

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW061523\
 Data File : VW031534.D
 Acq On : 15 Jun 2023 16:23
 Operator : SY/MD
 Sample : 03249-12
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXYT2

Quant Time: Jun 16 02:49:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM061423WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 16 02:44:48 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/16/2023
 Supervised By : Mahesh Dadoda 06/16/2023

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

Internal Standards						
1) 1,4-Difluorobenzene	5.542	114	196615	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	199473	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.191	152	123495	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	54178	41.404	ug/L	0.00
Spiked Amount 50.000	Range 60	- 135	Recovery	=	82.800%	
7) Chloroethane-d5	1.535	69	52865	46.302	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	=	92.600%	
11) 1,1-Dichloroethene-d2	2.069	65	29168	43.250	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	=	86.500%	
21) 2-Butanone-d5	3.812	46	122534	115.646	ug/L	0.01
Spiked Amount 100.000	Range 40	- 130	Recovery	=	115.650%	
24) Chloroform-d	4.262	84	150795	46.014	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	92.020%	
26) 1,2-Dichloroethane-d4	4.950	65	102912	50.191	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	100.380%	
32) Benzene-d6	4.969	84	263841	46.991	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	93.980%	
36) 1,2-Dichloropropane-d6	5.998	67	96349	48.416	ug/L	0.00
Spiked Amount 50.000	Range 70	- 120	Recovery	=	96.840%	
41) Toluene-d8	7.249	98	232131	45.053	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	=	90.100%	
43) trans-1,3-Dichloroprop...	7.558	79	49680	51.210	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	=	102.420%	
47) 2-Hexanone-d5	8.030	63	82037	104.408	ug/L	0.00
Spiked Amount 100.000	Range 45	- 130	Recovery	=	104.410%	
56) 1,1,2,2-Tetrachloroeth...	10.159	84	147368	49.061	ug/L	0.00
Spiked Amount 50.000	Range 65	- 120	Recovery	=	98.120%	
66) 1,2-Dichlorobenzene-d4	11.567	152	120387	51.141	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	=	102.280%	
Target Compounds						
						Qvalue
5) Vinyl chloride	1.288	62	201491	103.287	ug/L	98
8) Chloroethane	1.555	64	113531	90.106	ug/L	97
9) Trichlorofluoromethane	1.722	101	6943	2.139	ug/L	93
12) 1,1-Dichloroethene	2.079	96	146425m	100.649	ug/L	
16) Methylene chloride	2.455	84	5416	2.969	ug/L	91
17) trans-1,2-Dichloroethene	2.703	96	94692	62.356	ug/L	92
19) 1,1-Dichloroethane	3.121	63	8361452	2551.157	ug/L	98
20) cis-1,2-Dichloroethene	3.825	96	15196174	9259.669	ug/L	89
25) Chloroform	4.288	83	10064	2.954	ug/L	98
27) 1,2-Dichloroethane	5.053	62	66444	25.268	ug/L	98
30) 1,1,1-Trichloroethane	4.526	97	7496176	2343.914	ug/L	99
33) Benzene	5.021	78	54316	8.179	ug/L	100
34) Trichloroethene	5.841	95	105982	59.720	ug/L	88
35) Methylcyclohexane	6.059	83	8939	3.419	ug/L	95
40) 4-Methyl-2-pentanone	7.172	43	17640	7.703	ug/L	99
42) Toluene	7.323	91	713653	103.641	ug/L	99
45) 1,1,2-Trichloroethane	7.780	97	7867	4.270	ug/L	96
46) Tetrachloroethene	7.911	164	33807	24.272	ug/L	96
52) Ethylbenzene	8.953	91	349128	45.439	ug/L	99

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 EXYT2

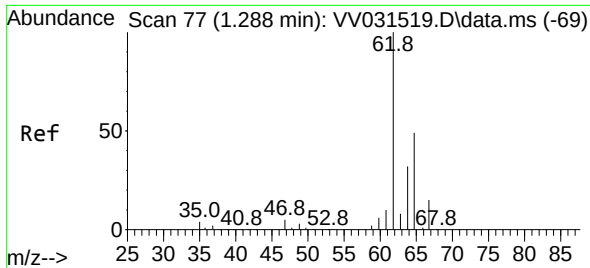
Manual Integrations
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 Supervised By : Mahesh Dadoda 06/16/2023

Quant Time: Jun 16 02:49:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM061423WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 16 02:44:48 2023
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.079	106	342838	121.843	ug/L	99
54) o-Xylene	9.484	106	280132	104.911	ug/L	98
60) Isopropylbenzene	9.873	105	51874	6.589	ug/L	99
62) 1,3,5-Trimethylbenzene	10.484	105	470302	72.275	ug/L	99
63) 1,2,4-Trimethylbenzene	10.857	105	2096724	345.823	ug/L	98
67) 1,2-Dichlorobenzene	11.587	146	6683	1.677	ug/L	89

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



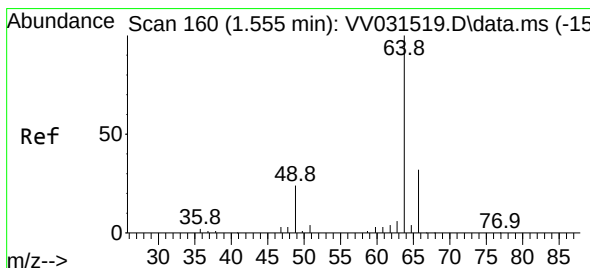
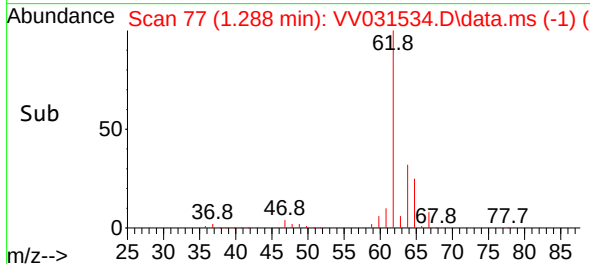
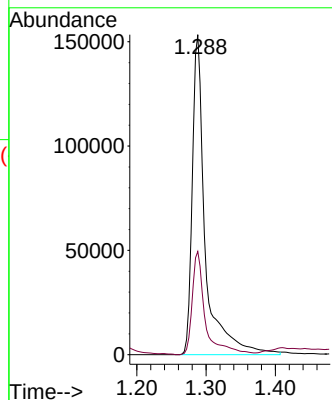
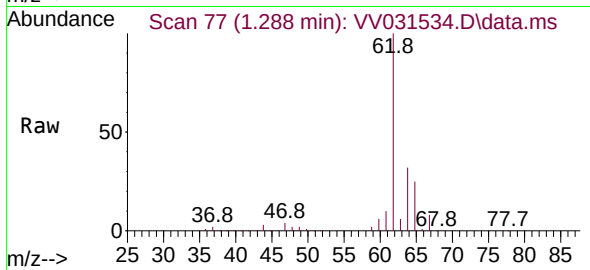
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 Vinyl chloride
 Concen: 103.287 ug/L
 RT: 1.288 min Scan# 77
 Delta R.T. 0.000 min
 Lab File: VV031534.D
 Acq: 15 Jun 2023 16:23

