

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U040922\
 Data File : U047888.D
 Acq On : 08 Apr 2022 23:33
 Operator : SY/MD
 Sample : N2343-18
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0J71

Quant Time: Apr 09 02:09:20 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM032422WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 09 01:58:44 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	358026	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.439	117	391296	50.000	ug/L	0.02
58) 1,4-Dichlorobenzene-d4	11.841	152	269632	50.000	ug/L	# 0.03
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	118361	45.589	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	91.180%		
7) Chloroethane-d5	1.916	69	101850	49.752	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	99.500%		
11) 1,1-Dichloroethene-d2	2.568	63	166546	35.061	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	70.120%		
21) 2-Butanone-d5	4.620	46	193681	86.913	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	86.910%		
24) Chloroform-d	5.070	84	343991	72.411	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	144.820%#		
26) 1,2-Dichloroethane-d4	5.713	65	137446	47.174	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	94.340%		
32) Benzene-d6	5.739	84	449173	45.619	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	91.240%		
36) 1,2-Dichloropropane-d6	6.694	67	138563	45.824	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	91.640%		
41) Toluene-d8	7.899	98	400500	41.749	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	83.500%		
43) trans-1,3-Dichloroprop...	8.179	79	61814	40.350	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	80.700%		
47) 2-Hexanone-d5	8.636	63	148104	83.667	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	83.670%		
56) 1,1,2,2-Tetrachloroeth...	10.758	84	232833	44.867	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	89.740%		
66) 1,2-Dichlorobenzene-d4	12.224	152	225621	47.034	ug/L	0.03
Spiked Amount 50.000	Range 80 - 120		Recovery =	94.060%		
Target Compounds						Qvalue
10) 1,1,2-Trichloro-1,2,2-...	2.568	101	1478	0.560	ug/L #	21
12) 1,1-Dichloroethene	2.581	96	34663	14.114	ug/L #	49
13) Acetone	2.623	43	10488	5.057	ug/L	96
16) Methylene chloride	3.051	84	5650	2.005	ug/L	98
22) 2-Butanone	4.713	43	3422	1.281	ug/L	83
25) Chloroform	5.089	83	3339263	678.912	ug/L	99
27) 1,2-Dichloroethane	5.806	62	1531907	403.131	ug/L #	75
29) Cyclohexane	5.395	56	18524	4.665	ug/L	98
30) 1,1,1-Trichloroethane	5.321	97	2840	0.640	ug/L #	89
31) Carbon tetrachloride	5.526	117	2158	0.539	ug/L	94
34) Trichloroethene	6.546	95	20209	6.806	ug/L	97
35) Methylcyclohexane	6.764	83	10545	2.334	ug/L #	77
38) Bromodichloromethane	7.108	83	19740	4.993	ug/L	97
39) cis-1,3-Dichloropropene	7.565	75	3909	0.875	ug/L #	56
42) Toluene	7.973	91	22709	1.827	ug/L	98
46) Tetrachloroethene	8.555	164	9594	3.595	ug/L	96
49) Dibromochloromethane	8.812	129	7324	2.071	ug/L	99
59) Bromoform	10.295	173	15717	4.559	ug/L	98
60) 1,2,3-Trichloropropane	10.783	75	12818	2.522	ug/L #	1

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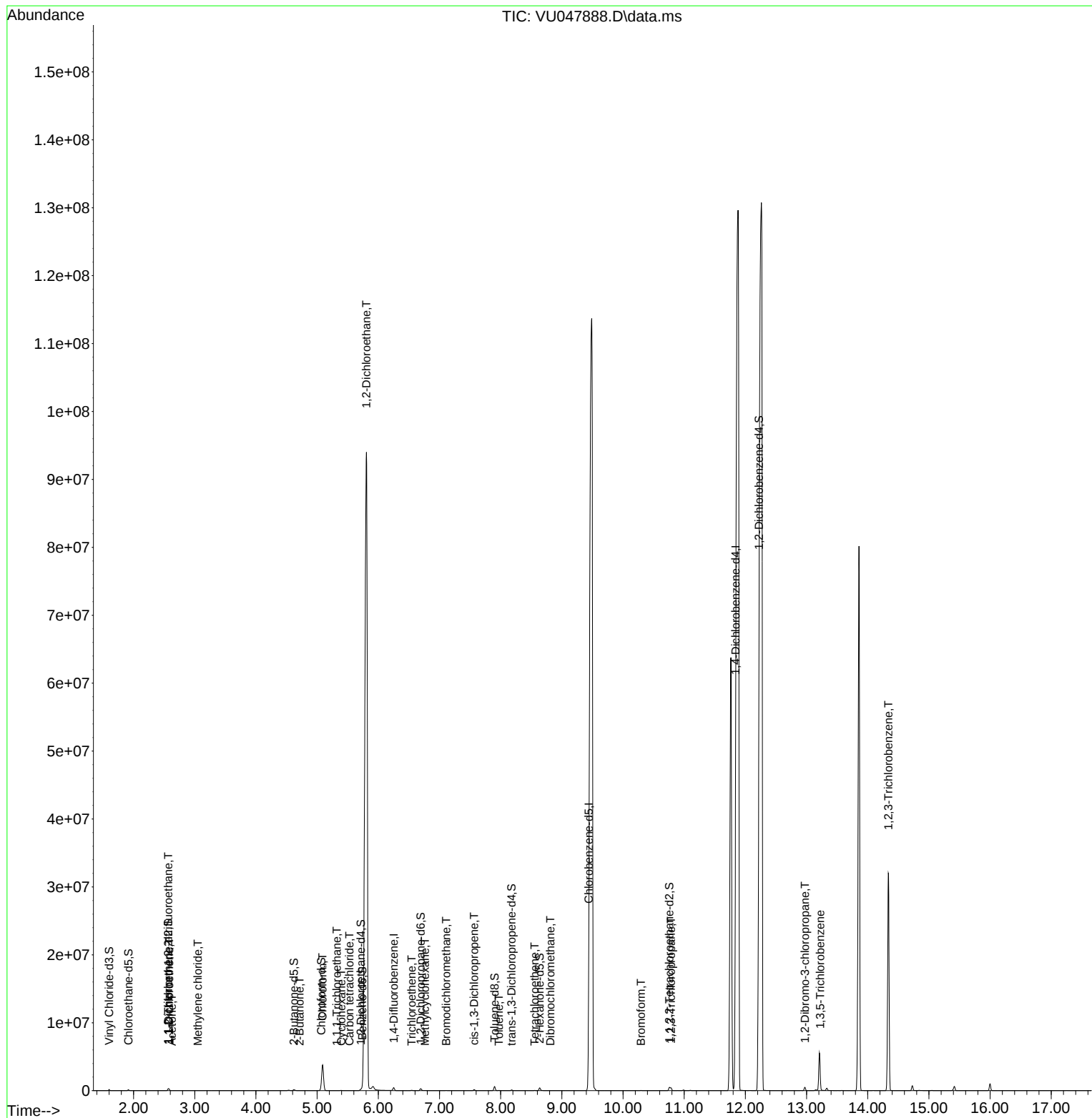
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2-Dibromo-3-chloropr...	12.973	75	73496	45.139	ug/L #	1
69) 1,3,5-Trichlorobenzene	13.224	180	16480	2.505	ug/L #	66
72) 1,2,3-Trichlorobenzene	14.340	180	10279173	1779.637	ug/L	99

