

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100421\
 Data File : VU045108.D
 Acq On : 04 Oct 2021 19:51
 Operator : SY/MD
 Sample : M4000-08
 Misc : 5.04g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EW903

Quant Time: Oct 05 02:48:50 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Oct 05 02:41:56 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	204590	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.433	117	196033	50.000	ug/L	0.01
58) 1,4-Dichlorobenzene-d4	11.822	152	103080	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	158380	70.716	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	141.440%#
7) Chloroethane-d5	1.893	69	61076	34.413	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	68.820%#
11) 1,1-Dichloroethene-d2	2.533	63	238311	63.361	ug/L	-0.04
Spiked Amount	50.000	Range	60 - 125	Recovery	=	126.720%#
21) 2-Butanone-d5	4.645	46	441750	249.489	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	249.490%#
24) Chloroform-d	5.067	84	348399	98.493	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	196.980%#
26) 1,2-Dichloroethane-d4	5.703	65	247362	103.238	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	206.480%#
32) Benzene-d6	5.726	84	696404	102.378	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	204.760%#
36) 1,2-Dichloropropane-d6	6.694	67	241997	109.106	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	218.220%#
41) Toluene-d8	7.902	98	663945	113.103	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	226.200%#
43) trans-1,3-Dichloroprop...	8.189	79	103897	105.305	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	210.620%#
47) 2-Hexanone-d5	8.671	63	336280	273.588	ug/L	0.04
Spiked Amount	100.000	Range	45 - 130	Recovery	=	273.590%#
56) 1,1,2,2-Tetrachloroeth...	10.771	84	471399	136.486	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	272.980%#
66) 1,2-Dichlorobenzene-d4	12.201	152	253691	113.088	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	226.180%#
Target Compounds						Qvalue
3) Chloromethane	1.514	50	2135	0.874	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.536	101	2023	1.171	ug/L #	22
12) 1,1-Dichloroethene	2.536	96	1572	0.992	ug/L #	1
15) Methyl Acetate	2.935	43	5552	2.199	ug/L #	59
25) Chloroform	5.102	83	5539	1.605	ug/L	80
29) Cyclohexane	5.372	56	427265	145.001	ug/L	88
33) Benzene	5.771	78	4446	0.611	ug/L	100
34) Trichloroethene	6.568	95	5179	2.966	ug/L #	19
35) Methylcyclohexane	6.761	83	1841794	629.935	ug/L	95
37) 1,2-Dichloropropane	6.758	63	15640	7.901	ug/L #	1
38) Bromodichloromethane	7.073	83	25097	10.343	ug/L #	73
39) cis-1,3-Dichloropropene	7.571	75	6996	2.470	ug/L #	1
40) 4-Methyl-2-pentanone	7.758	43	16119	4.874	ug/L #	46
42) Toluene	7.976	91	39649	5.367	ug/L	99
44) trans-1,3-Dichloropropene	8.189	75	5577	2.071	ug/L #	1
45) 1,1,2-Trichloroethane	8.372	97	436591	243.359	ug/L #	18
46) Tetrachloroethene	8.558	164	1302	1.043	ug/L	88
48) 2-Hexanone	8.639	43	1495387	509.941	ug/L #	25
50) 1,2-Dibromoethane	8.954	107	2191	1.166	ug/L #	1

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

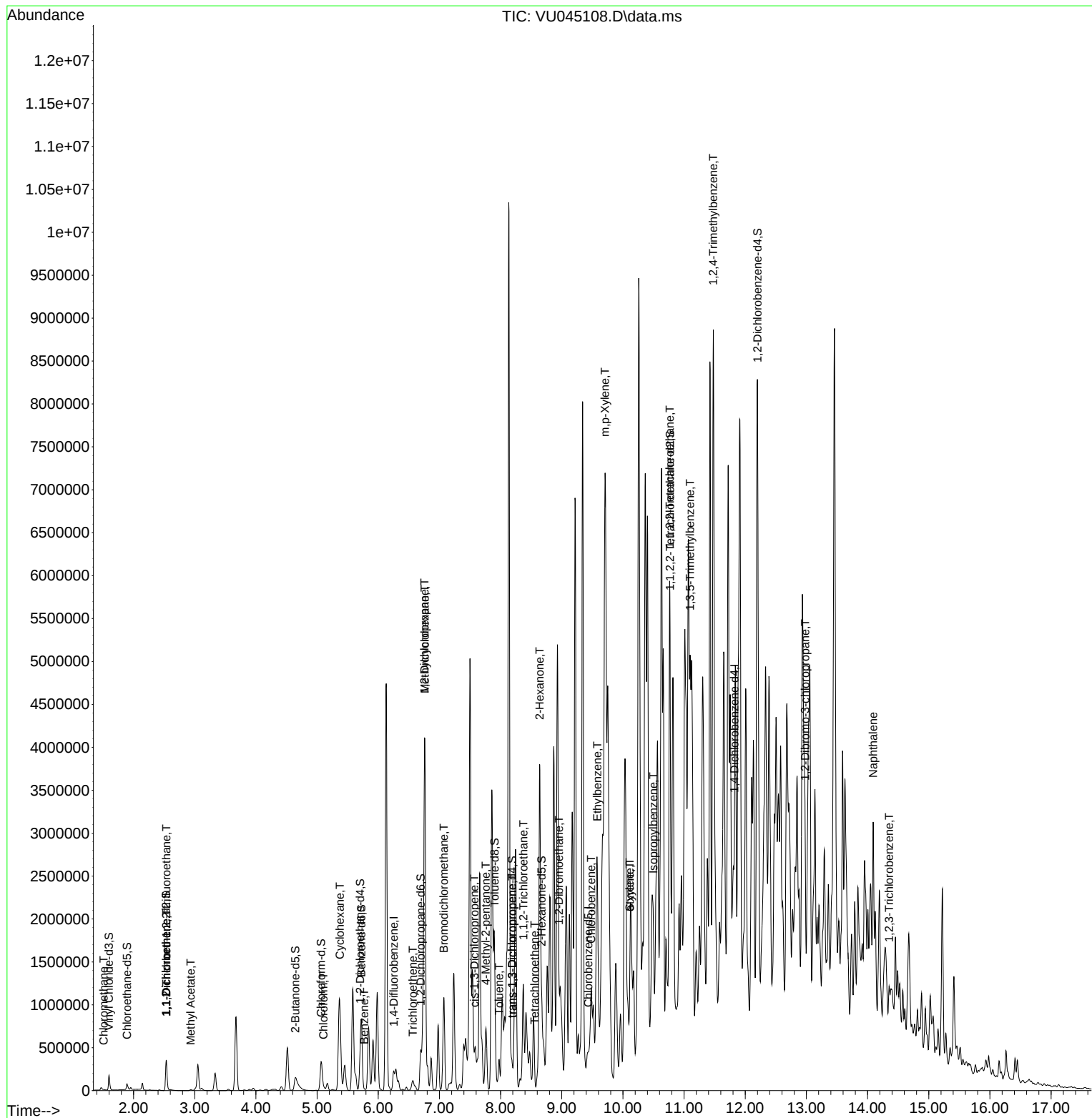
51) Chlorobenzene	9.481	112	2957	0.648	ug/L #	1
52) Ethylbenzene	9.581	91	1304728	167.184	ug/L	99
53) m,p-Xylene	9.706	106	1662034	562.184	ug/L	99
54) o-xylene	10.115	106	69100	23.786	ug/L	94
55) Styrene	10.115	104	4424	0.886	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.767	83	99767	29.043	ug/L #	73
61) Isopropylbenzene	10.497	105	557677	73.925	ug/L	98
62) 1,3,5-Trimethylbenzene	11.099	105	1514981	240.468	ug/L	99
63) 1,2,4-Trimethylbenzene	11.478	105	3595010	557.240	ug/L	100
68) 1,2-Dibromo-3-chloropr...	12.979	75	7109	8.677	ug/L #	22
71) Naphthalene	14.092	128	1423882	204.373	ug/L	97
72) 1,2,3-Trichlorobenzene	14.352	180	9230	4.487	ug/L #	1

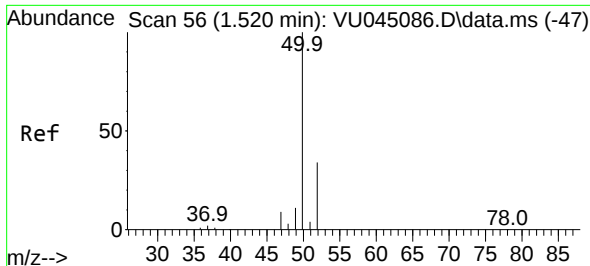
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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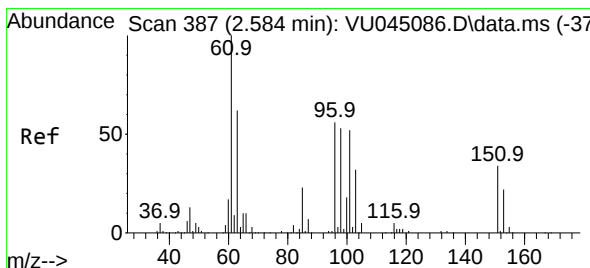
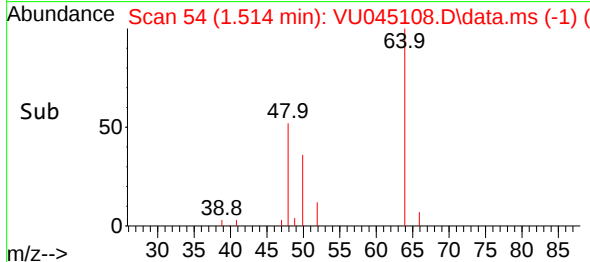
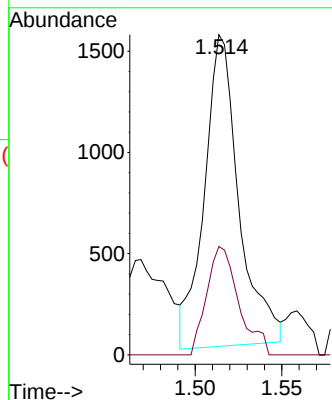
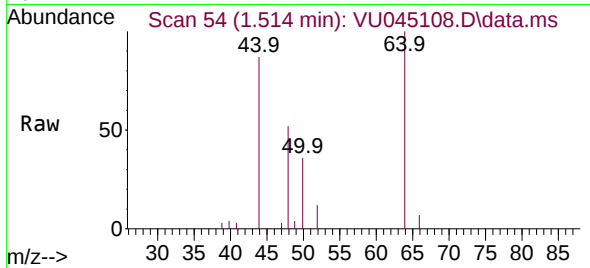




