

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW060922\
 Data File : VW026055.D
 Acq On : 09 Jun 2022 15:21
 Operator : SY/MD
 Sample : N3247-04
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXYW2

Quant Time: Jun 10 02:52:29 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR060822WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Jun 10 02:49:22 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.625	114	187470	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	184790	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	83412	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.320	65	46376	4.214	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.200%
7) Chloroethane-d5	1.581	69	53278	4.631	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.600%
11) 1,1-Dichloroethene-d2	2.121	63	73652	2.897	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	58.000%#
20) 2-Butanone-d5	3.908	46	88426	54.328	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.660%
24) Chloroform-d	4.362	84	116023	4.974	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.400%
26) 1,2-Dichloroethane-d4	5.043	65	49702	5.224	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.400%
32) Benzene-d6	5.060	84	203068	4.548	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.000%
36) 1,2-Dichloropropane-d6	6.076	67	70801	5.125	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.600%
41) Toluene-d8	7.320	98	157333	3.987	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.800%
43) trans-1,3-Dichloroprop...	7.629	79	18123	4.456	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.200%
46) 2-Hexanone-d5	8.092	63	89213	49.845	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.680%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	48676	5.226	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.600%
66) 1,2-Dichlorobenzene-d4	11.625	152	67611	5.298	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.143	85	1474	0.080	ug/L	99
3) Chloromethane	1.256	50	865	0.042	ug/L #	77
5) Vinyl chloride	1.323	62	25774	1.195	ug/L	98
8) Chloroethane	1.597	64	559378	42.157	ug/L	100
12) 1,1-Dichloroethene	2.124	96	1363	0.090	ug/L #	1
17) Methyl tert-butyl Ether	2.783	73	4505	0.184	ug/L #	71
18) trans-1,2-Dichloroethene	2.777	96	9538	0.671	ug/L	93
19) 1,1-Dichloroethane	3.201	63	895925	34.636	ug/L	99
22) cis-1,2-Dichloroethene	3.928	96	44681	3.188	ug/L	95
25) Chloroform	4.394	83	5133	0.193	ug/L	98
27) 1,2-Dichloroethane	5.162	62	1874	0.143	ug/L #	72
29) 1,1,1-Trichloroethane	4.619	97	363603	14.995	ug/L	100
30) Cyclohexane	4.687	56	1888	0.090	ug/L #	71
31) Carbon tetrachloride	4.616	117	45920	2.306	ug/L	99
33) Benzene	5.124	78	2843	0.049	ug/L	100
34) Trichloroethene	5.918	95	150099	9.893	ug/L	98
35) Methylcyclohexane	6.140	83	6367	0.272	ug/L	94
37) 1,2-Dichloropropane	6.079	63	7941	0.564	ug/L #	87
45) 1,1,2-Trichloroethane	7.793	97	2805	0.307	ug/L #	20

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

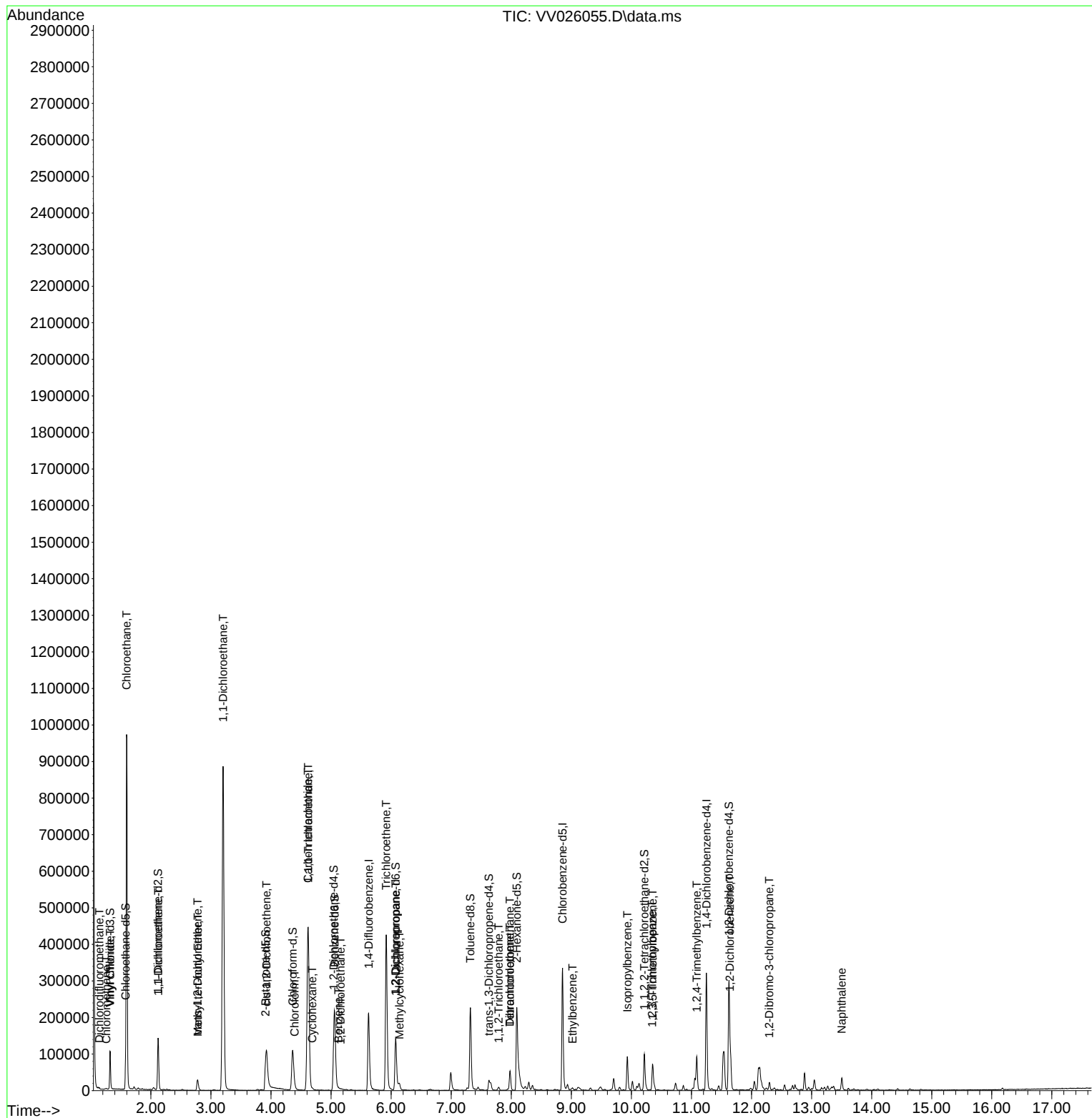
47) Tetrachloroethene	7.979	164	12165	1.036	ug/L	95
49) Dibromochloromethane	7.979	129	10339	1.036	ug/L #	9
52) Ethylbenzene	9.021	91	4381	0.069	ug/L	100
60) Isopropylbenzene	9.934	105	56368	1.017	ug/L	99
61) 1,2,3-Trichloropropane	10.345	75	577	0.089	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.355	105	2194	0.050	ug/L #	1
63) 1,2,4-Trimethylbenzene	11.088	105	57578	1.317	ug/L #	32
67) 1,2-Dichlorobenzene	11.641	146	19334	0.830	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.294	75	143	0.124	ug/L #	1
71) Naphthalene	13.503	128	26737	1.324	ug/L	98

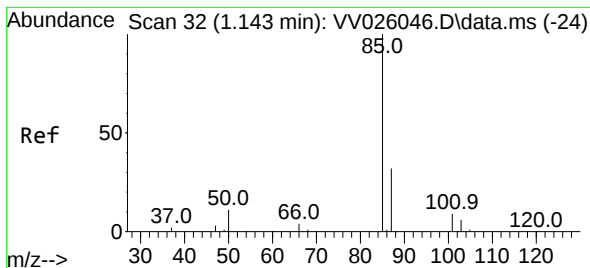
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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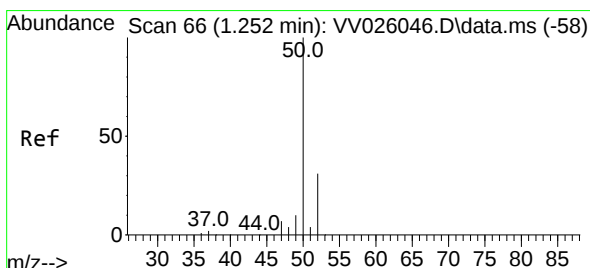
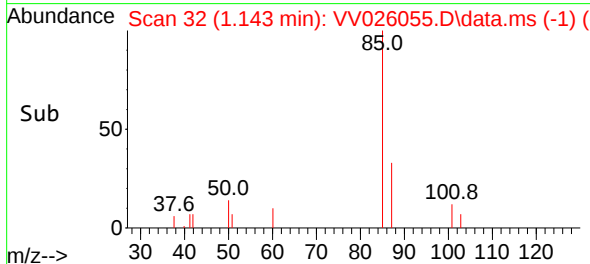
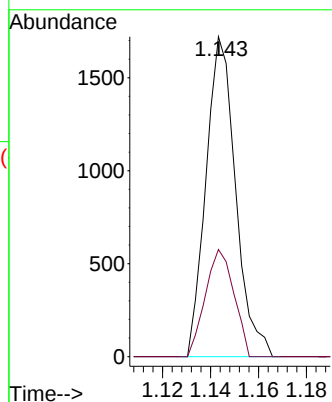
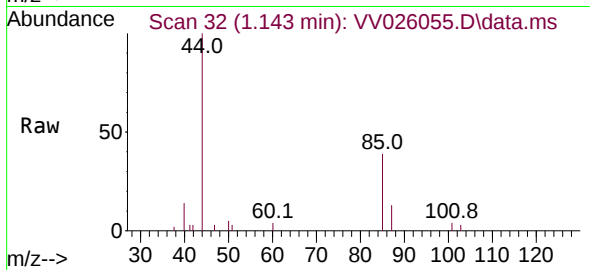




