

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072822\
 Data File : VU049982.D
 Acq On : 28 Jul 2022 13:02
 Operator : SY/MD
 Sample : N3873-09
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GBJ33

Quant Time: Jul 29 02:35:49 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR072722WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Jul 29 02:27:55 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	103984	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	103728	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	44307	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	39074	4.377	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.600%
7) Chloroethane-d5	1.912	69	31234	4.871	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.400%
11) 1,1-Dichloroethene-d2	2.562	65	15351	4.989	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.800%
20) 2-Butanone-d5	4.642	46	93773	47.183	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.360%
24) Chloroform-d	5.063	84	68489	4.636	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.800%
26) 1,2-Dichloroethane-d4	5.703	65	35544	4.774	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.400%
32) Benzene-d6	5.726	84	144288	4.707	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.200%
36) 1,2-Dichloropropane-d6	6.694	67	46608	4.641	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.800%
41) Toluene-d8	7.899	98	117604	4.317	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.400%
43) trans-1,3-Dichloroprop...	8.179	79	16569	4.708	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.200%
46) 2-Hexanone-d5	8.636	63	64811	49.194	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.380%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	41745	4.948	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.000%
66) 1,2-Dichlorobenzene-d4	12.192	152	42151	5.129	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.520	50	34055	3.581	ug/L	97
6) Bromomethane	1.858	94	16600	3.356	ug/L	97
9) Trichlorofluoromethane	2.137	101	81740	7.765	ug/L	99
12) 1,1-Dichloroethene	2.575	96	22259	3.879	ug/L	84
13) Acetone	2.645	43	65485	46.878	ug/L	99
14) Carbon disulfide	2.784	76	93825	5.382	ug/L	99
16) Methylene chloride	3.041	84	28731	3.256	ug/L	97
17) Methyl tert-butyl Ether	3.369	73	145817	9.089	ug/L	99
19) 1,1-Dichloroethane	3.867	63	123848	9.571	ug/L	97
21) 2-Butanone	4.719	43	231722	115.170	ug/L	89
27) 1,2-Dichloroethane	5.796	62	62517	7.725	ug/L	97
29) 1,1,1-Trichloroethane	5.314	97	95686	8.687	ug/L	99
30) Cyclohexane	5.388	56	111700	12.015	ug/L	98
34) Trichloroethene	6.542	95	39509	5.369	ug/L	99
35) Methylcyclohexane	6.764	83	64511	6.646	ug/L	99
37) 1,2-Dichloropropane	6.793	63	19212	2.303	ug/L	# 96
42) Toluene	7.970	91	271342	8.814	ug/L	98
47) Tetrachloroethene	8.552	164	47280	8.927	ug/L	97
48) 2-Hexanone	8.687	43	210468	57.272	ug/L	100

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

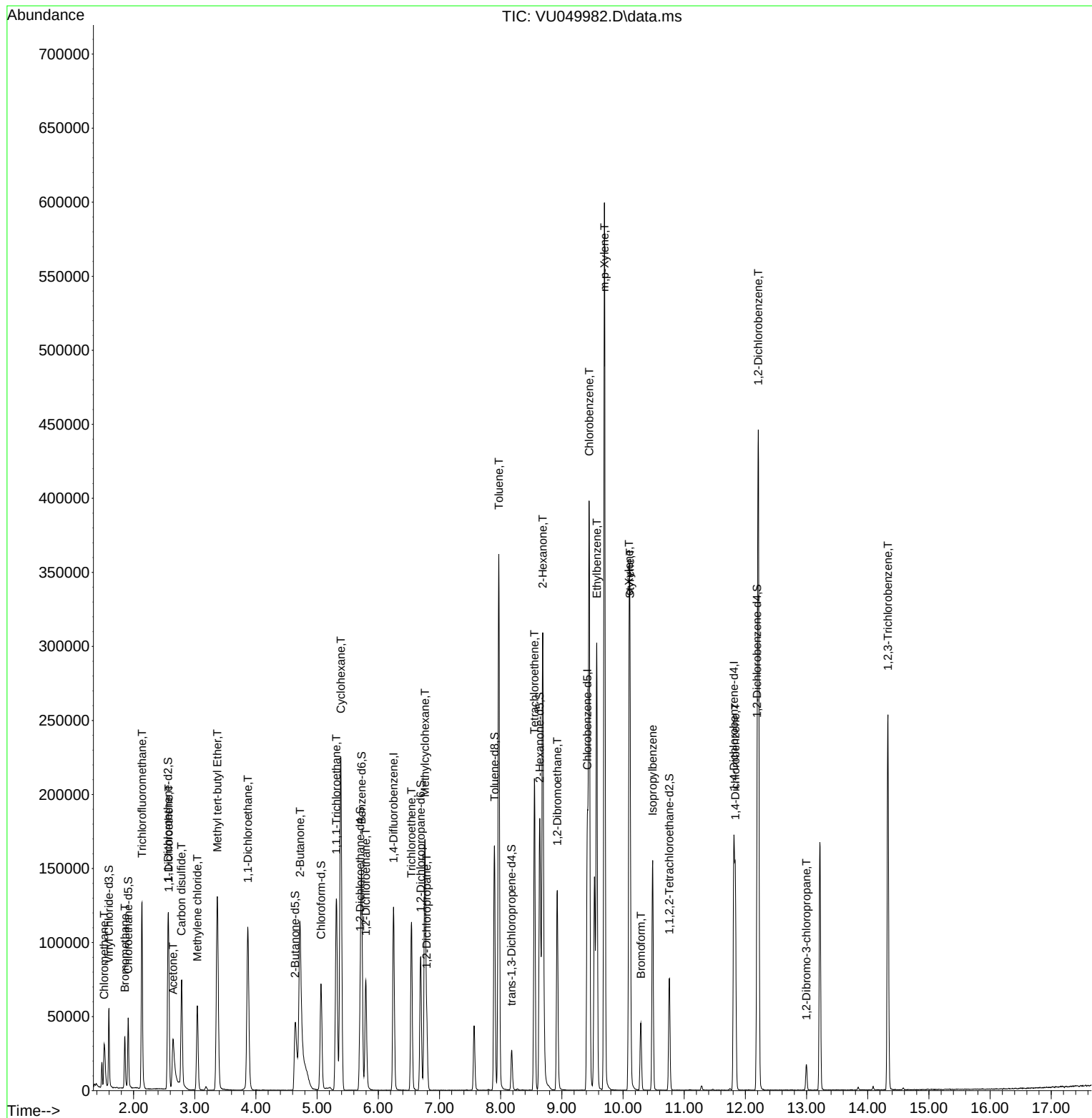
50) 1,2-Dibromoethane	8.925	107	93048	16.809	ug/L	95
51) Chlorobenzene	9.446	112	216302	11.069	ug/L	99
52) Ethylbenzene	9.571	91	211446	7.012	ug/L	100
53) m,p-Xylene	9.697	106	162867	14.183	ug/L	99
54) o-Xylene	10.099	106	65428	5.877	ug/L	97
55) Styrene	10.115	104	111714	5.891	ug/L	98
59) Bromoform	10.291	173	21937	6.160	ug/L	96
60) Isopropylbenzene	10.484	105	98246	3.753	ug/L	99
65) 1,4-Dichlorobenzene	11.835	146	57634	4.648	ug/L	98
67) 1,2-Dichlorobenzene	12.211	146	168780	13.555	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.996	75	5103	5.021	ug/L	99
72) 1,2,3-Trichlorobenzene	14.330	180	77860	10.883	ug/L	100

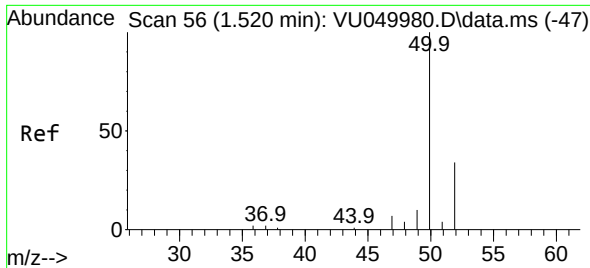
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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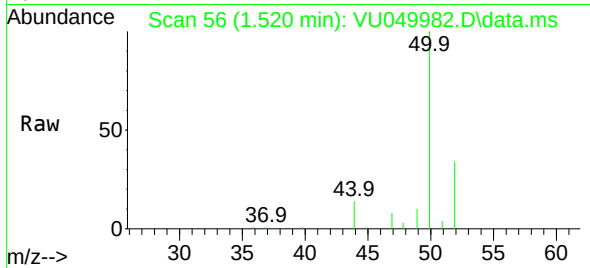
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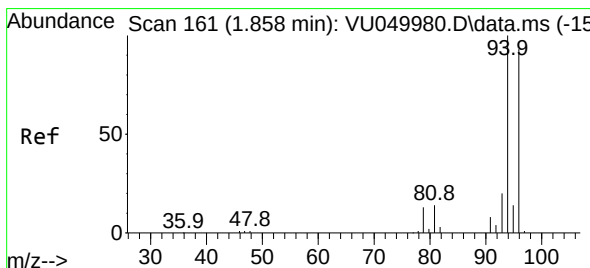
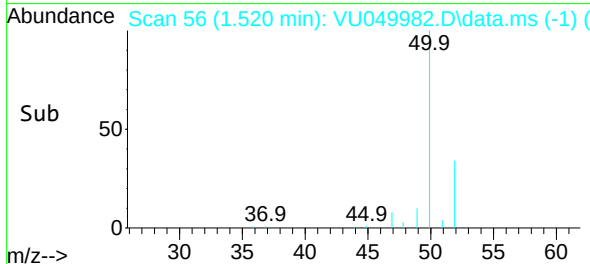
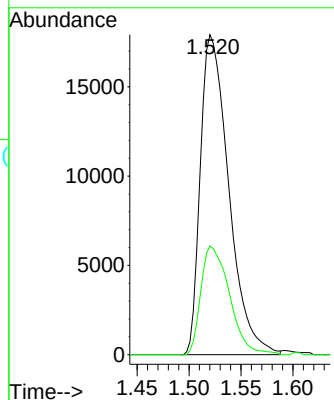


#3
Chloromethane
Concen: 3.581 ug/L
RT: 1.520 min Scan# 50
Delta R.T. 0.000 min
Lab File: VU049982.D
Acq: 28 Jul 2022 13:02

