

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102822\
 Data File : VN075059.D
 Acq On : 28 Oct 2022 14:36
 Operator : JC\MD
 Sample : N5314-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 221026069-02-VOA

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/31/2022
 Supervised By :Mahesh Dadoda 10/31/2022

Quant Time: Oct 31 01:50:44 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102522W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 27 10:19:47 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	13800	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	81315	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	71236	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	43203	34.239	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 114.133%#			
60) 4-Bromofluorobenzene	12.847	95	37437	26.747	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 89.167%			
63) Toluene-d8	10.571	98	124193	31.171	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.900%			
Target Compounds						
					Qvalue	
15) Acetone	4.436	58	32450	209.904	ug/l	89
23) tert-Butyl Alcohol	5.536	59	608918	2377.212	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	5261m	1.627	ug/l	
30) 2-Butanone	7.488	43	301107	374.493	ug/l	99
34) Benzene	8.612	78	16307	3.824	ug/l #	84
45) 1,4-Dioxane	9.700	88	1574	50.171	ug/l #	63
58) 4-Methyl-2-Pentanone	10.447	43	6561	4.270	ug/l #	88
62) Toluene	10.629	91	16369	3.549	ug/l	98
64) Chlorobenzene	11.894	112	4166	1.458	ug/l	96
66) Ethyl Benzene	11.965	91	14742	2.836	ug/l	99
67) m/p-Xylenes	12.071	106	14083	6.756	ug/l	96
68) o-Xylene	12.400	106	9040	4.314	ug/l	96
70) Isopropylbenzene	12.700	105	5690	1.042	ug/l	94
76) 1,3,5-Trimethylbenzene	13.176	105	2747	0.594	ug/l	92
80) 1,2,4-Trimethylbenzene	13.482	105	10460	2.223	ug/l #	81
82) p-Isopropyltoluene	13.735	119	8942	1.826	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	6132	2.645	ug/l	94
91) Naphthalene	15.641	128	22685	5.452	ug/l #	92

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

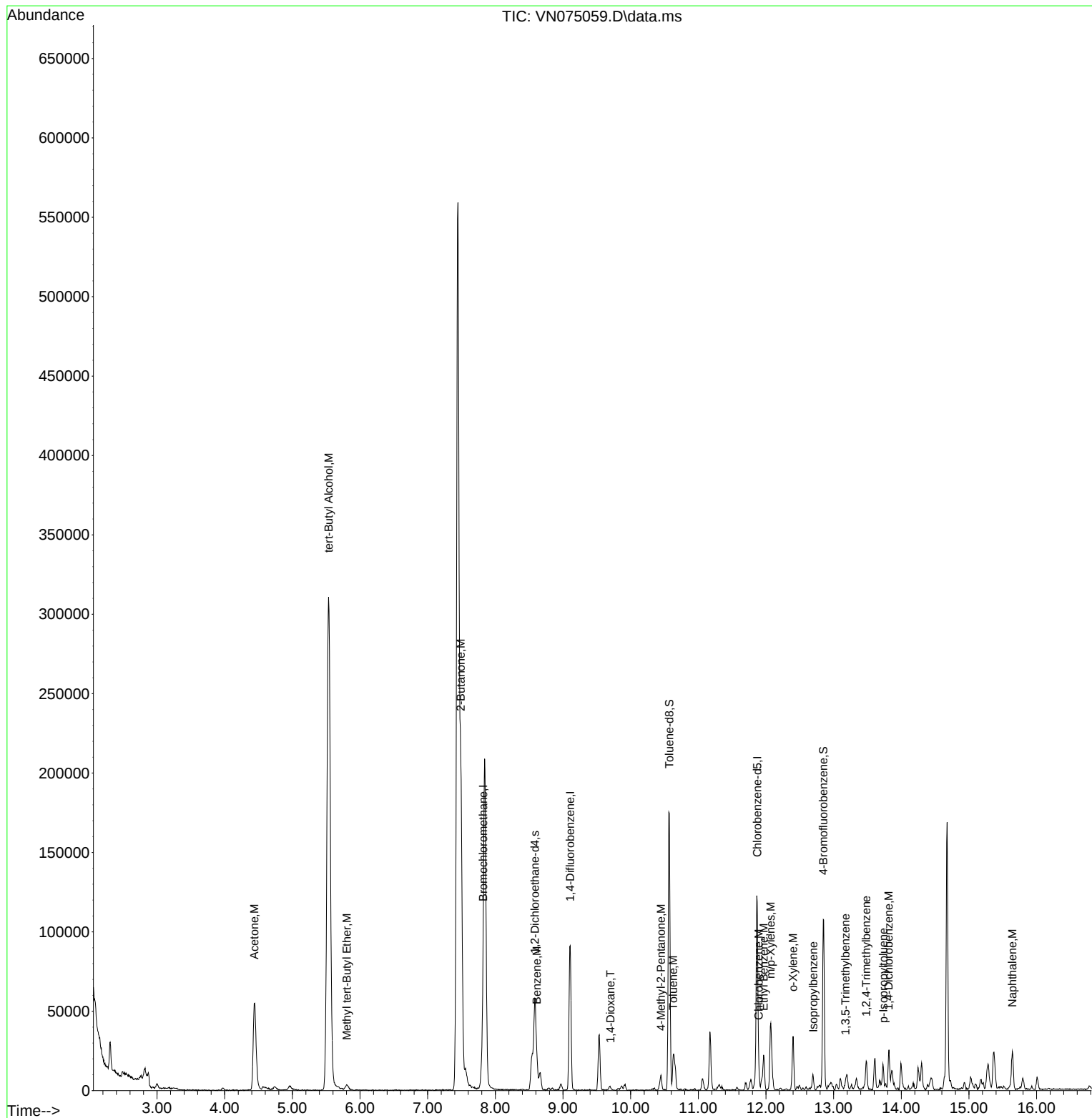
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102822\
Data File : VN075059.D
Acq On : 28 Oct 2022 14:36
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Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

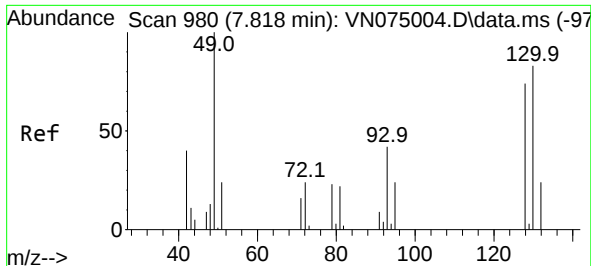
Instrument :
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221026069-02-VOA

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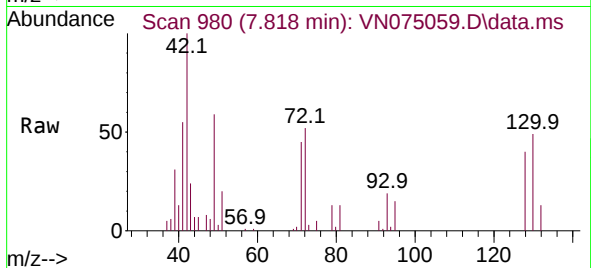
Quant Time: Oct 31 01:50:44 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102522W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 27 10:19:47 2022
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

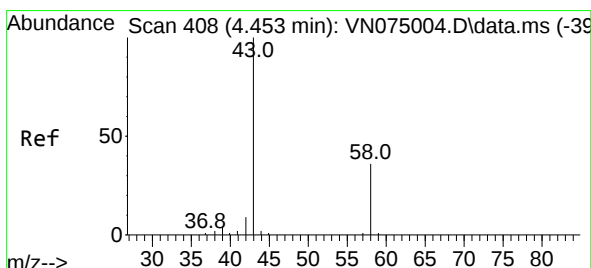
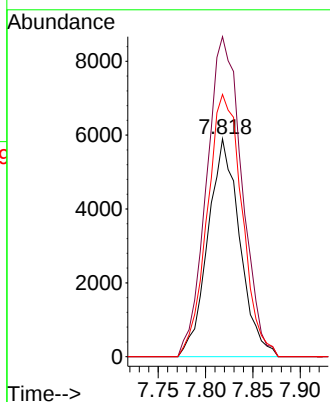
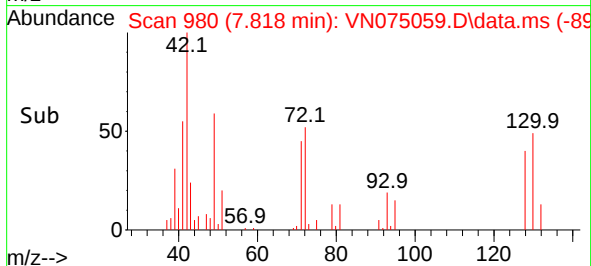
Instrument :
MSVOA_N
ClientSampleId :
221026069-02-VOA



