

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111023\
 Data File : VN080052.D
 Acq On : 10 Nov 2023 14:53
 Operator : JC\MD
 Sample : 05310-01RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SEMI-ANNUAL-CONDENSATERE

Quant Time: Nov 10 23:58:14 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 09 04:02:05 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 11/13/2023
 Supervised By :Mahesh Dadoda 11/13/2023

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

Internal Standards						
1) Bromochloromethane	7.818	128	106835	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	641167	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	598862	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	259800	28.970	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.567%		
60) 4-Bromofluorobenzene	12.853	95	295339	30.839	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.800%		
63) Toluene-d8	10.571	98	781802	27.552	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	91.833%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.959	74	2725m	0.690	ug/l	
15) Acetone	4.430	58	23734	20.752	ug/l	90
16) Carbon Disulfide	4.712	76	9662	0.514	ug/l #	90
18) Methylene Chloride	5.271	84	7450m	1.010	ug/l	
23) tert-Butyl Alcohol	5.518	59	353043	386.151	ug/l #	100
25) Chloroform	7.965	83	241824	17.473	ug/l	90
30) 2-Butanone	7.483	43	120079	22.849	ug/l #	88
34) Benzene	8.606	78	200243	6.126	ug/l #	88
41) Bromodichloromethane	9.894	83	7041m	0.608	ug/l	
45) 1,4-Dioxane	9.694	88	10835	87.402	ug/l #	70
58) 4-Methyl-2-Pentanone	10.447	43	35336	3.532	ug/l	98
62) Toluene	10.635	91	779421	22.503	ug/l	98
64) Chlorobenzene	11.894	112	62181	3.008	ug/l	94
66) Ethyl Benzene	11.965	91	326853	8.980	ug/l	99
67) m/p-Xylenes	12.071	106	165165	12.189	ug/l	97
68) o-Xylene	12.400	106	110053	8.473	ug/l	98
70) Isopropylbenzene	12.700	105	47615	1.470	ug/l	100
74) n-propylbenzene	13.041	91	25069	0.647	ug/l	97
76) 1,3,5-Trimethylbenzene	13.176	105	87476	3.264	ug/l	97
80) 1,2,4-Trimethylbenzene	13.488	105	242218	9.218	ug/l	100
81) sec-Butylbenzene	13.612	105	15274m	0.516	ug/l	
82) p-Isopropyltoluene	13.735	119	1146210	47.644	ug/l	99
84) 1,4-Dichlorobenzene	13.818	146	333007	23.377	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	12296	0.887	ug/l	96
91) Naphthalene	15.647	128	756727	36.710	ug/l	98

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

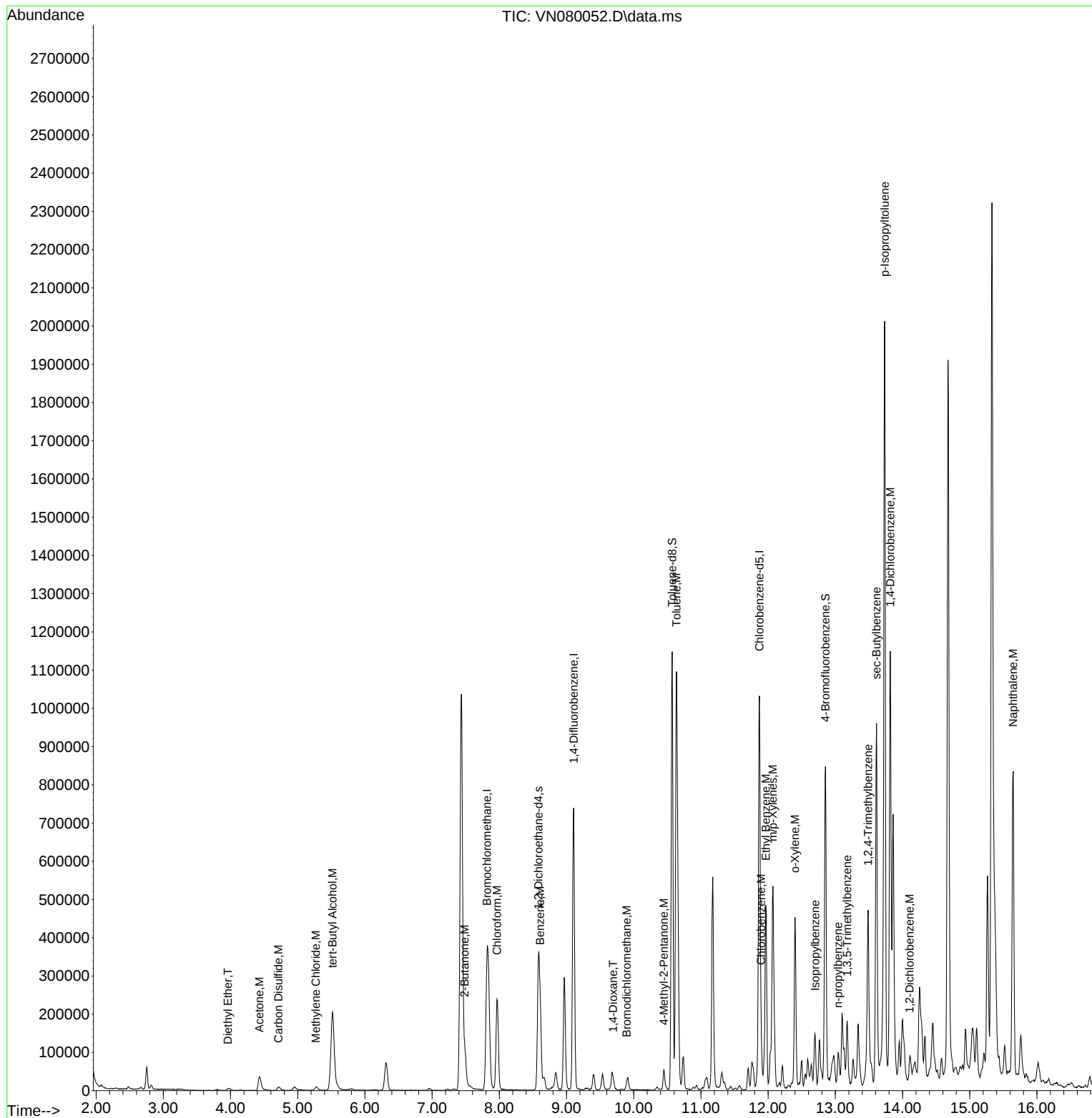
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111023\
Data File : VN080052.D
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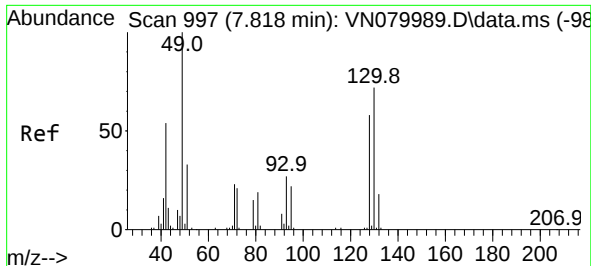
Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATERE

Quant Time: Nov 10 23:58:14 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Nov 09 04:02:05 2023
Response via : Initial Calibration

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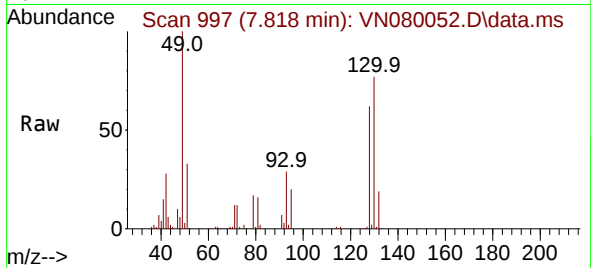
Reviewed By :John Carlone 11/13/2023
Supervised By :Mahesh Dadoda 11/13/2023





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.006 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

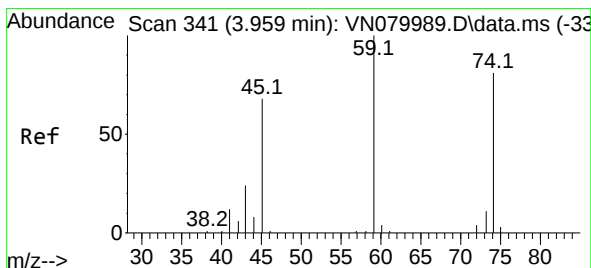
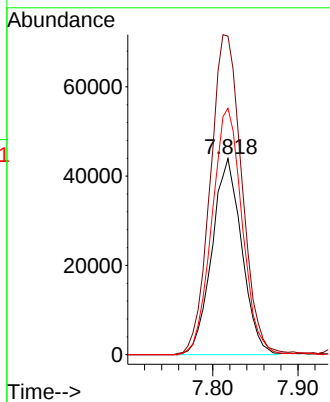
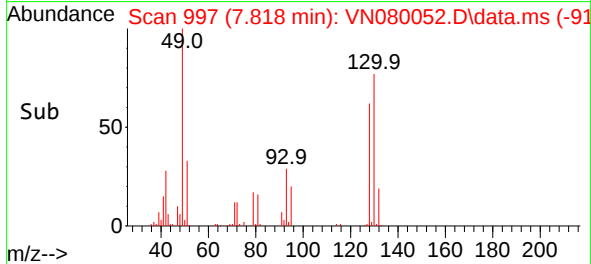
Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATERE



Tgt Ion:128 Resp: 10683
Ion Ratio Lower Upper
128 100
49 173.0 0.0 468.5
130 127.8 0.0 320.7

