

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020223\
 Data File : VU052933.D
 Acq On : 02 Feb 2023 18:09
 Operator : JC/MD
 Sample : 01381-10DL 200X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 03 00:28:21 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM012623WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Feb 03 00:24:34 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	189	50.000	ug/L	# 0.00
28) Chlorobenzene-d5	9.411	117	633	50.000	ug/L	# 0.00
58) 1,4-Dichlorobenzene-d4	11.806	152	1202	50.000	ug/L	# 0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	0.000	65	0	0.000	ug/L	
Spiked Amount	50.000	Range	60 - 135	Recovery	=	0.000%#
7) Chloroethane-d5	0.000	69	0	0.000	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.000%#
11) 1,1-Dichloroethene-d2	2.559	63	187	69.114	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	138.220%#
21) 2-Butanone-d5	0.000	46	0	0.000	ug/L	
Spiked Amount	100.000	Range	40 - 130	Recovery	=	0.000%#
24) Chloroform-d	0.000	84	0	0.000	ug/L	
Spiked Amount	50.000	Range	70 - 125	Recovery	=	0.000%#
26) 1,2-Dichloroethane-d4	5.694	65	159	85.773	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	171.540%#
32) Benzene-d6	5.735	84	127	6.567	ug/L	0.01
Spiked Amount	50.000	Range	70 - 125	Recovery	=	13.140%#
36) 1,2-Dichloropropane-d6	6.530	67	666	117.421	ug/L	-0.16
Spiked Amount	50.000	Range	70 - 120	Recovery	=	234.840%#
41) Toluene-d8	7.896	98	521	29.585	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	59.180%#
43) trans-1,3-Dichloroprop...	0.000	79	0	0.000	ug/L	
Spiked Amount	50.000	Range	60 - 125	Recovery	=	0.000%#
47) 2-Hexanone-d5	0.000	63	0	0.000	ug/L	
Spiked Amount	100.000	Range	45 - 130	Recovery	=	0.000%#
56) 1,1,2,2-Tetrachloroeth...	10.758	84	42	5.012	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	10.020%#
66) 1,2-Dichlorobenzene-d4	12.192	152	749	32.091	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	64.180%#
Target Compounds						
					Qvalue	
3) Chloromethane	1.520	50	488	334.330	ug/L #	41
6) Bromomethane	1.864	94	103	101.142	ug/L #	1
13) Acetone	2.636	43	169	164.662	ug/L #	40
14) Carbon disulfide	2.793	76	73	17.287	ug/L #	75
16) Methylene chloride	3.041	84	5698	3425.952	ug/L	95
20) cis-1,2-Dichloroethene	4.658	96	654	405.404	ug/L #	53
25) Chloroform	5.083	83	172	57.820	ug/L #	17
33) Benzene	5.771	78	1983	92.029	ug/L	100
34) Trichloroethene	6.536	95	184358	33662.029	ug/L	96
35) Methylcyclohexane	6.539	83	2174	250.802	ug/L #	1
37) 1,2-Dichloropropane	6.533	63	583	110.052	ug/L #	85
42) Toluene	7.970	91	310	14.038	ug/L	97
48) 2-Hexanone	8.694	43	70	13.258	ug/L #	35
51) Chlorobenzene	9.443	112	463095	30480.251	ug/L	98
52) Ethylbenzene	9.571	91	74	3.136	ug/L #	43
60) 1,2,3-Trichloropropane	11.742	75	3899	167.225	ug/L #	49
64) 1,3-Dichlorobenzene	11.742	146	14544	371.333	ug/L	98
65) 1,4-Dichlorobenzene	11.832	146	81461	2009.035	ug/L	97
67) 1,2-Dichlorobenzene	12.208	146	422824	10672.992	ug/L	98

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Quant Title : VOC Analysis
QLast Update : Fri Feb 03 00:24:34 2023
Response via : Initial Calibration

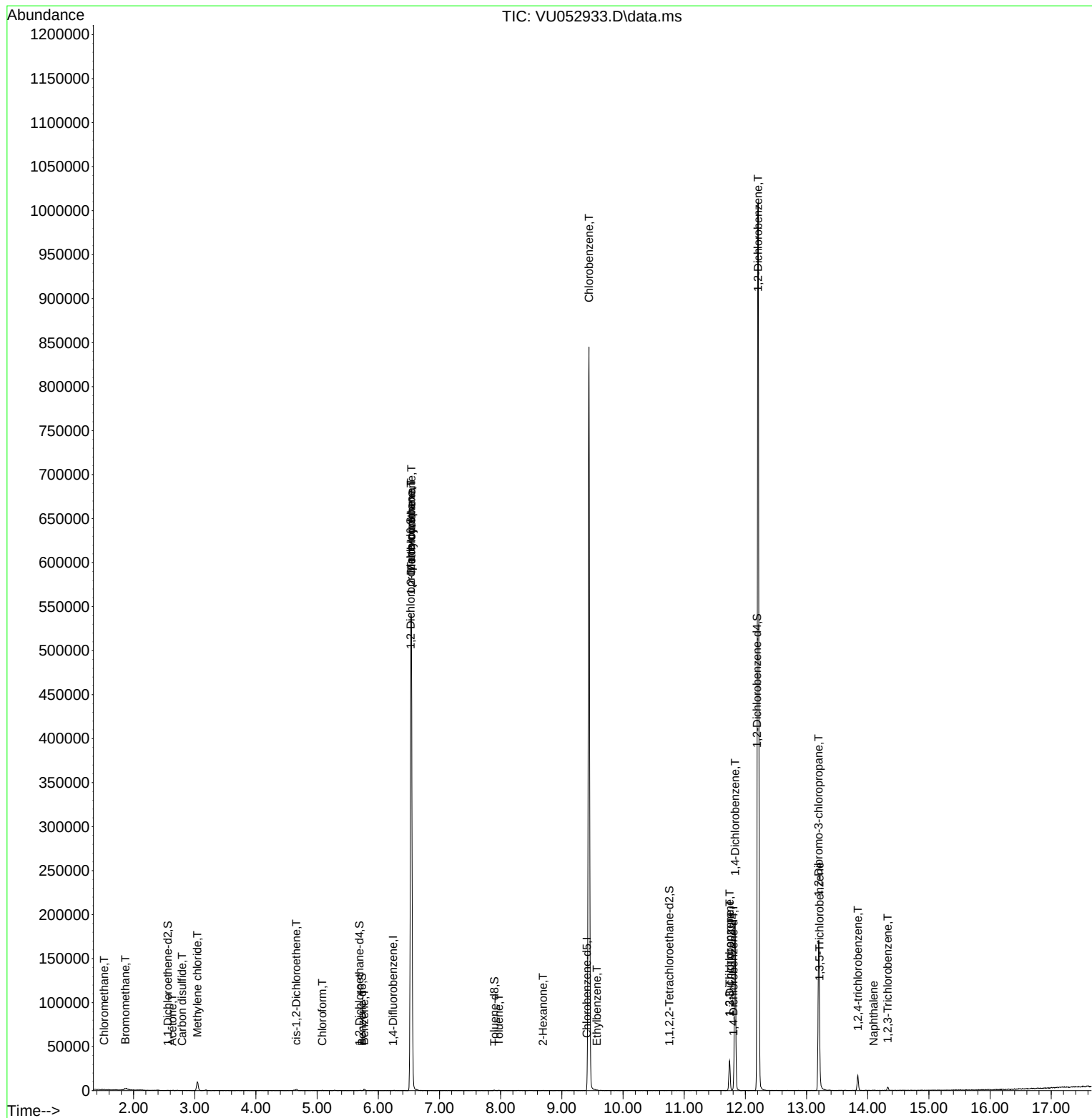
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2-Dibromo-3-chloropr...	13.198	75	4335	648.632	ug/L #	1
69) 1,3,5-Trichlorobenzene	13.214	180	41	1.414	ug/L #	18
70) 1,2,4-trichlorobenzene	13.838	180	5942	244.426	ug/L #	90
71) Naphthalene	14.095	128	307	4.394	ug/L #	83
72) 1,2,3-Trichlorobenzene	14.327	180	1698	66.092	ug/L #	80