#2
 Dichlorodifluoromethane
 Concen: 0.080 ug/L
 RT: 1.143 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VV026055.D
 Acq: 09 Jun 2022 15:21

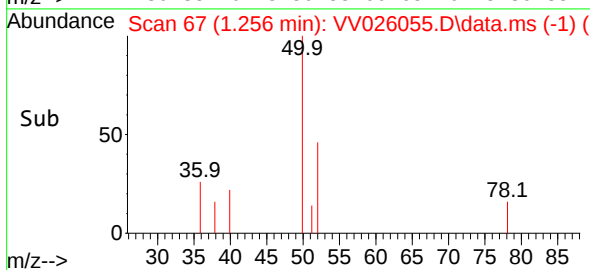
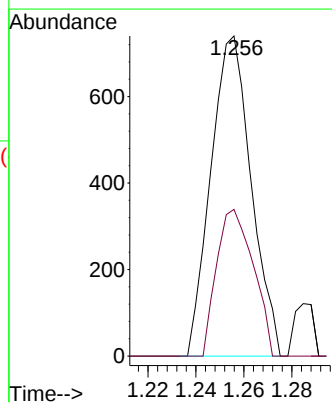
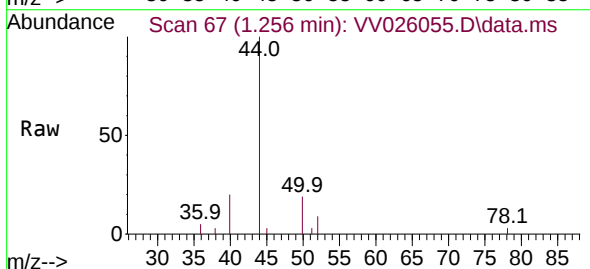
Instrument :
 MSVOA_V
 ClientSampleId :
 EXYW2

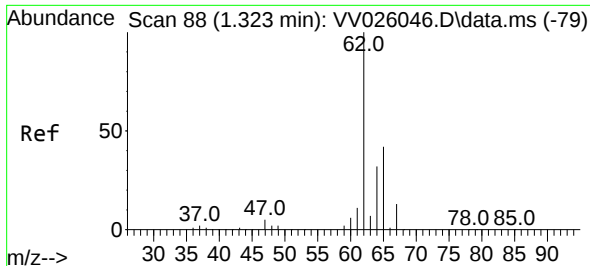
Tgt Ion: 85 Resp: 1474
 Ion Ratio Lower Upper
 85 100
 87 32.2 25.3 37.9



#3
 Chloromethane
 Concen: 0.042 ug/L
 RT: 1.256 min Scan# 67
 Delta R.T. 0.003 min
 Lab File: VV026055.D
 Acq: 09 Jun 2022 15:21

Tgt Ion: 50 Resp: 865
 Ion Ratio Lower Upper
 50 100
 52 45.8 23.0 42.6#

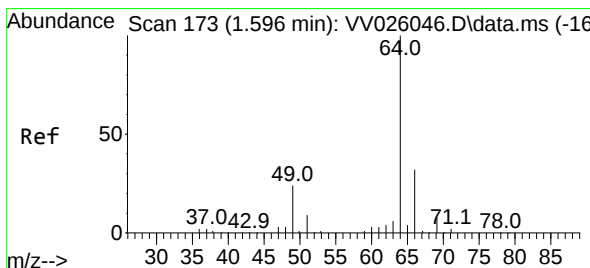
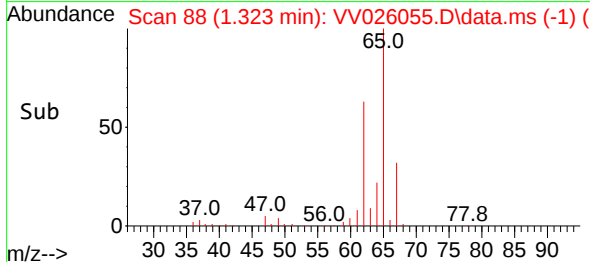
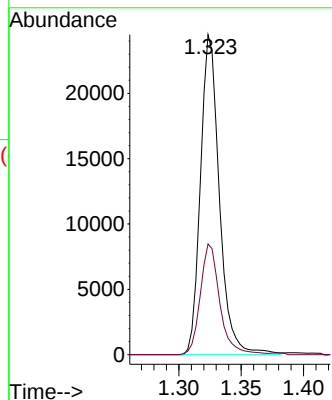
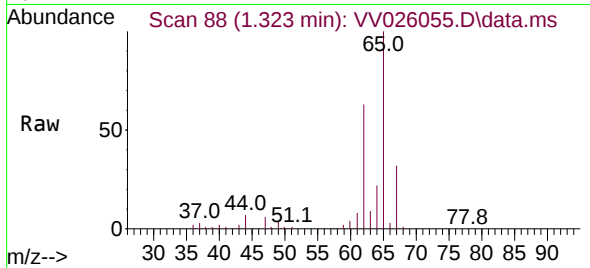




#5
 Vinyl chloride
 Concen: 1.195 ug/L
 RT: 1.323 min Scan# 88
 Delta R.T. 0.000 min
 Lab File: VV026055.D
 Acq: 09 Jun 2022 15:21

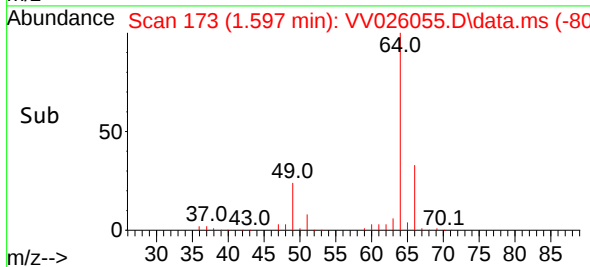
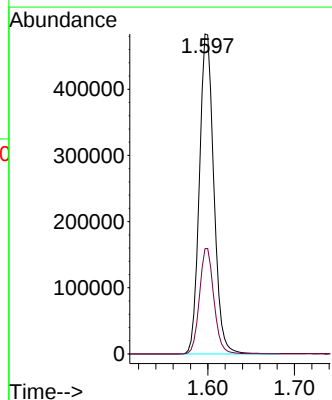
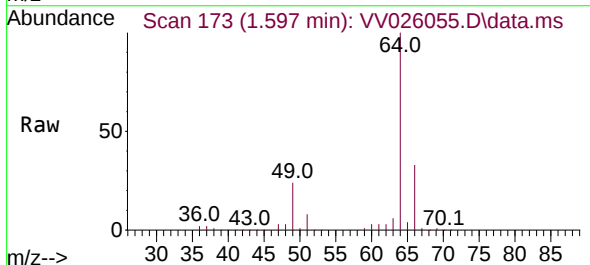
Instrument :
 MSVOA_V
 ClientSampleId :
 EXYW2

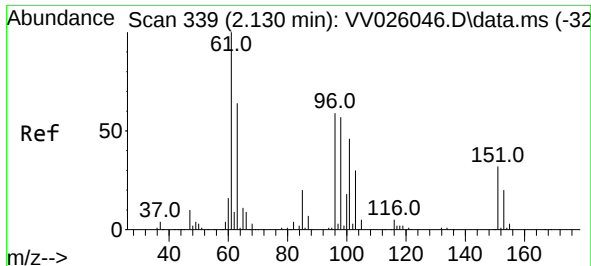
Tgt Ion: 62 Resp: 25774
 Ion Ratio Lower Upper
 62 100
 64 34.6 23.4 43.4



#8
 Chloroethane
 Concen: 42.157 ug/L
 RT: 1.597 min Scan# 173
 Delta R.T. 0.000 min
 Lab File: VV026055.D
 Acq: 09 Jun 2022 15:21

Tgt Ion: 64 Resp: 559378
 Ion Ratio Lower Upper
 64 100
 66 32.9 23.0 42.8

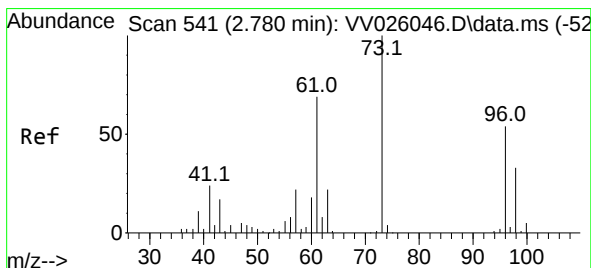
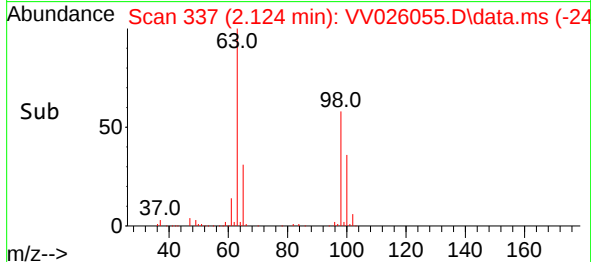
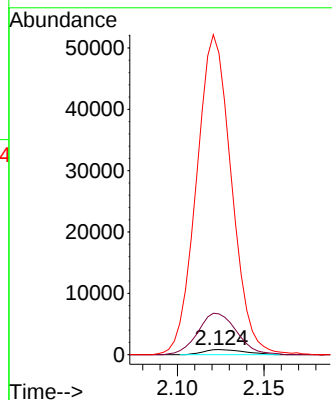
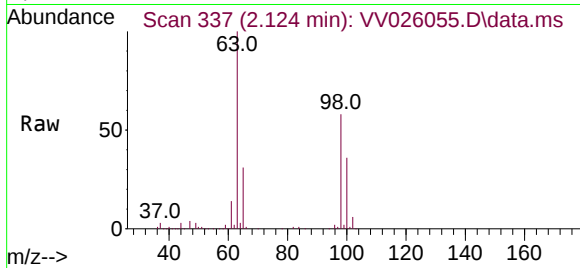