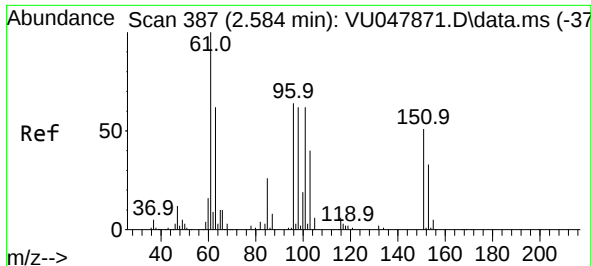
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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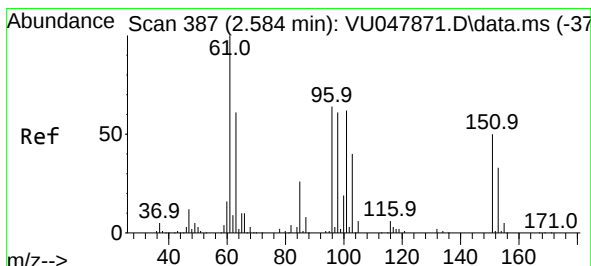
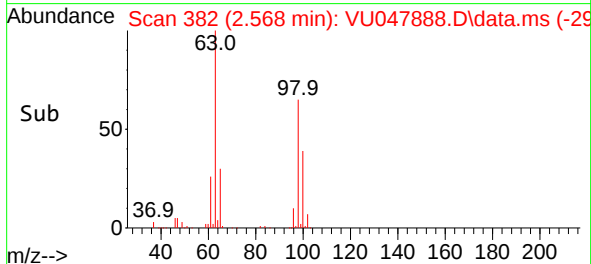
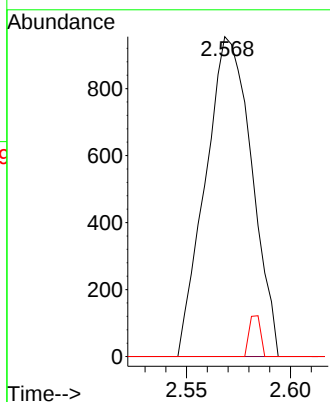
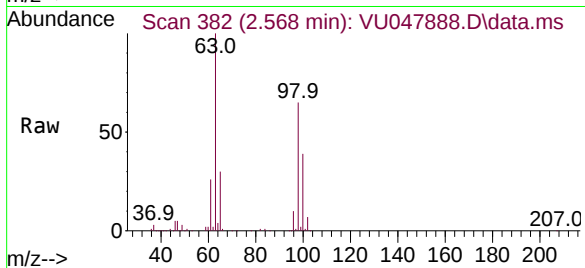




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.560 ug/L
 RT: 2.568 min Scan# 31
 Delta R.T. -0.016 min
 Lab File: VU047888.D
 Acq: 08 Apr 2022 23:33

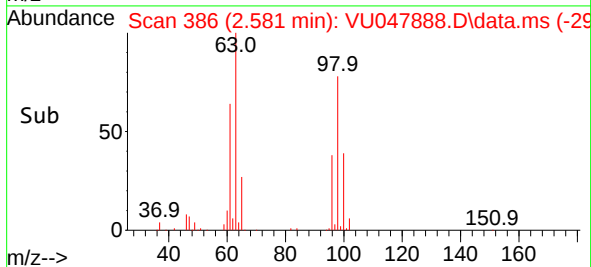
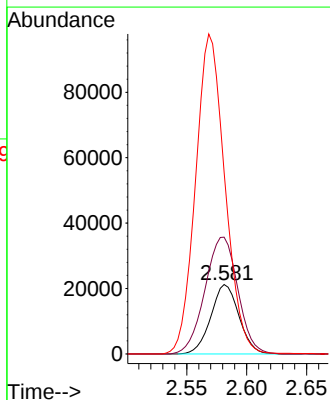
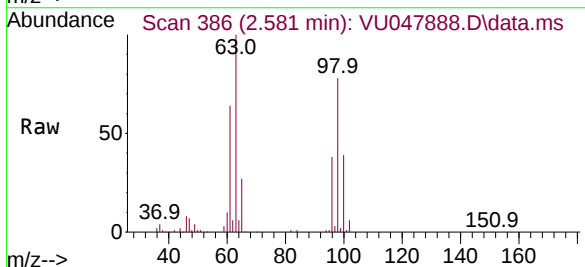
Instrument :
 MSVOA_U
 ClientSampleId :
 C0J71

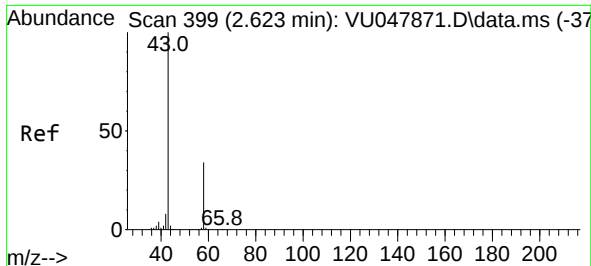
Tgt Ion:101 Resp: 1478
 Ion Ratio Lower Upper
 101 100
 85 0.0 32.8 49.2#
 151 3.2 63.0 94.6#



#12
 1,1-Dichloroethene
 Concen: 14.114 ug/L
 RT: 2.581 min Scan# 386
 Delta R.T. -0.003 min
 Lab File: VU047888.D
 Acq: 08 Apr 2022 23:33

Tgt Ion: 96 Resp: 34663
 Ion Ratio Lower Upper
 96 100
 61 167.9 113.1 210.1
 63 261.4 94.8 176.0#





#13

Acetone

Concen: 5.057 ug/L

RT: 2.623 min Scan# 399

Delta R.T. 0.000 min

Lab File: VU047888.D

Acq: 08 Apr 2022 23:33

Instrument :

MSVOA_U

ClientSampleId :

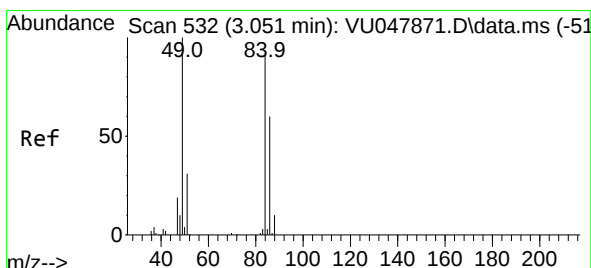
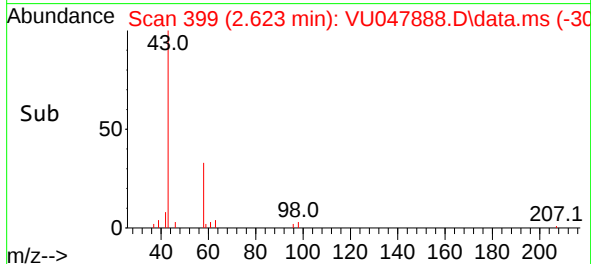
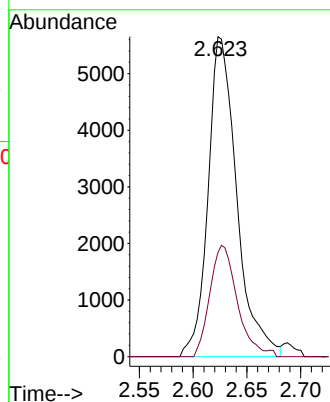
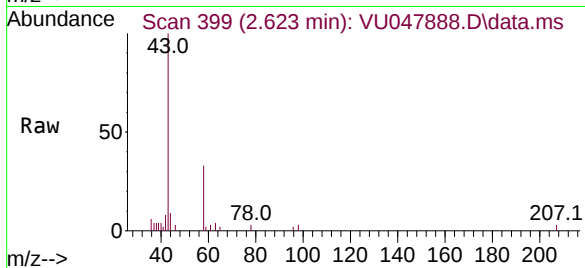
C0J71

