

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072622\
 Data File : VU049911.D
 Acq On : 26 Jul 2022 14:42
 Operator : SY/MD
 Sample : N3873-09
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GBJ33

Quant Time: Jul 27 03:56:57 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR072222WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Jul 27 03:55:15 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	93893	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	90909	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	44743	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	29779	3.918	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.400%
7) Chloroethane-d5	1.912	69	28226	4.437	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.800%
11) 1,1-Dichloroethene-d2	2.562	65	13772	4.059	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.200%
20) 2-Butanone-d5	4.639	46	140881	51.509	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.020%
24) Chloroform-d	5.063	84	72797	4.300	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.000%
26) 1,2-Dichloroethane-d4	5.703	65	43156	4.347	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.000%
32) Benzene-d6	5.726	84	131586	4.248	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.000%
36) 1,2-Dichloropropane-d6	6.690	67	48352	4.518	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.400%
41) Toluene-d8	7.899	98	103333	3.816	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.400%
43) trans-1,3-Dichloroprop...	8.179	79	15592	4.013	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.200%
46) 2-Hexanone-d5	8.636	63	75311	48.914	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.820%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	42554	4.735	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.600%
66) 1,2-Dichlorobenzene-d4	12.192	152	41794	4.525	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.520	50	45931	3.766	ug/L	97
6) Bromomethane	1.858	94	18589	3.371	ug/L	97
9) Trichlorofluoromethane	2.134	101	111785	8.917	ug/L	100
12) 1,1-Dichloroethene	2.575	96	25782	4.156	ug/L	97
13) Acetone	2.652	43	108620	66.027	ug/L	97
14) Carbon disulfide	2.787	76	120911	6.299	ug/L	99
16) Methylene chloride	3.044	84	31330	2.239	ug/L	96
17) Methyl tert-butyl Ether	3.369	73	167299	8.324	ug/L	99
19) 1,1-Dichloroethane	3.867	63	140823	9.086	ug/L	99
21) 2-Butanone	4.716	43	291208	104.373	ug/L	97
27) 1,2-Dichloroethane	5.796	62	78259	6.929	ug/L	99
29) 1,1,1-Trichloroethane	5.314	97	118266	9.267	ug/L	98
30) Cyclohexane	5.388	56	154271	14.929	ug/L	99
34) Trichloroethene	6.539	95	45547	5.695	ug/L	97
35) Methylcyclohexane	6.764	83	83287	8.442	ug/L	99
37) 1,2-Dichloropropane	6.790	63	21202	2.255	ug/L	98
42) Toluene	7.967	91	293158	8.885	ug/L	98
47) Tetrachloroethene	8.552	164	52926	9.613	ug/L	99
48) 2-Hexanone	8.687	43	251397	51.363	ug/L	97

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

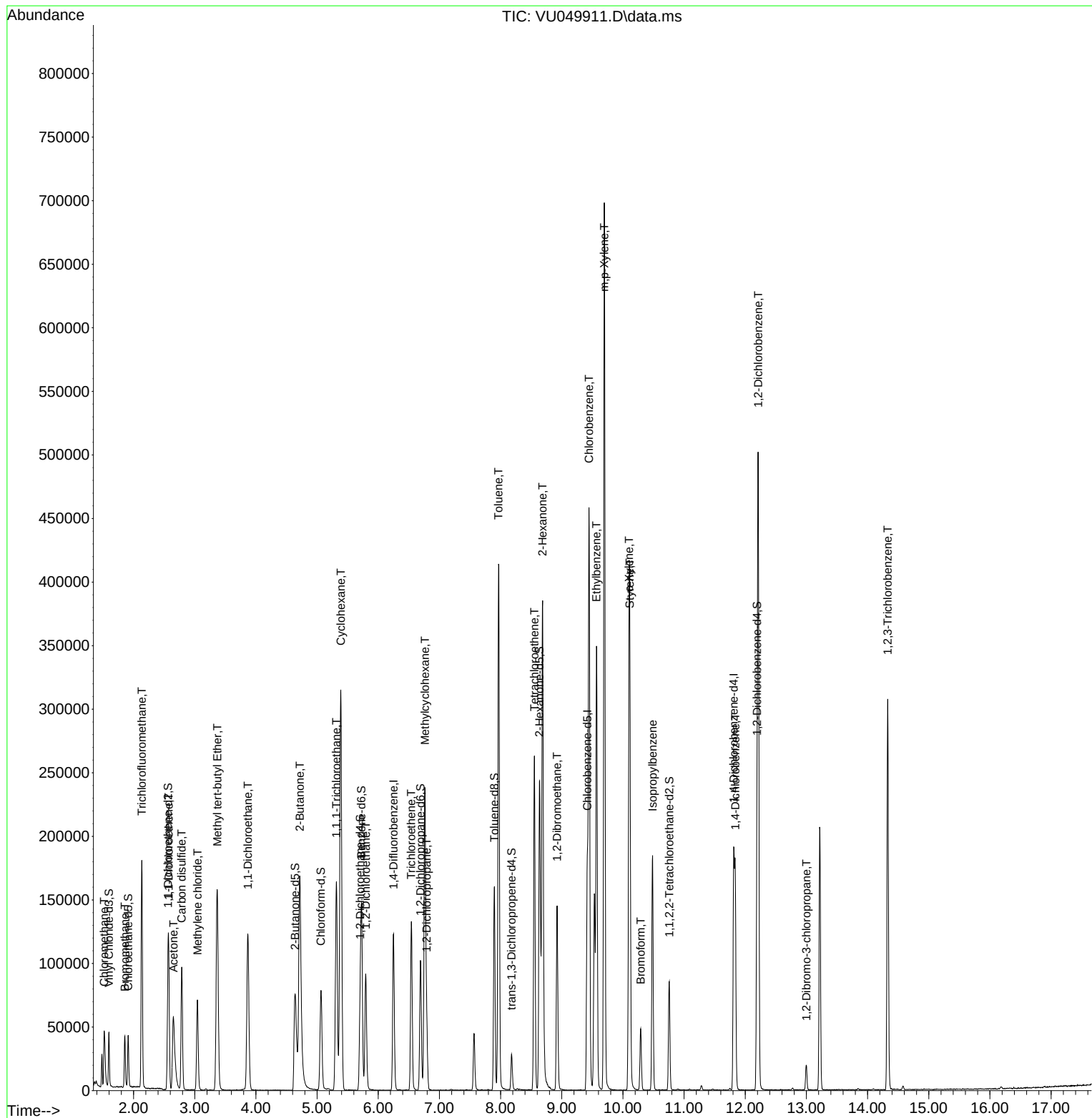
50) 1,2-Dibromoethane	8.925	107	94815	15.912	ug/L	97
51) Chlorobenzene	9.446	112	228288	10.899	ug/L	100
52) Ethylbenzene	9.568	91	237746	7.008	ug/L	99
53) m,p-Xylene	9.697	106	173495	13.902	ug/L	97
54) o-Xylene	10.098	106	69482	5.634	ug/L	96
55) Styrene	10.115	104	117483	5.624	ug/L	100
59) Bromoform	10.291	173	20896	5.366	ug/L	97
60) Isopropylbenzene	10.484	105	110110	3.720	ug/L	99
65) 1,4-Dichlorobenzene	11.838	146	62988	4.350	ug/L	98
67) 1,2-Dichlorobenzene	12.211	146	175647	12.149	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.999	75	5311	3.983	ug/L	96
72) 1,2,3-Trichlorobenzene	14.330	180	87740	10.063	ug/L	97

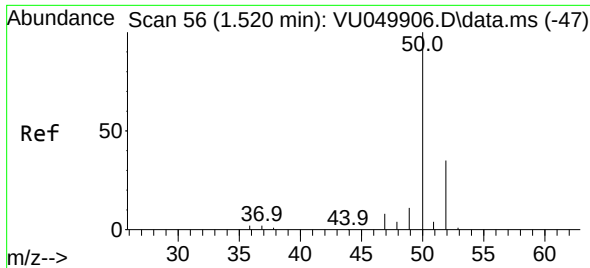
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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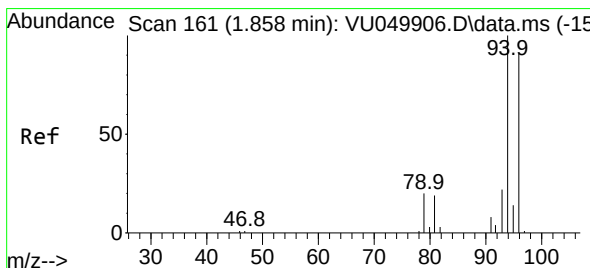
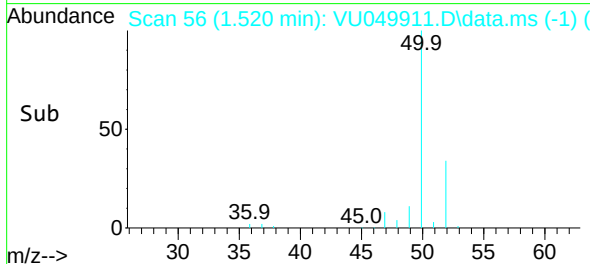
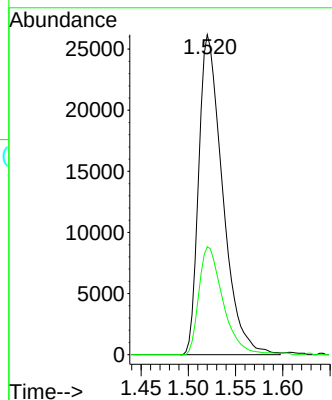
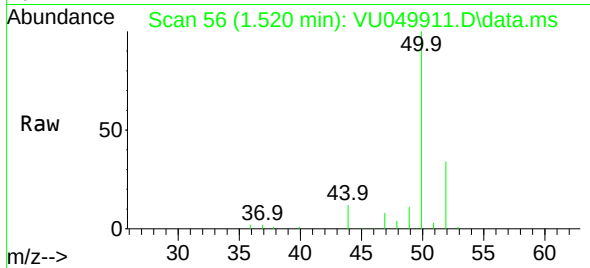




#3
Chloromethane
Concen: 3.766 ug/L
RT: 1.520 min Scan# 50
Delta R.T. -0.000 min
Lab File: VU049911.D
Acq: 26 Jul 2022 14:42

