

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040323\
 Data File : VU053529.D
 Acq On : 03 Apr 2023 18:49
 Operator : JC/MD
 Sample : 02158-06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-5(20230329)

Quant Time: Apr 04 05:19:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM033123WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 01 04:51:17 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Krupa Patel 04/04/2023
 Supervised By :Mahesh Dadoda 04/04/2023

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

Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	268363	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	266105	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	171651	50.000	ug/L	# 0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	101911	48.770	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	97.540%		
7) Chloroethane-d5	1.909	69	82561	51.243	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	102.480%		
11) 1,1-Dichloroethene-d2	2.565	63	139953	43.266	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	86.540%		
21) 2-Butanone-d5	4.629	46	121019	127.914	ug/L	0.02
Spiked Amount 100.000	Range 40 - 130		Recovery =	127.910%		
24) Chloroform-d	5.057	84	168565	48.776	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	97.560%		
26) 1,2-Dichloroethane-d4	5.697	65	106085	51.949	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	103.900%		
32) Benzene-d6	5.723	84	347914	48.436	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	96.880%		
36) 1,2-Dichloropropane-d6	6.687	67	109802	50.013	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	100.020%		
41) Toluene-d8	7.896	98	340352	47.674	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	95.340%		
43) trans-1,3-Dichloroprop...	8.176	79	56226	49.613	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	99.220%		
47) 2-Hexanone-d5	8.626	63	93964	125.404	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	125.400%		
56) 1,1,2,2-Tetrachloroeth...	10.751	84	168189	54.352	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	108.700%		
66) 1,2-Dichlorobenzene-d4	12.192	152	169764	47.381	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	94.760%		
Target Compounds						Qvalue
5) Vinyl chloride	1.600	62	212475	102.434	ug/L	99
12) 1,1-Dichloroethene	2.578	96	38662	23.479	ug/L #	54
13) Acetone	2.629	43	2453	2.885	ug/L	93
17) trans-1,2-Dichloroethene	3.353	96	18432	11.138	ug/L	95
20) cis-1,2-Dichloroethene	4.658	96	19094360	9989.084	ug/L	94
29) Cyclohexane	5.382	56	30419	11.874	ug/L	94
33) Benzene	5.768	78	322168	46.467	ug/L	100
34) Trichloroethene	6.539	95	3059891	1459.208	ug/L	96
35) Methylcyclohexane	6.758	83	153775	49.889	ug/L	98
42) Toluene	7.960	91	28256741m	3596.356	ug/L	
46) Tetrachloroethene	8.562	164	13042311	7495.049	ug/L	89
51) Chlorobenzene	9.443	112	2507519	463.197	ug/L	95
52) Ethylbenzene	9.568	91	3296914	376.944	ug/L	100
53) m,p-Xylene	9.690	106	5262907	1538.543	ug/L	99
54) o-xylene	10.095	106	1692191	500.345	ug/L	95
55) Styrene	10.095	104	80302	14.577	ug/L #	1
61) Isopropylbenzene	10.481	105	426448	42.021	ug/L	99
62) 1,3,5-Trimethylbenzene	11.086	105	808830	95.875	ug/L	99
63) 1,2,4-Trimethylbenzene	11.465	105	2330803	278.949	ug/L	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,3-Dichlorobenzene	11.742	146	2886053	544.246	ug/L	97
65) 1,4-Dichlorobenzene	11.835	146	15801738m	2923.754	ug/L	
67) 1,2-Dichlorobenzene	12.211	146	5056945	956.832	ug/L	98
70) 1,2,4-trichlorobenzene	13.841	180	31380708m	8619.251	ug/L	
72) 1,2,3-Trichlorobenzene	14.336	180	13854280	3809.832	ug/L	98

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

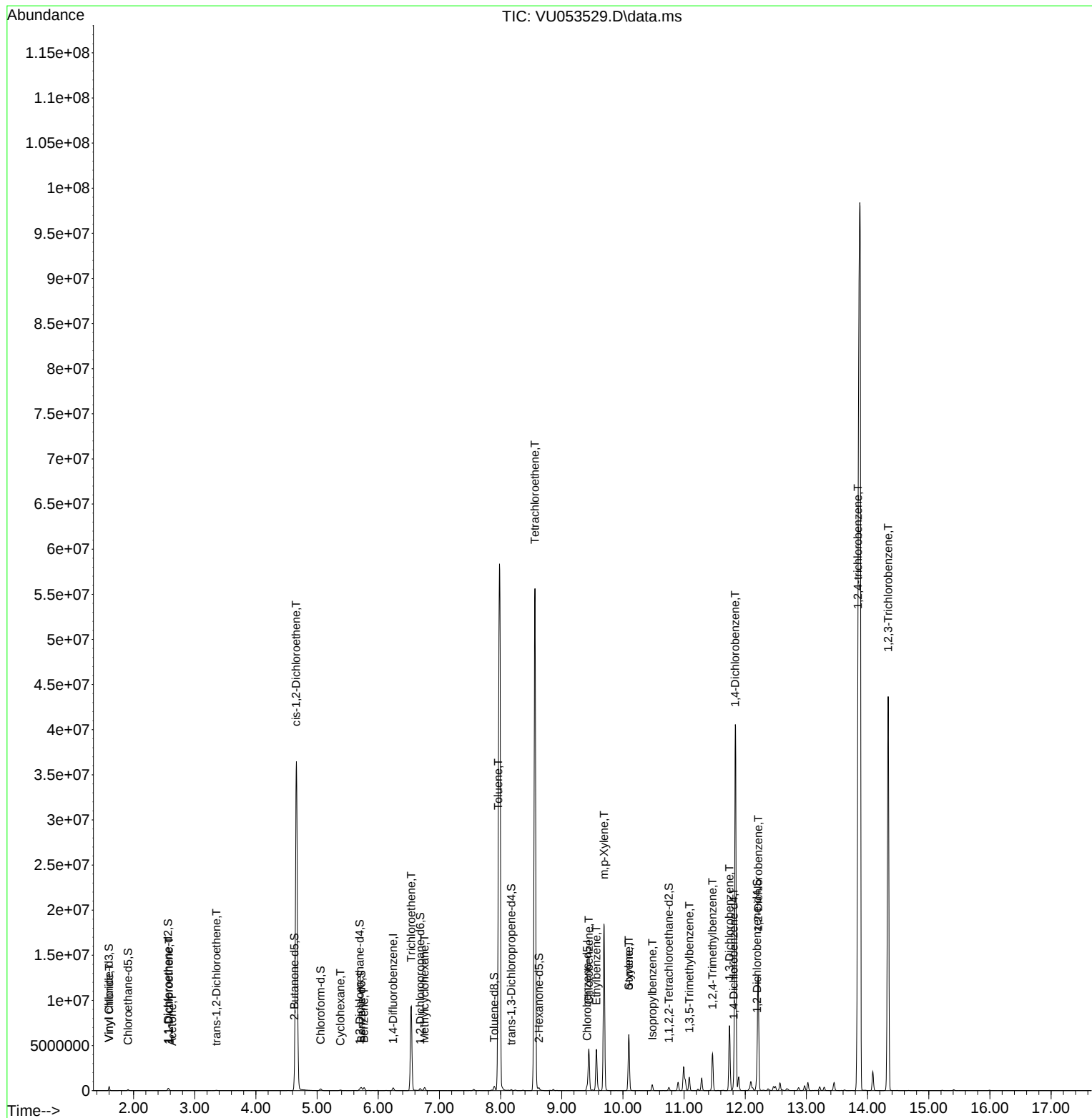
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040323\
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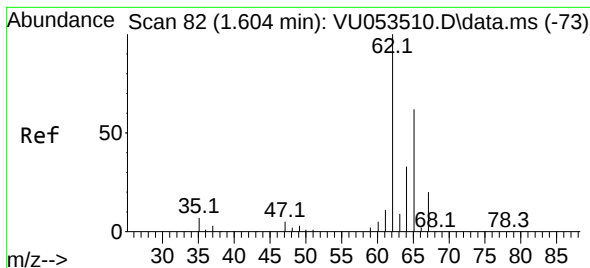
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#5

Vinyl chloride

Concen: 102.434 ug/L

RT: 1.600 min Scan# 81

Delta R.T. -0.003 min

Lab File: VU053529.D

Acq: 03 Apr 2023 18:49

Instrument :