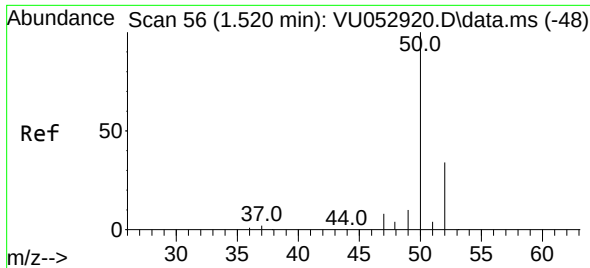
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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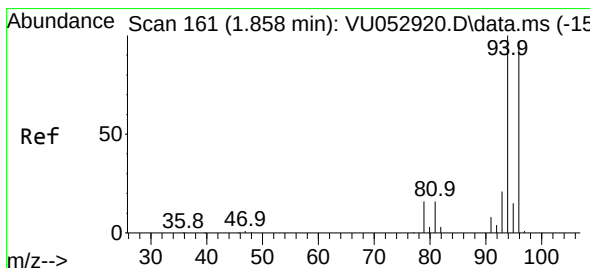
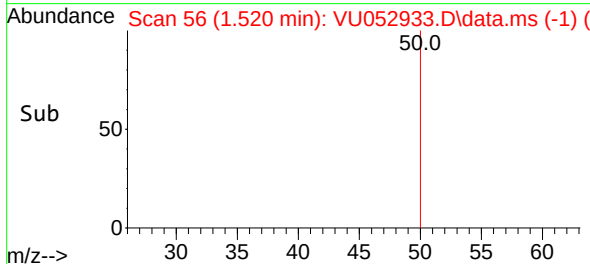
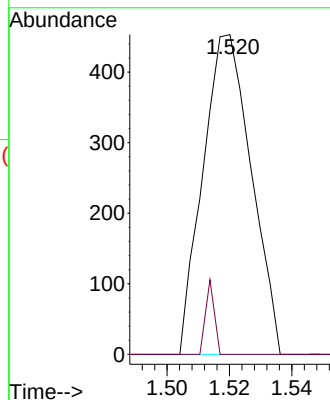
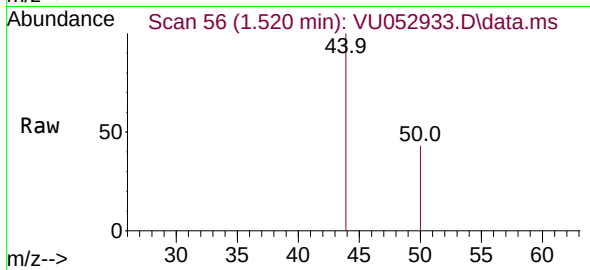




#3
Chloromethane
Concen: 334.330 ug/L
RT: 1.520 min Scan# 50
Delta R.T. -0.000 min
Lab File: VU052933.D
Acq: 02 Feb 2023 18:09

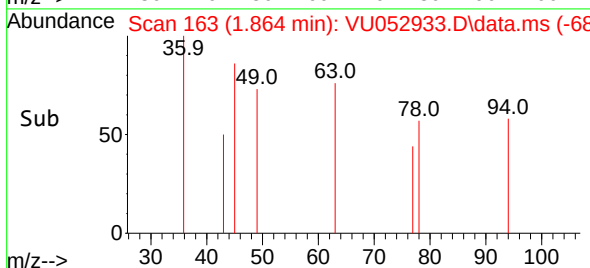
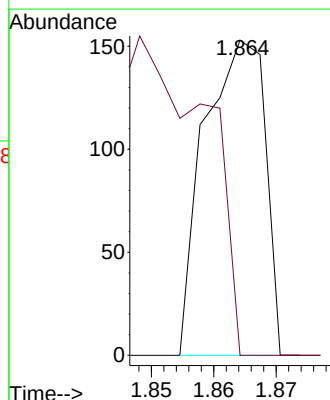
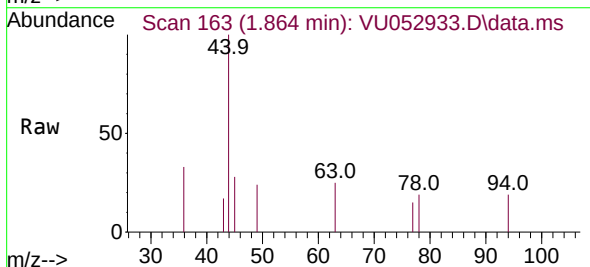
Instrument :
MSVOA_U
ClientSampleId :

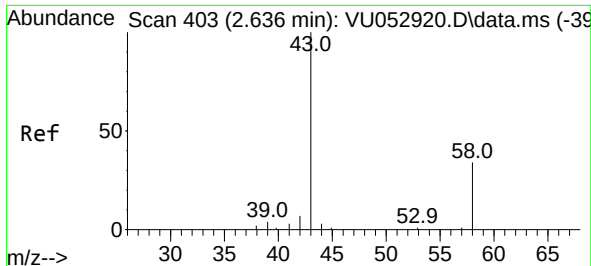
Tgt Ion: 50 Resp: 488
Ion Ratio Lower Upper
50 100
52 0.0 23.4 43.4#



#6
Bromomethane
Concen: 101.142 ug/L
RT: 1.864 min Scan# 163
Delta R.T. 0.006 min
Lab File: VU052933.D
Acq: 02 Feb 2023 18:09

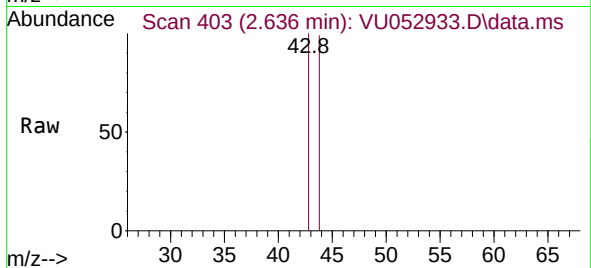
Tgt Ion: 94 Resp: 103
Ion Ratio Lower Upper
94 100
96 0.0 67.8 125.8#



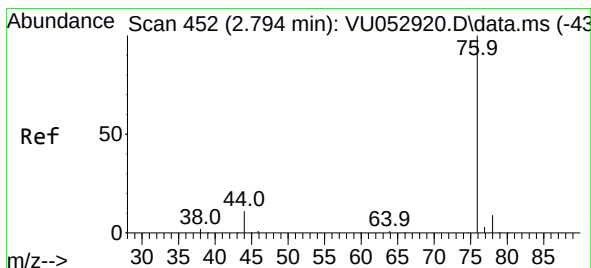
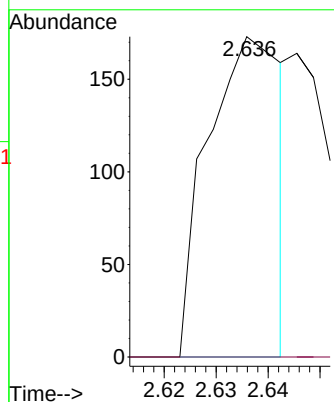


#13
Acetone
Concen: 164.662 ug/L
RT: 2.636 min Scan# 403
Delta R.T. -0.000 min
Lab File: VU052933.D
Acq: 02 Feb 2023 18:09

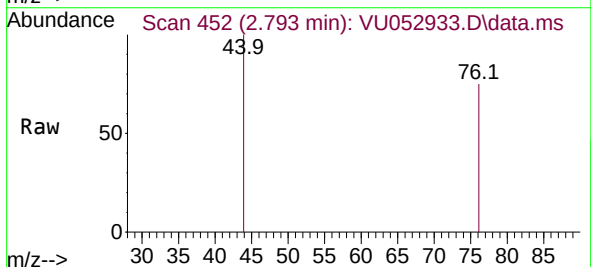
Instrument :
MSVOA_U
ClientSampleId :



