

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081522\
 Data File : VX030629.D
 Acq On : 15 Aug 2022 15:48
 Operator : JC/MD
 Sample : N4181-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 X3C26

Quant Time: Aug 16 04:30:50 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML080422WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 16 04:27:08 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	6.769	114	265575	50.000	ug/L	0.00
28) Chlorobenzene-d5	10.055	117	243082	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.024	152	117465	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.368	65	87398	51.245	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	102.500%
7) Chloroethane-d5	1.666	69	61573	51.214	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	102.420%
11) 1,1-Dichloroethene-d2	2.307	63	209938	65.075	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	130.160%#
21) 2-Butanone-d5	4.471	46	167598	106.061	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.060%
24) Chloroform-d	5.068	84	187816	53.497	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.000%
26) 1,2-Dichloroethane-d4	5.964	65	130352	54.682	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	109.360%
32) Benzene-d6	5.977	84	366847	52.685	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.380%
36) 1,2-Dichloropropane-d6	7.312	67	120227	53.219	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	106.440%
41) Toluene-d8	8.653	98	342082	52.120	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.240%
43) trans-1,3-Dichloroprop...	8.952	79	53835	47.902	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.800%
47) 2-Hexanone-d5	9.391	63	114510	99.443	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.440%
56) 1,1,2,2-Tetrachloroeth...	11.195	84	151737	51.129	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	102.260%
66) 1,2-Dichlorobenzene-d4	12.323	152	115147	50.539	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.080%
Target Compounds						
5) Vinyl chloride	1.374	62	206883	112.716	ug/L	98
9) Trichlorofluoromethane	1.880	101	264458	97.491	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.313	101	2322	1.439	ug/L #	23
12) 1,1-Dichloroethene	2.319	96	116519	78.388	ug/L #	73
13) Acetone	2.392	43	6542	5.649	ug/L	54
15) Methyl Acetate	2.715	43	5612	2.341	ug/L	96
18) Methyl tert-butyl Ether	3.124	73	545569	93.159	ug/L	100
20) cis-1,2-Dichloroethene	4.495	96	90791	46.867	ug/L	99
27) 1,2-Dichloroethane	5.983	62	2518	0.864	ug/L	98
33) Benzene	6.044	78	183253	23.513	ug/L	100
34) Trichloroethene	7.129	95	162547	72.010	ug/L	88
35) Methylcyclohexane	7.385	83	338141	102.901	ug/L	98
37) 1,2-Dichloropropane	7.440	63	48932	23.613	ug/L	99
39) cis-1,3-Dichloropropene	8.330	75	3825	1.237	ug/L #	82
40) 4-Methyl-2-pentanone	8.580	43	478304	132.543	ug/L	98
44) trans-1,3-Dichloropropene	8.952	75	2568	0.849	ug/L	89
45) 1,1,2-Trichloroethane	9.153	97	65708	34.101	ug/L	98
46) Tetrachloroethene	9.275	164	80151	56.185	ug/L	97
48) 2-Hexanone	9.433	43	286359	102.131	ug/L	99

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

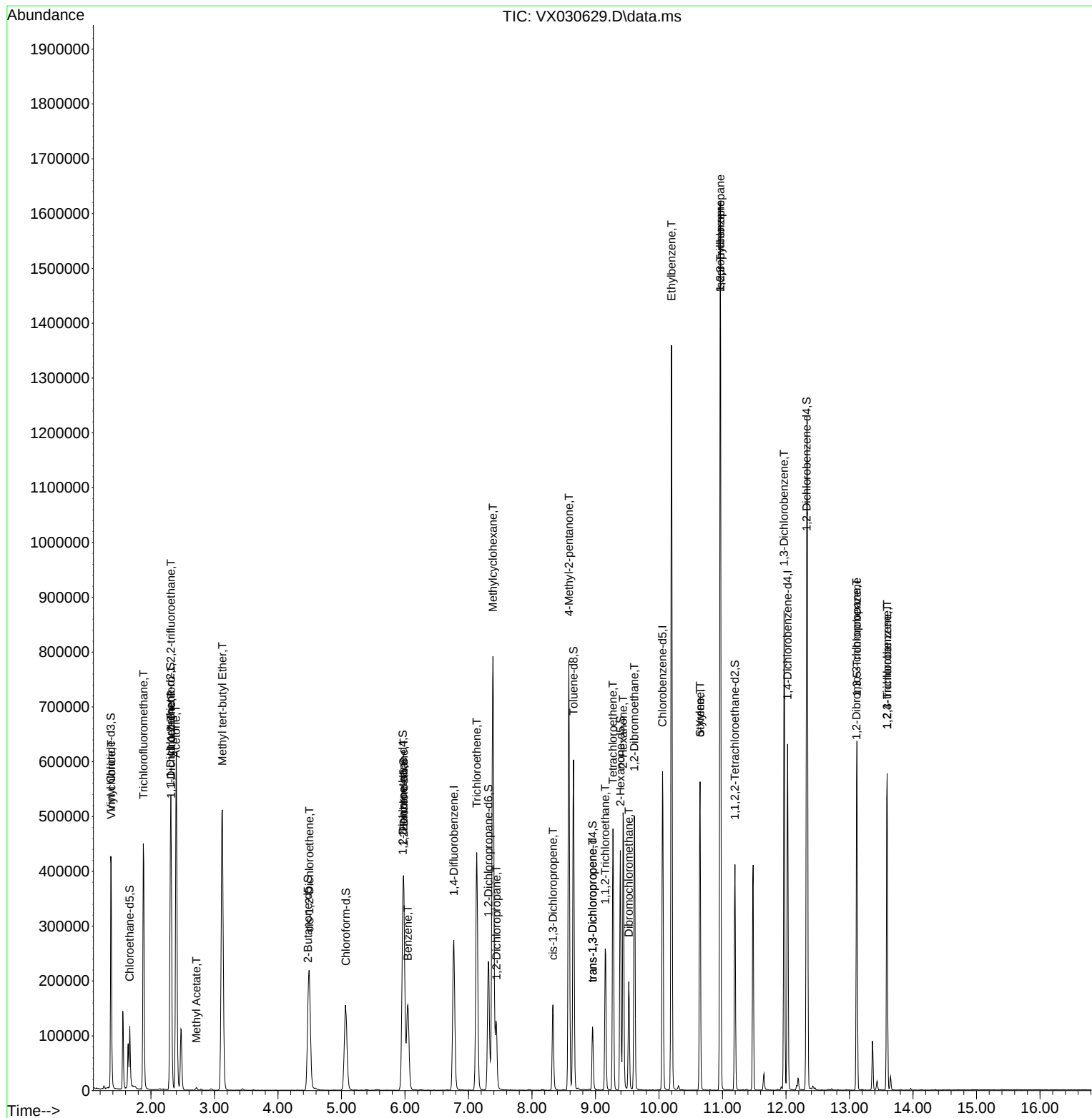
49) Dibromochloromethane	9.525	129	80836	39.433	ug/L	97
50) 1,2-Dibromoethane	9.610	107	277091	130.766	ug/L	99
52) Ethylbenzene	10.195	91	755505	84.158	ug/L	99
54) o-Xylene	10.647	106	112939	33.872	ug/L	98
55) Styrene	10.647	104	6046	1.077	ug/L #	1
60) Isopropylbenzene	10.964	105	777953	93.434	ug/L	99
61) 1,2,3-Trichloropropane	10.964	75	10492	4.159	ug/L #	1
64) 1,3-Dichlorobenzene	11.970	146	247903	68.492	ug/L	98
68) 1,2-Dibromo-3-chloropr...	13.110	75	30554	36.718	ug/L #	8
69) 1,3,5-Trichlorobenzene	13.116	180	134702	53.068	ug/L	97
70) 1,2,4-trichlorobenzene	13.591	180	121073	54.312	ug/L	96
72) 1,2,3-Trichlorobenzene	13.591	180	116735	49.575	ug/L	97

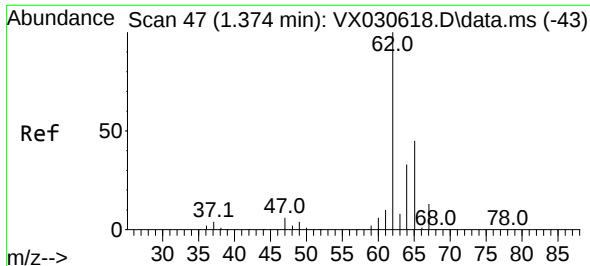
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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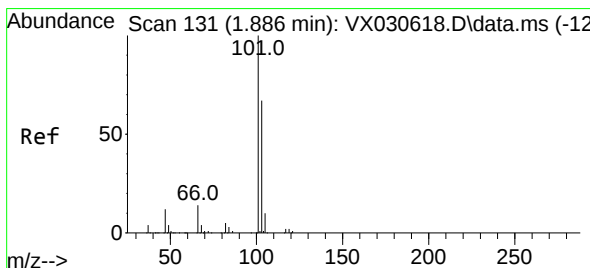
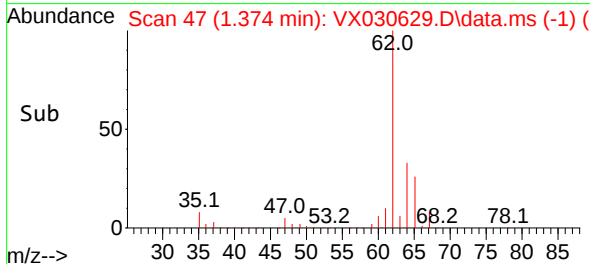
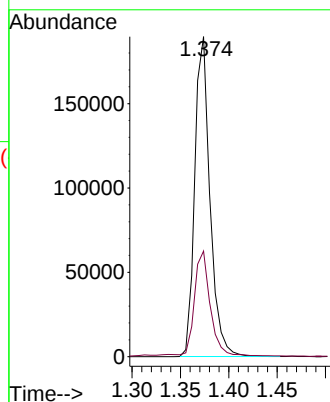
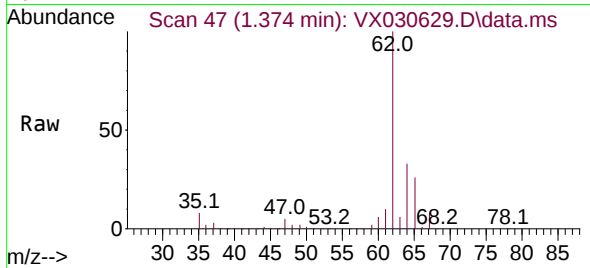




