

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW071922\
 Data File : VW026827.D
 Acq On : 19 Jul 2022 15:29
 Operator : SY/MD
 Sample : N3754-14
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 GBHQ6

Quant Time: Jul 20 05:50:15 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR071122WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Jul 20 05:46:20 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	218817	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	227261	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	108670	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.301	65	72051	3.609	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.200%
7) Chloroethane-d5	1.564	69	70556	4.091	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	81.800%
11) 1,1-Dichloroethene-d2	2.101	63	121232	3.163	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.200%
20) 2-Butanone-d5	3.902	46	196056	62.927	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	125.860%
24) Chloroform-d	4.346	84	180891	5.182	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.600%
26) 1,2-Dichloroethane-d4	5.031	65	77275	5.068	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.400%
32) Benzene-d6	5.050	84	280145	4.057	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.200%
36) 1,2-Dichloropropane-d6	6.069	67	98949	4.779	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.600%
41) Toluene-d8	7.313	98	259320	4.230	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.600%
43) trans-1,3-Dichloroprop...	7.625	79	29110	4.297	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.000%
46) 2-Hexanone-d5	8.091	63	154069	52.531	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.060%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	81547	5.056	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.200%
66) 1,2-Dichlorobenzene-d4	11.625	152	90730	4.792	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.127	85	91384	3.285	ug/L	99
5) Vinyl chloride	1.307	62	104377	3.840	ug/L	99
8) Chloroethane	1.581	64	228468	14.266	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	2.111	101	231848	11.717	ug/L	98
12) 1,1-Dichloroethene	2.114	96	47046	2.452	ug/L	91
13) Acetone	2.191	43	368890	140.724	ug/L #	29
15) Methyl Acetate	2.439	43	73484	13.861	ug/L	97
16) Methylene chloride	2.500	84	30010	1.313	ug/L	97
18) trans-1,2-Dichloroethene	2.757	96	56878	3.225	ug/L	95
19) 1,1-Dichloroethane	3.185	63	78228	2.429	ug/L	97
22) cis-1,2-Dichloroethene	3.908	96	81355	4.574	ug/L	97
23) Bromochloromethane	4.246	128	50153	6.121	ug/L	92
25) Chloroform	4.371	83	313127	9.284	ug/L	99
27) 1,2-Dichloroethane	5.133	62	39564	2.177	ug/L	98
29) 1,1,1-Trichloroethane	4.606	97	66106	2.159	ug/L	97
31) Carbon tetrachloride	4.825	117	88251	3.263	ug/L	98
34) Trichloroethene	5.915	95	45812	2.453	ug/L	95
39) cis-1,3-Dichloropropene	7.027	75	109253	4.839	ug/L	99
40) 4-Methyl-2-pentanone	7.230	43	548372	65.343	ug/L	98

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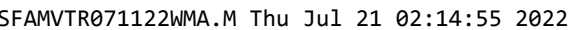
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 Quant Title : TRACE VOA SFAM1.0
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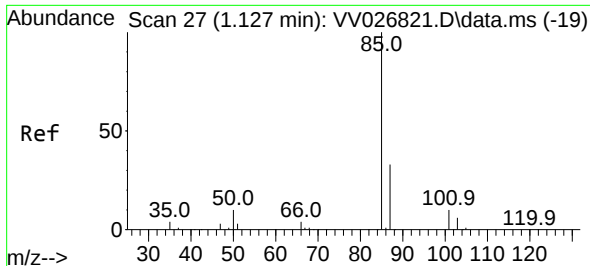
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) trans-1,3-Dichloropropene	7.654	75	46236	2.494	ug/L	97
45) 1,1,2-Trichloroethane	7.841	97	29079	2.189	ug/L	93
47) Tetrachloroethene	7.976	164	50340	3.437	ug/L	99
50) 1,2-Dibromoethane	8.352	107	64582	5.496	ug/L	98
51) Chlorobenzene	8.879	112	321282	6.622	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.239	83	26413	1.680	ug/L	99
59) Bromoform	9.731	173	21861	3.135	ug/L	96
63) 1,2,4-Trimethylbenzene	10.915	105	221117	4.038	ug/L	100
64) 1,3-Dichlorobenzene	11.181	146	111180	3.348	ug/L	99
65) 1,4-Dichlorobenzene	11.271	146	73735	2.184	ug/L	97
70) 1,2,4-trichlorobenzene	13.262	180	89706	5.025	ug/L	99
72) 1,2,3-Trichlorobenzene	13.741	180	48575	2.924	ug/L	98

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

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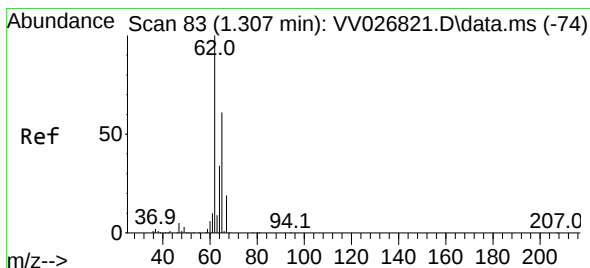
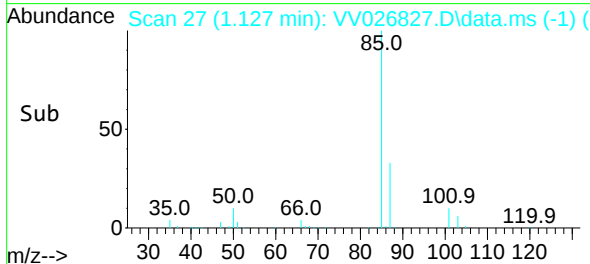
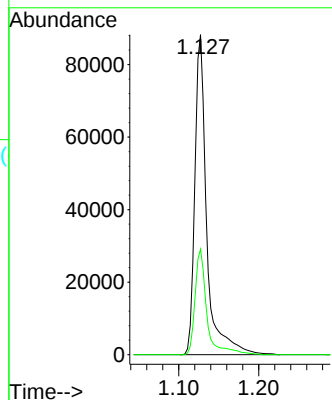
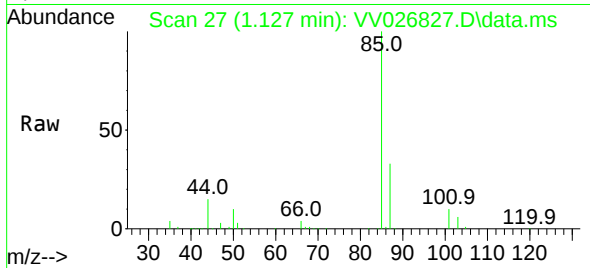




#2
 Dichlorodifluoromethane
 Concen: 3.285 ug/L
 RT: 1.127 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VV026827.D
 Acq: 19 Jul 2022 15:29

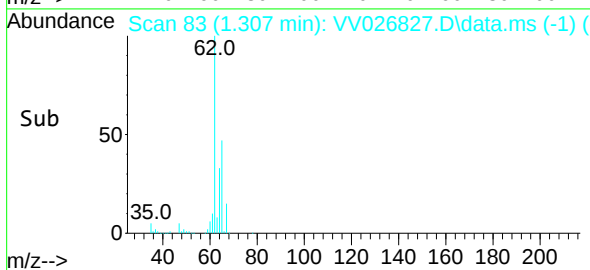
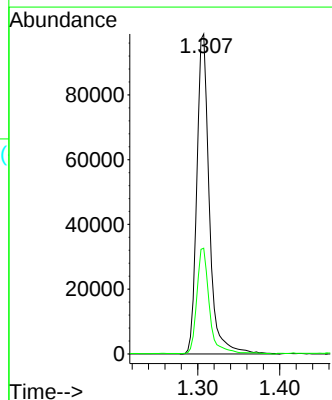
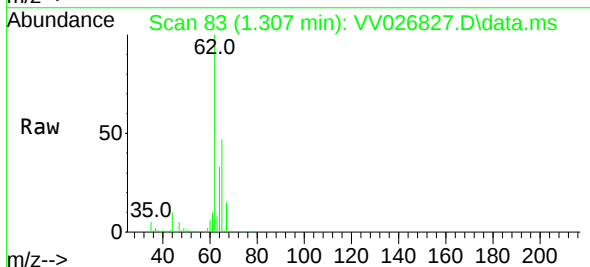
Instrument :
 MSVOA_V
 ClientSampleId :
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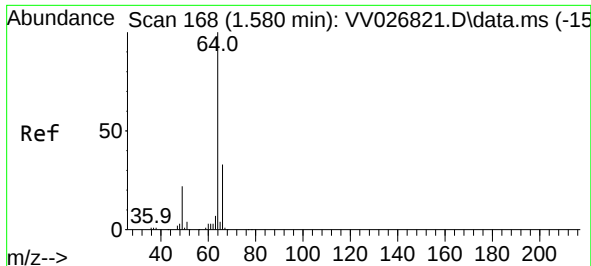
Tgt Ion: 85 Resp: 91384
 Ion Ratio Lower Upper
 85 100
 87 32.8 25.8 38.8



#5
 Vinyl chloride
 Concen: 3.840 ug/L
 RT: 1.307 min Scan# 83
 Delta R.T. 0.000 min
 Lab File: VV026827.D
 Acq: 19 Jul 2022 15:29