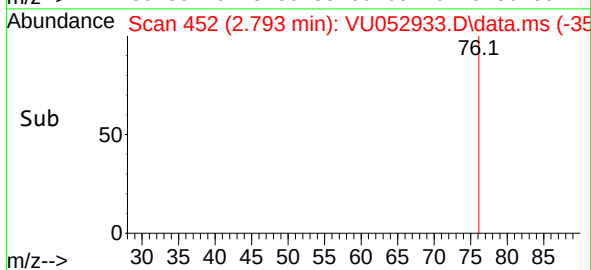
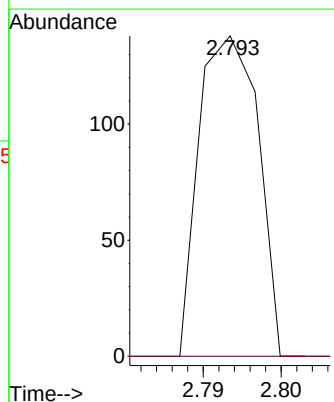
Tgt Ion: 43 Resp: 169
Ion Ratio Lower Upper
43 100
58 0.0 0.0 70.2

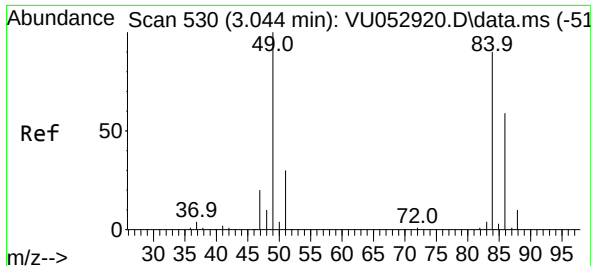


#14
Carbon disulfide
Concen: 17.287 ug/L
RT: 2.793 min Scan# 452
Delta R.T. -0.000 min
Lab File: VU052933.D
Acq: 02 Feb 2023 18:09



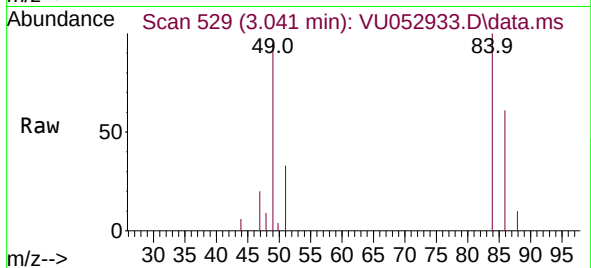
Tgt Ion: 76 Resp: 73
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#





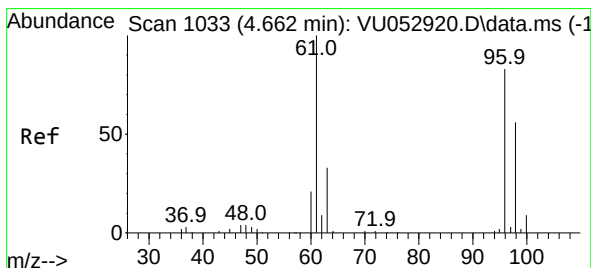
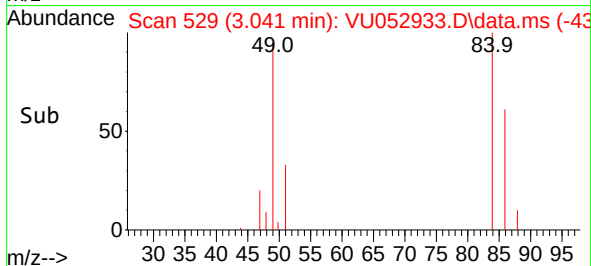
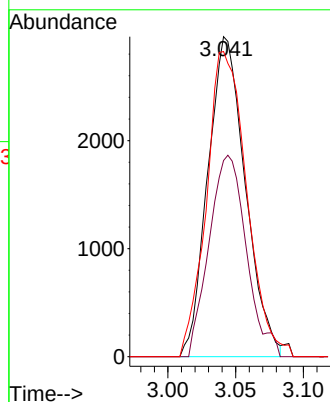
#16
Methylene chloride
Concen: 3425.952 ug/L
RT: 3.041 min Scan# 51
Delta R.T. -0.003 min
Lab File: VU052933.D
Acq: 02 Feb 2023 18:09

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 84 Resp: 5698

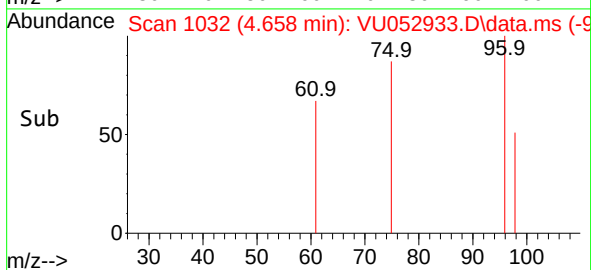
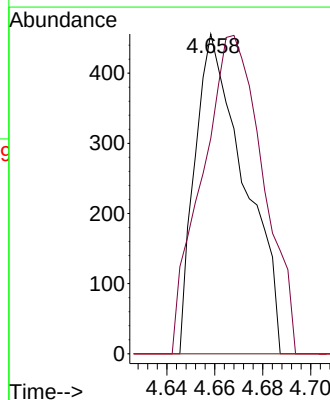
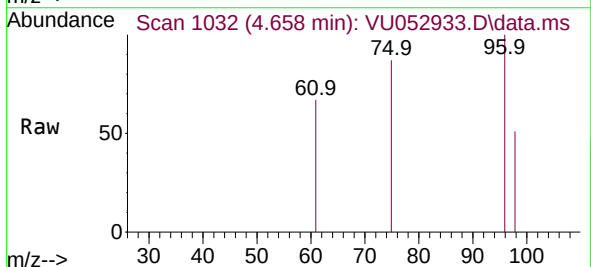
Ion	Ratio	Lower	Upper
84	100		
86	61.3	43.4	80.6
49	95.4	72.4	134.5

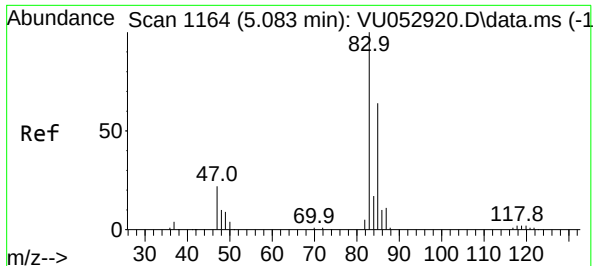


#20
cis-1,2-Dichloroethene
Concen: 405.404 ug/L
RT: 4.658 min Scan# 1032
Delta R.T. -0.003 min
Lab File: VU052933.D
Acq: 02 Feb 2023 18:09

Tgt Ion: 96 Resp: 654

Ion	Ratio	Lower	Upper
96	100		
61	67.3	84.1	156.1#
68	0.0	0.0	0.0





#25

Chloroform

Concen: 57.820 ug/L

RT: 5.083 min Scan# 1164

Delta R.T. -0.000 min

Lab File: VU052933.D

Acq: 02 Feb 2023 18:09

Instrument :

MSVOA_U

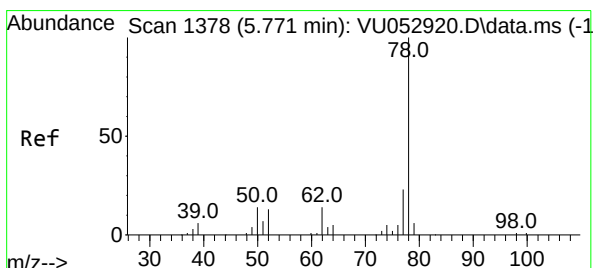
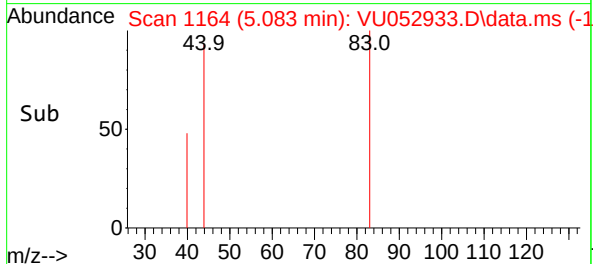
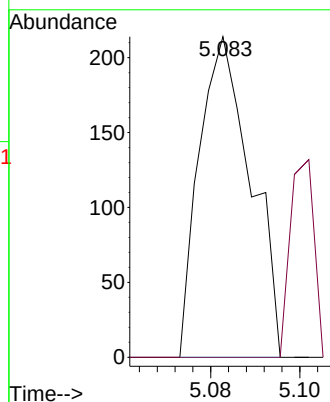
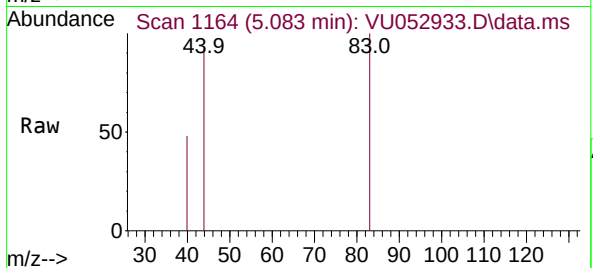
ClientSampleId :

