

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121523\
 Data File : VX039227.D
 Acq On : 15 Dec 2023 12:25
 Operator : JC/MD
 Sample : 05840-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 231213055-02-VOA

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/18/2023
 Supervised By :Semsettin Yesilyurt 12/18/2023

Quant Time: Dec 16 01:13:56 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	9463	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	74137	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	87790	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	42066	32.493	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.300%			
60) 4-Bromofluorobenzene	11.079	95	59802	31.188	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.967%			
63) Toluene-d8	8.647	98	102767	29.608	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.700%			
Target Compounds						
8) Diethyl Ether	2.130	74	1286	1.483	ug/l	74
23) tert-Butyl Alcohol	2.947	59	2036785	3747.044	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	7971	1.681	ug/l #	65
34) Benzene	6.044	78	12562m	2.075	ug/l	
45) 1,4-Dioxane	7.659	88	3776	87.162	ug/l	95
58) 4-Methyl-2-Pentanone	8.574	43	22410	8.418	ug/l	93
59) 2-Hexanone	9.439	43	2541	1.163	ug/l #	73
62) Toluene	8.720	91	5630	0.903	ug/l	98
64) Chlorobenzene	10.079	112	3216	0.848	ug/l	97
66) Ethyl Benzene	10.195	91	12973	1.828	ug/l	97
67) m/p-Xylenes	10.299	106	3937	1.501	ug/l	98
68) o-Xylene	10.640	106	7467	2.939	ug/l	99
70) Isopropylbenzene	10.963	105	6528	0.960	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	2967	0.507	ug/l	95
80) 1,2,4-Trimethylbenzene	11.750	105	1994	0.340	ug/l	82
84) 1,4-Dichlorobenzene	12.042	146	7005	2.305	ug/l	94

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

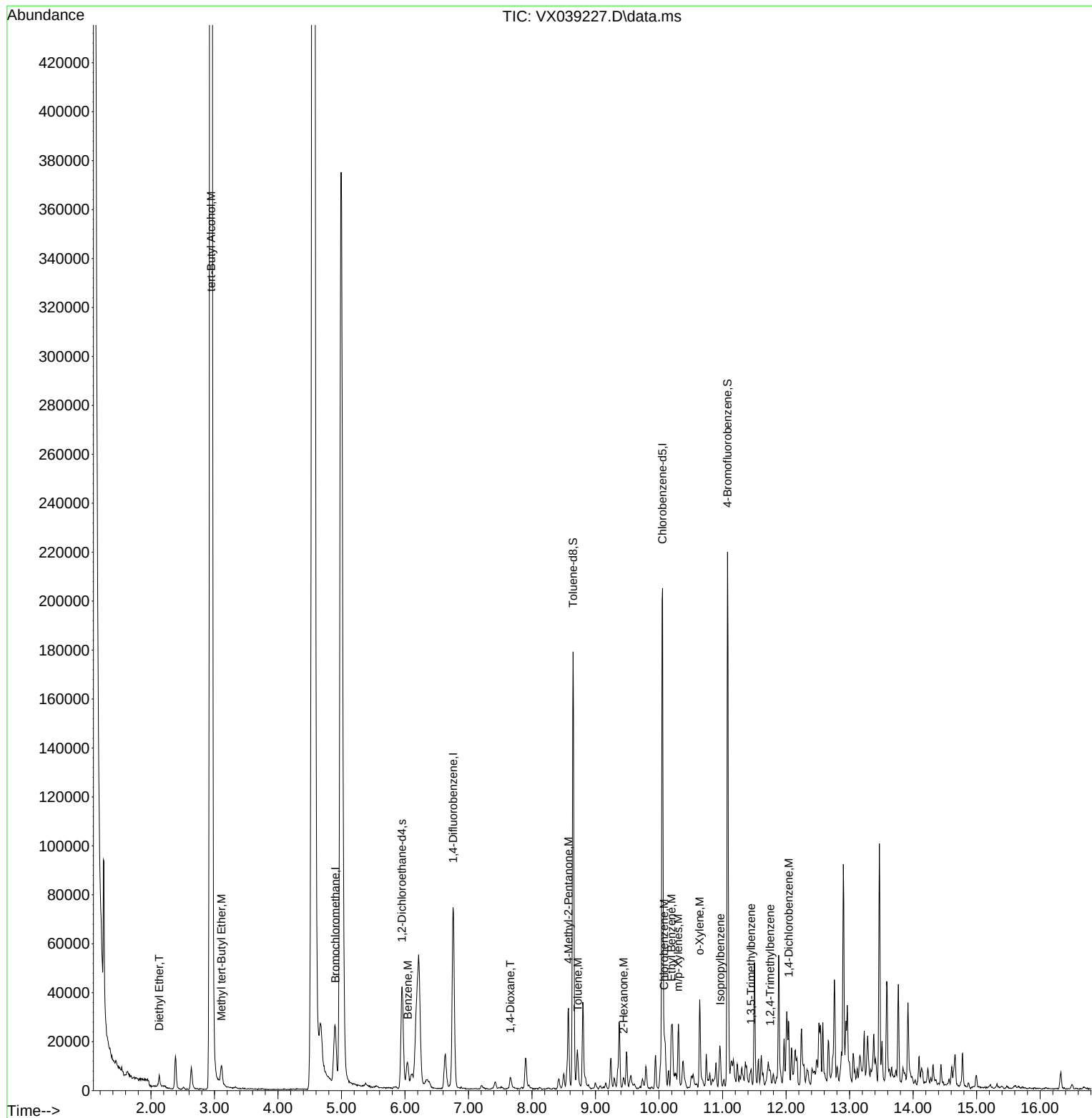
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121523\
Data File : VX039227.D
Acq On : 15 Dec 2023 12:25
Operator : JC/MD
Sample : 05840-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

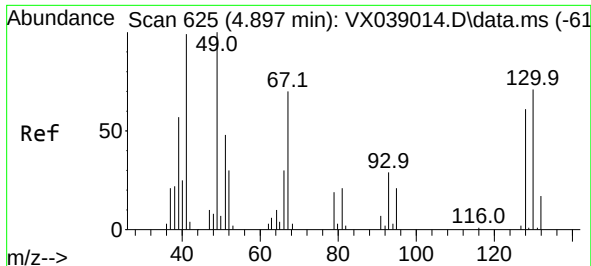
Instrument :
MSVOA_X
ClientSampleId :
231213055-02-VOA

Quant Time: Dec 16 01:13:56 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Nov 27 03:22:25 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

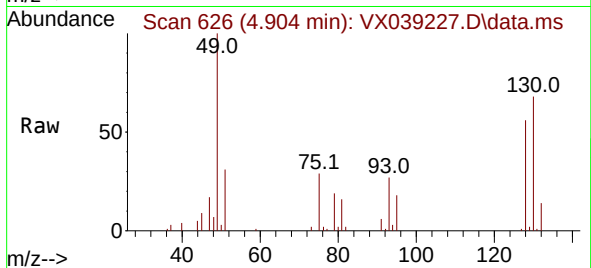
Reviewed By :Mahesh Dadoda 12/18/2023
Supervised By :Semsettin Yesilyurt 12/18/2023





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX039227.D
Acq: 15 Dec 2023 12:25