#12
1,1-Dichloroethene
Concen: 0.090 ug/L
RT: 2.124 min Scan# 31
Delta R.T. -0.006 min
Lab File: VV026055.D
Acq: 09 Jun 2022 15:21

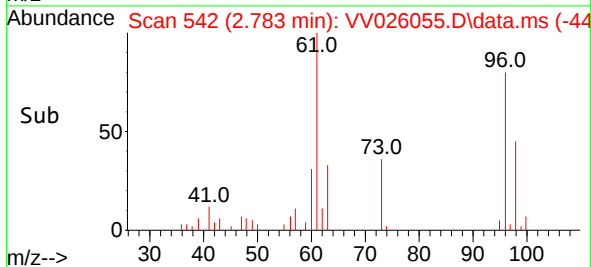
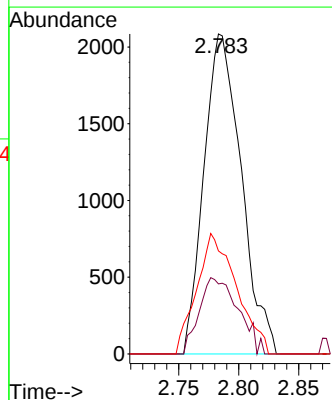
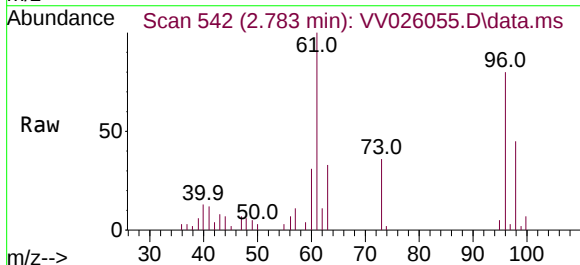
Instrument :
MSVOA_V
ClientSampleId :
EXYW2

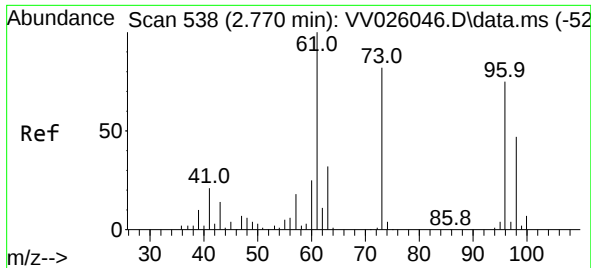
Tgt Ion: 96 Resp: 1363
Ion Ratio Lower Upper
96 100
61 791.5 122.6 227.6#
63 5858.1 78.5 145.9#



#17
Methyl tert-butyl Ether
Concen: 0.184 ug/L
RT: 2.783 min Scan# 542
Delta R.T. 0.003 min
Lab File: VV026055.D
Acq: 09 Jun 2022 15:21

Tgt Ion: 73 Resp: 4505
Ion Ratio Lower Upper
73 100
43 24.9 13.7 20.5#
57 40.2 17.8 26.6#

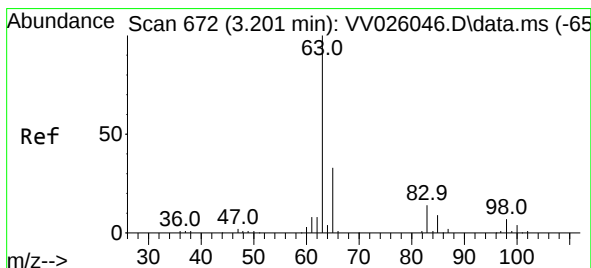
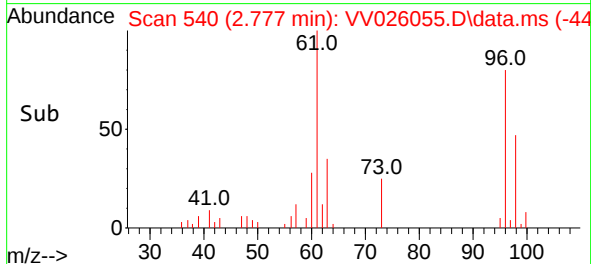
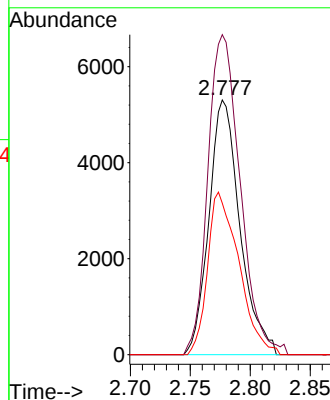
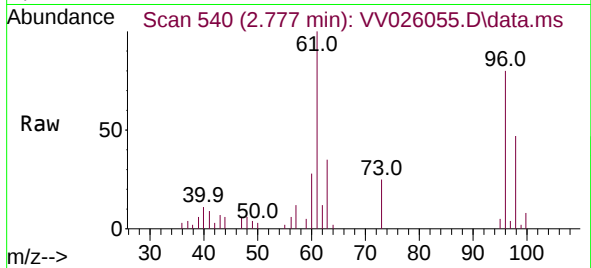




#18
trans-1,2-Dichloroethene
Concen: 0.671 ug/L
RT: 2.777 min Scan# 54
Delta R.T. 0.007 min
Lab File: VV026055.D
Acq: 09 Jun 2022 15:21

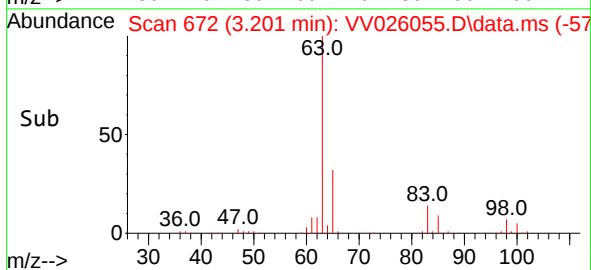
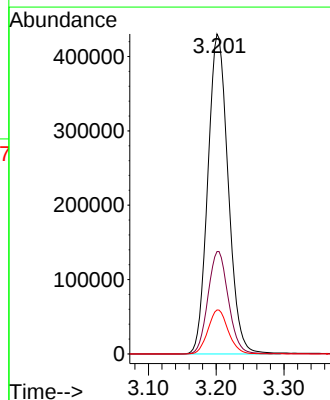
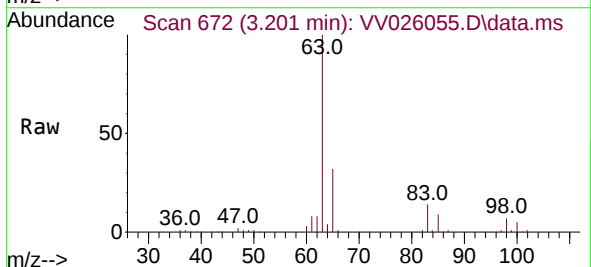
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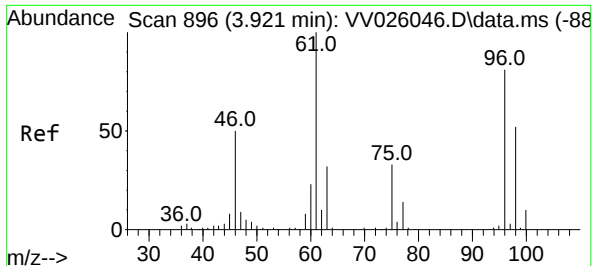
Tgt Ion: 96 Resp: 9538
Ion Ratio Lower Upper
96 100
61 125.6 94.3 175.1
98 59.5 44.4 82.5



#19
1,1-Dichloroethane
Concen: 34.636 ug/L
RT: 3.201 min Scan# 672
Delta R.T. 0.000 min
Lab File: VV026055.D
Acq: 09 Jun 2022 15:21

Tgt Ion: 63 Resp: 895925
Ion Ratio Lower Upper
63 100
65 32.0 23.1 42.9
83 13.7 9.7 18.1





#22

cis-1,2-Dichloroethene

Concen: 3.188 ug/L

RT: 3.928 min Scan# 896

Delta R.T. 0.007 min

Lab File: VV026055.D

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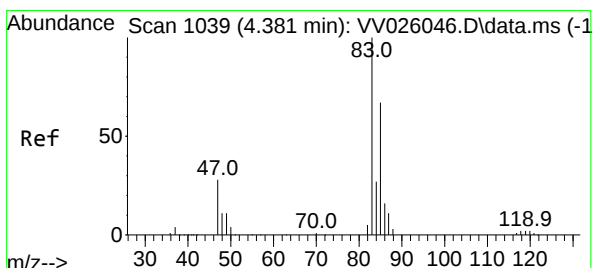
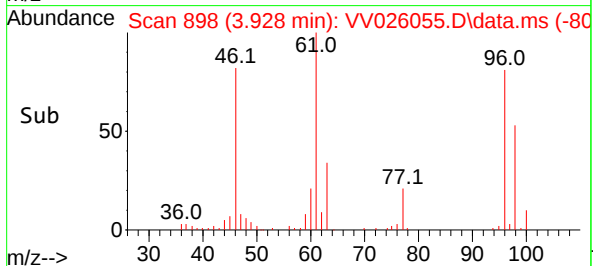
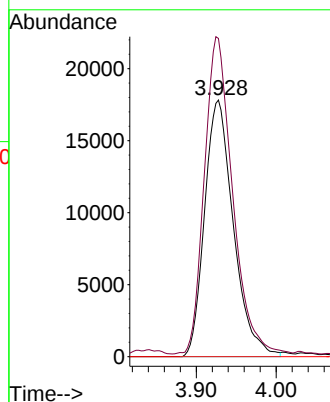
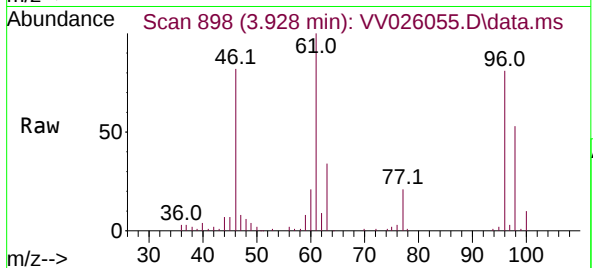
Tgt Ion: 96 Resp: 44681