Tgt Ion: 62 Resp: 104377
 Ion Ratio Lower Upper
 62 100
 64 33.1 22.9 42.5

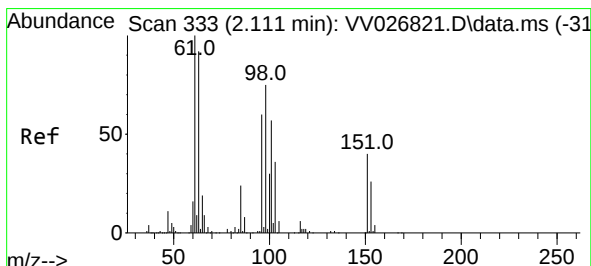
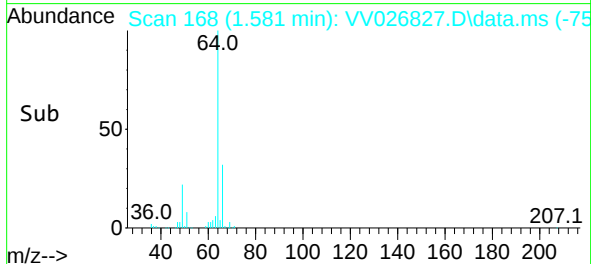
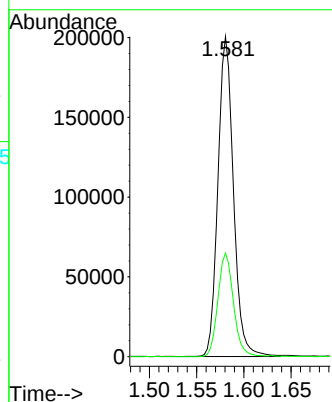
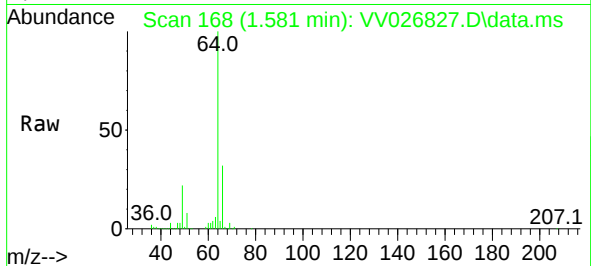




#8
Chloroethane
Concen: 14.266 ug/L
RT: 1.581 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV026827.D
Acq: 19 Jul 2022 15:29

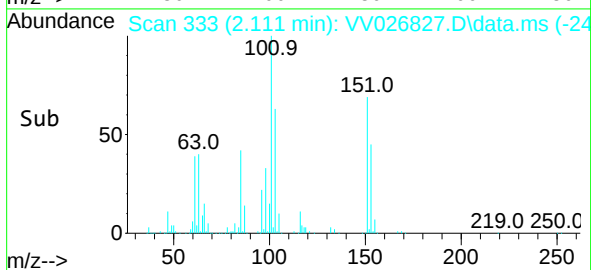
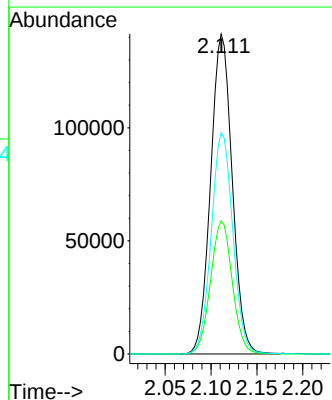
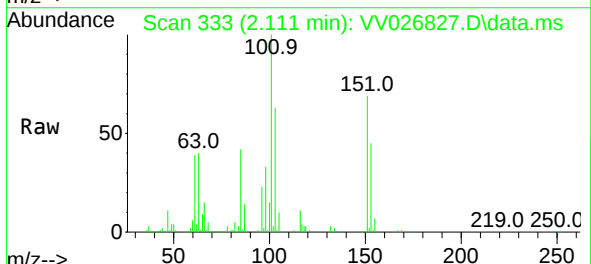
Instrument :
MSVOA_V
ClientSampleId :
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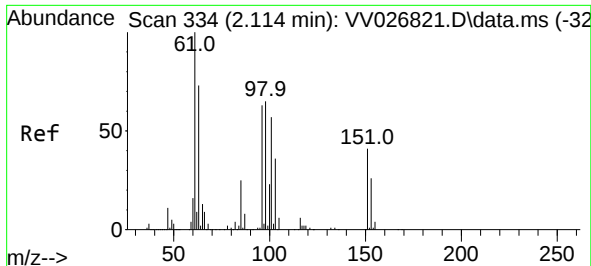
Tgt Ion: 64 Resp: 228468
Ion Ratio Lower Upper
64 100
66 32.4 23.9 44.5



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 11.717 ug/L
RT: 2.111 min Scan# 333
Delta R.T. 0.000 min
Lab File: VV026827.D
Acq: 19 Jul 2022 15:29

Tgt Ion:101 Resp: 231848
Ion Ratio Lower Upper
101 100
85 41.9 35.0 52.4
151 69.5 56.7 85.1





#12

1,1-Dichloroethene

Concen: 2.452 ug/L

RT: 2.114 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV026827.D

Acq: 19 Jul 2022 15:29

Instrument :

MSVOA_V

ClientSampleId :

GBHQ6

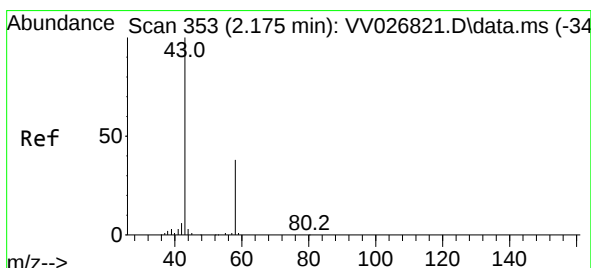
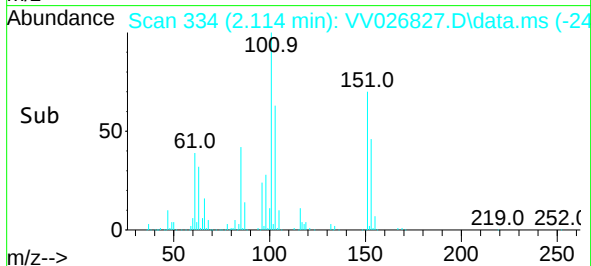
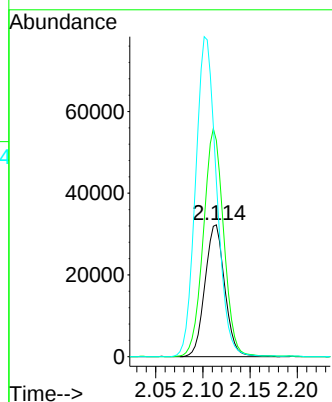
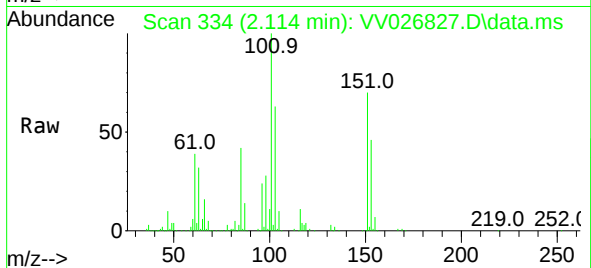
Tgt Ion: 96 Resp: 47046

Ion Ratio Lower Upper

96 100

61 164.2 118.3 219.7

63 133.4 79.9 148.3



#13

Acetone

Concen: 140.724 ug/L

RT: 2.191 min Scan# 358

Delta R.T. 0.016 min

Lab File: VV026827.D

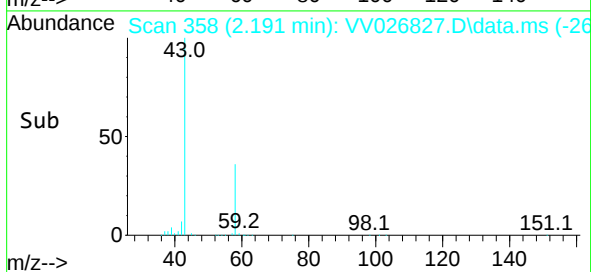
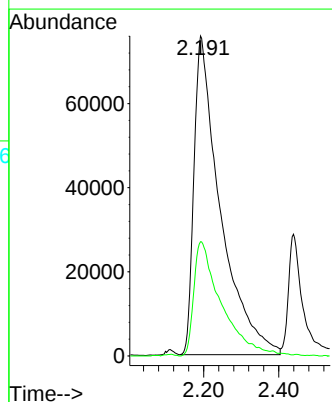
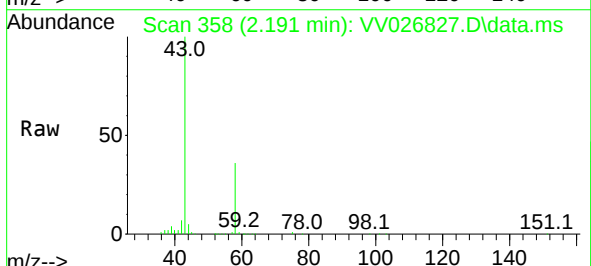
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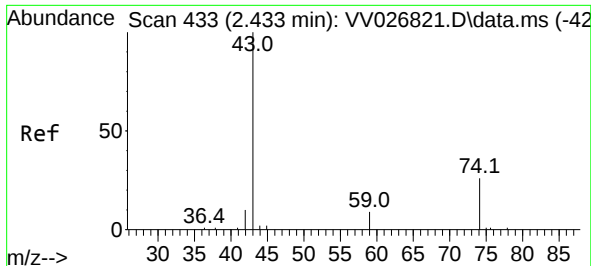
Tgt Ion: 43 Resp: 368890

