

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120721\
 Data File : VU046139.D
 Acq On : 07 Dec 2021 14:40
 Operator : SY/MD
 Sample : M4960-10
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 08 04:53:15 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	235029	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	228101	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	124708	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	87318	45.101	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	90.200%		
7) Chloroethane-d5	1.919	69	65827	44.284	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	88.560%		
11) 1,1-Dichloroethene-d2	2.572	63	121130	34.852	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	69.700%		
21) 2-Butanone-d5	4.639	46	128301	83.363	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	83.360%		
24) Chloroform-d	5.067	84	153535	47.488	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	94.980%		
26) 1,2-Dichloroethane-d4	5.703	65	98985	45.620	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	91.240%		
32) Benzene-d6	5.729	84	323504	49.482	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	98.960%		
36) 1,2-Dichloropropane-d6	6.694	67	98533	48.630	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	97.260%		
41) Toluene-d8	7.899	98	303132	50.924	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	101.840%		
43) trans-1,3-Dichloroprop...	8.179	79	47111	48.166	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	96.340%		
47) 2-Hexanone-d5	8.632	63	101078	105.215	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	105.210%		
56) 1,1,2,2-Tetrachloroeth...	10.758	84	146383	47.639	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	95.280%		
66) 1,2-Dichlorobenzene-d4	12.195	152	123140	51.273	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	102.540%		
Target Compounds						Qvalue
5) Vinyl chloride	1.607	62	4830	2.094	ug/L #	1
10) 1,1,2-Trichloro-1,2,2-...	2.568	101	1136	0.664	ug/L #	21
12) 1,1-Dichloroethene	2.575	96	1113	0.685	ug/L #	1
13) Acetone	2.658	43	9770	5.079	ug/L	95
19) 1,1-Dichloroethane	3.874	63	61515	19.673	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	18936	10.148	ug/L	99
22) 2-Butanone	4.723	43	5146	2.458	ug/L	80
27) 1,2-Dichloroethane	5.797	62	4116	1.597	ug/L	98
29) Cyclohexane	5.388	56	6716	2.529	ug/L	88
33) Benzene	5.777	78	48955	7.091	ug/L	100
35) Methylcyclohexane	6.771	83	3610	1.280	ug/L #	72
39) cis-1,3-Dichloropropene	7.568	75	2893	1.052	ug/L #	75
42) Toluene	7.970	91	243354	32.851	ug/L	99
44) trans-1,3-Dichloropropene	8.179	75	1936	0.716	ug/L #	72
45) 1,1,2-Trichloroethane	8.372	97	2794	1.540	ug/L #	20
51) Chlorobenzene	9.446	112	3790	0.791	ug/L	92
52) Ethylbenzene	9.571	91	407143	51.068	ug/L	98
53) m,p-Xylene	9.693	106	192034	61.764	ug/L	100
54) o-xylene	10.102	106	75380	24.986	ug/L	95

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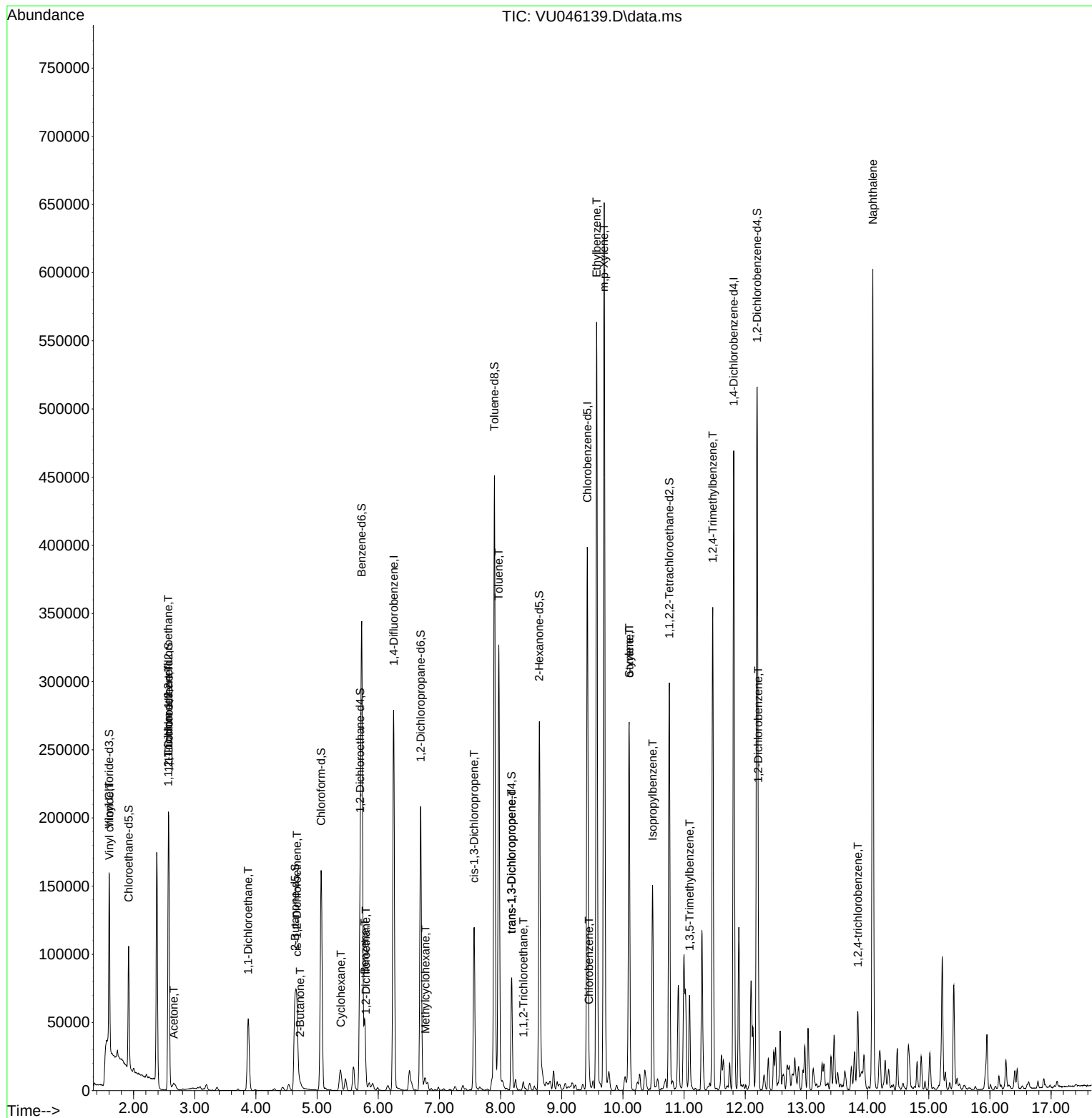
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	10.102	104	5664	1.100	ug/L #	1
61) Isopropylbenzene	10.484	105	102371	12.617	ug/L	100
62) 1,3,5-Trimethylbenzene	11.089	105	37125	5.489	ug/L	98
63) 1,2,4-Trimethylbenzene	11.468	105	198137	29.282	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	15090	3.888	ug/L	99
70) 1,2,4-trichlorobenzene	13.841	180	7104	2.851	ug/L #	86
71) Naphthalene	14.086	128	469556	54.145	ug/L	99

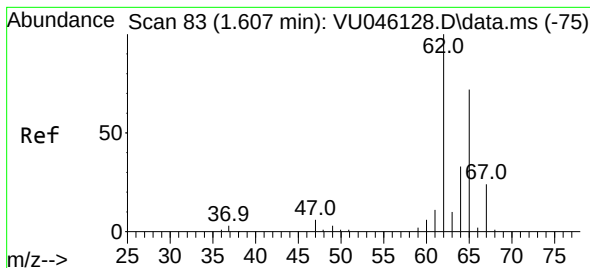
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 2.094 ug/L

RT: 1.607 min Scan# 81

Delta R.T. -0.000 min

Lab File: VU046139.D

Acq: 07 Dec 2021 14:40

Instrument :