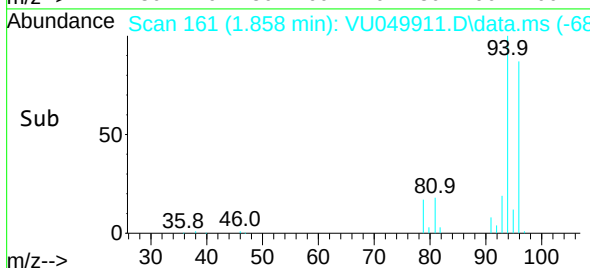
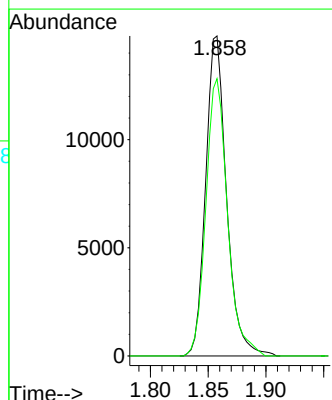
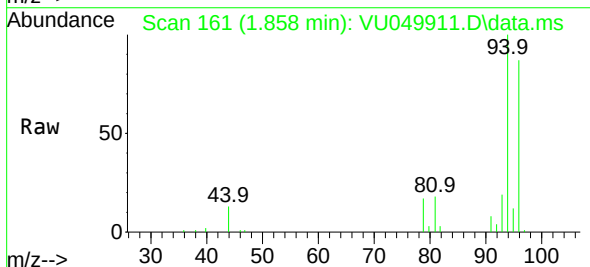
Instrument :
MSVOA_U
ClientSampleId :
GBJ33

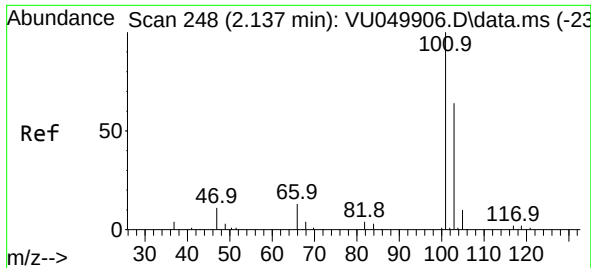
Tgt Ion: 50 Resp: 45931
Ion Ratio Lower Upper
50 100
52 33.7 22.5 41.7



#6
Bromomethane
Concen: 3.371 ug/L
RT: 1.858 min Scan# 161
Delta R.T. -0.000 min
Lab File: VU049911.D
Acq: 26 Jul 2022 14:42

Tgt Ion: 94 Resp: 18589
Ion Ratio Lower Upper
94 100
96 86.7 62.6 116.3

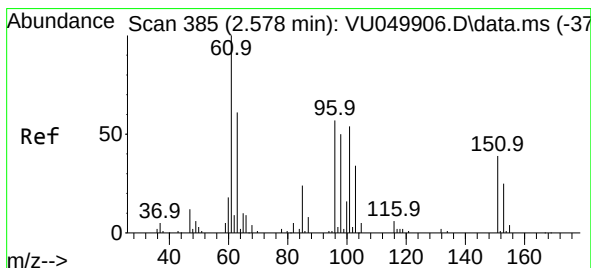
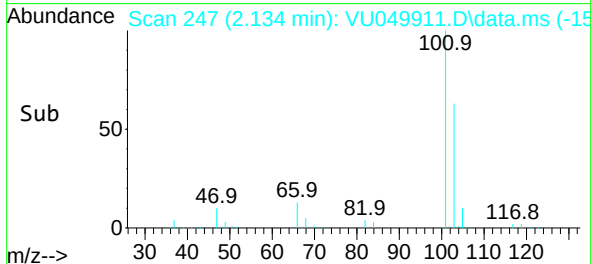
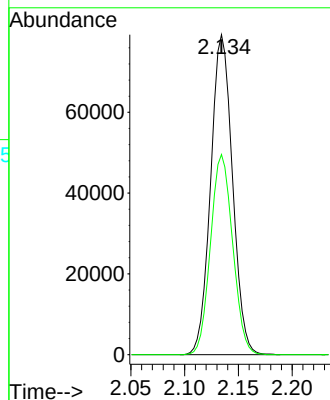
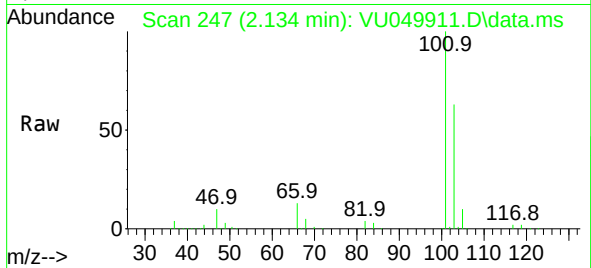




#9
 Trichlorofluoromethane
 Concen: 8.917 ug/L
 RT: 2.134 min Scan# 24
 Delta R.T. -0.003 min
 Lab File: VU049911.D
 Acq: 26 Jul 2022 14:42

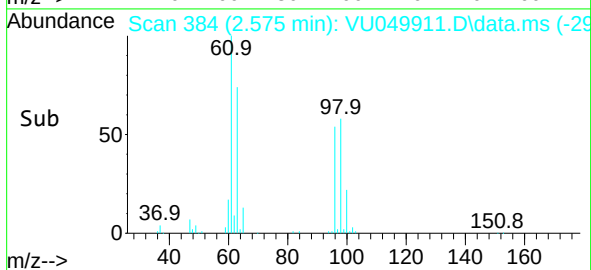
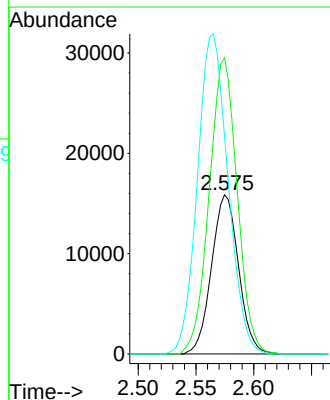
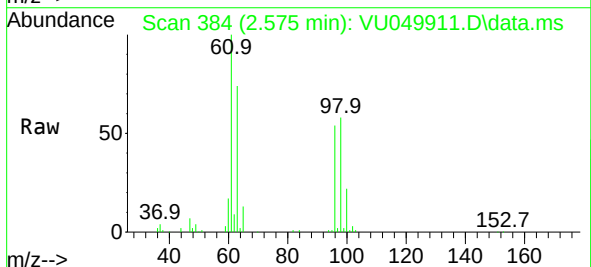
Instrument :
 MSVOA_U
 ClientSampleId :
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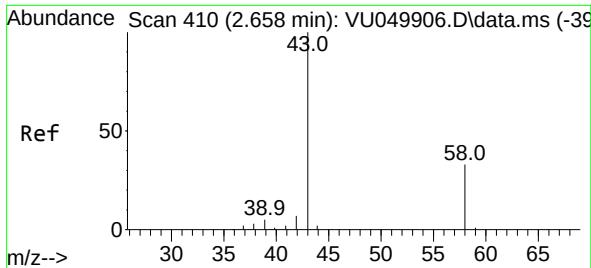
Tgt Ion:101 Resp: 111785
 Ion Ratio Lower Upper
 101 100
 103 63.4 50.8 76.2



#12
 1,1-Dichloroethene
 Concen: 4.156 ug/L
 RT: 2.575 min Scan# 384
 Delta R.T. -0.003 min
 Lab File: VU049911.D
 Acq: 26 Jul 2022 14:42

Tgt Ion: 96 Resp: 25782
 Ion Ratio Lower Upper
 96 100
 61 186.0 131.6 244.4
 63 136.8 100.0 185.6





#13

Acetone

Concen: 66.027 ug/L

RT: 2.652 min Scan# 40

Delta R.T. -0.007 min

Lab File: VU049911.D

Acq: 26 Jul 2022 14:42

Instrument :

MSVOA_U

ClientSampleId :

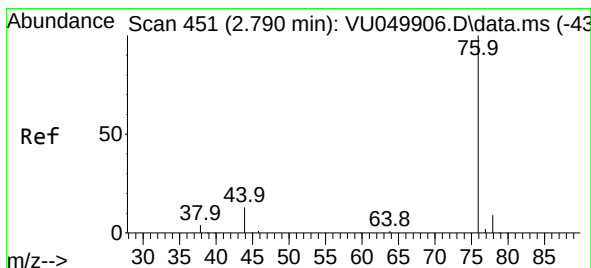
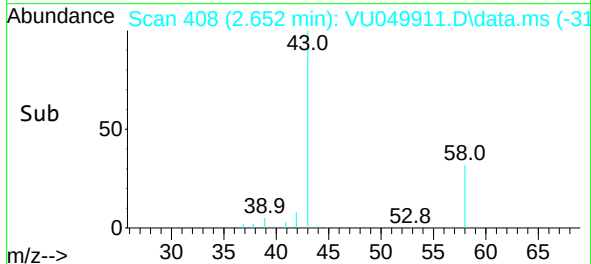
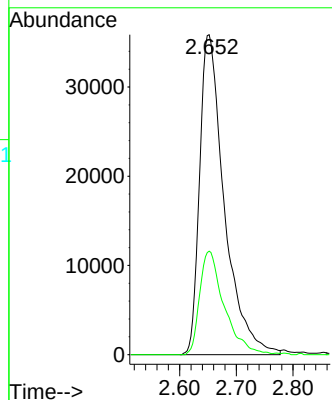
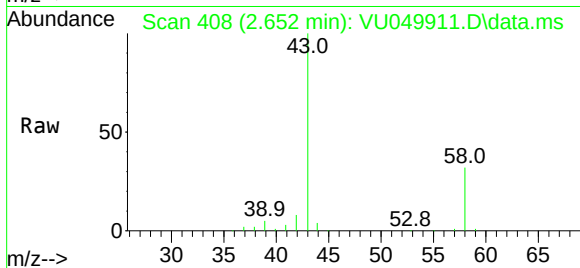
GBJ33