#3
Chloromethane
Concen: 0.874 ug/L
RT: 1.514 min Scan# 54
Delta R.T. -0.006 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

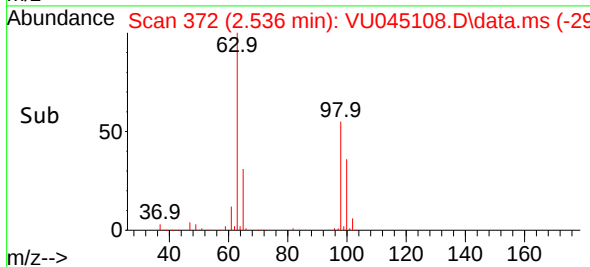
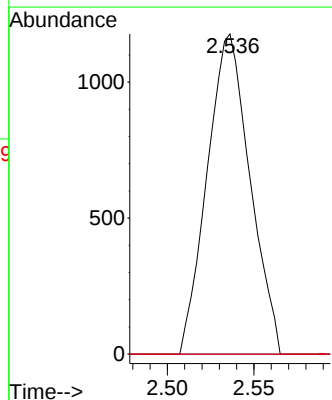
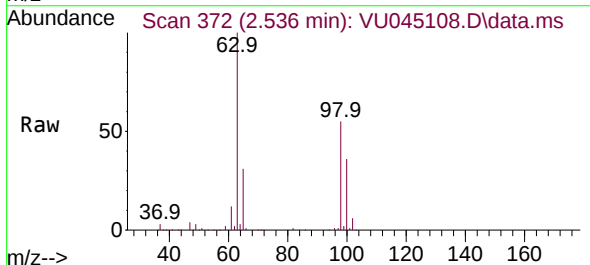
Instrument :
MSVOA_U
ClientSampleId :
EW903

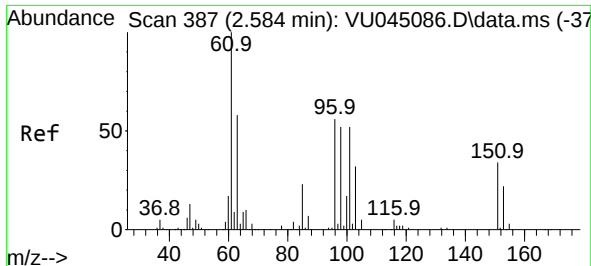
Tgt Ion: 50 Resp: 2135
Ion Ratio Lower Upper
50 100
52 33.8 23.0 42.8



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 1.171 ug/L
RT: 2.536 min Scan# 372
Delta R.T. -0.048 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

Tgt Ion: 101 Resp: 2023
Ion Ratio Lower Upper
101 100
85 0.0 36.4 54.6#
151 0.0 54.4 81.6#





#12

1,1-Dichloroethene

Concen: 0.992 ug/L

RT: 2.536 min Scan# 372

Delta R.T. -0.048 min

Lab File: VU045108.D

Acq: 04 Oct 2021 19:51

Tgt Ion: 96 Resp: 1572

Ion Ratio Lower Upper

96 100

61 1718.4 131.3 243.9#

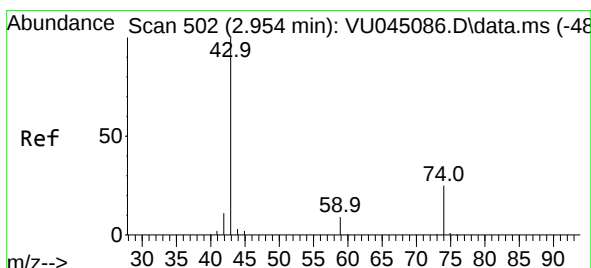
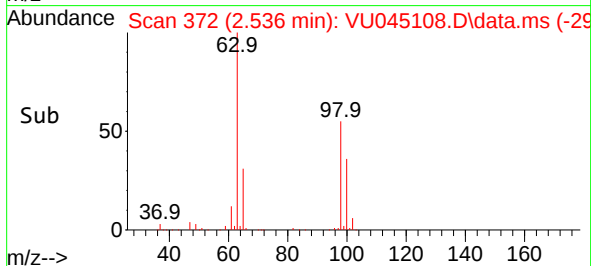
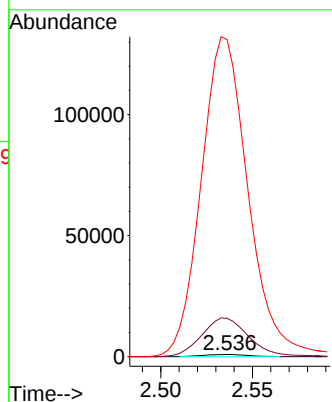
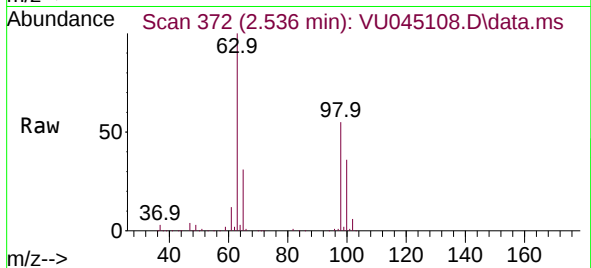
63 14186.8 102.5 190.3#

Instrument :

MSVOA_U

ClientSampled :

EW903



#15

Methyl Acetate

Concen: 2.199 ug/L

RT: 2.935 min Scan# 496

Delta R.T. -0.019 min

Lab File: VU045108.D

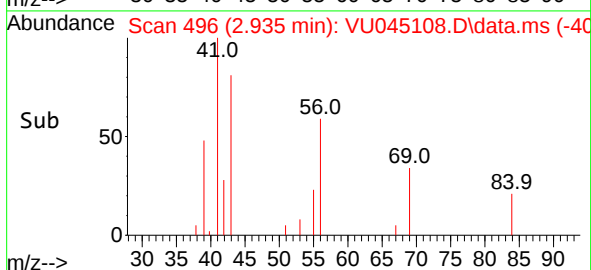
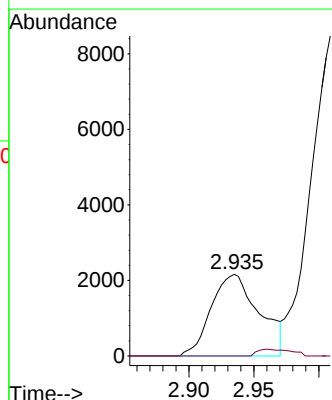
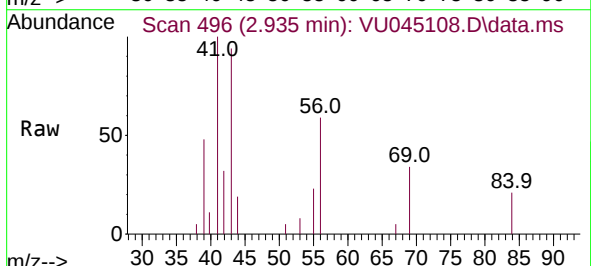
Acq: 04 Oct 2021 19:51

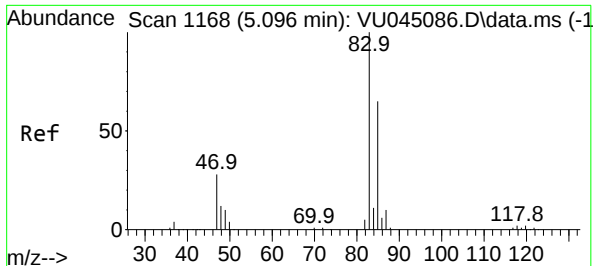
Tgt Ion: 43 Resp: 5552

Ion Ratio Lower Upper

43 100

74 3.2 18.4 27.6#



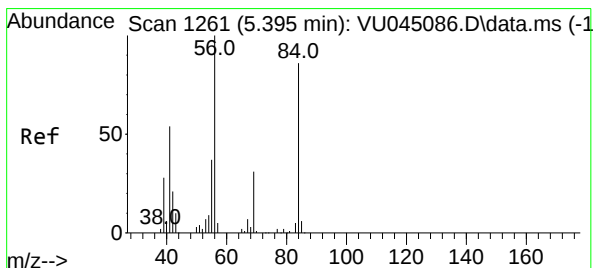
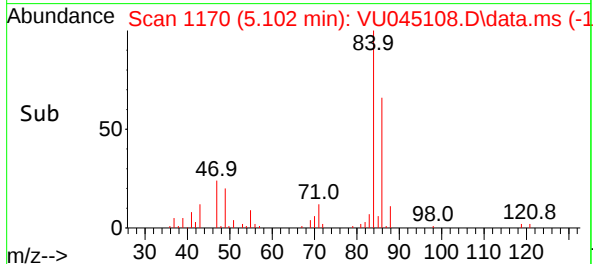
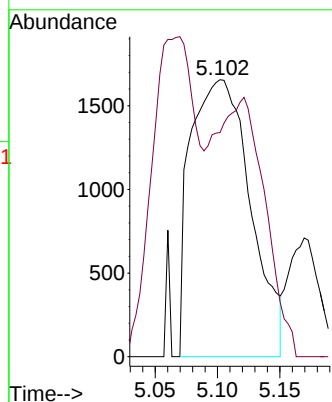
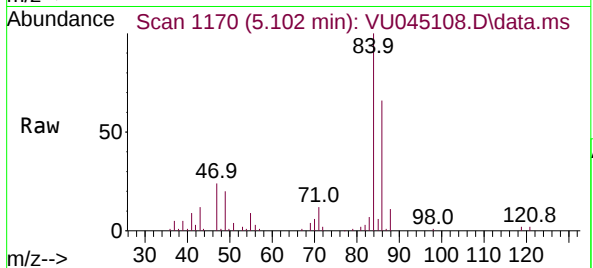


#25

Chloroform
Concen: 1.605 ug/L
RT: 5.102 min Scan# 1170
Delta R.T. 0.006 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

