

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW010522\
 Data File : VW024282.D
 Acq On : 05 Jan 2022 16:56
 Operator : SY/MD
 Sample : N1025-10
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BGLH4

Quant Time: Jan 06 01:01:22 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM123121WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Jan 06 00:59:13 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.612	114	259159	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.850	117	237469	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.246	152	136899	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	82767	44.376	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.760%
7) Chloroethane-d5	1.568	69	65152	45.983	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.960%
11) 1,1-Dichloroethene-d2	2.108	63	120621	34.603	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.200%
21) 2-Butanone-d5	3.876	46	101547	97.721	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.720%
24) Chloroform-d	4.342	84	151091	44.324	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.640%
26) 1,2-Dichloroethane-d4	5.027	65	104180	45.647	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.300%
32) Benzene-d6	5.047	84	294112	47.461	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.920%
36) 1,2-Dichloropropane-d6	6.066	67	81893	47.154	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.300%
41) Toluene-d8	7.313	98	282726	47.121	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.240%
43) trans-1,3-Dichloroprop...	7.619	79	45728	45.726	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.460%
47) 2-Hexanone-d5	8.082	63	78877	104.538	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.540%
56) 1,1,2,2-Tetrachloroeth...	10.214	84	115924	46.708	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.420%
66) 1,2-Dichlorobenzene-d4	11.622	152	131123	48.053	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.100%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.314	62	65461	35.220	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.111	101	1157	0.709	ug/L #	16
12) 1,1-Dichloroethene	2.114	96	2240	1.419	ug/L #	1
13) Acetone	2.172	43	152683	148.817	ug/L	99
17) trans-1,2-Dichloroethene	2.764	96	5875	3.612	ug/L	92
19) 1,1-Dichloroethane	3.188	63	56897	21.088	ug/L	96
20) cis-1,2-Dichloroethene	3.905	96	547727	315.280	ug/L	99
22) 2-Butanone	3.963	43	76185	69.904	ug/L	94
27) 1,2-Dichloroethane	5.127	62	24100	9.393	ug/L	96
29) Cyclohexane	4.677	56	2235	1.053	ug/L #	95
33) Benzene	5.095	78	856521	141.850	ug/L	100
35) Methylcyclohexane	6.066	83	22111	8.954	ug/L #	20
39) cis-1,3-Dichloropropene	6.982	75	3225	1.351	ug/L #	70
40) 4-Methyl-2-pentanone	7.230	43	12266	6.623	ug/L	97
42) Toluene	7.384	91	2680104	395.409	ug/L	99
44) trans-1,3-Dichloropropene	7.616	75	2375	0.981	ug/L	93
51) Chlorobenzene	8.879	112	65720	14.395	ug/L	99
52) Ethylbenzene	9.008	91	1630923	225.231	ug/L	100
53) m,p-Xylene	9.136	106	957296	329.818	ug/L	97

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

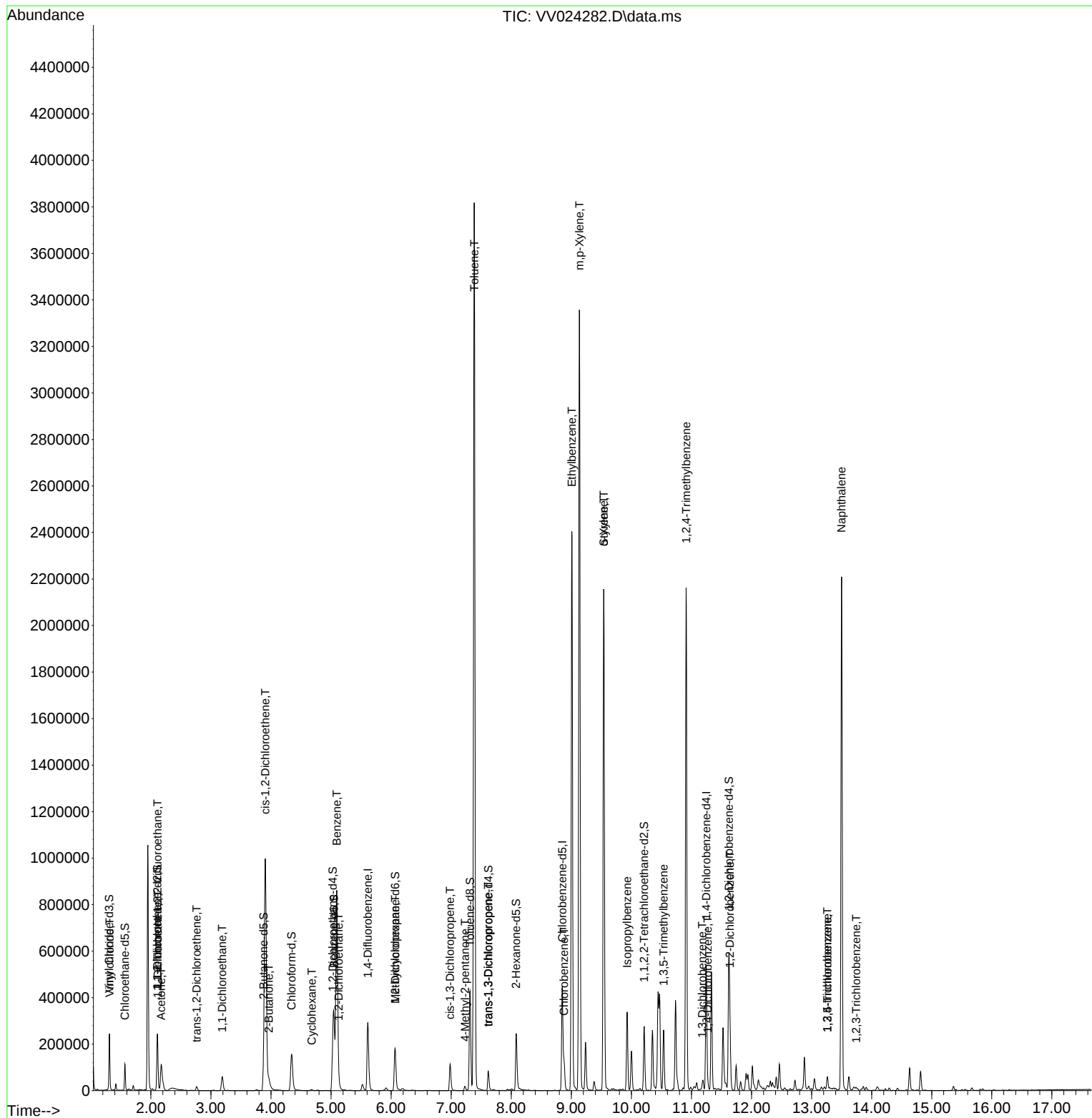
54) o-Xylene	9.542	106	566054	204.301	ug/L	98
55) Styrene	9.542	104	33742	7.013	ug/L #	1
60) Isopropylbenzene	9.931	105	216654	28.600	ug/L	99
62) 1,3,5-Trimethylbenzene	10.535	105	132135	20.278	ug/L	100
63) 1,2,4-Trimethylbenzene	10.911	105	1135087	174.483	ug/L	100
64) 1,3-Dichlorobenzene	11.181	146	3874	0.992	ug/L	94
65) 1,4-Dichlorobenzene	11.271	146	9720	2.413	ug/L	99
67) 1,2-Dichlorobenzene	11.641	146	93278	23.172	ug/L	98
69) 1,3,5-Trichlorobenzene	13.262	180	12263	4.082	ug/L	97
70) 1,2,4-trichlorobenzene	13.262	180	12263	4.773	ug/L	96
71) Naphthalene	13.500	128	1703015	229.089	ug/L	99
72) 1,2,3-Trichlorobenzene	13.744	180	3249	1.223	ug/L #	92

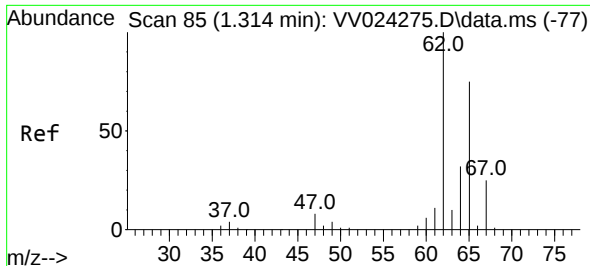
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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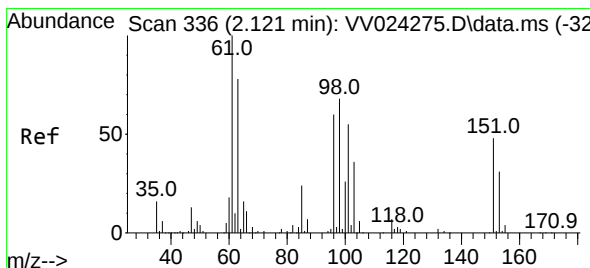
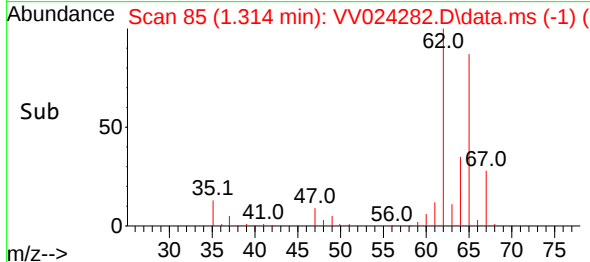
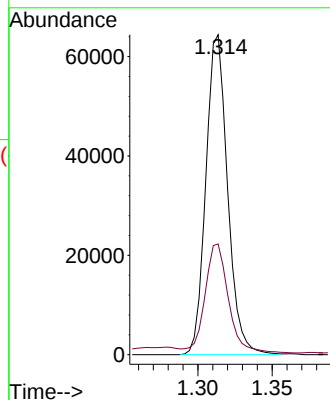
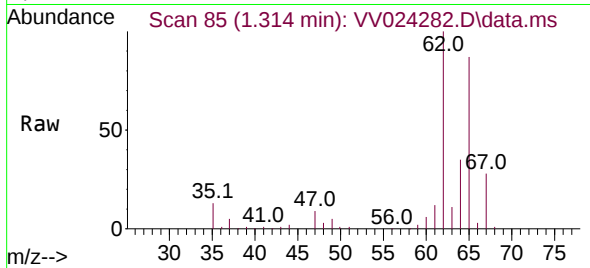