MSVOA_U

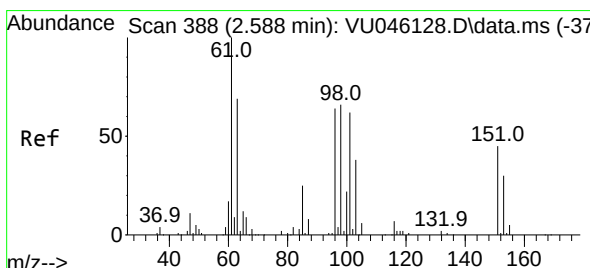
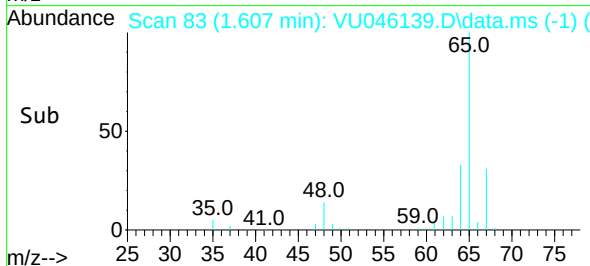
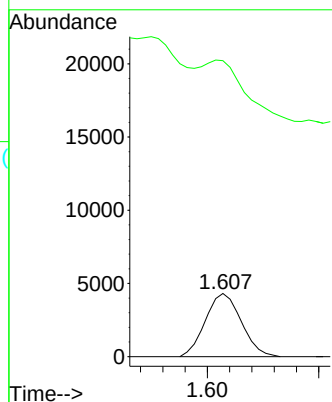
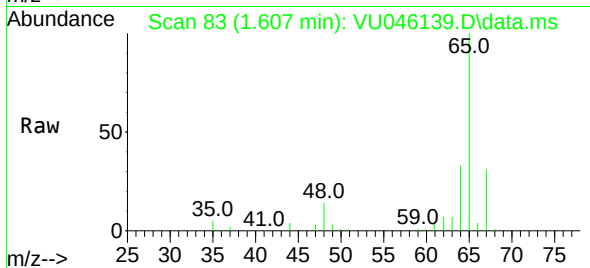
ClientSampleId :

Tgt Ion: 62 Resp: 4830

Ion Ratio Lower Upper

62 100

64 467.9 22.9 42.5#



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.664 ug/L

RT: 2.568 min Scan# 382

Delta R.T. -0.019 min

Lab File: VU046139.D

Acq: 07 Dec 2021 14:40

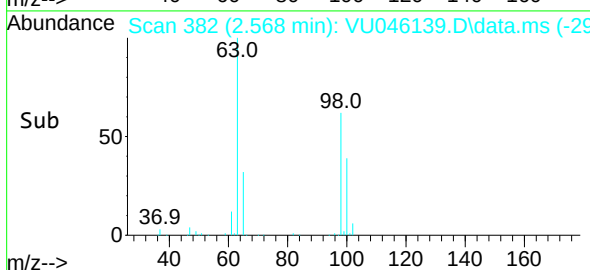
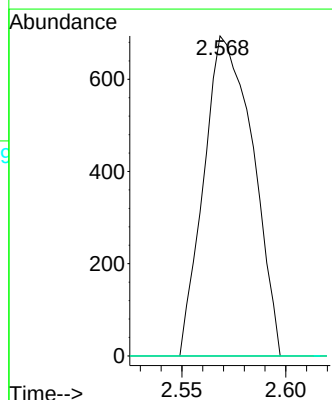
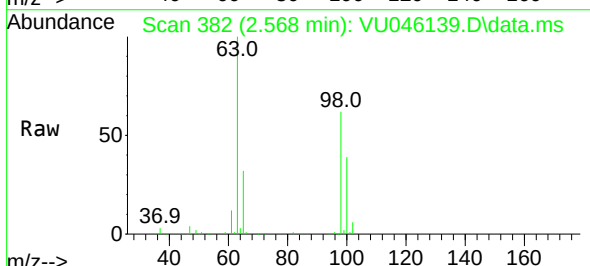
Tgt Ion: 101 Resp: 1136

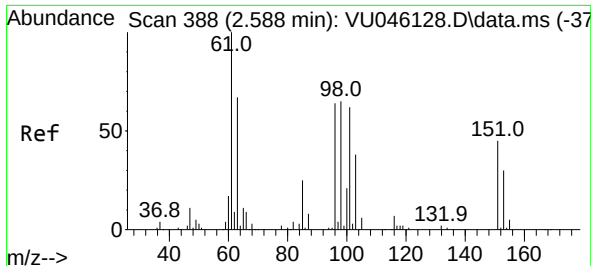
Ion Ratio Lower Upper

101 100

85 0.0 35.1 52.7#

151 0.0 56.7 85.1#





#12

1,1-Dichloroethene

Concen: 0.685 ug/L

RT: 2.575 min Scan# 384

Delta R.T. -0.010 min

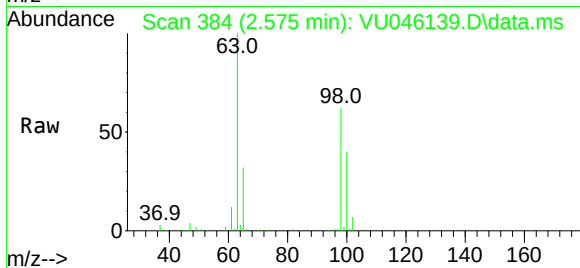
Lab File: VU046139.D

Acq: 07 Dec 2021 14:40

Instrument :

MSVOA_U

ClientSampleId :



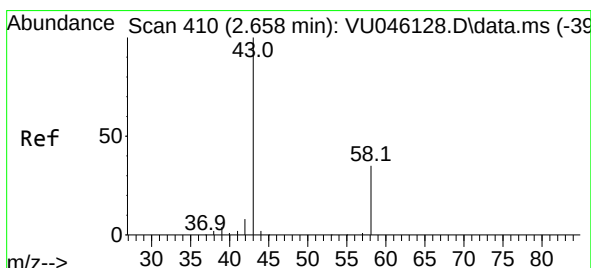
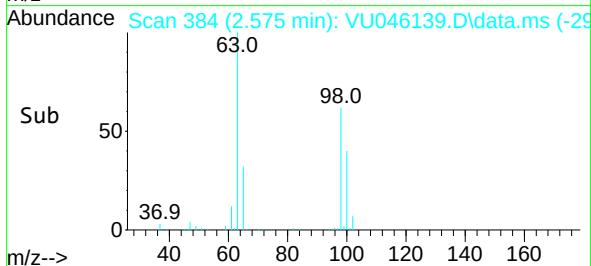
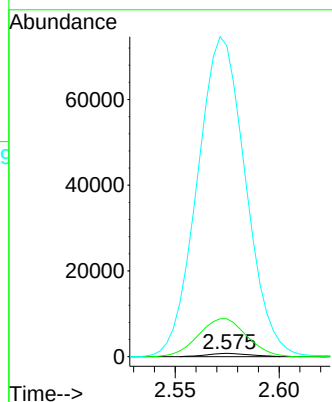
Tgt Ion: 96 Resp: 1113

Ion Ratio Lower Upper

96 100

61 1148.5 118.6 220.2#

63 9414.3 93.0 172.8#



#13

Acetone

Concen: 5.079 ug/L

RT: 2.658 min Scan# 410

Delta R.T. -0.003 min

Lab File: VU046139.D

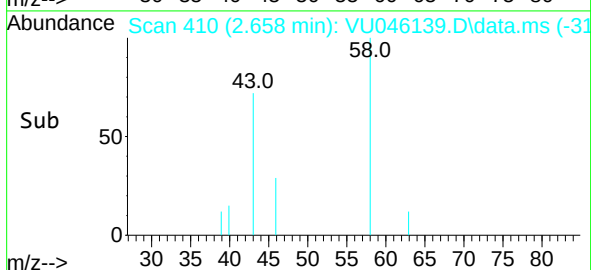
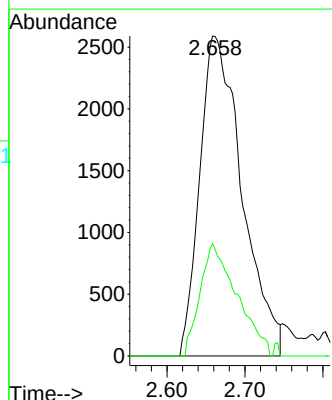
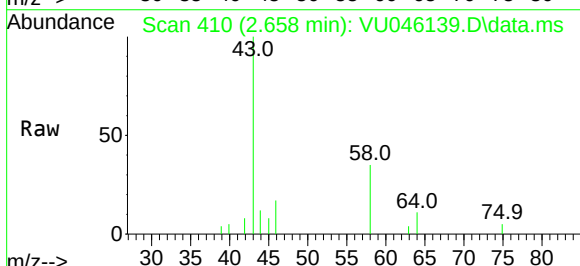
Acq: 07 Dec 2021 14:40