#5
 Vinyl chloride
 Concen: 112.716 ug/L
 RT: 1.374 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VX030629.D
 Acq: 15 Aug 2022 15:48

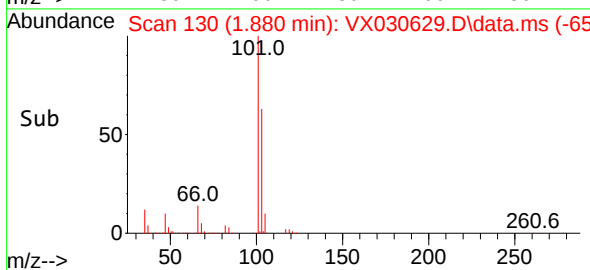
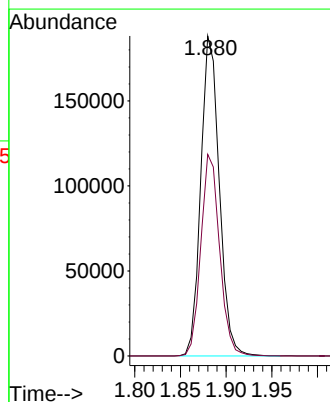
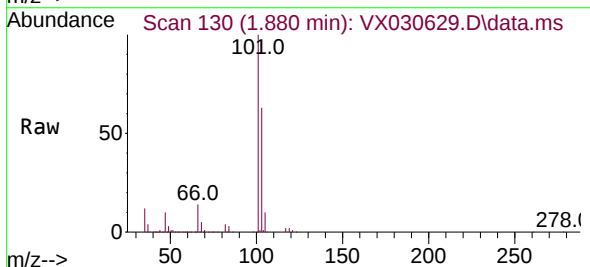
Instrument :
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 ClientSampleId :
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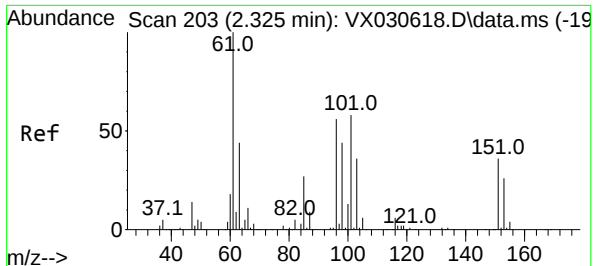
Tgt Ion: 62 Resp: 206883
 Ion Ratio Lower Upper
 62 100
 64 33.0 23.8 44.2



#9
 Trichlorofluoromethane
 Concen: 97.491 ug/L
 RT: 1.880 min Scan# 130
 Delta R.T. -0.006 min
 Lab File: VX030629.D
 Acq: 15 Aug 2022 15:48

Tgt Ion: 101 Resp: 264458
 Ion Ratio Lower Upper
 101 100
 103 63.7 51.5 77.3

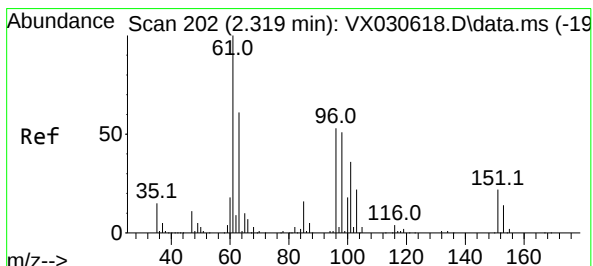
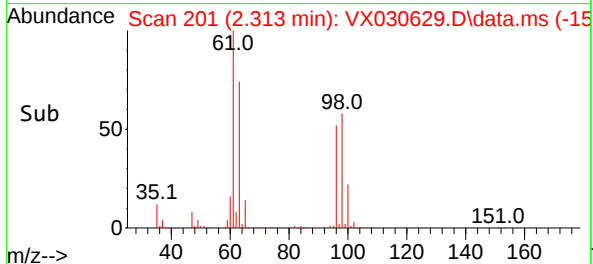
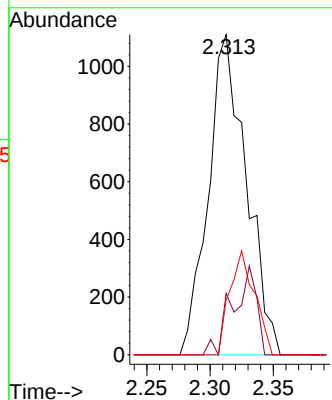
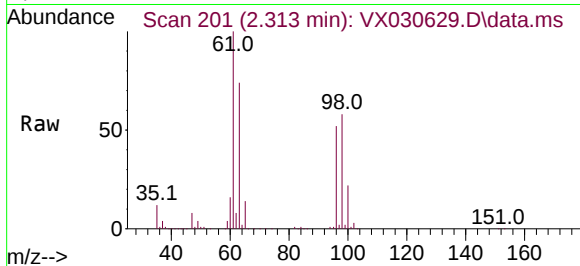




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 1.439 ug/L
 RT: 2.313 min Scan# 201
 Delta R.T. -0.012 min
 Lab File: VX030629.D
 Acq: 15 Aug 2022 15:48

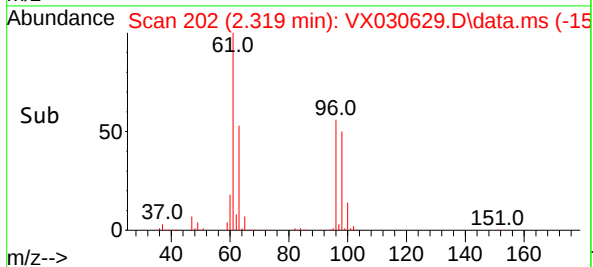
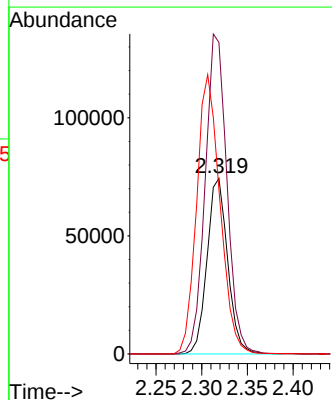
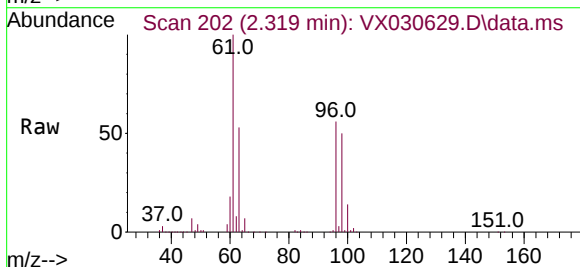
Instrument :
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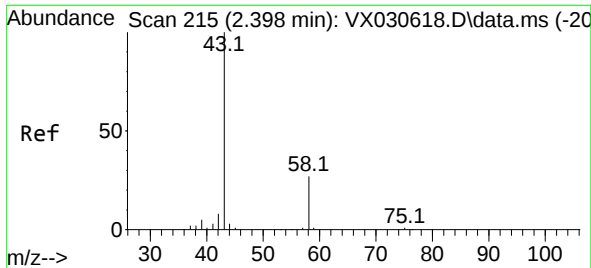
Tgt Ion:101 Resp: 2322
 Ion Ratio Lower Upper
 101 100
 85 5.7 35.3 52.9#
 151 0.0 58.3 87.5#



#12
 1,1-Dichloroethene
 Concen: 78.388 ug/L
 RT: 2.319 min Scan# 202
 Delta R.T. 0.000 min
 Lab File: VX030629.D
 Acq: 15 Aug 2022 15:48

Tgt Ion: 96 Resp: 116519
 Ion Ratio Lower Upper
 96 100
 61 177.4 130.2 241.8
 63 93.7 113.5 210.9#





#13

Acetone

Concen: 5.649 ug/L

RT: 2.392 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX030629.D

Acq: 15 Aug 2022 15:48

Instrument :

MSVOA_X

ClientSampleId :

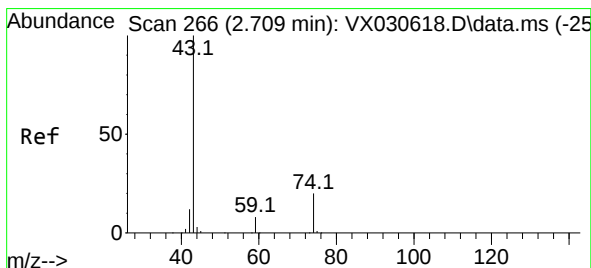
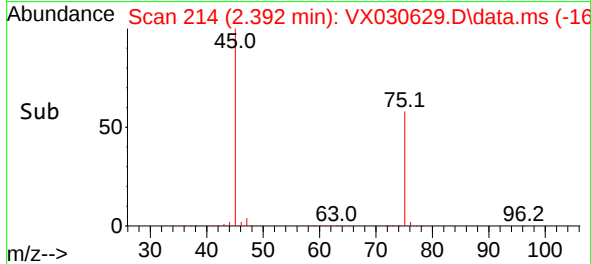
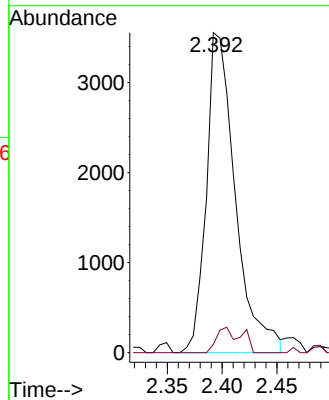
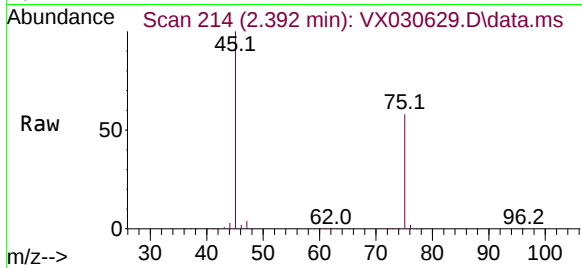
X3C26