#5
 Vinyl chloride
 Concen: 35.220 ug/L
 RT: 1.314 min Scan# 85
 Delta R.T. -0.000 min
 Lab File: VV024282.D
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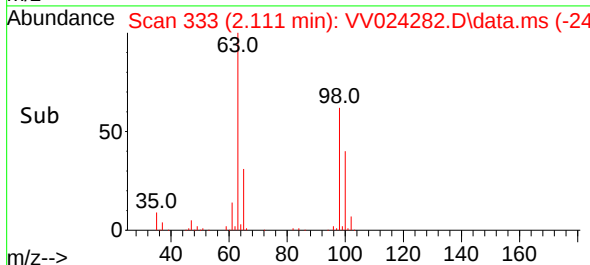
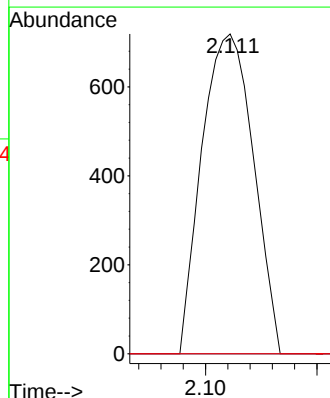
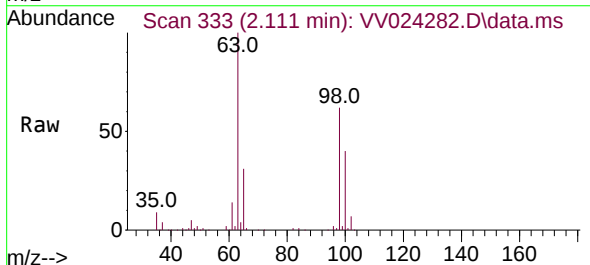
Instrument :
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 ClientSampleId :
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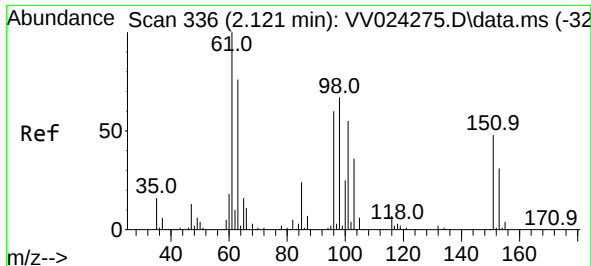
Tgt Ion: 62 Resp: 65461
 Ion Ratio Lower Upper
 62 100
 64 34.6 25.0 46.4



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.709 ug/L
 RT: 2.111 min Scan# 333
 Delta R.T. -0.010 min
 Lab File: VV024282.D
 Acq: 05 Jan 2022 16:56

Tgt Ion: 101 Resp: 1157
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.3 52.9#
 151 0.0 67.1 100.7#





#12

1,1-Dichloroethene

Concen: 1.419 ug/L

RT: 2.114 min Scan# 31

Delta R.T. -0.006 min

Lab File: VV024282.D

Acq: 05 Jan 2022 16:56

Instrument :

MSVOA_V

ClientSampleId :

BGLH4

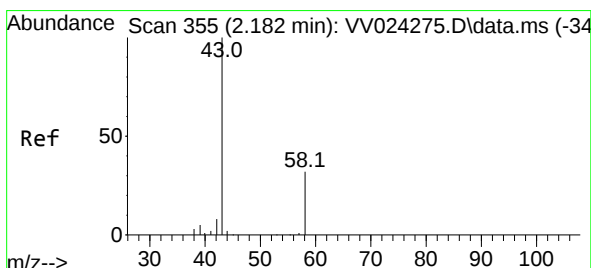
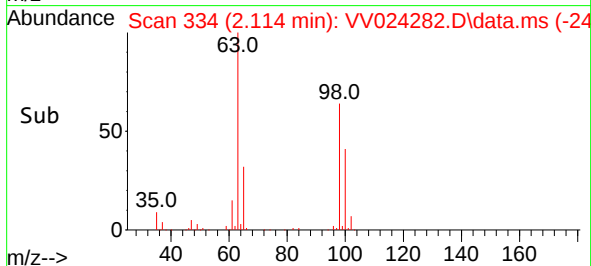
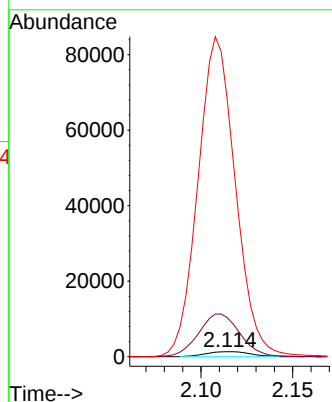
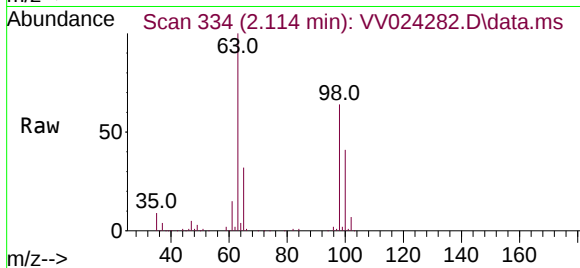
Tgt Ion: 96 Resp: 2240

Ion Ratio Lower Upper

96 100

61 790.7 111.9 207.9#

63 5218.3 82.7 153.5#



#13

Acetone

Concen: 148.817 ug/L

RT: 2.172 min Scan# 352

Delta R.T. -0.010 min

Lab File: VV024282.D

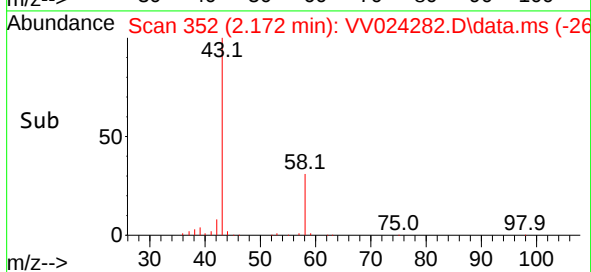
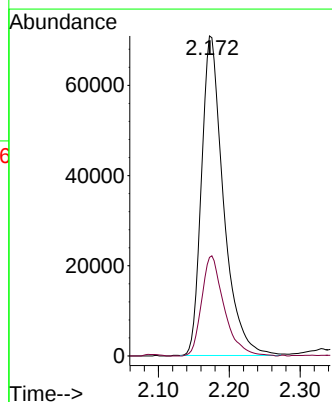
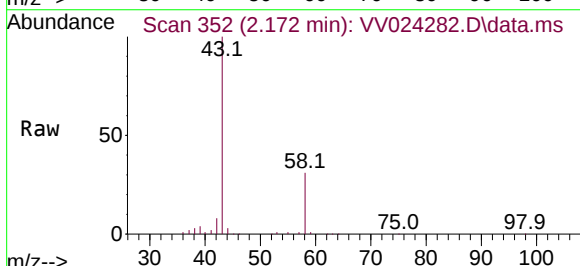
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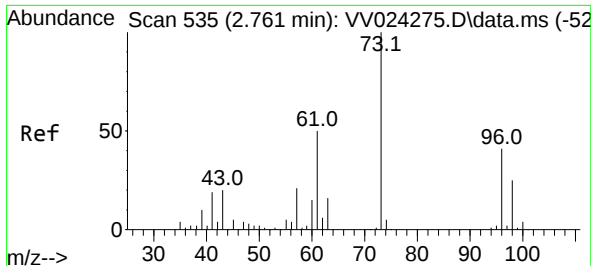
Tgt Ion: 43 Resp: 152683

Ion Ratio Lower Upper

43 100

58 32.1 0.0 63.0

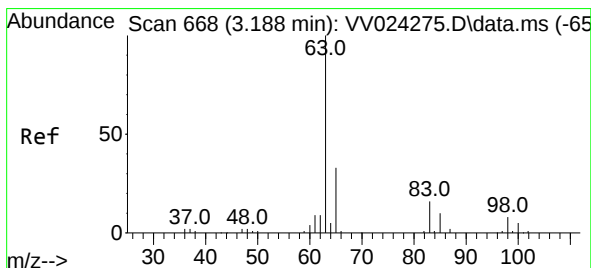
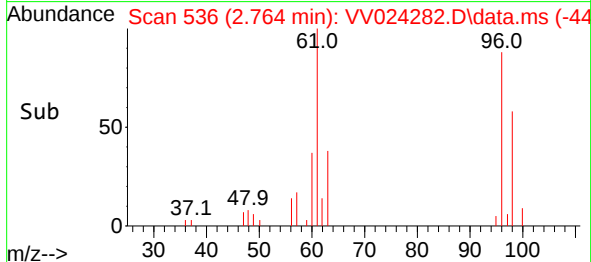
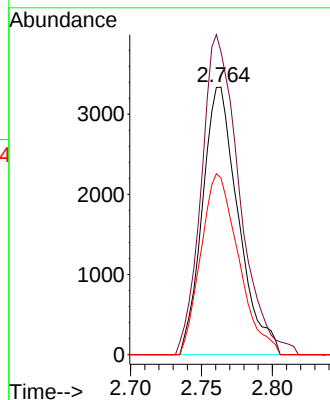
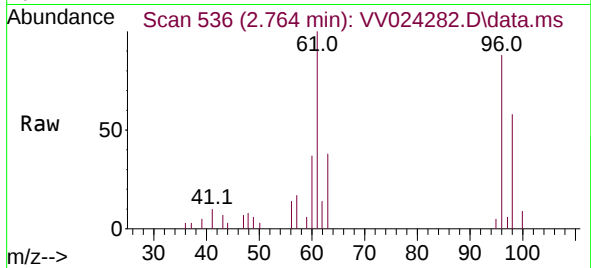




#17
trans-1,2-Dichloroethene
Concen: 3.612 ug/L
RT: 2.764 min Scan# 51
Delta R.T. 0.003 min
Lab File: VV024282.D
Acq: 05 Jan 2022 16:56