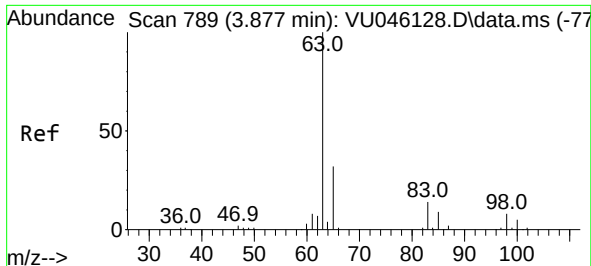
Tgt Ion: 43 Resp: 9770

Ion Ratio Lower Upper

43 100

58 30.6 0.0 66.8





#19

1,1-Dichloroethane

Concen: 19.673 ug/L

RT: 3.874 min Scan# 789

Delta R.T. -0.003 min

Lab File: VU046139.D

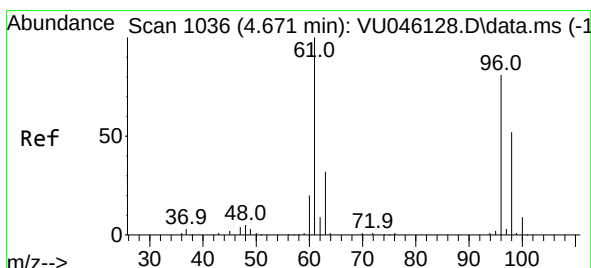
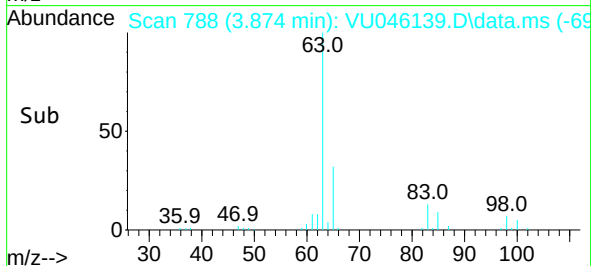
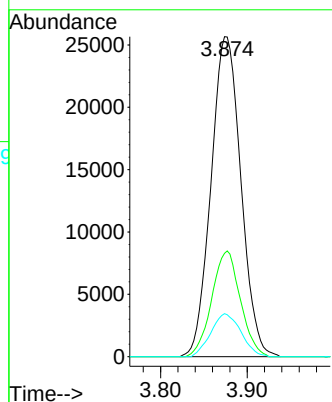
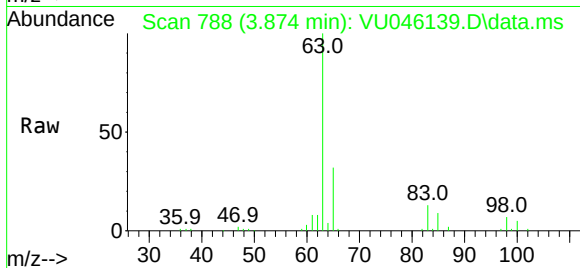
Acq: 07 Dec 2021 14:40

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 63	Resp: 61515
Ion Ratio	Lower Upper
63 100	
65 32.3	22.8 42.4
83 13.5	9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 10.148 ug/L

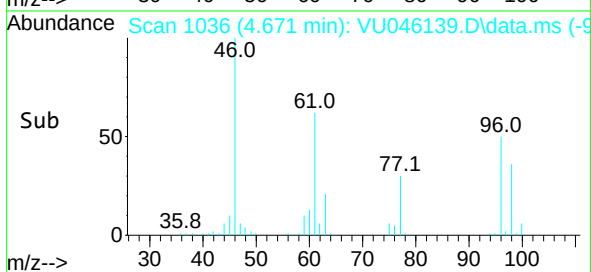
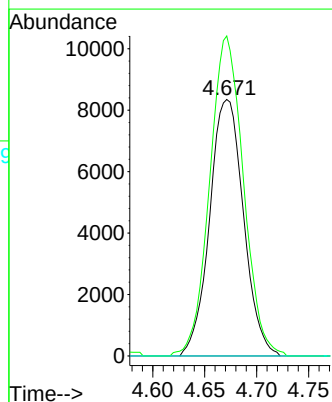
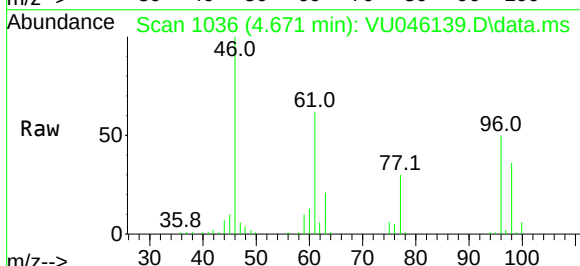
RT: 4.671 min Scan# 1036

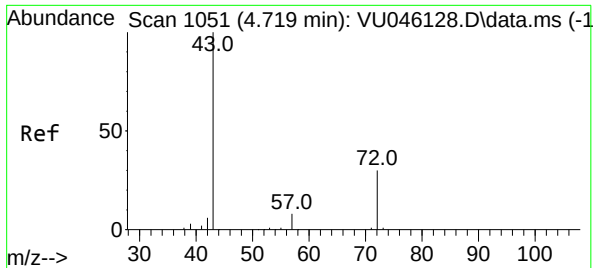
Delta R.T. -0.000 min

Lab File: VU046139.D

Acq: 07 Dec 2021 14:40

Tgt Ion: 96	Resp: 18936
Ion Ratio	Lower Upper
96 100	
61 124.8	86.8 161.2
68 0.0	0.0 0.0

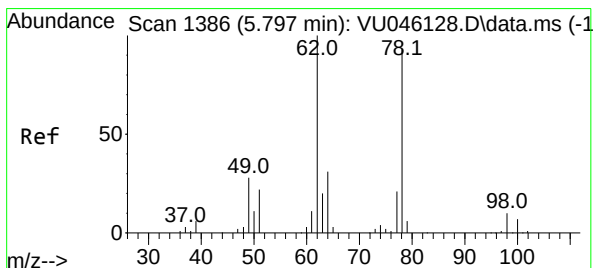
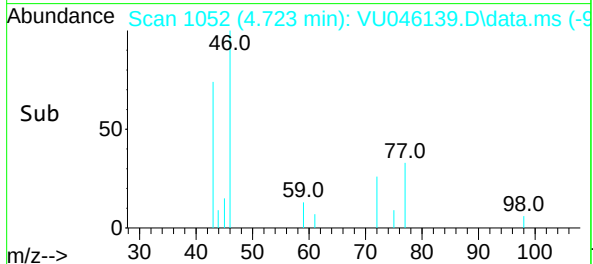
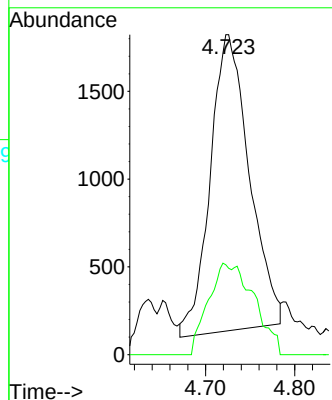
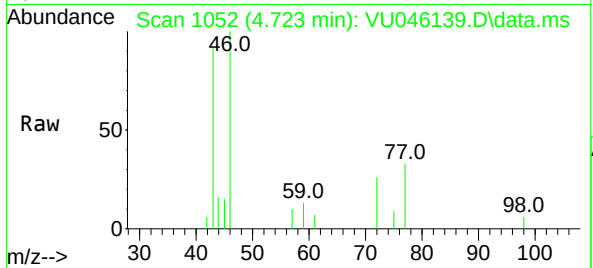




#22
2-Butanone
Concen: 2.458 ug/L
RT: 4.723 min Scan# 1052
Delta R.T. -0.000 min
Lab File: VU046139.D
Acq: 07 Dec 2021 14:40

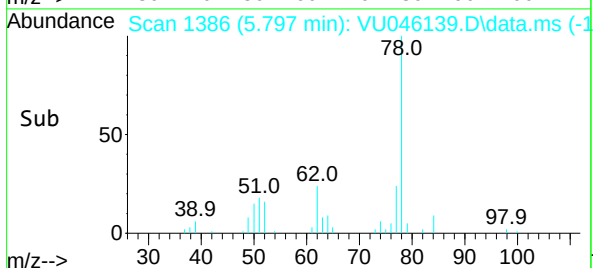
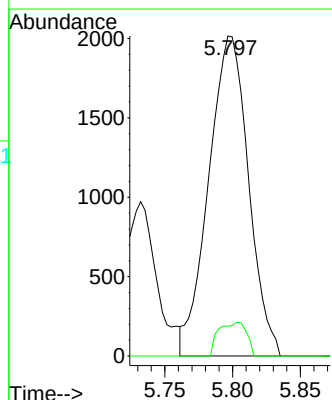
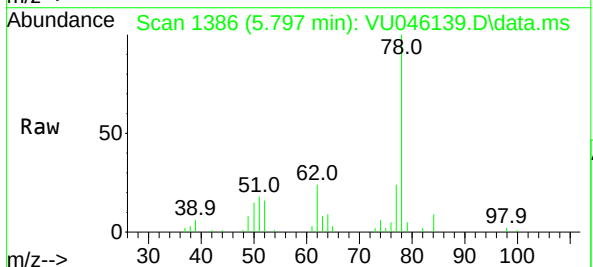
Instrument :
MSVOA_U
ClientSampleId :

