

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020521\
 Data File : VU042282.D
 Acq On : 05 Feb 2021 16:45
 Operator : SY/MD
 Sample : M1327-01DL 50X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 X2Z60DL

Quant Time: Feb 06 07:26:20 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	6.259	114	187517	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.426	117	175012	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.819	152	91429	50.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	64598	45.77	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	91.54%		
7) Chloroethane-d5	1.916	69	47735	49.32	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	98.64%		
11) 1,1-Dichloroethene-d2	2.575	63	124452	41.32	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	82.64%		
21) 2-Butanone-d5	4.636	46	144480	98.95	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	98.95%		
24) Chloroform-d	5.073	84	132130	46.62	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	93.24%		
26) 1,2-Dichloroethane-d4	5.713	65	98289	49.02	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	98.04%		
32) Benzene-d6	5.735	84	245064	48.19	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	96.38%		
36) 1,2-Dichloropropane-d6	6.700	67	82572	48.62	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	97.24%		
41) Toluene-d8	7.906	98	229239	47.59	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	95.18%		
43) trans-1,3-Dichloroprop...	8.185	79	42552	48.19	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	96.38%		
47) 2-Hexanone-d5	8.642	63	95512	99.45	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	99.45%		
56) 1,1,2,2-Tetrachloroeth...	10.764	84	119299	47.18	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	94.36%		
66) 1,2-Dichlorobenzene-d4	12.201	152	91354	47.65	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	95.30%		
Target Compounds						
						Qvalue
8) Chloroethane	1.938	64	14151	18.12	ug/L	99
12) 1,1-Dichloroethene	2.584	96	24606	20.44	ug/L	# 17
16) Methylene chloride	3.054	84	14412	10.59	ug/L	95
18) Methyl tert-butyl Ether	3.372	73	106460	23.59	ug/L	99
25) Chloroform	5.099	83	20379	7.73	ug/L	97
30) 1,1,1-Trichloroethane	5.327	97	25275	10.55	ug/L	98
31) Carbon tetrachloride	5.533	117	42228	20.50	ug/L	98
33) Benzene	5.784	78	120143	22.45	ug/L	100
34) Trichloroethene	6.552	95	51996	37.09	ug/L	98
38) Bromodichloromethane	7.115	83	41671	20.69	ug/L	96
39) cis-1,3-Dichloropropene	7.616	75	15955	6.84	ug/L	95
40) 4-Methyl-2-pentanone	7.803	43	139780	47.25	ug/L	99
42) Toluene	7.976	91	265576	46.46	ug/L	99
44) trans-1,3-Dichloropropene	8.218	75	100482	43.71	ug/L	98
45) 1,1,2-Trichloroethane	8.407	97	77517	56.41	ug/L	98
46) Tetrachloroethene	8.562	164	35872	32.38	ug/L	99
48) 2-Hexanone	8.697	43	118992	49.68	ug/L	96
49) Dibromochloromethane	8.819	129	37544	23.46	ug/L	100
50) 1,2-Dibromoethane	8.931	107	7649	4.96	ug/L	99