Tgt Ion: 43 Resp: 108620

Ion Ratio Lower Upper

43 100

58 32.1 0.0 61.0



#14

Carbon disulfide

Concen: 6.299 ug/L

RT: 2.787 min Scan# 450

Delta R.T. -0.003 min

Lab File: VU049911.D

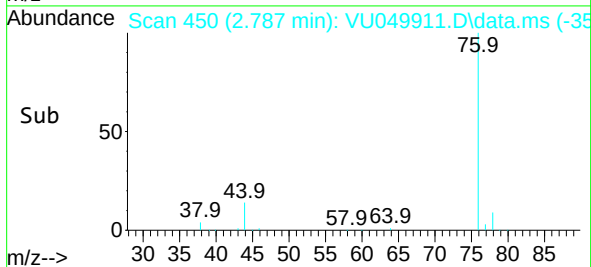
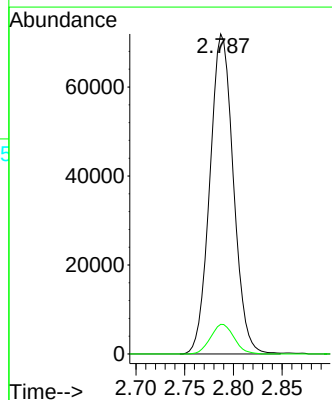
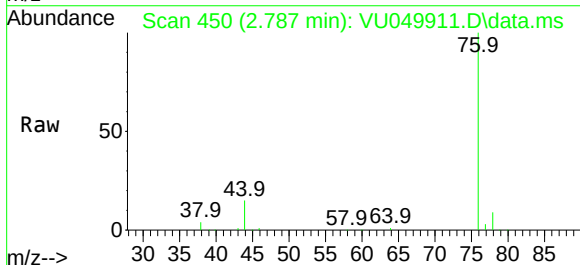
Acq: 26 Jul 2022 14:42

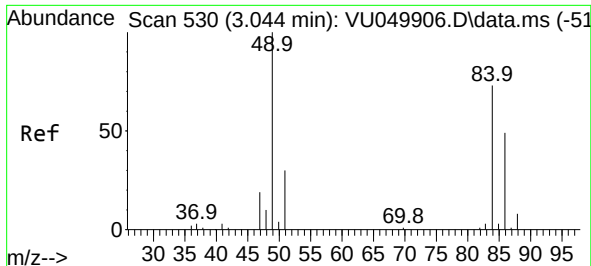
Tgt Ion: 76 Resp: 120911

Ion Ratio Lower Upper

76 100

78 9.3 7.8 11.6

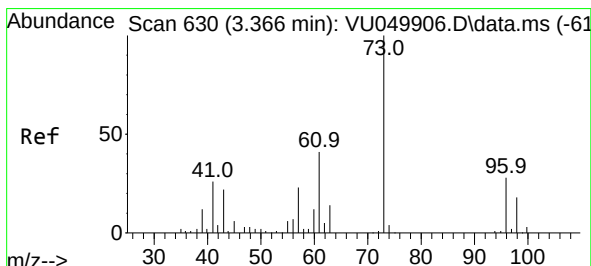
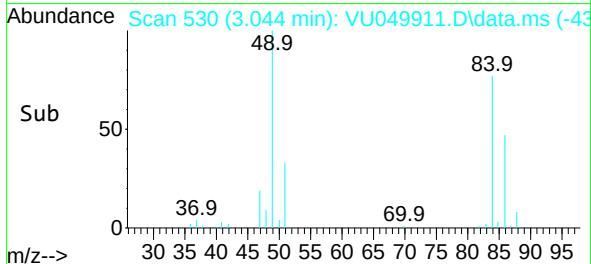
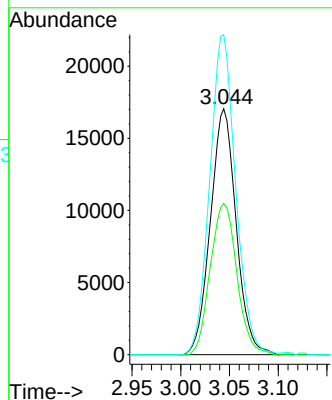
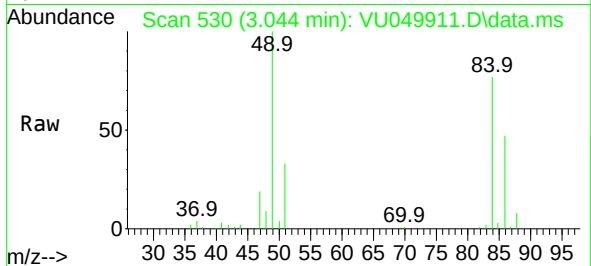




#16
Methylene chloride
Concen: 2.239 ug/L
RT: 3.044 min Scan# 51
Delta R.T. -0.000 min
Lab File: VU049911.D
Acq: 26 Jul 2022 14:42

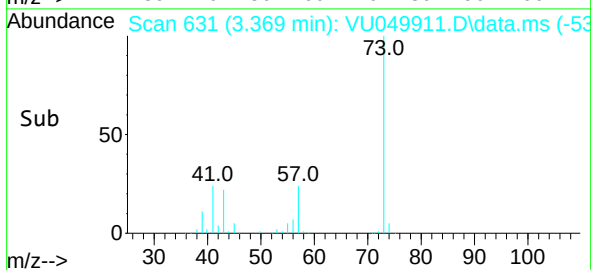
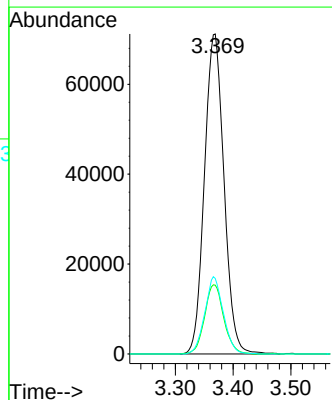
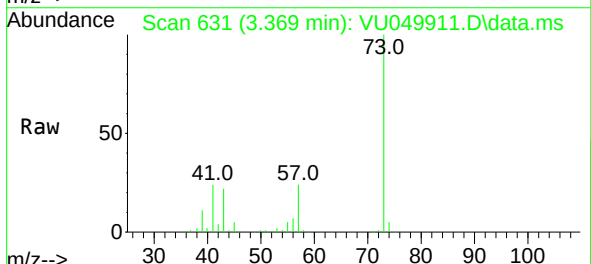
Instrument :
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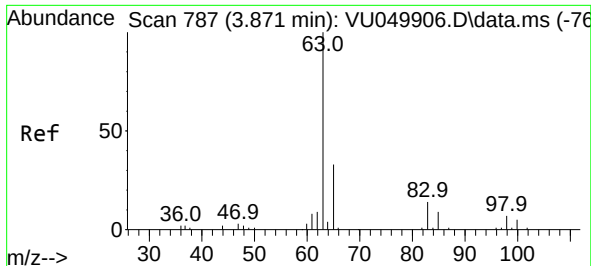
Tgt Ion: 84 Resp: 31330
Ion Ratio Lower Upper
84 100
86 61.5 45.5 84.5
49 130.1 94.1 174.8



#17
Methyl tert-butyl Ether
Concen: 8.324 ug/L
RT: 3.369 min Scan# 631
Delta R.T. 0.003 min
Lab File: VU049911.D
Acq: 26 Jul 2022 14:42

Tgt Ion: 73 Resp: 167299
Ion Ratio Lower Upper
73 100
43 21.3 17.4 26.2
57 22.8 18.7 28.1





#19

1,1-Dichloroethane

Concen: 9.086 ug/L

RT: 3.867 min Scan# 71

Delta R.T. -0.003 min

Lab File: VU049911.D

Acq: 26 Jul 2022 14:42

Instrument :

MSVOA_U

ClientSampleId :

GBJ33

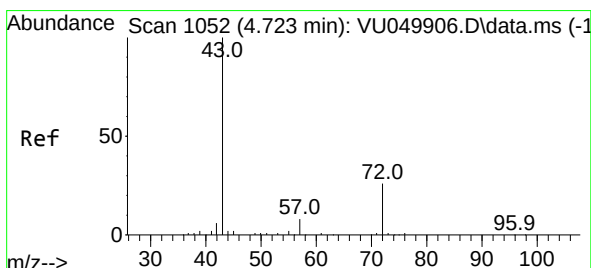
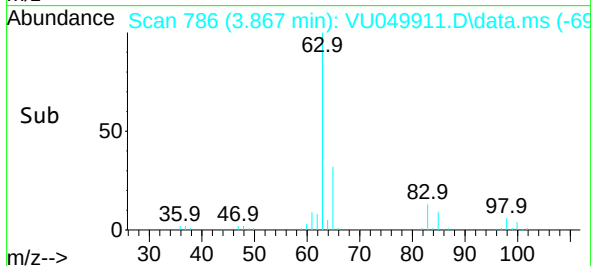
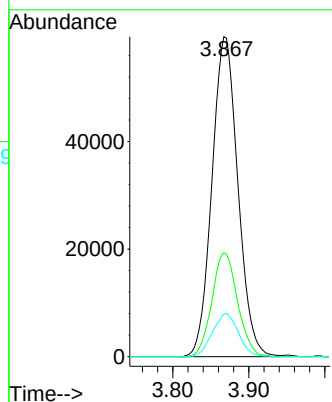
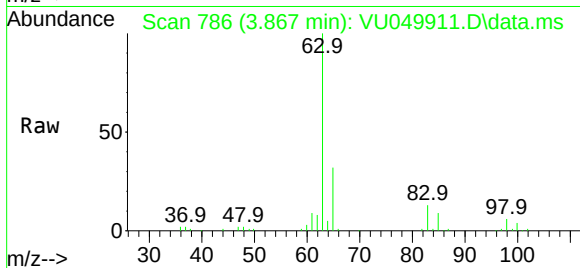
Tgt Ion: 63 Resp: 140823

