

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW102323\
 Data File : VW032565.D
 Acq On : 23 Oct 2023 13:04
 Operator : SY/MD
 Sample : 04950-26
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 A4AA1

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/24/2023
 Supervised By : Mahesh Dadoda 10/26/2023

Quant Time: Oct 24 04:46:43 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR092923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Oct 21 02:44:24 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.539	114	96049	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	109267	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.188	152	51424	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.275	65	30547	3.911	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.200%
7) Chloroethane-d5	1.532	69	31454	4.960	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.200%
11) 1,1-Dichloroethene-d2	2.056	65	13167m	3.997	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	80.000%
20) 2-Butanone-d5	3.828	46	96425	48.796	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.600%
24) Chloroform-d	4.252	84	70334	5.104	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.000%
26) 1,2-Dichloroethane-d4	4.947	65	35074	5.373	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.400%
32) Benzene-d6	4.963	84	116901	3.636	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	72.800%
36) 1,2-Dichloropropane-d6	5.992	67	40885	3.838	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	76.800%
41) Toluene-d8	7.246	98	114991	3.911	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.200%
43) trans-1,3-Dichloroprop...	7.558	79	16270	4.310	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.200%
46) 2-Hexanone-d5	8.030	63	91428	51.478	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.960%
56) 1,1,2,2-Tetrachloroeth...	10.156	84	36592	4.911	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.200%
66) 1,2-Dichlorobenzene-d4	11.564	152	41397	4.338	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.105	85	34131	3.189	ug/L	98
5) Vinyl chloride	1.281	62	43603	4.237	ug/L	100
8) Chloroethane	1.548	64	96684	15.605	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.066	101	83925	11.223	ug/L	98
12) 1,1-Dichloroethene	2.069	96	17428	2.474	ug/L	86
13) Acetone	2.153	43	379547	249.202	ug/L	95
15) Methyl Acetate	2.388	43	43649	12.730	ug/L	94
18) trans-1,2-Dichloroethene	2.696	96	23549	2.919	ug/L	96
19) 1,1-Dichloroethane	3.114	63	31773	2.093	ug/L	97
22) cis-1,2-Dichloroethene	3.818	96	34069	3.922	ug/L	98
23) Bromochloromethane	4.153	128	19602	5.363	ug/L	97
25) Chloroform	4.278	83	123597	8.299	ug/L	100
27) 1,2-Dichloroethane	5.053	62	19596	2.227	ug/L	97
29) 1,1,1-Trichloroethane	4.516	97	27513	1.852	ug/L	97
31) Carbon tetrachloride	4.735	117	35734	2.843	ug/L	97
34) Trichloroethene	5.838	95	18188	1.732	ug/L	97
39) cis-1,3-Dichloropropene	6.956	75	56905	3.887	ug/L	99
40) 4-Methyl-2-pentanone	7.162	43	362442	55.668	ug/L	97
44) trans-1,3-Dichloropropene	7.587	75	24241	2.015	ug/L	100

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 Quant Title : TRACE VOA SFAM1.0
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

45) 1,1,2-Trichloroethane	7.773	97	13780	1.899	ug/L	99
47) Tetrachloroethene	7.905	164	22616	2.840	ug/L	98
50) 1,2-Dibromoethane	8.288	107	30836	4.492	ug/L #	98
51) Chlorobenzene	8.815	112	144134	5.459	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.181	83	13069	1.637	ug/L	98
59) Bromoform	9.670	173	10901	2.915	ug/L	96
63) 1,2,4-Trimethylbenzene	10.853	105	125101	3.858	ug/L	100
64) 1,3-Dichlorobenzene	11.120	146	54717	2.866	ug/L	98
65) 1,4-Dichlorobenzene	11.214	146	35985	1.879	ug/L	98
70) 1,2,4-trichlorobenzene	13.201	180	49305	3.976	ug/L	100
72) 1,2,3-Trichlorobenzene	13.683	180	27117	2.538	ug/L	99

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

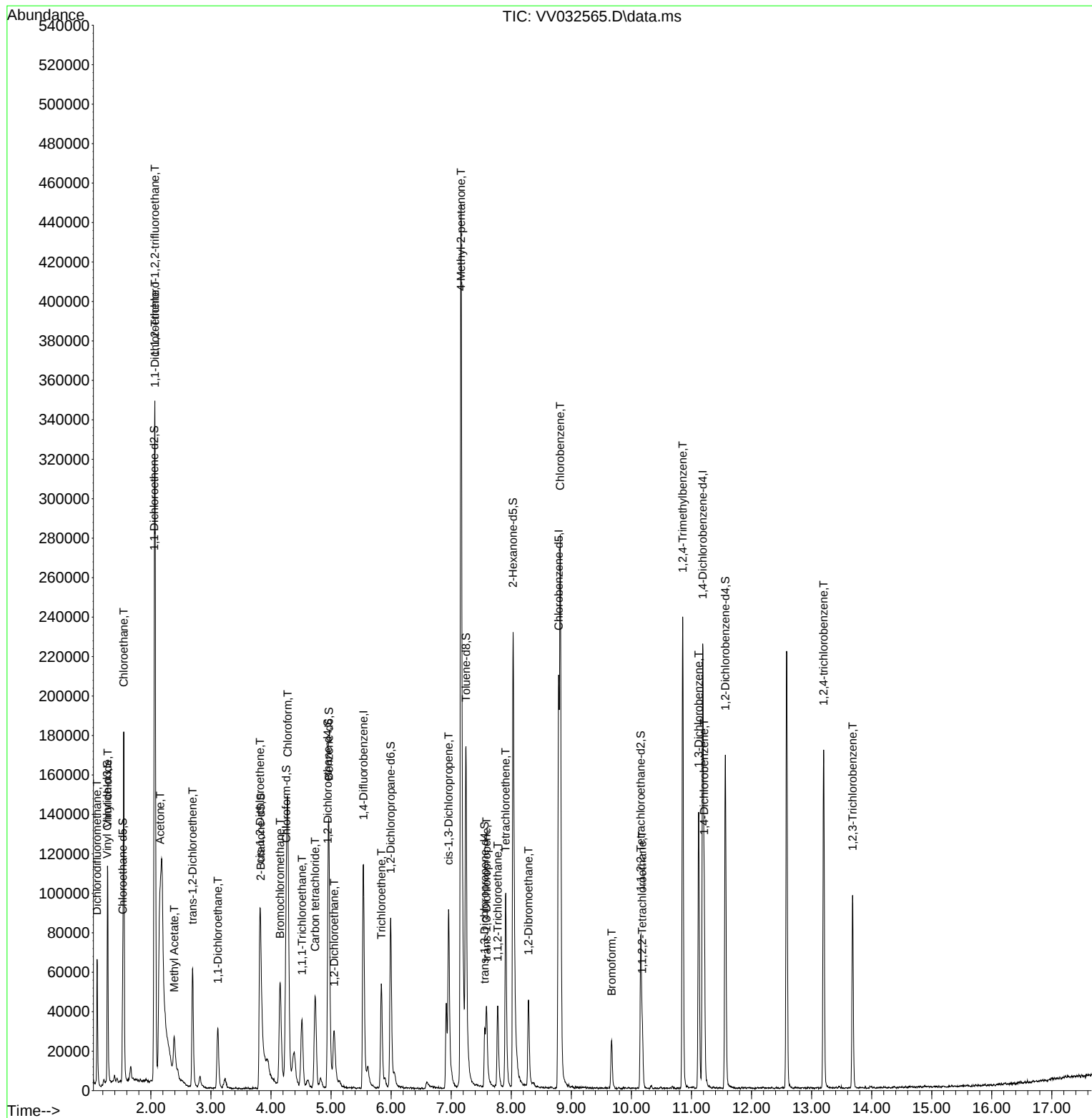
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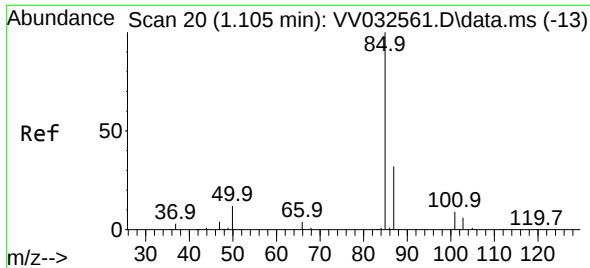
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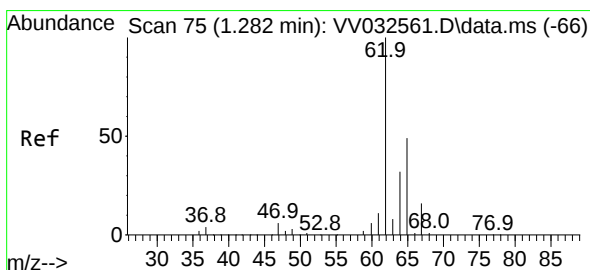
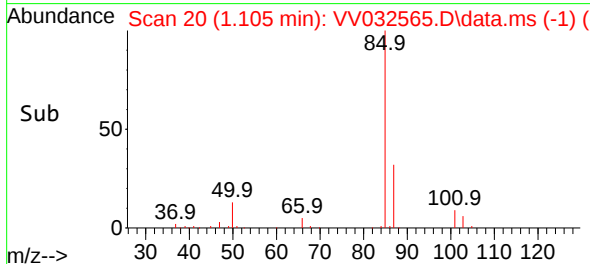
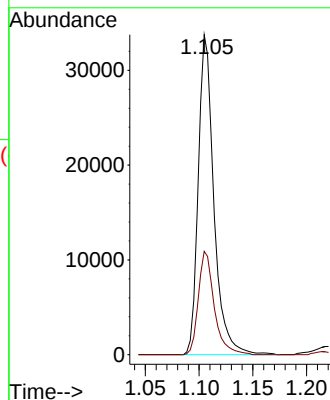
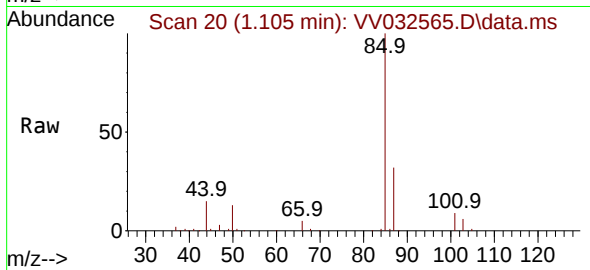
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Dichlorodifluoromethane
Concen: 3.189 ug/L
RT: 1.105 min Scan# 20
Delta R.T. 0.000 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