Instrument :
MSVOA_U
ClientSampleId :
GBJ33

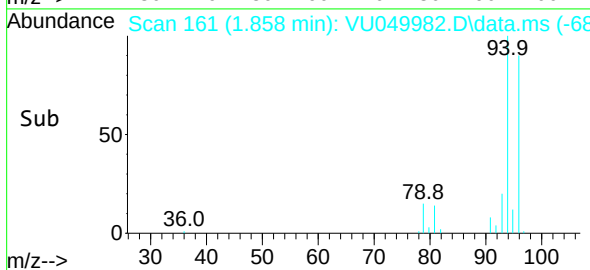
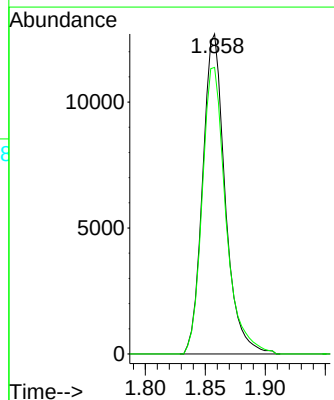
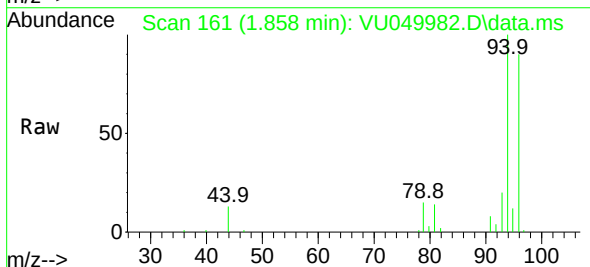


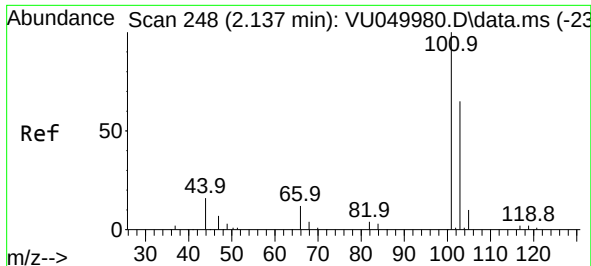
Tgt Ion: 50 Resp: 34055
Ion Ratio Lower Upper
50 100
52 34.0 22.4 41.6



#6
Bromomethane
Concen: 3.356 ug/L
RT: 1.858 min Scan# 161
Delta R.T. 0.000 min
Lab File: VU049982.D
Acq: 28 Jul 2022 13:02

Tgt Ion: 94 Resp: 16600
Ion Ratio Lower Upper
94 100
96 89.5 64.5 119.9

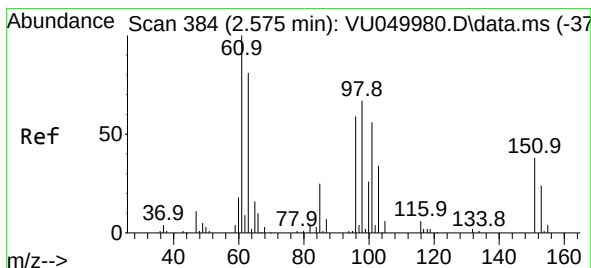
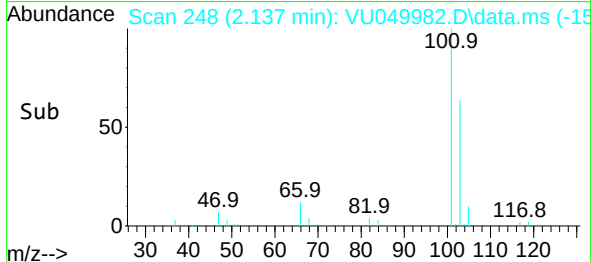
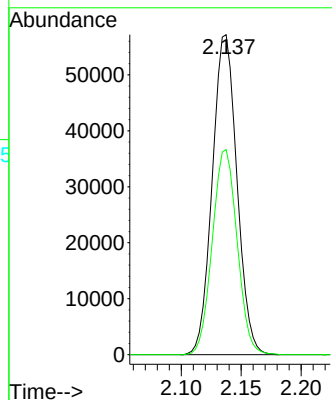
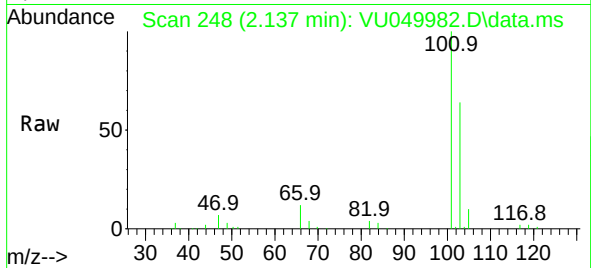




#9
 Trichlorofluoromethane
 Concen: 7.765 ug/L
 RT: 2.137 min Scan# 248
 Delta R.T. 0.000 min
 Lab File: VU049982.D
 Acq: 28 Jul 2022 13:02

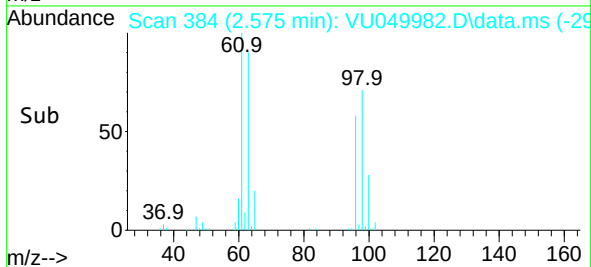
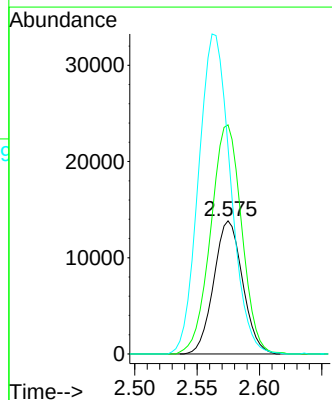
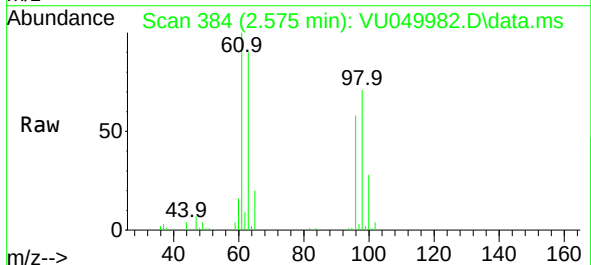
Instrument :
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 ClientSampleId :
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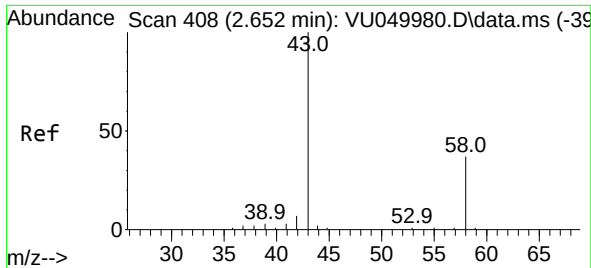
Tgt Ion:101 Resp: 81740
 Ion Ratio Lower Upper
 101 100
 103 64.4 51.0 76.6



#12
 1,1-Dichloroethene
 Concen: 3.879 ug/L
 RT: 2.575 min Scan# 384
 Delta R.T. 0.000 min
 Lab File: VU049982.D
 Acq: 28 Jul 2022 13:02

Tgt Ion: 96 Resp: 22259
 Ion Ratio Lower Upper
 96 100
 61 172.1 115.7 214.9
 63 155.3 84.8 157.4





#13

Acetone

Concen: 46.878 ug/L

RT: 2.645 min Scan# 408

Delta R.T. -0.006 min

Lab File: VU049982.D

Acq: 28 Jul 2022 13:02

Instrument :

MSVOA_U

ClientSampleId :

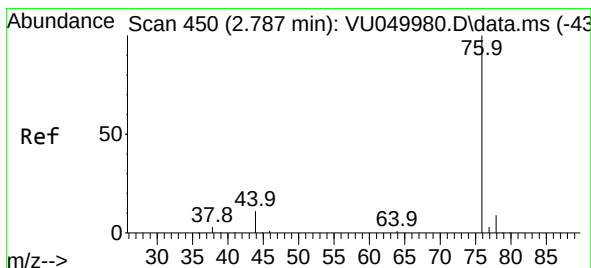
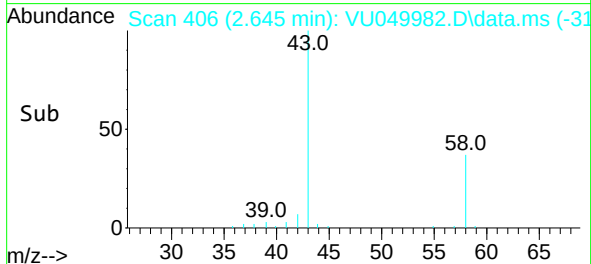
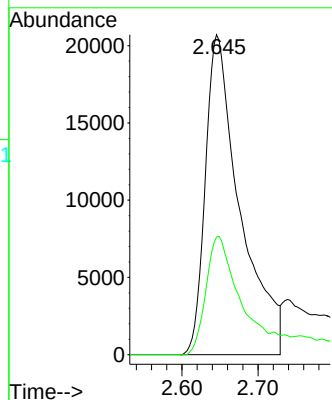
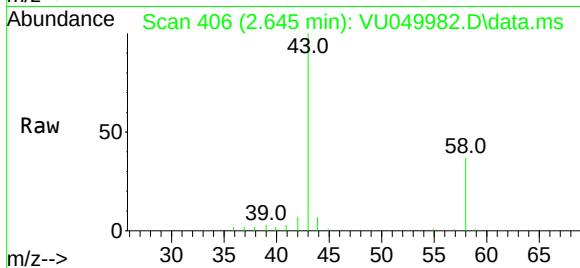
GBJ33

