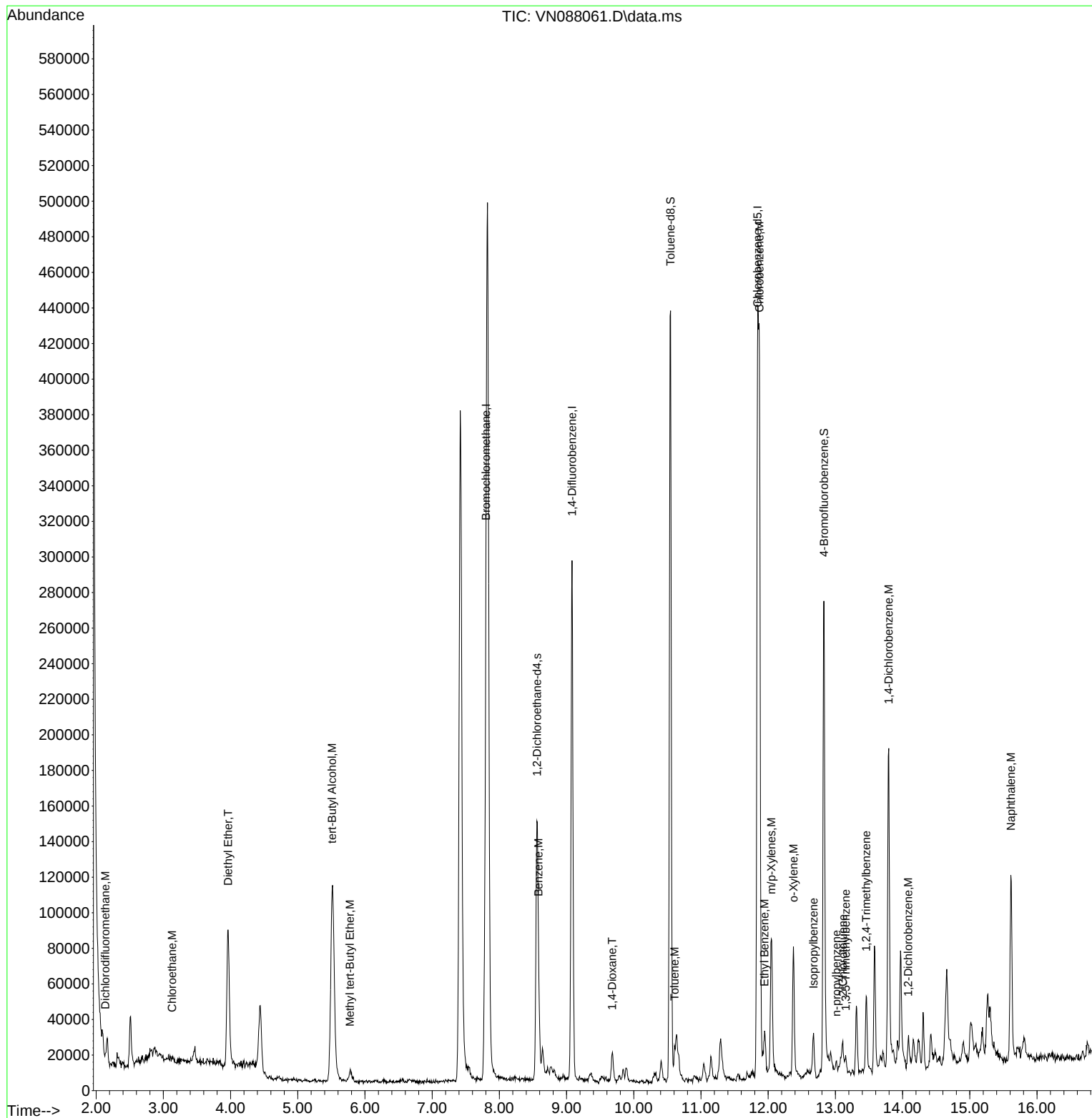
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088061.D
Acq On : 17 Oct 2025 12:14
Operator : JC\MD
Sample : Q3362-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

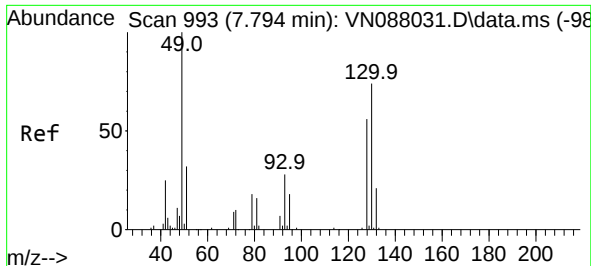
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015085-01

Quant Time: Oct 18 01:27:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

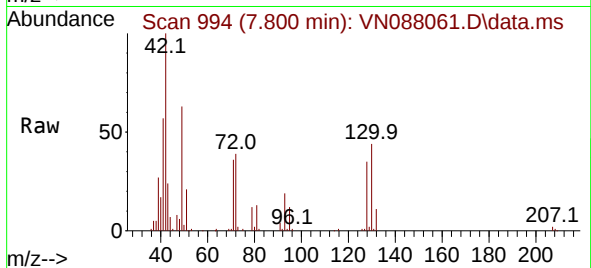
Reviewed By : John Carlone 10/20/2025
Supervised By : Mahesh Dadoda 10/20/2025





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 993
Delta R.T. 0.006 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

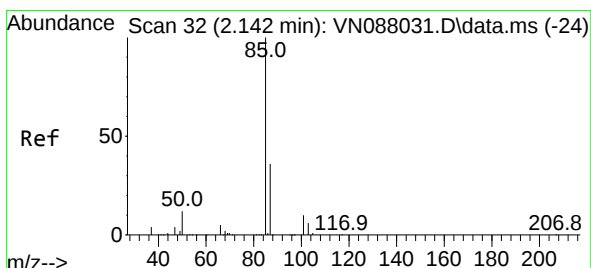
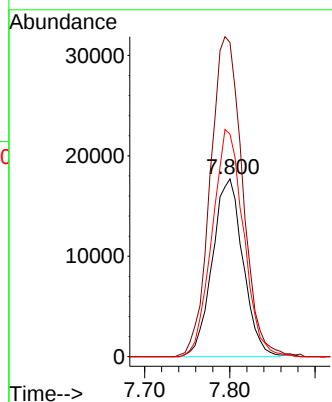
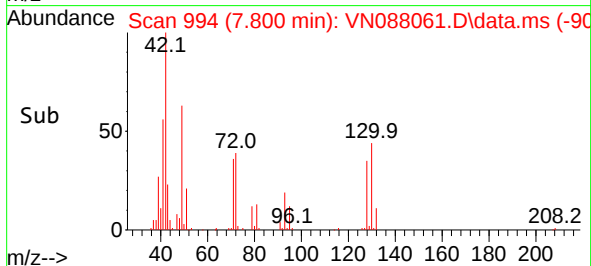
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015085-01



Tgt Ion:128 Resp: 44318
Ion Ratio Lower Upper
128 100
49 189.4 0.0 439.8
130 130.9 0.0 325.8

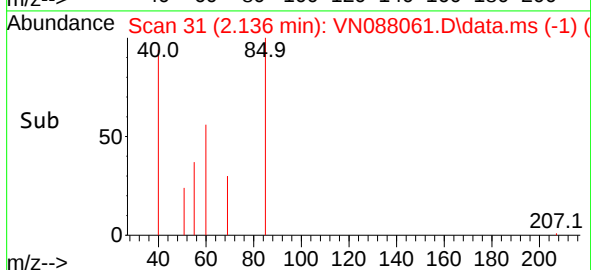
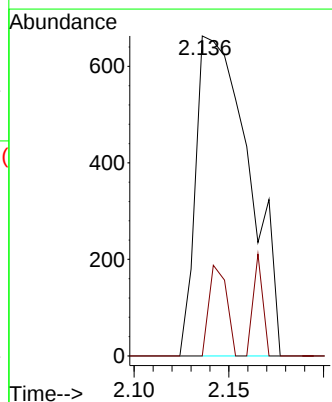
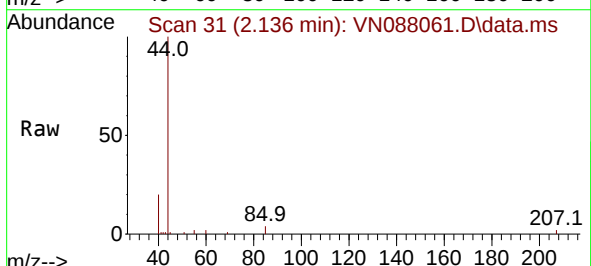
Manual Integrations
APPROVED