Ion Ratio Lower Upper

43 100

58 36.9 0.0 20.6#

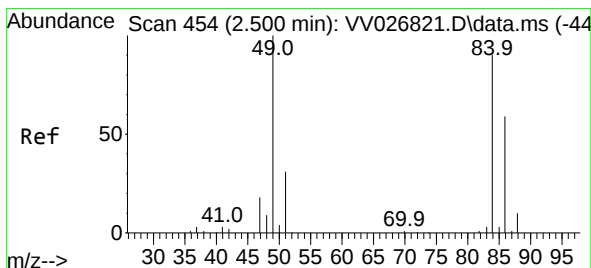
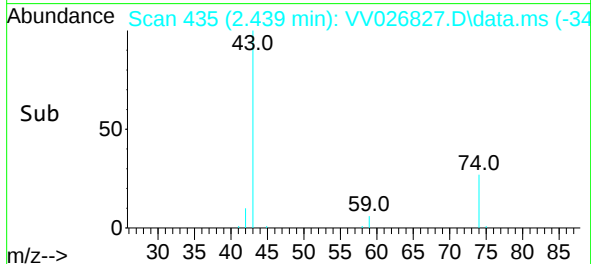
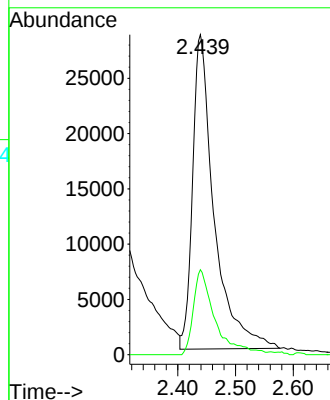
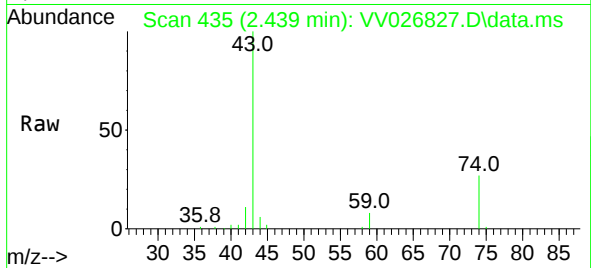




#15
Methyl Acetate
Concen: 13.861 ug/L
RT: 2.439 min Scan# 41
Delta R.T. 0.006 min
Lab File: VV026827.D
Acq: 19 Jul 2022 15:29

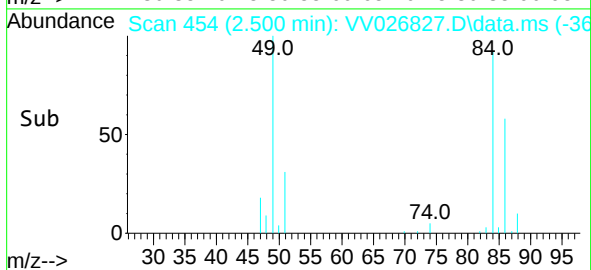
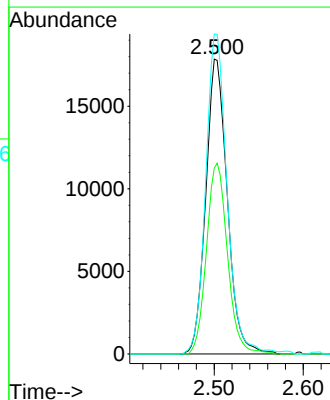
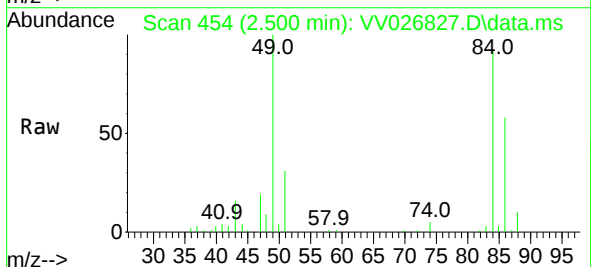
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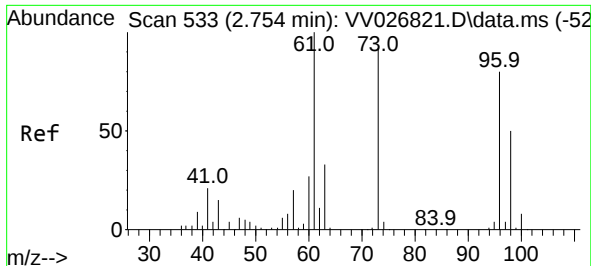
Tgt Ion: 43 Resp: 73484
Ion Ratio Lower Upper
43 100
74 26.4 20.1 30.1



#16
Methylene chloride
Concen: 1.313 ug/L
RT: 2.500 min Scan# 454
Delta R.T. 0.000 min
Lab File: VV026827.D
Acq: 19 Jul 2022 15:29

Tgt Ion: 84 Resp: 30010
Ion Ratio Lower Upper
84 100
86 63.0 44.8 83.2
49 108.5 78.7 146.1

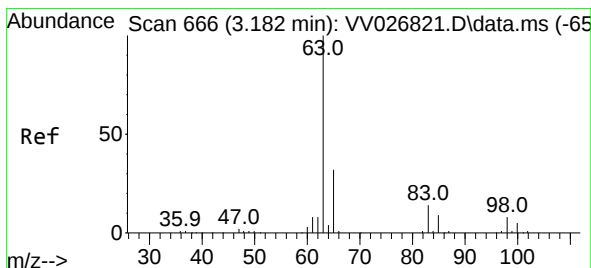
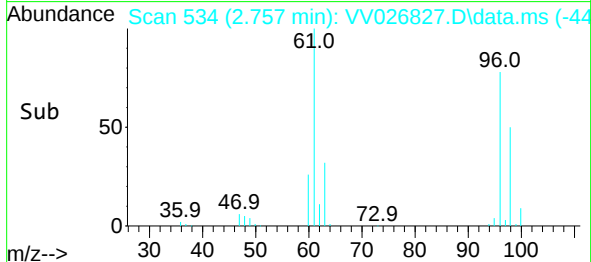
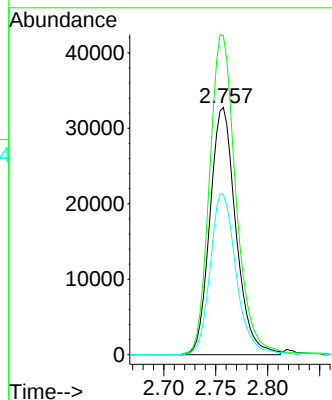
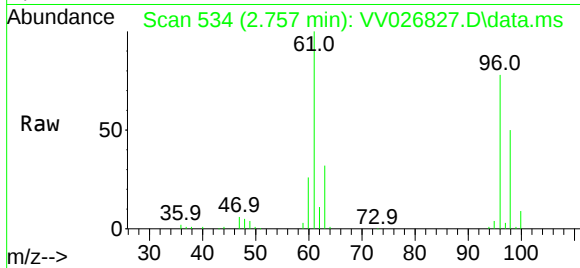




#18
trans-1,2-Dichloroethene
Concen: 3.225 ug/L
RT: 2.757 min Scan# 51
Delta R.T. 0.003 min
Lab File: VV026827.D
Acq: 19 Jul 2022 15:29

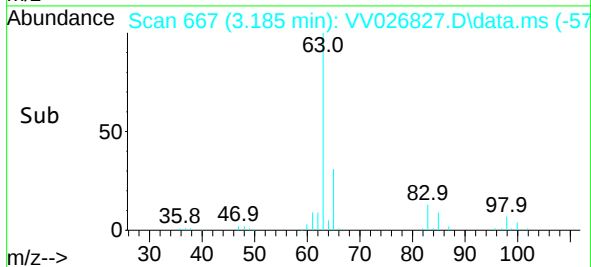
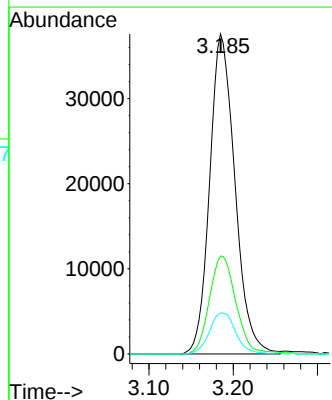
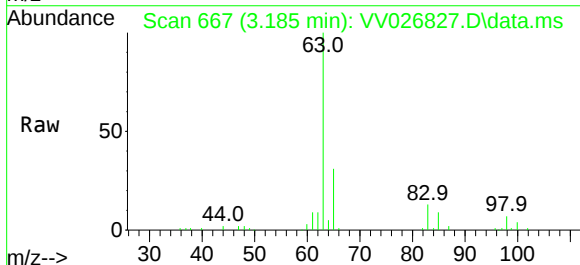
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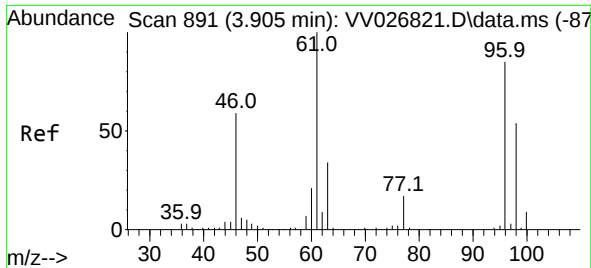
Tgt Ion: 96 Resp: 56878
Ion Ratio Lower Upper
96 100
61 129.0 94.7 175.9
98 64.7 47.4 88.0



#19
1,1-Dichloroethane
Concen: 2.429 ug/L
RT: 3.185 min Scan# 667
Delta R.T. 0.003 min
Lab File: VV026827.D
Acq: 19 Jul 2022 15:29

Tgt Ion: 63 Resp: 78228
Ion Ratio Lower Upper
63 100
65 30.6 22.3 41.3
83 12.7 9.9 18.5