Instrument :
MSVOA_V
ClientSampleId :
A4AA1

Tgt Ion: 85 Resp: 3413
Ion Ratio Lower Upper
85 100
87 32.9 25.5 38.3

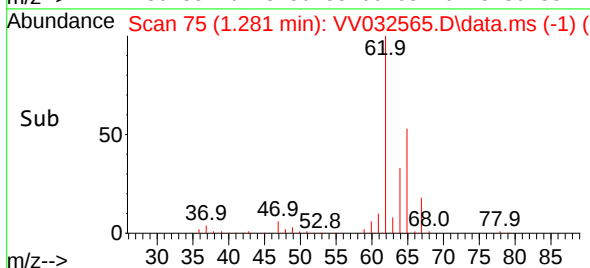
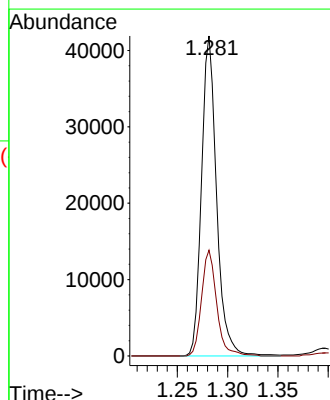
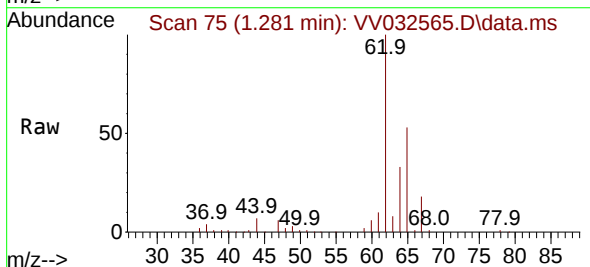
Manual Integrations
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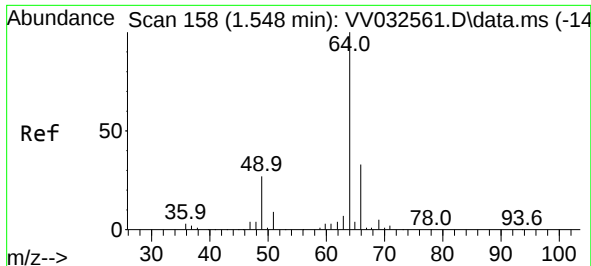
Reviewed By :John Carlone 10/24/2023
Supervised By :Mahesh Dadoda 10/26/2023



#5
Vinyl chloride
Concen: 4.237 ug/L
RT: 1.281 min Scan# 75
Delta R.T. 0.000 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

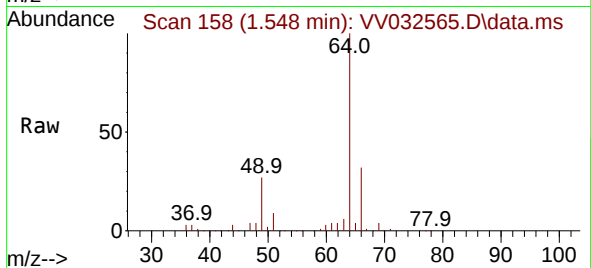
Tgt Ion: 62 Resp: 43603
Ion Ratio Lower Upper
62 100
64 33.1 23.1 42.9





#8
Chloroethane
Concen: 15.605 ug/L
RT: 1.548 min Scan# 11
Delta R.T. -0.003 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

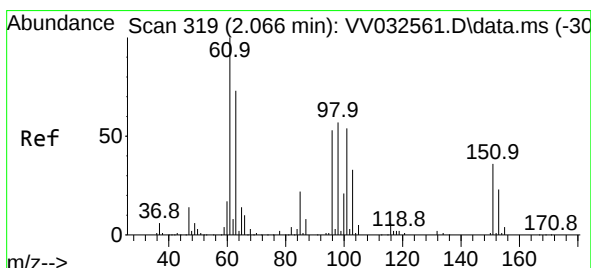
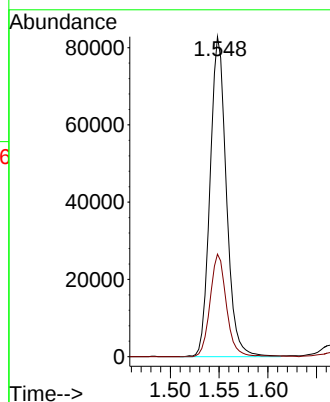
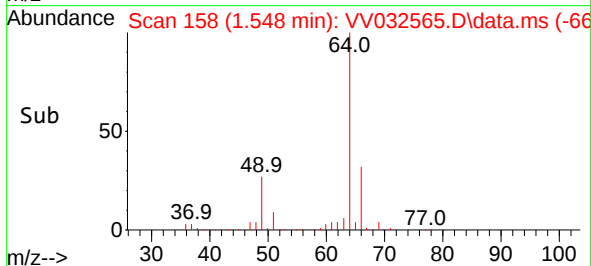
Instrument :
MSVOA_V
ClientSampleId :
A4AA1



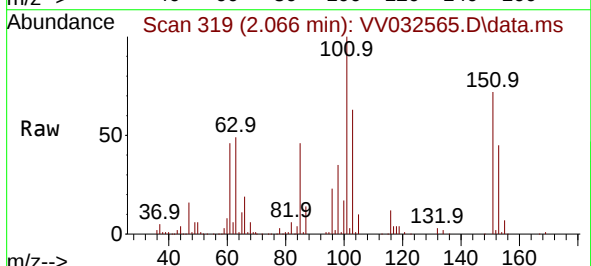
Tgt Ion: 64 Resp: 96684
Ion Ratio Lower Upper
64 100
66 32.1 22.6 42.0

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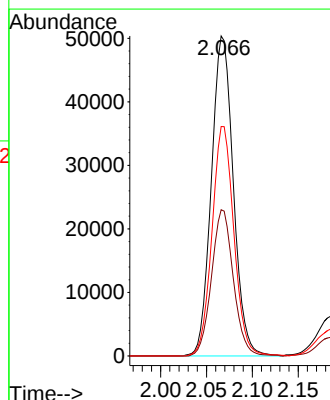
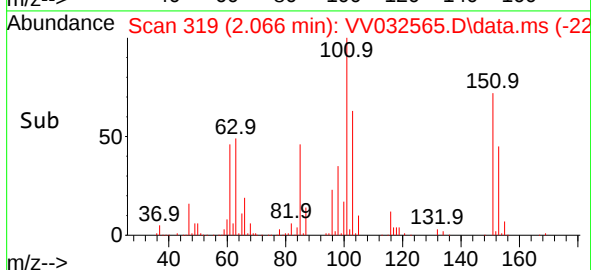
Reviewed By :John Carlone 10/24/2023
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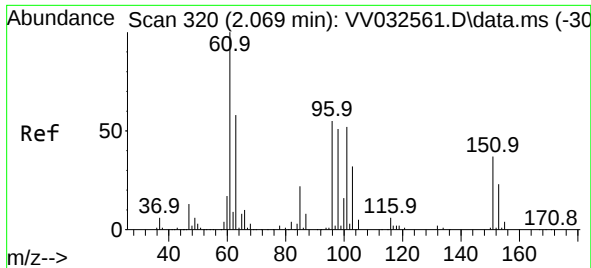


#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 11.223 ug/L
RT: 2.066 min Scan# 319
Delta R.T. -0.003 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04



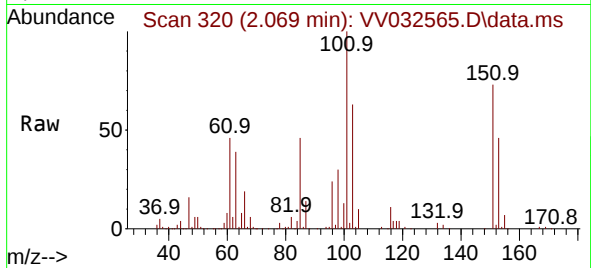
Tgt Ion:101 Resp: 83925
Ion Ratio Lower Upper
101 100
85 45.4 35.0 52.6
151 71.7 56.6 84.8





#12
1,1-Dichloroethene
Concen: 2.474 ug/L
RT: 2.069 min Scan# 320
Delta R.T. 0.000 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

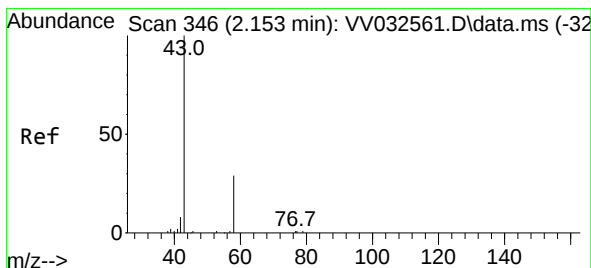
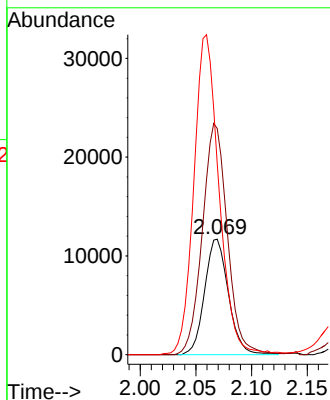
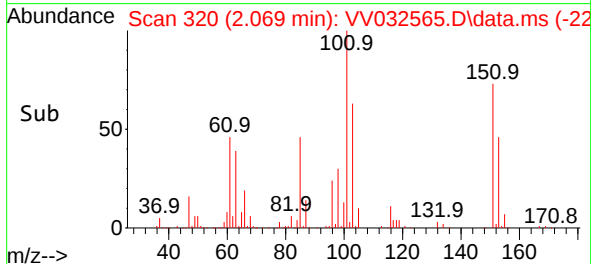
Instrument :
MSVOA_V
ClientSampleId :
A4AA1



Tgt Ion: 96 Resp: 17428
Ion Ratio Lower Upper
96 100
61 195.7 127.3 236.3
63 165.2 98.3 182.7