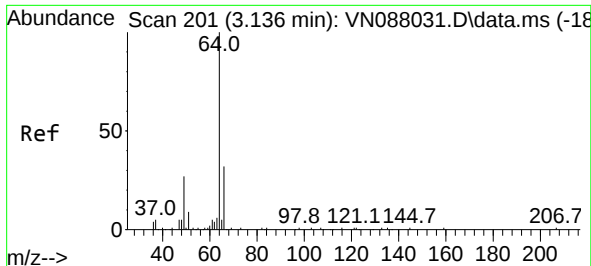
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#2
Dichlorodifluoromethane
Concen: 0.506 ug/l
RT: 2.136 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

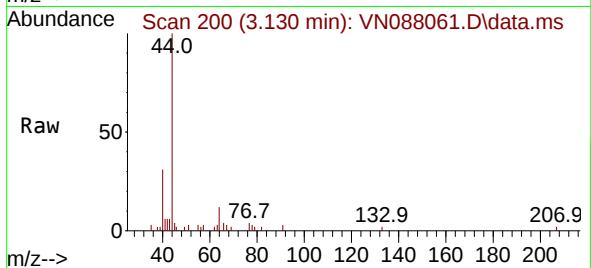
Tgt Ion: 85 Resp: 1285
Ion Ratio Lower Upper
85 100
87 0.0 17.9 53.8#





#6
Chloroethane
Concen: 1.264 ug/l m
RT: 3.130 min Scan# 201
Delta R.T. -0.006 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

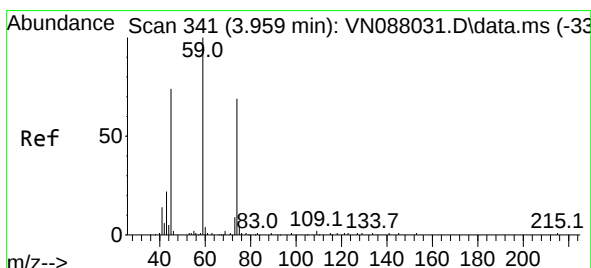
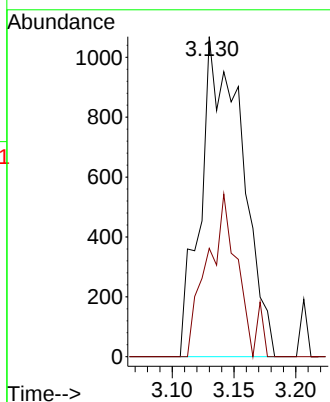
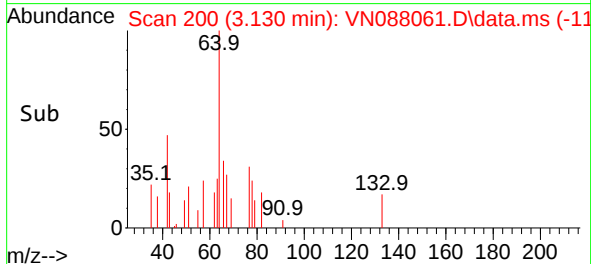
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015085-01



Tgt Ion: 64 Resp: 250
Ion Ratio Lower Upper
64 100
66 33.9 26.8 40.2

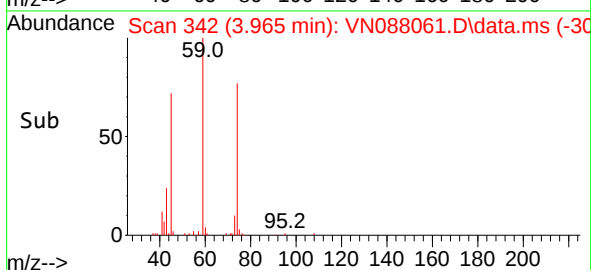
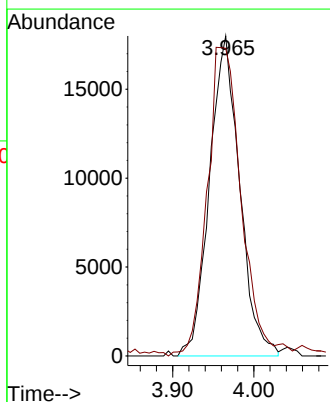
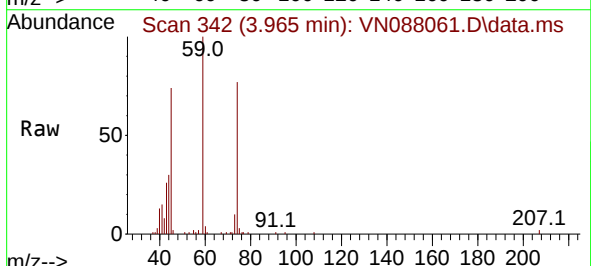
Manual Integrations
APPROVED

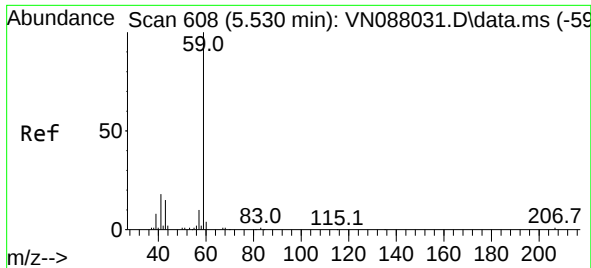
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#8
Diethyl Ether
Concen: 25.156 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

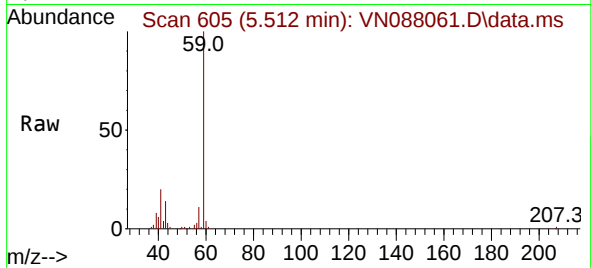
Tgt Ion: 74 Resp: 46382
Ion Ratio Lower Upper
74 100
45 105.9 20.4 183.8





#23
tert-Butyl Alcohol
Concen: 316.348 ug/l
RT: 5.512 min Scan# 608
Delta R.T. -0.017 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

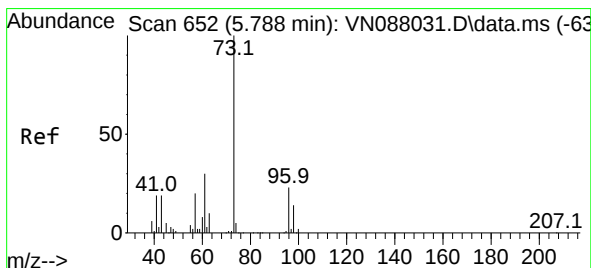
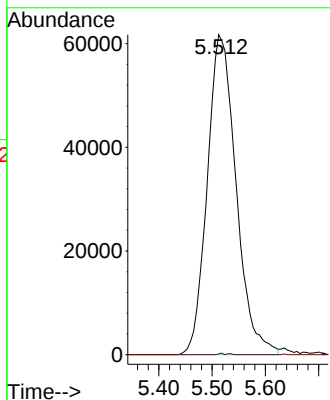
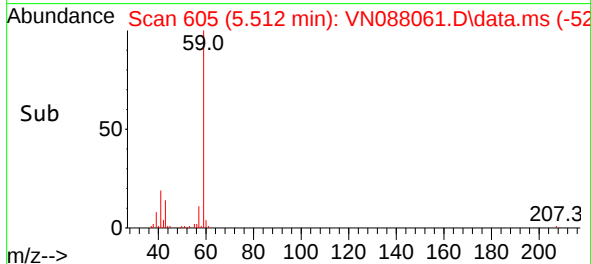
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015085-01