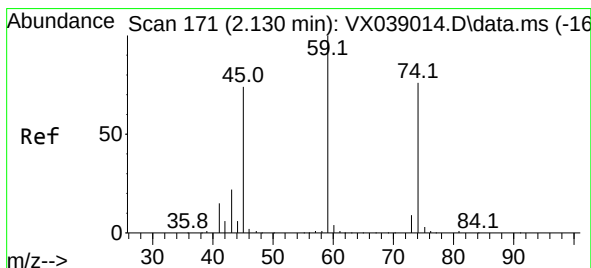
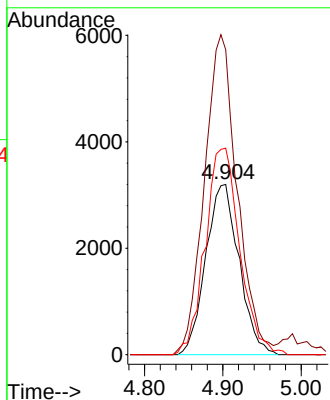
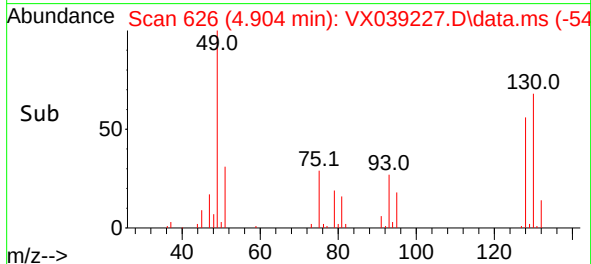
Instrument :
MSVOA_X
ClientSampleId :
231213055-02-VOA



Tgt Ion:128 Resp: 946
Ion Ratio Lower Upper
128 100
49 184.9 0.0 444.0
130 125.1 0.0 297.8

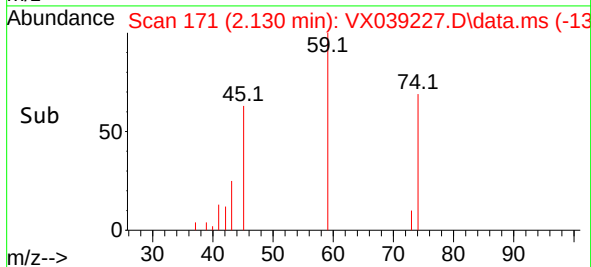
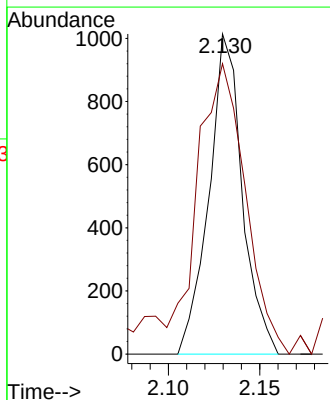
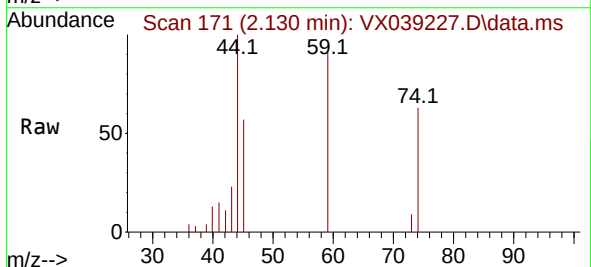
Manual Integrations
APPROVED

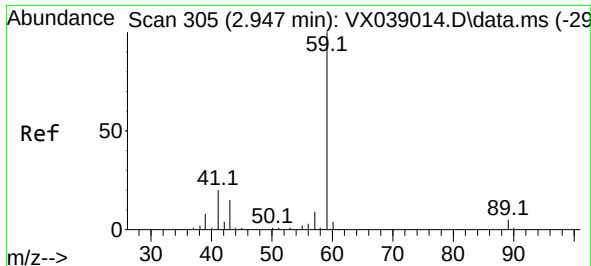
Reviewed By :Mahesh Dadoda 12/18/2023
Supervised By :Semsettin Yesilyurt 12/18/2023



#8
Diethyl Ether
Concen: 1.483 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX039227.D
Acq: 15 Dec 2023 12:25

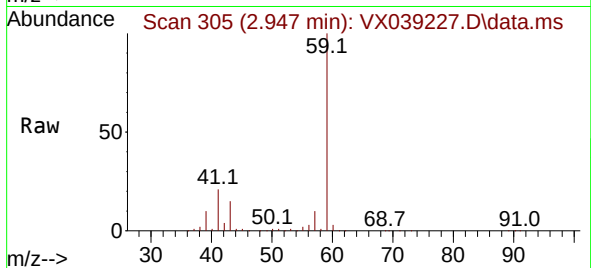
Tgt Ion: 74 Resp: 1286
Ion Ratio Lower Upper
74 100
45 129.3 20.5 184.5





#23
tert-Butyl Alcohol
Concen: 3747.044 ug/l
RT: 2.947 min Scan# 305
Delta R.T. -0.000 min
Lab File: VX039227.D
Acq: 15 Dec 2023 12:25

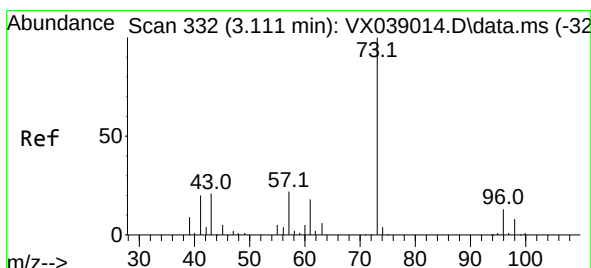
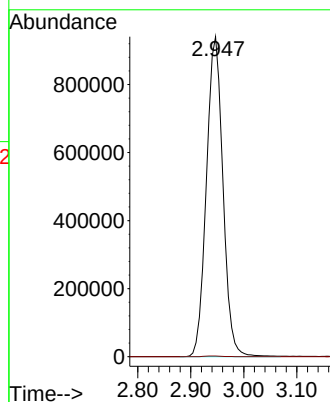
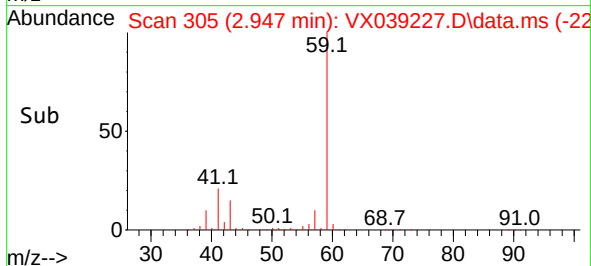
Instrument :
MSVOA_X
ClientSampleId :
231213055-02-VOA



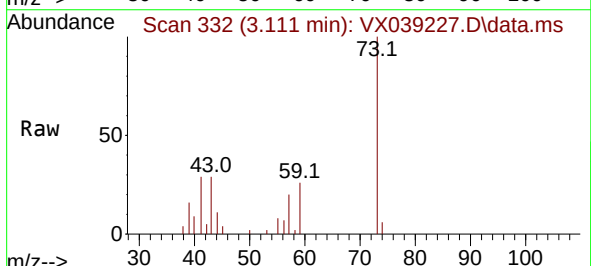
Tgt Ion: 59 Resp: 203678
Ion Ratio Lower Upper
59 100
52 0.2 0.0 0.0