Ion Ratio Lower Upper

63 100

65 32.4 22.5 41.9

83 13.3 8.3 15.5



#21

2-Butanone

Concen: 104.373 ug/L

RT: 4.716 min Scan# 1050

Delta R.T. -0.007 min

Lab File: VU049911.D

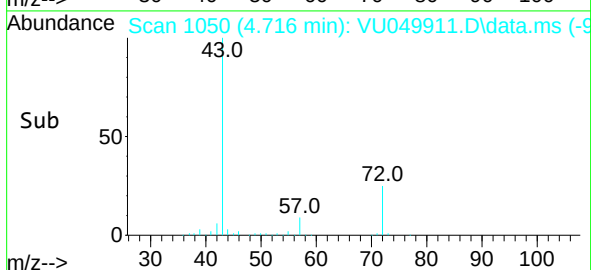
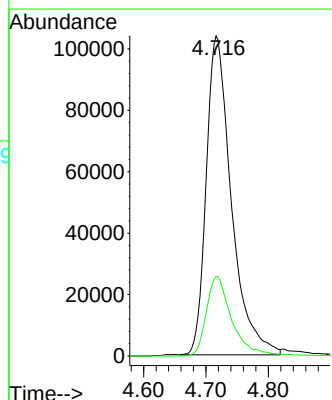
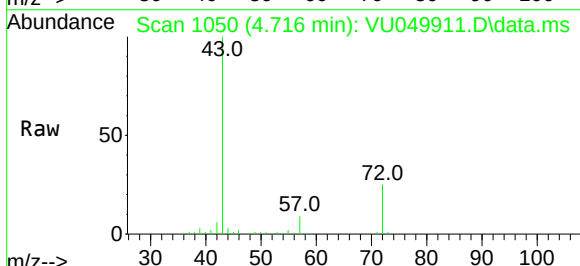
Acq: 26 Jul 2022 14:42

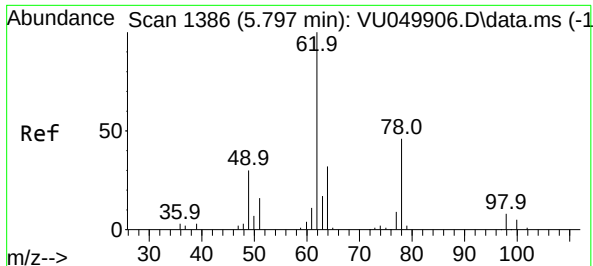
Tgt Ion: 43 Resp: 291208

Ion Ratio Lower Upper

43 100

72 25.1 11.9 35.5

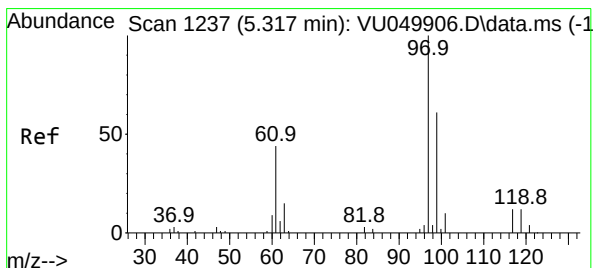
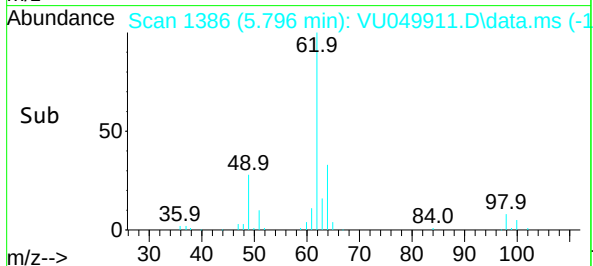
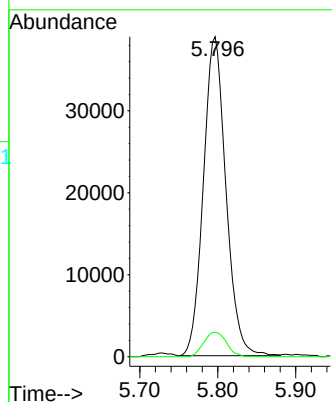
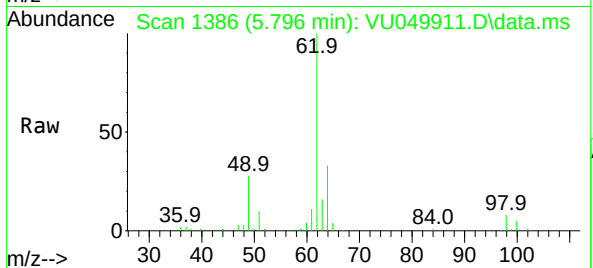




#27
1,2-Dichloroethane
Concen: 6.929 ug/L
RT: 5.796 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU049911.D
Acq: 26 Jul 2022 14:42

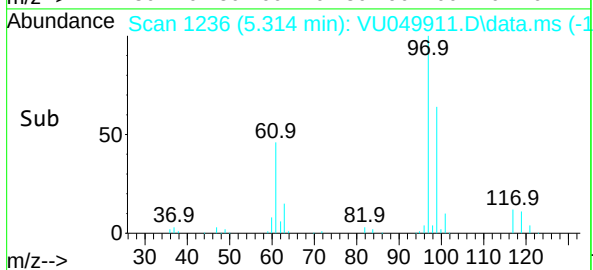
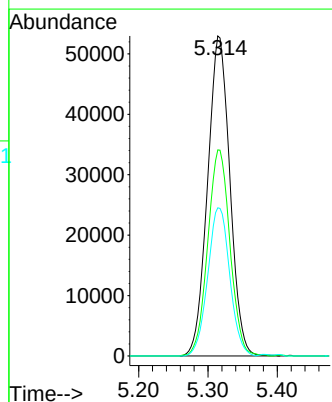
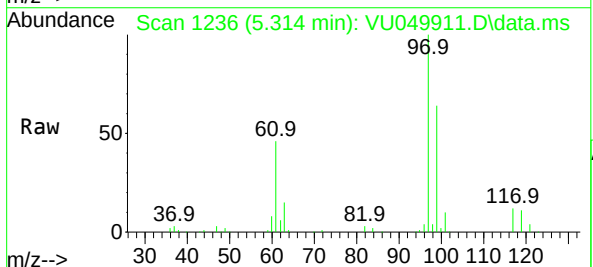
Instrument :
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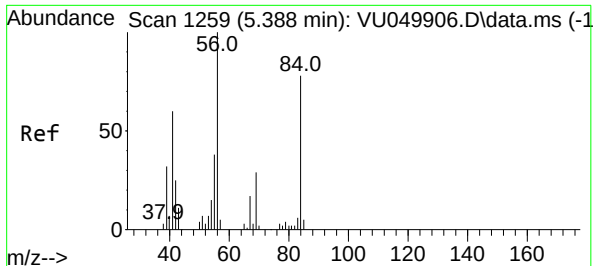
Tgt Ion: 62 Resp: 78259
Ion Ratio Lower Upper
62 100
98 7.7 5.9 8.9



#29
1,1,1-Trichloroethane
Concen: 9.267 ug/L
RT: 5.314 min Scan# 1236
Delta R.T. -0.003 min
Lab File: VU049911.D
Acq: 26 Jul 2022 14:42

Tgt Ion: 97 Resp: 118266
Ion Ratio Lower Upper
97 100
99 64.2 51.8 77.8
61 45.8 38.3 57.5





#30

Cyclohexane

Concen: 14.929 ug/L

RT: 5.388 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU049911.D

Acq: 26 Jul 2022 14:42

Instrument :

MSVOA_U

ClientSampleId :

GBJ33

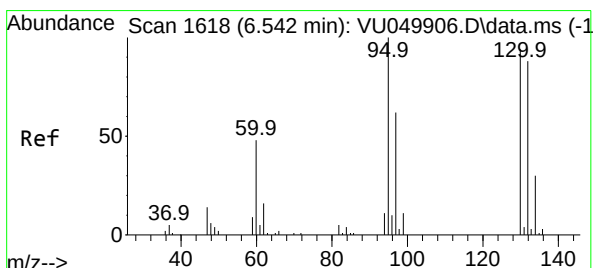
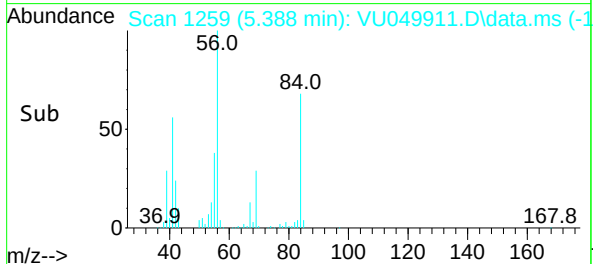
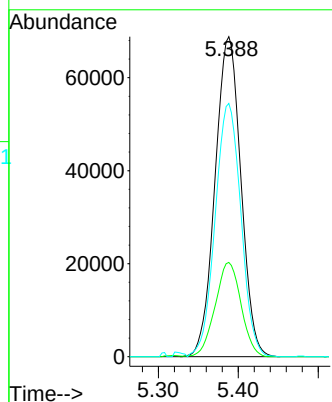
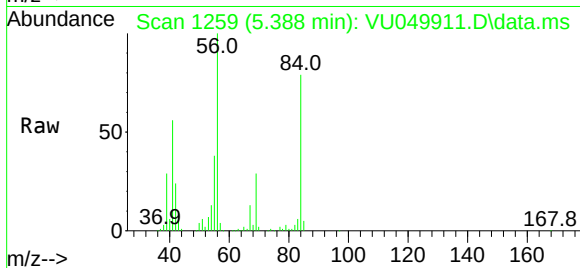
Tgt Ion: 56 Resp: 154271

Ion Ratio Lower Upper

56 100

69 29.5 22.8 34.2

84 78.9 63.0 94.6



#34

Trichloroethene

Concen: 5.695 ug/L

RT: 6.539 min Scan# 1617

Delta R.T. -0.003 min

Lab File: VU049911.D

Acq: 26 Jul 2022 14:42

Tgt Ion: 95 Resp: 45547

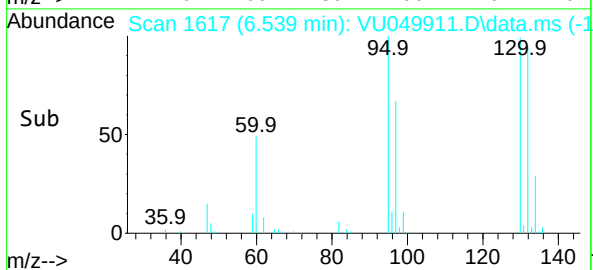
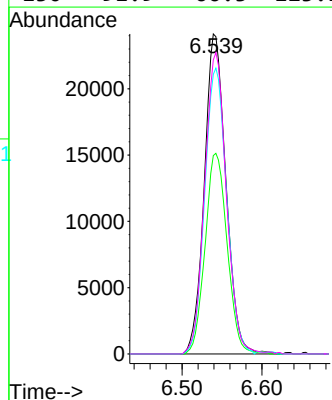
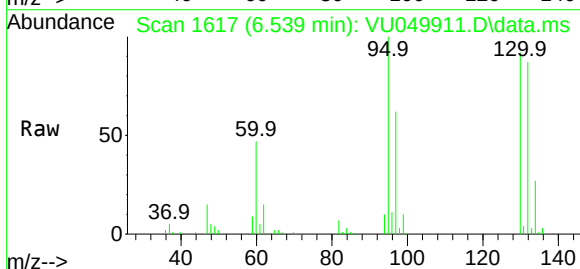
Ion Ratio Lower Upper