Instrument :
MSVOA_U
ClientSampled :
EW903

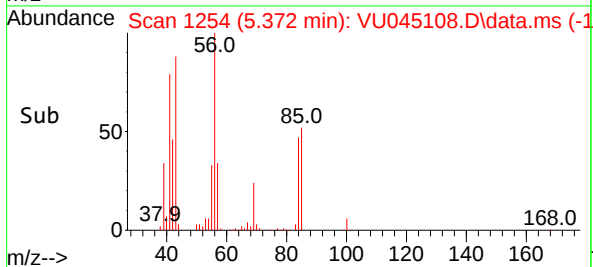
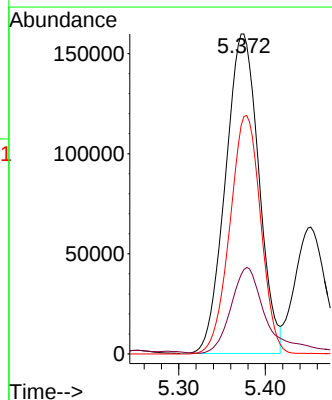
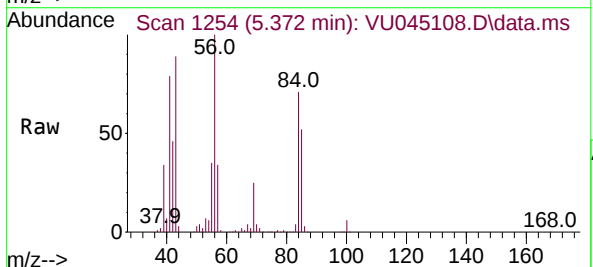
Tgt Ion: 83 Resp: 5539
Ion Ratio Lower Upper
83 100
85 80.9 45.6 84.6

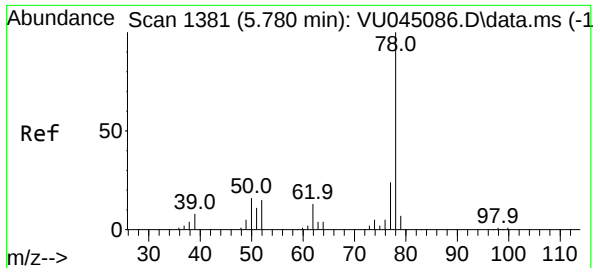


#29

Cyclohexane
Concen: 145.001 ug/L
RT: 5.372 min Scan# 1254
Delta R.T. -0.023 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

Tgt Ion: 56 Resp: 427265
Ion Ratio Lower Upper
56 100
69 29.6 23.8 35.8
84 68.9 66.8 100.2

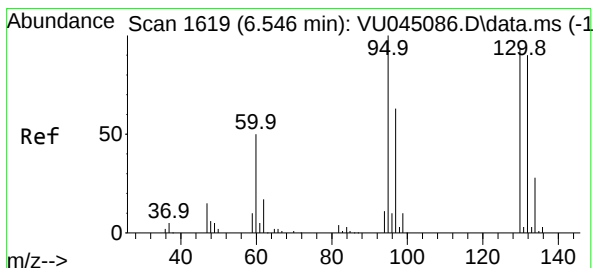
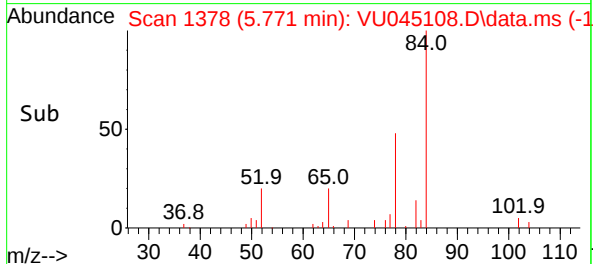
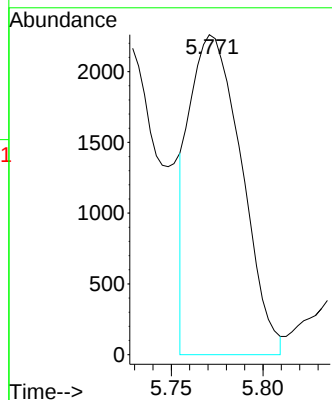
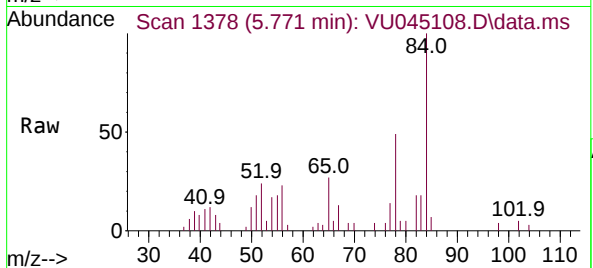




#33
Benzene
Concen: 0.611 ug/L
RT: 5.771 min Scan# 1378
Delta R.T. -0.010 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

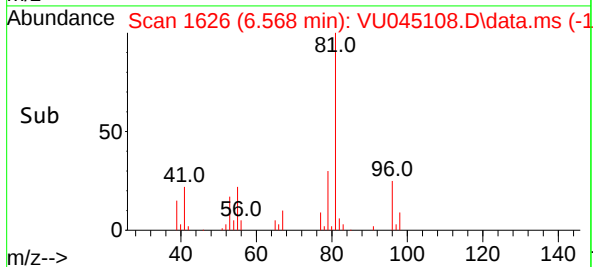
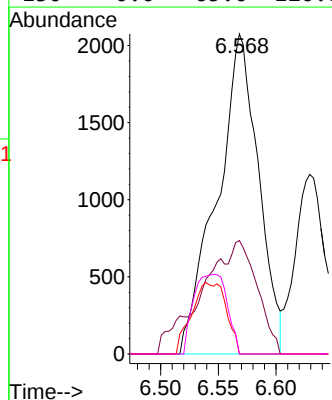
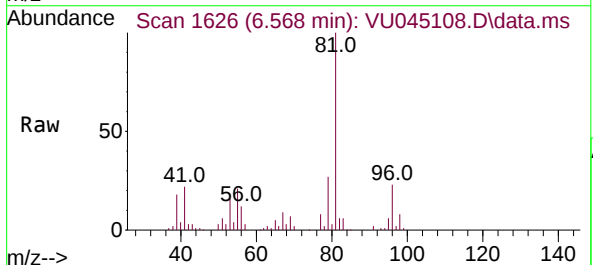
Instrument :
MSVOA_U
ClientSampled :
EW903

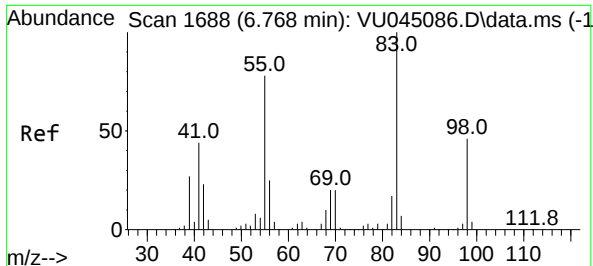
Tgt Ion: 78 Resp: 4446



#34
Trichloroethene
Concen: 2.966 ug/L
RT: 6.568 min Scan# 1626
Delta R.T. 0.022 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

Tgt Ion: 95 Resp: 5179
Ion Ratio Lower Upper
95 100
97 35.5 44.4 82.4#
132 0.0 62.9 116.9#
130 0.0 65.0 120.8#





#35

Methylcyclohexane

Concen: 629.935 ug/L

RT: 6.761 min Scan# 1686

Delta R.T. -0.006 min

Lab File: VU045108.D

Acq: 04 Oct 2021 19:51

Instrument :

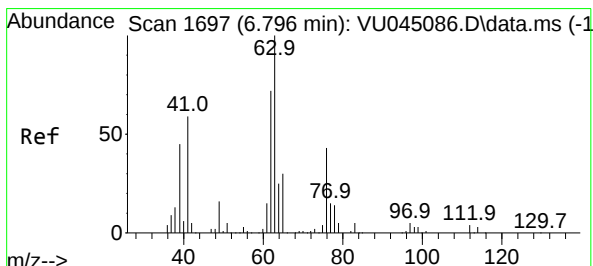
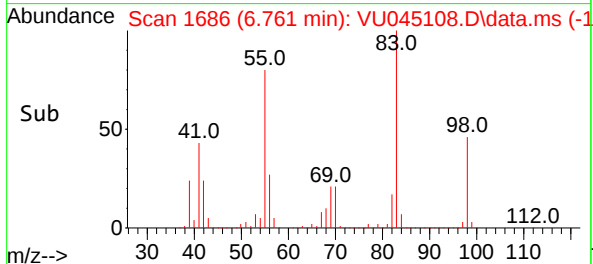
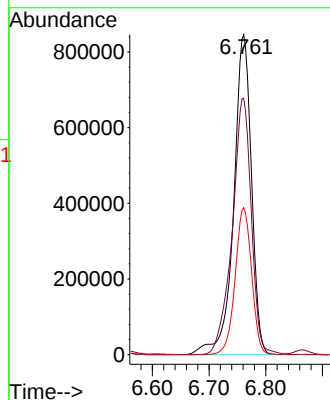
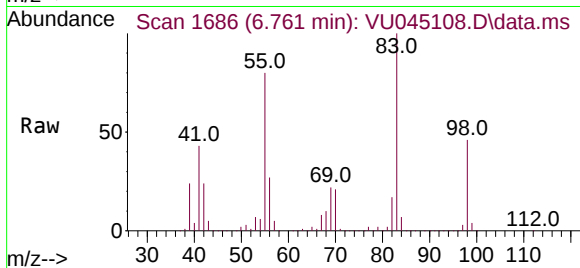
MSVOA_U

ClientSampleId :

