

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW061523\
 Data File : VW031536.D
 Acq On : 15 Jun 2023 17:09
 Operator : SY/MD
 Sample : 03249-14
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXYT4

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Jun 16 02:50:16 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

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

Internal Standards						
1) 1,4-Difluorobenzene	5.542	114	232905	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	231065	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.191	152	141400	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	63005	40.647	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	81.300%
7) Chloroethane-d5	1.535	69	60440	44.688	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.380%
11) 1,1-Dichloroethene-d2	2.066	65	34327	42.969	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.940%
21) 2-Butanone-d5	3.818	46	128909	102.706	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.710%
24) Chloroform-d	4.262	84	166865	42.984	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.960%
26) 1,2-Dichloroethane-d4	4.950	65	109378	45.033	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.060%
32) Benzene-d6	4.969	84	294351	45.257	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.520%
36) 1,2-Dichloropropane-d6	5.995	67	104451	45.311	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.620%
41) Toluene-d8	7.249	98	256110	42.911	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.820%
43) trans-1,3-Dichloroprop...	7.558	79	51451	45.784	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.560%
47) 2-Hexanone-d5	8.030	63	101370	111.374	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	111.370%
56) 1,1,2,2-Tetrachloroeth...	10.159	84	160671	46.177	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.360%
66) 1,2-Dichlorobenzene-d4	11.567	152	128972	47.850	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.700%
Target Compounds						
5) Vinyl chloride	1.314	62	51088m	22.108	ug/L	
9) Trichlorofluoromethane	1.722	101	50394	13.108	ug/L	97
12) 1,1-Dichloroethene	2.079	96	240537m	139.577	ug/L	
16) Methylene chloride	2.455	84	4453	2.061	ug/L	95
17) trans-1,2-Dichloroethene	2.706	96	145951	81.135	ug/L	98
19) 1,1-Dichloroethane	3.121	63	3582373	922.708	ug/L	99
20) cis-1,2-Dichloroethene	3.828	96	21862636	11246.091	ug/L	78
25) Chloroform	4.288	83	26734	6.624	ug/L	98
27) 1,2-Dichloroethane	5.056	62	24990	8.023	ug/L #	86
30) 1,1,1-Trichloroethane	4.526	97	27978358m	7552.212	ug/L	
33) Benzene	5.021	78	77217	10.037	ug/L	100
34) Trichloroethene	5.841	95	136093	66.203	ug/L	97
35) Methylcyclohexane	6.063	83	13749	4.539	ug/L	98
40) 4-Methyl-2-pentanone	7.175	43	4176	1.574	ug/L #	76
42) Toluene	7.320	91	1509197	189.209	ug/L	99
45) 1,1,2-Trichloroethane	7.780	97	15238	7.141	ug/L	97
46) Tetrachloroethene	7.911	164	114701	71.092	ug/L	96
52) Ethylbenzene	8.953	91	523728	58.844	ug/L	99
53) m,p-Xylene	9.075	106	913666	280.318	ug/L	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	9.484	106	461680	149.262	ug/L	100
60) Isopropylbenzene	9.873	105	84099	9.329	ug/L	100
62) 1,3,5-Trimethylbenzene	10.484	105	702908	94.344	ug/L	99
63) 1,2,4-Trimethylbenzene	10.860	105	3043520	438.418	ug/L	98
67) 1,2-Dichlorobenzene	11.587	146	7764	1.702	ug/L	89

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

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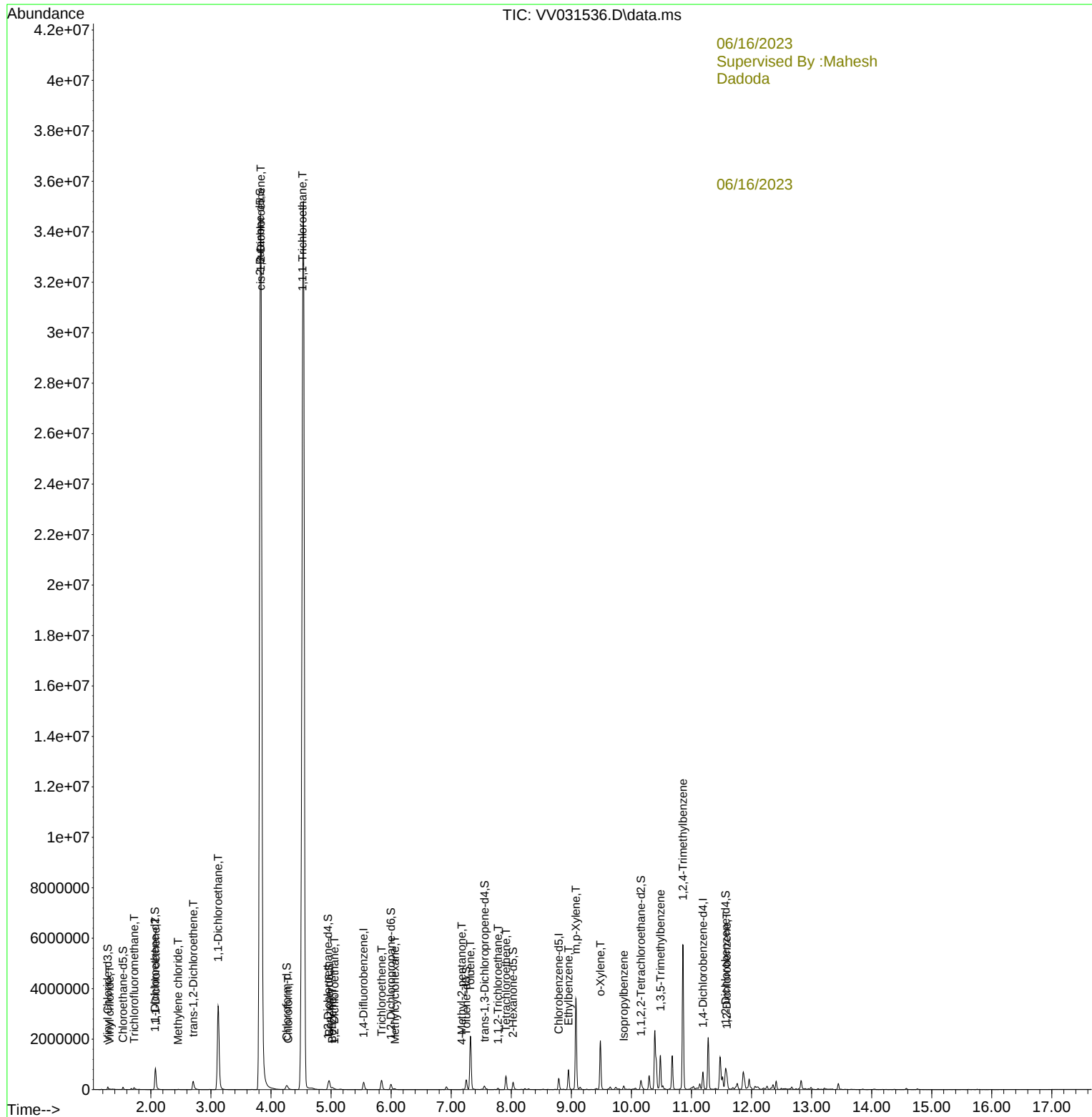
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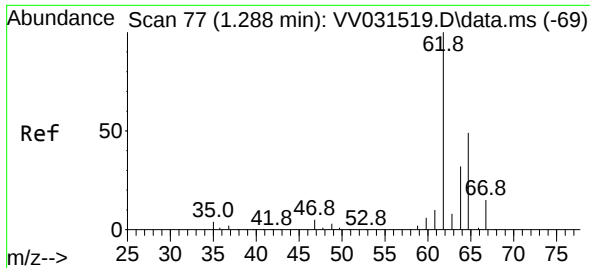
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Quant Title : VOC Analysis
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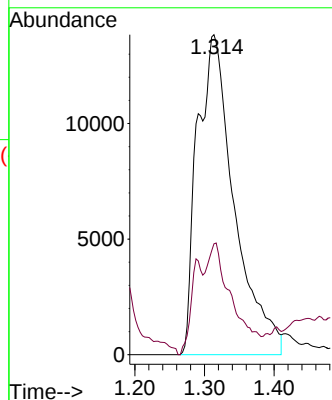
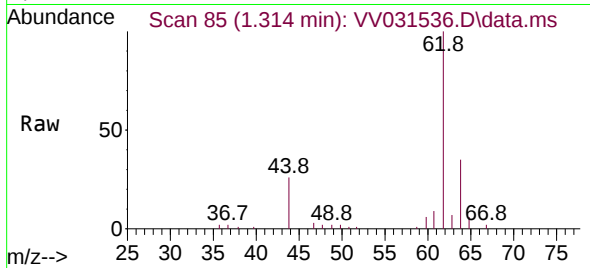
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 Vinyl chloride
 Concen: 22.108 ug/L m
 RT: 1.314 min Scan# 81
 Delta R.T. 0.026 min
 Lab File: VV031536.D
 Acq: 15 Jun 2023 17:09