Ion Ratio Lower Upper

96 100

61 124.0 83.1 154.3

68 0.0 0.0 0.0



#25

Chloroform

Concen: 0.193 ug/L

RT: 4.394 min Scan# 1043

Delta R.T. 0.013 min

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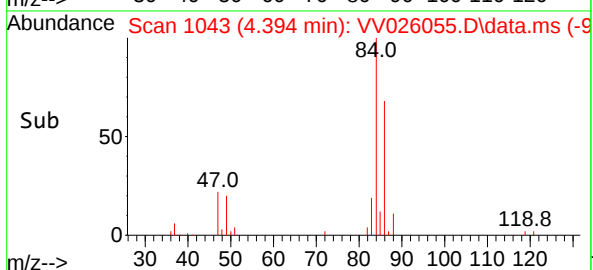
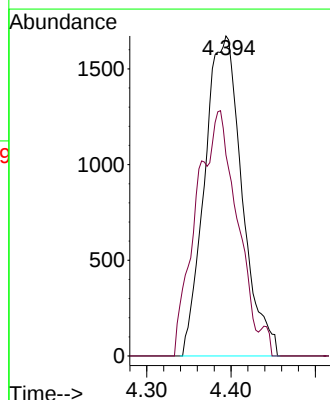
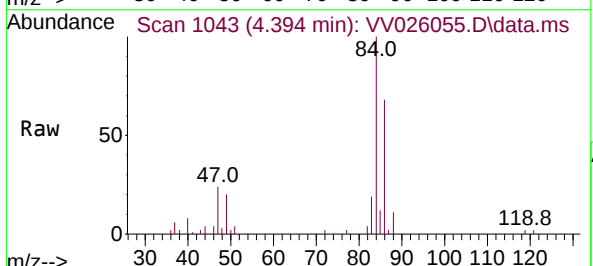
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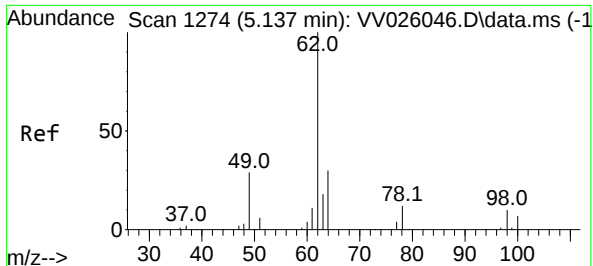
Tgt Ion: 83 Resp: 5133

Ion Ratio Lower Upper

83 100

85 62.8 45.2 84.0





#27

1,2-Dichloroethane

Concen: 0.143 ug/L

RT: 5.162 min Scan# 1128

Delta R.T. 0.026 min

Lab File: VV026055.D

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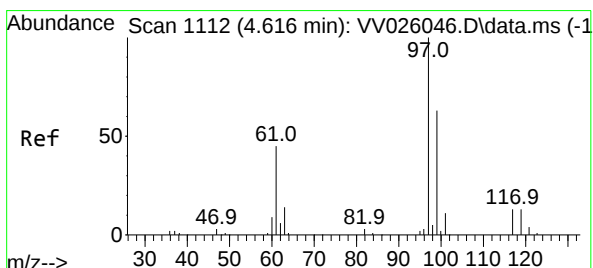
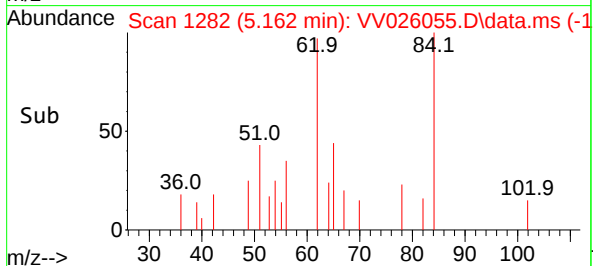
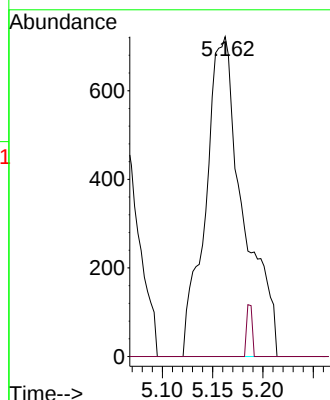
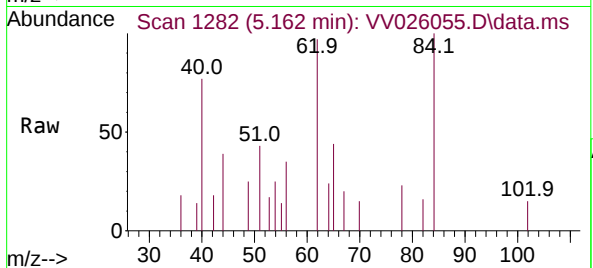
EXYW2

Tgt Ion: 62 Resp: 1874

Ion Ratio Lower Upper

62 100

98 0.0 8.5 12.7#



#29

1,1,1-Trichloroethane

Concen: 14.995 ug/L

RT: 4.619 min Scan# 1113

Delta R.T. 0.003 min

Lab File: VV026055.D

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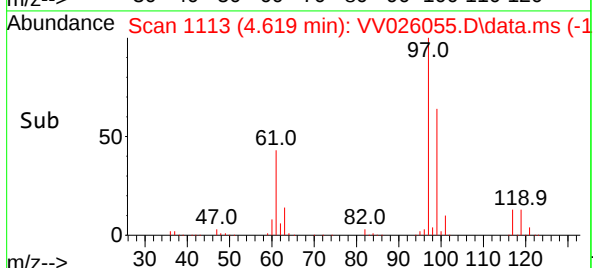
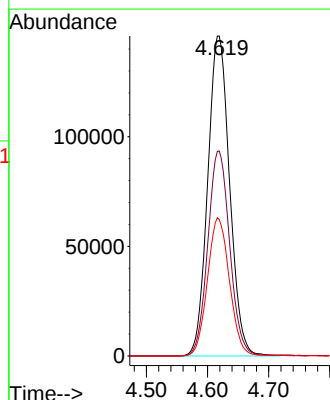
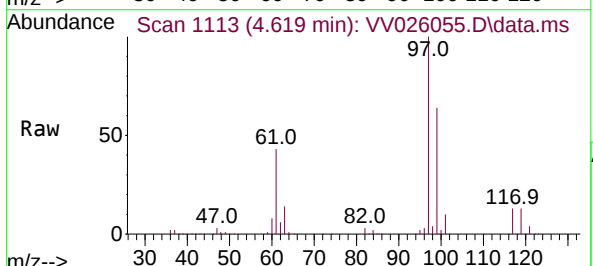
Tgt Ion: 97 Resp: 363603

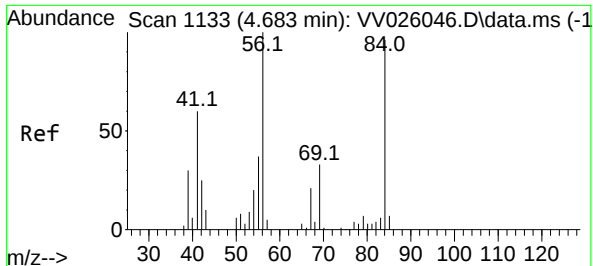
Ion Ratio Lower Upper

97 100

99 64.3 51.4 77.0

61 43.4 34.9 52.3





#30

Cyclohexane

Concen: 0.090 ug/L

RT: 4.687 min Scan# 1112

Delta R.T. 0.003 min

Lab File: VV026055.D

Acq: 09 Jun 2022 15:21

Instrument :

MSVOA_V

ClientSampleId :

EXYW2

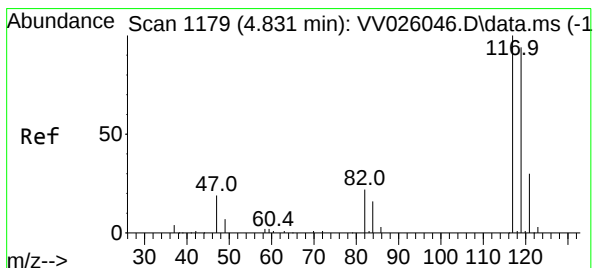
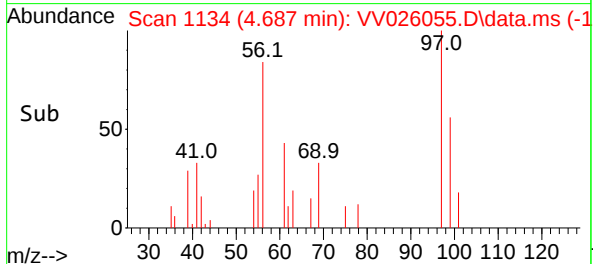
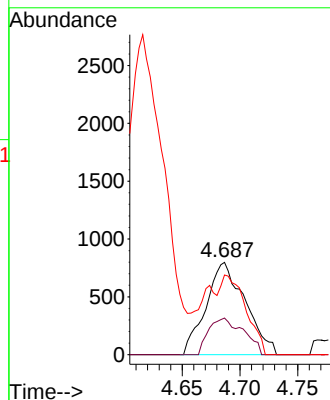
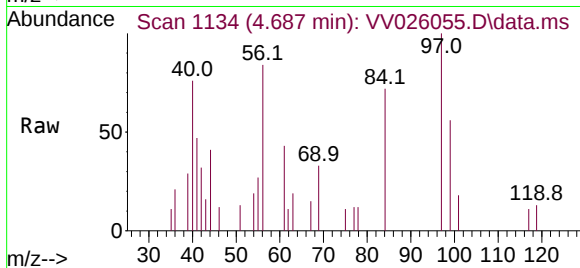
Tgt Ion: 56 Resp: 1888