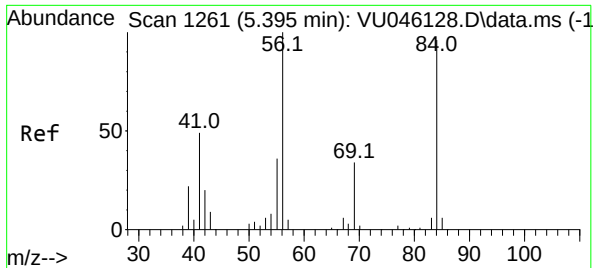
Tgt Ion: 43 Resp: 5146
Ion Ratio Lower Upper
43 100
72 18.3 14.5 43.6



#27
1,2-Dichloroethane
Concen: 1.597 ug/L
RT: 5.797 min Scan# 1386
Delta R.T. -0.003 min
Lab File: VU046139.D
Acq: 07 Dec 2021 14:40

Tgt Ion: 62 Resp: 4116
Ion Ratio Lower Upper
62 100
98 9.3 7.9 11.9





#29

Cyclohexane

Concen: 2.529 ug/L

RT: 5.388 min Scan# 1259

Delta R.T. -0.006 min

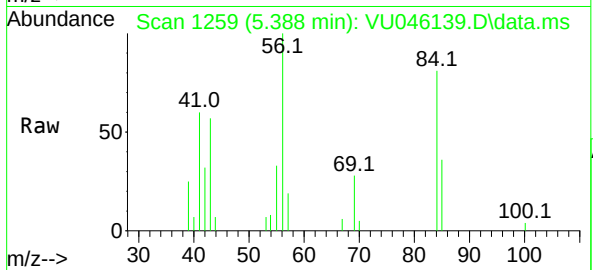
Lab File: VU046139.D

Acq: 07 Dec 2021 14:40

Instrument :

MSVOA_U

ClientSampleId :



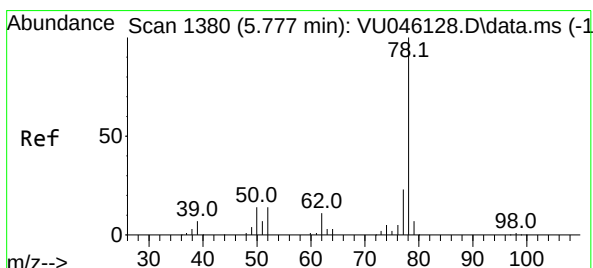
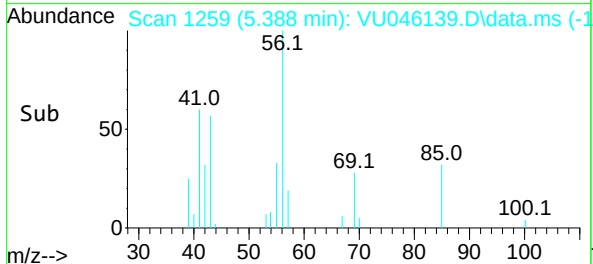
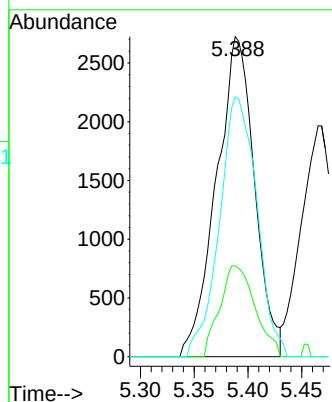
Tgt Ion: 56 Resp: 6716

Ion Ratio Lower Upper

56 100

69 26.2 25.2 37.8

84 79.5 73.3 109.9



#33

Benzene

Concen: 7.091 ug/L

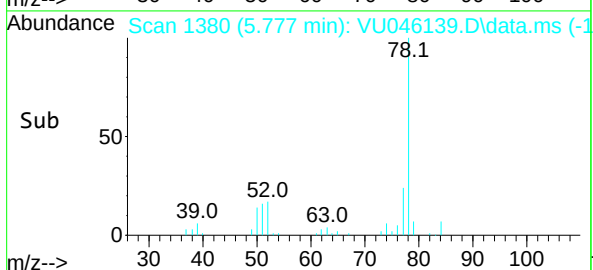
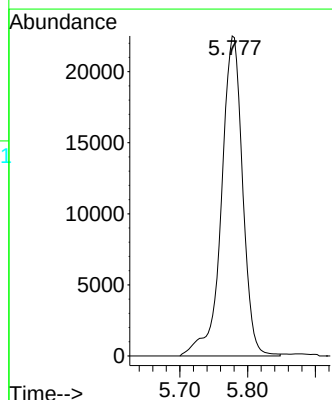
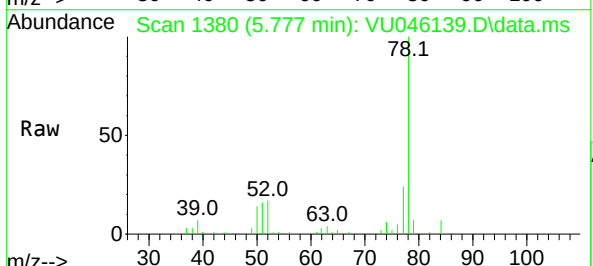
RT: 5.777 min Scan# 1380

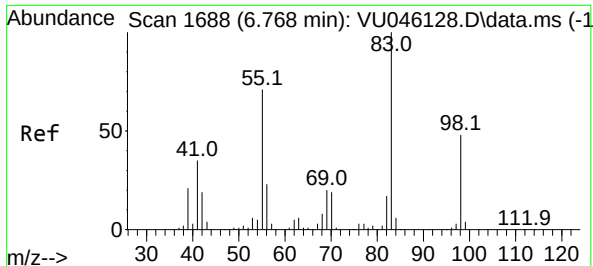
Delta R.T. -0.003 min

Lab File: VU046139.D

Acq: 07 Dec 2021 14:40

Tgt Ion: 78 Resp: 48955

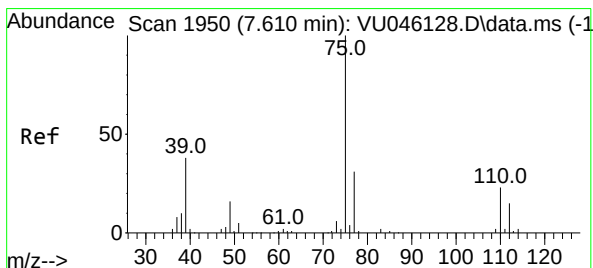
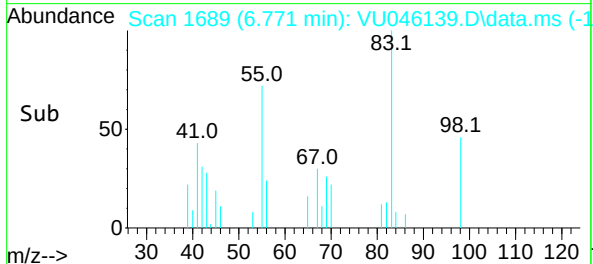
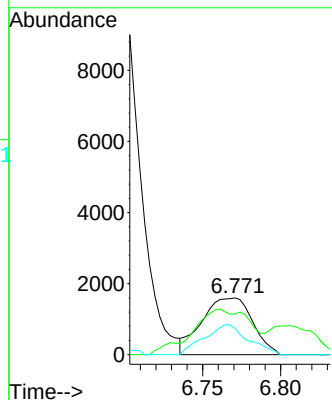
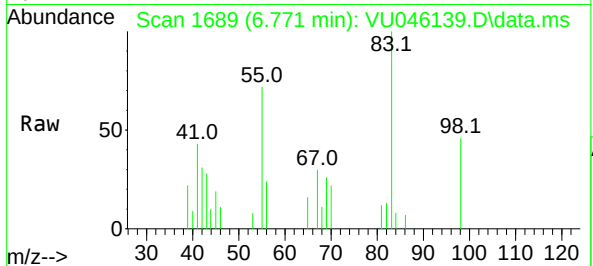




#35
Methylcyclohexane
Concen: 1.280 ug/L
RT: 6.771 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU046139.D
Acq: 07 Dec 2021 14:40