Instrument :
 MSVOA_V
 ClientSampleId :
 EXYT2

Tgt Ion: 62 Resp: 20149
 Ion Ratio Lower Upper
 62 100
 64 32.3 23.4 43.4

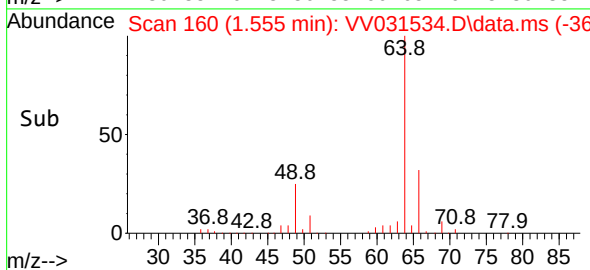
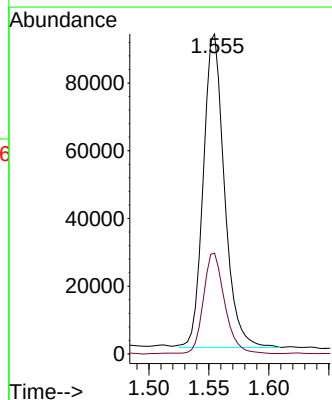
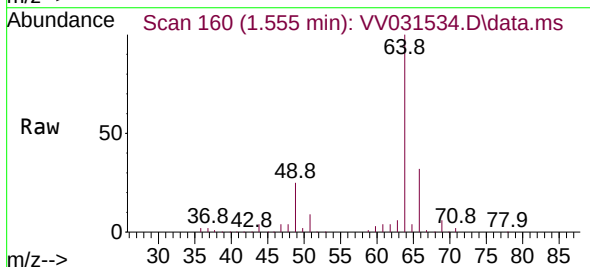
Manual Integrations
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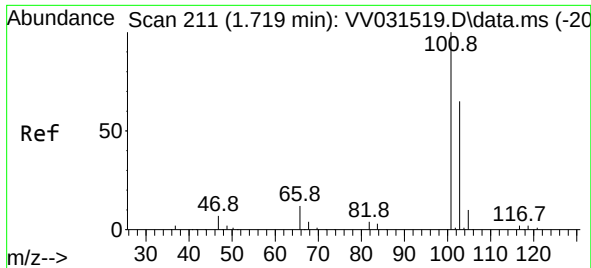
Reviewed By :John Carlone 06/16/2023
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#8
 Chloroethane
 Concen: 90.106 ug/L
 RT: 1.555 min Scan# 160
 Delta R.T. 0.000 min
 Lab File: VV031534.D
 Acq: 15 Jun 2023 16:23

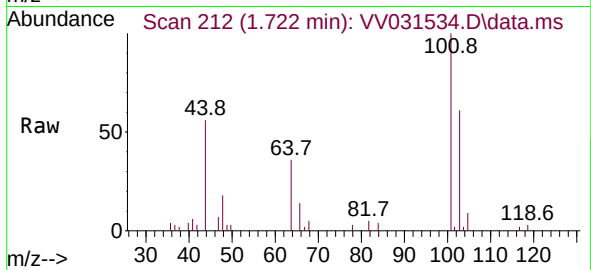
Tgt Ion: 64 Resp: 113531
 Ion Ratio Lower Upper
 64 100
 66 31.5 21.0 39.0





#9
Trichlorofluoromethane
Concen: 2.139 ug/L
RT: 1.722 min Scan# 211
Delta R.T. 0.003 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

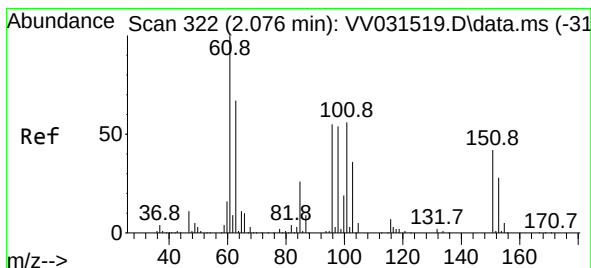
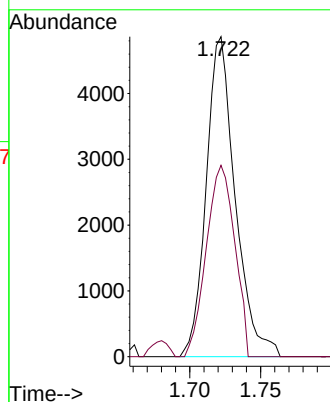
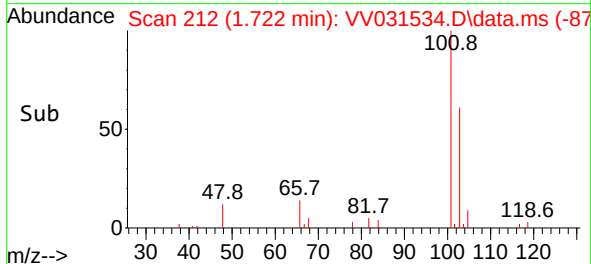
Instrument :
MSVOA_V
ClientSampleId :
EXYT2



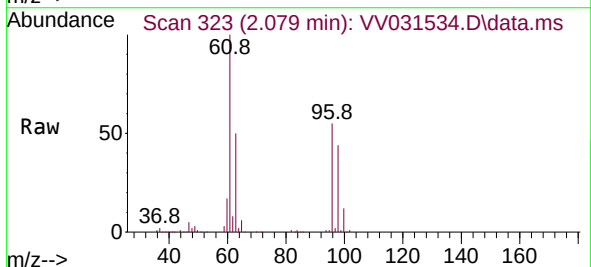
Tgt Ion:101 Resp: 694
Ion Ratio Lower Upper
101 100
103 58.4 50.9 76.3

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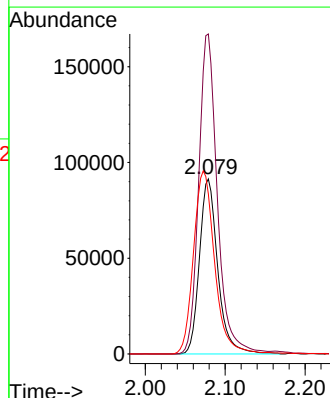
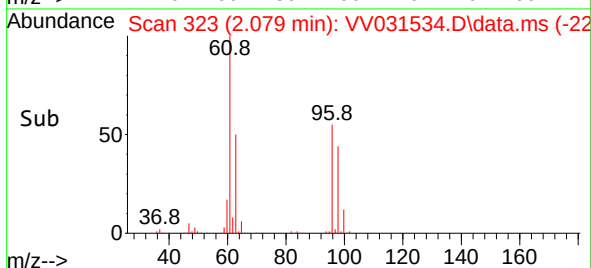
Reviewed By :John Carlone 06/16/2023
Supervised By :Mahesh Dadoda 06/16/2023

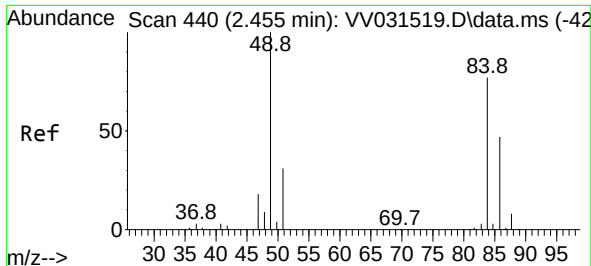


#12
1,1-Dichloroethene
Concen: 100.649 ug/L m
RT: 2.079 min Scan# 323
Delta R.T. 0.003 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23



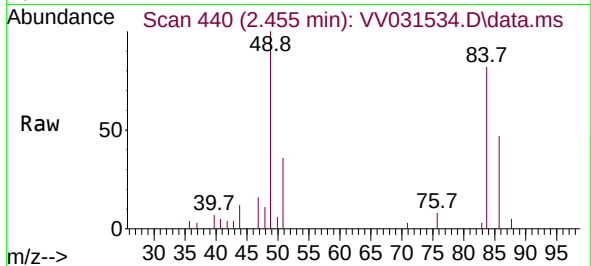
Tgt Ion: 96 Resp: 146425
Ion Ratio Lower Upper
96 100
61 182.8 128.9 239.5
63 91.4 95.3 177.1#





#16
Methylene chloride
Concen: 2.969 ug/L
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

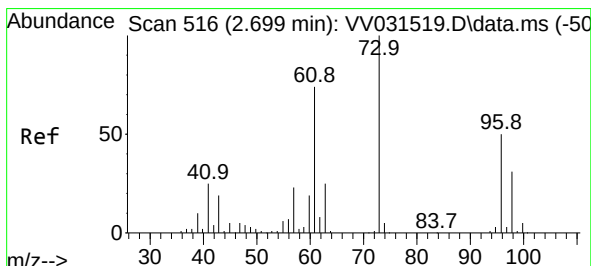
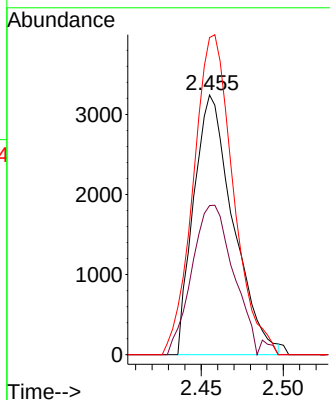
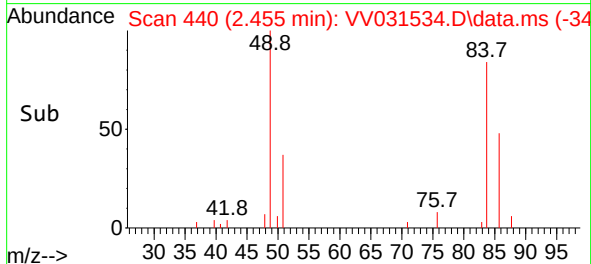
Instrument :
MSVOA_V
ClientSampleId :
EXYT2



