

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU091423\
 Data File : VU055304.D
 Acq On : 14 Sep 2023 12:53
 Operator : MD/SY
 Sample : 04380-18
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BH4N9

Quant Time: Sep 15 03:01:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR090123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Sep 15 02:53:52 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone
 09/15/2023
 Supervised By :Mahesh
 Dadoda
 09/18/2023

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

Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	206015	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	214841	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.811	152	108865	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	31127	3.224	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	64.400%
7) Chloroethane-d5	1.911	69	40215	3.598	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	72.000%
11) 1,1-Dichloroethene-d2	2.563	65	16313	2.965	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.400%#
20) 2-Butanone-d5	4.640	46	140218	50.043	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.080%
24) Chloroform-d	5.062	84	106144	4.143	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.800%
26) 1,2-Dichloroethane-d4	5.702	65	53317	4.159	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.200%
32) Benzene-d6	5.727	84	190962	3.601	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	72.000%
36) 1,2-Dichloropropane-d6	6.692	67	65138	3.862	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	77.200%
41) Toluene-d8	7.894	98	162828	3.333	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	66.600%#
43) trans-1,3-Dichloroprop...	8.181	79	14707	3.166	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	63.400%
46) 2-Hexanone-d5	8.634	63	86959	46.113	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.220%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	53185	4.484	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.600%
66) 1,2-Dichlorobenzene-d4	12.190	152	65767	4.139	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	82.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.515	50	2217	0.182	ug/L	98
5) Vinyl chloride	1.602	62	495416	38.532	ug/L	96
10) 1,1,2-Trichloro-1,2,2-...	2.576	101	26307	2.418	ug/L	95
12) 1,1-Dichloroethene	2.576	96	1036074	108.781	ug/L #	66
17) Methyl tert-butyl Ether	3.367	73	15553	0.623	ug/L #	89
18) trans-1,2-Dichloroethene	3.351	96	116884	12.096	ug/L	88
19) 1,1-Dichloroethane	3.866	63	557843	26.712	ug/L	99
22) cis-1,2-Dichloroethene	4.653	96	20862517m	1763.699	ug/L	
25) Chloroform	5.084	83	65546	3.014	ug/L	96
27) 1,2-Dichloroethane	5.798	62	12435	0.937	ug/L #	95
30) Cyclohexane	5.390	56	7898	0.478	ug/L	98
33) Benzene	5.772	78	44969	0.983	ug/L	100
34) Trichloroethene	6.531	95	35082489m	2760.728	ug/L	
45) 1,1,2-Trichloroethane	8.396	97	80541	9.606	ug/L	95
47) Tetrachloroethene	8.550	164	668929	76.163	ug/L	98
51) Chlorobenzene	9.444	112	360738	11.174	ug/L	98
64) 1,3-Dichlorobenzene	11.743	146	87872	3.606	ug/L	98
65) 1,4-Dichlorobenzene	11.833	146	157808	6.497	ug/L	97
67) 1,2-Dichlorobenzene	12.209	146	94934	4.155	ug/L	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 1,2,4-trichlorobenzene	13.836	180	426432	24.693	ug/L	97
72) 1,2,3-Trichlorobenzene	14.325	180	107316	7.160	ug/L	98

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

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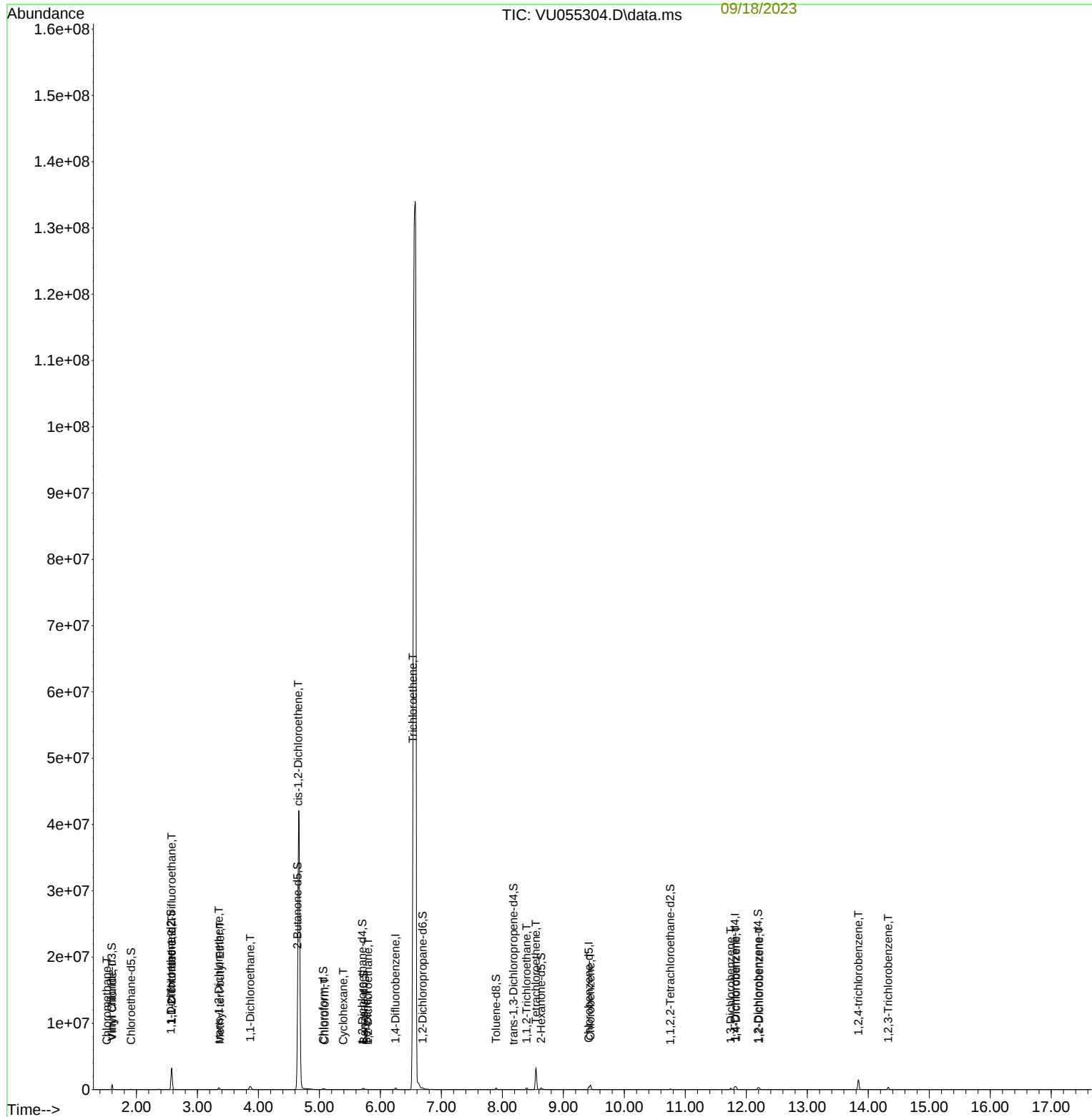
Instrument :
MSVOA_U
ClientSampleId :
BH4N9

