

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020521\
 Data File : VU042280.D
 Acq On : 05 Feb 2021 14:10
 Operator : SY/MD
 Sample : M1326-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 X2Z54

Quant Time: Feb 06 07:25:25 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM020521WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Feb 06 07:13:30 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.256	114	188877	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.426	117	177064	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.822	152	94493	50.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	67217	47.29	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	94.58%		
7) Chloroethane-d5	1.915	69	46189	47.38	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	94.76%		
11) 1,1-Dichloroethene-d2	2.571	63	113466	37.40	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	74.80%		
21) 2-Butanone-d5	4.642	46	148931	101.27	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	101.27%		
24) Chloroform-d	5.073	84	138071	48.37	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	96.74%		
26) 1,2-Dichloroethane-d4	5.713	65	99067	49.05	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	98.10%		
32) Benzene-d6	5.735	84	251471	48.88	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	97.76%		
36) 1,2-Dichloropropane-d6	6.700	67	83594	48.65	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	97.30%		
41) Toluene-d8	7.906	98	237315	48.70	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	97.40%		
43) trans-1,3-Dichloroprop...	8.189	79	44275	49.56	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	99.12%		
47) 2-Hexanone-d5	8.648	63	98638	101.52	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	101.52%		
56) 1,1,2,2-Tetrachloroeth...	10.767	84	125655	49.12	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	98.24%		
66) 1,2-Dichlorobenzene-d4	12.201	152	97645	49.28	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	98.56%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.388	85	20029	12.65	ug/L	99
3) Chloromethane	1.523	50	54026	37.38	ug/L	100
6) Bromomethane	1.861	94	6316	7.87	ug/L	94
9) Trichlorofluoromethane	2.137	101	61043	27.62	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.584	101	36784	27.78	ug/L	98
14) Carbon disulfide	2.800	76	84963	23.27	ug/L	99
15) Methyl Acetate	2.960	43	13276	6.50	ug/L	98
16) Methylene chloride	3.054	84	1373	1.00	ug/L	97
17) trans-1,2-Dichloroethene	3.359	96	67352	53.31	ug/L	99
18) Methyl tert-butyl Ether	3.372	73	486289	106.98	ug/L	100
25) Chloroform	5.095	83	110987	41.77	ug/L	99
27) 1,2-Dichloroethane	5.803	62	100352	42.72	ug/L	100
30) 1,1,1-Trichloroethane	5.327	97	48121	19.86	ug/L	97
31) Carbon tetrachloride	5.533	117	63657	30.54	ug/L	99
34) Trichloroethene	6.555	95	1356	0.96	ug/L	91
35) Methylcyclohexane	6.771	83	62446	28.57	ug/L	99
39) cis-1,3-Dichloropropene	7.616	75	65923	27.93	ug/L	97
40) 4-Methyl-2-pentanone	7.806	43	122047	40.78	ug/L	99
42) Toluene	7.976	91	301268	52.09	ug/L	100

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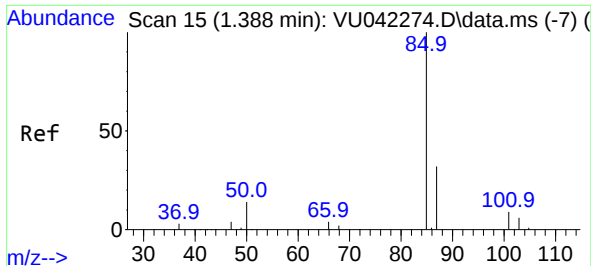
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

45) 1,1,2-Trichloroethane	8.410	97	38135	27.43	ug/L	98
49) Dibromochloromethane	8.819	129	34102	21.06	ug/L	95
50) 1,2-Dibromoethane	8.931	107	64901	41.63	ug/L	99
53) m,p-Xylene	9.706	106	84838	35.34	ug/L	99
55) Styrene	10.124	104	79078	19.37	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.793	83	63071	24.92	ug/L	99
63) 1,2,4-Trimethylbenzene	11.475	105	270994	49.42	ug/L	100
65) 1,4-Dichlorobenzene	11.844	146	92826	30.73	ug/L	99
68) 1,2-Dibromo-3-chloropr...	13.008	75	20692	29.86	ug/L	99
72) 1,2,3-Trichlorobenzene	14.339	180	90274	46.30	ug/L	97

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

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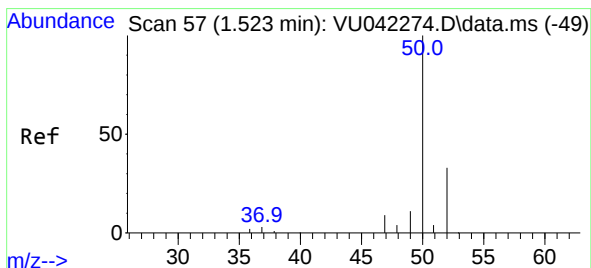
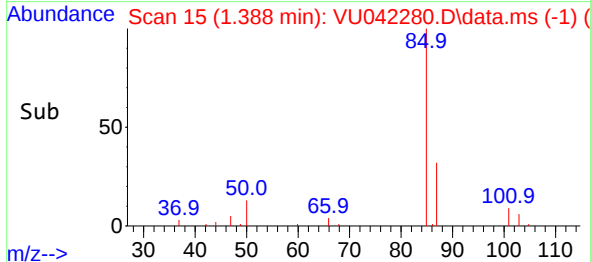
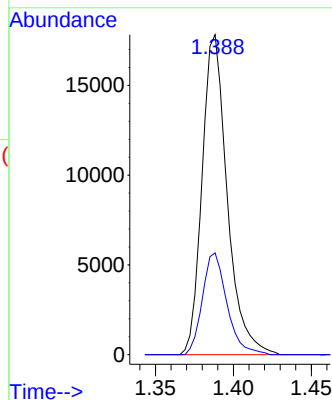
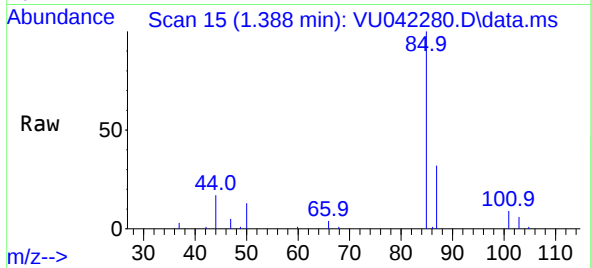




#2
Dichlorodifluoromethane
Concen: 12.65 ug/L
RT: 1.388 min Scan# 15
Delta R.T. 0.000 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

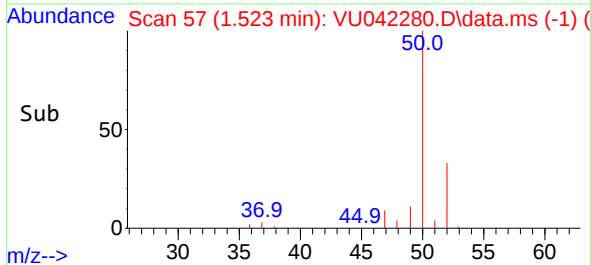
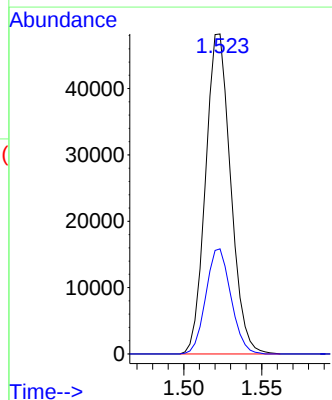
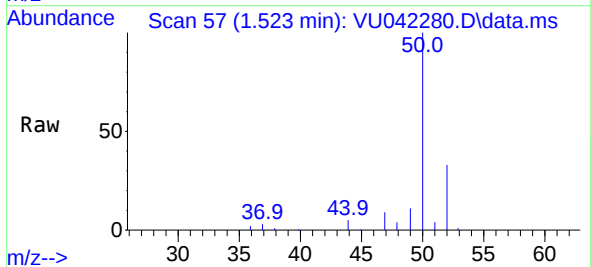
Instrument :
MSVOA_U
ClientSampled :
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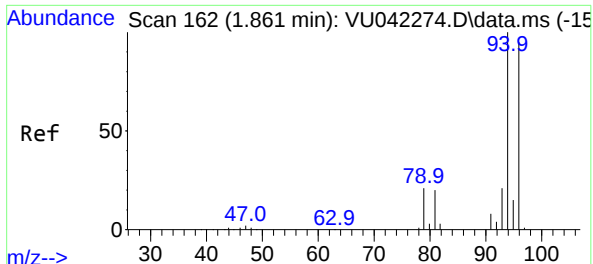
Tgt Ion: 85 Resp: 20029
Ion Ratio Lower Upper
85 100
87 31.0 25.4 38.2



#3
Chloromethane
Concen: 37.38 ug/L
RT: 1.523 min Scan# 57
Delta R.T. 0.000 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