Tgt Ion: 43 Resp: 6542

Ion Ratio Lower Upper

43 100

58 4.3 0.0 57.8



#15

Methyl Acetate

Concen: 2.341 ug/L

RT: 2.715 min Scan# 267

Delta R.T. 0.006 min

Lab File: VX030629.D

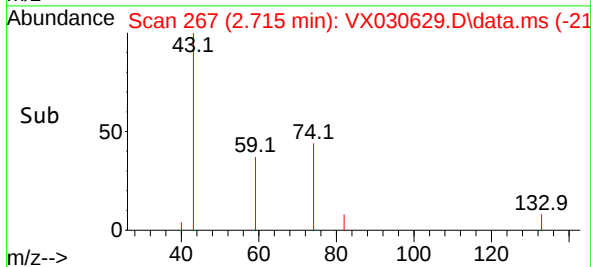
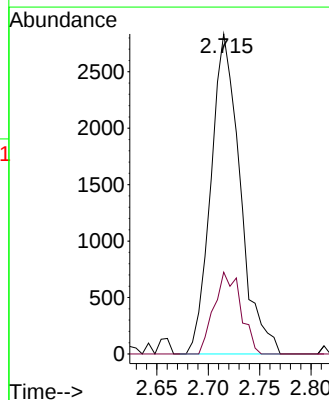
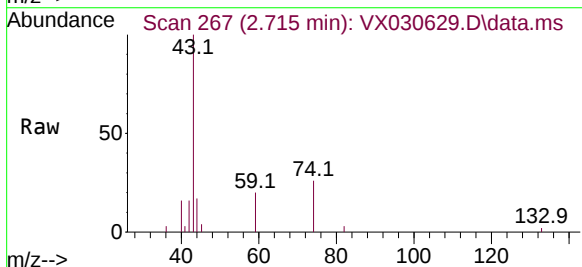
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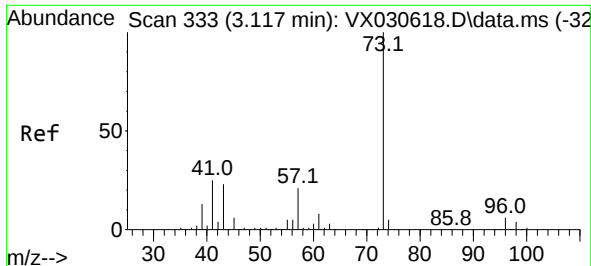
Tgt Ion: 43 Resp: 5612

Ion Ratio Lower Upper

43 100

74 23.3 17.2 25.8

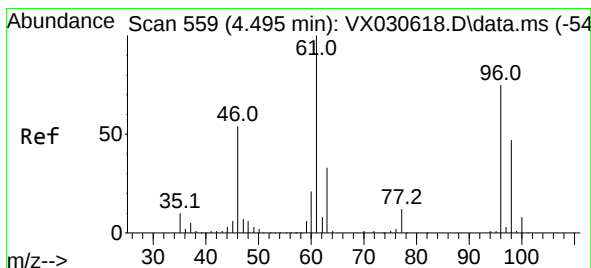
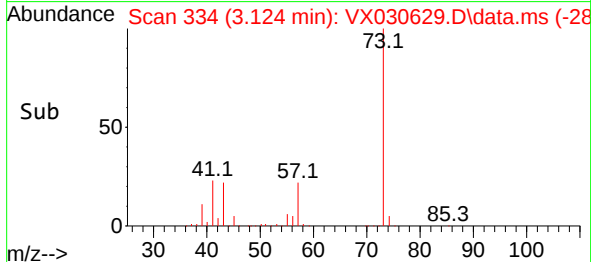
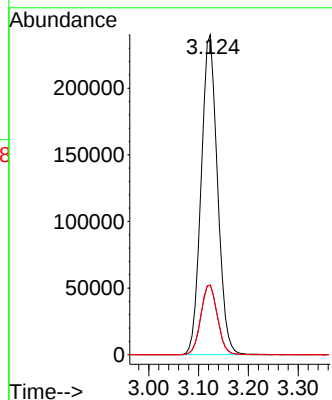
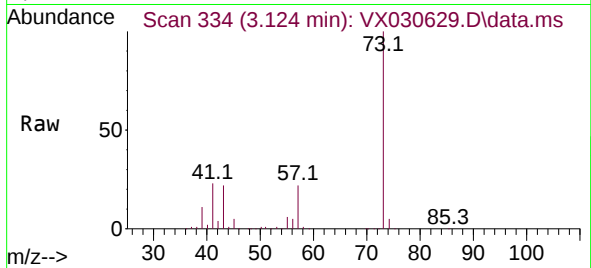




#18
Methyl tert-butyl Ether
Concen: 93.159 ug/L
RT: 3.124 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX030629.D
Acq: 15 Aug 2022 15:48

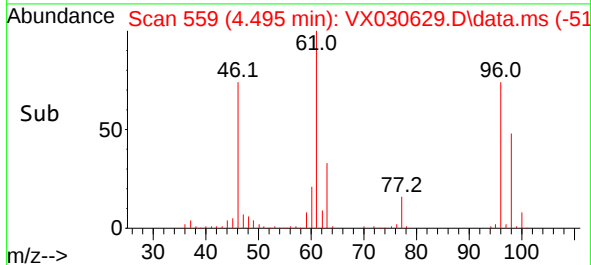
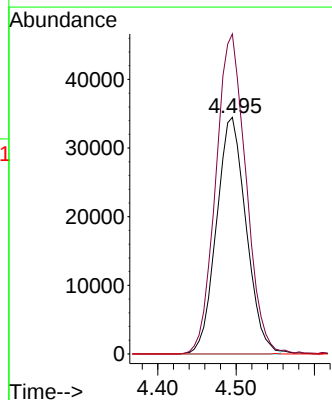
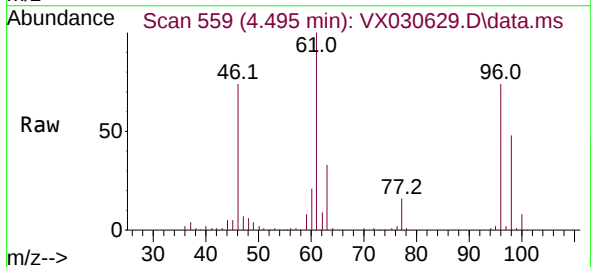
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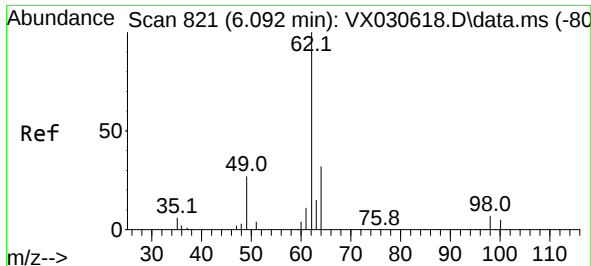
Tgt Ion: 73 Resp: 545569
Ion Ratio Lower Upper
73 100
43 22.1 17.6 26.4
57 22.3 17.5 26.3



#20
cis-1,2-Dichloroethene
Concen: 46.867 ug/L
RT: 4.495 min Scan# 559
Delta R.T. 0.000 min
Lab File: VX030629.D
Acq: 15 Aug 2022 15:48

Tgt Ion: 96 Resp: 90791
Ion Ratio Lower Upper
96 100
61 135.3 94.0 174.6
68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 0.864 ug/L

RT: 5.983 min Scan# 80

Delta R.T. -0.110 min

Lab File: VX030629.D

Acq: 15 Aug 2022 15:48

Instrument :

MSVOA_X

ClientSampleId :

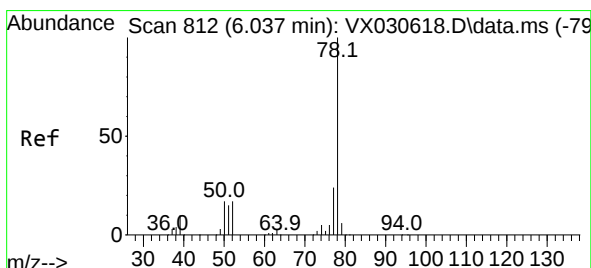
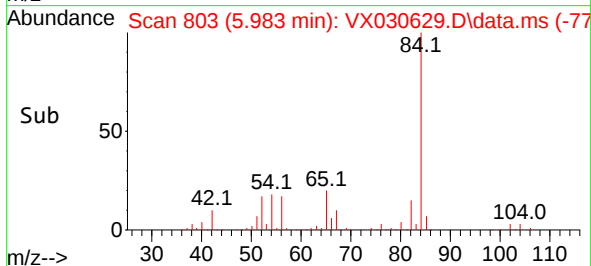
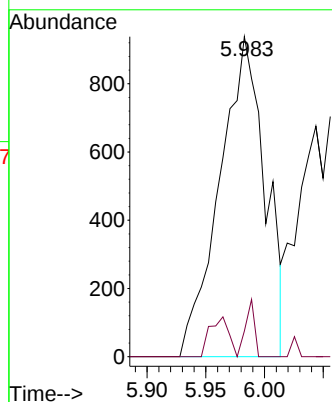
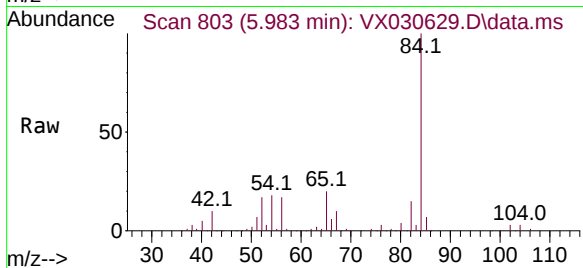
X3C26

Tgt Ion: 62 Resp: 2518

Ion Ratio Lower Upper

62 100

98 8.0 7.0 10.6



#33

Benzene

Concen: 23.513 ug/L

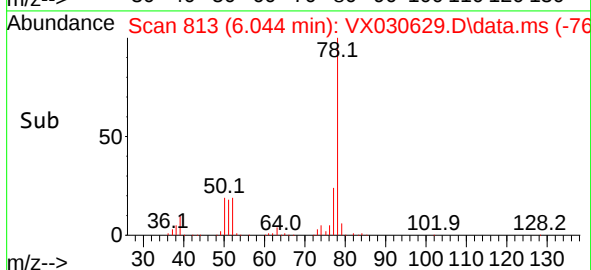
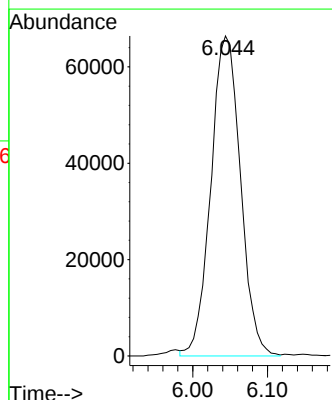
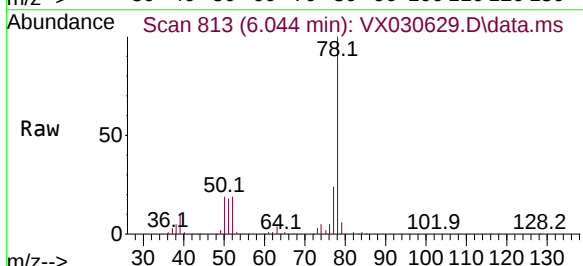
RT: 6.044 min Scan# 813