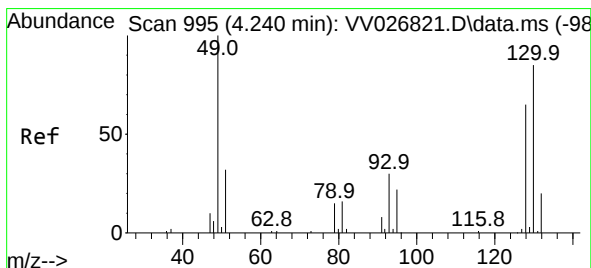
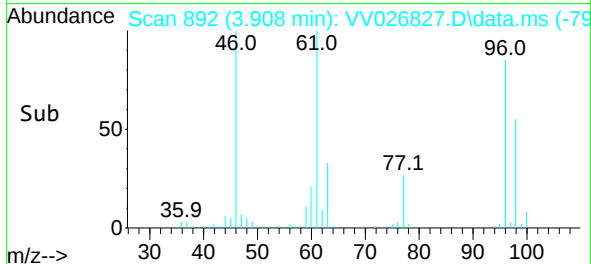
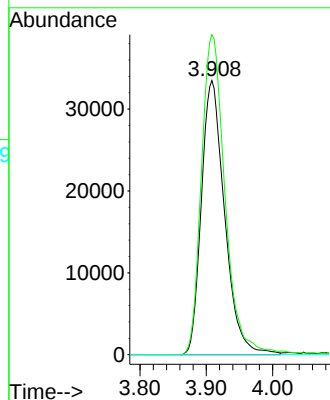
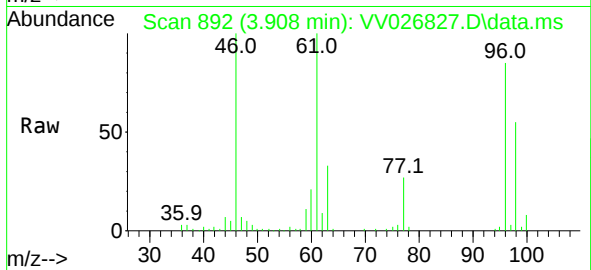




#22
 cis-1,2-Dichloroethene
 Concen: 4.574 ug/L
 RT: 3.908 min Scan# 891
 Delta R.T. 0.003 min
 Lab File: VV026827.D
 Acq: 19 Jul 2022 15:29

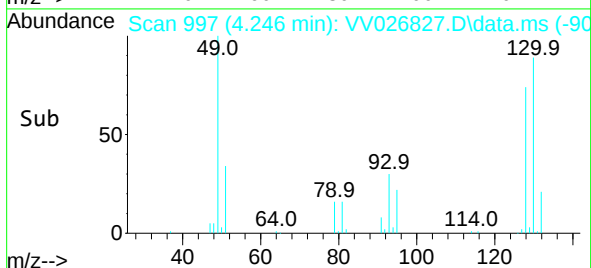
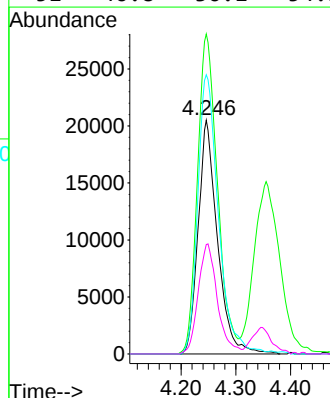
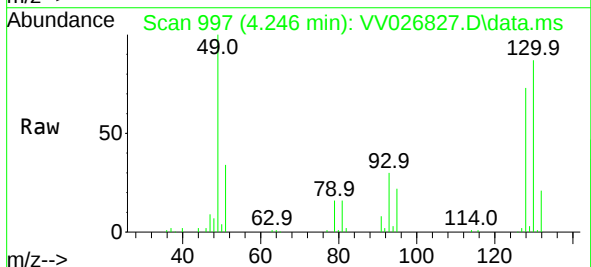
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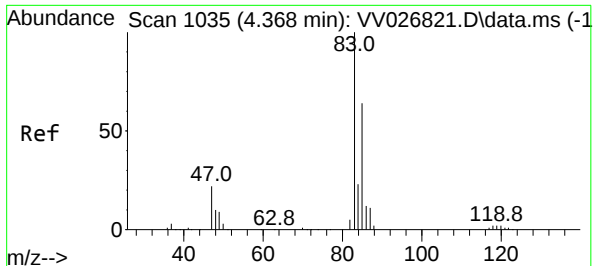
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 Ion Ratio Lower Upper
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 61 116.7 83.9 155.9
 68 0.0 0.0 0.0



#23
 Bromochloromethane
 Concen: 6.121 ug/L
 RT: 4.246 min Scan# 997
 Delta R.T. 0.006 min
 Lab File: VV026827.D
 Acq: 19 Jul 2022 15:29

Tgt Ion: 128 Resp: 50153
 Ion Ratio Lower Upper
 128 100
 49 136.9 107.2 199.2
 130 119.4 87.1 161.7
 51 46.8 36.1 54.1





#25

Chloroform

Concen: 9.284 ug/L

RT: 4.371 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV026827.D

Acq: 19 Jul 2022 15:29

Instrument :

MSVOA_V

ClientSampleId :

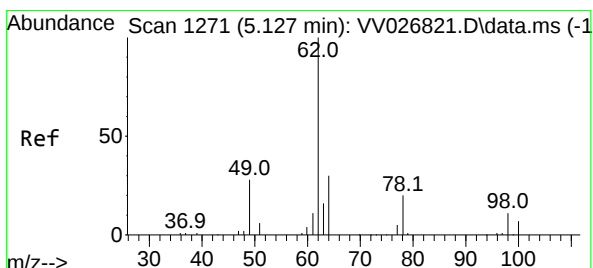
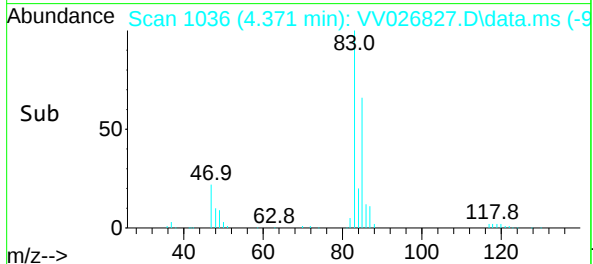
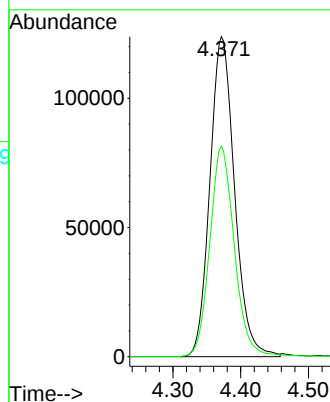
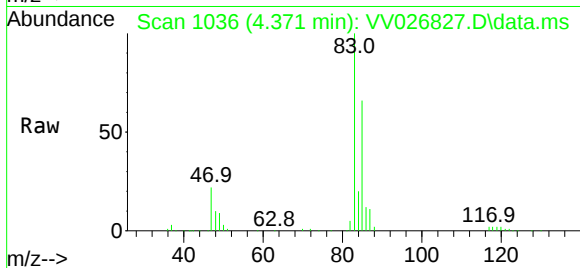
GBHQ6

Tgt Ion: 83 Resp: 313127

Ion Ratio Lower Upper

83 100

85 65.8 45.7 84.9



#27

1,2-Dichloroethane

Concen: 2.177 ug/L

RT: 5.133 min Scan# 1273

Delta R.T. 0.006 min

Lab File: VV026827.D

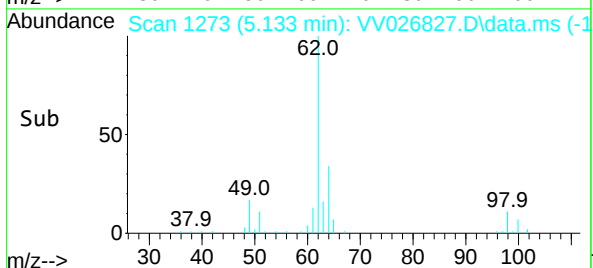
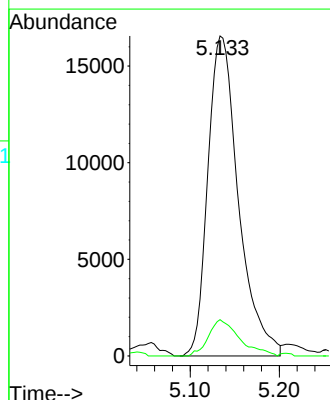
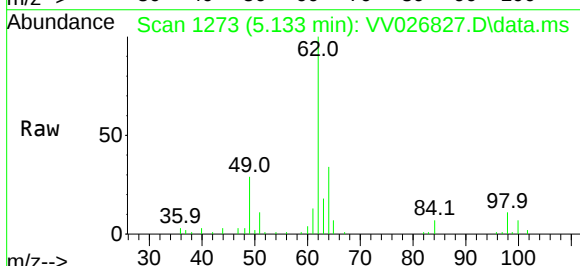
Acq: 19 Jul 2022 15:29

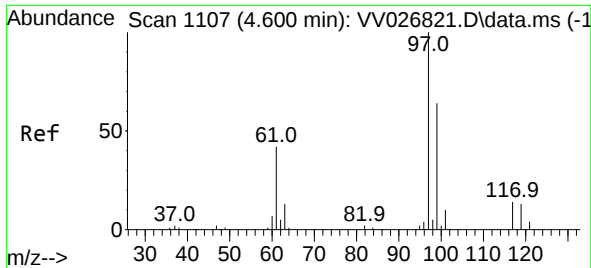
Tgt Ion: 62 Resp: 39564

Ion Ratio Lower Upper

62 100

98 11.3 8.3 12.5





#29

1,1,1-Trichloroethane

Concen: 2.159 ug/L

RT: 4.606 min Scan# 1107

Delta R.T. 0.006 min

Lab File: VV026827.D

Acq: 19 Jul 2022 15:29

Instrument :

MSVOA_V

ClientSampleId :

