

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

Instrument :
 MSVOA_V
 ClientSampleId :
 EXYT4

Quant Time: Jun 16 02:50:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM061423WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 16 02:44:48 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.542	114	232905	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	231065	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.191	152	141400	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	63005	40.647	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	81.300%
7) Chloroethane-d5	1.535	69	60440	44.688	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.380%
11) 1,1-Dichloroethene-d2	2.066	65	34327	42.969	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.940%
21) 2-Butanone-d5	3.818	46	128909	102.706	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.710%
24) Chloroform-d	4.262	84	166865	42.984	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.960%
26) 1,2-Dichloroethane-d4	4.950	65	109378	45.033	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.060%
32) Benzene-d6	4.969	84	294351	45.257	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.520%
36) 1,2-Dichloropropane-d6	5.995	67	104451	45.311	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.620%
41) Toluene-d8	7.249	98	256110	42.911	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.820%
43) trans-1,3-Dichloroprop...	7.558	79	51451	45.784	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.560%
47) 2-Hexanone-d5	8.030	63	101370	111.374	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	111.370%
56) 1,1,2,2-Tetrachloroeth...	10.159	84	160671	46.177	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.360%
66) 1,2-Dichlorobenzene-d4	11.567	152	128972	47.850	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.700%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.291	62	11604	5.022	ug/L	90
8) Chloroethane	1.288	64	4706	3.153	ug/L	87
9) Trichlorofluoromethane	1.722	101	50394	13.108	ug/L	97
16) Methylene chloride	2.455	84	4453	2.061	ug/L	95
17) trans-1,2-Dichloroethene	2.706	96	145951	81.135	ug/L	98
19) 1,1-Dichloroethane	3.121	63	3582373	922.708	ug/L	99
20) cis-1,2-Dichloroethene	3.828	96	21862636	11246.091	ug/L	78
22) 2-Butanone	3.905	43	5912	3.821	ug/L #	51
25) Chloroform	4.288	83	26734	6.624	ug/L	98
27) 1,2-Dichloroethane	5.056	62	24990	8.023	ug/L #	86
29) Cyclohexane	4.596	56	5533	1.841	ug/L #	32
31) Carbon tetrachloride	4.539	117	4339346	1321.977	ug/L	99
33) Benzene	5.021	78	77217	10.037	ug/L	100
34) Trichloroethene	5.841	95	136093	66.203	ug/L	97
35) Methylcyclohexane	6.063	83	13749	4.539	ug/L	98
40) 4-Methyl-2-pentanone	7.175	43	4176	1.574	ug/L #	76
42) Toluene	7.320	91	1509197	189.209	ug/L	99
45) 1,1,2-Trichloroethane	7.780	97	15238	7.141	ug/L	97
46) Tetrachloroethene	7.911	164	114701	71.092	ug/L	96

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

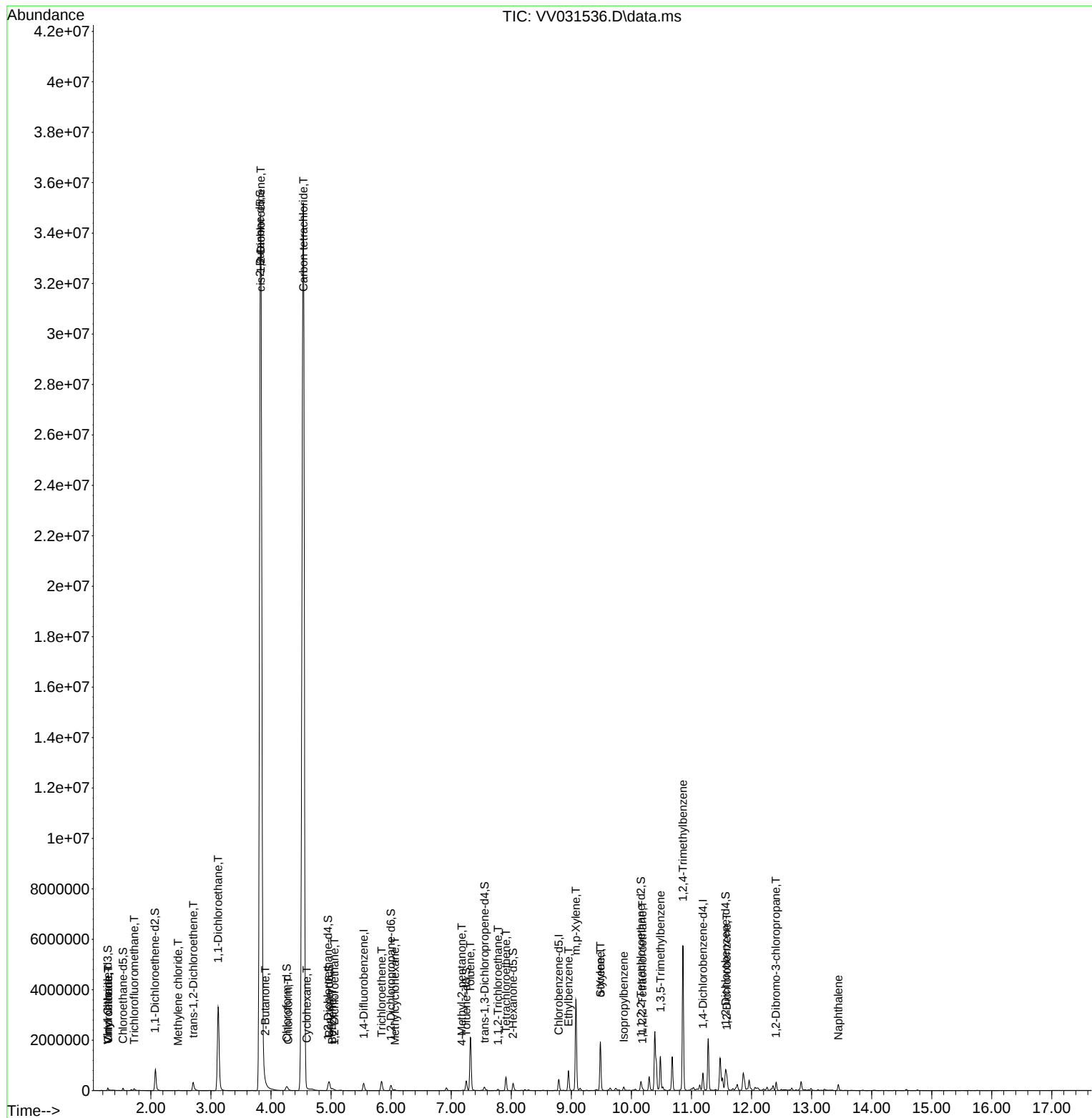
52) Ethylbenzene	8.953	91	523728	58.844	ug/L	99
53) m,p-Xylene	9.075	106	913666	280.318	ug/L	96
54) o-Xylene	9.484	106	461680	149.262	ug/L	100
55) Styrene	9.484	104	24784	4.487	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.185	83	9162	2.628	ug/L #	66
60) Isopropylbenzene	9.873	105	84099	9.329	ug/L	100
62) 1,3,5-Trimethylbenzene	10.484	105	702908	94.344	ug/L	99
63) 1,2,4-Trimethylbenzene	10.860	105	3043520	438.418	ug/L	98
67) 1,2-Dichlorobenzene	11.587	146	7764	1.702	ug/L	89
68) 1,2-Dibromo-3-chloropr...	12.406	75	1514	1.826	ug/L #	3
71) Naphthalene	13.445	128	168452	22.032	ug/L	99

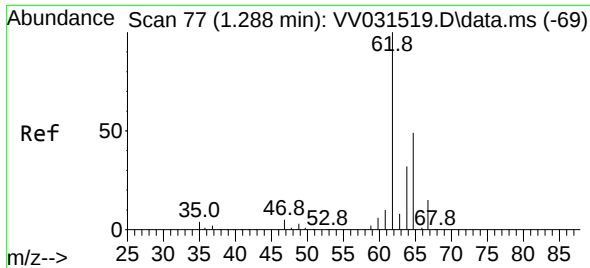
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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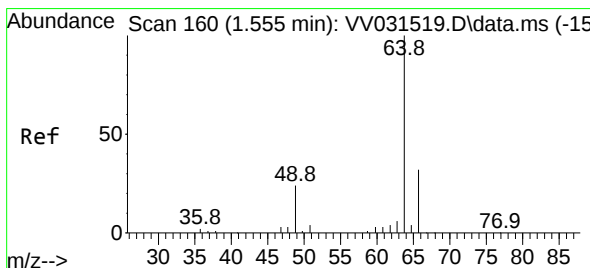
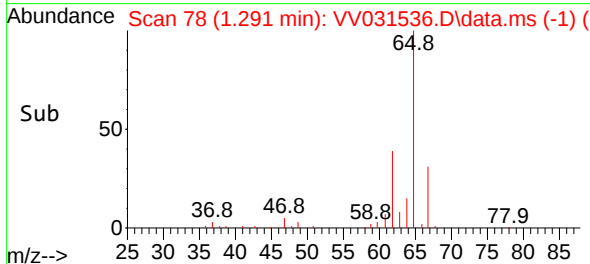
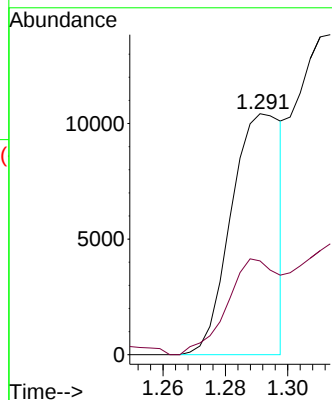
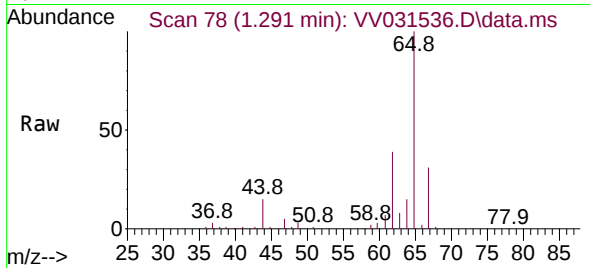