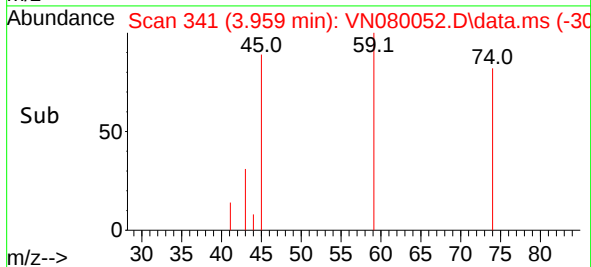
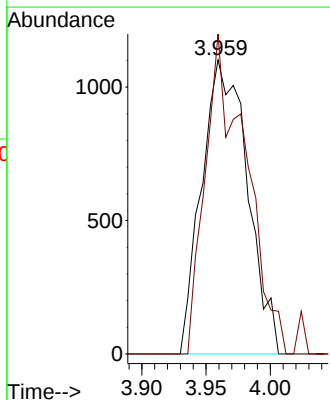
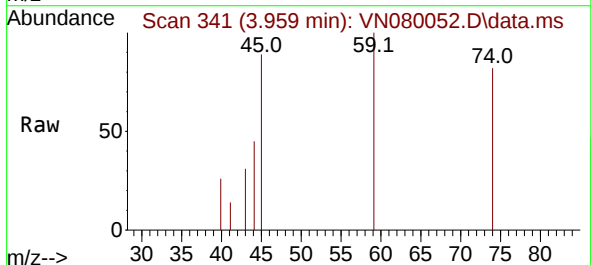
Manual Integrations
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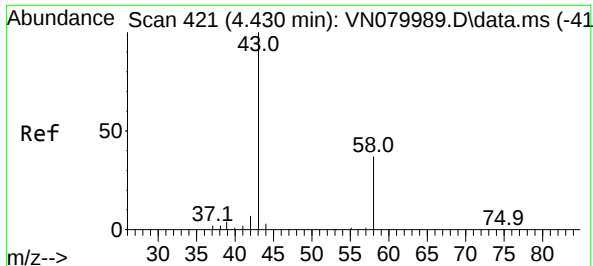
Reviewed By :John Carlone 11/13/2023
Supervised By :Mahesh Dadoda 11/13/2023



#8
Diethyl Ether
Concen: 0.690 ug/l m
RT: 3.959 min Scan# 341
Delta R.T. -0.006 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

Tgt Ion: 74 Resp: 2725
Ion Ratio Lower Upper
74 100
45 49.7 19.0 171.0





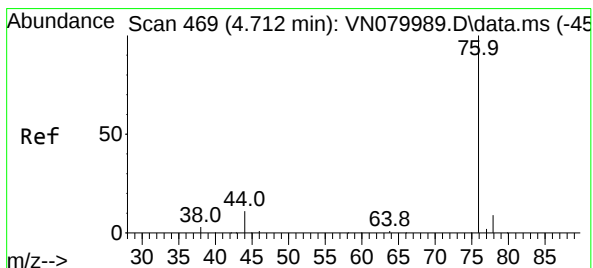
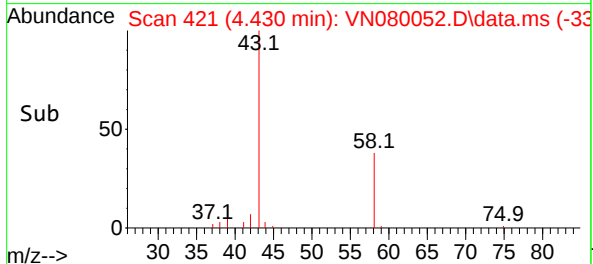
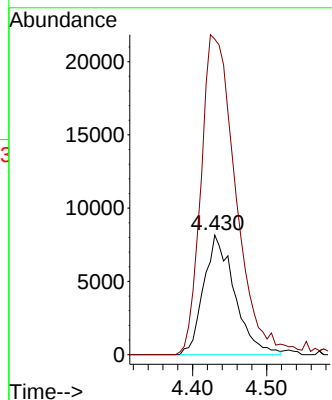
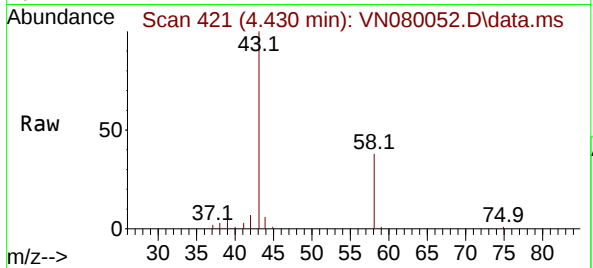
#15
Acetone
Concen: 20.752 ug/l
RT: 4.430 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATERE

Tgt Ion: 58 Resp: 23734
Ion Ratio Lower Upper
58 100
43 261.8 225.2 337.8

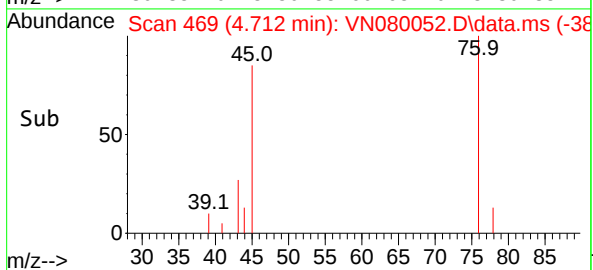
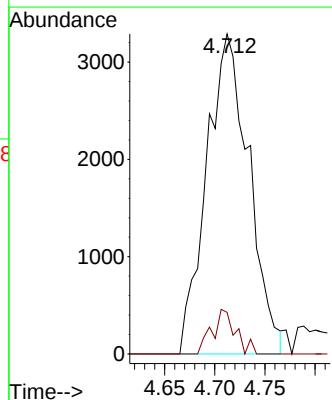
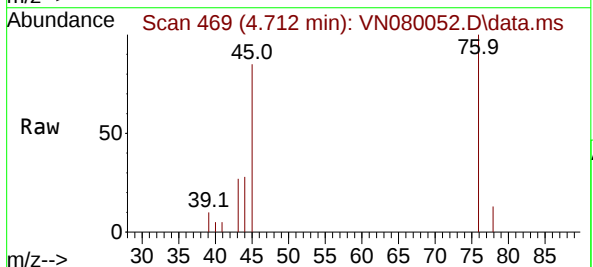
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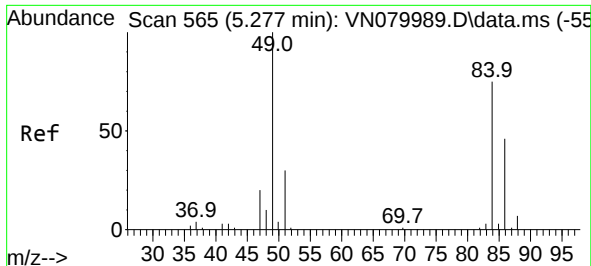
Reviewed By :John Carlone 11/13/2023
Supervised By :Mahesh Dadoda 11/13/2023



#16
Carbon Disulfide
Concen: 0.514 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.006 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

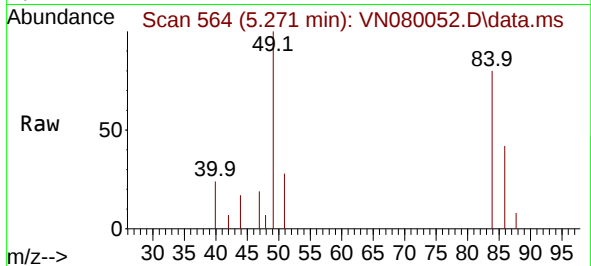
Tgt Ion: 76 Resp: 9662
Ion Ratio Lower Upper
76 100
78 13.0 7.5 11.3#





#18
Methylene Chloride
Concen: 1.010 ug/l m
RT: 5.271 min Scan# 50
Delta R.T. -0.012 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

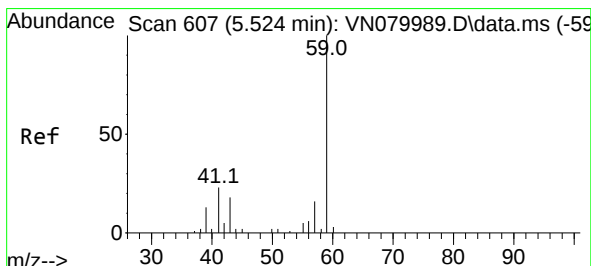
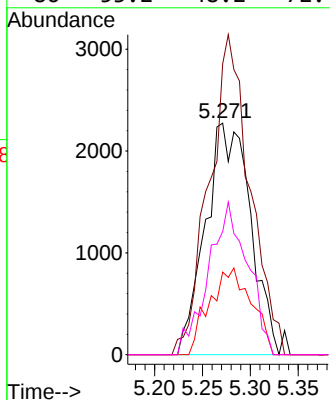
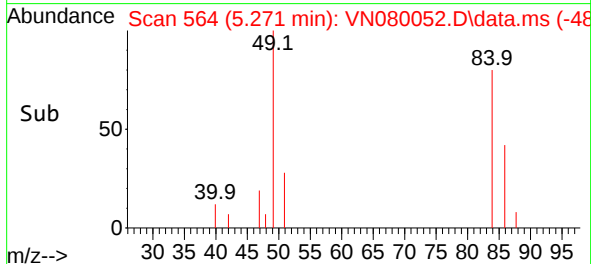
Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATERE



Tgt Ion: 84 Resp: 7450
Ion Ratio Lower Upper
84 100
49 125.6 100.9 151.3
51 35.7 29.4 44.2
86 53.2 48.2 72.4

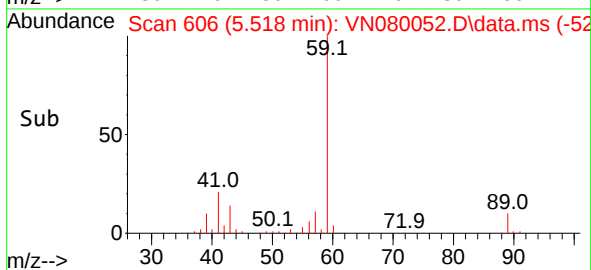
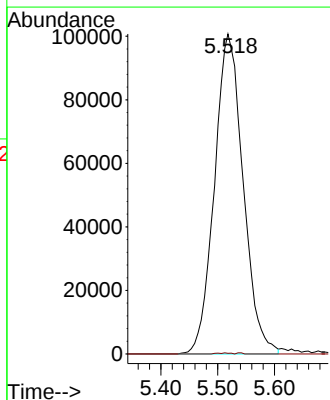
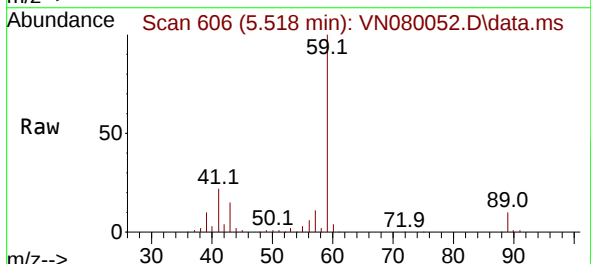
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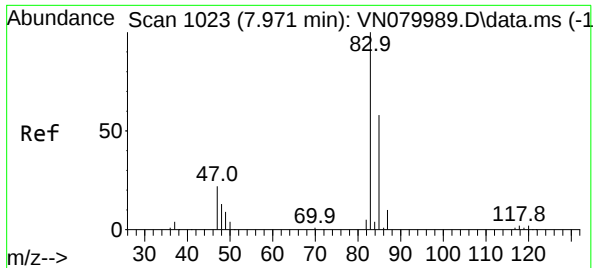
Reviewed By :John Carlone 11/13/2023
Supervised By :Mahesh Dadoda 11/13/2023