MSVOA_U

ClientSampleId :

PMW-5(20230329)

Tgt Ion: 62 Resp: 21247

Ion Ratio Lower Upper

62 100

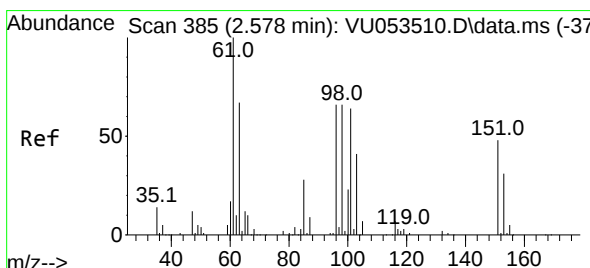
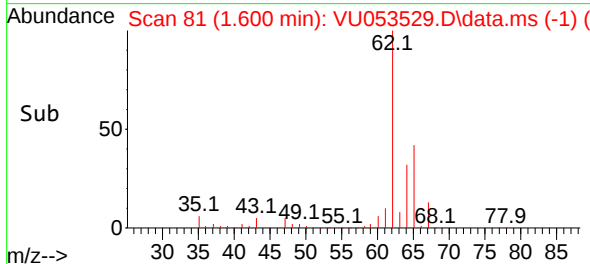
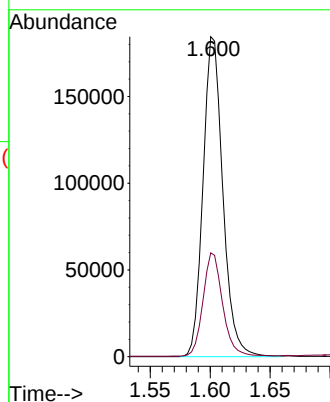
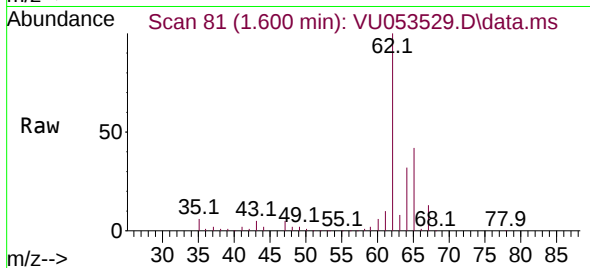
64 32.5 23.2 43.0

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#12

1,1-Dichloroethene

Concen: 23.479 ug/L

RT: 2.578 min Scan# 385

Delta R.T. 0.000 min

Lab File: VU053529.D

Acq: 03 Apr 2023 18:49

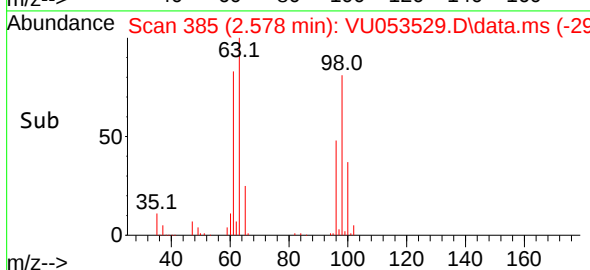
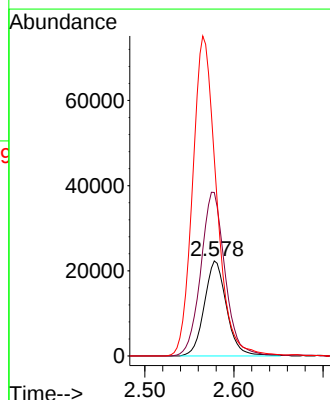
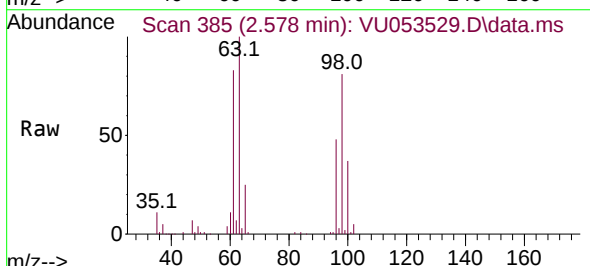
Tgt Ion: 96 Resp: 38662

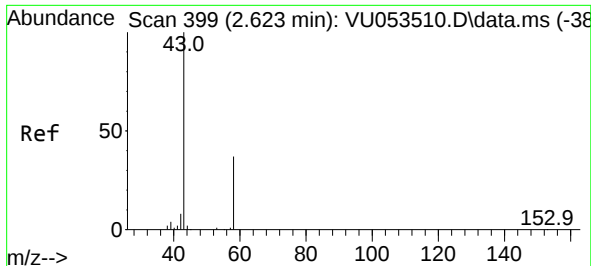
Ion Ratio Lower Upper

96 100

61 172.1 107.9 200.5

63 208.2 79.1 146.9





#13

Acetone

Concen: 2.885 ug/L

RT: 2.629 min Scan# 401

Delta R.T. 0.010 min

Lab File: VU053529.D

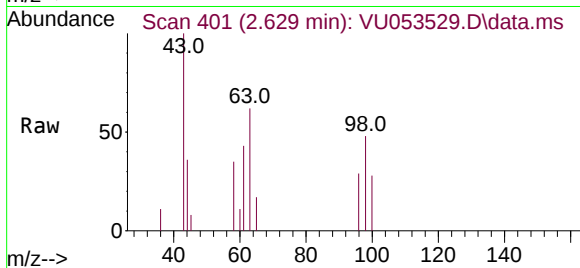
Acq: 03 Apr 2023 18:49

Instrument :

MSVOA_U

ClientSampleId :

PMW-5(20230329)



Tgt Ion: 43 Resp: 245

Ion Ratio Lower Upper

43 100

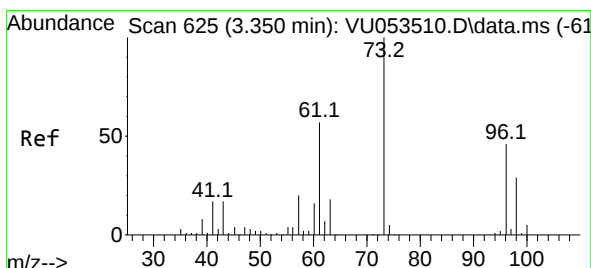
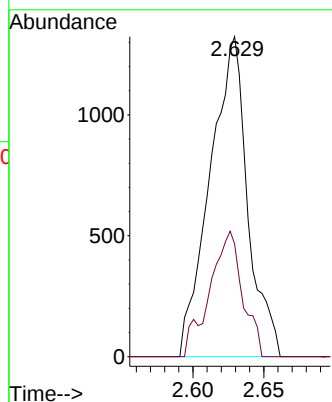
58 30.9 0.0 70.2

Manual Integrations

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#17

trans-1,2-Dichloroethene

Concen: 11.138 ug/L

RT: 3.353 min Scan# 626

Delta R.T. 0.003 min

Lab File: VU053529.D

Acq: 03 Apr 2023 18:49

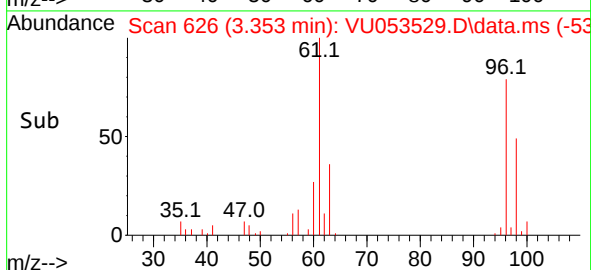
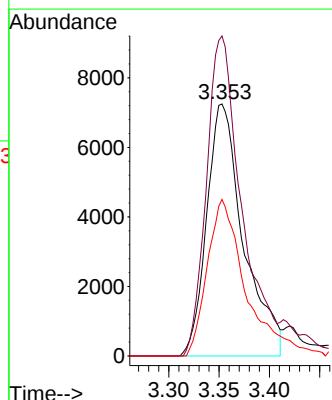
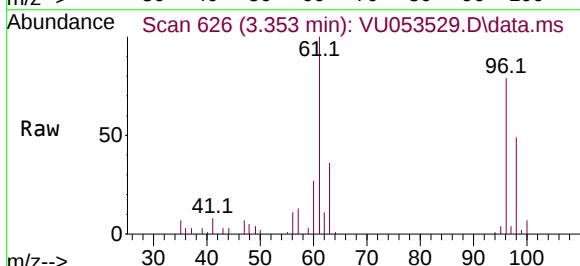
Tgt Ion: 96 Resp: 18432

