

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011223\
 Data File : VX033709.D
 Acq On : 12 Jan 2023 13:38
 Operator : JC/MD
 Sample : 01130-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 230111061-02-VOA

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/13/2023
 Supervised By : Mahesh Dadoda 01/13/2023

Quant Time: Jan 13 00:02:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jan 07 06:16:21 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	12105	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	95580	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	100869	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	34067	34.757	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 115.867%#			
60) 4-Bromofluorobenzene	11.079	95	42730	23.504	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 78.333%			
63) Toluene-d8	8.647	98	99063	30.687	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.300%			
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.374	62	444	0.362	ug/l #	83
8) Diethyl Ether	2.130	74	2568	4.170	ug/l	86
16) Carbon Disulfide	2.514	76	1426	0.530	ug/l #	85
22) cis-1,2-Dichloroethene	4.489	96	1352m	0.915	ug/l	
23) tert-Butyl Alcohol	2.989	59	1758943	6975.125	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	8119	2.056	ug/l #	57
34) Benzene	6.038	78	22695	3.781	ug/l	97
45) 1,4-Dioxane	7.702	88	2739	72.384	ug/l #	1
62) Toluene	8.720	91	39564	6.231	ug/l	96
64) Chlorobenzene	10.080	112	4287	1.048	ug/l	93
66) Ethyl Benzene	10.195	91	10829	1.529	ug/l	98
67) m/p-Xylenes	10.299	106	29571	10.581	ug/l	100
68) o-Xylene	10.640	106	19240	7.004	ug/l	96
70) Isopropylbenzene	10.964	105	2447	0.344	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	6097	1.032	ug/l	93
80) 1,2,4-Trimethylbenzene	11.750	105	16144	2.767	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	12306	3.591	ug/l	98
91) Naphthalene	13.774	128	28774	4.303	ug/l	99

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

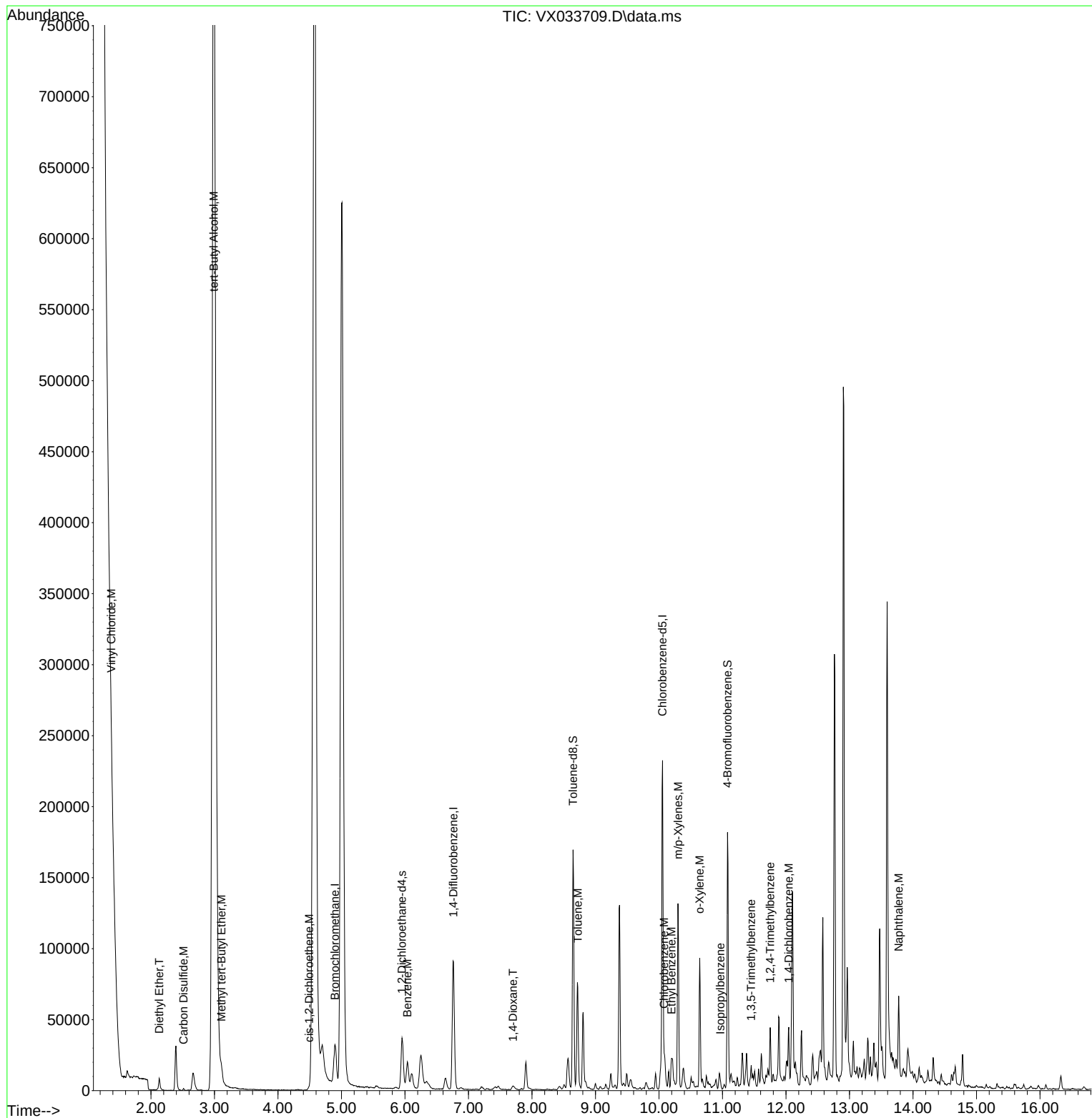
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011223\
Data File : VX033709.D
Acq On : 12 Jan 2023 13:38
Operator : JC/MD
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Misc : 5.0mL/MSVOA_X/WATER
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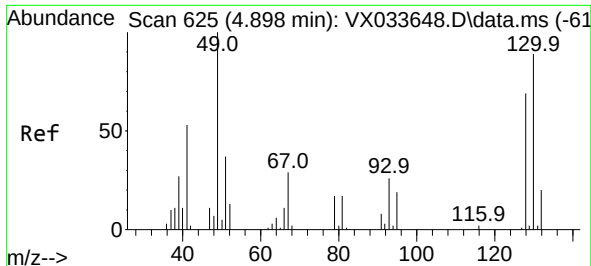
Instrument :
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230111061-02-VOA

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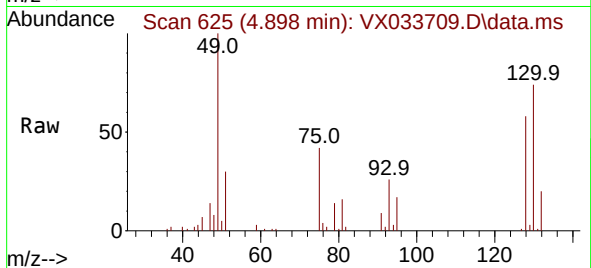
Quant Time: Jan 13 00:02:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jan 07 06:16:21 2023
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.898 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