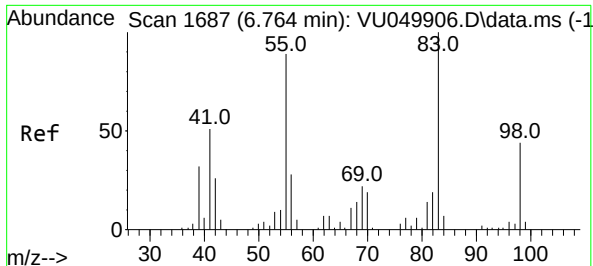
95 100

97 62.0 46.8 86.8

132 87.3 61.8 114.8

130 91.9 66.3 123.1

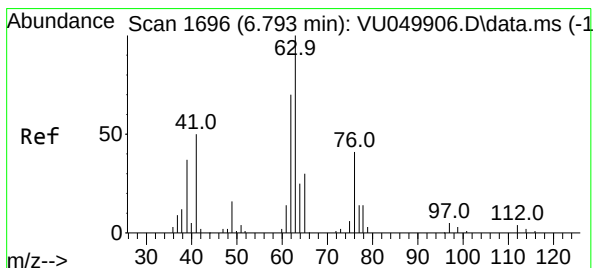
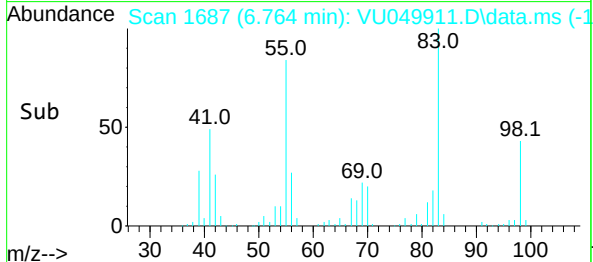
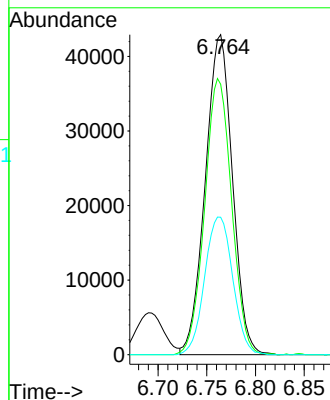
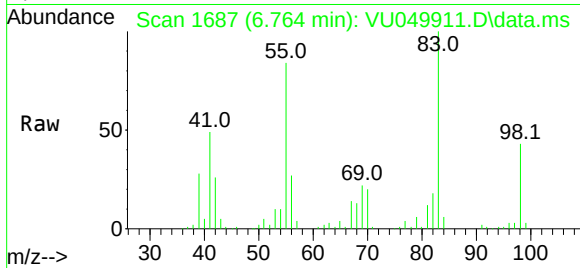




#35
Methylcyclohexane
Concen: 8.442 ug/L
RT: 6.764 min Scan# 1
Delta R.T. -0.000 min
Lab File: VU049911.D
Acq: 26 Jul 2022 14:42

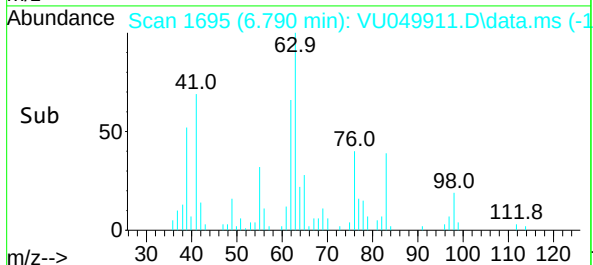
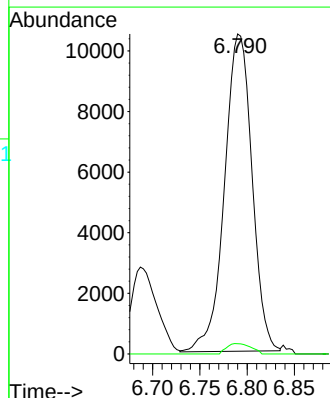
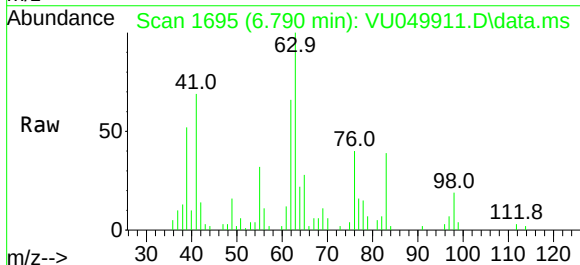
Instrument :
MSVOA_U
ClientSampleId :
GBJ33

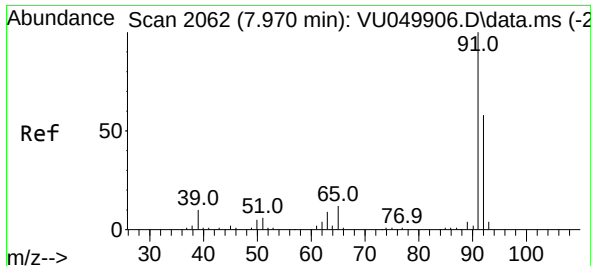
Tgt Ion: 83 Resp: 83287
Ion Ratio Lower Upper
83 100
55 85.5 69.0 103.4
98 44.4 36.4 54.6



#37
1,2-Dichloropropane
Concen: 2.255 ug/L
RT: 6.790 min Scan# 1695
Delta R.T. -0.003 min
Lab File: VU049911.D
Acq: 26 Jul 2022 14:42

Tgt Ion: 63 Resp: 21202
Ion Ratio Lower Upper
63 100
112 2.9 2.8 4.2





#42

Toluene

Concen: 8.885 ug/L

RT: 7.967 min Scan# 2062

Delta R.T. -0.003 min

Lab File: VU049911.D

Acq: 26 Jul 2022 14:42

Instrument :

MSVOA_U

ClientSampleId :

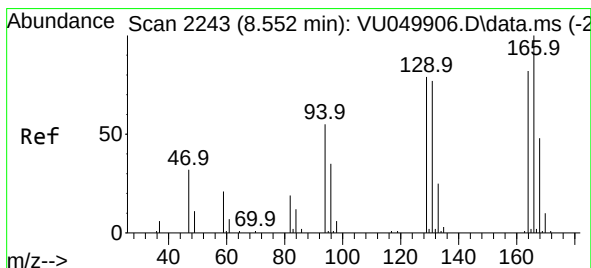
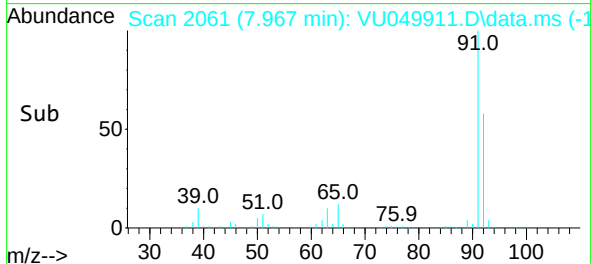
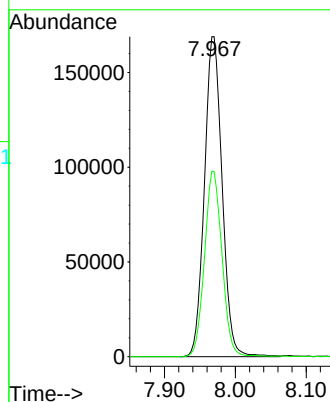
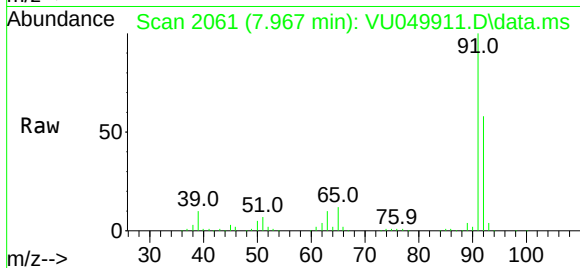
GBJ33

Tgt Ion: 91 Resp: 293158

Ion Ratio Lower Upper

91 100

92 58.0 39.5 73.4



#47

Tetrachloroethene

Concen: 9.613 ug/L

RT: 8.552 min Scan# 2243

Delta R.T. -0.000 min

Lab File: VU049911.D

Acq: 26 Jul 2022 14:42

Tgt Ion: 164 Resp: 52926

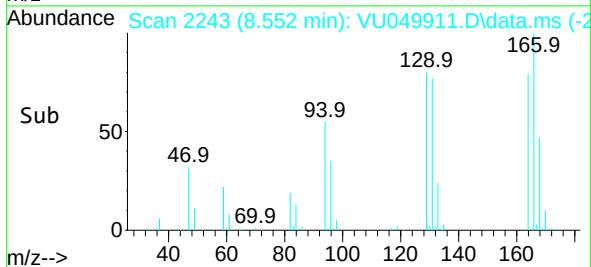
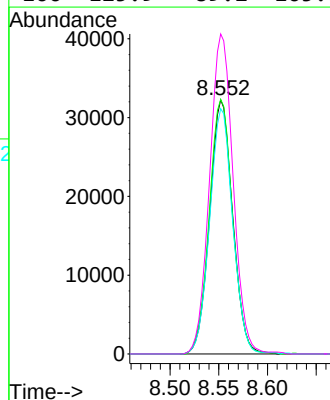
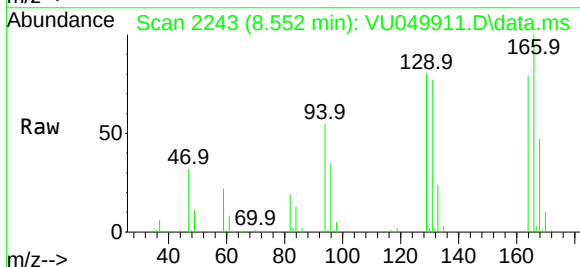
Ion Ratio Lower Upper