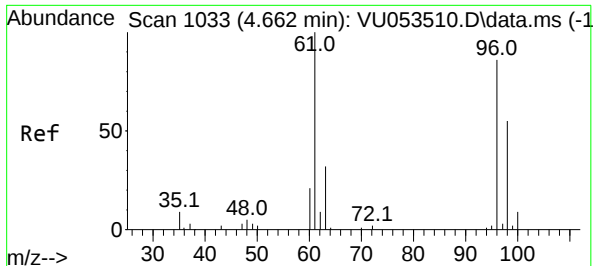
Ion Ratio Lower Upper

96 100

61 127.0 84.4 156.8

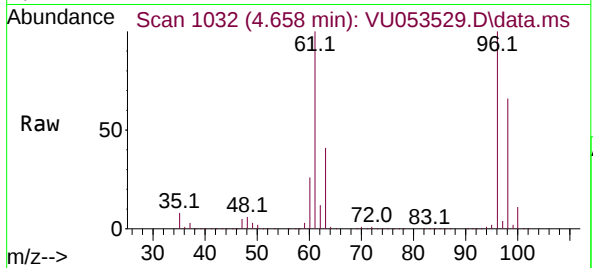
98 62.1 46.0 85.4





#20
cis-1,2-Dichloroethene
Concen: 9989.084 ug/L
RT: 4.658 min Scan# 1032
Delta R.T. -0.003 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

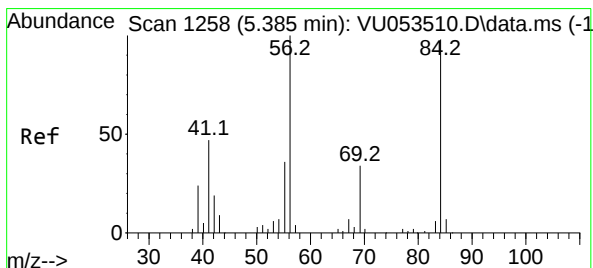
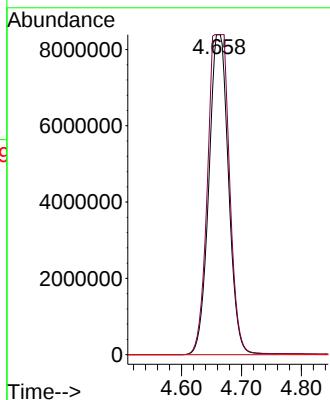
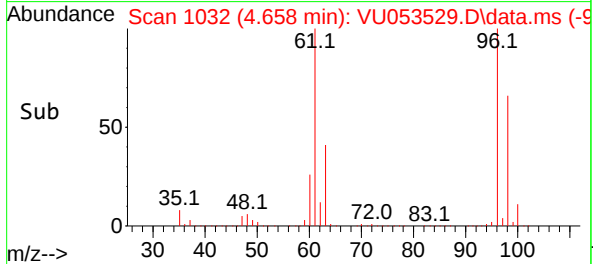
Instrument :
MSVOA_U
ClientSampleId :
PMW-5(20230329)



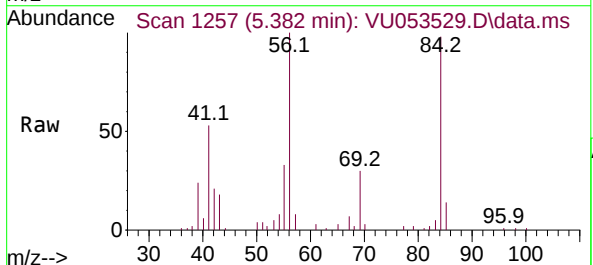
Tgt Ion: 96 Resp:19094360
Ion Ratio Lower Upper
96 100
61 100.0 74.7 138.7
68 0.0 0.0 0.0

Manual Integrations
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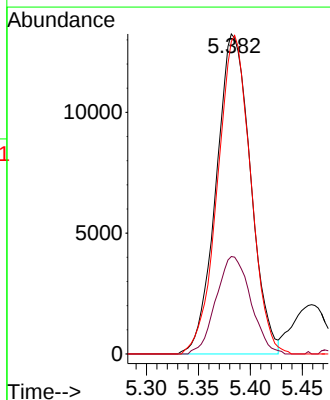
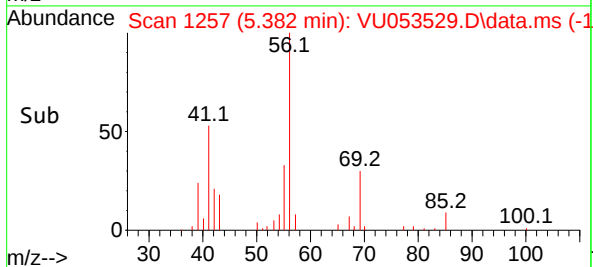
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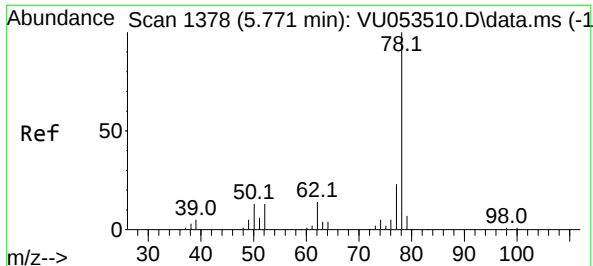


#29
Cyclohexane
Concen: 11.874 ug/L
RT: 5.382 min Scan# 1257
Delta R.T. -0.003 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49



Tgt Ion: 56 Resp: 30419
Ion Ratio Lower Upper
56 100
69 30.7 27.3 40.9
84 95.9 81.3 121.9





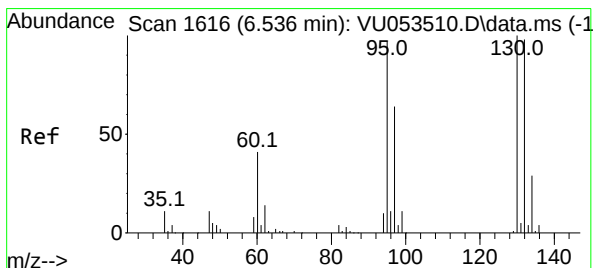
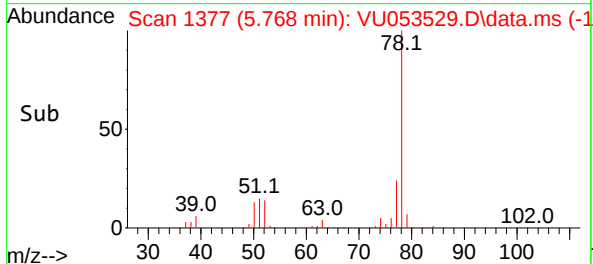
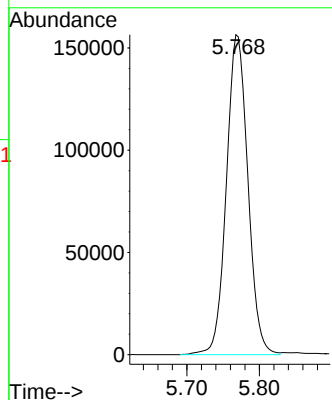
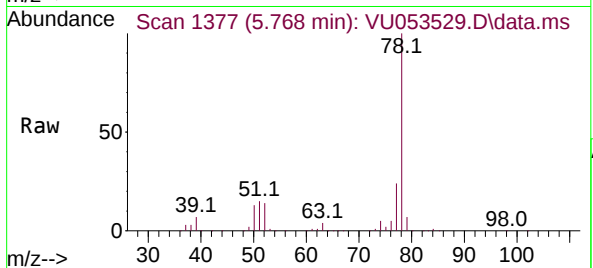
#33
Benzene
Concen: 46.467 ug/L
RT: 5.768 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