Tgt Ion: 50 Resp: 54026
Ion Ratio Lower Upper
50 100
52 32.9 22.8 42.4

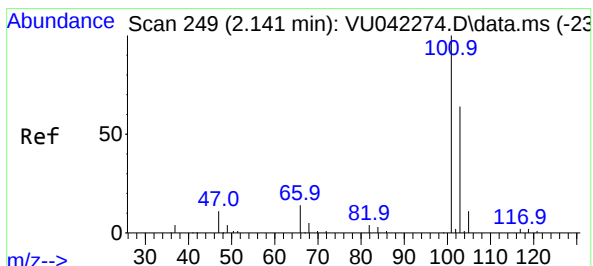
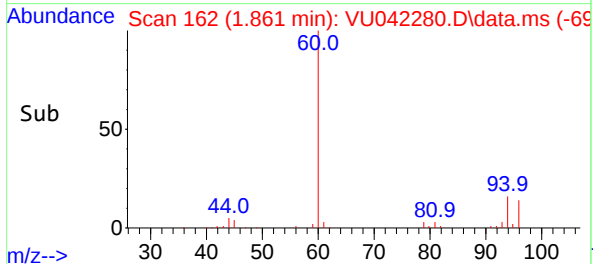
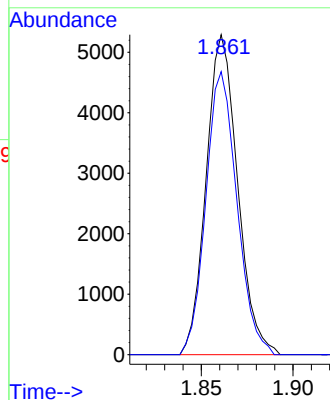
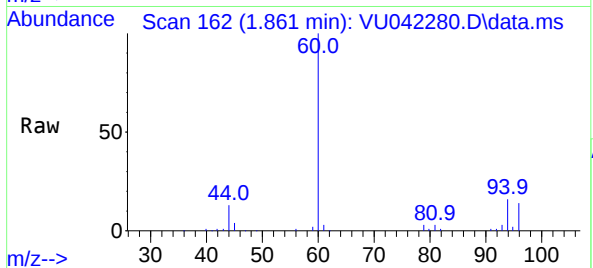




#6
Bromomethane
Concen: 7.87 ug/L
RT: 1.861 min Scan# 162
Delta R.T. -0.000 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

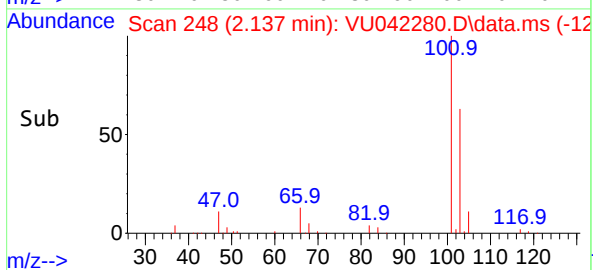
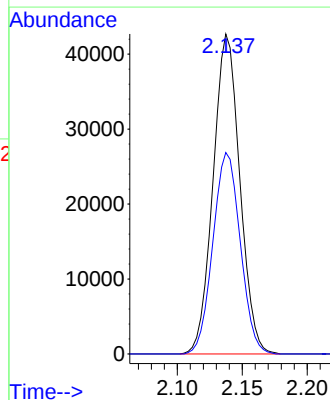
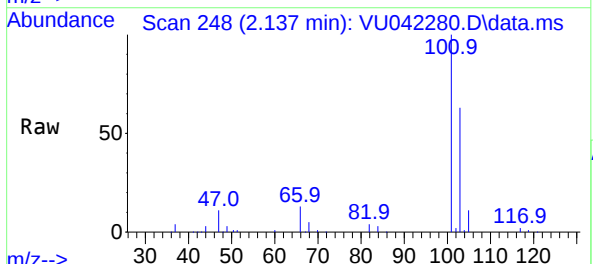
Instrument :
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ClientSampled :
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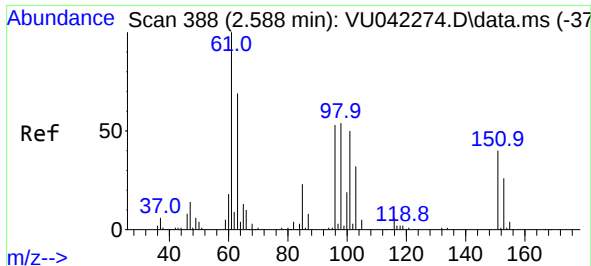
Tgt Ion: 94 Resp: 6316
Ion Ratio Lower Upper
94 100
96 88.5 66.3 123.1



#9
Trichlorofluoromethane
Concen: 27.62 ug/L
RT: 2.137 min Scan# 248
Delta R.T. -0.004 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

Tgt Ion:101 Resp: 61043
Ion Ratio Lower Upper
101 100
103 64.4 51.4 77.0

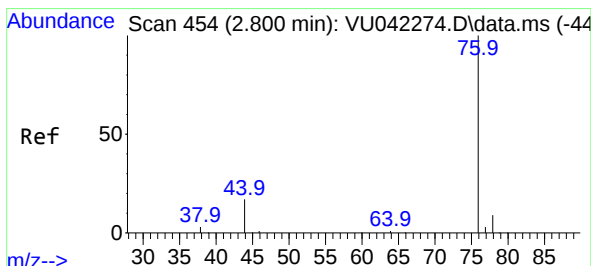
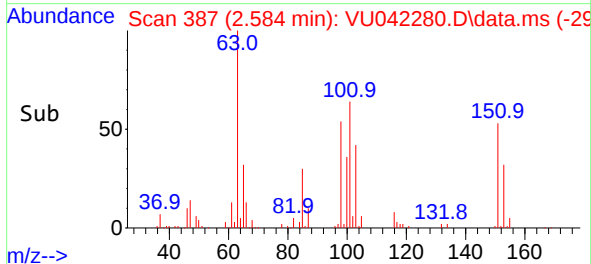
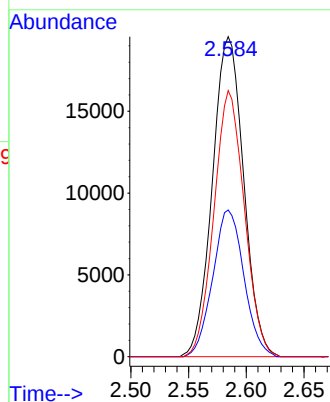
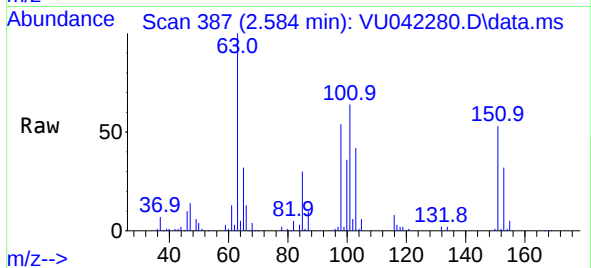




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 27.78 ug/L
RT: 2.584 min Scan# 387
Delta R.T. -0.004 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

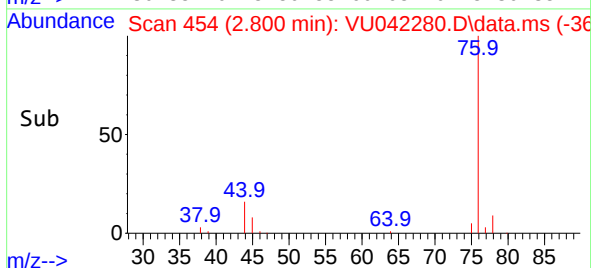
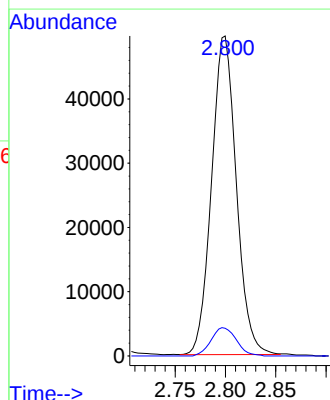
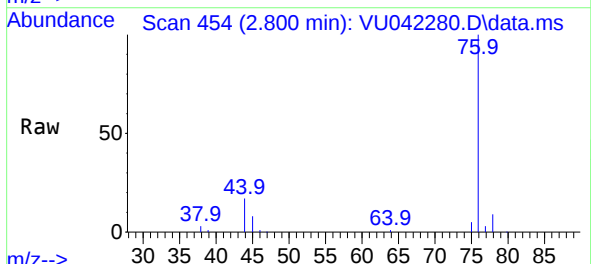
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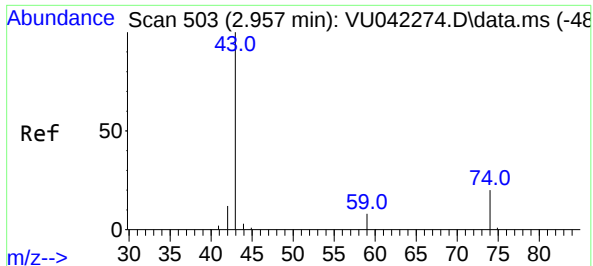
Tgt Ion:101 Resp: 36784
Ion Ratio Lower Upper
101 100
85 45.7 36.7 55.1
151 80.9 62.9 94.3