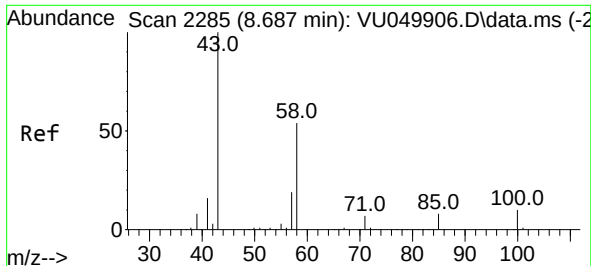
164 100

129 100.2 68.9 127.9

131 96.5 67.5 125.4

166 125.9 89.2 165.8



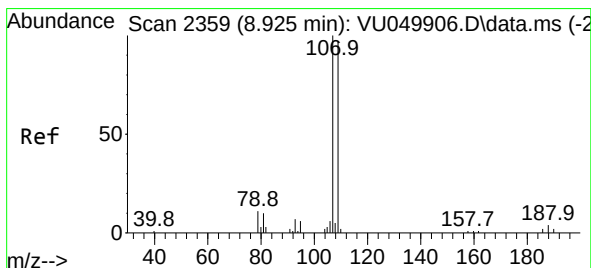
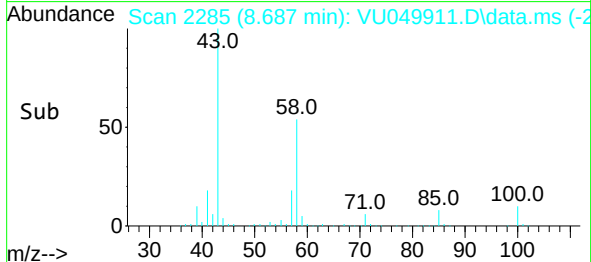
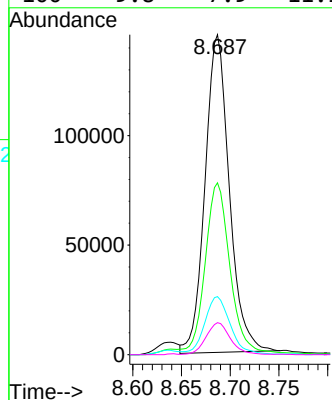
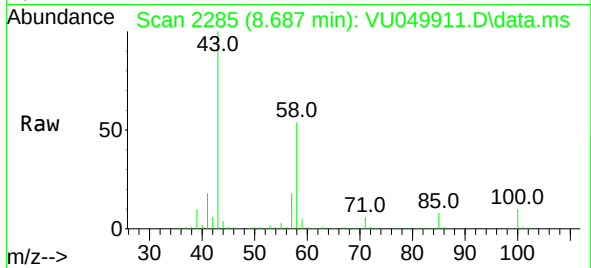


#48
2-Hexanone
Concen: 51.363 ug/L
RT: 8.687 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU049911.D
Acq: 26 Jul 2022 14:42

Instrument :
MSVOA_U
ClientSampleId :
GBJ33

Tgt Ion: 43 Resp: 251397

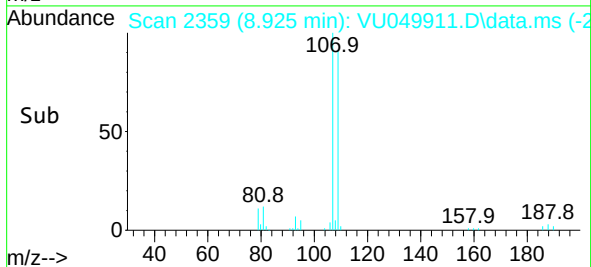
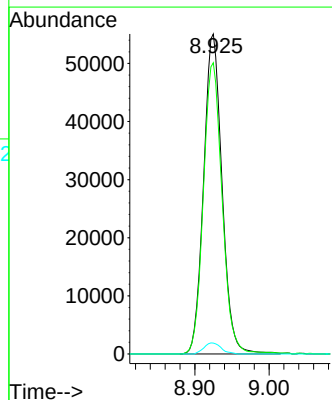
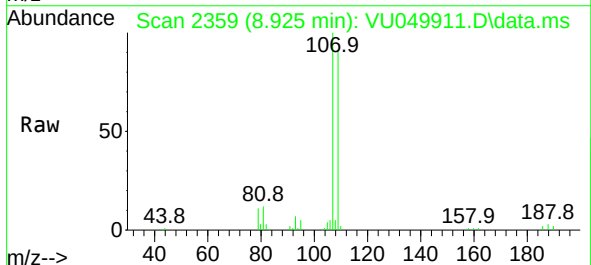
Ion	Ratio	Lower	Upper
43	100		
58	55.5	42.1	63.1
57	19.0	14.3	21.5
100	9.8	7.9	11.9

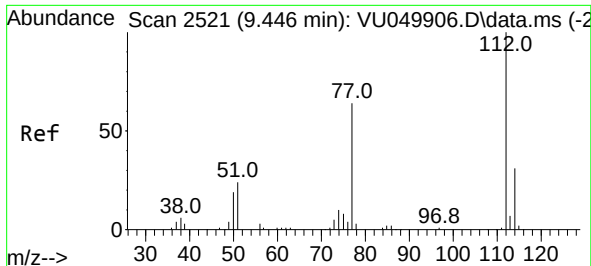


#50
1,2-Dibromoethane
Concen: 15.912 ug/L
RT: 8.925 min Scan# 2359
Delta R.T. -0.000 min
Lab File: VU049911.D
Acq: 26 Jul 2022 14:42

Tgt Ion: 107 Resp: 94815

Ion	Ratio	Lower	Upper
107	100		
109	91.0	65.6	121.8
188	3.4	2.8	4.2

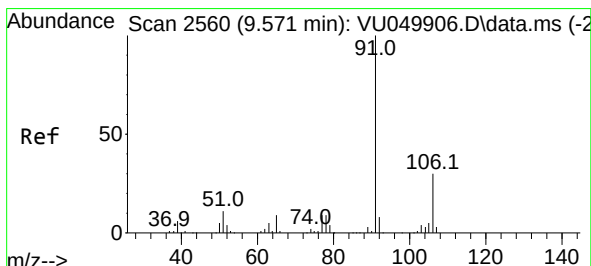
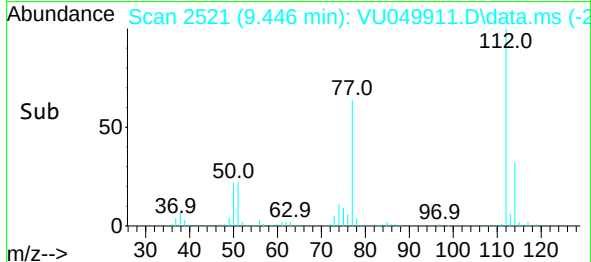
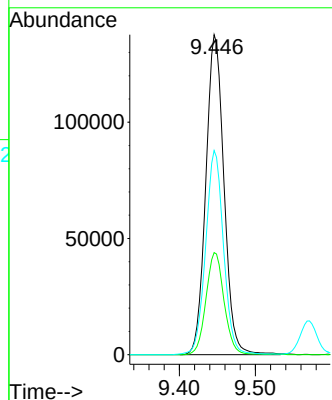
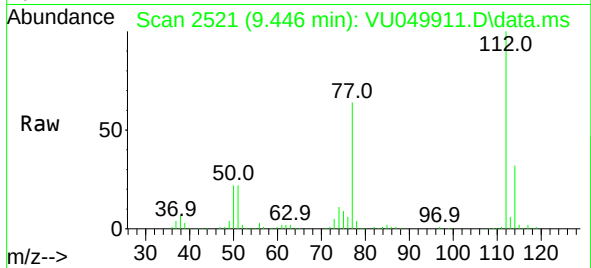




#51
Chlorobenzene
Concen: 10.899 ug/L
RT: 9.446 min Scan# 211
Delta R.T. -0.000 min
Lab File: VU049911.D
Acq: 26 Jul 2022 14:42

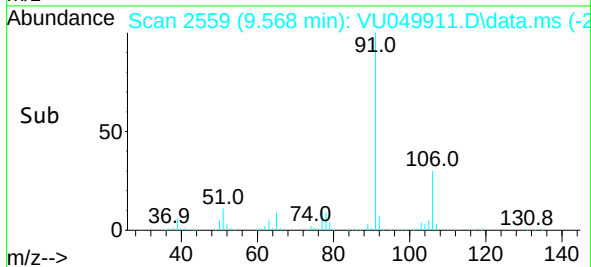
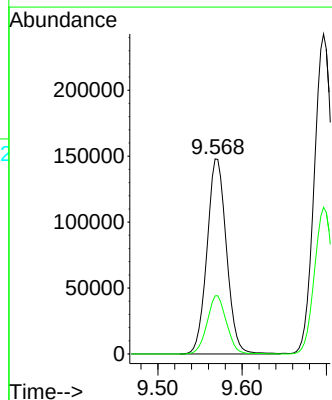
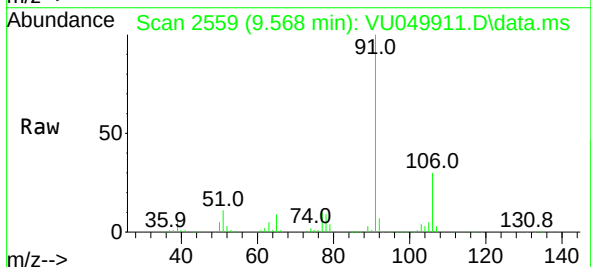
Instrument :
MSVOA_U
ClientSampleId :
GBJ33

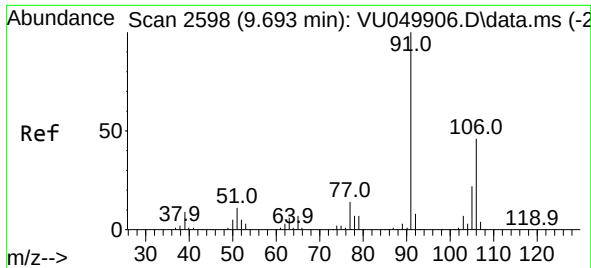
Tgt Ion:112 Resp: 228288
Ion Ratio Lower Upper
112 100
114 31.9 22.4 41.6
77 63.8 51.2 76.8