Tgt Ion:128 Resp: 13800
Ion Ratio Lower Upper
128 100
49 162.8 0.0 392.3
130 131.7 0.0 320.2

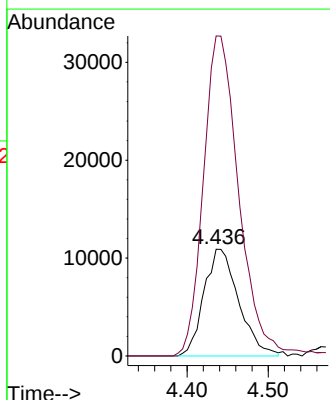
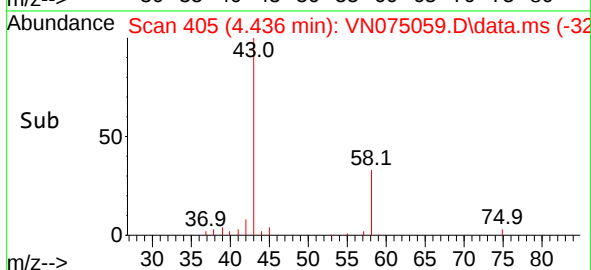
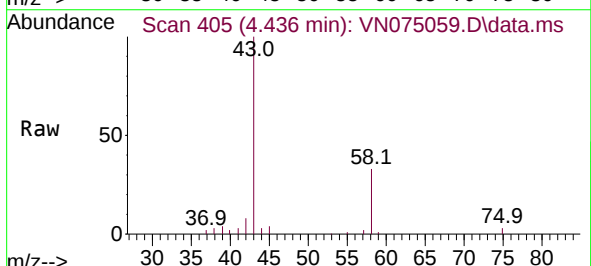
Manual Integrations
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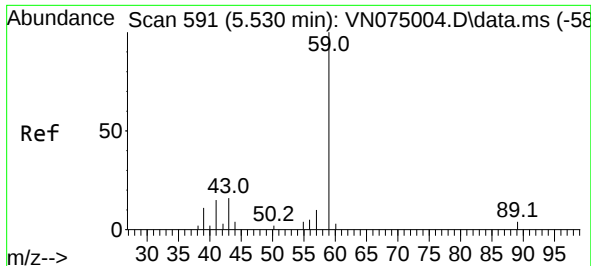
Reviewed By :John Carlone 10/31/2022
Supervised By :Mahesh Dadoda 10/31/2022



#15
Acetone
Concen: 209.904 ug/l
RT: 4.436 min Scan# 405
Delta R.T. -0.018 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

Tgt Ion: 58 Resp: 32450
Ion Ratio Lower Upper
58 100
43 297.2 256.6 384.8





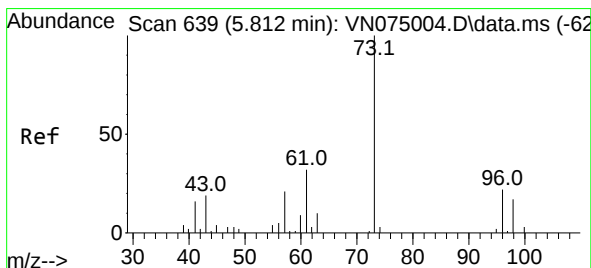
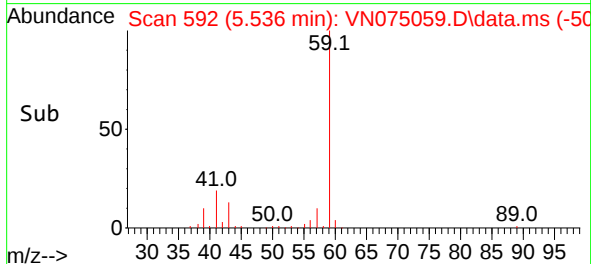
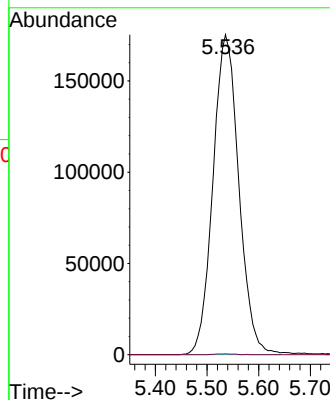
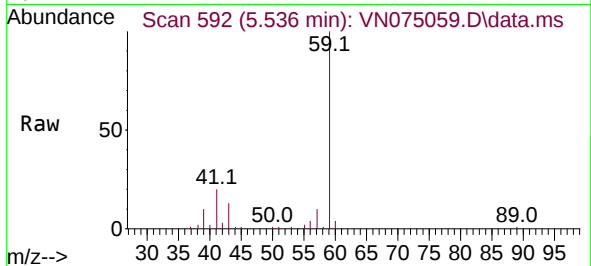
#23
tert-Butyl Alcohol
Concen: 2377.212 ug/l
RT: 5.536 min Scan# 591
Delta R.T. 0.006 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

Instrument :
MSVOA_N
ClientSampleId :
221026069-02-VOA

Tgt Ion: 59 Resp: 608918
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

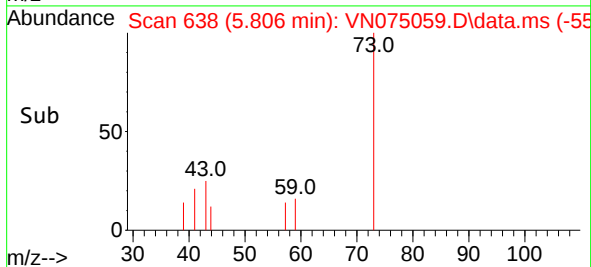
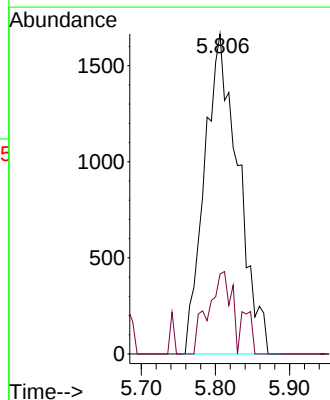
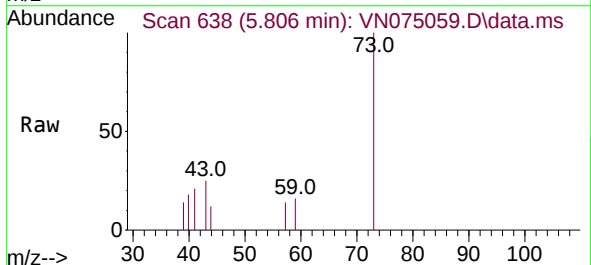
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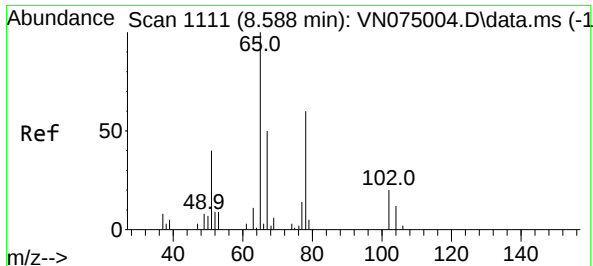
Reviewed By :John Carlone 10/31/2022
Supervised By :Mahesh Dadoda 10/31/2022



