

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW061523\
 Data File : VW031534.D
 Acq On : 15 Jun 2023 16:23
 Operator : SY/MD
 Sample : 03249-12
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXYT2

Quant Time: Jun 16 02:49:32 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	196615	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	199473	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.191	152	123495	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	54178	41.404	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.800%
7) Chloroethane-d5	1.535	69	52865	46.302	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.600%
11) 1,1-Dichloroethene-d2	2.069	65	29168	43.250	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.500%
21) 2-Butanone-d5	3.812	46	122534	115.646	ug/L	0.01
Spiked Amount	100.000	Range	40 - 130	Recovery	=	115.650%
24) Chloroform-d	4.262	84	150795	46.014	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.020%
26) 1,2-Dichloroethane-d4	4.950	65	102912	50.191	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.380%
32) Benzene-d6	4.969	84	263841	46.991	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.980%
36) 1,2-Dichloropropane-d6	5.998	67	96349	48.416	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.840%
41) Toluene-d8	7.249	98	232131	45.053	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.100%
43) trans-1,3-Dichloroprop...	7.558	79	49680	51.210	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.420%
47) 2-Hexanone-d5	8.030	63	82037	104.408	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.410%
56) 1,1,2,2-Tetrachloroeth...	10.159	84	147368	49.061	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.120%
66) 1,2-Dichlorobenzene-d4	11.567	152	120387	51.141	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.280%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.288	62	201491	103.287	ug/L	98
8) Chloroethane	1.555	64	113531	90.106	ug/L	97
9) Trichlorofluoromethane	1.722	101	6943	2.139	ug/L	93
16) Methylene chloride	2.455	84	5416	2.969	ug/L	91
17) trans-1,2-Dichloroethene	2.703	96	94692	62.356	ug/L	92
19) 1,1-Dichloroethane	3.121	63	8361452	2551.157	ug/L	98
20) cis-1,2-Dichloroethene	3.825	96	15196174	9259.669	ug/L	89
22) 2-Butanone	3.905	43	9088	6.958	ug/L #	57
25) Chloroform	4.288	83	10064	2.954	ug/L	98
27) 1,2-Dichloroethane	5.053	62	66444	25.268	ug/L	98
29) Cyclohexane	4.590	56	2460	0.948	ug/L #	27
30) 1,1,1-Trichloroethane	4.526	97	7496176	2343.914	ug/L	99
33) Benzene	5.021	78	54316	8.179	ug/L	100
34) Trichloroethene	5.841	95	105982	59.720	ug/L	88
35) Methylcyclohexane	6.059	83	8939	3.419	ug/L	95
40) 4-Methyl-2-pentanone	7.172	43	17640	7.703	ug/L	99
42) Toluene	7.323	91	713653	103.641	ug/L	99
45) 1,1,2-Trichloroethane	7.780	97	7867	4.270	ug/L	96
46) Tetrachloroethene	7.911	164	33807	24.272	ug/L	96

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

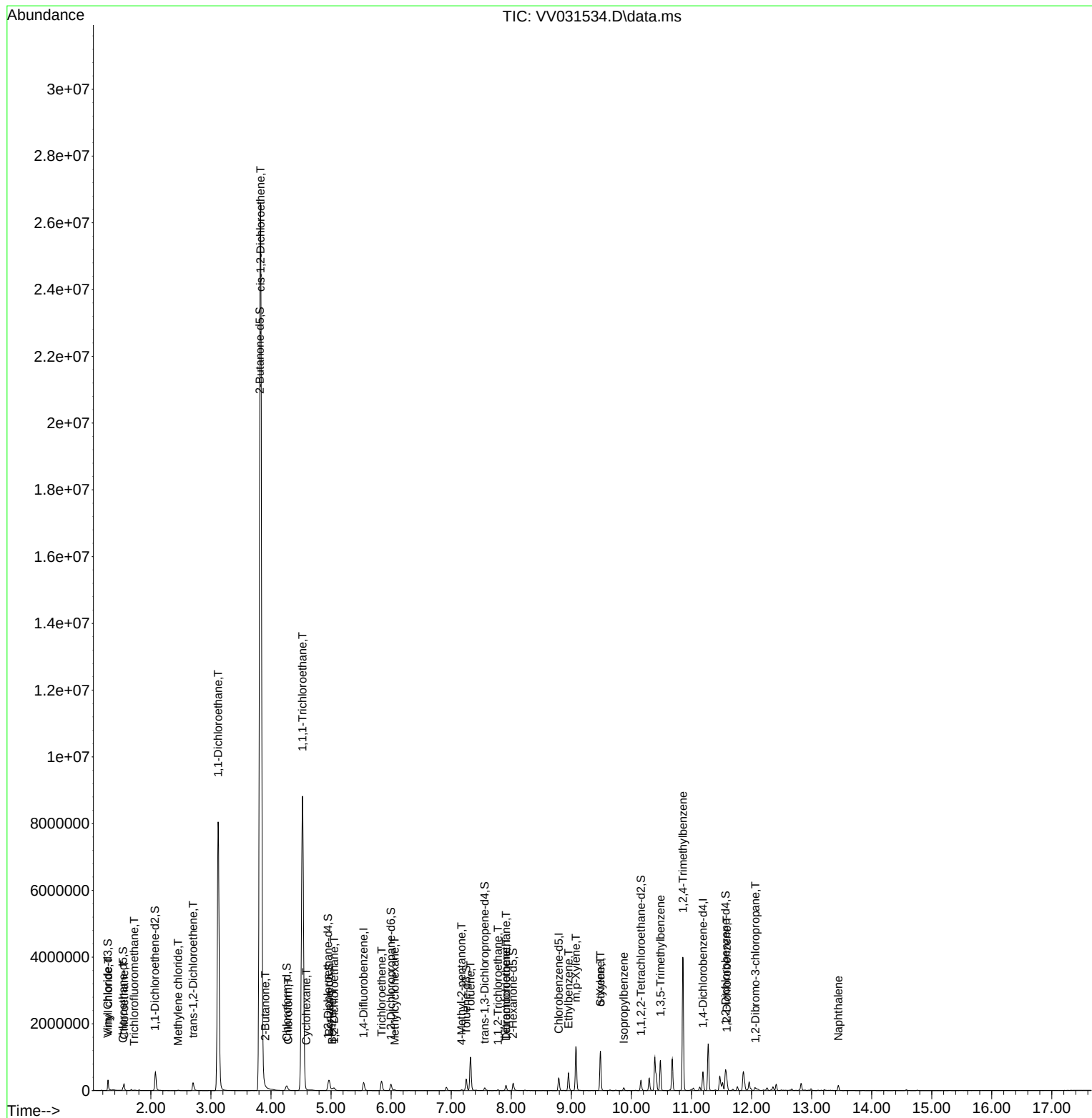
49) Dibromochloromethane	7.911	129	33682	16.450	ug/L #	9
52) Ethylbenzene	8.953	91	349128	45.439	ug/L	99
53) m,p-Xylene	9.079	106	342838	121.843	ug/L	99
54) o-Xylene	9.484	106	280132	104.911	ug/L	98
55) Styrene	9.484	104	16763	3.515	ug/L #	1
60) Isopropylbenzene	9.873	105	51874	6.589	ug/L	99
62) 1,3,5-Trimethylbenzene	10.484	105	470302	72.275	ug/L	99
63) 1,2,4-Trimethylbenzene	10.857	105	2096724	345.823	ug/L	98
67) 1,2-Dichlorobenzene	11.587	146	6683	1.677	ug/L	89
68) 1,2-Dibromo-3-chloropr...	12.062	75	1256	1.735	ug/L #	3
71) Naphthalene	13.445	128	115133	17.241	ug/L	100

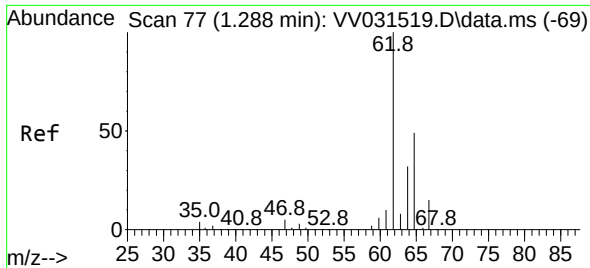
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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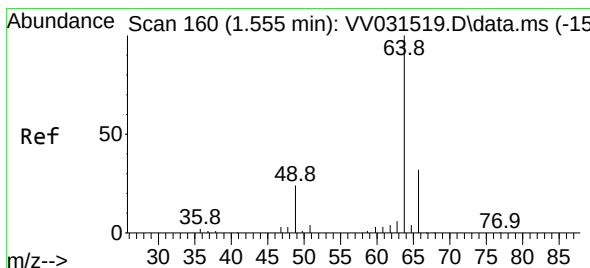
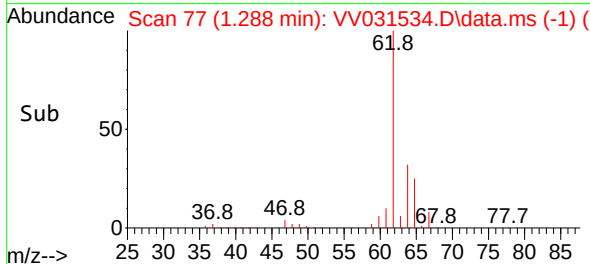
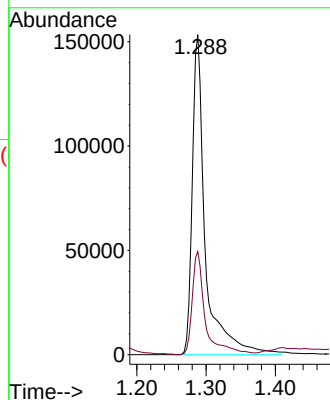
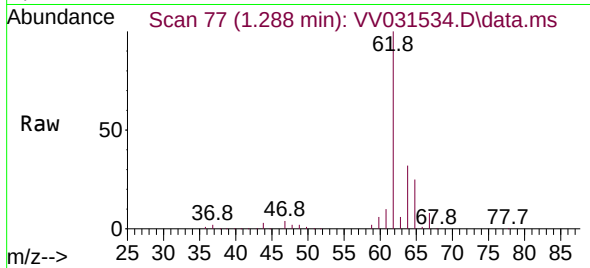