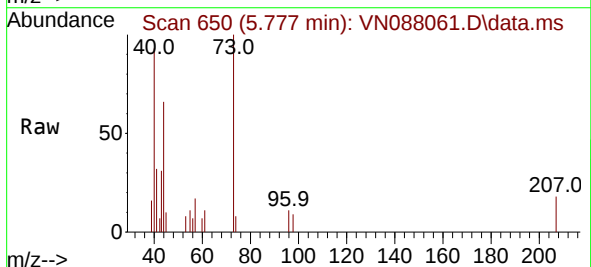
Tgt Ion: 59 Resp: 23194
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0

Manual Integrations
APPROVED

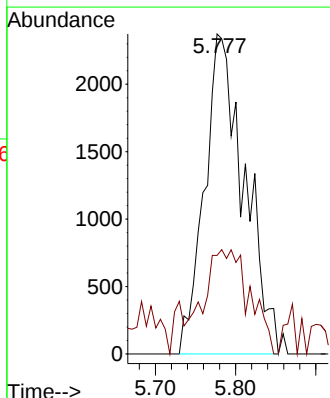
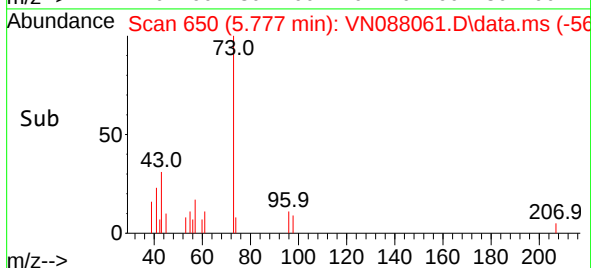
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

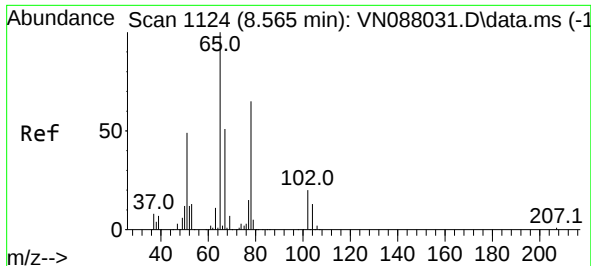


#24
Methyl tert-Butyl Ether
Concen: 0.813 ug/l m
RT: 5.777 min Scan# 650
Delta R.T. -0.012 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14



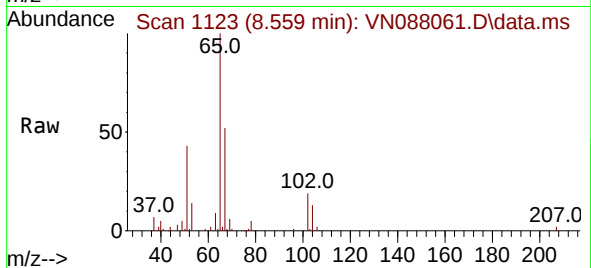
Tgt Ion: 73 Resp: 8175
Ion Ratio Lower Upper
73 100
43 8.1 17.0 25.4





#27
1,2-Dichloroethane-d4
Concen: 33.878 ug/l
RT: 8.559 min Scan# 1124
Delta R.T. -0.006 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

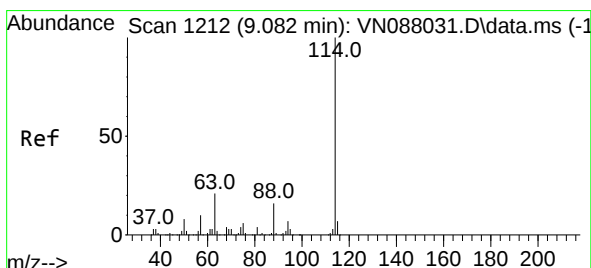
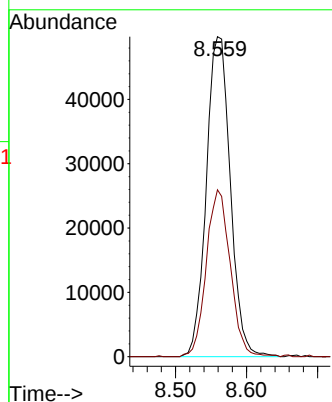
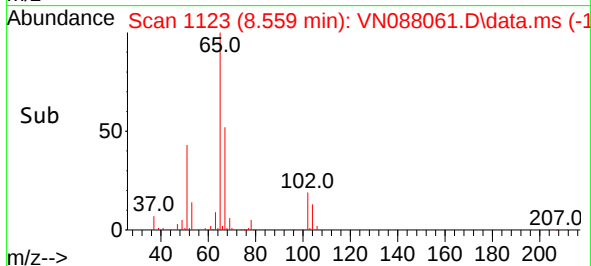
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015085-01



Tgt Ion: 65 Resp: 11691
Ion Ratio Lower Upper
65 100
67 51.9 41.9 62.9

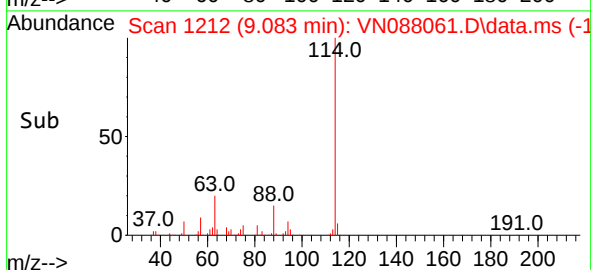
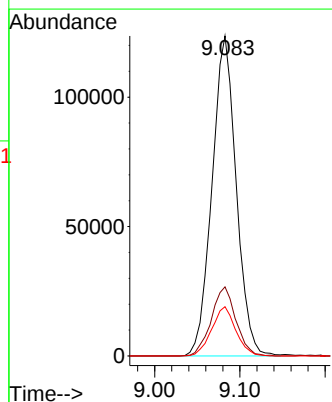
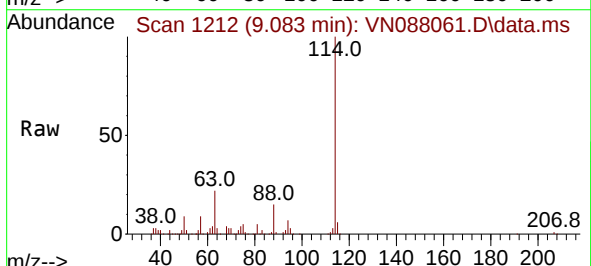
Manual Integrations
APPROVED

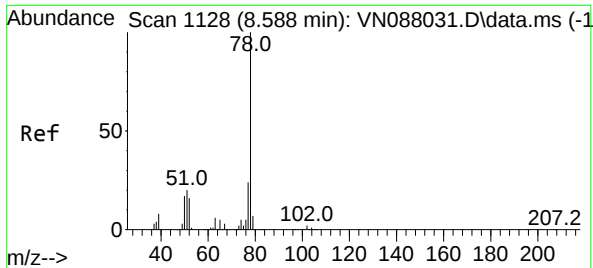
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.083 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

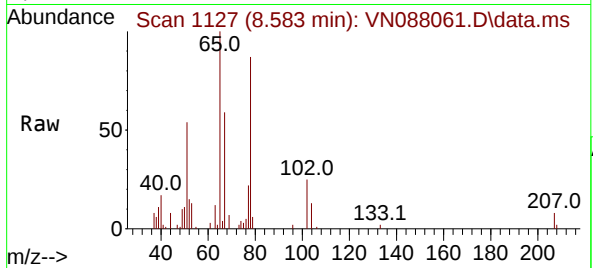
Tgt Ion:114 Resp: 244489
Ion Ratio Lower Upper
114 100
63 21.9 16.6 25.0
88 15.3 12.6 18.8





#34
Benzene
Concen: 2.758 ug/l
RT: 8.583 min Scan# 1128
Delta R.T. -0.006 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