Ion Ratio Lower Upper

56 100

69 35.2 25.1 37.7

84 56.0 72.2 108.4#



#31

Carbon tetrachloride

Concen: 2.306 ug/L

RT: 4.616 min Scan# 1112

Delta R.T. -0.215 min

Lab File: VV026055.D

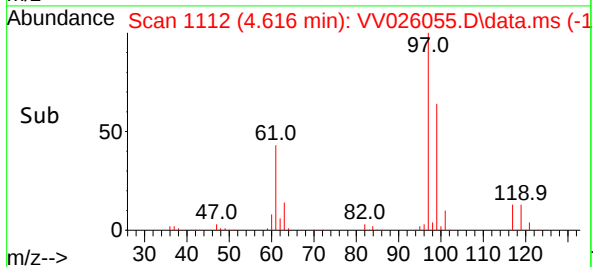
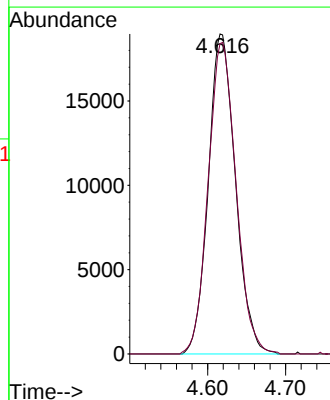
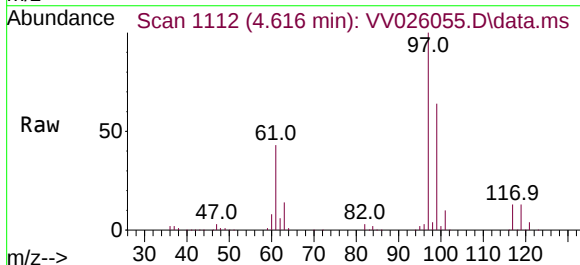
Acq: 09 Jun 2022 15:21

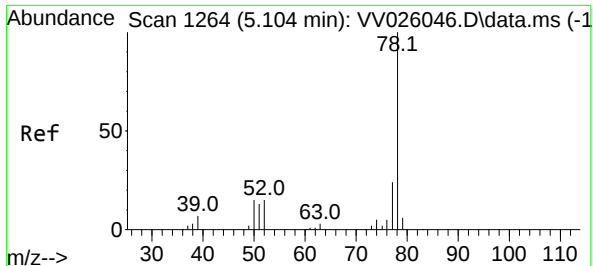
Tgt Ion: 117 Resp: 45920

Ion Ratio Lower Upper

117 100

119 99.9 78.7 118.1

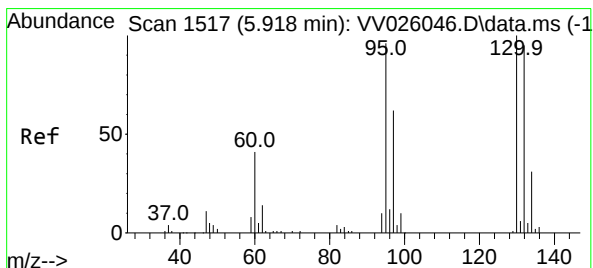
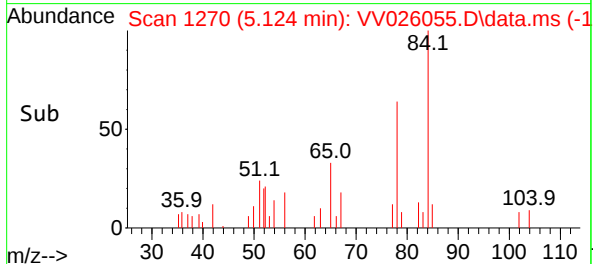
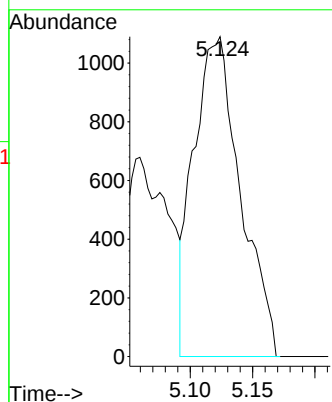
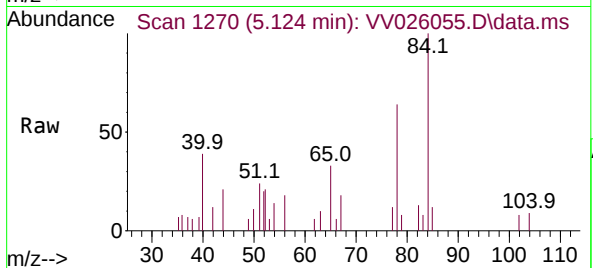




#33
Benzene
Concen: 0.049 ug/L
RT: 5.124 min Scan# 11
Delta R.T. 0.019 min
Lab File: VV026055.D
Acq: 09 Jun 2022 15:21

Instrument :
MSVOA_V
ClientSampleId :
EXYW2

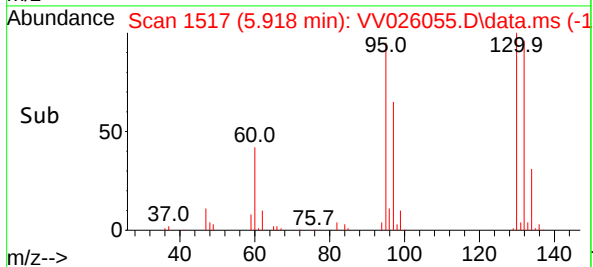
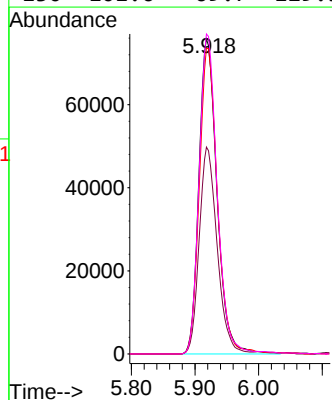
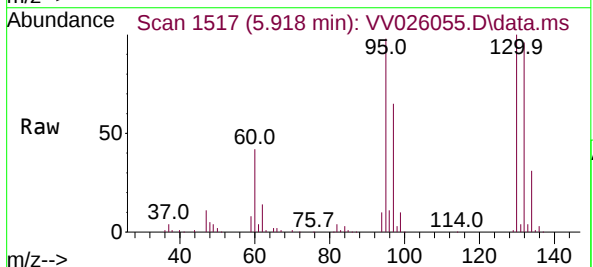
Tgt Ion: 78 Resp: 2843

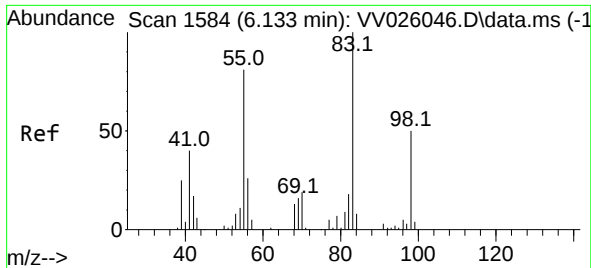


#34
Trichloroethene
Concen: 9.893 ug/L
RT: 5.918 min Scan# 1517
Delta R.T. 0.000 min
Lab File: VV026055.D
Acq: 09 Jun 2022 15:21

Tgt Ion: 95 Resp: 150099

Ion	Ratio	Lower	Upper
95	100		
97	65.7	44.0	81.6
132	97.0	67.5	125.4
130	101.6	69.7	129.5

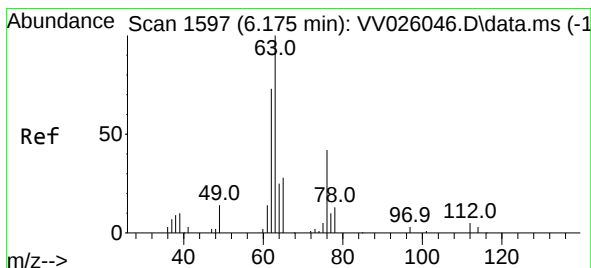
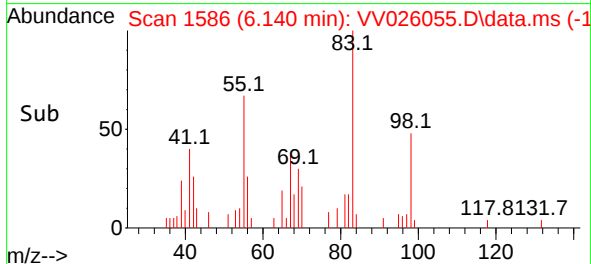
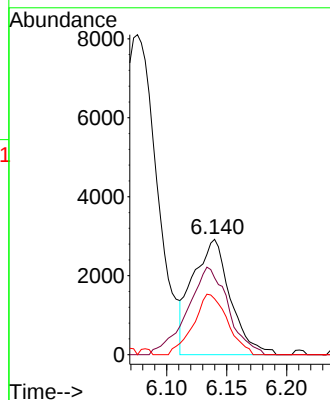
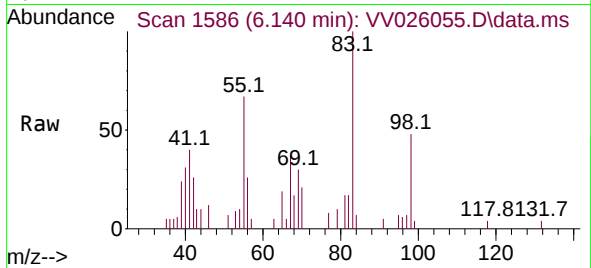