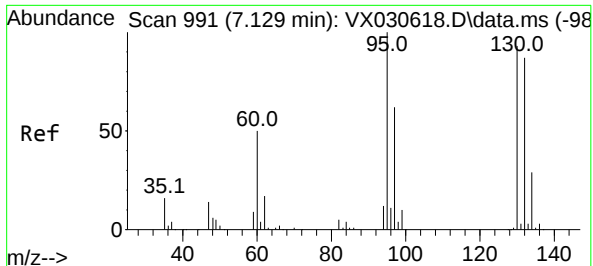
Delta R.T. 0.006 min

Lab File: VX030629.D

Acq: 15 Aug 2022 15:48

Tgt Ion: 78 Resp: 183253

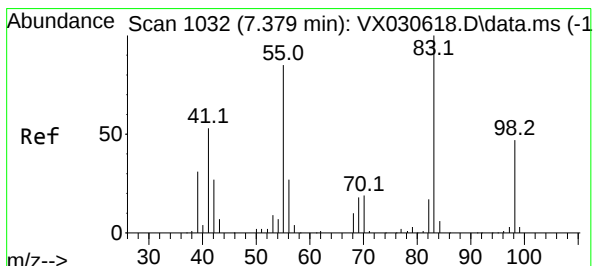
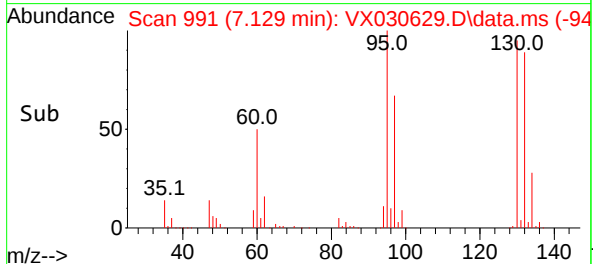
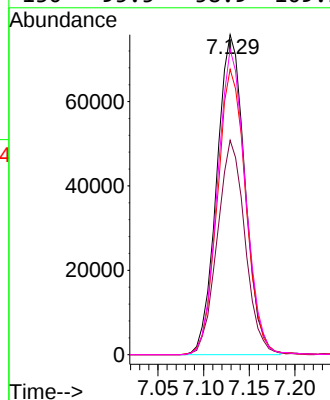
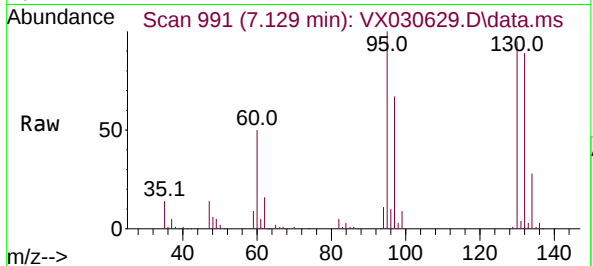




#34
Trichloroethene
Concen: 72.010 ug/L
RT: 7.129 min Scan# 991
Delta R.T. 0.000 min
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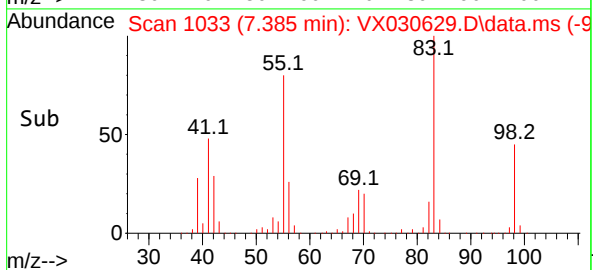
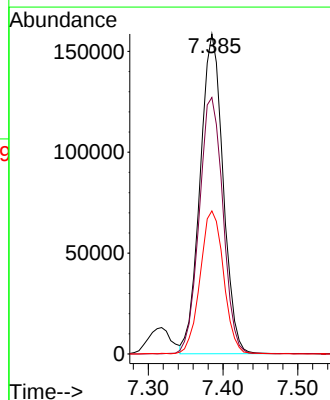
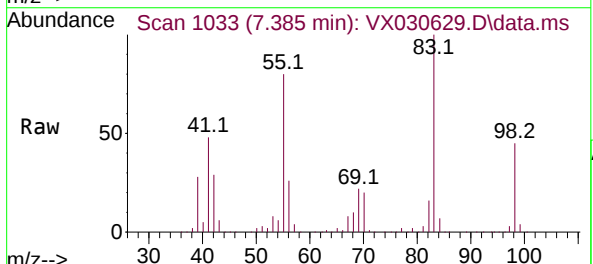
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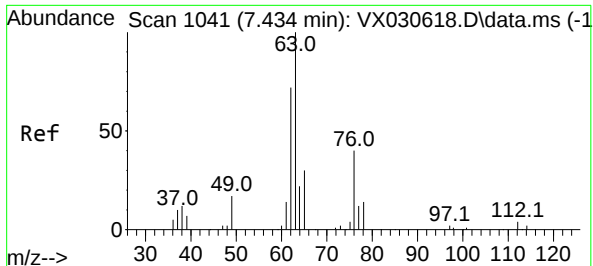
Tgt Ion: 95 Resp: 162547
Ion Ratio Lower Upper
95 100
97 67.0 40.2 74.6
132 89.2 55.3 102.7
130 95.5 58.9 109.5



#35
Methylcyclohexane
Concen: 102.901 ug/L
RT: 7.385 min Scan# 1033
Delta R.T. 0.006 min
Lab File: VX030629.D
Acq: 15 Aug 2022 15:48

Tgt Ion: 83 Resp: 338141
Ion Ratio Lower Upper
83 100
55 82.5 64.0 96.0
98 45.8 36.7 55.1





#37

1,2-Dichloropropane

Concen: 23.613 ug/L

RT: 7.440 min Scan# 1188

Delta R.T. 0.006 min

Lab File: VX030629.D

Acq: 15 Aug 2022 15:48

Instrument :

MSVOA_X

ClientSampleId :

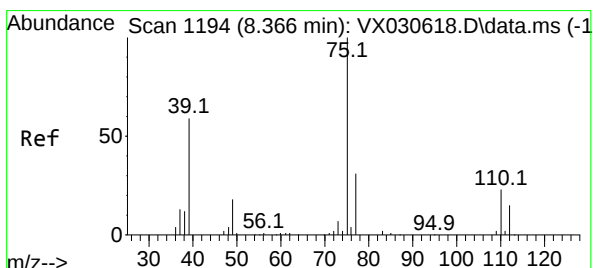
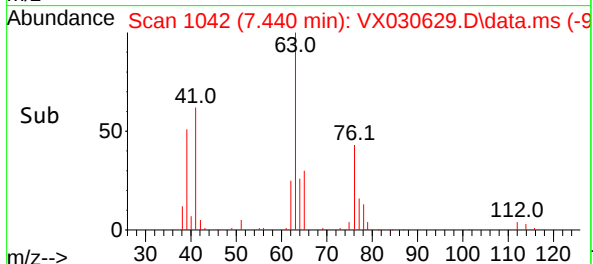
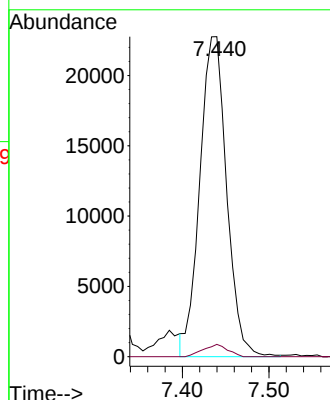
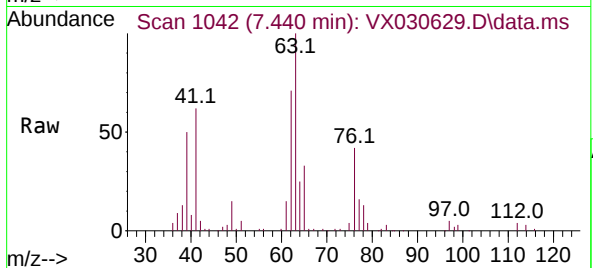
X3C26

Tgt Ion: 63 Resp: 48932

Ion Ratio Lower Upper

63 100

112 3.5 3.0 4.4



#39

cis-1,3-Dichloropropene

Concen: 1.237 ug/L

RT: 8.330 min Scan# 1188

Delta R.T. -0.036 min

Lab File: VX030629.D

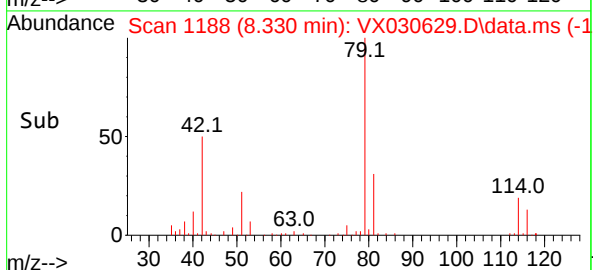
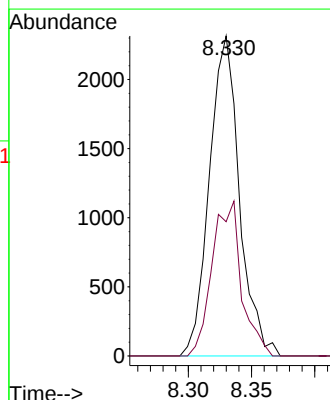
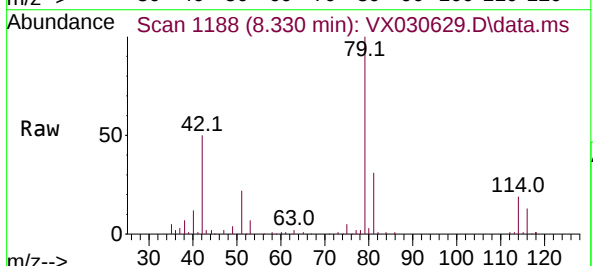
Acq: 15 Aug 2022 15:48