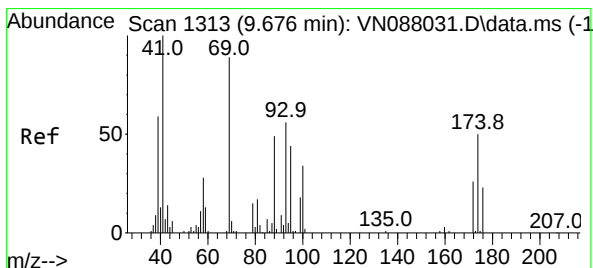
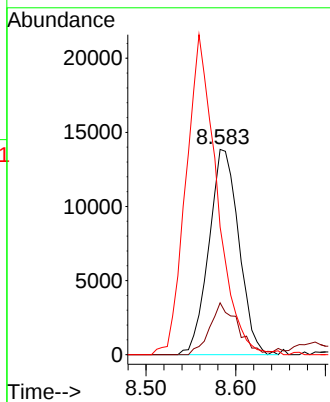
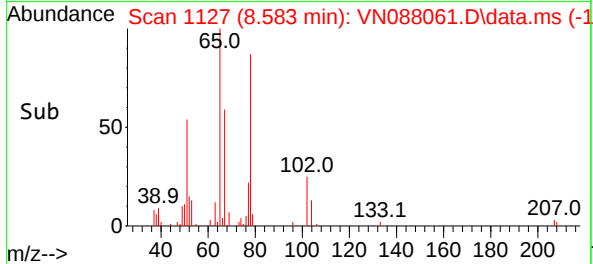
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015085-01



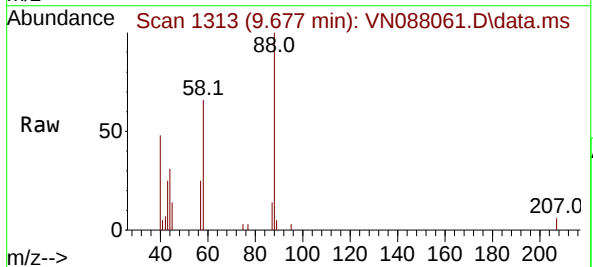
Tgt Ion: 78 Resp: 3205
Ion Ratio Lower Upper
78 100
77 25.2 18.9 28.3
51 60.3 15.6 23.4

Manual Integrations
APPROVED

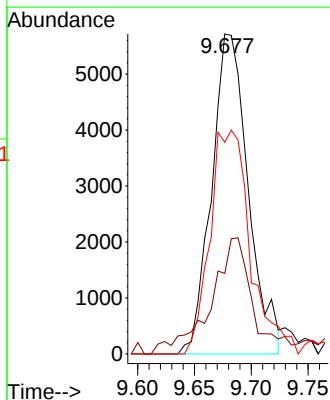
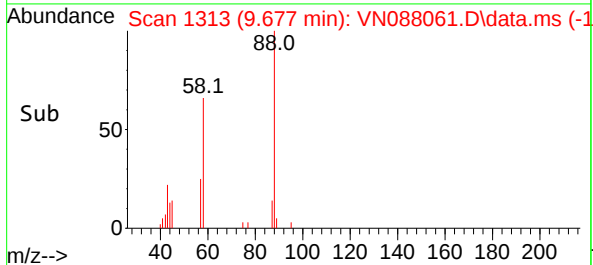
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

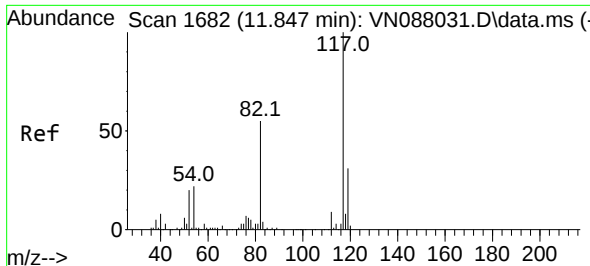


#45
1,4-Dioxane
Concen: 238.123 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. 0.000 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14



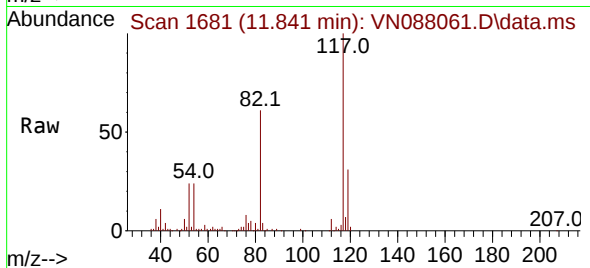
Tgt Ion: 88 Resp: 12852
Ion Ratio Lower Upper
88 100
43 35.2 18.6 27.8#
58 33.7 57.4 86.2#





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.841 min Scan# 1682
Delta R.T. -0.006 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

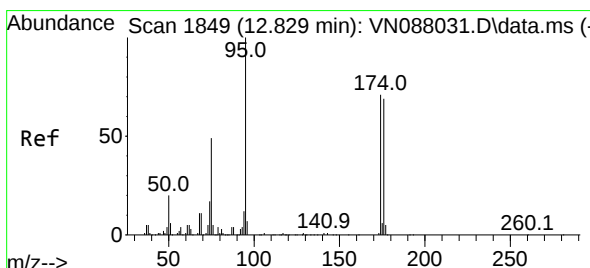
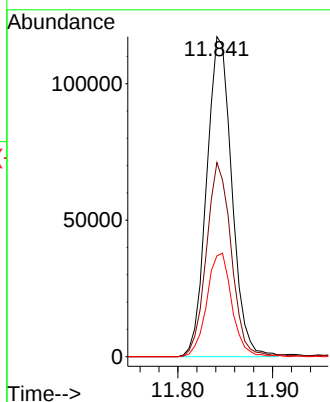
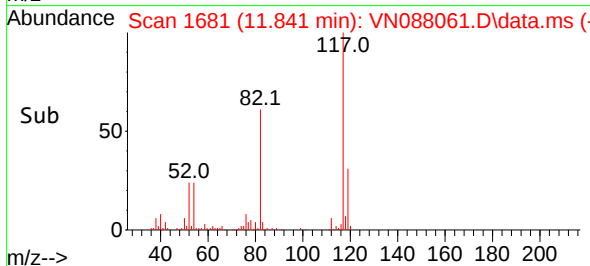
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015085-01



Tgt Ion:117 Resp: 216449
Ion Ratio Lower Upper
117 100
82 59.8 45.2 67.8
119 32.1 25.9 38.9

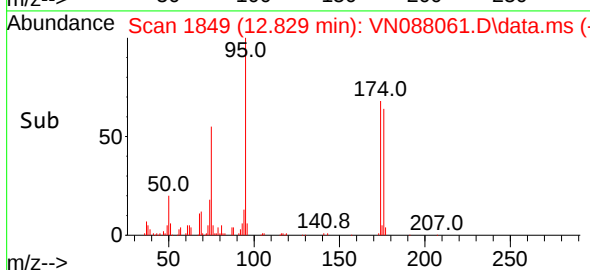
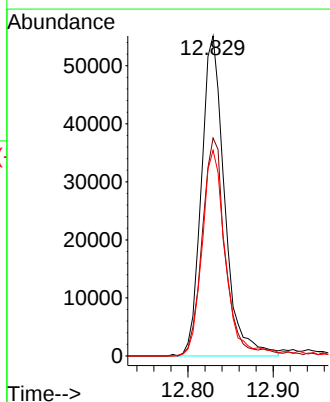
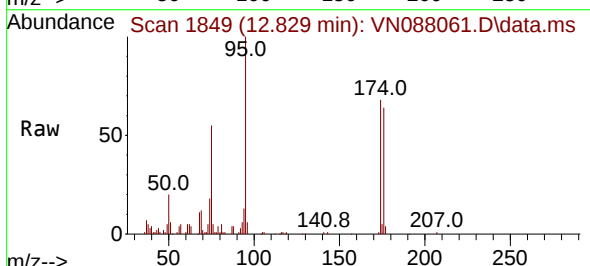
Manual Integrations
APPROVED