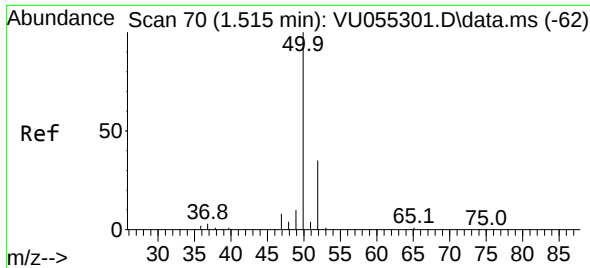
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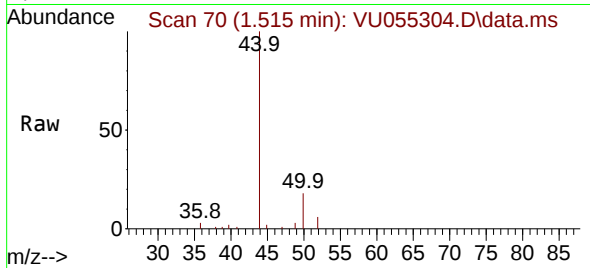
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#3
Chloromethane
Concen: 0.182 ug/L
RT: 1.515 min Scan# 70
Delta R.T. 0.000 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

Instrument :
MSVOA_U
ClientSampleId :
BH4N9

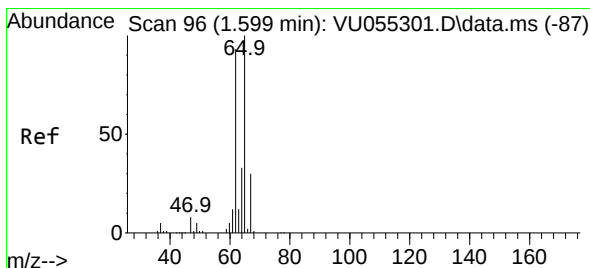
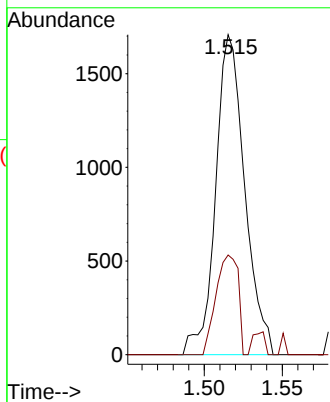
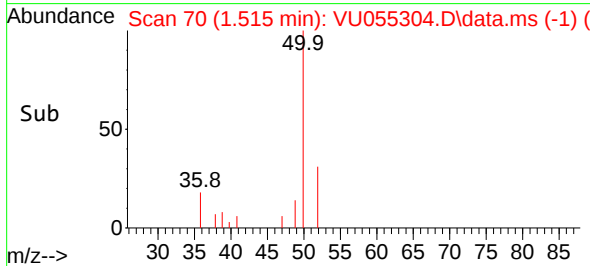


Tgt Ion: 50 Resp: 221
Ion Ratio Lower Upper
50 100
52 31.1 22.5 41.7

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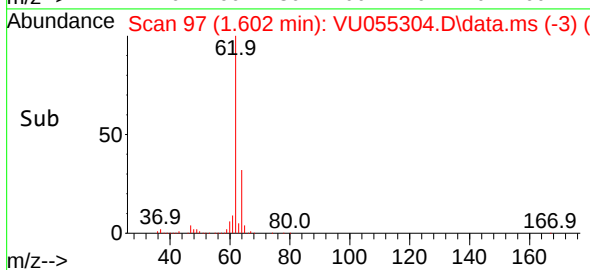
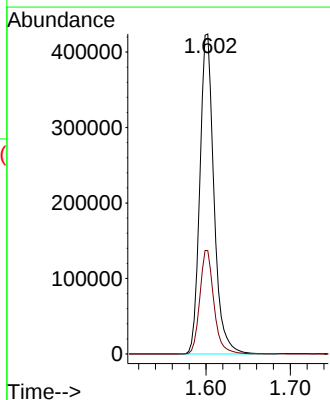
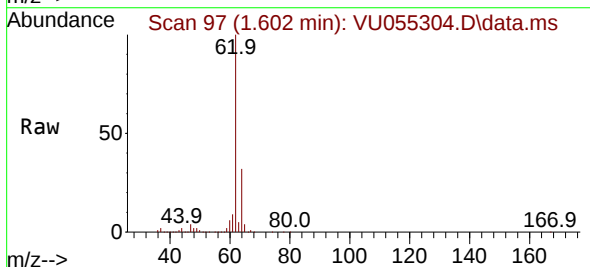
Reviewed By :John
Carlone
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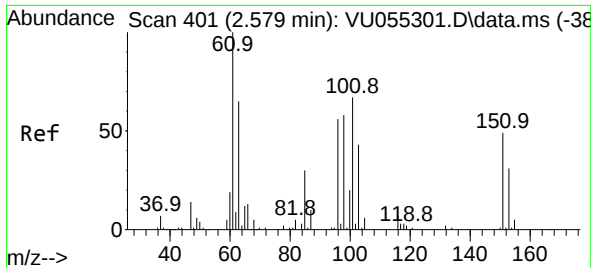
Supervised By :Mahesh
Dadoda
09/18/2023



#5
Vinyl chloride
Concen: 38.532 ug/L
RT: 1.602 min Scan# 97
Delta R.T. 0.003 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

Tgt Ion: 62 Resp: 495416
Ion Ratio Lower Upper
62 100
64 32.3 24.2 45.0





#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 2.418 ug/L
RT: 2.576 min Scan# 401
Delta R.T. -0.003 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

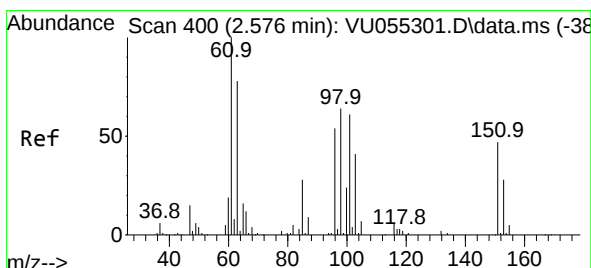
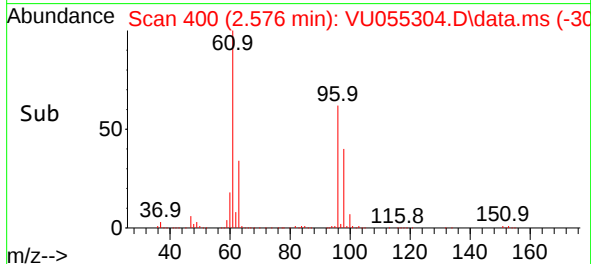
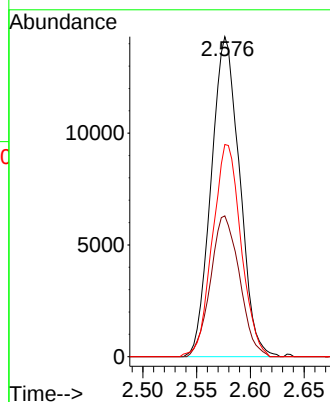
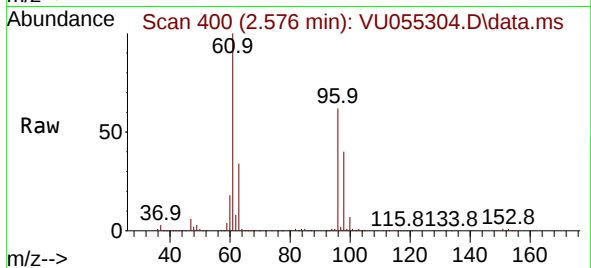
Instrument :
MSVOA_U
ClientSampleId :
BH4N9