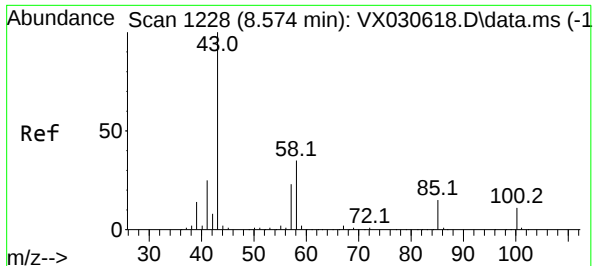
Tgt Ion: 75 Resp: 3825

Ion Ratio Lower Upper

75 100

77 41.9 22.4 41.6#





#40

4-Methyl-2-pentanone

Concen: 132.543 ug/L

RT: 8.580 min Scan# 1228

Delta R.T. 0.006 min

Lab File: VX030629.D

Acq: 15 Aug 2022 15:48

Instrument :

MSVOA_X

ClientSampleId :

X3C26

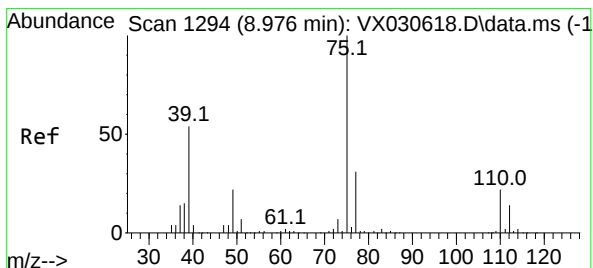
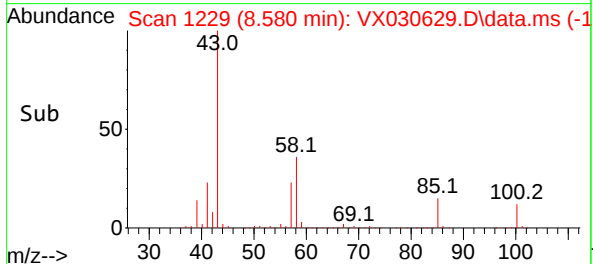
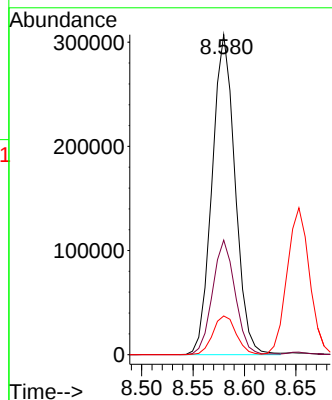
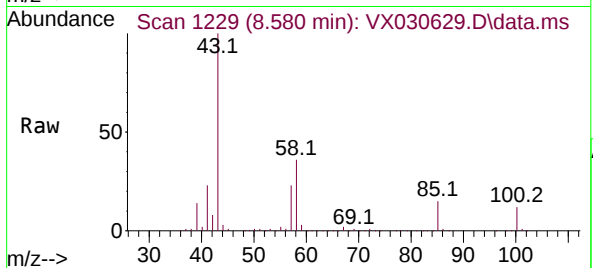
Tgt Ion: 43 Resp: 478304

Ion Ratio Lower Upper

43 100

58 35.2 29.0 43.6

100 12.3 10.5 15.7



#44

trans-1,3-Dichloropropene

Concen: 0.849 ug/L

RT: 8.952 min Scan# 1290

Delta R.T. -0.024 min

Lab File: VX030629.D

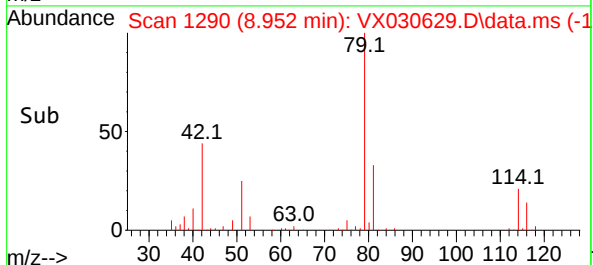
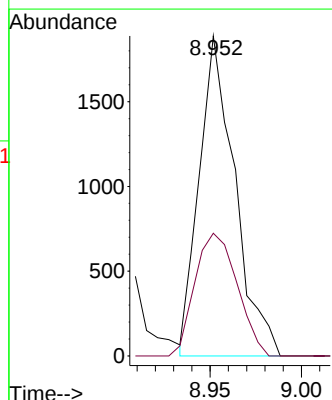
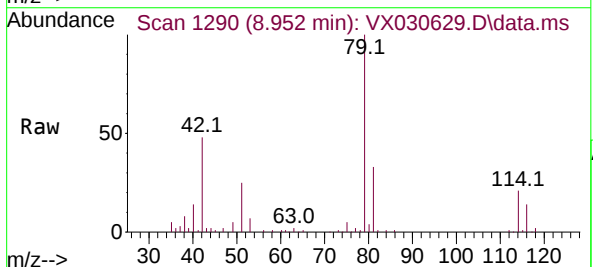
Acq: 15 Aug 2022 15:48

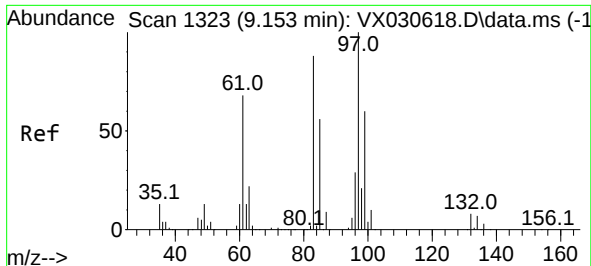
Tgt Ion: 75 Resp: 2568

Ion Ratio Lower Upper

75 100

77 38.3 22.5 41.7



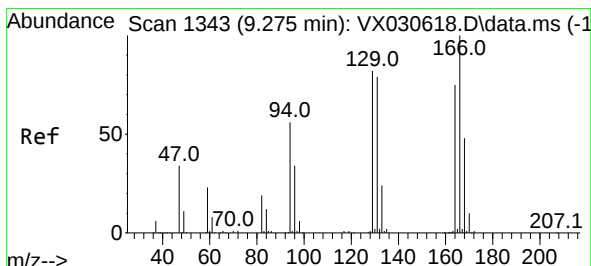
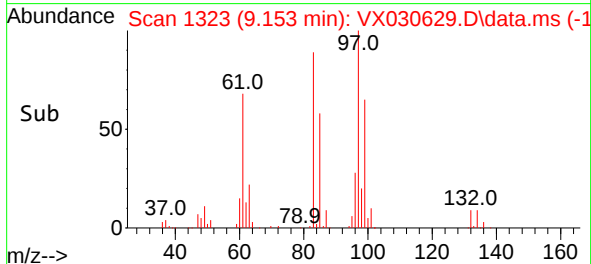
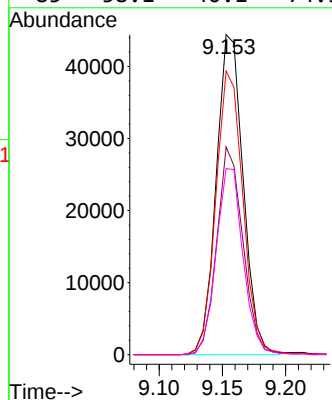
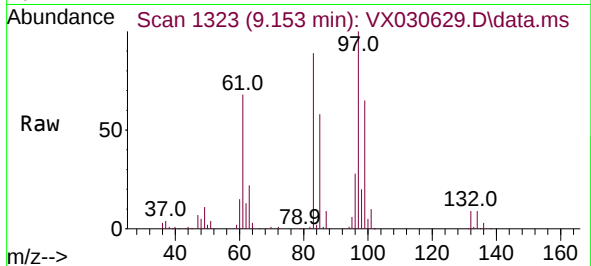


#45
1,1,2-Trichloroethane
Concen: 34.101 ug/L
RT: 9.153 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX030629.D
Acq: 15 Aug 2022 15:48

Instrument :
MSVOA_X
ClientSampleId :
X3C26

Tgt Ion: 97 Resp: 65708

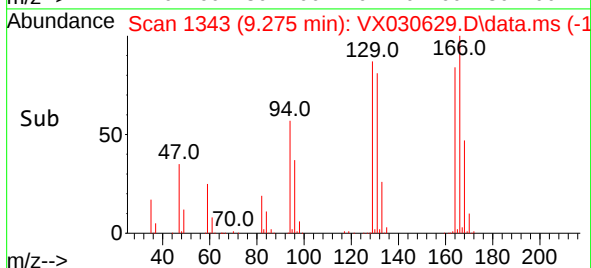
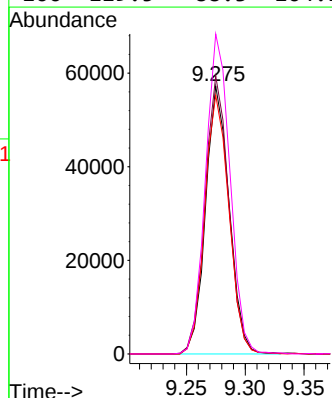
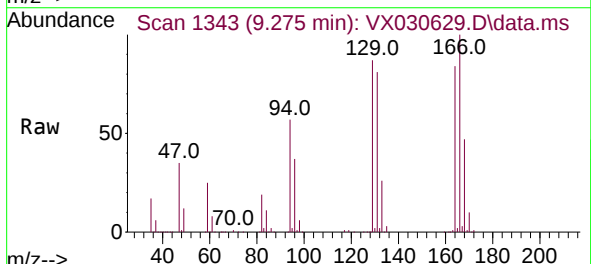
Ion	Ratio	Lower	Upper
97	100		
99	64.9	43.3	80.3
83	88.6	63.0	117.0
85	58.1	40.1	74.5

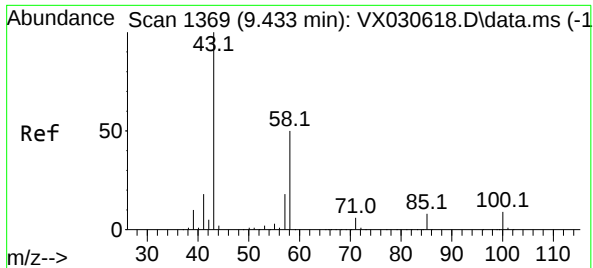


#46
Tetrachloroethene
Concen: 56.185 ug/L
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX030629.D
Acq: 15 Aug 2022 15:48