#24
Methyl tert-Butyl Ether
Concen: 1.627 ug/l m
RT: 5.806 min Scan# 638
Delta R.T. -0.006 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

Tgt Ion: 73 Resp: 5261
Ion Ratio Lower Upper
73 100
43 13.6 18.1 27.1#





#27

1,2-Dichloroethane-d4

Concen: 34.239 ug/l

RT: 8.583 min Scan# 1111

Delta R.T. -0.006 min

Lab File: VN075059.D

Acq: 28 Oct 2022 14:36

Instrument :

MSVOA_N

ClientSampleId :

221026069-02-VOA

Tgt Ion: 65 Resp: 4320

Ion Ratio Lower Upper

65 100

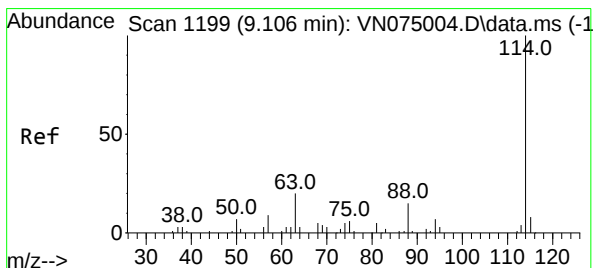
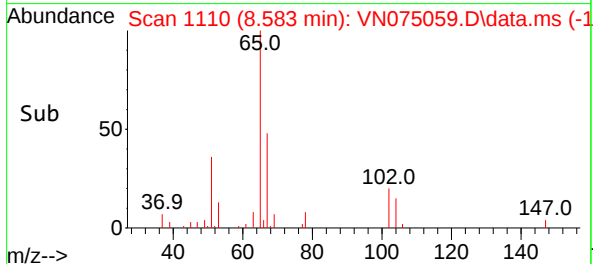
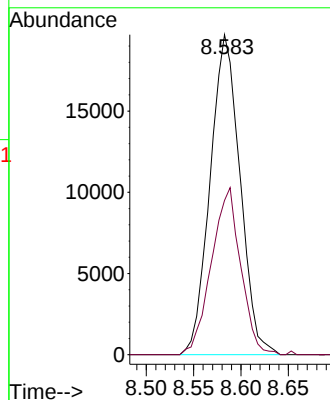
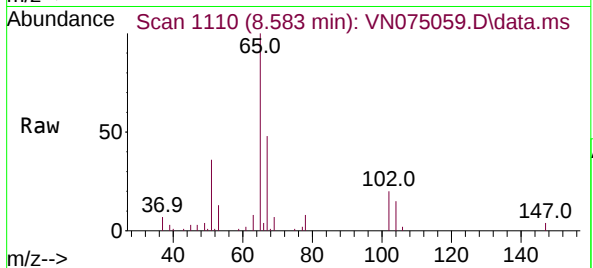
67 51.3 40.2 60.2

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#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN075059.D

Acq: 28 Oct 2022 14:36

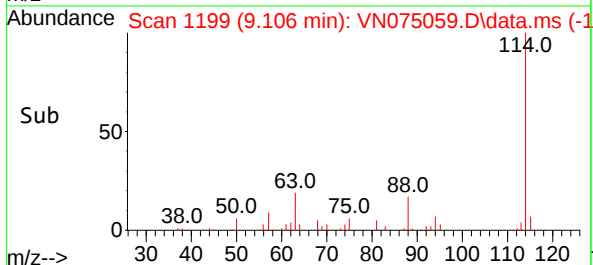
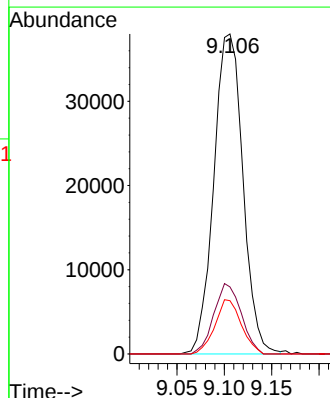
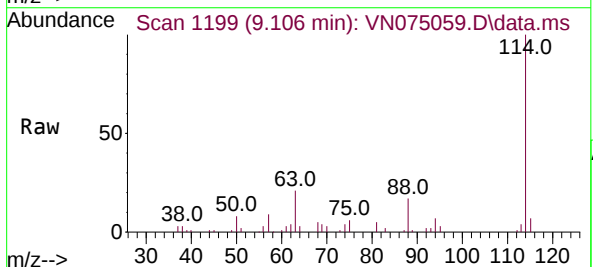
Tgt Ion:114 Resp: 81315

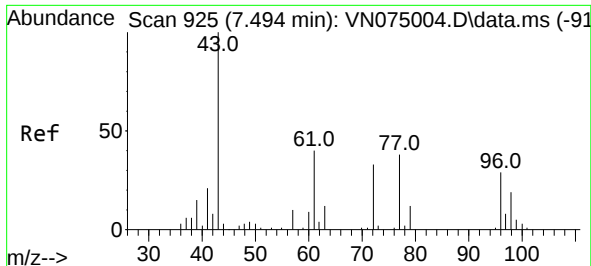
Ion Ratio Lower Upper

114 100

63 20.7 15.8 23.6

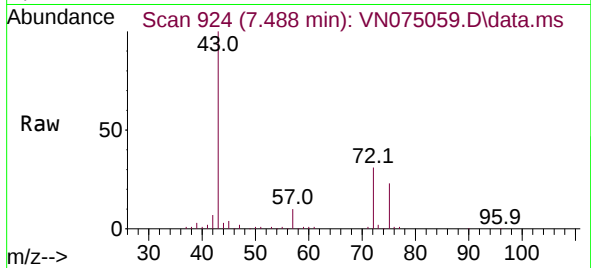
88 15.3 11.6 17.4





#30
2-Butanone
Concen: 374.493 ug/l
RT: 7.488 min Scan# 911
Delta R.T. -0.006 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

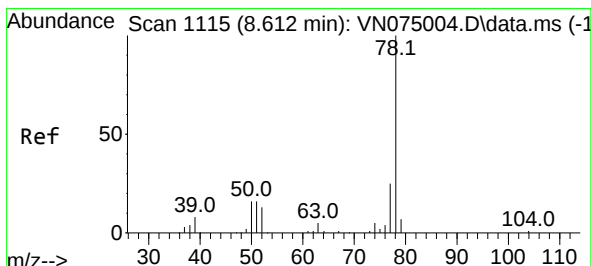
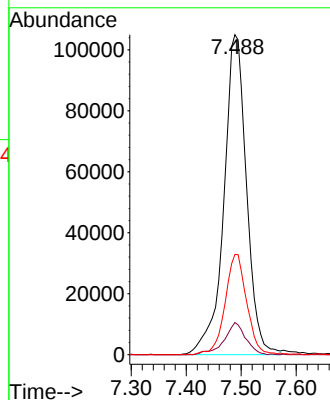
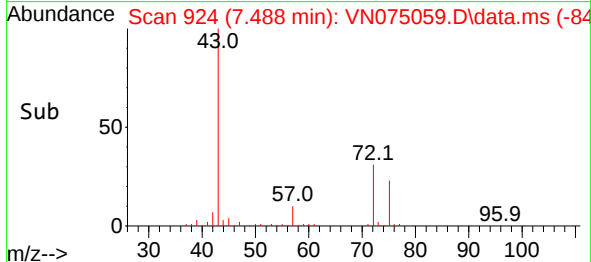
Instrument :
MSVOA_N
ClientSampleId :
221026069-02-VOA



Tgt Ion: 43 Resp: 30110
Ion Ratio Lower Upper
43 100
57 9.0 6.7 10.1
72 29.4 23.2 34.8