Tgt Ion: 83 Resp: 172

Ion Ratio Lower Upper

83 100

85 0.0 45.8 85.0#



#33

Benzene

Concen: 92.029 ug/L

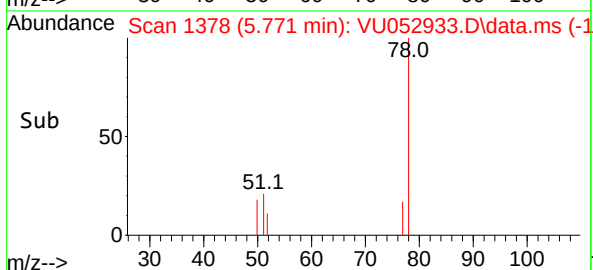
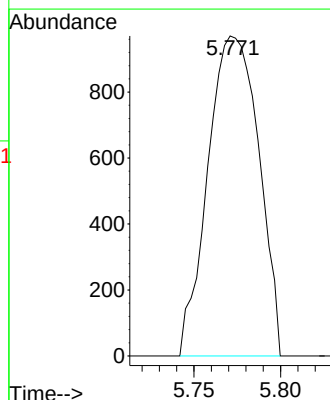
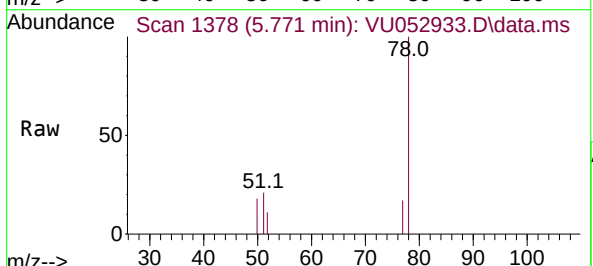
RT: 5.771 min Scan# 1378

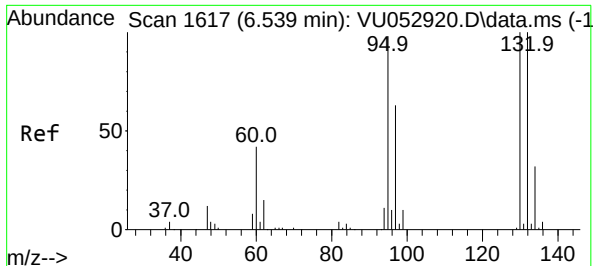
Delta R.T. -0.000 min

Lab File: VU052933.D

Acq: 02 Feb 2023 18:09

Tgt Ion: 78 Resp: 1983





#34

Trichloroethene

Concen: 33662.029 ug/L

RT: 6.536 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU052933.D

Acq: 02 Feb 2023 18:09

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 184358

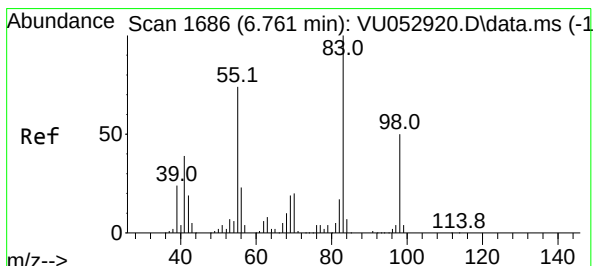
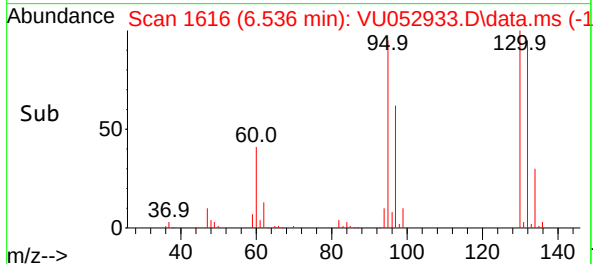
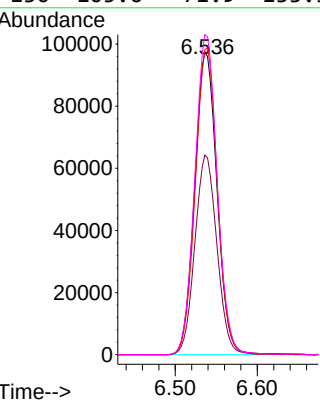
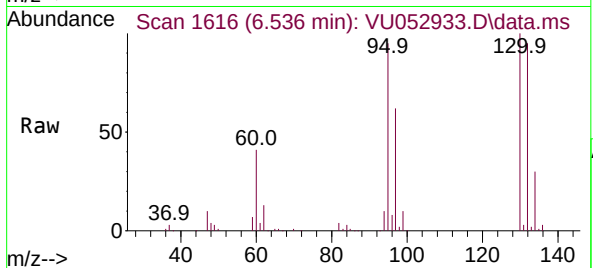
Ion Ratio Lower Upper

95 100

97 65.8 44.5 82.7

132 100.6 66.8 124.0

130 105.6 71.9 133.5



#35

Methylcyclohexane

Concen: 250.802 ug/L

RT: 6.539 min Scan# 1617

Delta R.T. -0.222 min

Lab File: VU052933.D

Acq: 02 Feb 2023 18:09

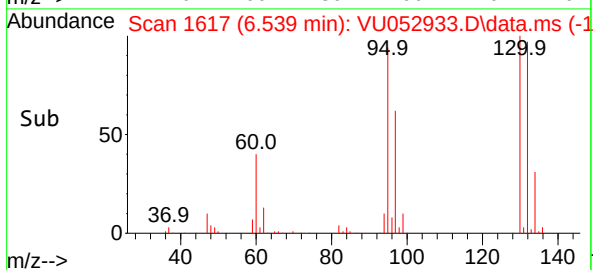
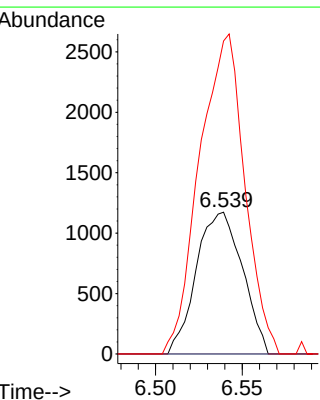
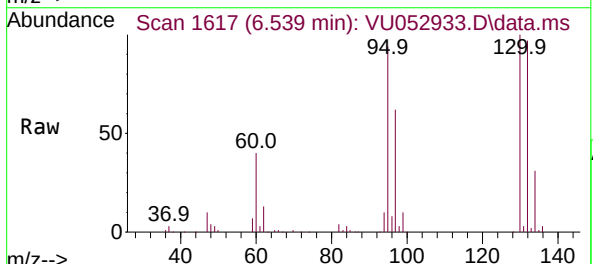
Tgt Ion: 83 Resp: 2174

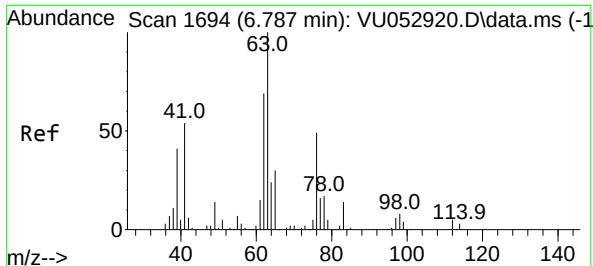
Ion Ratio Lower Upper

83 100

55 0.0 57.1 85.7#

98 221.0 38.9 58.3#





#37

1,2-Dichloropropane

Concen: 110.052 ug/L

RT: 6.533 min Scan# 1

Delta R.T. -0.254 min

Lab File: VU052933.D

Acq: 02 Feb 2023 18:09

Instrument :