Instrument :
 MSVOA_V
 ClientSampleId :
 EXYT4

Tgt Ion: 62 Resp: 51088
 Ion Ratio Lower Upper
 62 100
 64 34.6 23.4 43.4

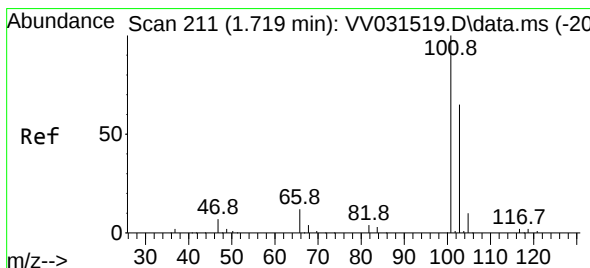
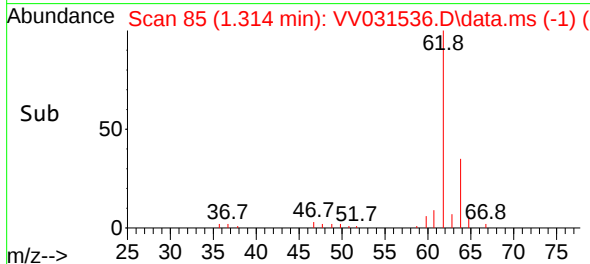
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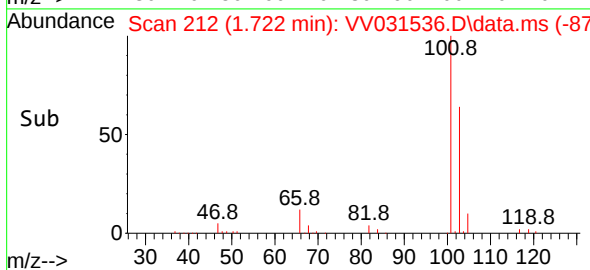
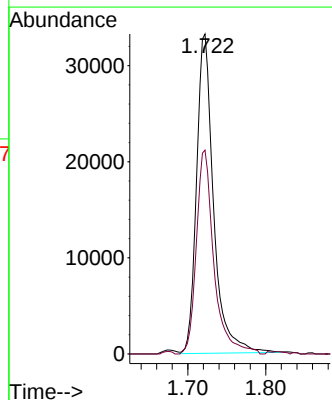
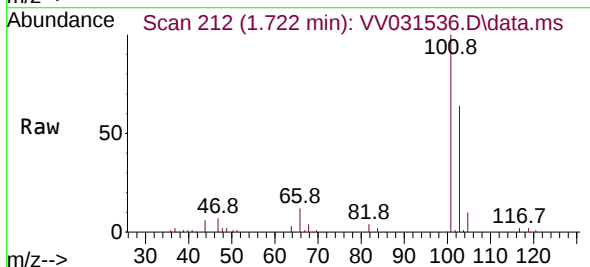
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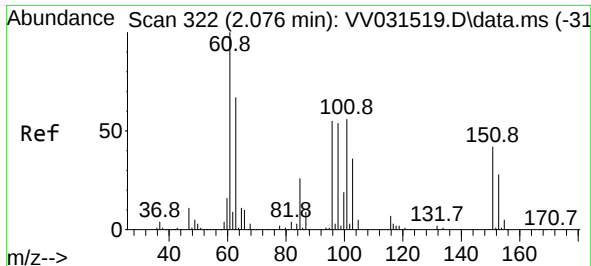
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#9
 Trichlorofluoromethane
 Concen: 13.108 ug/L
 RT: 1.722 min Scan# 212
 Delta R.T. 0.003 min
 Lab File: VV031536.D
 Acq: 15 Jun 2023 17:09

Tgt Ion:101 Resp: 50394
 Ion Ratio Lower Upper
 101 100
 103 65.8 50.9 76.3





#12

1,1-Dichloroethene

Concen: 139.577 ug/L m

RT: 2.079 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV031536.D

Acq: 15 Jun 2023 17:09

Instrument :

MSVOA_V

ClientSampleId :

EXYT4

Tgt Ion: 96 Resp: 24053

Ion Ratio Lower Upper

96 100

61 179.5 128.9 239.5

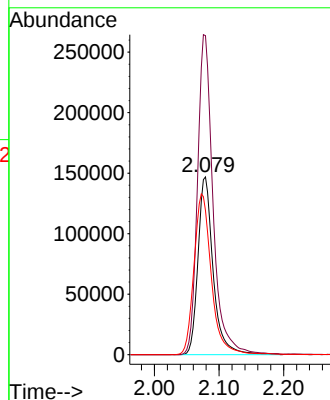
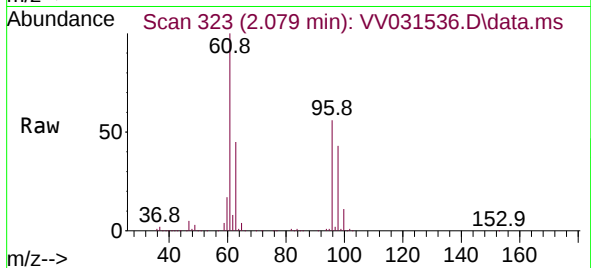
63 81.1 95.3 177.1

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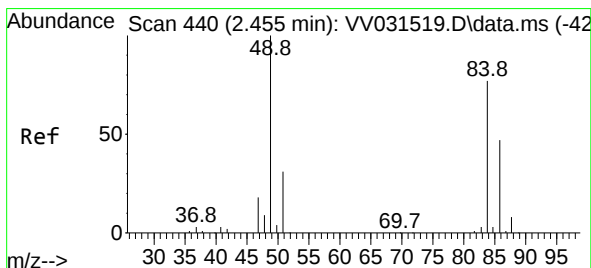
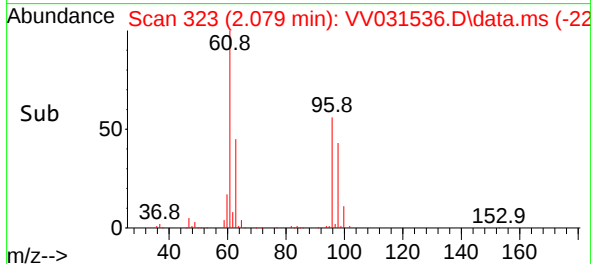