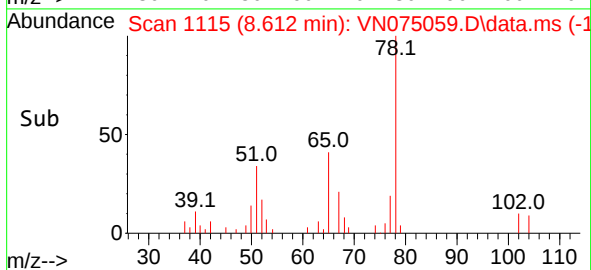
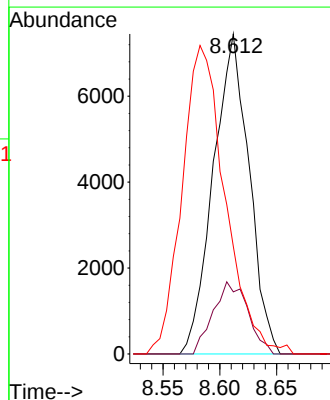
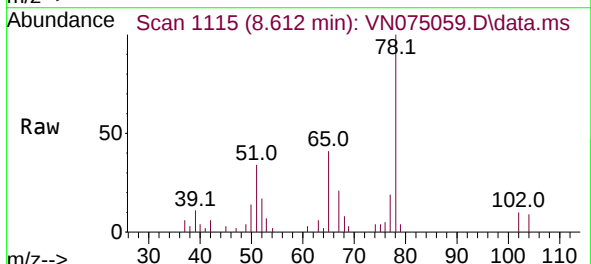
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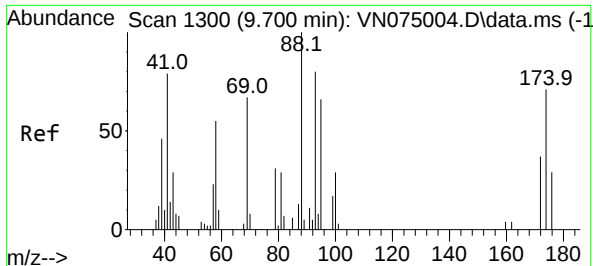
Reviewed By :John Carlone 10/31/2022
Supervised By :Mahesh Dadoda 10/31/2022



#34
Benzene
Concen: 3.824 ug/l
RT: 8.612 min Scan# 1115
Delta R.T. -0.000 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

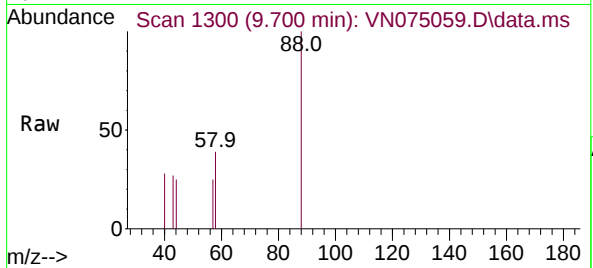
Tgt Ion: 78 Resp: 16307
Ion Ratio Lower Upper
78 100
77 19.4 19.1 28.7
51 31.6 16.0 24.0#





#45
1,4-Dioxane
Concen: 50.171 ug/l
RT: 9.700 min Scan# 1300
Delta R.T. -0.000 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

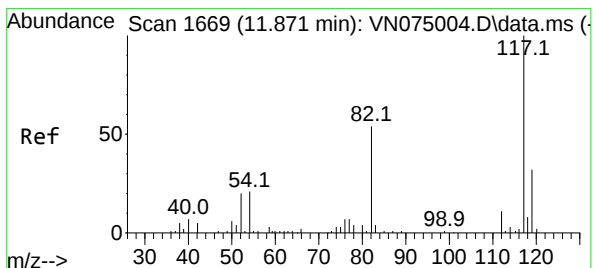
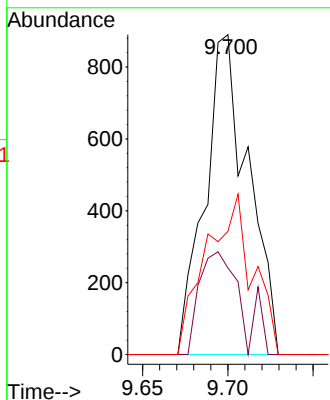
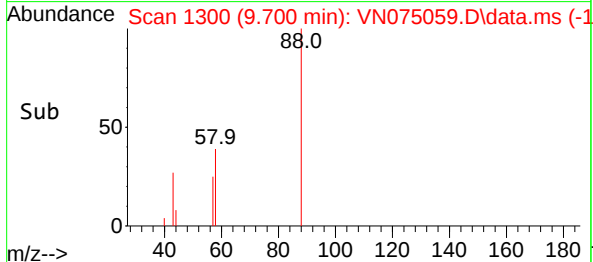
Instrument :
MSVOA_N
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221026069-02-VOA



Tgt Ion: 88 Resp: 1574
Ion Ratio Lower Upper
88 100
43 26.7 25.0 37.6
58 21.7 49.4 74.2

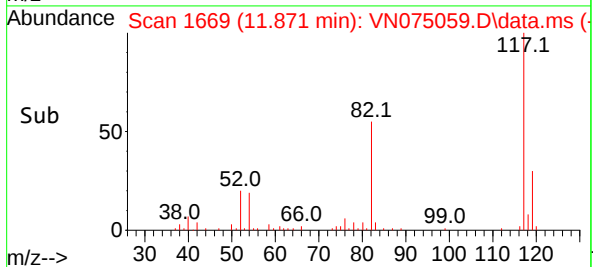
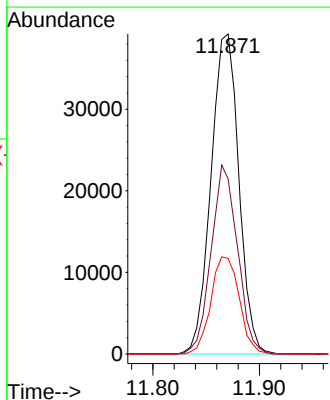
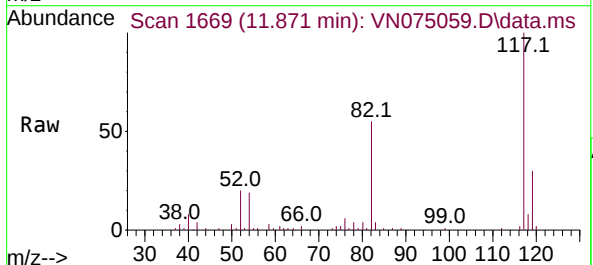
Manual Integrations
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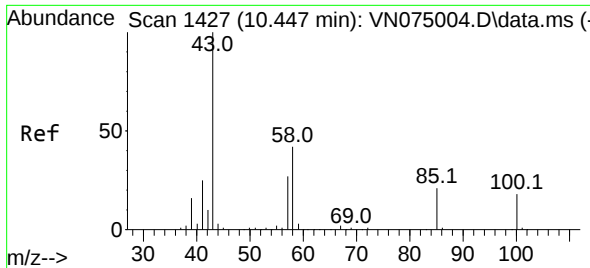
Reviewed By :John Carlone 10/31/2022
Supervised By :Mahesh Dadoda 10/31/2022



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. -0.000 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

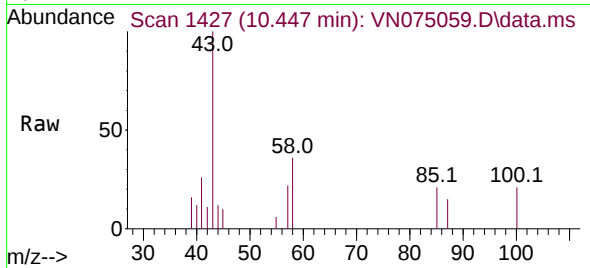
Tgt Ion:117 Resp: 71236
Ion Ratio Lower Upper
117 100
82 55.9 43.6 65.4
119 30.9 25.8 38.6





#58
4-Methyl-2-Pentanone
Concen: 4.270 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. -0.000 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