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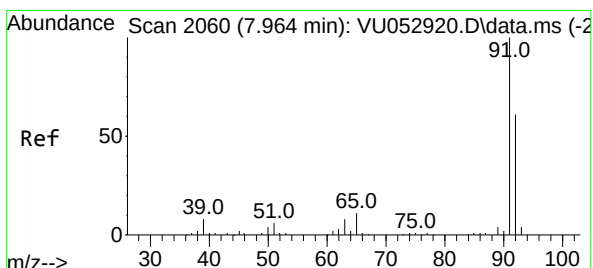
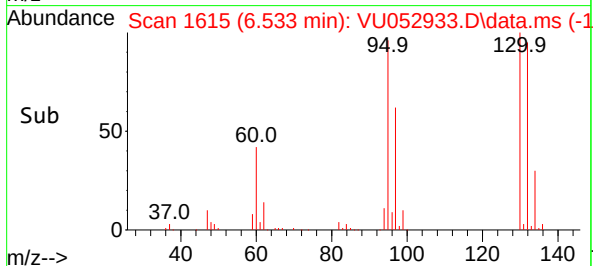
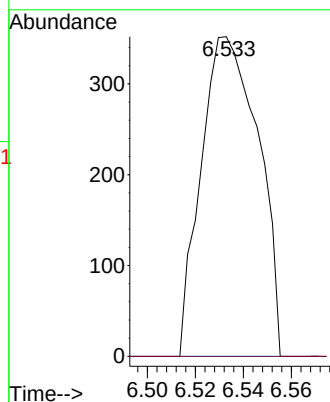
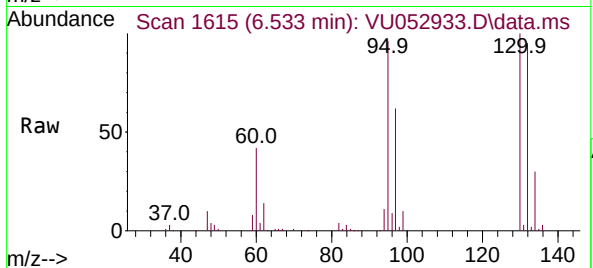
ClientSampleId :

Tgt Ion: 63 Resp: 583

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.8#



#42

Toluene

Concen: 14.038 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. 0.006 min

Lab File: VU052933.D

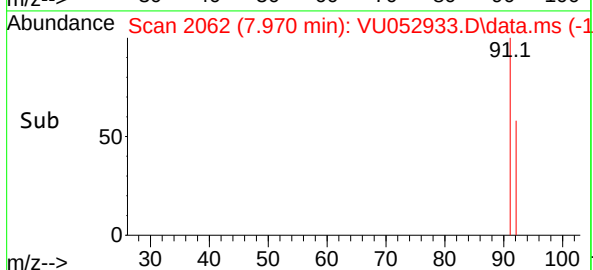
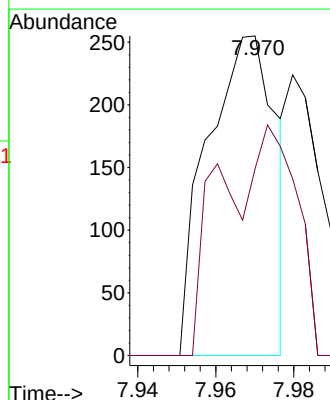
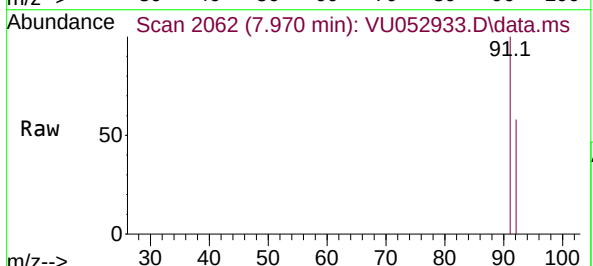
Acq: 02 Feb 2023 18:09

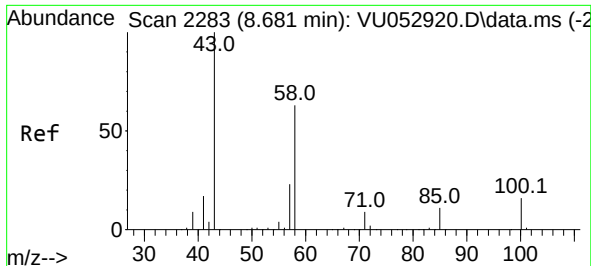
Tgt Ion: 91 Resp: 310

Ion Ratio Lower Upper

91 100

92 58.4 42.6 79.0





#48

2-Hexanone

Concen: 13.258 ug/L

RT: 8.694 min Scan# 21

Delta R.T. 0.013 min

Lab File: VU052933.D

Acq: 02 Feb 2023 18:09

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 43 Resp: 70

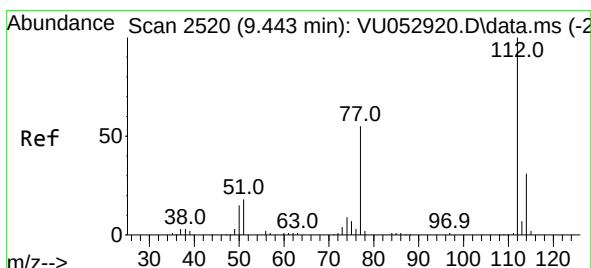
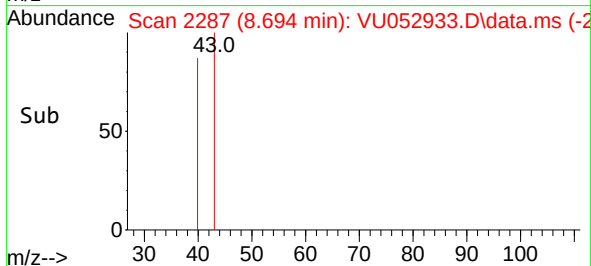
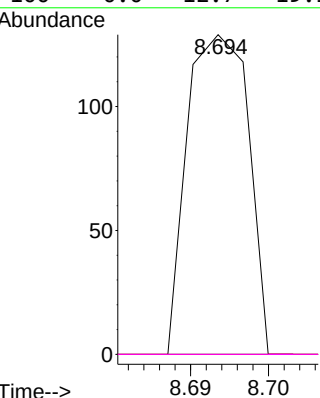
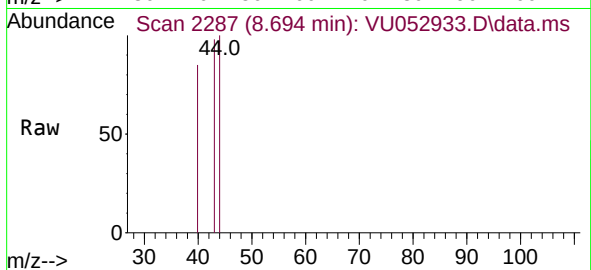
Ion Ratio Lower Upper

43 100

58 0.0 48.0 72.0#

57 0.0 16.8 25.2#

100 0.0 12.7 19.1#



#51

Chlorobenzene

Concen: 30480.251 ug/L

RT: 9.443 min Scan# 2520

Delta R.T. -0.000 min

Lab File: VU052933.D

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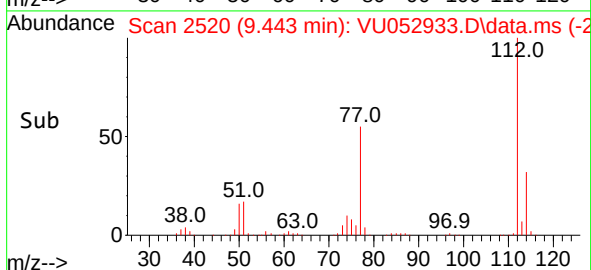
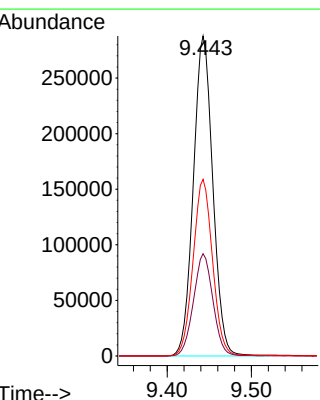
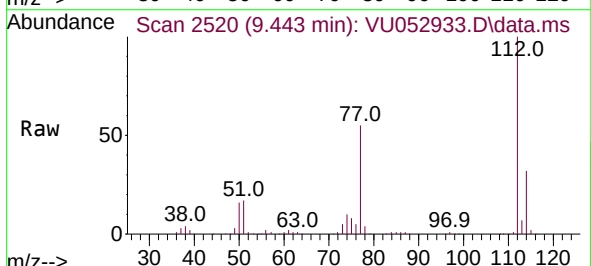
Tgt Ion: 112 Resp: 463095