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#16

Methylene chloride

Concen: 2.061 ug/L

RT: 2.455 min Scan# 440

Delta R.T. 0.000 min

Lab File: VV031536.D

Acq: 15 Jun 2023 17:09

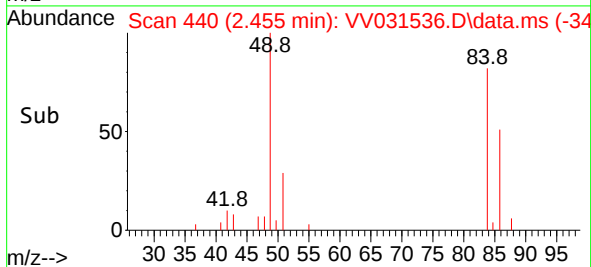
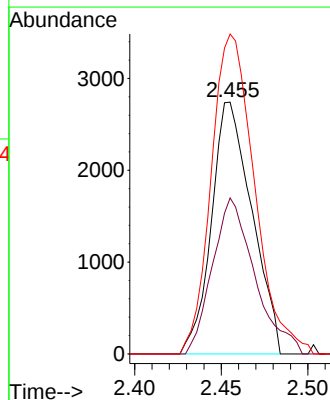
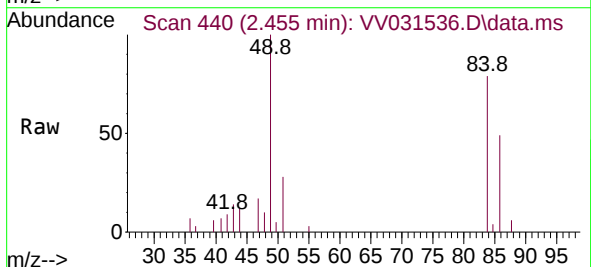
Tgt Ion: 84 Resp: 4453

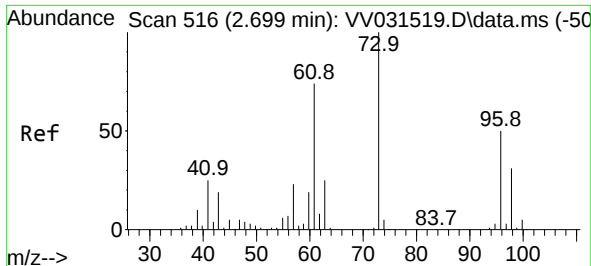
Ion Ratio Lower Upper

84 100

86 59.2 45.8 85.0

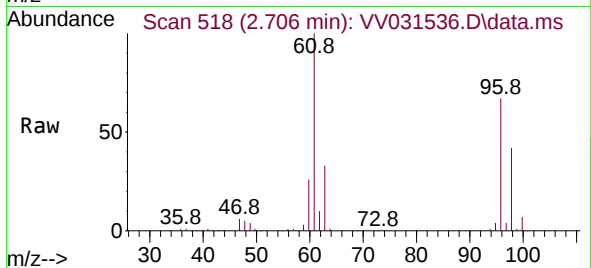
49 127.1 92.1 171.1





#17
trans-1,2-Dichloroethene
Concen: 81.135 ug/L
RT: 2.706 min Scan# 516
Delta R.T. 0.007 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

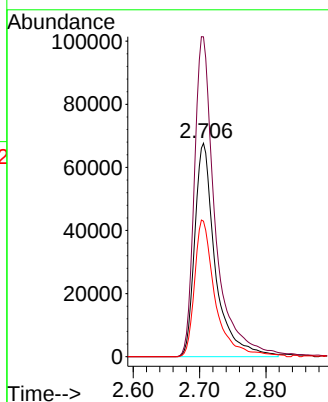
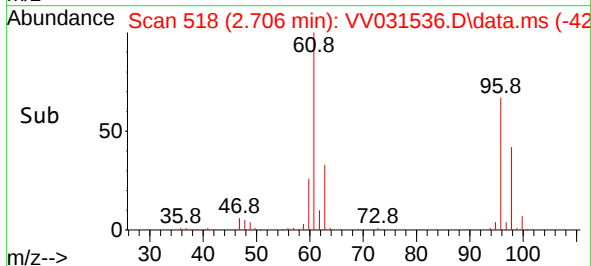
Instrument :
MSVOA_V
ClientSampleId :
EXYT4



Tgt Ion: 96 Resp: 14595
Ion Ratio Lower Upper
96 100
61 149.9 102.5 190.3
98 63.5 44.1 81.9

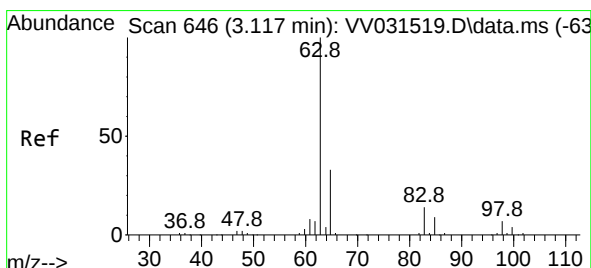
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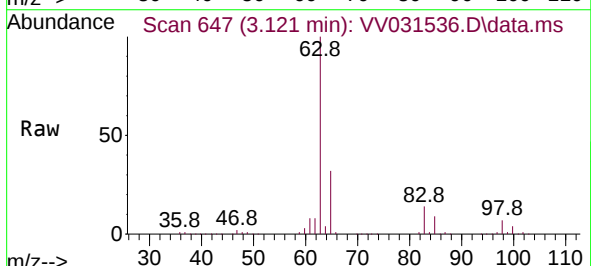


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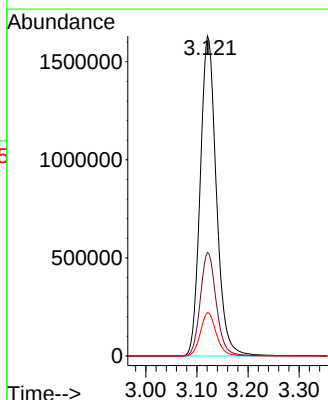
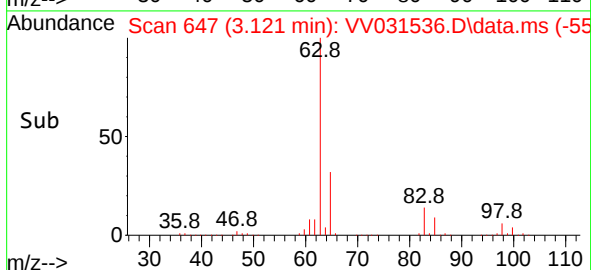
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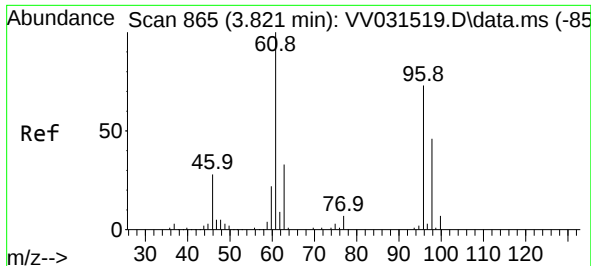


#19
1,1-Dichloroethane
Concen: 922.708 ug/L
RT: 3.121 min Scan# 647
Delta R.T. 0.003 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09



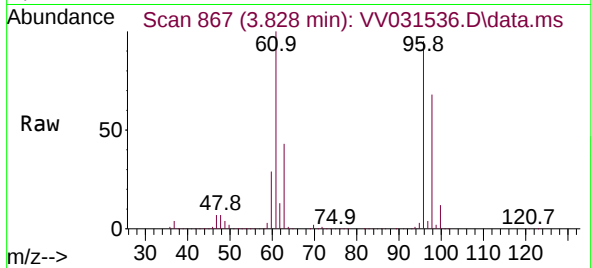
Tgt Ion: 63 Resp: 3582373
Ion Ratio Lower Upper
63 100
65 32.4 22.5 41.7
83 13.6 10.0 18.6





#20
cis-1,2-Dichloroethene
Concen: 11246.091 ug/L
RT: 3.828 min Scan# 80
Delta R.T. 0.007 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

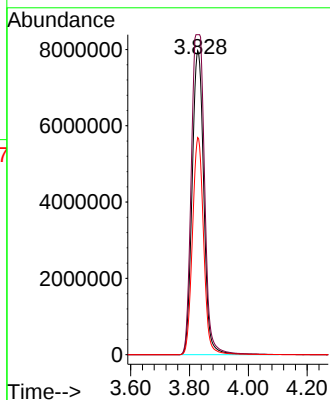
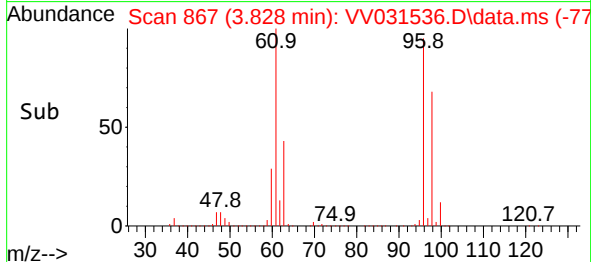
Instrument :
MSVOA_V
ClientSampleId :
EXYT4