#23
tert-Butyl Alcohol
Concen: 386.151 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

Tgt Ion: 59 Resp: 353043
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0#





#25

Chloroform

Concen: 17.473 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN080052.D

Acq: 10 Nov 2023 14:53

Instrument :

MSVOA_N

ClientSampleId :

SEMI-ANNUAL-CONDENSATERE

Tgt Ion: 83 Resp: 241824

Ion Ratio Lower Upper

83 100

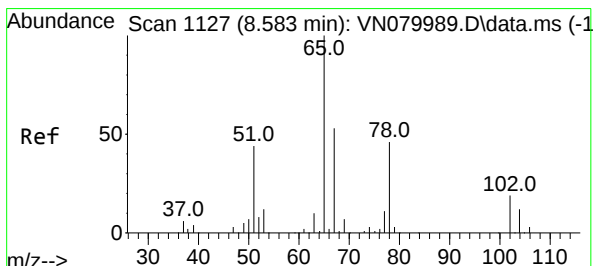
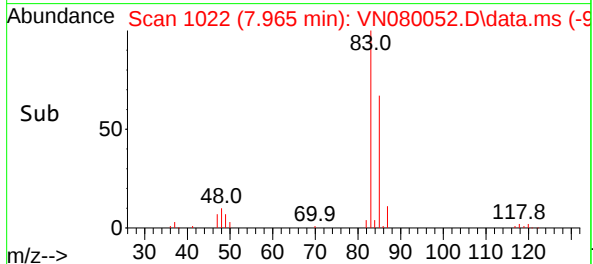
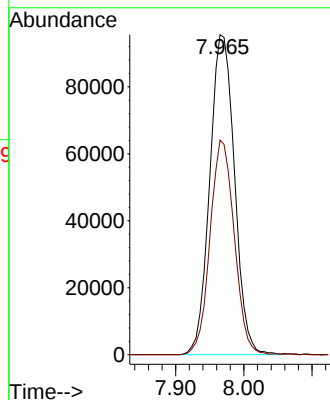
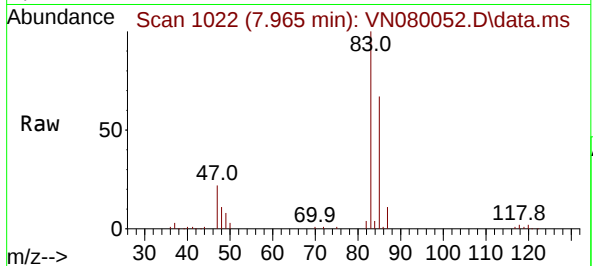
85 67.0 47.4 71.2

Manual Integrations

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Reviewed By :John Carlone 11/13/2023

Supervised By :Mahesh Dadoda 11/13/2023



#27

1,2-Dichloroethane-d4

Concen: 28.970 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.001 min

Lab File: VN080052.D

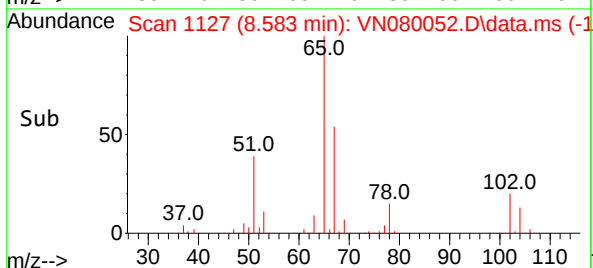
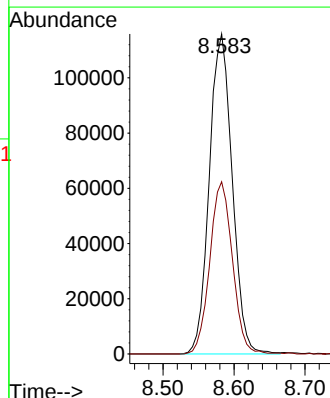
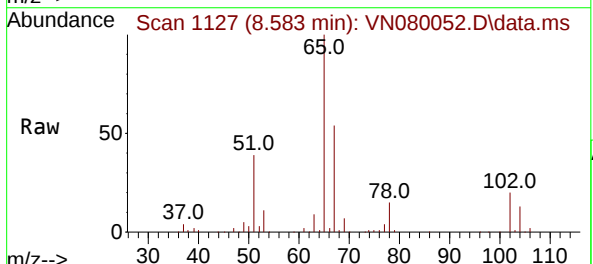
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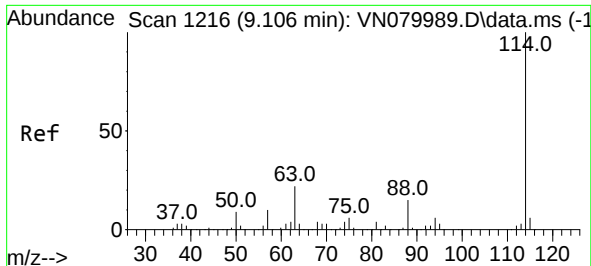
Tgt Ion: 65 Resp: 259800

Ion Ratio Lower Upper

65 100

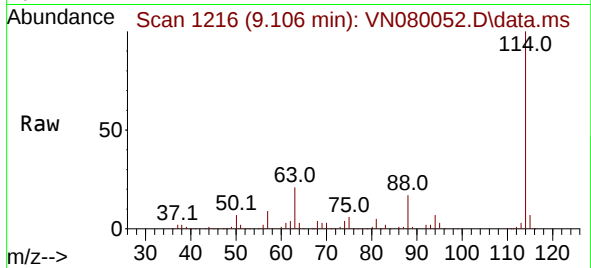
67 53.0 42.1 63.1





#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 114
Delta R.T. 0.000 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

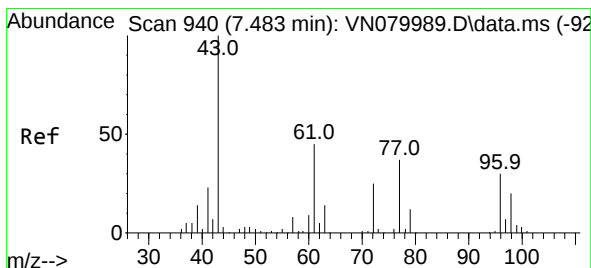
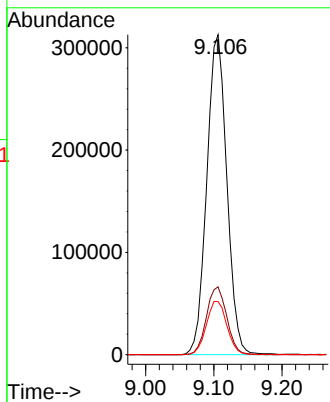
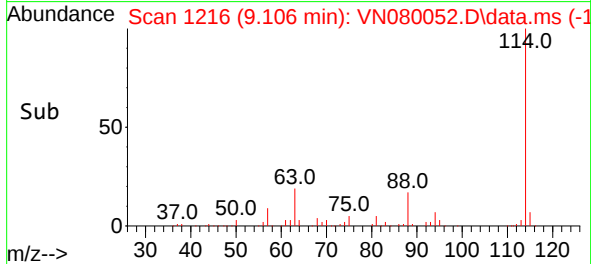
Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATERE



Tgt Ion: 114 Resp: 64116
Ion Ratio Lower Upper
114 100
63 21.4 18.1 27.1
88 17.1 12.2 18.2

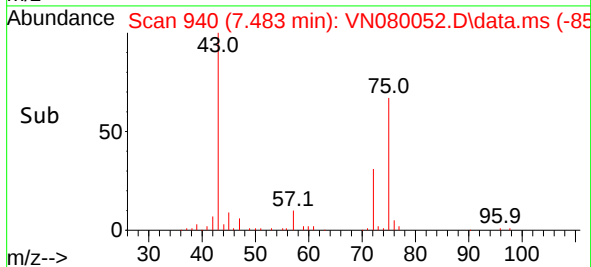
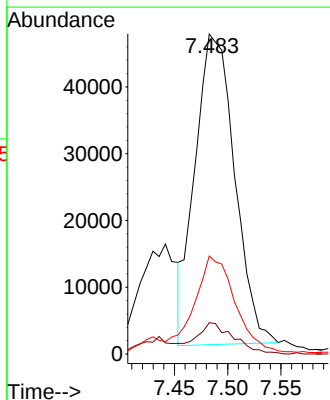
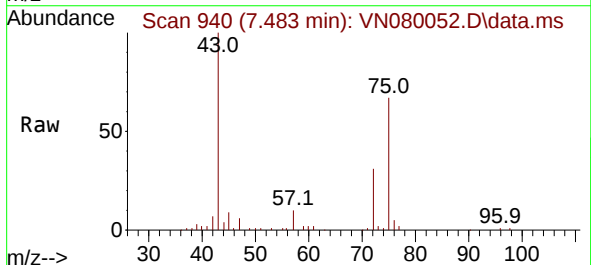
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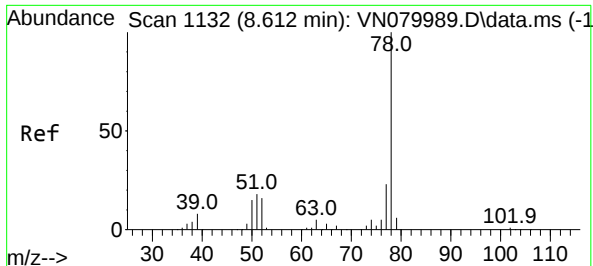
Reviewed By :John Carlone 11/13/2023
Supervised By :Mahesh Dadoda 11/13/2023