Tgt Ion: 43 Resp: 65485

Ion Ratio Lower Upper

43 100

58 35.9 0.0 73.0



#14

Carbon disulfide

Concen: 5.382 ug/L

RT: 2.784 min Scan# 449

Delta R.T. -0.003 min

Lab File: VU049982.D

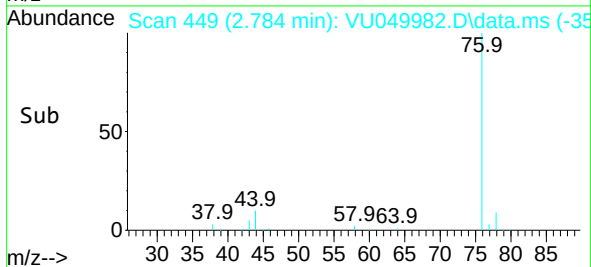
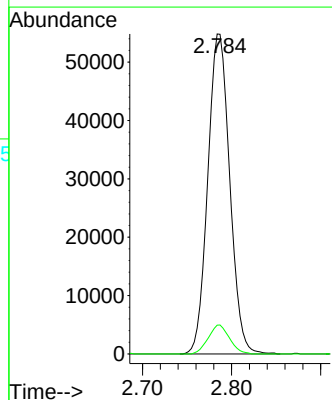
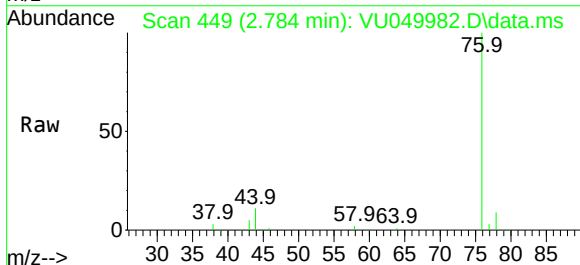
Acq: 28 Jul 2022 13:02

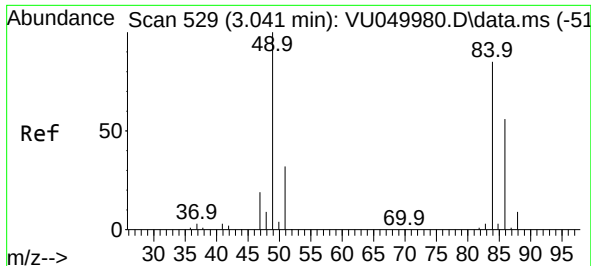
Tgt Ion: 76 Resp: 93825

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0

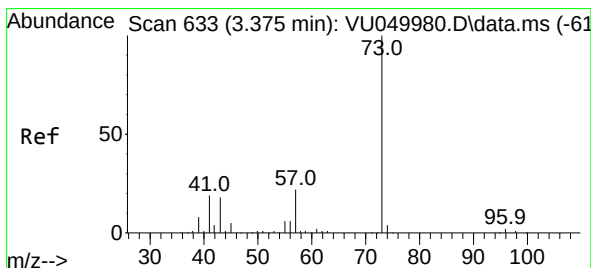
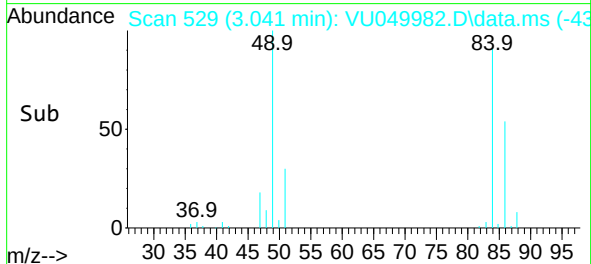
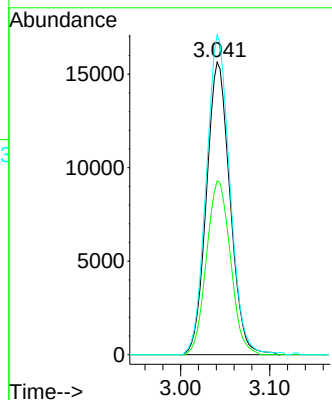
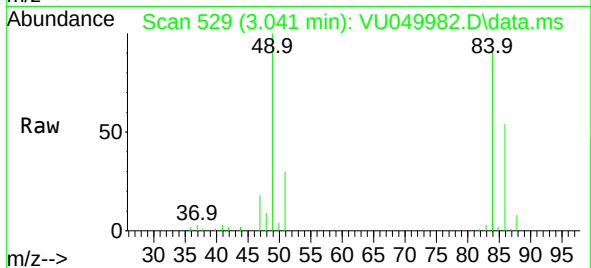




#16
Methylene chloride
Concen: 3.256 ug/L
RT: 3.041 min Scan# 51
Delta R.T. 0.000 min
Lab File: VU049982.D
Acq: 28 Jul 2022 13:02

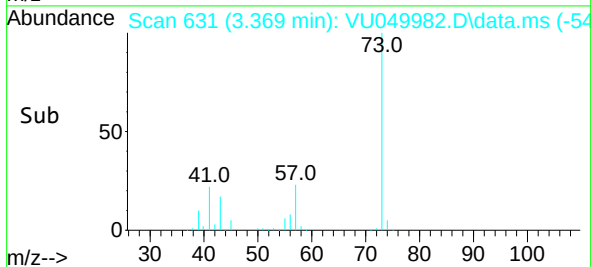
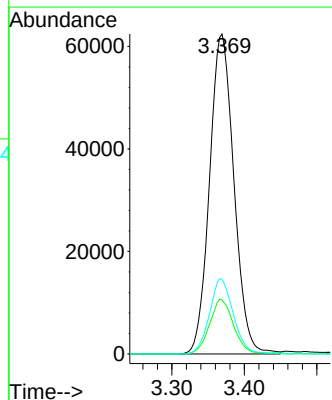
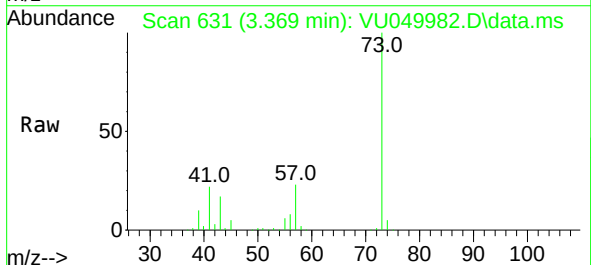
Instrument :
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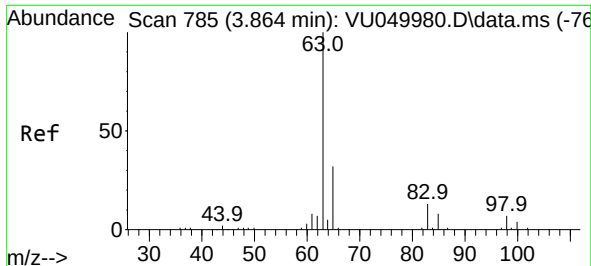
Tgt Ion: 84 Resp: 28731
Ion Ratio Lower Upper
84 100
86 59.4 45.2 84.0
49 109.3 77.6 144.0



#17
Methyl tert-butyl Ether
Concen: 9.089 ug/L
RT: 3.369 min Scan# 631
Delta R.T. -0.006 min
Lab File: VU049982.D
Acq: 28 Jul 2022 13:02

Tgt Ion: 73 Resp: 145817
Ion Ratio Lower Upper
73 100
43 16.8 13.8 20.6
57 22.9 17.9 26.9





#19

1,1-Dichloroethane

Concen: 9.571 ug/L

RT: 3.867 min Scan# 71

Delta R.T. 0.003 min

Lab File: VU049982.D

Acq: 28 Jul 2022 13:02

Instrument :

MSVOA_U

ClientSampleId :

GBJ33

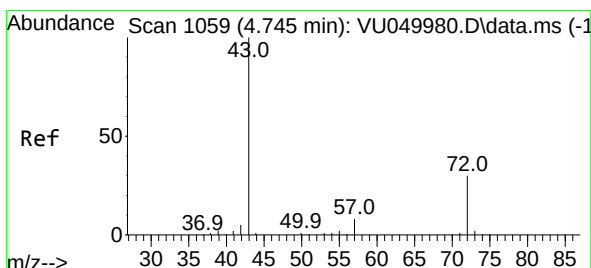
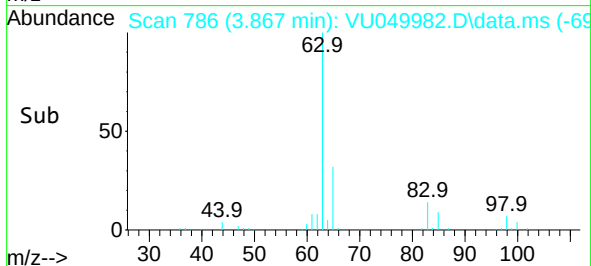
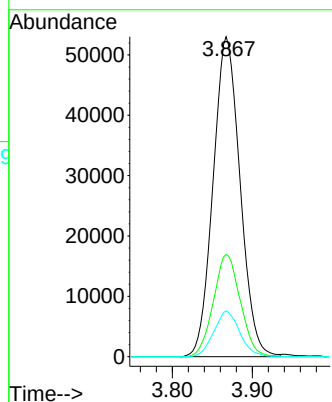
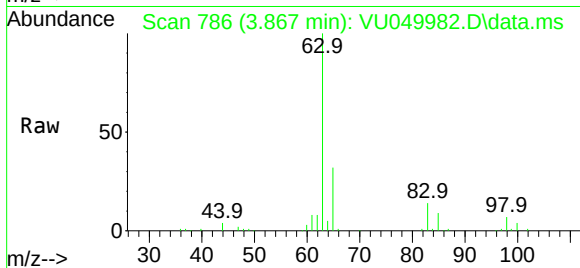
Tgt Ion: 63 Resp: 123848