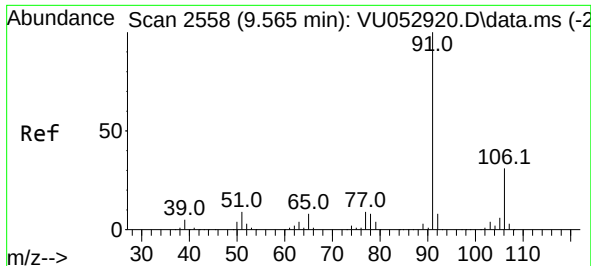
Ion Ratio Lower Upper

112 100

114 32.0 22.8 42.4

77 55.2 45.9 68.9

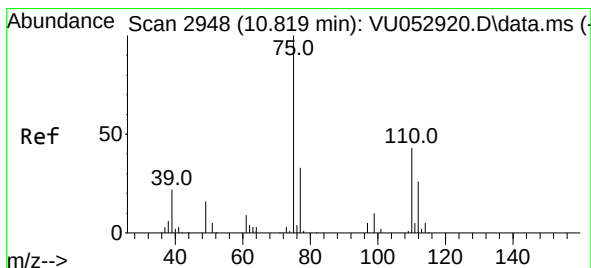
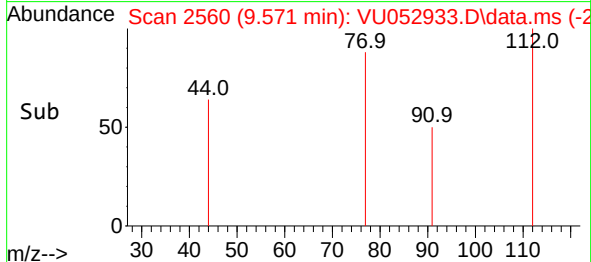
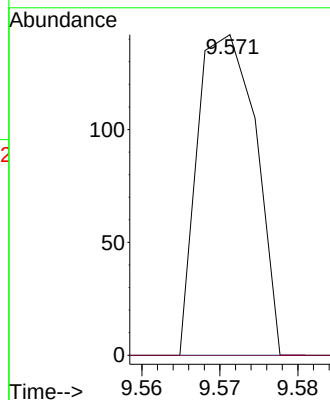
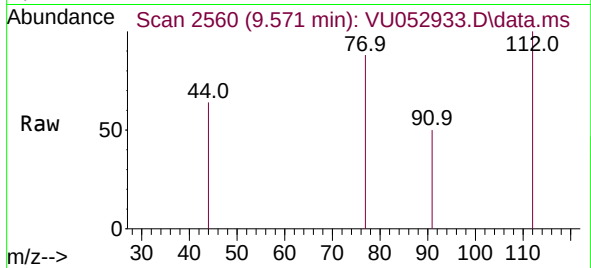




#52
Ethylbenzene
Concen: 3.136 ug/L
RT: 9.571 min Scan# 21
Delta R.T. 0.006 min
Lab File: VU052933.D
Acq: 02 Feb 2023 18:09

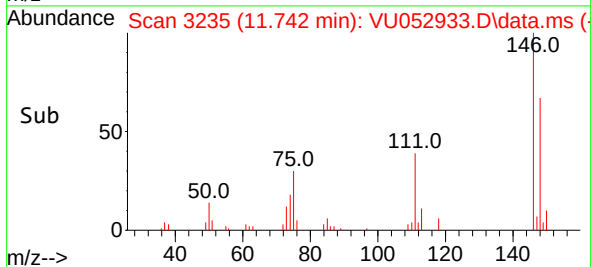
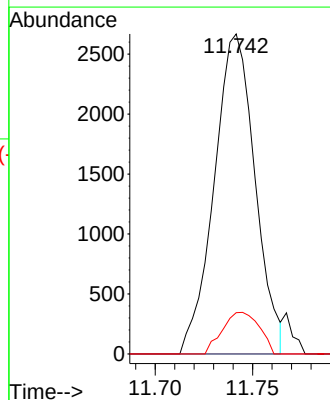
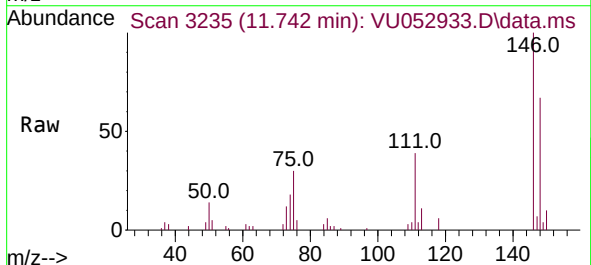
Instrument :
MSVOA_U
ClientSampleId :

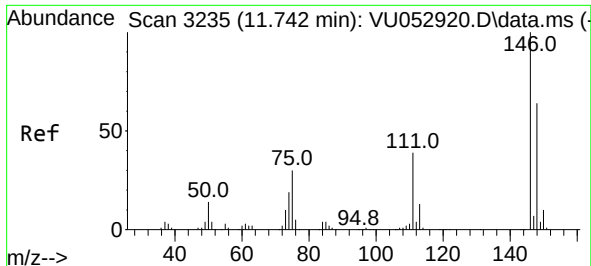
Tgt Ion: 91 Resp: 74
Ion Ratio Lower Upper
91 100
106 0.0 22.0 40.8#



#60
1,2,3-Trichloropropane
Concen: 167.225 ug/L
RT: 11.742 min Scan# 3235
Delta R.T. 0.923 min
Lab File: VU052933.D
Acq: 02 Feb 2023 18:09

Tgt Ion: 75 Resp: 3899
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.8#
110 11.7 32.4 48.6#

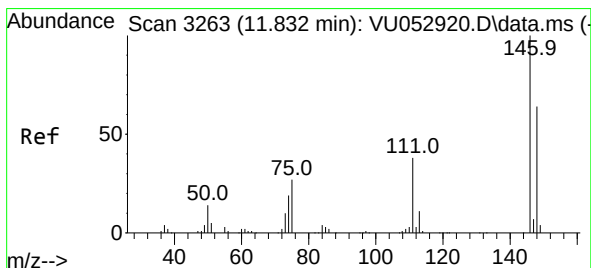
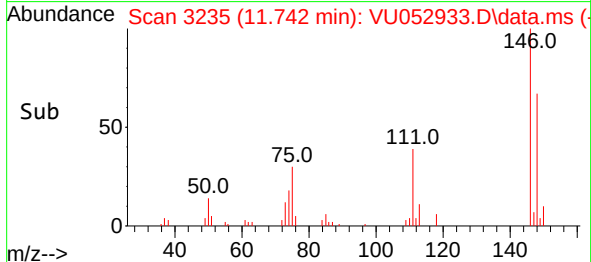
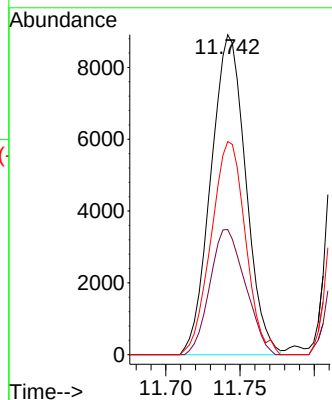
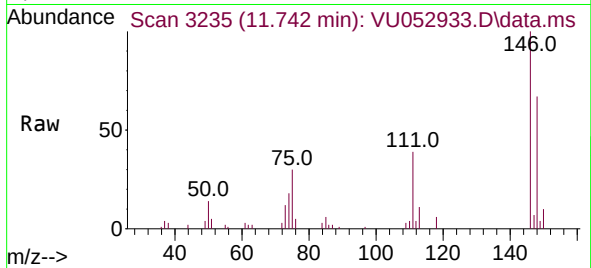