Tgt Ion: 43 Resp: 10488

Ion Ratio Lower Upper

43 100

58 33.0 0.0 70.0



#16

Methylene chloride

Concen: 2.005 ug/L

RT: 3.051 min Scan# 532

Delta R.T. 0.000 min

Lab File: VU047888.D

Acq: 08 Apr 2022 23:33

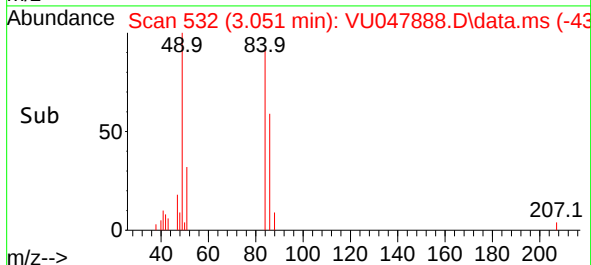
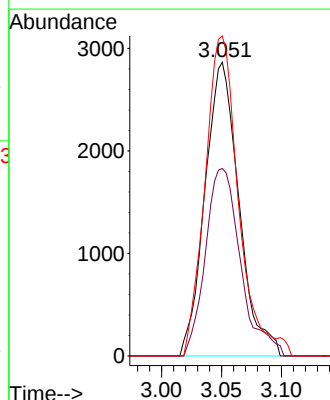
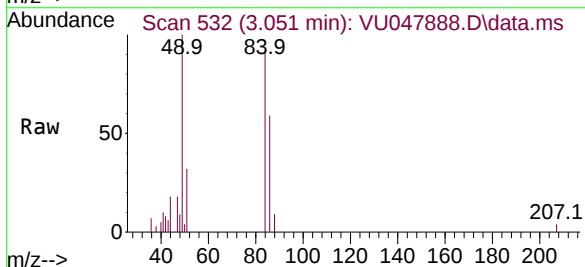
Tgt Ion: 84 Resp: 5650

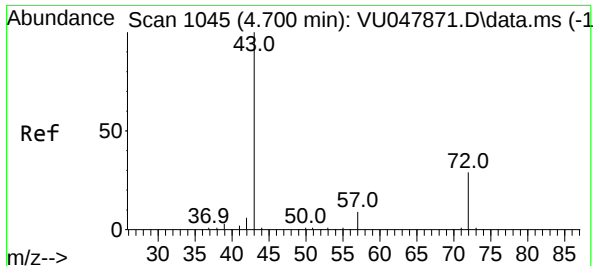
Ion Ratio Lower Upper

84 100

86 63.9 46.0 85.4

49 108.9 75.3 139.8

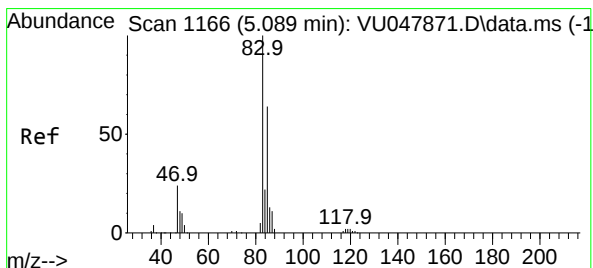
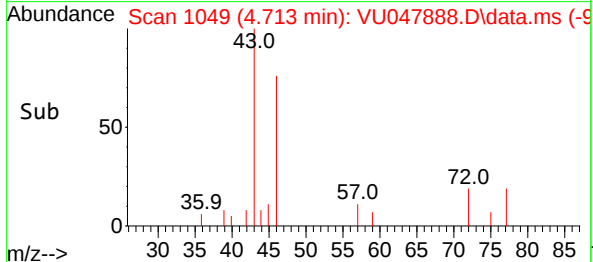
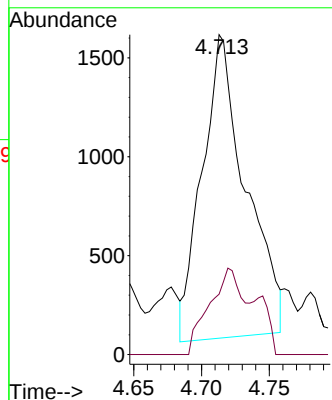
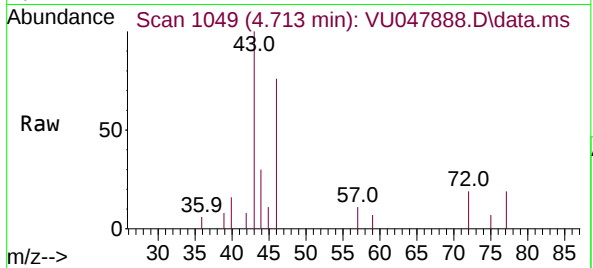




#22
2-Butanone
Concen: 1.281 ug/L
RT: 4.713 min Scan# 1049
Delta R.T. 0.013 min
Lab File: VU047888.D
Acq: 08 Apr 2022 23:33

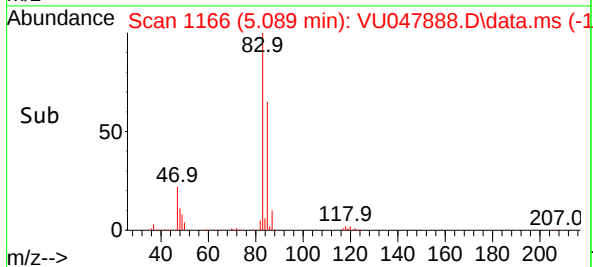
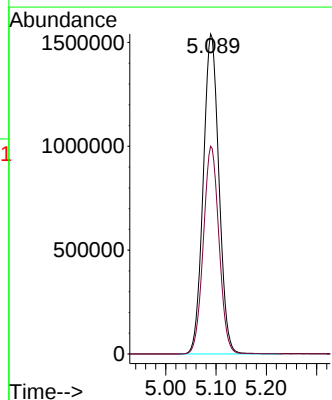
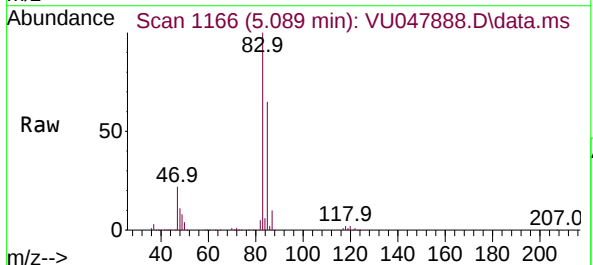
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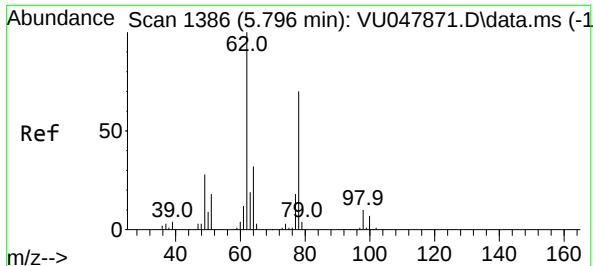
Tgt Ion: 43 Resp: 3422
Ion Ratio Lower Upper
43 100
72 22.2 16.0 47.9



#25
Chloroform
Concen: 678.912 ug/L
RT: 5.089 min Scan# 1166
Delta R.T. 0.000 min
Lab File: VU047888.D
Acq: 08 Apr 2022 23:33