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

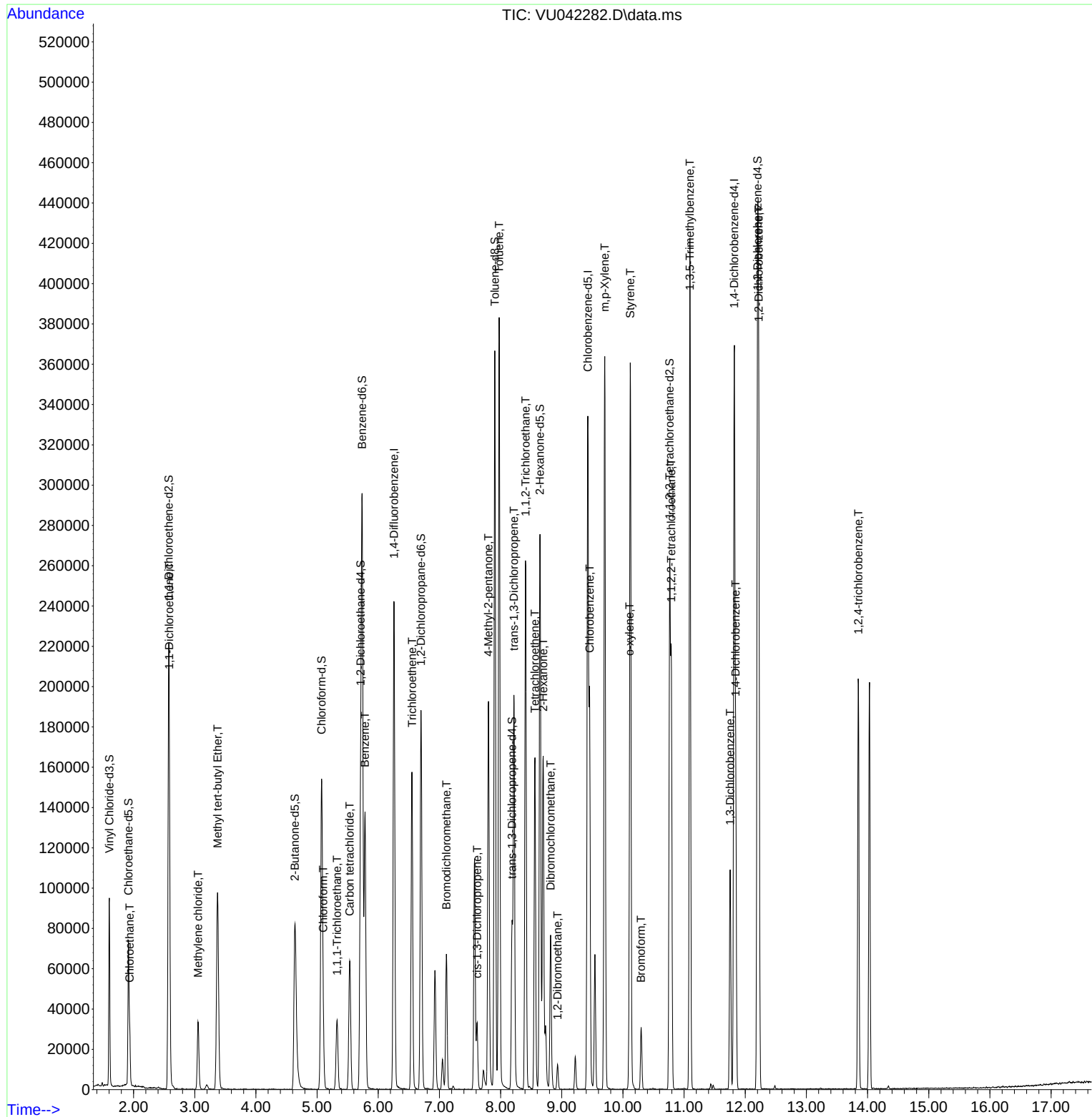
51) Chlorobenzene	9.455	112	90514	24.95	ug/L	99
53) m,p-Xylene	9.703	106	95999	40.46	ug/L	100
54) o-xylene	10.108	106	13486	5.71	ug/L	96
55) Styrene	10.121	104	154442	38.28	ug/L	95
57) 1,1,2,2-Tetrachloroethane	10.790	83	94986	37.97	ug/L	99
59) Bromoform	10.298	173	13777	10.74	ug/L	98
62) 1,3,5-Trimethylbenzene	11.095	105	216774	41.16	ug/L	98
64) 1,3-Dichlorobenzene	11.754	146	42581	14.84	ug/L	99
65) 1,4-Dichlorobenzene	11.844	146	57651	19.72	ug/L	100
67) 1,2-Dichlorobenzene	12.221	146	109753	37.21	ug/L	99
70) 1,2,4-trichlorobenzene	13.848	180	61686	33.24	ug/L	99