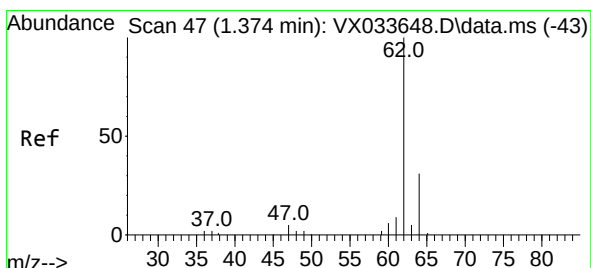
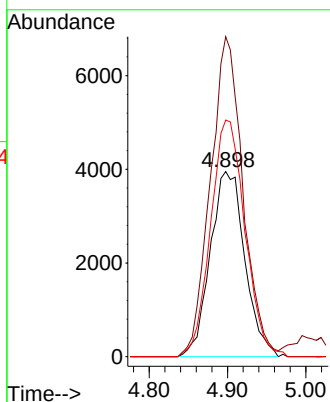
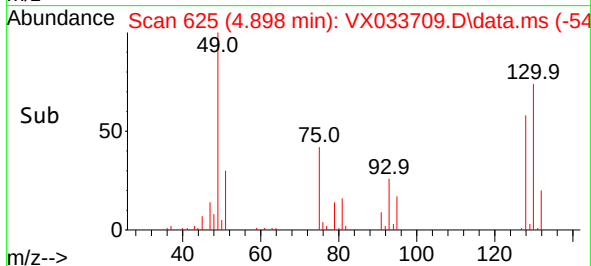
Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA



Tgt Ion:128 Resp: 1210
Ion Ratio Lower Upper
128 100
49 162.7 0.0 398.5
130 127.5 0.0 329.0

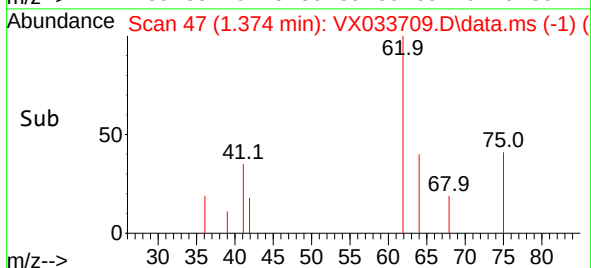
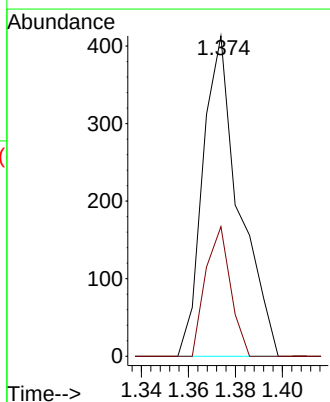
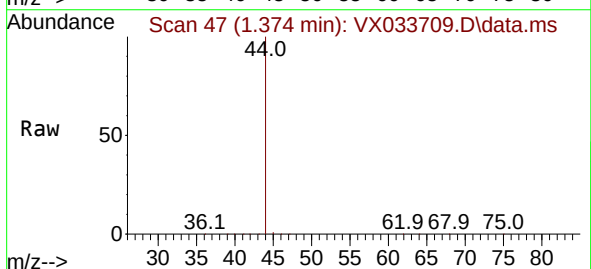
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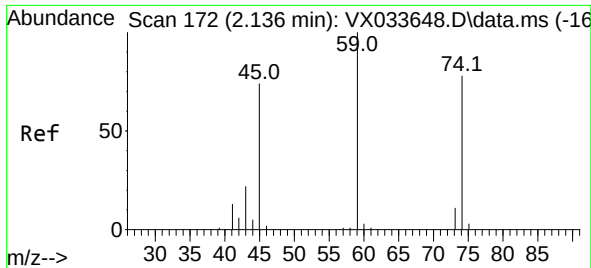
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023



#4
Vinyl Chloride
Concen: 0.362 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

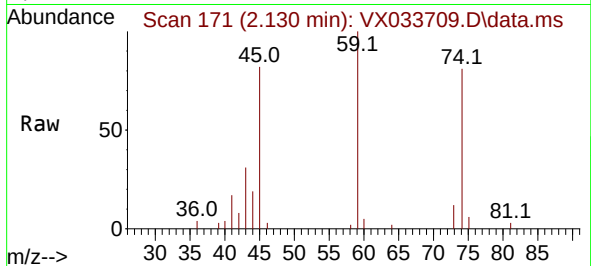
Tgt Ion: 62 Resp: 444
Ion Ratio Lower Upper
62 100
64 40.4 24.9 37.3#





#8
Diethyl Ether
Concen: 4.170 ug/l
RT: 2.130 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

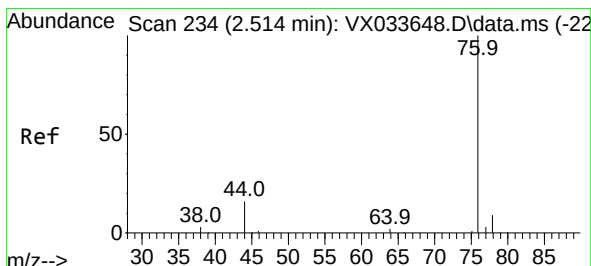
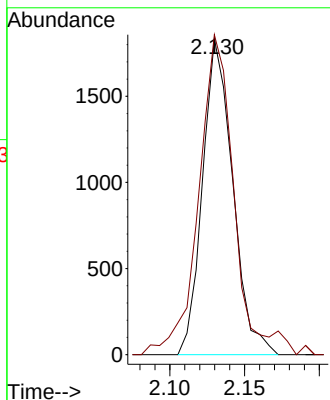
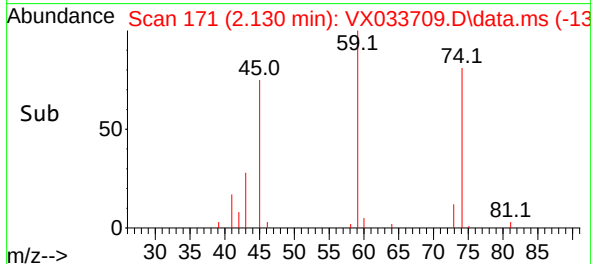
Instrument :
MSVOA_X
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Tgt Ion: 74 Resp: 256
Ion Ratio Lower Upper
74 100
45 115.5 20.3 182.9

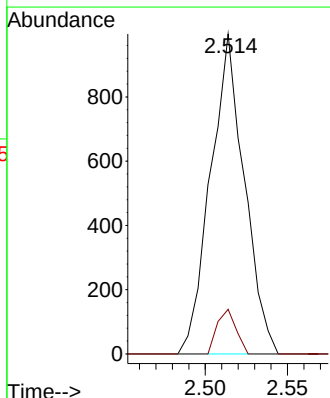
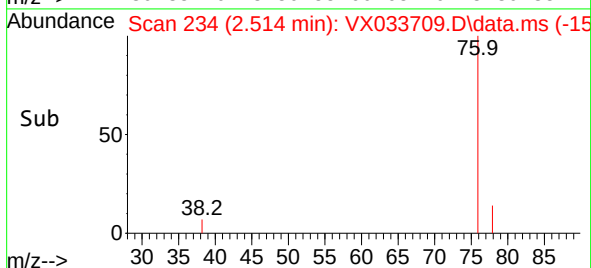
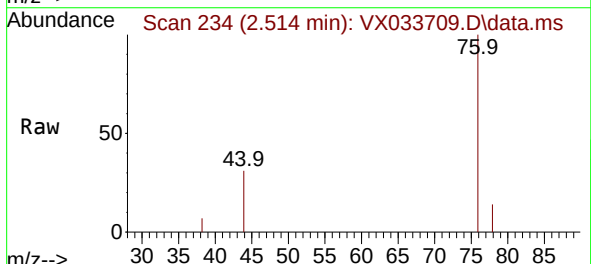
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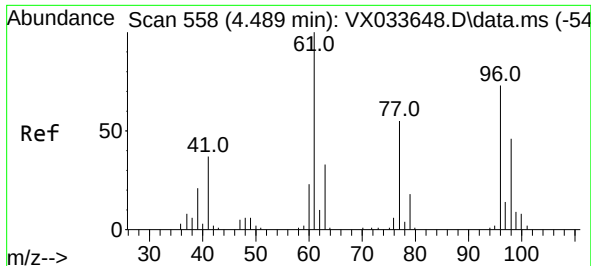
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023