#35
Methylcyclohexane
Concen: 0.272 ug/L
RT: 6.140 min Scan# 11
Delta R.T. 0.007 min
Lab File: VV026055.D
Acq: 09 Jun 2022 15:21

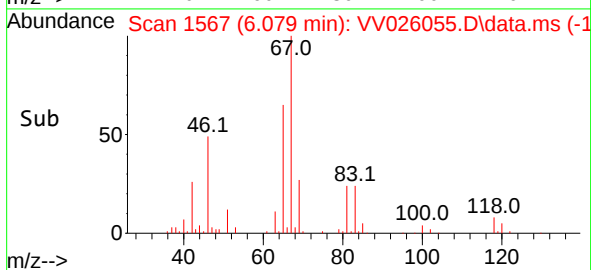
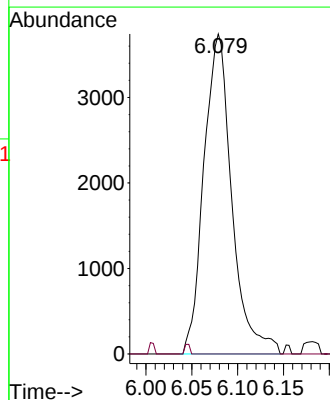
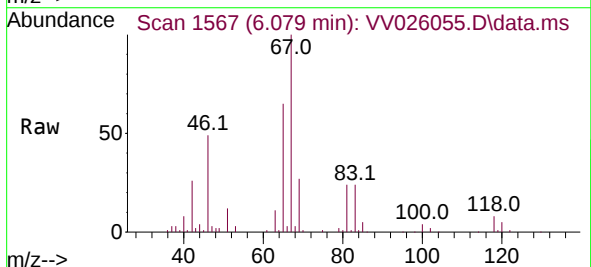
Instrument :
MSVOA_V
ClientSampleId :
EXYW2

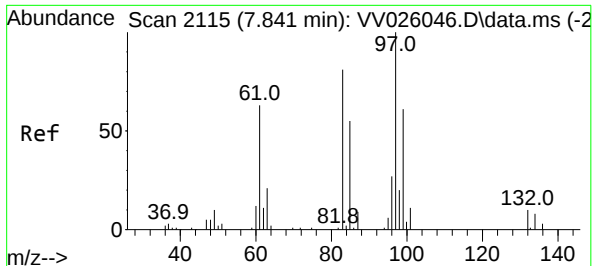
Tgt Ion: 83 Resp: 6367
Ion Ratio Lower Upper
83 100
55 82.1 59.4 89.0
98 47.2 38.9 58.3



#37
1,2-Dichloropropane
Concen: 0.564 ug/L
RT: 6.079 min Scan# 1567
Delta R.T. -0.096 min
Lab File: VV026055.D
Acq: 09 Jun 2022 15:21

Tgt Ion: 63 Resp: 7941
Ion Ratio Lower Upper
63 100
112 0.5 3.8 5.6#





#45

1,1,2-Trichloroethane

Concen: 0.307 ug/L

RT: 7.793 min Scan# 2115

Delta R.T. -0.048 min

Lab File: VV026055.D

Acq: 09 Jun 2022 15:21

Instrument :

MSVOA_V

ClientSampleId :

EXYW2

Tgt Ion: 97 Resp: 2805

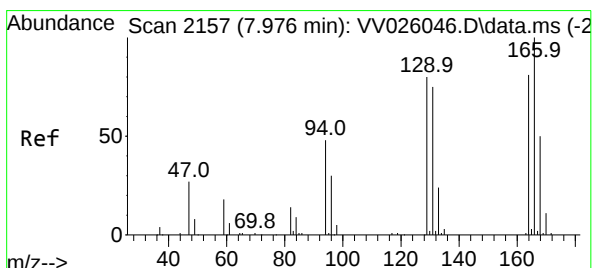
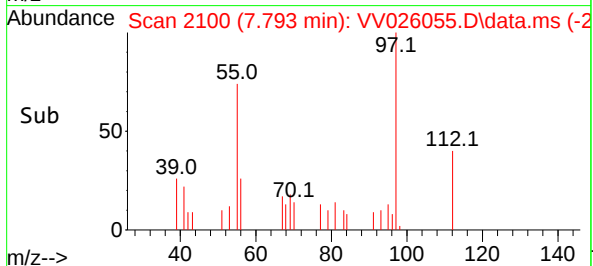
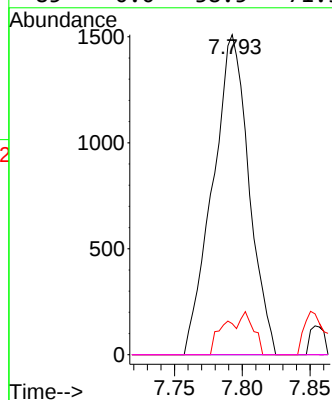
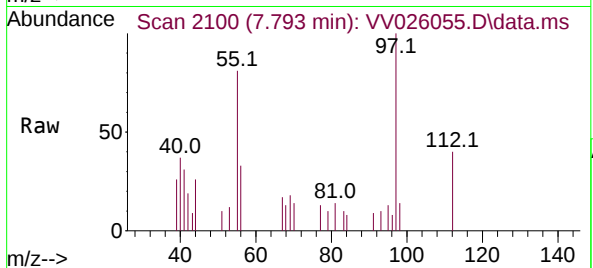
Ion Ratio Lower Upper

97 100

99 0.0 43.5 80.7#

83 9.7 59.6 110.8#

85 0.0 38.5 71.5#



#47

Tetrachloroethene

Concen: 1.036 ug/L

RT: 7.979 min Scan# 2158

Delta R.T. 0.003 min

Lab File: VV026055.D

Acq: 09 Jun 2022 15:21

Tgt Ion:164 Resp: 12165

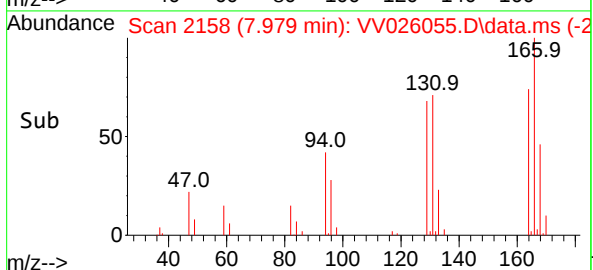
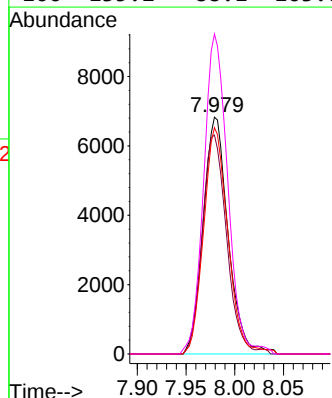
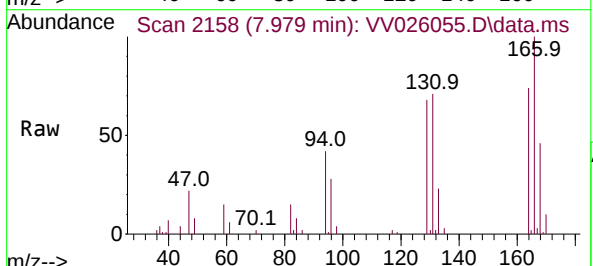
Ion Ratio Lower Upper

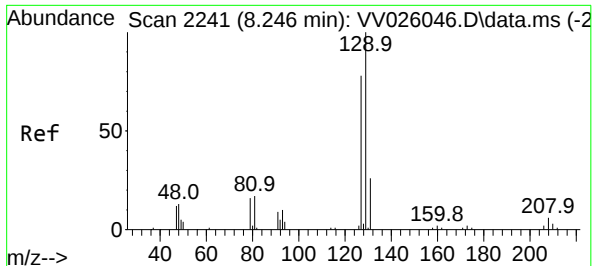
164 100

129 92.5 68.3 126.9

131 95.6 66.5 123.5

166 135.2 88.1 163.7





#49

Dibromochloromethane

Concen: 1.036 ug/L

RT: 7.979 min Scan# 2158

Delta R.T. -0.267 min

Lab File: VV026055.D

Acq: 09 Jun 2022 15:21

Instrument :

MSVOA_V

ClientSampleId :

