

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040721\
 Data File : VU042979.D
 Acq On : 07 Apr 2021 14:22
 Operator : SY/MD
 Sample : M1906-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 X3306

Quant Time: Apr 08 15:31:41 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM040721WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Apr 08 08:47:10 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.256	114	182324	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.423	117	180175	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.822	152	93039	50.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	48199	46.40	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.80%
7) Chloroethane-d5	1.903	69	41081	46.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.50%
11) 1,1-Dichloroethene-d2	2.572	63	122673	50.31	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.62%
21) 2-Butanone-d5	4.626	46	135425	92.32	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.32%
24) Chloroform-d	5.070	84	122880	48.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.14%
26) 1,2-Dichloroethane-d4	5.710	65	88533	45.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.50%
32) Benzene-d6	5.735	84	210863	46.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.14%
36) 1,2-Dichloropropane-d6	6.697	67	75001	47.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.32%
41) Toluene-d8	7.906	98	204652	44.85	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.70%
43) trans-1,3-Dichloroprop...	8.185	79	38609	46.71	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.42%
47) 2-Hexanone-d5	8.639	63	92783	94.60	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	94.60%
56) 1,1,2,2-Tetrachloroeth...	10.767	84	126912	47.63	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.26%
66) 1,2-Dichlorobenzene-d4	12.201	152	88194	47.13	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.26%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.385	85	40272	27.94	ug/L	99
3) Chloromethane	1.523	50	38937	26.42	ug/L	94
5) Vinyl chloride	1.610	62	74927	54.57	ug/L	98
6) Bromomethane	1.838	94	14898	17.19	ug/L	95
8) Chloroethane	1.925	64	25295	28.19	ug/L	99
9) Trichlorofluoromethane	2.137	101	104441	45.96	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.581	101	26534	21.98	ug/L	97
12) 1,1-Dichloroethene	2.584	96	66162	60.24	ug/L	83
16) Methylene chloride	3.051	84	55811	42.68	ug/L	99
17) trans-1,2-Dichloroethene	3.359	96	24408	20.39	ug/L	92
19) 1,1-Dichloroethane	3.877	63	159238	65.10	ug/L	98
20) cis-1,2-Dichloroethene	4.674	96	57203	42.63	ug/L	92
23) Bromochloromethane	4.980	128	29030	40.58	ug/L	94
25) Chloroform	5.096	83	148899	58.66	ug/L	100
27) 1,2-Dichloroethane	5.803	62	165344	71.49	ug/L	100
30) 1,1,1-Trichloroethane	5.324	97	47963	20.66	ug/L	98
31) Carbon tetrachloride	5.533	117	118772	59.87	ug/L	99
33) Benzene	5.780	78	243866	47.15	ug/L	100
34) Trichloroethene	6.549	95	113635	80.78	ug/L	99

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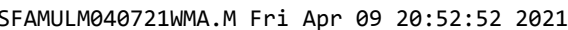
Quant Time: Apr 08 15:31:41 2021
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 Quant Title : VOC Analysis
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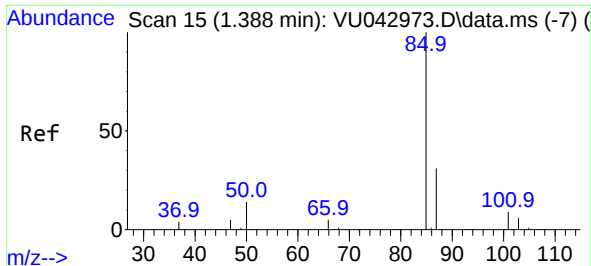
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

37) 1,2-Dichloropropane	6.800	63	58057	40.04	ug/L	99
38) Bromodichloromethane	7.115	83	38296	19.63	ug/L	97
39) cis-1,3-Dichloropropene	7.613	75	53189	24.00	ug/L	97
44) trans-1,3-Dichloropropene	8.218	75	101059	44.76	ug/L	96
45) 1,1,2-Trichloroethane	8.407	97	34779	25.73	ug/L	98
46) Tetrachloroethene	8.562	164	80672	71.76	ug/L	98
49) Dibromochloromethane	8.819	129	60481	37.68	ug/L	98
50) 1,2-Dibromoethane	8.931	107	45681	29.64	ug/L #	96
57) 1,1,2,2-Tetrachloroethane	10.790	83	104032	39.32	ug/L	99
59) Bromoform	10.298	173	64935	49.55	ug/L	100
63) 1,2,4-Trimethylbenzene	11.475	105	268017	50.45	ug/L	99
68) 1,2-Dibromo-3-chloropr...	13.005	75	27207	39.50	ug/L	99

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

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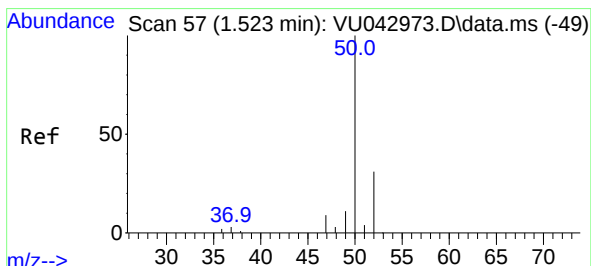
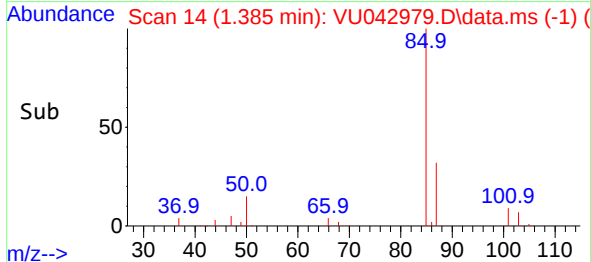
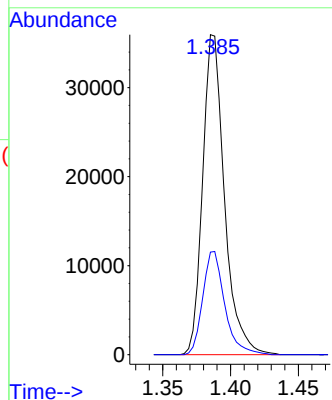
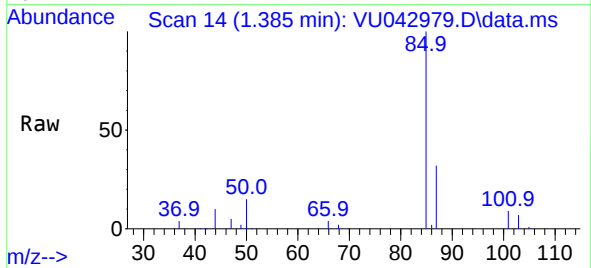




#2
Dichlorodifluoromethane
Concen: 27.94 ug/L
RT: 1.385 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

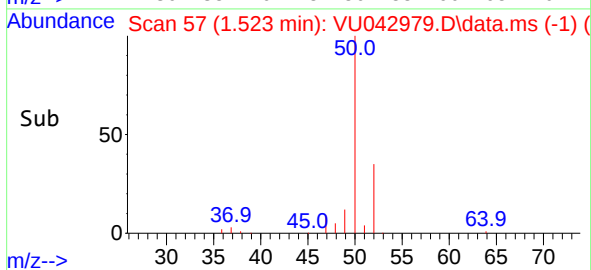
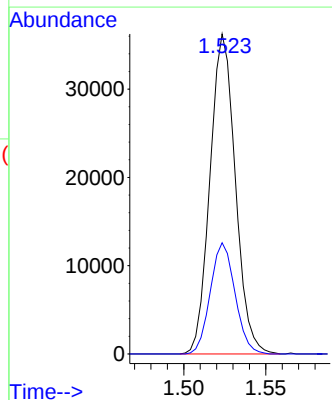
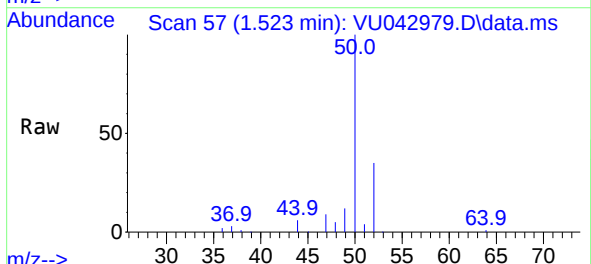
Instrument :
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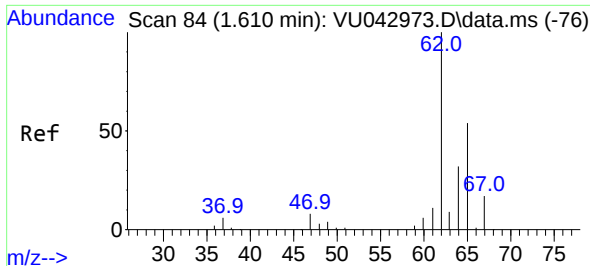
Tgt Ion: 85 Resp: 40272
Ion Ratio Lower Upper
85 100
87 32.5 25.6 38.4



#3
Chloromethane
Concen: 26.42 ug/L
RT: 1.523 min Scan# 57
Delta R.T. 0.000 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