#5
 Vinyl chloride
 Concen: 5.022 ug/L
 RT: 1.291 min Scan# 77
 Delta R.T. 0.003 min
 Lab File: VV031536.D
 Acq: 15 Jun 2023 17:09

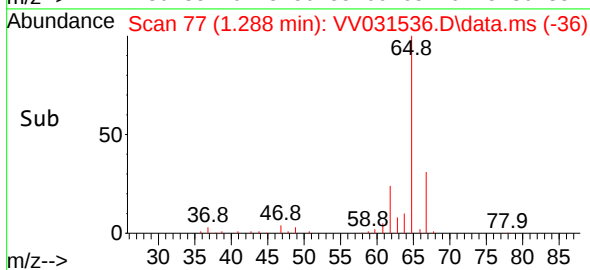
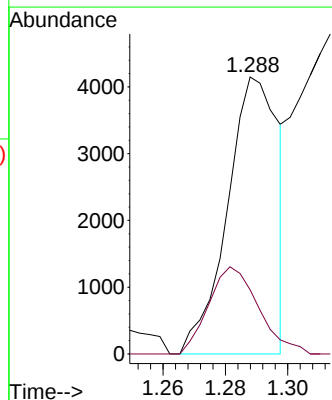
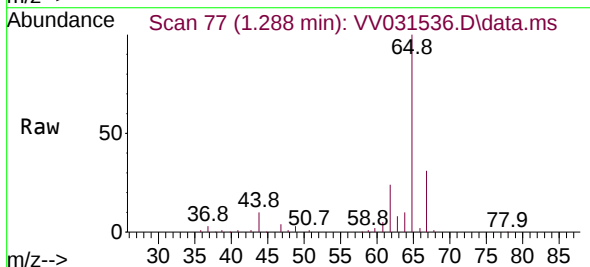
Instrument :
 MSVOA_V
 ClientSampleId :
 EXYT4

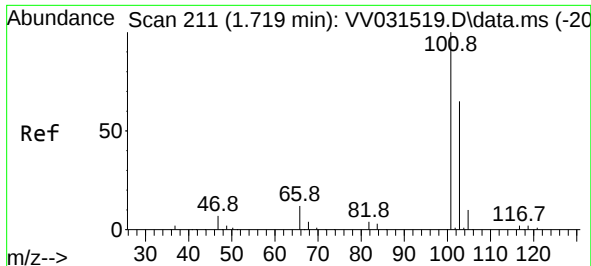
Tgt Ion: 62 Resp: 11604
 Ion Ratio Lower Upper
 62 100
 64 38.9 23.4 43.4



#8
 Chloroethane
 Concen: 3.153 ug/L
 RT: 1.288 min Scan# 77
 Delta R.T. -0.267 min
 Lab File: VV031536.D
 Acq: 15 Jun 2023 17:09

Tgt Ion: 64 Resp: 4706
 Ion Ratio Lower Upper
 64 100
 66 23.1 21.0 39.0

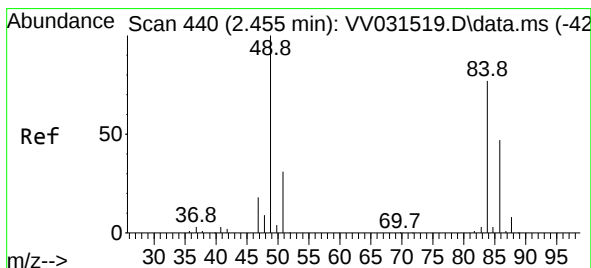
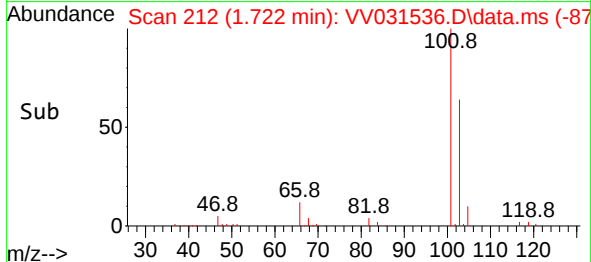
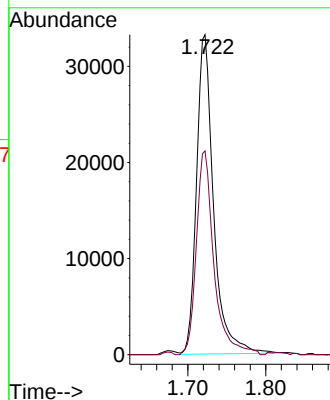
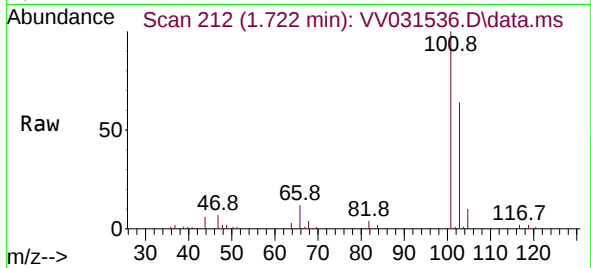




#9
Trichlorofluoromethane
Concen: 13.108 ug/L
RT: 1.722 min Scan# 211
Delta R.T. 0.003 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

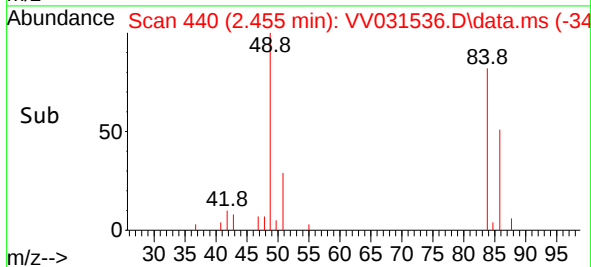
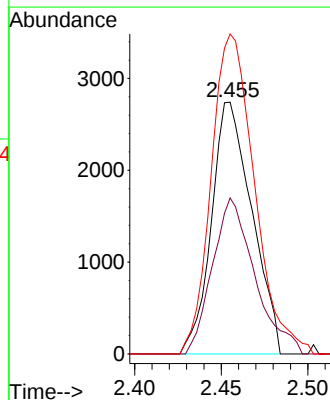
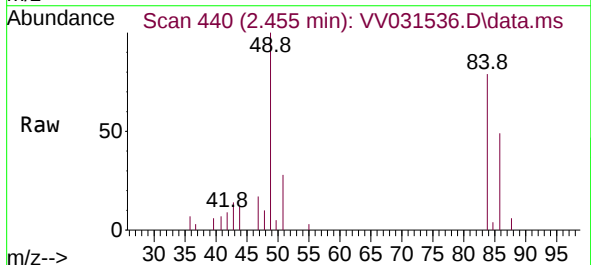
Instrument :
MSVOA_V
ClientSampleId :
EXYT4

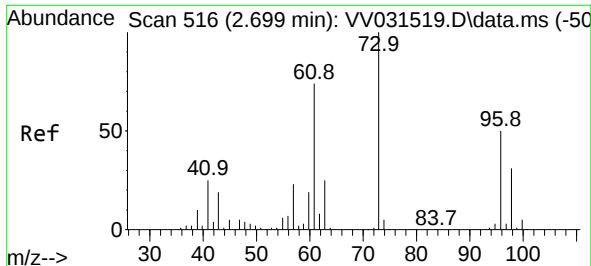
Tgt Ion:101 Resp: 50394
Ion Ratio Lower Upper
101 100
103 65.8 50.9 76.3



#16
Methylene chloride
Concen: 2.061 ug/L
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

Tgt Ion: 84 Resp: 4453
Ion Ratio Lower Upper
84 100
86 59.2 45.8 85.0
49 127.1 92.1 171.1

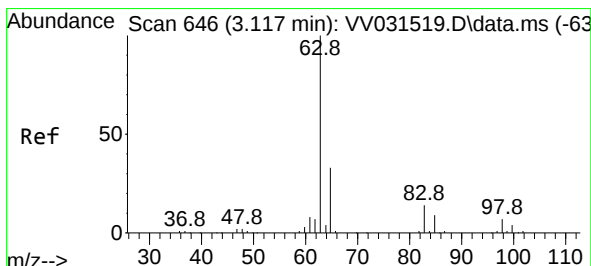
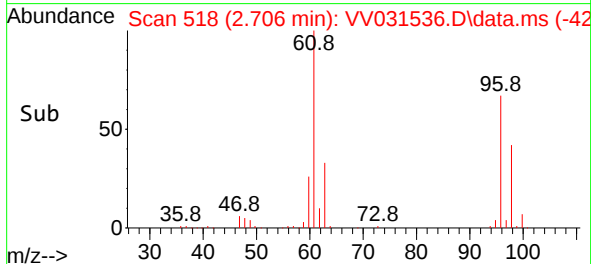
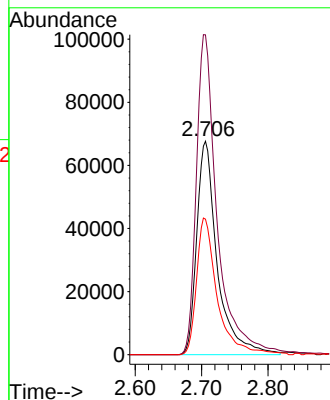
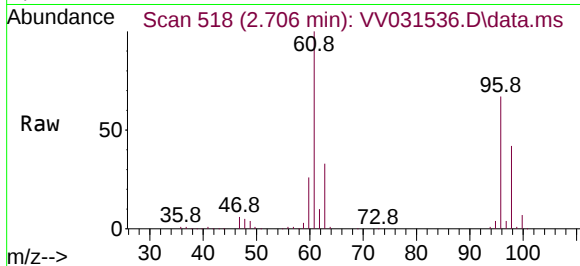