EW903

Tgt Ion: 83 Resp: 1841794

Ion	Ratio	Lower	Upper
83	100		
55	85.9	65.8	98.6
98	42.6	37.1	55.7



#37

1,2-Dichloropropane

Concen: 7.901 ug/L

RT: 6.758 min Scan# 1685

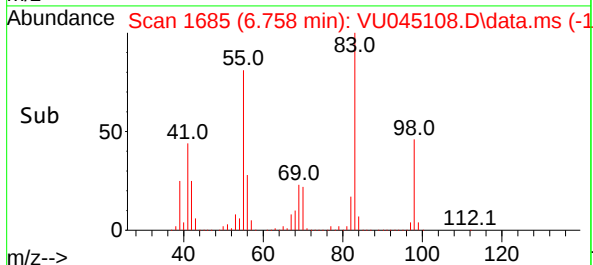
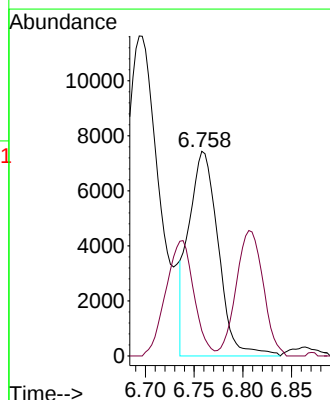
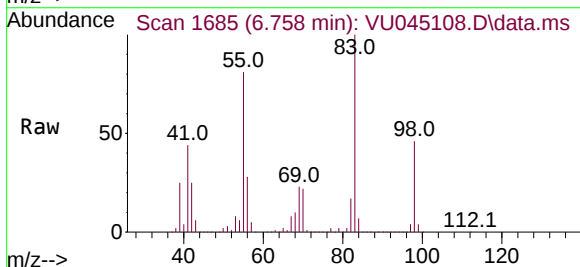
Delta R.T. -0.039 min

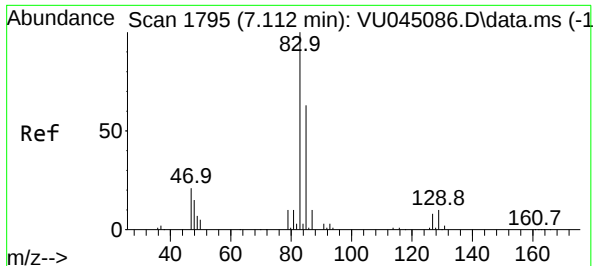
Lab File: VU045108.D

Acq: 04 Oct 2021 19:51

Tgt Ion: 63 Resp: 15640

Ion	Ratio	Lower	Upper
63	100		
112	53.6	3.2	4.8#

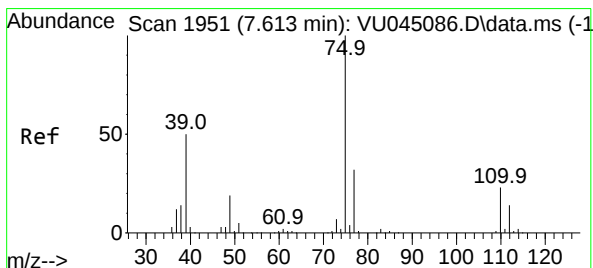
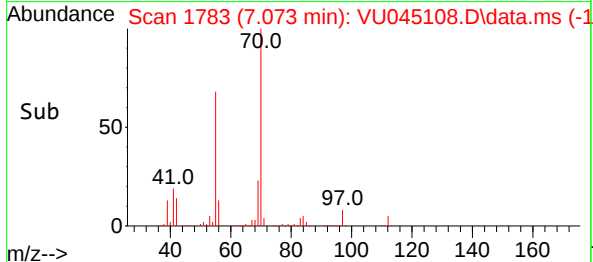
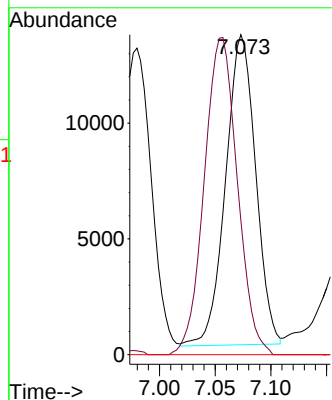
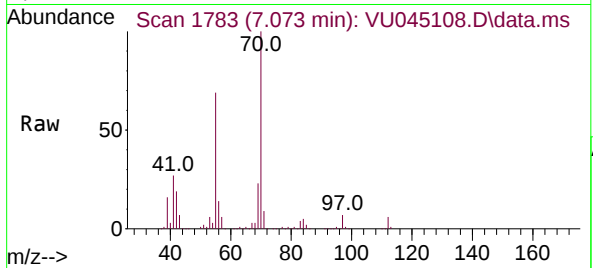




#38
Bromodichloromethane
Concen: 10.343 ug/L
RT: 7.073 min Scan# 1783
Delta R.T. -0.039 min
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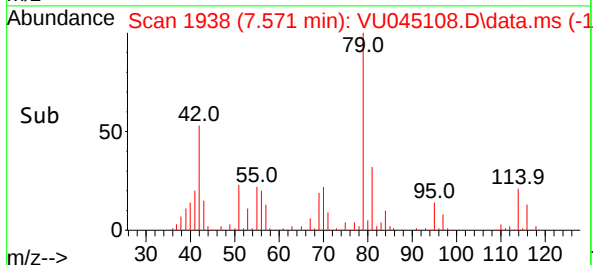
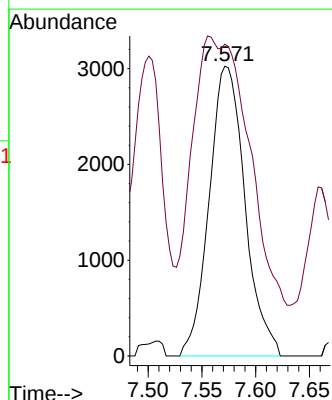
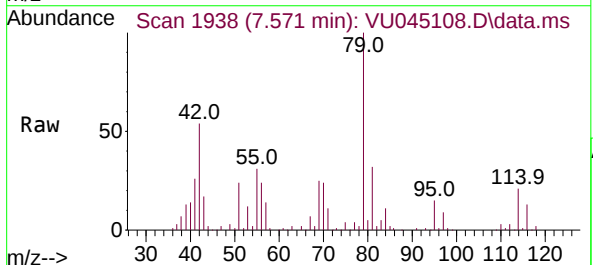
Instrument :
MSVOA_U
ClientSampled :
EW903

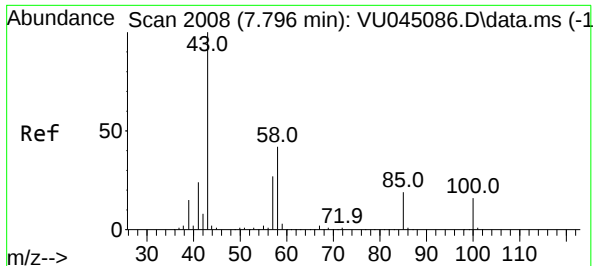
Tgt Ion: 83 Resp: 25097
Ion Ratio Lower Upper
83 100
85 42.0 44.6 82.8#
127 0.0 6.2 9.2#



#39
cis-1,3-Dichloropropene
Concen: 2.470 ug/L
RT: 7.571 min Scan# 1938
Delta R.T. -0.042 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

Tgt Ion: 75 Resp: 6996
Ion Ratio Lower Upper
75 100
77 107.6 22.4 41.6#

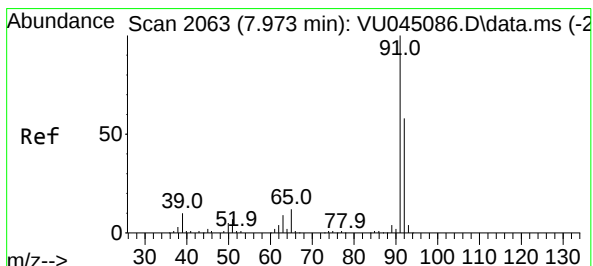
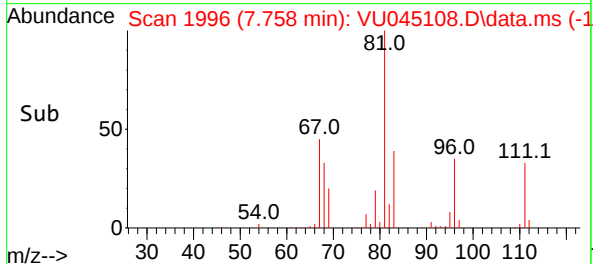
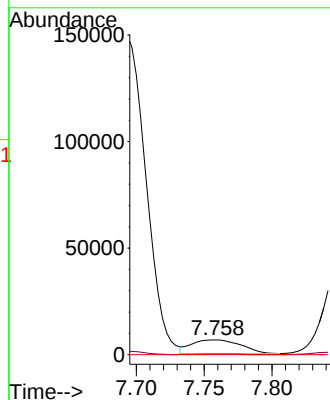
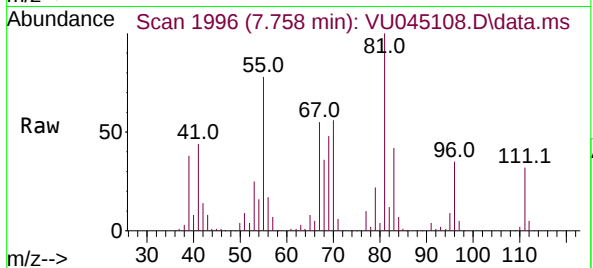




#40
4-Methyl-2-pentanone
Concen: 4.874 ug/L
RT: 7.758 min Scan# 1996
Delta R.T. -0.039 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

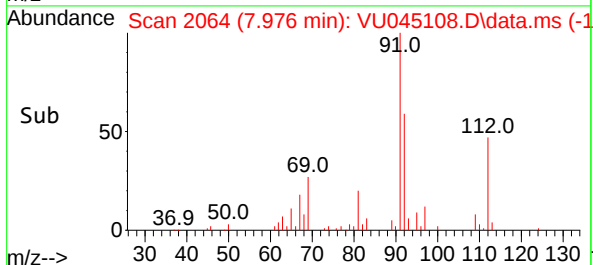
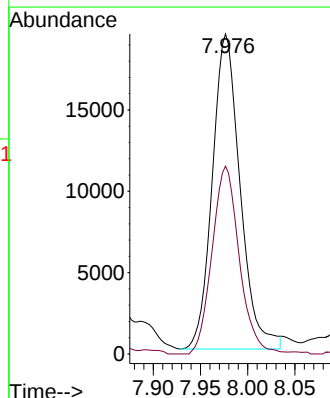
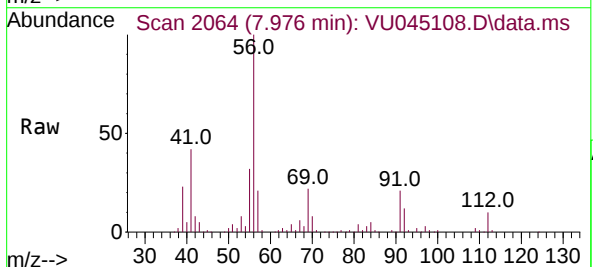
Instrument :
MSVOA_U
ClientSampleId :
EW903