#30
2-Butanone
Concen: 22.849 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.005 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

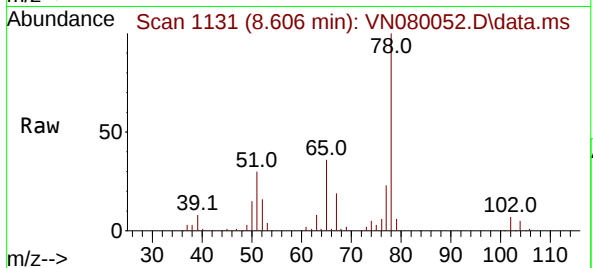
Tgt Ion: 43 Resp: 120079
Ion Ratio Lower Upper
43 100
57 9.2 6.4 9.6
72 33.3 20.7 31.1#





#34
Benzene
Concen: 6.126 ug/l
RT: 8.606 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

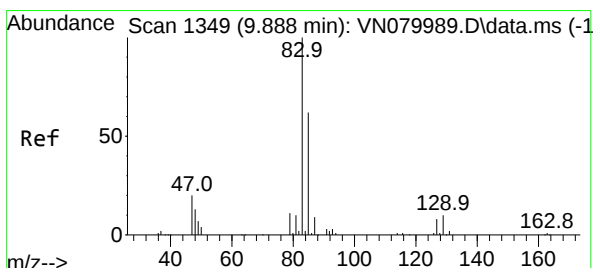
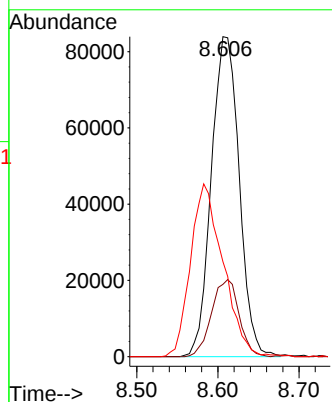
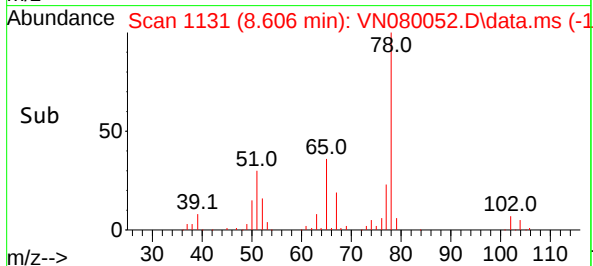
Instrument : MSVOA_N
ClientSampleId : SEMI-ANNUAL-CONDENSATERE



Tgt Ion: 78 Resp: 20024
Ion Ratio Lower Upper
78 100
77 22.6 19.7 29.5
51 29.3 15.8 23.6

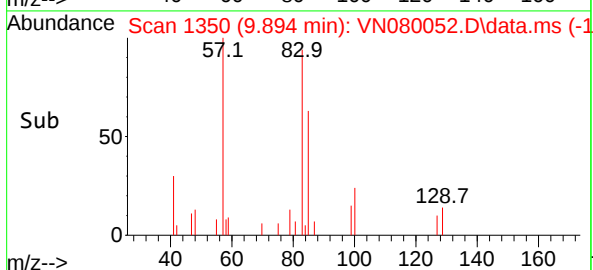
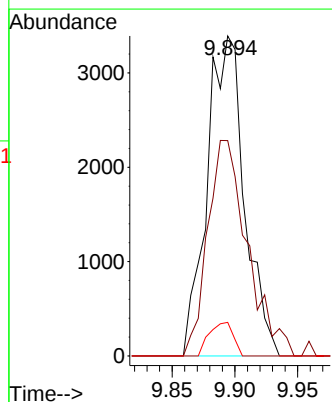
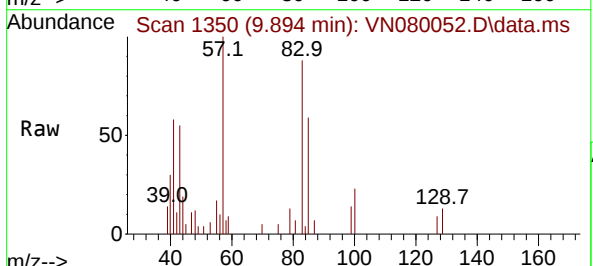
Manual Integrations
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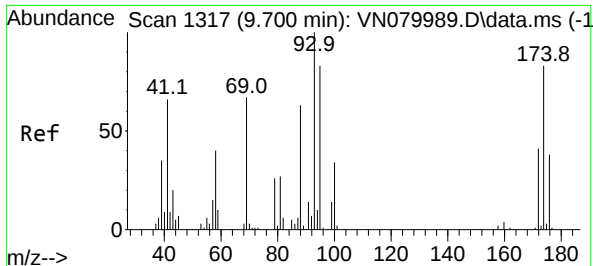
Reviewed By :John Carlone 11/13/2023
Supervised By :Mahesh Dadoda 11/13/2023



#41
Bromodichloromethane
Concen: 0.608 ug/l m
RT: 9.894 min Scan# 1350
Delta R.T. 0.006 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

Tgt Ion: 83 Resp: 7041
Ion Ratio Lower Upper
83 100
85 67.3 50.3 75.5
127 10.5 6.8 10.2





#45

1,4-Dioxane

Concen: 87.402 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.012 min

Lab File: VN080052.D

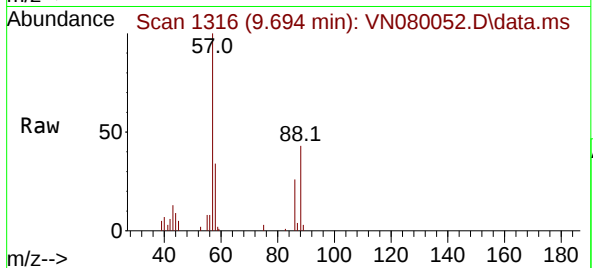
Acq: 10 Nov 2023 14:53

Instrument :

MSVOA_N

ClientSampleId :

SEMI-ANNUAL-CONDENSATERE



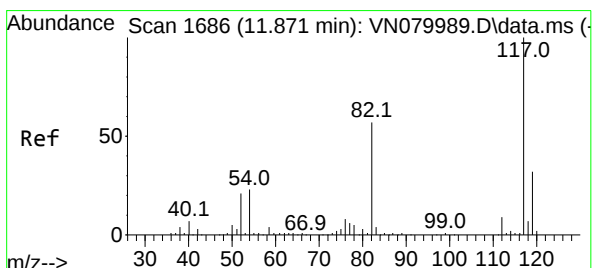
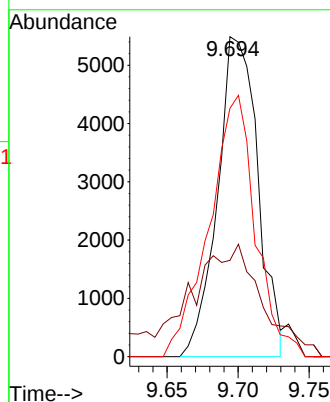
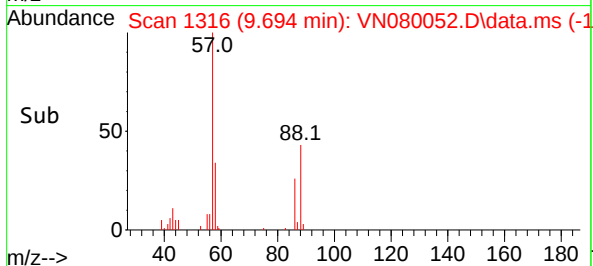
Tgt Ion:	88	Resp:	1083
Ion Ratio	Lower	Upper	
88	100		
43	15.2	28.7	43.1
58	93.9	56.9	85.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/13/2023

Supervised By :Mahesh Dadoda 11/13/2023



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

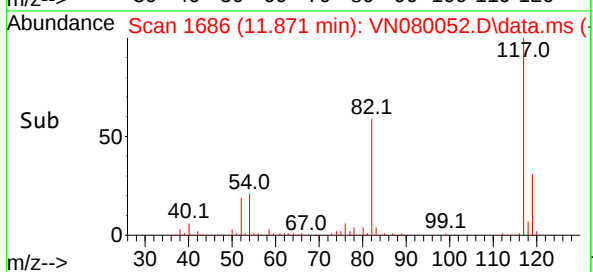
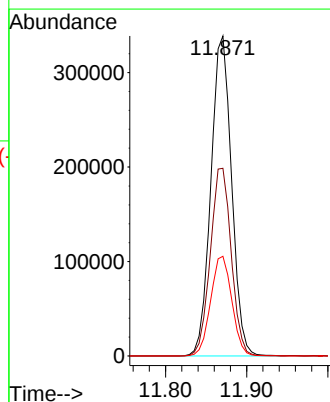
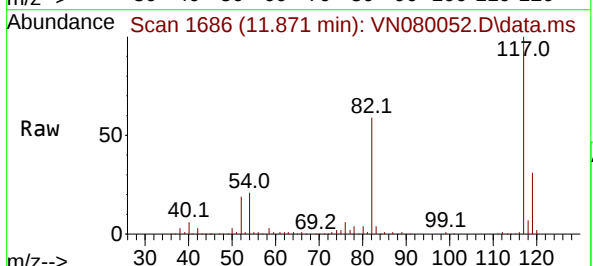
RT: 11.871 min Scan# 1686