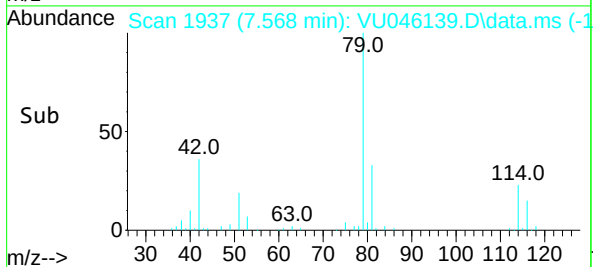
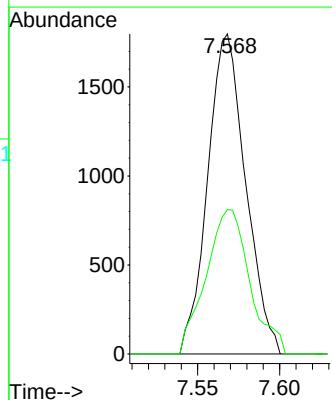
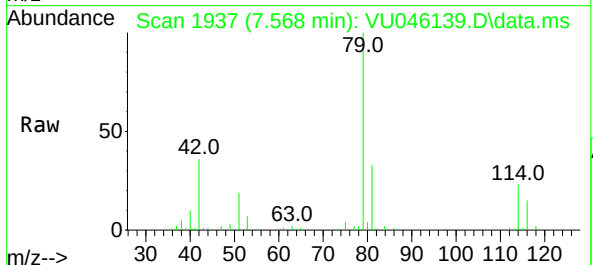
Instrument :
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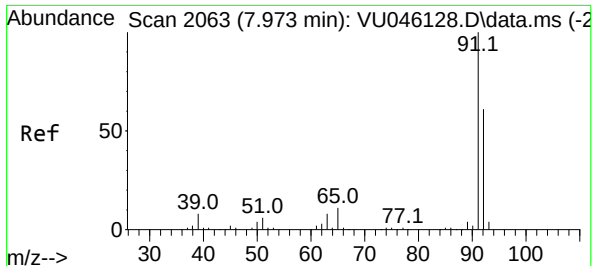
Tgt Ion: 83 Resp: 3610
Ion Ratio Lower Upper
83 100
55 34.7 57.8 86.6#
98 45.5 38.4 57.6



#39
cis-1,3-Dichloropropene
Concen: 1.052 ug/L
RT: 7.568 min Scan# 1937
Delta R.T. -0.042 min
Lab File: VU046139.D
Acq: 07 Dec 2021 14:40

Tgt Ion: 75 Resp: 2893
Ion Ratio Lower Upper
75 100
77 45.2 21.8 40.6#





#42

Toluene

Concen: 32.851 ug/L

RT: 7.970 min Scan# 2063

Delta R.T. -0.003 min

Lab File: VU046139.D

Acq: 07 Dec 2021 14:40

Instrument :

MSVOA_U

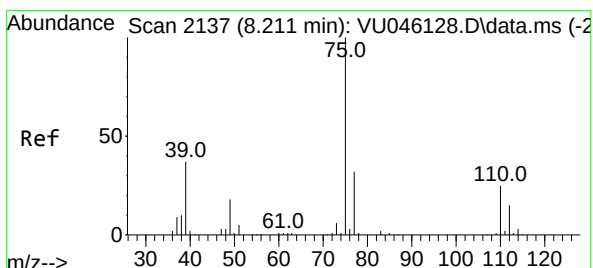
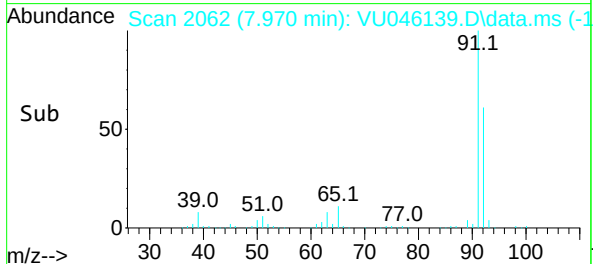
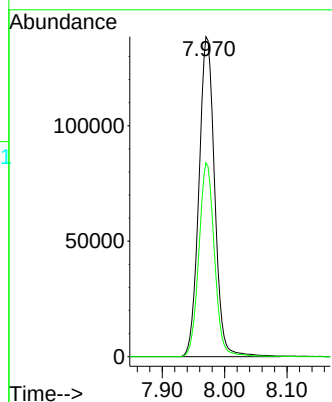
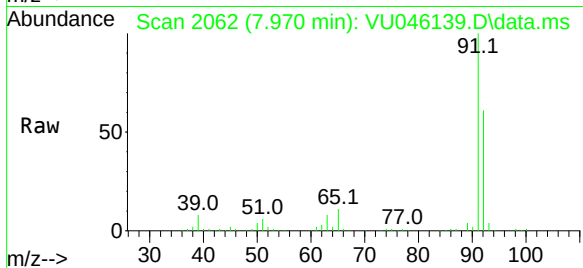
ClientSampleId :

Tgt Ion: 91 Resp: 243354

Ion Ratio Lower Upper

91 100

92 60.6 41.9 77.7



#44

trans-1,3-Dichloropropene

Concen: 0.716 ug/L

RT: 8.179 min Scan# 2127

Delta R.T. -0.035 min

Lab File: VU046139.D

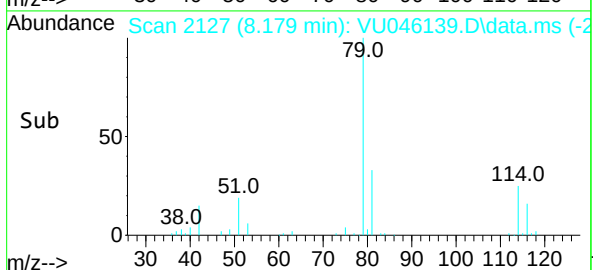
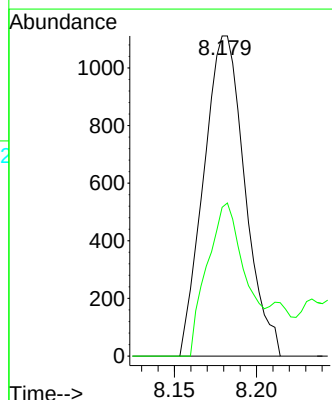
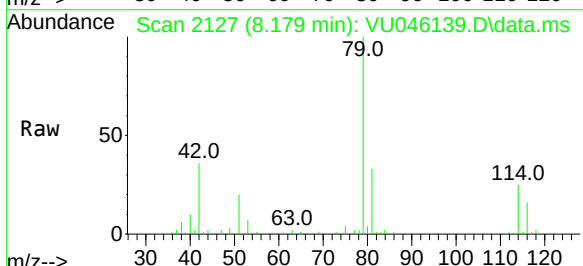
Acq: 07 Dec 2021 14:40

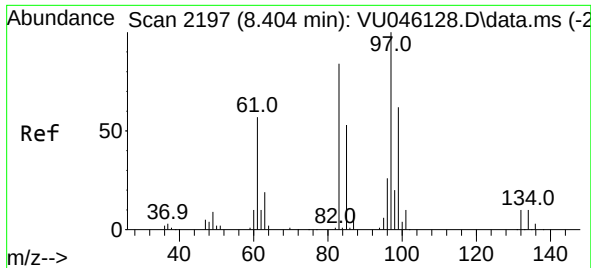
Tgt Ion: 75 Resp: 1936

Ion Ratio Lower Upper

75 100

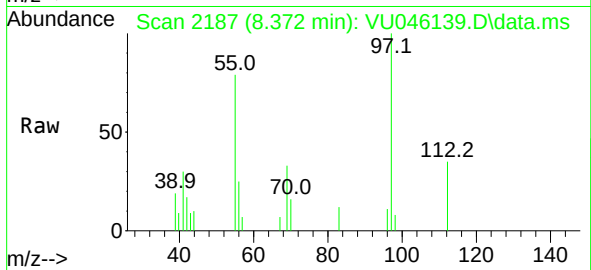
77 46.4 21.7 40.3#



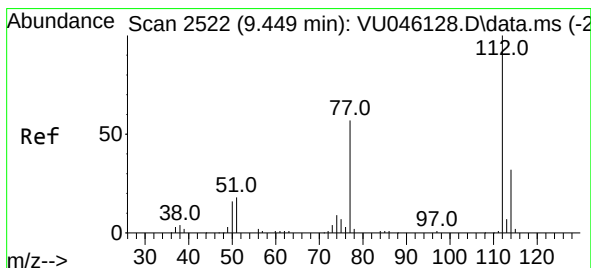
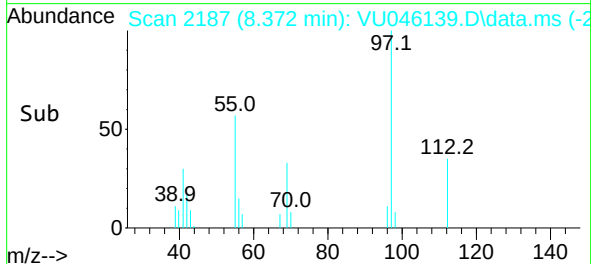
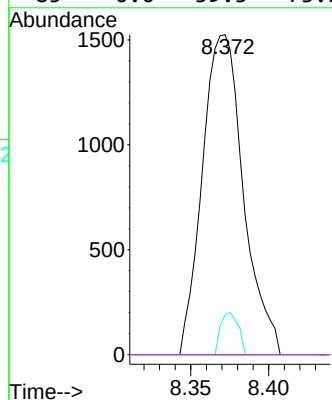