Tgt Ion: 50 Resp: 38937
Ion Ratio Lower Upper
50 100
52 34.8 22.0 41.0

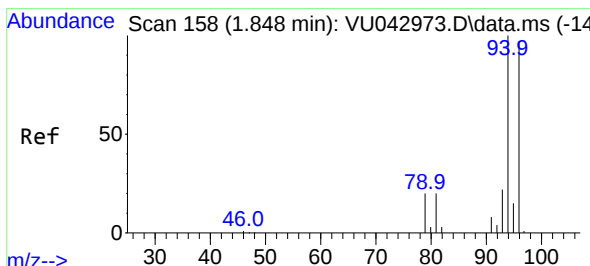
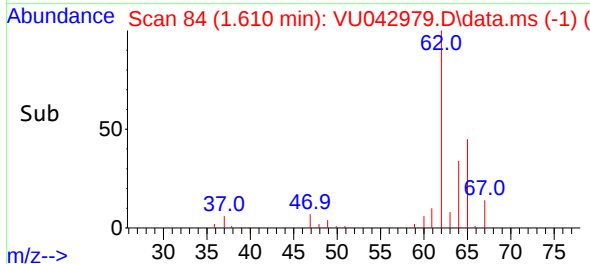
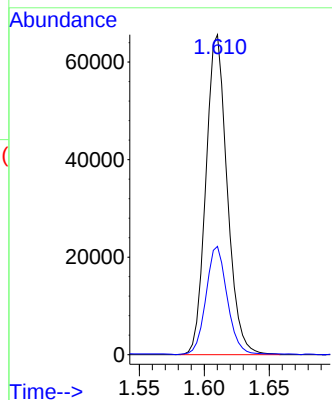
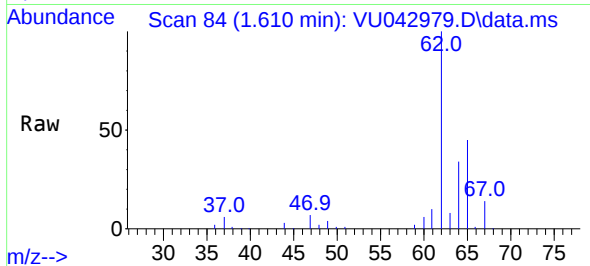




#5
 Vinyl chloride
 Concen: 54.57 ug/L
 RT: 1.610 min Scan# 84
 Delta R.T. 0.000 min
 Lab File: VU042979.D
 Acq: 07 Apr 2021 14:22

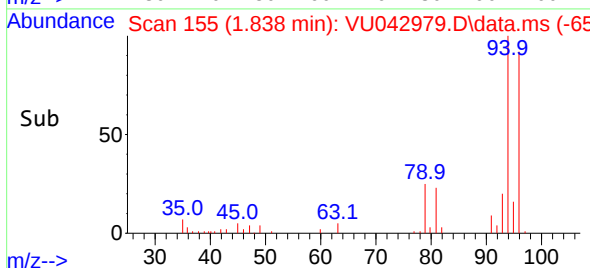
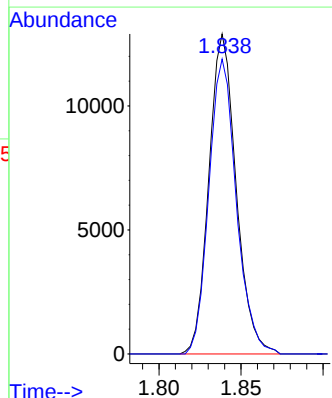
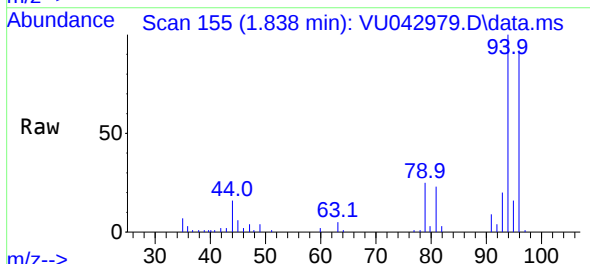
Instrument :
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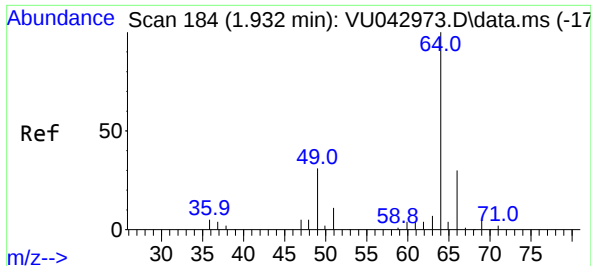
Tgt Ion: 62 Resp: 74927
 Ion Ratio Lower Upper
 62 100
 64 33.8 22.8 42.4



#6
 Bromomethane
 Concen: 17.19 ug/L
 RT: 1.838 min Scan# 155
 Delta R.T. -0.010 min
 Lab File: VU042979.D
 Acq: 07 Apr 2021 14:22

Tgt Ion: 94 Resp: 14898
 Ion Ratio Lower Upper
 94 100
 96 92.2 68.1 126.5

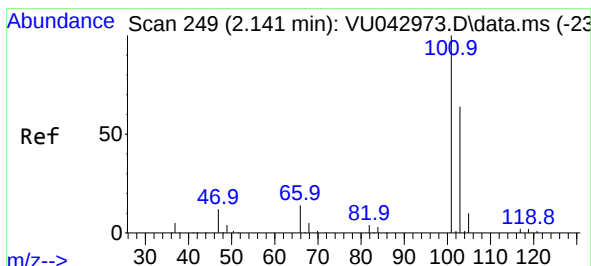
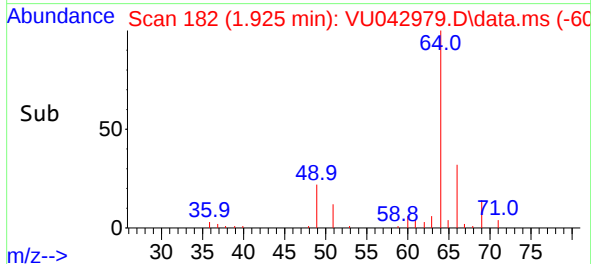
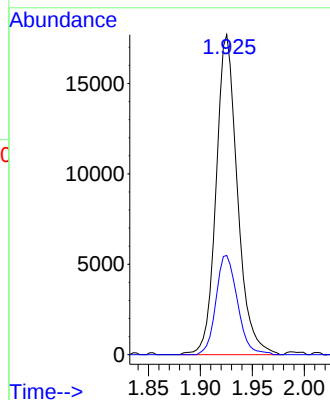
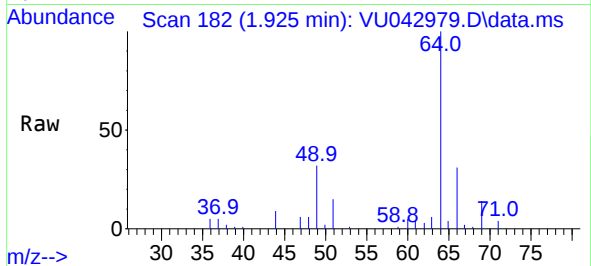




#8
Chloroethane
Concen: 28.19 ug/L
RT: 1.925 min Scan# 182
Delta R.T. -0.006 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

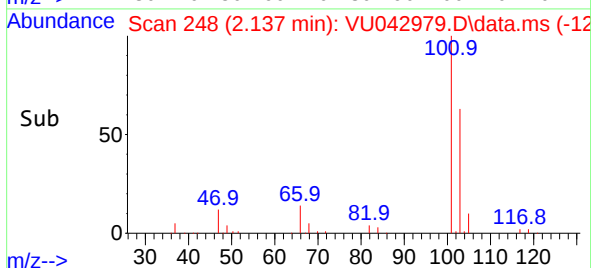
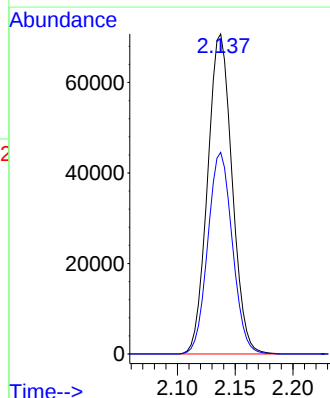
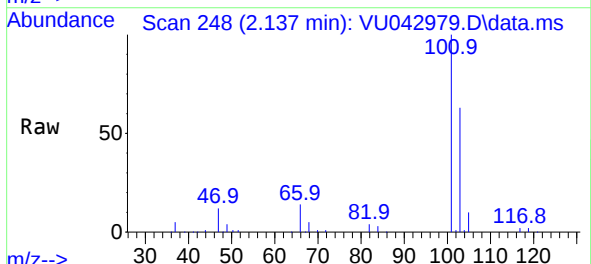
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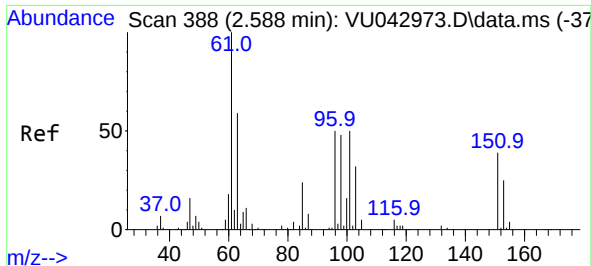
Tgt Ion: 64 Resp: 25295
Ion Ratio Lower Upper
64 100
66 31.0 21.2 39.4



#9
Trichlorofluoromethane
Concen: 45.96 ug/L
RT: 2.137 min Scan# 248
Delta R.T. -0.003 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