#16
Carbon Disulfide
Concen: 0.530 ug/l
RT: 2.514 min Scan# 234
Delta R.T. 0.000 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

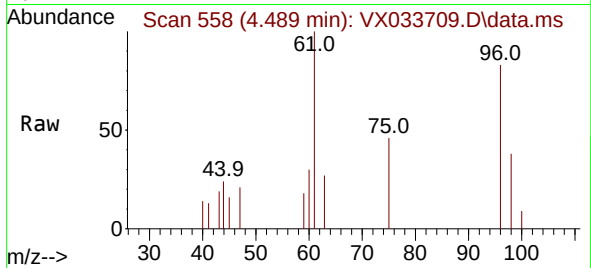
Tgt Ion: 76 Resp: 1426
Ion Ratio Lower Upper
76 100
78 14.0 7.0 10.4#





#22
cis-1,2-Dichloroethene
Concen: 0.915 ug/l m
RT: 4.489 min Scan# 51
Delta R.T. 0.000 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

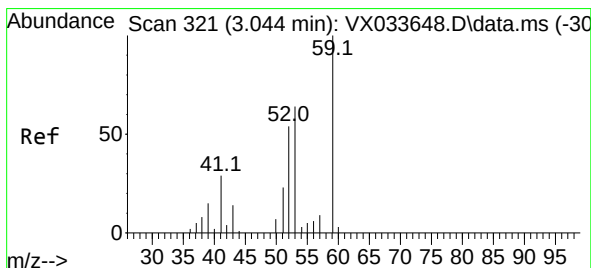
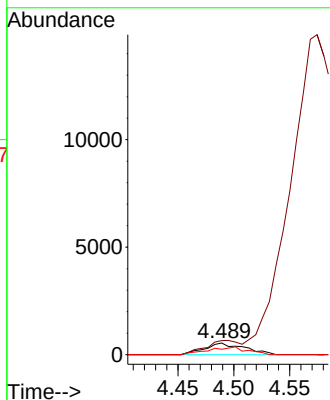
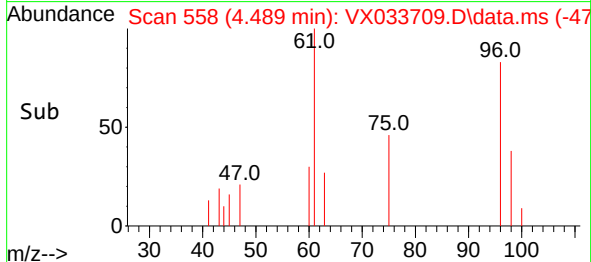
Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA



Tgt Ion: 96 Resp: 1352
Ion Ratio Lower Upper
96 100
61 106.2 114.2 171.2
98 11.4 51.4 77.0

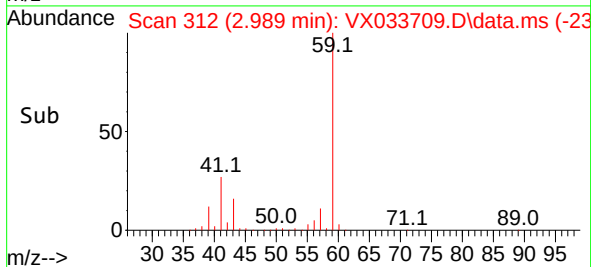
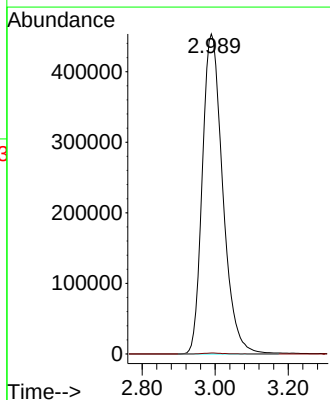
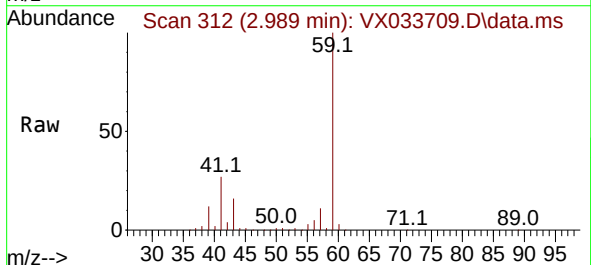
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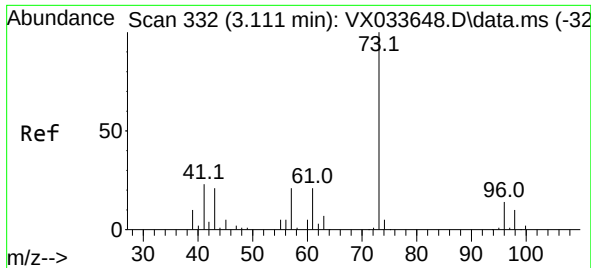
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023



#23
tert-Butyl Alcohol
Concen: 6975.125 ug/l
RT: 2.989 min Scan# 312
Delta R.T. -0.055 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

Tgt Ion: 59 Resp: 1758943
Ion Ratio Lower Upper
59 100
52 0.3 0.2 0.2





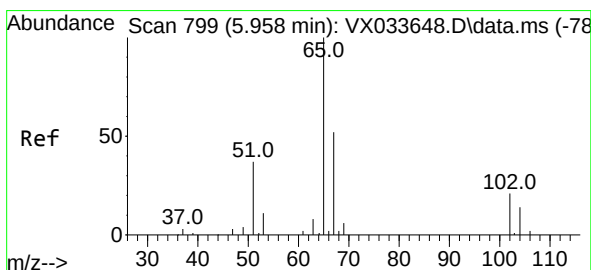
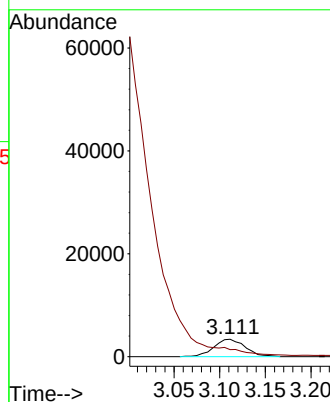
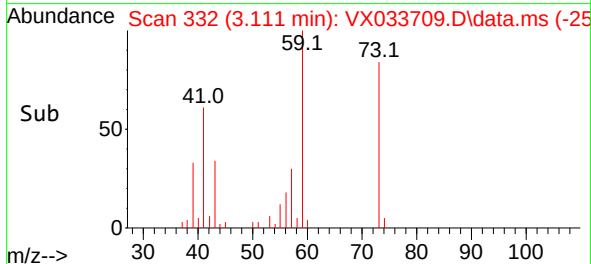
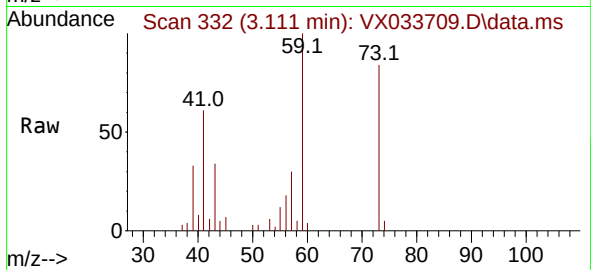
#24
Methyl tert-Butyl Ether
Concen: 2.056 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA

Tgt Ion: 73 Resp: 8119
Ion Ratio Lower Upper
73 100
43 1.9 18.1 27.1

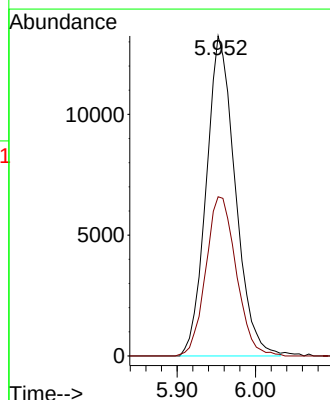
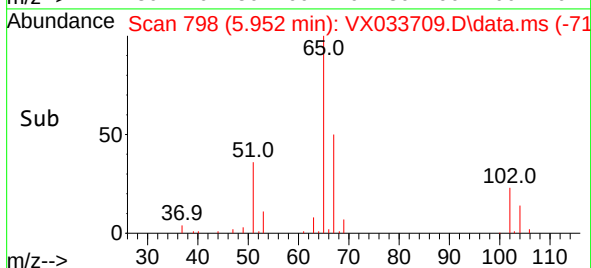
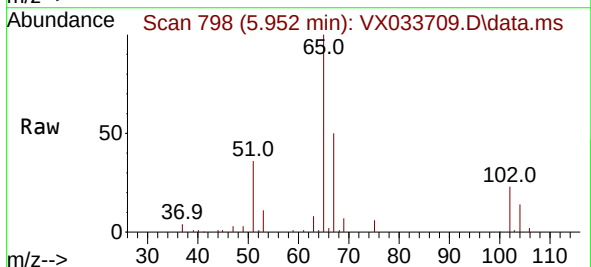
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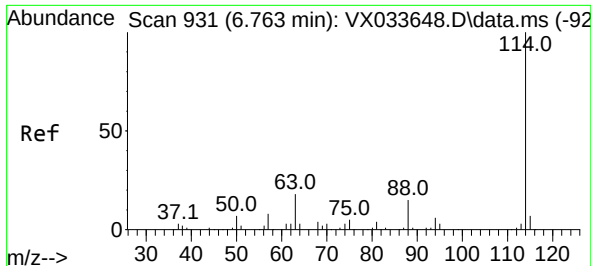
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023



#27
1,2-Dichloroethane-d4
Concen: 34.757 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.006 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

Tgt Ion: 65 Resp: 34067
Ion Ratio Lower Upper
65 100
67 52.1 40.4 60.6





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX033709.D

Acq: 12 Jan 2023 13:38

Instrument :

MSVOA_X

ClientSampleId :

230111061-02-VOA

Tgt Ion:114 Resp: 95580

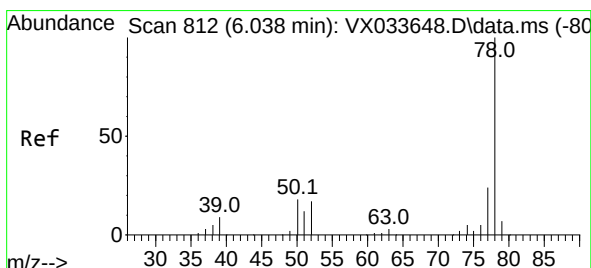
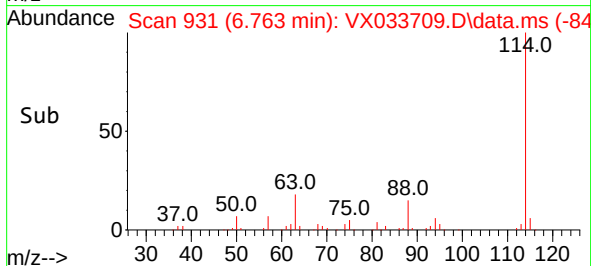
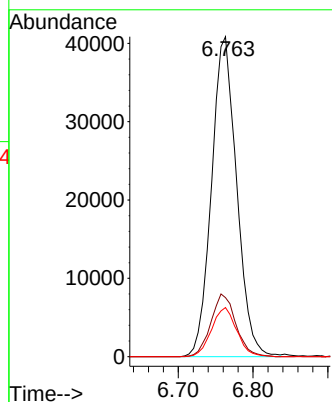
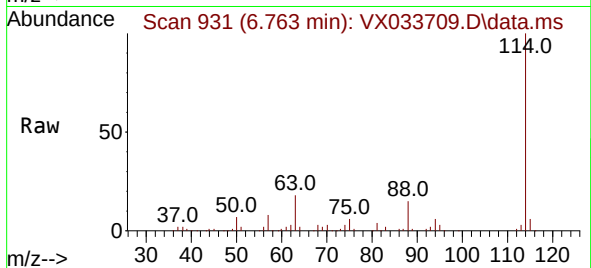
Ion	Ratio	Lower	Upper
114	100		
63	19.5	15.5	23.3
88	15.4	12.4	18.6

Manual Integrations

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Reviewed By :John Carlone 01/13/2023

Supervised By :Mahesh Dadoda 01/13/2023



#34

Benzene

Concen: 3.781 ug/l

RT: 6.038 min Scan# 812

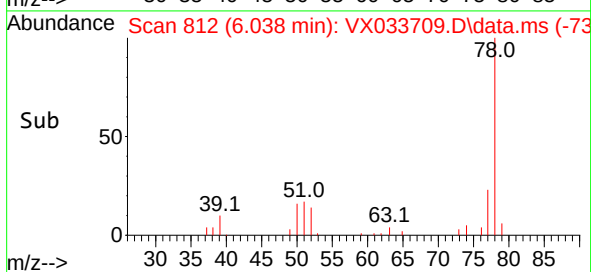
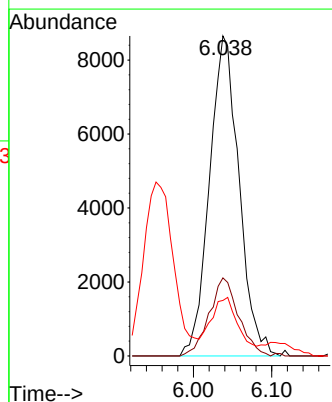
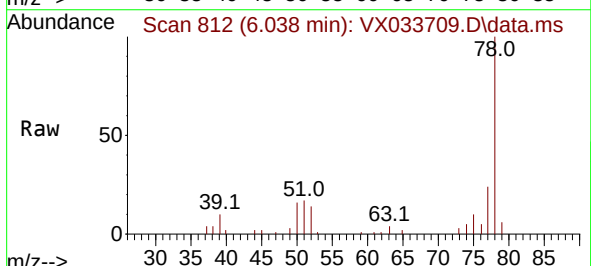
Delta R.T. 0.000 min

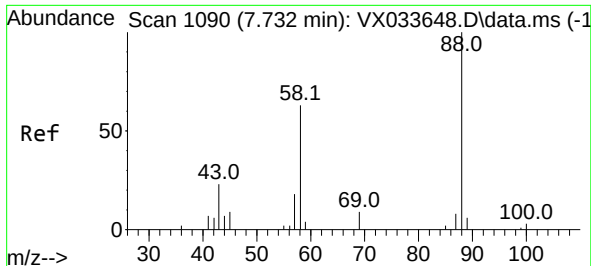
Lab File: VX033709.D

Acq: 12 Jan 2023 13:38

Tgt Ion: 78 Resp: 22695

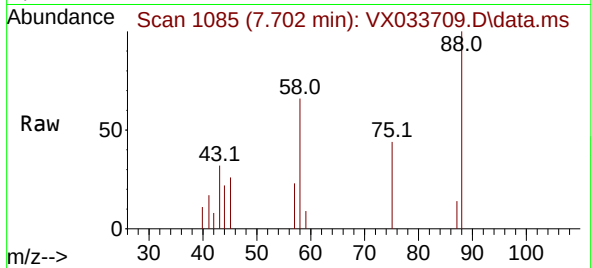
Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.5	29.3
51	13.5	13.0	19.6