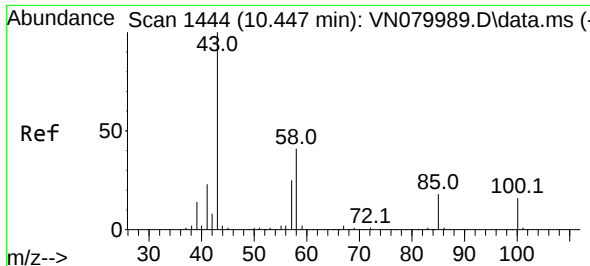
Delta R.T. 0.001 min

Lab File: VN080052.D

Acq: 10 Nov 2023 14:53

Tgt Ion:	117	Resp:	598862
Ion Ratio	Lower	Upper	
117	100		
82	59.5	46.2	69.2
119	32.0	25.2	37.8





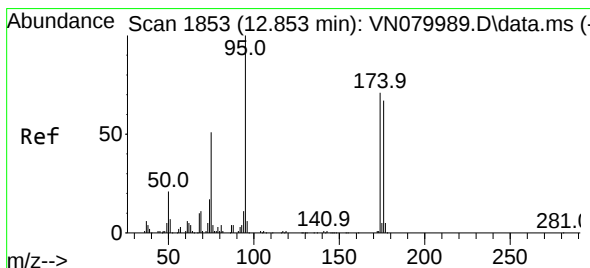
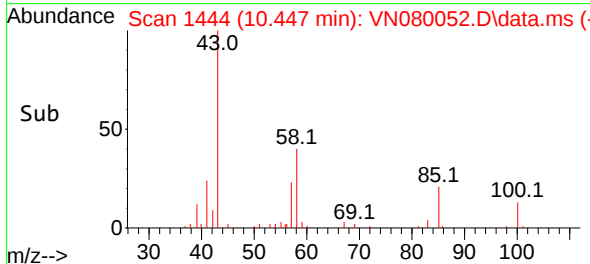
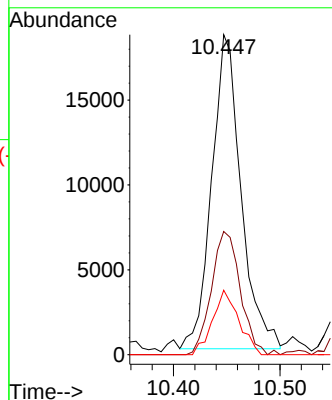
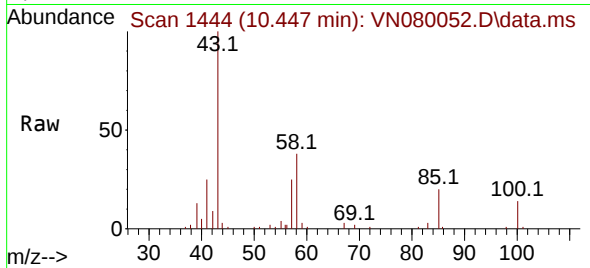
#58
4-Methyl-2-Pentanone
Concen: 3.532 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

Instrument : MSVOA_N
ClientSampleId : SEMI-ANNUAL-CONDENSATERE

Tgt Ion: 43 Resp: 35330
Ion Ratio Lower Upper
43 100
58 38.4 30.4 45.6
85 18.3 13.2 19.8

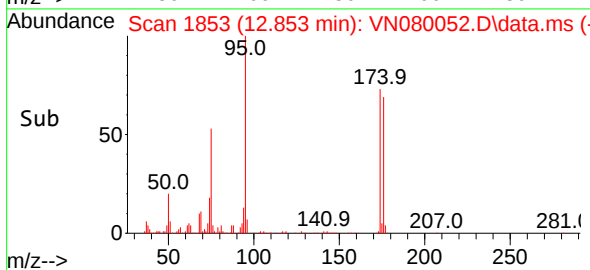
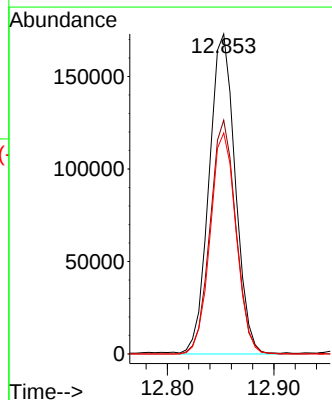
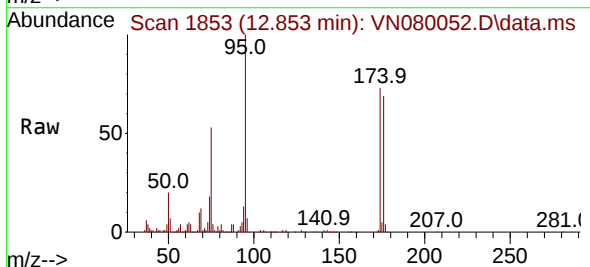
Manual Integrations
APPROVED

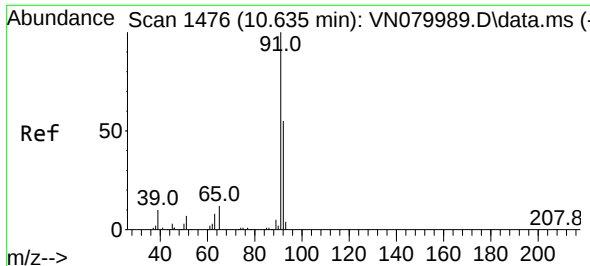
Reviewed By :John Carlone 11/13/2023
Supervised By :Mahesh Dadoda 11/13/2023



#60
4-Bromofluorobenzene
Concen: 30.839 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

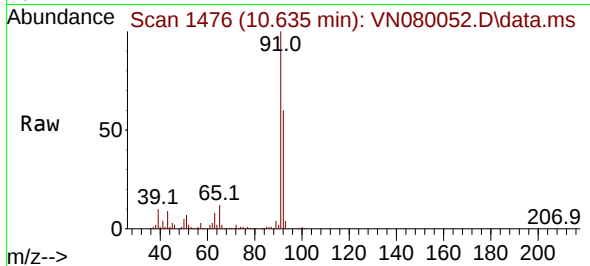
Tgt Ion: 95 Resp: 295339
Ion Ratio Lower Upper
95 100
174 71.9 60.5 90.7
176 68.3 57.2 85.8





#62
Toluene
Concen: 22.503 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

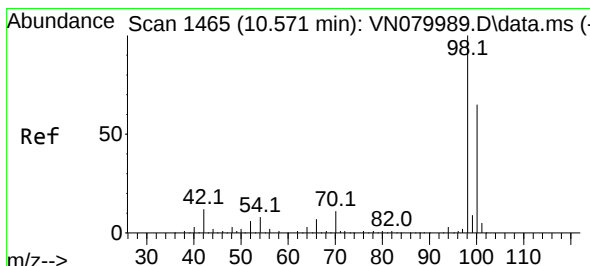
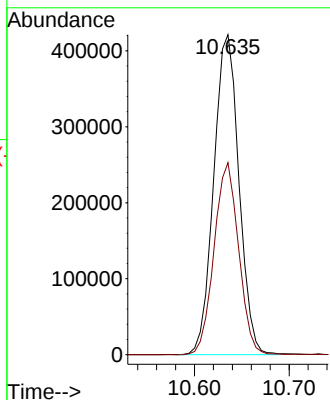
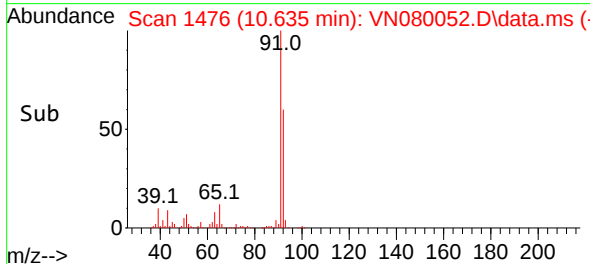
Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATERE



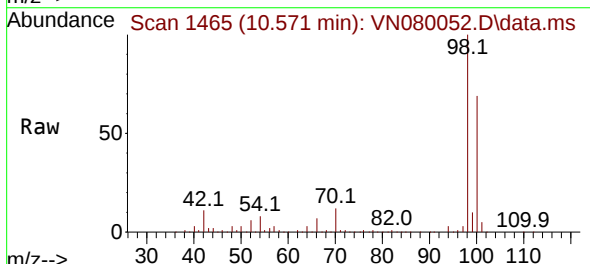
Tgt Ion: 91 Resp: 77942
Ion Ratio Lower Upper
91 100
92 58.4 45.3 67.9

Manual Integrations
APPROVED

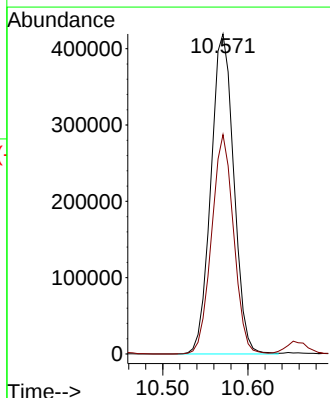
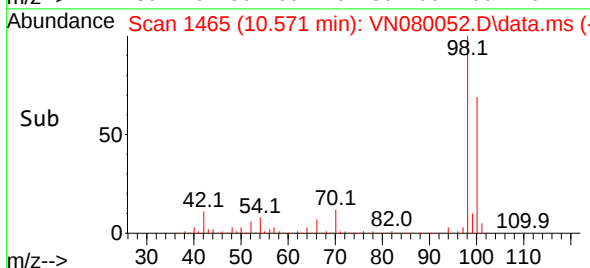
Reviewed By :John Carlone 11/13/2023
Supervised By :Mahesh Dadoda 11/13/2023

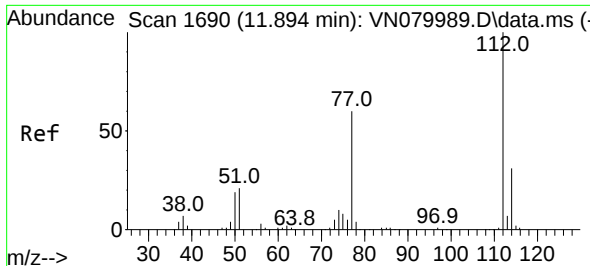


#63
Toluene-d8
Concen: 27.552 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.001 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53