#5
 Vinyl chloride
 Concen: 103.287 ug/L
 RT: 1.288 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: VV031534.D
 Acq: 15 Jun 2023 16:23

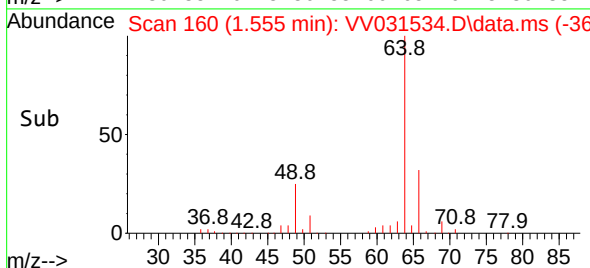
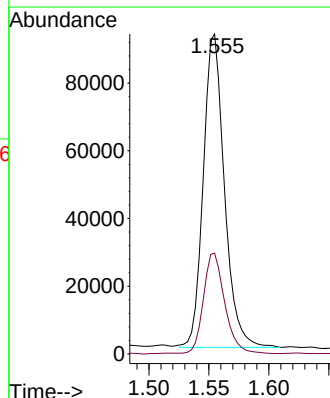
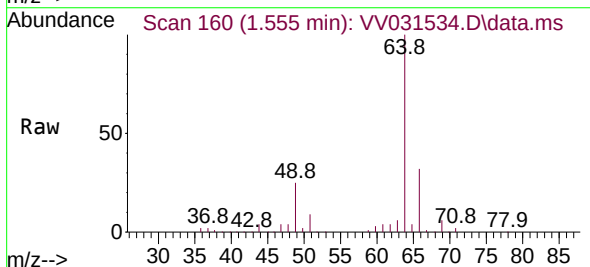
Instrument :
 MSVOA_V
 ClientSampleId :
 EXYT2

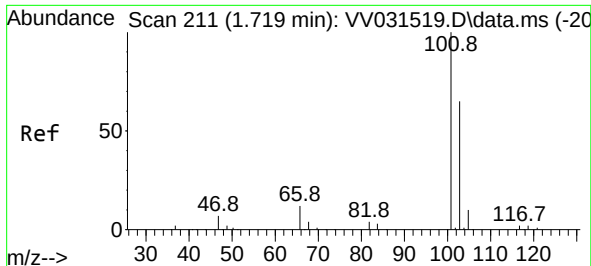
Tgt Ion: 62 Resp: 201491
 Ion Ratio Lower Upper
 62 100
 64 32.3 23.4 43.4



#8
 Chloroethane
 Concen: 90.106 ug/L
 RT: 1.555 min Scan# 160
 Delta R.T. 0.000 min
 Lab File: VV031534.D
 Acq: 15 Jun 2023 16:23

Tgt Ion: 64 Resp: 113531
 Ion Ratio Lower Upper
 64 100
 66 31.5 21.0 39.0

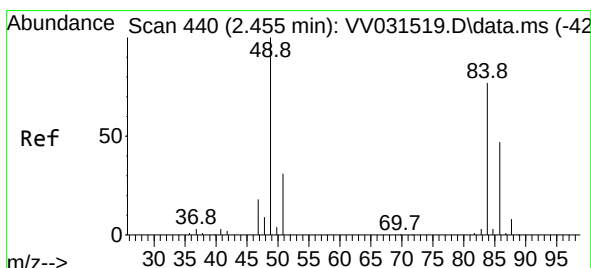
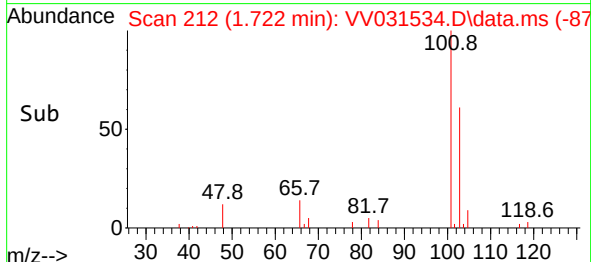
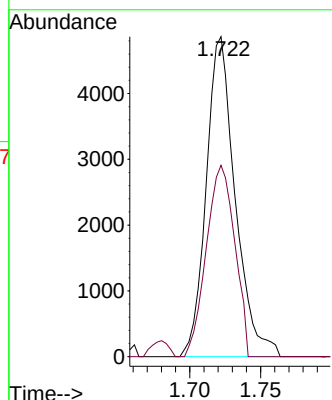
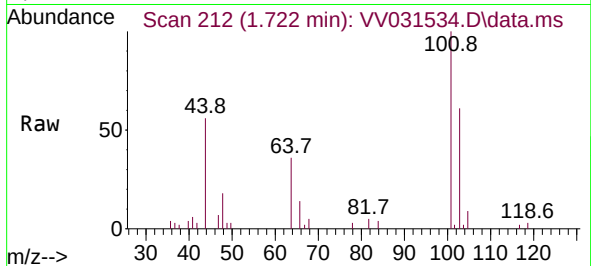




#9
Trichlorofluoromethane
Concen: 2.139 ug/L
RT: 1.722 min Scan# 211
Delta R.T. 0.003 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

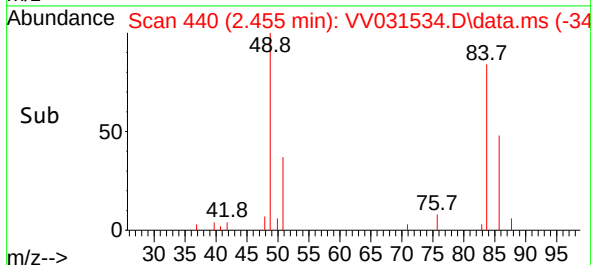
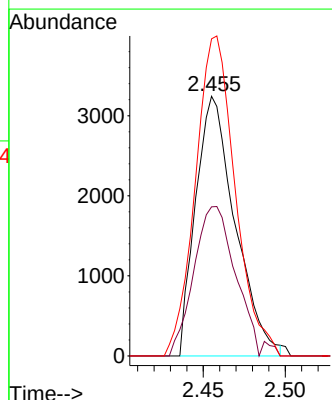
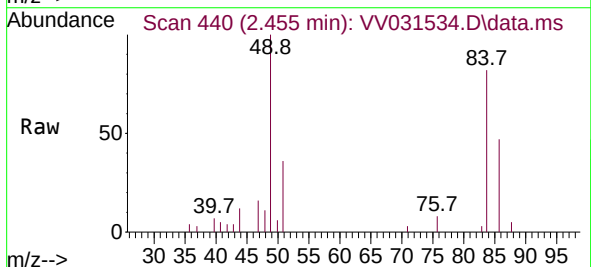
Instrument :
MSVOA_V
ClientSampleId :
EXYT2

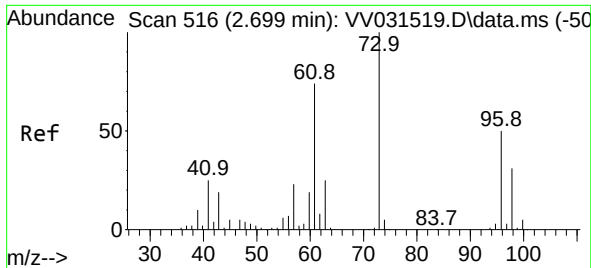
Tgt Ion:101 Resp: 6943
Ion Ratio Lower Upper
101 100
103 58.4 50.9 76.3



#16
Methylene chloride
Concen: 2.969 ug/L
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Tgt Ion: 84 Resp: 5416
Ion Ratio Lower Upper
84 100
86 57.4 45.8 85.0
49 122.1 92.1 171.1

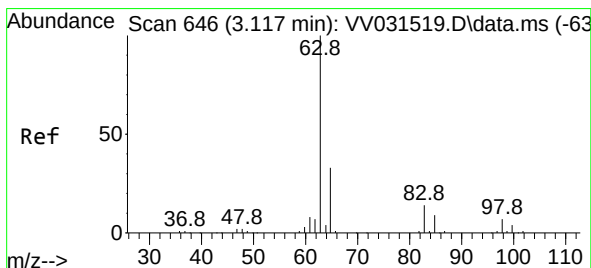
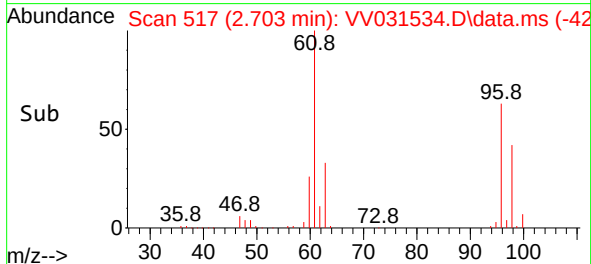
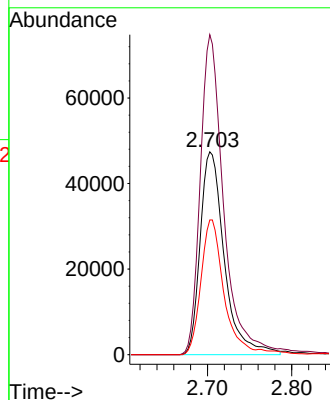
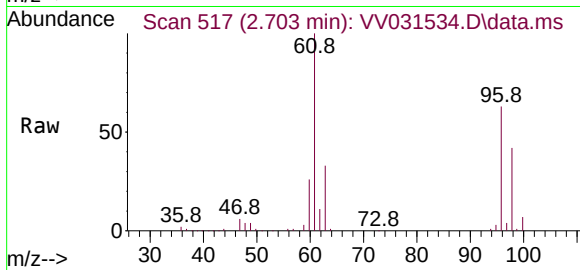