#14
Carbon disulfide
Concen: 23.27 ug/L
RT: 2.800 min Scan# 454
Delta R.T. -0.000 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

Tgt Ion: 76 Resp: 84963
Ion Ratio Lower Upper
76 100
78 8.7 7.4 11.0

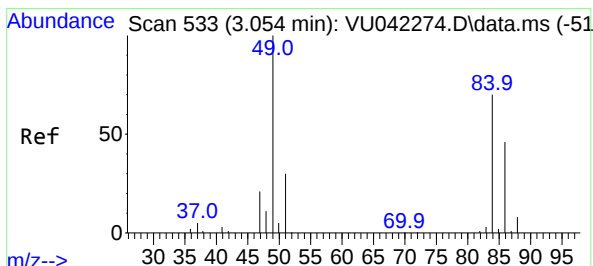
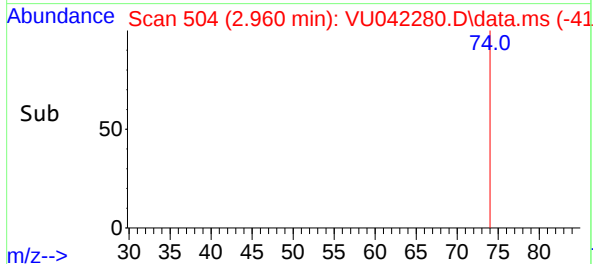
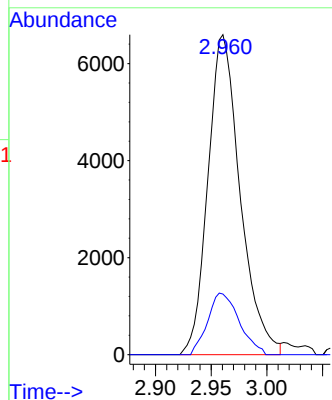
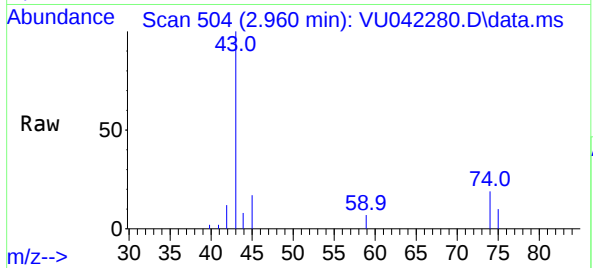




#15
Methyl Acetate
Concen: 6.50 ug/L
RT: 2.960 min Scan# 504
Delta R.T. 0.003 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

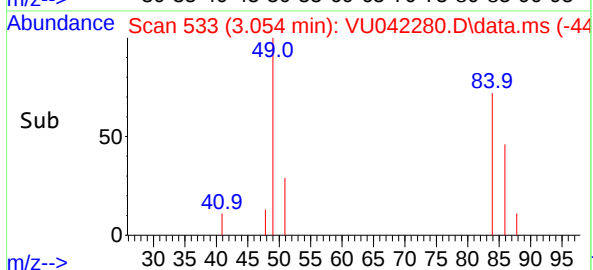
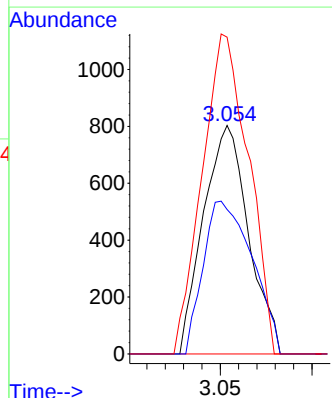
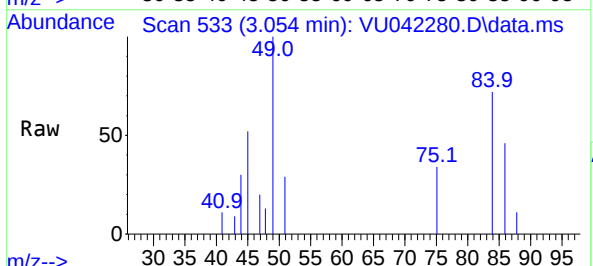
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ClientSampled :
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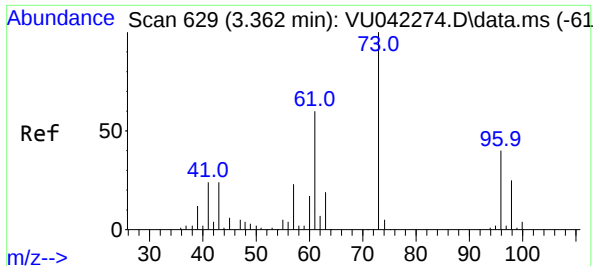
Tgt Ion: 43 Resp: 13276
Ion Ratio Lower Upper
43 100
74 18.8 15.8 23.6



#16
Methylene chloride
Concen: 1.00 ug/L
RT: 3.054 min Scan# 533
Delta R.T. -0.000 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

Tgt Ion: 84 Resp: 1373
Ion Ratio Lower Upper
84 100
86 63.3 46.0 85.4
49 138.7 99.5 184.9

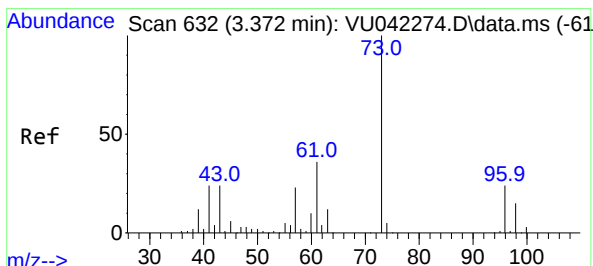
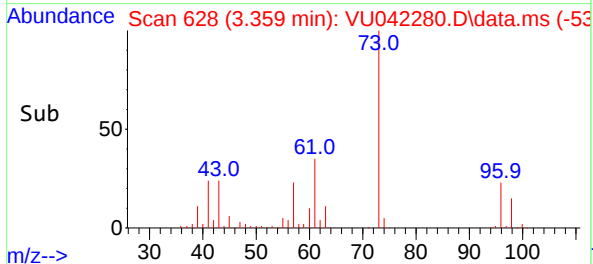
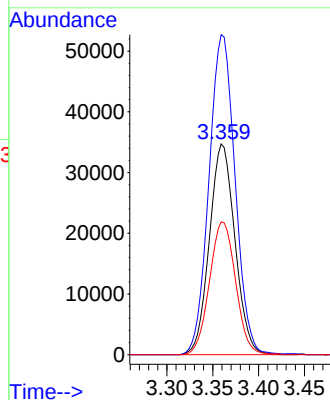
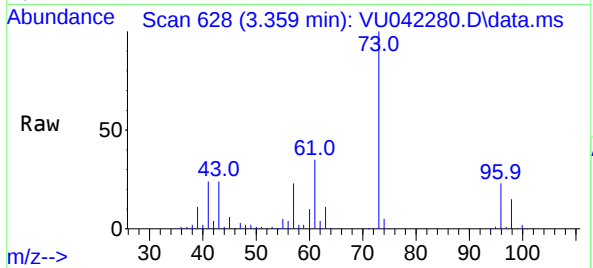




#17
trans-1,2-Dichloroethene
Concen: 53.31 ug/L
RT: 3.359 min Scan# 628
Delta R.T. -0.003 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

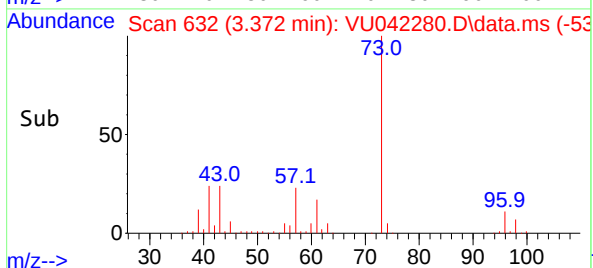
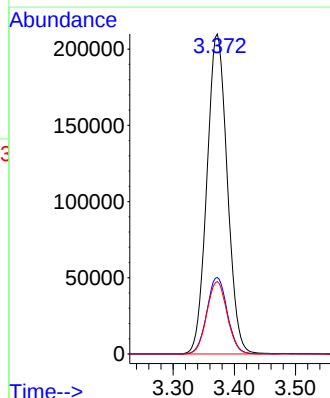
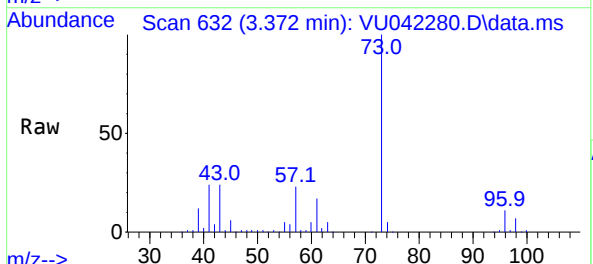
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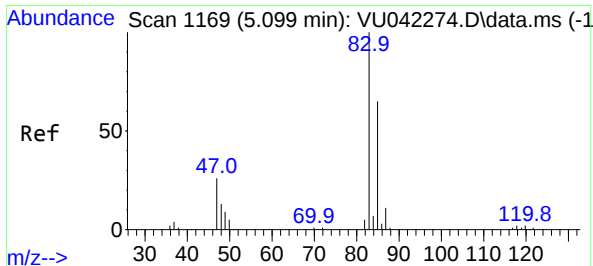
Tgt Ion: 96 Resp: 67352
Ion Ratio Lower Upper
96 100
61 151.8 104.6 194.2
98 63.0 44.4 82.4