Tgt Ion:101 Resp: 104441
Ion Ratio Lower Upper
101 100
103 63.0 51.8 77.8

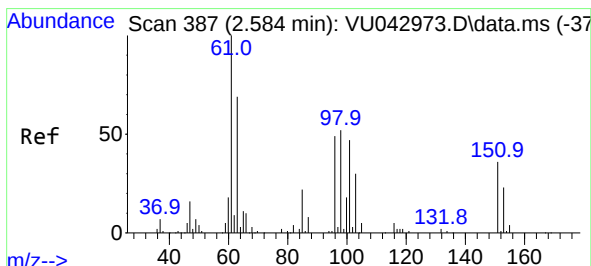
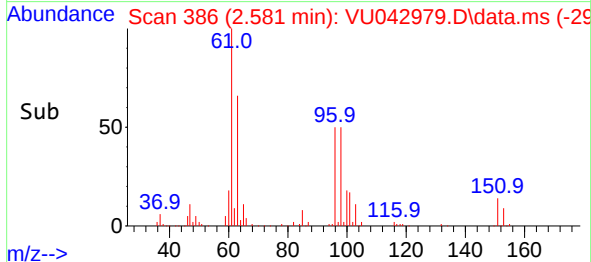
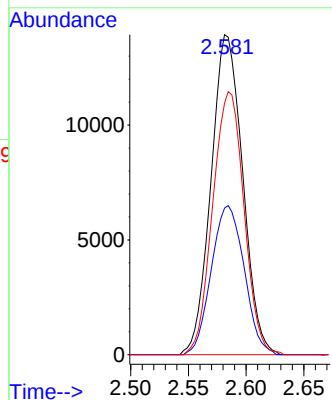
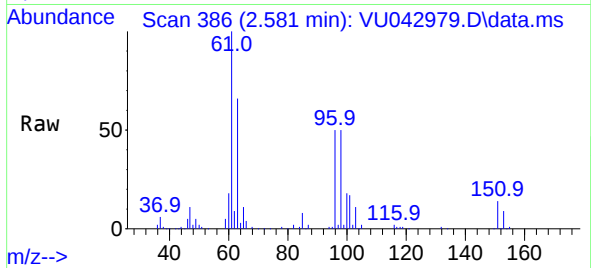




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 21.98 ug/L
RT: 2.581 min Scan# 386
Delta R.T. -0.006 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

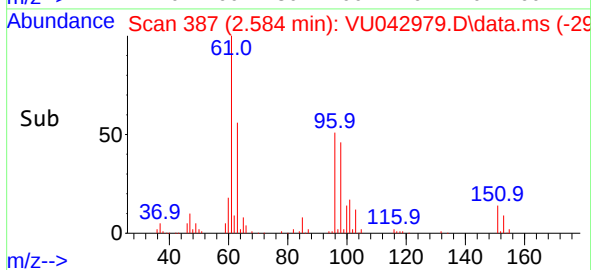
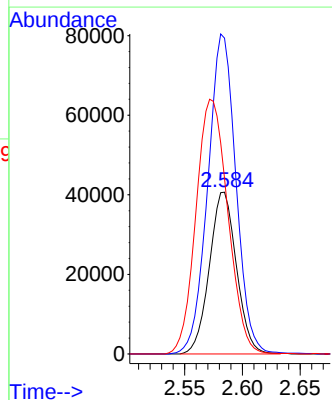
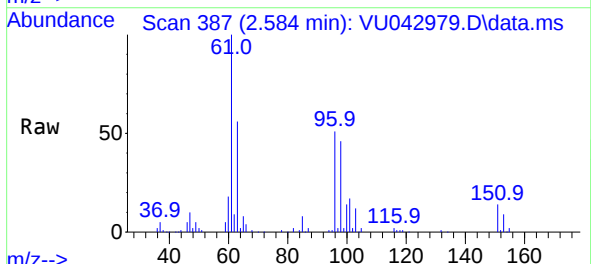
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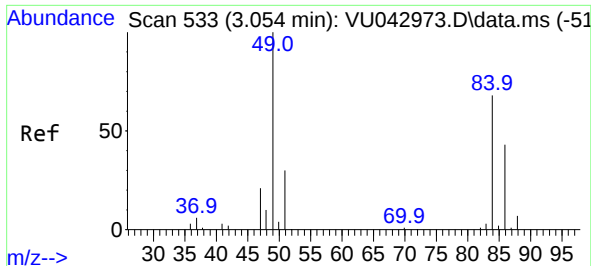
Tgt Ion:101 Resp: 26534
Ion Ratio Lower Upper
101 100
85 48.4 36.9 55.3
151 81.3 63.4 95.2



#12
1,1-Dichloroethene
Concen: 60.24 ug/L
RT: 2.584 min Scan# 387
Delta R.T. 0.000 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

Tgt Ion: 96 Resp: 66162
Ion Ratio Lower Upper
96 100
61 195.2 143.8 267.0
63 108.5 104.1 193.3

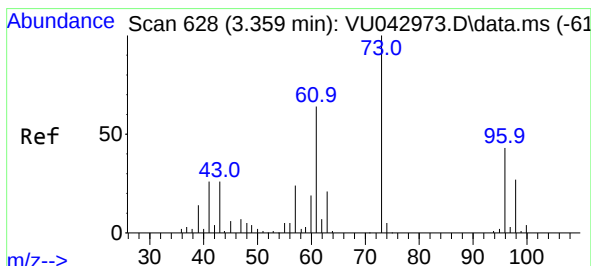
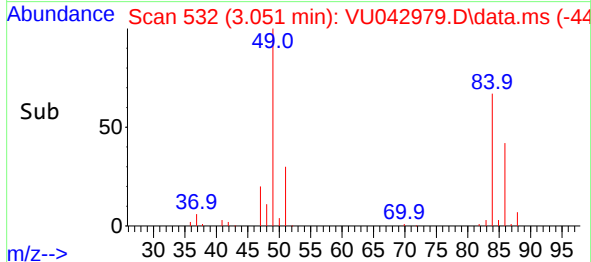
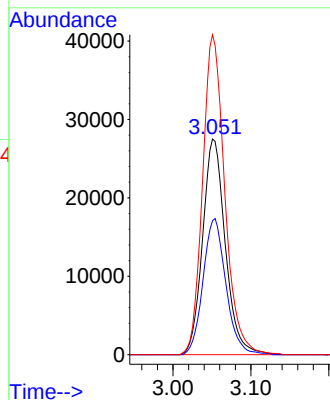
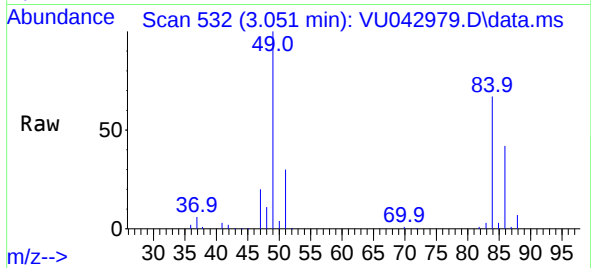




#16
Methylene chloride
Concen: 42.68 ug/L
RT: 3.051 min Scan# 532
Delta R.T. -0.003 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

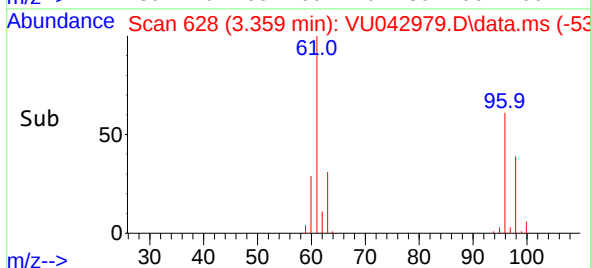
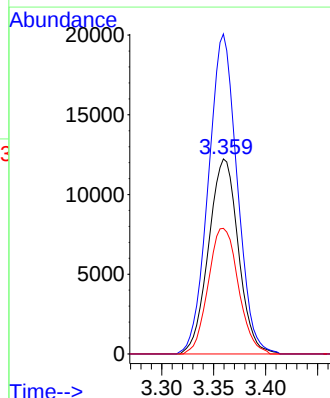
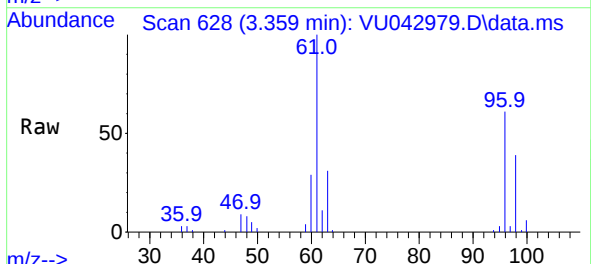
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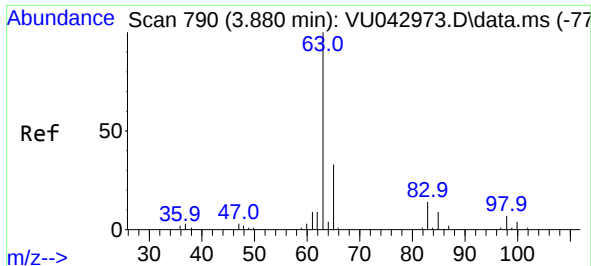
Tgt Ion: 84 Resp: 55811
Ion Ratio Lower Upper
84 100
86 62.1 44.7 82.9
49 148.4 103.0 191.2



#17
trans-1,2-Dichloroethene
Concen: 20.39 ug/L
RT: 3.359 min Scan# 628
Delta R.T. 0.000 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

Tgt Ion: 96 Resp: 24408
Ion Ratio Lower Upper
96 100
61 164.1 105.4 195.8
98 64.4 43.8 81.4