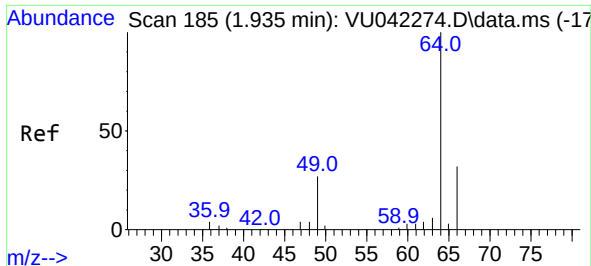
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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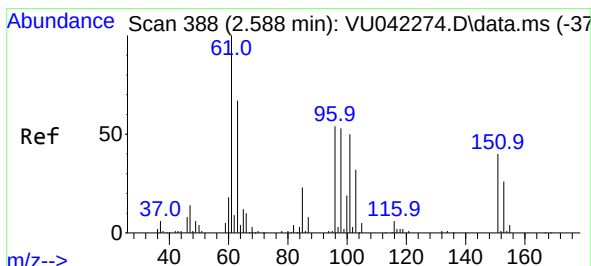
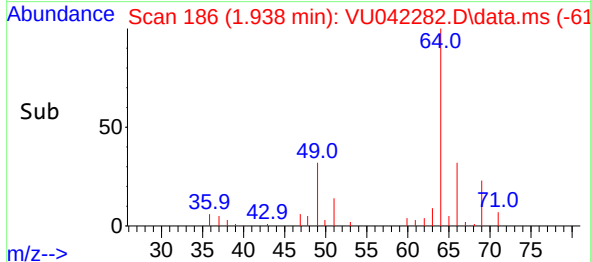
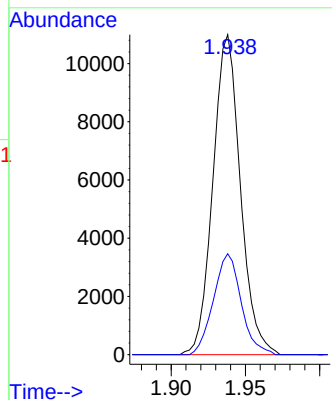
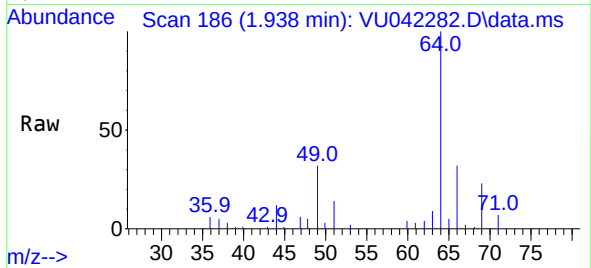




#8
Chloroethane
Concen: 18.12 ug/L
RT: 1.938 min Scan# 186
Delta R.T. 0.003 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

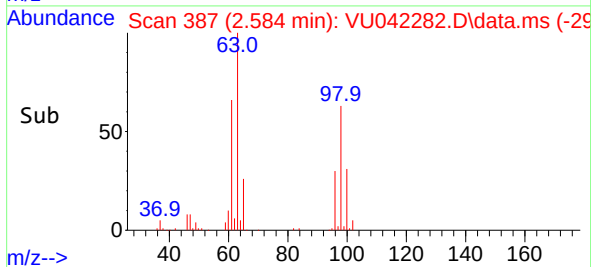
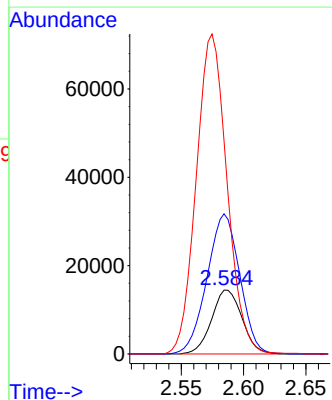
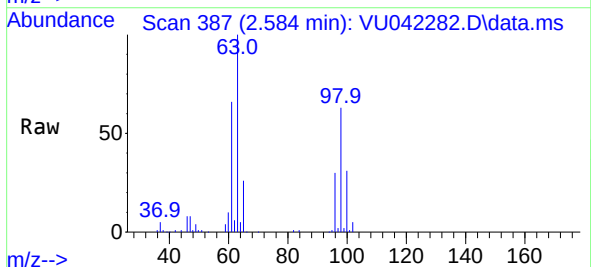
Instrument :
MSVOA_U
ClientSampled :
X2Z60DL