Tgt Ion: 83 Resp: 3339263
Ion Ratio Lower Upper
83 100
85 64.9 46.2 85.8





#27

1,2-Dichloroethane

Concen: 403.131 ug/L

RT: 5.806 min Scan# 11

Delta R.T. 0.010 min

Lab File: VU047888.D

Acq: 08 Apr 2022 23:33

Instrument :

MSVOA_U

ClientSampleId :

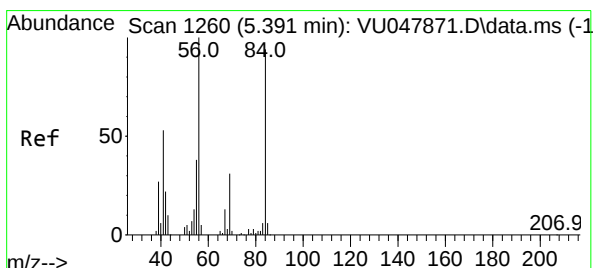
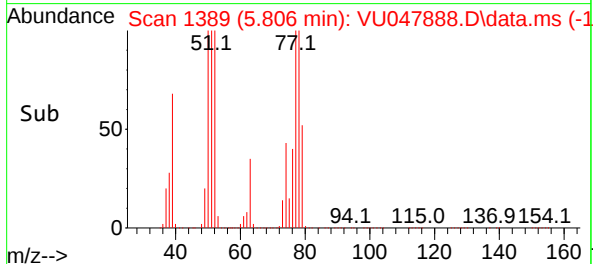
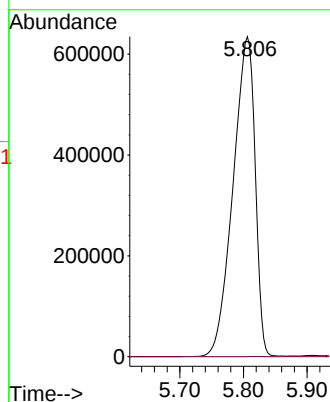
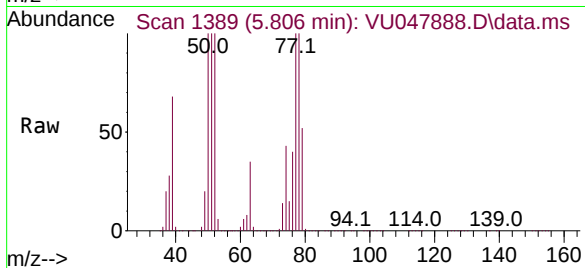
C0J71

Tgt Ion: 62 Resp: 1531907

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#



#29

Cyclohexane

Concen: 4.665 ug/L

RT: 5.395 min Scan# 1261

Delta R.T. 0.003 min

Lab File: VU047888.D

Acq: 08 Apr 2022 23:33

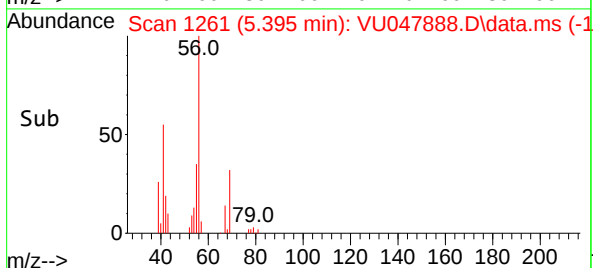
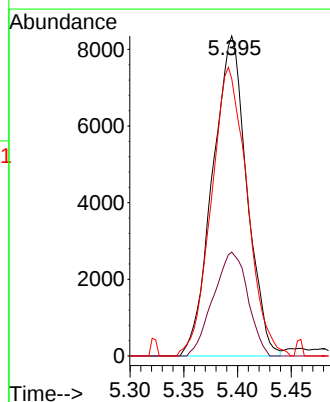
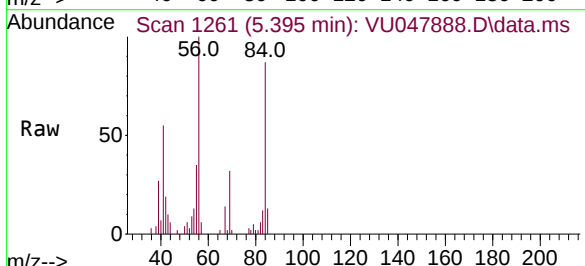
Tgt Ion: 56 Resp: 18524

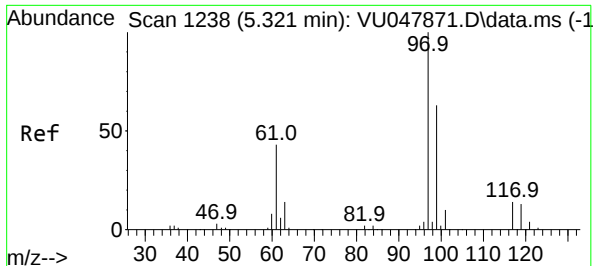
Ion Ratio Lower Upper

56 100

69 32.5 25.4 38.2

84 94.0 77.0 115.6





#30

1,1,1-Trichloroethane

Concen: 0.640 ug/L

RT: 5.321 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU047888.D

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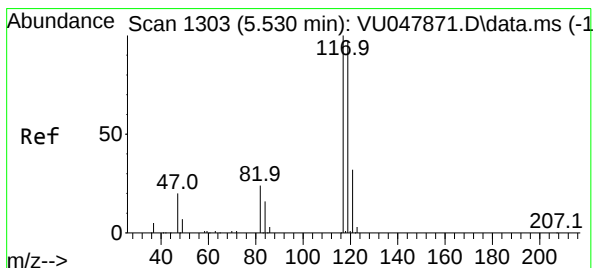
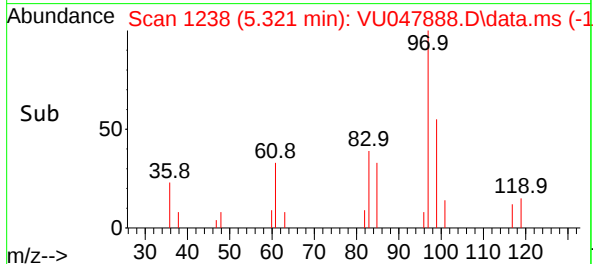
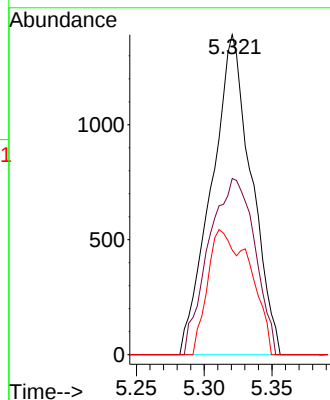
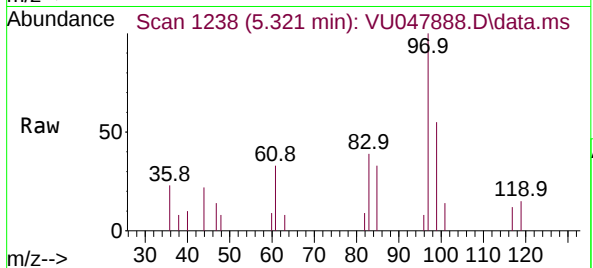
Tgt Ion: 97 Resp: 2840