#17
trans-1,2-Dichloroethene
Concen: 81.135 ug/L
RT: 2.706 min Scan# 516
Delta R.T. 0.007 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

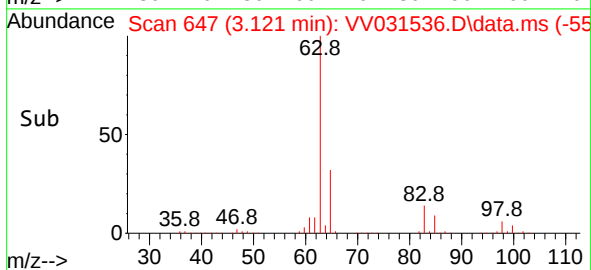
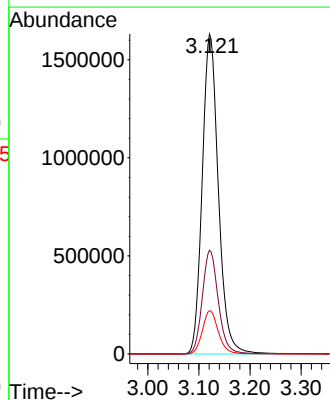
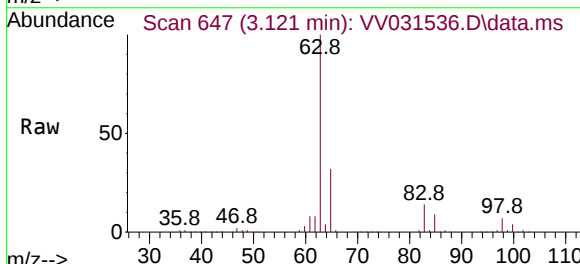
Instrument :
MSVOA_V
ClientSampleId :
EXYT4

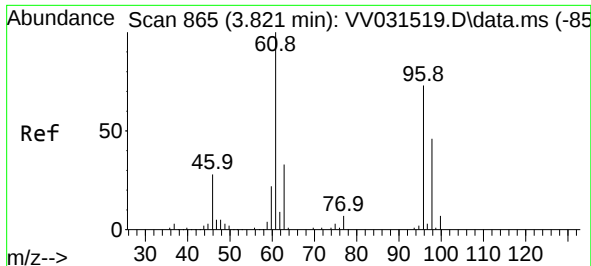
Tgt Ion: 96 Resp: 145951
Ion Ratio Lower Upper
96 100
61 149.9 102.5 190.3
98 63.5 44.1 81.9



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

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



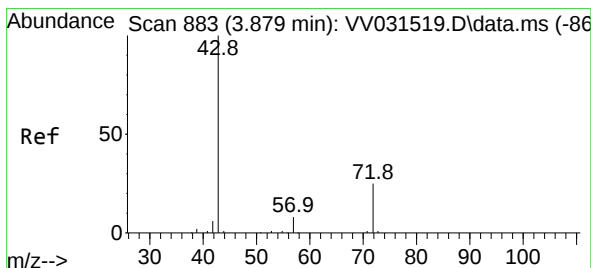
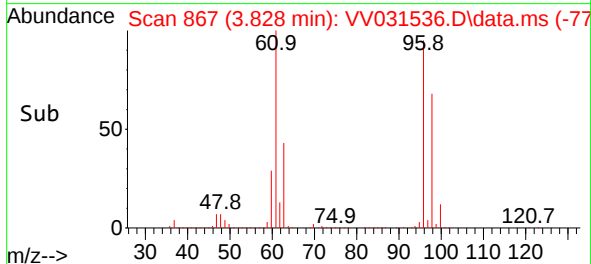
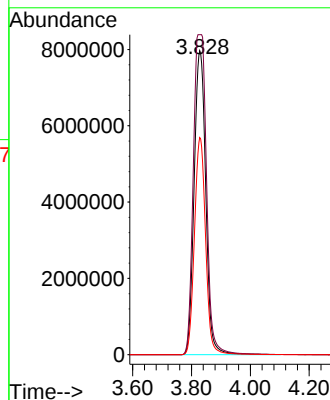
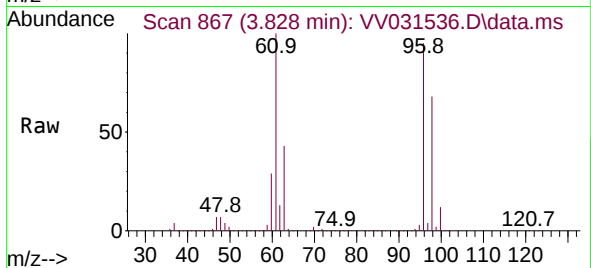


#20
 cis-1,2-Dichloroethene
 Concen: 11246.091 ug/L
 RT: 3.828 min Scan# 80
 Delta R.T. 0.007 min
 Lab File: VV031536.D
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 EXYT4

Tgt Ion: 96 Resp:21862636

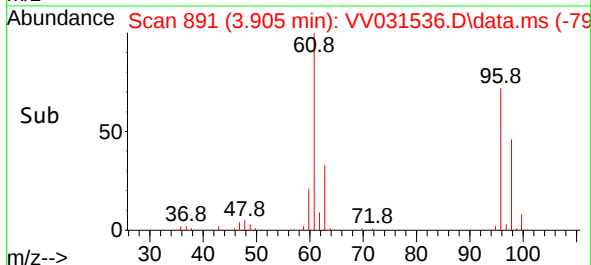
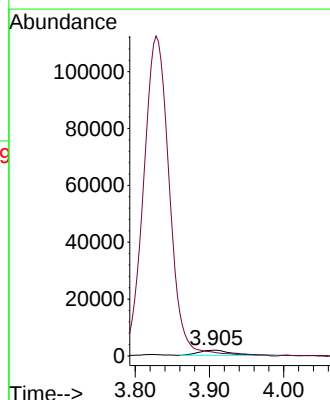
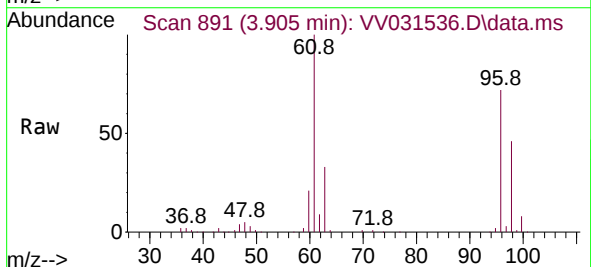
Ion	Ratio	Lower	Upper
96	100		
61	105.3	98.6	183.0
98	71.4	45.7	84.9

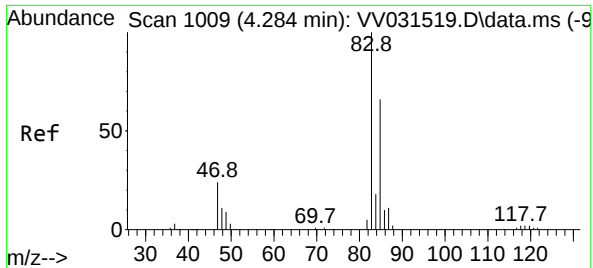


#22
 2-Butanone
 Concen: 3.821 ug/L
 RT: 3.905 min Scan# 891
 Delta R.T. 0.026 min
 Lab File: VV031536.D
 Acq: 15 Jun 2023 17:09

Tgt Ion: 43 Resp: 5912

Ion	Ratio	Lower	Upper
43	100		
72	0.0	12.2	36.4#

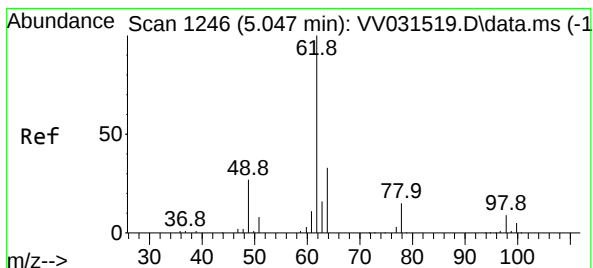
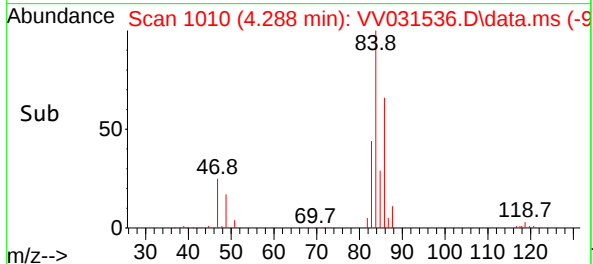
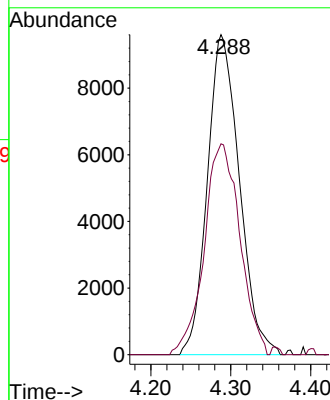
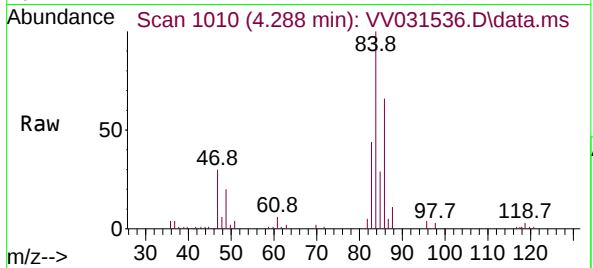