Tgt Ion:101 Resp: 2630
Ion Ratio Lower Upper
101 100
85 44.8 37.3 55.9
151 66.6 57.6 86.4

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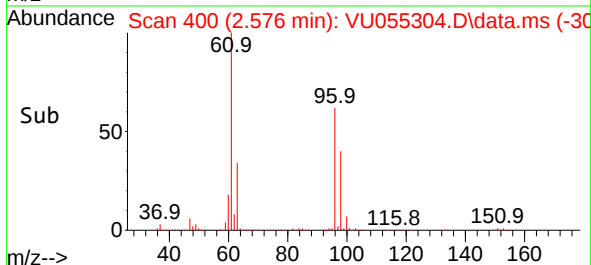
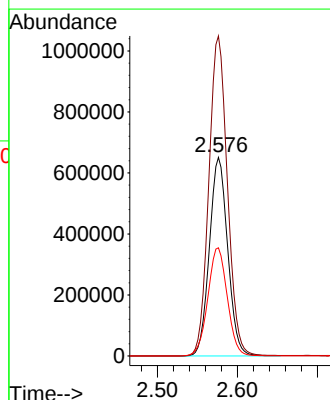
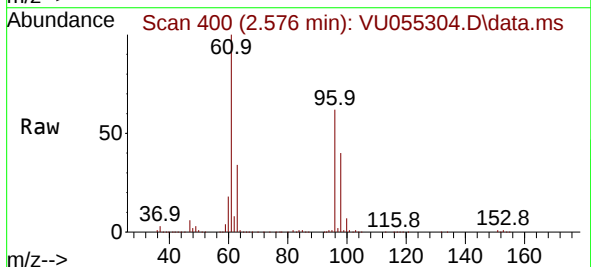
Reviewed By :John
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09/15/2023

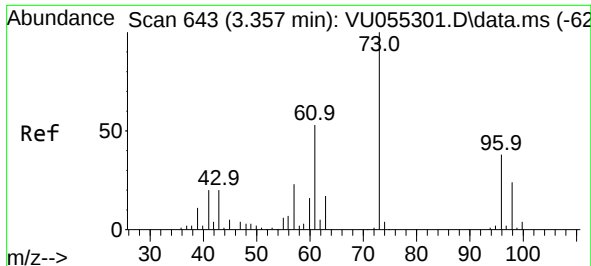
Supervised By :Mahesh
Dadoda
09/18/2023



#12
1,1-Dichloroethene
Concen: 108.781 ug/L
RT: 2.576 min Scan# 400
Delta R.T. 0.000 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

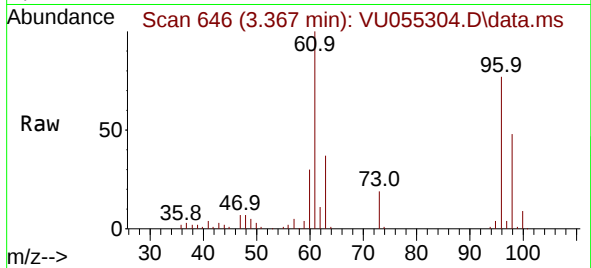
Tgt Ion: 96 Resp: 1036074
Ion Ratio Lower Upper
96 100
61 161.1 120.8 224.4
63 54.5 94.5 175.5#





#17
Methyl tert-butyl Ether
Concen: 0.623 ug/L
RT: 3.367 min Scan# 643
Delta R.T. 0.010 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

Instrument :
MSVOA_U
ClientSampleId :
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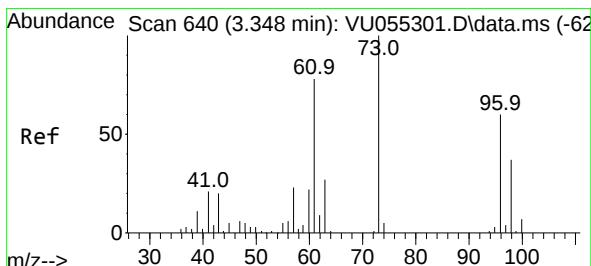
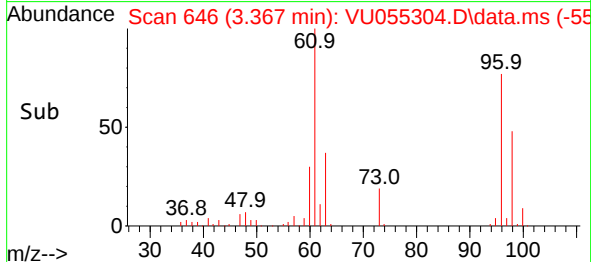
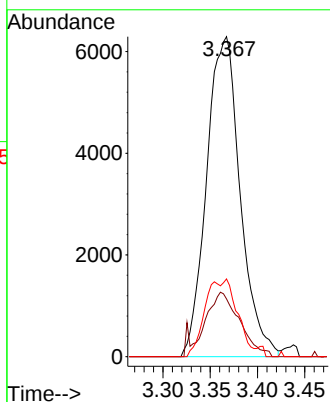


Tgt Ion: 73 Resp: 1555
Ion Ratio Lower Upper
73 100
43 19.7 16.2 24.2
57 12.0 17.4 26.2

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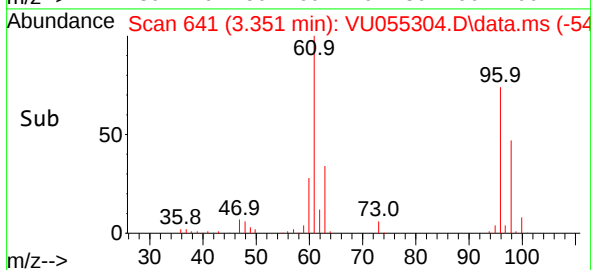
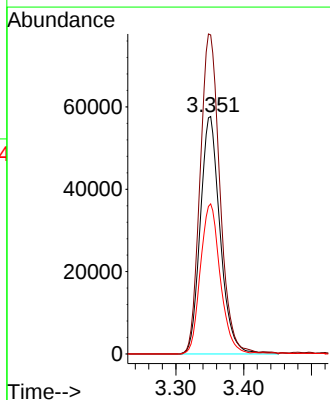
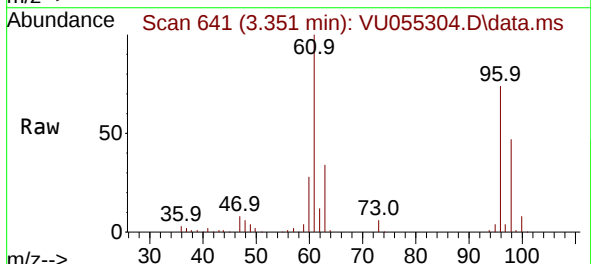
Reviewed By :John
Carlone
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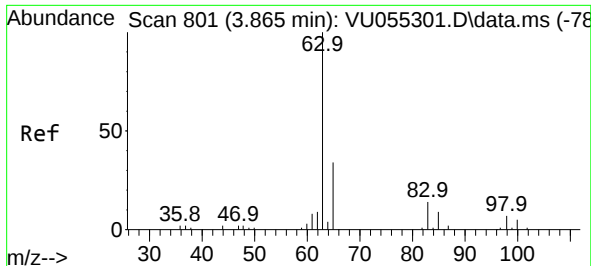
Supervised By :Mahesh
Dadoda
09/18/2023