Ion Ratio Lower Upper

97 100

99 63.7 51.6 77.4

61 26.5 34.2 51.4#



#31

Carbon tetrachloride

Concen: 0.539 ug/L

RT: 5.526 min Scan# 1302

Delta R.T. -0.003 min

Lab File: VU047888.D

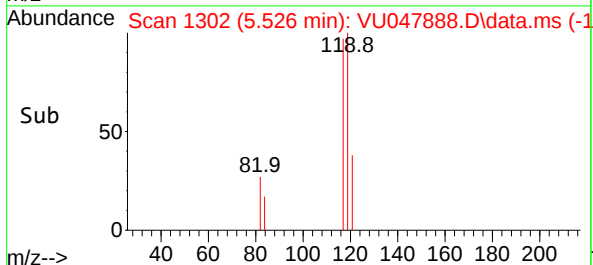
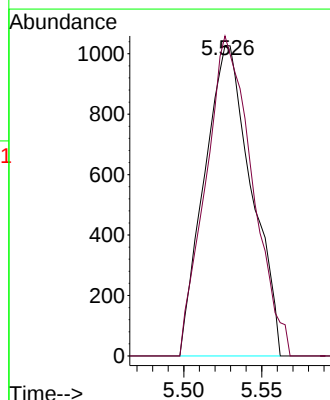
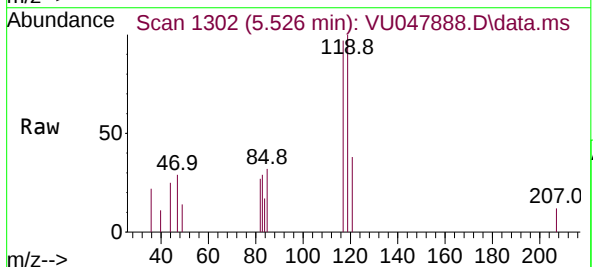
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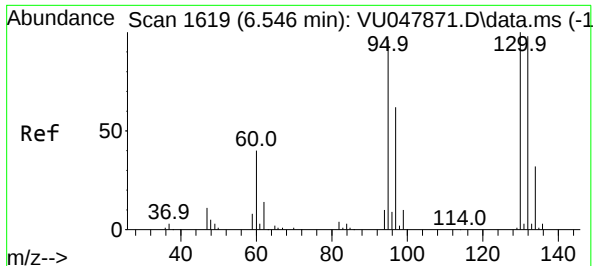
Tgt Ion: 117 Resp: 2158

Ion Ratio Lower Upper

117 100

119 101.9 77.2 115.8

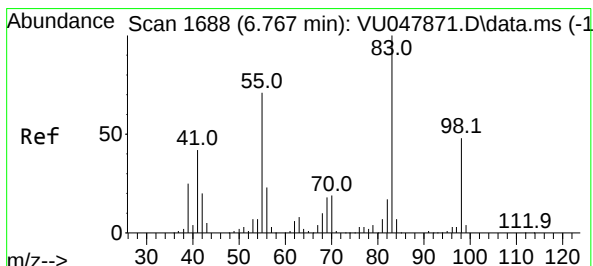
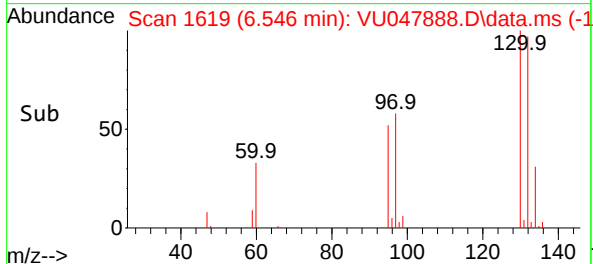
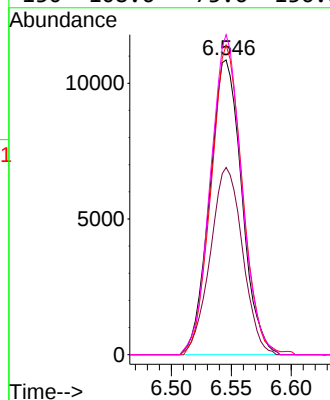
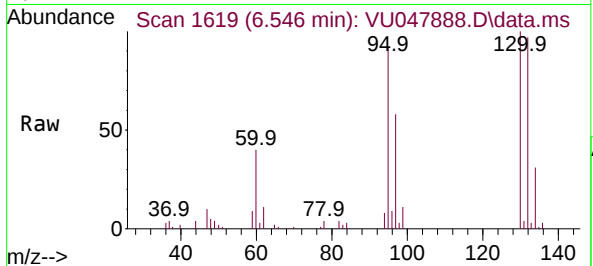




#34
Trichloroethene
Concen: 6.806 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU047888.D
Acq: 08 Apr 2022 23:33

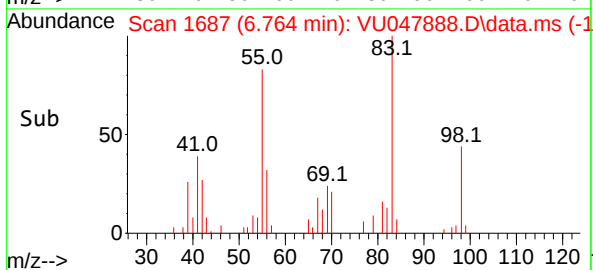
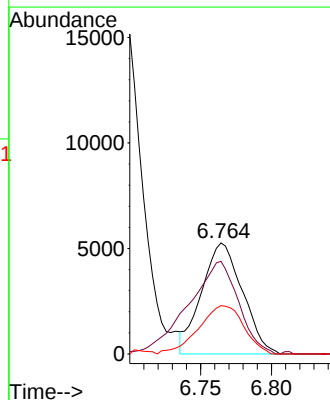
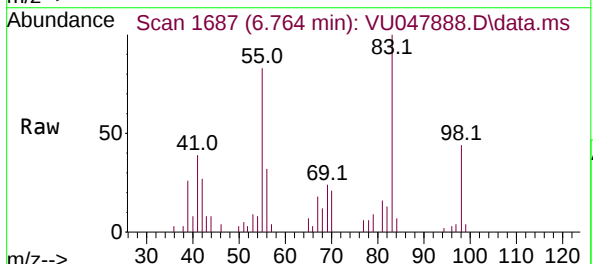
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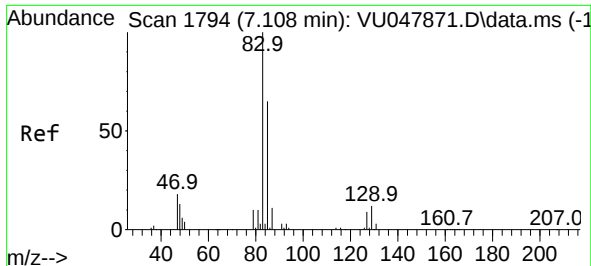
Tgt Ion: 95 Resp: 20209
Ion Ratio Lower Upper
95 100
97 63.5 44.7 82.9
132 105.1 70.4 130.8
130 108.6 73.6 136.8



#35
Methylcyclohexane
Concen: 2.334 ug/L
RT: 6.764 min Scan# 1687
Delta R.T. -0.003 min
Lab File: VU047888.D
Acq: 08 Apr 2022 23:33

Tgt Ion: 83 Resp: 10545
Ion Ratio Lower Upper
83 100
55 102.6 56.8 85.2#
98 48.0 38.1 57.1





#38

Bromodichloromethane

Concen: 4.993 ug/L

RT: 7.108 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU047888.D

Acq: 08 Apr 2022 23:33

Instrument :

MSVOA_U

ClientSampleId :