#25
Chloroform
Concen: 6.624 ug/L
RT: 4.288 min Scan# 1009
Delta R.T. 0.003 min
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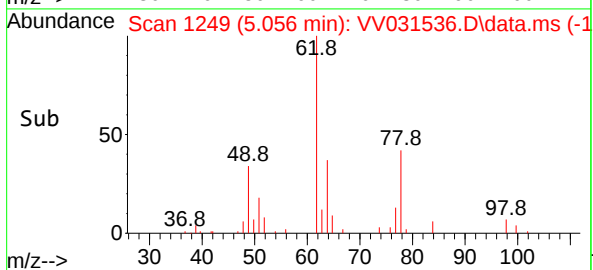
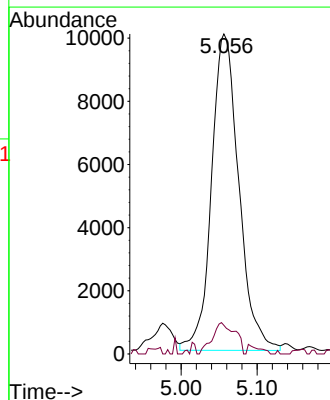
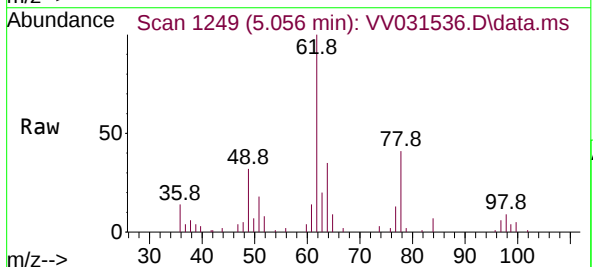
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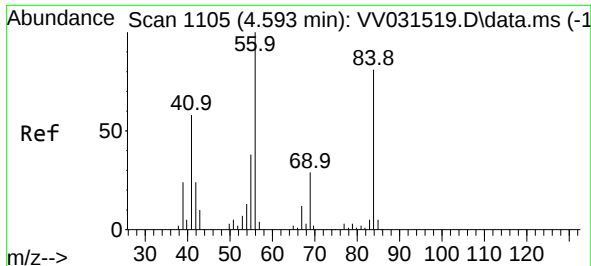
Tgt Ion: 83 Resp: 26734
Ion Ratio Lower Upper
83 100
85 65.9 45.3 84.1



#27
1,2-Dichloroethane
Concen: 8.023 ug/L
RT: 5.056 min Scan# 1249
Delta R.T. 0.010 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

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

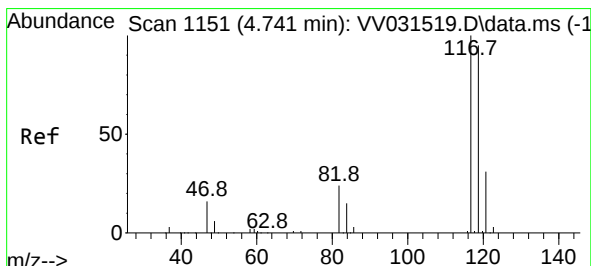
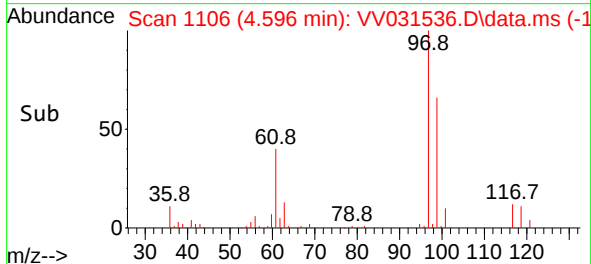
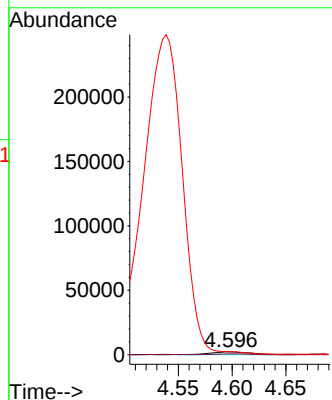
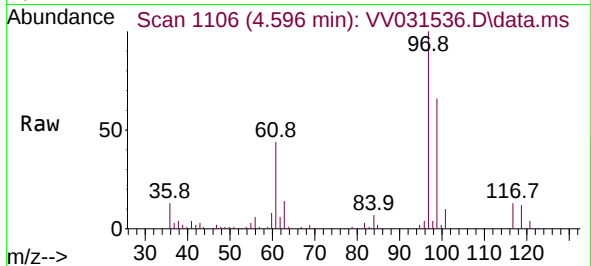




#29
Cyclohexane
Concen: 1.841 ug/L
RT: 4.596 min Scan# 1105
Delta R.T. 0.003 min
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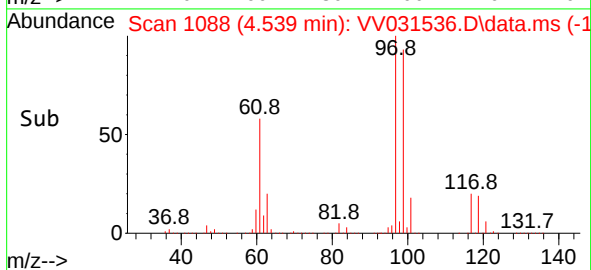
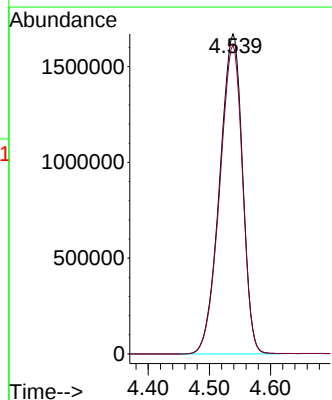
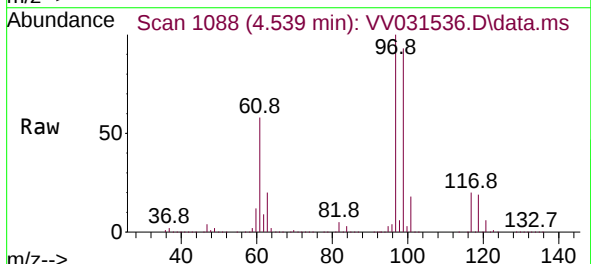
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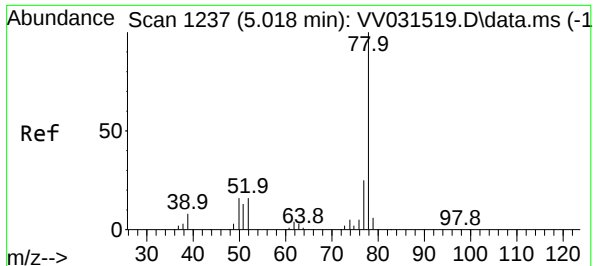
Tgt Ion: 56 Resp: 5533
Ion Ratio Lower Upper
56 100
69 26.0 24.3 36.5
84 1.0 65.0 97.6#



#31
Carbon tetrachloride
Concen: 1321.977 ug/L
RT: 4.539 min Scan# 1088
Delta R.T. -0.202 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

Tgt Ion: 117 Resp: 4339346
Ion Ratio Lower Upper
117 100
119 96.4 76.2 114.4

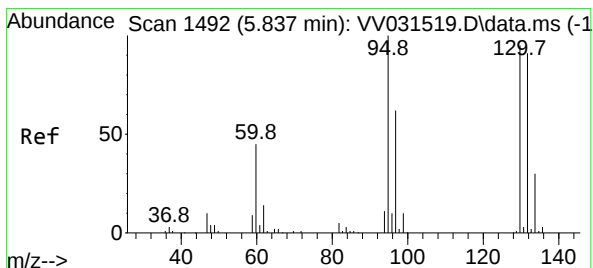
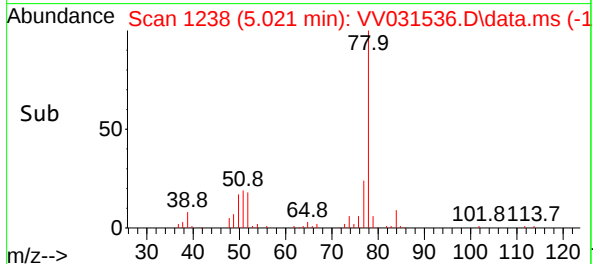
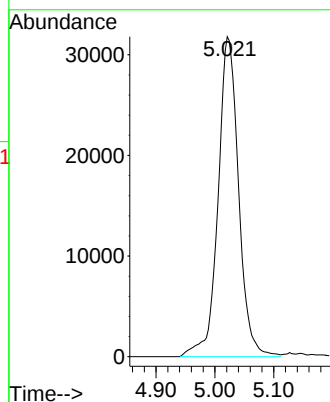
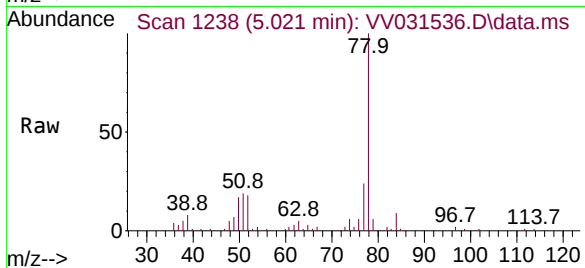




#33
Benzene
Concen: 10.037 ug/L
RT: 5.021 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