Manual Integrations
APPROVED

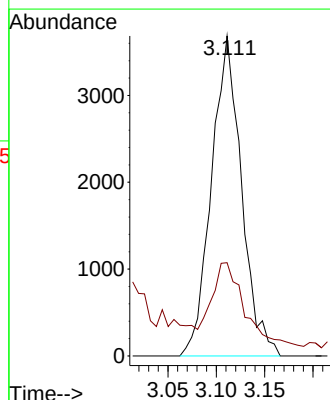
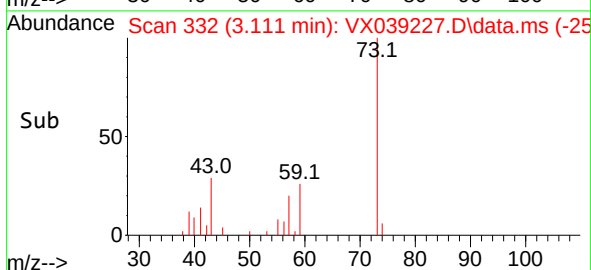
Reviewed By :Mahesh Dadoda 12/18/2023
Supervised By :Semsettin Yesilyurt 12/18/2023

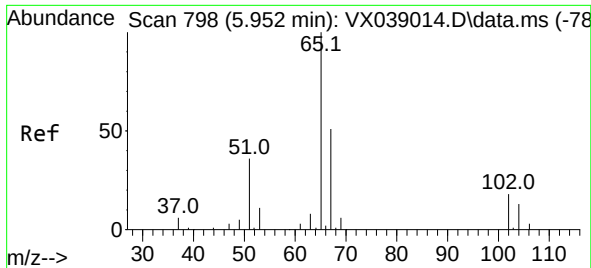


#24
Methyl tert-Butyl Ether
Concen: 1.681 ug/l
RT: 3.111 min Scan# 332
Delta R.T. -0.000 min
Lab File: VX039227.D
Acq: 15 Dec 2023 12:25



Tgt Ion: 73 Resp: 7971
Ion Ratio Lower Upper
73 100
43 37.6 17.0 25.6#





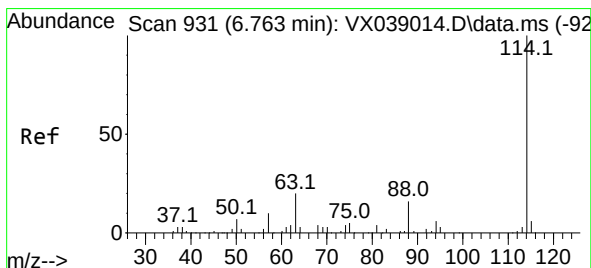
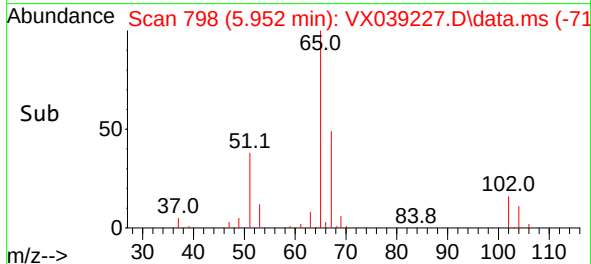
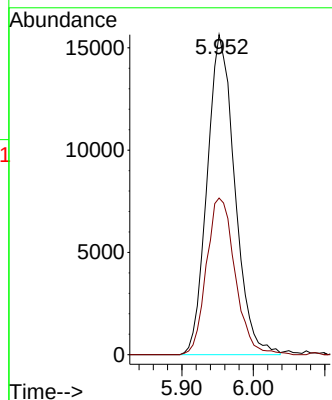
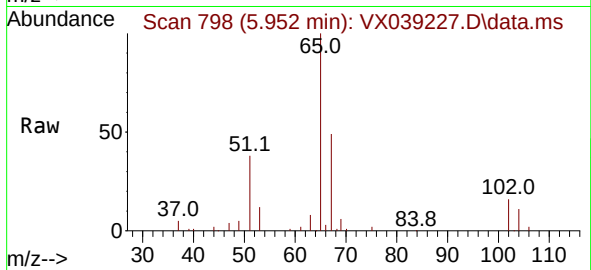
#27
1,2-Dichloroethane-d4
Concen: 32.493 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX039227.D
Acq: 15 Dec 2023 12:25

Instrument :
MSVOA_X
ClientSampleId :
231213055-02-VOA

Tgt Ion: 65 Resp: 42060
Ion Ratio Lower Upper
65 100
67 50.2 42.5 63.7

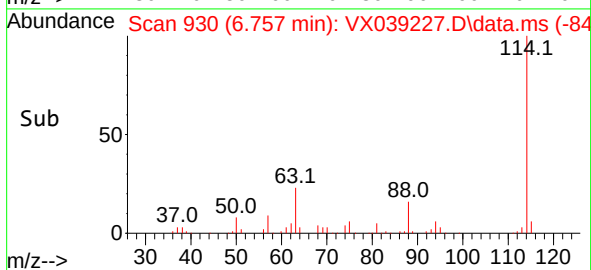
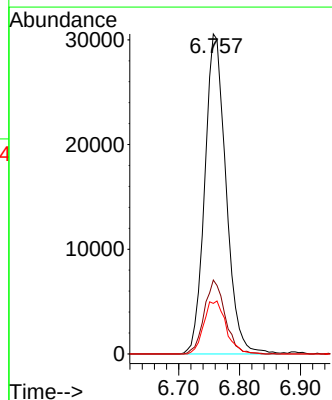
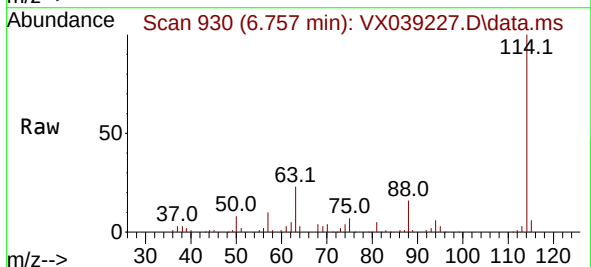
Manual Integrations
APPROVED

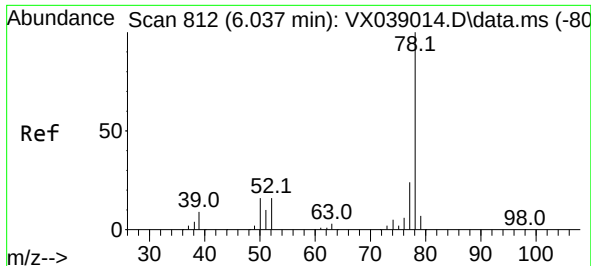
Reviewed By :Mahesh Dadoda 12/18/2023
Supervised By :Semsettin Yesilyurt 12/18/2023



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.006 min
Lab File: VX039227.D
Acq: 15 Dec 2023 12:25

Tgt Ion:114 Resp: 74137
Ion Ratio Lower Upper
114 100
63 22.6 17.0 25.4
88 17.4 12.7 19.1





#34

Benzene

Concen: 2.075 ug/l m

RT: 6.044 min Scan# 81

Delta R.T. 0.006 min

Lab File: VX039227.D

Acq: 15 Dec 2023 12:25

Instrument :

MSVOA_X

ClientSampleId :