#18
trans-1,2-Dichloroethene
Concen: 12.096 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

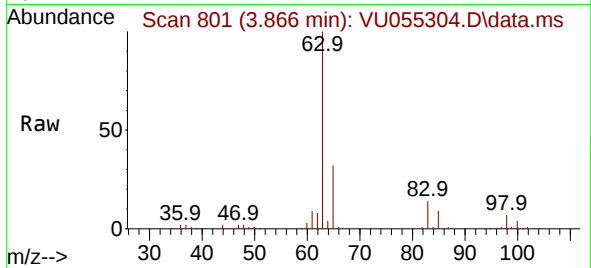
Tgt Ion: 96 Resp: 116884
Ion Ratio Lower Upper
96 100
61 134.4 108.1 200.9
98 63.2 45.4 84.4





#19
1,1-Dichloroethane
Concen: 26.712 ug/L
RT: 3.866 min Scan# 801
Delta R.T. 0.000 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

Instrument :
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ClientSampleId :
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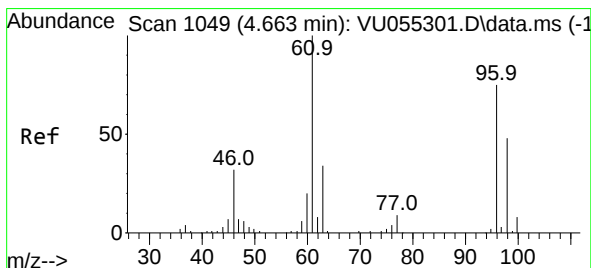
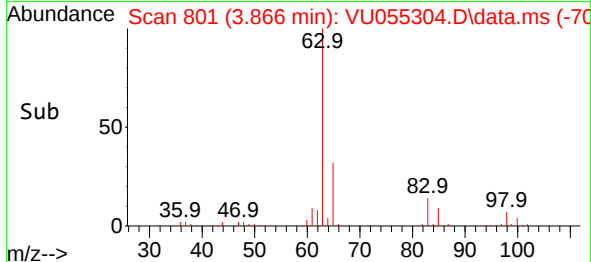
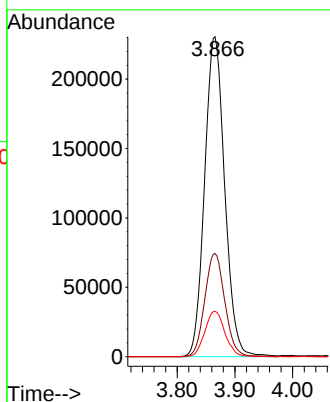


Tgt Ion: 63 Resp: 55784
Ion Ratio Lower Upper
63 100
65 32.3 22.2 41.2
83 14.2 10.6 19.8

Manual Integrations
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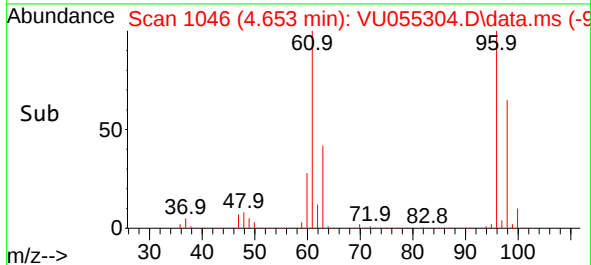
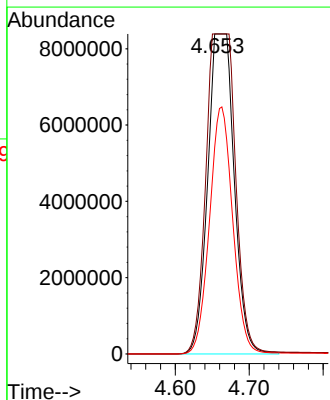
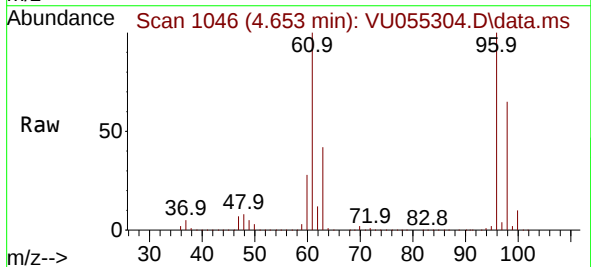
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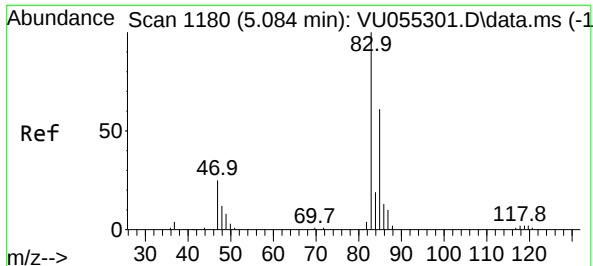
Supervised By :Mahesh
Dadoda
09/18/2023



#22
cis-1,2-Dichloroethene
Concen: 1763.699 ug/L m
RT: 4.653 min Scan# 1046
Delta R.T. -0.010 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

Tgt Ion: 96 Resp:20862517
Ion Ratio Lower Upper
96 100
61 100.0 97.2 180.4
98 64.6 46.1 85.7





#25

Chloroform

Concen: 3.014 ug/L

RT: 5.084 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VU055304.D

Acq: 14 Sep 2023 12:53

Instrument :

MSVOA_U

ClientSampleId :

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Tgt Ion: 83 Resp: 65540

Ion Ratio Lower Upper

83 100

85 64.3 47.2 87.6

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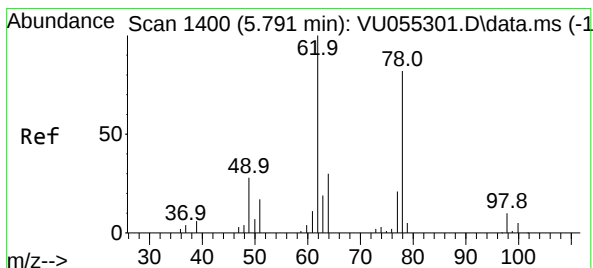
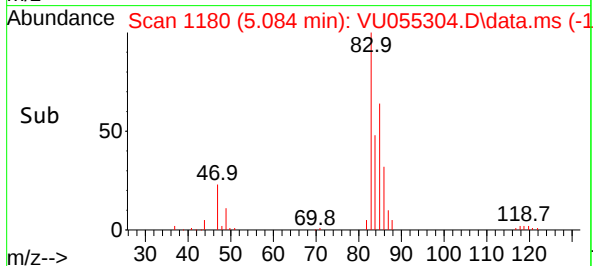
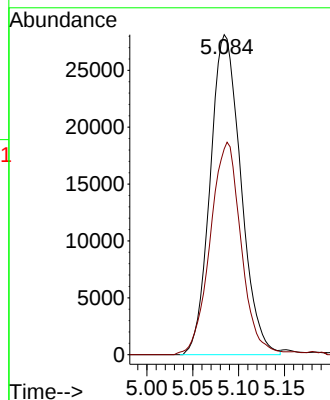
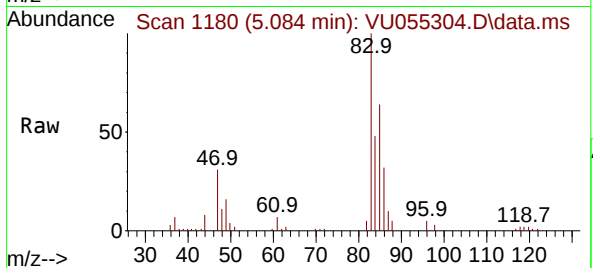
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09/18/2023