#17
trans-1,2-Dichloroethene
Concen: 62.356 ug/L
RT: 2.703 min Scan# 516
Delta R.T. 0.003 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

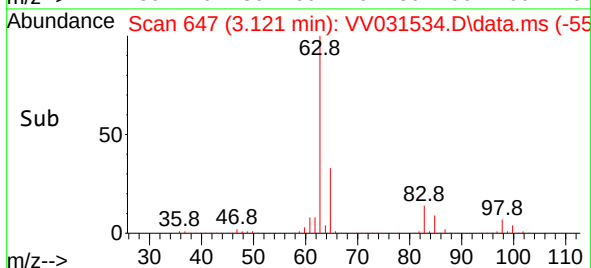
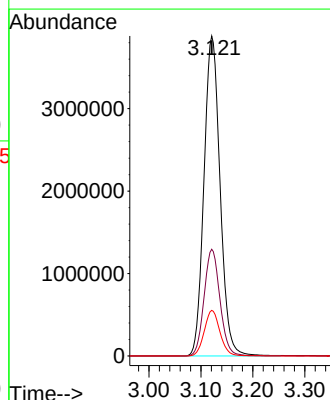
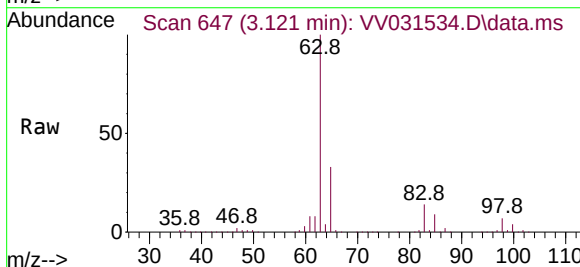
Instrument :
MSVOA_V
ClientSampleId :
EXYT2

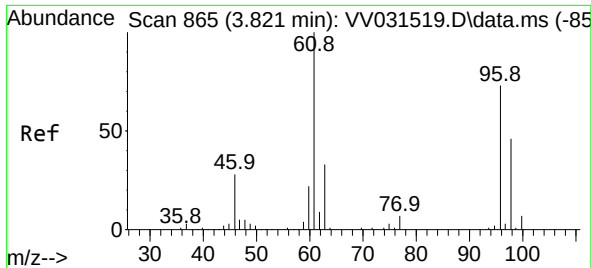
Tgt Ion: 96 Resp: 94692
Ion Ratio Lower Upper
96 100
61 157.7 102.5 190.3
98 68.4 44.1 81.9



#19
1,1-Dichloroethane
Concen: 2551.157 ug/L
RT: 3.121 min Scan# 647
Delta R.T. 0.003 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Tgt Ion: 63 Resp: 8361452
Ion Ratio Lower Upper
63 100
65 33.4 22.5 41.7
83 14.3 10.0 18.6



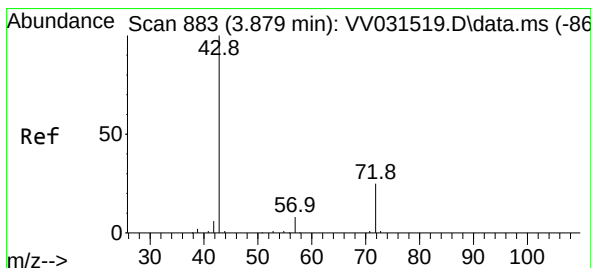
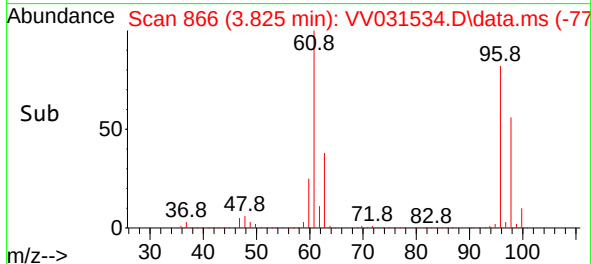
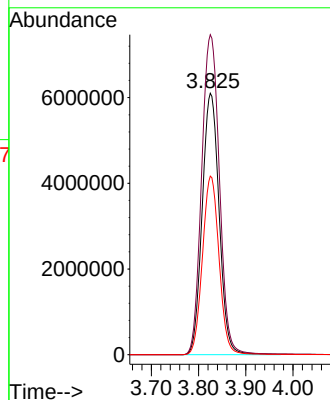
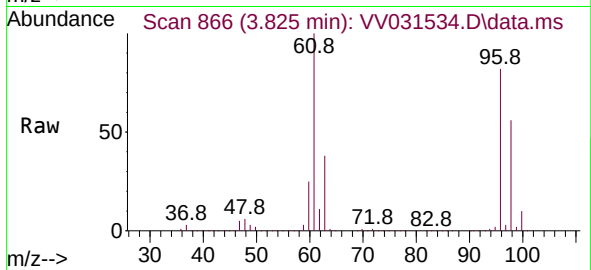


#20
 cis-1,2-Dichloroethene
 Concen: 9259.669 ug/L
 RT: 3.825 min Scan# 80
 Delta R.T. 0.003 min
 Lab File: VV031534.D
 Acq: 15 Jun 2023 16:23

Instrument :
 MSVOA_V
 ClientSampleId :
 EXYT2

Tgt Ion: 96 Resp:15196174

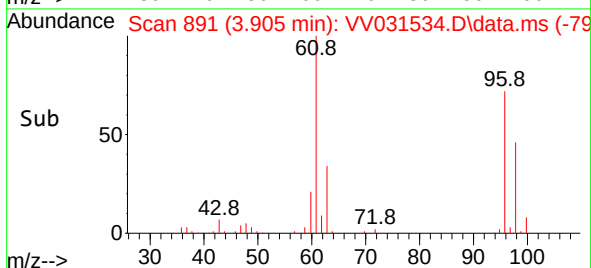
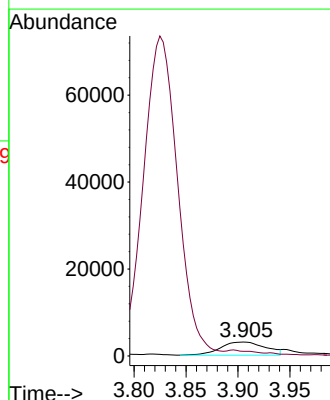
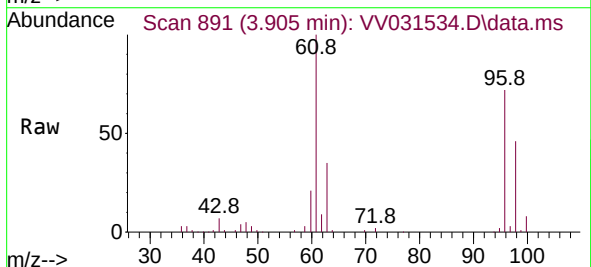
Ion	Ratio	Lower	Upper
96	100		
61	122.4	98.6	183.0
98	68.3	45.7	84.9

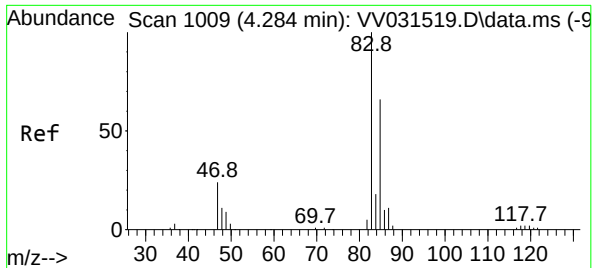


#22
 2-Butanone
 Concen: 6.958 ug/L
 RT: 3.905 min Scan# 891
 Delta R.T. 0.026 min
 Lab File: VV031534.D
 Acq: 15 Jun 2023 16:23

Tgt Ion: 43 Resp: 9088

Ion	Ratio	Lower	Upper
43	100		
72	3.1	12.2	36.4#

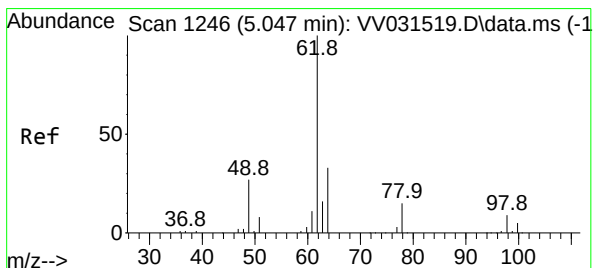
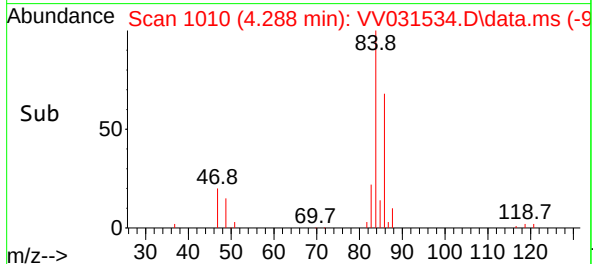
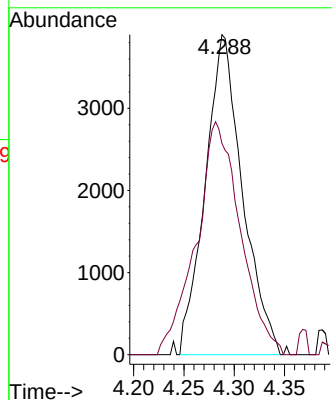
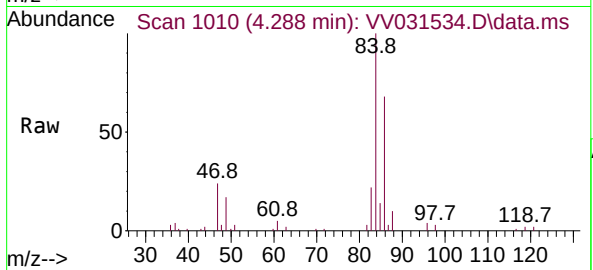