Instrument :
MSVOA_V
ClientSampleId :
EXYT4

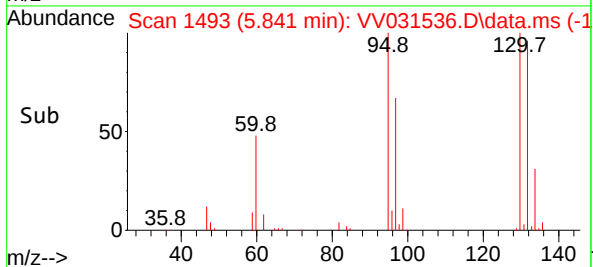
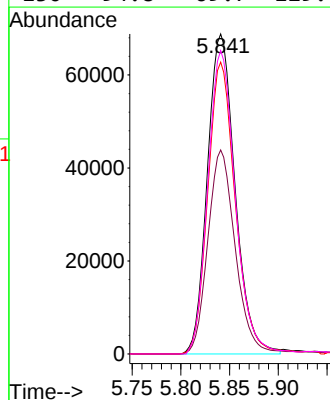
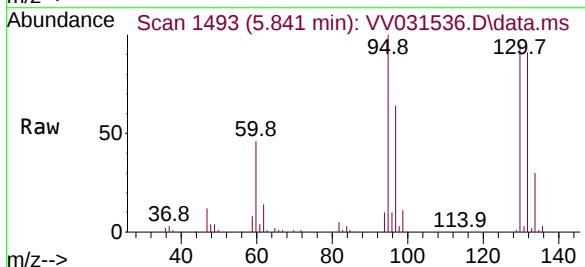
Tgt Ion: 78 Resp: 77217

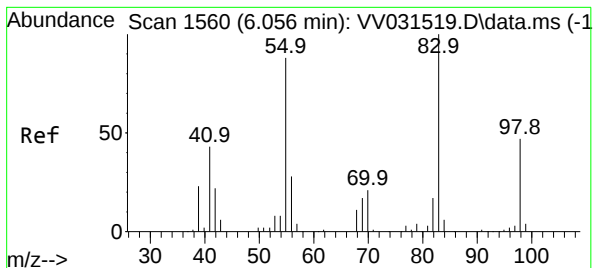


#34
Trichloroethene
Concen: 66.203 ug/L
RT: 5.841 min Scan# 1493
Delta R.T. 0.003 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

Tgt Ion: 95 Resp: 136093

Ion	Ratio	Lower	Upper
95	100		
97	66.6	46.8	86.8
132	91.2	66.4	123.2
130	94.8	69.7	129.4





#35

Methylcyclohexane

Concen: 4.539 ug/L

RT: 6.063 min Scan# 11

Delta R.T. 0.007 min

Lab File: VV031536.D

Acq: 15 Jun 2023 17:09

Instrument :

MSVOA_V

ClientSampleId :

EXYT4

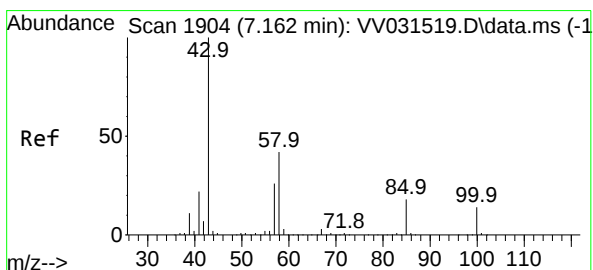
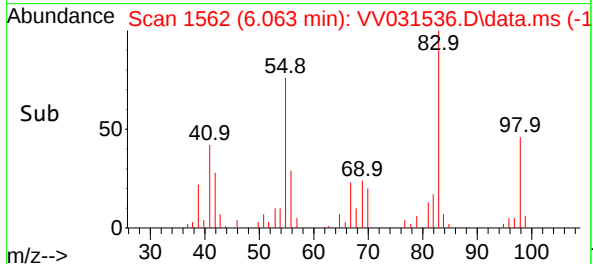
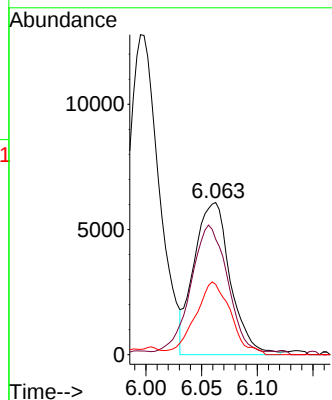
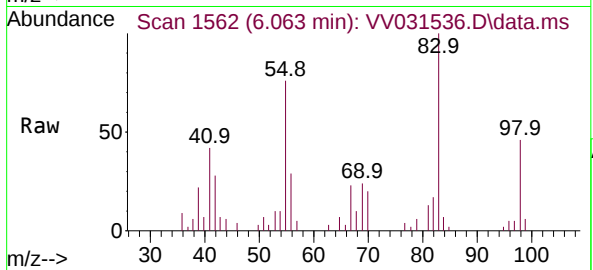
Tgt Ion: 83 Resp: 13749

Ion Ratio Lower Upper

83 100

55 87.8 68.7 103.1

98 46.8 37.0 55.4



#40

4-Methyl-2-pentanone

Concen: 1.574 ug/L

RT: 7.175 min Scan# 1908

Delta R.T. 0.013 min

Lab File: VV031536.D

Acq: 15 Jun 2023 17:09

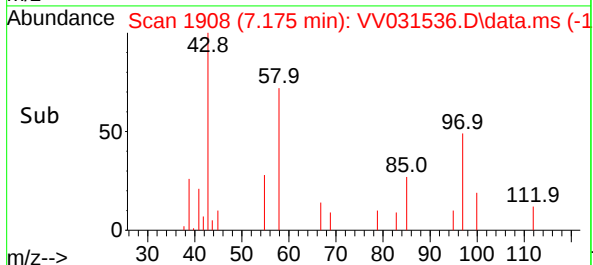
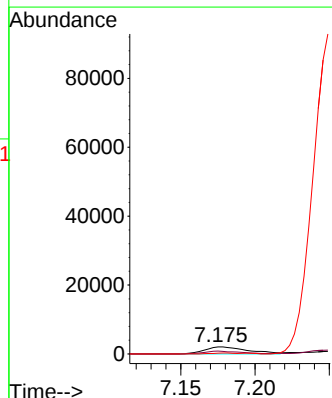
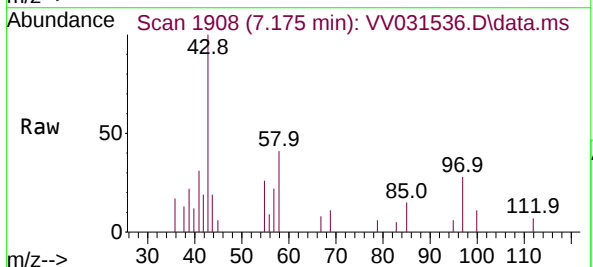
Tgt Ion: 43 Resp: 4176

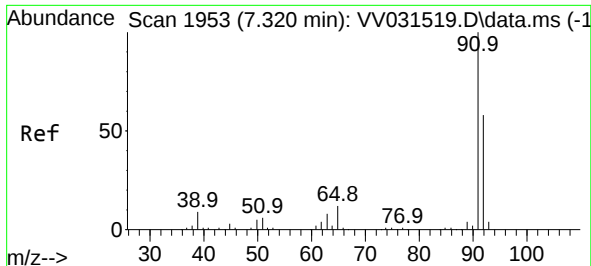
Ion Ratio Lower Upper

43 100

58 23.8 31.8 47.8#

100 7.1 11.1 16.7#





#42

Toluene

Concen: 189.209 ug/L

RT: 7.320 min Scan# 1953

Delta R.T. 0.000 min

Lab File: VV031536.D

Acq: 15 Jun 2023 17:09

Instrument :

MSVOA_V

ClientSampleId :

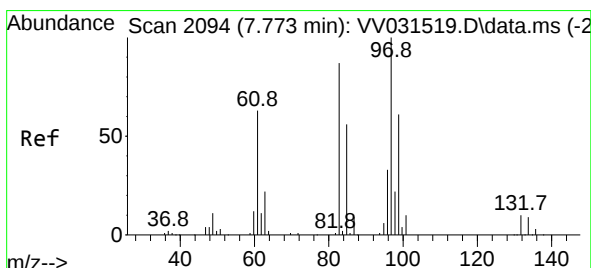
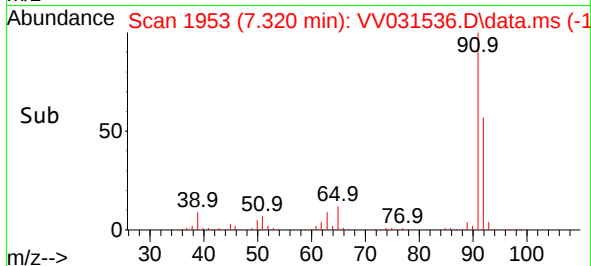
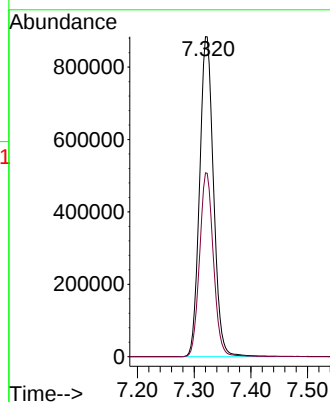
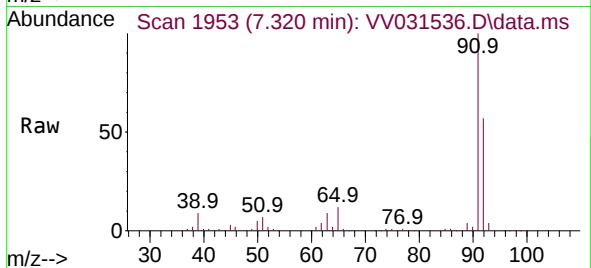
EXYT4