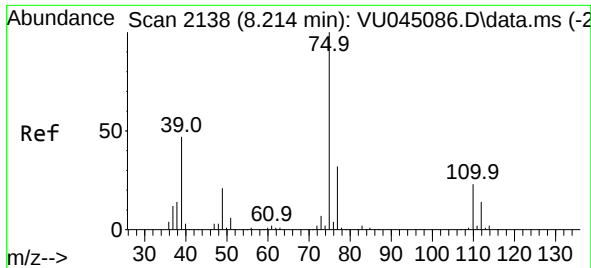
Tgt Ion: 43 Resp: 16119
Ion Ratio Lower Upper
43 100
58 2.7 31.8 47.8#
100 0.0 11.8 17.6#



#42
Toluene
Concen: 5.367 ug/L
RT: 7.976 min Scan# 2064
Delta R.T. 0.003 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

Tgt Ion: 91 Resp: 39649
Ion Ratio Lower Upper
91 100
92 58.7 40.5 75.1

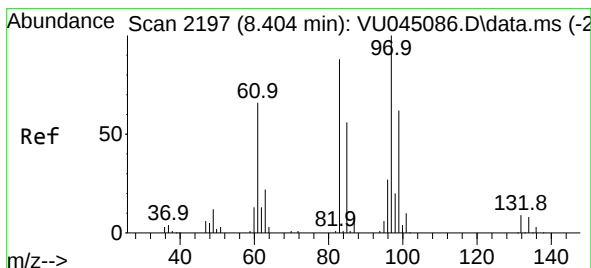
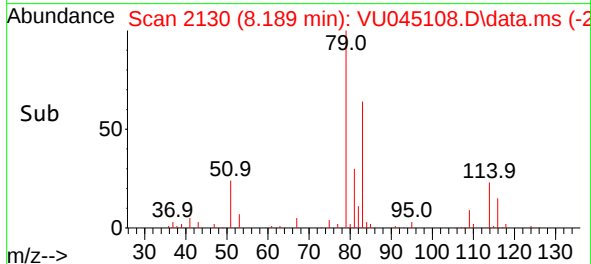
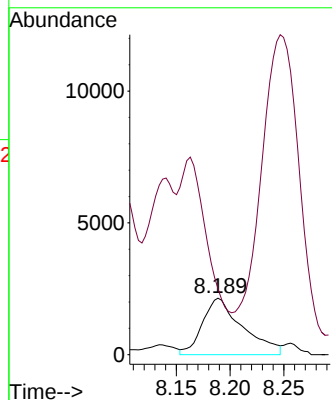
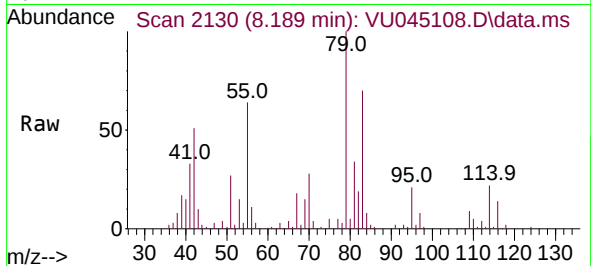




#44
trans-1,3-Dichloropropene
Concen: 2.071 ug/L
RT: 8.189 min Scan# 2130
Delta R.T. -0.026 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

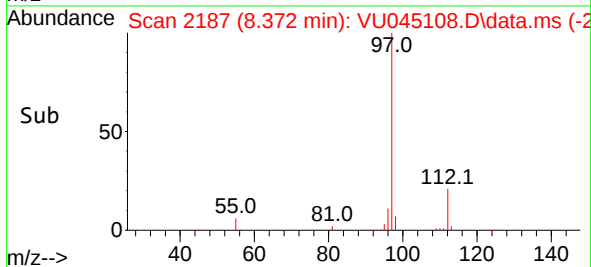
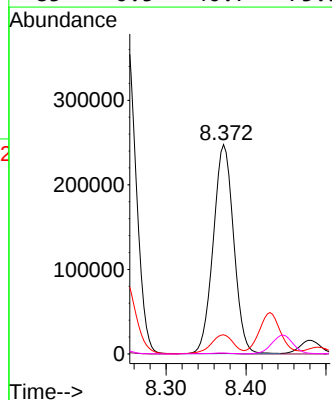
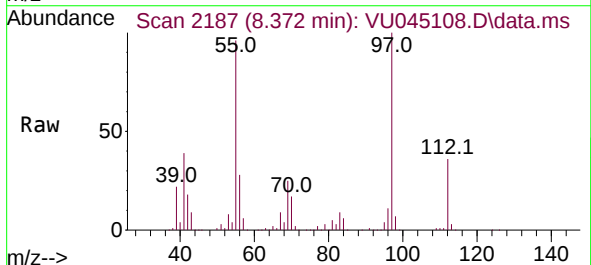
Instrument :
MSVOA_U
ClientSampled :
EW903

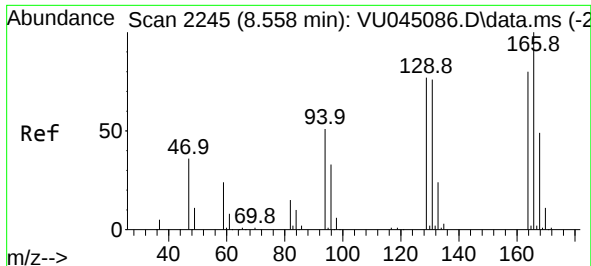
Tgt Ion: 75 Resp: 5577
Ion Ratio Lower Upper
75 100
77 117.1 21.7 40.3#



#45
1,1,2-Trichloroethane
Concen: 243.359 ug/L
RT: 8.372 min Scan# 2187
Delta R.T. -0.032 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

Tgt Ion: 97 Resp: 436591
Ion Ratio Lower Upper
97 100
99 0.3 43.7 81.1#
83 9.1 61.9 115.1#
85 0.5 40.7 75.5#



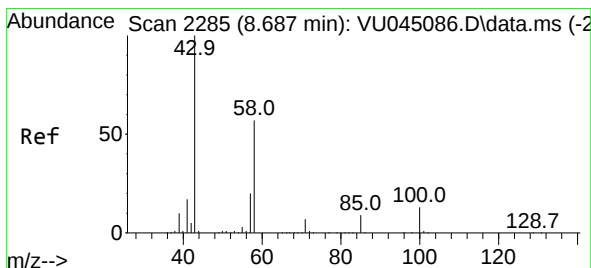
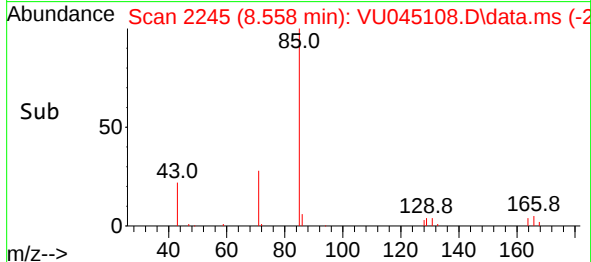
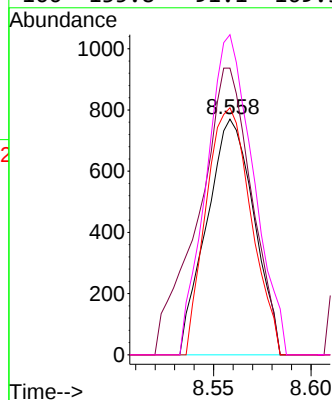
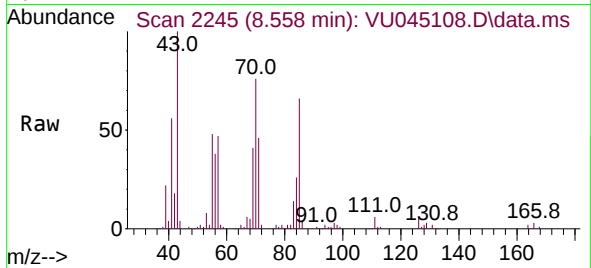


#46
Tetrachloroethene
Concen: 1.043 ug/L
RT: 8.558 min Scan# 2245
Delta R.T. -0.000 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

Instrument :
MSVOA_U
ClientSampleId :
EW903

Tgt Ion:164 Resp: 1302

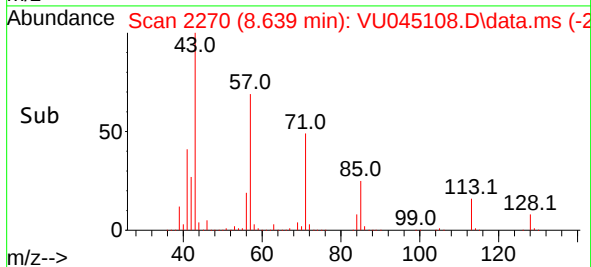
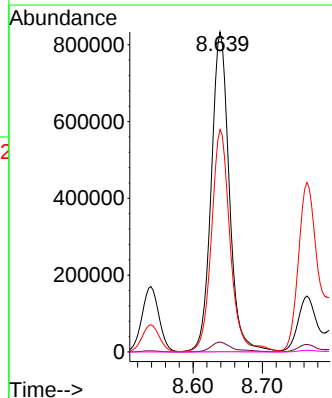
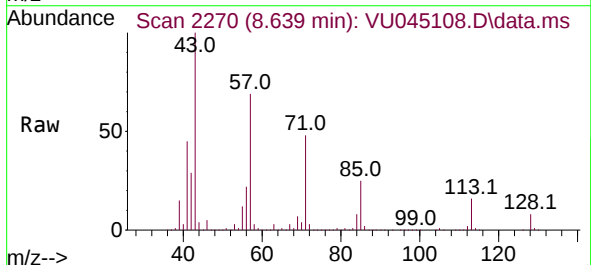
Ion	Ratio	Lower	Upper
164	100		
129	121.7	69.8	129.6
131	104.8	66.4	123.2
166	135.8	91.1	169.3