#25
Chloroform
Concen: 2.954 ug/L
RT: 4.288 min Scan# 1009
Delta R.T. 0.003 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

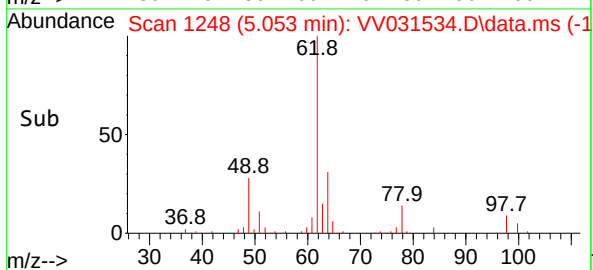
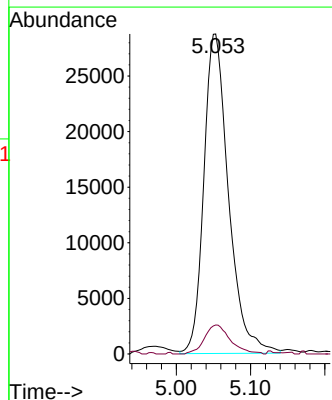
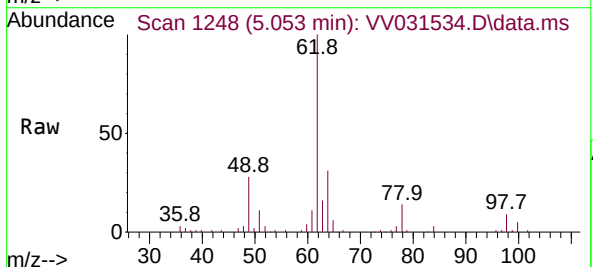
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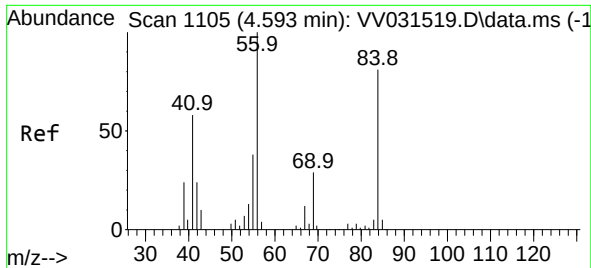
Tgt Ion: 83 Resp: 10064
Ion Ratio Lower Upper
83 100
85 66.0 45.3 84.1



#27
1,2-Dichloroethane
Concen: 25.268 ug/L
RT: 5.053 min Scan# 1248
Delta R.T. 0.007 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Tgt Ion: 62 Resp: 66444
Ion Ratio Lower Upper
62 100
98 9.0 6.6 9.8

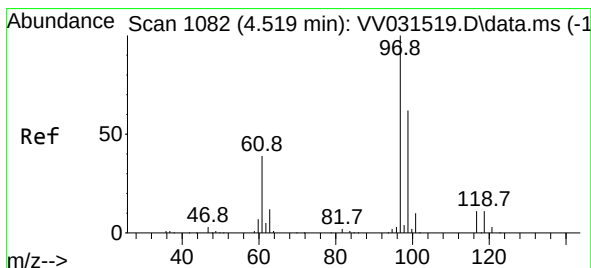
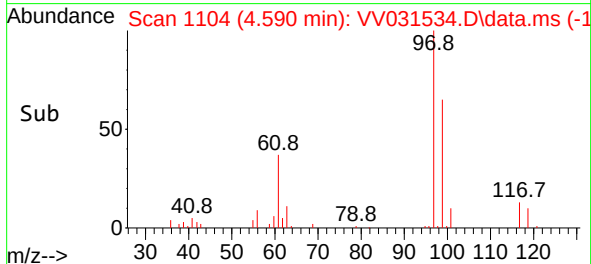
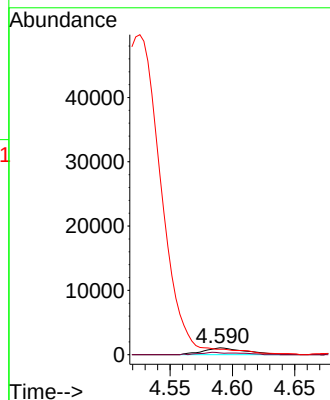
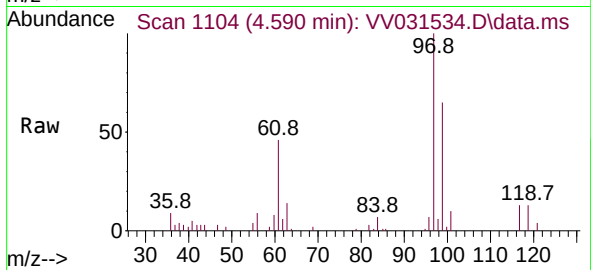




#29
Cyclohexane
Concen: 0.948 ug/L
RT: 4.590 min Scan# 1105
Delta R.T. -0.003 min
Lab File: VV031534.D
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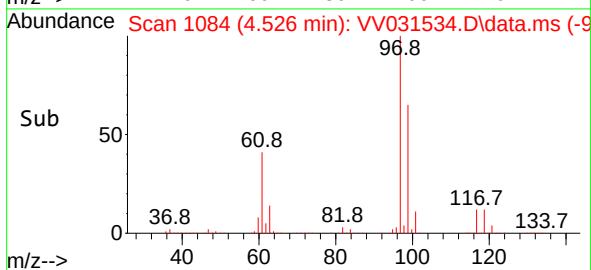
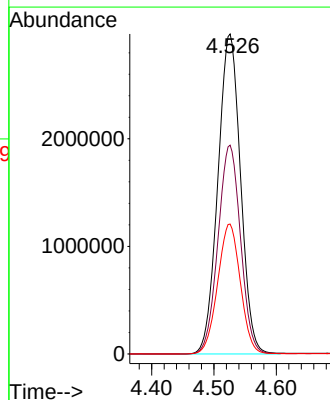
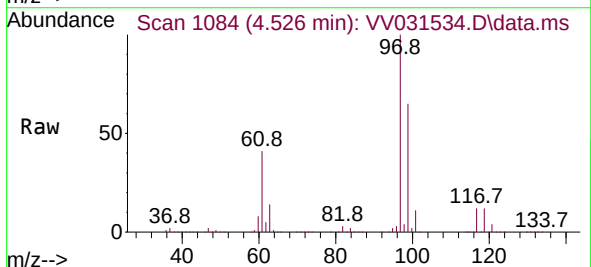
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ClientSampleId :
EXYT2

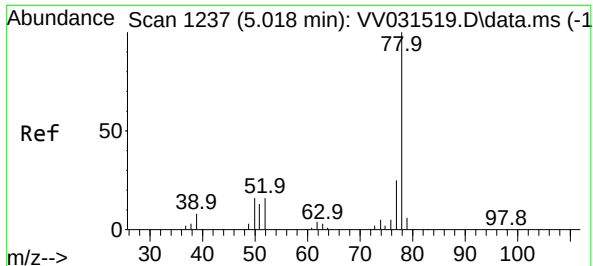
Tgt Ion: 56 Resp: 2460
Ion Ratio Lower Upper
56 100
69 16.8 24.3 36.5#
84 0.0 65.0 97.6#



#30
1,1,1-Trichloroethane
Concen: 2343.914 ug/L
RT: 4.526 min Scan# 1084
Delta R.T. 0.007 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Tgt Ion: 97 Resp: 7496176
Ion Ratio Lower Upper
97 100
99 65.2 51.8 77.6
61 40.7 33.0 49.6

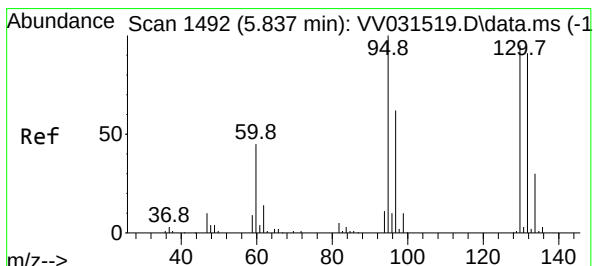
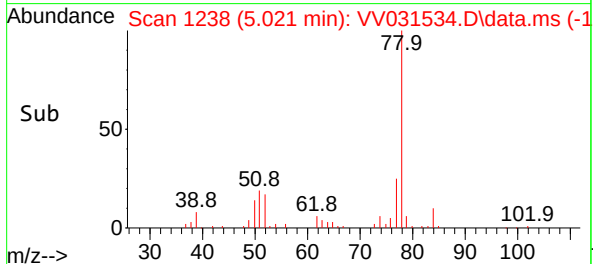
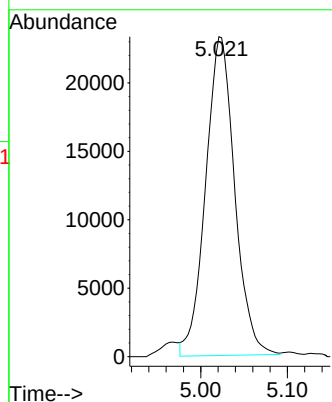
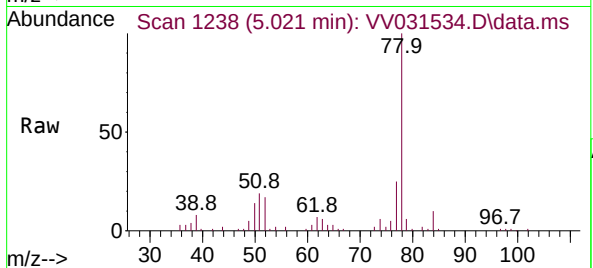




#33
Benzene
Concen: 8.179 ug/L
RT: 5.021 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Instrument :
MSVOA_V
ClientSampleId :
EXYT2