#45
1,4-Dioxane
Concen: 72.384 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. -0.030 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

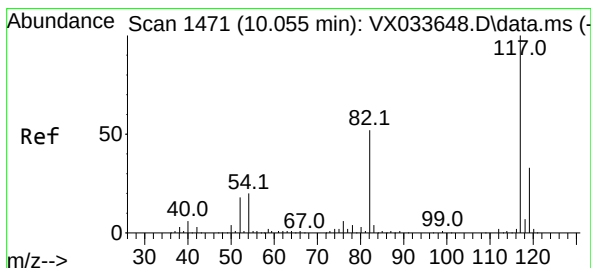
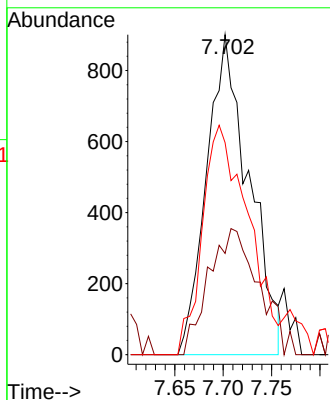
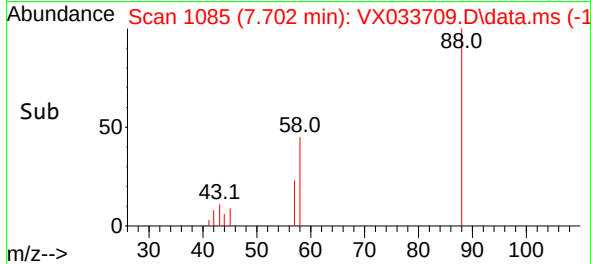
Instrument :
MSVOA_X
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230111061-02-VOA



Tgt Ion: 88 Resp: 2739
Ion Ratio Lower Upper
88 100
43 41.9 1.2 1.8
58 77.9 8.5 12.7

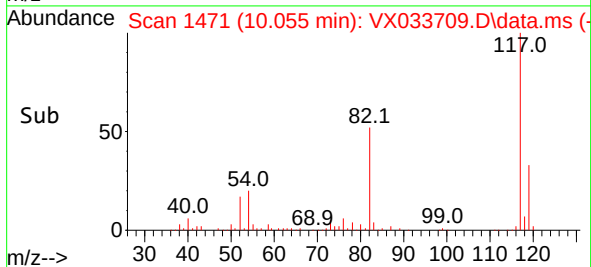
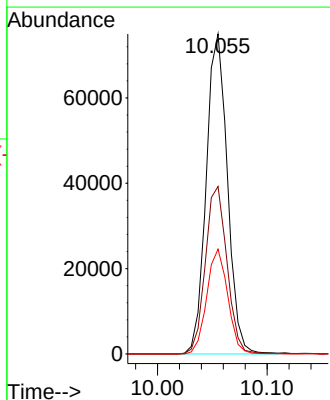
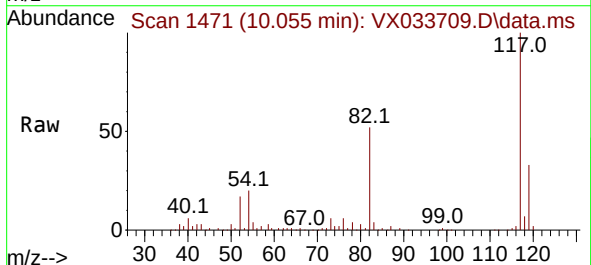
Manual Integrations
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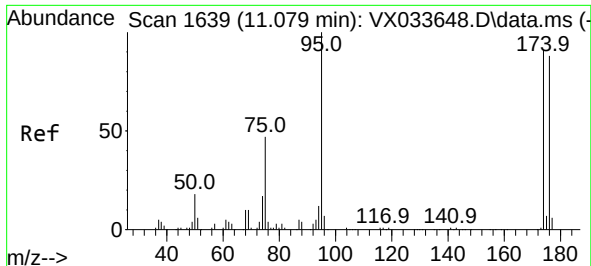
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

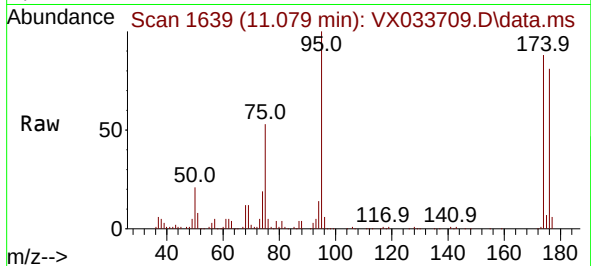
Tgt Ion:117 Resp: 100869
Ion Ratio Lower Upper
117 100
82 53.5 41.9 62.9
119 32.4 25.6 38.4





#60
4-Bromofluorobenzene
Concen: 23.504 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

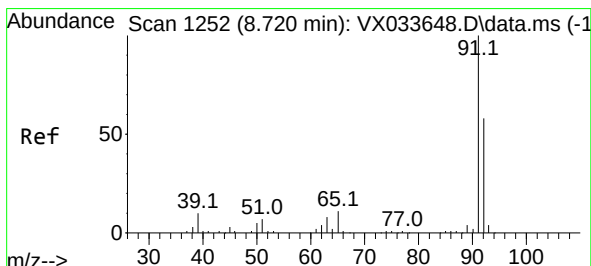
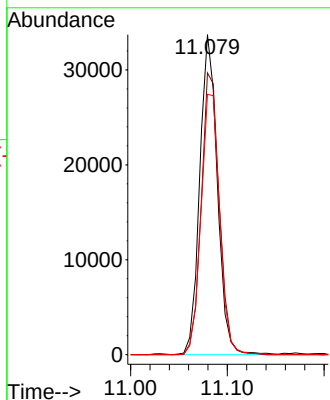
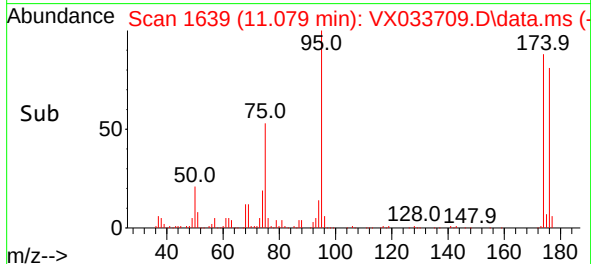
Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA



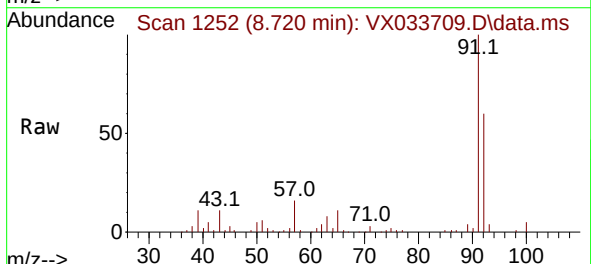
Tgt Ion: 95 Resp: 42730
Ion Ratio Lower Upper
95 100
174 90.3 73.7 110.5
176 86.5 71.0 106.4