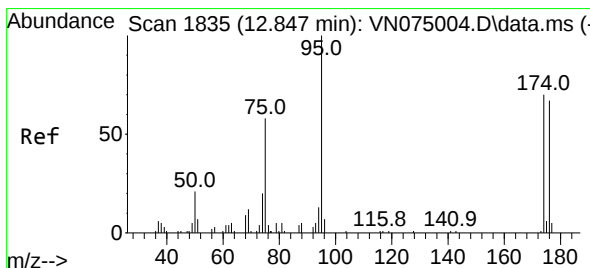
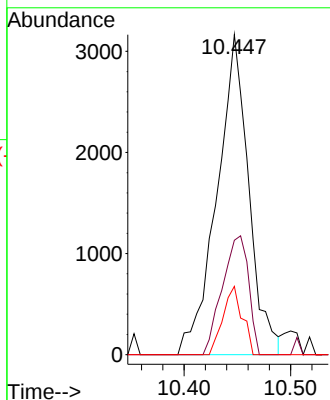
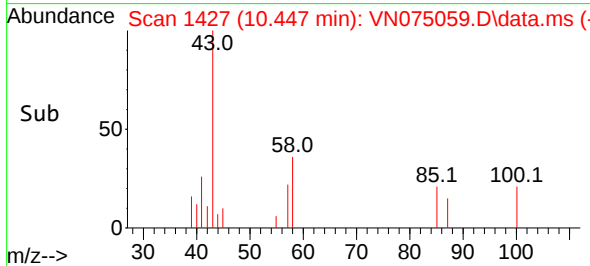
Instrument :
MSVOA_N
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221026069-02-VOA



Tgt Ion: 43 Resp: 656
Ion Ratio Lower Upper
43 100
58 30.6 30.0 45.0
85 13.0 15.0 22.6

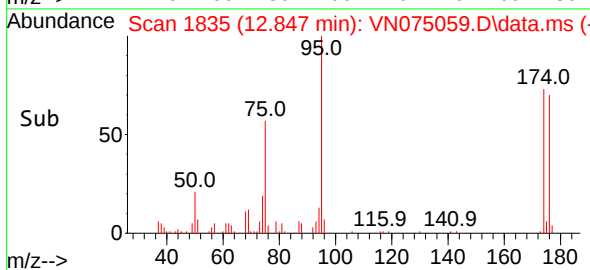
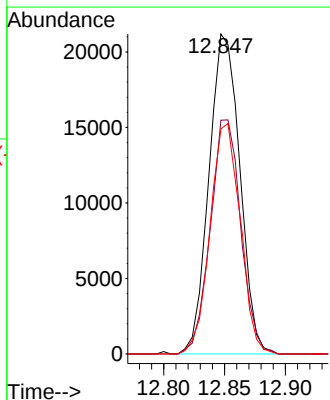
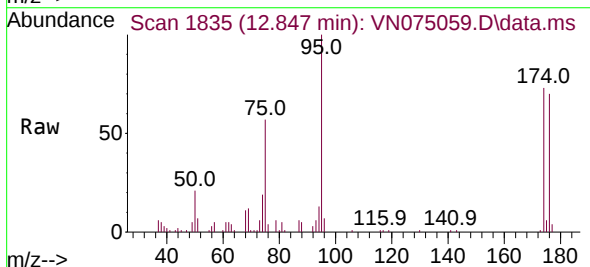
Manual Integrations
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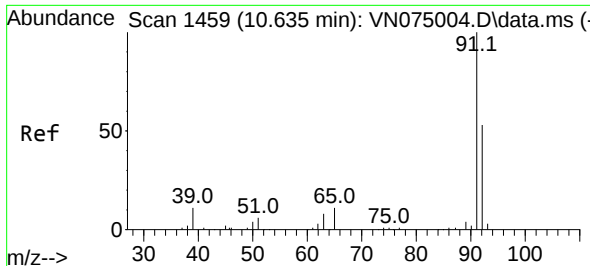
Reviewed By :John Carlone 10/31/2022
Supervised By :Mahesh Dadoda 10/31/2022



#60
4-Bromofluorobenzene
Concen: 26.747 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.000 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

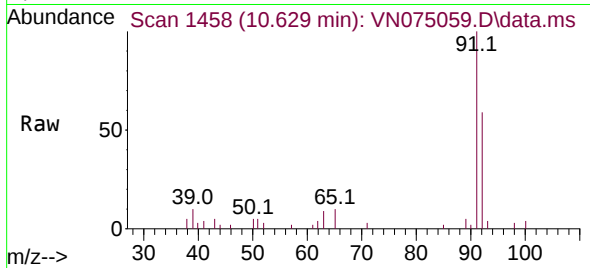
Tgt Ion: 95 Resp: 37437
Ion Ratio Lower Upper
95 100
174 72.1 62.9 94.3
176 70.3 61.0 91.4





#62
Toluene
Concen: 3.549 ug/l
RT: 10.629 min Scan# 1458
Delta R.T. -0.006 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

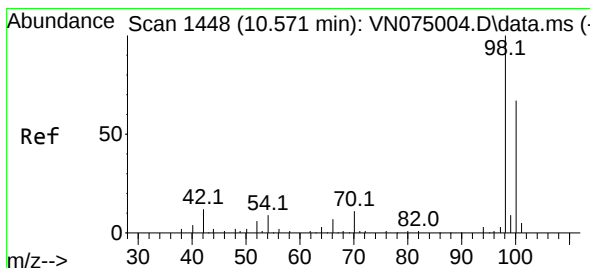
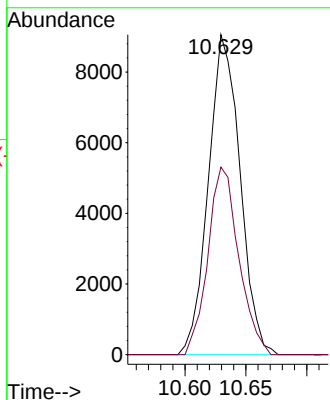
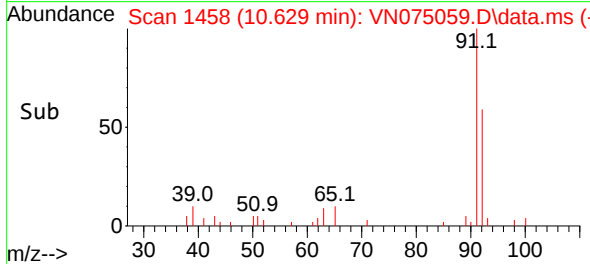
Instrument :
MSVOA_N
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221026069-02-VOA



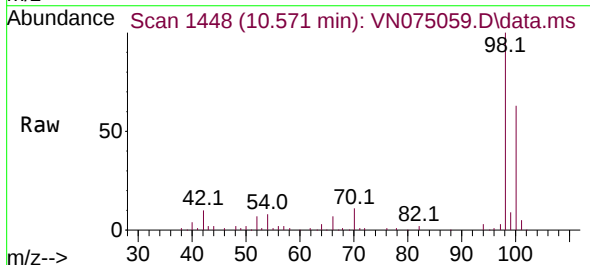
Tgt Ion: 91 Resp: 16369
Ion Ratio Lower Upper
91 100
92 57.2 44.6 67.0

Manual Integrations
APPROVED

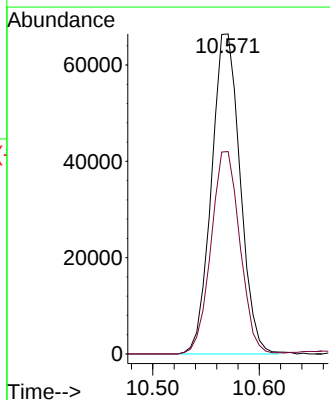
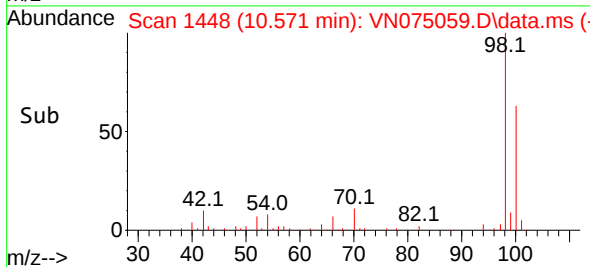
Reviewed By :John Carlone 10/31/2022
Supervised By :Mahesh Dadoda 10/31/2022