GBHQ6

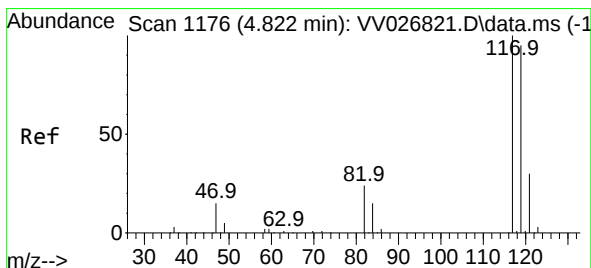
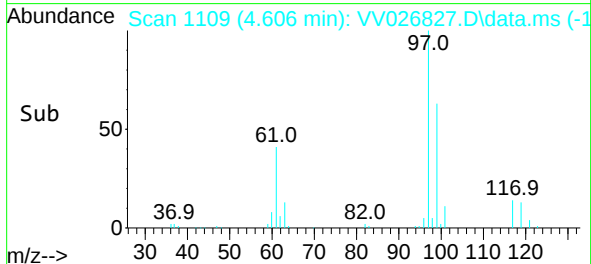
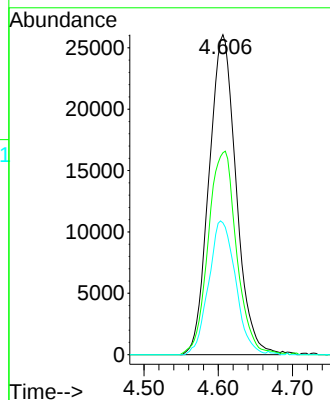
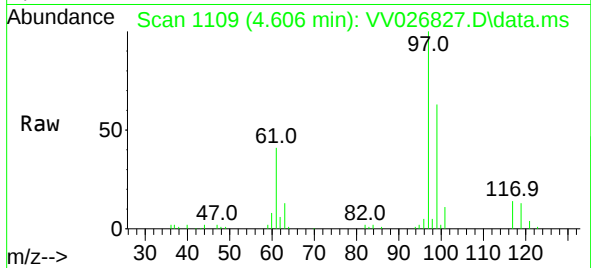
Tgt Ion: 97 Resp: 66106

Ion Ratio Lower Upper

97 100

99 66.5 51.3 76.9

61 41.4 35.1 52.7



#31

Carbon tetrachloride

Concen: 3.263 ug/L

RT: 4.825 min Scan# 1177

Delta R.T. 0.003 min

Lab File: VV026827.D

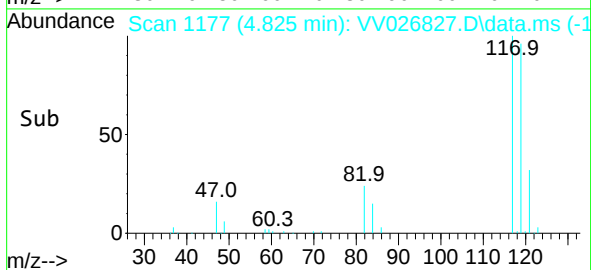
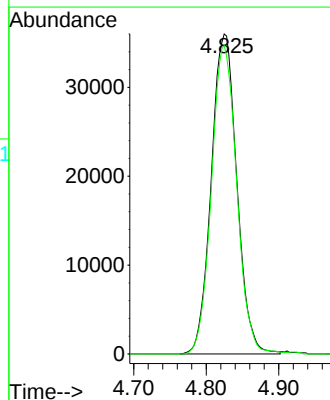
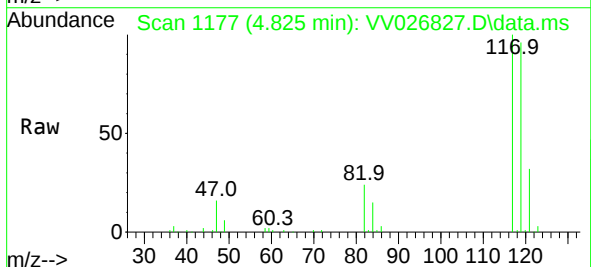
Acq: 19 Jul 2022 15:29

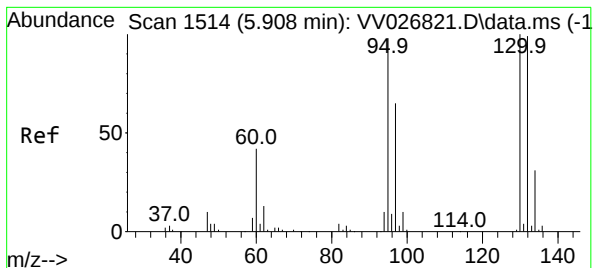
Tgt Ion: 117 Resp: 88251

Ion Ratio Lower Upper

117 100

119 95.3 75.1 112.7





#34

Trichloroethene

Concen: 2.453 ug/L

RT: 5.915 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV026827.D

Acq: 19 Jul 2022 15:29

Instrument :

MSVOA_V

ClientSampleId :

GBHQ6

Tgt Ion: 95 Resp: 45812

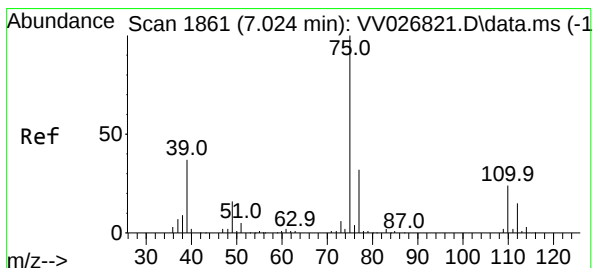
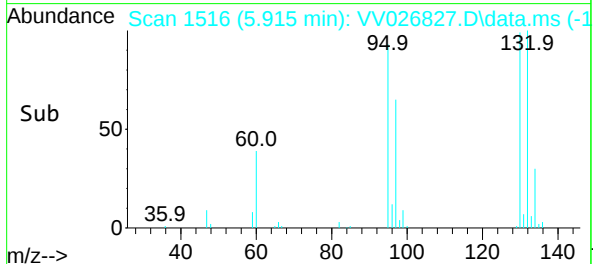
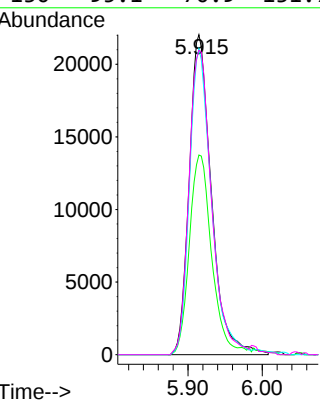
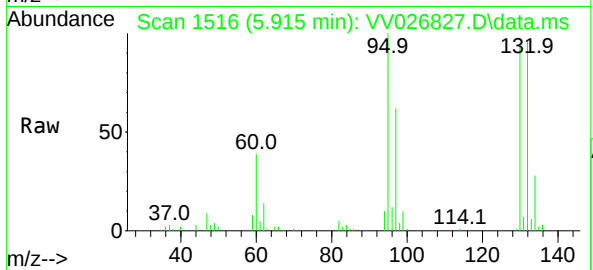
Ion Ratio Lower Upper

95 100

97 62.4 44.6 82.8

132 95.6 70.2 130.4

130 95.1 70.9 131.7



#39

cis-1,3-Dichloropropene

Concen: 4.839 ug/L

RT: 7.027 min Scan# 1862

Delta R.T. 0.003 min

Lab File: VV026827.D

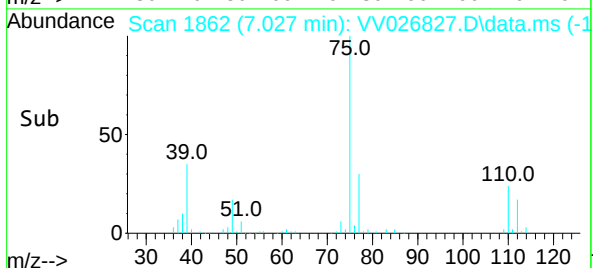
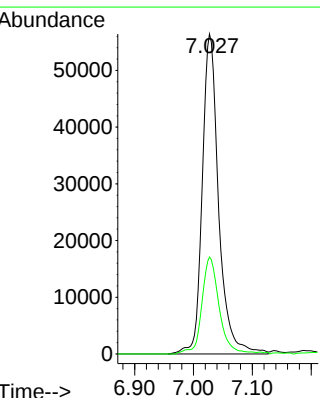
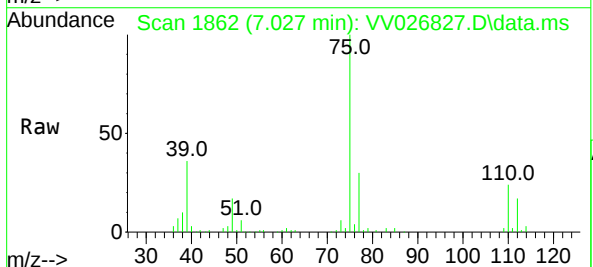
Acq: 19 Jul 2022 15:29

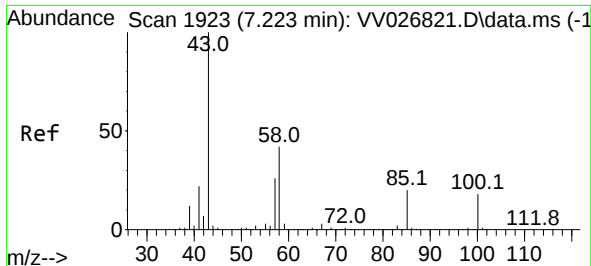
Tgt Ion: 75 Resp: 109253

Ion Ratio Lower Upper

75 100

77 30.3 21.4 39.8





#40

4-Methyl-2-pentanone

Concen: 65.343 ug/L

RT: 7.230 min Scan# 1923

Delta R.T. 0.006 min

Lab File: VV026827.D

Acq: 19 Jul 2022 15:29

Instrument :

MSVOA_V

ClientSampleId :