Tgt Ion: 164 Resp: 80151

Ion	Ratio	Lower	Upper
164	100		
129	103.8	72.7	135.1
131	96.6	69.9	129.9
166	119.5	88.3	164.1



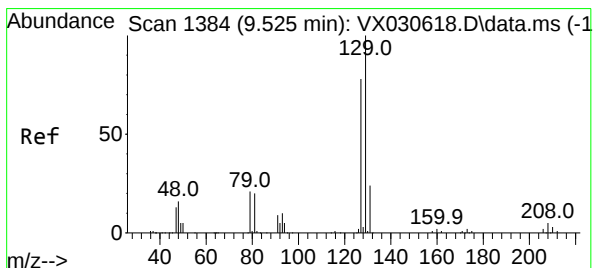
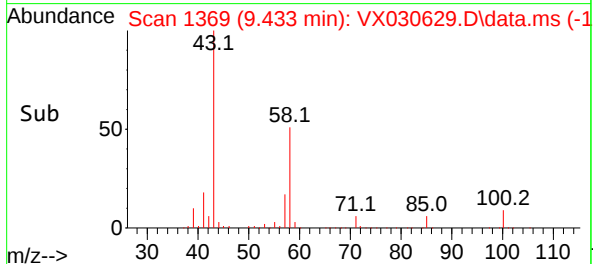
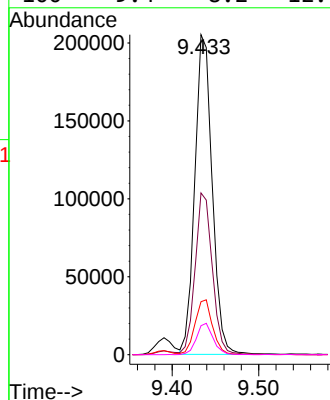
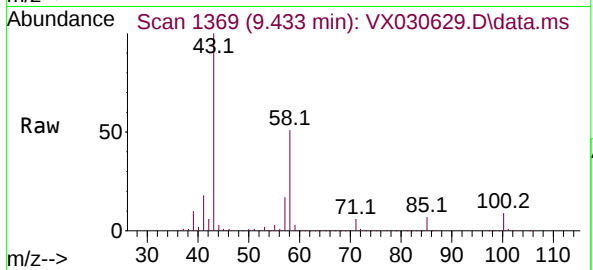


#48
2-Hexanone
Concen: 102.131 ug/L
RT: 9.433 min Scan# 1369
Delta R.T. 0.000 min
Lab File: VX030629.D
Acq: 15 Aug 2022 15:48

Instrument :
MSVOA_X
ClientSampleId :
X3C26

Tgt Ion: 43 Resp: 286359

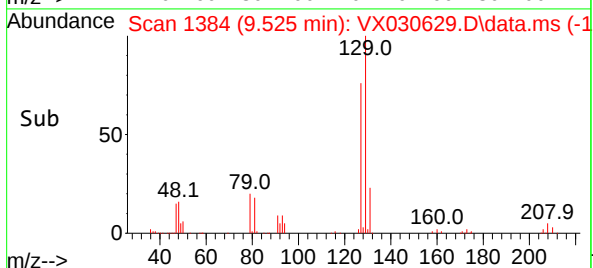
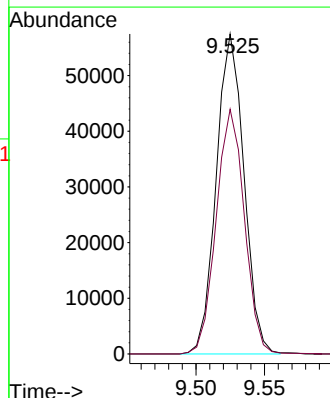
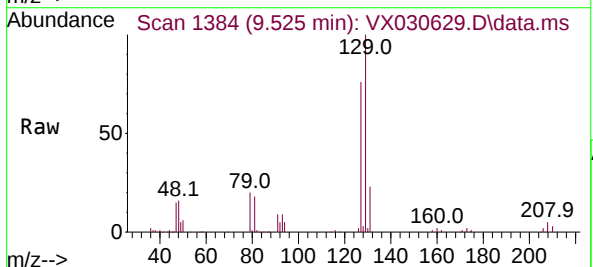
Ion	Ratio	Lower	Upper
43	100		
58	49.9	40.4	60.6
57	17.4	14.6	22.0
100	9.4	8.2	12.4

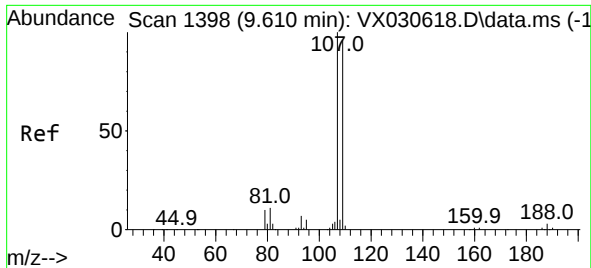


#49
Dibromochloromethane
Concen: 39.433 ug/L
RT: 9.525 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VX030629.D
Acq: 15 Aug 2022 15:48

Tgt Ion: 129 Resp: 80836

Ion	Ratio	Lower	Upper
129	100		
127	76.5	55.6	103.2

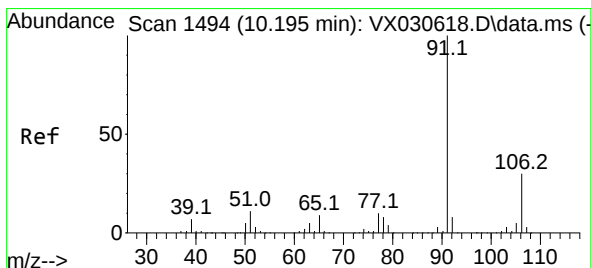
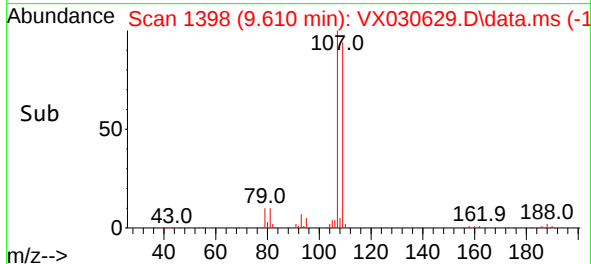
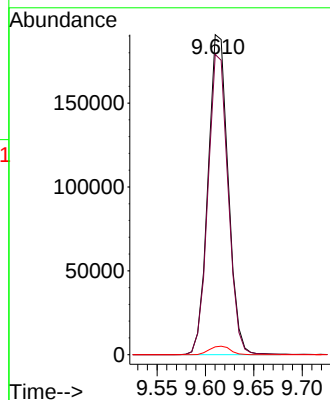
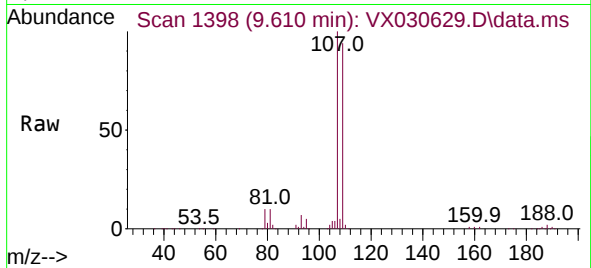




#50
 1,2-Dibromoethane
 Concen: 130.766 ug/L
 RT: 9.610 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX030629.D
 Acq: 15 Aug 2022 15:48

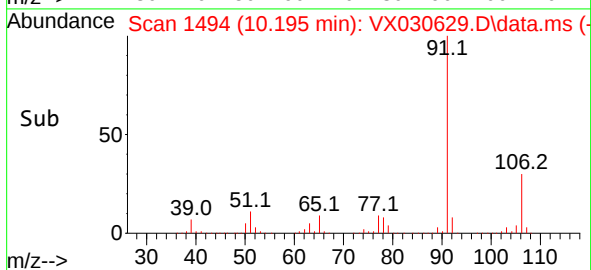
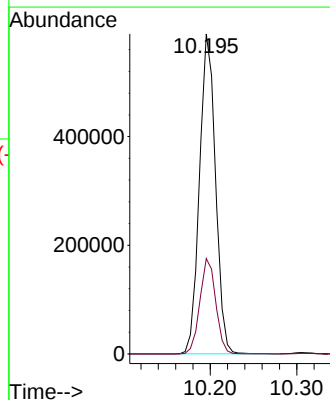
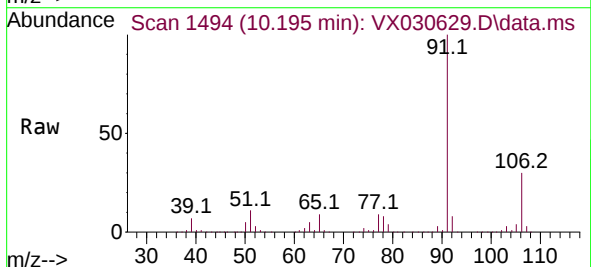
Instrument :
 MSVOA_X
 ClientSampleId :
 X3C26

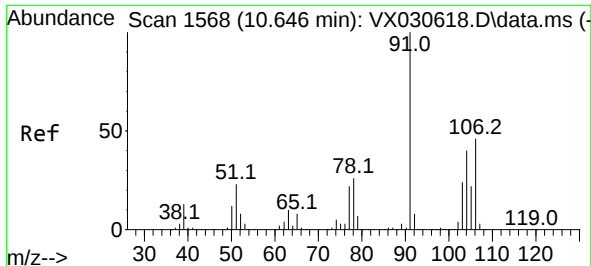
Tgt Ion:107 Resp: 277091
 Ion Ratio Lower Upper
 107 100
 109 93.8 64.8 120.4
 188 2.5 2.2 3.2



#52
 Ethylbenzene
 Concen: 84.158 ug/L
 RT: 10.195 min Scan# 1494
 Delta R.T. 0.000 min
 Lab File: VX030629.D
 Acq: 15 Aug 2022 15:48