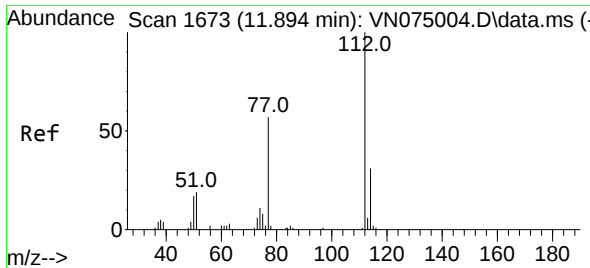


#63
Toluene-d8
Concen: 31.171 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36



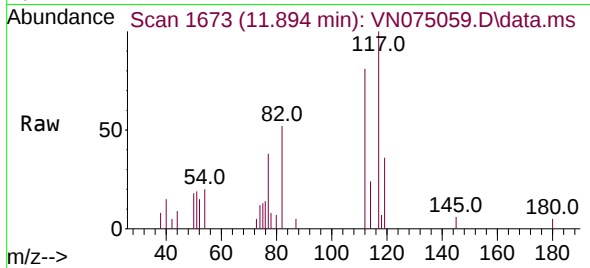
Tgt Ion: 98 Resp: 124193
Ion Ratio Lower Upper
98 100
100 63.8 50.6 76.0





#64
Chlorobenzene
Concen: 1.458 ug/l
RT: 11.894 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

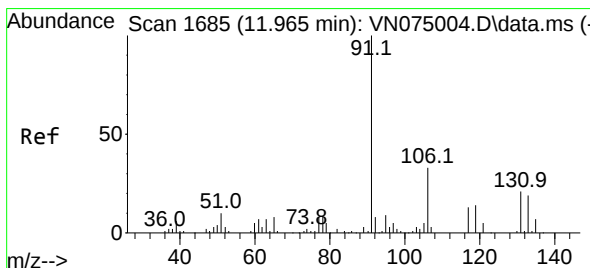
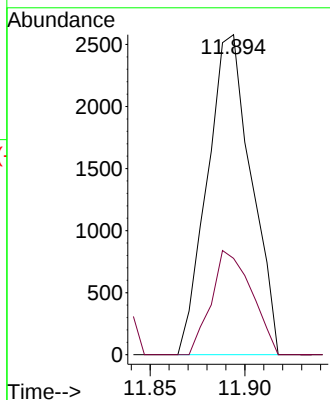
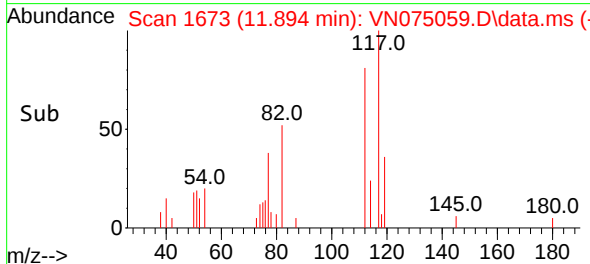
Instrument :
MSVOA_N
ClientSampleId :
221026069-02-VOA



Tgt Ion:112 Resp: 4160
Ion Ratio Lower Upper
112 100
114 30.1 25.8 38.6

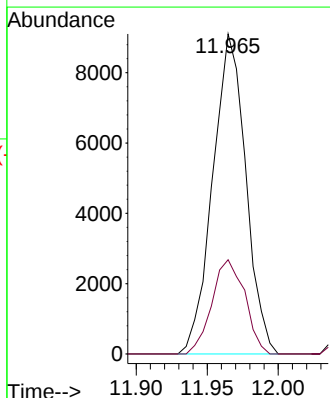
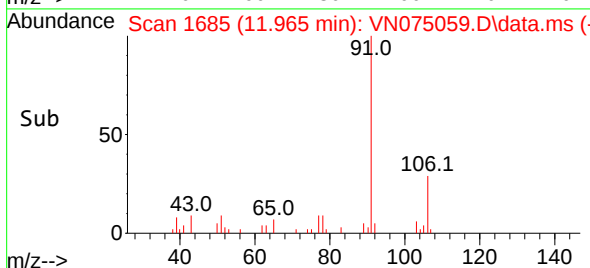
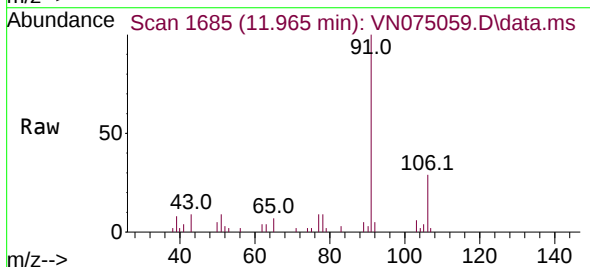
Manual Integrations
APPROVED

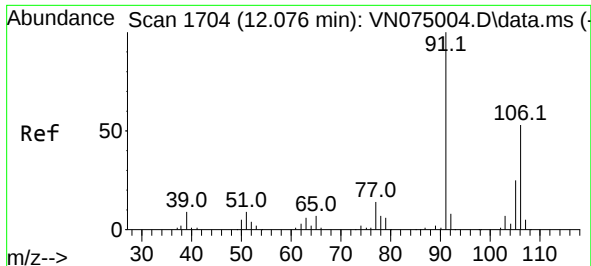
Reviewed By :John Carlone 10/31/2022
Supervised By :Mahesh Dadoda 10/31/2022



#66
Ethyl Benzene
Concen: 2.836 ug/l
RT: 11.965 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

Tgt Ion: 91 Resp: 14742
Ion Ratio Lower Upper
91 100
106 29.5 24.0 36.0





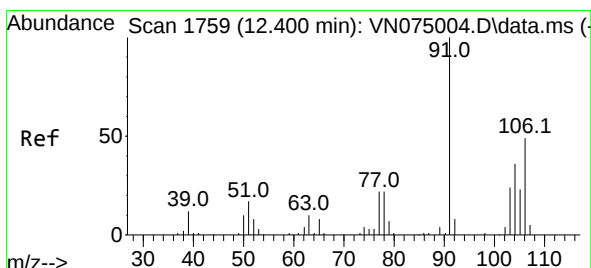
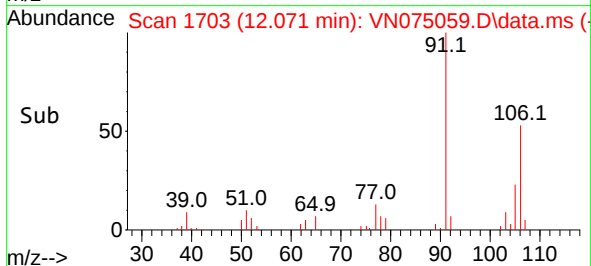
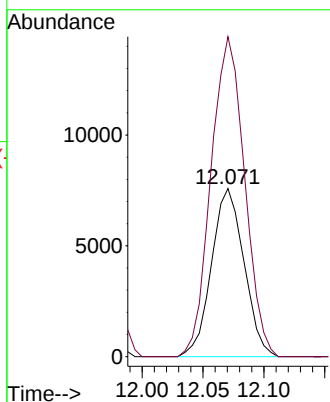
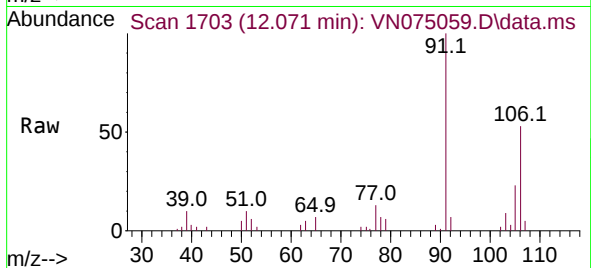
#67
m/p-Xylenes
Concen: 6.756 ug/l
RT: 12.071 min Scan# 1703
Delta R.T. -0.006 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