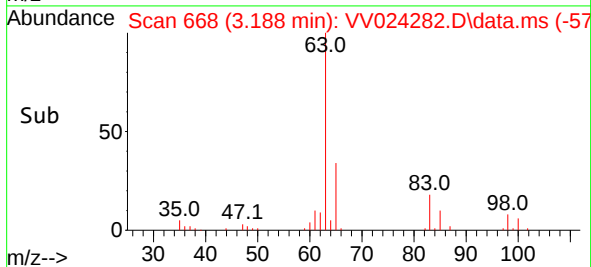
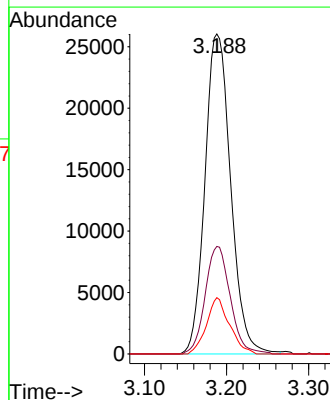
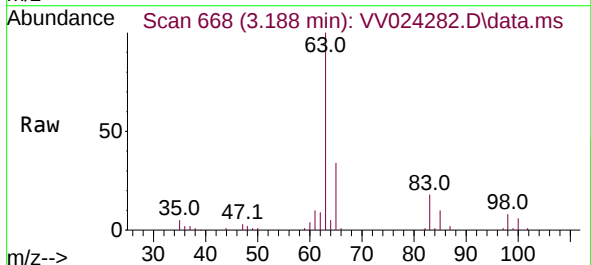
Instrument :
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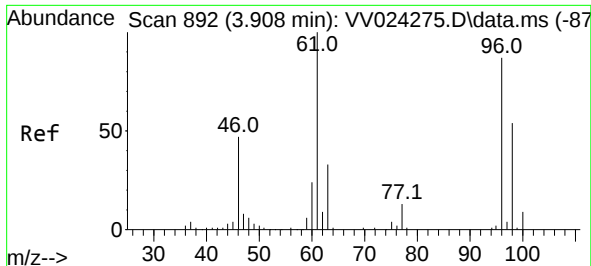
Tgt Ion: 96 Resp: 5875
Ion Ratio Lower Upper
96 100
61 113.2 88.1 163.7
98 66.1 45.0 83.6



#19
1,1-Dichloroethane
Concen: 21.088 ug/L
RT: 3.188 min Scan# 668
Delta R.T. -0.000 min
Lab File: VV024282.D
Acq: 05 Jan 2022 16:56

Tgt Ion: 63 Resp: 56897
Ion Ratio Lower Upper
63 100
65 33.6 22.4 41.6
83 17.6 10.6 19.6

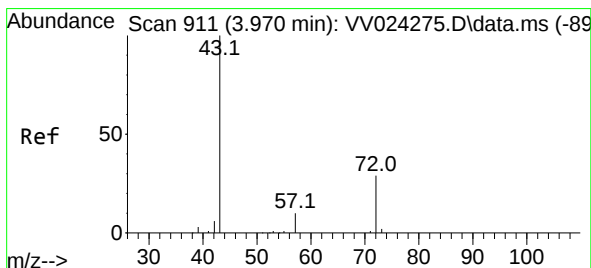
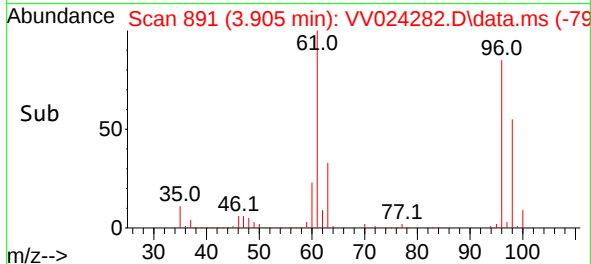
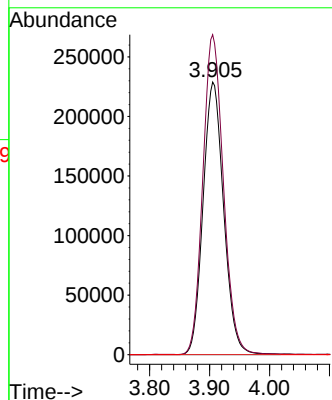
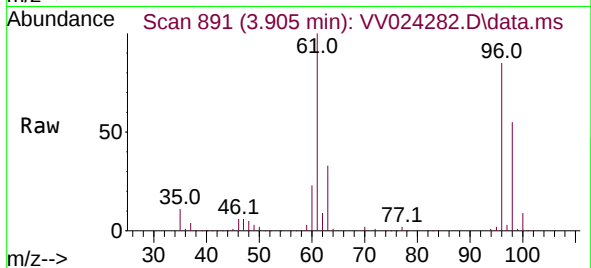




#20
cis-1,2-Dichloroethene
Concen: 315.280 ug/L
RT: 3.905 min Scan# 891
Delta R.T. -0.003 min
Lab File: VV024282.D
Acq: 05 Jan 2022 16:56

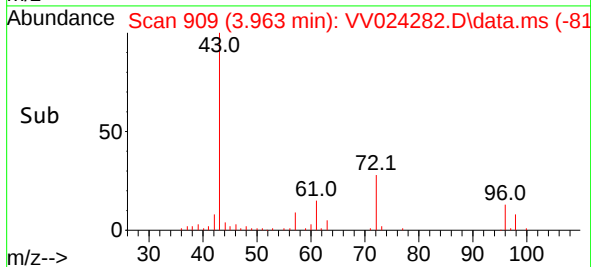
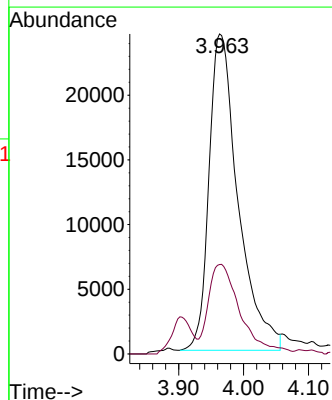
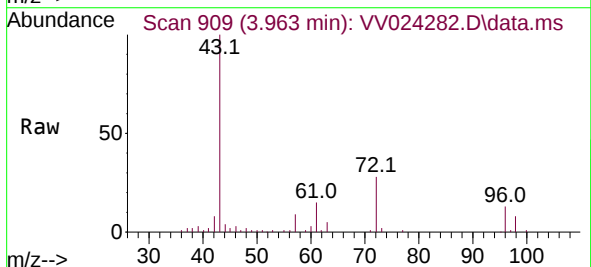
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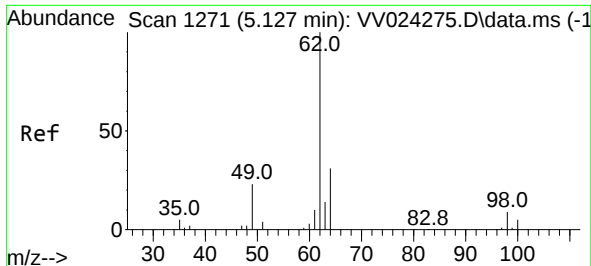
Tgt Ion: 96 Resp: 547727
Ion Ratio Lower Upper
96 100
61 117.4 82.9 153.9
68 0.0 0.0 0.0



#22
2-Butanone
Concen: 69.904 ug/L
RT: 3.963 min Scan# 909
Delta R.T. -0.006 min
Lab File: VV024282.D
Acq: 05 Jan 2022 16:56

Tgt Ion: 43 Resp: 76185
Ion Ratio Lower Upper
43 100
72 26.4 14.9 44.9

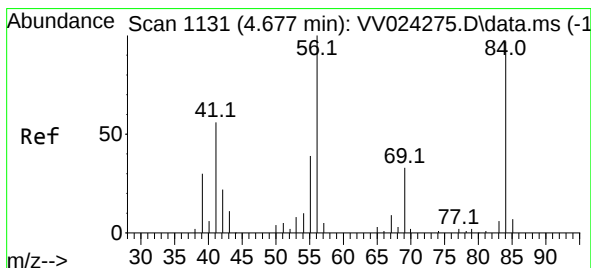
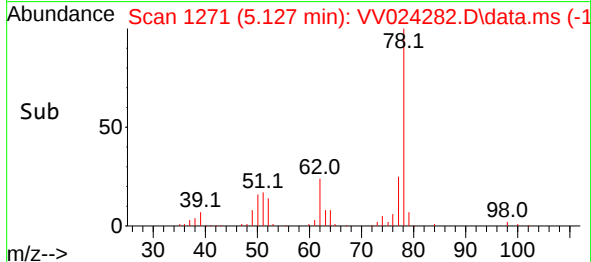
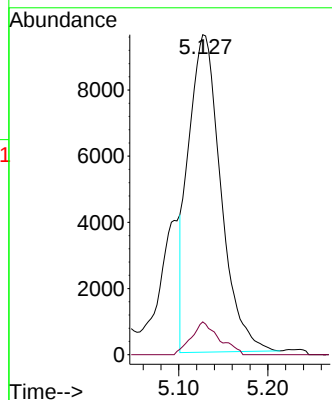
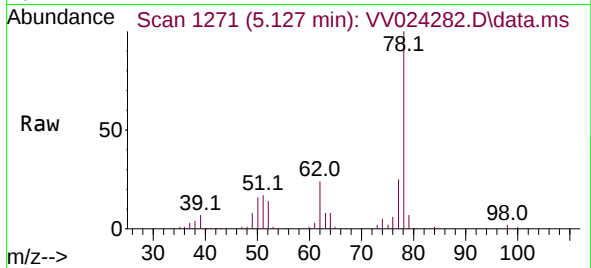




#27
1,2-Dichloroethane
Concen: 9.393 ug/L
RT: 5.127 min Scan# 1127
Delta R.T. -0.000 min
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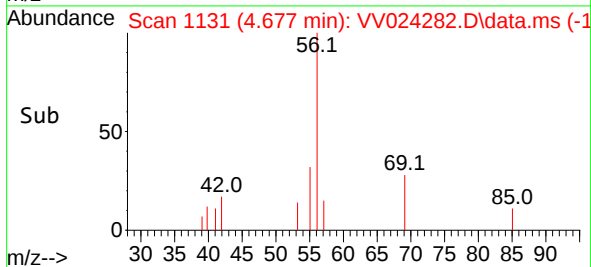
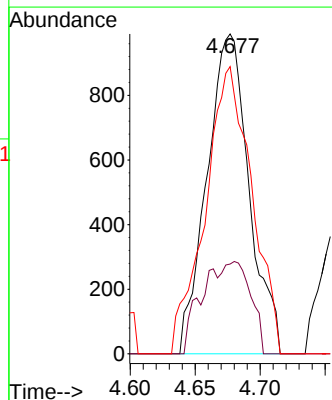
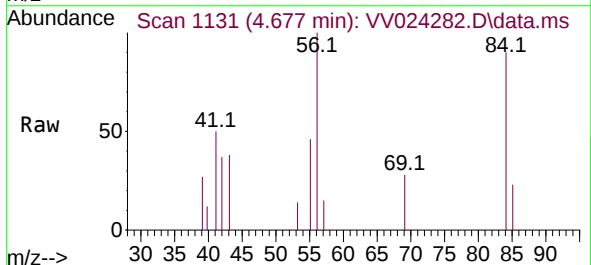
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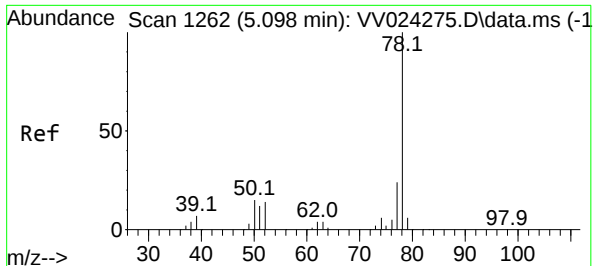
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Ion Ratio Lower Upper
62 100
98 10.3 7.1 10.7