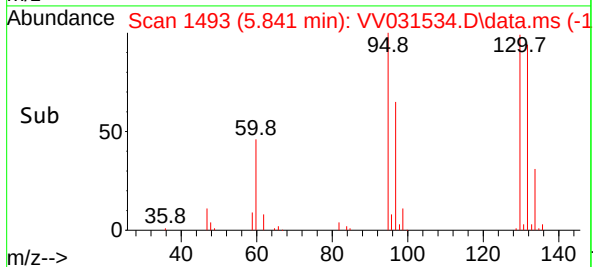
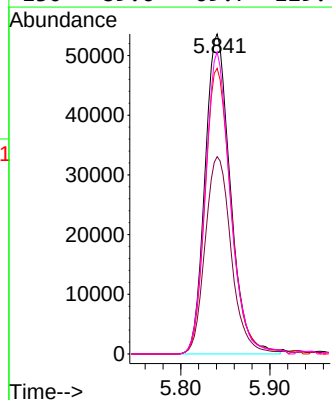
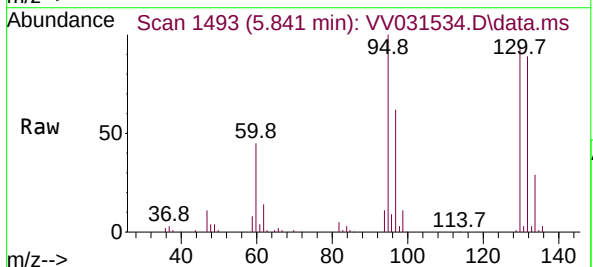
Tgt Ion: 78 Resp: 54316

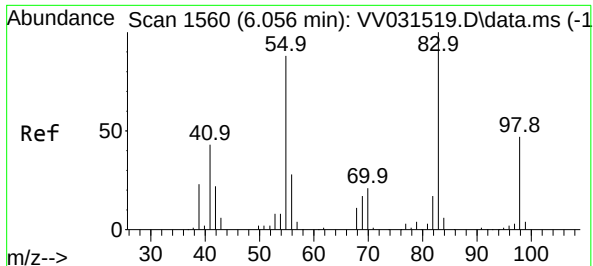


#34
Trichloroethene
Concen: 59.720 ug/L
RT: 5.841 min Scan# 1493
Delta R.T. 0.003 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Tgt Ion: 95 Resp: 105982

Ion	Ratio	Lower	Upper
95	100		
97	56.8	46.8	86.8
132	82.2	66.4	123.2
130	89.6	69.7	129.4





#35

Methylcyclohexane

Concen: 3.419 ug/L

RT: 6.059 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV031534.D

Acq: 15 Jun 2023 16:23

Instrument :

MSVOA_V

ClientSampleId :

EXYT2

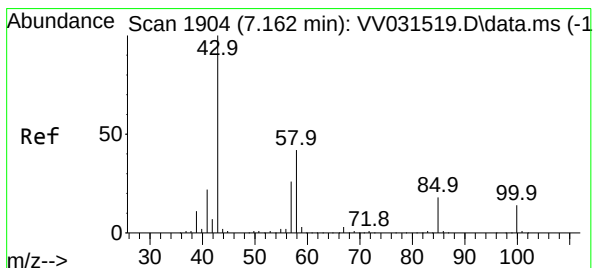
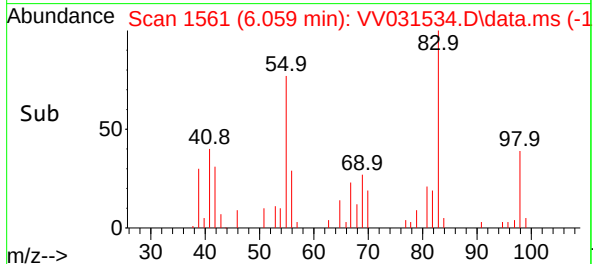
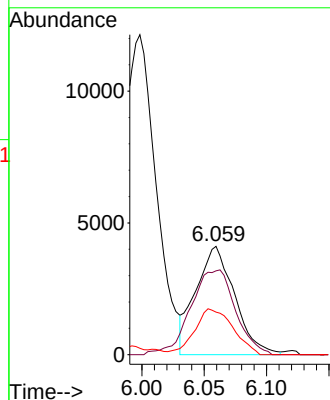
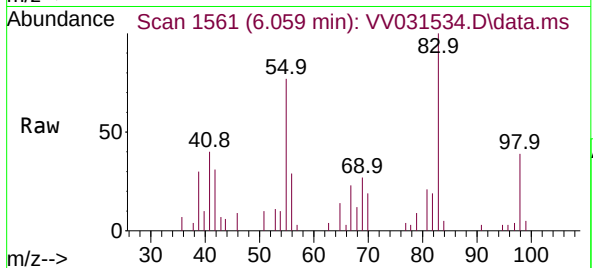
Tgt Ion: 83 Resp: 8939

Ion Ratio Lower Upper

83 100

55 89.7 68.7 103.1

98 41.8 37.0 55.4



#40

4-Methyl-2-pentanone

Concen: 7.703 ug/L

RT: 7.172 min Scan# 1907

Delta R.T. 0.010 min

Lab File: VV031534.D

Acq: 15 Jun 2023 16:23

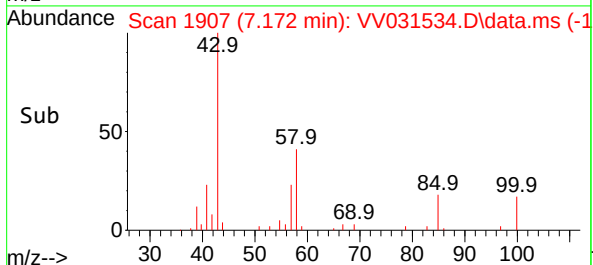
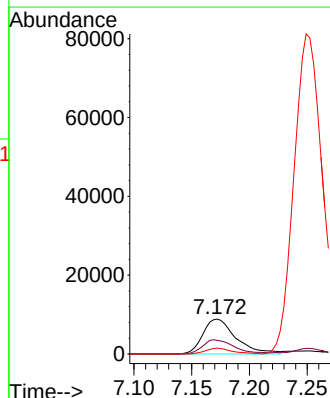
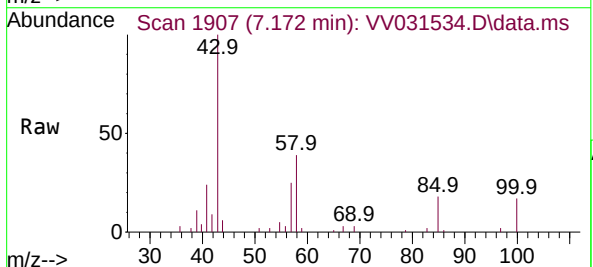
Tgt Ion: 43 Resp: 17640

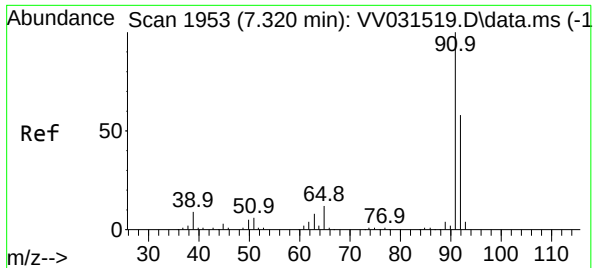
Ion Ratio Lower Upper

43 100

58 38.9 31.8 47.8

100 13.3 11.1 16.7

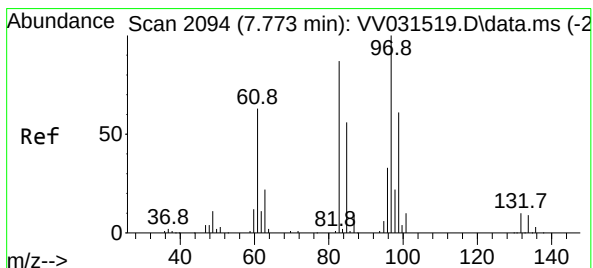
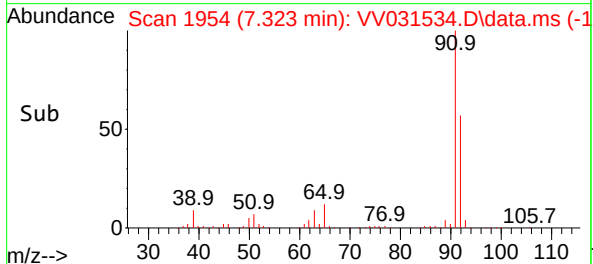
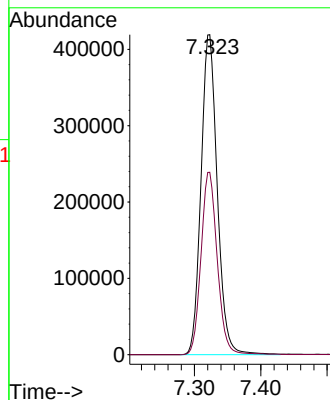
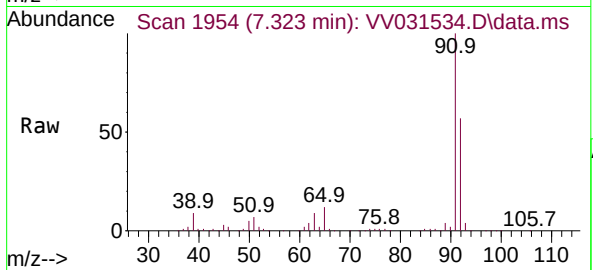




#42
Toluene
Concen: 103.641 ug/L
RT: 7.323 min Scan# 1953
Delta R.T. 0.003 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