Tgt Ion: 84 Resp: 5410
Ion Ratio Lower Upper
84 100
86 57.4 45.8 85.0
49 122.1 92.1 171.1

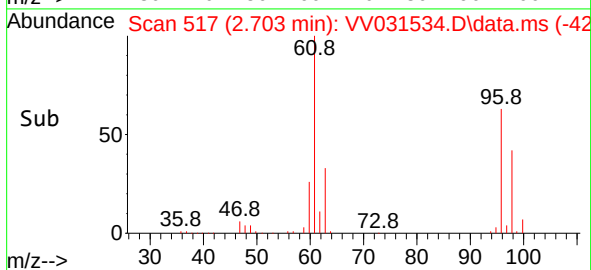
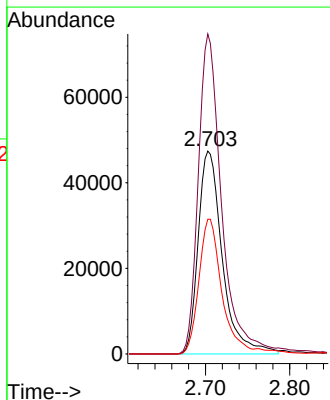
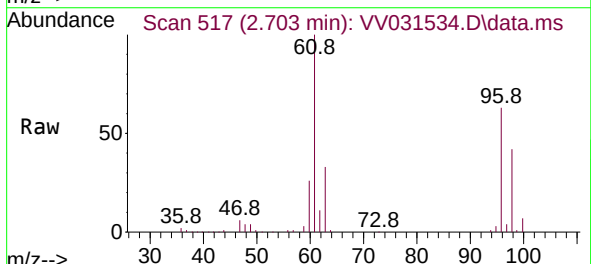
Manual Integrations
APPROVED

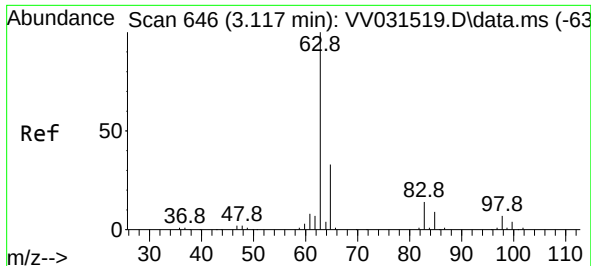
Reviewed By :John Carlone 06/16/2023
Supervised By :Mahesh Dadoda 06/16/2023



#17
trans-1,2-Dichloroethene
Concen: 62.356 ug/L
RT: 2.703 min Scan# 517
Delta R.T. 0.003 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

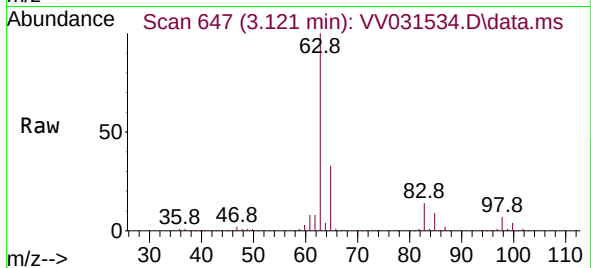
Tgt Ion: 96 Resp: 94692
Ion Ratio Lower Upper
96 100
61 157.7 102.5 190.3
98 68.4 44.1 81.9





#19
1,1-Dichloroethane
Concen: 2551.157 ug/L
RT: 3.121 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

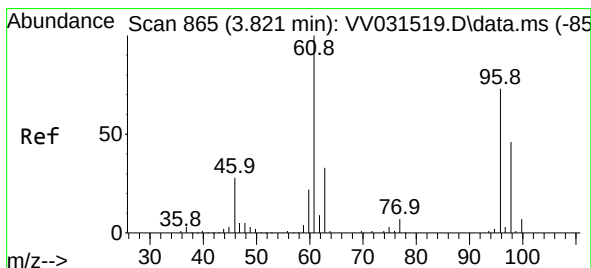
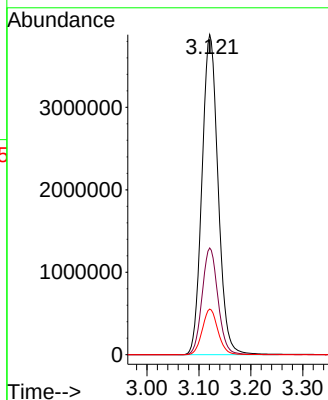
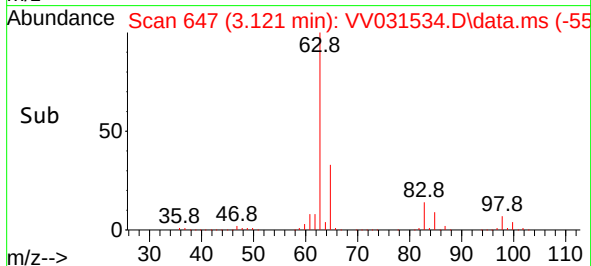
Instrument :
MSVOA_V
ClientSampleId :
EXYT2



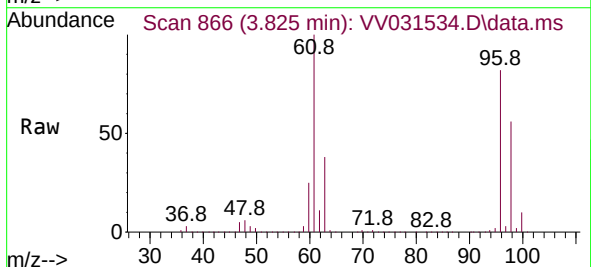
Tgt Ion: 63 Resp: 8361452
Ion Ratio Lower Upper
63 100
65 33.4 22.5 41.7
83 14.3 10.0 18.6

Manual Integrations
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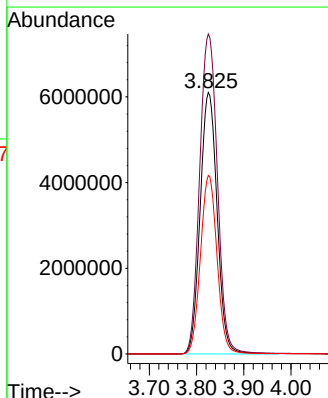
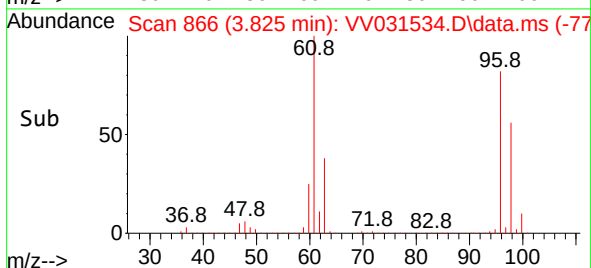
Reviewed By :John Carlone 06/16/2023
Supervised By :Mahesh Dadoda 06/16/2023

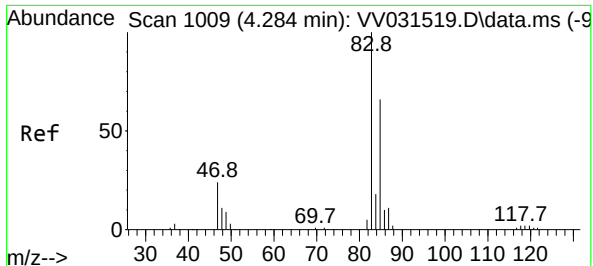


#20
cis-1,2-Dichloroethene
Concen: 9259.669 ug/L
RT: 3.825 min Scan# 866
Delta R.T. 0.003 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23