Tgt Ion: 98 Resp: 781802
Ion Ratio Lower Upper
98 100
100 66.0 51.6 77.4





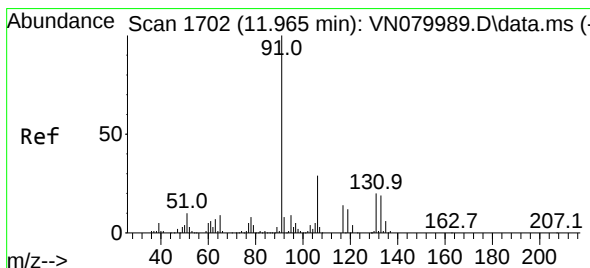
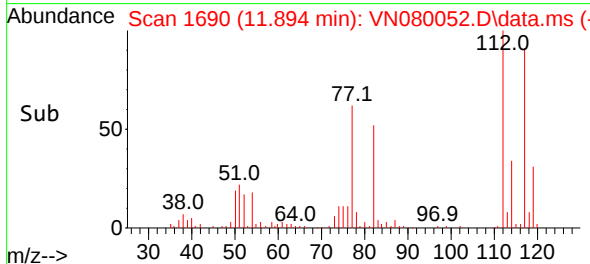
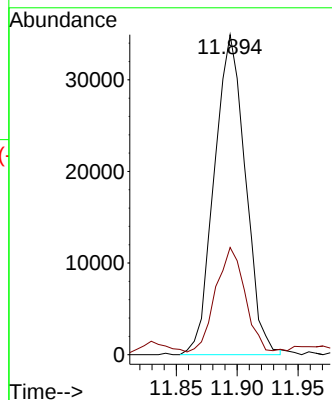
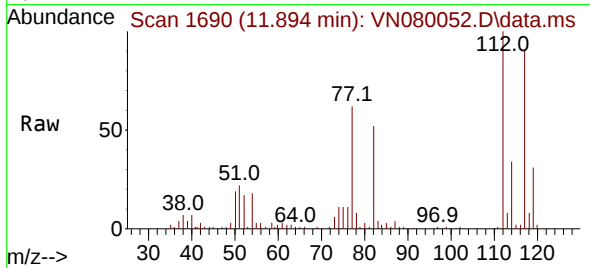
#64
Chlorobenzene
Concen: 3.008 ug/l
RT: 11.894 min Scan# 1118
Delta R.T. 0.000 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATERE

Tgt Ion:112 Resp: 6218
Ion Ratio Lower Upper
112 100
114 31.9 28.1 42.1

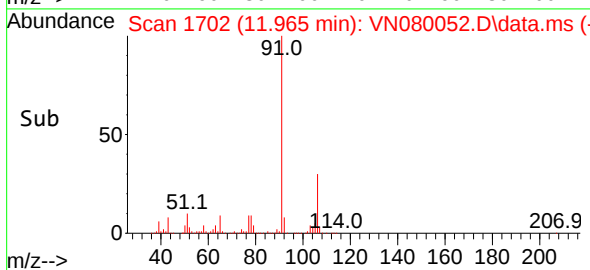
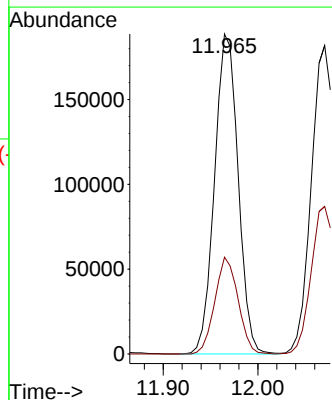
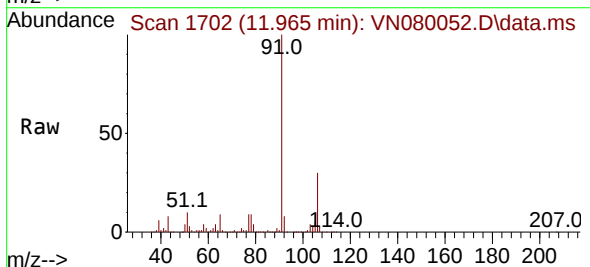
Manual Integrations
APPROVED

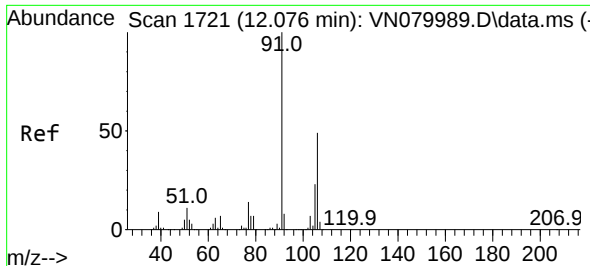
Reviewed By :John Carlone 11/13/2023
Supervised By :Mahesh Dadoda 11/13/2023



#66
Ethyl Benzene
Concen: 8.980 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.005 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

Tgt Ion: 91 Resp: 326853
Ion Ratio Lower Upper
91 100
106 30.3 23.8 35.8





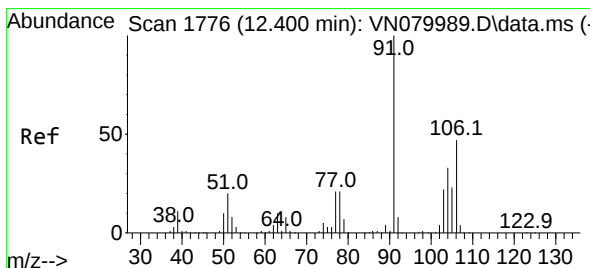
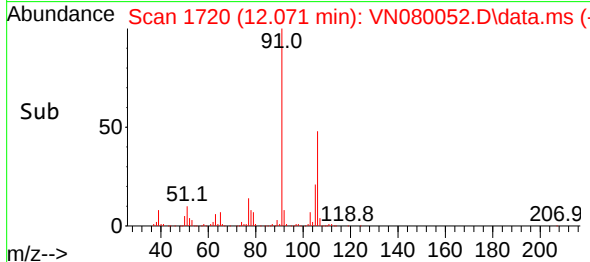
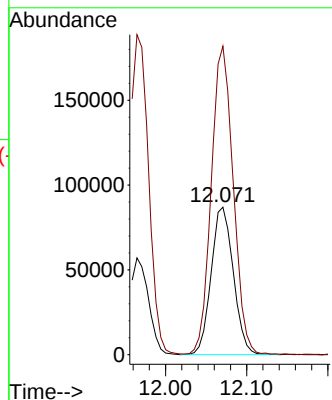
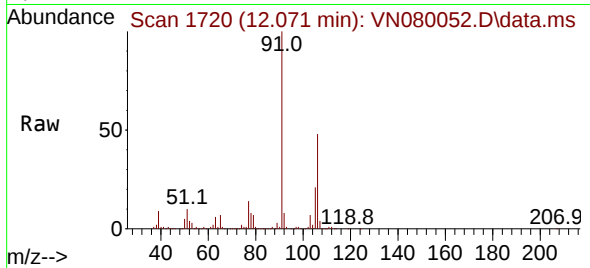
#67
m/p-Xylenes
Concen: 12.189 ug/l
RT: 12.071 min Scan# 1721
Delta R.T. -0.005 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATERE

Tgt Ion:106 Resp: 165168
Ion Ratio Lower Upper
106 100
91 206.8 161.8 242.6

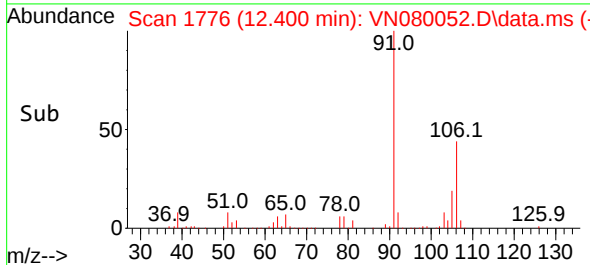
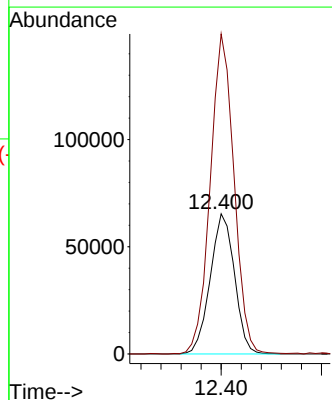
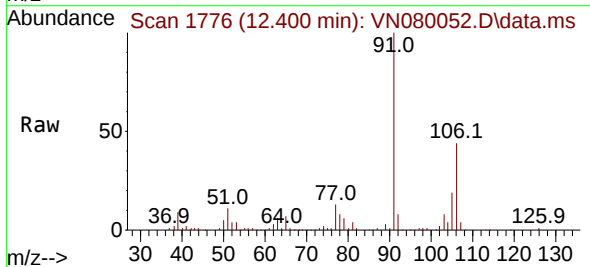
Manual Integrations
APPROVED

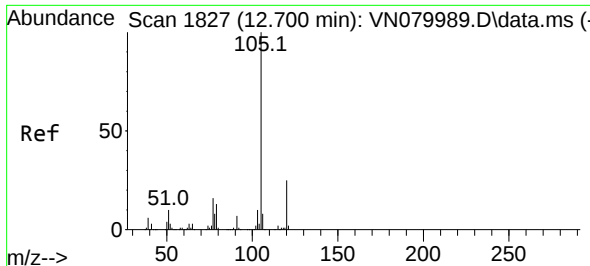
Reviewed By :John Carlone 11/13/2023
Supervised By :Mahesh Dadoda 11/13/2023



#68
o-Xylene
Concen: 8.473 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

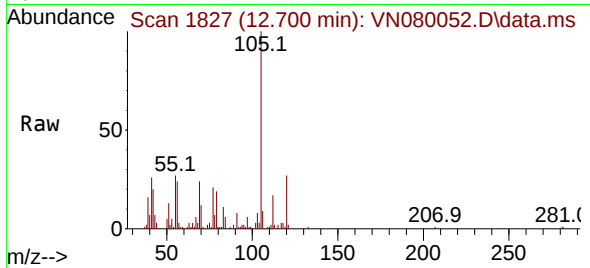
Tgt Ion:106 Resp: 110053
Ion Ratio Lower Upper
106 100
91 223.5 109.9 329.7