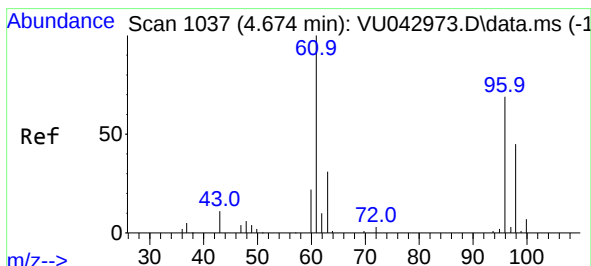
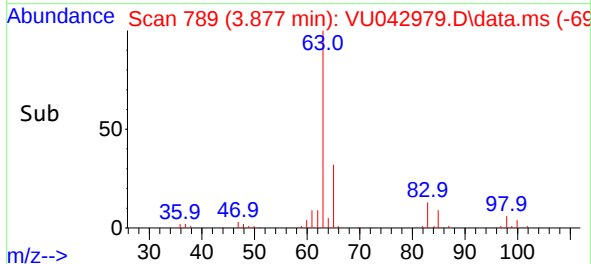
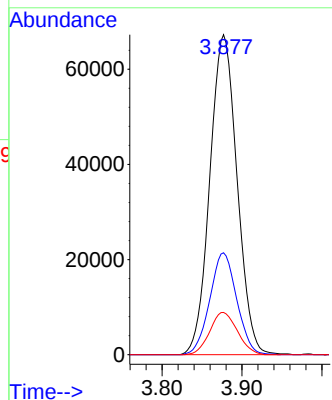
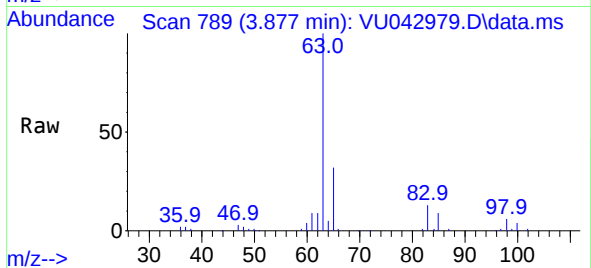


#19

1,1-Dichloroethane
Concen: 65.10 ug/L
RT: 3.877 min Scan# 789
Delta R.T. -0.003 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

Instrument :
MSVOA_U
ClientSampleId :
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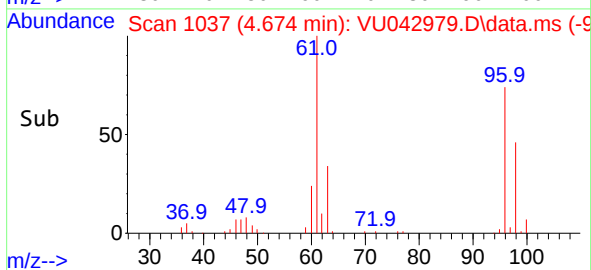
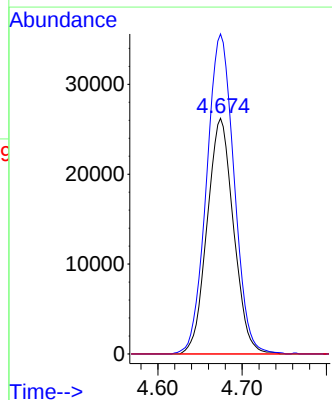
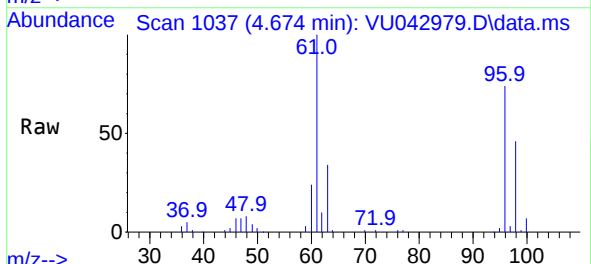
Tgt Ion: 63 Resp: 159238
Ion Ratio Lower Upper
63 100
65 31.9 22.8 42.4
83 13.2 9.9 18.5

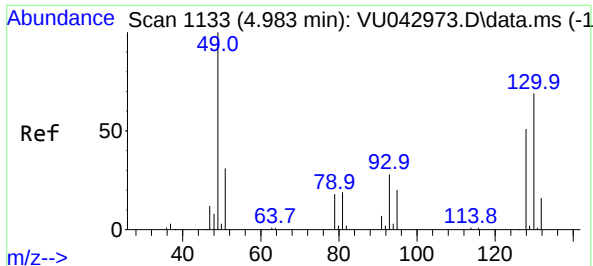


#20

cis-1,2-Dichloroethene
Concen: 42.63 ug/L
RT: 4.674 min Scan# 1037
Delta R.T. 0.000 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

Tgt Ion: 96 Resp: 57203
Ion Ratio Lower Upper
96 100
61 135.8 101.9 189.3
68 0.0 0.0 0.0



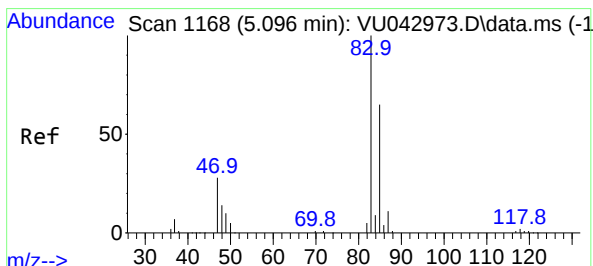
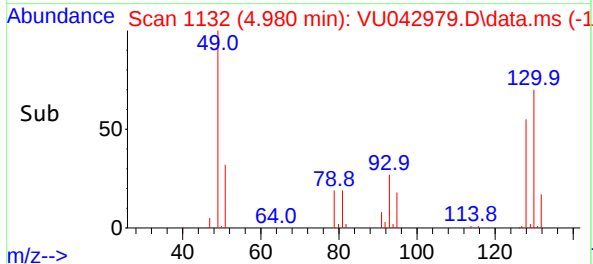
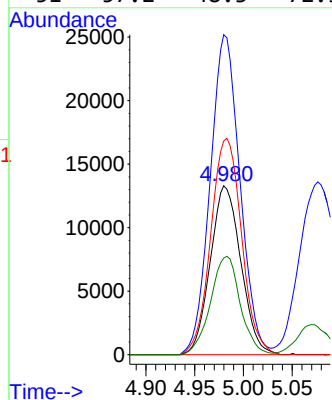
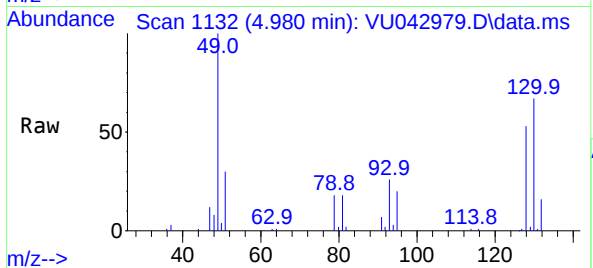


#23
Bromochloromethane
Concen: 40.58 ug/L
RT: 4.980 min Scan# 1132
Delta R.T. -0.003 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

Instrument :
MSVOA_U
ClientSampleId :
X3306

Tgt Ion:128 Resp: 29030

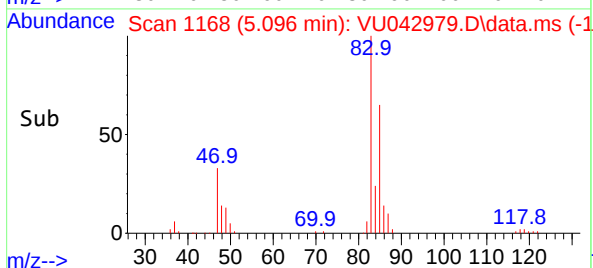
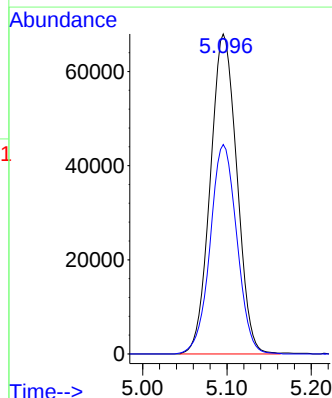
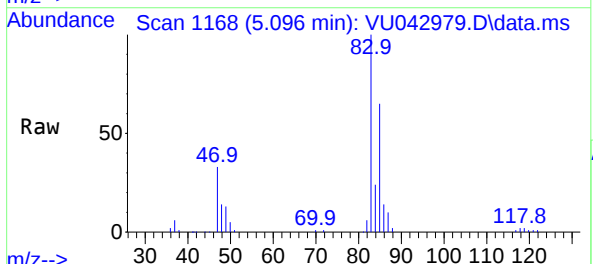
Ion	Ratio	Lower	Upper
128	100		
49	189.4	138.5	257.3
130	126.5	95.1	176.5
51	57.2	48.3	72.5

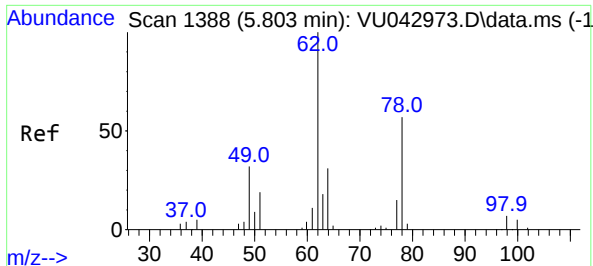


#25
Chloroform
Concen: 58.66 ug/L
RT: 5.096 min Scan# 1168
Delta R.T. 0.000 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