Ion Ratio Lower Upper

63 100

65 31.9 23.4 43.6

83 14.4 9.4 17.4



#21

2-Butanone

Concen: 115.170 ug/L

RT: 4.719 min Scan# 1051

Delta R.T. -0.026 min

Lab File: VU049982.D

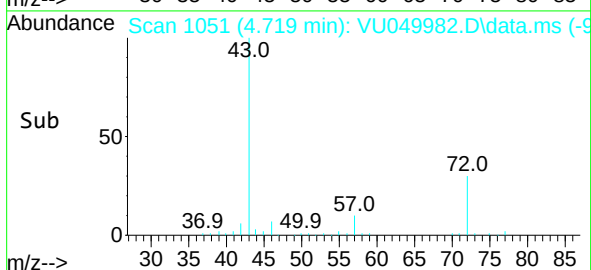
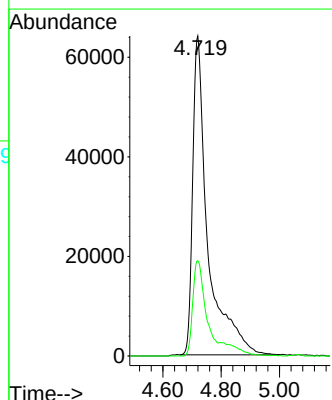
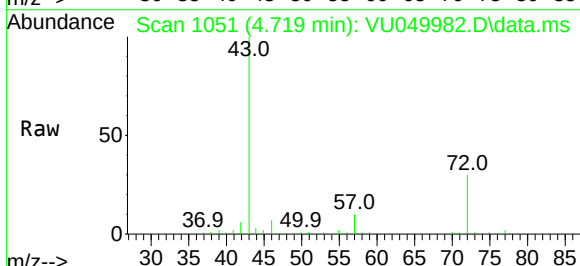
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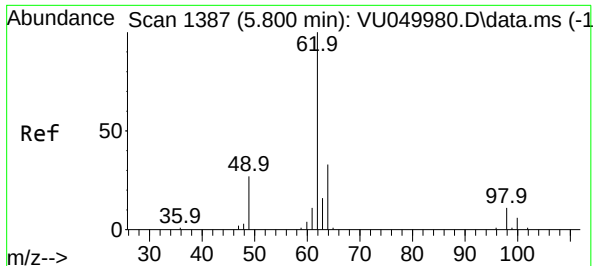
Tgt Ion: 43 Resp: 231722

Ion Ratio Lower Upper

43 100

72 25.4 15.8 47.3





#27

1,2-Dichloroethane

Concen: 7.725 ug/L

RT: 5.796 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU049982.D

Acq: 28 Jul 2022 13:02

Instrument :

MSVOA_U

ClientSampleId :

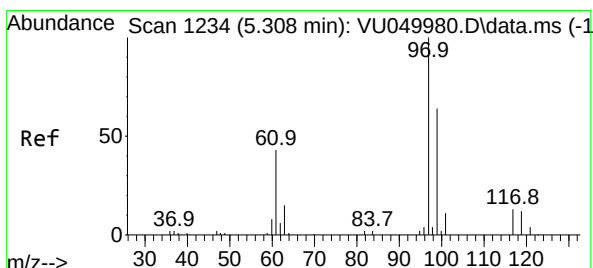
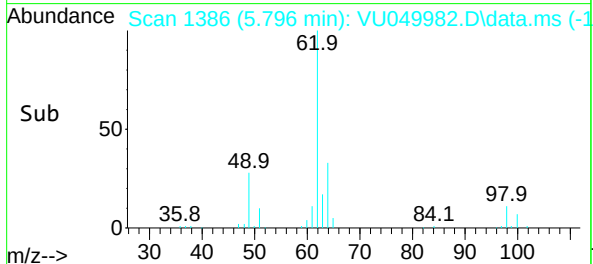
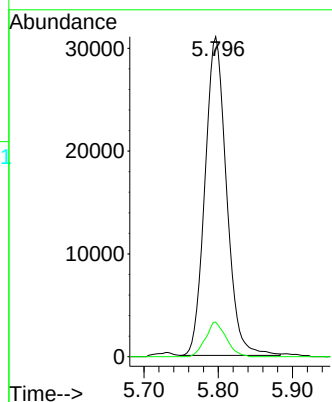
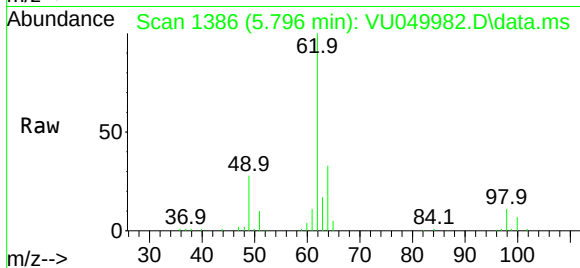
GBJ33

Tgt Ion: 62 Resp: 62517

Ion Ratio Lower Upper

62 100

98 10.8 7.9 11.9



#29

1,1,1-Trichloroethane

Concen: 8.687 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. 0.007 min

Lab File: VU049982.D

Acq: 28 Jul 2022 13:02

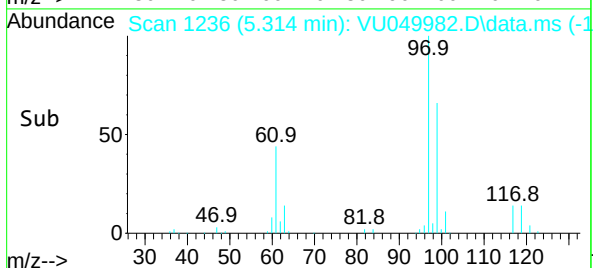
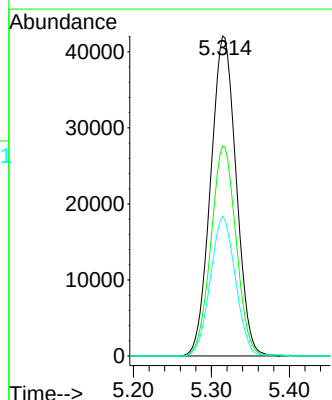
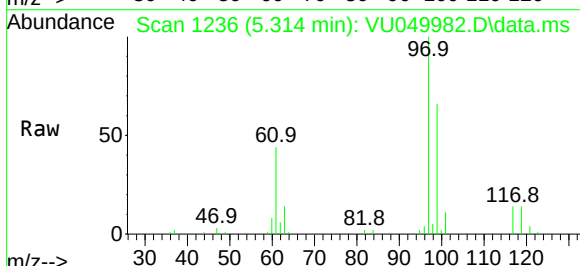
Tgt Ion: 97 Resp: 95686

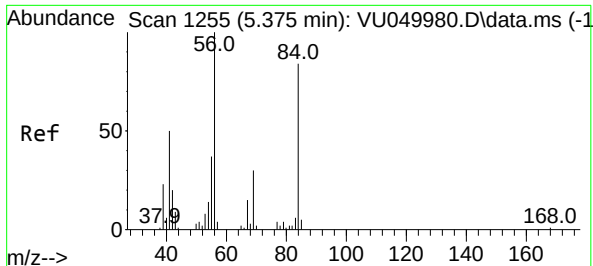
Ion Ratio Lower Upper

97 100

99 64.6 52.0 78.0

61 42.8 35.0 52.6





#30

Cyclohexane

Concen: 12.015 ug/L

RT: 5.388 min Scan# 11

Delta R.T. 0.013 min

Lab File: VU049982.D

Acq: 28 Jul 2022 13:02

Instrument :

MSVOA_U

ClientSampleId :

GBJ33

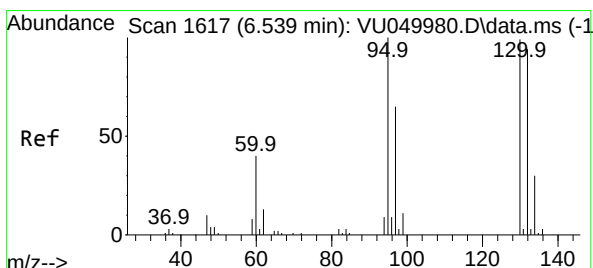
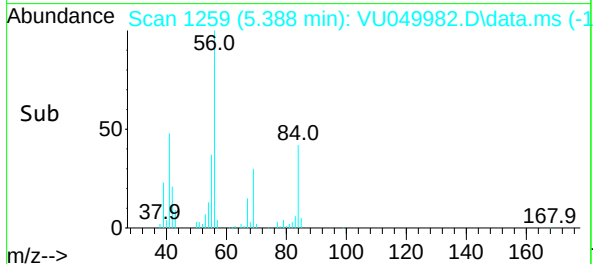
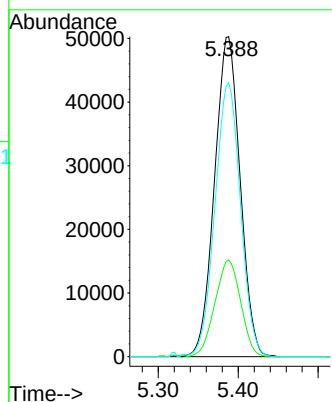
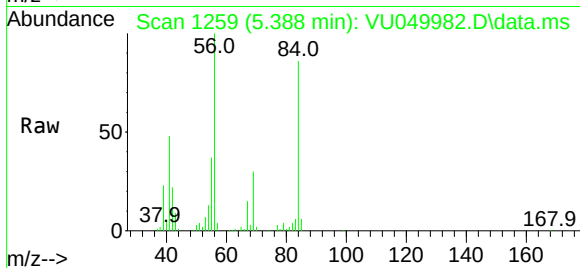
Tgt Ion: 56 Resp: 111700

Ion Ratio Lower Upper

56 100

69 30.3 25.1 37.7

84 85.6 70.1 105.1



#34

Trichloroethene

Concen: 5.369 ug/L

RT: 6.542 min Scan# 1618

Delta R.T. 0.003 min

Lab File: VU049982.D

Acq: 28 Jul 2022 13:02

Tgt Ion: 95 Resp: 39509

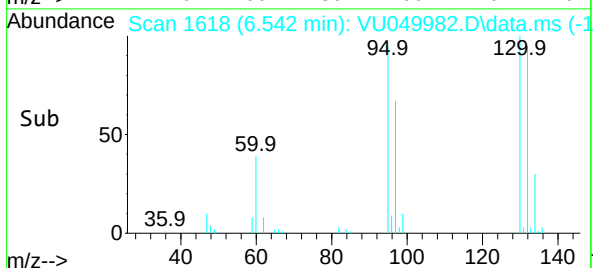
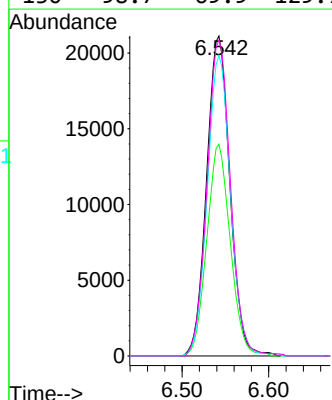
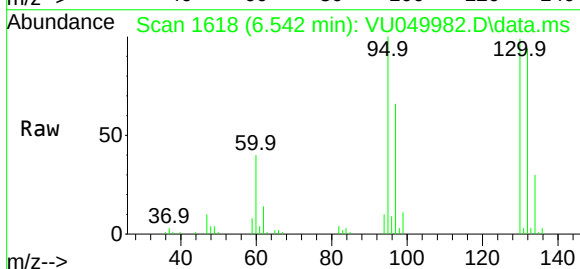
Ion Ratio Lower Upper