#27

1,2-Dichloroethane

Concen: 0.937 ug/L

RT: 5.798 min Scan# 1402

Delta R.T. 0.007 min

Lab File: VU055304.D

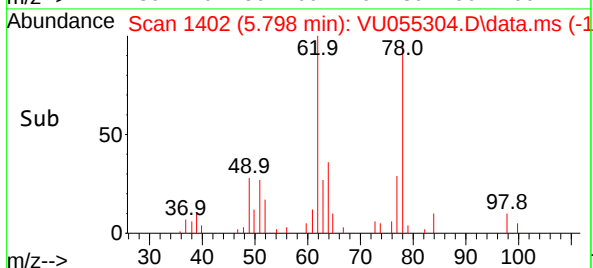
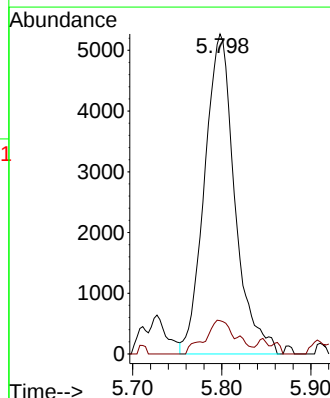
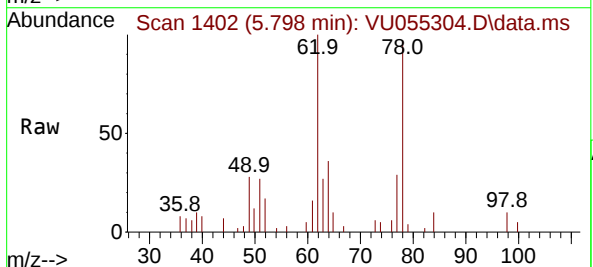
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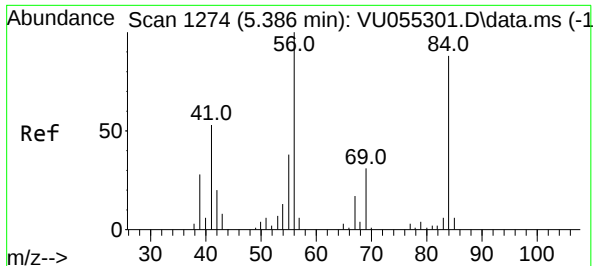
Tgt Ion: 62 Resp: 12435

Ion Ratio Lower Upper

62 100

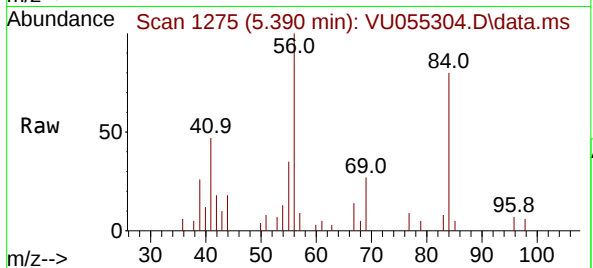
98 10.4 6.9 10.3#





#30
Cyclohexane
Concen: 0.478 ug/L
RT: 5.390 min Scan# 1275
Delta R.T. 0.003 min
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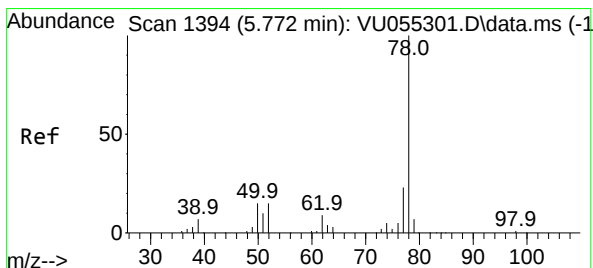
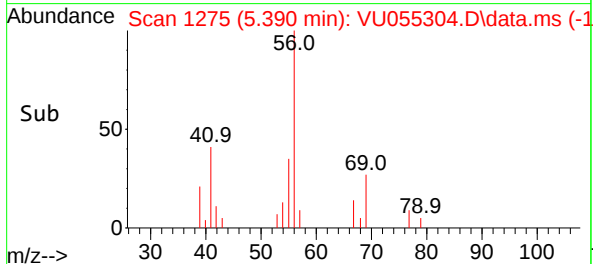
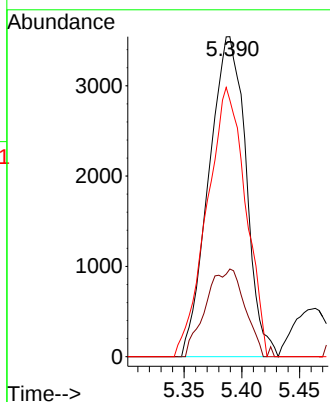


Tgt Ion: 56 Resp: 789
Ion Ratio Lower Upper
56 100
69 28.8 24.6 37.0
84 87.8 68.8 103.2

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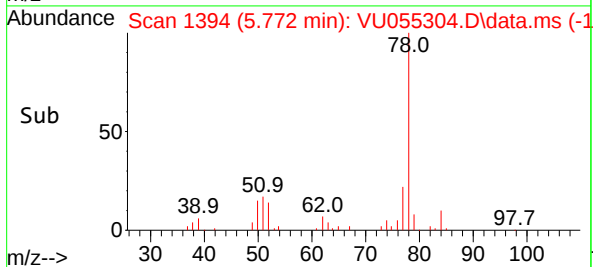
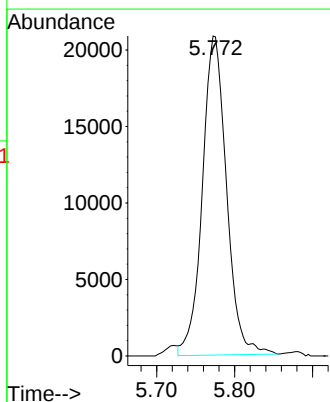
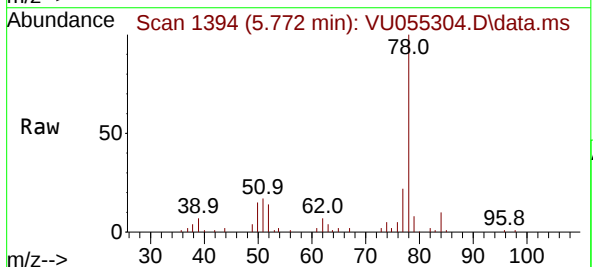
Reviewed By :John
Carlone
09/15/2023