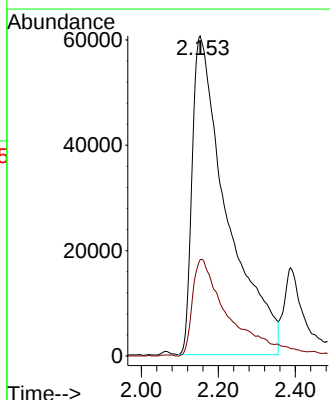
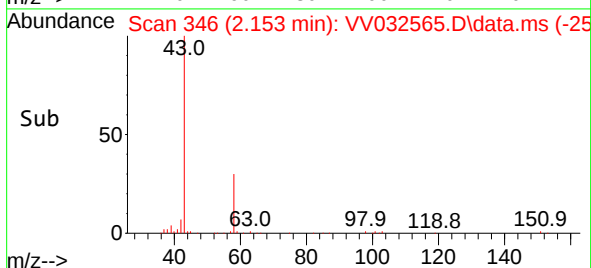
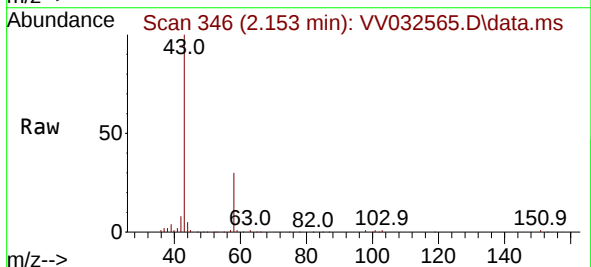
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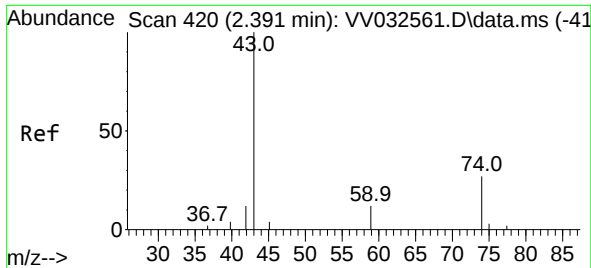
Reviewed By :John Carlone 10/24/2023
Supervised By :Mahesh Dadoda 10/26/2023



#13
Acetone
Concen: 249.202 ug/L
RT: 2.153 min Scan# 346
Delta R.T. 0.010 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

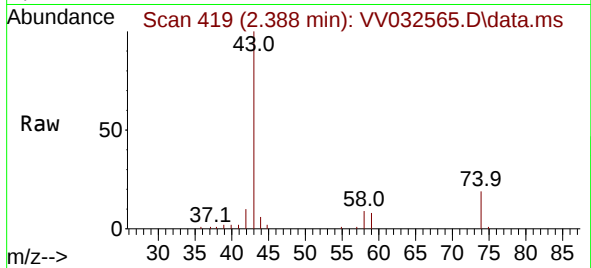
Tgt Ion: 43 Resp: 379547
Ion Ratio Lower Upper
43 100
58 30.0 0.0 66.0





#15
Methyl Acetate
Concen: 12.730 ug/L
RT: 2.388 min Scan# 419
Delta R.T. 0.000 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

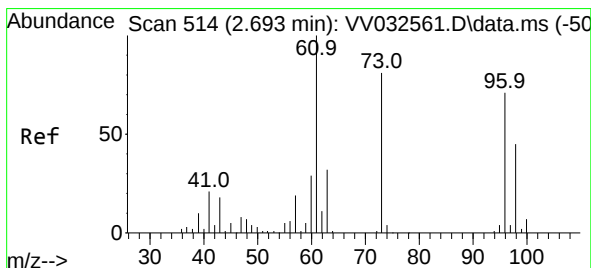
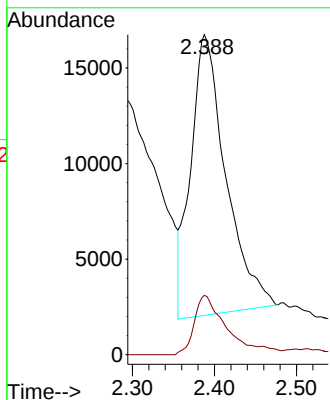
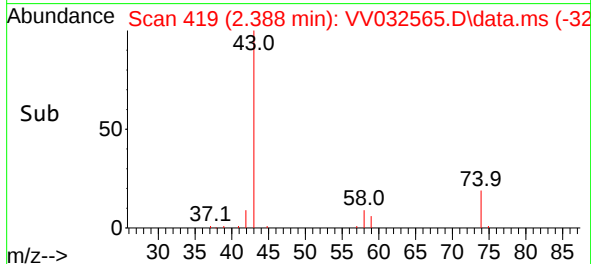
Instrument :
MSVOA_V
ClientSampleId :
A4AA1



Tgt Ion: 43 Resp: 43649
Ion Ratio Lower Upper
43 100
74 19.8 18.0 27.0

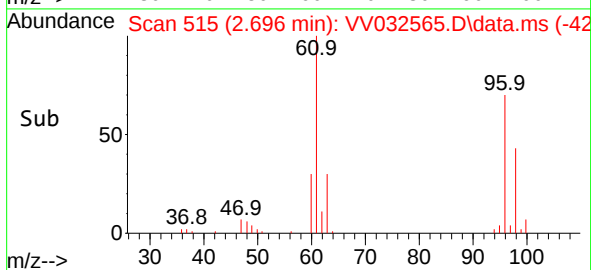
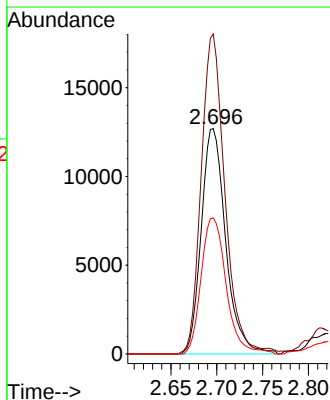
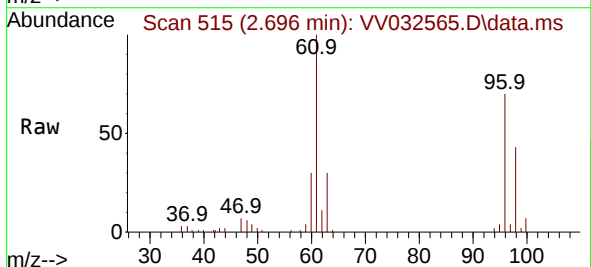
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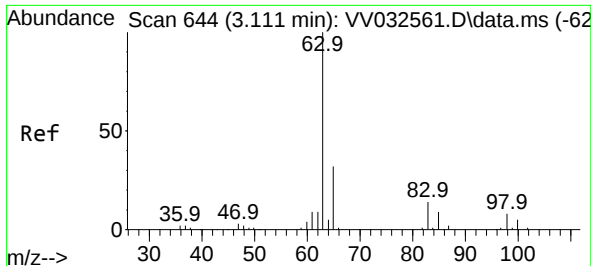
Reviewed By :John Carlone 10/24/2023
Supervised By :Mahesh Dadoda 10/26/2023



#18
trans-1,2-Dichloroethene
Concen: 2.919 ug/L
RT: 2.696 min Scan# 515
Delta R.T. 0.000 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

Tgt Ion: 96 Resp: 23549
Ion Ratio Lower Upper
96 100
61 141.9 96.9 180.1
98 60.4 45.3 84.1





#19

1,1-Dichloroethane

Concen: 2.093 ug/L

RT: 3.114 min Scan# 64

Delta R.T. 0.000 min

Lab File: VV032565.D

Acq: 23 Oct 2023 13:04

Instrument :

MSVOA_V

ClientSampleId :

A4AA1

Tgt Ion: 63 Resp: 3177

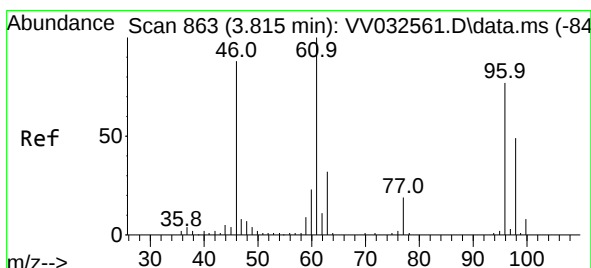
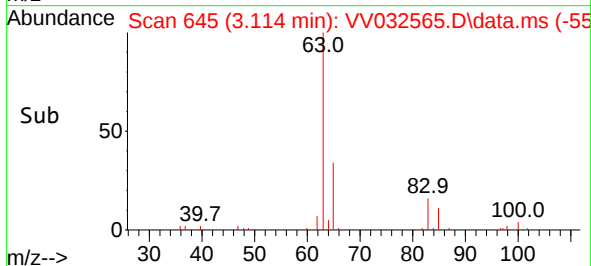
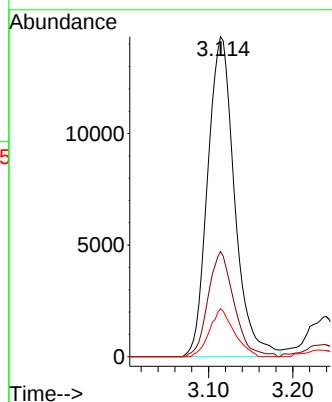
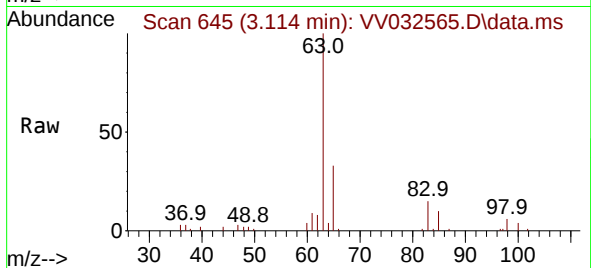
Ion	Ratio	Lower	Upper
63	100		
65	32.8	22.3	41.5
83	15.0	9.0	16.6

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Supervised By :Mahesh Dadoda 10/26/2023