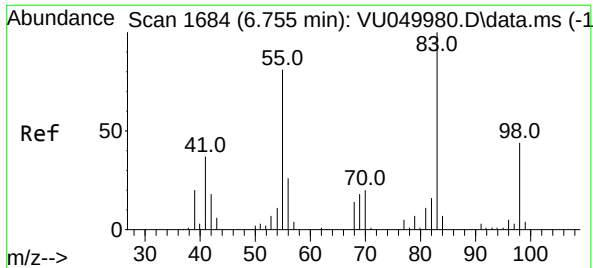
95 100

97 66.2 45.6 84.8

132 93.9 66.8 124.2

130 98.7 69.9 129.7

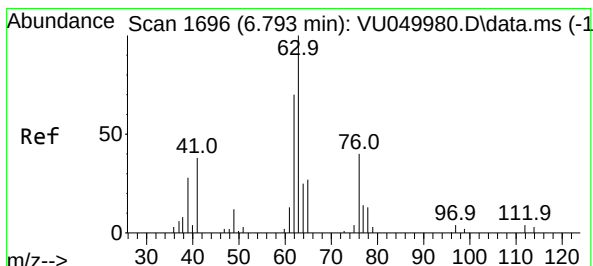
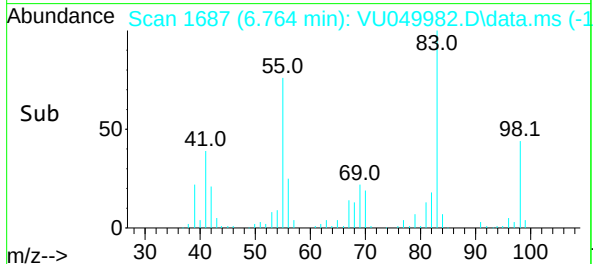
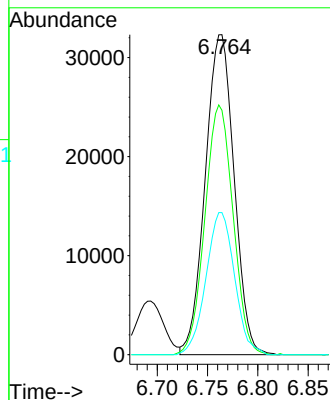
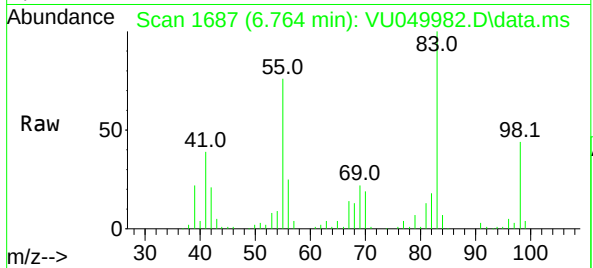




#35
Methylcyclohexane
Concen: 6.646 ug/L
RT: 6.764 min Scan# 1687
Delta R.T. 0.010 min
Lab File: VU049982.D
Acq: 28 Jul 2022 13:02

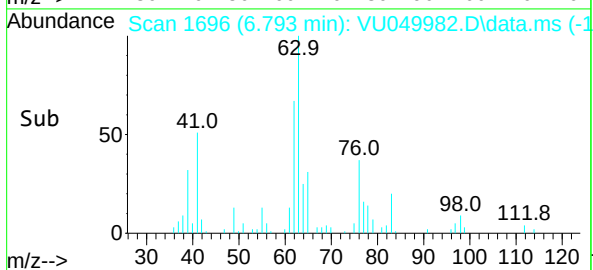
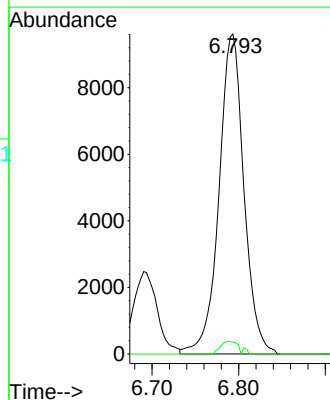
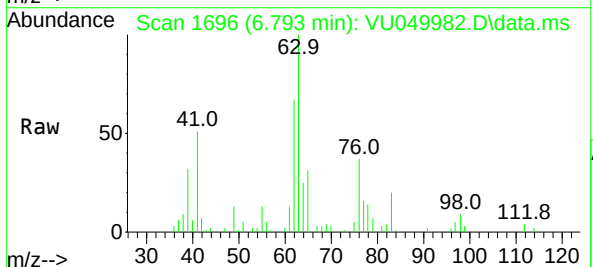
Instrument :
MSVOA_U
ClientSampleId :
GBJ33

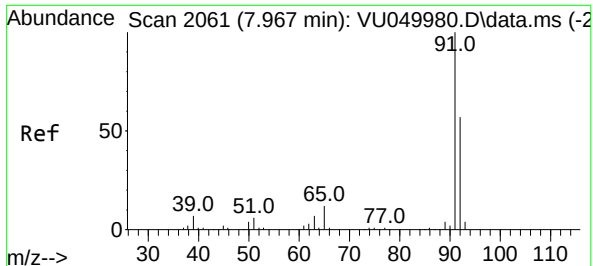
Tgt Ion: 83 Resp: 64511
Ion Ratio Lower Upper
83 100
55 76.2 61.6 92.4
98 44.0 34.8 52.2



#37
1,2-Dichloropropane
Concen: 2.303 ug/L
RT: 6.793 min Scan# 1696
Delta R.T. 0.000 min
Lab File: VU049982.D
Acq: 28 Jul 2022 13:02

Tgt Ion: 63 Resp: 19212
Ion Ratio Lower Upper
63 100
112 2.6 3.0 4.6#





#42

Toluene

Concen: 8.814 ug/L

RT: 7.970 min Scan# 2061

Delta R.T. 0.003 min

Lab File: VU049982.D

Acq: 28 Jul 2022 13:02

Instrument :

MSVOA_U

ClientSampleId :

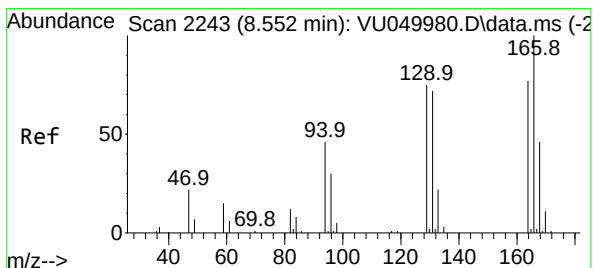
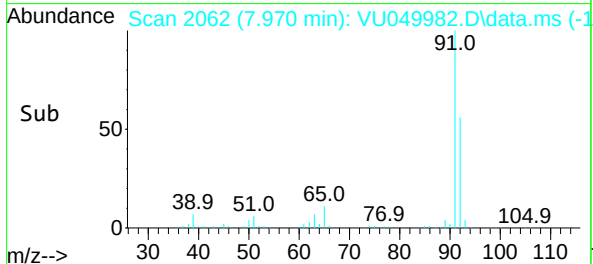
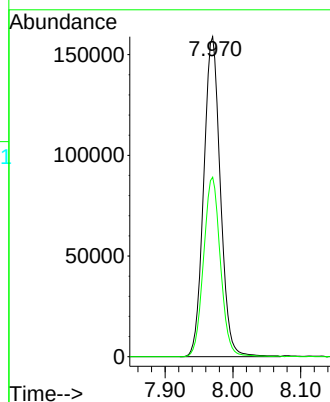
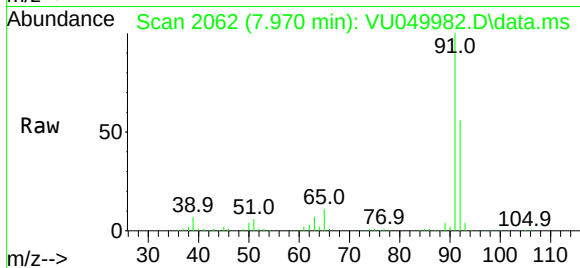
GBJ33

Tgt Ion: 91 Resp: 271342

Ion Ratio Lower Upper

91 100

92 56.1 40.5 75.3



#47

Tetrachloroethene

Concen: 8.927 ug/L

RT: 8.552 min Scan# 2243

Delta R.T. 0.000 min

Lab File: VU049982.D

Acq: 28 Jul 2022 13:02

Tgt Ion: 164 Resp: 47280

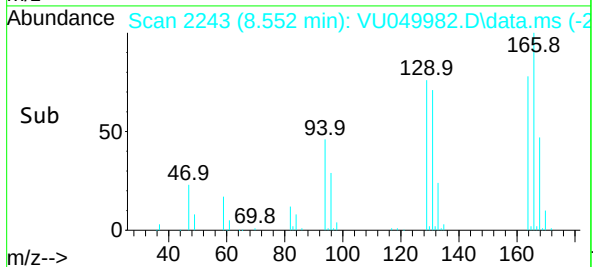
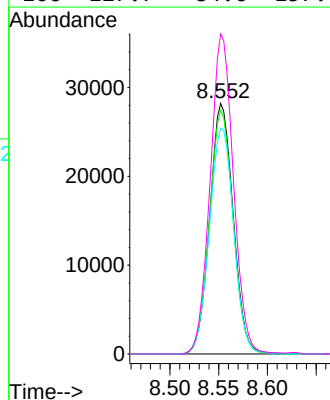
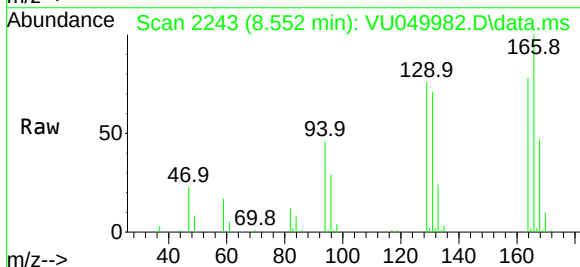
Ion Ratio Lower Upper