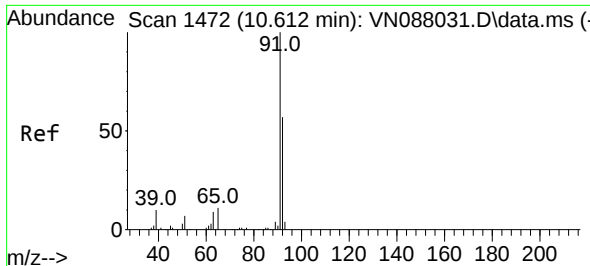
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#60
4-Bromofluorobenzene
Concen: 29.193 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

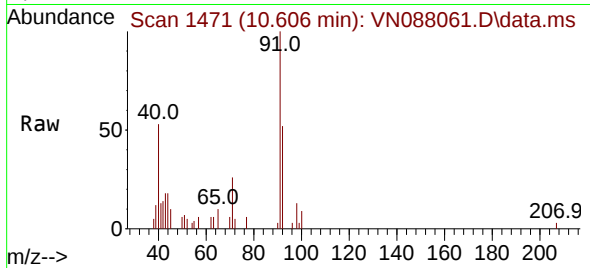
Tgt Ion: 95 Resp: 104169
Ion Ratio Lower Upper
95 100
174 66.5 57.4 86.0
176 63.0 57.0 85.4





#62
Toluene
Concen: 0.715 ug/l
RT: 10.606 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

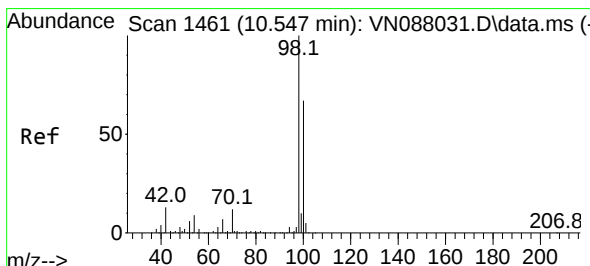
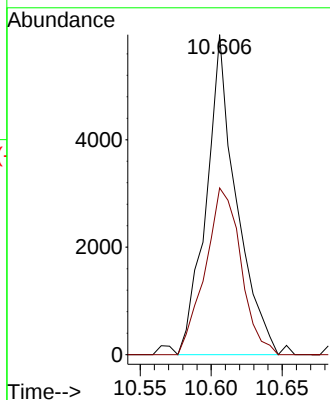
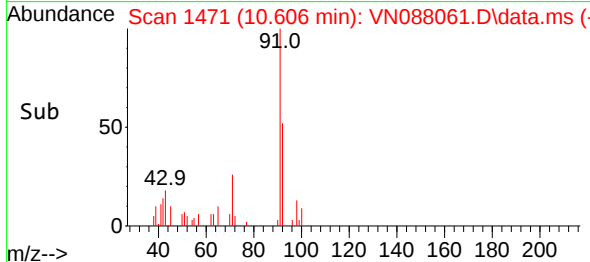
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015085-01



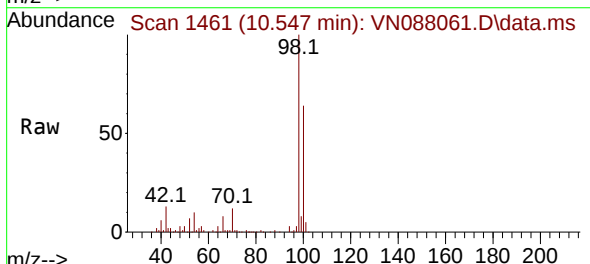
Tgt Ion: 91 Resp: 8780
Ion Ratio Lower Upper
91 100
92 61.8 45.8 68.8

Manual Integrations
APPROVED

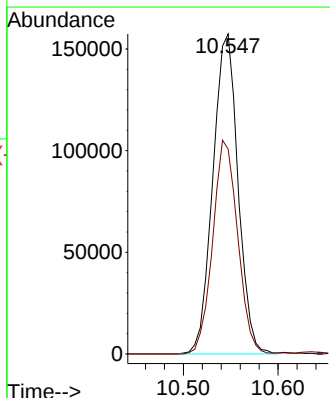
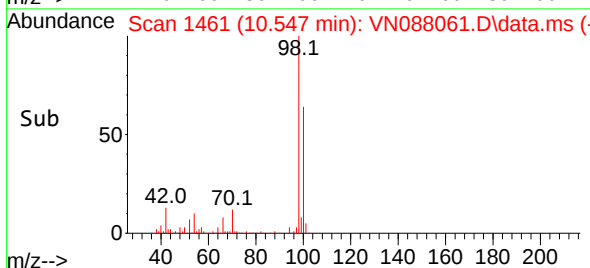
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

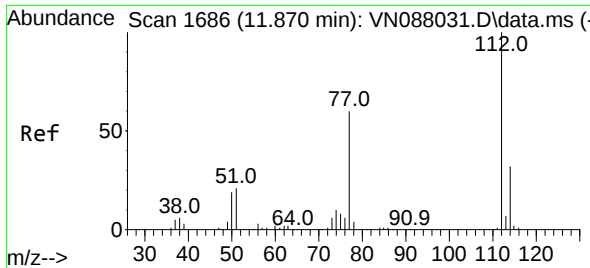


#63
Toluene-d8
Concen: 30.157 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14



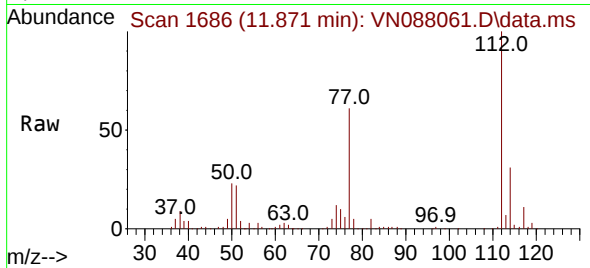
Tgt Ion: 98 Resp: 290824
Ion Ratio Lower Upper
98 100
100 66.3 53.1 79.7





#64
Chlorobenzene
Concen: 25.747 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

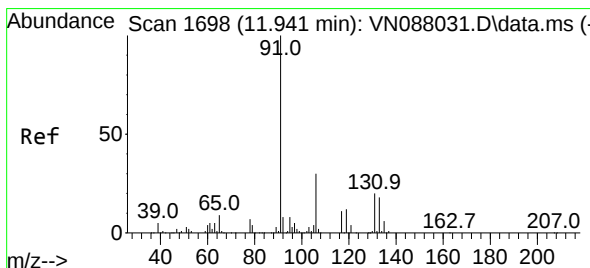
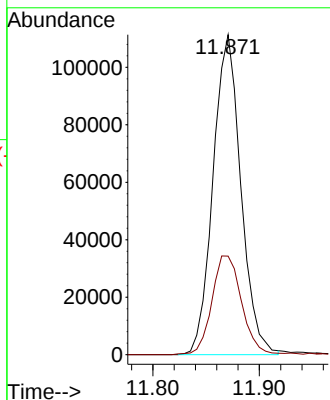
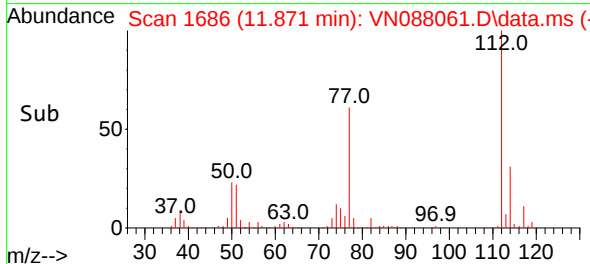
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015085-01