GBHQ6

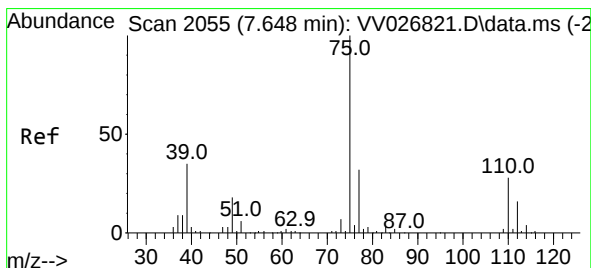
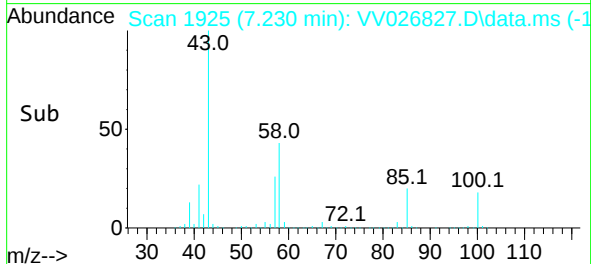
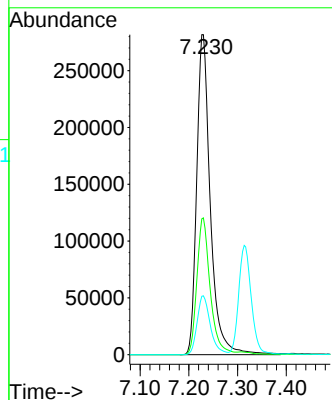
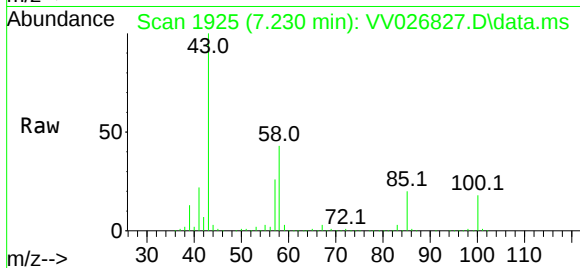
Tgt Ion: 43 Resp: 548372

Ion Ratio Lower Upper

43 100

58 41.6 34.6 51.8

100 17.9 13.6 20.4



#44

trans-1,3-Dichloropropene

Concen: 2.494 ug/L

RT: 7.654 min Scan# 2057

Delta R.T. 0.006 min

Lab File: VV026827.D

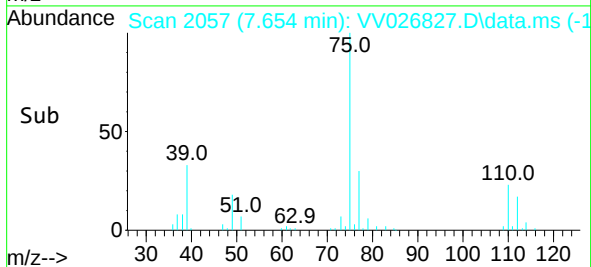
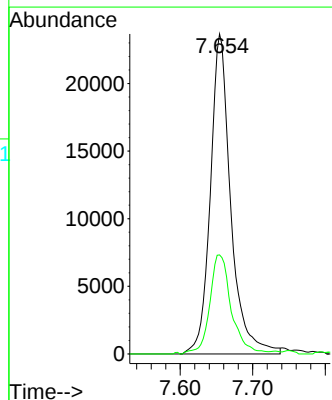
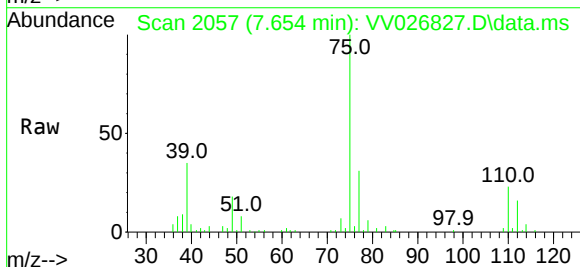
Acq: 19 Jul 2022 15:29

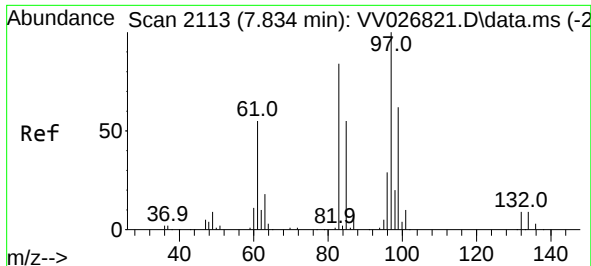
Tgt Ion: 75 Resp: 46236

Ion Ratio Lower Upper

75 100

77 30.9 22.7 42.3

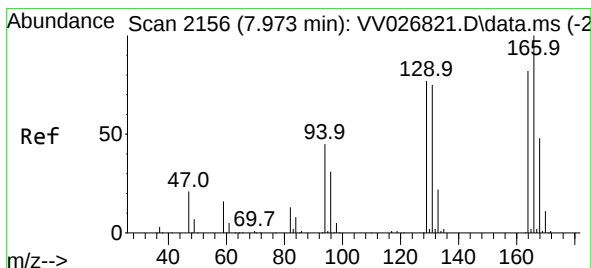
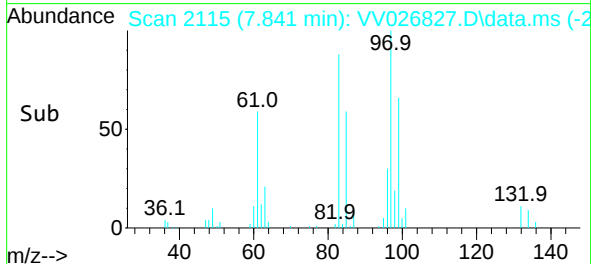
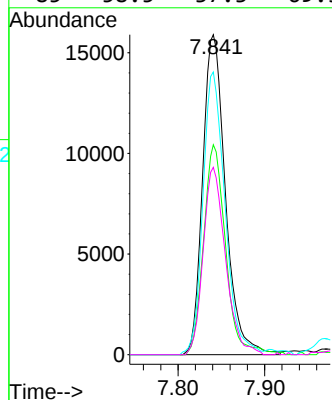
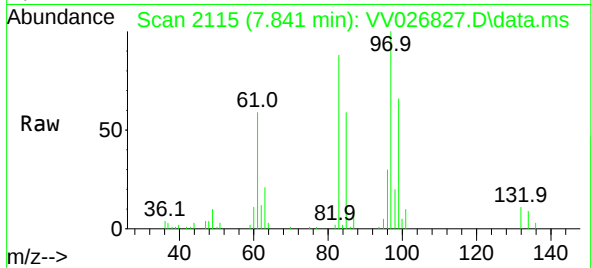




#45
1,1,2-Trichloroethane
Concen: 2.189 ug/L
RT: 7.841 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VV026827.D
Acq: 19 Jul 2022 15:29

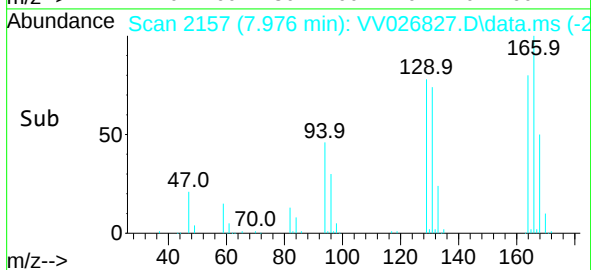
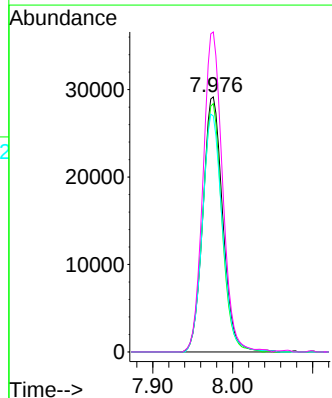
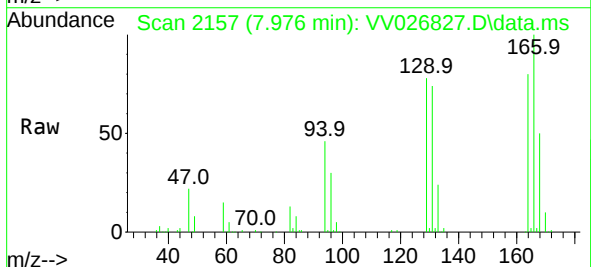
Instrument :
MSVOA_V
ClientSampleId :
GBHQ6

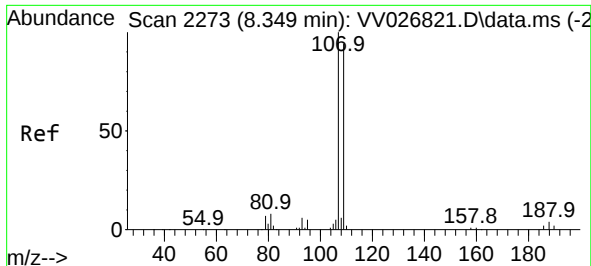
Tgt Ion:	97	Resp:	29079
Ion	Ratio	Lower	Upper
97	100		
99	65.6	41.9	77.9
83	88.3	58.1	107.9
85	58.5	37.3	69.3



#47
Tetrachloroethene
Concen: 3.437 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. 0.003 min
Lab File: VV026827.D
Acq: 19 Jul 2022 15:29

Tgt Ion:	164	Resp:	50340
Ion	Ratio	Lower	Upper
164	100		
129	97.3	67.8	125.8
131	92.5	65.9	122.5
166	125.5	88.8	164.8





#50

1,2-Dibromoethane

Concen: 5.496 ug/L

RT: 8.352 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV026827.D

Acq: 19 Jul 2022 15:29

Instrument :

MSVOA_V

ClientSampleId :