Tgt Ion: 96 Resp: 21862630
Ion Ratio Lower Upper
96 100
61 105.3 98.6 183.0
98 71.4 45.7 84.9

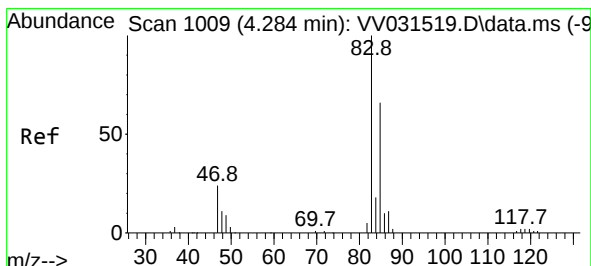
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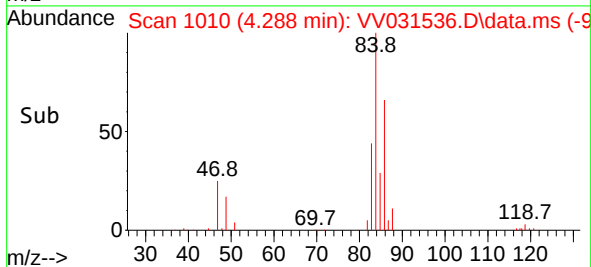
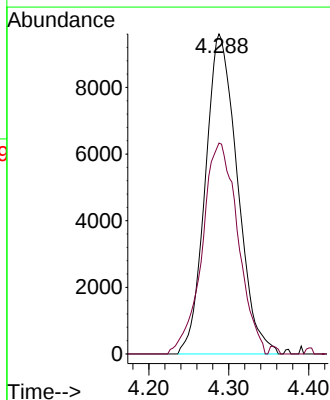
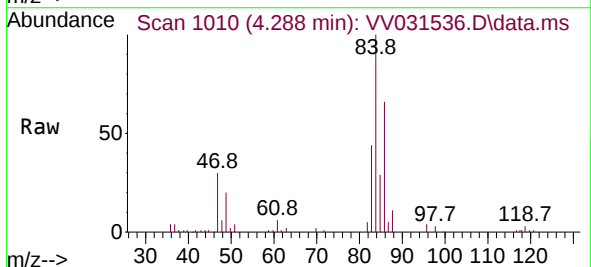
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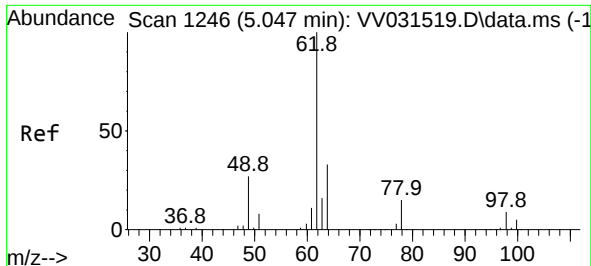
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#25
Chloroform
Concen: 6.624 ug/L
RT: 4.288 min Scan# 1010
Delta R.T. 0.003 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

Tgt Ion: 83 Resp: 26734
Ion Ratio Lower Upper
83 100
85 65.9 45.3 84.1





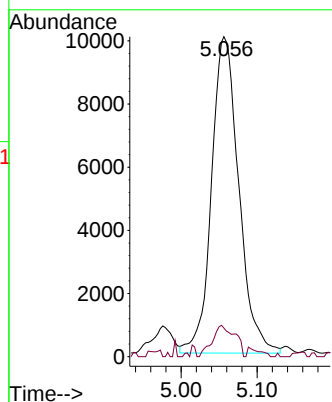
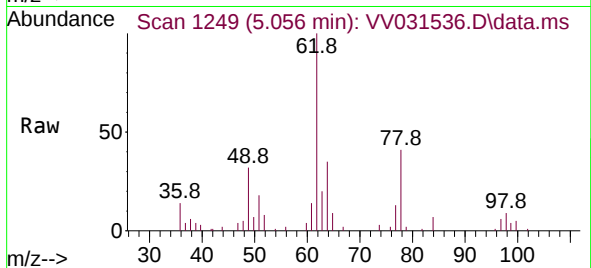
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1,2-Dichloroethane
Concen: 8.023 ug/L
RT: 5.056 min Scan# 11
Delta R.T. 0.010 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

Instrument :
MSVOA_V
ClientSampleId :
EXYT4

Tgt Ion: 62 Resp: 24990
Ion Ratio Lower Upper
62 100
98 13.1 6.6 9.8

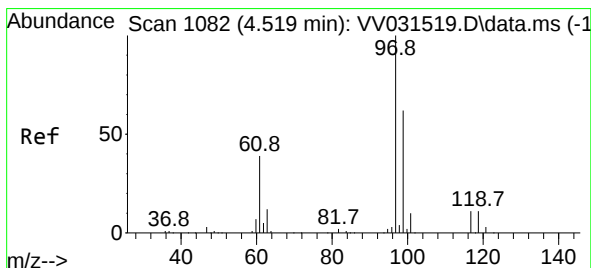
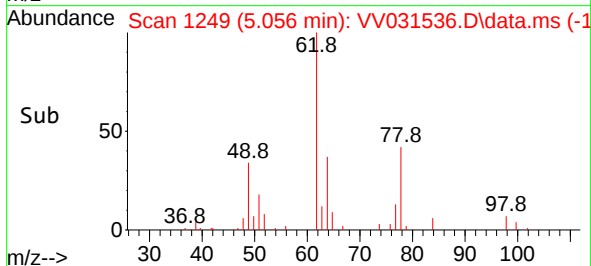
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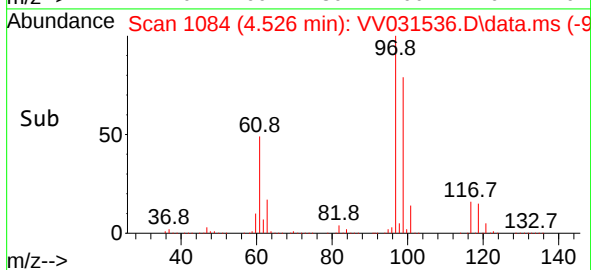
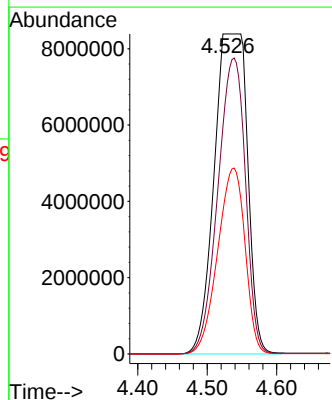
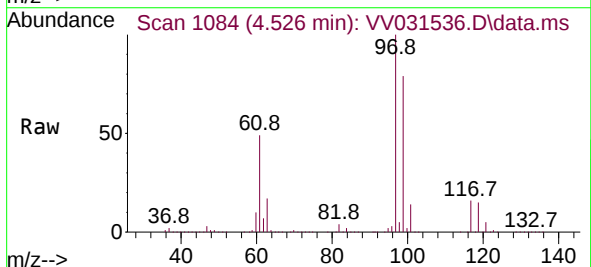
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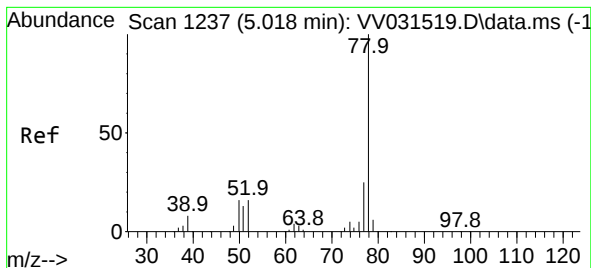
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#30
1,1,1-Trichloroethane
Concen: 7552.212 ug/L m
RT: 4.526 min Scan# 1084
Delta R.T. 0.007 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