Tgt Ion: 96 Resp:15196174
Ion Ratio Lower Upper
96 100
61 122.4 98.6 183.0
98 68.3 45.7 84.9





#25

Chloroform

Concen: 2.954 ug/L

RT: 4.288 min Scan# 1006

Delta R.T. 0.003 min

Lab File: VV031534.D

Acq: 15 Jun 2023 16:23

Instrument :

MSVOA_V

ClientSampleId :

EXYT2

Tgt Ion: 83 Resp: 1006

Ion Ratio Lower Upper

83 100

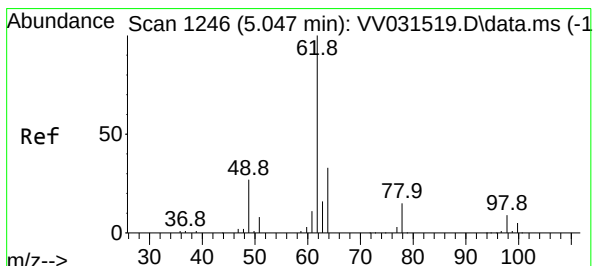
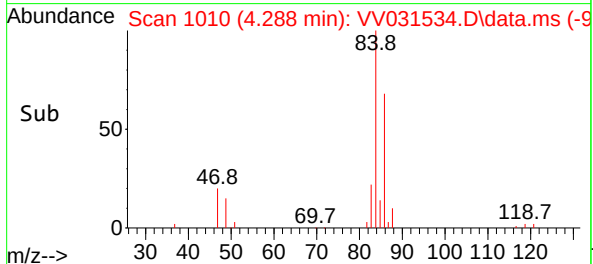
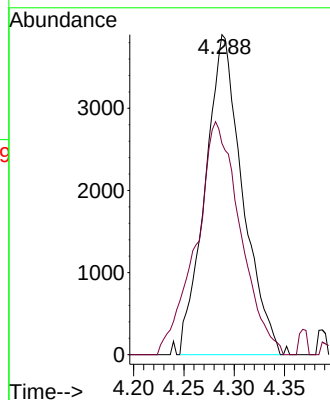
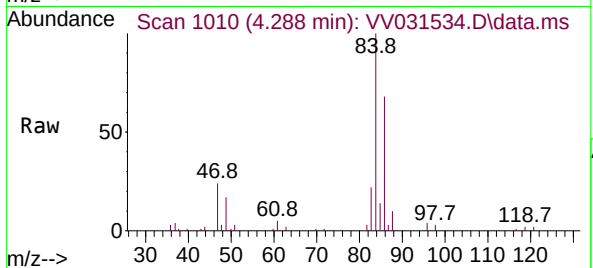
85 66.0 45.3 84.1

Manual Integrations

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#27

1,2-Dichloroethane

Concen: 25.268 ug/L

RT: 5.053 min Scan# 1248

Delta R.T. 0.007 min

Lab File: VV031534.D

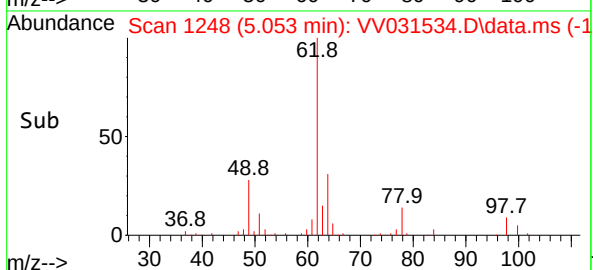
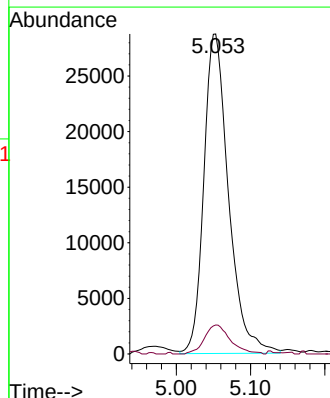
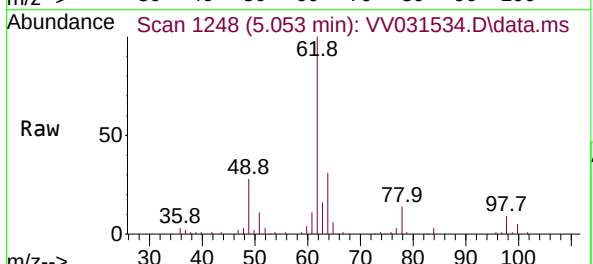
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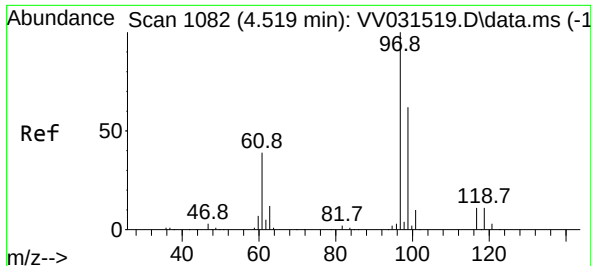
Tgt Ion: 62 Resp: 66444

Ion Ratio Lower Upper

62 100

98 9.0 6.6 9.8





#30

1,1,1-Trichloroethane

Concen: 2343.914 ug/L

RT: 4.526 min Scan# 1082

Delta R.T. 0.007 min

Lab File: VV031534.D

Acq: 15 Jun 2023 16:23

Instrument :

MSVOA_V

ClientSampleId :

EXYT2

Tgt Ion: 97 Resp: 7496170

Ion Ratio Lower Upper

97 100

99 65.2 51.8 77.6

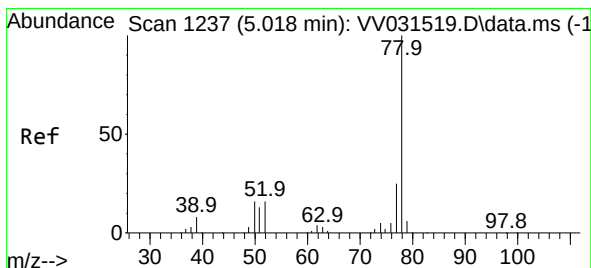
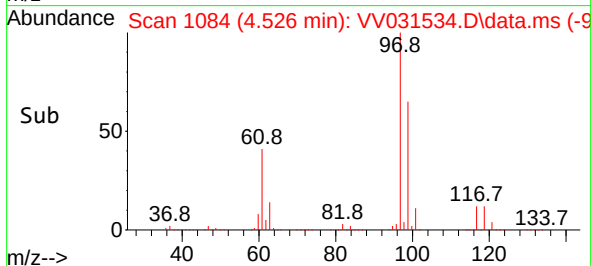
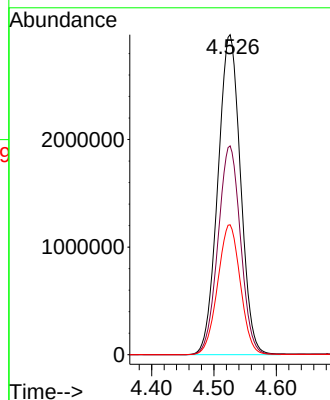
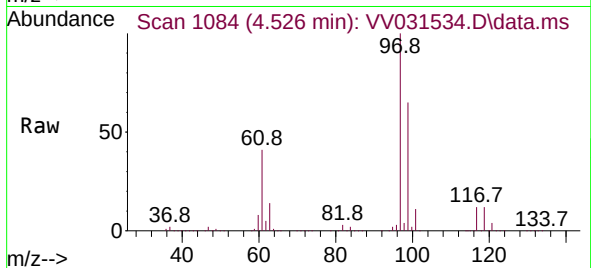
61 40.7 33.0 49.6