Instrument :
MSVOA_N
ClientSampleId :
221026069-02-VOA

Tgt Ion:106 Resp: 1408
Ion Ratio Lower Upper
106 100
91 196.8 162.9 244.3

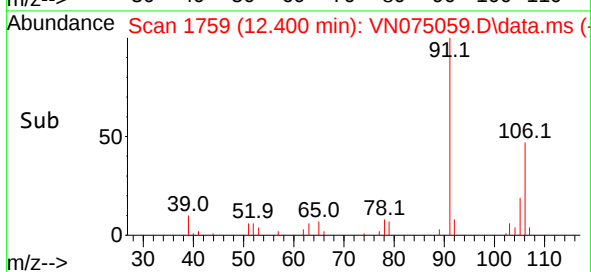
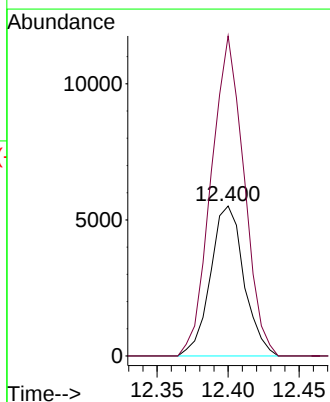
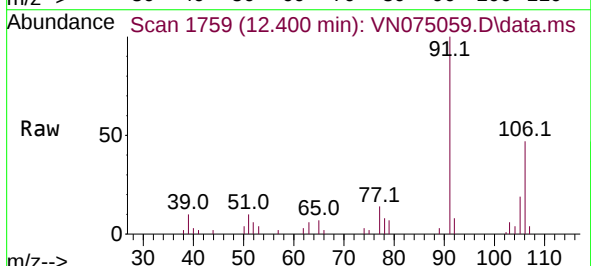
Manual Integrations
APPROVED

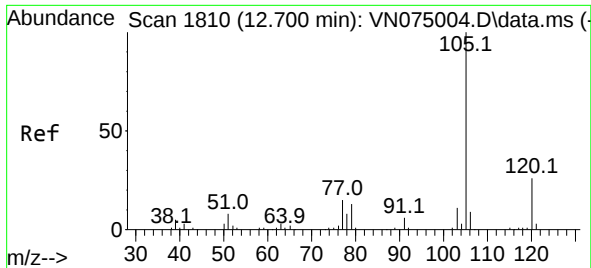
Reviewed By :John Carlone 10/31/2022
Supervised By :Mahesh Dadoda 10/31/2022



#68
o-Xylene
Concen: 4.314 ug/l
RT: 12.400 min Scan# 1759
Delta R.T. -0.000 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

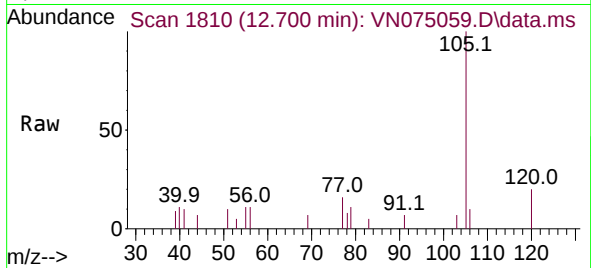
Tgt Ion:106 Resp: 9040
Ion Ratio Lower Upper
106 100
91 209.1 107.7 323.1





#70
Isopropylbenzene
Concen: 1.042 ug/l
RT: 12.700 min Scan# 1810
Delta R.T. -0.000 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

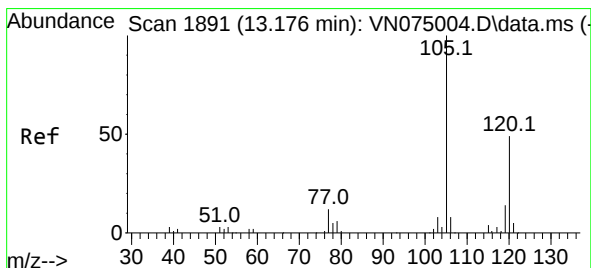
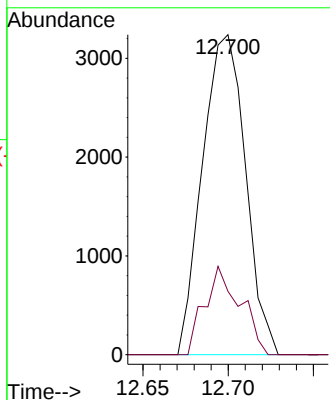
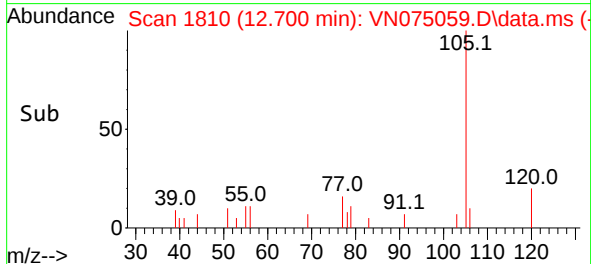
Instrument :
MSVOA_N
ClientSampleId :
221026069-02-VOA



Tgt Ion:105 Resp: 5690
Ion Ratio Lower Upper
105 100
120 22.9 18.3 34.1

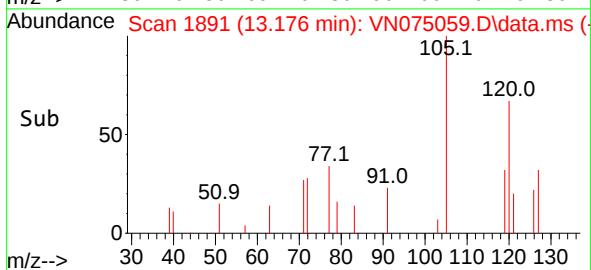
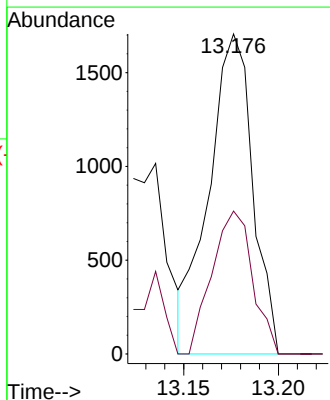
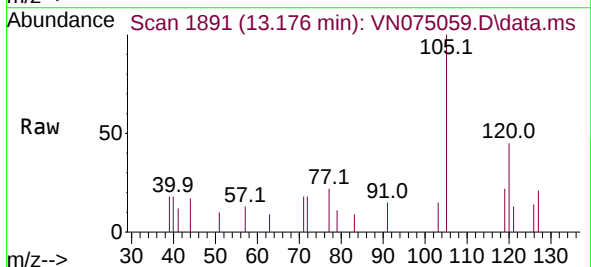
Manual Integrations
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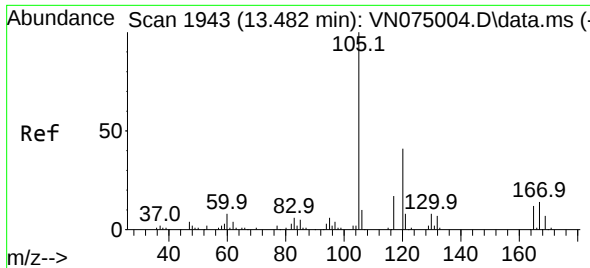
Reviewed By :John Carlone 10/31/2022
Supervised By :Mahesh Dadoda 10/31/2022



#76
1,3,5-Trimethylbenzene
Concen: 0.594 ug/l
RT: 13.176 min Scan# 1891
Delta R.T. -0.000 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

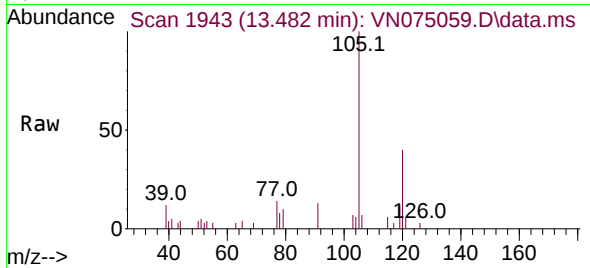
Tgt Ion:105 Resp: 2747
Ion Ratio Lower Upper
105 100
120 41.3 0.0 93.8