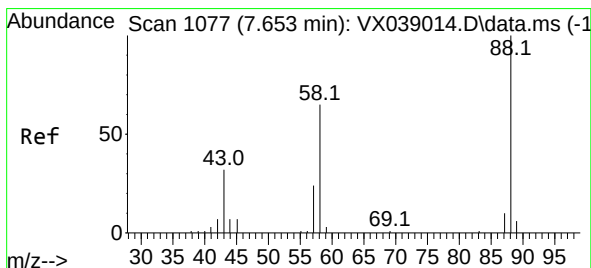
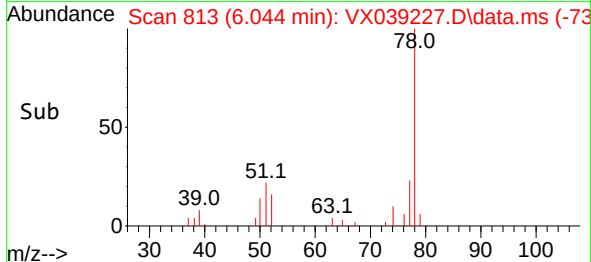
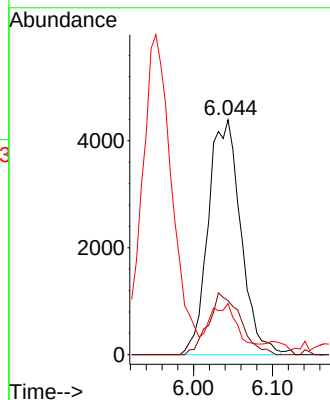
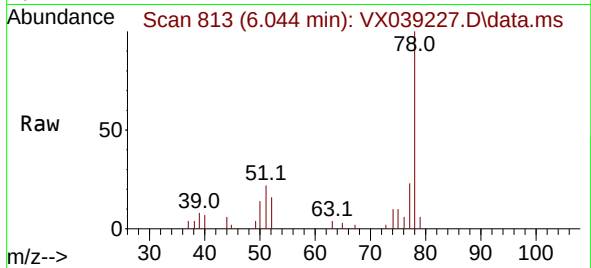
231213055-02-VOA

Tgt Ion: 78	Resp: 1256
Ion Ratio	Lower Upper
78 100	
77 23.0	19.3 28.9
51 21.8	14.4 21.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/18/2023
Supervised By :Semsettin Yesilyurt 12/18/2023



#45

1,4-Dioxane

Concen: 87.162 ug/l

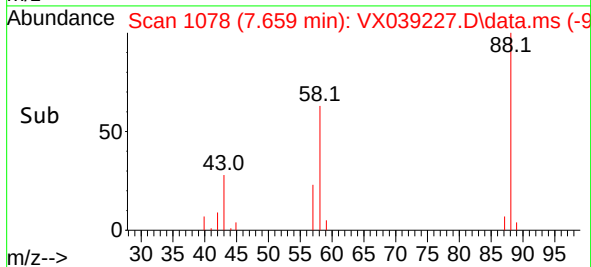
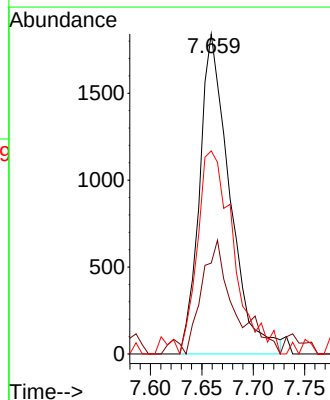
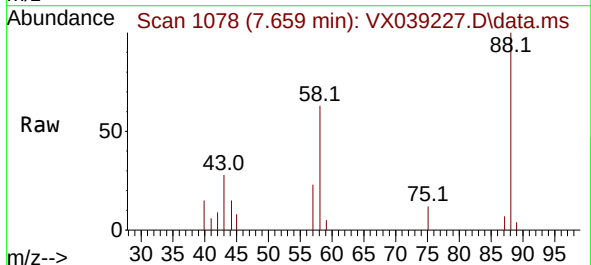
RT: 7.659 min Scan# 1078

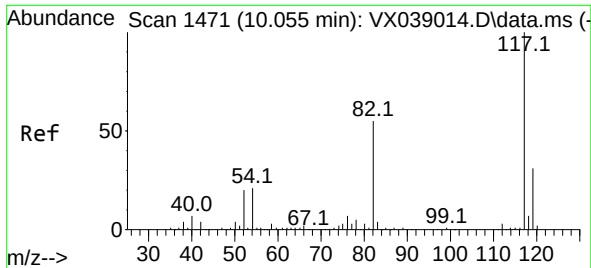
Delta R.T. 0.006 min

Lab File: VX039227.D

Acq: 15 Dec 2023 12:25

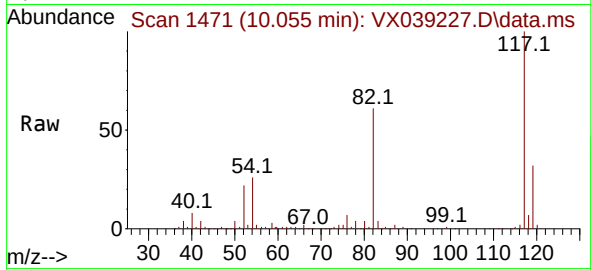
Tgt Ion: 88	Resp: 3776
Ion Ratio	Lower Upper
88 100	
43 31.5	28.1 42.1
58 75.5	57.7 86.5





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX039227.D
Acq: 15 Dec 2023 12:25

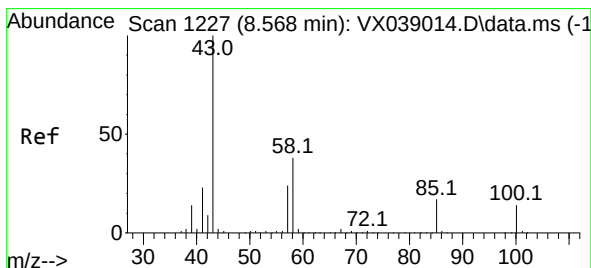
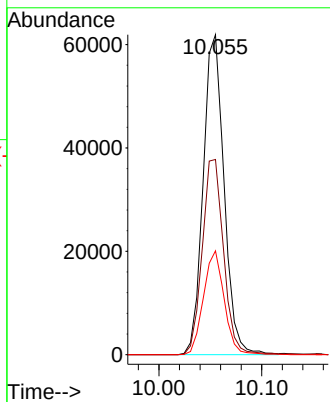
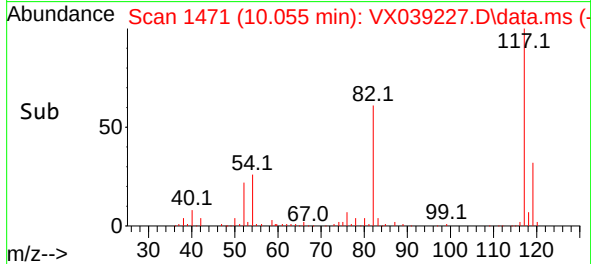
Instrument :
MSVOA_X
ClientSampleId :
231213055-02-VOA



Tgt Ion: 117 Resp: 87790
Ion Ratio Lower Upper
117 100
82 62.3 47.0 70.6
119 32.1 25.2 37.8