C0J71

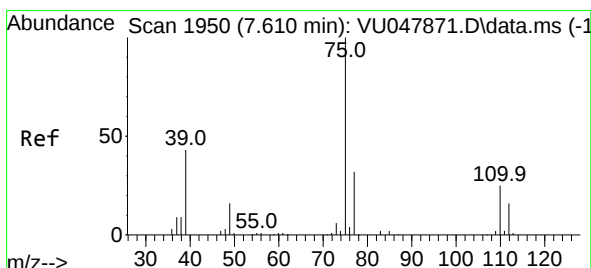
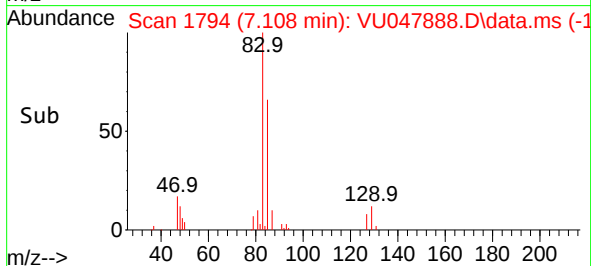
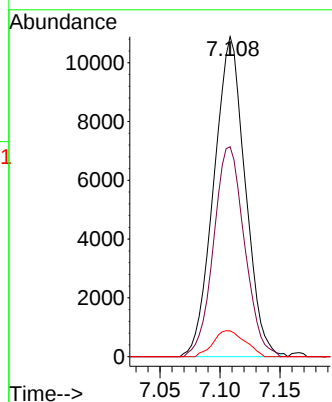
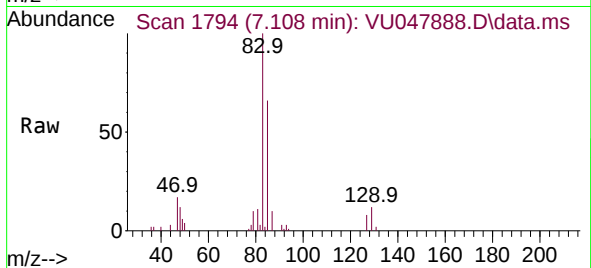
Tgt Ion: 83 Resp: 19740

Ion Ratio Lower Upper

83 100

85 65.6 44.4 82.4

127 8.1 7.2 10.8



#39

cis-1,3-Dichloropropene

Concen: 0.875 ug/L

RT: 7.565 min Scan# 1936

Delta R.T. -0.045 min

Lab File: VU047888.D

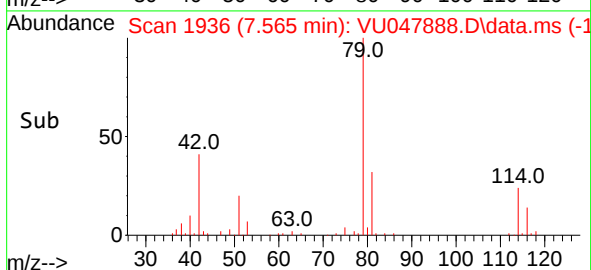
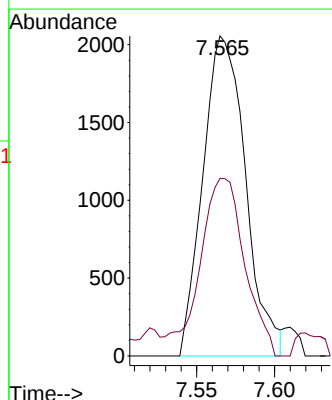
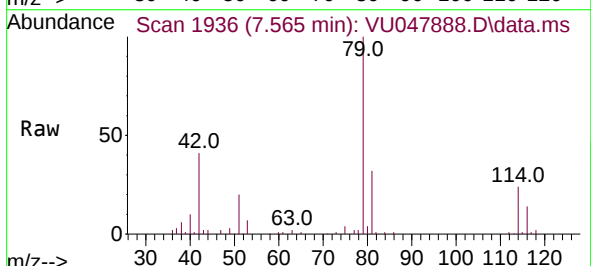
Acq: 08 Apr 2022 23:33

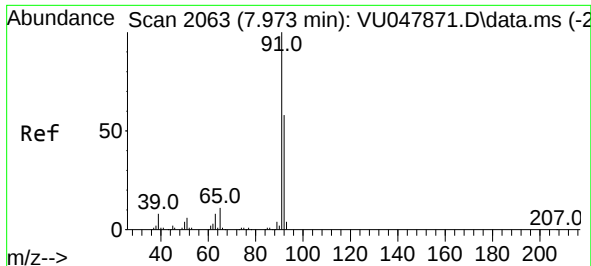
Tgt Ion: 75 Resp: 3909

Ion Ratio Lower Upper

75 100

77 55.5 21.8 40.6#





#42

Toluene

Concen: 1.827 ug/L

RT: 7.973 min Scan# 2063

Delta R.T. 0.000 min

Lab File: VU047888.D

Acq: 08 Apr 2022 23:33

Instrument :

MSVOA_U

ClientSampleId :

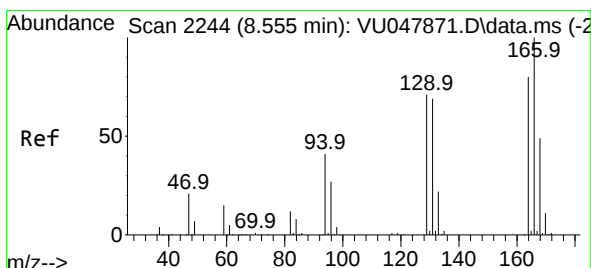
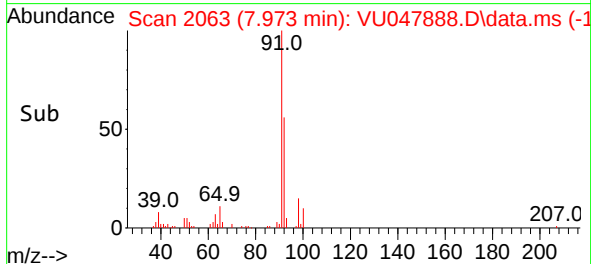
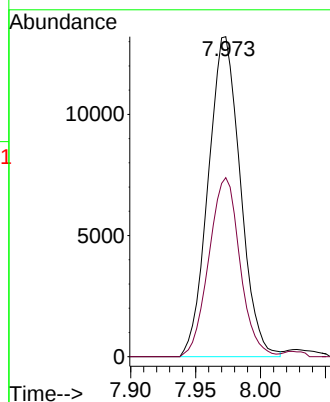
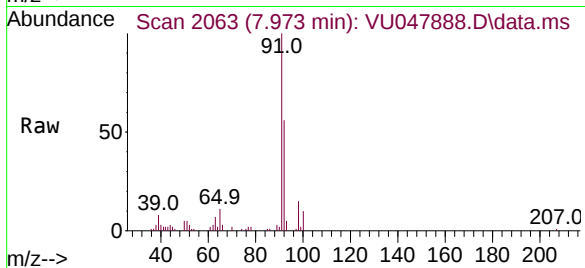
C0J71