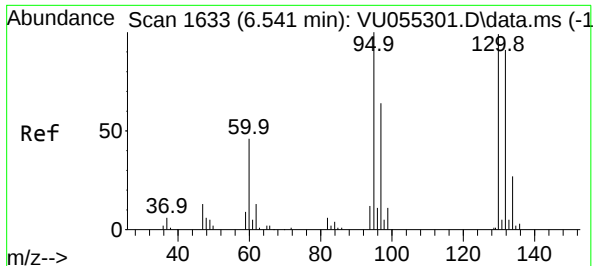
Supervised By :Mahesh
Dadoda
09/18/2023



#33
Benzene
Concen: 0.983 ug/L
RT: 5.772 min Scan# 1394
Delta R.T. 0.000 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

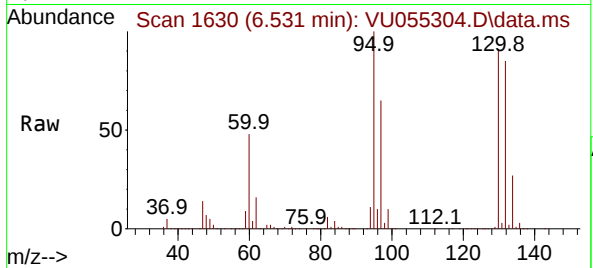
Tgt Ion: 78 Resp: 44969





#34
Trichloroethene
Concen: 2760.728 ug/L m
RT: 6.531 min Scan# 1
Delta R.T. -0.010 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

Instrument :
MSVOA_U
ClientSampleId :
BH4N9

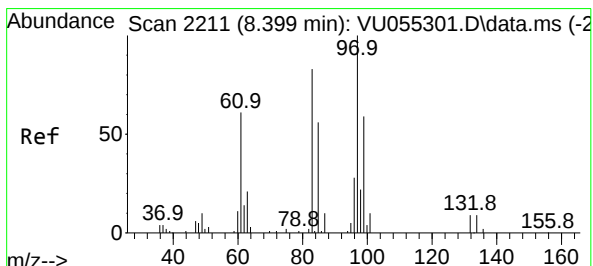
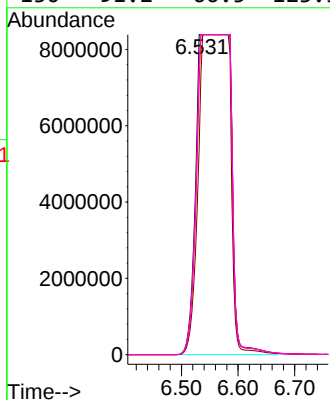
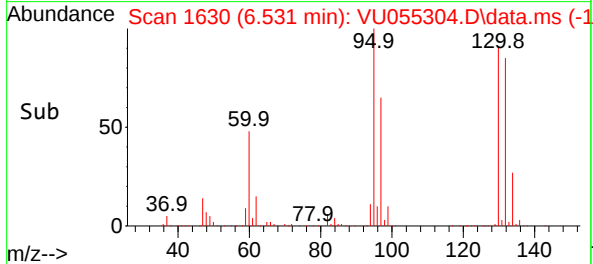


Tgt Ion: 95 Resp: 35082489
Ion Ratio Lower Upper
95 100
97 64.6 44.7 83.1
132 85.2 66.6 123.6
130 91.2 66.5 123.5

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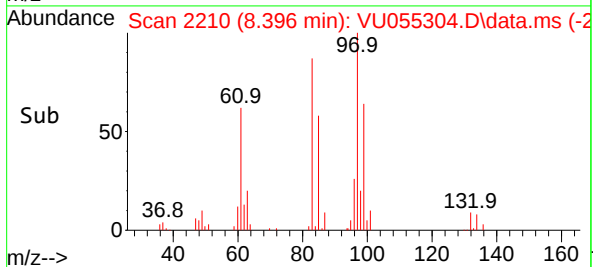
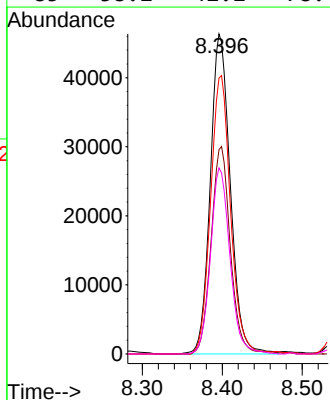
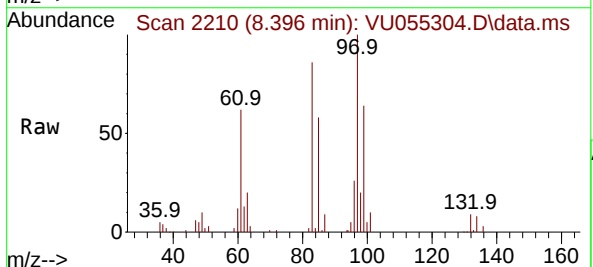
Reviewed By :John
Carlone
09/15/2023

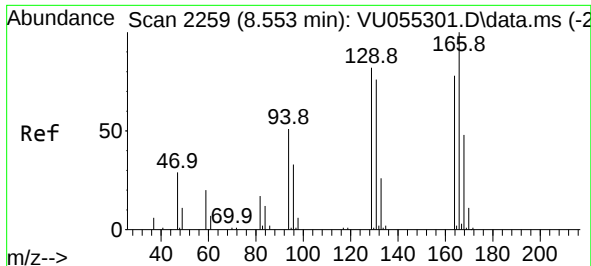
Supervised By :Mahesh
Dadoda
09/18/2023



#45
1,1,2-Trichloroethane
Concen: 9.606 ug/L
RT: 8.396 min Scan# 2210
Delta R.T. -0.003 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

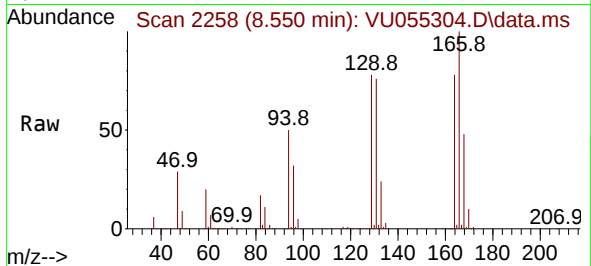
Tgt Ion: 97 Resp: 80541
Ion Ratio Lower Upper
97 100
99 63.9 44.9 83.5
83 86.3 66.9 124.3
85 58.2 42.2 78.4





#47
Tetrachloroethene
Concen: 76.163 ug/L
RT: 8.550 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