Tgt Ion: 83 Resp: 148899

Ion	Ratio	Lower	Upper
83	100		
85	65.5	45.8	85.0

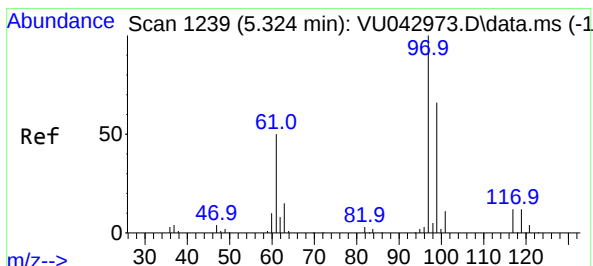
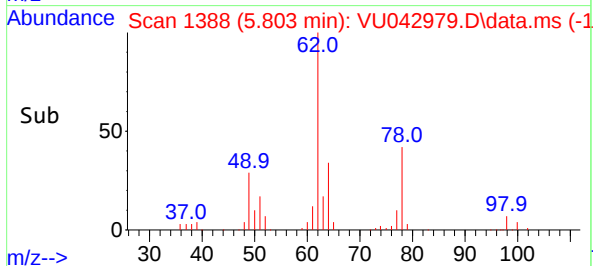
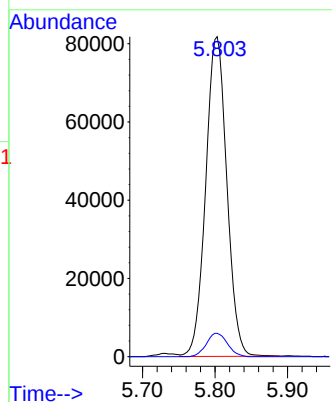
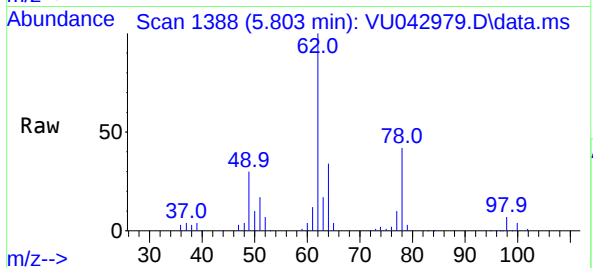




#27
1,2-Dichloroethane
Concen: 71.49 ug/L
RT: 5.803 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

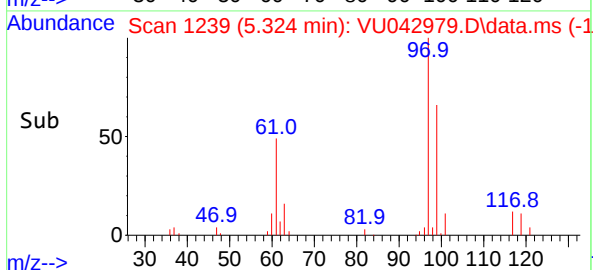
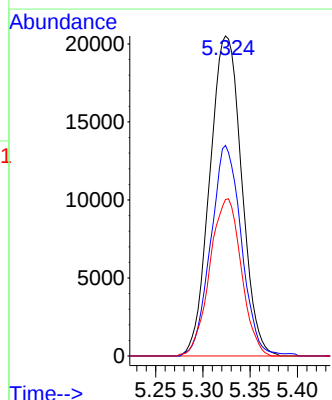
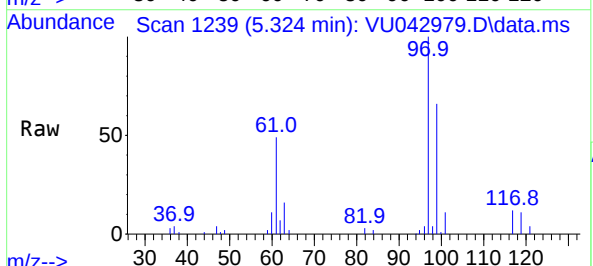
Instrument :
MSVOA_U
ClientSampleId :
X3306

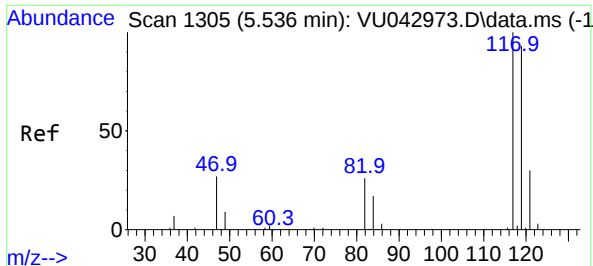
Tgt Ion: 62 Resp: 165344
Ion Ratio Lower Upper
62 100
98 7.3 5.9 8.9



#30
1,1,1-Trichloroethane
Concen: 20.66 ug/L
RT: 5.324 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

Tgt Ion: 97 Resp: 47963
Ion Ratio Lower Upper
97 100
99 63.3 52.2 78.2
61 48.6 39.2 58.8

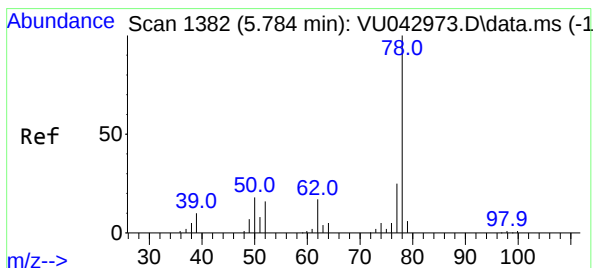
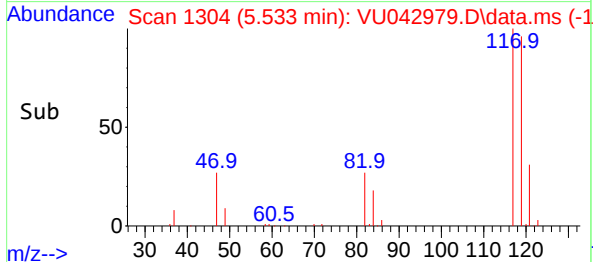
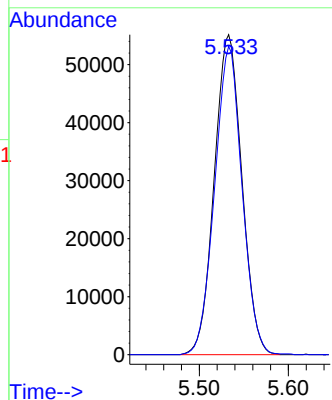
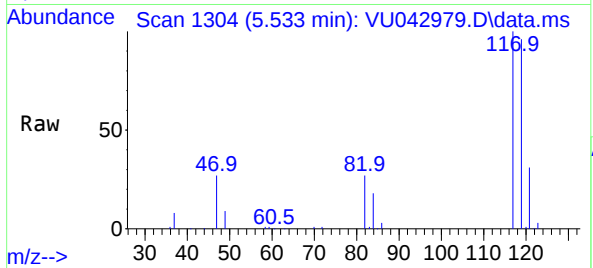




#31
Carbon tetrachloride
Concen: 59.87 ug/L
RT: 5.533 min Scan# 1304
Delta R.T. -0.003 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

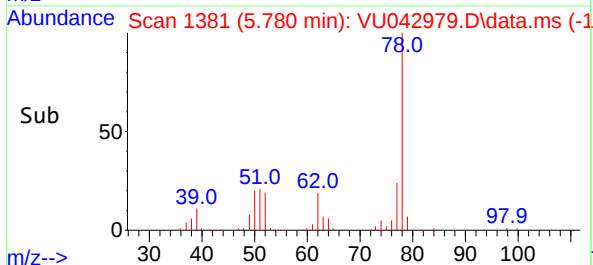
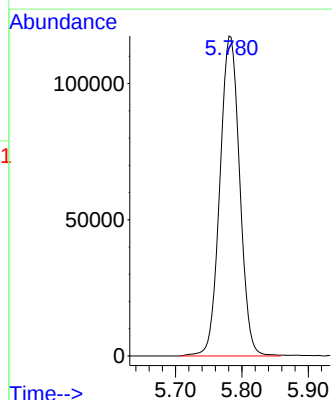
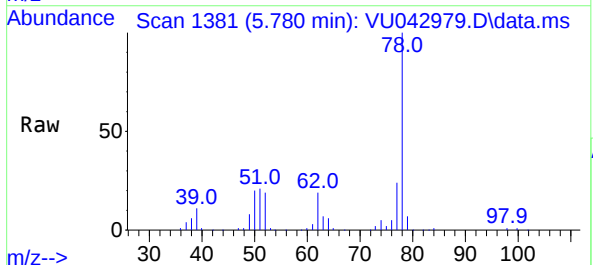
Instrument :
MSVOA_U
ClientSampleId :
X3306

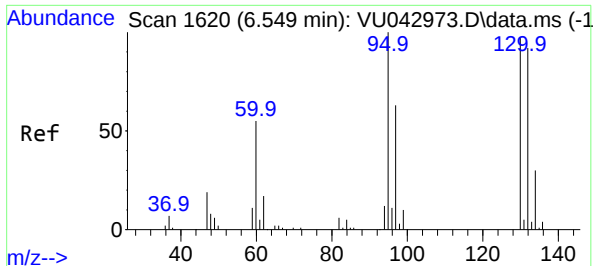
Tgt Ion:117 Resp: 118772
Ion Ratio Lower Upper
117 100
119 95.7 75.8 113.8



#33
Benzene
Concen: 47.15 ug/L
RT: 5.780 min Scan# 1381
Delta R.T. -0.003 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