#52
Ethylbenzene
Concen: 7.008 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. -0.003 min
Lab File: VU049911.D
Acq: 26 Jul 2022 14:42

Tgt Ion: 91 Resp: 237746
Ion Ratio Lower Upper
91 100
106 29.8 20.6 38.4

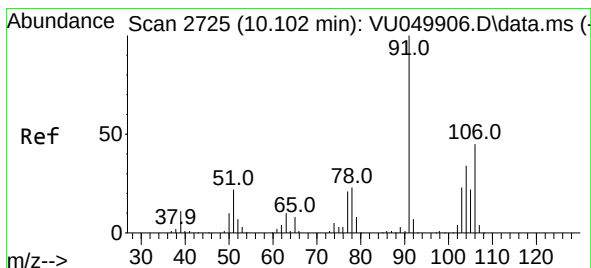
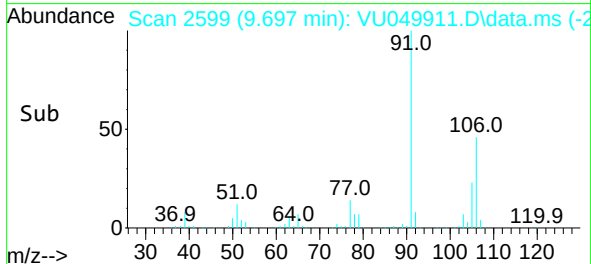
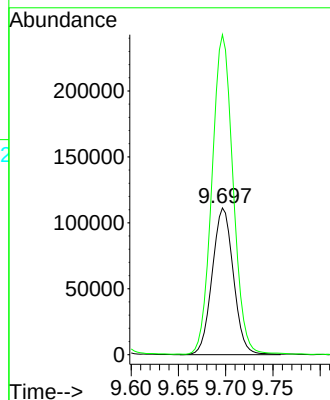
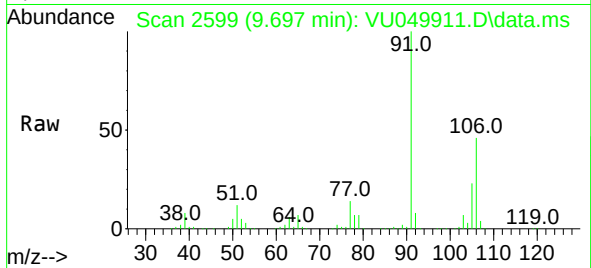




#53
m,p-Xylene
Concen: 13.902 ug/L
RT: 9.697 min Scan# 2598
Delta R.T. 0.003 min
Lab File: VU049911.D
Acq: 26 Jul 2022 14:42

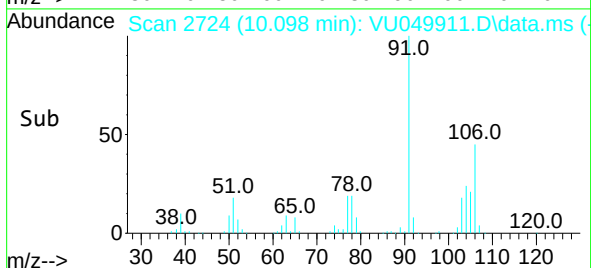
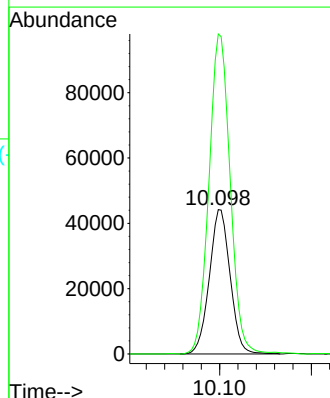
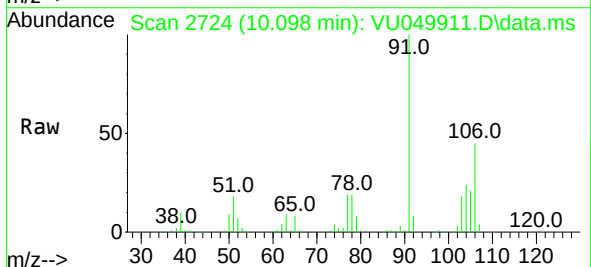
Instrument :
MSVOA_U
ClientSampleId :
GBJ33

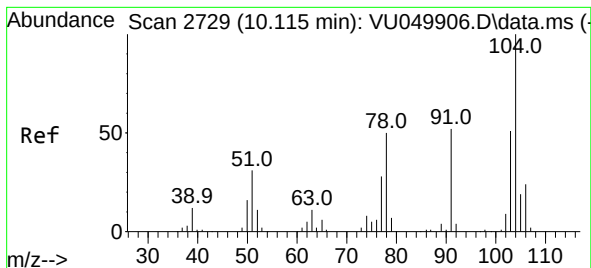
Tgt Ion:106 Resp: 173495
Ion Ratio Lower Upper
106 100
91 218.0 149.7 277.9



#54
o-Xylene
Concen: 5.634 ug/L
RT: 10.098 min Scan# 2724
Delta R.T. -0.003 min
Lab File: VU049911.D
Acq: 26 Jul 2022 14:42

Tgt Ion:106 Resp: 69482
Ion Ratio Lower Upper
106 100
91 221.7 159.4 296.0





#55

Styrene

Concen: 5.624 ug/L

RT: 10.115 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU049911.D

Acq: 26 Jul 2022 14:42

Instrument :

MSVOA_U

ClientSampleId :

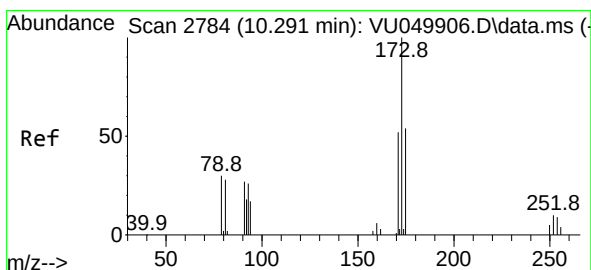
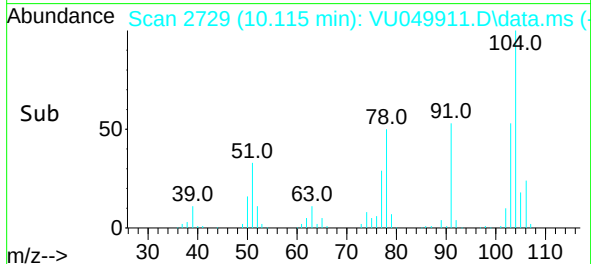
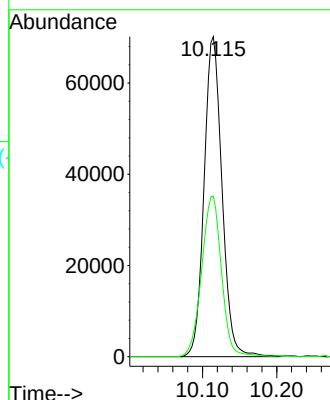
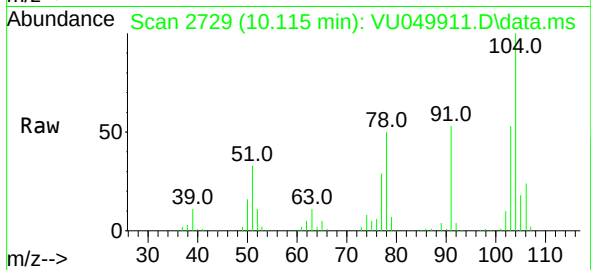
GBJ33

Tgt Ion:104 Resp: 117483

Ion Ratio Lower Upper

104 100

78 50.2 35.1 65.3



#59

Bromoform

Concen: 5.366 ug/L

RT: 10.291 min Scan# 2784

Delta R.T. -0.000 min

Lab File: VU049911.D

Acq: 26 Jul 2022 14:42

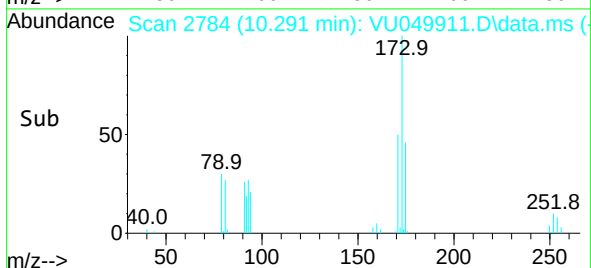
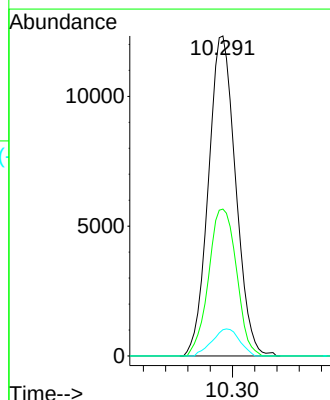
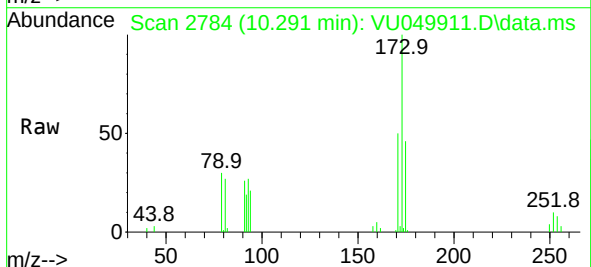
Tgt Ion:173 Resp: 20896

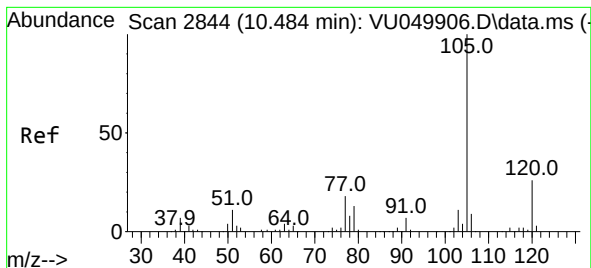
Ion Ratio Lower Upper

173 100

175 47.0 39.5 59.3

254 8.5 7.5 11.3





#60

Isopropylbenzene

Concen: 3.720 ug/L

RT: 10.484 min Scan# 2844

Delta R.T. -0.000 min

Lab File: VU049911.D

Acq: 26 Jul 2022 14:42

Instrument :