GBHQ6

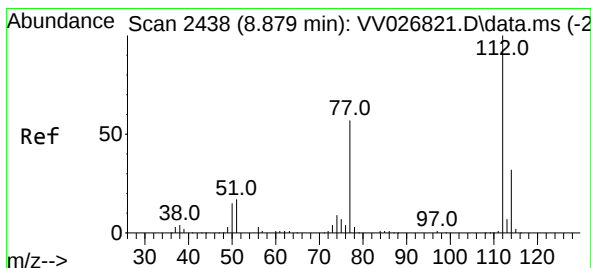
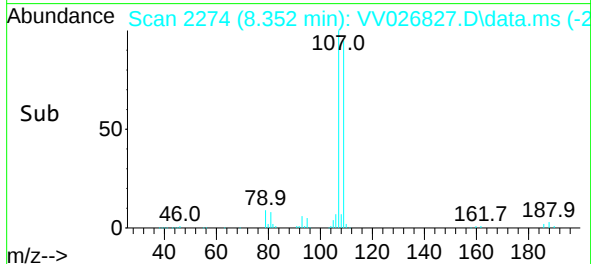
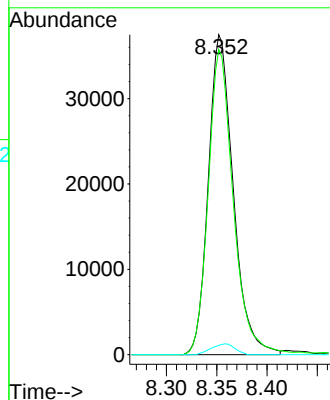
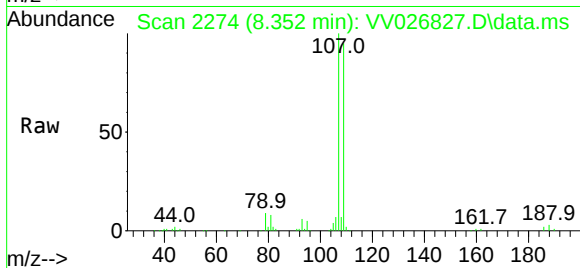
Tgt Ion:107 Resp: 64582

Ion Ratio Lower Upper

107 100

109 95.3 68.0 126.4

188 2.9 2.8 4.2



#51

Chlorobenzene

Concen: 6.622 ug/L

RT: 8.879 min Scan# 2438

Delta R.T. 0.000 min

Lab File: VV026827.D

Acq: 19 Jul 2022 15:29

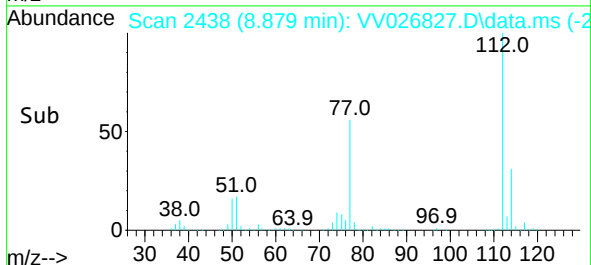
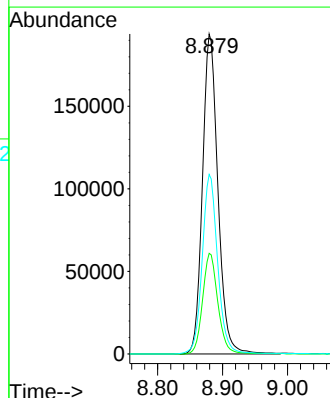
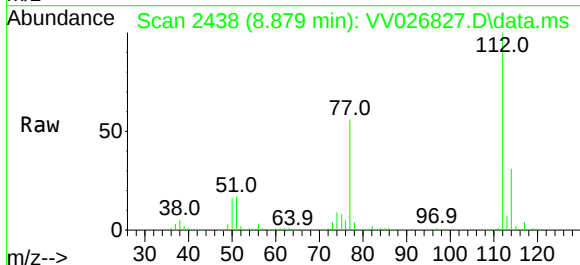
Tgt Ion:112 Resp: 321282

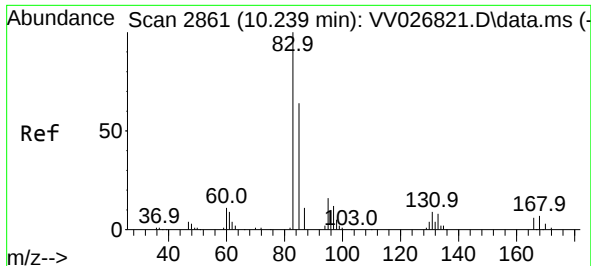
Ion Ratio Lower Upper

112 100

114 31.4 22.7 42.1

77 56.1 46.6 70.0





#57

1,1,2,2-Tetrachloroethane

Concen: 1.680 ug/L

RT: 10.239 min Scan# 21

Delta R.T. 0.000 min

Lab File: VV026827.D

Acq: 19 Jul 2022 15:29

Instrument :

MSVOA_V

ClientSampleId :

GBHQ6

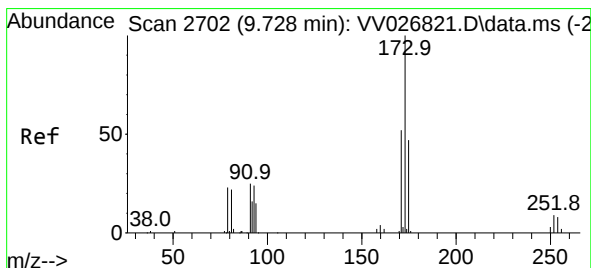
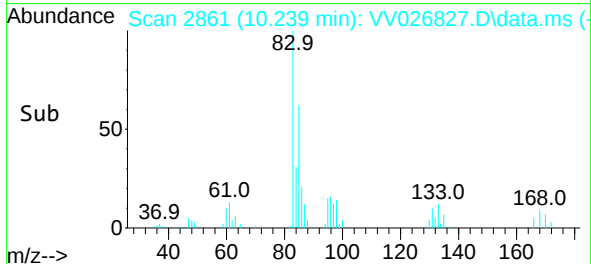
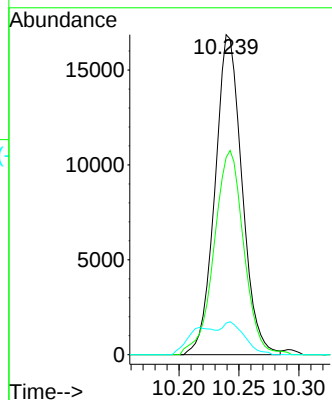
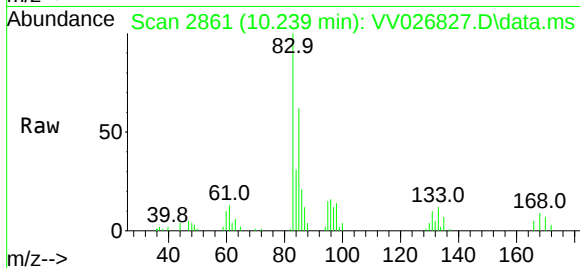
Tgt Ion: 83 Resp: 26413

Ion Ratio Lower Upper

83 100

85 61.6 43.6 81.0

131 9.8 7.4 11.2



#59

Bromoform

Concen: 3.135 ug/L

RT: 9.731 min Scan# 2703

Delta R.T. 0.003 min

Lab File: VV026827.D

Acq: 19 Jul 2022 15:29

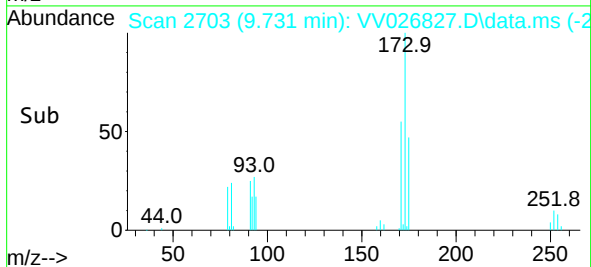
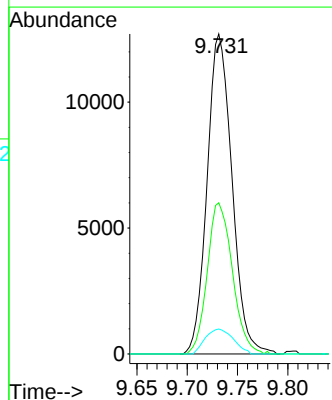
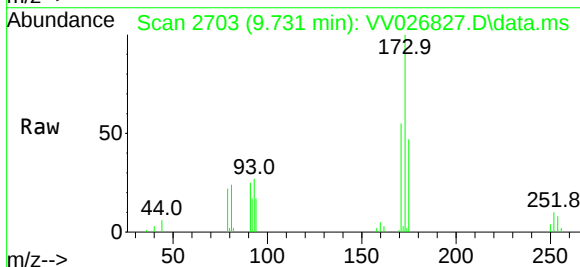
Tgt Ion: 173 Resp: 21861

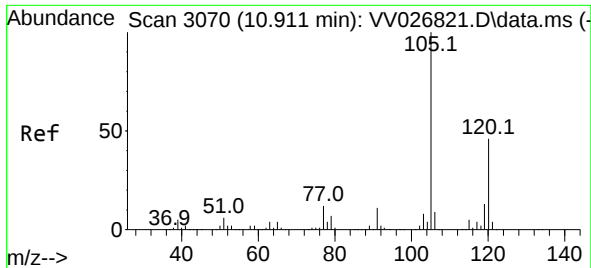
Ion Ratio Lower Upper

173 100

175 47.7 40.7 61.1

254 8.8 6.5 9.7

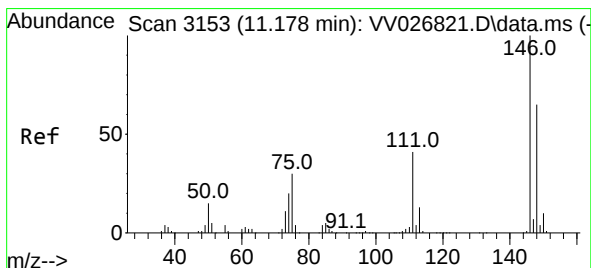
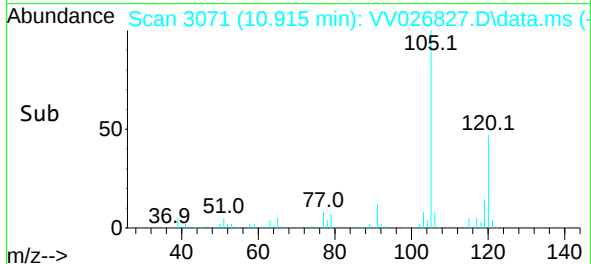
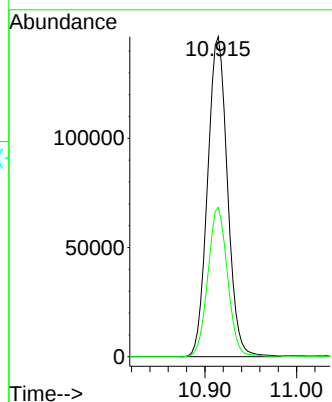
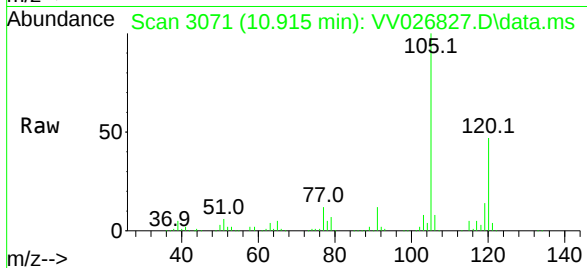