#80
1,2,4-Trimethylbenzene
Concen: 2.223 ug/l
RT: 13.482 min Scan# 1943
Delta R.T. -0.000 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

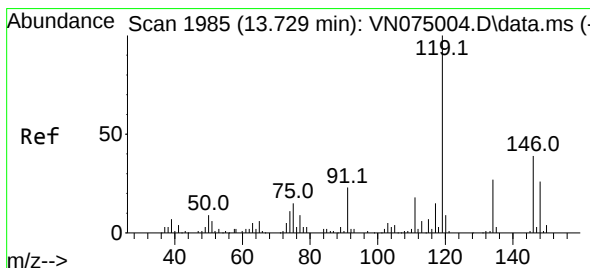
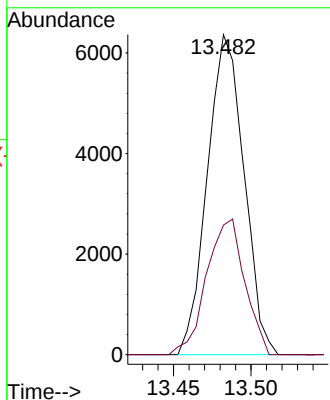
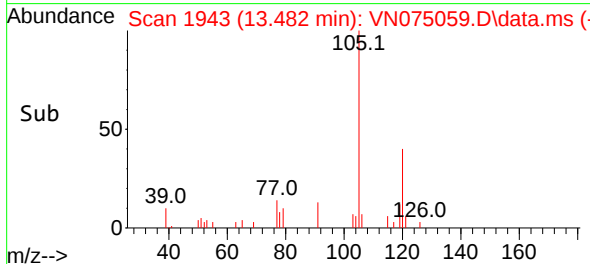
Instrument :
MSVOA_N
ClientSampleId :
221026069-02-VOA



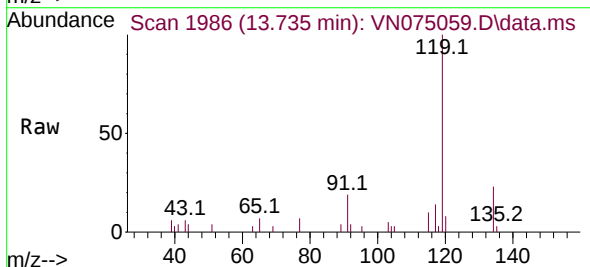
Tgt Ion:105 Resp: 10460
Ion Ratio Lower Upper
105 100
120 44.1 0.0 0.23

Manual Integrations
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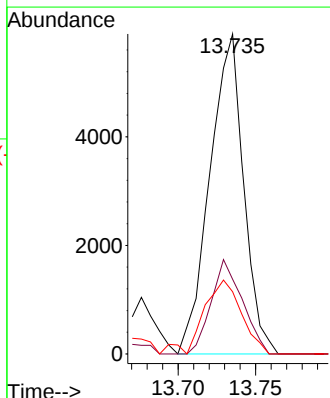
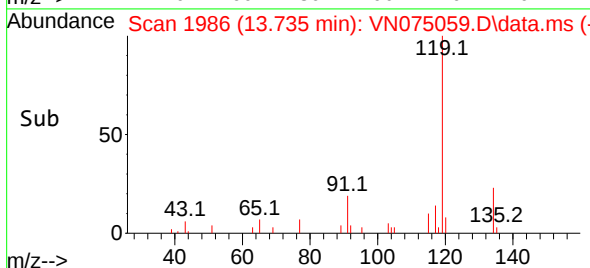
Reviewed By :John Carlone 10/31/2022
Supervised By :Mahesh Dadoda 10/31/2022

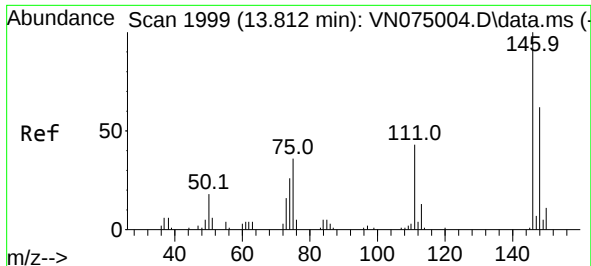


#82
p-Isopropyltoluene
Concen: 1.826 ug/l
RT: 13.735 min Scan# 1986
Delta R.T. 0.006 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36



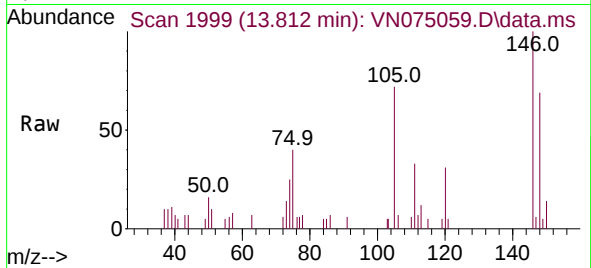
Tgt Ion:119 Resp: 8942
Ion Ratio Lower Upper
119 100
134 27.3 0.0 51.8
91 24.7 0.0 50.4





#84
1,4-Dichlorobenzene
Concen: 2.645 ug/l
RT: 13.812 min Scan# 1999
Delta R.T. -0.000 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36

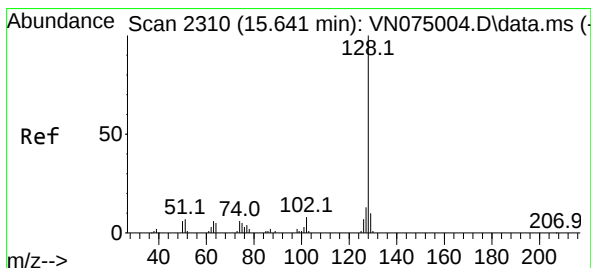
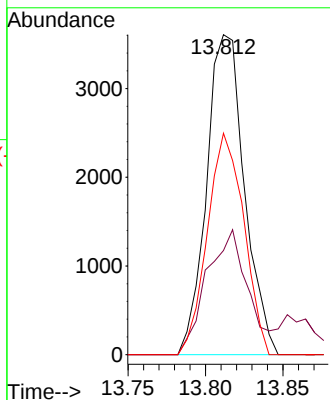
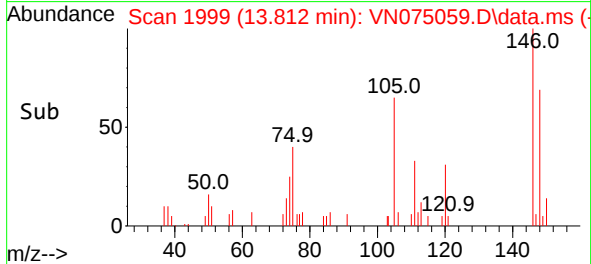
Instrument :
MSVOA_N
ClientSampleId :
221026069-02-VOA



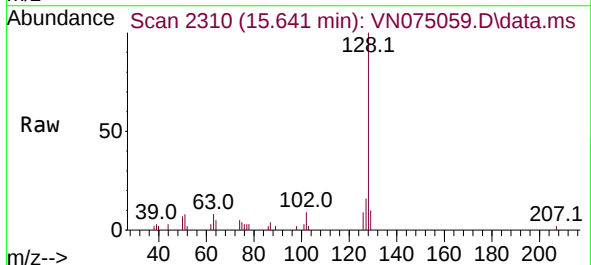
Tgt Ion:146 Resp: 613
Ion Ratio Lower Upper
146 100
111 42.3 19.5 58.5
148 66.6 31.1 93.5

Manual Integrations
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Reviewed By :John Carlone 10/31/2022
Supervised By :Mahesh Dadoda 10/31/2022



#91
Naphthalene
Concen: 5.452 ug/l
RT: 15.641 min Scan# 2310
Delta R.T. -0.000 min
Lab File: VN075059.D
Acq: 28 Oct 2022 14:36



Tgt Ion:128 Resp: 22685
Ion Ratio Lower Upper
128 100
127 13.2 10.7 16.1
129 4.9 9.0 13.6#