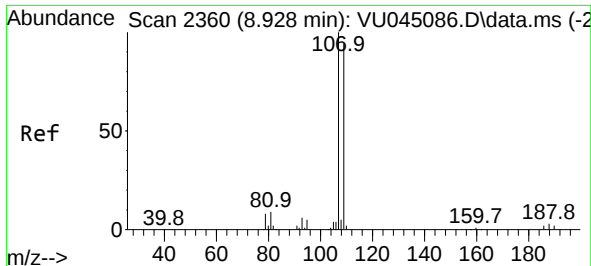


#48
2-Hexanone
Concen: 509.941 ug/L
RT: 8.639 min Scan# 2270
Delta R.T. -0.048 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

Tgt Ion: 43 Resp: 1495387

Ion	Ratio	Lower	Upper
43	100		
58	3.8	44.9	67.3#
57	70.9	15.5	23.3#
100	0.1	9.4	14.0#

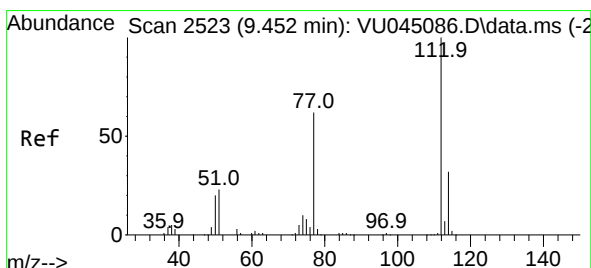
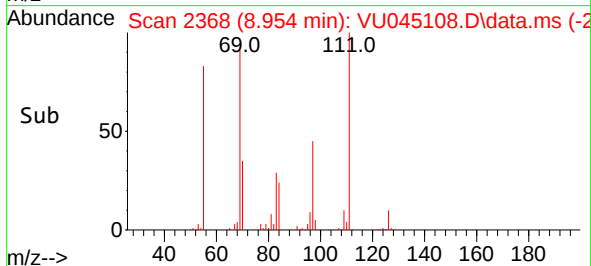
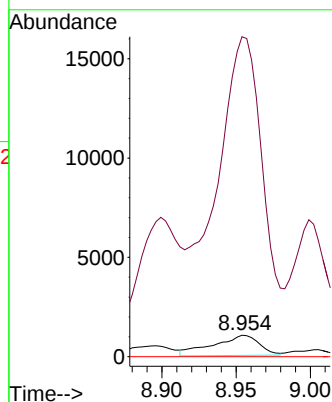
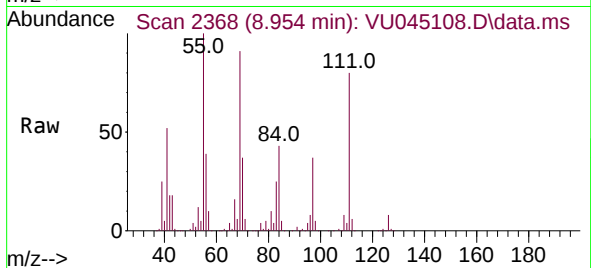




#50
1,2-Dibromoethane
Concen: 1.166 ug/L
RT: 8.954 min Scan# 2368
Delta R.T. 0.026 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

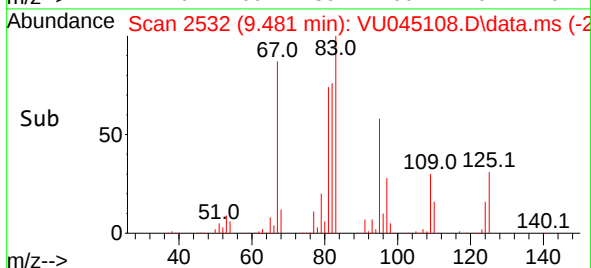
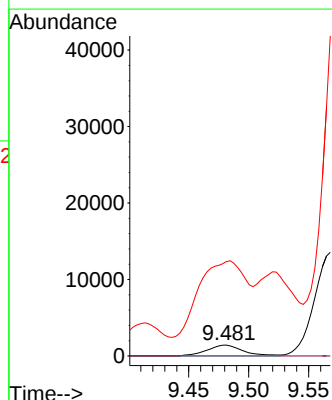
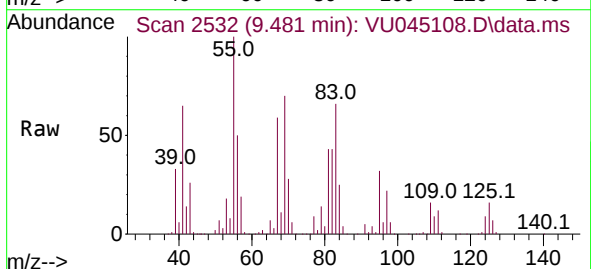
Instrument :
MSVOA_U
ClientSampleId :
EW903

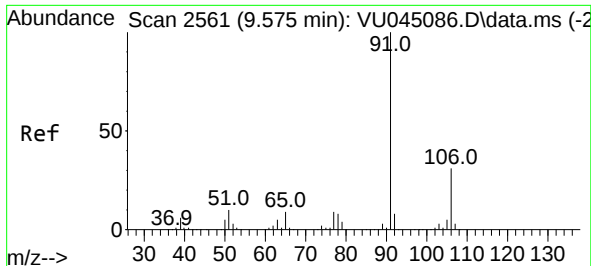
Tgt Ion:107 Resp: 2191
Ion Ratio Lower Upper
107 100
109 1494.4 65.5 121.6#
188 0.0 2.6 3.8#



#51
Chlorobenzene
Concen: 0.648 ug/L
RT: 9.481 min Scan# 2532
Delta R.T. 0.029 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

Tgt Ion:112 Resp: 2957
Ion Ratio Lower Upper
112 100
114 0.0 22.5 41.9#
77 868.7 50.6 75.8#

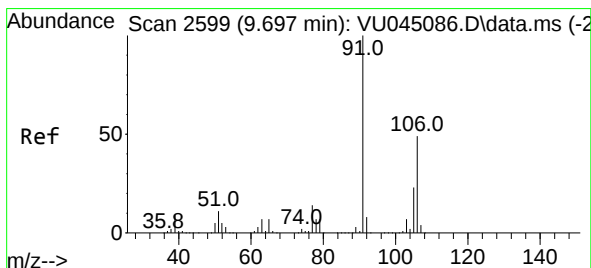
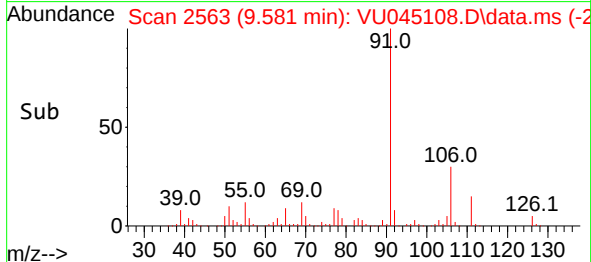
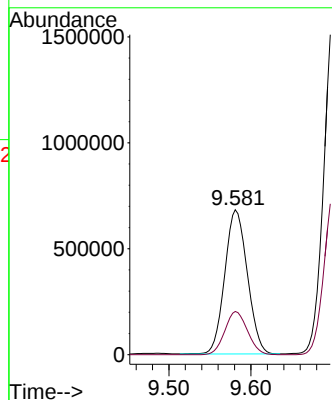
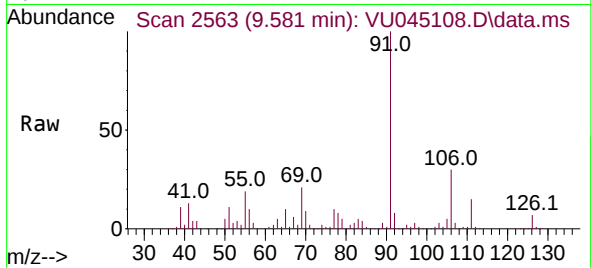




#52
Ethylbenzene
Concen: 167.184 ug/L
RT: 9.581 min Scan# 2563
Delta R.T. 0.006 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

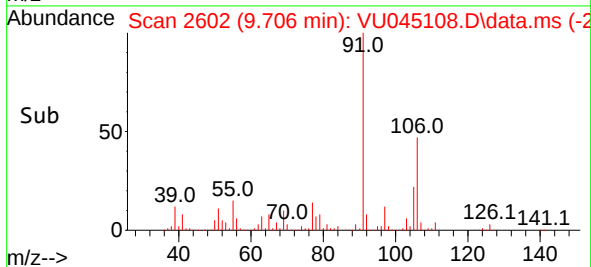
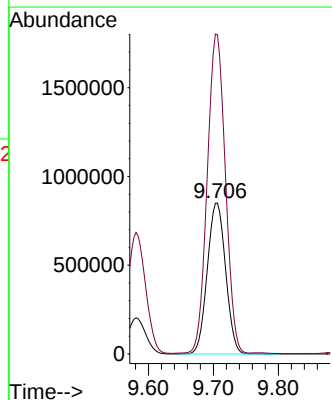
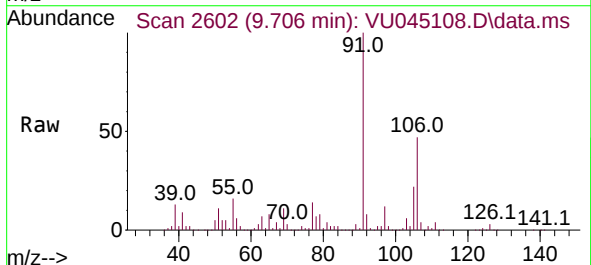
Instrument :
MSVOA_U
ClientSampleId :
EW903

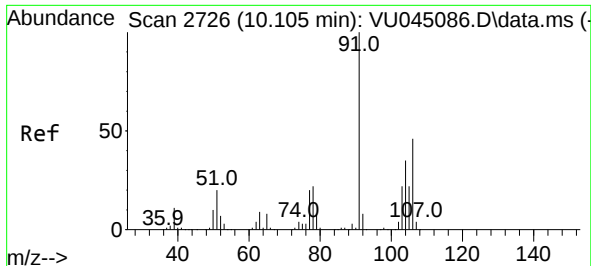
Tgt Ion: 91 Resp: 1304728
Ion Ratio Lower Upper
91 100
106 29.8 21.2 39.4



#53
m,p-Xylene
Concen: 562.184 ug/L
RT: 9.706 min Scan# 2602
Delta R.T. 0.010 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