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Tgt Ion: 78 Resp: 322168

Manual Integrations
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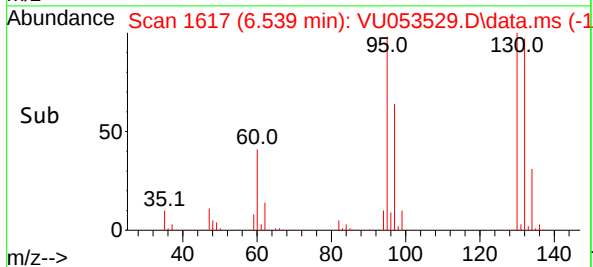
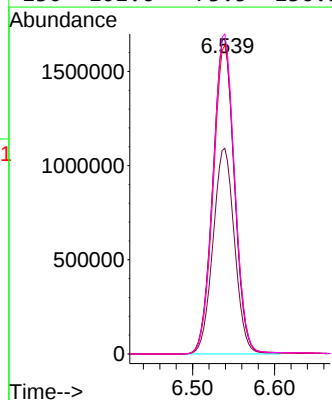
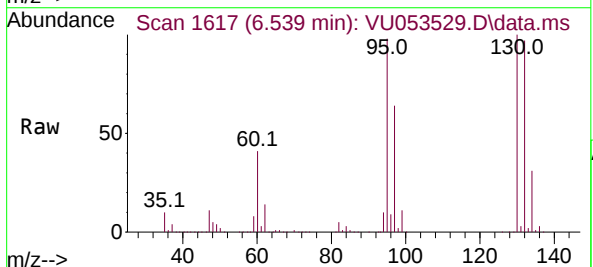
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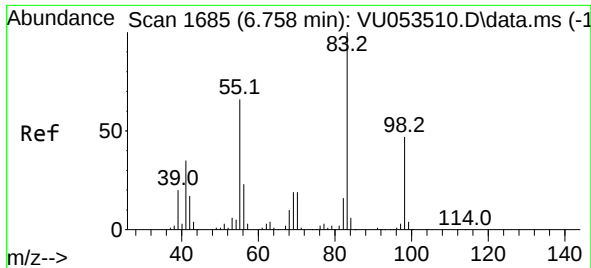


#34
Trichloroethene
Concen: 1459.208 ug/L
RT: 6.539 min Scan# 1617
Delta R.T. 0.003 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

Tgt Ion: 95 Resp: 3059891

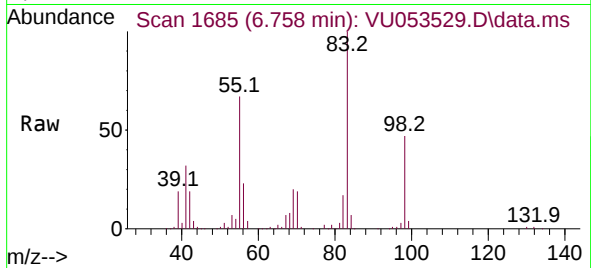
Ion	Ratio	Lower	Upper
95	100		
97	65.3	45.1	83.7
132	98.1	74.1	137.5
130	101.6	73.5	136.5





#35
Methylcyclohexane
Concen: 49.889 ug/L
RT: 6.758 min Scan# 1059
Delta R.T. 0.000 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

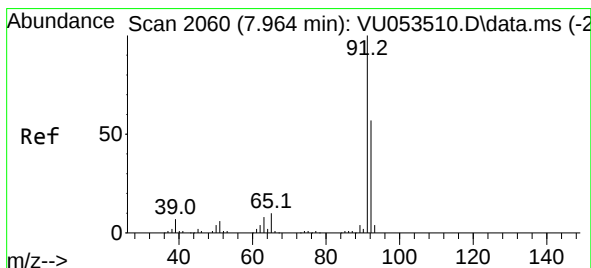
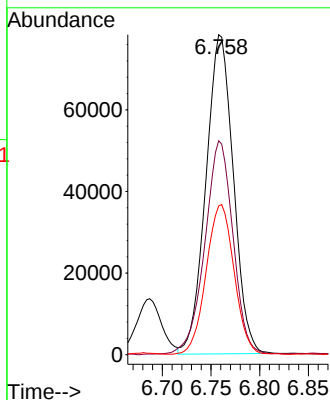
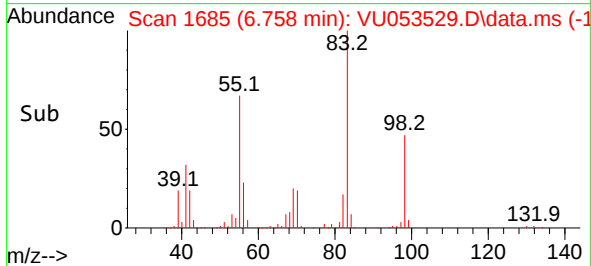
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Tgt Ion: 83 Resp: 153775
Ion Ratio Lower Upper
83 100
55 69.0 53.0 79.6
98 48.0 39.0 58.6

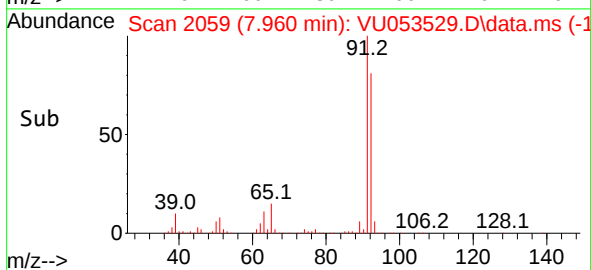
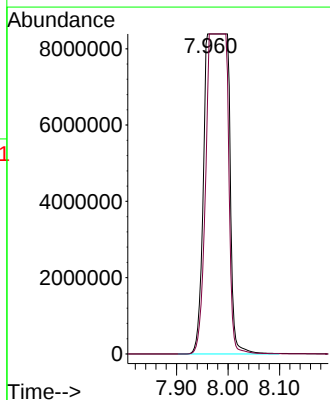
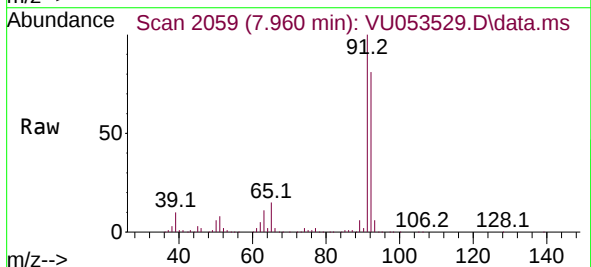
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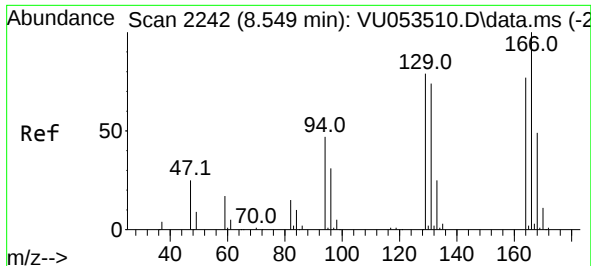
Reviewed By :Krupa Patel 04/04/2023
Supervised By :Mahesh Dadoda 04/04/2023



#42
Toluene
Concen: 3596.356 ug/L m
RT: 7.960 min Scan# 2059
Delta R.T. -0.003 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

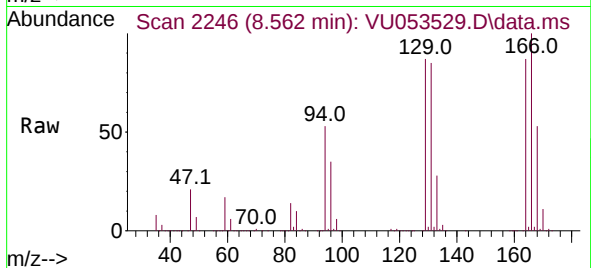
Tgt Ion: 91 Resp:28256741
Ion Ratio Lower Upper
91 100
92 80.9 39.8 73.8#





#46
Tetrachloroethene
Concen: 7495.049 ug/L
RT: 8.562 min Scan# 211
Delta R.T. 0.013 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