Manual Integrations

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#33

Benzene

Concen: 8.179 ug/L

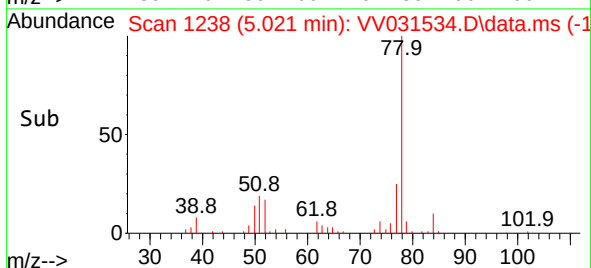
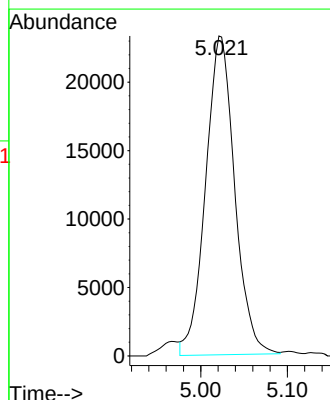
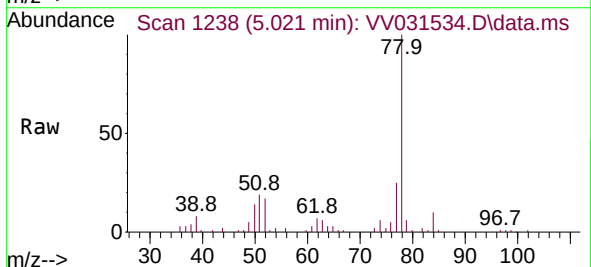
RT: 5.021 min Scan# 1238

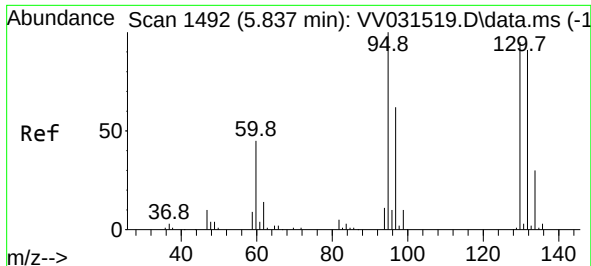
Delta R.T. 0.003 min

Lab File: VV031534.D

Acq: 15 Jun 2023 16:23

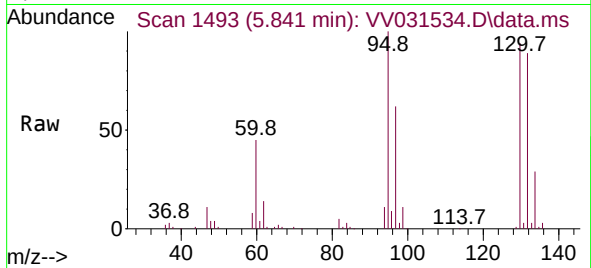
Tgt Ion: 78 Resp: 54316





#34
Trichloroethene
Concen: 59.720 ug/L
RT: 5.841 min Scan# 1492
Delta R.T. 0.003 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

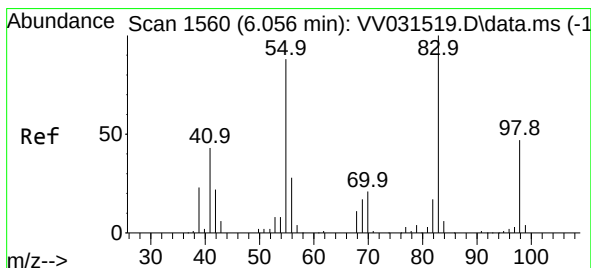
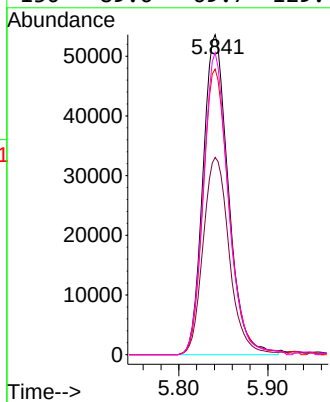
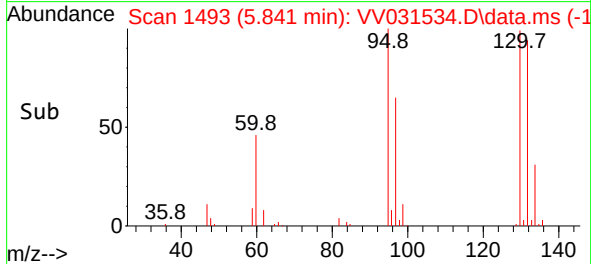
Instrument :
MSVOA_V
ClientSampleId :
EXYT2



Tgt Ion: 95 Resp: 10598
Ion Ratio Lower Upper
95 100
97 56.8 46.8 86.8
132 82.2 66.4 123.2
130 89.6 69.7 129.4

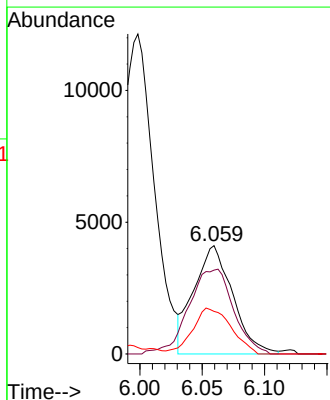
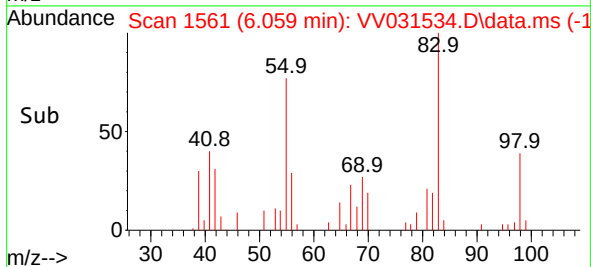
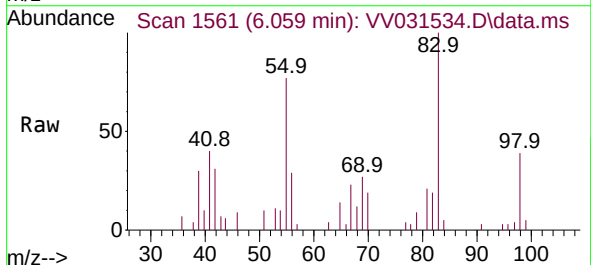
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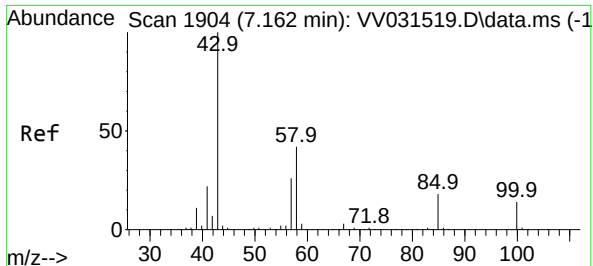
Reviewed By :John Carlone 06/16/2023
Supervised By :Mahesh Dadoda 06/16/2023



#35
Methylcyclohexane
Concen: 3.419 ug/L
RT: 6.059 min Scan# 1561
Delta R.T. 0.003 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Tgt Ion: 83 Resp: 8939
Ion Ratio Lower Upper
83 100
55 89.7 68.7 103.1
98 41.8 37.0 55.4





#40

4-Methyl-2-pentanone

Concen: 7.703 ug/L

RT: 7.172 min Scan# 1907

Delta R.T. 0.010 min

Lab File: VV031534.D

Acq: 15 Jun 2023 16:23

Instrument :

MSVOA_V

ClientSampleId :