#18
Methyl tert-butyl Ether
Concen: 106.98 ug/L
RT: 3.372 min Scan# 632
Delta R.T. -0.000 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

Tgt Ion: 73 Resp: 486289
Ion Ratio Lower Upper
73 100
43 24.1 19.4 29.0
57 22.6 18.2 27.2



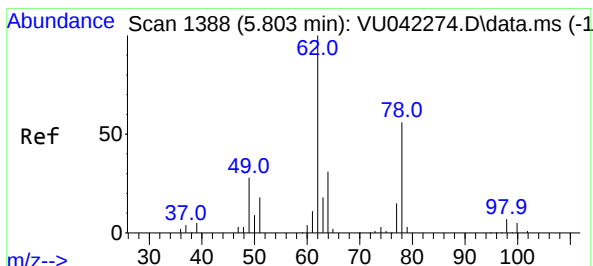
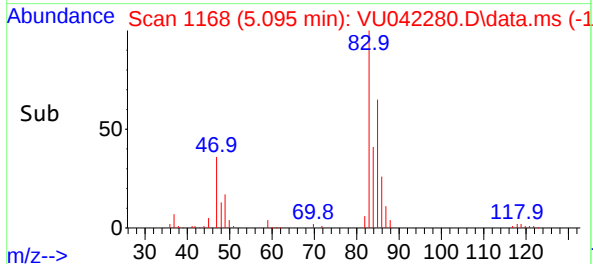
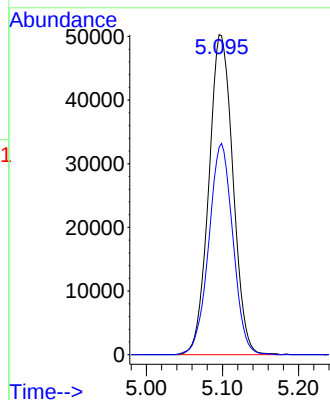
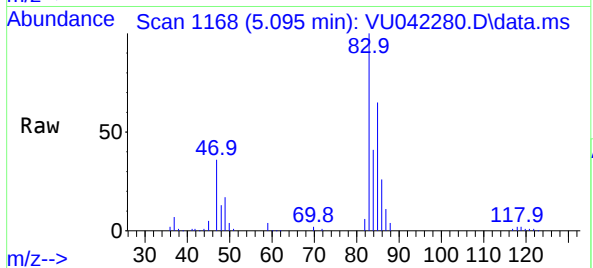


#25

Chloroform
Concen: 41.77 ug/L
RT: 5.095 min Scan# 1168
Delta R.T. -0.003 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

Instrument :
MSVOA_U
ClientSampled :
X2Z54

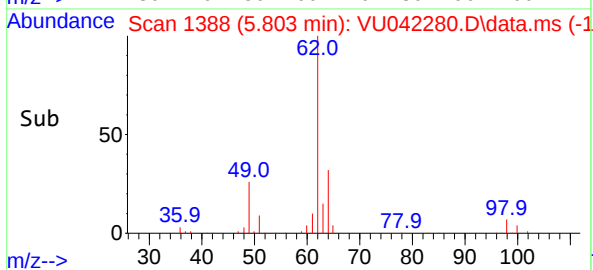
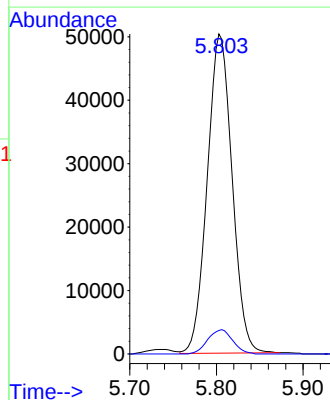
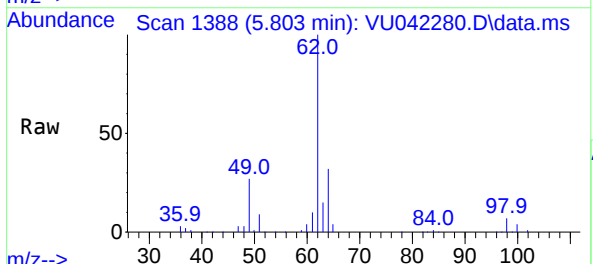
Tgt Ion: 83 Resp: 110987
Ion Ratio Lower Upper
83 100
85 64.8 46.1 85.5

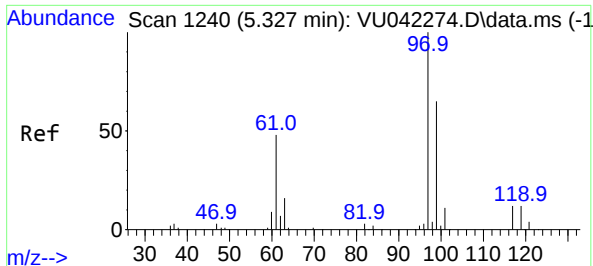


#27

1,2-Dichloroethane
Concen: 42.72 ug/L
RT: 5.803 min Scan# 1388
Delta R.T. -0.000 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

Tgt Ion: 62 Resp: 100352
Ion Ratio Lower Upper
62 100
98 7.4 5.8 8.8



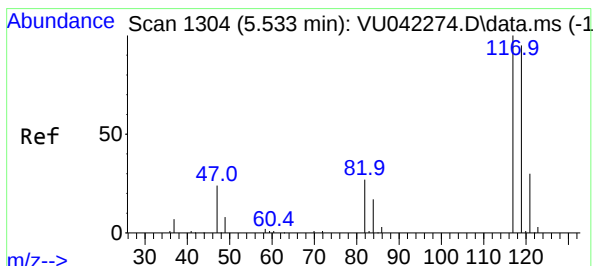
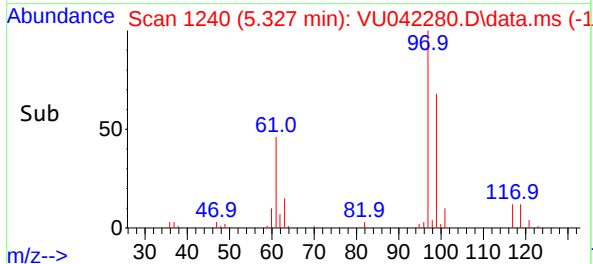
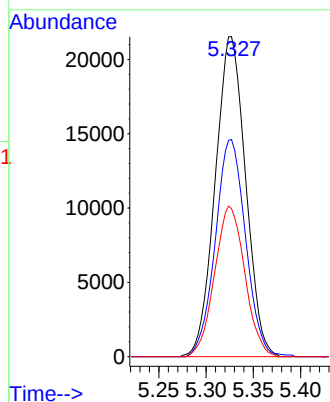
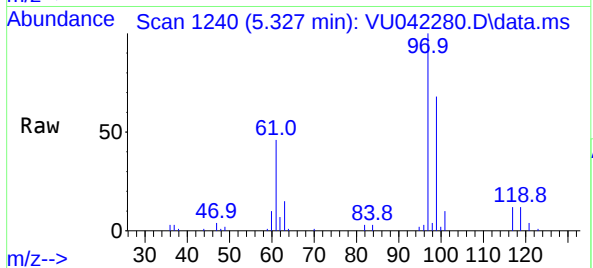


#30
1,1,1-Trichloroethane
Concen: 19.86 ug/L
RT: 5.327 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

Instrument :
MSVOA_U
ClientSampled :
X2Z54

Tgt Ion: 97 Resp: 48121

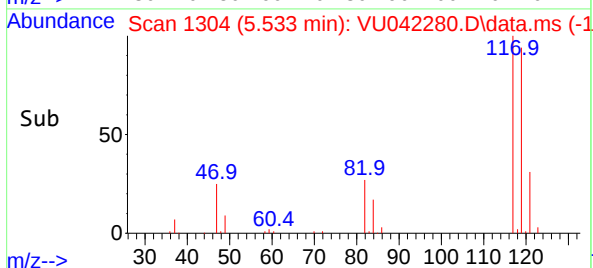
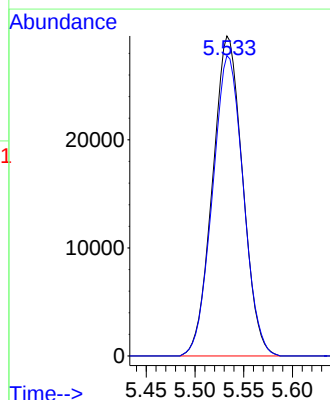
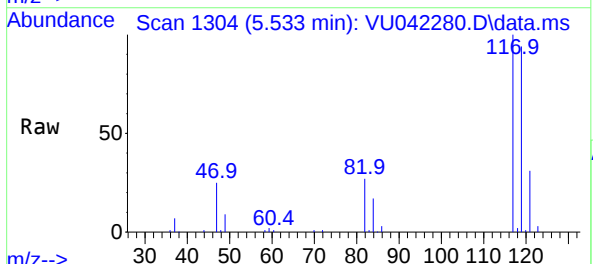
Ion	Ratio	Lower	Upper
97	100		
99	67.6	51.3	76.9
61	46.8	37.7	56.5