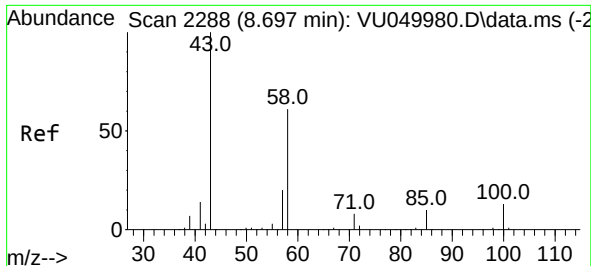
164 100

129 97.2 66.3 123.1

131 90.0 63.1 117.1

166 127.7 84.6 157.0

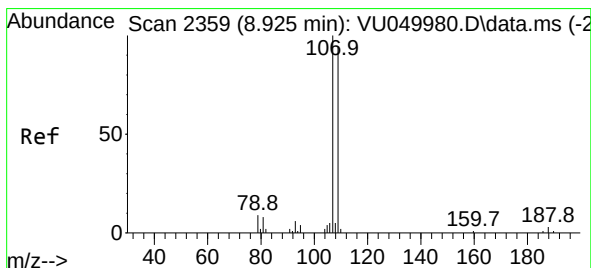
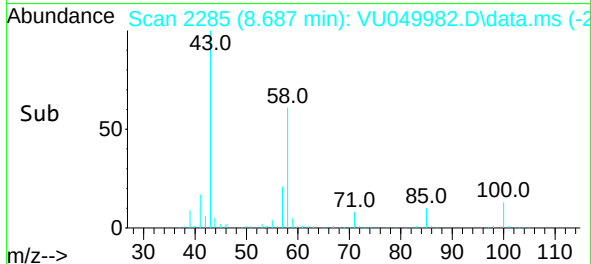
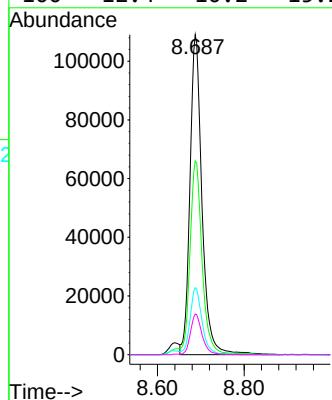
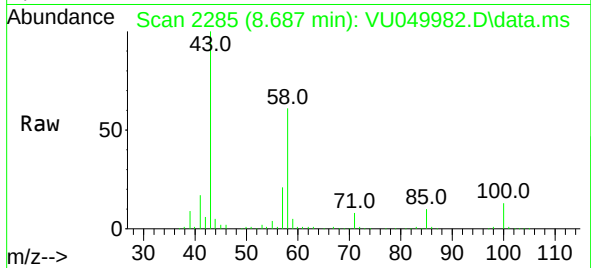




#48
2-Hexanone
Concen: 57.272 ug/L
RT: 8.687 min Scan# 210468
Delta R.T. -0.010 min
Lab File: VU049982.D
Acq: 28 Jul 2022 13:02

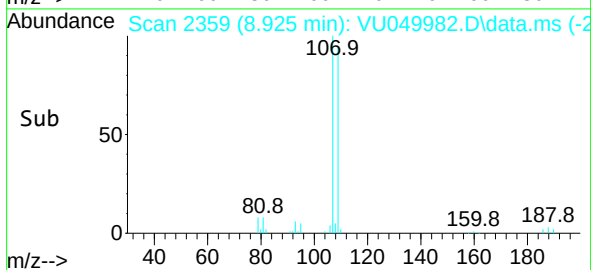
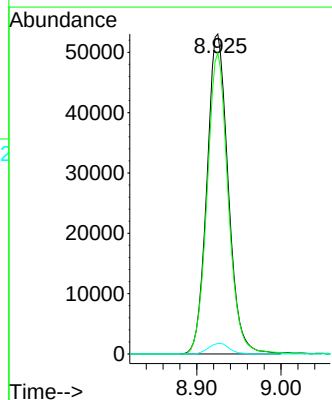
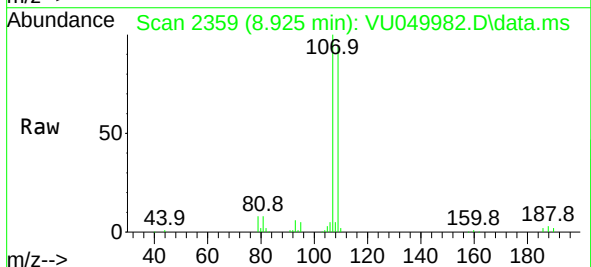
Instrument :
MSVOA_U
ClientSampleId :
GBJ33

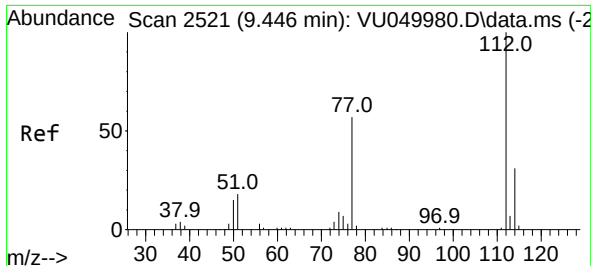
Tgt Ion:	43	Resp:	210468
Ion	Ratio	Lower	Upper
43	100		
58	61.7	49.4	74.0
57	20.6	17.0	25.4
100	12.4	10.2	15.2



#50
1,2-Dibromoethane
Concen: 16.809 ug/L
RT: 8.925 min Scan# 2359
Delta R.T. 0.000 min
Lab File: VU049982.D
Acq: 28 Jul 2022 13:02

Tgt Ion:	107	Resp:	93048
Ion	Ratio	Lower	Upper
107	100		
109	94.1	62.7	116.5
188	3.3	2.4	3.6

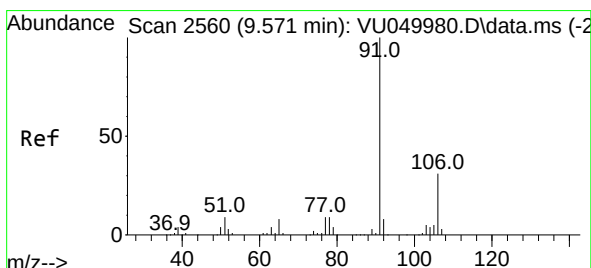
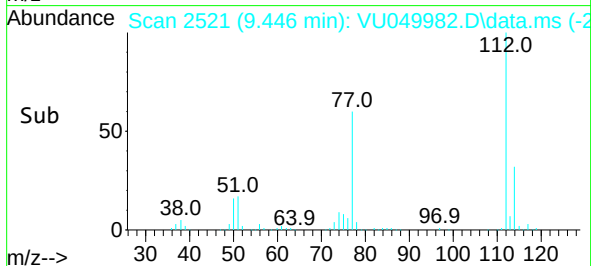
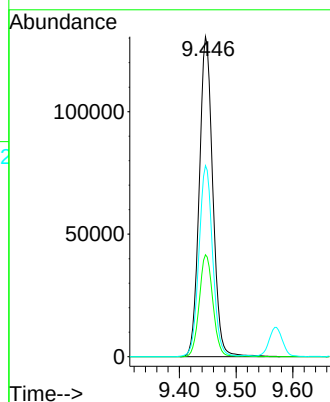
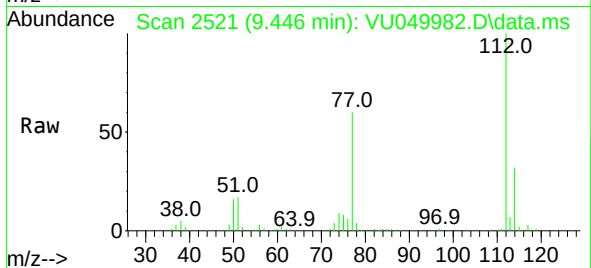




#51
Chlorobenzene
Concen: 11.069 ug/L
RT: 9.446 min Scan# 216302
Delta R.T. 0.000 min
Lab File: VU049982.D
Acq: 28 Jul 2022 13:02

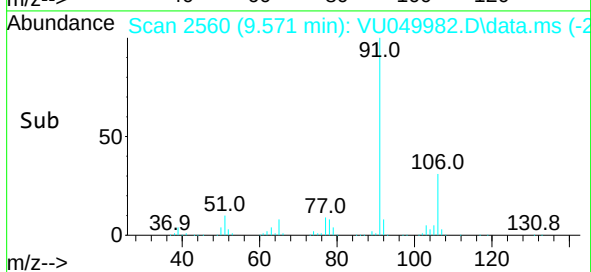
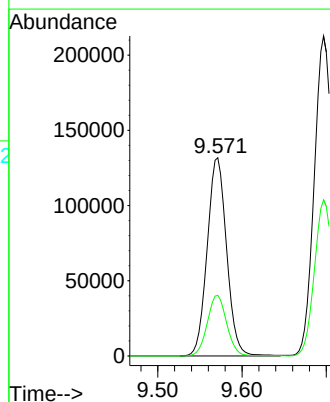
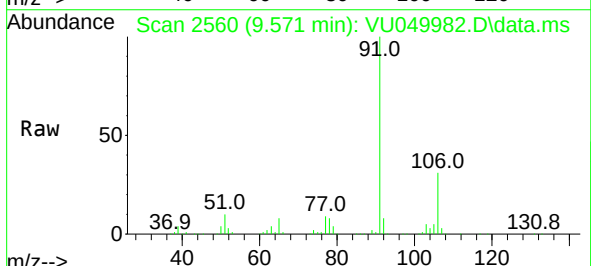
Instrument :
MSVOA_U
ClientSampleId :
GBJ33

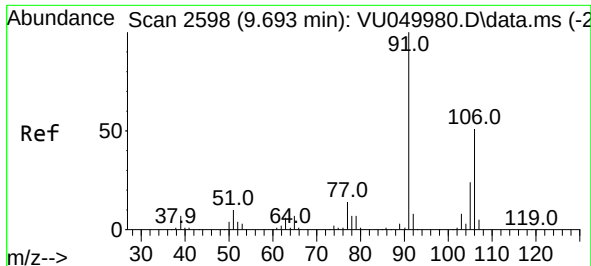
Tgt Ion:112 Resp: 216302
Ion Ratio Lower Upper
112 100
114 31.9 22.4 41.6
77 59.7 48.2 72.4



#52
Ethylbenzene
Concen: 7.012 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. 0.000 min
Lab File: VU049982.D
Acq: 28 Jul 2022 13:02