#29
Cyclohexane
Concen: 1.053 ug/L
RT: 4.677 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VV024282.D
Acq: 05 Jan 2022 16:56

Tgt Ion: 56 Resp: 2235
Ion Ratio Lower Upper
56 100
69 19.8 25.8 38.6#
84 98.9 79.1 118.7

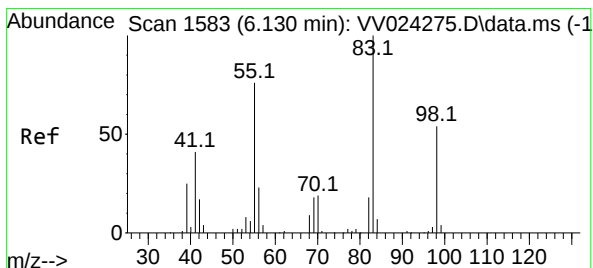
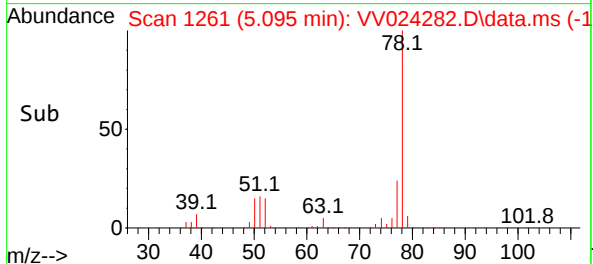
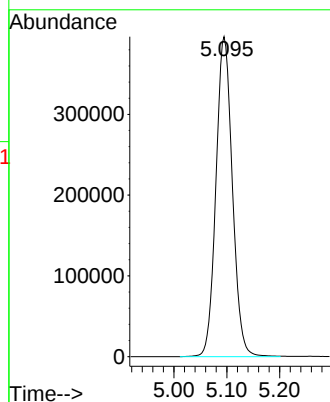
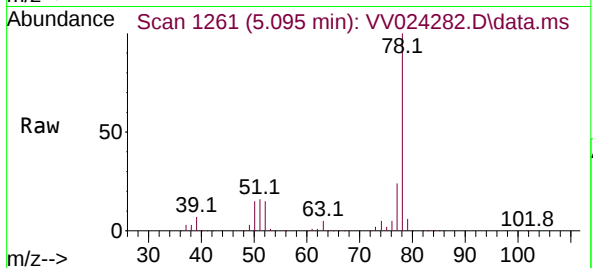




#33
Benzene
Concen: 141.850 ug/L
RT: 5.095 min Scan# 11
Delta R.T. -0.003 min
Lab File: VV024282.D
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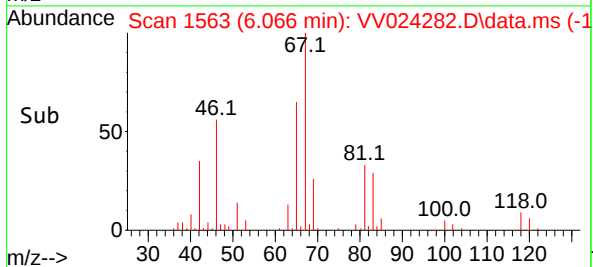
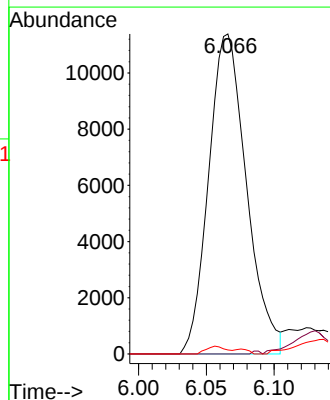
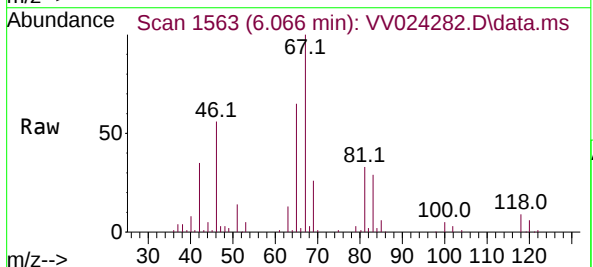
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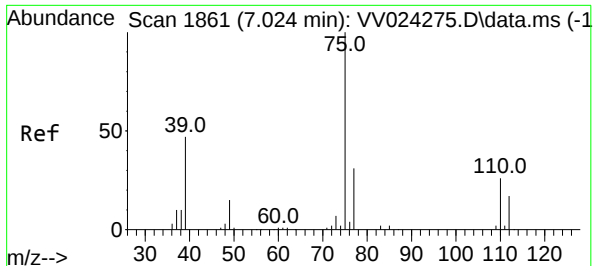
Tgt Ion: 78 Resp: 856521



#35
Methylcyclohexane
Concen: 8.954 ug/L
RT: 6.066 min Scan# 1563
Delta R.T. -0.064 min
Lab File: VV024282.D
Acq: 05 Jan 2022 16:56

Tgt Ion: 83 Resp: 22111
Ion Ratio Lower Upper
83 100
55 0.2 55.6 83.4#
98 0.5 41.3 61.9#





#39

cis-1,3-Dichloropropene

Concen: 1.351 ug/L

RT: 6.982 min Scan# 11

Delta R.T. -0.042 min

Lab File: VV024282.D

Acq: 05 Jan 2022 16:56

Instrument :

MSVOA_V

ClientSampleId :

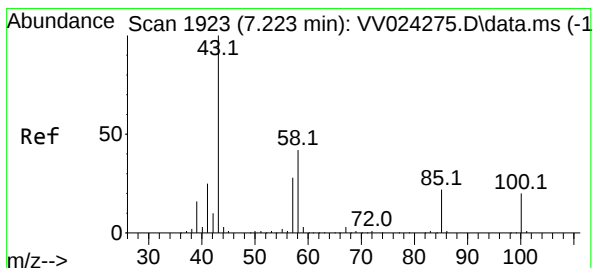
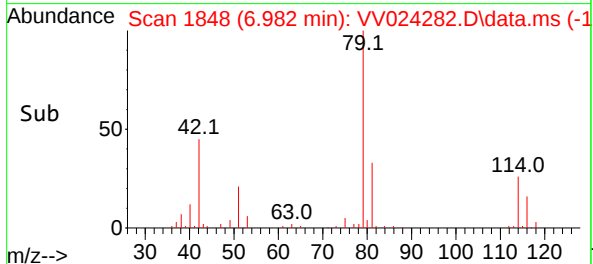
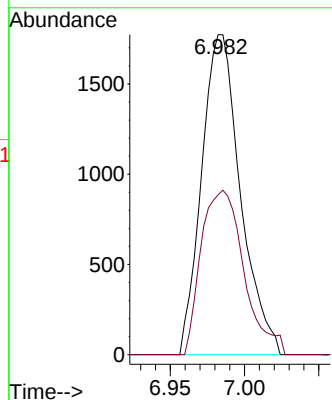
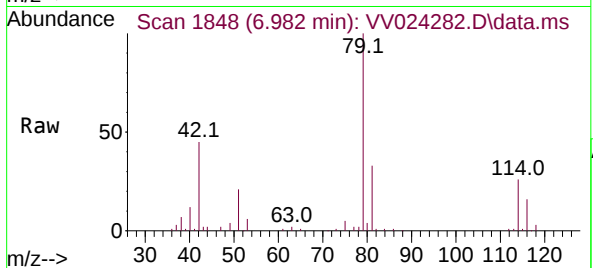
BGLH4

Tgt Ion: 75 Resp: 3225

Ion Ratio Lower Upper

75 100

77 50.0 23.0 42.8#



#40

4-Methyl-2-pentanone

Concen: 6.623 ug/L

RT: 7.230 min Scan# 1925

Delta R.T. 0.006 min

Lab File: VV024282.D

Acq: 05 Jan 2022 16:56

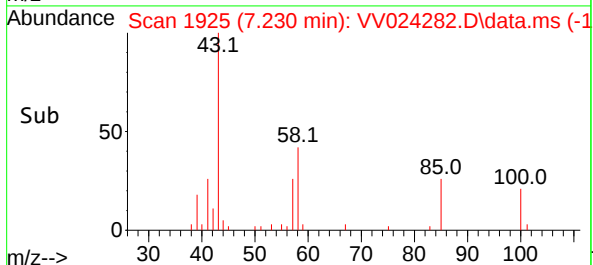
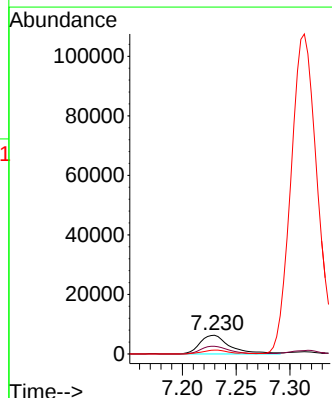
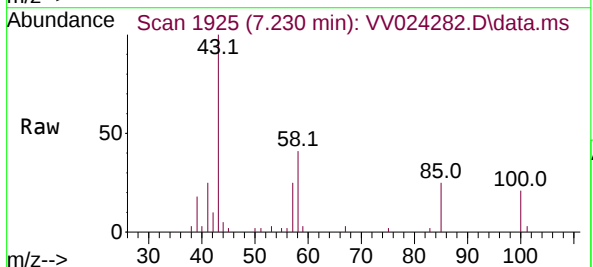
Tgt Ion: 43 Resp: 12266