EXYT2

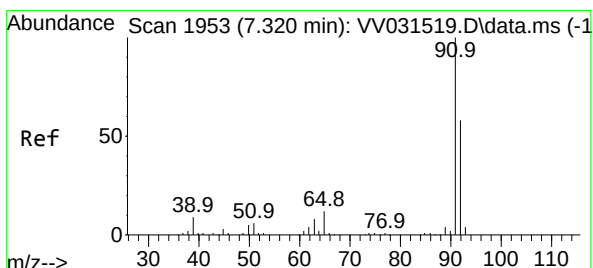
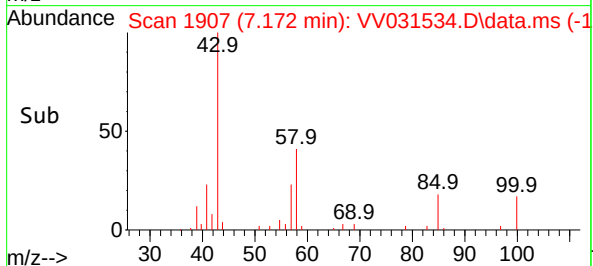
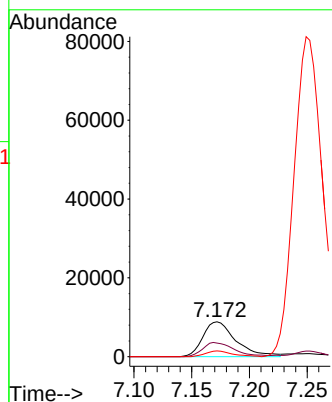
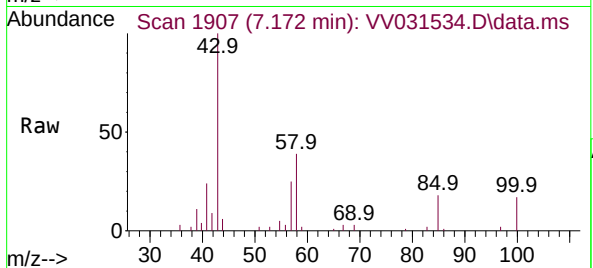
Tgt Ion: 43 Resp: 17640
 Ion Ratio Lower Upper
 43 100
 58 38.9 31.8 47.8
 100 13.3 11.1 16.7

Manual Integrations

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Reviewed By :John Carlone 06/16/2023

Supervised By :Mahesh Dadoda 06/16/2023



#42

Toluene

Concen: 103.641 ug/L

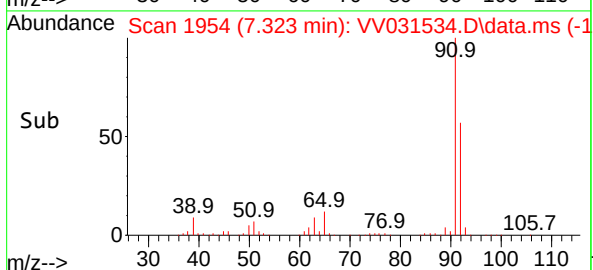
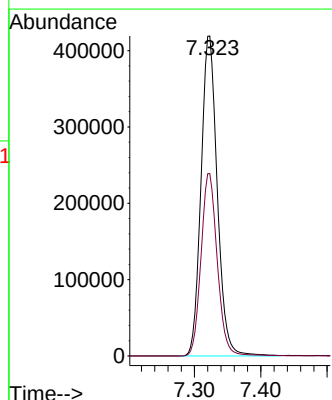
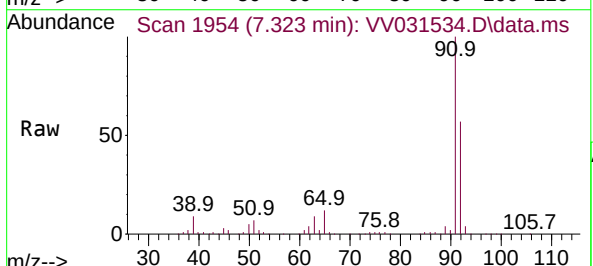
RT: 7.323 min Scan# 1954

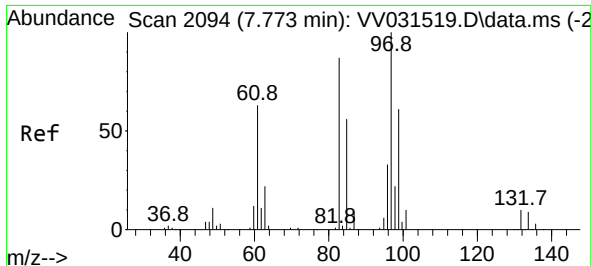
Delta R.T. 0.003 min

Lab File: VV031534.D

Acq: 15 Jun 2023 16:23

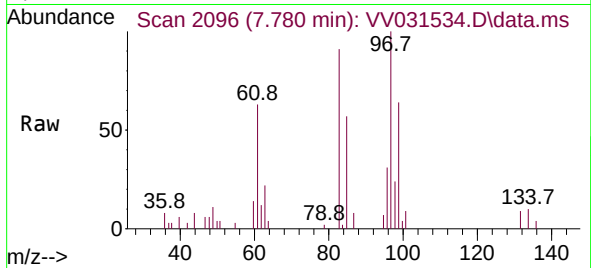
Tgt Ion: 91 Resp: 713653
 Ion Ratio Lower Upper
 91 100
 92 57.0 39.6 73.6





#45
1,1,2-Trichloroethane
Concen: 4.270 ug/L
RT: 7.780 min Scan# 2094
Delta R.T. 0.007 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

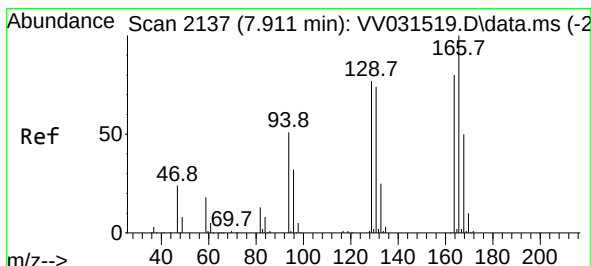
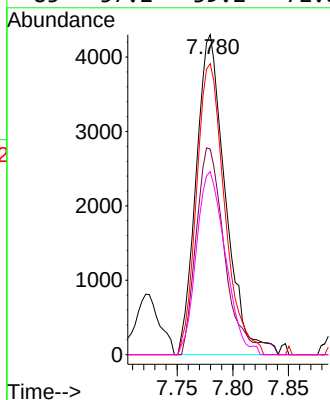
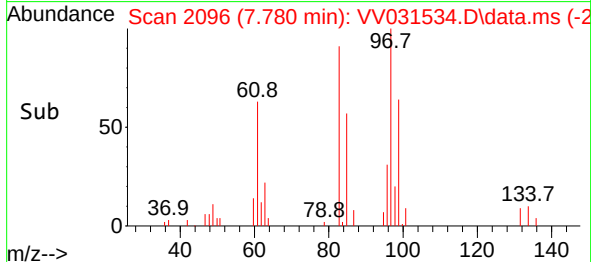
Instrument :
MSVOA_V
ClientSampleId :
EXYT2



Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	43.7	81.1
83	93.4	60.9	113.1
85	57.2	39.2	72.8

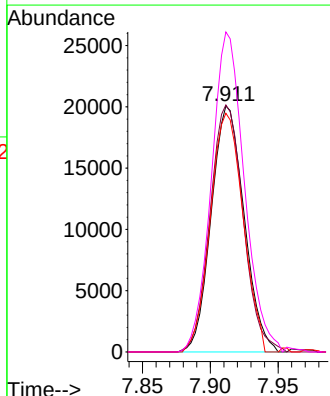
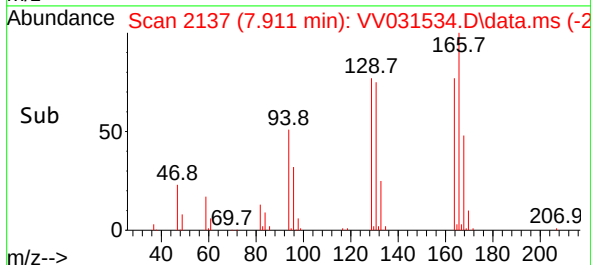
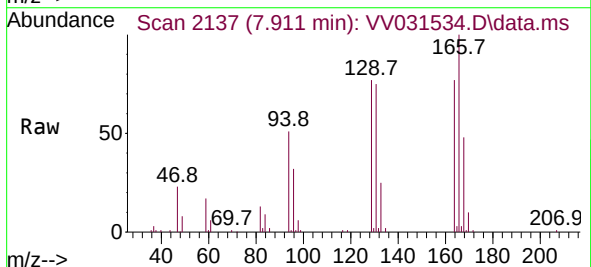
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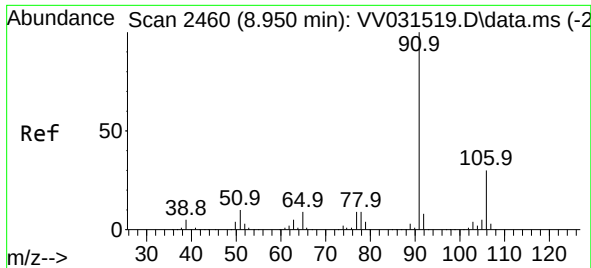
Reviewed By :John Carlone 06/16/2023
Supervised By :Mahesh Dadoda 06/16/2023