Tgt Ion: 91 Resp: 211446
Ion Ratio Lower Upper
91 100
106 30.6 21.6 40.0

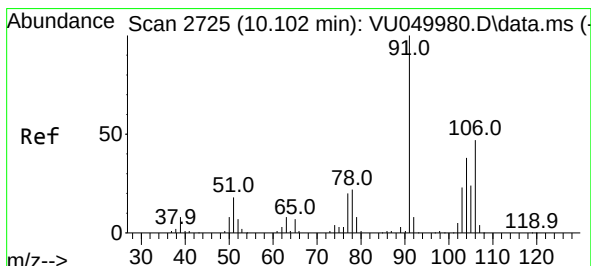
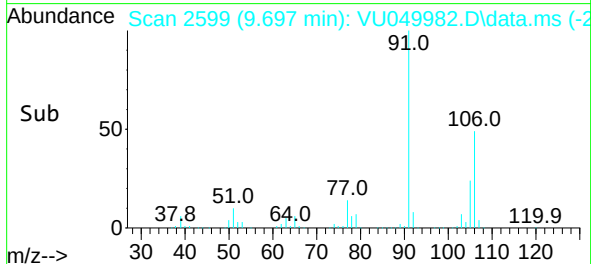
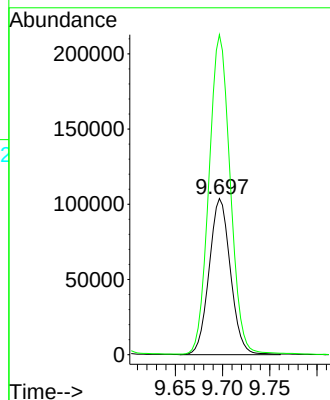
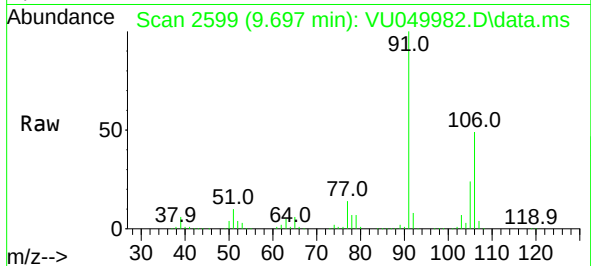




#53
m,p-Xylene
Concen: 14.183 ug/L
RT: 9.697 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU049982.D
Acq: 28 Jul 2022 13:02

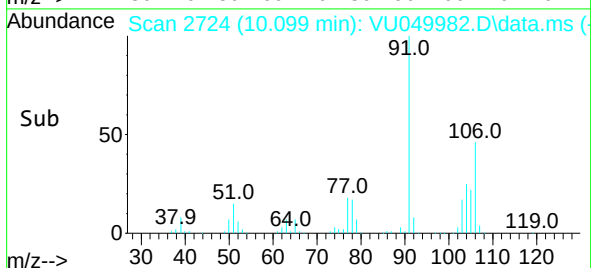
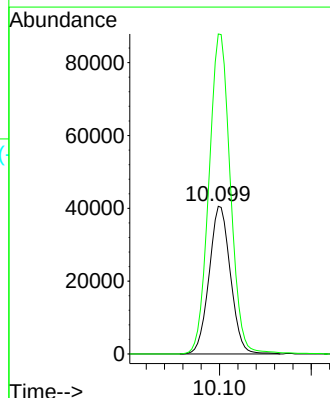
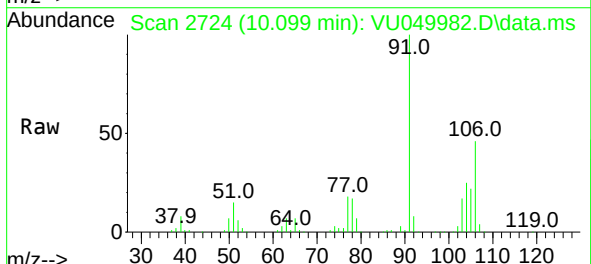
Instrument :
MSVOA_U
ClientSampleId :
GBJ33

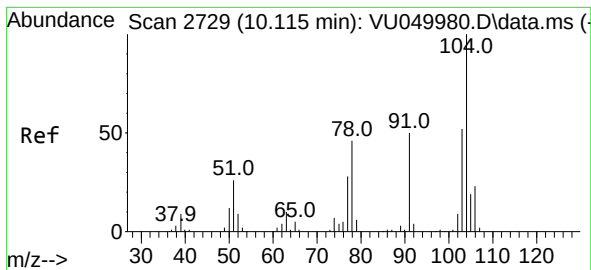
Tgt Ion:106 Resp: 162867
Ion Ratio Lower Upper
106 100
91 204.9 142.4 264.4



#54
o-Xylene
Concen: 5.877 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. -0.003 min
Lab File: VU049982.D
Acq: 28 Jul 2022 13:02

Tgt Ion:106 Resp: 65428
Ion Ratio Lower Upper
106 100
91 216.7 148.7 276.1





#55

Styrene

Concen: 5.891 ug/L

RT: 10.115 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU049982.D

Acq: 28 Jul 2022 13:02

Instrument :

MSVOA_U

ClientSampleId :

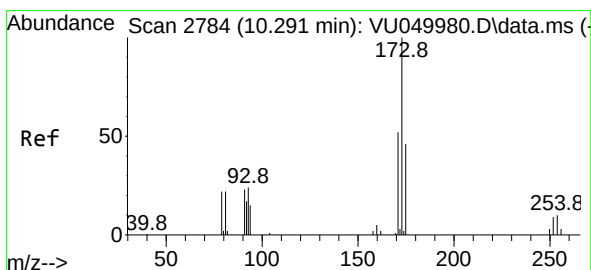
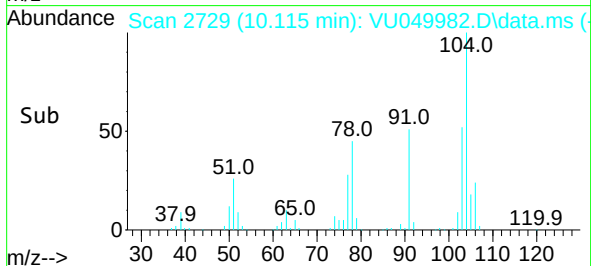
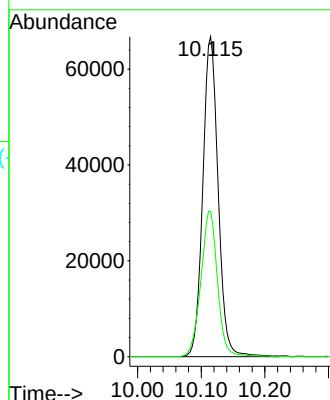
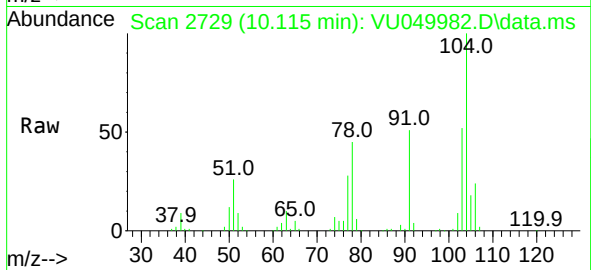
GBJ33

Tgt Ion:104 Resp: 111714

Ion Ratio Lower Upper

104 100

78 45.4 30.9 57.3



#59

Bromoform

Concen: 6.160 ug/L

RT: 10.291 min Scan# 2784

Delta R.T. 0.000 min

Lab File: VU049982.D

Acq: 28 Jul 2022 13:02

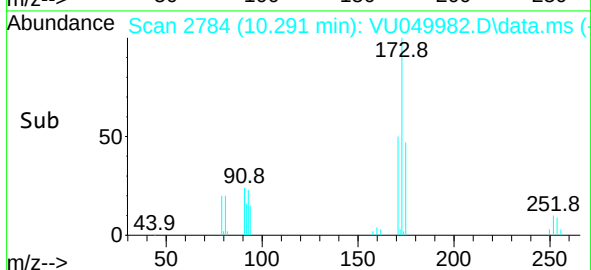
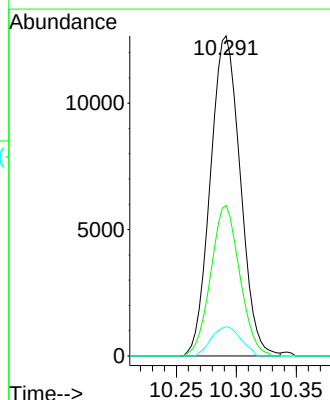
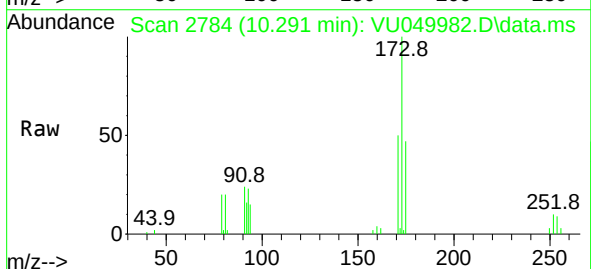
Tgt Ion:173 Resp: 21937