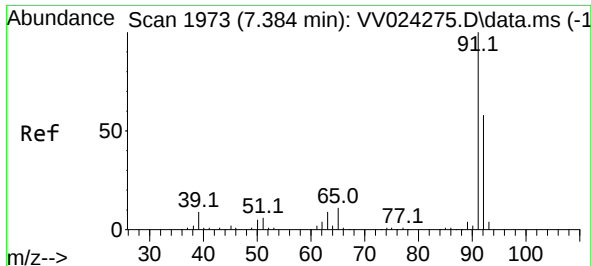
Ion Ratio Lower Upper

43 100

58 39.9 33.0 49.4

100 17.1 16.0 24.0





#42

Toluene

Concen: 395.409 ug/L

RT: 7.384 min Scan# 1973

Delta R.T. -0.000 min

Lab File: VV024282.D

Acq: 05 Jan 2022 16:56

Instrument :

MSVOA_V

ClientSampleId :

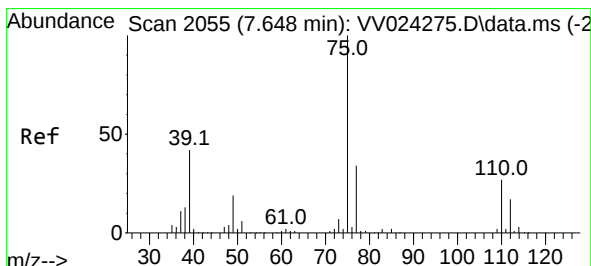
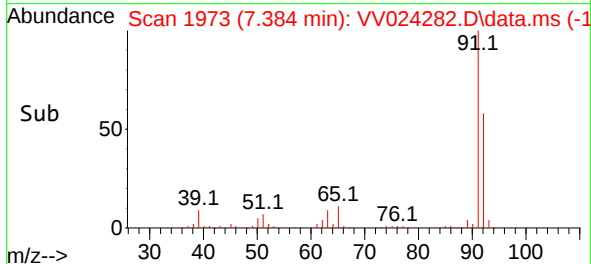
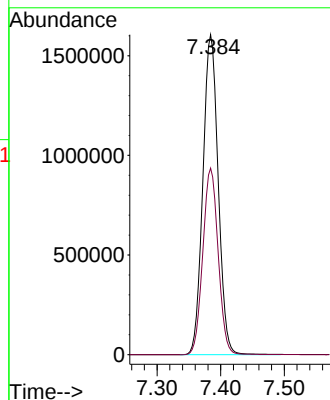
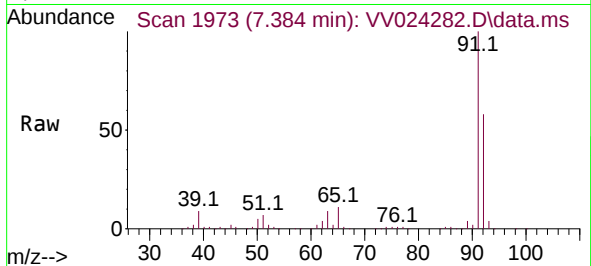
BGLH4

Tgt Ion: 91 Resp: 2680104

Ion Ratio Lower Upper

91 100

92 58.3 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 0.981 ug/L

RT: 7.616 min Scan# 2045

Delta R.T. -0.032 min

Lab File: VV024282.D

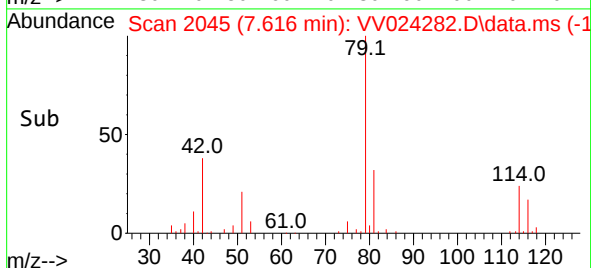
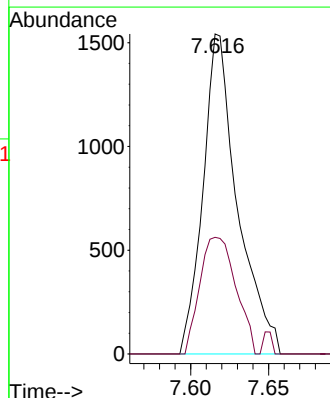
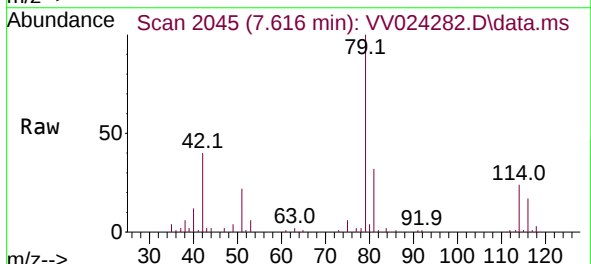
Acq: 05 Jan 2022 16:56

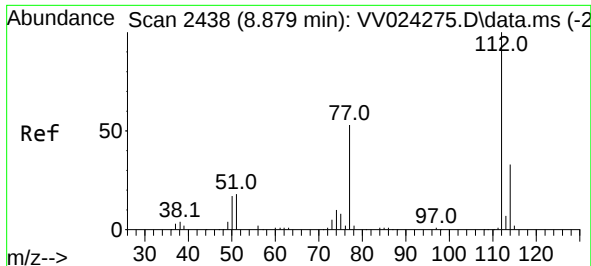
Tgt Ion: 75 Resp: 2375

Ion Ratio Lower Upper

75 100

77 36.4 22.7 42.1

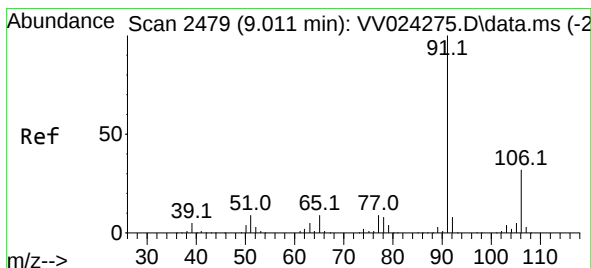
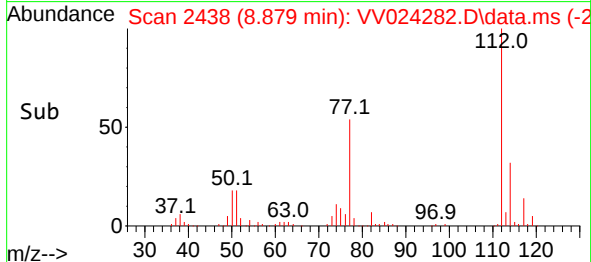
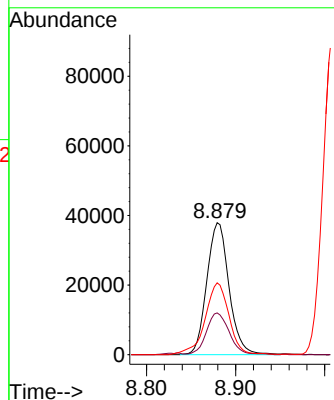
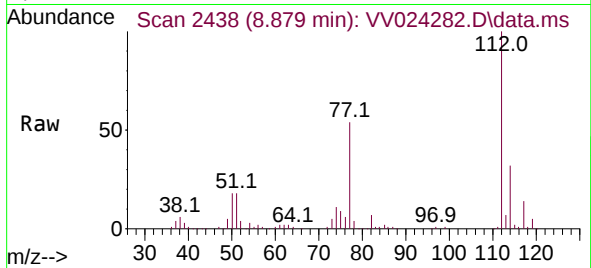




#51
Chlorobenzene
Concen: 14.395 ug/L
RT: 8.879 min Scan# 2438
Delta R.T. -0.000 min
Lab File: VV024282.D
Acq: 05 Jan 2022 16:56

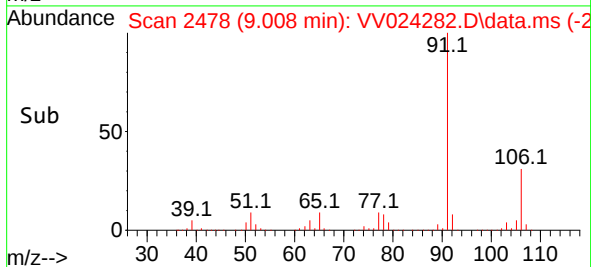
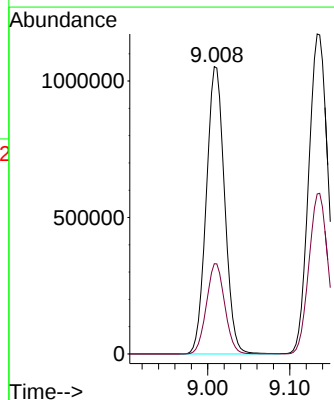
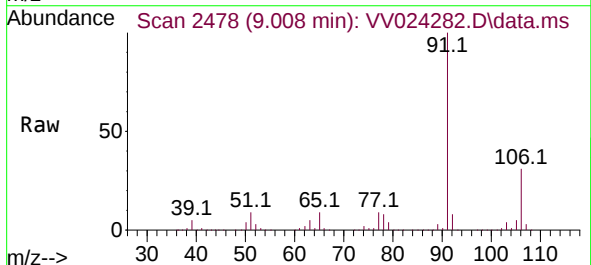
Instrument :
MSVOA_V
ClientSampleId :
BGLH4

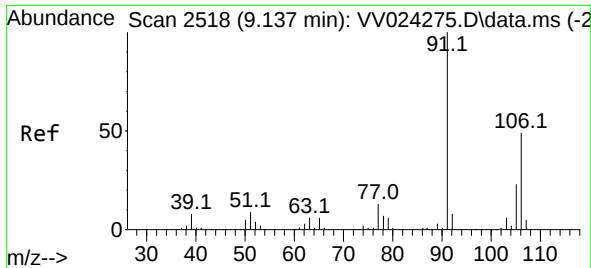
Tgt Ion:112 Resp: 65720
Ion Ratio Lower Upper
112 100
114 31.6 22.3 41.5
77 54.3 42.8 64.2