#22

cis-1,2-Dichloroethene

Concen: 3.922 ug/L

RT: 3.818 min Scan# 864

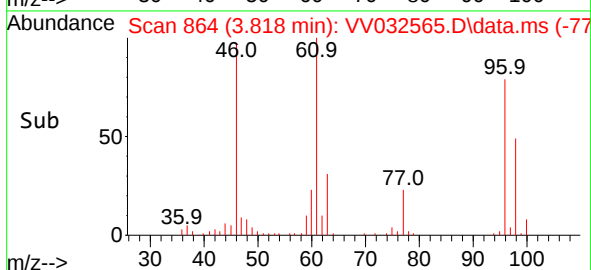
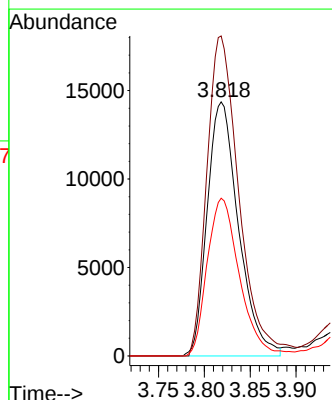
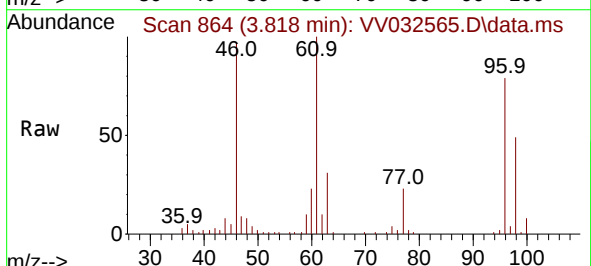
Delta R.T. 0.000 min

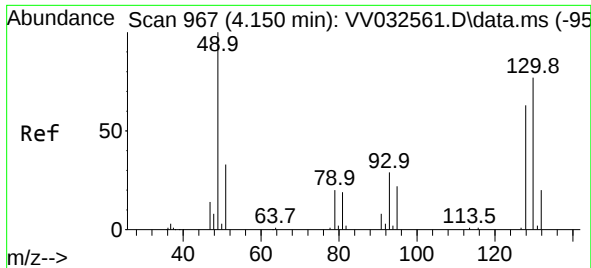
Lab File: VV032565.D

Acq: 23 Oct 2023 13:04

Tgt Ion: 96 Resp: 34069

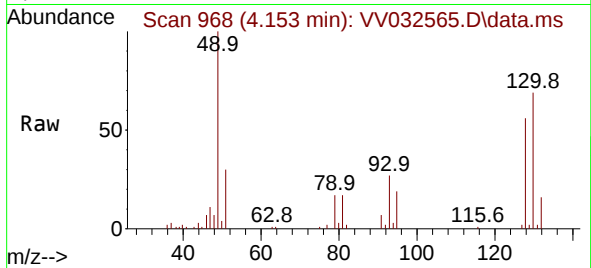
Ion	Ratio	Lower	Upper
96	100		
61	125.9	85.8	159.4
98	62.1	44.0	81.6





#23
Bromochloromethane
Concen: 5.363 ug/L
RT: 4.153 min Scan# 967
Delta R.T. 0.000 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

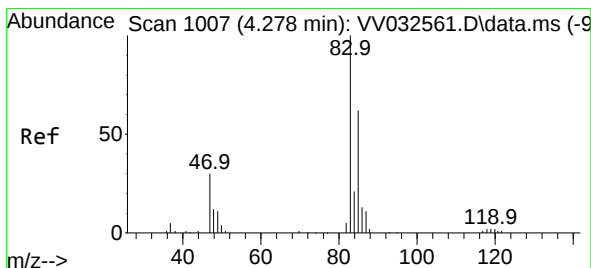
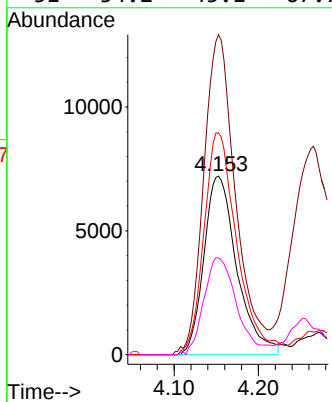
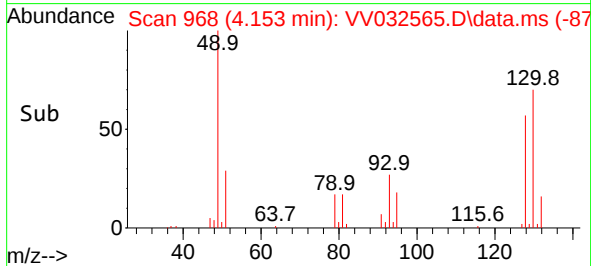
Instrument :
MSVOA_V
ClientSampleId :
A4AA1



Tgt Ion:128 Resp: 1960
Ion Ratio Lower Upper
128 100
49 179.1 121.2 225.0
130 124.2 88.2 163.8
51 54.2 45.1 67.7

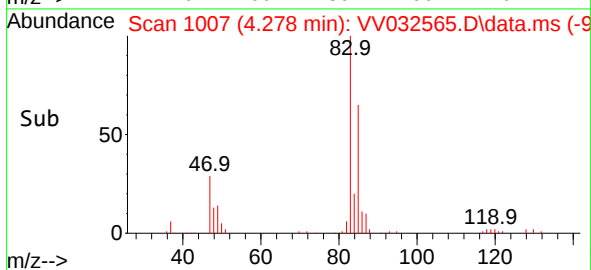
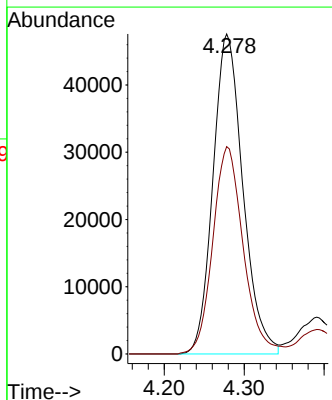
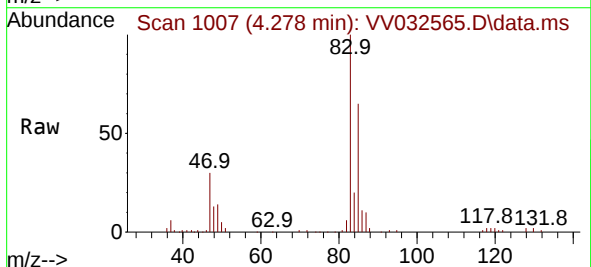
Manual Integrations
APPROVED

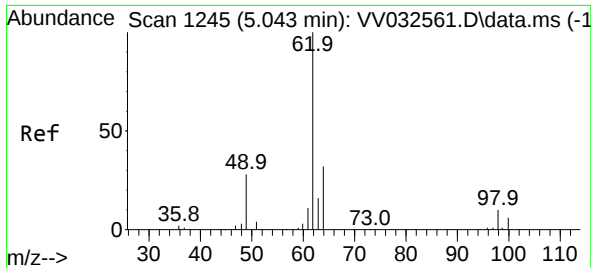
Reviewed By :John Carlone 10/24/2023
Supervised By :Mahesh Dadoda 10/26/2023



#25
Chloroform
Concen: 8.299 ug/L
RT: 4.278 min Scan# 1007
Delta R.T. -0.003 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

Tgt Ion: 83 Resp: 123597
Ion Ratio Lower Upper
83 100
85 64.8 45.4 84.4





#27

1,2-Dichloroethane

Concen: 2.227 ug/L

RT: 5.053 min Scan# 1081

Delta R.T. 0.006 min

Lab File: VV032565.D

Acq: 23 Oct 2023 13:04

Instrument :

MSVOA_V

ClientSampleId :

A4AA1

Tgt Ion: 62 Resp: 19590

Ion Ratio Lower Upper

62 100

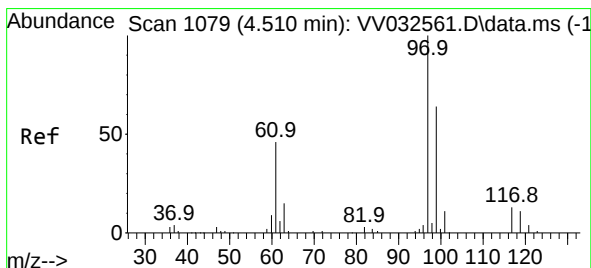
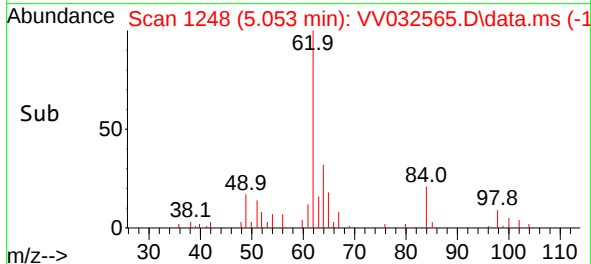
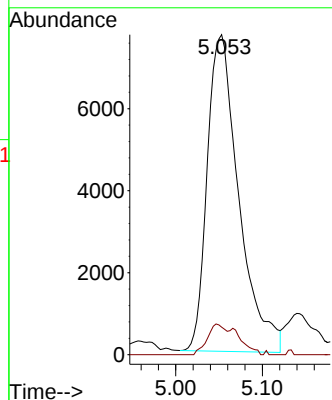
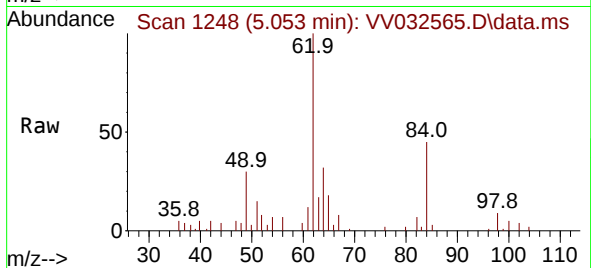
98 8.6 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/24/2023