Tgt Ion: 91 Resp: 22709

Ion Ratio Lower Upper

91 100

92 55.9 40.4 75.0



#46

Tetrachloroethene

Concen: 3.595 ug/L

RT: 8.555 min Scan# 2244

Delta R.T. 0.000 min

Lab File: VU047888.D

Acq: 08 Apr 2022 23:33

Tgt Ion: 164 Resp: 9594

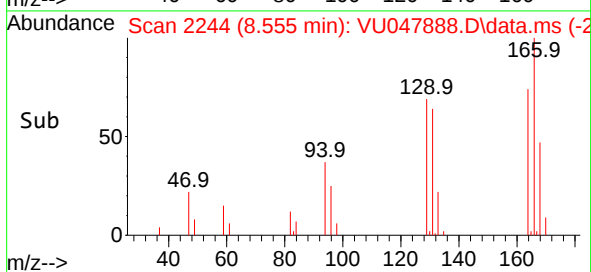
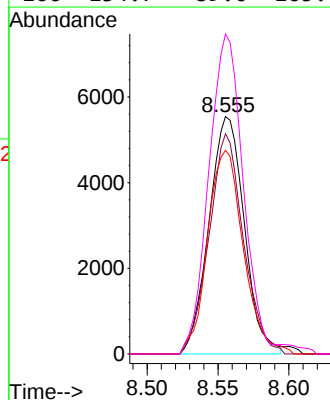
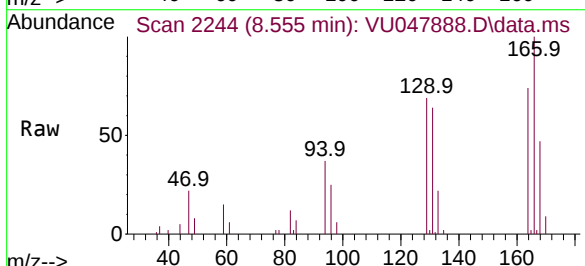
Ion Ratio Lower Upper

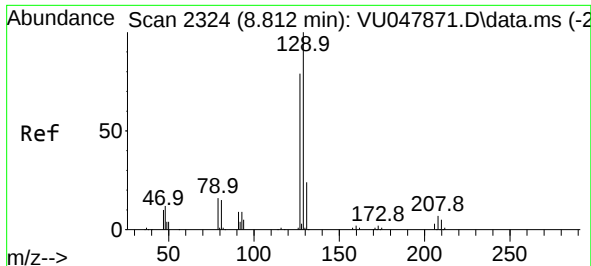
164 100

129 92.7 62.4 116.0

131 85.8 60.7 112.7

166 134.7 89.0 165.4





#49

Dibromochloromethane

Concen: 2.071 ug/L

RT: 8.812 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU047888.D

Acq: 08 Apr 2022 23:33

Instrument :

MSVOA_U

ClientSampleId :

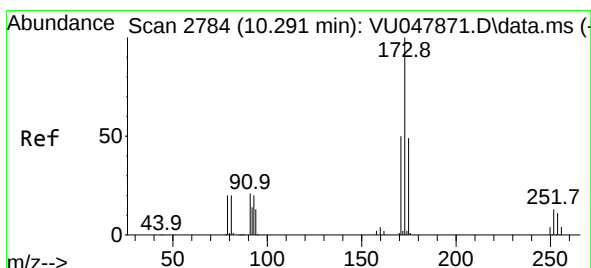
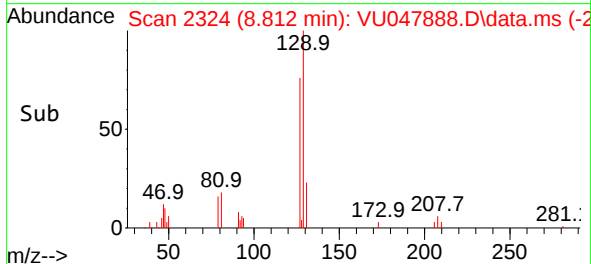
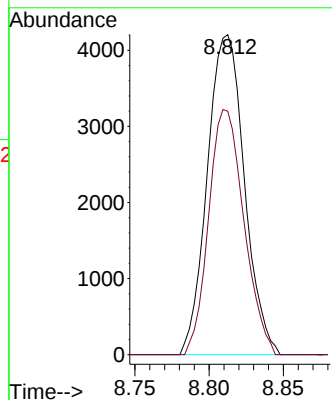
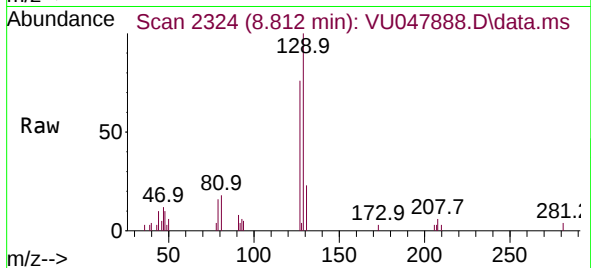
C0J71

Tgt Ion:129 Resp: 7324

Ion Ratio Lower Upper

129 100

127 76.1 54.2 100.6



#59

Bromoform

Concen: 4.559 ug/L

RT: 10.295 min Scan# 2785

Delta R.T. 0.003 min

Lab File: VU047888.D

Acq: 08 Apr 2022 23:33

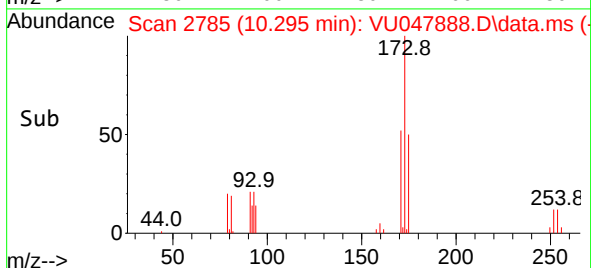
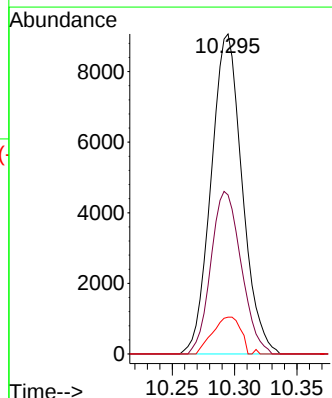
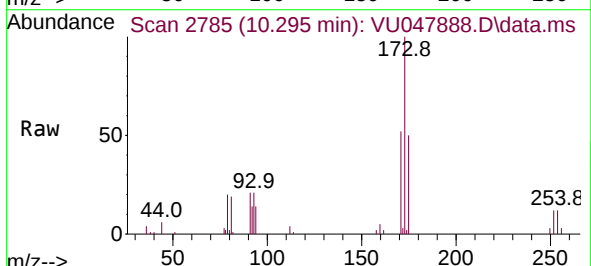
Tgt Ion:173 Resp: 15717