MSVOA_U

ClientSampleId :

GBJ33

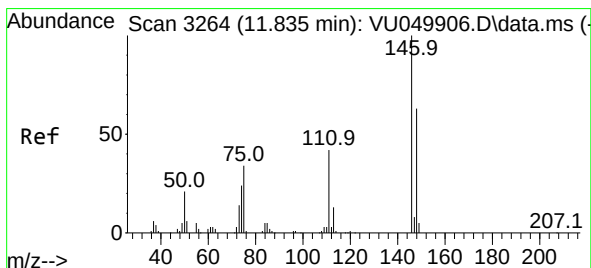
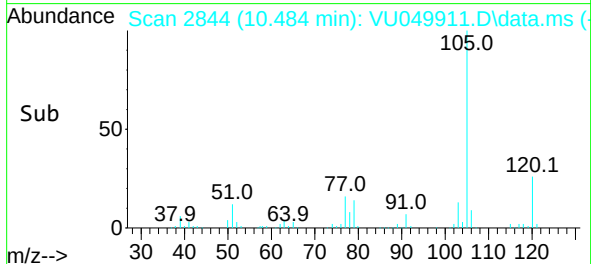
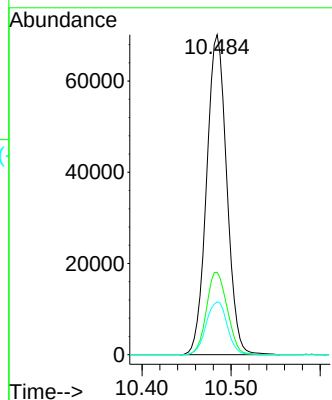
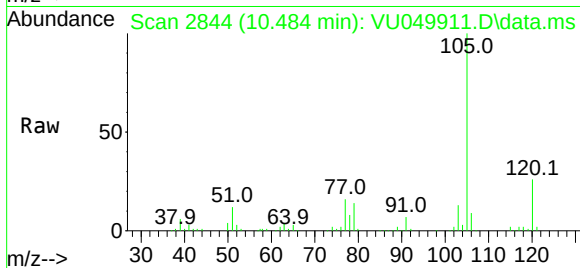
Tgt Ion:105 Resp: 110110

Ion Ratio Lower Upper

105 100

120 26.6 20.4 30.6

77 17.3 13.8 20.8



#65

1,4-Dichlorobenzene

Concen: 4.350 ug/L

RT: 11.838 min Scan# 3265

Delta R.T. 0.003 min

Lab File: VU049911.D

Acq: 26 Jul 2022 14:42

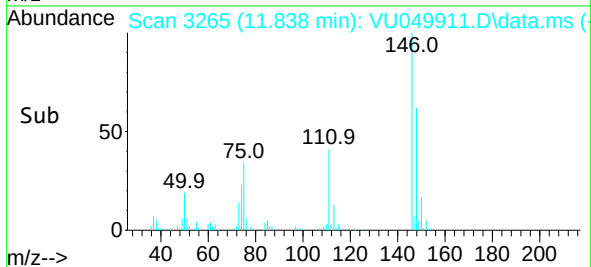
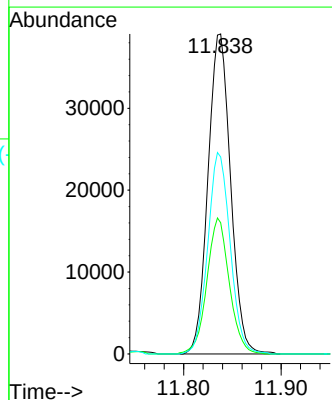
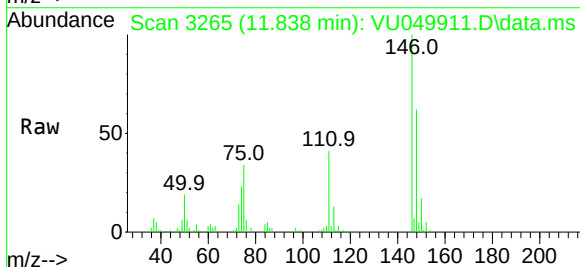
Tgt Ion:146 Resp: 62988

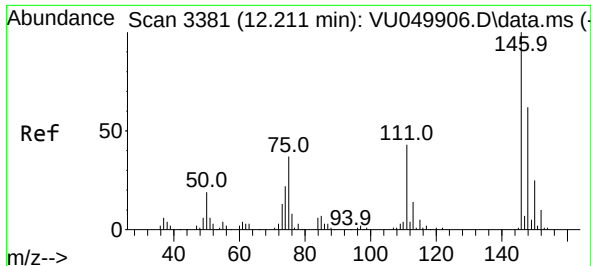
Ion Ratio Lower Upper

146 100

111 41.0 29.5 54.7

148 61.5 44.1 81.9





#67

1,2-Dichlorobenzene

Concen: 12.149 ug/L

RT: 12.211 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU049911.D

Acq: 26 Jul 2022 14:42

Instrument :

MSVOA_U

ClientSampleId :

GBJ33

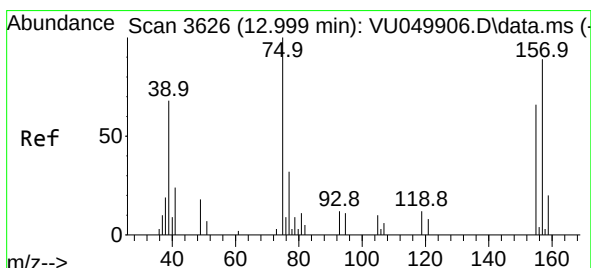
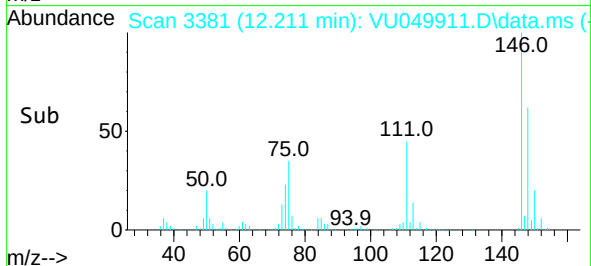
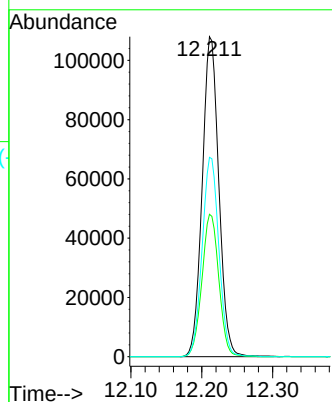
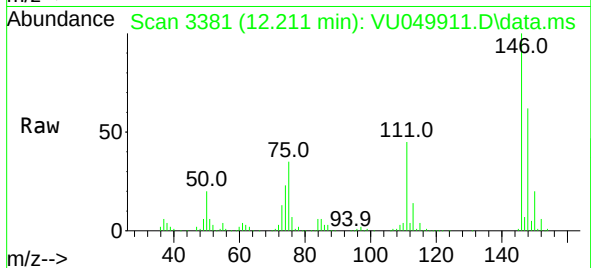
Tgt Ion:146 Resp: 175647

Ion Ratio Lower Upper

146 100

111 44.5 35.8 53.8

148 62.3 50.3 75.5



#68

1,2-Dibromo-3-chloropropane

Concen: 3.983 ug/L

RT: 12.999 min Scan# 3626

Delta R.T. -0.000 min

Lab File: VU049911.D

Acq: 26 Jul 2022 14:42

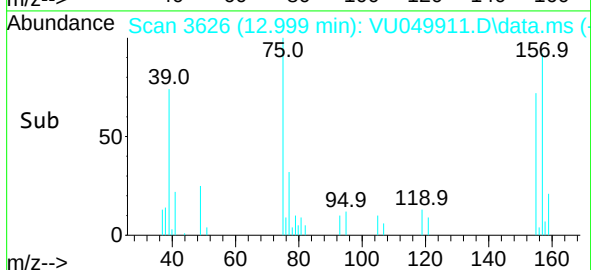
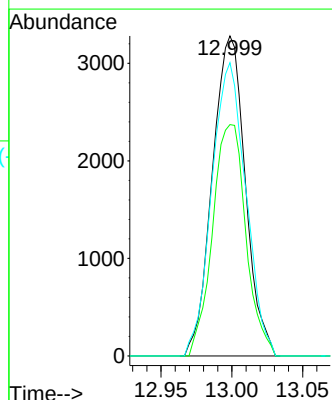
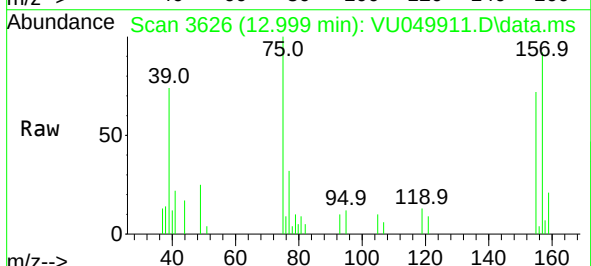
Tgt Ion: 75 Resp: 5311

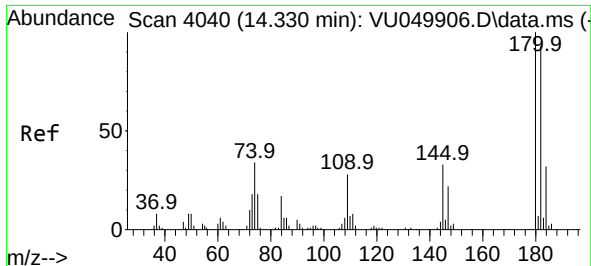
Ion Ratio Lower Upper

75 100

155 72.3 60.4 90.6

157 91.7 70.0 105.0





#72
 1,2,3-Trichlorobenzene
 Concen: 10.063 ug/L
 RT: 14.330 min Scan# 40
 Delta R.T. -0.000 min
 Lab File: VU049911.D
 Acq: 26 Jul 2022 14:42

Instrument :
 MSVOA_U
 ClientSampleId :
 GBJ33

Tgt Ion:180 Resp: 87740
 Ion Ratio Lower Upper
 180 100
 182 95.6 73.9 110.9
 145 33.0 27.8 41.6