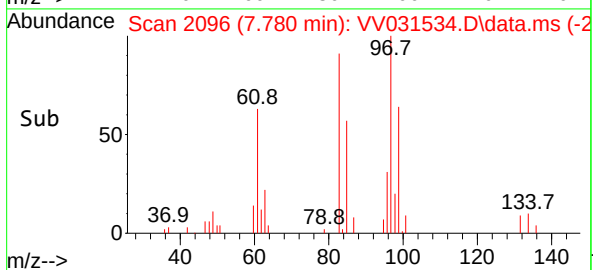
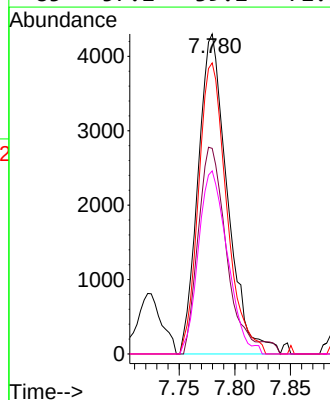
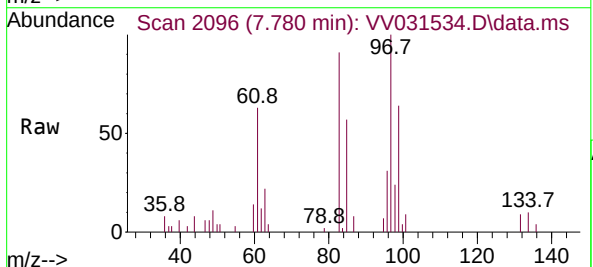
Instrument :
MSVOA_V
ClientSampleId :
EXYT2

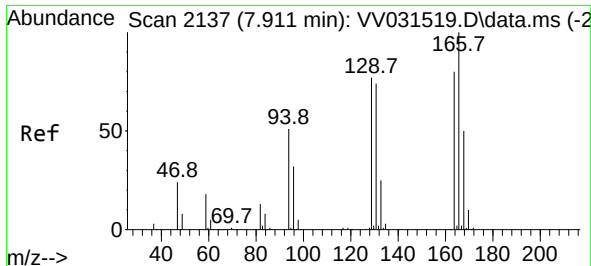
Tgt Ion: 91 Resp: 713653
Ion Ratio Lower Upper
91 100
92 57.0 39.6 73.6



#45
1,1,2-Trichloroethane
Concen: 4.270 ug/L
RT: 7.780 min Scan# 2096
Delta R.T. 0.007 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Tgt Ion: 97 Resp: 7867
Ion Ratio Lower Upper
97 100
99 64.3 43.7 81.1
83 93.4 60.9 113.1
85 57.2 39.2 72.8

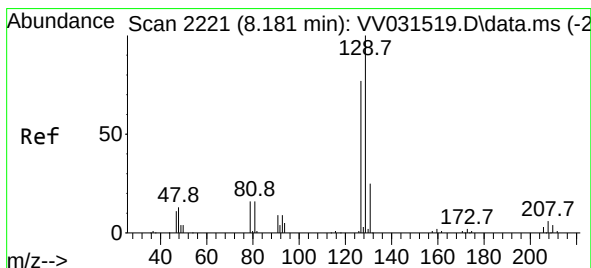
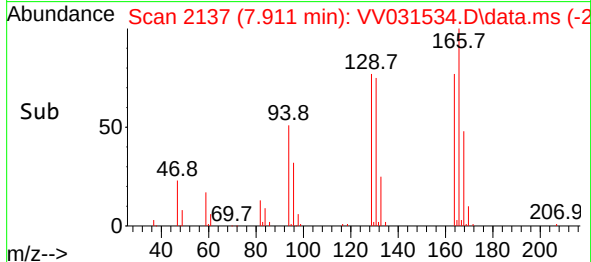
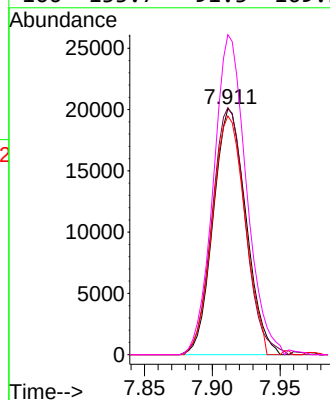
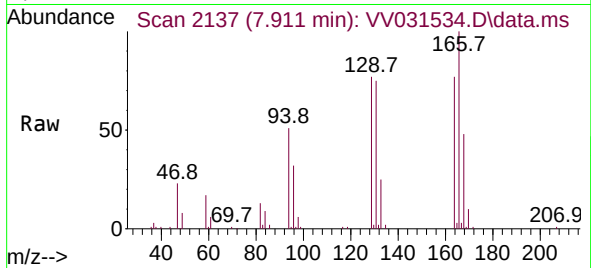




#46
Tetrachloroethene
Concen: 24.272 ug/L
RT: 7.911 min Scan# 2137
Delta R.T. 0.000 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

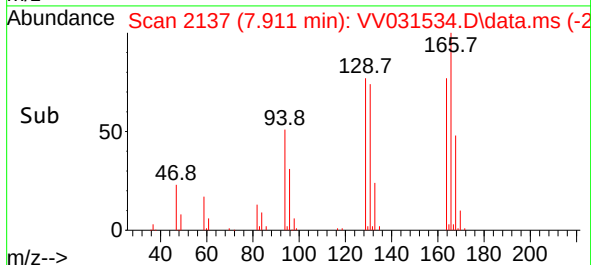
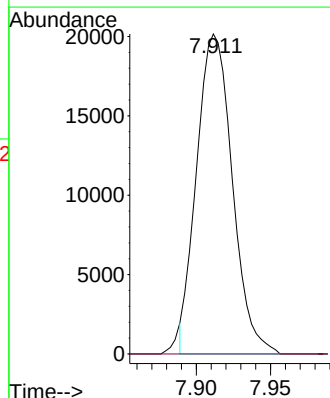
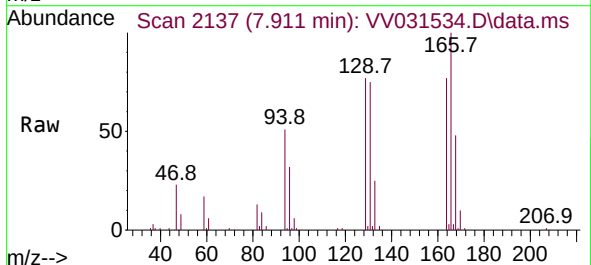
Instrument :
MSVOA_V
ClientSampleId :
EXYT2

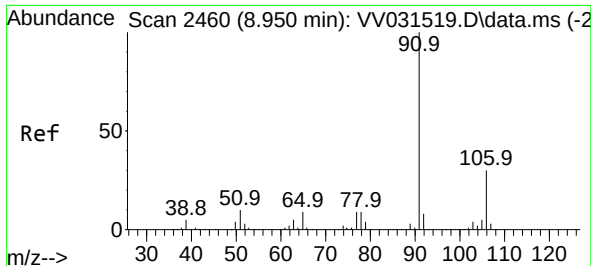
Tgt Ion:	164	Resp:	33807
Ion	Ratio	Lower	Upper
164	100		
129	102.8	68.4	127.0
131	99.4	67.6	125.6
166	133.7	91.3	169.5



#49
Dibromochloromethane
Concen: 16.450 ug/L
RT: 7.911 min Scan# 2137
Delta R.T. -0.270 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Tgt Ion:	129	Resp:	33682
Ion	Ratio	Lower	Upper
129	100		
127	0.0	55.8	103.6#





#52

Ethylbenzene

Concen: 45.439 ug/L

RT: 8.953 min Scan# 2460

Delta R.T. 0.003 min

Lab File: VV031534.D

Acq: 15 Jun 2023 16:23

Instrument :

MSVOA_V

ClientSampleId :

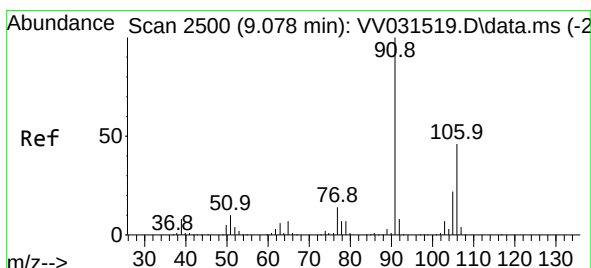
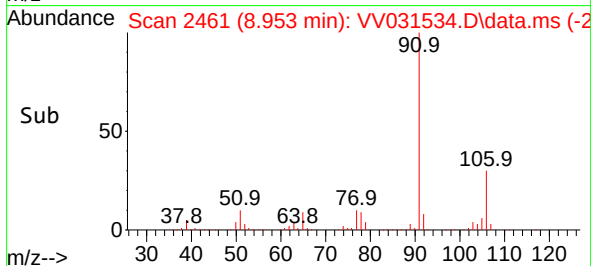
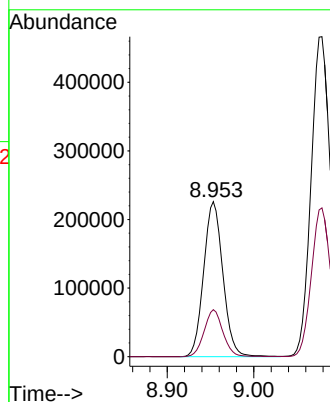
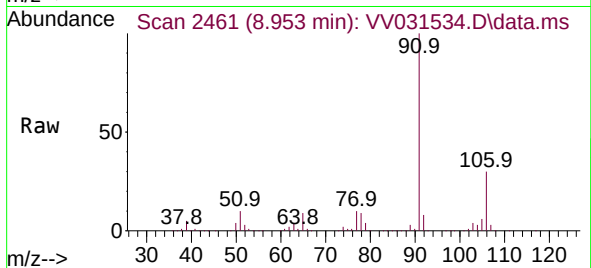
EXYT2