Supervised By :Mahesh Dadoda 10/26/2023



#29

1,1,1-Trichloroethane

Concen: 1.852 ug/L

RT: 4.516 min Scan# 1081

Delta R.T. 0.000 min

Lab File: VV032565.D

Acq: 23 Oct 2023 13:04

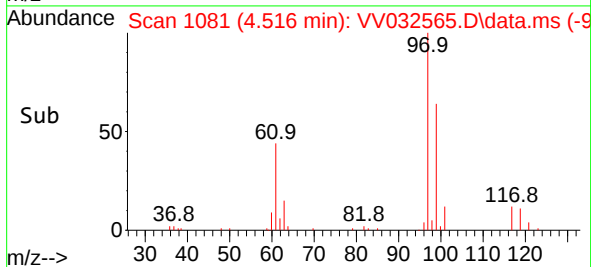
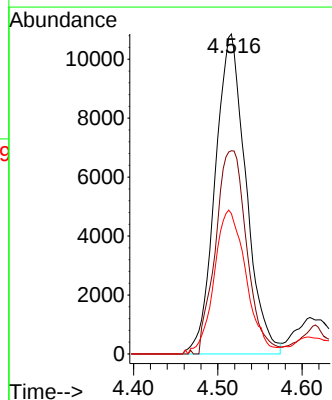
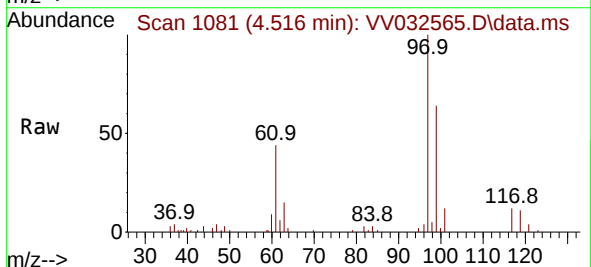
Tgt Ion: 97 Resp: 27513

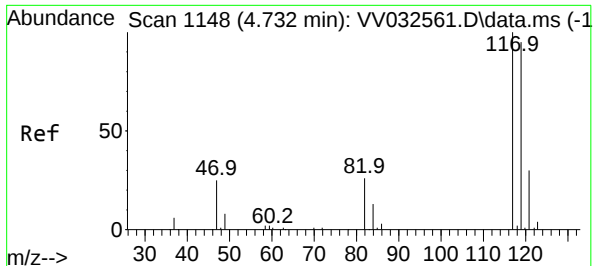
Ion Ratio Lower Upper

97 100

99 64.6 50.1 75.1

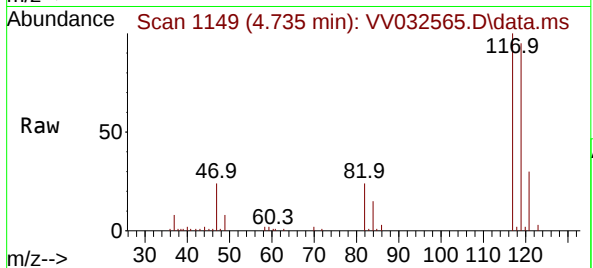
61 46.7 35.1 52.7





#31
Carbon tetrachloride
Concen: 2.843 ug/L
RT: 4.735 min Scan# 1148
Delta R.T. -0.006 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

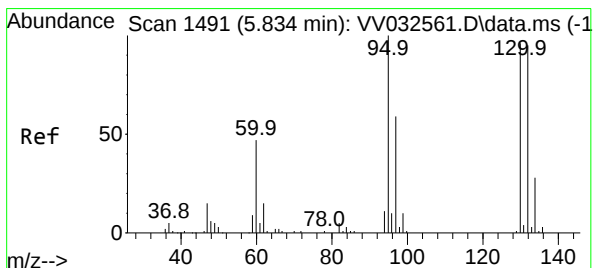
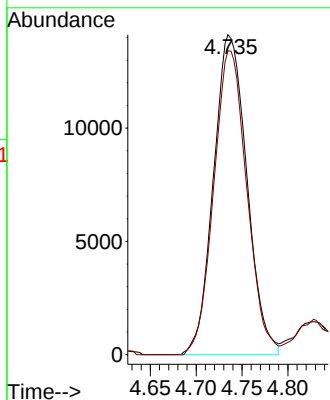
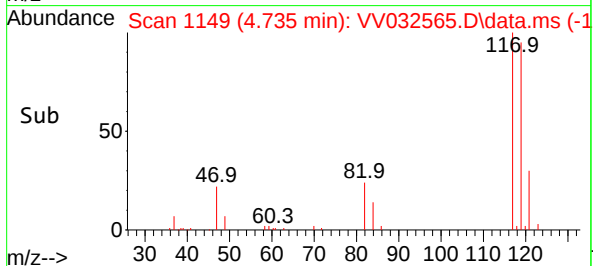
Instrument : MSVOA_V
ClientSampleId : A4AA1



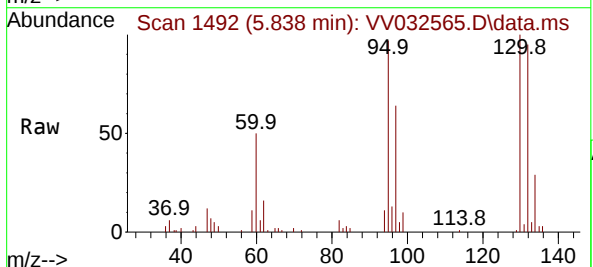
Tgt Ion: 117 Resp: 35734
Ion Ratio Lower Upper
117 100
119 94.0 77.6 116.4

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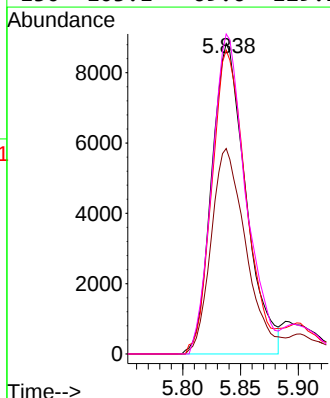
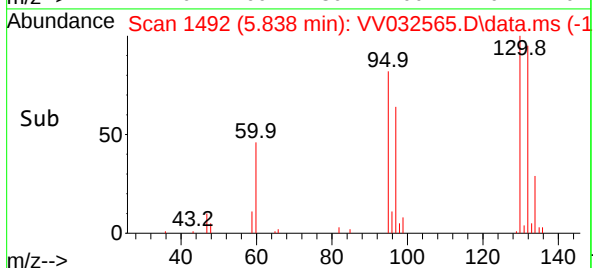
Reviewed By : John Carlone 10/24/2023
Supervised By : Mahesh Dadoda 10/26/2023

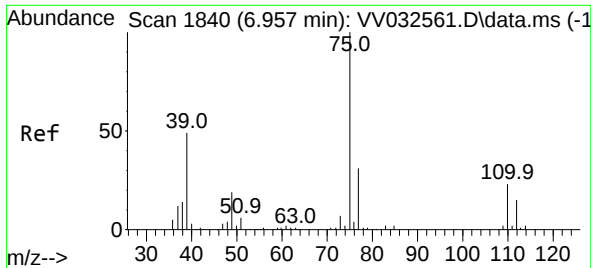


#34
Trichloroethene
Concen: 1.732 ug/L
RT: 5.838 min Scan# 1492
Delta R.T. 0.000 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04



Tgt Ion: 95 Resp: 18188
Ion Ratio Lower Upper
95 100
97 66.2 45.7 84.9
132 97.9 70.3 130.5
130 103.1 69.6 129.2





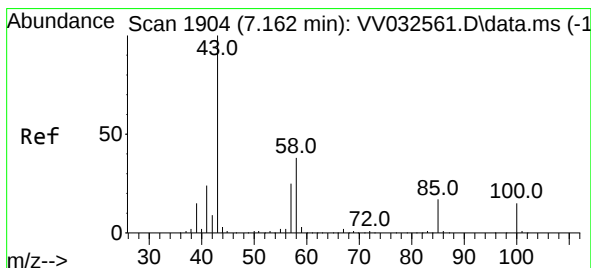
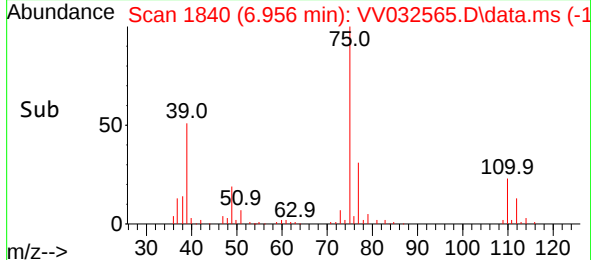
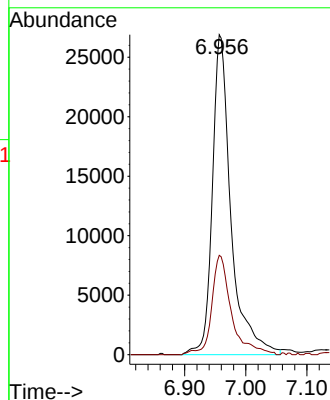
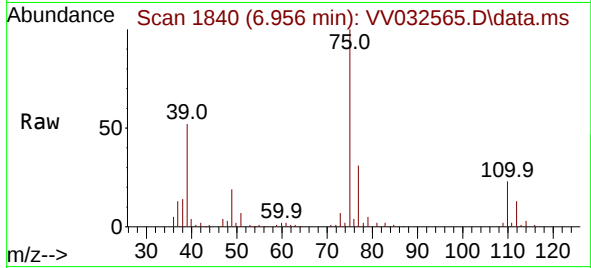
#39
 cis-1,3-Dichloropropene
 Concen: 3.887 ug/L
 RT: 6.956 min Scan# 1840
 Delta R.T. -0.003 min
 Lab File: VV032565.D
 Acq: 23 Oct 2023 13:04