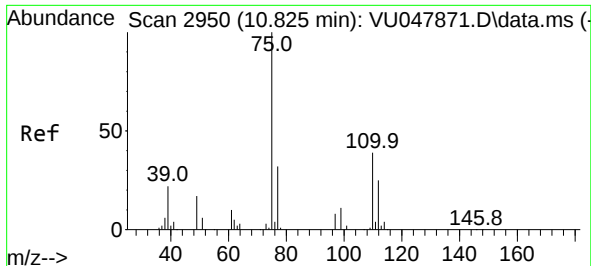
Ion Ratio Lower Upper

173 100

175 49.6 38.7 58.1

254 10.3 9.6 14.4

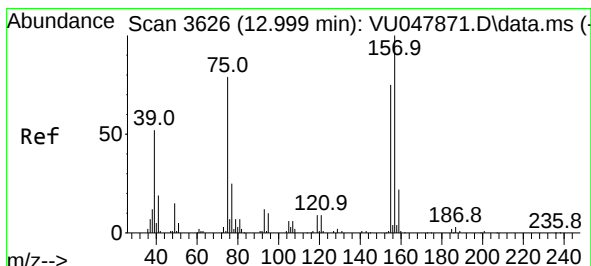
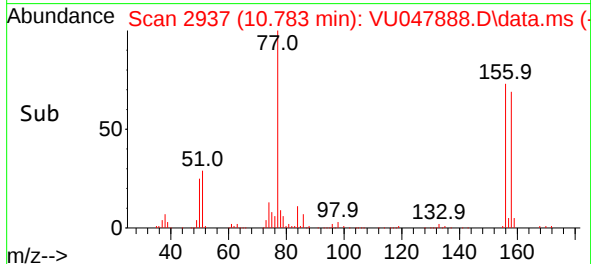
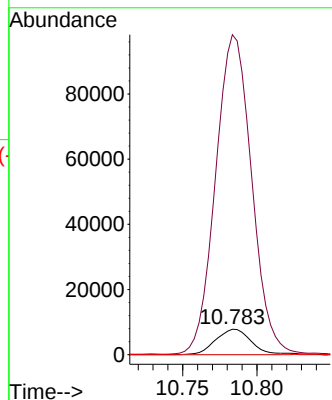
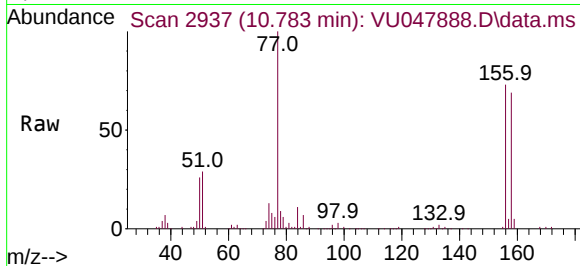




#60
 1,2,3-Trichloropropane
 Concen: 2.522 ug/L
 RT: 10.783 min Scan# 2950
 Delta R.T. -0.042 min
 Lab File: VU047888.D
 Acq: 08 Apr 2022 23:33

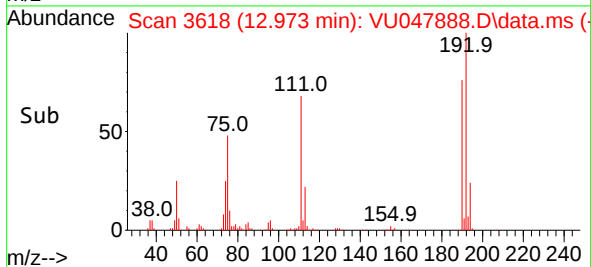
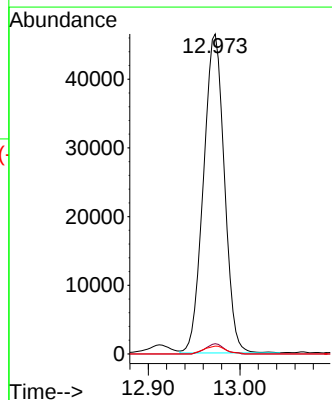
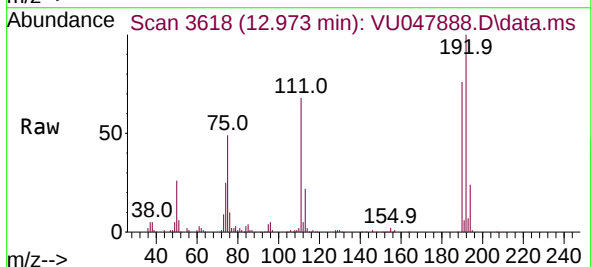
Instrument :
 MSVOA_U
 ClientSampleId :
 C0J71

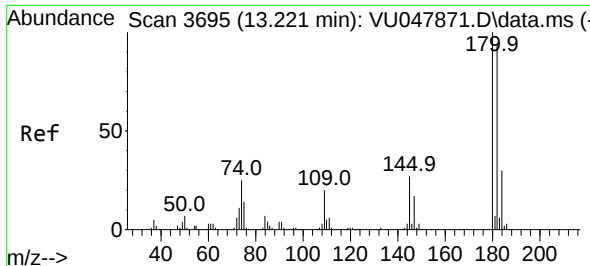
Tgt Ion: 75 Resp: 12818
 Ion Ratio Lower Upper
 75 100
 77 1292.1 26.0 39.0#
 110 0.0 31.4 47.2#



#68
 1,2-Dibromo-3-chloropropane
 Concen: 45.139 ug/L
 RT: 12.973 min Scan# 3618
 Delta R.T. -0.026 min
 Lab File: VU047888.D
 Acq: 08 Apr 2022 23:33

Tgt Ion: 75 Resp: 73496
 Ion Ratio Lower Upper
 75 100
 155 3.2 78.9 118.3#
 157 2.4 97.5 146.3#

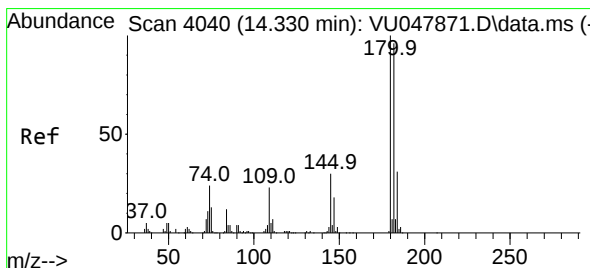
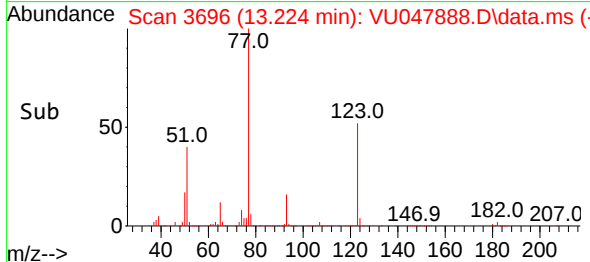
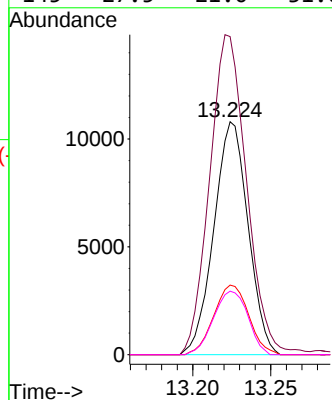
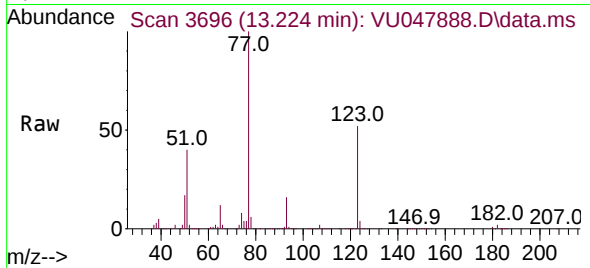




#69
 1,3,5-Trichlorobenzene
 Concen: 2.505 ug/L
 RT: 13.224 min Scan# 30
 Delta R.T. 0.003 min
 Lab File: VU047888.D
 Acq: 08 Apr 2022 23:33

Instrument :
 MSVOA_U
 ClientSampleId :
 C0J71

Tgt Ion:180 Resp: 16480
 Ion Ratio Lower Upper
 180 100
 182 148.4 77.0 115.6#
 184 30.5 24.5 36.7
 145 27.5 21.0 31.6



#72
 1,2,3-Trichlorobenzene
 Concen: 1779.637 ug/L
 RT: 14.340 min Scan# 4043
 Delta R.T. 0.010 min
 Lab File: VU047888.D
 Acq: 08 Apr 2022 23:33

Tgt Ion:180 Resp:10279173
 Ion Ratio Lower Upper
 180 100
 182 96.1 77.4 116.0
 145 30.4 22.8 34.2