#64
 1,3-Dichlorobenzene
 Concen: 371.333 ug/L
 RT: 11.742 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VU052933.D
 Acq: 02 Feb 2023 18:09

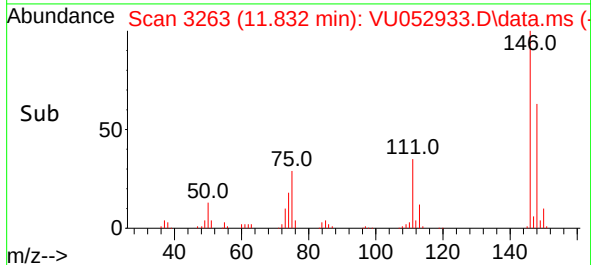
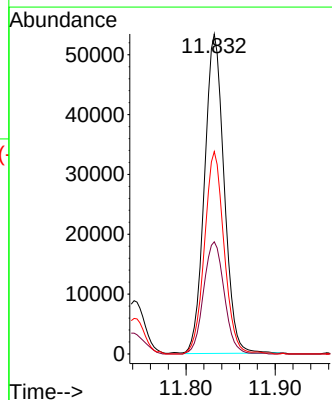
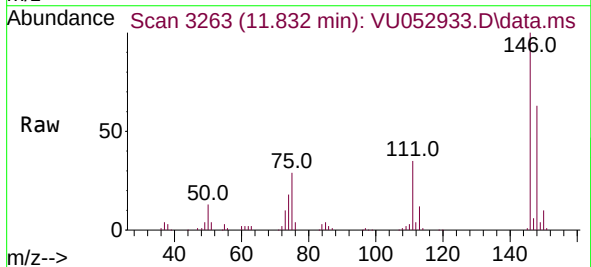
Instrument :
 MSVOA_U
 ClientSampleId :

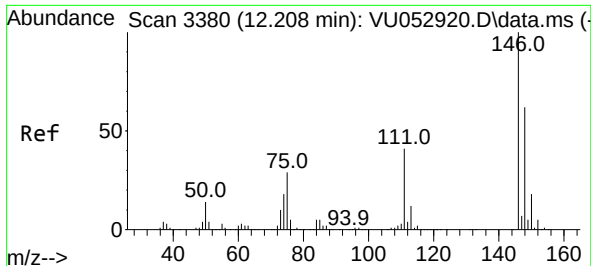
Tgt Ion:146 Resp: 14544
 Ion Ratio Lower Upper
 146 100
 111 39.1 27.8 51.6
 148 66.6 45.5 84.5



#65
 1,4-Dichlorobenzene
 Concen: 2009.035 ug/L
 RT: 11.832 min Scan# 3263
 Delta R.T. -0.000 min
 Lab File: VU052933.D
 Acq: 02 Feb 2023 18:09

Tgt Ion:146 Resp: 81461
 Ion Ratio Lower Upper
 146 100
 111 35.1 26.7 49.7
 148 63.3 45.6 84.6





#67

1,2-Dichlorobenzene

Concen: 10672.992 ug/L

RT: 12.208 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU052933.D

Acq: 02 Feb 2023 18:09

Instrument :

MSVOA_U

ClientSampleId :

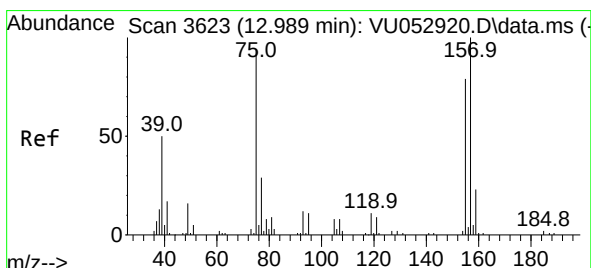
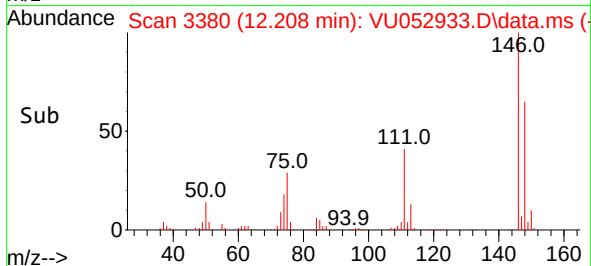
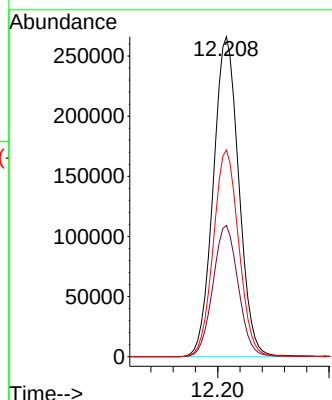
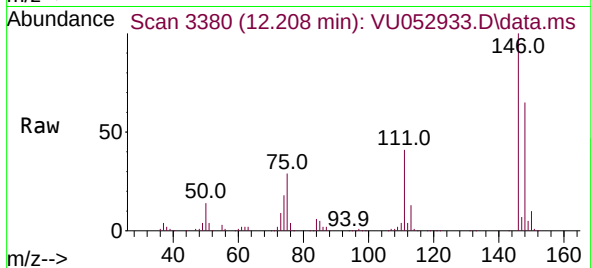
Tgt Ion:146 Resp: 422824

Ion Ratio Lower Upper

146 100

111 41.0 33.2 49.8

148 64.6 50.2 75.4



#68

1,2-Dibromo-3-chloropropane

Concen: 648.632 ug/L

RT: 13.198 min Scan# 3688

Delta R.T. 0.209 min

Lab File: VU052933.D

Acq: 02 Feb 2023 18:09

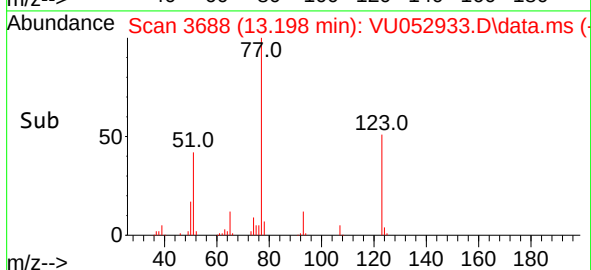
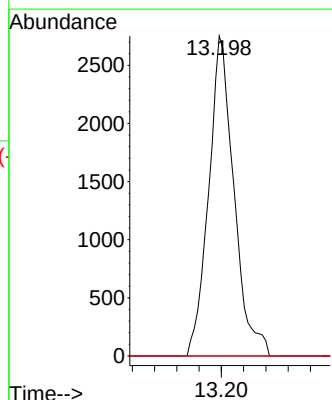
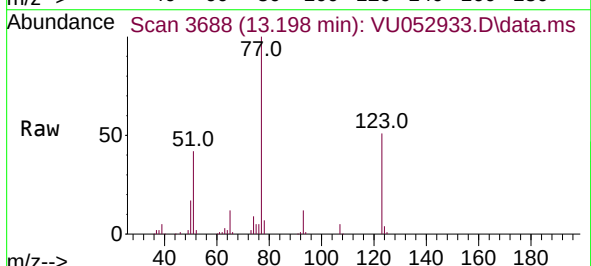
Tgt Ion: 75 Resp: 4335