#52
Ethylbenzene
Concen: 225.231 ug/L
RT: 9.008 min Scan# 2478
Delta R.T. -0.003 min
Lab File: VV024282.D
Acq: 05 Jan 2022 16:56

Tgt Ion: 91 Resp: 1630923
Ion Ratio Lower Upper
91 100
106 31.4 22.0 41.0

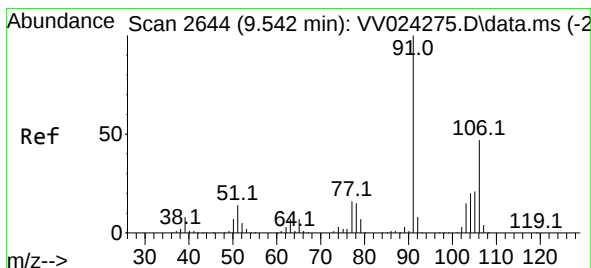
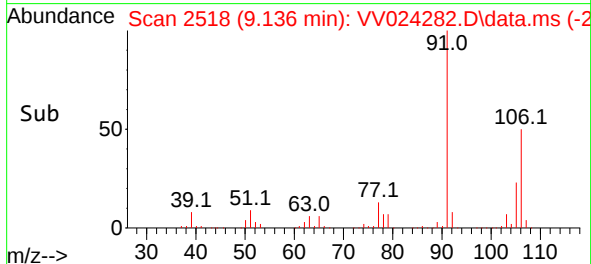
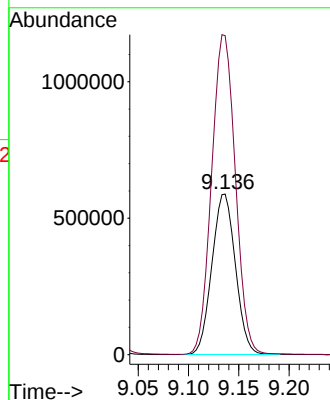
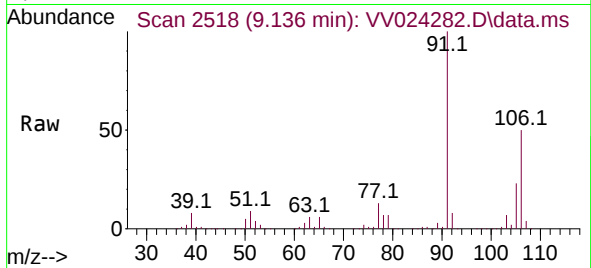




#53
m,p-Xylene
Concen: 329.818 ug/L
RT: 9.136 min Scan# 2518
Delta R.T. -0.000 min
Lab File: VV024282.D
Acq: 05 Jan 2022 16:56

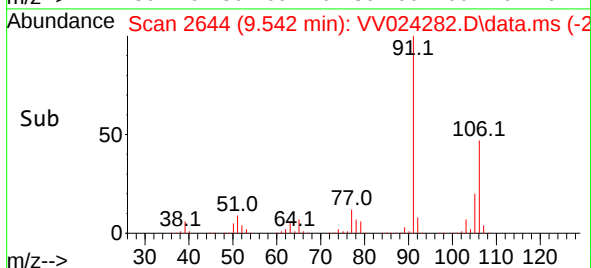
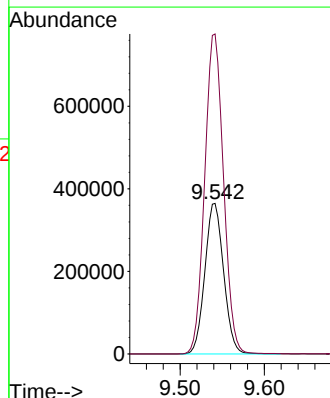
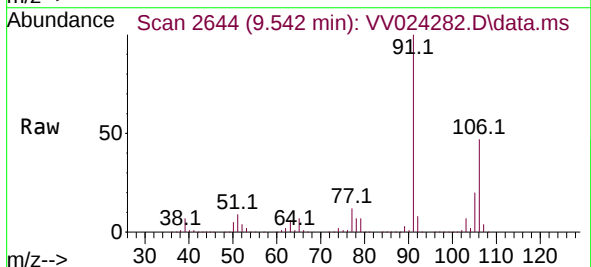
Instrument :
MSVOA_V
ClientSampleId :
BGLH4

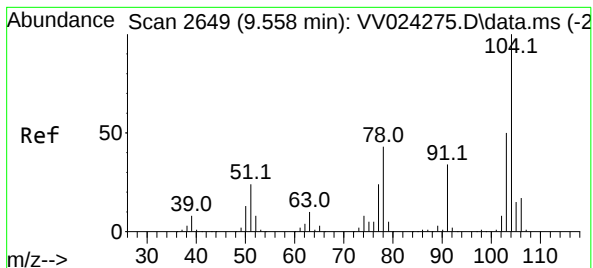
Tgt Ion:106 Resp: 957296
Ion Ratio Lower Upper
106 100
91 198.7 141.8 263.4



#54
o-Xylene
Concen: 204.301 ug/L
RT: 9.542 min Scan# 2644
Delta R.T. -0.000 min
Lab File: VV024282.D
Acq: 05 Jan 2022 16:56

Tgt Ion:106 Resp: 566054
Ion Ratio Lower Upper
106 100
91 212.5 150.9 280.3





#55

Styrene

Concen: 7.013 ug/L

RT: 9.542 min Scan# 2

Delta R.T. -0.016 min

Lab File: VV024282.D

Acq: 05 Jan 2022 16:56

Instrument :

MSVOA_V

ClientSampleId :

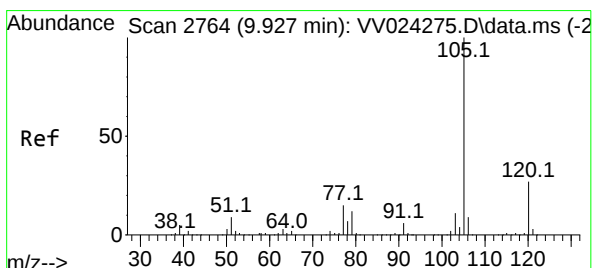
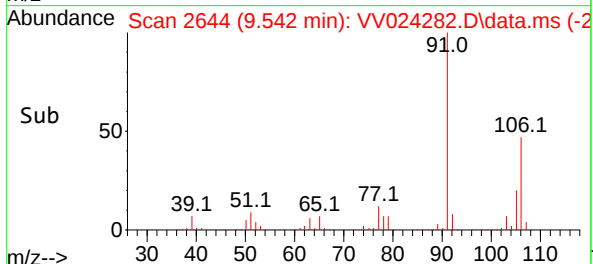
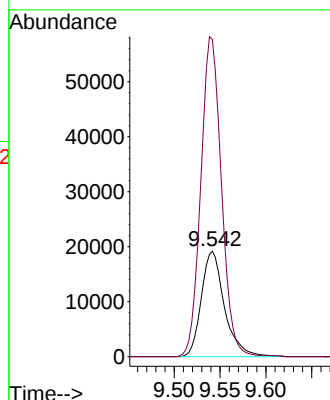
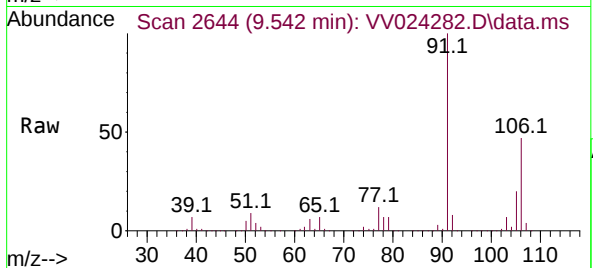
BGLH4

Tgt Ion:104 Resp: 33742

Ion Ratio Lower Upper

104 100

78 300.9 31.5 58.5#



#60

Isopropylbenzene

Concen: 28.600 ug/L

RT: 9.931 min Scan# 2765

Delta R.T. 0.003 min

Lab File: VV024282.D

Acq: 05 Jan 2022 16:56

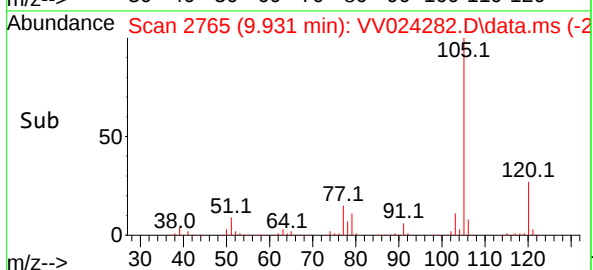
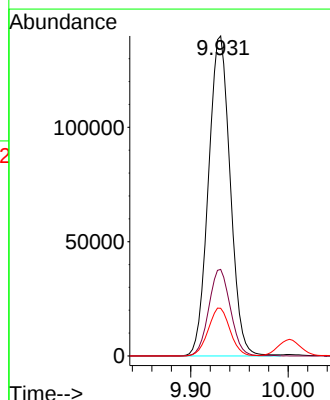
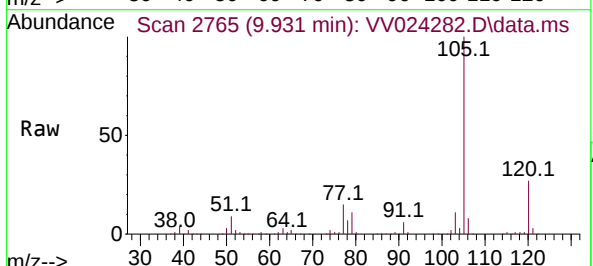
Tgt Ion:105 Resp: 216654