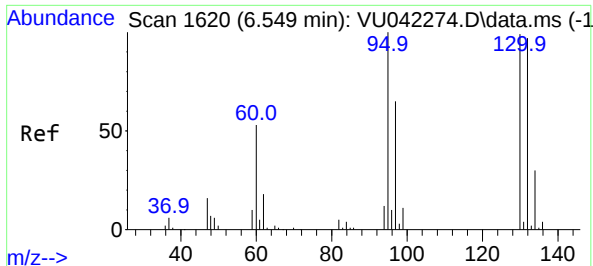


#31
Carbon tetrachloride
Concen: 30.54 ug/L
RT: 5.533 min Scan# 1304
Delta R.T. -0.000 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

Tgt Ion: 117 Resp: 63657

Ion	Ratio	Lower	Upper
117	100		
119	95.8	77.5	116.3



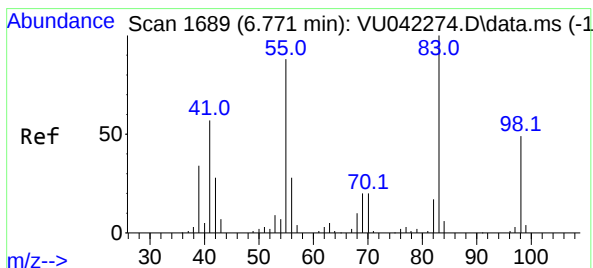
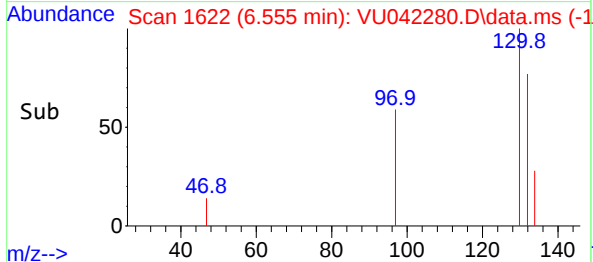
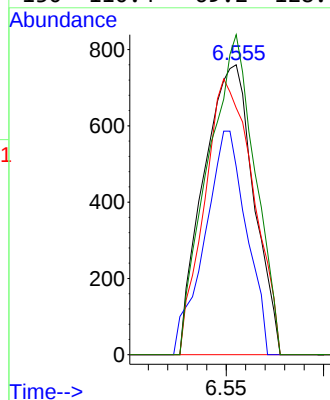
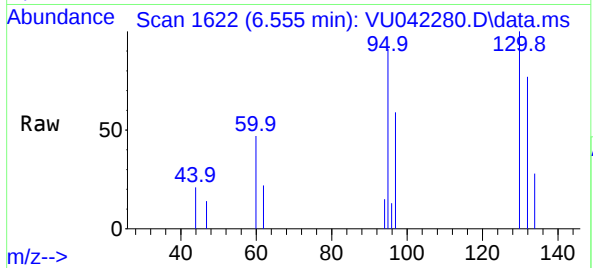


#34
Trichloroethene
Concen: 0.96 ug/L
RT: 6.555 min Scan# 1622
Delta R.T. 0.006 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

Instrument :
MSVOA_U
ClientSampled :
X2Z54

Tgt Ion: 95 Resp: 1356

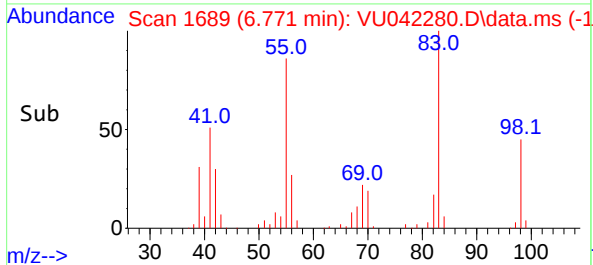
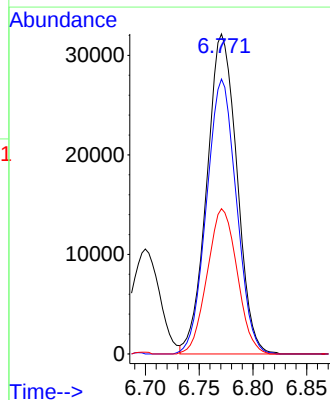
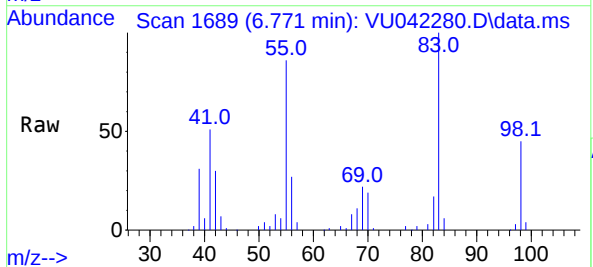
Ion	Ratio	Lower	Upper
95	100		
97	64.9	45.3	84.1
132	85.1	67.5	125.4
130	110.4	69.2	128.4

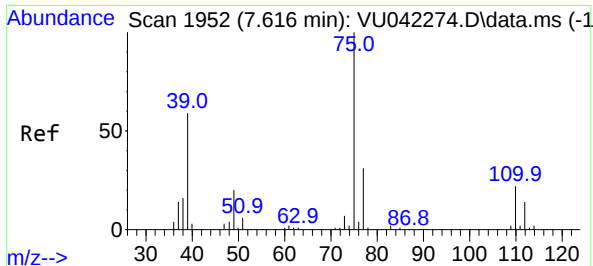


#35
Methylcyclohexane
Concen: 28.57 ug/L
RT: 6.771 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

Tgt Ion: 83 Resp: 62446

Ion	Ratio	Lower	Upper
83	100		
55	85.5	68.6	102.8
98	45.3	37.6	56.4



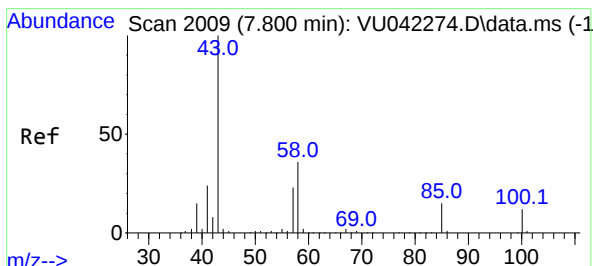
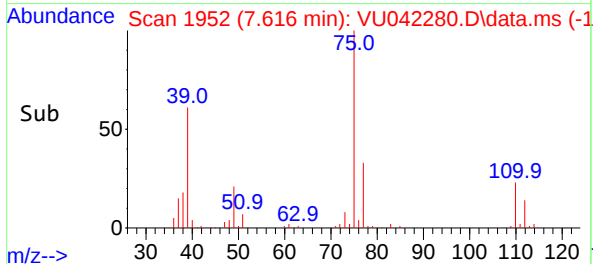
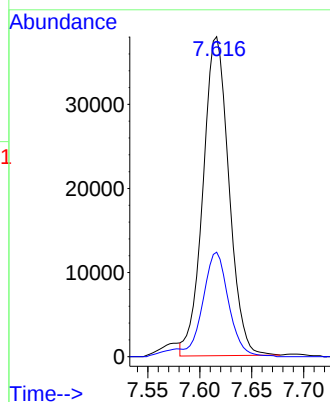
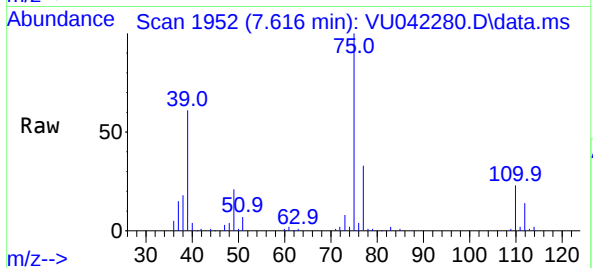


#39

cis-1,3-Dichloropropene
Concen: 27.93 ug/L
RT: 7.616 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