Tgt Ion: 78 Resp: 243866

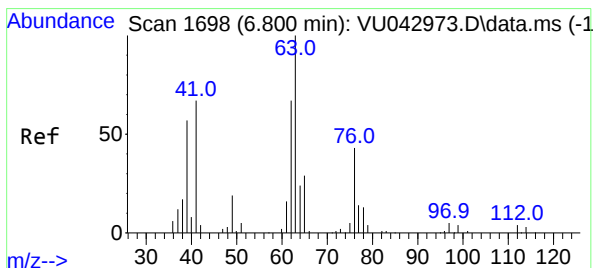
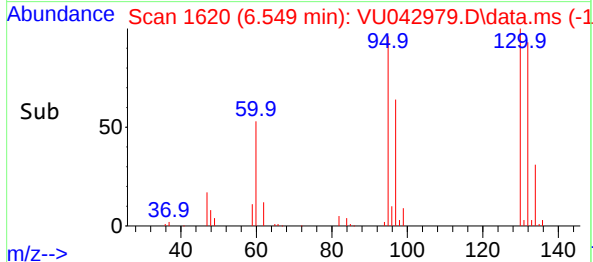
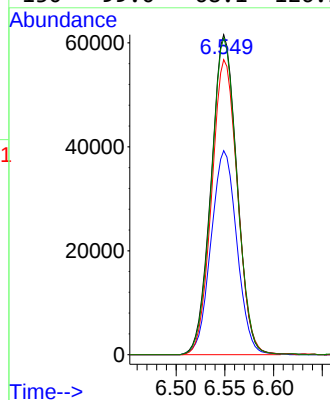
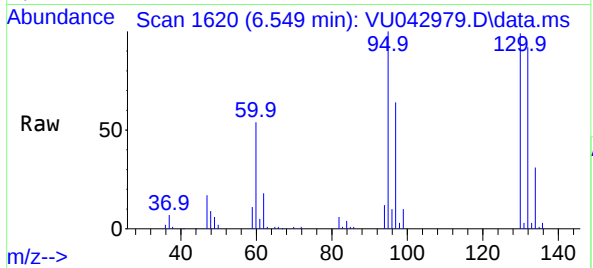




#34
Trichloroethene
Concen: 80.78 ug/L
RT: 6.549 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

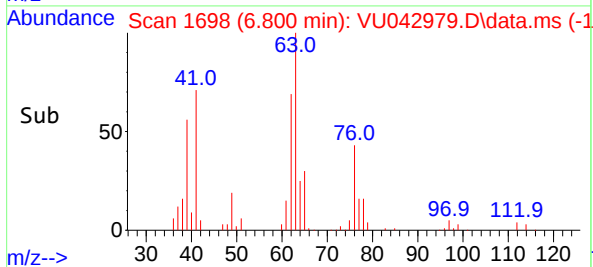
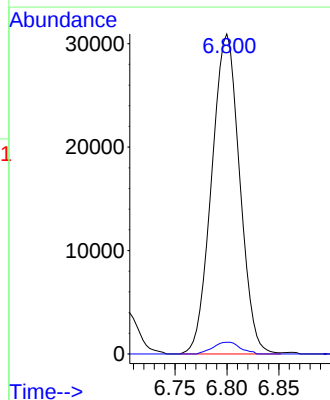
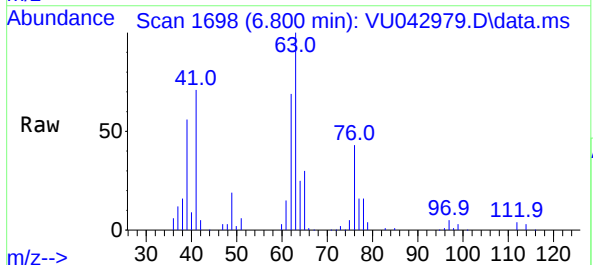
Instrument :
MSVOA_U
ClientSampleId :
X3306

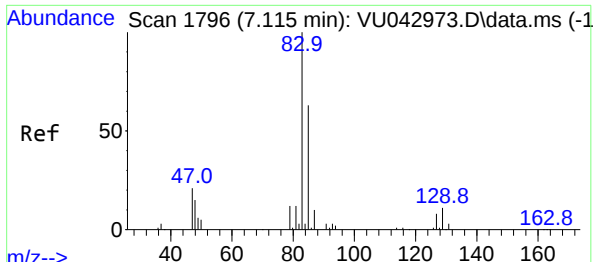
Tgt Ion: 95 Resp: 113635
Ion Ratio Lower Upper
95 100
97 63.8 44.2 82.2
132 92.2 64.7 120.1
130 99.0 68.1 126.5



#37
1,2-Dichloropropane
Concen: 40.04 ug/L
RT: 6.800 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

Tgt Ion: 63 Resp: 58057
Ion Ratio Lower Upper
63 100
112 3.6 3.0 4.6

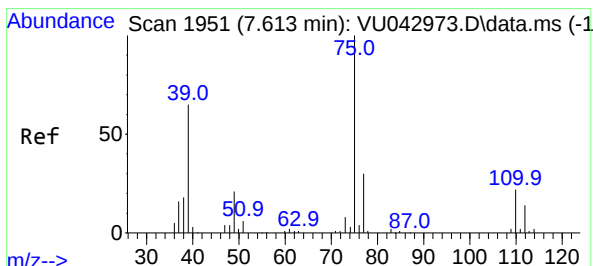
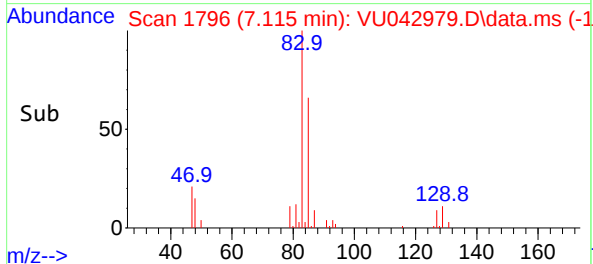
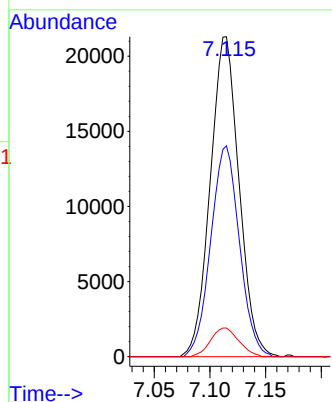
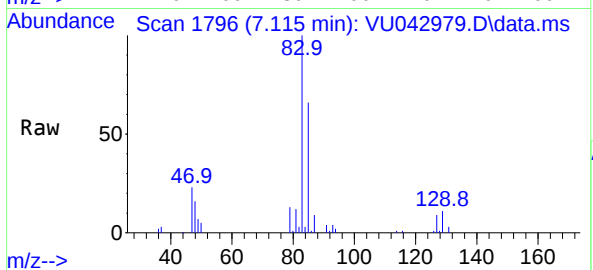




#38
Bromodichloromethane
Concen: 19.63 ug/L
RT: 7.115 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

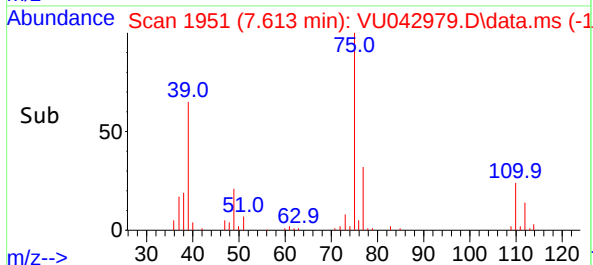
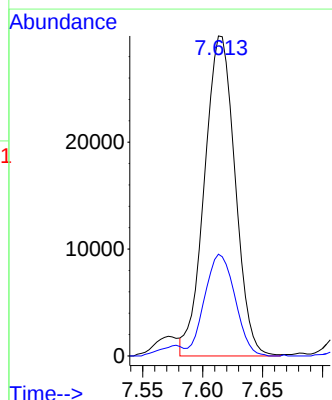
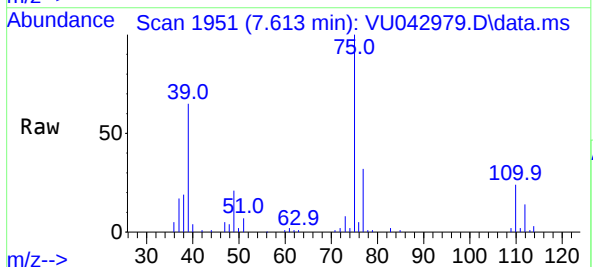
Instrument :
MSVOA_U
ClientSampleId :
X3306

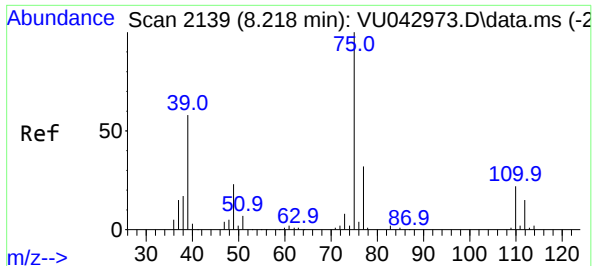
Tgt Ion: 83 Resp: 38296
Ion Ratio Lower Upper
83 100
85 65.9 44.2 82.0
127 8.9 6.5 9.7



#39
cis-1,3-Dichloropropene
Concen: 24.00 ug/L
RT: 7.613 min Scan# 1951
Delta R.T. 0.000 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