Tgt Ion: 91 Resp: 1509197

Ion Ratio Lower Upper

91 100

92 57.4 39.6 73.6



#45

1,1,2-Trichloroethane

Concen: 7.141 ug/L

RT: 7.780 min Scan# 2096

Delta R.T. 0.007 min

Lab File: VV031536.D

Acq: 15 Jun 2023 17:09

Tgt Ion: 97 Resp: 15238

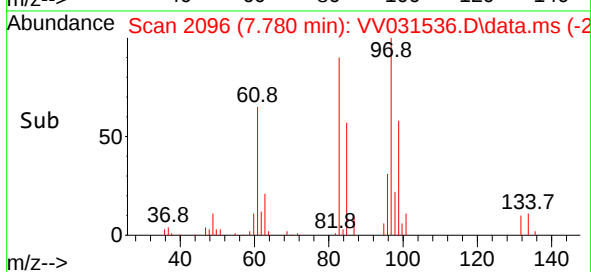
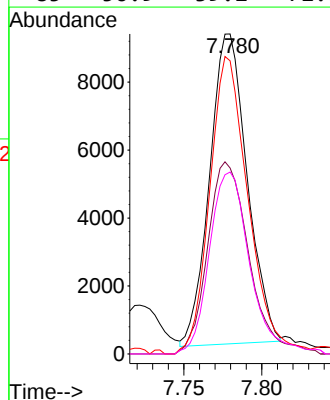
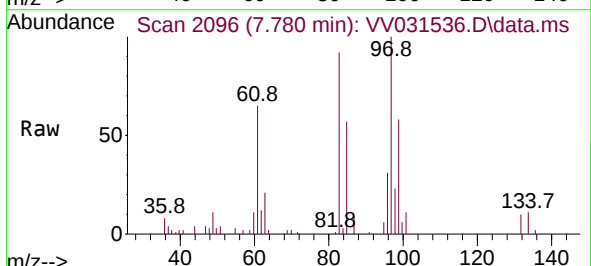
Ion Ratio Lower Upper

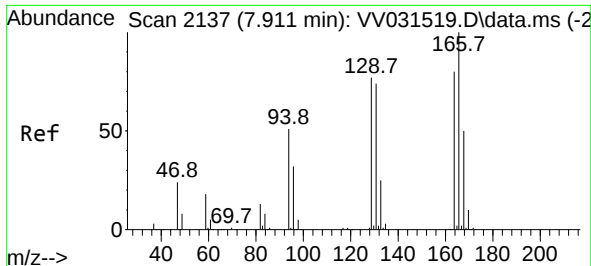
97 100

99 64.3 43.7 81.1

83 91.6 60.9 113.1

85 56.9 39.2 72.8

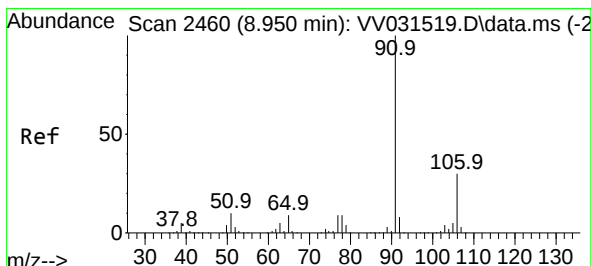
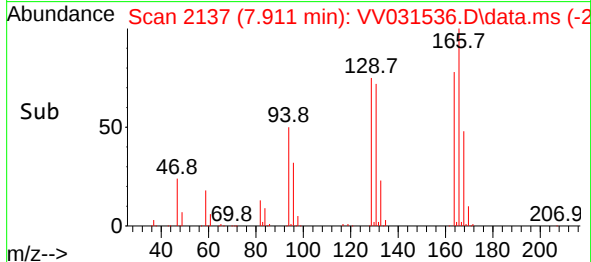
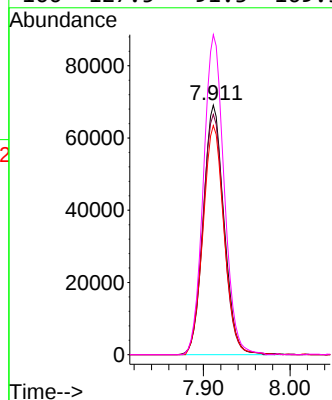
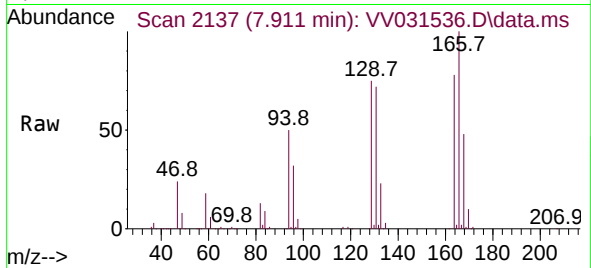




#46
Tetrachloroethene
Concen: 71.092 ug/L
RT: 7.911 min Scan# 2137
Delta R.T. 0.000 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

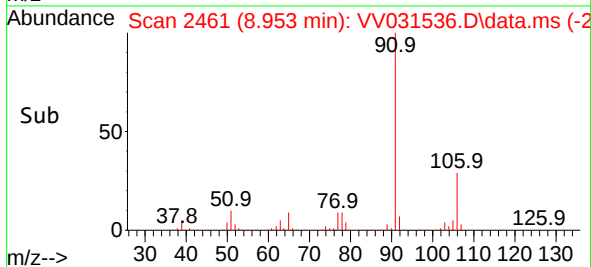
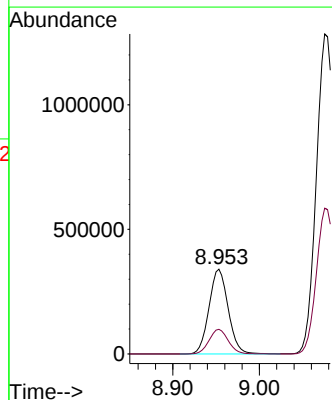
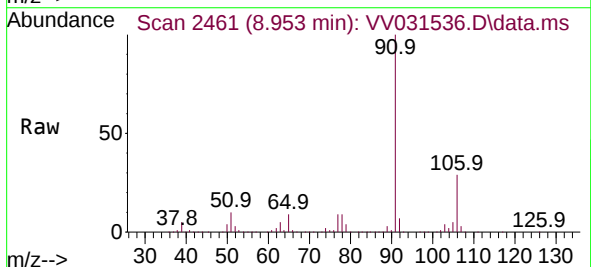
Instrument :
MSVOA_V
ClientSampleId :
EXYT4

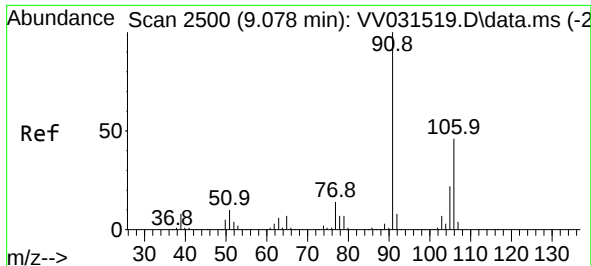
Tgt Ion:164 Resp: 114701
Ion Ratio Lower Upper
164 100
129 93.5 68.4 127.0
131 91.2 67.6 125.6
166 127.5 91.3 169.5



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

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

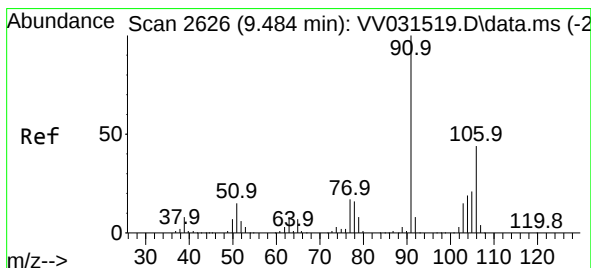
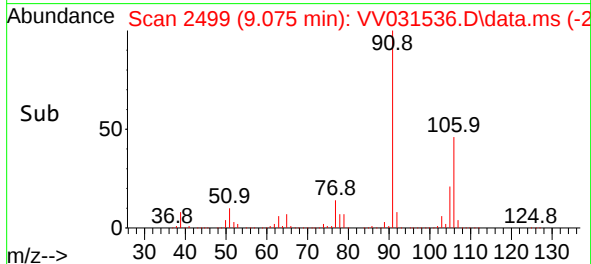
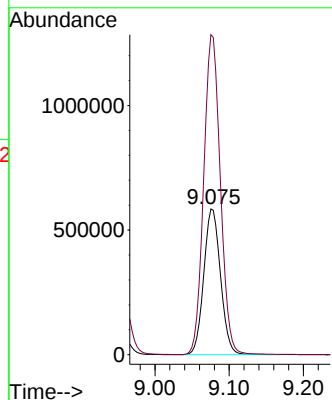
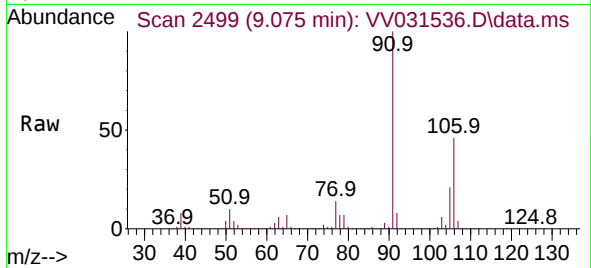




#53
m,p-Xylene
Concen: 280.318 ug/L
RT: 9.075 min Scan# 2499
Delta R.T. -0.003 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