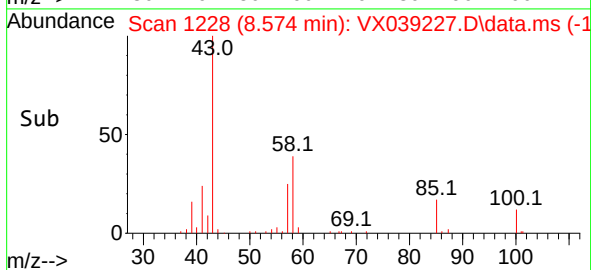
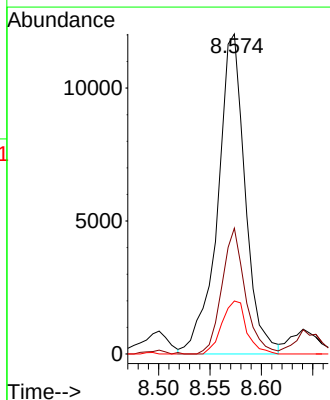
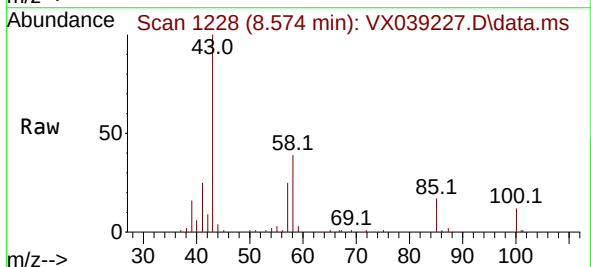
Manual Integrations
APPROVED

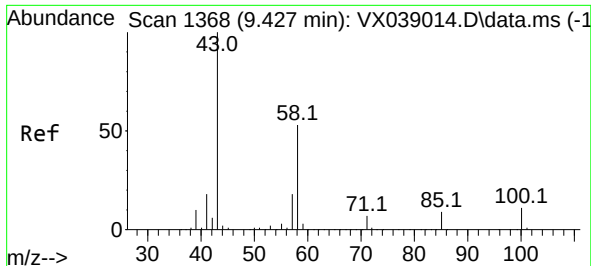
Reviewed By :Mahesh Dadoda 12/18/2023
Supervised By :Semsettin Yesilyurt 12/18/2023



#58
4-Methyl-2-Pentanone
Concen: 8.418 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.006 min
Lab File: VX039227.D
Acq: 15 Dec 2023 12:25

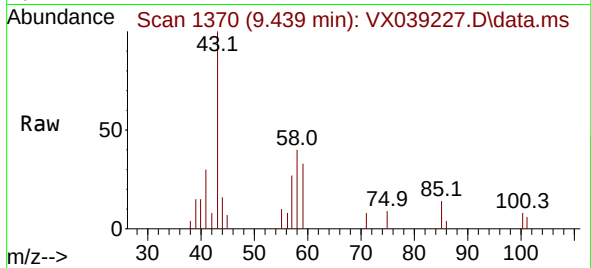
Tgt Ion: 43 Resp: 22410
Ion Ratio Lower Upper
43 100
58 33.2 30.1 45.1
85 14.8 13.9 20.9





#59
2-Hexanone
Concen: 1.163 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.012 min
Lab File: VX039227.D
Acq: 15 Dec 2023 12:25

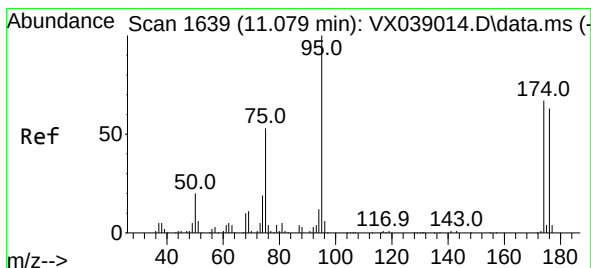
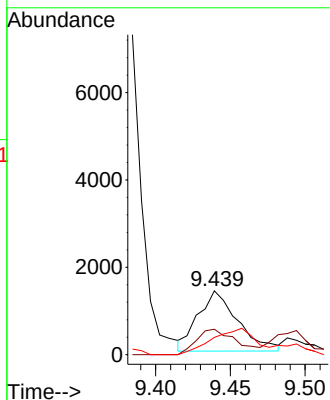
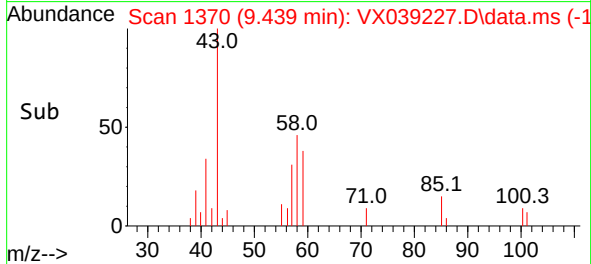
Instrument :
MSVOA_X
ClientSampleId :
231213055-02-VOA



Tgt Ion: 43 Resp: 254
Ion Ratio Lower Upper
43 100
58 43.2 42.7 64.1
57 47.7 14.8 22.2

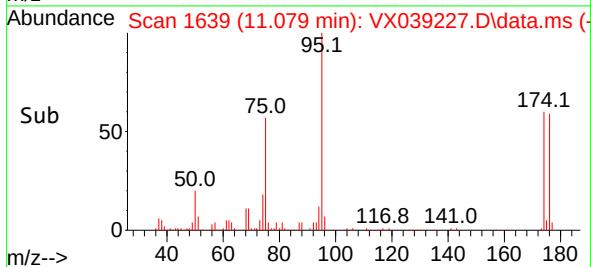
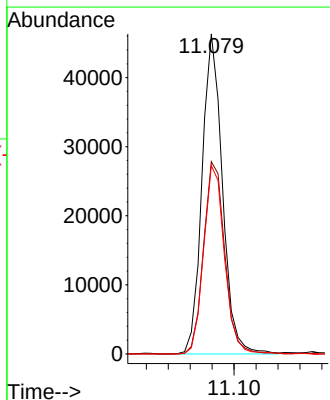
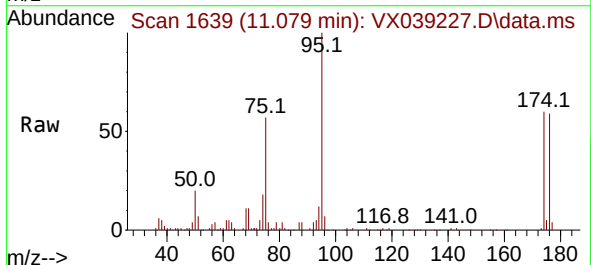
Manual Integrations
APPROVED

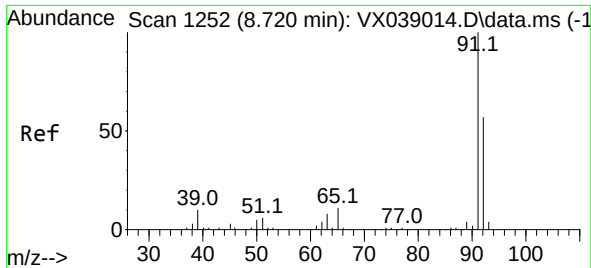
Reviewed By :Mahesh Dadoda 12/18/2023
Supervised By :Semsettin Yesilyurt 12/18/2023



#60
4-Bromofluorobenzene
Concen: 31.188 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX039227.D
Acq: 15 Dec 2023 12:25

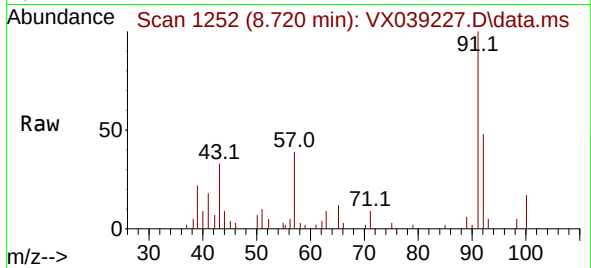
Tgt Ion: 95 Resp: 59802
Ion Ratio Lower Upper
95 100
174 62.5 55.4 83.2
176 60.2 52.6 78.8