Tgt Ion: 75 Resp: 53189
Ion Ratio Lower Upper
75 100
77 31.8 21.3 39.5

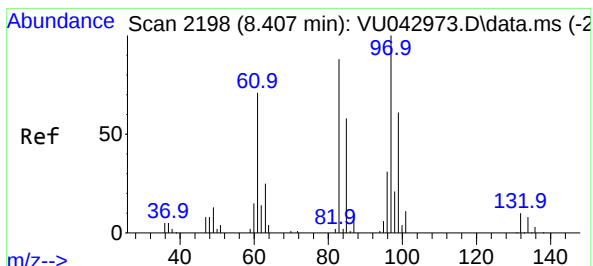
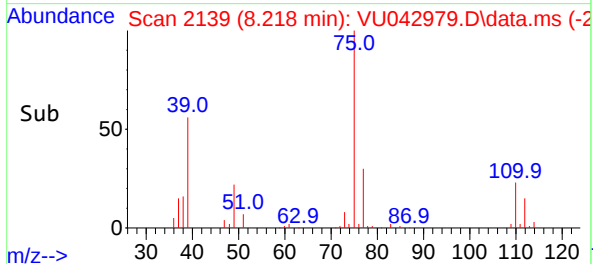
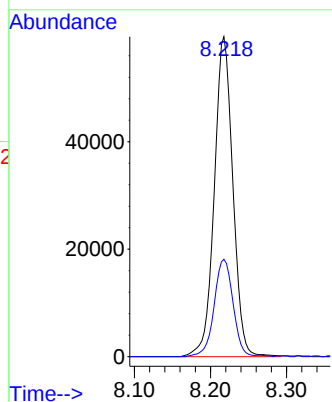
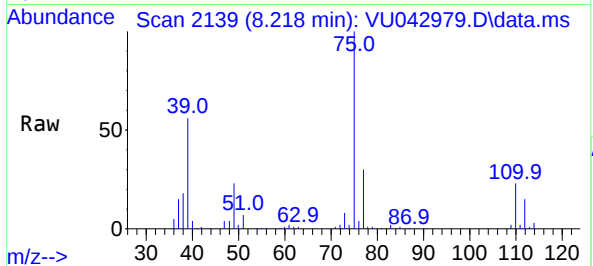




#44
trans-1,3-Dichloropropene
Concen: 44.76 ug/L
RT: 8.218 min Scan# 2139
Delta R.T. 0.000 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

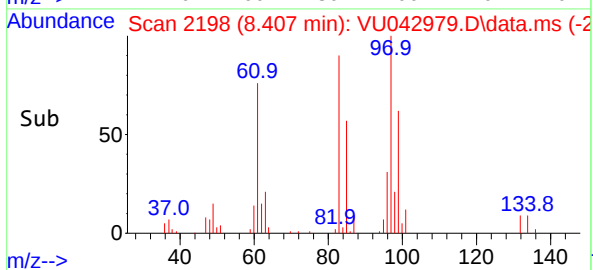
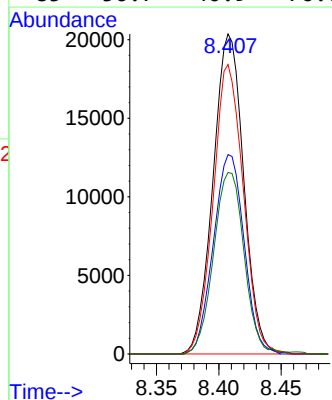
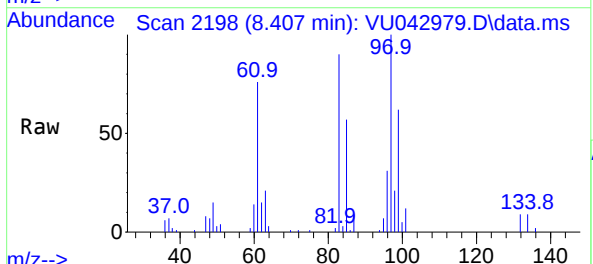
Instrument :
MSVOA_U
ClientSampled :
X3306

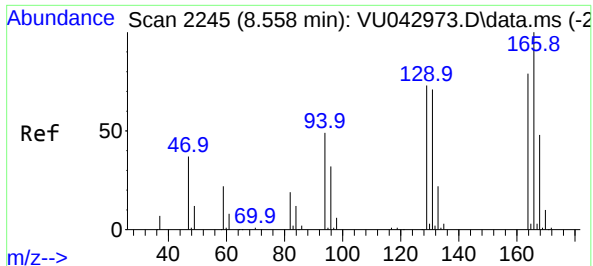
Tgt Ion: 75 Resp: 101059
Ion Ratio Lower Upper
75 100
77 30.4 22.7 42.3



#45
1,1,2-Trichloroethane
Concen: 25.73 ug/L
RT: 8.407 min Scan# 2198
Delta R.T. 0.000 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

Tgt Ion: 97 Resp: 34779
Ion Ratio Lower Upper
97 100
99 62.3 42.9 79.7
83 90.5 61.4 114.0
85 56.7 40.9 76.0

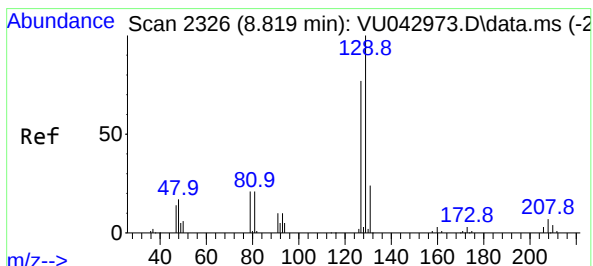
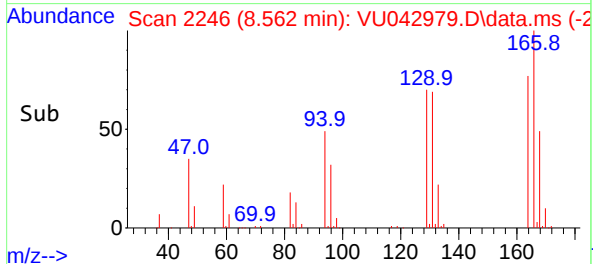
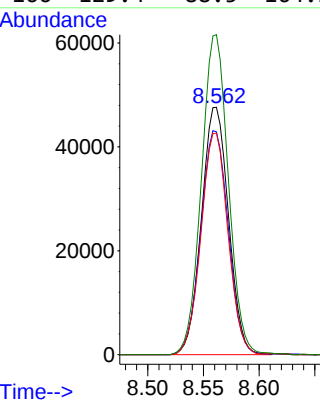
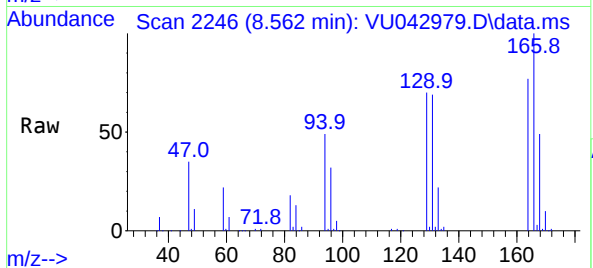




#46
Tetrachloroethene
Concen: 71.76 ug/L
RT: 8.562 min Scan# 2246
Delta R.T. 0.003 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

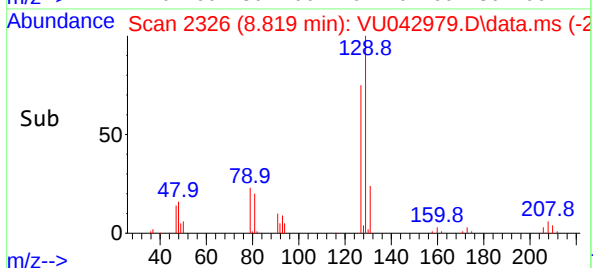
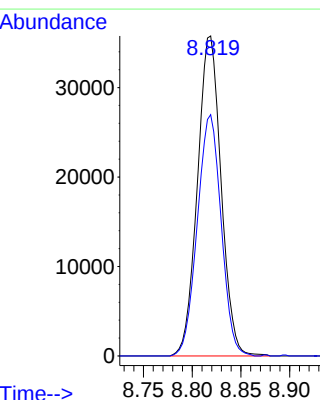
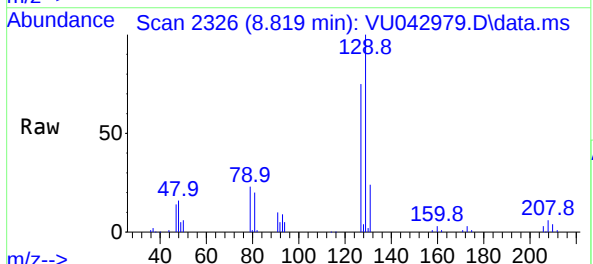
Instrument :
MSVOA_U
ClientSampleId :
X3306

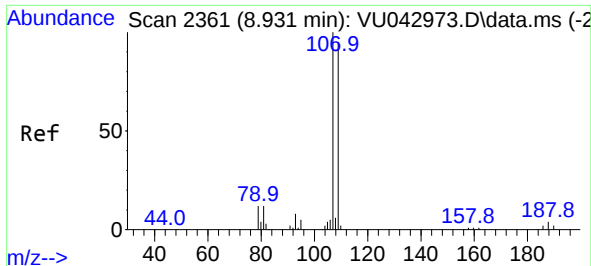
Tgt Ion:164 Resp: 80672
Ion Ratio Lower Upper
164 100
129 90.1 64.8 120.4
131 89.6 62.8 116.6
166 129.4 88.5 164.3



#49
Dibromochloromethane
Concen: 37.68 ug/L
RT: 8.819 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