#45
1,1,2-Trichloroethane
Concen: 1.540 ug/L
RT: 8.372 min Scan# 2197
Delta R.T. -0.032 min
Lab File: VU046139.D
Acq: 07 Dec 2021 14:40

Instrument :
MSVOA_U
ClientSampleId :

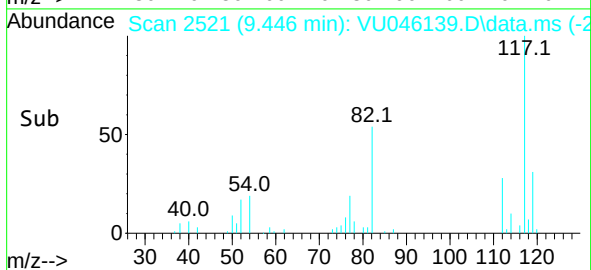
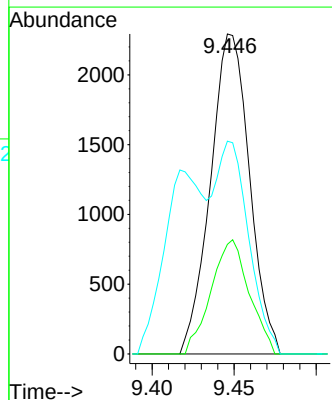
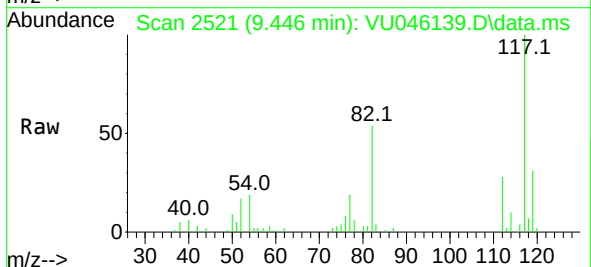


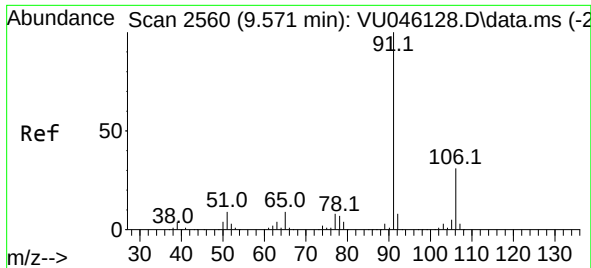
Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	44.7	82.9#
83	12.3	60.2	111.8#
85	0.0	39.3	73.1#



#51
Chlorobenzene
Concen: 0.791 ug/L
RT: 9.446 min Scan# 2521
Delta R.T. -0.003 min
Lab File: VU046139.D
Acq: 07 Dec 2021 14:40

Tgt Ion	Ratio	Lower	Upper
112	100		
114	34.2	22.2	41.2
77	66.5	47.4	71.0

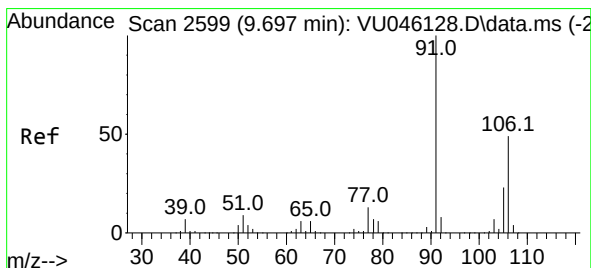
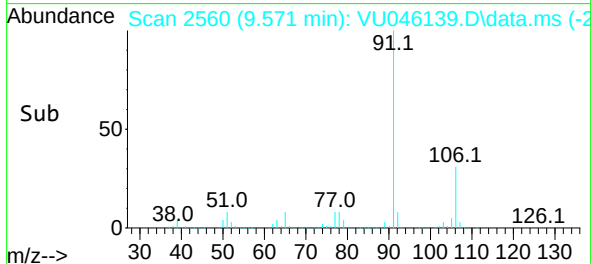
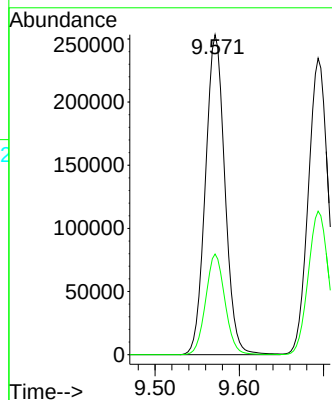
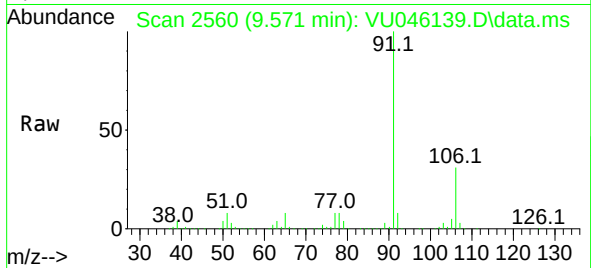




#52
Ethylbenzene
Concen: 51.068 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.003 min
Lab File: VU046139.D
Acq: 07 Dec 2021 14:40

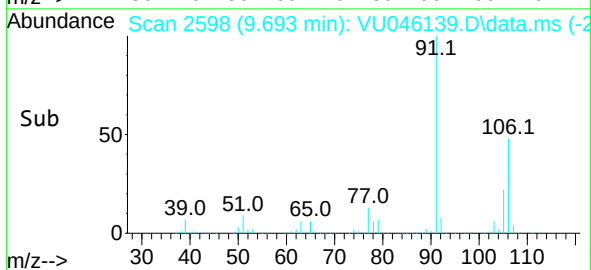
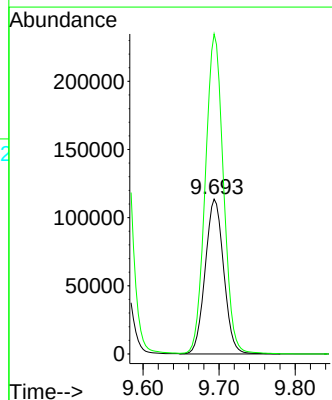
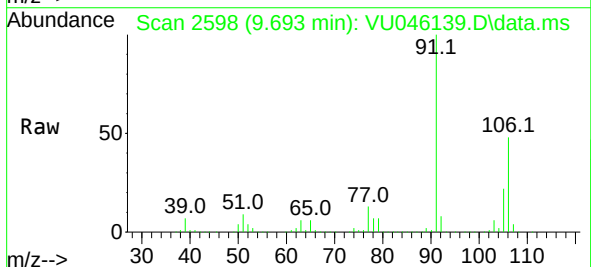
Instrument :
MSVOA_U
ClientSampleId :

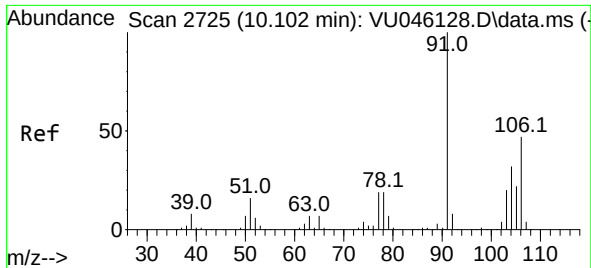
Tgt Ion: 91 Resp: 407143
Ion Ratio Lower Upper
91 100
106 31.4 21.1 39.3



#53
m,p-Xylene
Concen: 61.764 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. -0.003 min
Lab File: VU046139.D
Acq: 07 Dec 2021 14:40