Tgt Ion: 97 Resp:27978358
Ion Ratio Lower Upper
97 100
99 0.0 51.8 77.6#
61 0.0 33.0 49.6#





#33

Benzene

Concen: 10.037 ug/L

RT: 5.021 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV031536.D

Acq: 15 Jun 2023 17:09

Instrument :

MSVOA_V

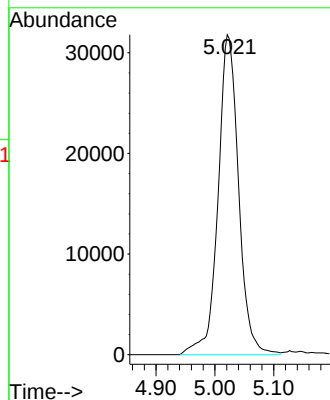
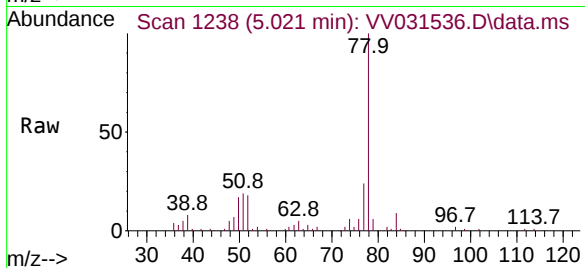
ClientSampleId :

EXYT4

Tgt Ion: 78 Resp: 7721

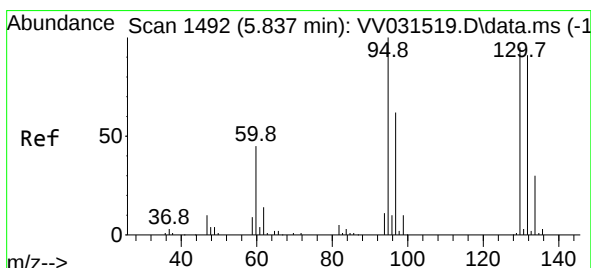
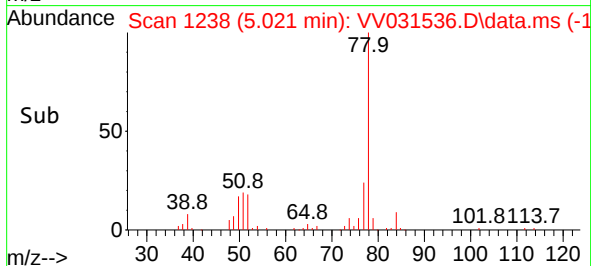
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#34

Trichloroethene

Concen: 66.203 ug/L

RT: 5.841 min Scan# 1493

Delta R.T. 0.003 min

Lab File: VV031536.D

Acq: 15 Jun 2023 17:09

Tgt Ion: 95 Resp: 136093

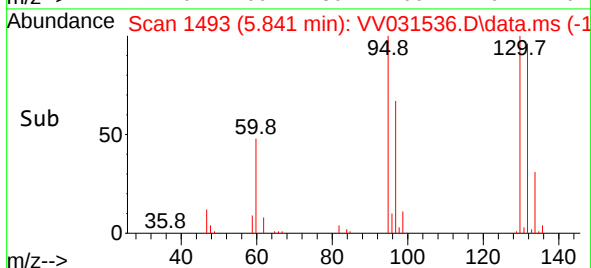
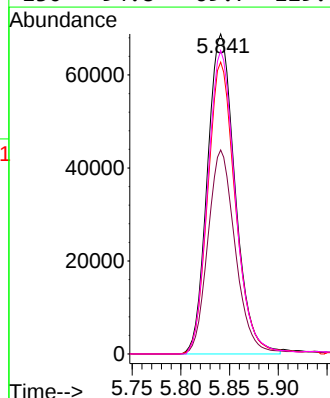
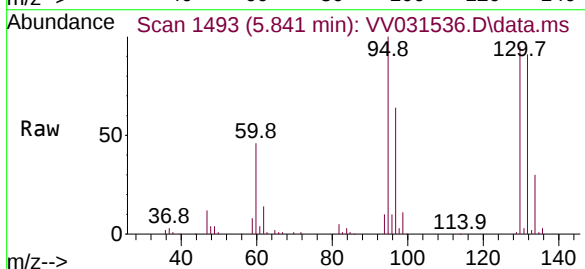
Ion Ratio Lower Upper

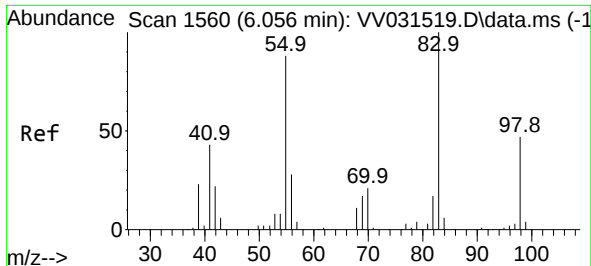
95 100

97 66.6 46.8 86.8

132 91.2 66.4 123.2

130 94.8 69.7 129.4





#35

Methylcyclohexane

Concen: 4.539 ug/L

RT: 6.063 min Scan# 1

Delta R.T. 0.007 min

Lab File: VV031536.D

Acq: 15 Jun 2023 17:09

Instrument :

MSVOA_V

ClientSampleId :

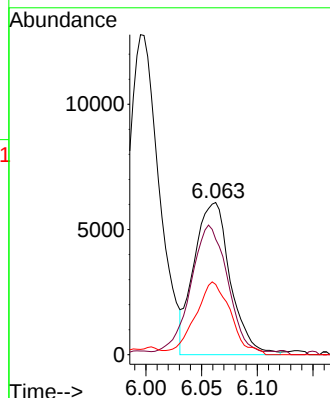
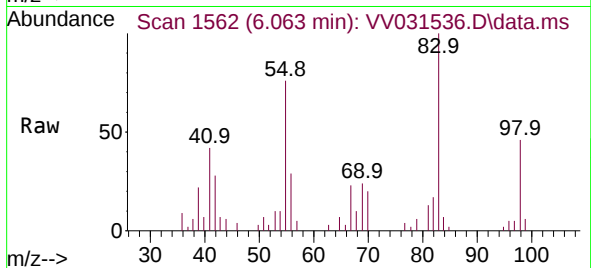
EXYT4

Tgt Ion: 83 Resp: 13749

Ion	Ratio	Lower	Upper
83	100		
55	87.8	68.7	103.1
98	46.8	37.0	55.4

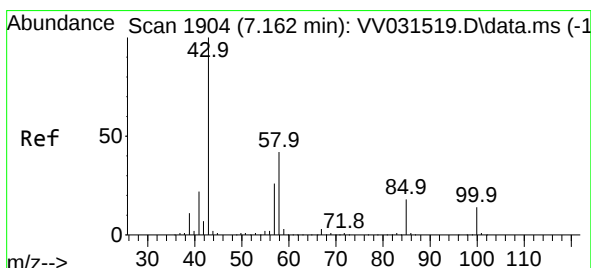
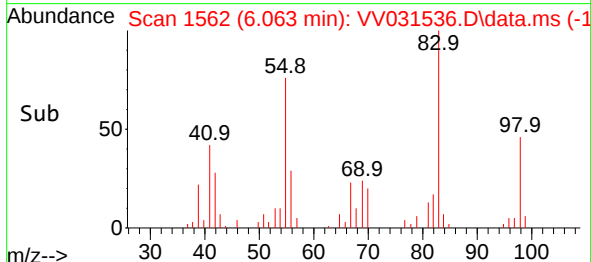
Manual Integrations
APPROVED