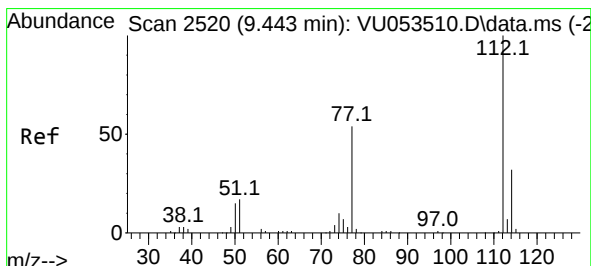
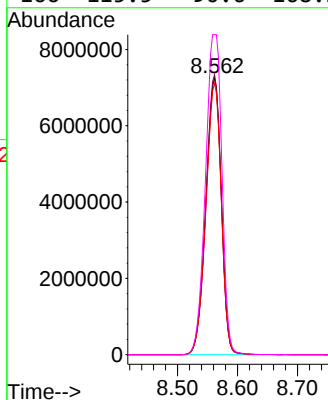
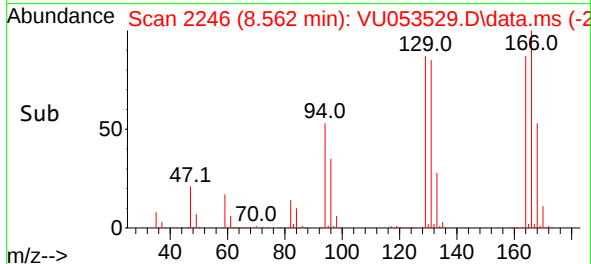
Instrument :
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ClientSampleId :
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Tgt Ion:164 Resp:1304231
Ion Ratio Lower Upper
164 100
129 101.1 64.0 119.0
131 98.1 61.9 115.1
166 115.5 90.6 168.2

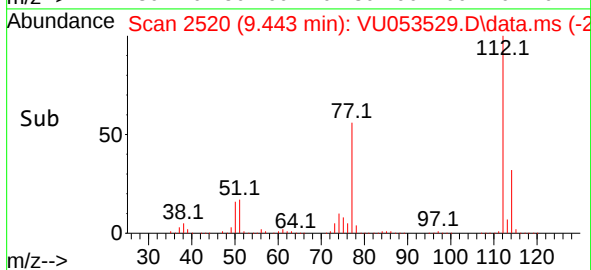
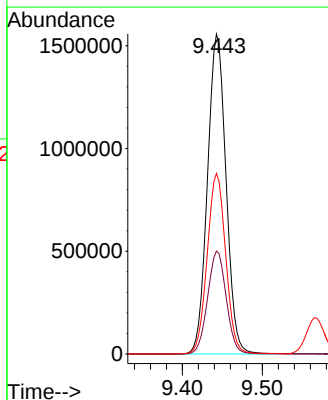
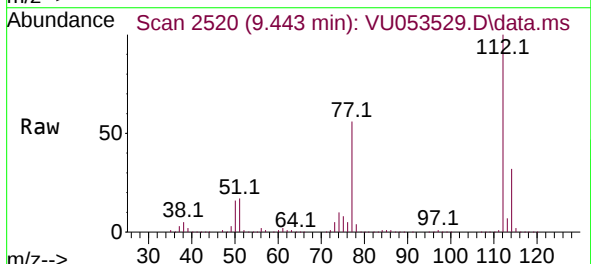
Manual Integrations
APPROVED

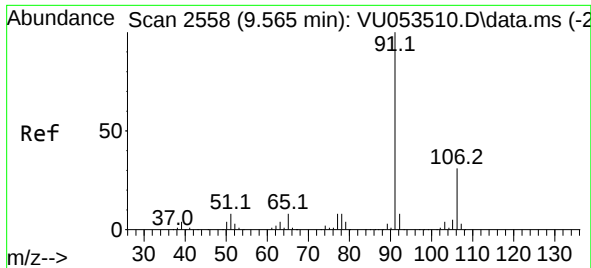
Reviewed By :Krupa Patel 04/04/2023
Supervised By :Mahesh Dadoda 04/04/2023



#51
Chlorobenzene
Concen: 463.197 ug/L
RT: 9.443 min Scan# 2520
Delta R.T. 0.000 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

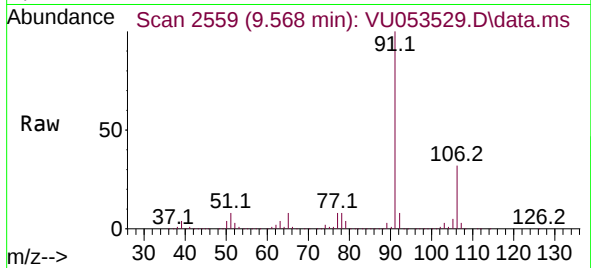
Tgt Ion:112 Resp: 2507519
Ion Ratio Lower Upper
112 100
114 32.2 22.2 41.2
77 56.5 41.3 61.9





#52
Ethylbenzene
Concen: 376.944 ug/L
RT: 9.568 min Scan# 2558
Delta R.T. 0.003 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

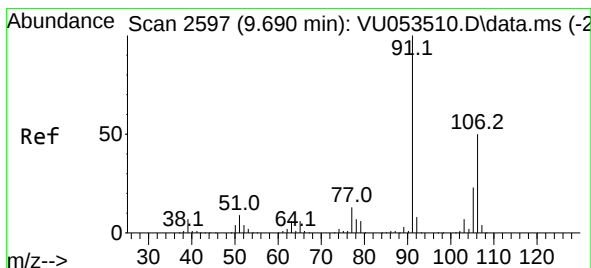
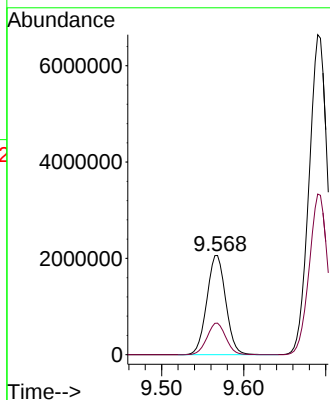
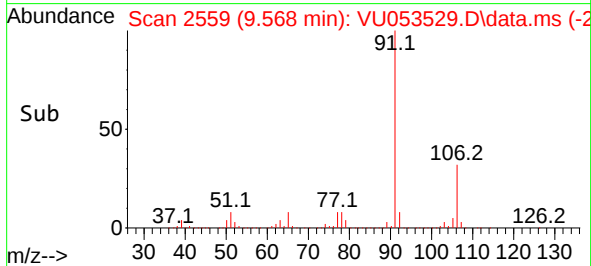
Instrument :
MSVOA_U
ClientSampleId :
PMW-5(20230329)



Tgt Ion: 91 Resp: 3296914
Ion Ratio Lower Upper
91 100
106 31.8 22.4 41.6

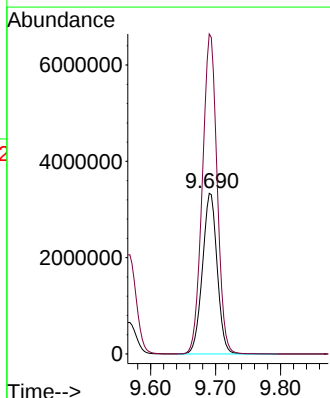
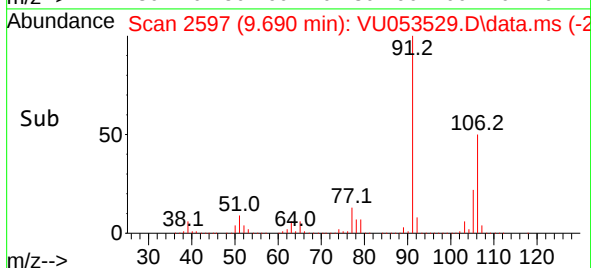
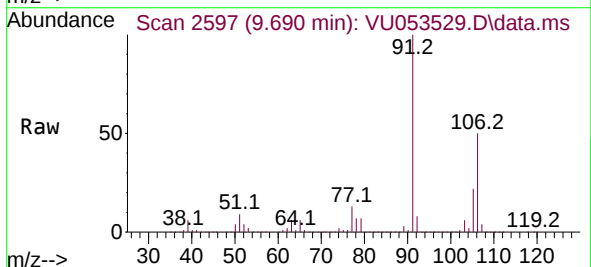
Manual Integrations
APPROVED