Tgt Ion:112 Resp: 201914
Ion Ratio Lower Upper
112 100
114 30.6 25.7 38.5

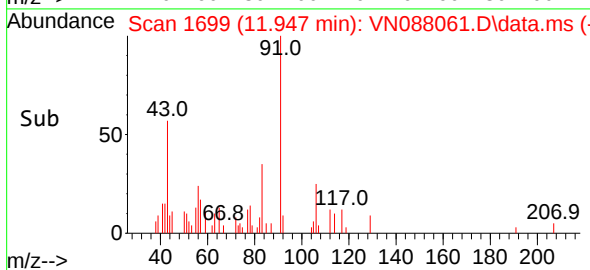
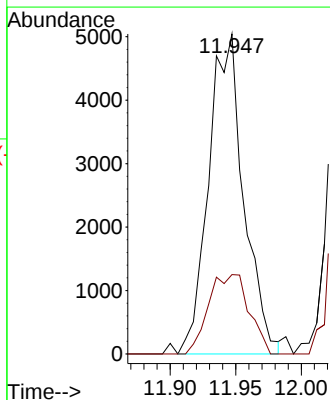
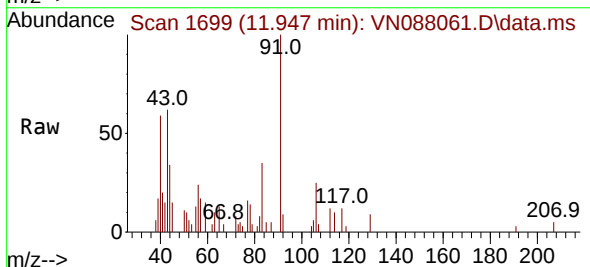
Manual Integrations
APPROVED

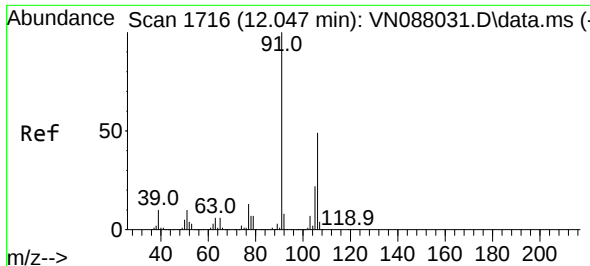
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#66
Ethyl Benzene
Concen: 0.702 ug/l
RT: 11.947 min Scan# 1699
Delta R.T. 0.006 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

Tgt Ion: 91 Resp: 9378
Ion Ratio Lower Upper
91 100
106 24.8 24.0 36.0





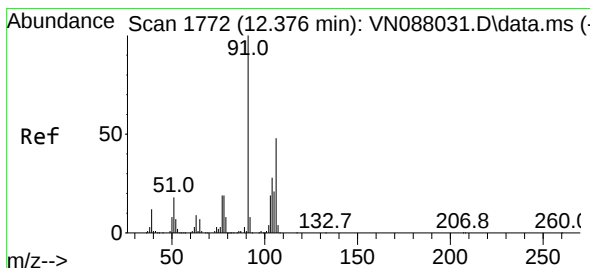
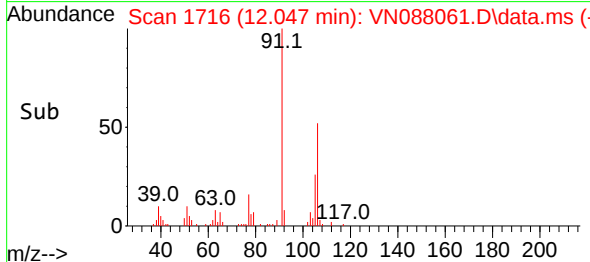
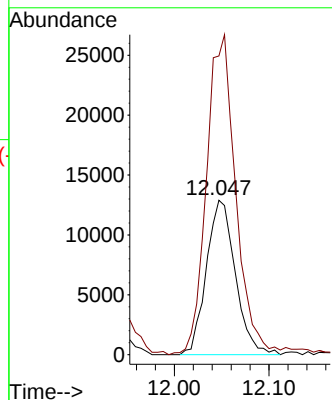
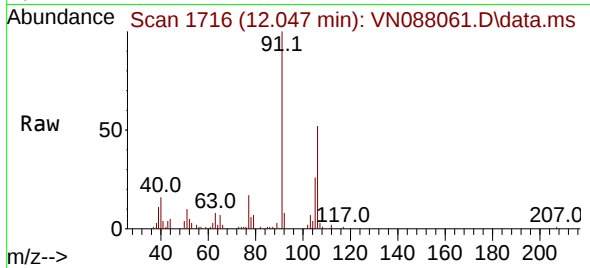
#67
m/p-Xylenes
Concen: 5.324 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

Instrument :
MSVOA_N
ClientSampleId :
VOA 251015085-01

Tgt Ion:106 Resp: 27399
Ion Ratio Lower Upper
106 100
91 209.4 161.4 242.0

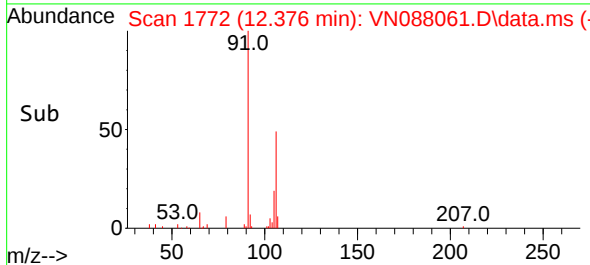
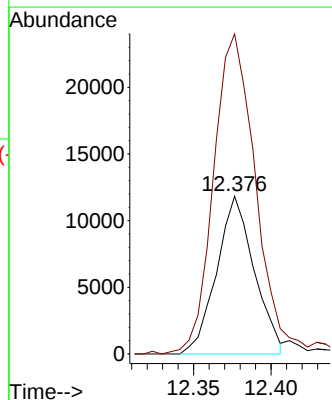
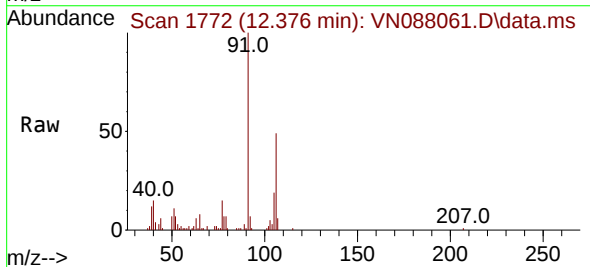
Manual Integrations
APPROVED

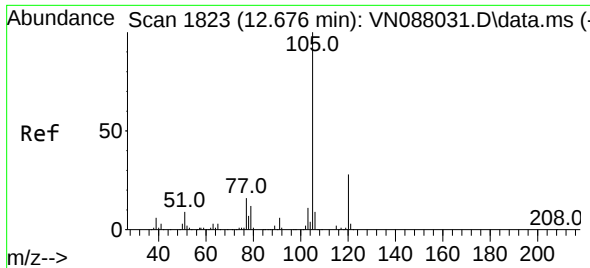
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#68
o-Xylene
Concen: 3.900 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

Tgt Ion:106 Resp: 19980
Ion Ratio Lower Upper
106 100
91 225.8 105.2 315.6





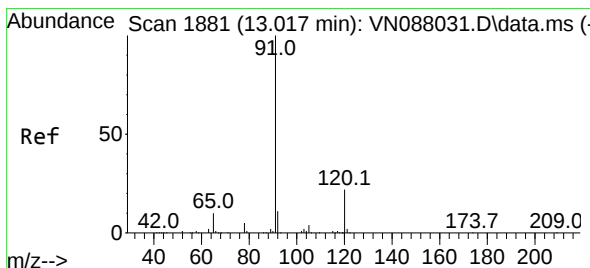
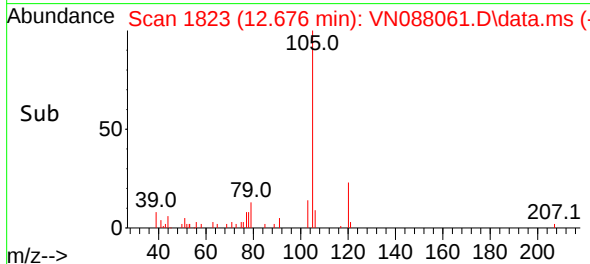
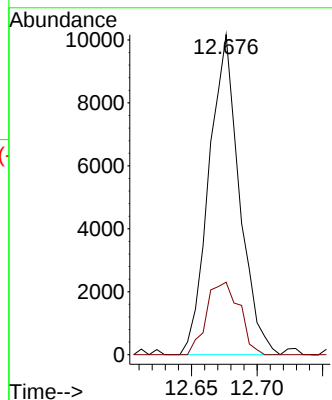
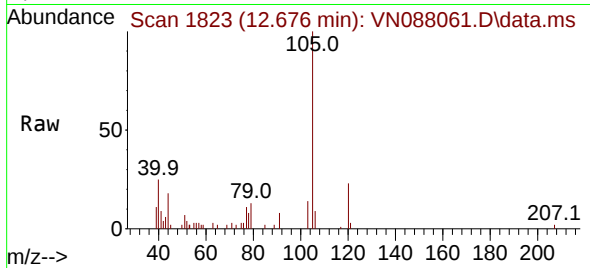
#70
Isopropylbenzene
Concen: 1.307 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.000 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