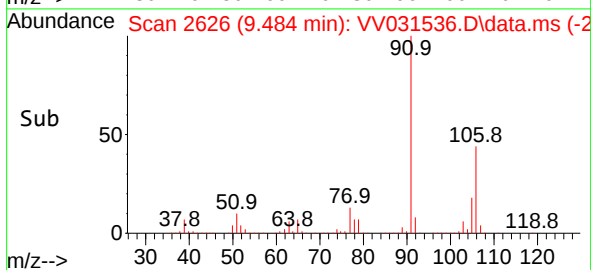
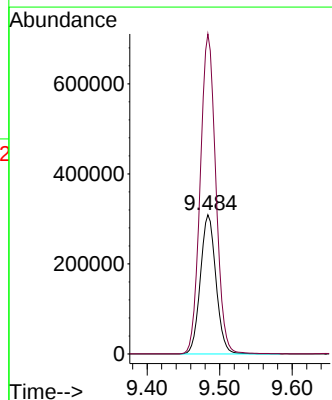
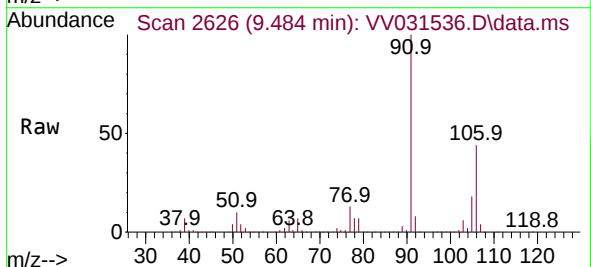
Instrument :
MSVOA_V
ClientSampleId :
EXYT4

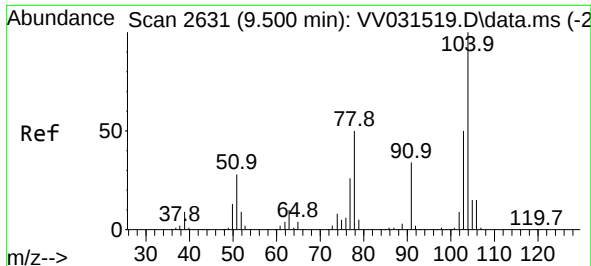
Tgt Ion:106 Resp: 913666
Ion Ratio Lower Upper
106 100
91 219.4 149.0 276.6



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

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

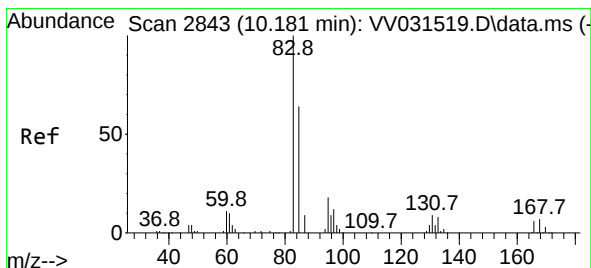
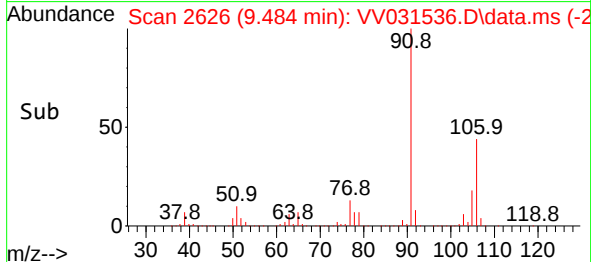
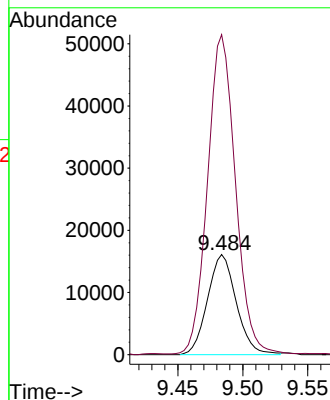
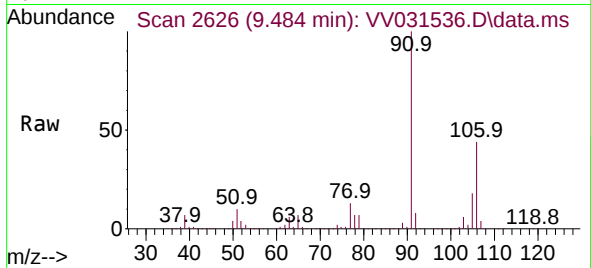




#55
Styrene
Concen: 4.487 ug/L
RT: 9.484 min Scan# 20
Delta R.T. -0.016 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

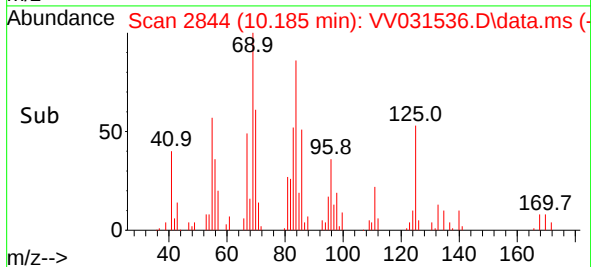
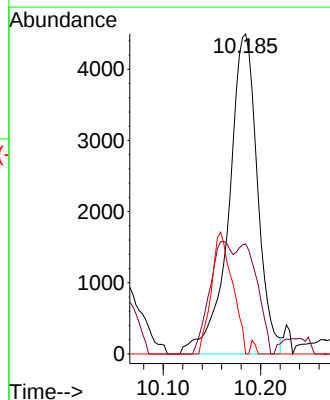
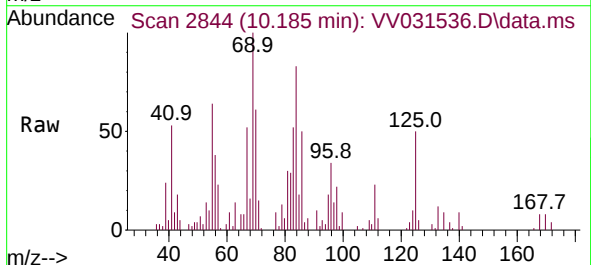
Instrument :
MSVOA_V
ClientSampleId :
EXYT4

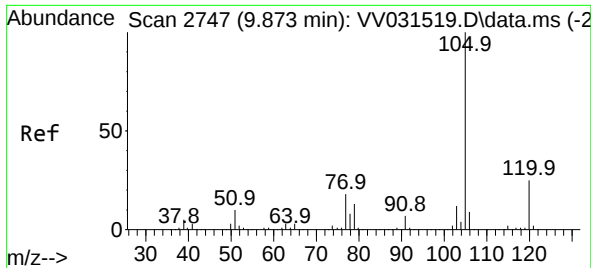
Tgt Ion:104 Resp: 24784
Ion Ratio Lower Upper
104 100
78 319.7 35.1 65.3#



#57
1,1,2,2-Tetrachloroethane
Concen: 2.628 ug/L
RT: 10.185 min Scan# 2844
Delta R.T. 0.003 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

Tgt Ion: 83 Resp: 9162
Ion Ratio Lower Upper
83 100
85 34.4 43.1 80.1#
131 2.7 10.6 16.0#

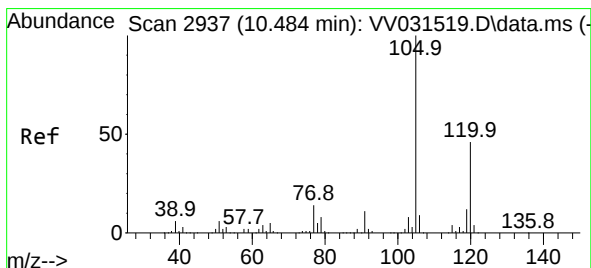
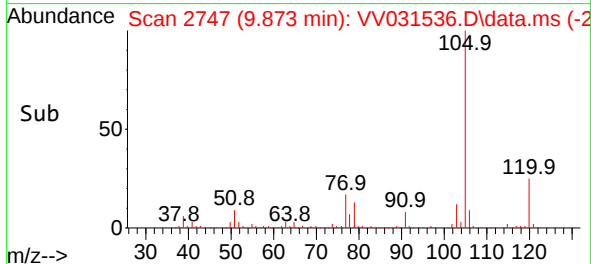
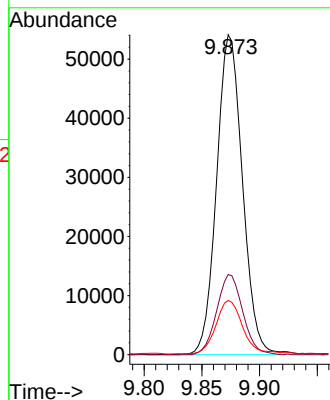
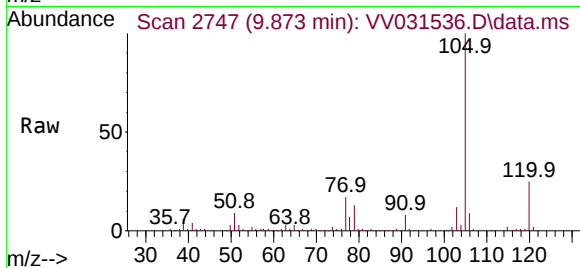




#60
Isopropylbenzene
Concen: 9.329 ug/L
RT: 9.873 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV031536.D
Acq: 15 Jun 2023 17:09