#62
Toluene
Concen: 0.903 ug/l
RT: 8.720 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX039227.D
Acq: 15 Dec 2023 12:25

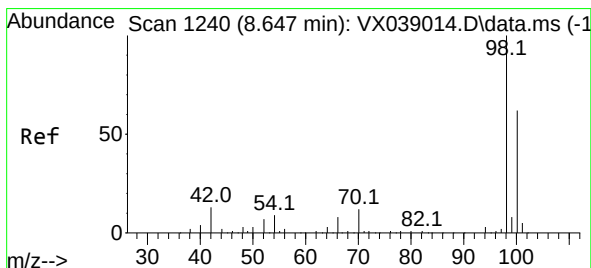
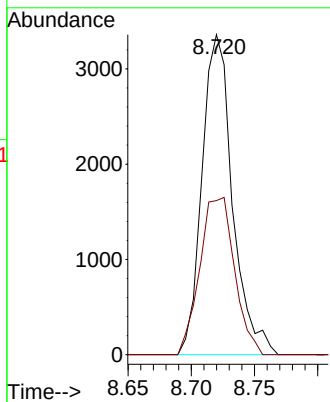
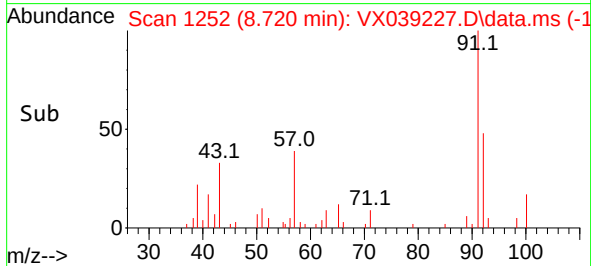
Instrument :
MSVOA_X
ClientSampleId :
231213055-02-VOA



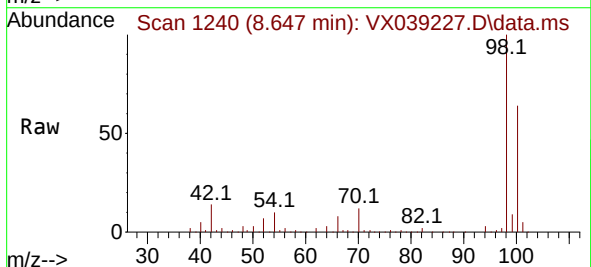
Tgt Ion: 91 Resp: 5630
Ion Ratio Lower Upper
91 100
92 56.0 45.9 68.9

Manual Integrations
APPROVED

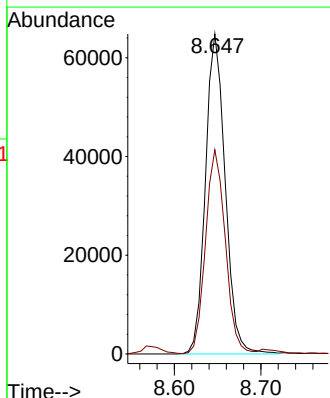
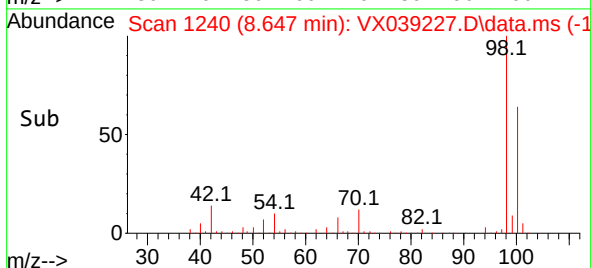
Reviewed By :Mahesh Dadoda 12/18/2023
Supervised By :Semsettin Yesilyurt 12/18/2023

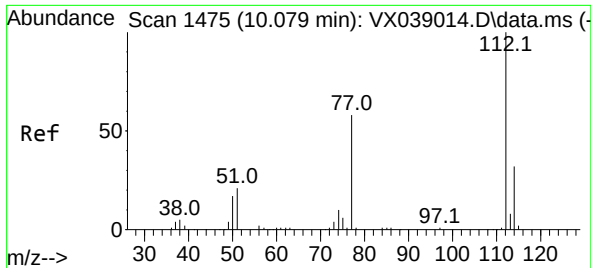


#63
Toluene-d8
Concen: 29.608 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX039227.D
Acq: 15 Dec 2023 12:25



Tgt Ion: 98 Resp: 102767
Ion Ratio Lower Upper
98 100
100 64.1 51.0 76.4





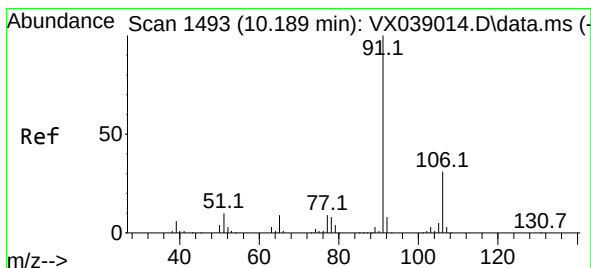
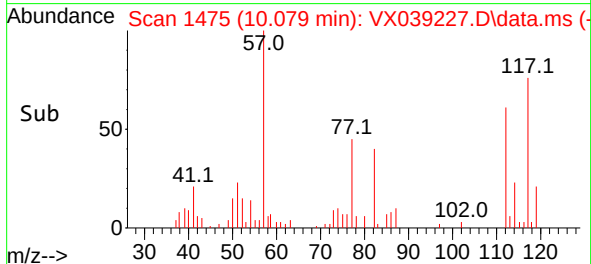
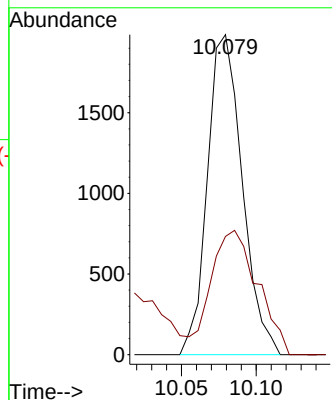
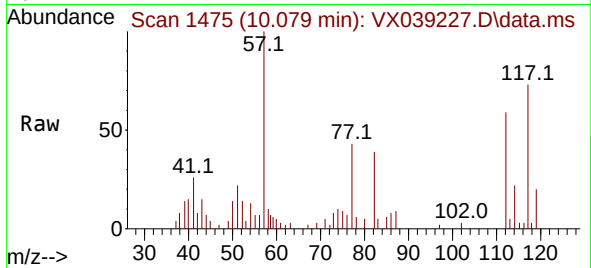
#64
Chlorobenzene
Concen: 0.848 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX039227.D
Acq: 15 Dec 2023 12:25