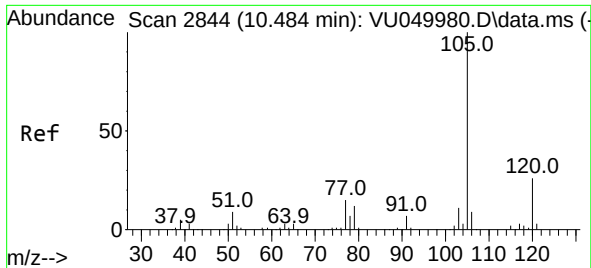
Ion Ratio Lower Upper

173 100

175 45.5 39.1 58.7

254 9.0 7.5 11.3

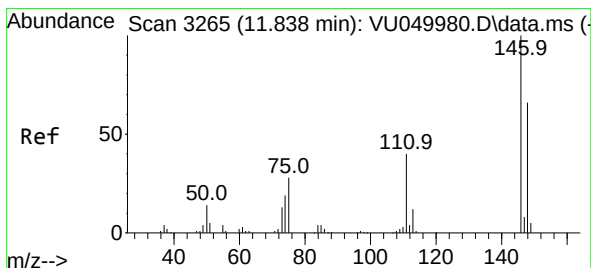
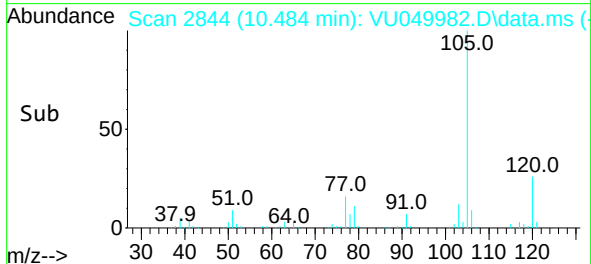
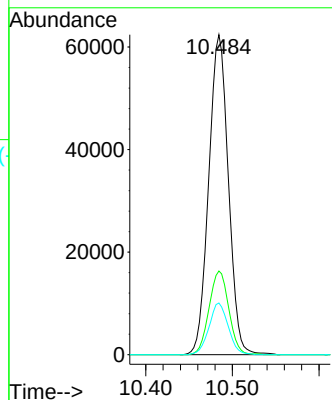
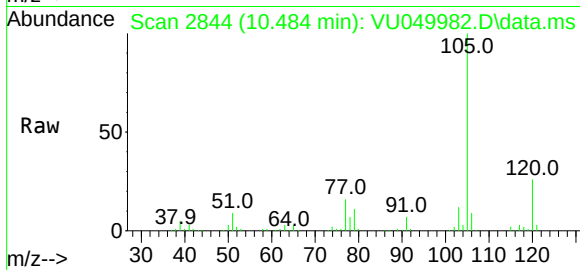




#60
Isopropylbenzene
Concen: 3.753 ug/L
RT: 10.484 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU049982.D
Acq: 28 Jul 2022 13:02

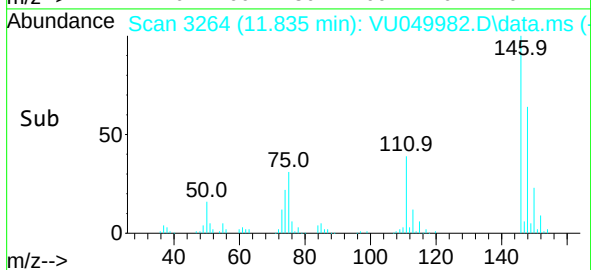
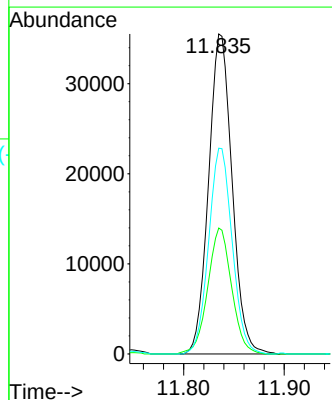
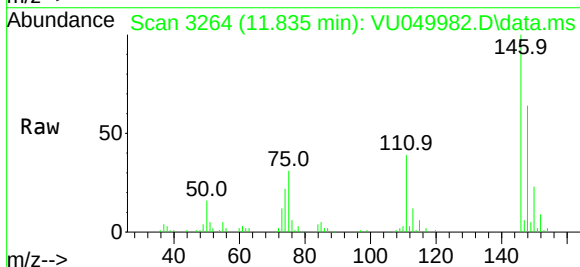
Instrument :
MSVOA_U
ClientSampleId :
GBJ33

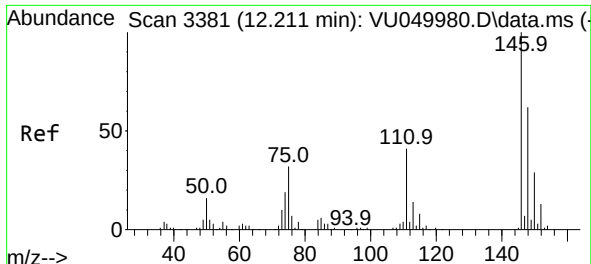
Tgt Ion:105 Resp: 98246
Ion Ratio Lower Upper
105 100
120 26.3 20.5 30.7
77 15.8 12.6 18.8



#65
1,4-Dichlorobenzene
Concen: 4.648 ug/L
RT: 11.835 min Scan# 3264
Delta R.T. -0.003 min
Lab File: VU049982.D
Acq: 28 Jul 2022 13:02

Tgt Ion:146 Resp: 57634
Ion Ratio Lower Upper
146 100
111 39.3 26.4 49.0
148 64.3 44.3 82.3





#67

1,2-Dichlorobenzene

Concen: 13.555 ug/L

RT: 12.211 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU049982.D

Acq: 28 Jul 2022 13:02

Instrument :

MSVOA_U

ClientSampleId :

GBJ33

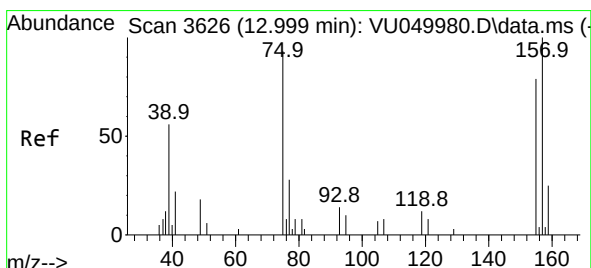
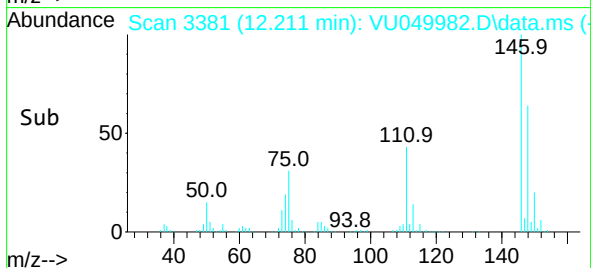
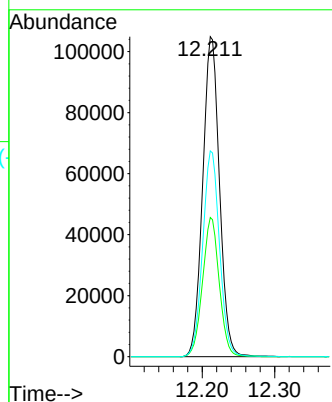
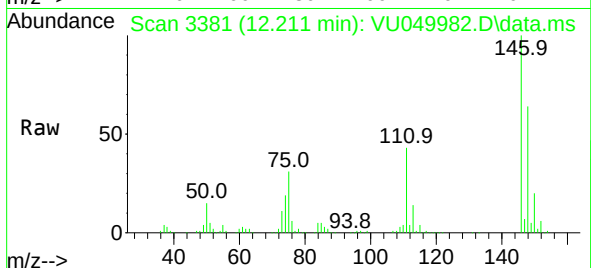
Tgt Ion:146 Resp: 168780

Ion Ratio Lower Upper

146 100

111 43.5 33.4 50.2

148 64.3 51.3 76.9



#68

1,2-Dibromo-3-chloropropane

Concen: 5.021 ug/L

RT: 12.996 min Scan# 3625

Delta R.T. -0.003 min

Lab File: VU049982.D

Acq: 28 Jul 2022 13:02

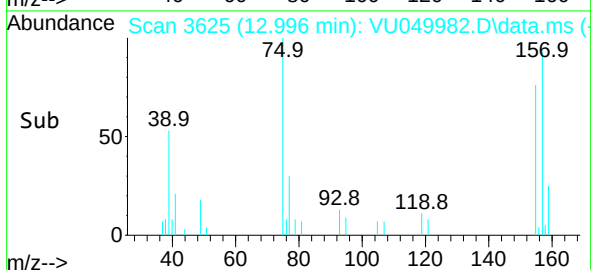
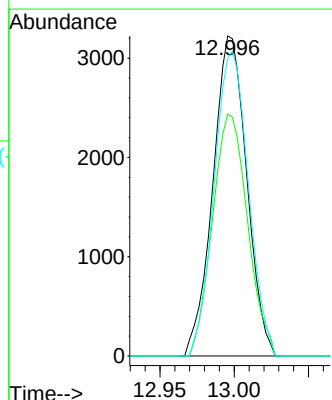
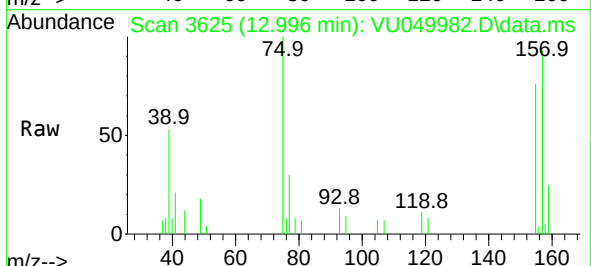
Tgt Ion: 75 Resp: 5103

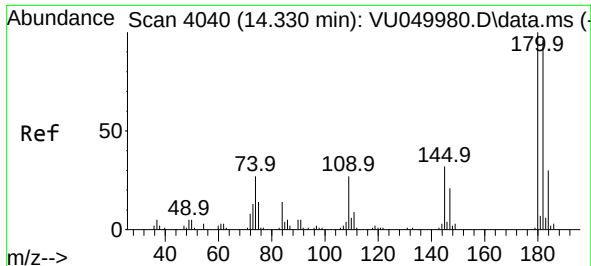
Ion Ratio Lower Upper

75 100

155 75.5 59.4 89.0

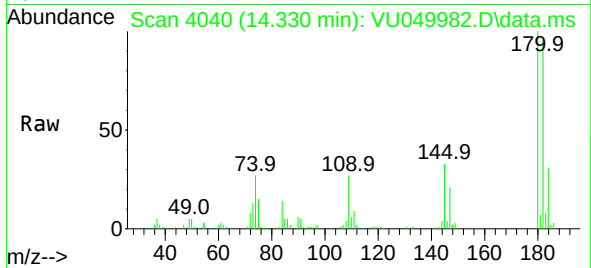
157 93.0 73.8 110.6





#72
 1,2,3-Trichlorobenzene
 Concen: 10.883 ug/L
 RT: 14.330 min Scan# 40
 Delta R.T. 0.000 min
 Lab File: VU049982.D
 Acq: 28 Jul 2022 13:02

Instrument :
 MSVOA_U
 ClientSampleId :
 GBJ33



Tgt Ion:180 Resp: 77860
 Ion Ratio Lower Upper
 180 100
 182 96.3 77.0 115.4
 145 32.9 26.3 39.5