Reviewed By :John
Carlone



06/16/2023
Supervised By :Mahesh
Dadoda

06/16/2023



#40

4-Methyl-2-pentanone

Concen: 1.574 ug/L

RT: 7.175 min Scan# 1908

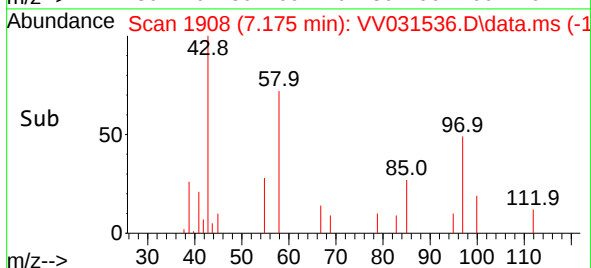
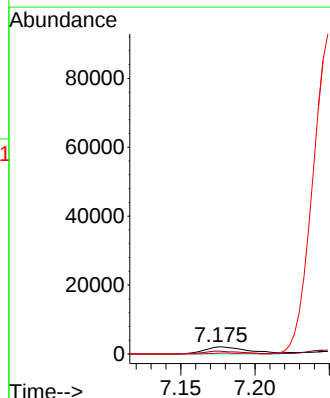
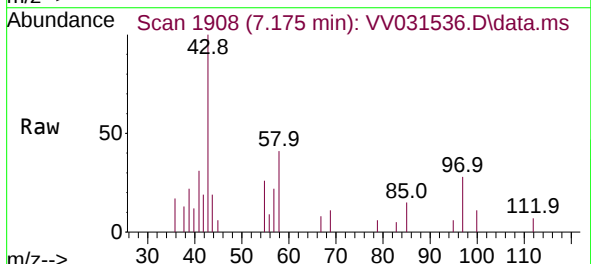
Delta R.T. 0.013 min

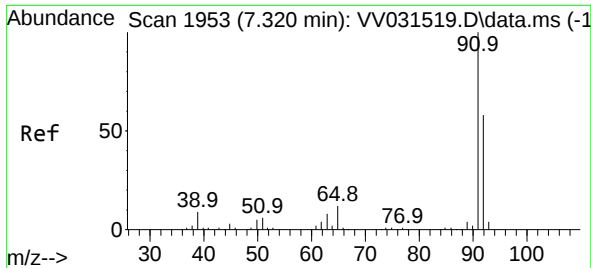
Lab File: VV031536.D

Acq: 15 Jun 2023 17:09

Tgt Ion: 43 Resp: 4176

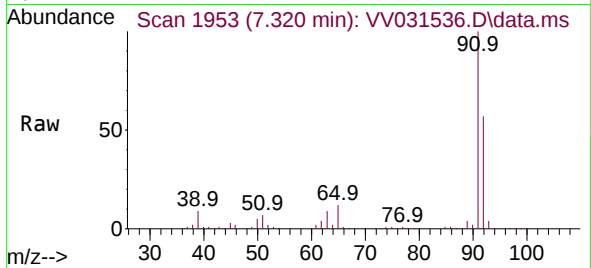
Ion	Ratio	Lower	Upper
43	100		
58	23.8	31.8	47.8#
100	7.1	11.1	16.7#





#42
Toluene
Concen: 189.209 ug/L
RT: 7.320 min Scan# 1953
Delta R.T. 0.000 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

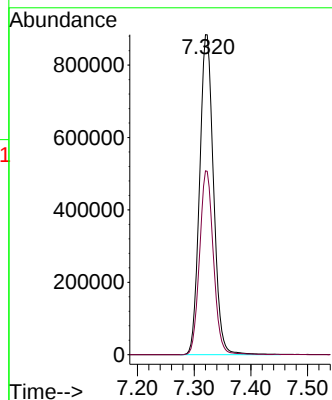
Instrument :
MSVOA_V
ClientSampleId :
EXYT4



Tgt Ion: 91 Resp: 150919
Ion Ratio Lower Upper
91 100
92 57.4 39.6 73.6

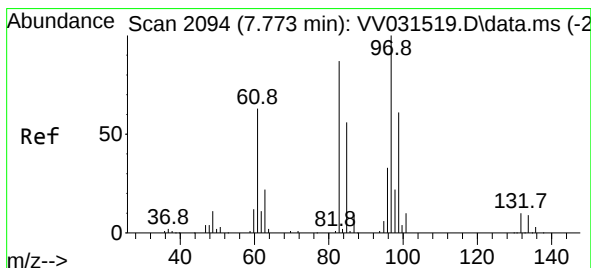
Manual Integrations
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Reviewed By :John
Carlone



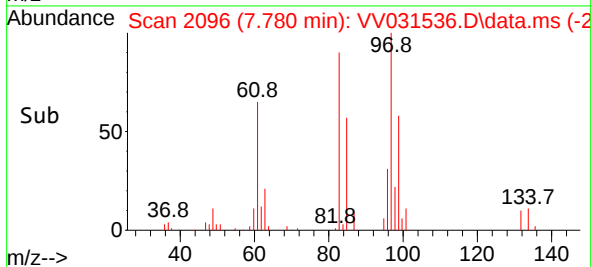
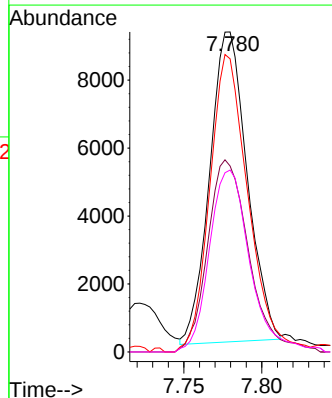
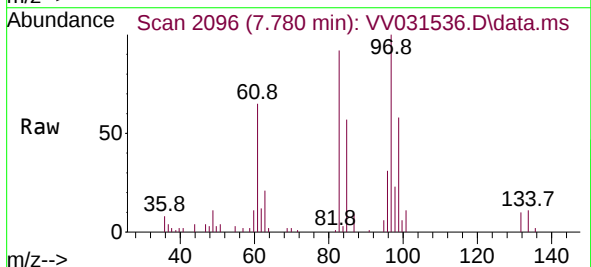
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Supervised By :Mahesh
Dadoda

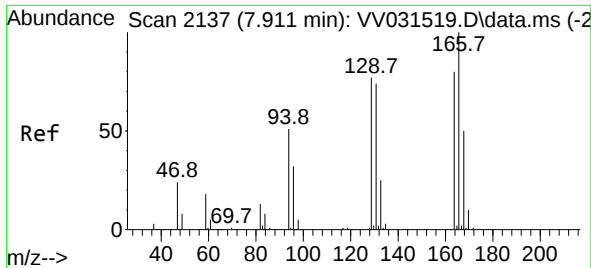
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#45
1,1,2-Trichloroethane
Concen: 7.141 ug/L
RT: 7.780 min Scan# 2096
Delta R.T. 0.007 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

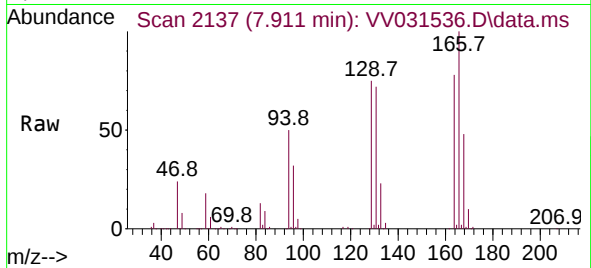
Tgt Ion: 97 Resp: 15238
Ion Ratio Lower Upper
97 100
99 64.3 43.7 81.1
83 91.6 60.9 113.1
85 56.9 39.2 72.8





#46
Tetrachloroethene
Concen: 71.092 ug/L
RT: 7.911 min Scan# 2137
Delta R.T. 0.000 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

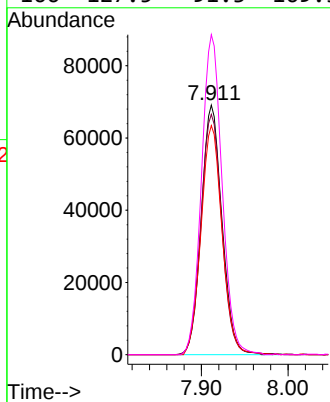
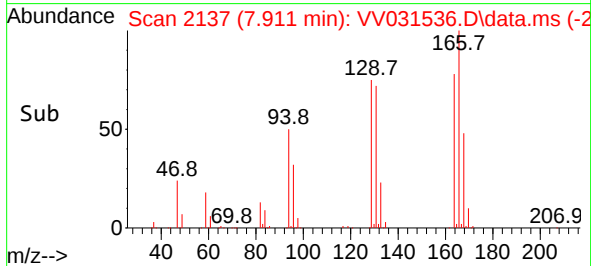
Instrument :
MSVOA_V
ClientSampleId :
EXYT4