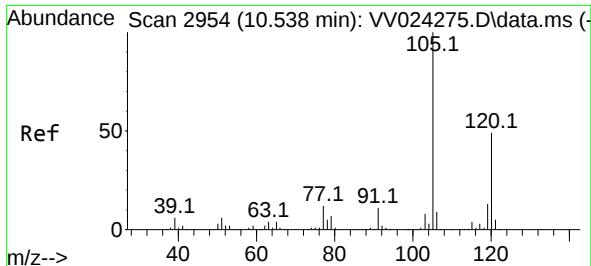
Ion Ratio Lower Upper

105 100

120 27.0 21.9 32.9

77 15.0 11.9 17.9

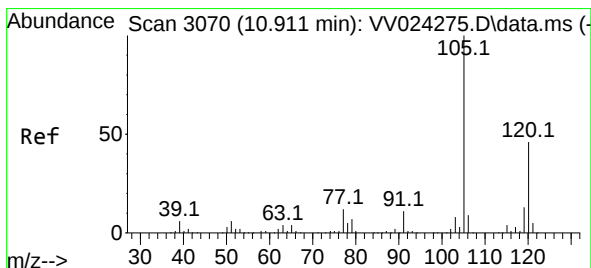
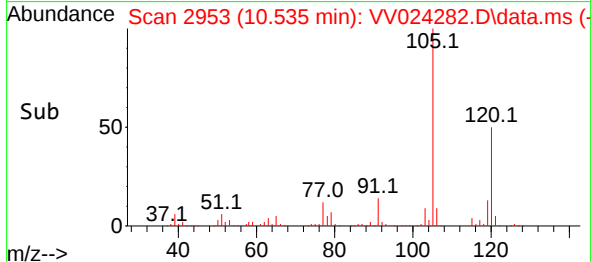
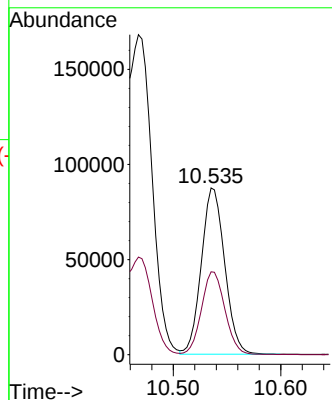
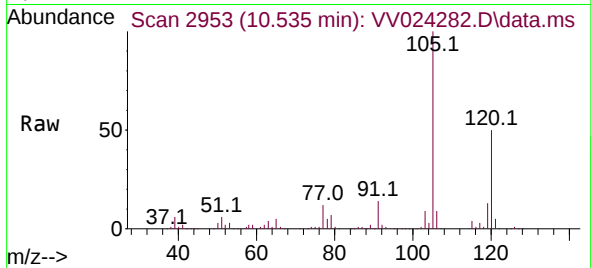




#62
1,3,5-Trimethylbenzene
Concen: 20.278 ug/L
RT: 10.535 min Scan# 2953
Delta R.T. -0.003 min
Lab File: VV024282.D
Acq: 05 Jan 2022 16:56

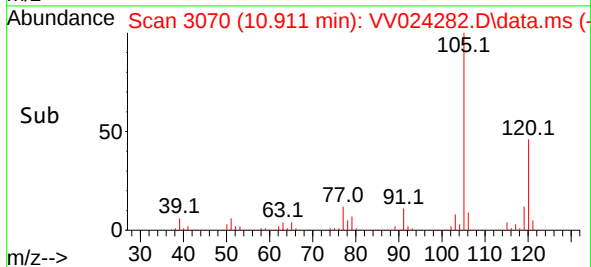
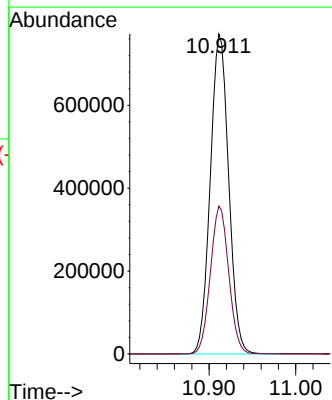
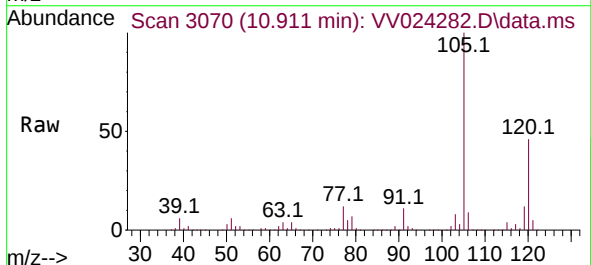
Instrument :
MSVOA_V
ClientSampleId :
BGLH4

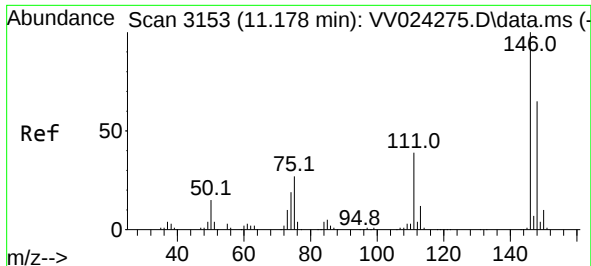
Tgt Ion:105 Resp: 132135
Ion Ratio Lower Upper
105 100
120 49.6 39.4 59.2



#63
1,2,4-Trimethylbenzene
Concen: 174.483 ug/L
RT: 10.911 min Scan# 3070
Delta R.T. -0.000 min
Lab File: VV024282.D
Acq: 05 Jan 2022 16:56

Tgt Ion:105 Resp: 1135087
Ion Ratio Lower Upper
105 100
120 46.1 36.6 55.0

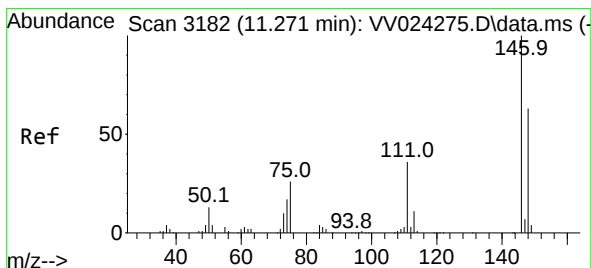
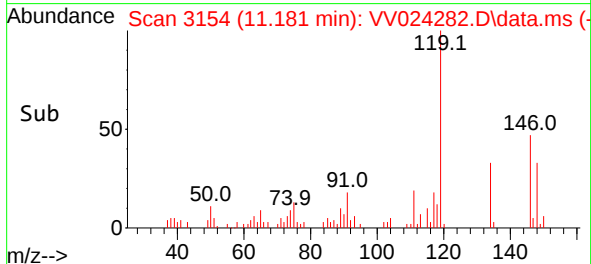
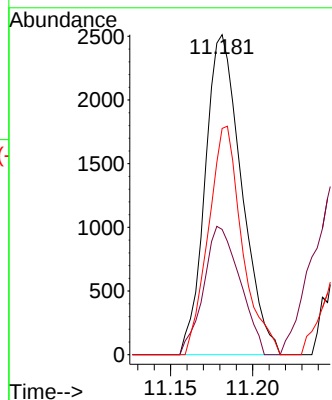
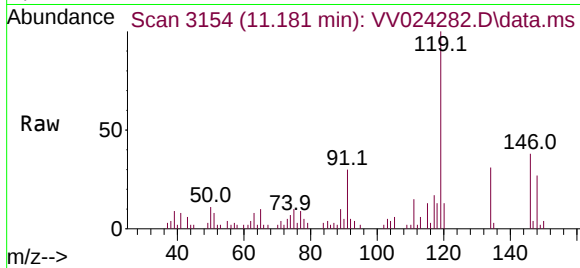




#64
1,3-Dichlorobenzene
Concen: 0.992 ug/L
RT: 11.181 min Scan# 3153
Delta R.T. 0.003 min
Lab File: VV024282.D
Acq: 05 Jan 2022 16:56

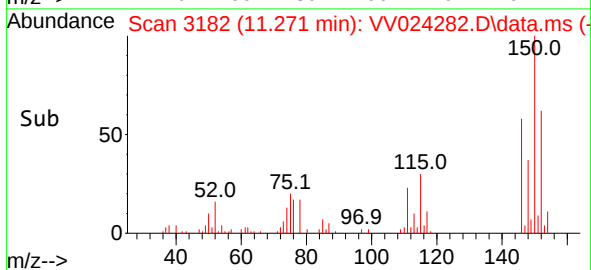
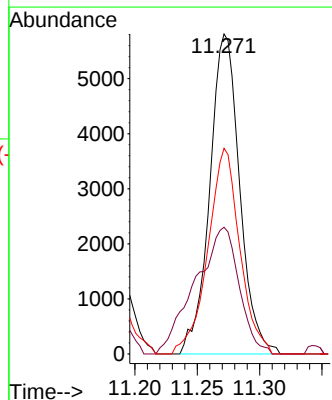
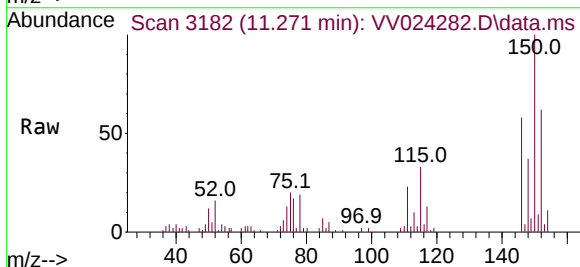
Instrument :
MSVOA_V
ClientSampleId :
BGLH4

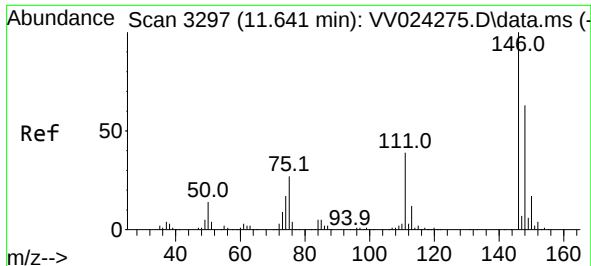
Tgt Ion:146 Resp: 3874
Ion Ratio Lower Upper
146 100
111 39.2 26.5 49.3
148 70.7 44.7 82.9



#65
1,4-Dichlorobenzene
Concen: 2.413 ug/L
RT: 11.271 min Scan# 3182
Delta R.T. -0.000 min
Lab File: VV024282.D
Acq: 05 Jan 2022 16:56

Tgt Ion:146 Resp: 9720
Ion Ratio Lower Upper
146 100
111 39.6 26.5 49.3
148 64.2 44.9 83.5





#67

1,2-Dichlorobenzene

Concen: 23.172 ug/L

RT: 11.641 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV024282.D

Acq: 05 Jan 2022 16:56

Instrument :

MSVOA_V

ClientSampleId :