Tgt Ion: 91 Resp: 755505
 Ion Ratio Lower Upper
 91 100
 106 29.8 21.3 39.5

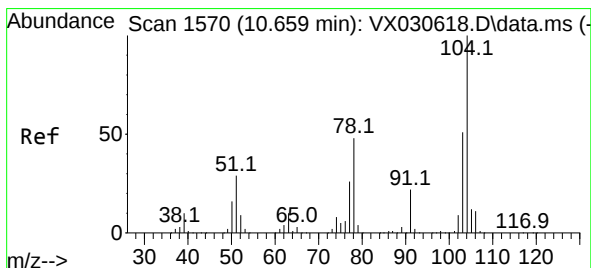
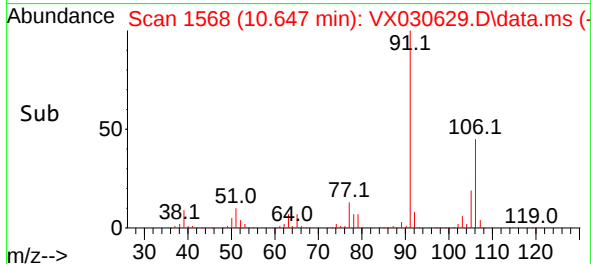
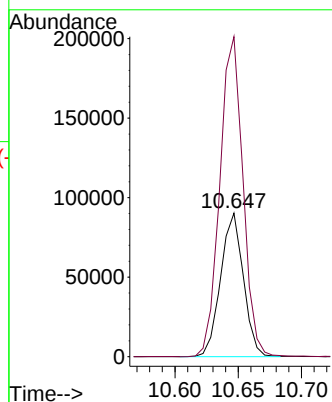
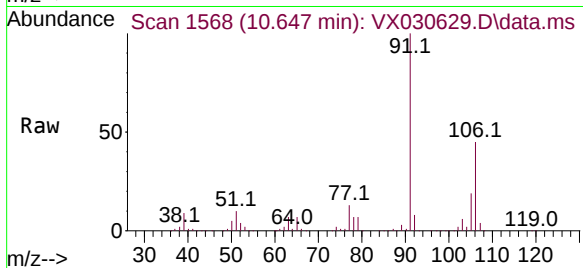




#54
o-Xylene
Concen: 33.872 ug/L
RT: 10.647 min Scan# 1568
Delta R.T. 0.000 min
Lab File: VX030629.D
Acq: 15 Aug 2022 15:48

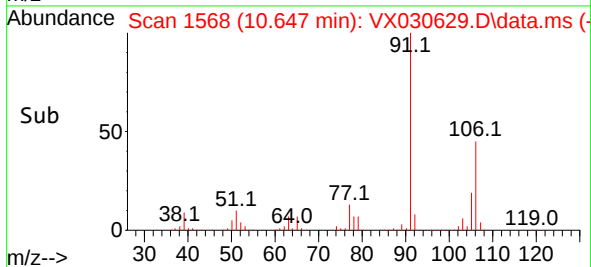
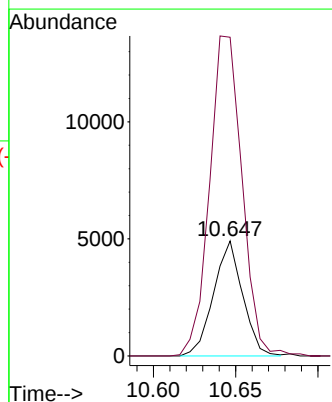
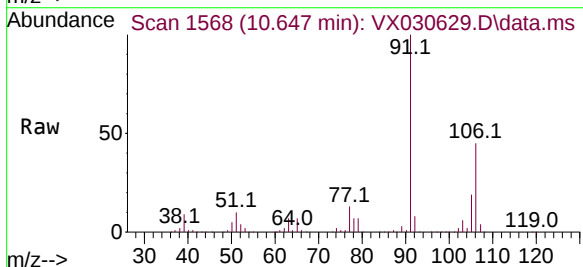
Instrument :
MSVOA_X
ClientSampleId :
X3C26

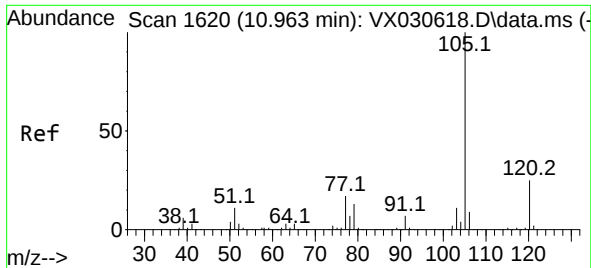
Tgt Ion:106 Resp: 112939
Ion Ratio Lower Upper
106 100
91 222.9 157.8 293.0



#55
Styrene
Concen: 1.077 ug/L
RT: 10.647 min Scan# 1568
Delta R.T. -0.012 min
Lab File: VX030629.D
Acq: 15 Aug 2022 15:48

Tgt Ion:104 Resp: 6046
Ion Ratio Lower Upper
104 100
78 277.0 33.2 61.7#

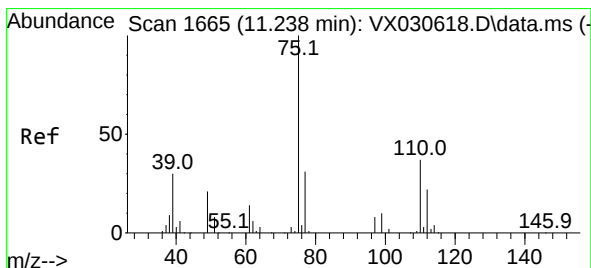
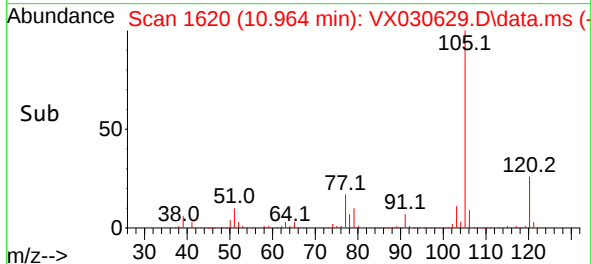
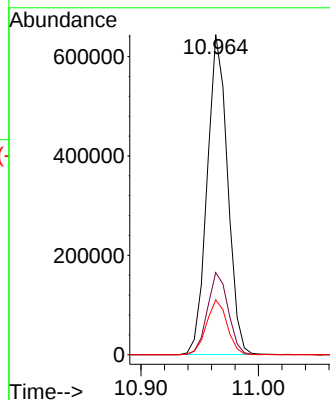
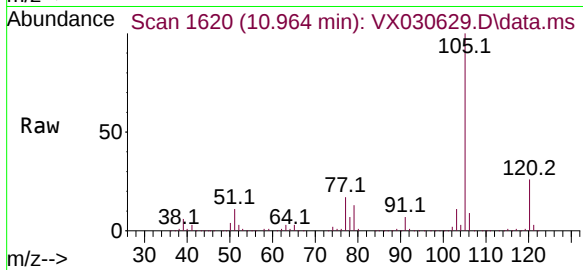




#60
Isopropylbenzene
Concen: 93.434 ug/L
RT: 10.964 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX030629.D
Acq: 15 Aug 2022 15:48

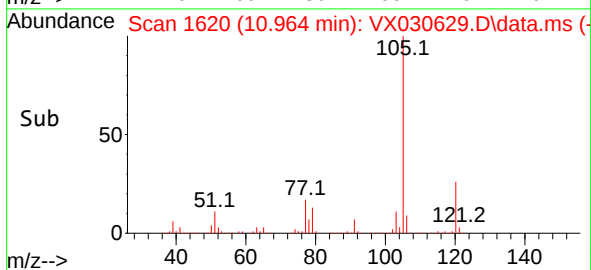
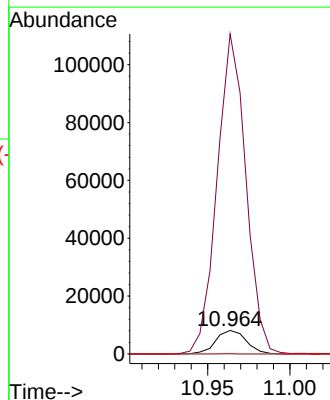
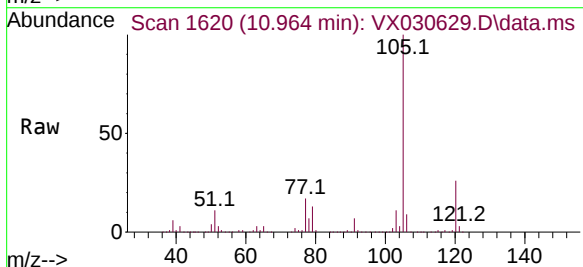
Instrument :
MSVOA_X
ClientSampleId :
X3C26

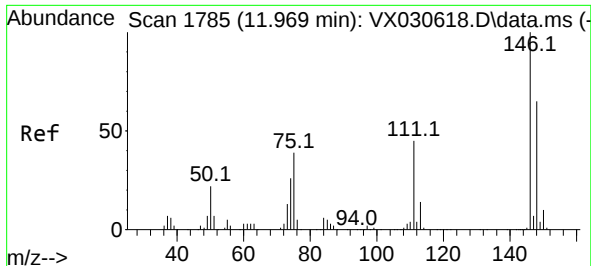
Tgt Ion:105 Resp: 777953
Ion Ratio Lower Upper
105 100
120 26.0 20.6 31.0
77 17.3 13.5 20.3



#61
1,2,3-Trichloropropane
Concen: 4.159 ug/L
RT: 10.964 min Scan# 1620
Delta R.T. -0.274 min
Lab File: VX030629.D
Acq: 15 Aug 2022 15:48

Tgt Ion: 75 Resp: 10492
Ion Ratio Lower Upper
75 100
77 1282.6 26.1 39.1#
110 0.6 30.5 45.7#