Instrument :
 MSVOA_V
 ClientSampleId :
 A4AA1

Tgt Ion: 75 Resp: 5690
 Ion Ratio Lower Upper
 75 100
 77 31.0 22.2 41.2

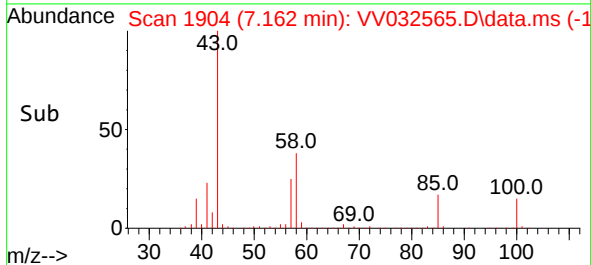
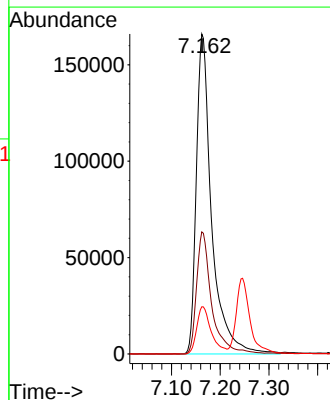
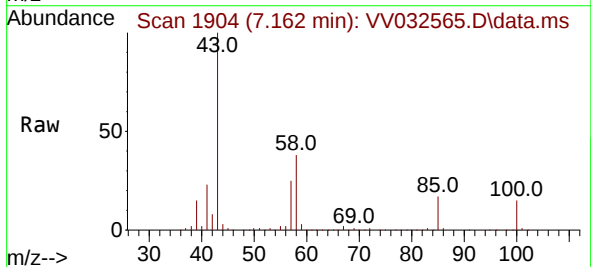
Manual Integrations
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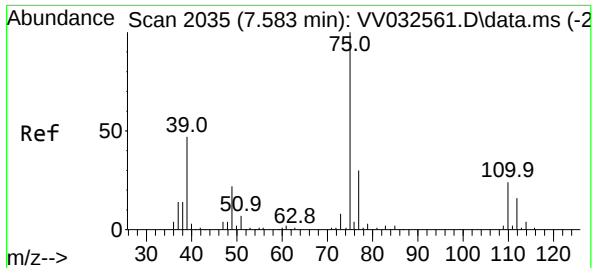
Reviewed By :John Carlone 10/24/2023
 Supervised By :Mahesh Dadoda 10/26/2023



#40
 4-Methyl-2-pentanone
 Concen: 55.668 ug/L
 RT: 7.162 min Scan# 1904
 Delta R.T. 0.000 min
 Lab File: VV032565.D
 Acq: 23 Oct 2023 13:04

Tgt Ion: 43 Resp: 362442
 Ion Ratio Lower Upper
 43 100
 58 37.6 31.9 47.9
 100 14.1 11.3 16.9





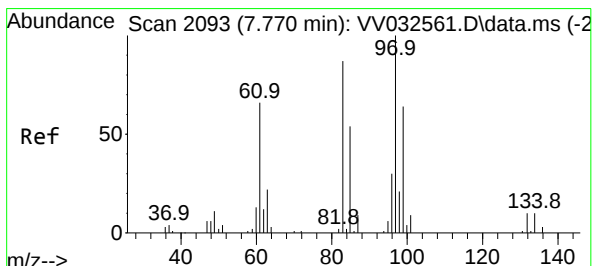
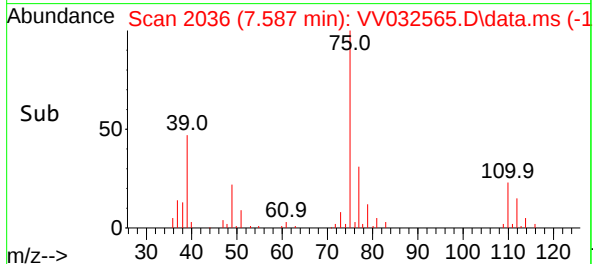
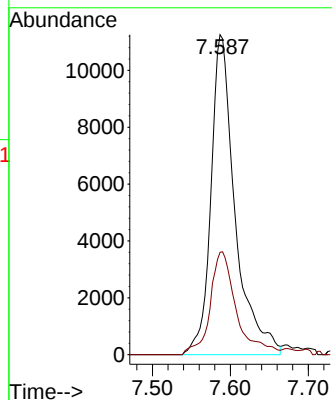
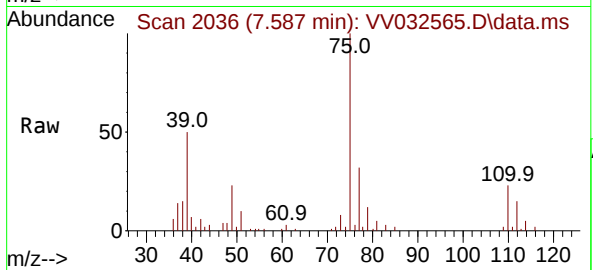
#44
trans-1,3-Dichloropropene
Concen: 2.015 ug/L
RT: 7.587 min Scan# 2035
Delta R.T. 0.000 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

Instrument :
MSVOA_V
ClientSampleId :
A4AA1

Tgt Ion: 75 Resp: 2424
Ion Ratio Lower Upper
75 100
77 32.0 22.5 41.7

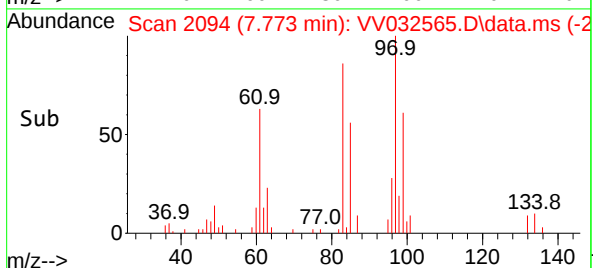
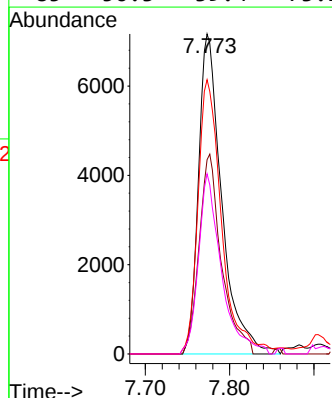
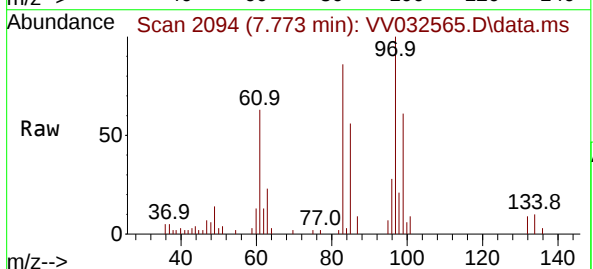
Manual Integrations
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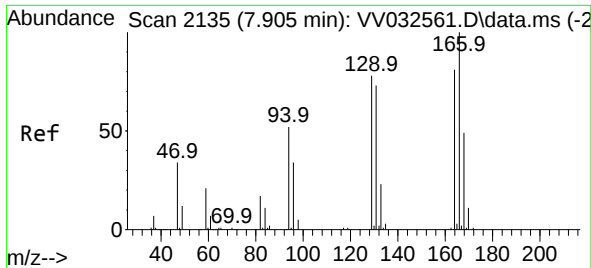
Reviewed By :John Carlone 10/24/2023
Supervised By :Mahesh Dadoda 10/26/2023



#45
1,1,2-Trichloroethane
Concen: 1.899 ug/L
RT: 7.773 min Scan# 2094
Delta R.T. 0.000 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

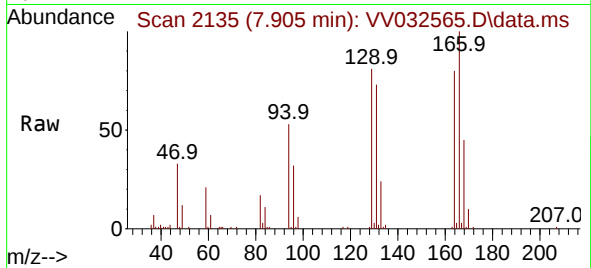
Tgt Ion: 97 Resp: 13780
Ion Ratio Lower Upper
97 100
99 60.7 42.8 79.4
83 85.7 60.9 113.1
85 56.3 39.4 73.2





#47
Tetrachloroethene
Concen: 2.840 ug/L
RT: 7.905 min Scan# 2135
Delta R.T. -0.003 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

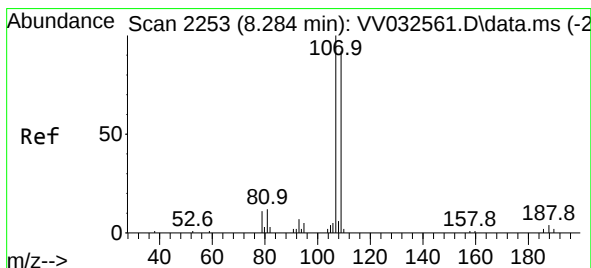
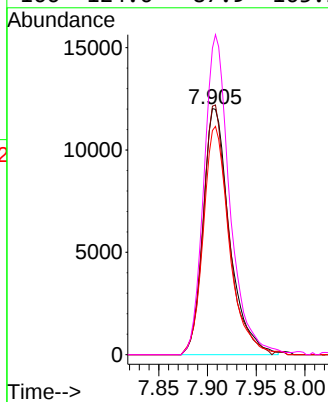
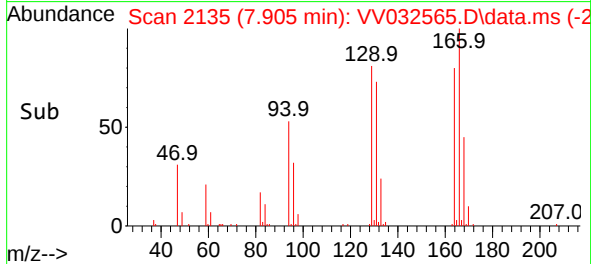
Instrument :
MSVOA_V
ClientSampleId :
A4AA1



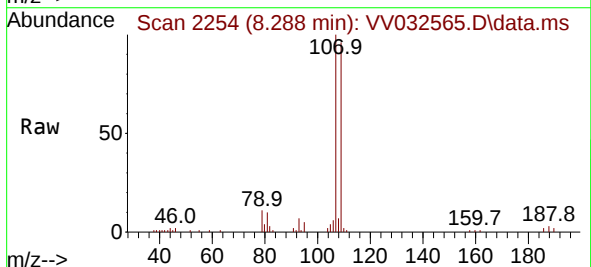
Tgt Ion:164 Resp: 22610
Ion Ratio Lower Upper
164 100
129 101.0 66.4 123.4
131 91.1 63.7 118.3
166 124.6 87.9 163.3