BGLH4

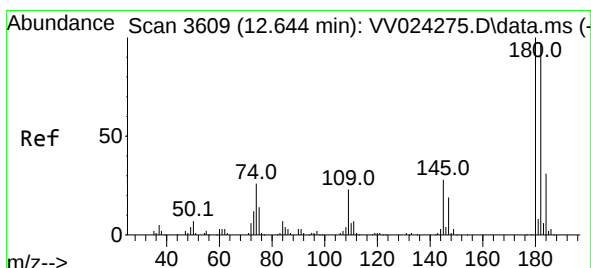
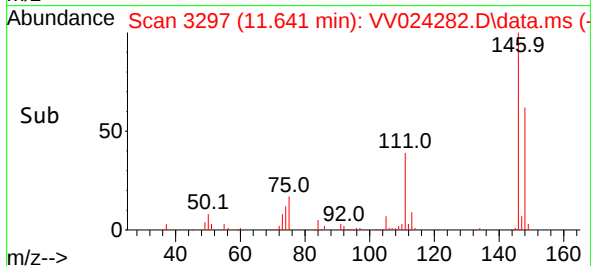
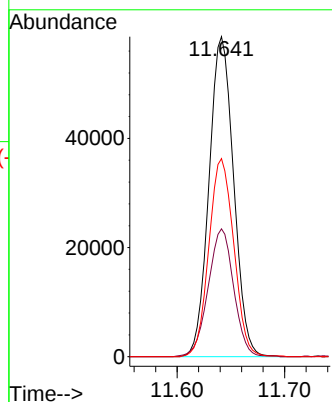
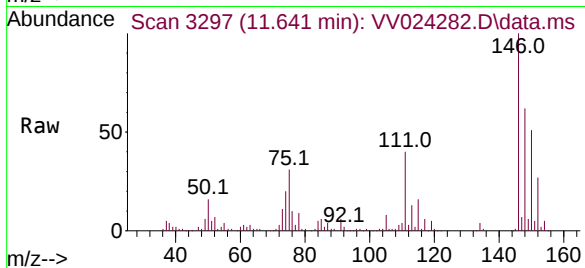
Tgt Ion:146 Resp: 93278

Ion Ratio Lower Upper

146 100

111 40.0 32.0 48.0

148 61.9 51.6 77.4



#69

1,3,5-Trichlorobenzene

Concen: 4.082 ug/L

RT: 13.262 min Scan# 3801

Delta R.T. 0.617 min

Lab File: VV024282.D

Acq: 05 Jan 2022 16:56

Tgt Ion:180 Resp: 12263

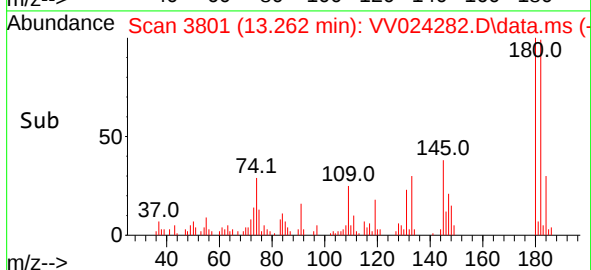
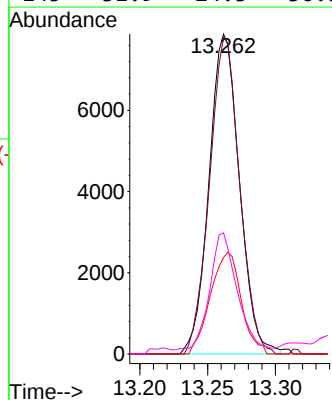
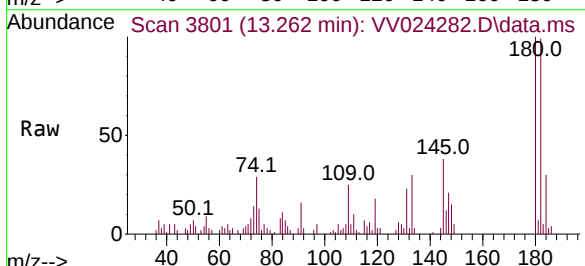
Ion Ratio Lower Upper

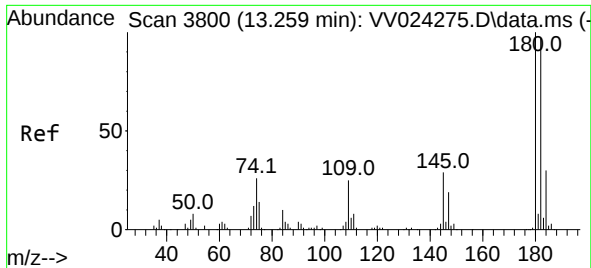
180 100

182 98.0 75.4 113.2

184 32.2 24.7 37.1

145 31.9 24.3 36.5

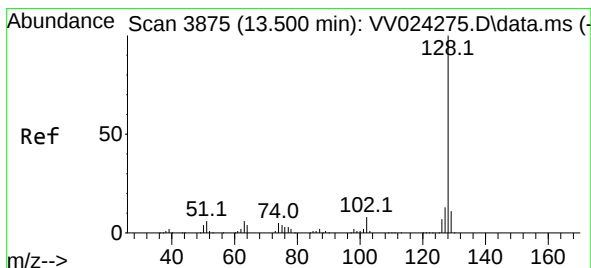
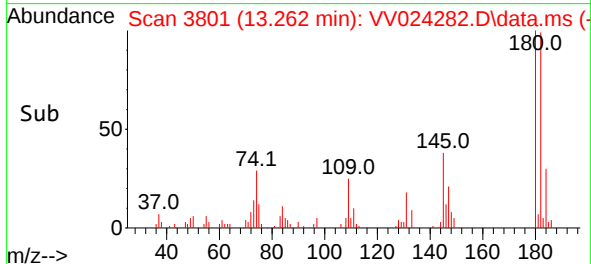
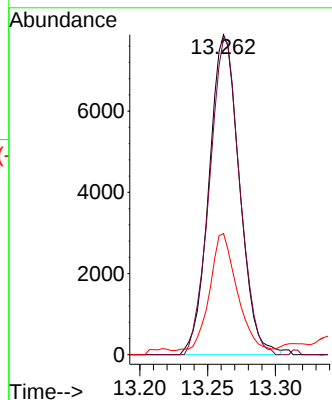
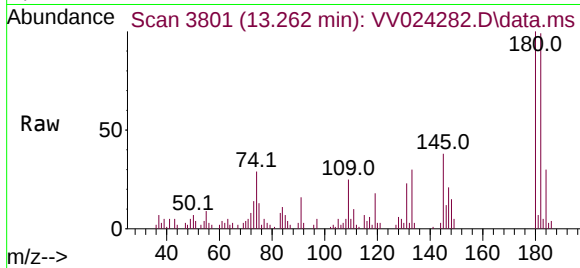




#70
1,2,4-trichlorobenzene
Concen: 4.773 ug/L
RT: 13.262 min Scan# 3801
Delta R.T. 0.003 min
Lab File: VV024282.D
Acq: 05 Jan 2022 16:56

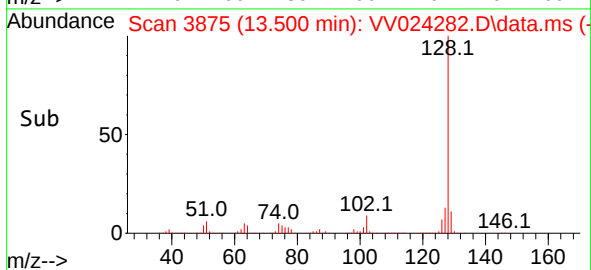
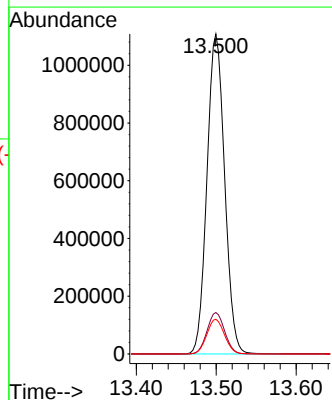
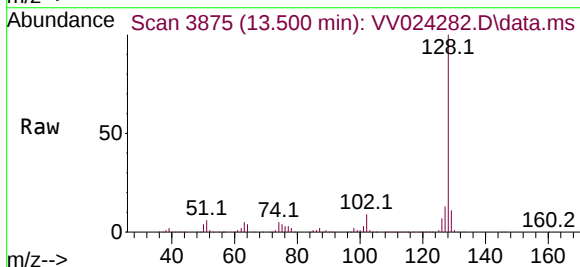
Instrument :
MSVOA_V
ClientSampleId :
BGLH4

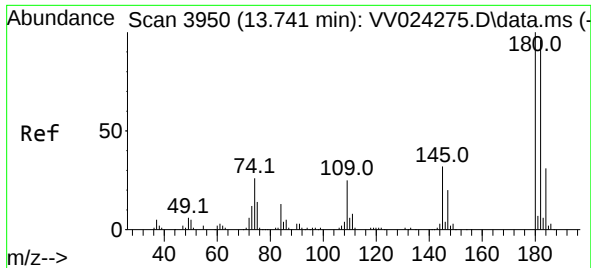
Tgt Ion:180 Resp: 12263
Ion Ratio Lower Upper
180 100
182 98.0 75.6 113.4
145 31.9 23.9 35.9



#71
Naphthalene
Concen: 229.089 ug/L
RT: 13.500 min Scan# 3875
Delta R.T. -0.000 min
Lab File: VV024282.D
Acq: 05 Jan 2022 16:56

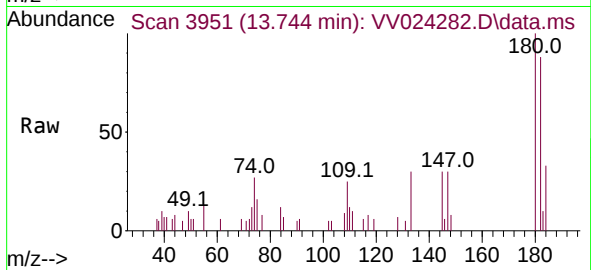
Tgt Ion:128 Resp: 1703015
Ion Ratio Lower Upper
128 100
127 12.9 10.6 16.0
129 10.9 8.7 13.1





#72
 1,2,3-Trichlorobenzene
 Concen: 1.223 ug/L
 RT: 13.744 min Scan# 3951
 Delta R.T. 0.003 min
 Lab File: VV024282.D
 Acq: 05 Jan 2022 16:56

Instrument :
 MSVOA_V
 ClientSampleId :
 BGLH4



Tgt Ion:180 Resp: 3249
 Ion Ratio Lower Upper
 180 100
 182 89.8 76.1 114.1
 145 40.8 25.0 37.4#