Tgt Ion:106 Resp: 1662034
Ion Ratio Lower Upper
106 100
91 211.6 146.7 272.4

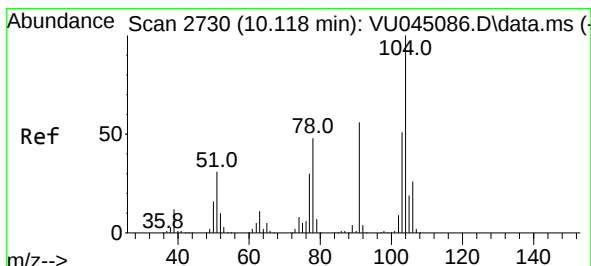
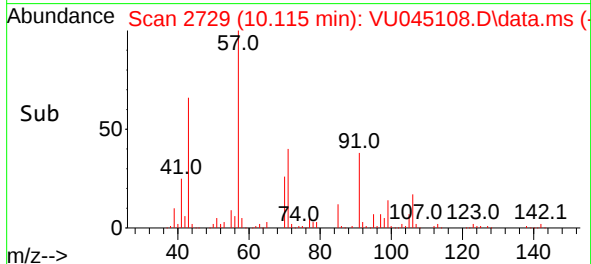
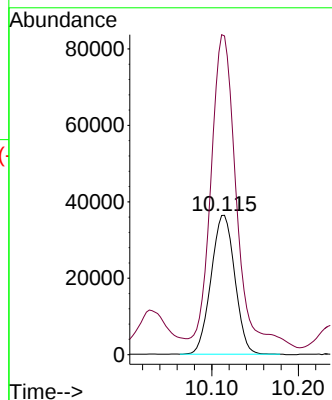
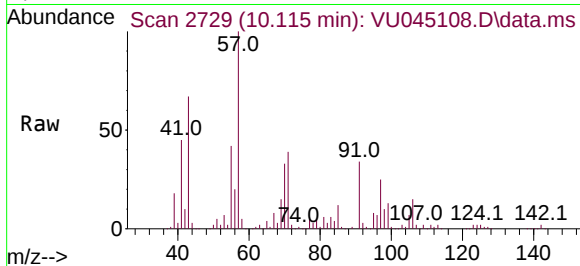




#54
o-xylene
Concen: 23.786 ug/L
RT: 10.115 min Scan# 2729
Delta R.T. 0.010 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

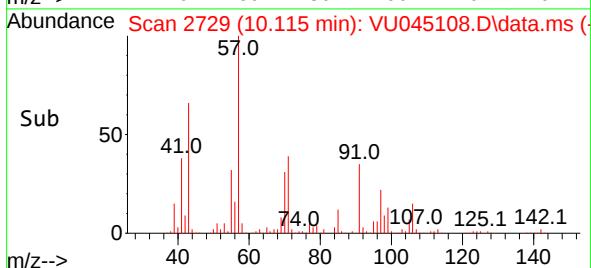
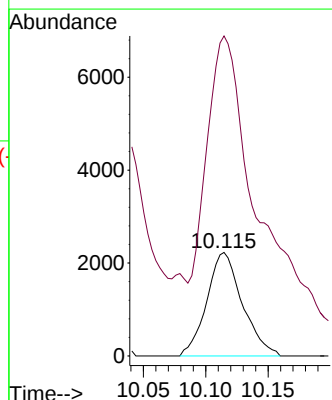
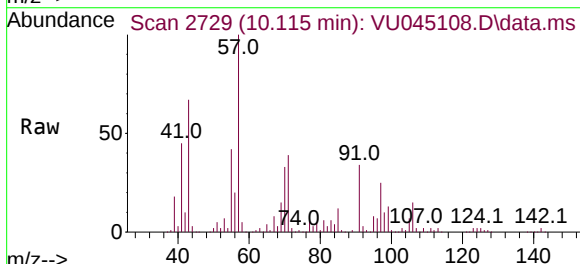
Instrument :
MSVOA_U
ClientSampleId :
EW903

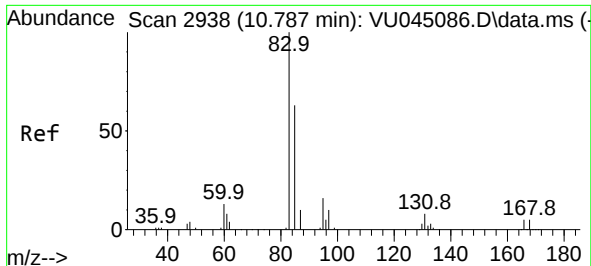
Tgt Ion:106 Resp: 69100
Ion Ratio Lower Upper
106 100
91 228.8 152.9 283.9



#55
Styrene
Concen: 0.886 ug/L
RT: 10.115 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

Tgt Ion:104 Resp: 4424
Ion Ratio Lower Upper
104 100
78 309.3 33.3 61.9#

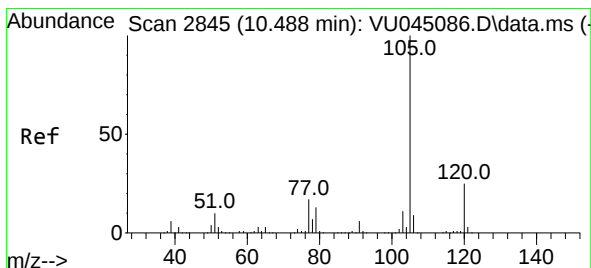
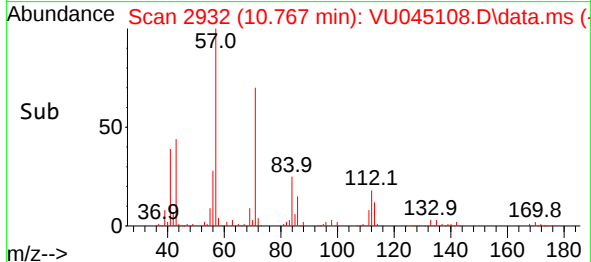
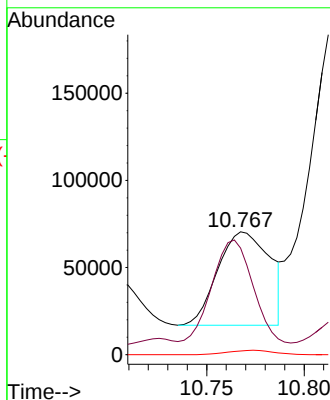
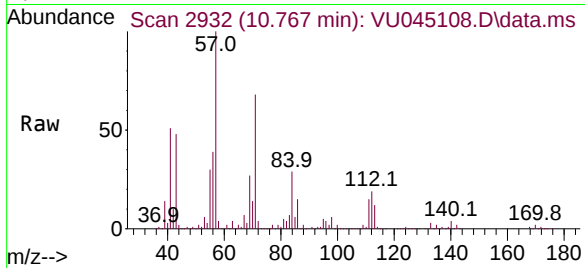




#57
1,1,2,2-Tetrachloroethane
Concen: 29.043 ug/L
RT: 10.767 min Scan# 2932
Delta R.T. -0.019 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

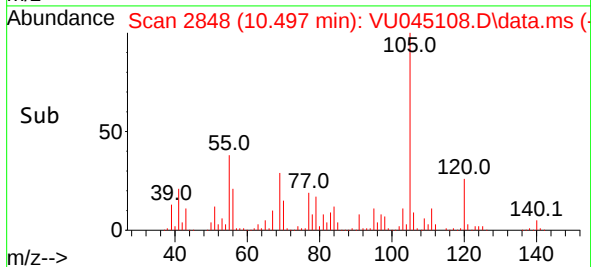
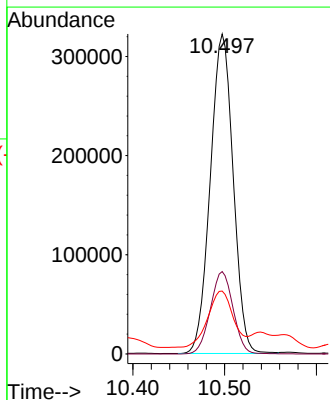
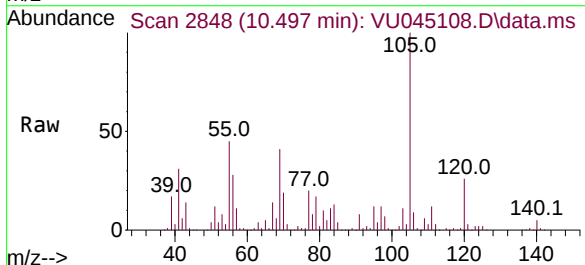
Instrument :
MSVOA_U
ClientSampleId :
EW903

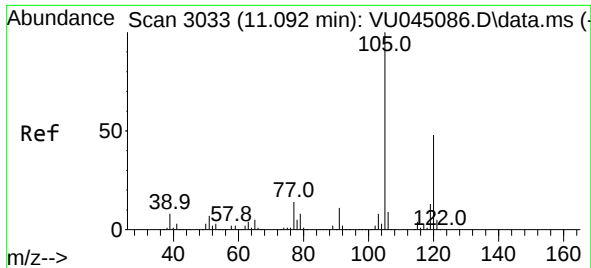
Tgt Ion: 83 Resp: 99767
Ion Ratio Lower Upper
83 100
85 86.7 45.1 83.7#
131 3.1 6.9 10.3#



#61
Isopropylbenzene
Concen: 73.925 ug/L
RT: 10.497 min Scan# 2848
Delta R.T. 0.010 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

Tgt Ion:105 Resp: 557677
Ion Ratio Lower Upper
105 100
120 25.6 20.5 30.7
77 19.2 13.5 20.3