Tgt Ion: 91 Resp: 349128

Ion Ratio Lower Upper

91 100

106 30.3 20.8 38.6



#53

m,p-Xylene

Concen: 121.843 ug/L

RT: 9.079 min Scan# 2500

Delta R.T. 0.000 min

Lab File: VV031534.D

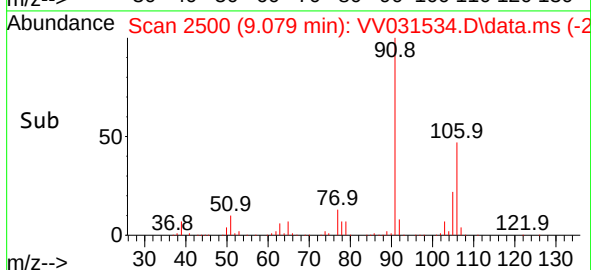
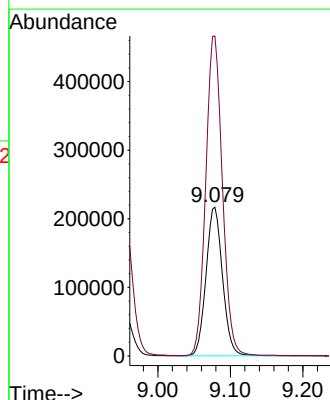
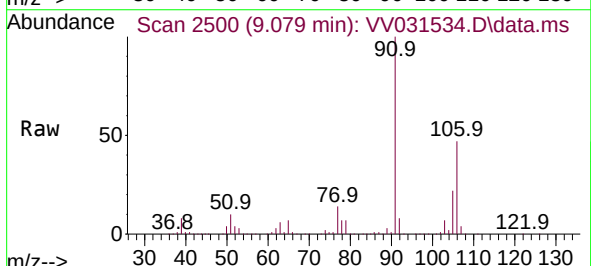
Acq: 15 Jun 2023 16:23

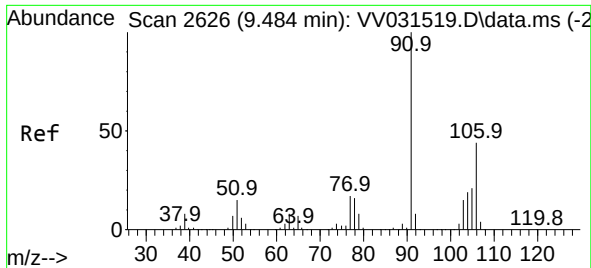
Tgt Ion: 106 Resp: 342838

Ion Ratio Lower Upper

106 100

91 215.0 149.0 276.6

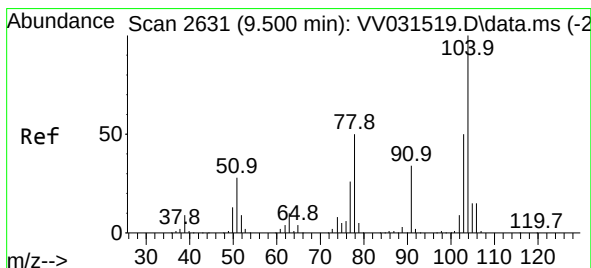
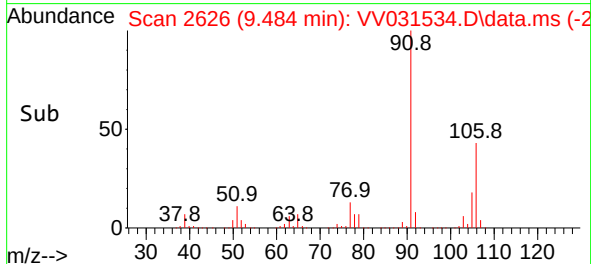
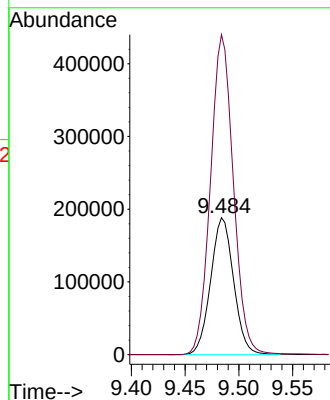
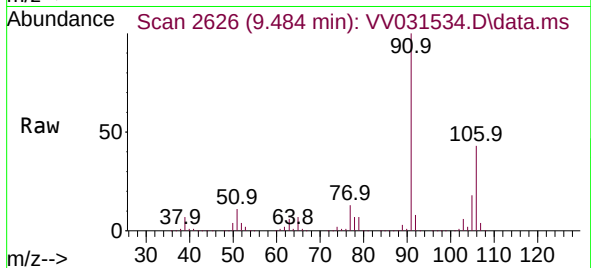




#54
o-Xylene
Concen: 104.911 ug/L
RT: 9.484 min Scan# 2626
Delta R.T. 0.000 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

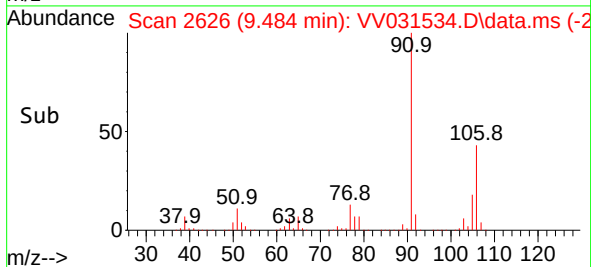
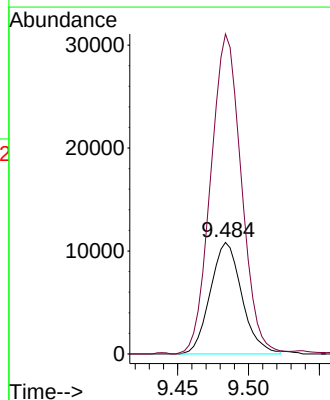
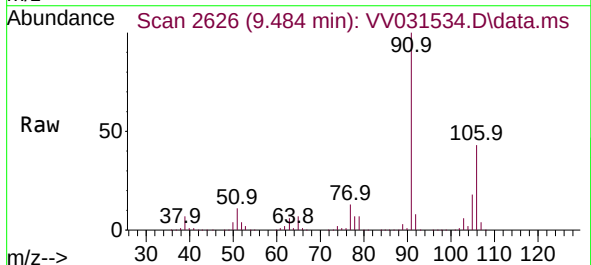
Instrument :
MSVOA_V
ClientSampleId :
EXYT2

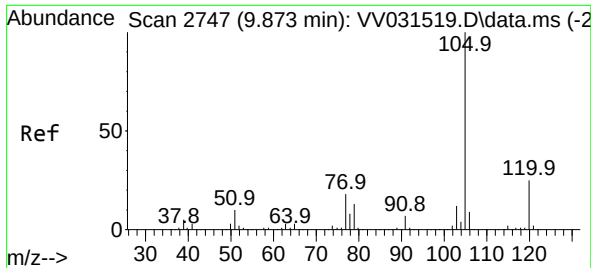
Tgt Ion:106 Resp: 280132
Ion Ratio Lower Upper
106 100
91 233.7 161.3 299.7



#55
Styrene
Concen: 3.515 ug/L
RT: 9.484 min Scan# 2626
Delta R.T. -0.016 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Tgt Ion:104 Resp: 16763
Ion Ratio Lower Upper
104 100
78 286.9 35.1 65.3#

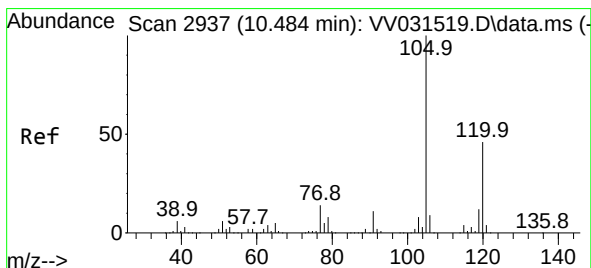
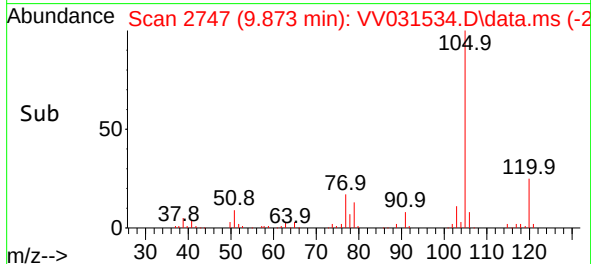
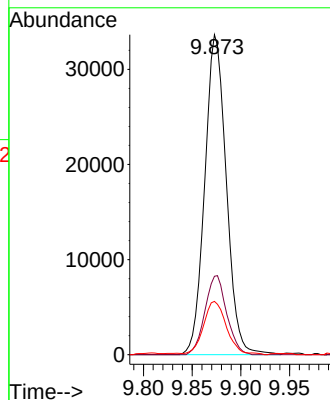
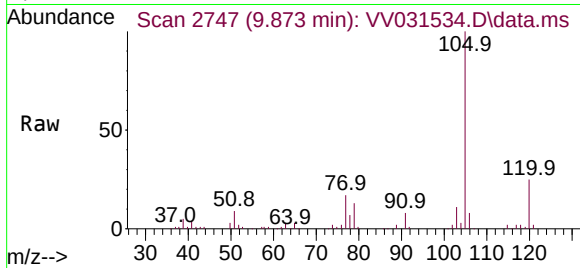




#60
Isopropylbenzene
Concen: 6.589 ug/L
RT: 9.873 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