#46
Tetrachloroethene
Concen: 24.272 ug/L
RT: 7.911 min Scan# 2137
Delta R.T. 0.000 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Tgt Ion	Ratio	Lower	Upper
164	100		
129	102.8	68.4	127.0
131	99.4	67.6	125.6
166	133.7	91.3	169.5





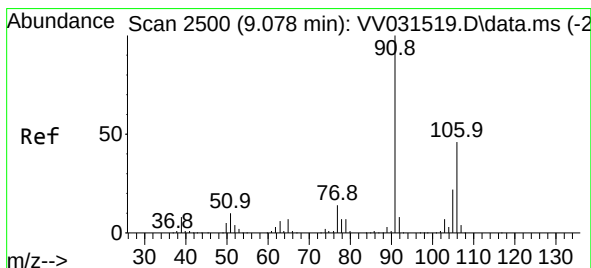
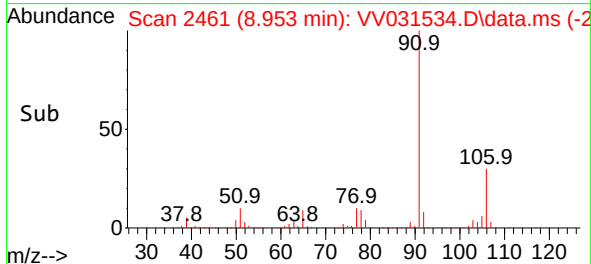
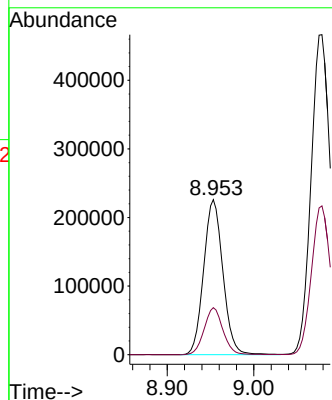
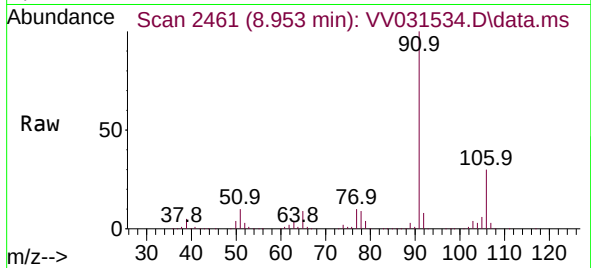
#52
Ethylbenzene
Concen: 45.439 ug/L
RT: 8.953 min Scan# 2460
Delta R.T. 0.003 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Instrument :
MSVOA_V
ClientSampleId :
EXYT2

Tgt Ion: 91 Resp: 349128
Ion Ratio Lower Upper
91 100
106 30.3 20.8 38.6

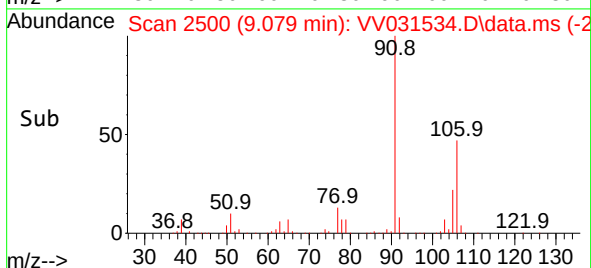
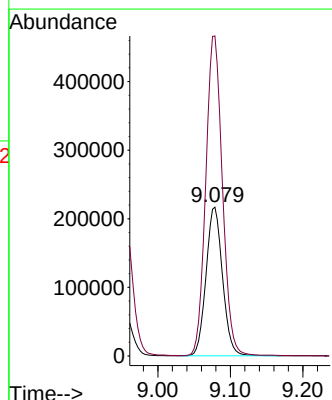
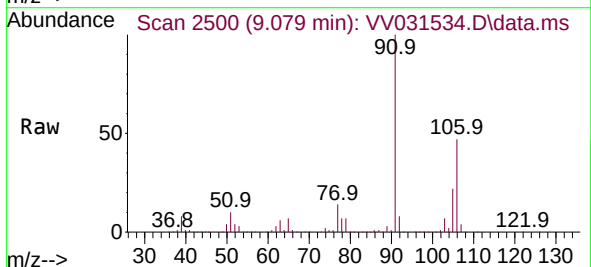
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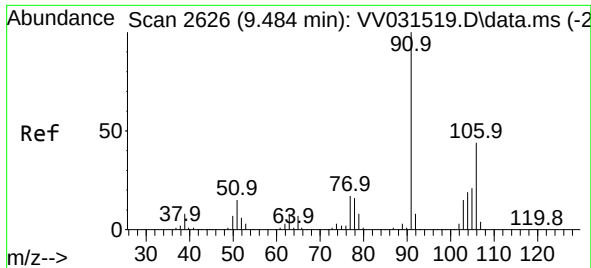
Reviewed By :John Carlone 06/16/2023
Supervised By :Mahesh Dadoda 06/16/2023



#53
m,p-Xylene
Concen: 121.843 ug/L
RT: 9.079 min Scan# 2500
Delta R.T. 0.000 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Tgt Ion:106 Resp: 342838
Ion Ratio Lower Upper
106 100
91 215.0 149.0 276.6





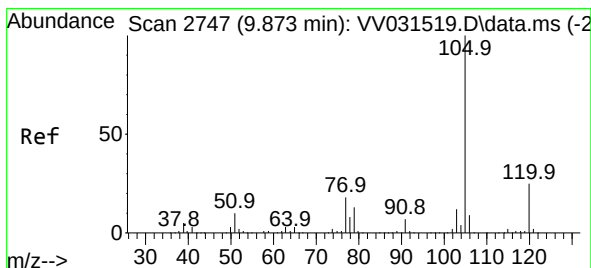
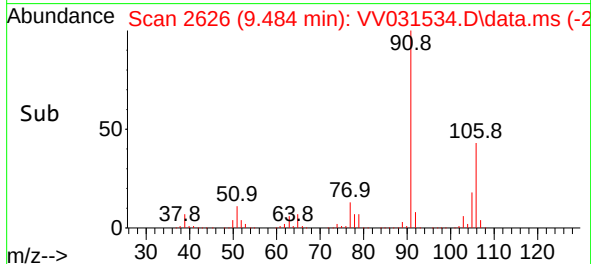
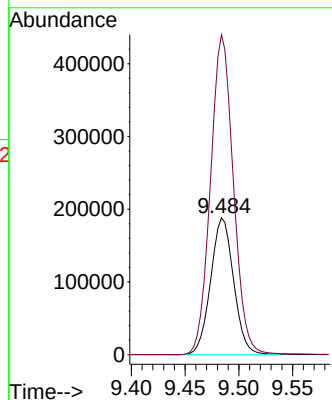
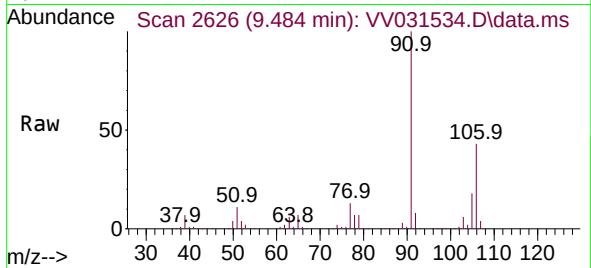
#54
o-Xylene
Concen: 104.911 ug/L
RT: 9.484 min Scan# 206
Delta R.T. 0.000 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Instrument :
MSVOA_V
ClientSampleId :
EXYT2