Tgt Ion:164 Resp: 11470
Ion Ratio Lower Upper
164 100
129 93.5 68.4 127.0
131 91.2 67.6 125.6
166 127.5 91.3 169.5

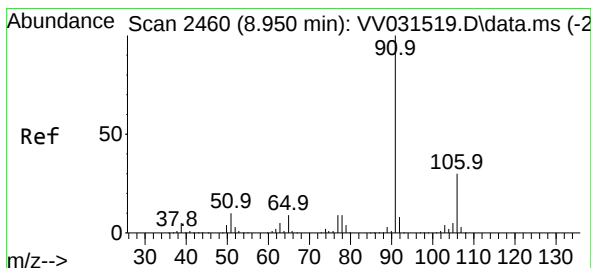
Manual Integrations
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Reviewed By :John
Carlone



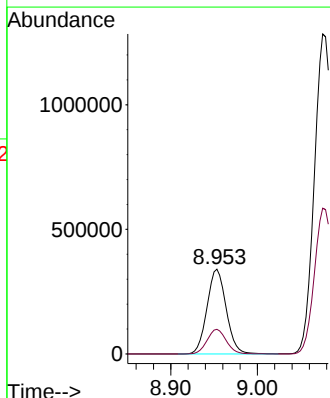
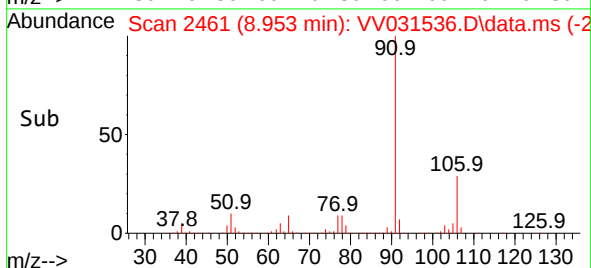
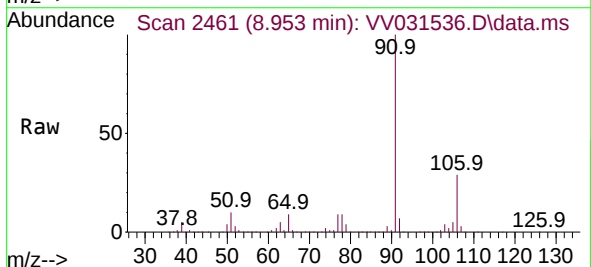
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Supervised By :Mahesh
Dadoda

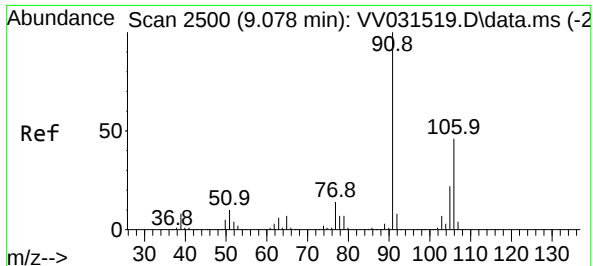
06/16/2023



#52
Ethylbenzene
Concen: 58.844 ug/L
RT: 8.953 min Scan# 2461
Delta R.T. 0.003 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

Tgt Ion: 91 Resp: 523728
Ion Ratio Lower Upper
91 100
106 29.2 20.8 38.6





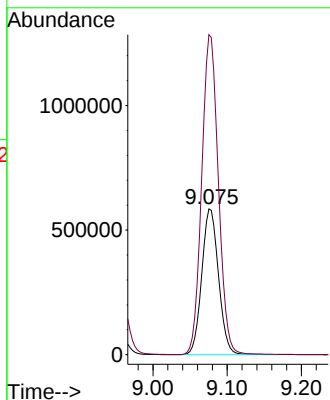
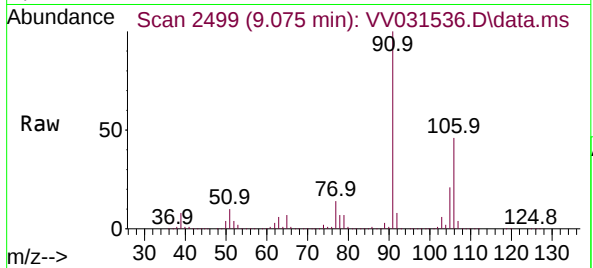
#53
m,p-Xylene
Concen: 280.318 ug/L
RT: 9.075 min Scan# 2499
Delta R.T. -0.003 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

Instrument :
MSVOA_V
ClientSampleId :
EXYT4

Tgt Ion:106 Resp: 913660
Ion Ratio Lower Upper
106 100
91 219.4 149.0 276.6

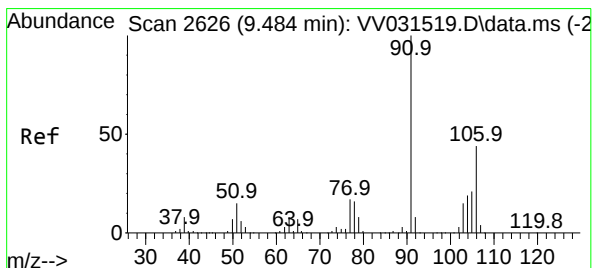
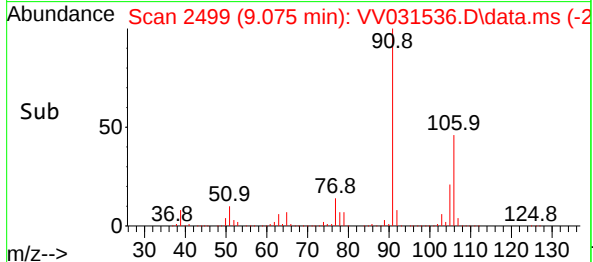
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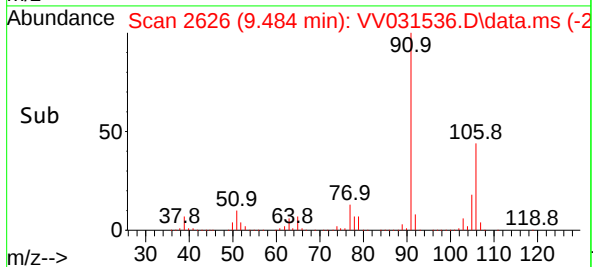
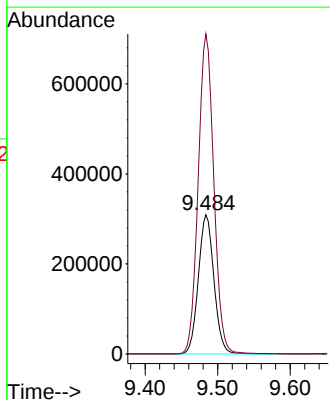
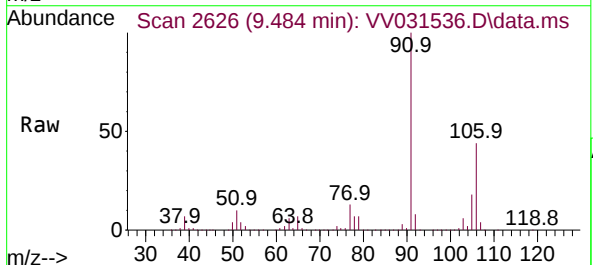
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Supervised By :Mahesh
Dadoda

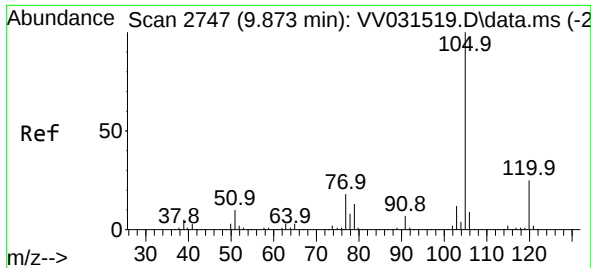
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#54
o-Xylene
Concen: 149.262 ug/L
RT: 9.484 min Scan# 2626
Delta R.T. 0.000 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