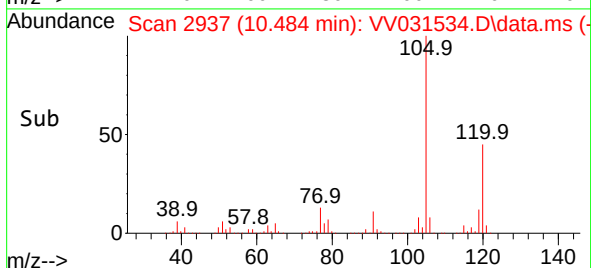
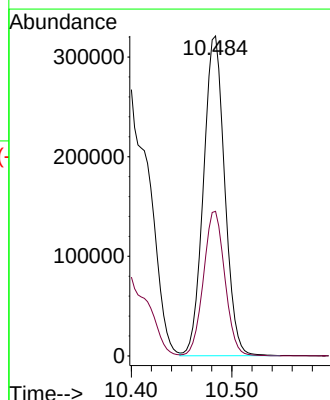
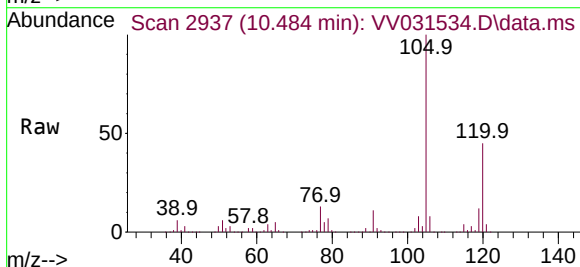
Instrument :
MSVOA_V
ClientSampleId :
EXYT2

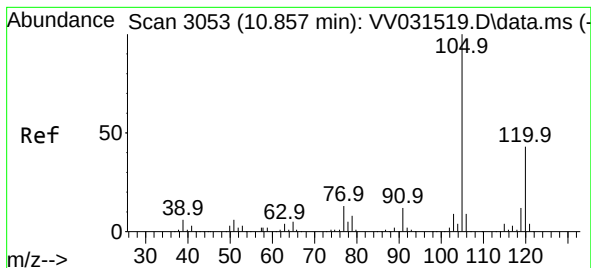
Tgt Ion:105 Resp: 51874
Ion Ratio Lower Upper
105 100
120 24.8 20.2 30.2
77 16.7 13.5 20.3



#62
1,3,5-Trimethylbenzene
Concen: 72.275 ug/L
RT: 10.484 min Scan# 2937
Delta R.T. 0.000 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Tgt Ion:105 Resp: 470302
Ion Ratio Lower Upper
105 100
120 45.7 36.2 54.2





#63

1,2,4-Trimethylbenzene

Concen: 345.823 ug/L

RT: 10.857 min Scan# 3053

Delta R.T. 0.000 min

Lab File: VV031534.D

Acq: 15 Jun 2023 16:23

Instrument :

MSVOA_V

ClientSampleId :

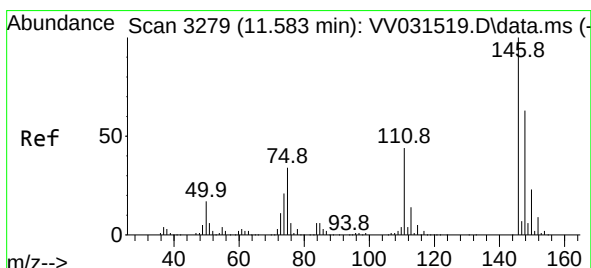
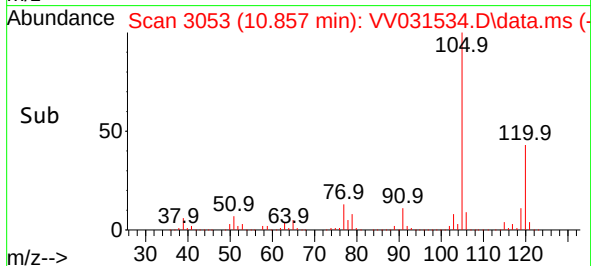
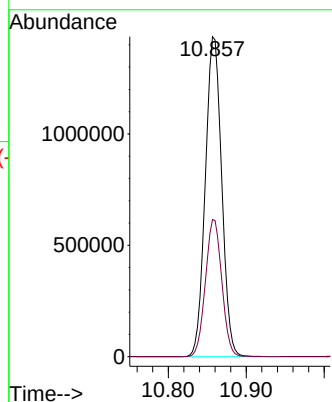
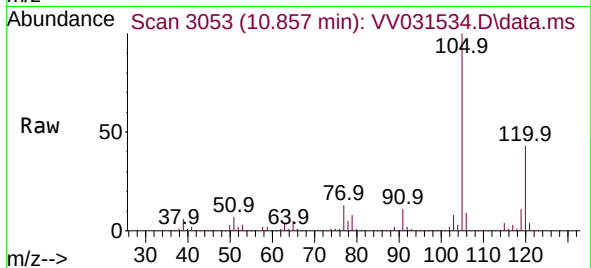
EXYT2

Tgt Ion:105 Resp: 2096724

Ion Ratio Lower Upper

105 100

120 42.8 33.4 50.2



#67

1,2-Dichlorobenzene

Concen: 1.677 ug/L

RT: 11.587 min Scan# 3280

Delta R.T. 0.003 min

Lab File: VV031534.D

Acq: 15 Jun 2023 16:23

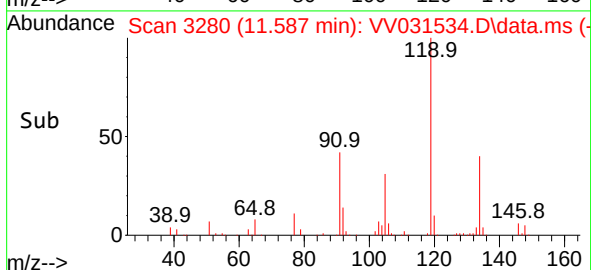
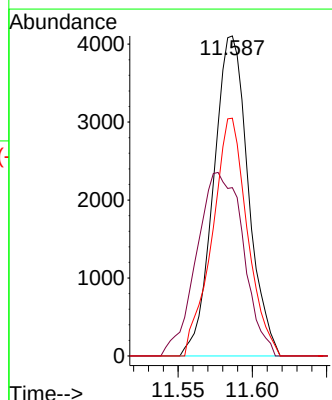
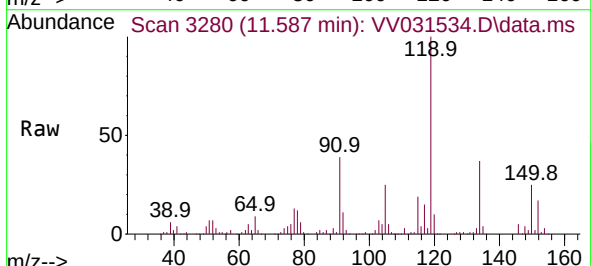
Tgt Ion:146 Resp: 6683

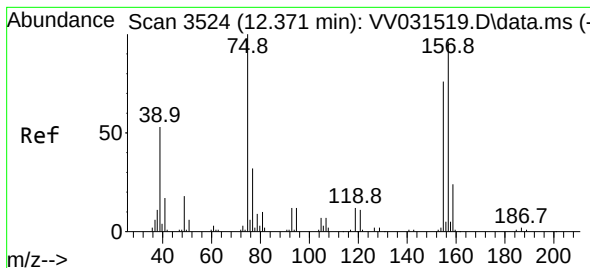
Ion Ratio Lower Upper

146 100

111 52.6 35.9 53.9

148 74.3 52.6 78.8

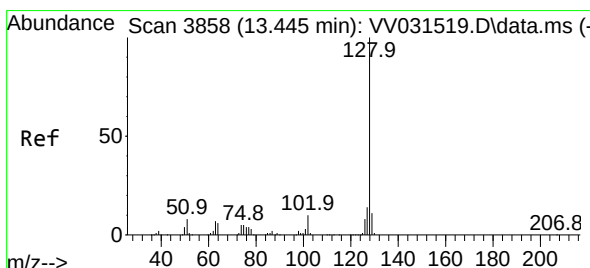
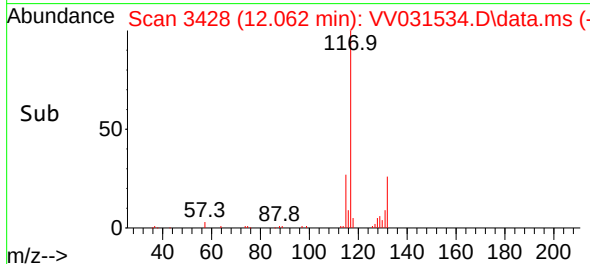
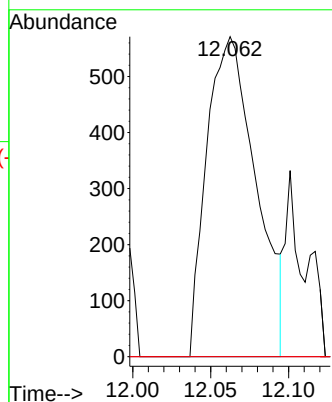
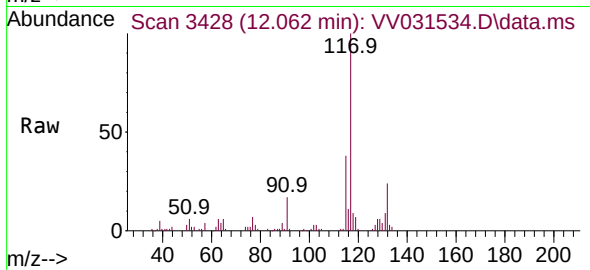




#68
1,2-Dibromo-3-chloropropane
Concen: 1.735 ug/L
RT: 12.062 min Scan# 34
Delta R.T. -0.309 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Instrument :
MSVOA_V
ClientSampleId :
EXYT2

Tgt Ion: 75 Resp: 1256
Ion Ratio Lower Upper
75 100
155 0.0 63.2 94.8#
157 0.0 85.3 127.9#



#71
Naphthalene
Concen: 17.241 ug/L
RT: 13.445 min Scan# 3858
Delta R.T. 0.000 min
Lab File: VV031534.D
Acq: 15 Jun 2023 16:23

Tgt Ion: 128 Resp: 115133
Ion Ratio Lower Upper
128 100
127 13.5 10.6 16.0
129 11.0 8.6 13.0