Instrument :
MSVOA_X
ClientSampleId :
231213055-02-VOA

Tgt Ion:112 Resp: 3210
Ion Ratio Lower Upper
112 100
114 31.0 25.9 38.9

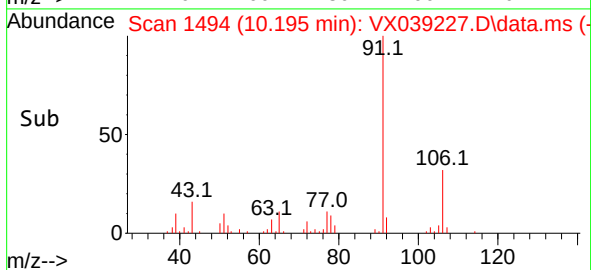
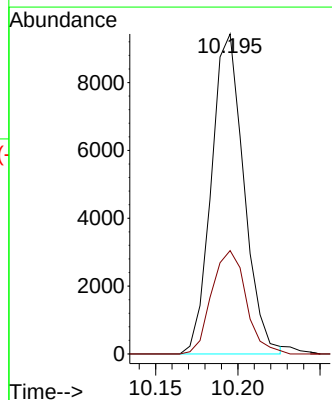
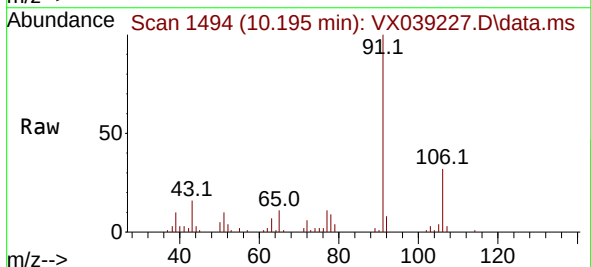
Manual Integrations
APPROVED

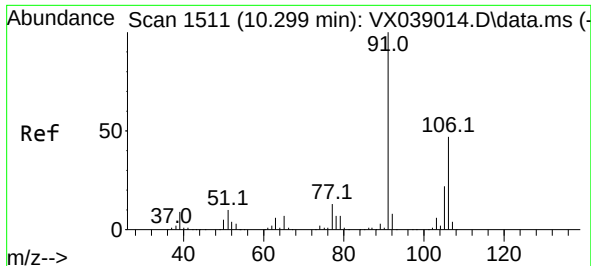
Reviewed By :Mahesh Dadoda 12/18/2023
Supervised By :Semsettin Yesilyurt 12/18/2023



#66
Ethyl Benzene
Concen: 1.828 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX039227.D
Acq: 15 Dec 2023 12:25

Tgt Ion: 91 Resp: 12973
Ion Ratio Lower Upper
91 100
106 32.3 24.4 36.6





#67

m/p-Xylenes

Concen: 1.501 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX039227.D

Acq: 15 Dec 2023 12:25

Instrument :

MSVOA_X

ClientSampleId :

231213055-02-VOA

Tgt Ion:106 Resp: 393

Ion Ratio Lower Upper

106 100

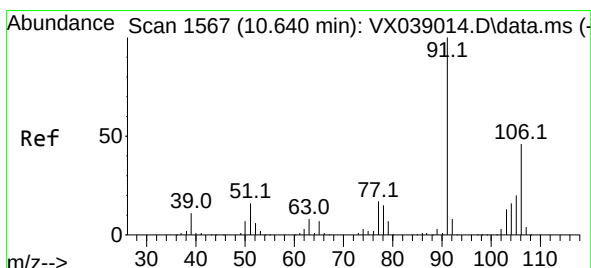
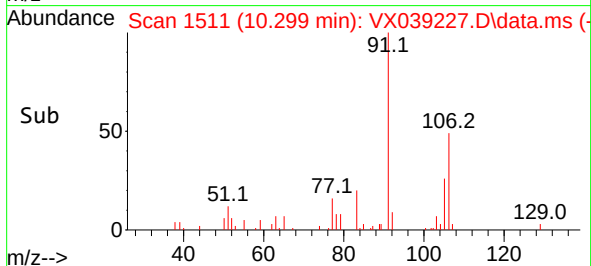
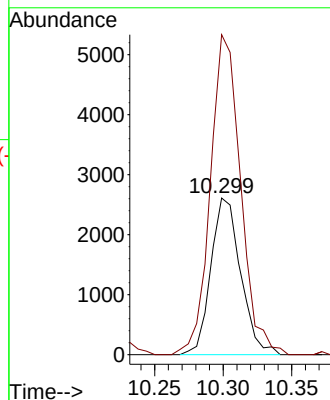
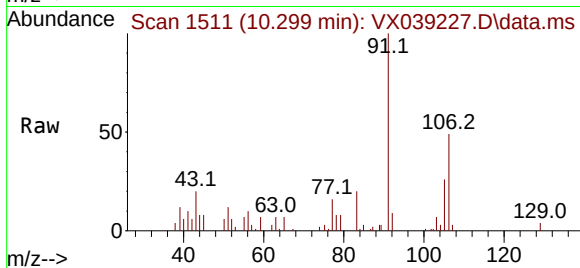
91 208.3 169.4 254.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/18/2023

Supervised By :Semsettin Yesilyurt 12/18/2023



#68

o-Xylene

Concen: 2.939 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX039227.D

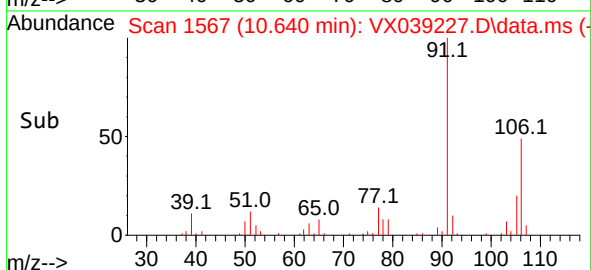
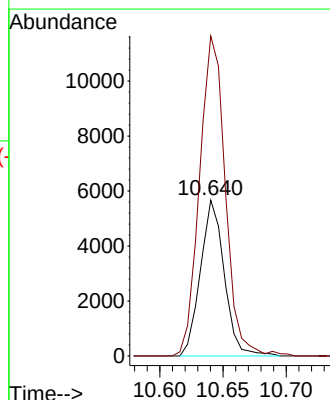
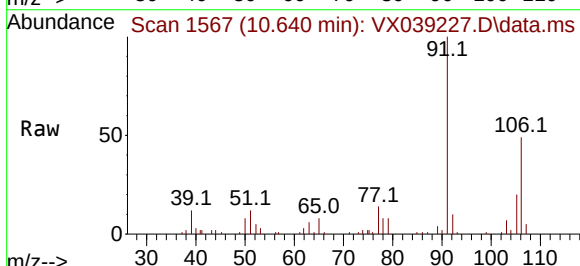
Acq: 15 Dec 2023 12:25

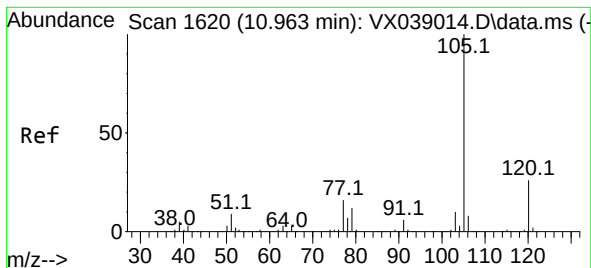
Tgt Ion:106 Resp: 7467

Ion Ratio Lower Upper

106 100

91 220.0 111.2 333.6





#70

Isopropylbenzene

Concen: 0.960 ug/l

RT: 10.963 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX039227.D

Acq: 15 Dec 2023 12:25

Instrument :

MSVOA_X

ClientSampleId :