Instrument :
MSVOA_U
ClientSampleId :
BH4N9

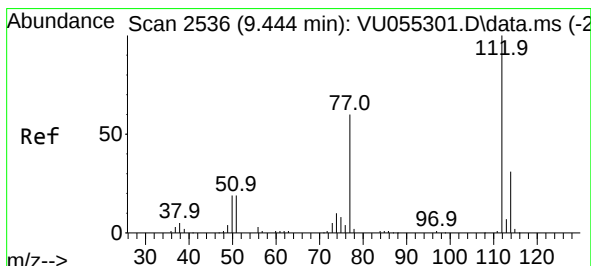
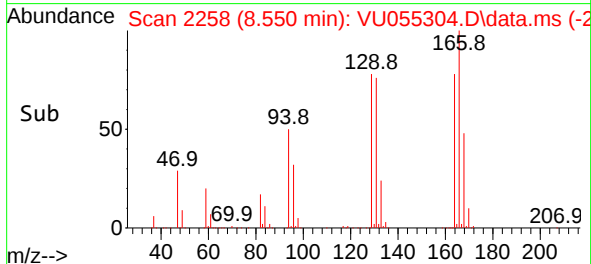
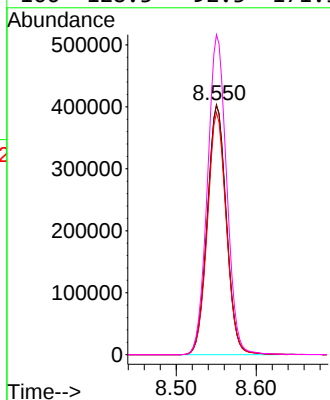


Tgt Ion:164 Resp: 668929
Ion Ratio Lower Upper
164 100
129 100.3 69.2 128.6
131 97.1 68.8 127.8
166 128.3 92.3 171.5

Manual Integrations
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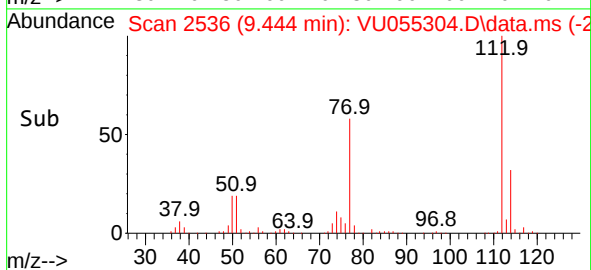
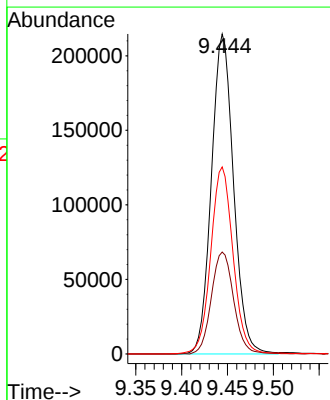
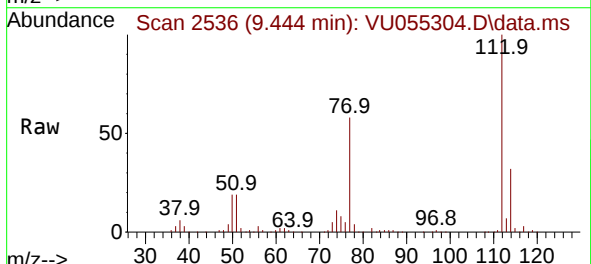
Reviewed By :John
Carlone
09/15/2023

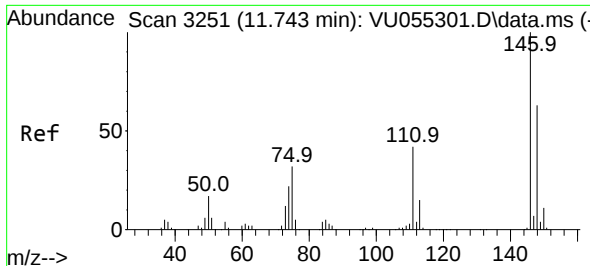
Supervised By :Mahesh
Dadoda
09/18/2023



#51
Chlorobenzene
Concen: 11.174 ug/L
RT: 9.444 min Scan# 2536
Delta R.T. 0.000 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

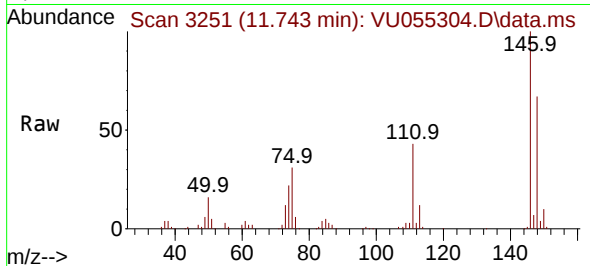
Tgt Ion:112 Resp: 360738
Ion Ratio Lower Upper
112 100
114 31.8 21.7 40.3
77 58.4 48.6 72.8





#64
1,3-Dichlorobenzene
Concen: 3.606 ug/L
RT: 11.743 min Scan# 3251
Delta R.T. 0.000 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

Instrument :
MSVOA_U
ClientSampleId :
BH4N9

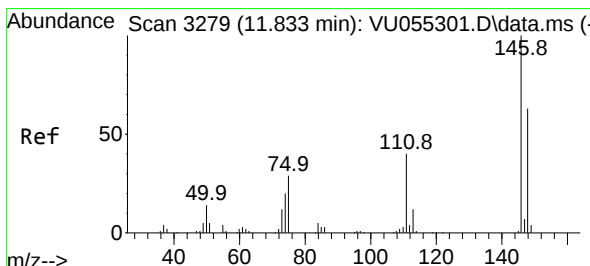
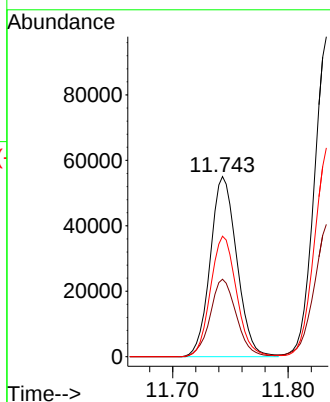


Tgt Ion:146 Resp: 87872
Ion Ratio Lower Upper
146 100
111 43.0 30.0 55.6
148 66.9 45.2 84.0

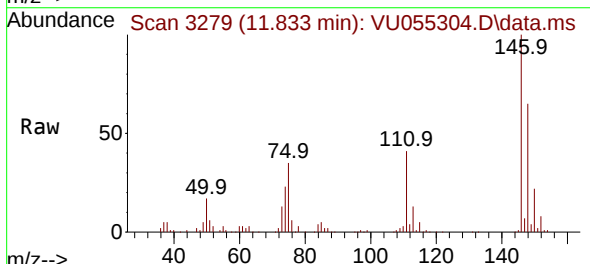
Manual Integrations
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Reviewed By :John
Carlone
09/15/2023

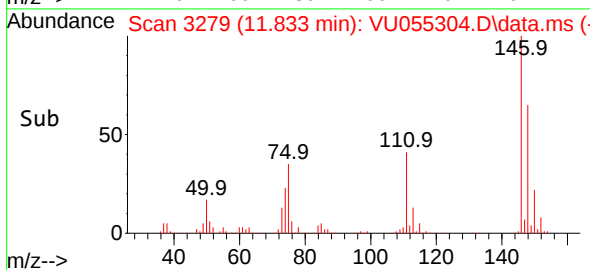
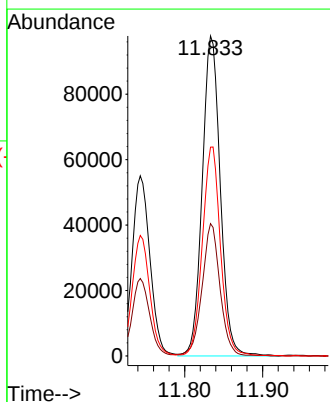
Supervised By :Mahesh
Dadoda
09/18/2023