Tgt Ion:129 Resp: 60481
Ion Ratio Lower Upper
129 100
127 75.4 53.7 99.7

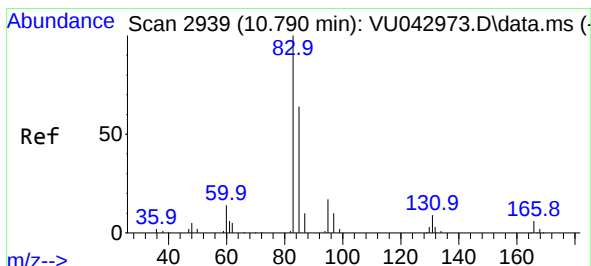
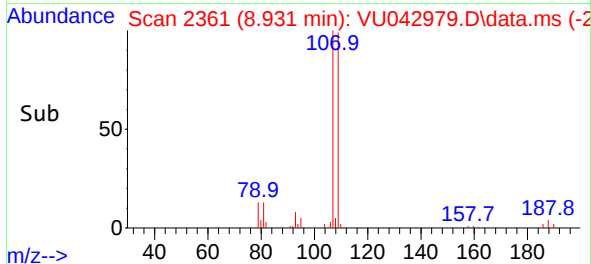
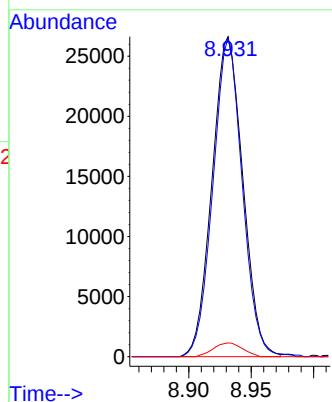
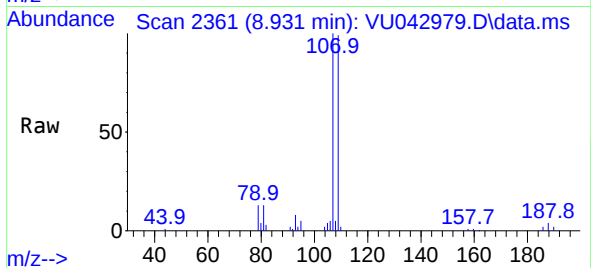




#50
1,2-Dibromoethane
Concen: 29.64 ug/L
RT: 8.931 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

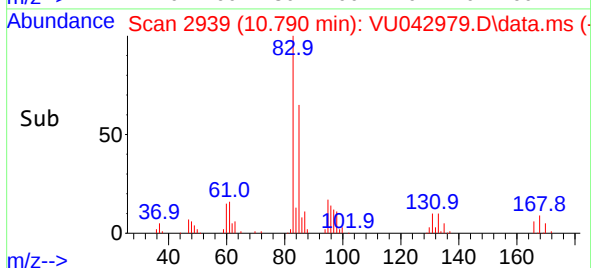
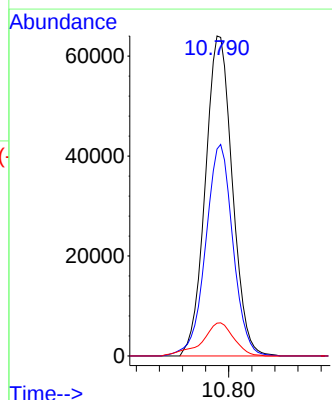
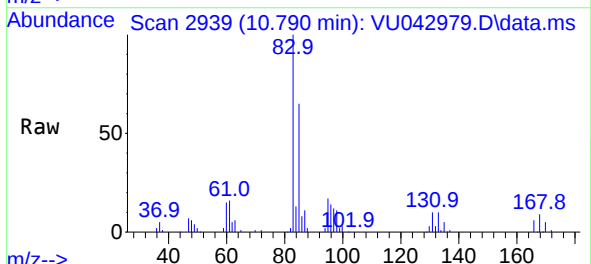
Instrument :
MSVOA_U
ClientSampled :
X3306

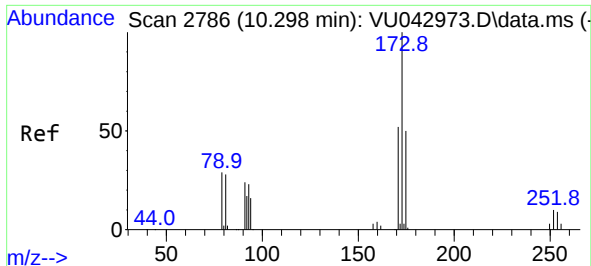
Tgt Ion:107 Resp: 45681
Ion Ratio Lower Upper
107 100
109 99.5 66.7 123.9
188 4.3 2.8 4.2#



#57
1,1,2,2-Tetrachloroethane
Concen: 39.32 ug/L
RT: 10.790 min Scan# 2939
Delta R.T. 0.000 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

Tgt Ion: 83 Resp: 104032
Ion Ratio Lower Upper
83 100
85 64.7 45.8 85.2
131 10.2 8.0 12.0

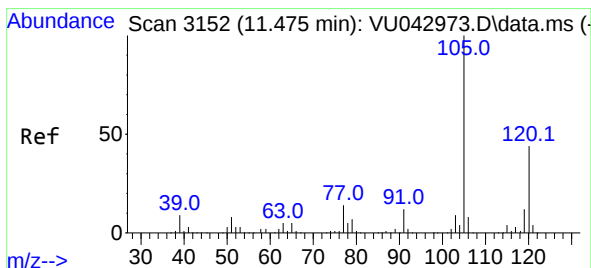
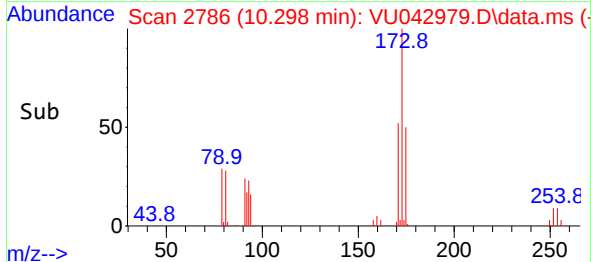
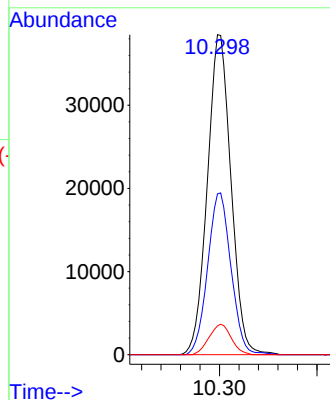
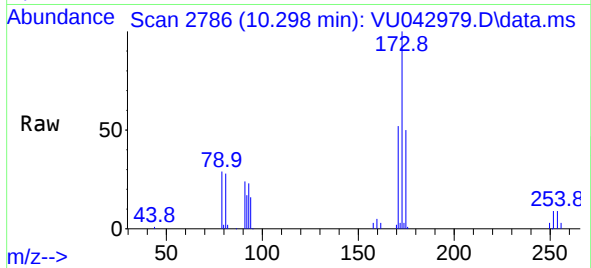




#59
Bromoform
Concen: 49.55 ug/L
RT: 10.298 min Scan# 2786
Delta R.T. 0.000 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

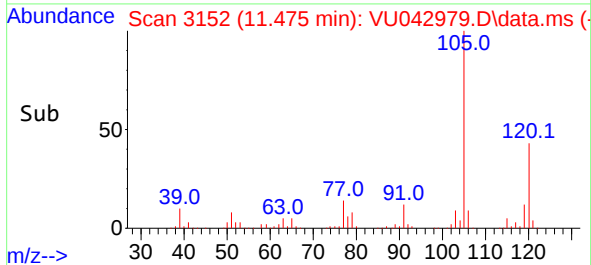
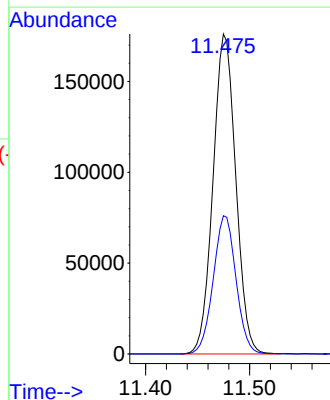
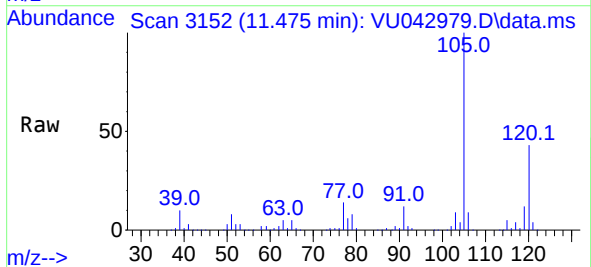
Tgt Ion:	173	Resp:	64935
Ion	Ratio	Lower	Upper
173	100		
175	49.8	39.8	59.8
254	8.9	7.2	10.8

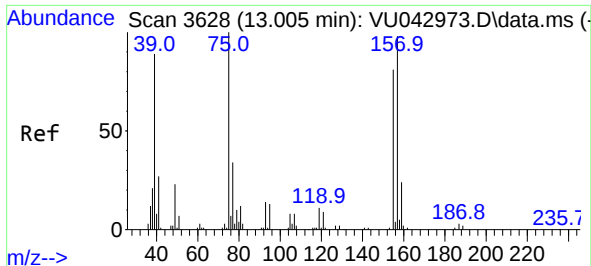
Instrument :
MSVOA_U
ClientSampleId :
X3306



#63
1,2,4-Trimethylbenzene
Concen: 50.45 ug/L
RT: 11.475 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VU042979.D
Acq: 07 Apr 2021 14:22

Tgt Ion:	105	Resp:	268017
Ion	Ratio	Lower	Upper
105	100		
120	43.2	35.0	52.6





#68
 1,2-Dibromo-3-chloropropane
 Concen: 39.50 ug/L
 RT: 13.005 min Scan# 3628
 Delta R.T. 0.000 min
 Lab File: VU042979.D
 Acq: 07 Apr 2021 14:22

Instrument :
 MSVOA_U
 ClientSampleId :
 X3306

Tgt Ion: 75 Resp: 27207
 Ion Ratio Lower Upper
 75 100
 155 80.7 64.5 96.7
 157 99.8 78.5 117.7