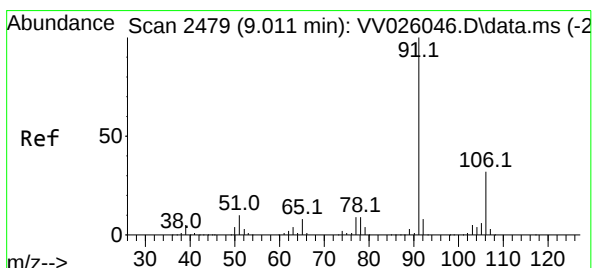
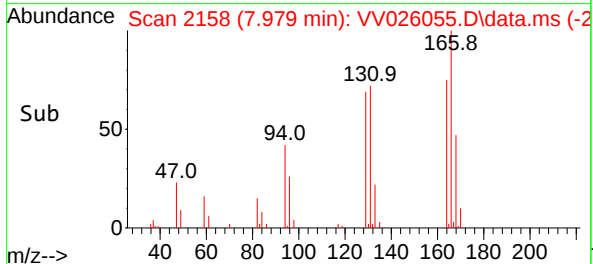
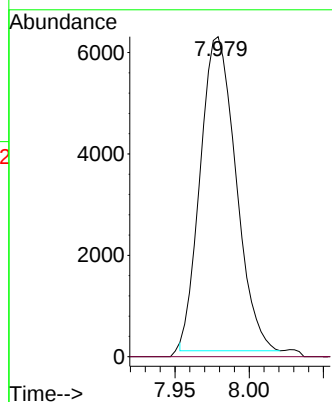
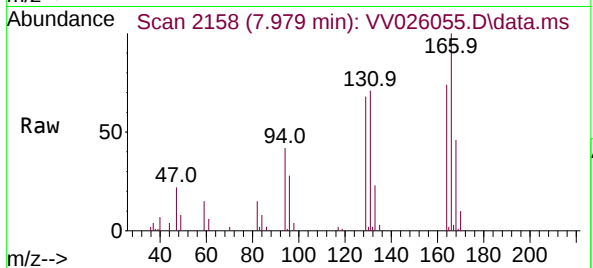
EXYW2

Tgt Ion:129 Resp: 10339

Ion Ratio Lower Upper

129 100

127 0.0 55.9 103.7#



#52

Ethylbenzene

Concen: 0.069 ug/L

RT: 9.021 min Scan# 2482

Delta R.T. 0.010 min

Lab File: VV026055.D

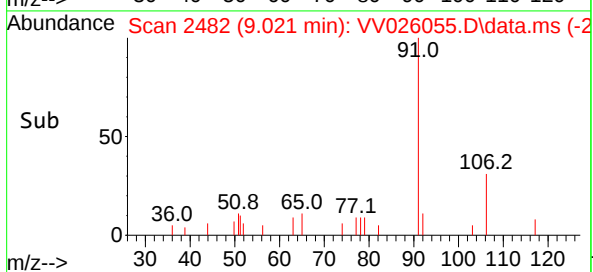
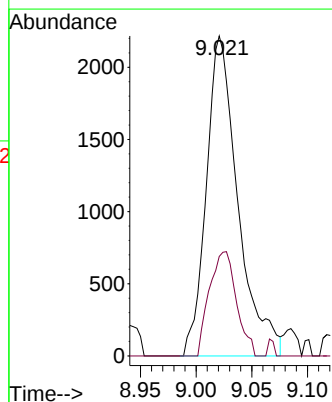
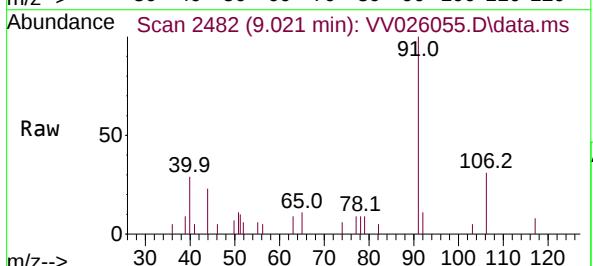
Acq: 09 Jun 2022 15:21

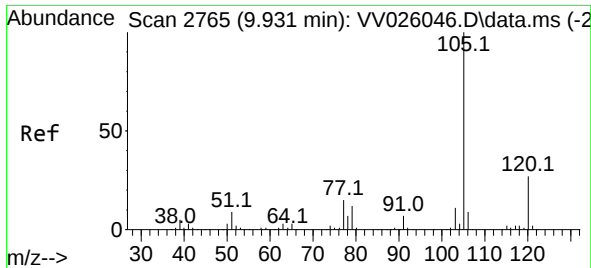
Tgt Ion: 91 Resp: 4381

Ion Ratio Lower Upper

91 100

106 31.1 21.8 40.6

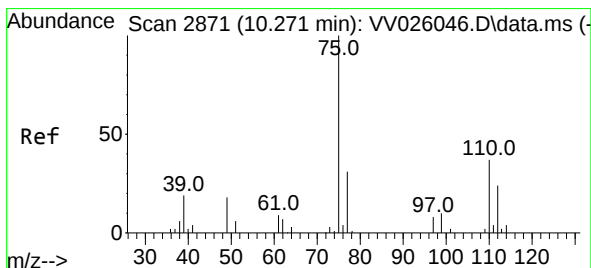
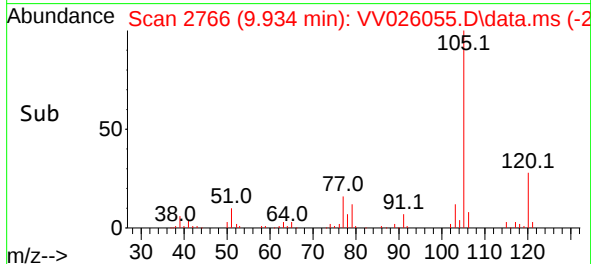
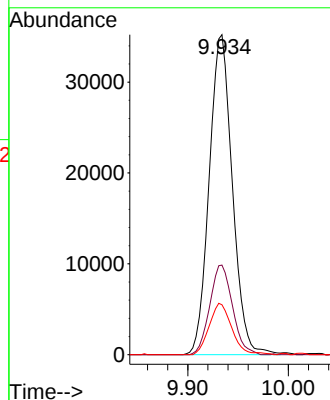
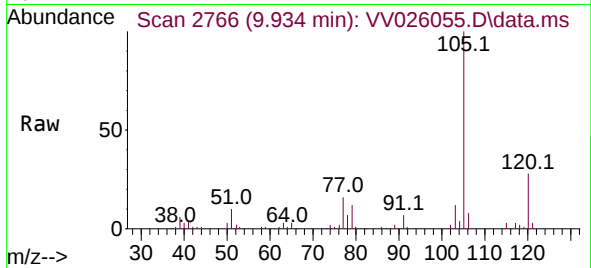




#60
Isopropylbenzene
Concen: 1.017 ug/L
RT: 9.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV026055.D
Acq: 09 Jun 2022 15:21

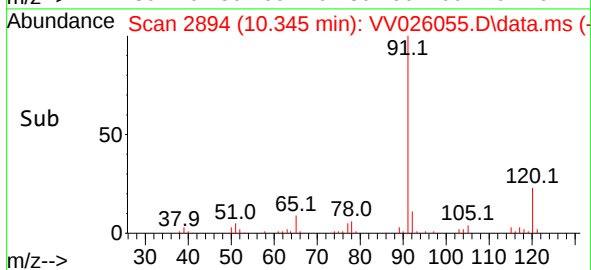
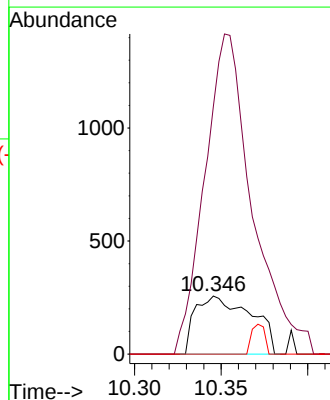
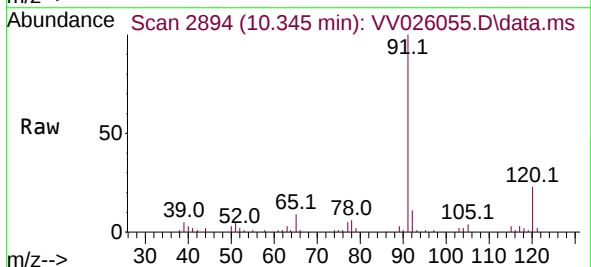
Instrument :
MSVOA_V
ClientSampleId :
EXYW2

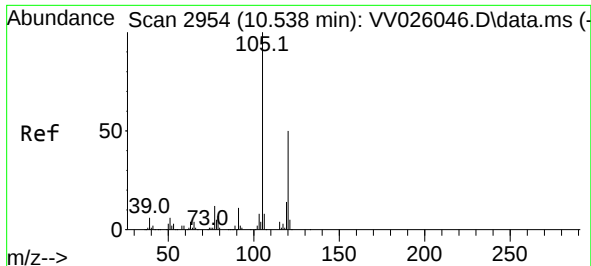
Tgt Ion:105 Resp: 56368
Ion Ratio Lower Upper
105 100
120 27.4 21.3 31.9
77 15.7 12.4 18.6



#61
1,2,3-Trichloropropane
Concen: 0.089 ug/L
RT: 10.345 min Scan# 2894
Delta R.T. 0.074 min
Lab File: VV026055.D
Acq: 09 Jun 2022 15:21

Tgt Ion: 75 Resp: 577
Ion Ratio Lower Upper
75 100
77 469.2 26.6 40.0#
110 12.1 32.0 48.0#





#62

1,3,5-Trimethylbenzene

Concen: 0.050 ug/L

RT: 10.355 min Scan# 21

Delta R.T. -0.183 min

Lab File: VV026055.D

Acq: 09 Jun 2022 15:21

Instrument :

MSVOA_V

ClientSampleId :