Instrument :
MSVOA_N
ClientSampleId :
VOA 251015085-01

Tgt Ion:105 Resp: 1641
Ion Ratio Lower Upper
105 100
120 24.5 19.1 35.5

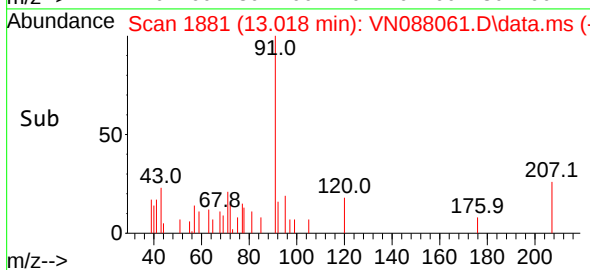
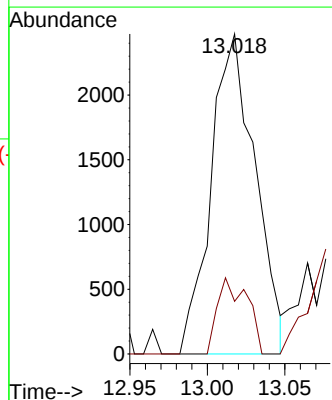
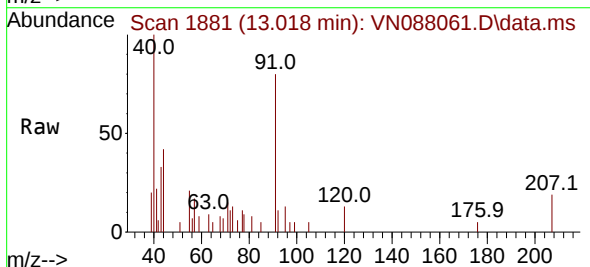
Manual Integrations
APPROVED

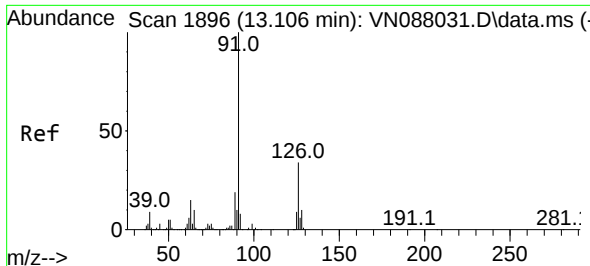
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#74
n-propylbenzene
Concen: 0.323 ug/l
RT: 13.018 min Scan# 1881
Delta R.T. 0.000 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

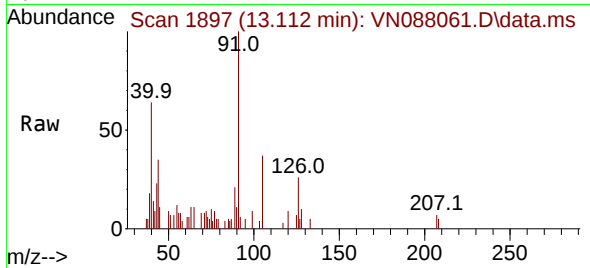
Tgt Ion: 91 Resp: 4900
Ion Ratio Lower Upper
91 100
120 9.7 0.0 46.2





#75
2-Chlorotoluene
Concen: 0.810 ug/l
RT: 13.112 min Scan# 1896
Delta R.T. 0.006 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

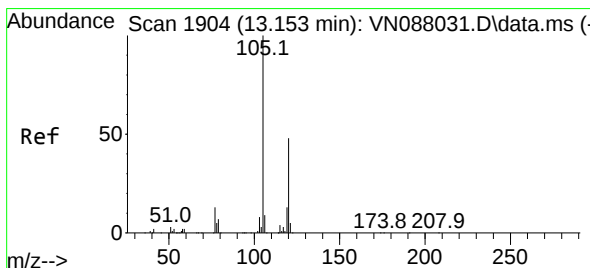
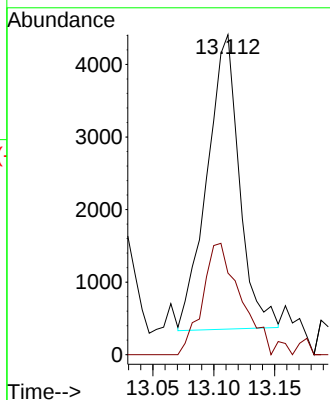
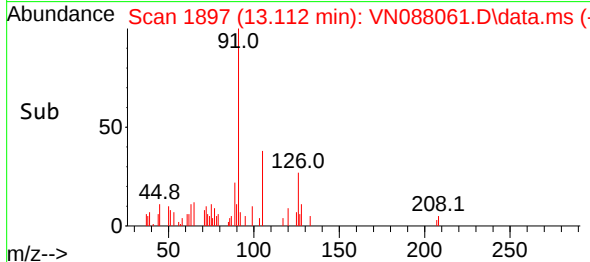
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015085-01



Tgt Ion: 91 Resp: 7500
Ion Ratio Lower Upper
91 100
126 44.2 0.0 66.6

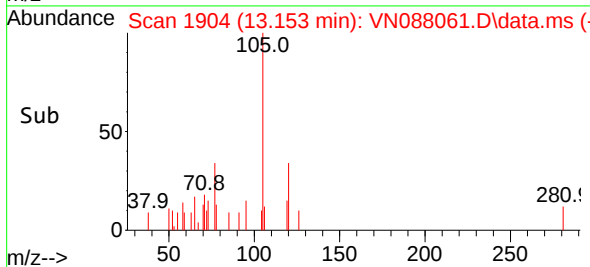
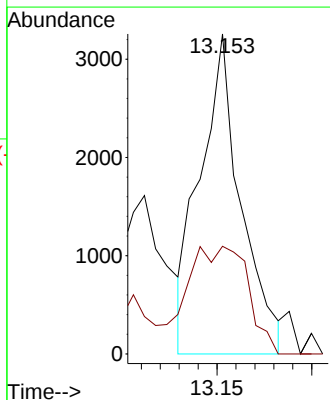
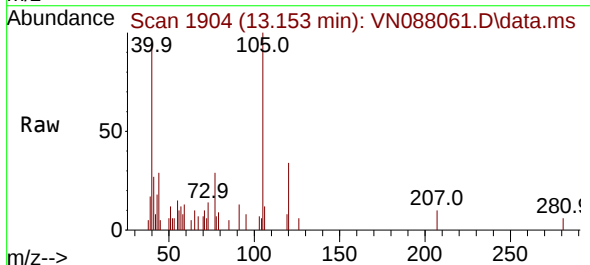
Manual Integrations
APPROVED

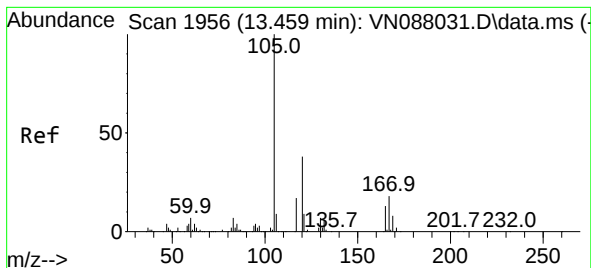
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#76
1,3,5-Trimethylbenzene
Concen: 0.456 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

Tgt Ion:105 Resp: 4866
Ion Ratio Lower Upper
105 100
120 14.7 0.0 100.6





#80

1,2,4-Trimethylbenzene

Concen: 2.551 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VN088061.D

Acq: 17 Oct 2025 12:14

Instrument :