Tgt Ion:106 Resp: 28013
Ion Ratio Lower Upper
106 100
91 233.7 161.3 299.7

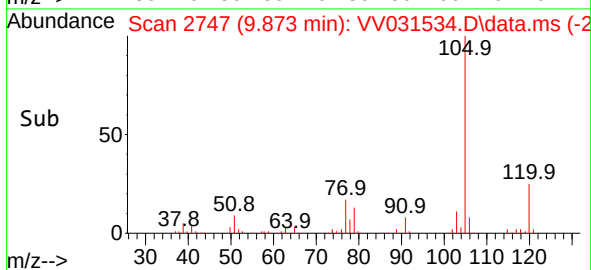
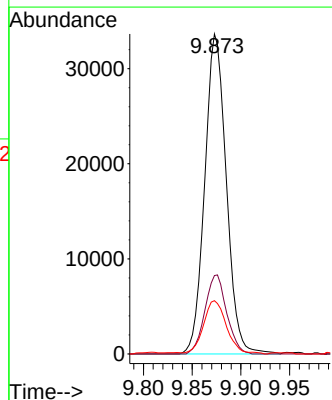
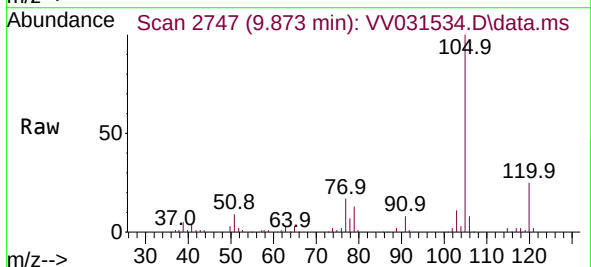
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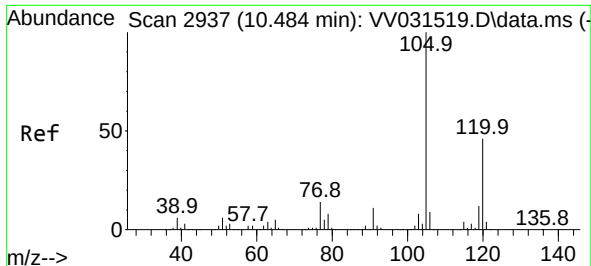
Reviewed By :John Carlone 06/16/2023
Supervised By :Mahesh Dadoda 06/16/2023



#60
Isopropylbenzene
Concen: 6.589 ug/L
RT: 9.873 min Scan# 2747
Delta R.T. 0.000 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Tgt Ion:105 Resp: 51874
Ion Ratio Lower Upper
105 100
120 24.8 20.2 30.2
77 16.7 13.5 20.3





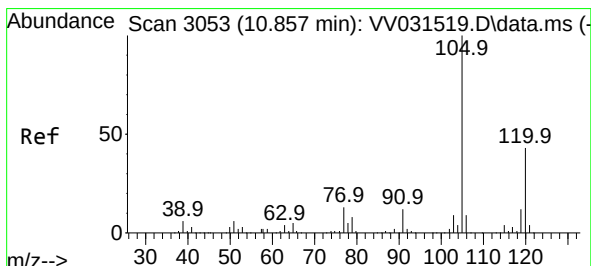
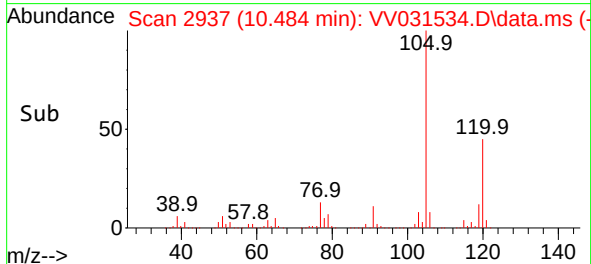
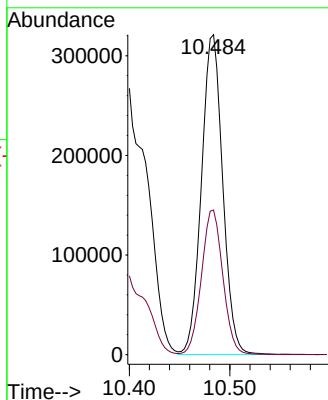
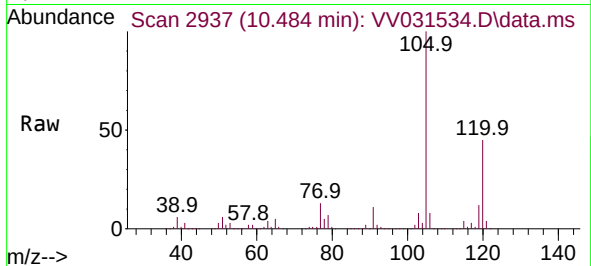
#62
1,3,5-Trimethylbenzene
Concen: 72.275 ug/L
RT: 10.484 min Scan# 2937
Delta R.T. 0.000 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Instrument :
MSVOA_V
ClientSampleId :
EXYT2

Tgt Ion:105 Resp: 470302
Ion Ratio Lower Upper
105 100
120 45.7 36.2 54.2

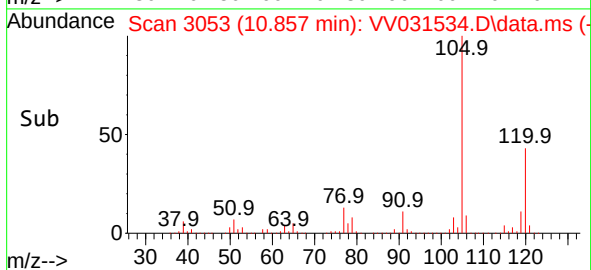
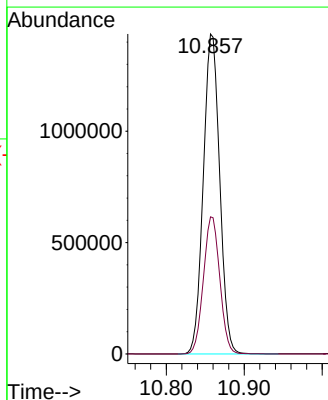
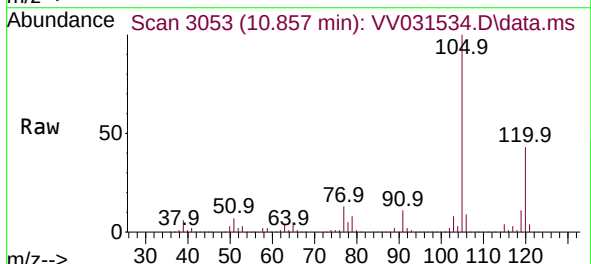
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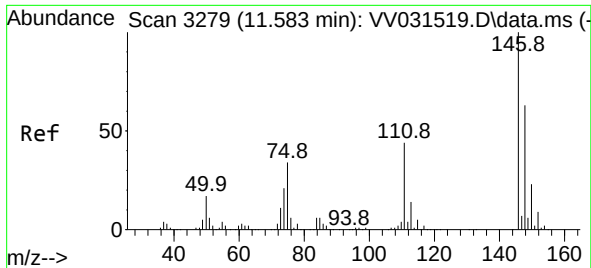
Reviewed By :John Carlone 06/16/2023
Supervised By :Mahesh Dadoda 06/16/2023



#63
1,2,4-Trimethylbenzene
Concen: 345.823 ug/L
RT: 10.857 min Scan# 3053
Delta R.T. 0.000 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

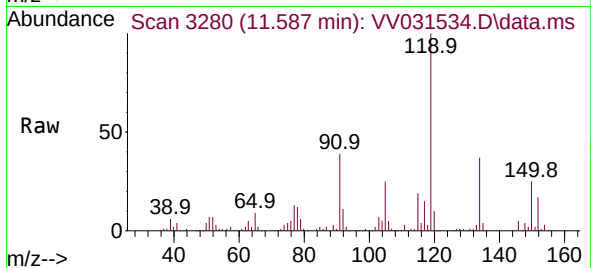
Tgt Ion:105 Resp: 2096724
Ion Ratio Lower Upper
105 100
120 42.8 33.4 50.2





#67
1,2-Dichlorobenzene
Concen: 1.677 ug/L
RT: 11.587 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Instrument :
MSVOA_V
ClientSampleId :
EXYT2



Tgt Ion:146 Resp: 668
Ion Ratio Lower Upper
146 100
111 52.6 35.9 53.9
148 74.3 52.6 78.8

Manual Integrations
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Reviewed By :John Carlone 06/16/2023
Supervised By :Mahesh Dadoda 06/16/2023