#70
Isopropylbenzene
Concen: 1.470 ug/l
RT: 12.700 min Scan# 1827
Delta R.T. -0.000 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

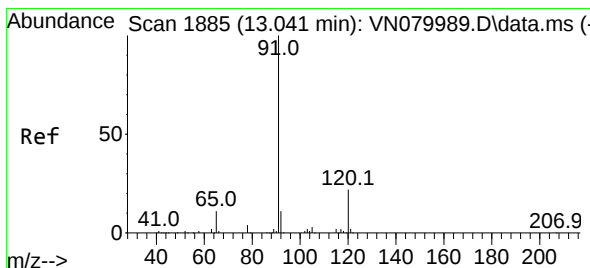
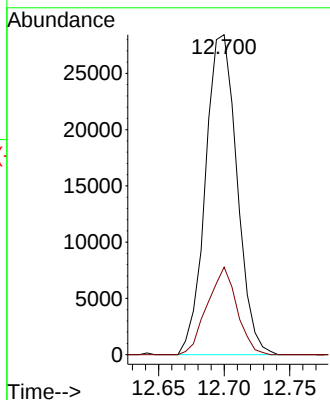
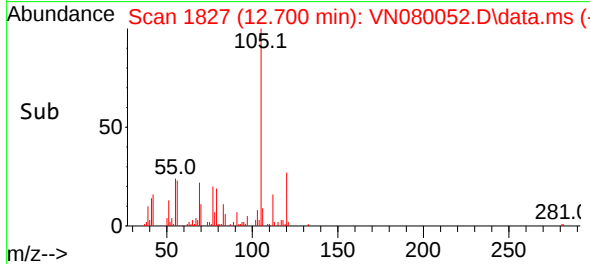
Instrument : MSVOA_N
ClientSampleId : SEMI-ANNUAL-CONDENSATERE



Tgt Ion:105 Resp: 47615
Ion Ratio Lower Upper
105 100
120 25.7 18.1 33.5

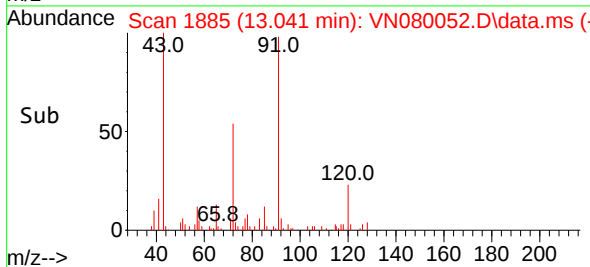
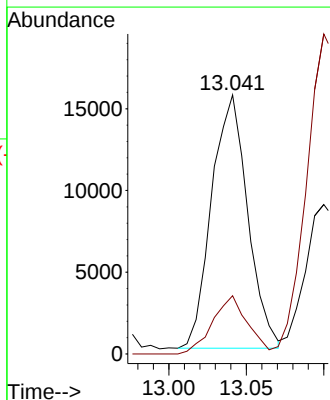
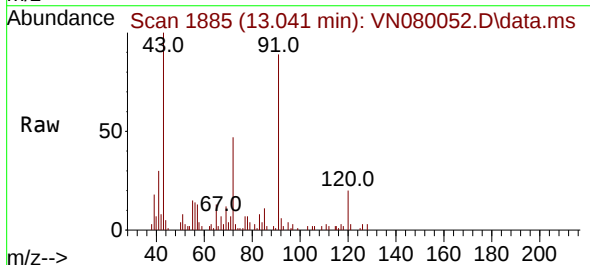
Manual Integrations
APPROVED

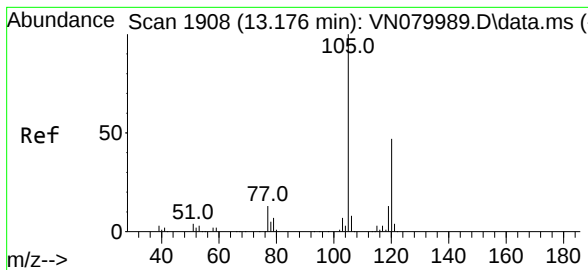
Reviewed By :John Carlone 11/13/2023
Supervised By :Mahesh Dadoda 11/13/2023



#74
n-propylbenzene
Concen: 0.647 ug/l
RT: 13.041 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

Tgt Ion: 91 Resp: 25069
Ion Ratio Lower Upper
91 100
120 22.2 0.0 42.0





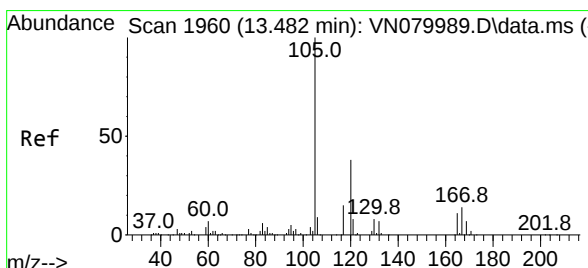
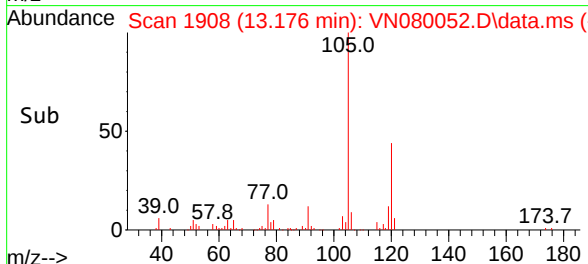
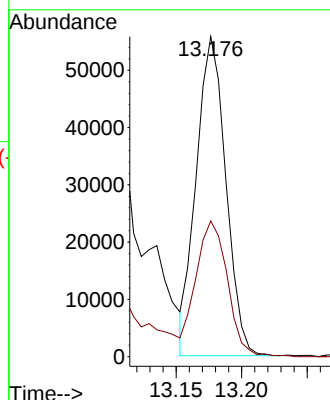
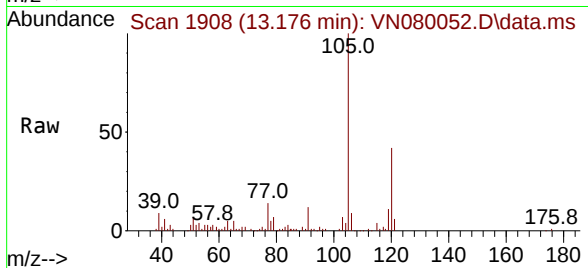
#76
 1,3,5-Trimethylbenzene
 Concen: 3.264 ug/l
 RT: 13.176 min Scan# 1908
 Delta R.T. 0.000 min
 Lab File: VN080052.D
 Acq: 10 Nov 2023 14:53

Instrument : MSVOA_N
 ClientSampleId : SEMI-ANNUAL-CONDENSATERE

Tgt Ion:105 Resp: 87470
 Ion Ratio Lower Upper
 105 100
 120 44.6 0.0 93.2

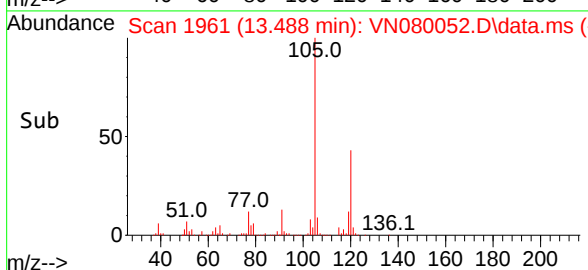
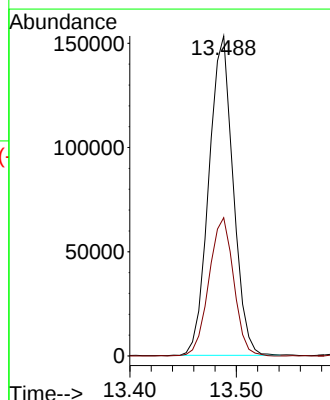
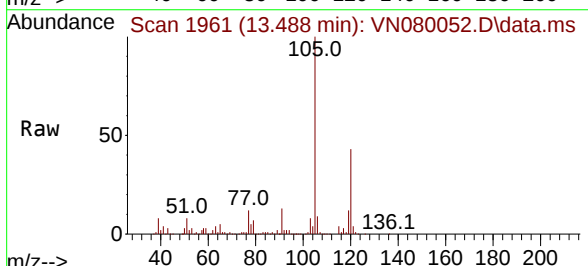
Manual Integrations
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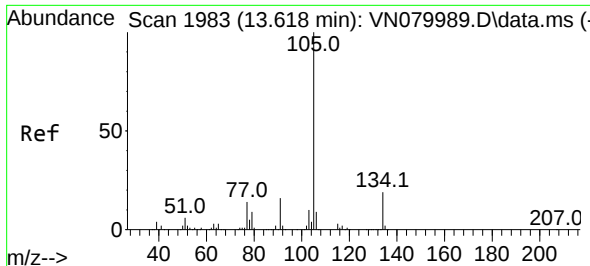
Reviewed By :John Carlone 11/13/2023
 Supervised By :Mahesh Dadoda 11/13/2023



#80
 1,2,4-Trimethylbenzene
 Concen: 9.218 ug/l
 RT: 13.488 min Scan# 1961
 Delta R.T. 0.000 min
 Lab File: VN080052.D
 Acq: 10 Nov 2023 14:53