MSVOA_N

ClientSampleId :

VOA 251015085-01

Tgt Ion:105 Resp: 2724

Ion Ratio Lower Upper

105 100

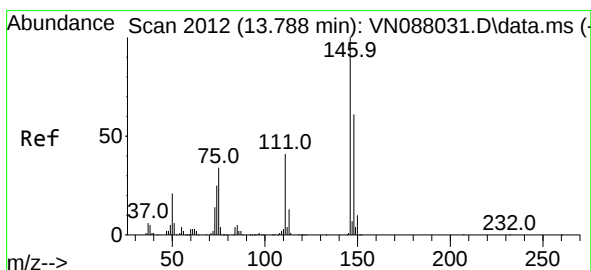
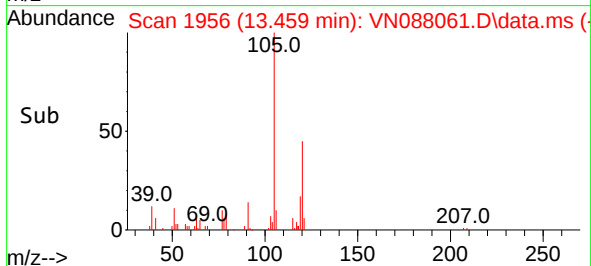
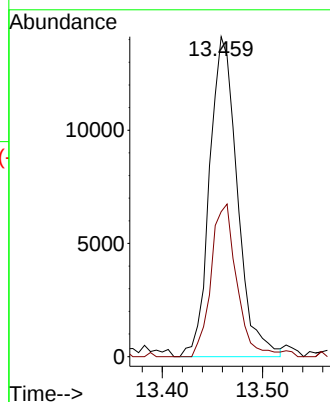
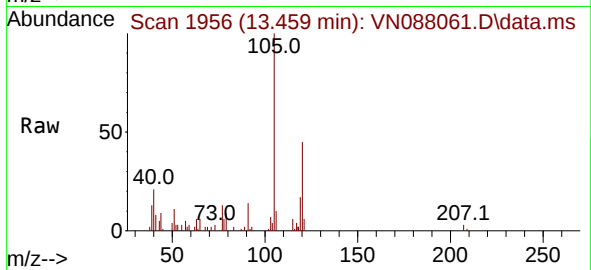
120 43.9 0.0 93.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2025

Supervised By :Mahesh Dadoda 10/20/2025



#84

1,4-Dichlorobenzene

Concen: 11.057 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.006 min

Lab File: VN088061.D

Acq: 17 Oct 2025 12:14

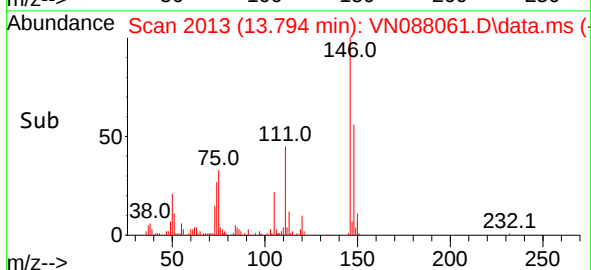
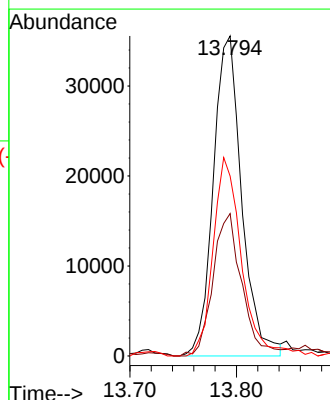
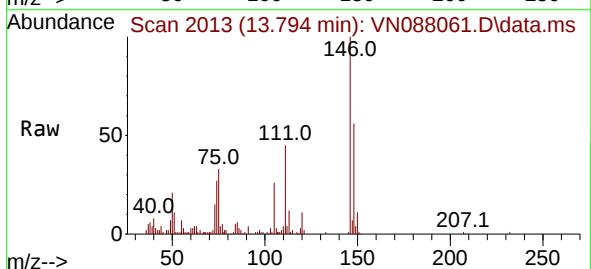
Tgt Ion:146 Resp: 65851

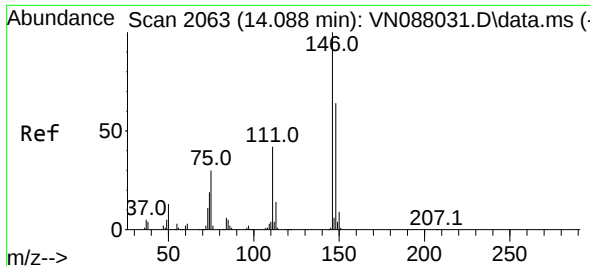
Ion Ratio Lower Upper

146 100

111 45.1 20.5 61.6

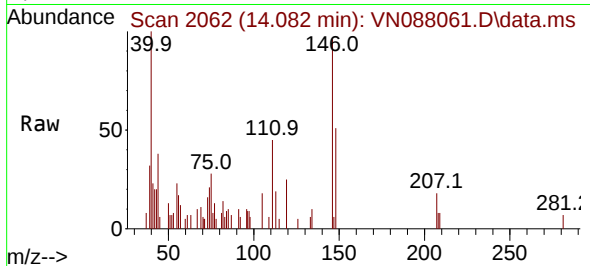
148 62.1 31.9 95.9





#87
1,2-Dichlorobenzene
Concen: 0.914 ug/l
RT: 14.082 min Scan# 2062
Delta R.T. -0.006 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14

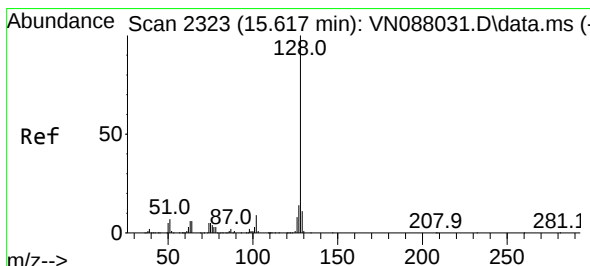
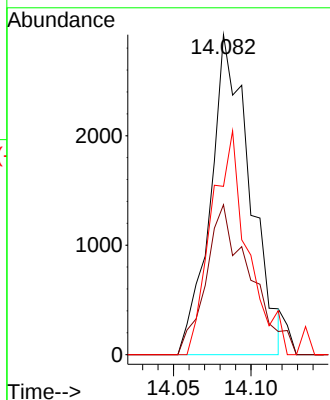
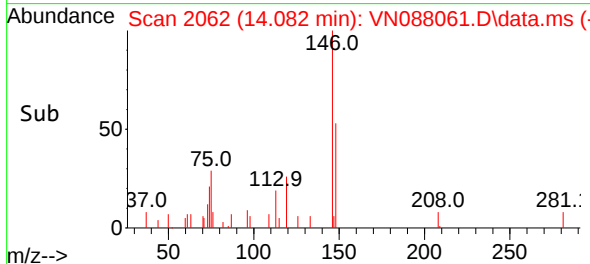
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015085-01



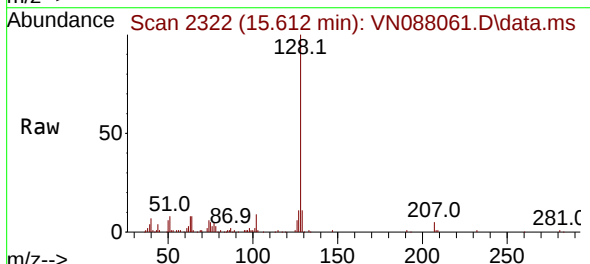
Tgt Ion:146 Resp: 5192
Ion Ratio Lower Upper
146 100
111 50.4 22.3 66.8
148 61.4 31.4 94.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#91
Naphthalene
Concen: 7.993 ug/l
RT: 15.612 min Scan# 2322
Delta R.T. -0.006 min
Lab File: VN088061.D
Acq: 17 Oct 2025 12:14



Tgt Ion:128 Resp: 99009
Ion Ratio Lower Upper
128 100
127 13.2 10.3 15.5
129 10.8 8.6 13.0