Tgt Ion:106 Resp: 461680
Ion Ratio Lower Upper
106 100
91 229.8 161.3 299.7





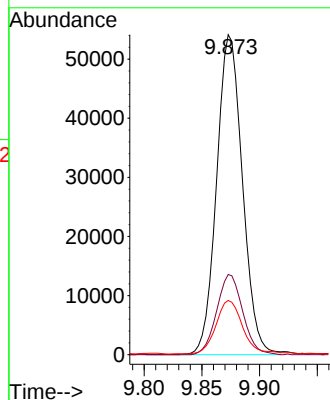
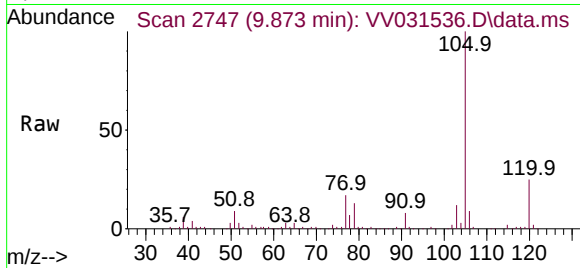
#60
Isopropylbenzene
Concen: 9.329 ug/L
RT: 9.873 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

Instrument :
MSVOA_V
ClientSampleId :
EXYT4

Tgt Ion:105 Resp: 84099
Ion Ratio Lower Upper
105 100
120 25.2 20.2 30.2
77 17.1 13.5 20.3

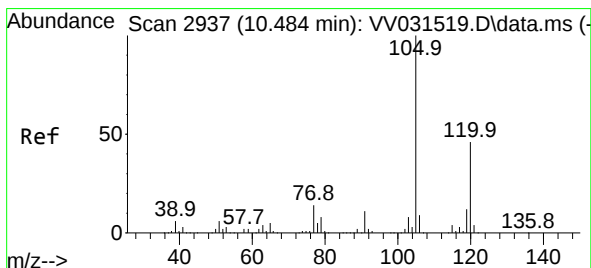
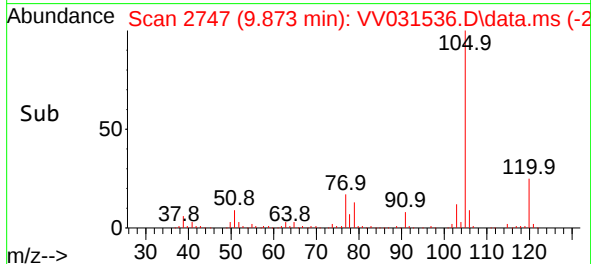
Manual Integrations
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Reviewed By :John
Carlone



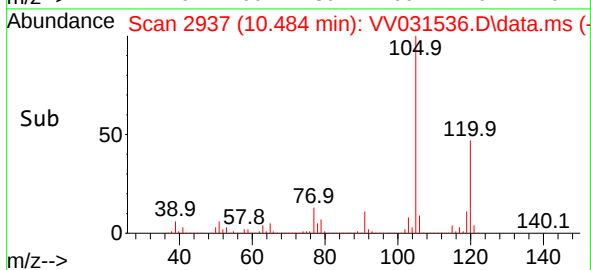
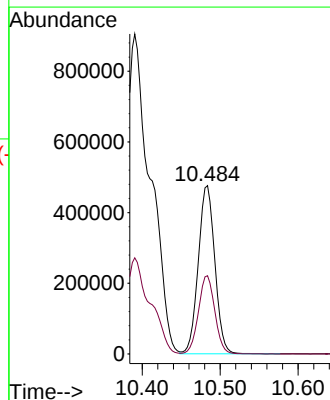
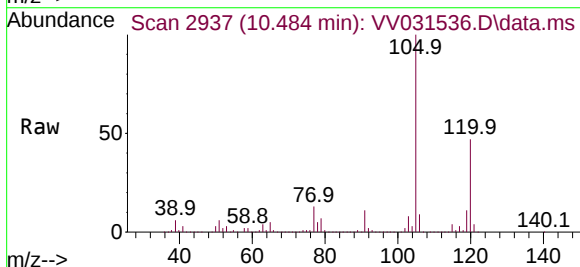
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Supervised By :Mahesh
Dadoda

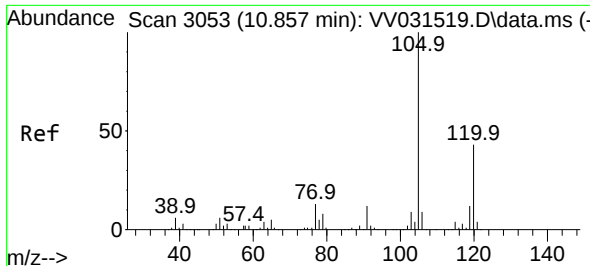
06/16/2023



#62
1,3,5-Trimethylbenzene
Concen: 94.344 ug/L
RT: 10.484 min Scan# 2937
Delta R.T. 0.000 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

Tgt Ion:105 Resp: 702908
Ion Ratio Lower Upper
105 100
120 45.8 36.2 54.2





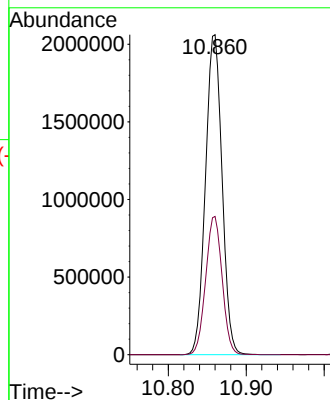
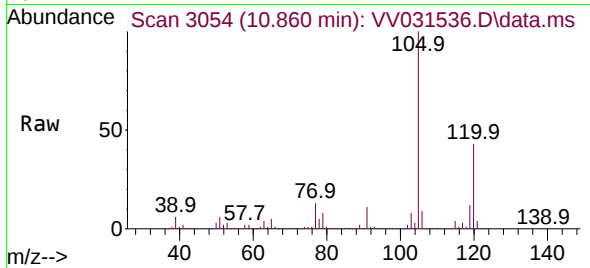
#63
1,2,4-Trimethylbenzene
Concen: 438.418 ug/L
RT: 10.860 min Scan# 3053
Delta R.T. 0.003 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

Instrument :
MSVOA_V
ClientSampleId :
EXYT4

Tgt Ion:105 Resp: 3043520
Ion Ratio Lower Upper
105 100
120 42.8 33.4 50.2

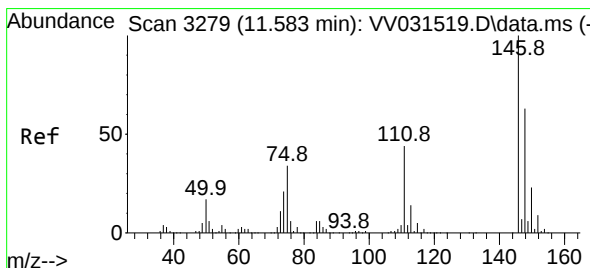
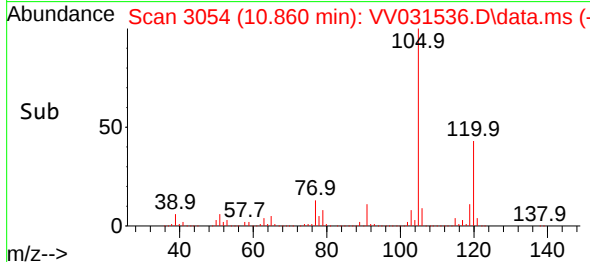
Manual Integrations
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Reviewed By :John
Carlone



06/16/2023
Supervised By :Mahesh
Dadoda

06/16/2023



#67
1,2-Dichlorobenzene
Concen: 1.702 ug/L
RT: 11.587 min Scan# 3280
Delta R.T. 0.003 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

Tgt Ion:146 Resp: 7764
Ion Ratio Lower Upper
146 100
111 52.5 35.9 53.9
148 74.3 52.6 78.8