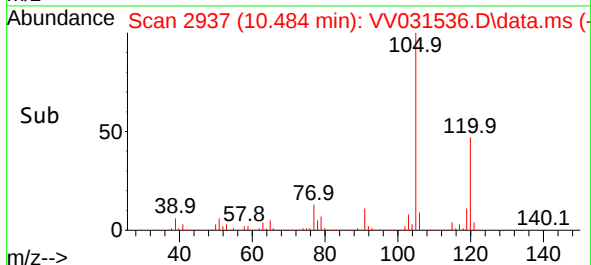
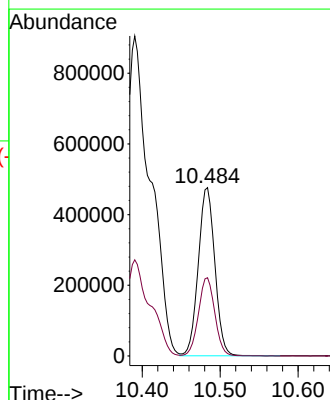
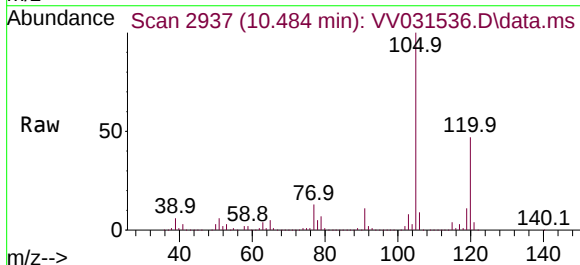
Instrument :
MSVOA_V
ClientSampleId :
EXYT4

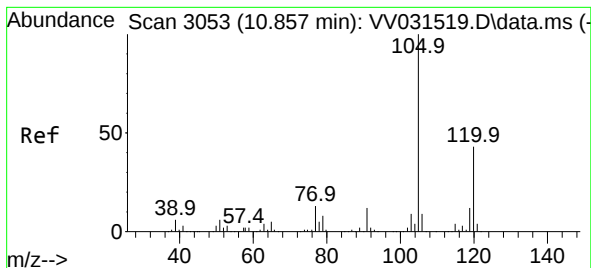
Tgt Ion:105 Resp: 84099
Ion Ratio Lower Upper
105 100
120 25.2 20.2 30.2
77 17.1 13.5 20.3



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

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





#63

1,2,4-Trimethylbenzene

Concen: 438.418 ug/L

RT: 10.860 min Scan# 3053

Delta R.T. 0.003 min

Lab File: VV031536.D

Acq: 15 Jun 2023 17:09

Instrument :

MSVOA_V

ClientSampleId :

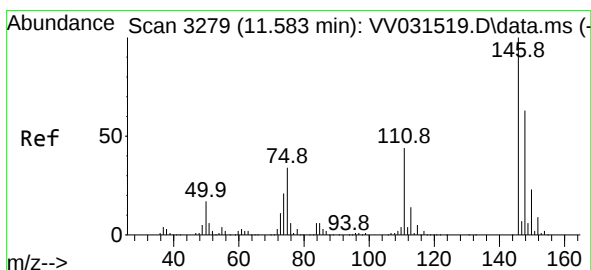
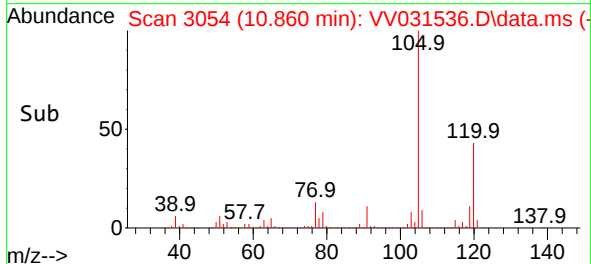
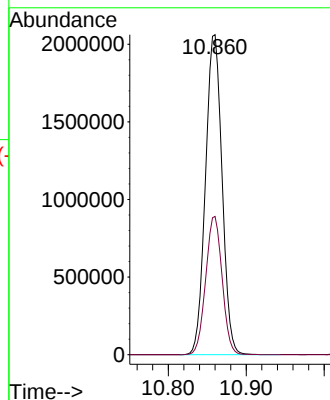
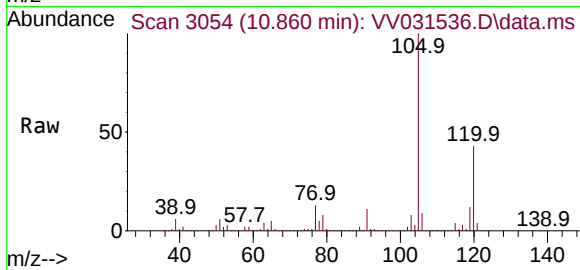
EXYT4

Tgt Ion:105 Resp: 3043520

Ion Ratio Lower Upper

105 100

120 42.8 33.4 50.2



#67

1,2-Dichlorobenzene

Concen: 1.702 ug/L

RT: 11.587 min Scan# 3280

Delta R.T. 0.003 min

Lab File: VV031536.D

Acq: 15 Jun 2023 17:09

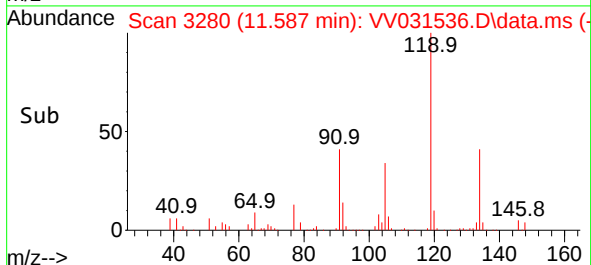
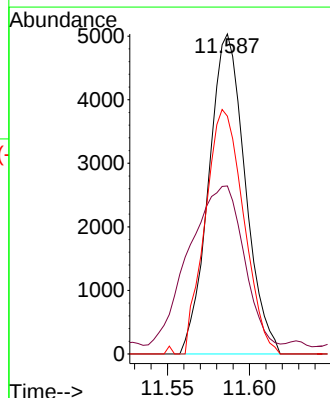
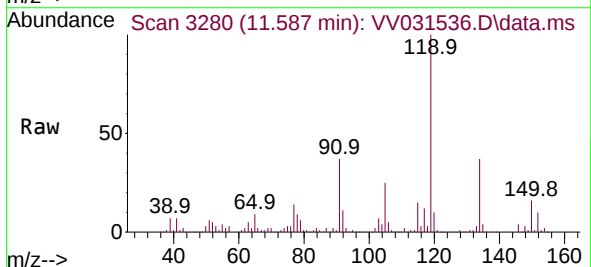
Tgt Ion:146 Resp: 7764

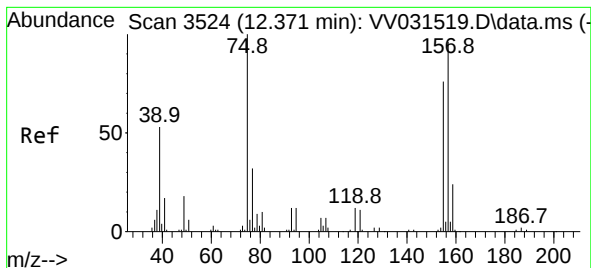
Ion Ratio Lower Upper

146 100

111 52.5 35.9 53.9

148 74.3 52.6 78.8





#68

1,2-Dibromo-3-chloropropane

Concen: 1.826 ug/L

RT: 12.406 min Scan# 3535

Delta R.T. 0.035 min

Lab File: VV031536.D

Acq: 15 Jun 2023 17:09

Instrument :

MSVOA_V

ClientSampleId :

EXYT4

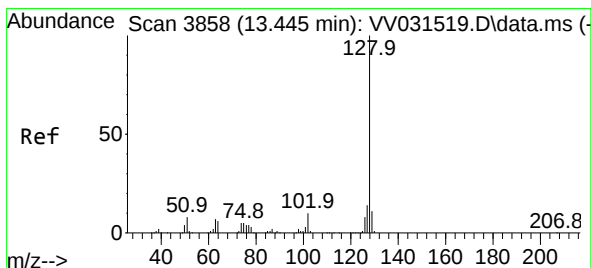
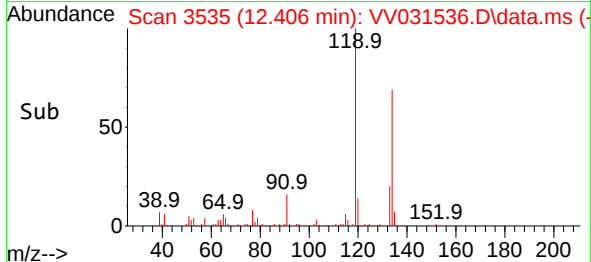
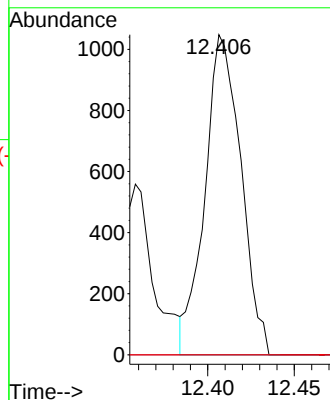
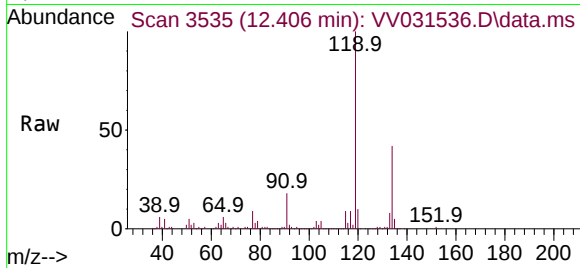
Tgt Ion: 75 Resp: 1514

Ion Ratio Lower Upper

75 100

155 0.0 63.2 94.8#

157 0.0 85.3 127.9#



#71

Naphthalene

Concen: 22.032 ug/L

RT: 13.445 min Scan# 3858

Delta R.T. 0.000 min

Lab File: VV031536.D

Acq: 15 Jun 2023 17:09

Tgt Ion: 128 Resp: 168452

Ion Ratio Lower Upper

128 100

127 13.6 10.6 16.0

129 11.0 8.6 13.0