Manual Integrations
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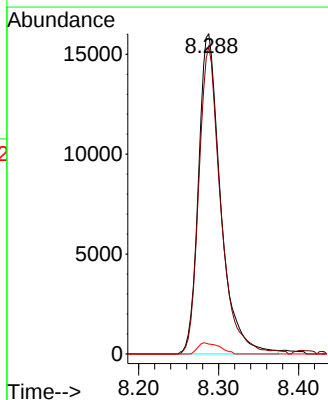
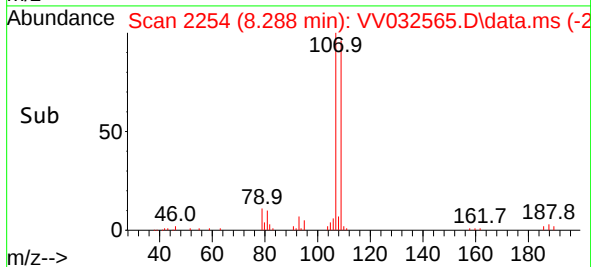
Reviewed By :John Carlone 10/24/2023
Supervised By :Mahesh Dadoda 10/26/2023

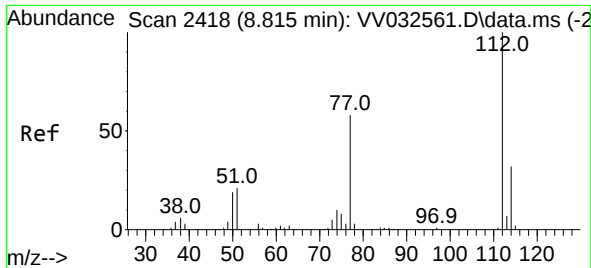


#50
1,2-Dibromoethane
Concen: 4.492 ug/L
RT: 8.288 min Scan# 2254
Delta R.T. 0.000 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04



Tgt Ion:107 Resp: 30836
Ion Ratio Lower Upper
107 100
109 96.1 68.4 127.0
188 3.1 3.2 4.8





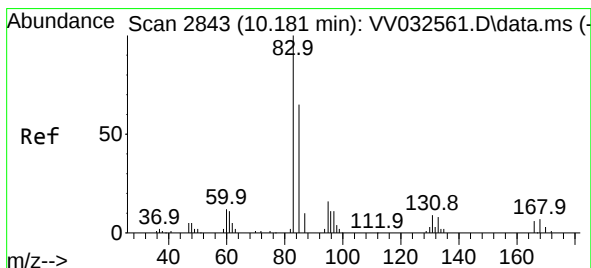
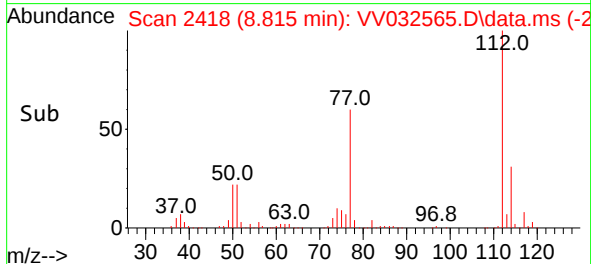
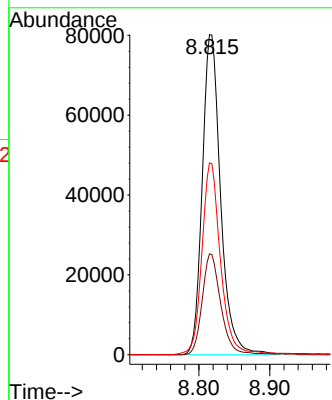
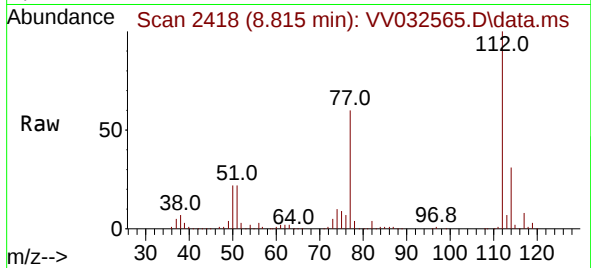
#51
Chlorobenzene
Concen: 5.459 ug/L
RT: 8.815 min Scan# 2418
Delta R.T. -0.003 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

Instrument : MSVOA_V
ClientSampleId : A4AA1

Tgt Ion: 112 Resp: 144134
Ion Ratio Lower Upper
112 100
114 31.5 22.1 41.1
77 60.0 46.1 69.1

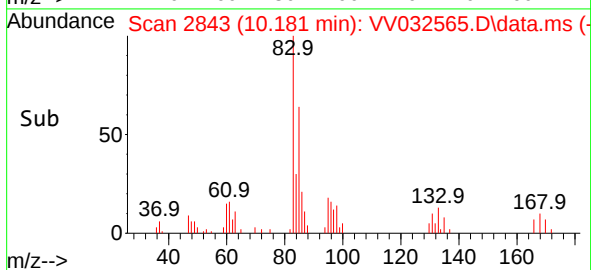
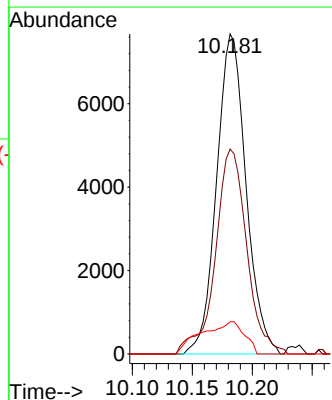
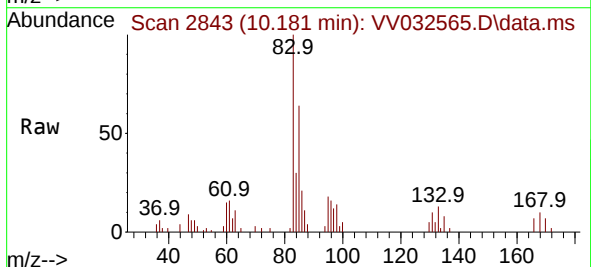
Manual Integrations
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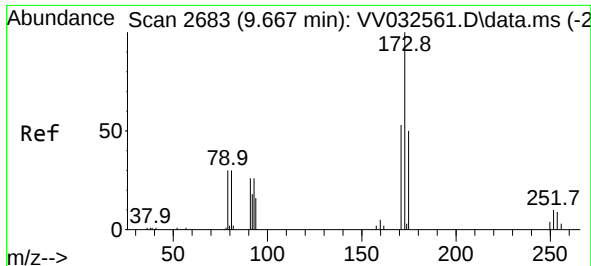
Reviewed By :John Carlone 10/24/2023
Supervised By :Mahesh Dadoda 10/26/2023



#57
1,1,2,2-Tetrachloroethane
Concen: 1.637 ug/L
RT: 10.181 min Scan# 2843
Delta R.T. 0.000 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

Tgt Ion: 83 Resp: 13069
Ion Ratio Lower Upper
83 100
85 64.0 43.6 81.0
131 10.1 7.0 10.6





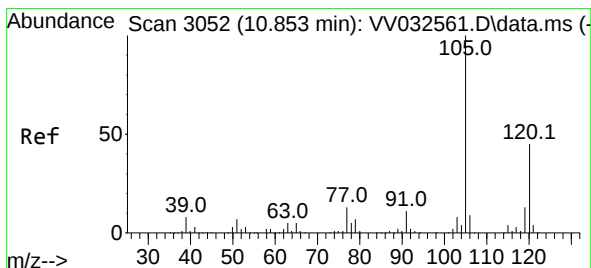
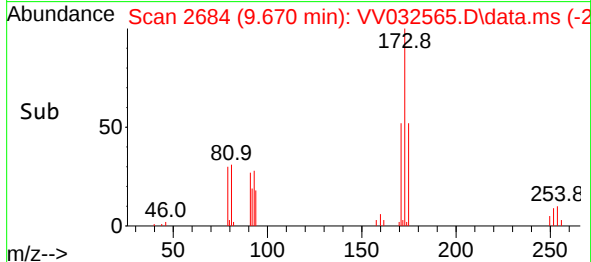
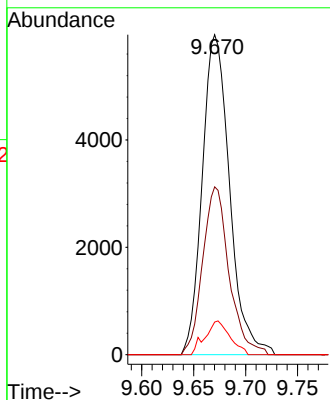
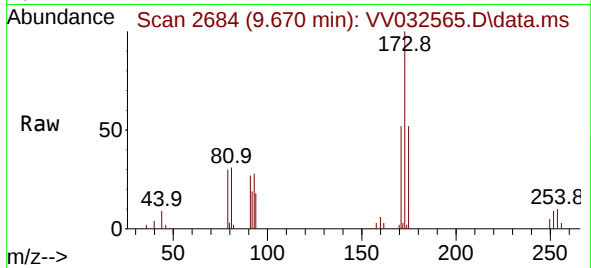
#59
Bromoform
Concen: 2.915 ug/L
RT: 9.670 min Scan# 20
Delta R.T. 0.003 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

Instrument :
MSVOA_V
ClientSampleId :
A4AA1

Tgt Ion:173 Resp: 1090
Ion Ratio Lower Upper
173 100
175 50.6 38.2 57.2
254 9.6 7.0 10.4