Instrument :
MSVOA_U
ClientSampleId :
X2Z54

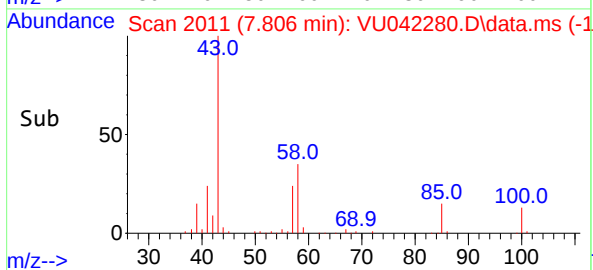
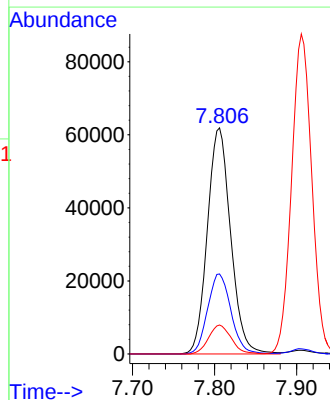
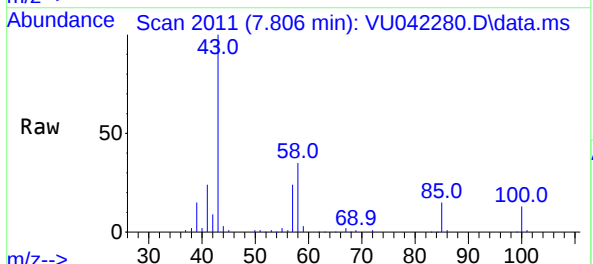
Tgt Ion: 75 Resp: 65923
Ion Ratio Lower Upper
75 100
77 32.7 21.7 40.3

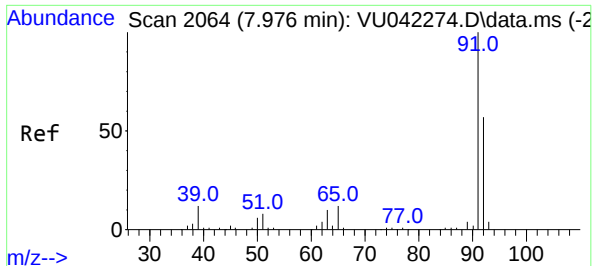


#40

4-Methyl-2-pentanone
Concen: 40.78 ug/L
RT: 7.806 min Scan# 2011
Delta R.T. 0.006 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

Tgt Ion: 43 Resp: 122047
Ion Ratio Lower Upper
43 100
58 35.4 28.7 43.1
100 12.5 9.7 14.5

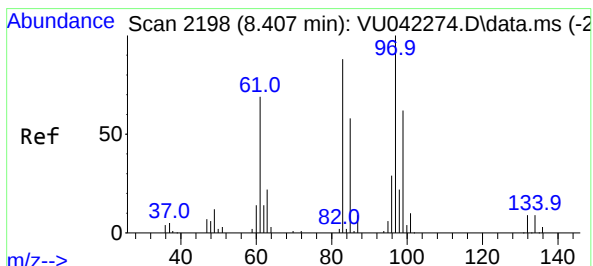
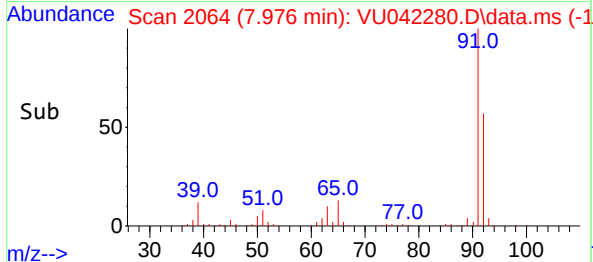
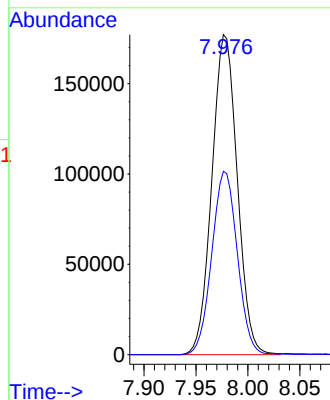
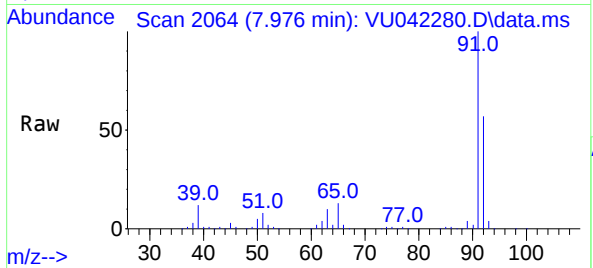




#42
Toluene
Concen: 52.09 ug/L
RT: 7.976 min Scan# 2064
Delta R.T. -0.000 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

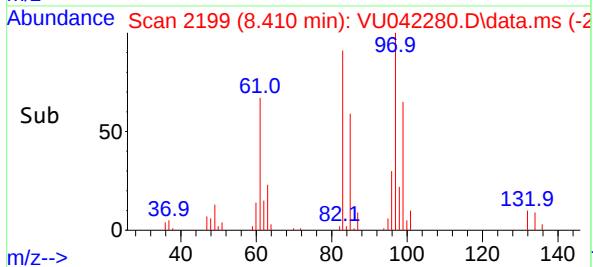
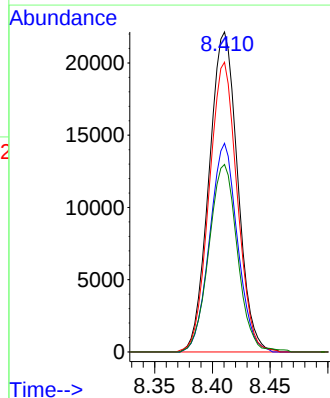
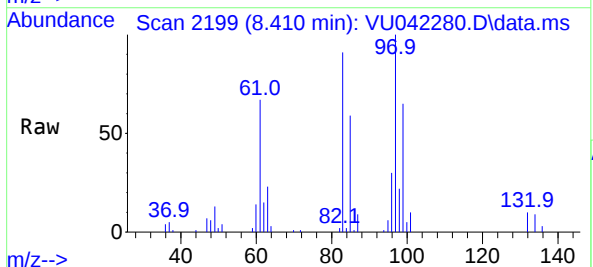
Instrument :
MSVOA_U
ClientSampled :
X2Z54

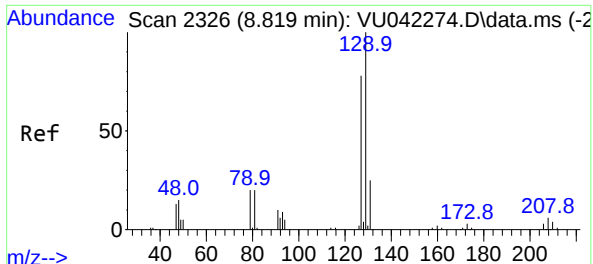
Tgt Ion: 91 Resp: 301268
Ion Ratio Lower Upper
91 100
92 57.3 40.3 74.8



#45
1,1,2-Trichloroethane
Concen: 27.43 ug/L
RT: 8.410 min Scan# 2199
Delta R.T. 0.003 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

Tgt Ion: 97 Resp: 38135
Ion Ratio Lower Upper
97 100
99 65.2 43.7 81.1
83 90.5 61.7 114.7
85 58.6 40.8 75.8





#49

Dibromochloromethane

Concen: 21.06 ug/L

RT: 8.819 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VU042280.D

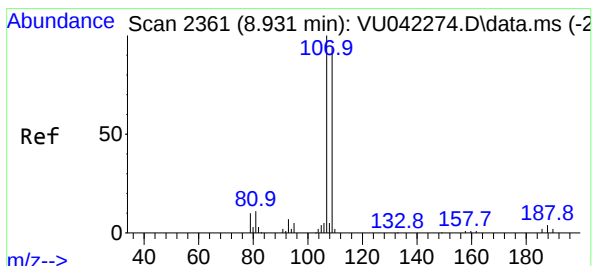
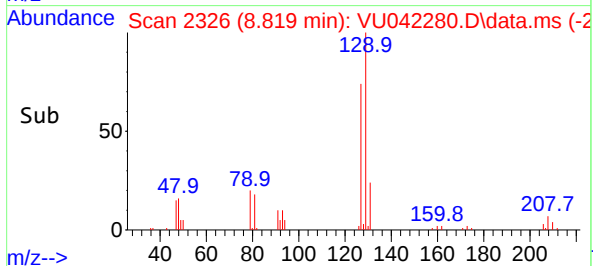
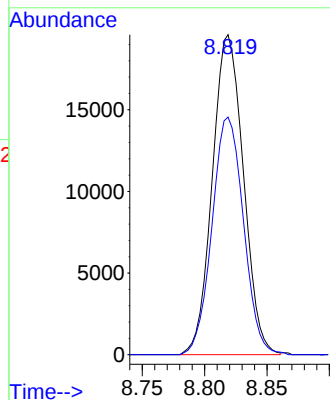
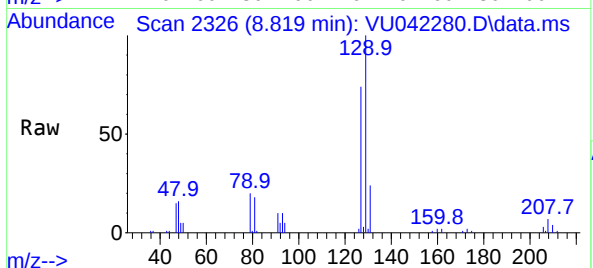
Acq: 05 Feb 2021 14:10