Tgt Ion: 106 Resp: 192034
Ion Ratio Lower Upper
106 100
91 206.5 144.3 268.1

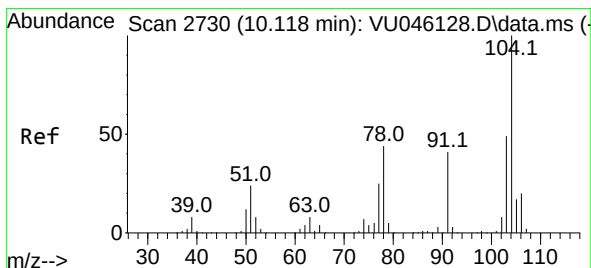
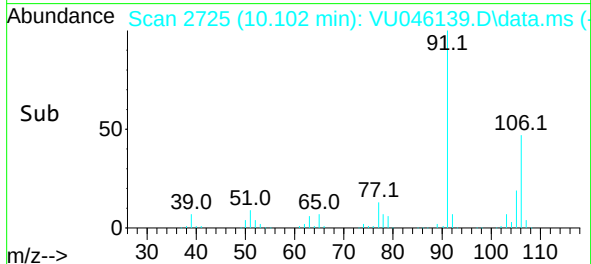
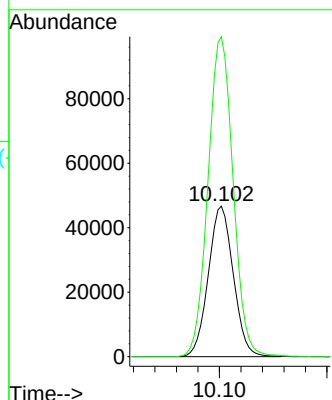
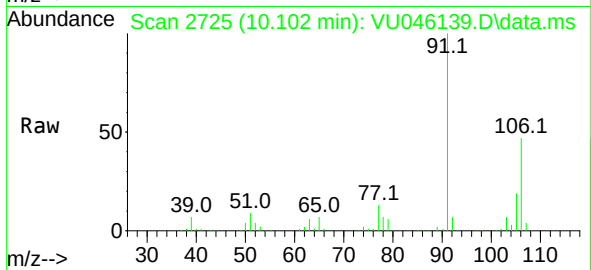




#54
o-xylene
Concen: 24.986 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU046139.D
Acq: 07 Dec 2021 14:40

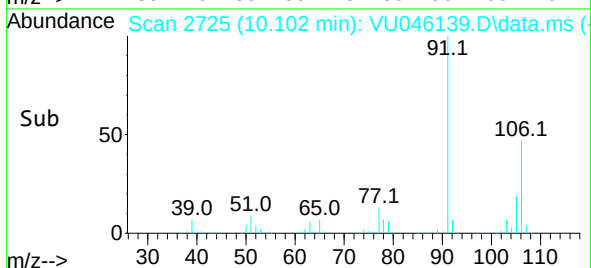
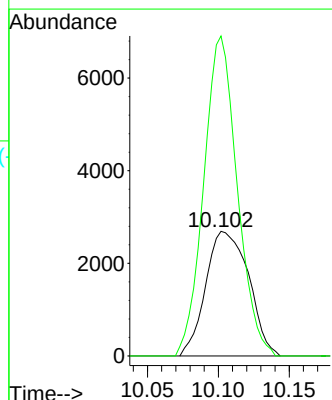
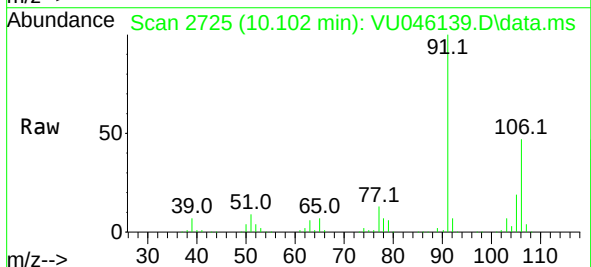
Instrument :
MSVOA_U
ClientSampleId :

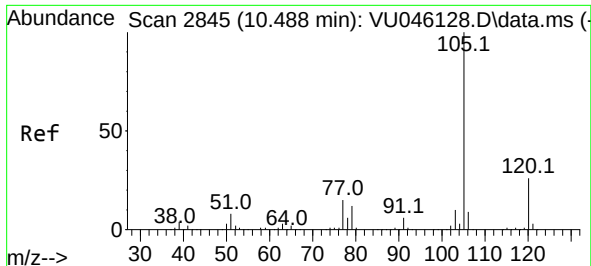
Tgt Ion:106 Resp: 75380
Ion Ratio Lower Upper
106 100
91 212.4 154.2 286.4



#55
Styrene
Concen: 1.100 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.016 min
Lab File: VU046139.D
Acq: 07 Dec 2021 14:40

Tgt Ion:104 Resp: 5664
Ion Ratio Lower Upper
104 100
78 256.8 32.6 60.5#

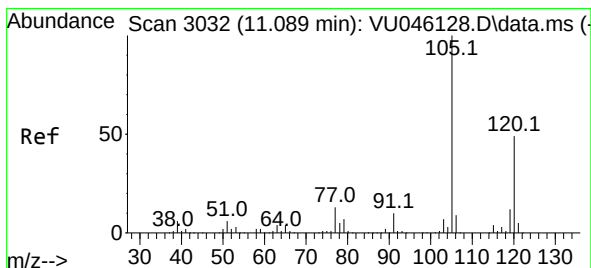
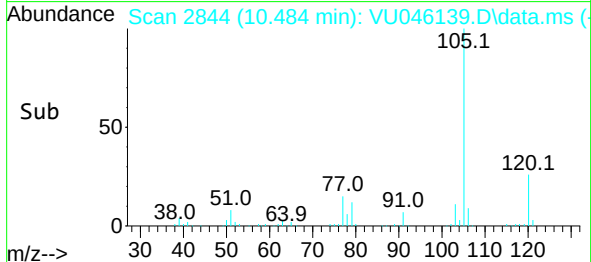
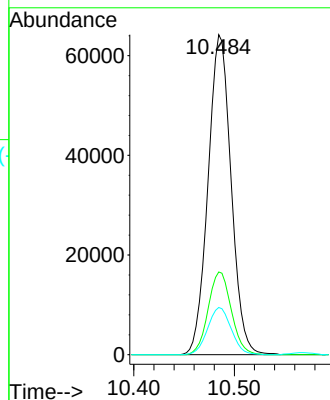
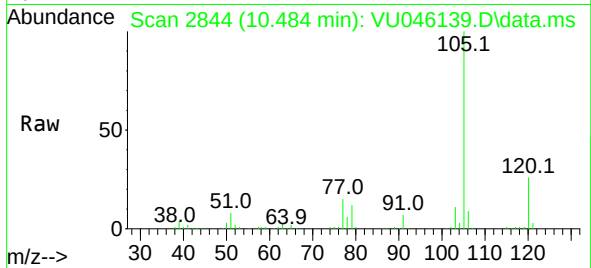




#61
Isopropylbenzene
Concen: 12.617 ug/L
RT: 10.484 min Scan# 2845
Delta R.T. -0.003 min
Lab File: VU046139.D
Acq: 07 Dec 2021 14:40

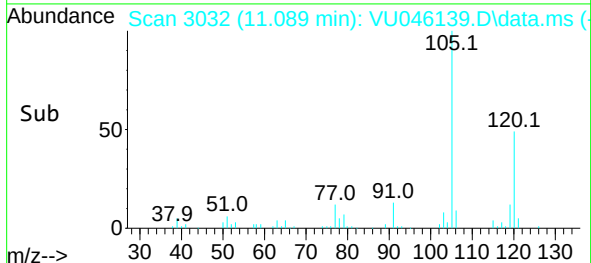
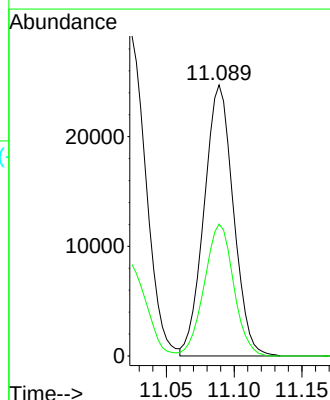
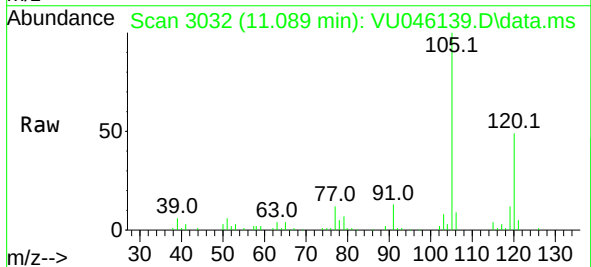
Instrument : MSVOA_U
ClientSampleId :