Tgt Ion:105 Resp: 242218
 Ion Ratio Lower Upper
 105 100
 120 44.1 0.0 88.6





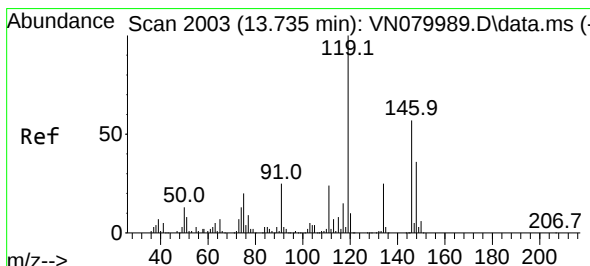
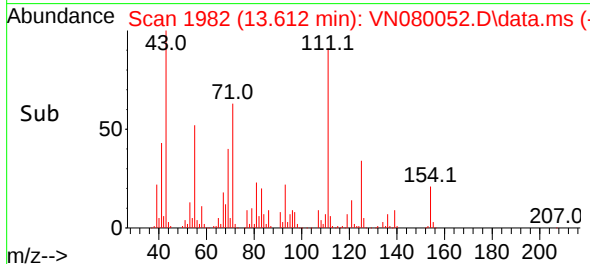
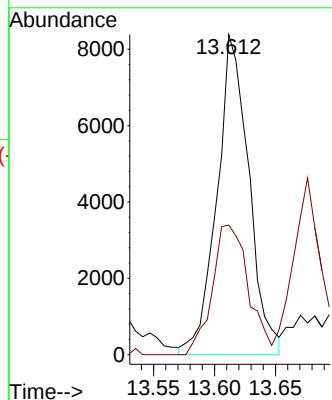
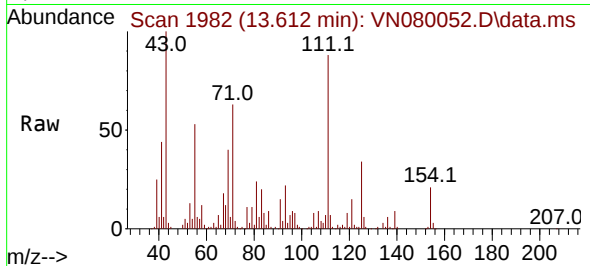
#81
 sec-Butylbenzene
 Concen: 0.516 ug/l m
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.005 min
 Lab File: VN080052.D
 Acq: 10 Nov 2023 14:53

Instrument :
 MSVOA_N
 ClientSampleId :
 SEMI-ANNUAL-CONDENSATERE

Tgt Ion:105 Resp: 15274
 Ion Ratio Lower Upper
 105 100
 134 1.4 0.0 38.2

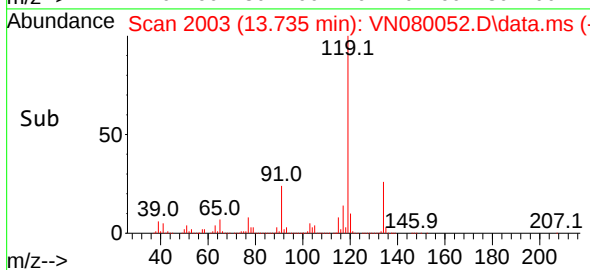
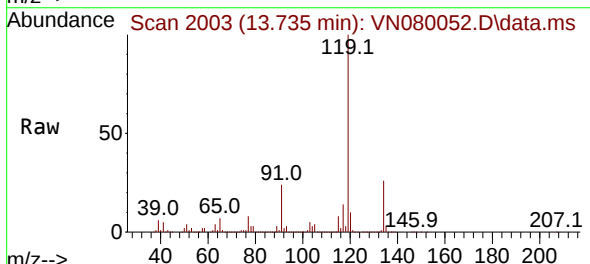
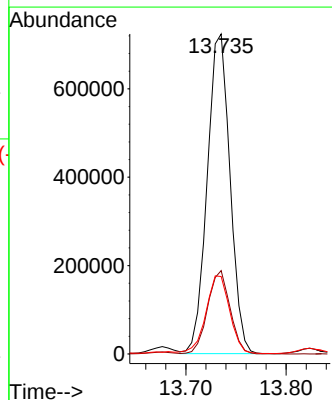
Manual Integrations
 APPROVED

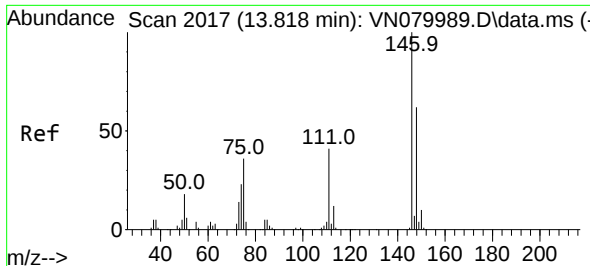
Reviewed By :John Carlone 11/13/2023
 Supervised By :Mahesh Dadoda 11/13/2023



#82
 p-Isopropyltoluene
 Concen: 47.644 ug/l
 RT: 13.735 min Scan# 2003
 Delta R.T. 0.000 min
 Lab File: VN080052.D
 Acq: 10 Nov 2023 14:53

Tgt Ion:119 Resp: 1146210
 Ion Ratio Lower Upper
 119 100
 134 25.6 0.0 52.2
 91 25.4 0.0 50.0





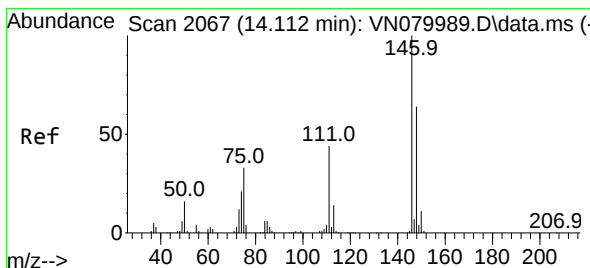
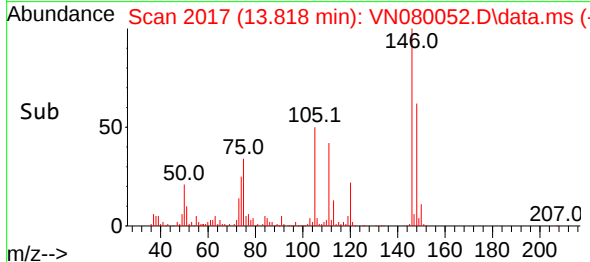
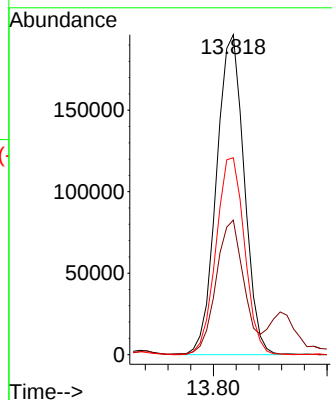
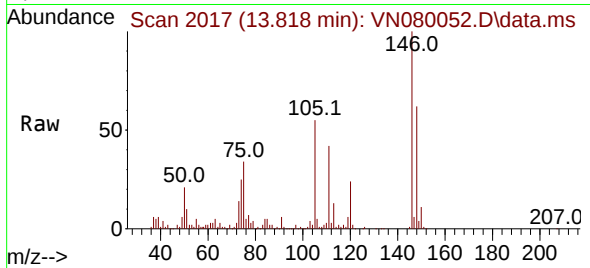
#84
1,4-Dichlorobenzene
Concen: 23.377 ug/l
RT: 13.818 min Scan# 2017
Delta R.T. 0.001 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATERE

Tgt Ion:146 Resp: 33300
Ion Ratio Lower Upper
146 100
111 42.4 19.9 59.7
148 63.2 32.6 97.7

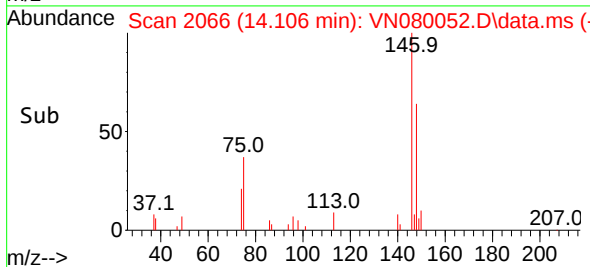
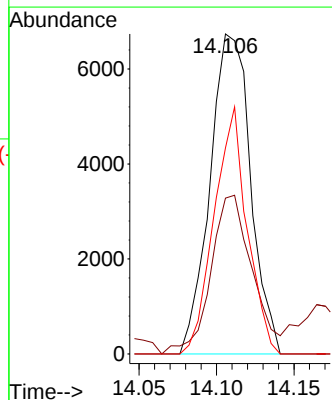
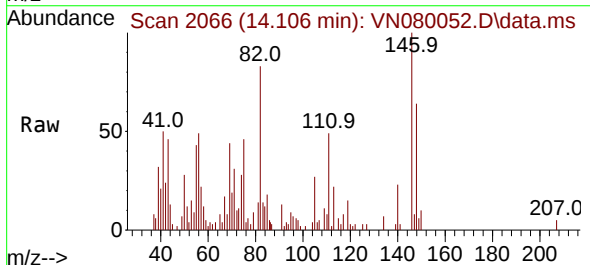
Manual Integrations
APPROVED

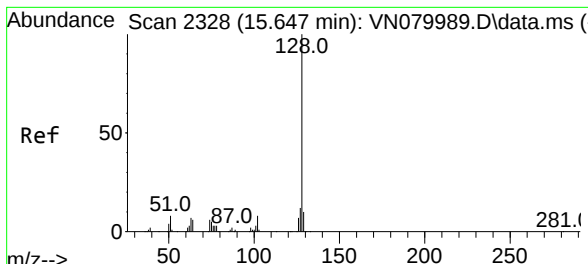
Reviewed By :John Carlone 11/13/2023
Supervised By :Mahesh Dadoda 11/13/2023



#87
1,2-Dichlorobenzene
Concen: 0.887 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.005 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

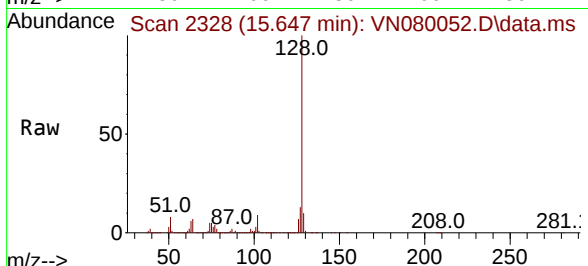
Tgt Ion:146 Resp: 12296
Ion Ratio Lower Upper
146 100
111 50.5 22.0 66.0
148 62.6 31.1 93.5





#91
Naphthalene
Concen: 36.710 ug/l
RT: 15.647 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN080052.D
Acq: 10 Nov 2023 14:53

Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATERE



Tgt Ion:128 Resp: 75672
Ion Ratio Lower Upper
128 100
127 12.5 10.9 16.3
129 10.9 8.6 12.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/13/2023
Supervised By :Mahesh Dadoda 11/13/2023