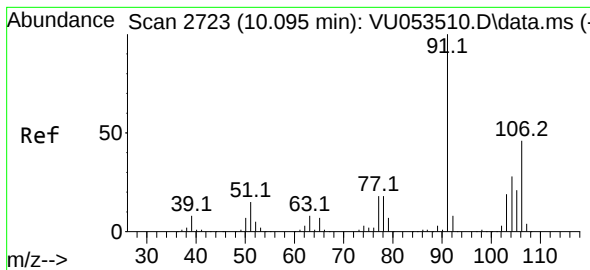
Reviewed By :Krupa Patel 04/04/2023
Supervised By :Mahesh Dadoda 04/04/2023



#53
m,p-Xylene
Concen: 1538.543 ug/L
RT: 9.690 min Scan# 2597
Delta R.T. 0.000 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

Tgt Ion:106 Resp: 5262907
Ion Ratio Lower Upper
106 100
91 199.1 140.0 260.0





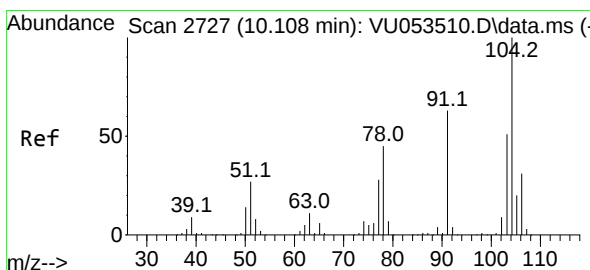
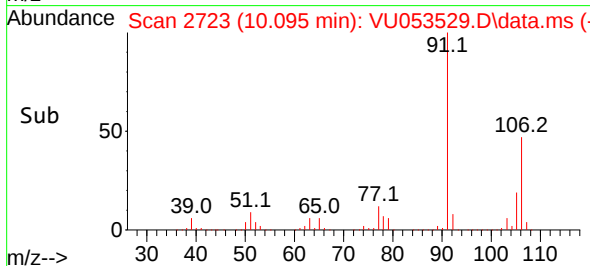
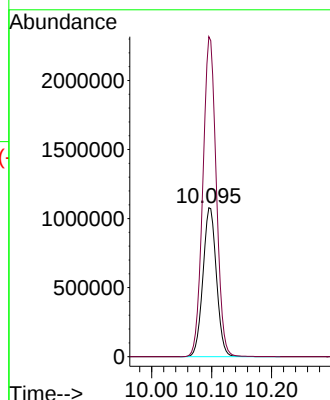
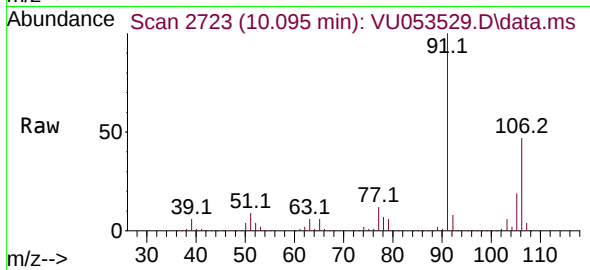
#54
o-xylene
Concen: 500.345 ug/L
RT: 10.095 min Scan# 2723
Delta R.T. 0.000 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

Instrument :
MSVOA_U
ClientSampleId :
PMW-5(20230329)

Tgt Ion:106 Resp: 169219
Ion Ratio Lower Upper
106 100
91 214.9 144.9 269.1

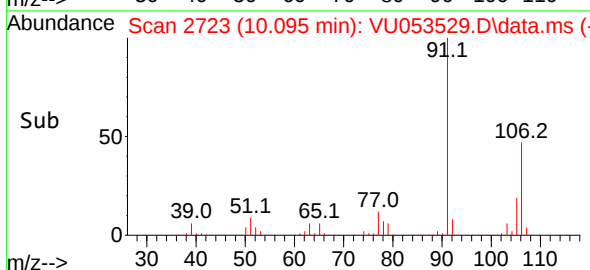
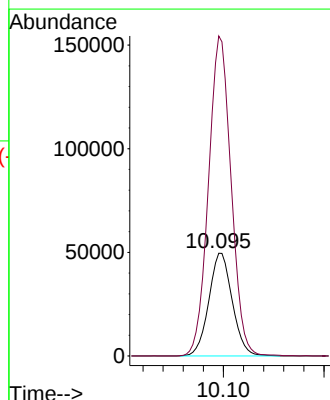
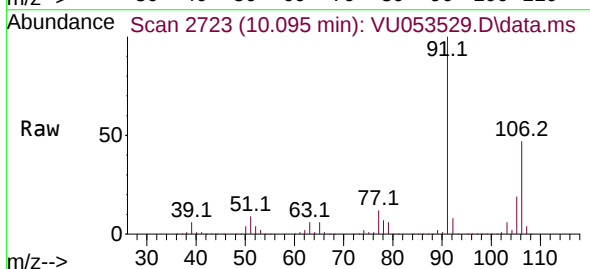
Manual Integrations
APPROVED

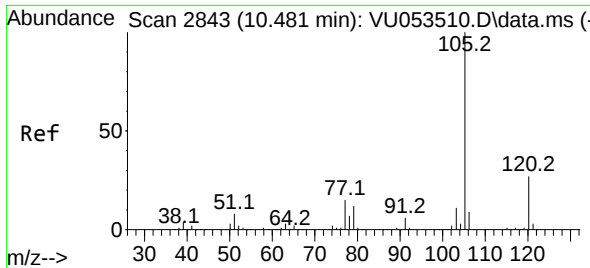
Reviewed By :Krupa Patel 04/04/2023
Supervised By :Mahesh Dadoda 04/04/2023



#55
Styrene
Concen: 14.577 ug/L
RT: 10.095 min Scan# 2723
Delta R.T. -0.013 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

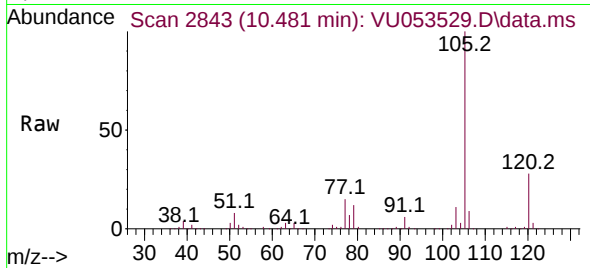
Tgt Ion:104 Resp: 80302
Ion Ratio Lower Upper
104 100
78 311.6 31.3 58.1#





#61
Isopropylbenzene
Concen: 42.021 ug/L
RT: 10.481 min Scan# 2843
Delta R.T. 0.003 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

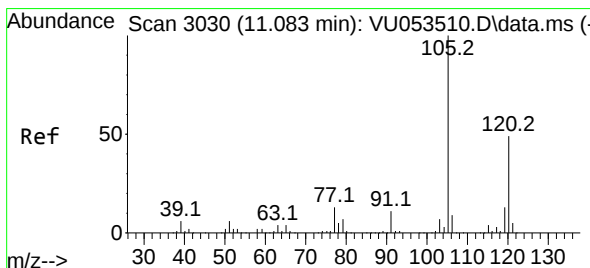
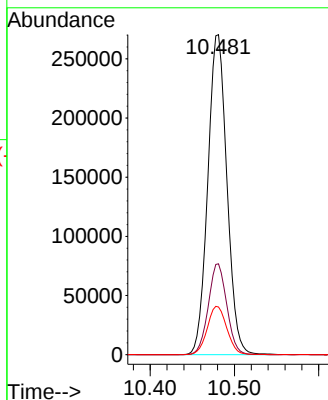
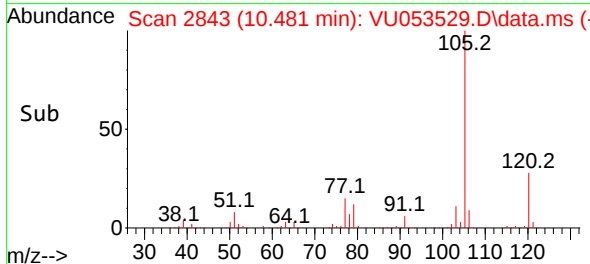
Instrument :
MSVOA_U
ClientSampleId :
PMW-5(20230329)