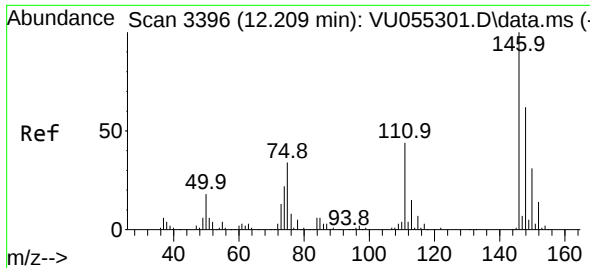


#65
1,4-Dichlorobenzene
Concen: 6.497 ug/L
RT: 11.833 min Scan# 3279
Delta R.T. 0.000 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53



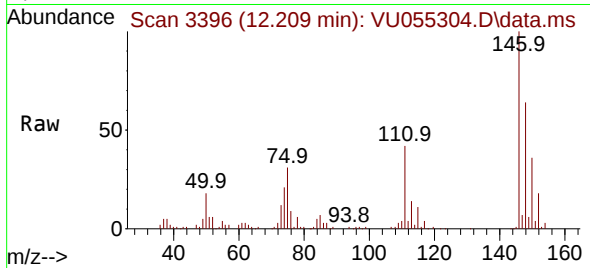
Tgt Ion:146 Resp: 157808
Ion Ratio Lower Upper
146 100
111 41.3 28.1 52.1
148 65.3 43.8 81.3





#67
1,2-Dichlorobenzene
Concen: 4.155 ug/L
RT: 12.209 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

Instrument :
MSVOA_U
ClientSampleId :
BH4N9

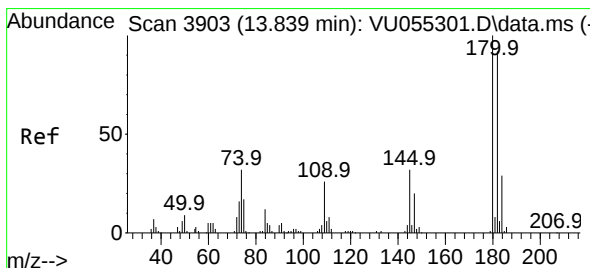
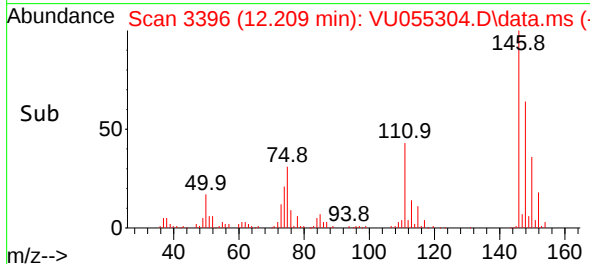
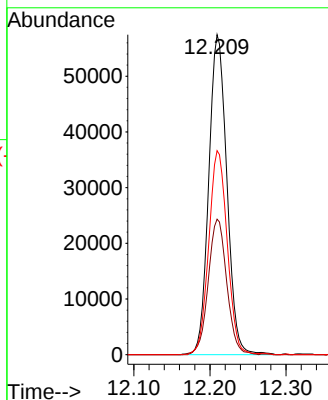


Tgt Ion:146 Resp: 94934
Ion Ratio Lower Upper
146 100
111 42.4 35.6 53.4
148 63.8 51.3 76.9

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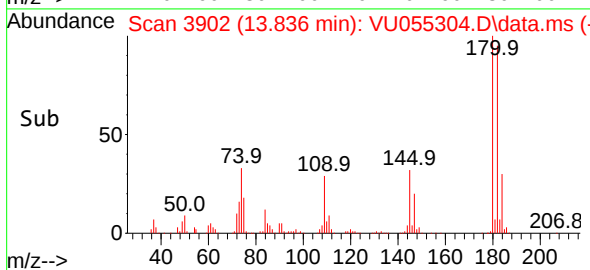
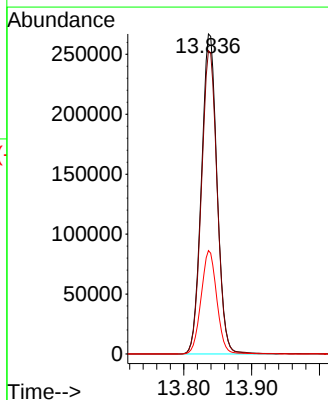
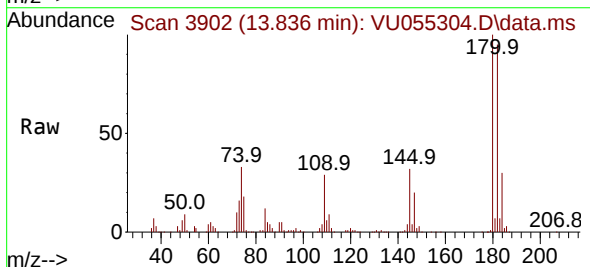
Reviewed By :John
Carlone
09/15/2023

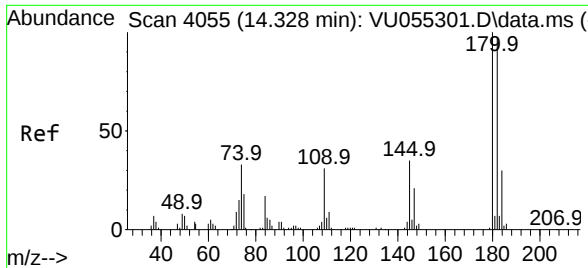
Supervised By :Mahesh
Dadoda
09/18/2023



#70
1,2,4-trichlorobenzene
Concen: 24.693 ug/L
RT: 13.836 min Scan# 3902
Delta R.T. -0.003 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

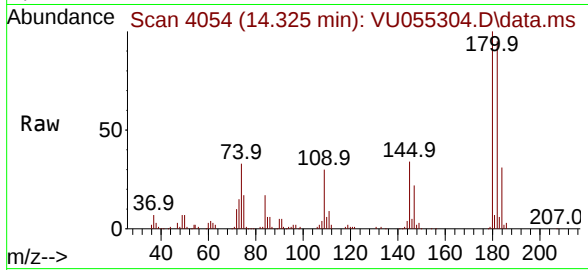
Tgt Ion:180 Resp: 426432
Ion Ratio Lower Upper
180 100
182 95.4 73.6 110.4
145 32.4 25.8 38.8





#72
 1,2,3-Trichlorobenzene
 Concen: 7.160 ug/L
 RT: 14.325 min Scan# 4055
 Delta R.T. -0.003 min
 Lab File: VU055304.D
 Acq: 14 Sep 2023 12:53

Instrument :
 MSVOA_U
 ClientSampleId :
 BH4N9



Tgt Ion:180 Resp: 107310
 Ion Ratio Lower Upper
 180 100
 182 97.0 75.6 113.4
 145 35.1 27.0 40.6

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone
 09/15/2023

Supervised By :Mahesh
 Dadoda
 09/18/2023