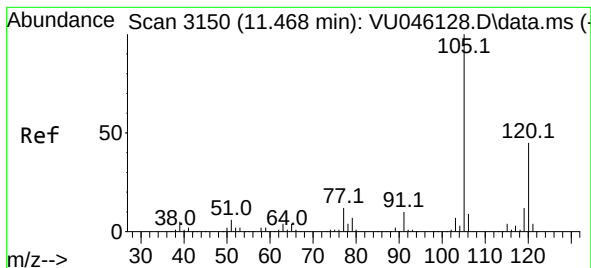
Tgt Ion:105 Resp: 102371
Ion Ratio Lower Upper
105 100
120 25.9 20.7 31.1
77 15.0 12.2 18.4



#62
1,3,5-Trimethylbenzene
Concen: 5.489 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.003 min
Lab File: VU046139.D
Acq: 07 Dec 2021 14:40

Tgt Ion:105 Resp: 37125
Ion Ratio Lower Upper
105 100
120 48.7 37.8 56.6





#63

1,2,4-Trimethylbenzene

Concen: 29.282 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. -0.003 min

Lab File: VU046139.D

Acq: 07 Dec 2021 14:40

Instrument :

MSVOA_U

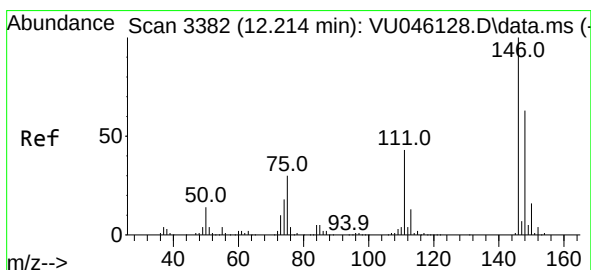
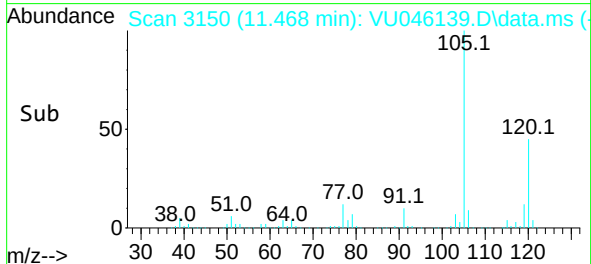
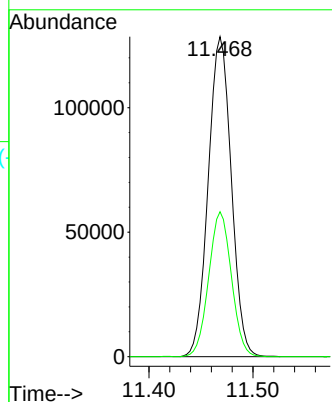
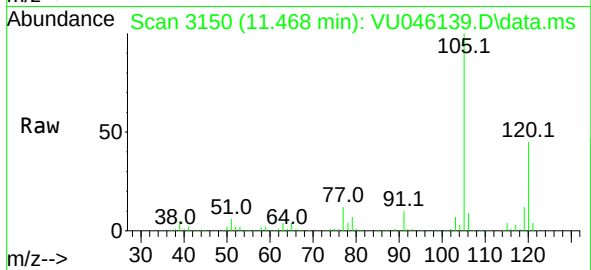
ClientSampleId :

Tgt Ion:105 Resp: 198137

Ion Ratio Lower Upper

105 100

120 44.6 35.2 52.8



#67

1,2-Dichlorobenzene

Concen: 3.888 ug/L

RT: 12.211 min Scan# 3381

Delta R.T. -0.003 min

Lab File: VU046139.D

Acq: 07 Dec 2021 14:40

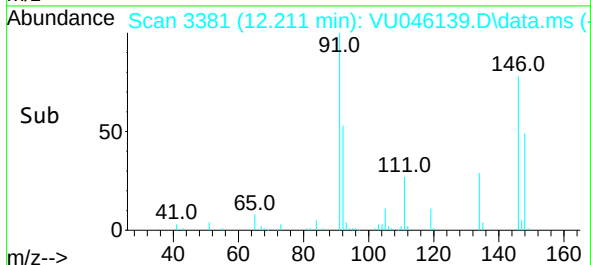
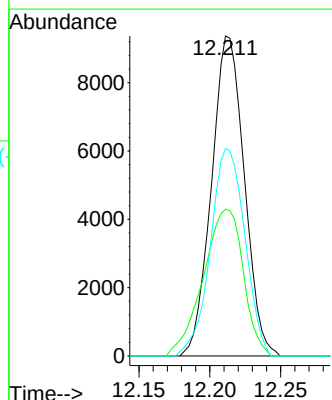
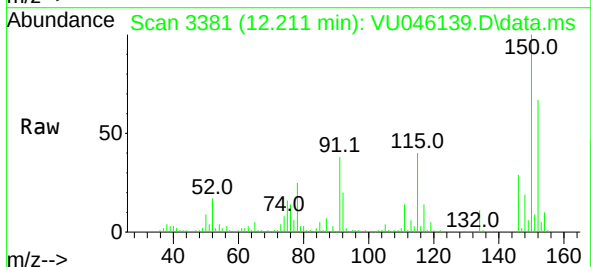
Tgt Ion:146 Resp: 15090

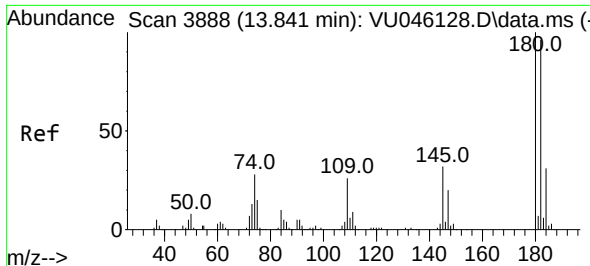
Ion Ratio Lower Upper

146 100

111 45.9 35.7 53.5

148 64.9 51.2 76.8

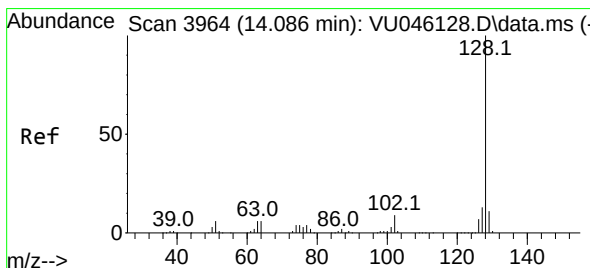
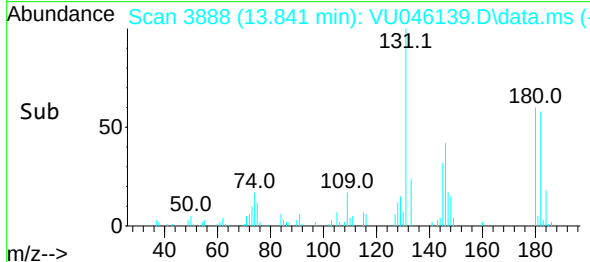
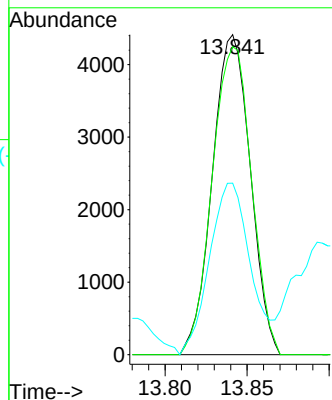
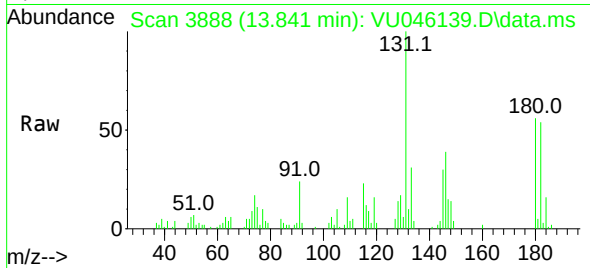




#70
1,2,4-trichlorobenzene
Concen: 2.851 ug/L
RT: 13.841 min Scan# 3888
Delta R.T. -0.000 min
Lab File: VU046139.D
Acq: 07 Dec 2021 14:40

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion:180 Resp: 7104
Ion Ratio Lower Upper
180 100
182 99.4 76.7 115.1
145 57.0 26.0 39.0#



#71
Naphthalene
Concen: 54.145 ug/L
RT: 14.086 min Scan# 3964
Delta R.T. -0.003 min
Lab File: VU046139.D
Acq: 07 Dec 2021 14:40

Tgt Ion:128 Resp: 469556
Ion Ratio Lower Upper
128 100
127 12.9 10.1 15.1
129 11.1 8.6 13.0