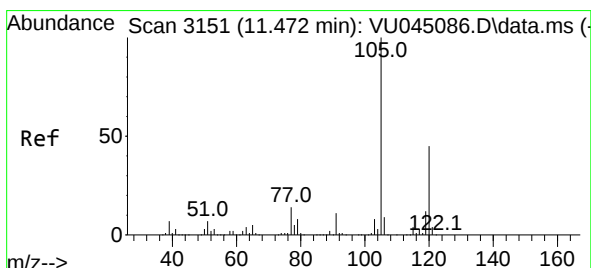
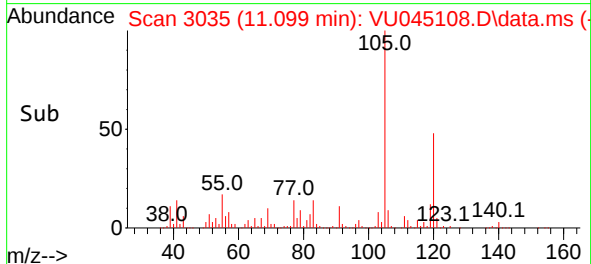
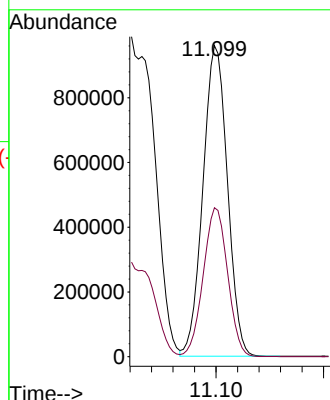
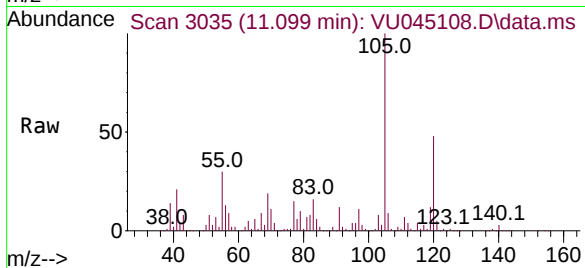




#62
 1,3,5-Trimethylbenzene
 Concen: 240.468 ug/L
 RT: 11.099 min Scan# 3035
 Delta R.T. 0.006 min
 Lab File: VU045108.D
 Acq: 04 Oct 2021 19:51

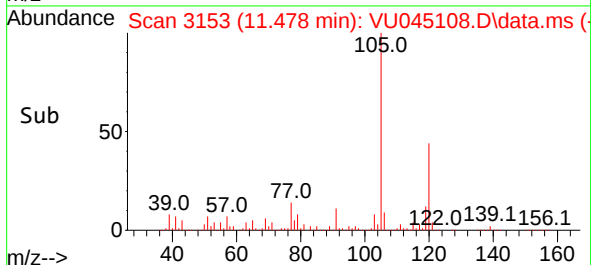
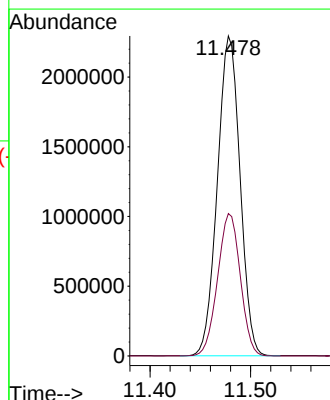
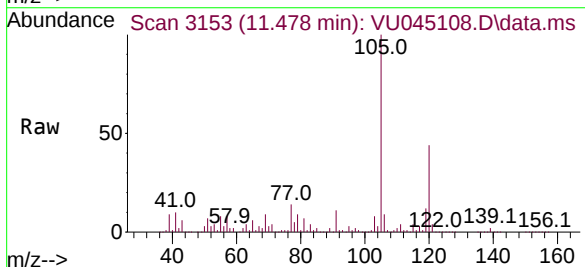
Instrument :
 MSVOA_U
 ClientSampleId :
 EW903

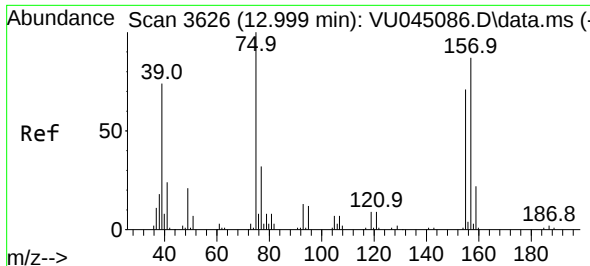
Tgt Ion:105 Resp: 1514981
 Ion Ratio Lower Upper
 105 100
 120 47.8 38.8 58.2



#63
 1,2,4-Trimethylbenzene
 Concen: 557.240 ug/L
 RT: 11.478 min Scan# 3153
 Delta R.T. 0.006 min
 Lab File: VU045108.D
 Acq: 04 Oct 2021 19:51

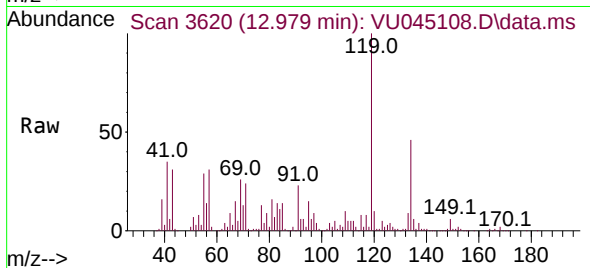
Tgt Ion:105 Resp: 3595010
 Ion Ratio Lower Upper
 105 100
 120 44.5 35.7 53.5



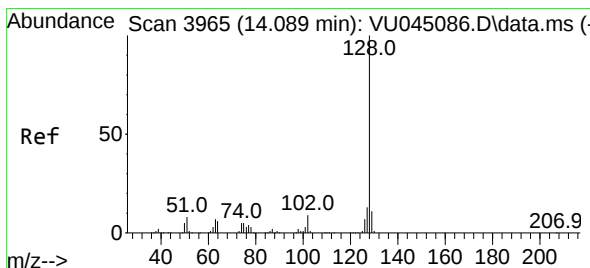
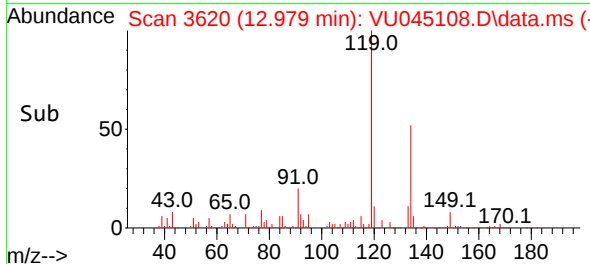
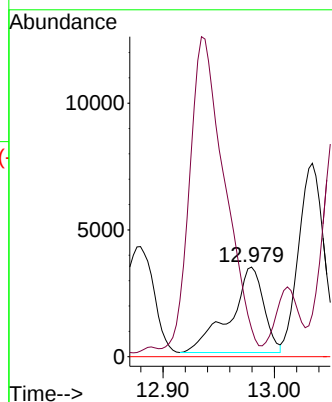


#68
1,2-Dibromo-3-chloropropane
Concen: 8.677 ug/L
RT: 12.979 min Scan# 3620
Delta R.T. -0.019 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

Instrument :
MSVOA_U
ClientSampled :
EW903

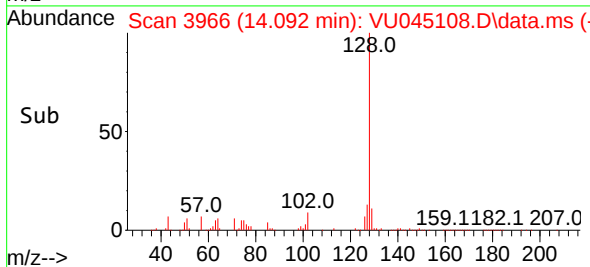
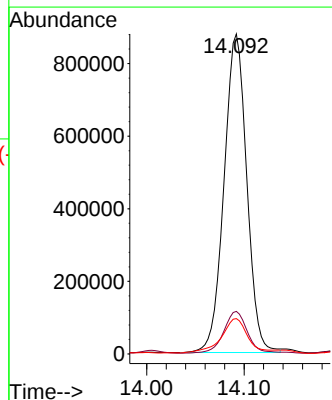
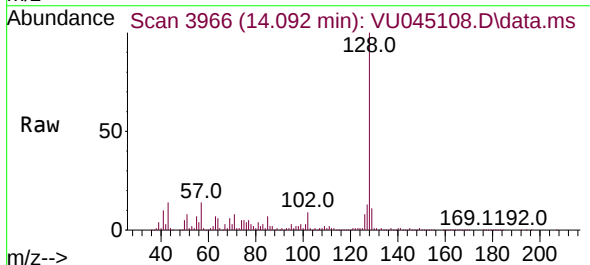


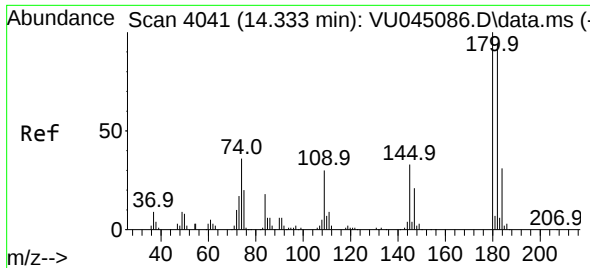
Tgt Ion: 75 Resp: 7109
Ion Ratio Lower Upper
75 100
155 31.5 58.5 87.7#
157 0.0 77.7 116.5#



#71
Naphthalene
Concen: 204.373 ug/L
RT: 14.092 min Scan# 3966
Delta R.T. 0.003 min
Lab File: VU045108.D
Acq: 04 Oct 2021 19:51

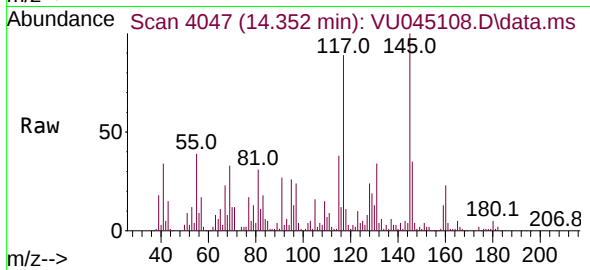
Tgt Ion:128 Resp: 1423882
Ion Ratio Lower Upper
128 100
127 13.8 10.4 15.6
129 12.4 8.8 13.2





#72
 1,2,3-Trichlorobenzene
 Concen: 4.487 ug/L
 RT: 14.352 min Scan# 4047
 Delta R.T. 0.019 min
 Lab File: VU045108.D
 Acq: 04 Oct 2021 19:51

Instrument :
 MSVOA_U
 ClientSampleId :
 EW903



Tgt Ion:180 Resp: 9230
 Ion Ratio Lower Upper
 180 100
 182 11.0 76.8 115.2#
 145 1978.5 26.5 39.7#