#63
1,2,4-Trimethylbenzene
Concen: 4.038 ug/L
RT: 10.915 min Scan# 3070
Delta R.T. 0.003 min
Lab File: VV026827.D
Acq: 19 Jul 2022 15:29

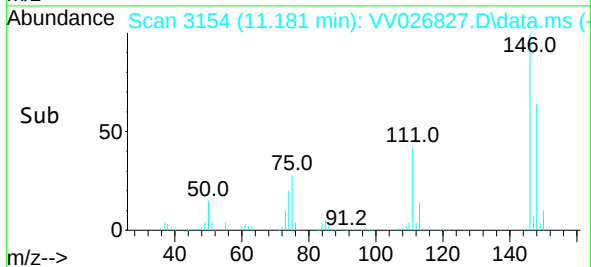
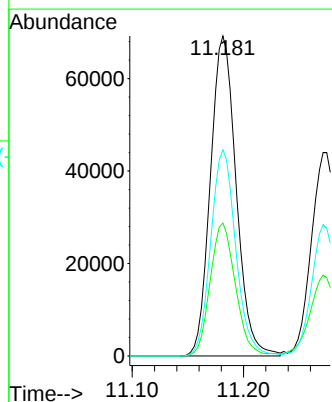
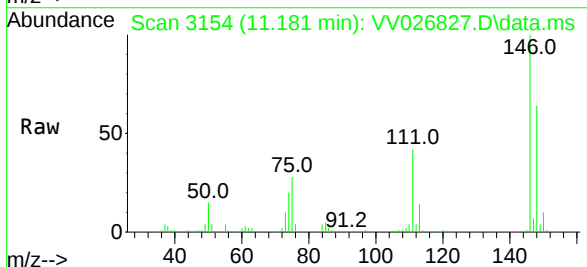
Instrument :
MSVOA_V
ClientSampleId :
GBHQ6

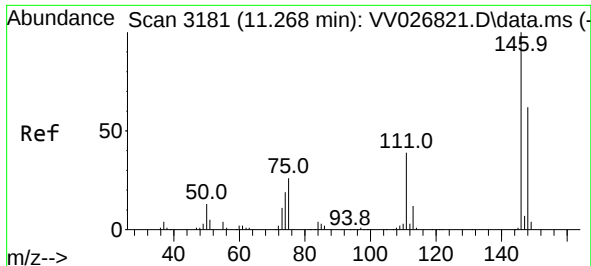
Tgt Ion:105 Resp: 221117
Ion Ratio Lower Upper
105 100
120 46.1 36.8 55.2



#64
1,3-Dichlorobenzene
Concen: 3.348 ug/L
RT: 11.181 min Scan# 3154
Delta R.T. 0.003 min
Lab File: VV026827.D
Acq: 19 Jul 2022 15:29

Tgt Ion:146 Resp: 111180
Ion Ratio Lower Upper
146 100
111 41.6 27.9 51.7
148 64.4 44.9 83.5

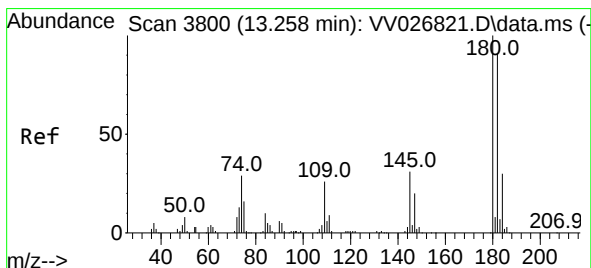
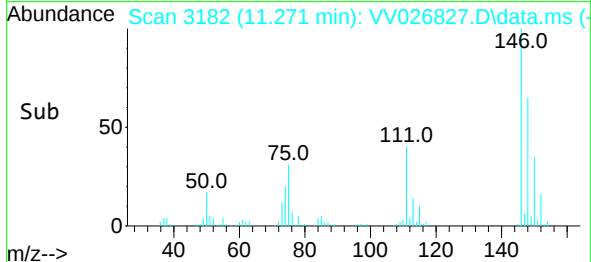
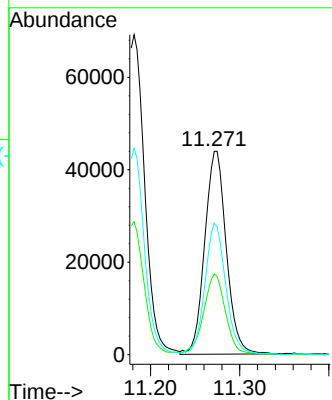
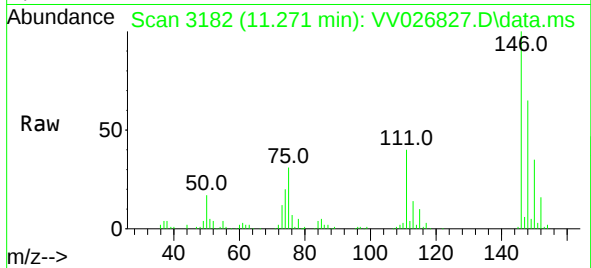




#65
1,4-Dichlorobenzene
Concen: 2.184 ug/L
RT: 11.271 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VV026827.D
Acq: 19 Jul 2022 15:29

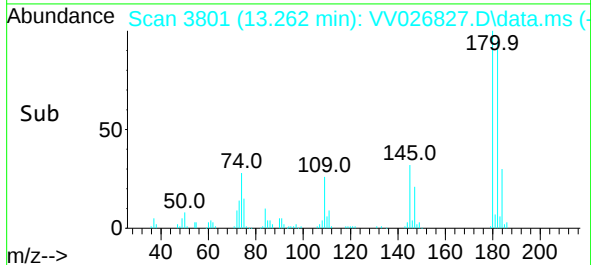
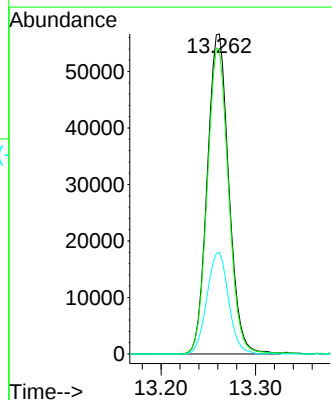
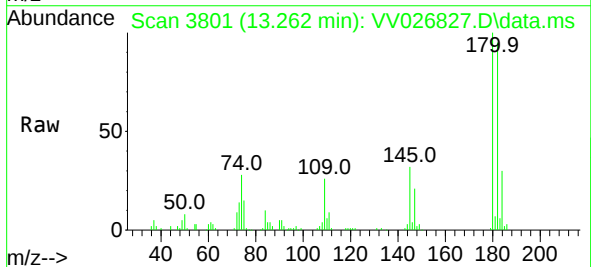
Instrument :
MSVOA_V
ClientSampleId :
GBHQ6

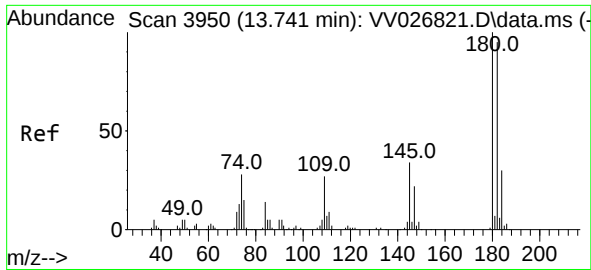
Tgt Ion:146 Resp: 73735
Ion Ratio Lower Upper
146 100
111 39.7 26.8 49.8
148 64.6 43.3 80.5



#70
1,2,4-trichlorobenzene
Concen: 5.025 ug/L
RT: 13.262 min Scan# 3801
Delta R.T. 0.003 min
Lab File: VV026827.D
Acq: 19 Jul 2022 15:29

Tgt Ion:180 Resp: 89706
Ion Ratio Lower Upper
180 100
182 94.2 74.7 112.1
145 31.8 24.7 37.1





#72

1,2,3-Trichlorobenzene

Concen: 2.924 ug/L

RT: 13.741 min Scan# 3950

Delta R.T. 0.000 min

Lab File: VV026827.D

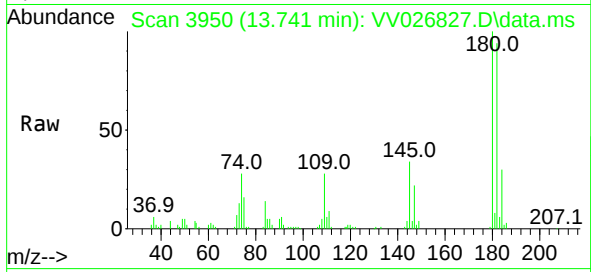
Acq: 19 Jul 2022 15:29

Instrument :

MSVOA_V

ClientSampleId :

GBHQ6



Tgt Ion:180 Resp: 48575

Ion Ratio Lower Upper

180 100

182 95.1 75.0 112.4

145 33.7 26.0 39.0