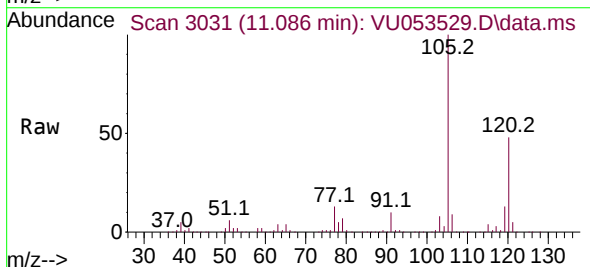
Tgt Ion:105 Resp: 426448
Ion Ratio Lower Upper
105 100
120 27.5 22.4 33.6
77 15.5 12.1 18.1

Manual Integrations
APPROVED

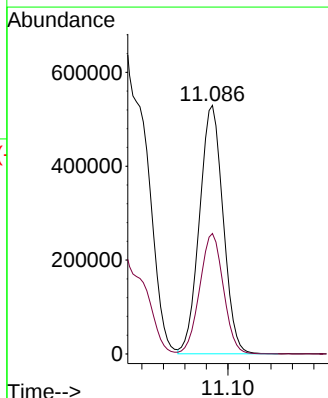
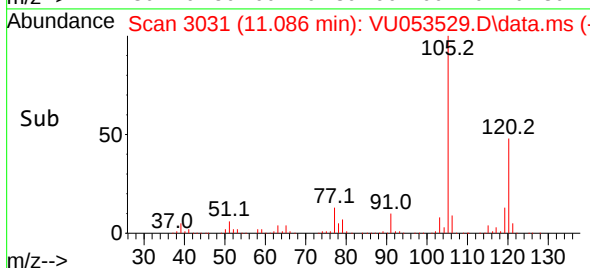
Reviewed By :Krupa Patel 04/04/2023
Supervised By :Mahesh Dadoda 04/04/2023

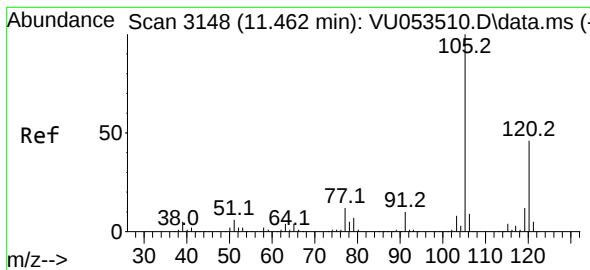


#62
1,3,5-Trimethylbenzene
Concen: 95.875 ug/L
RT: 11.086 min Scan# 3031
Delta R.T. 0.003 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49



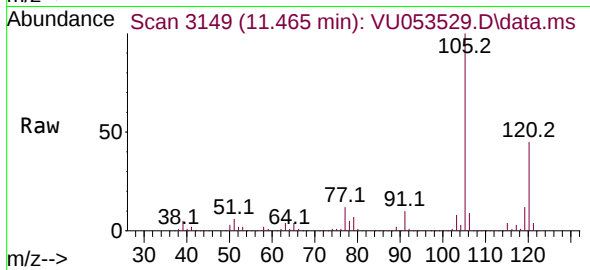
Tgt Ion:105 Resp: 808830
Ion Ratio Lower Upper
105 100
120 48.7 39.5 59.3





#63
1,2,4-Trimethylbenzene
Concen: 278.949 ug/L
RT: 11.465 min Scan# 3148
Delta R.T. 0.003 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

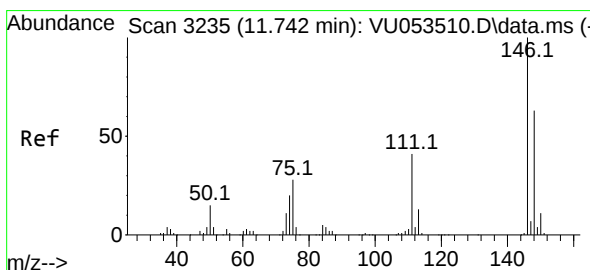
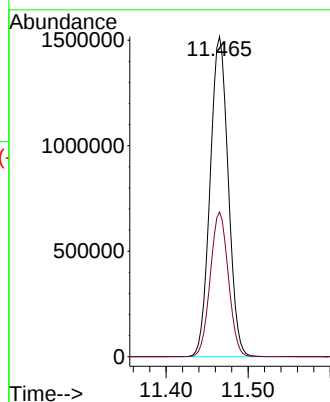
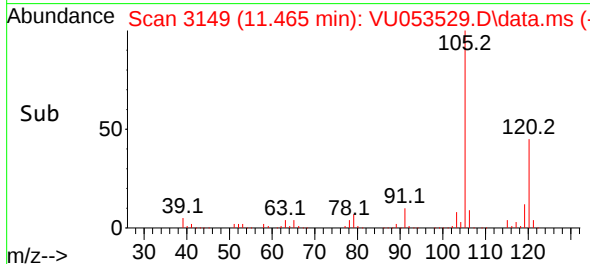
Instrument :
MSVOA_U
ClientSampleId :
PMW-5(20230329)



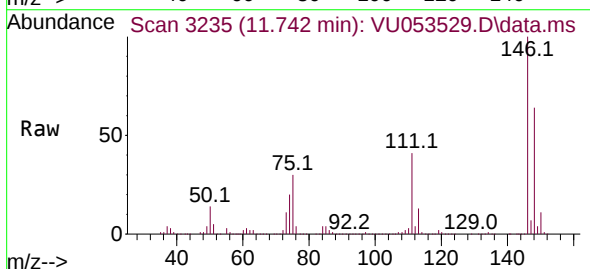
Tgt Ion:105 Resp: 233080
Ion Ratio Lower Upper
105 100
120 45.2 37.5 56.3

Manual Integrations
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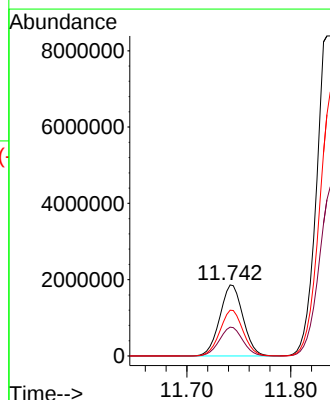
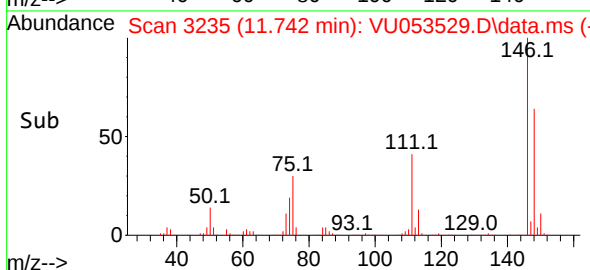
Reviewed By :Krupa Patel 04/04/2023
Supervised By :Mahesh Dadoda 04/04/2023

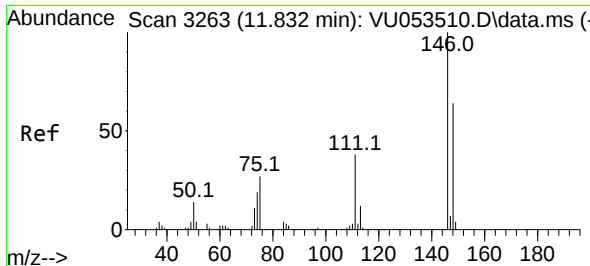


#64
1,3-Dichlorobenzene
Concen: 544.246 ug/L
RT: 11.742 min Scan# 3235
Delta R.T. 0.000 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49



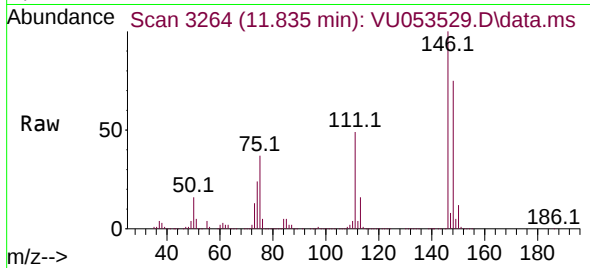
Tgt Ion:146 Resp: 2886053
Ion Ratio Lower Upper
146 100
111 40.6 25.7 47.7
148 64.4 44.2 82.2