Manual Integrations
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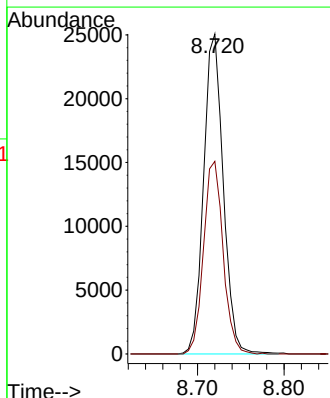
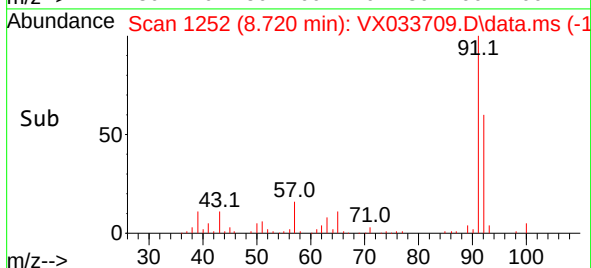
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023

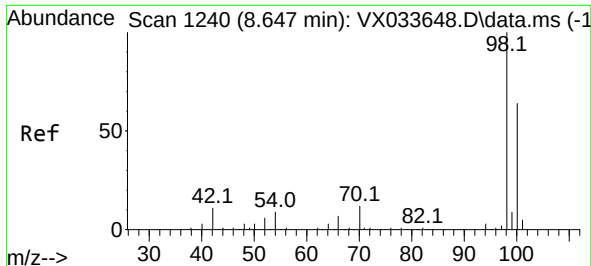


#62
Toluene
Concen: 6.231 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38



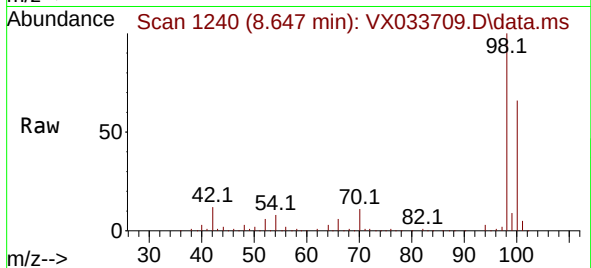
Tgt Ion: 91 Resp: 39564
Ion Ratio Lower Upper
91 100
92 59.9 45.8 68.8





#63
Toluene-d8
Concen: 30.687 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

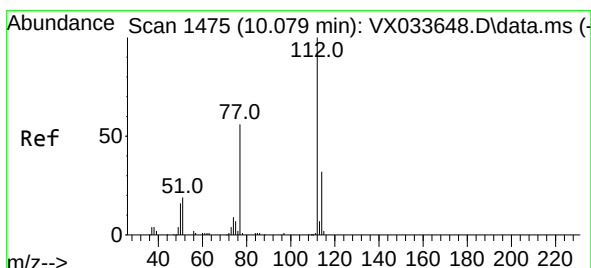
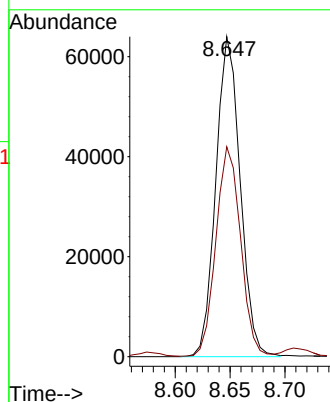
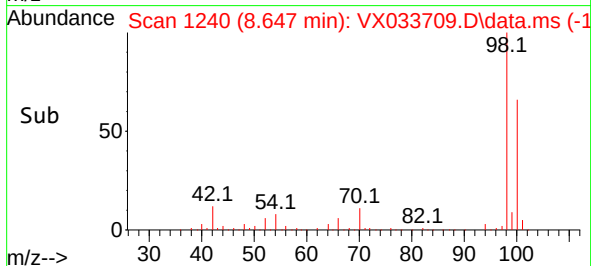
Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA



Tgt Ion: 98 Resp: 9906
Ion Ratio Lower Upper
98 100
100 66.6 53.1 79.7

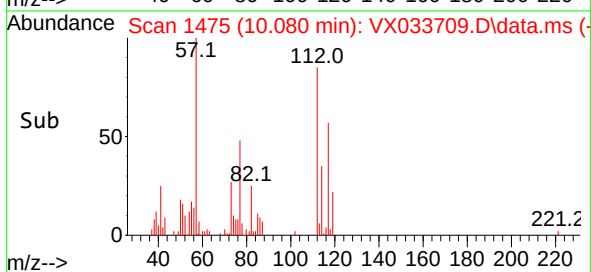
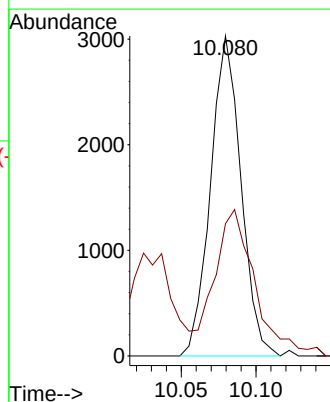
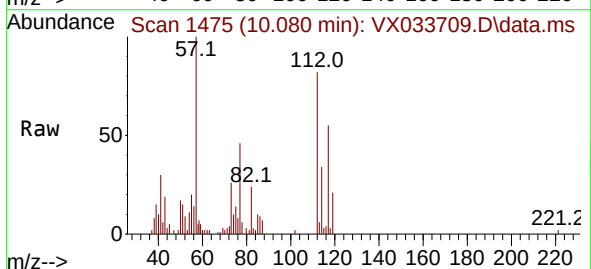
Manual Integrations
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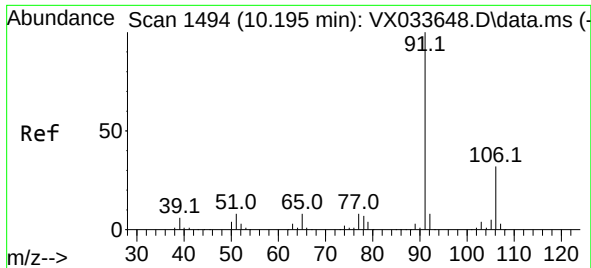
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023



#64
Chlorobenzene
Concen: 1.048 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

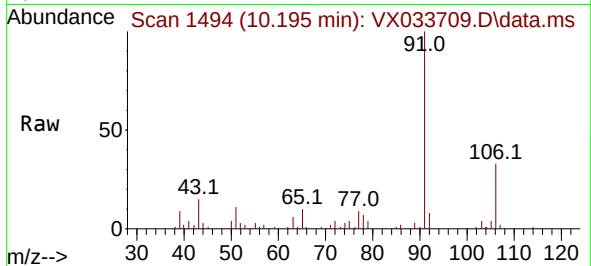
Tgt Ion:112 Resp: 4287
Ion Ratio Lower Upper
112 100
114 36.1 25.6 38.4





#66
Ethyl Benzene
Concen: 1.529 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

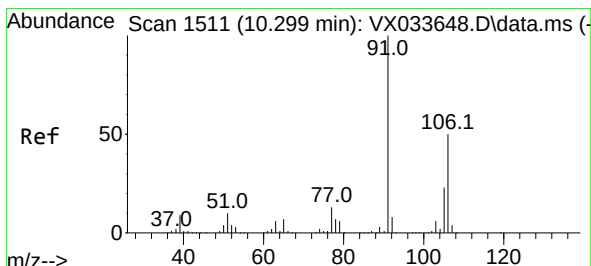
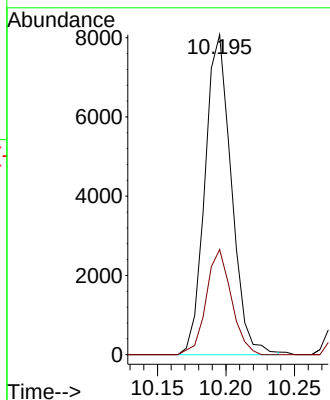
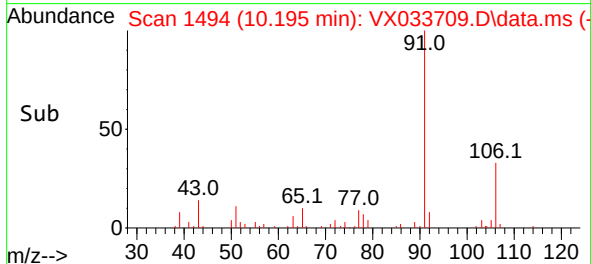
Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA



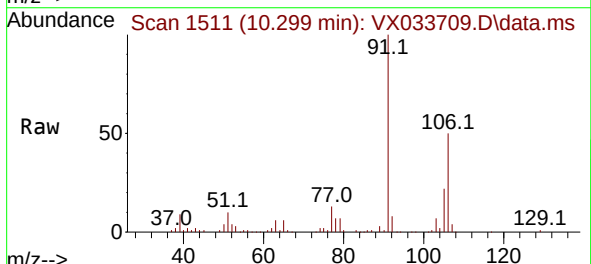
Tgt Ion: 91 Resp: 10829
Ion Ratio Lower Upper
91 100
106 32.8 25.2 37.8

Manual Integrations
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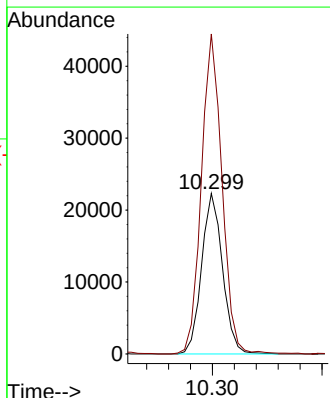
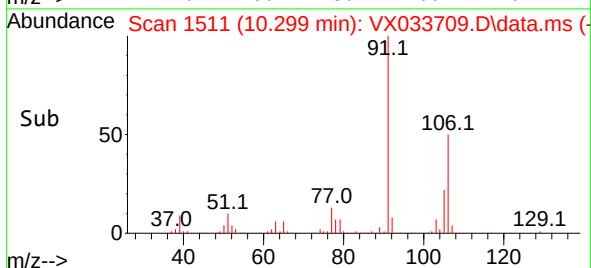
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023

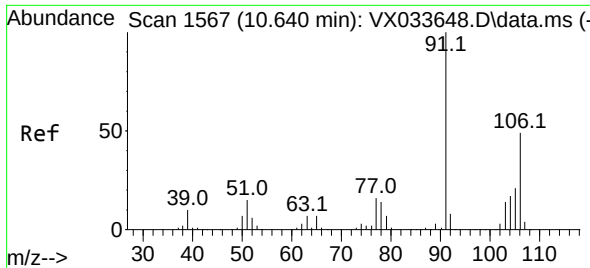


#67
m/p-Xylenes
Concen: 10.581 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38



Tgt Ion:106 Resp: 29571
Ion Ratio Lower Upper
106 100
91 196.6 157.3 235.9





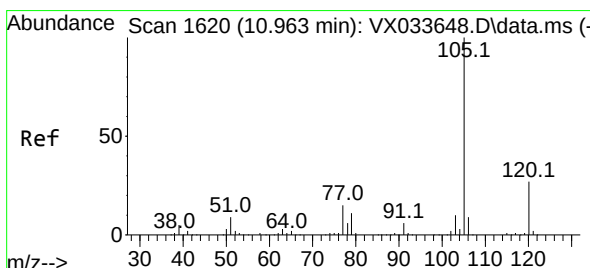
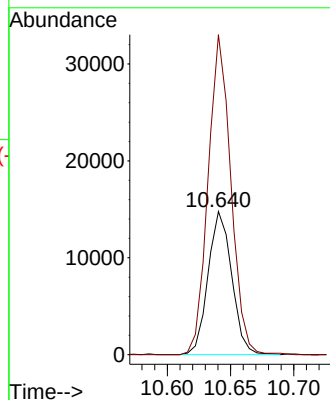
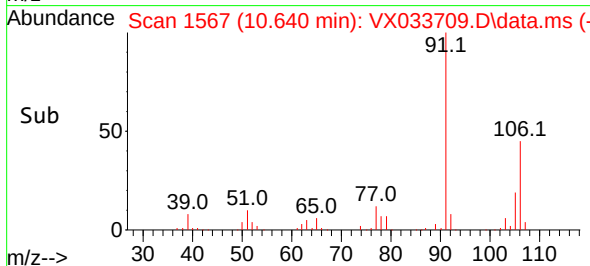
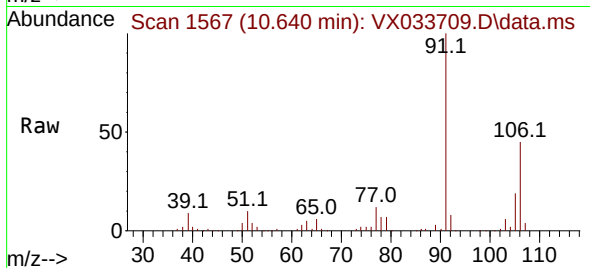
#68
o-Xylene
Concen: 7.004 ug/l
RT: 10.640 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA

Tgt Ion:106 Resp: 19240
Ion Ratio Lower Upper
106 100
91 214.9 104.6 313.8

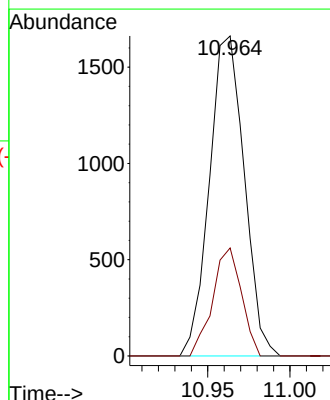
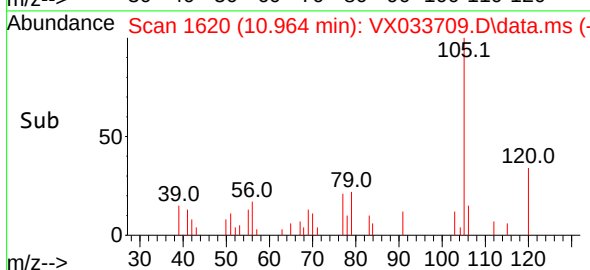
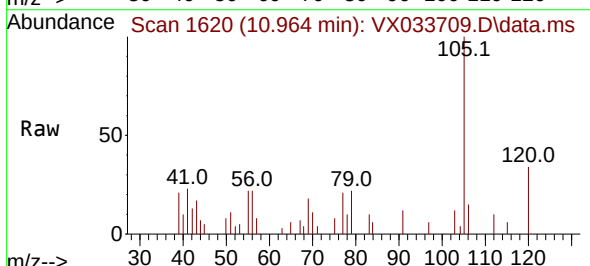
Manual Integrations
APPROVED

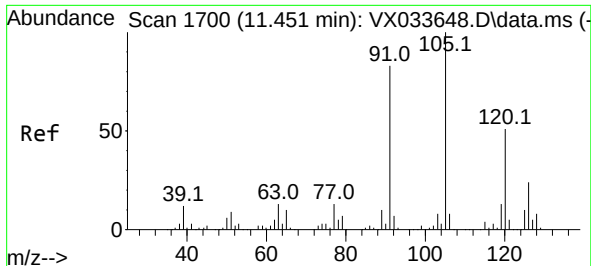
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023



#70
Isopropylbenzene
Concen: 0.344 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