Tgt Ion:129 Resp: 34102

Ion Ratio Lower Upper

129 100

127 74.3 54.7 101.7



#50

1,2-Dibromoethane

Concen: 41.63 ug/L

RT: 8.931 min Scan# 2361

Delta R.T. -0.000 min

Lab File: VU042280.D

Acq: 05 Feb 2021 14:10

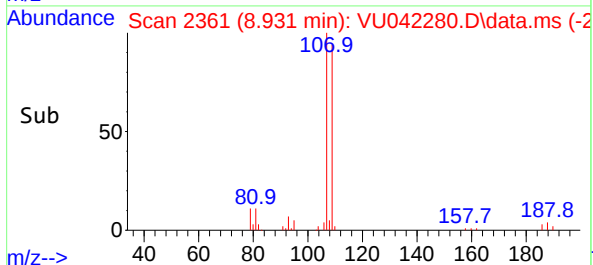
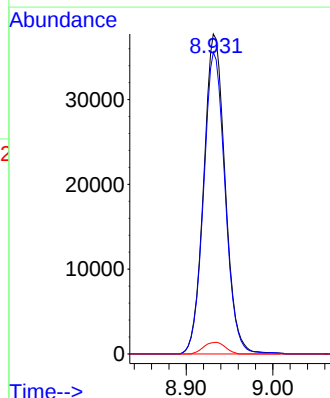
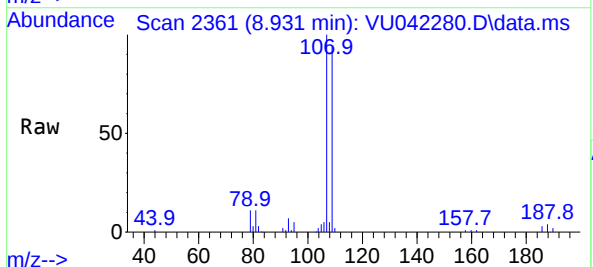
Tgt Ion:107 Resp: 64901

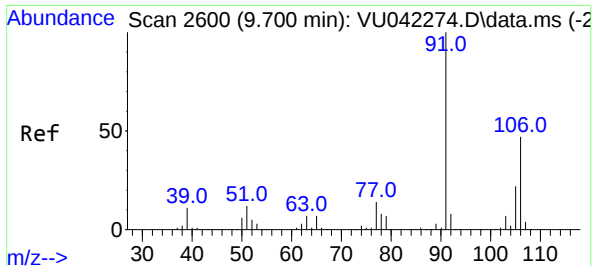
Ion Ratio Lower Upper

107 100

109 94.3 65.7 121.9

188 3.6 3.4 5.0

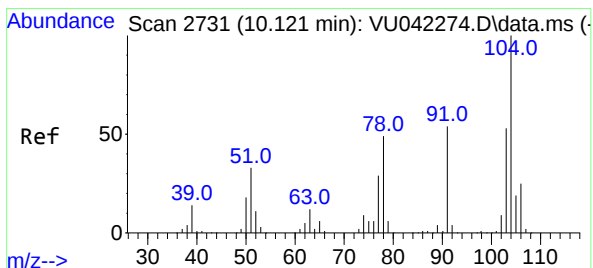
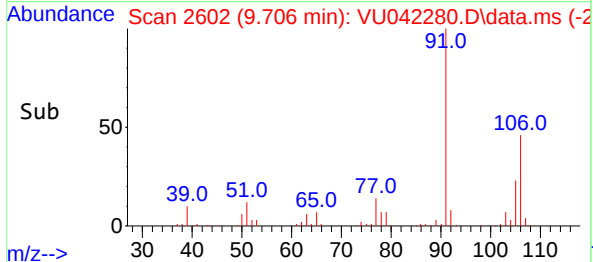
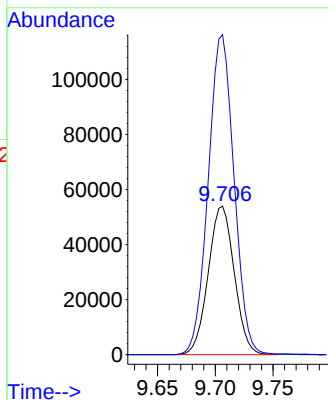
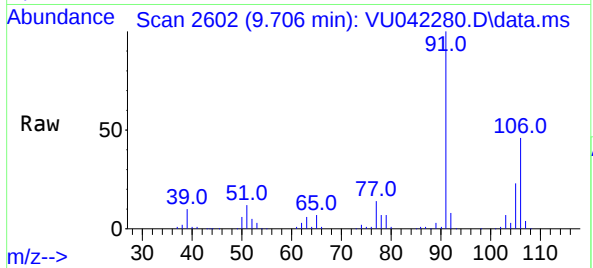




#53
m,p-Xylene
Concen: 35.34 ug/L
RT: 9.706 min Scan# 2602
Delta R.T. 0.006 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

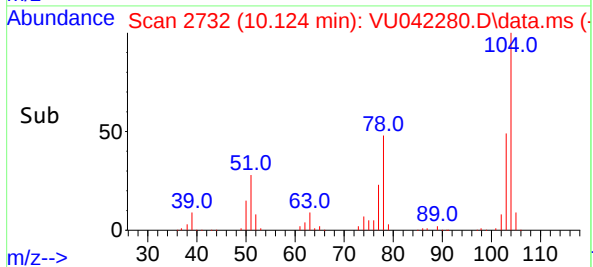
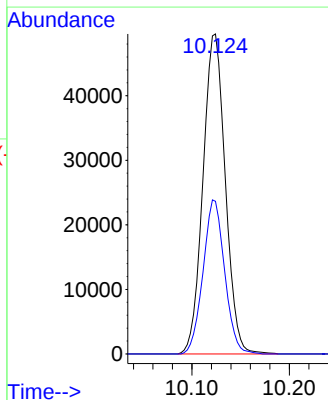
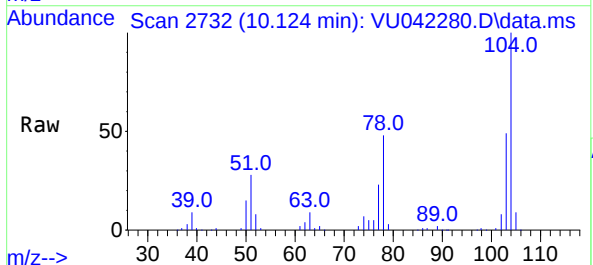
Instrument :
MSVOA_U
ClientSampled :
X2Z54

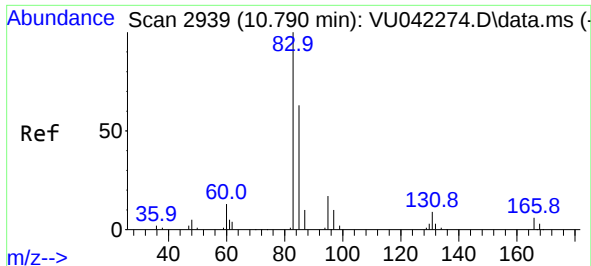
Tgt Ion:106 Resp: 84838
Ion Ratio Lower Upper
106 100
91 215.4 149.7 277.9



#55
Styrene
Concen: 19.37 ug/L
RT: 10.124 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

Tgt Ion:104 Resp: 79078
Ion Ratio Lower Upper
104 100
78 47.7 34.4 64.0

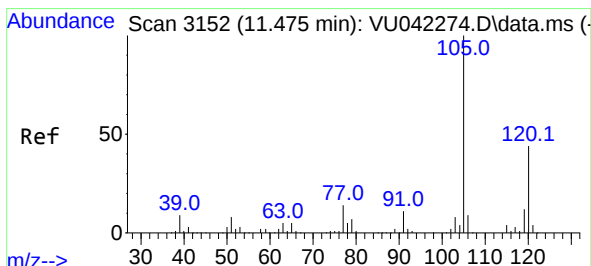
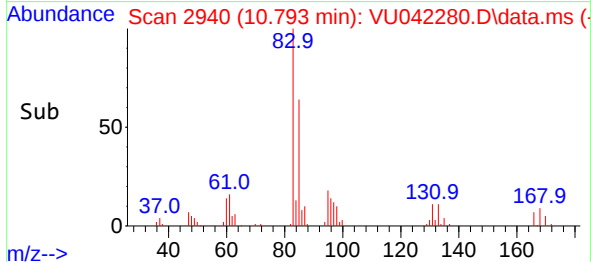
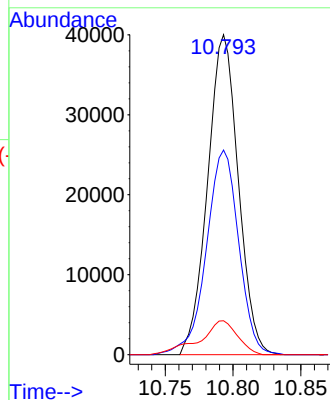
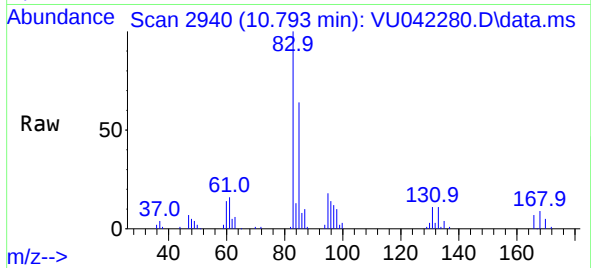