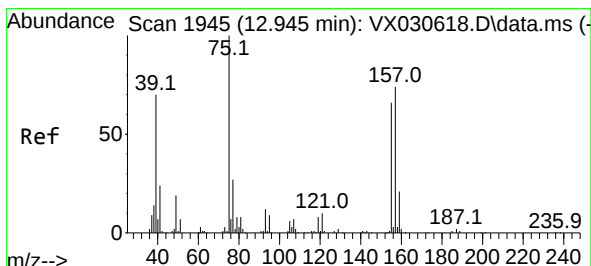
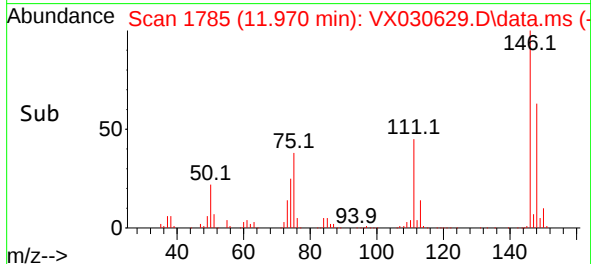
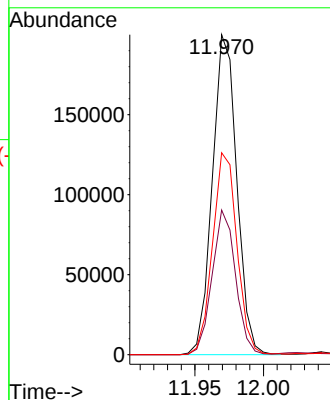
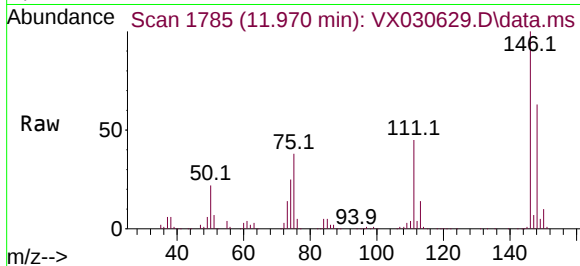




#64
 1,3-Dichlorobenzene
 Concen: 68.492 ug/L
 RT: 11.970 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX030629.D
 Acq: 15 Aug 2022 15:48

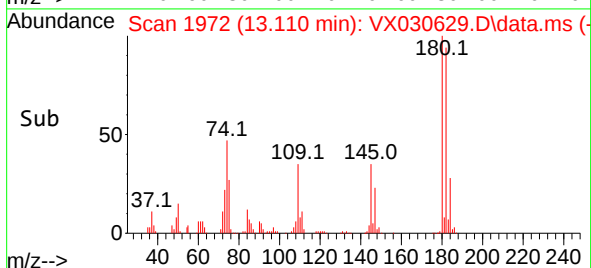
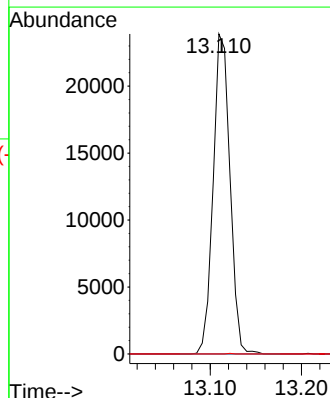
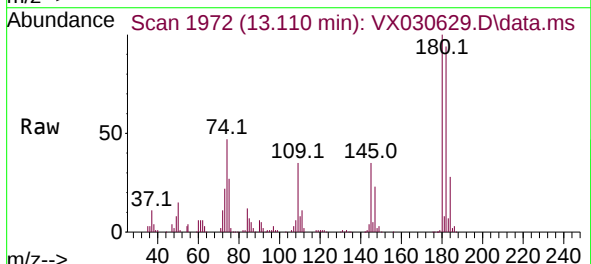
Instrument :
 MSVOA_X
 ClientSampleId :
 X3C26

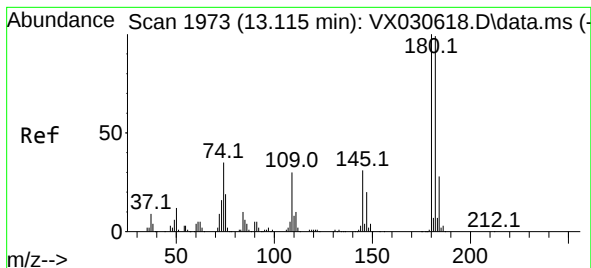
Tgt Ion:146 Resp: 247903
 Ion Ratio Lower Upper
 146 100
 111 45.2 30.9 57.5
 148 63.1 42.6 79.0



#68
 1,2-Dibromo-3-chloropropane
 Concen: 36.718 ug/L
 RT: 13.110 min Scan# 1972
 Delta R.T. 0.165 min
 Lab File: VX030629.D
 Acq: 15 Aug 2022 15:48

Tgt Ion: 75 Resp: 30554
 Ion Ratio Lower Upper
 75 100
 155 0.0 57.1 85.7#
 157 0.0 73.1 109.7#





#69

1,3,5-Trichlorobenzene

Concen: 53.068 ug/L

RT: 13.116 min Scan# 1973

Delta R.T. 0.000 min

Lab File: VX030629.D

Acq: 15 Aug 2022 15:48

Instrument :

MSVOA_X

ClientSampleId :

X3C26

Tgt Ion:180 Resp: 134702

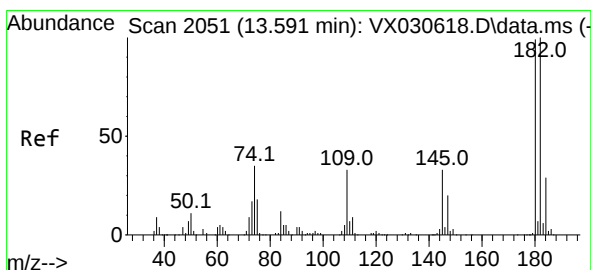
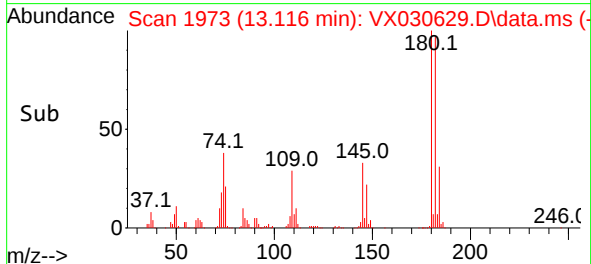
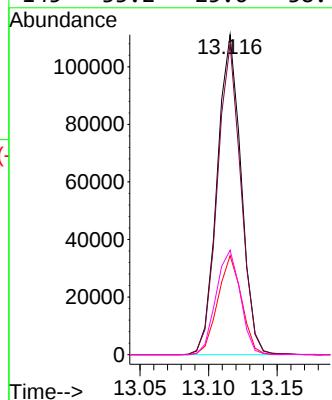
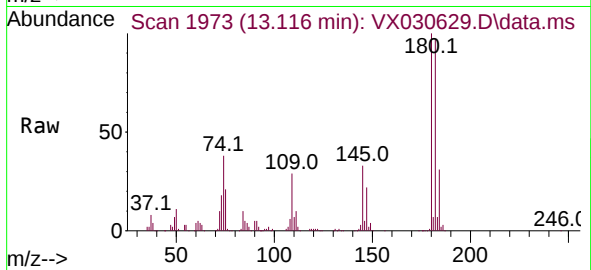
Ion Ratio Lower Upper

180 100

182 95.3 73.7 110.5

184 30.8 24.1 36.1

145 33.2 25.6 38.4



#70

1,2,4-trichlorobenzene

Concen: 54.312 ug/L

RT: 13.591 min Scan# 2051

Delta R.T. 0.000 min

Lab File: VX030629.D

Acq: 15 Aug 2022 15:48

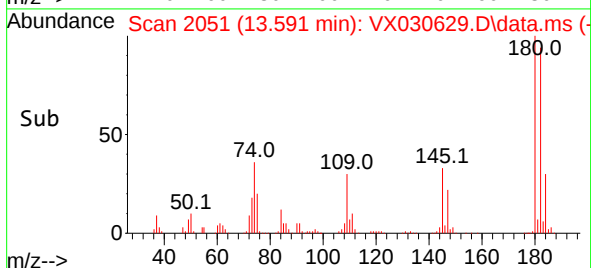
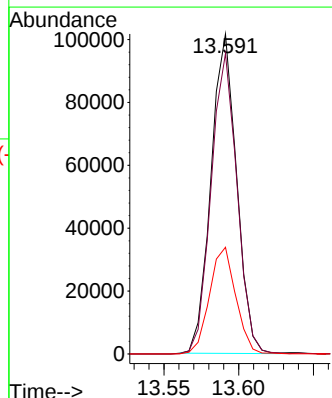
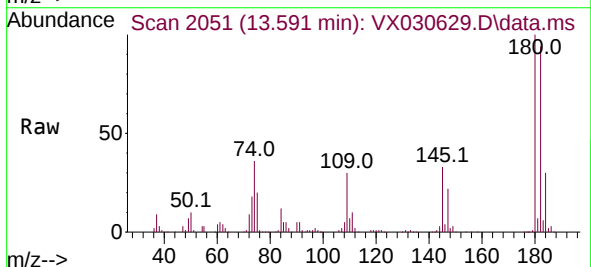
Tgt Ion:180 Resp: 121073

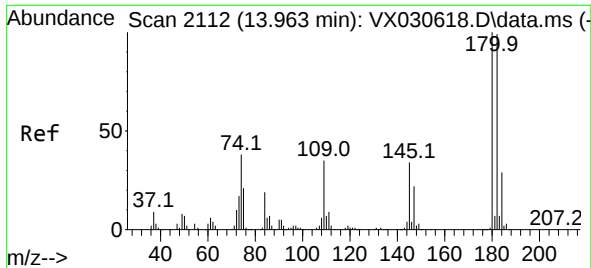
Ion Ratio Lower Upper

180 100

182 94.9 72.7 109.1

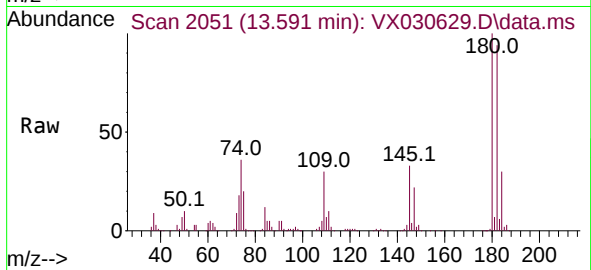
145 34.3 26.6 40.0





#72
 1,2,3-Trichlorobenzene
 Concen: 49.575 ug/L
 RT: 13.591 min Scan# 20
 Delta R.T. -0.372 min
 Lab File: VX030629.D
 Acq: 15 Aug 2022 15:48

Instrument :
 MSVOA_X
 ClientSampleId :
 X3C26



Tgt Ion:	180	Resp:	116735
Ion Ratio	Lower	Upper	
180	100		
182	95.6	74.6	112.0
145	33.6	28.4	42.6