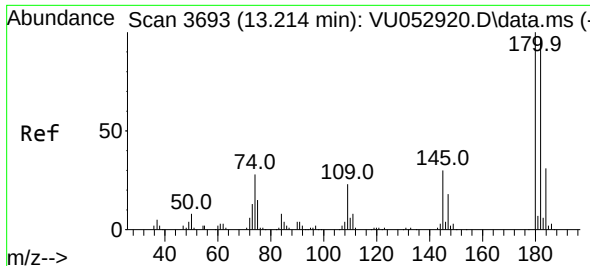
Ion Ratio Lower Upper

75 100

155 0.0 69.2 103.8#

157 0.0 91.2 136.8#





#69

1,3,5-Trichlorobenzene

Concen: 1.414 ug/L

RT: 13.214 min Scan# 3693

Delta R.T. -0.000 min

Lab File: VU052933.D

Acq: 02 Feb 2023 18:09

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:180 Resp: 41

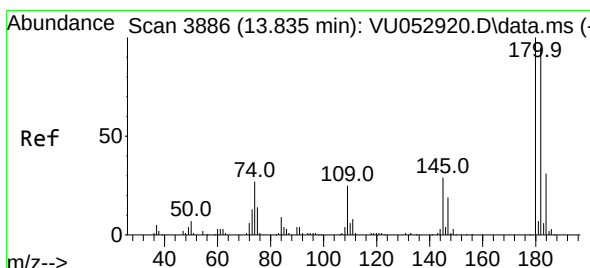
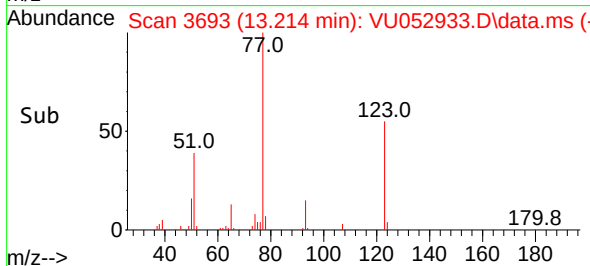
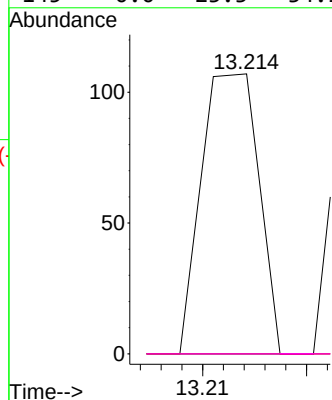
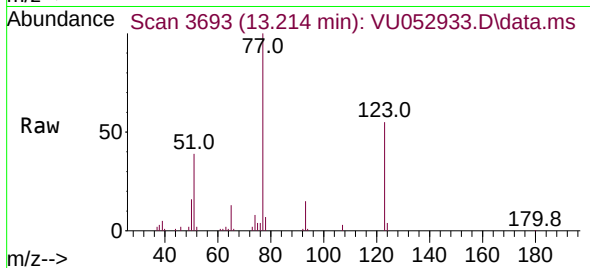
Ion Ratio Lower Upper

180 100

182 0.0 77.0 115.6#

184 0.0 24.4 36.6#

145 0.0 23.3 34.9#



#70

1,2,4-trichlorobenzene

Concen: 244.426 ug/L

RT: 13.838 min Scan# 3887

Delta R.T. 0.003 min

Lab File: VU052933.D

Acq: 02 Feb 2023 18:09

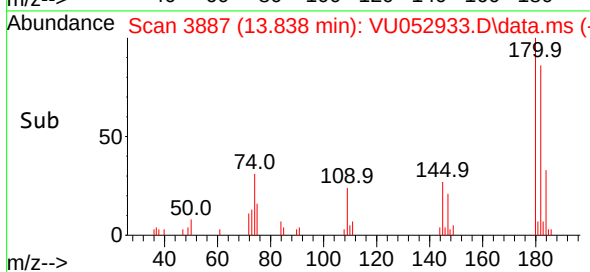
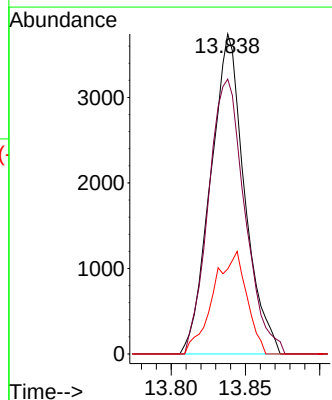
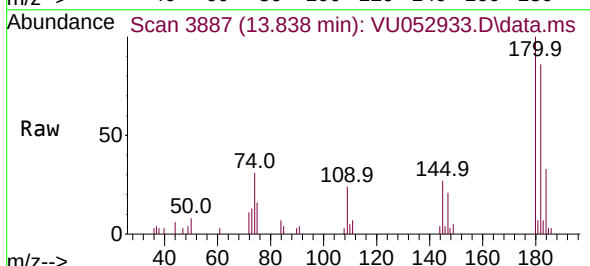
Tgt Ion:180 Resp: 5942

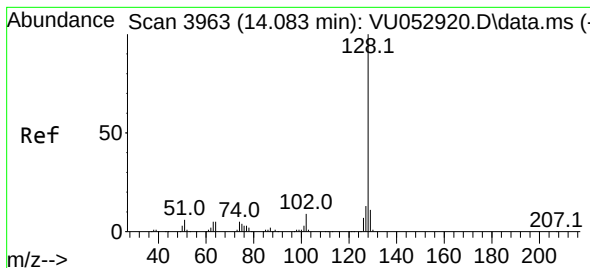
Ion Ratio Lower Upper

180 100

182 92.2 78.2 117.2

145 15.4 23.4 35.2#





#71

Naphthalene

Concen: 4.394 ug/L

RT: 14.095 min Scan# 3967

Delta R.T. 0.013 min

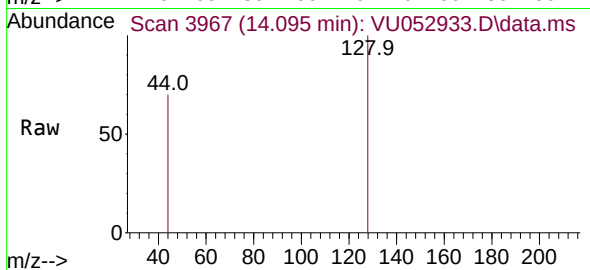
Lab File: VU052933.D

Acq: 02 Feb 2023 18:09

Instrument :

MSVOA_U

ClientSampleId :



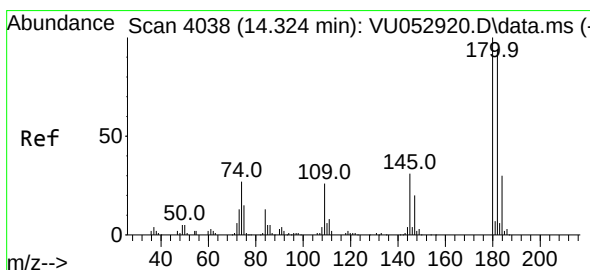
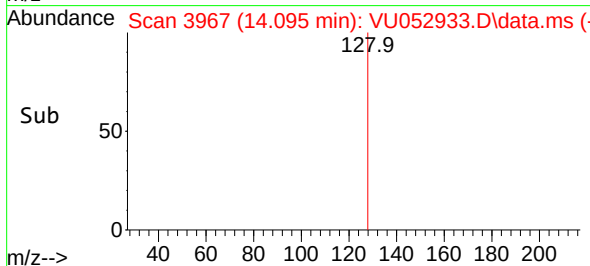
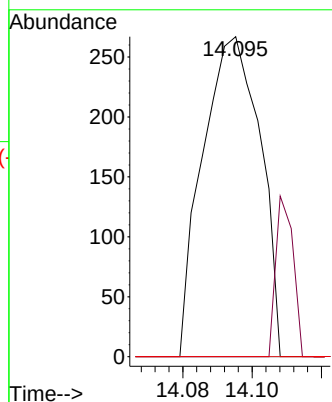
Tgt Ion:128 Resp: 307

Ion Ratio Lower Upper

128 100

127 15.3 10.3 15.5

129 0.0 8.8 13.2#



#72

1,2,3-Trichlorobenzene

Concen: 66.092 ug/L

RT: 14.327 min Scan# 4039

Delta R.T. 0.003 min

Lab File: VU052933.D

Acq: 02 Feb 2023 18:09

Tgt Ion:180 Resp: 1698

Ion Ratio Lower Upper

180 100

182 74.9 77.5 116.3#

145 23.9 24.2 36.4#