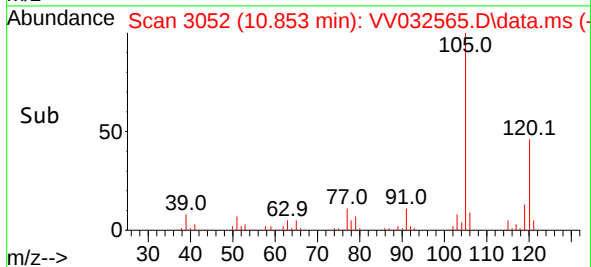
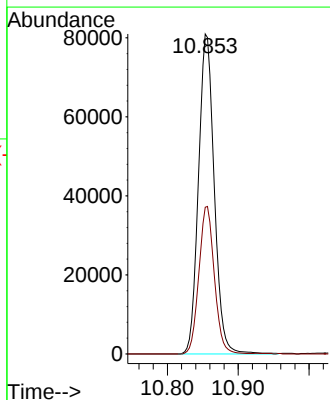
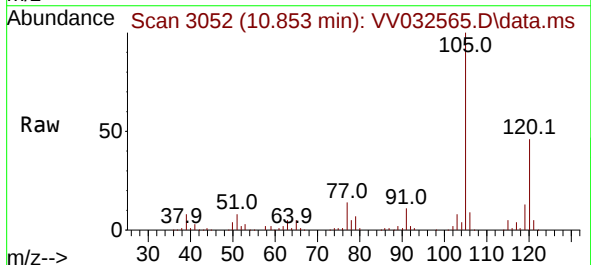
Manual Integrations
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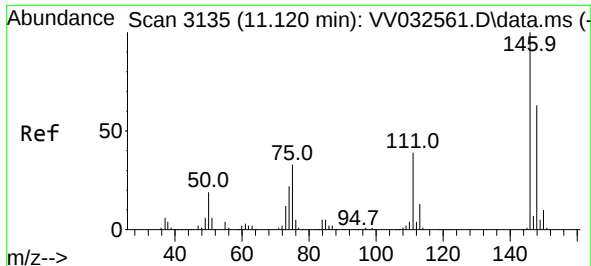
Reviewed By :John Carlone 10/24/2023
Supervised By :Mahesh Dadoda 10/26/2023



#63
1,2,4-Trimethylbenzene
Concen: 3.858 ug/L
RT: 10.853 min Scan# 3052
Delta R.T. 0.000 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

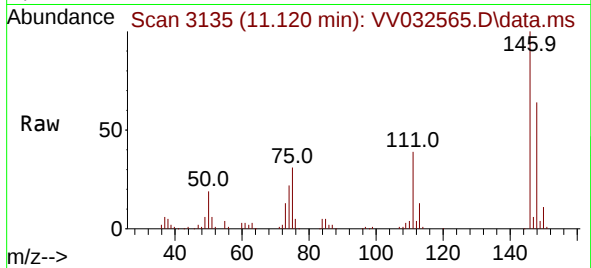
Tgt Ion:105 Resp: 125101
Ion Ratio Lower Upper
105 100
120 45.2 36.2 54.4





#64
1,3-Dichlorobenzene
Concen: 2.866 ug/L
RT: 11.120 min Scan# 3135
Delta R.T. 0.000 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

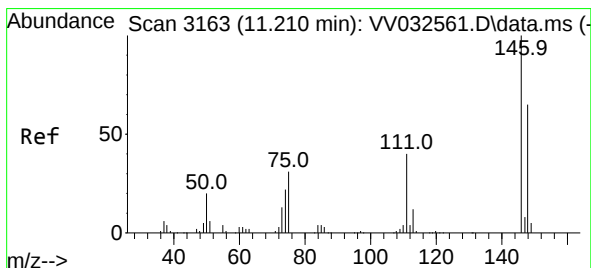
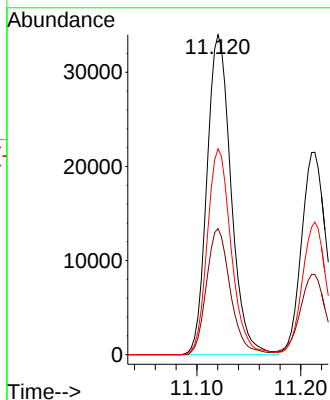
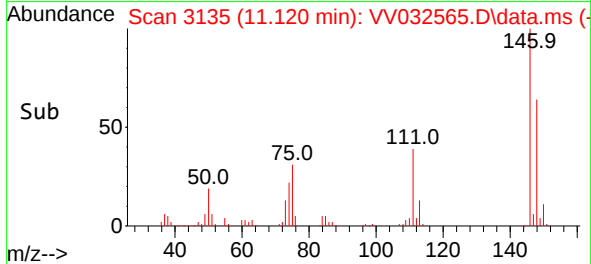
Instrument :
MSVOA_V
ClientSampleId :
A4AA1



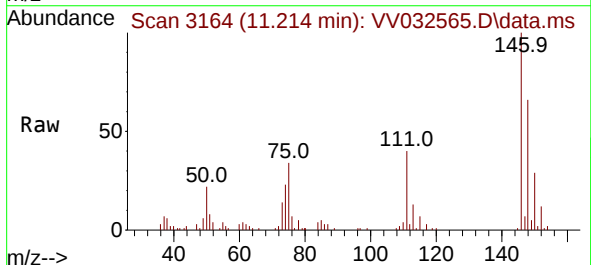
Tgt Ion:146 Resp: 5471
Ion Ratio Lower Upper
146 100
111 39.4 27.8 51.6
148 64.4 43.7 81.1

Manual Integrations
APPROVED

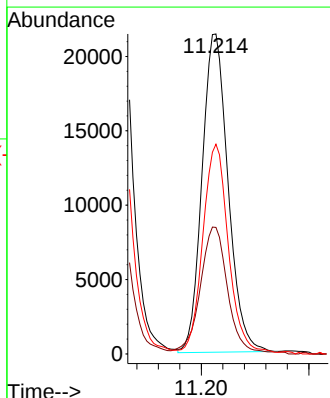
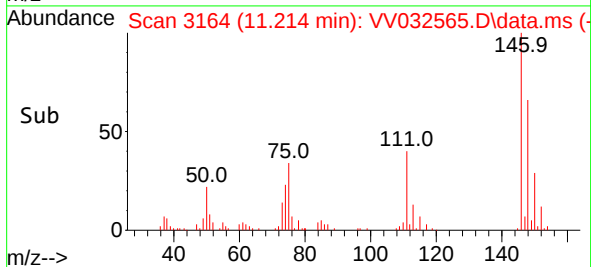
Reviewed By :John Carlone 10/24/2023
Supervised By :Mahesh Dadoda 10/26/2023

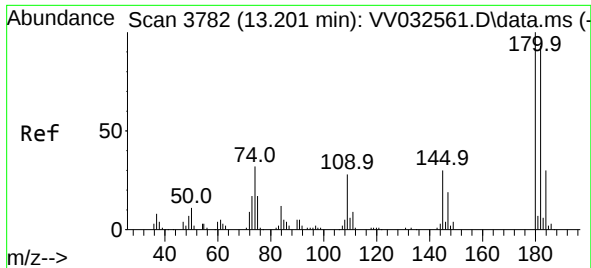


#65
1,4-Dichlorobenzene
Concen: 1.879 ug/L
RT: 11.214 min Scan# 3164
Delta R.T. 0.000 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04



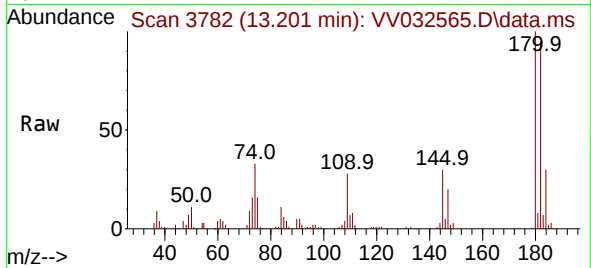
Tgt Ion:146 Resp: 35985
Ion Ratio Lower Upper
146 100
111 39.6 26.9 49.9
148 65.5 44.8 83.2





#70
1,2,4-trichlorobenzene
Concen: 3.976 ug/L
RT: 13.201 min Scan# 31
Delta R.T. 0.000 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04

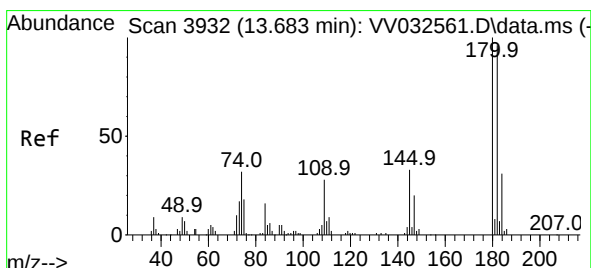
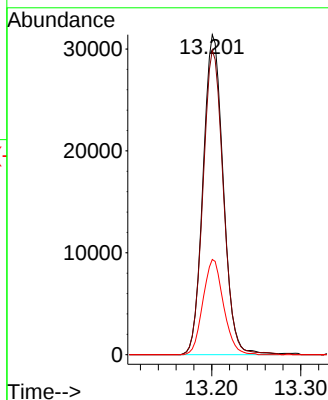
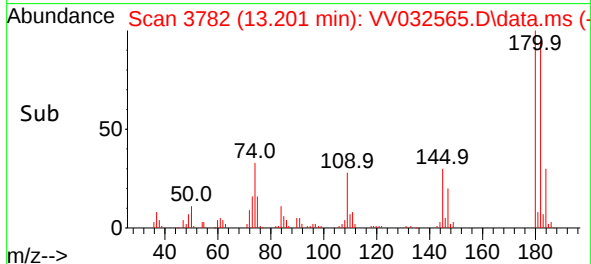
Instrument :
MSVOA_V
ClientSampleId :
A4AA1



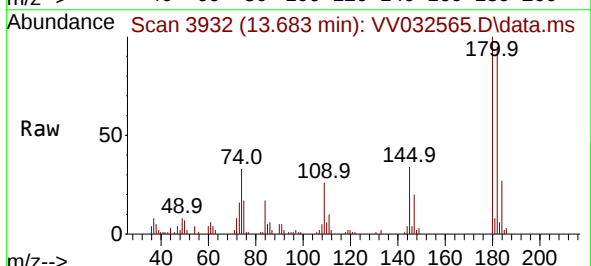
Tgt Ion:180 Resp: 4930
Ion Ratio Lower Upper
180 100
182 95.6 76.5 114.7
145 30.3 24.3 36.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2023
Supervised By :Mahesh Dadoda 10/26/2023



#72
1,2,3-Trichlorobenzene
Concen: 2.538 ug/L
RT: 13.683 min Scan# 3932
Delta R.T. 0.000 min
Lab File: VV032565.D
Acq: 23 Oct 2023 13:04



Tgt Ion:180 Resp: 27117
Ion Ratio Lower Upper
180 100
182 95.9 77.0 115.4
145 32.9 25.7 38.5