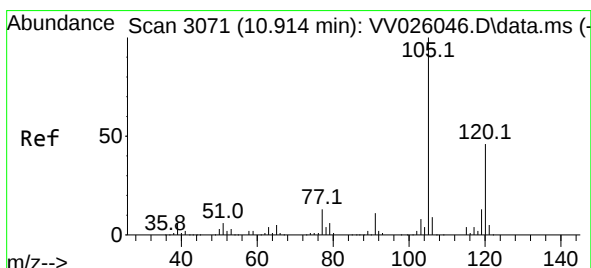
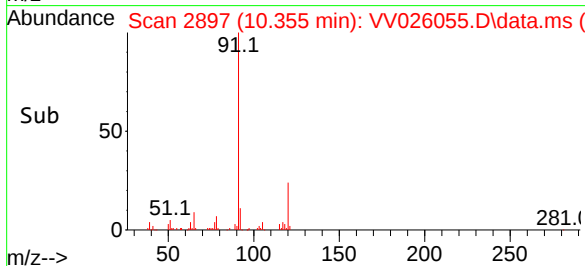
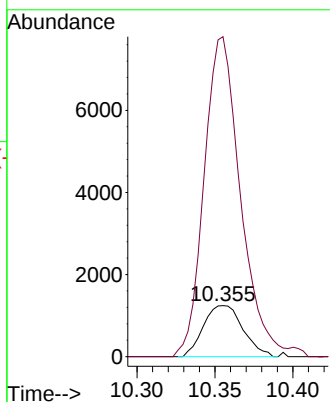
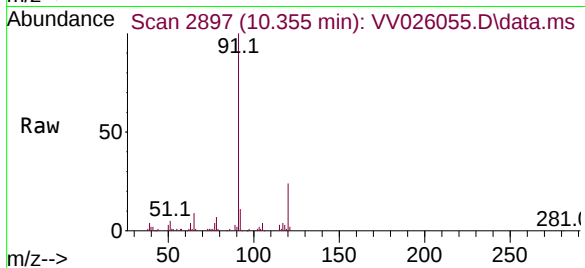
EXYW2

Tgt Ion:105 Resp: 2194

Ion Ratio Lower Upper

105 100

120 580.5 38.8 58.2#



#63

1,2,4-Trimethylbenzene

Concen: 1.317 ug/L

RT: 11.088 min Scan# 3125

Delta R.T. 0.174 min

Lab File: VV026055.D

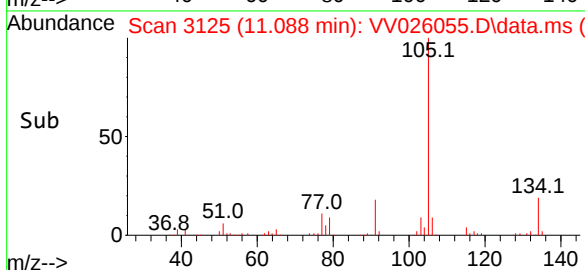
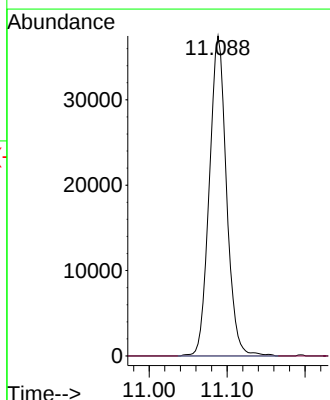
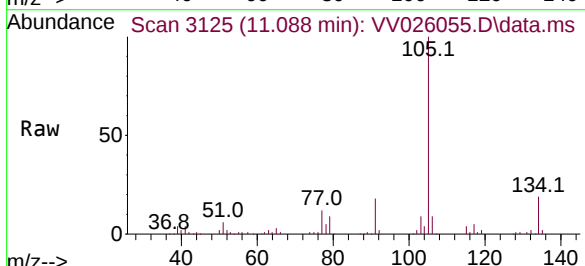
Acq: 09 Jun 2022 15:21

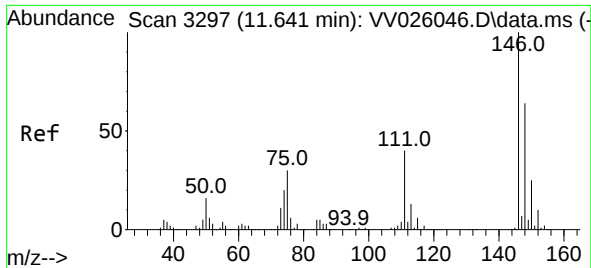
Tgt Ion:105 Resp: 57578

Ion Ratio Lower Upper

105 100

120 1.3 36.7 55.1#

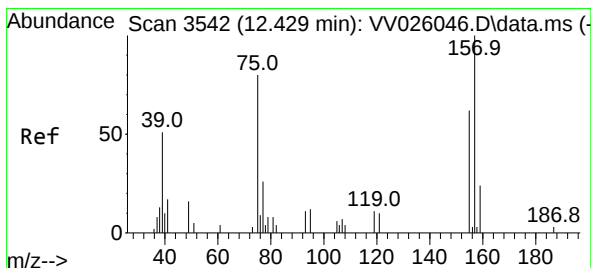
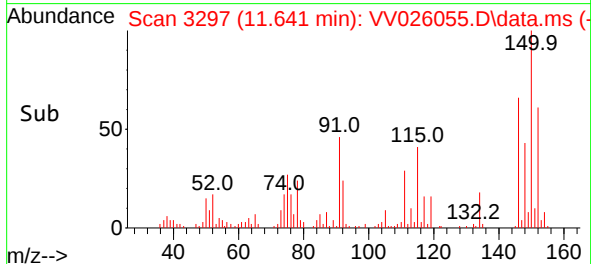
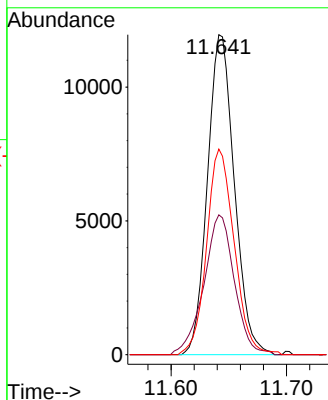
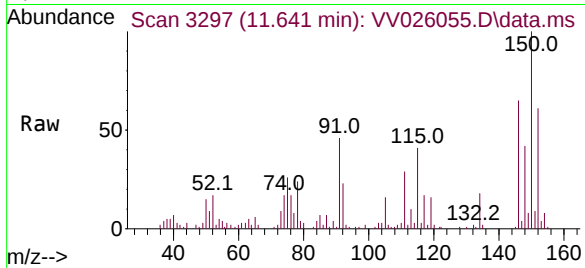




#67
1,2-Dichlorobenzene
Concen: 0.830 ug/L
RT: 11.641 min Scan# 31
Delta R.T. 0.000 min
Lab File: VV026055.D
Acq: 09 Jun 2022 15:21

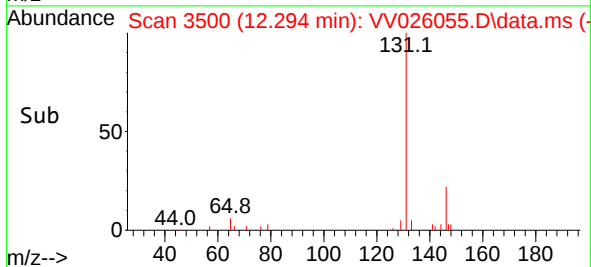
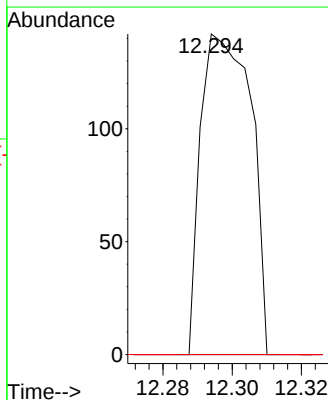
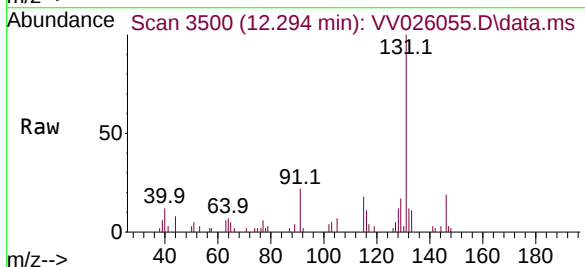
Instrument :
MSVOA_V
ClientSampleId :
EXYW2

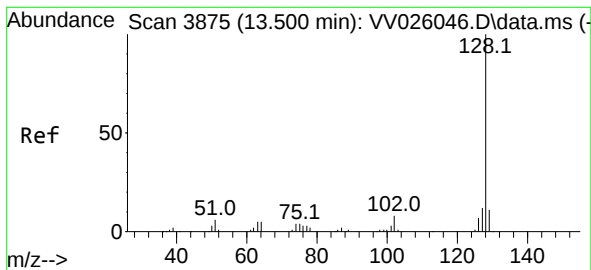
Tgt Ion:146 Resp: 19334
Ion Ratio Lower Upper
146 100
111 43.7 33.9 50.9
148 64.3 50.6 76.0



#68
1,2-Dibromo-3-chloropropane
Concen: 0.124 ug/L
RT: 12.294 min Scan# 3500
Delta R.T. -0.135 min
Lab File: VV026055.D
Acq: 09 Jun 2022 15:21

Tgt Ion: 75 Resp: 143
Ion Ratio Lower Upper
75 100
155 0.0 68.0 102.0#
157 0.0 89.7 134.5#





#71

Naphthalene

Concen: 1.324 ug/L

RT: 13.503 min Scan# 3876

Delta R.T. 0.003 min

Lab File: VV026055.D

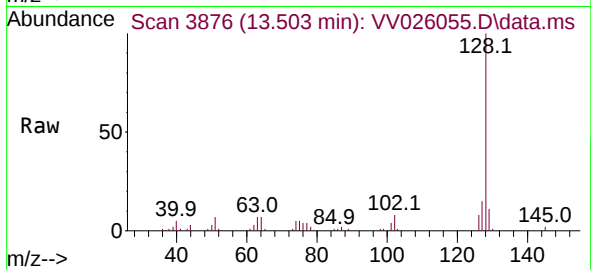
Acq: 09 Jun 2022 15:21

Instrument :

MSVOA_V

ClientSampleId :

EXYW2



Tgt Ion:128 Resp: 26737

Ion Ratio Lower Upper

128 100

129 12.2 8.7 13.1

127 13.5 10.3 15.5