#65
1,4-Dichlorobenzene
Concen: 2923.754 ug/L m
RT: 11.835 min Scan# 3263
Delta R.T. 0.003 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

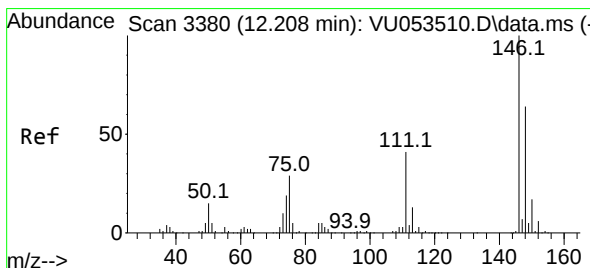
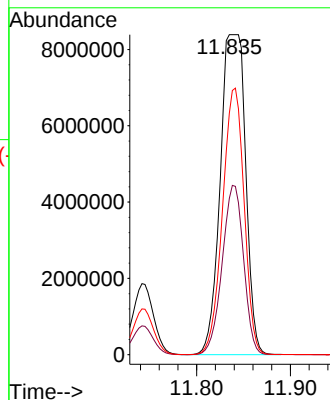
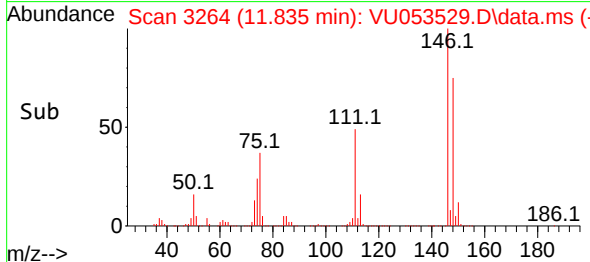
Instrument :
MSVOA_U
ClientSampleId :
PMW-5(20230329)



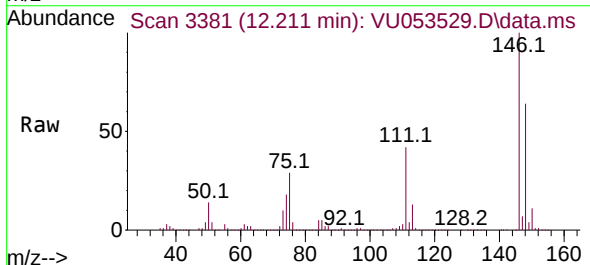
Tgt Ion:146 Resp:15801738
Ion Ratio Lower Upper
146 100
111 48.8 25.1 46.5
148 75.4 44.3 82.3

Manual Integrations
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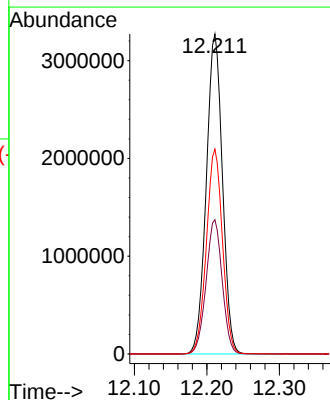
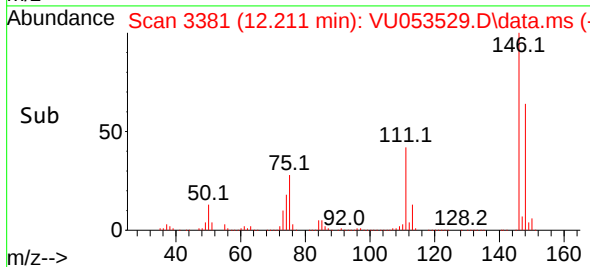
Reviewed By :Krupa Patel 04/04/2023
Supervised By :Mahesh Dadoda 04/04/2023

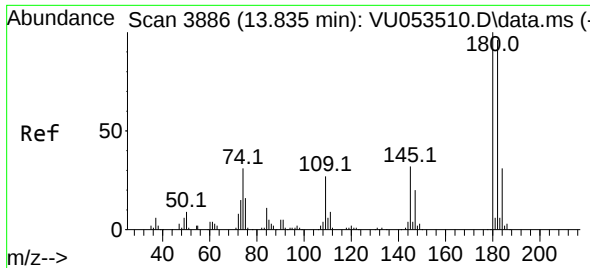


#67
1,2-Dichlorobenzene
Concen: 956.832 ug/L
RT: 12.211 min Scan# 3381
Delta R.T. 0.003 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49



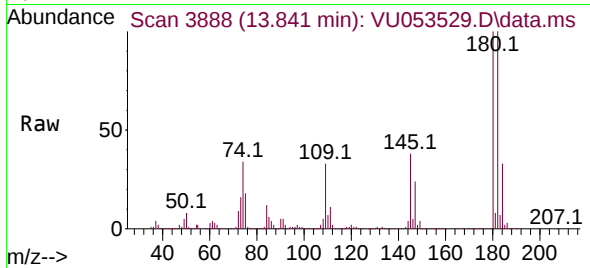
Tgt Ion:146 Resp: 5056945
Ion Ratio Lower Upper
146 100
111 42.0 31.5 47.3
148 64.0 51.6 77.4





#70
1,2,4-trichlorobenzene
Concen: 8619.251 ug/L m
RT: 13.841 min Scan# 3886
Delta R.T. 0.006 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49

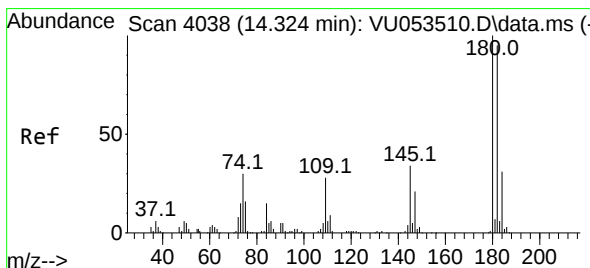
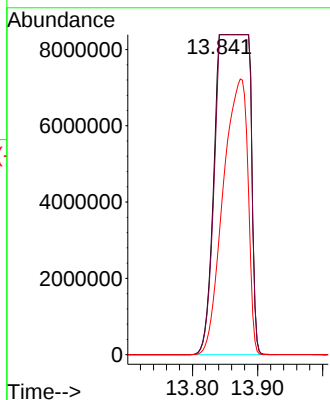
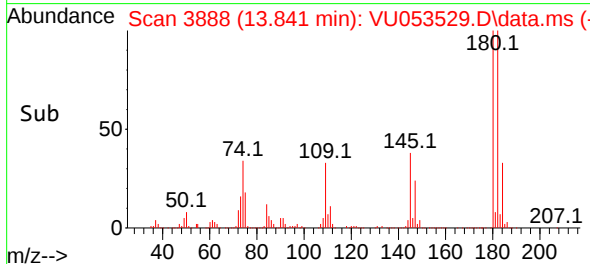
Instrument :
MSVOA_U
ClientSampleId :
PMW-5(20230329)



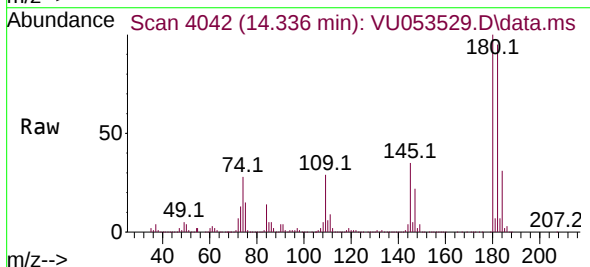
Tgt Ion:180 Resp:3138070
Ion Ratio Lower Upper
180 100
182 0.0 75.8 113.8
145 0.0 23.4 35.2

Manual Integrations
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Reviewed By :Krupa Patel 04/04/2023
Supervised By :Mahesh Dadoda 04/04/2023



#72
1,2,3-Trichlorobenzene
Concen: 3809.832 ug/L
RT: 14.336 min Scan# 4042
Delta R.T. 0.013 min
Lab File: VU053529.D
Acq: 03 Apr 2023 18:49



Tgt Ion:180 Resp:13854280
Ion Ratio Lower Upper
180 100
182 95.2 77.0 115.6
145 34.5 25.4 38.0