#57
1,1,2,2-Tetrachloroethane
Concen: 24.92 ug/L
RT: 10.793 min Scan# 2940
Delta R.T. 0.003 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

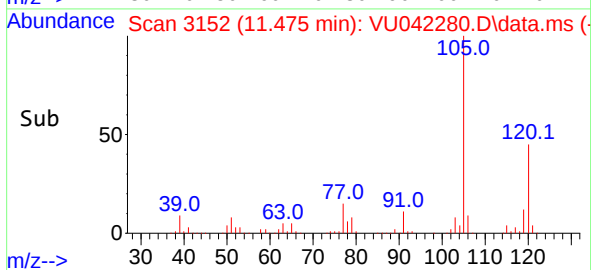
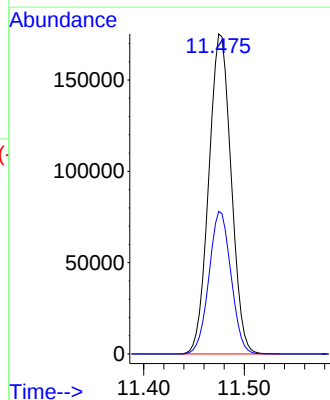
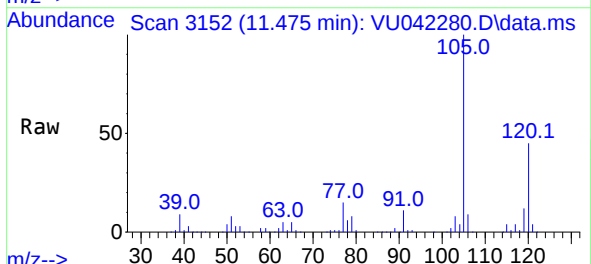
Instrument :
MSVOA_U
ClientSampleId :
X2Z54

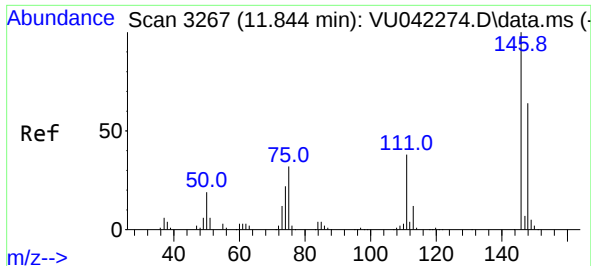
Tgt Ion: 83 Resp: 63071
Ion Ratio Lower Upper
83 100
85 64.0 45.4 84.2
131 10.6 8.1 12.1



#63
1,2,4-Trimethylbenzene
Concen: 49.42 ug/L
RT: 11.475 min Scan# 3152
Delta R.T. -0.000 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

Tgt Ion:105 Resp: 270994
Ion Ratio Lower Upper
105 100
120 43.8 35.2 52.8

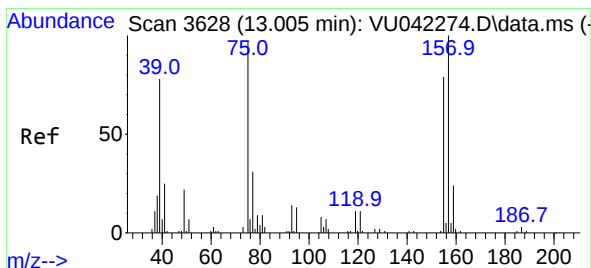
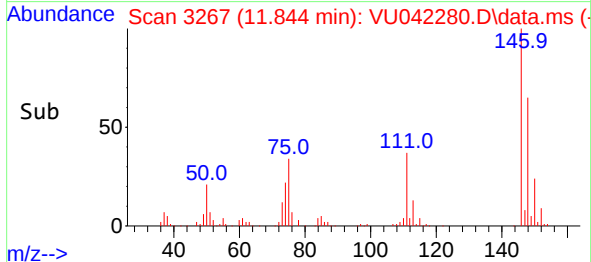
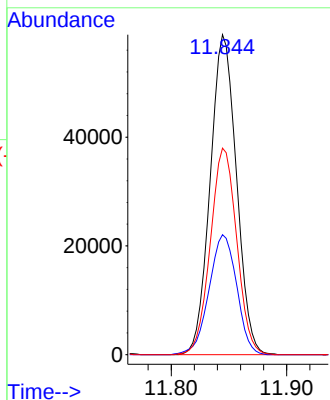
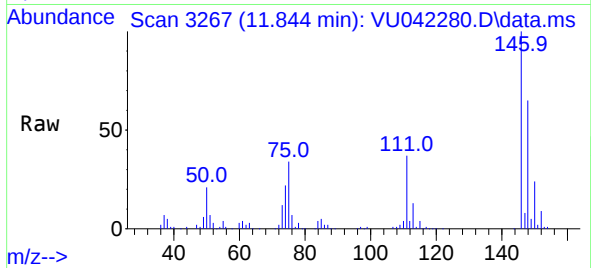




#65
1,4-Dichlorobenzene
Concen: 30.73 ug/L
RT: 11.844 min Scan# 3267
Delta R.T. -0.000 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

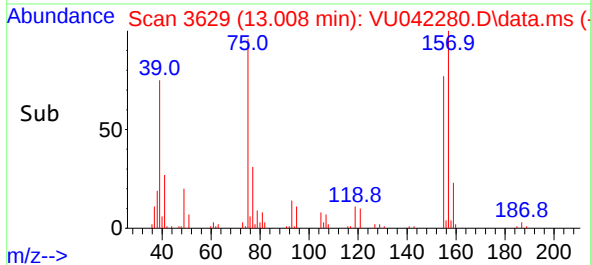
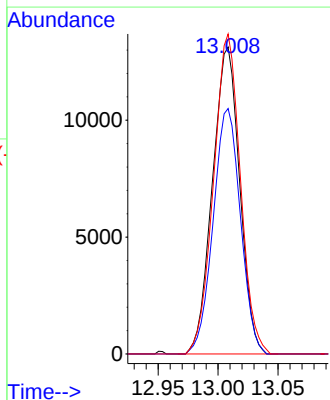
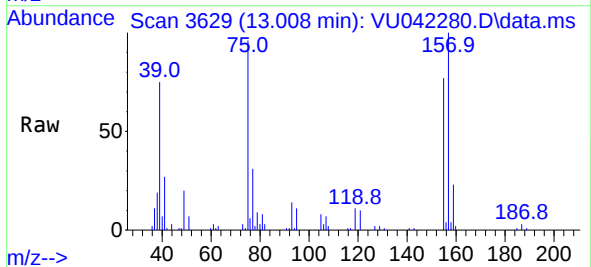
Instrument :
MSVOA_U
ClientSampleId :
X2Z54

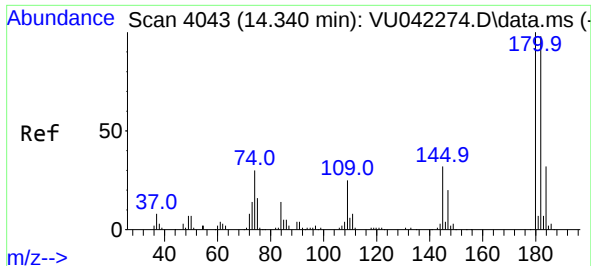
Tgt Ion:	146	Resp:	92826
Ion	Ratio	Lower	Upper
146	100		
111	37.5	26.6	49.4
148	64.5	44.6	82.8



#68
1,2-Dibromo-3-chloropropane
Concen: 29.86 ug/L
RT: 13.008 min Scan# 3629
Delta R.T. 0.003 min
Lab File: VU042280.D
Acq: 05 Feb 2021 14:10

Tgt Ion:	75	Resp:	20692
Ion	Ratio	Lower	Upper
75	100		
155	80.0	65.2	97.8
157	104.3	82.7	124.1





#72
 1,2,3-Trichlorobenzene
 Concen: 46.30 ug/L
 RT: 14.339 min Scan# 4043
 Delta R.T. -0.000 min
 Lab File: VU042280.D
 Acq: 05 Feb 2021 14:10

Instrument :
 MSVOA_U
 ClientSampleId :
 X2Z54

Tgt Ion:180 Resp: 90274
 Ion Ratio Lower Upper
 180 100
 182 98.6 76.2 114.2
 145 31.2 24.6 37.0