231213055-02-VOA

Tgt Ion:105 Resp: 6528

Ion Ratio Lower Upper

105 100

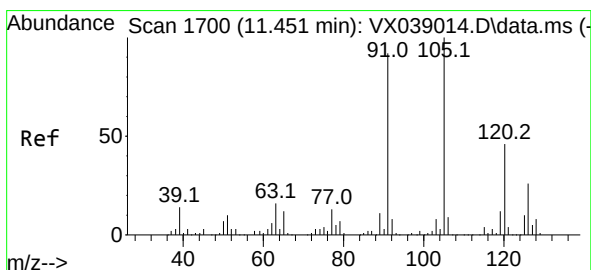
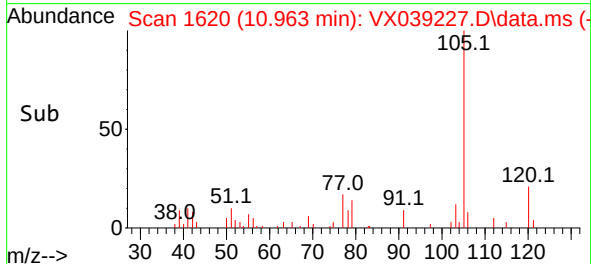
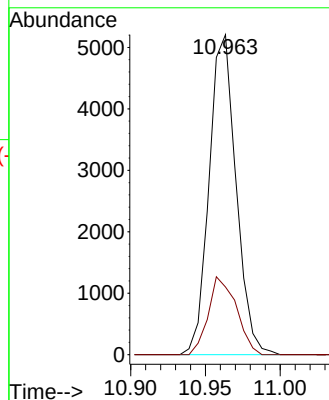
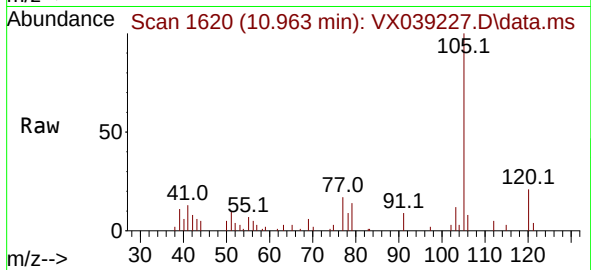
120 25.3 18.5 34.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/18/2023

Supervised By :Semsettin Yesilyurt 12/18/2023



#76

1,3,5-Trimethylbenzene

Concen: 0.507 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX039227.D

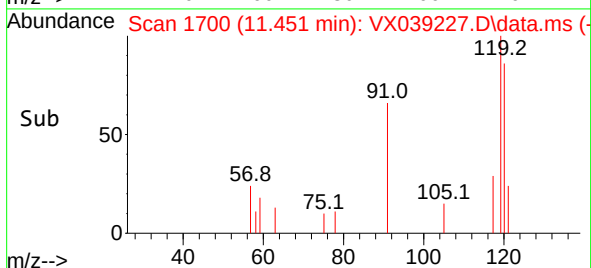
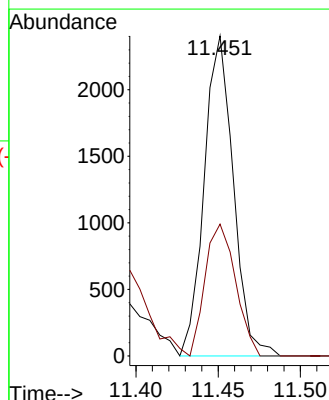
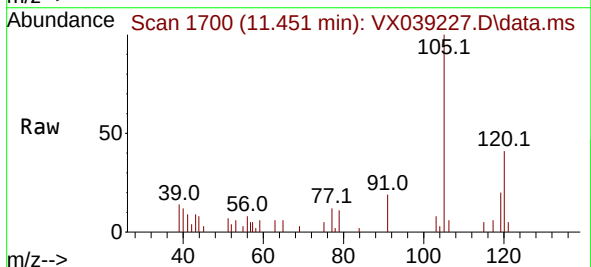
Acq: 15 Dec 2023 12:25

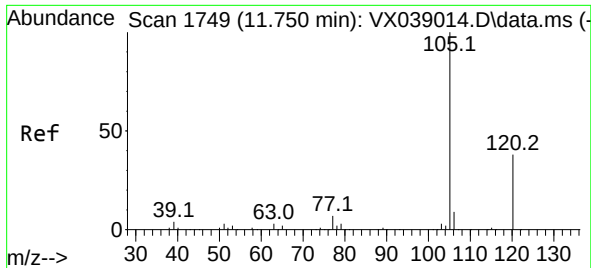
Tgt Ion:105 Resp: 2967

Ion Ratio Lower Upper

105 100

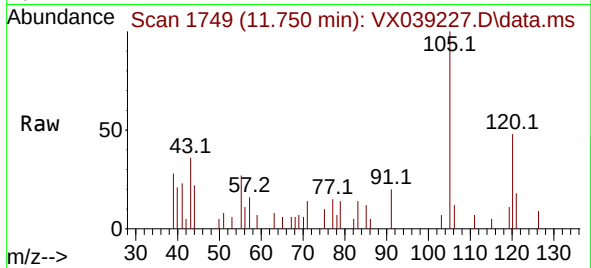
120 42.9 0.0 92.6





#80
1,2,4-Trimethylbenzene
Concen: 0.340 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX039227.D
Acq: 15 Dec 2023 12:25

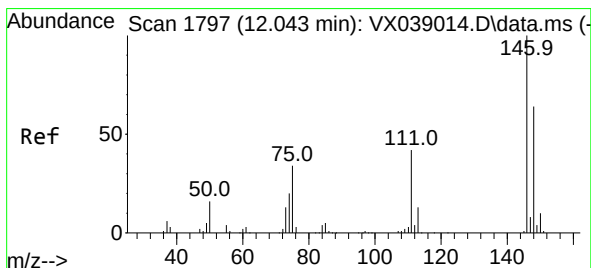
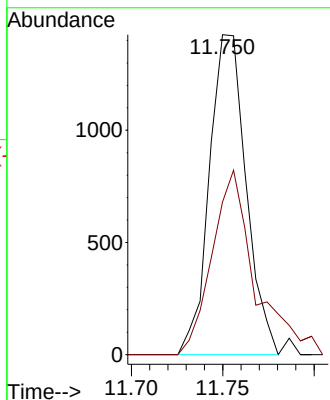
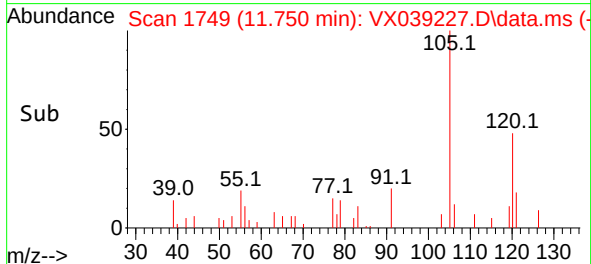
Instrument :
MSVOA_X
ClientSampleId :
231213055-02-VOA



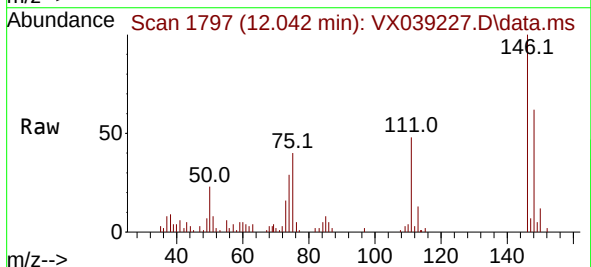
Tgt Ion:105 Resp: 1994
Ion Ratio Lower Upper
105 100
120 54.7 0.0 86.4

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/18/2023
Supervised By :Semsettin Yesilyurt 12/18/2023



#84
1,4-Dichlorobenzene
Concen: 2.305 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX039227.D
Acq: 15 Dec 2023 12:25



Tgt Ion:146 Resp: 7005
Ion Ratio Lower Upper
146 100
111 49.4 21.4 64.2
148 61.8 31.8 95.4