Tgt Ion:105 Resp: 2447
Ion Ratio Lower Upper
105 100
120 28.0 18.7 34.7





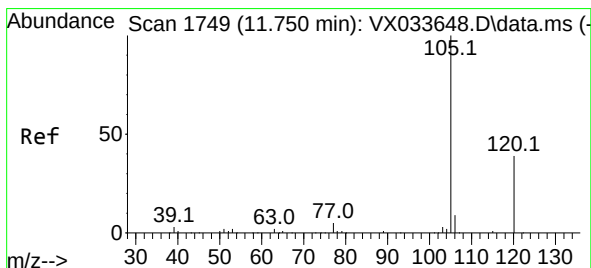
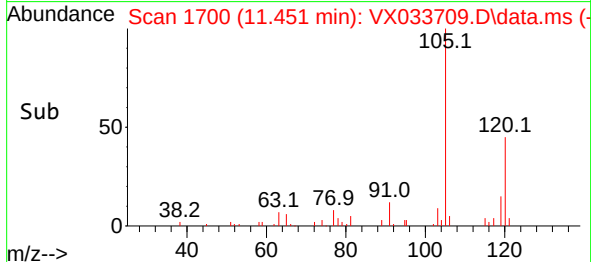
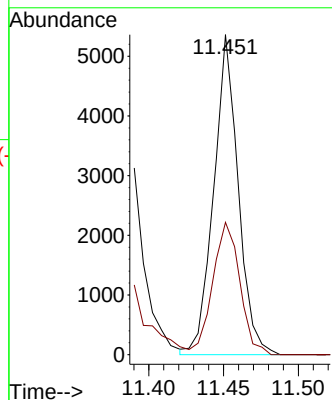
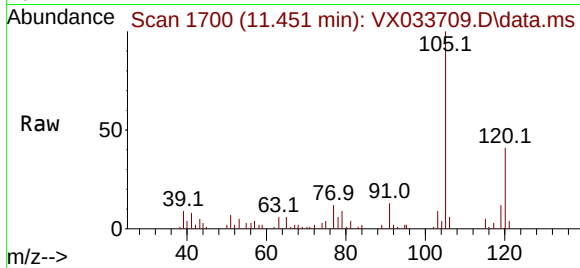
#76
1,3,5-Trimethylbenzene
Concen: 1.032 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA

Tgt Ion:105 Resp: 609
Ion Ratio Lower Upper
105 100
120 45.7 0.0 100.4

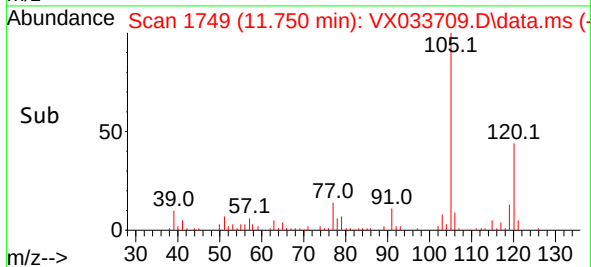
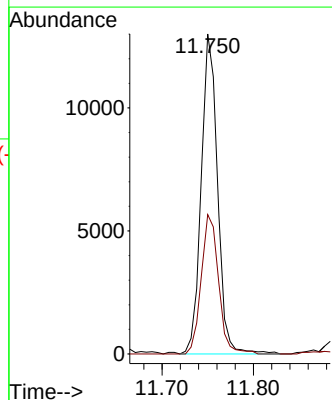
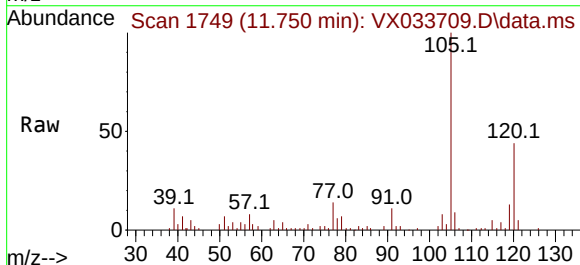
Manual Integrations
APPROVED

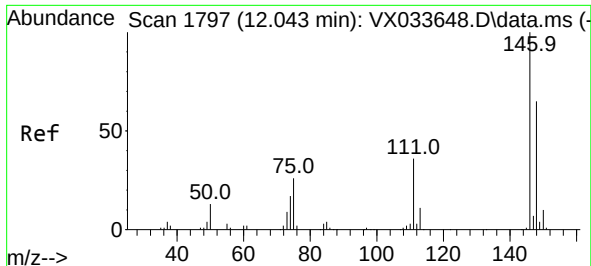
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023



#80
1,2,4-Trimethylbenzene
Concen: 2.767 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

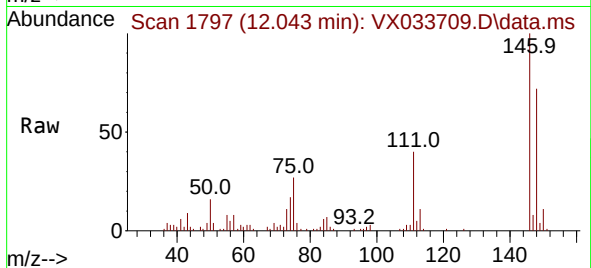
Tgt Ion:105 Resp: 16144
Ion Ratio Lower Upper
105 100
120 46.2 0.0 91.2





#84
1,4-Dichlorobenzene
Concen: 3.591 ug/l
RT: 12.043 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38

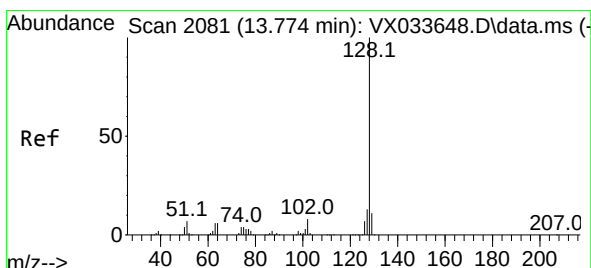
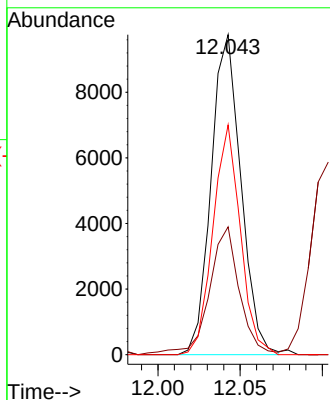
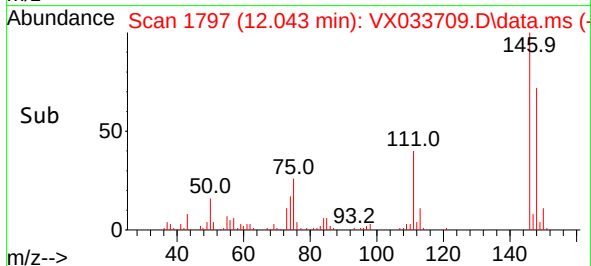
Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA



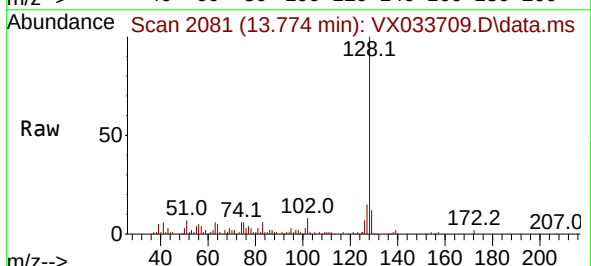
Tgt Ion:146 Resp: 12300
Ion Ratio Lower Upper
146 100
111 37.0 18.3 54.9
148 66.0 31.9 95.7

Manual Integrations
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Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023



#91
Naphthalene
Concen: 4.303 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX033709.D
Acq: 12 Jan 2023 13:38



Tgt Ion:128 Resp: 28774
Ion Ratio Lower Upper
128 100
127 13.6 10.4 15.6
129 11.0 8.8 13.2