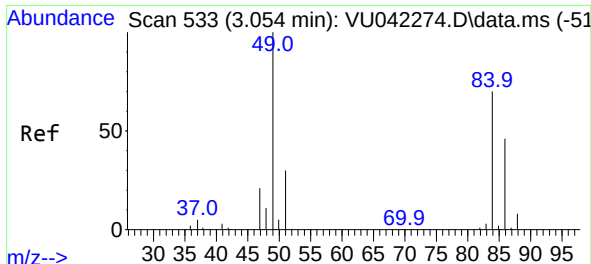
Tgt Ion: 64 Resp: 14151
Ion Ratio Lower Upper
64 100
66 31.5 22.5 41.7



#12
1,1-Dichloroethene
Concen: 20.44 ug/L
RT: 2.584 min Scan# 387
Delta R.T. -0.004 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

Tgt Ion: 96 Resp: 24606
Ion Ratio Lower Upper
96 100
61 219.5 131.6 244.4
63 333.8 92.6 172.0#

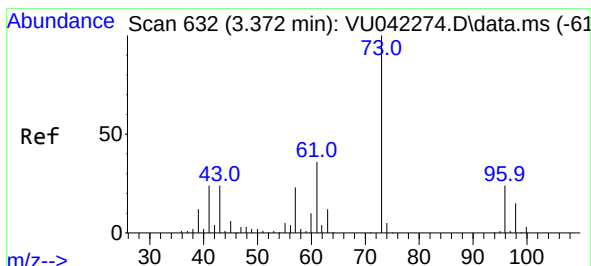
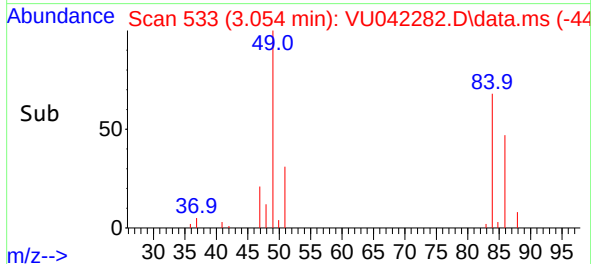
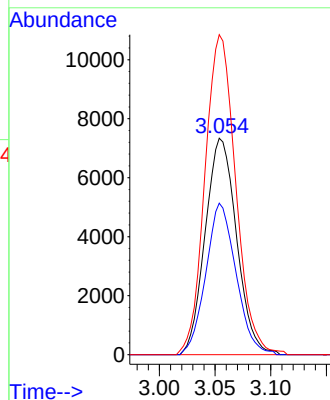
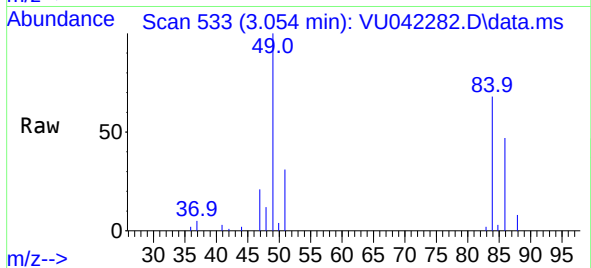




#16
Methylene chloride
Concen: 10.59 ug/L
RT: 3.054 min Scan# 533
Delta R.T. -0.000 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

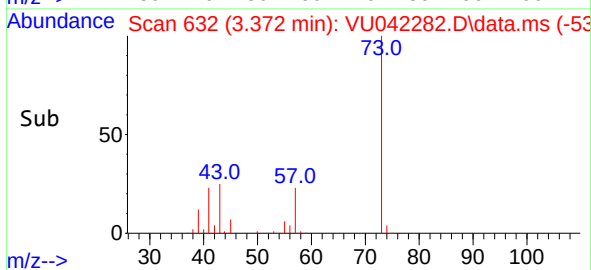
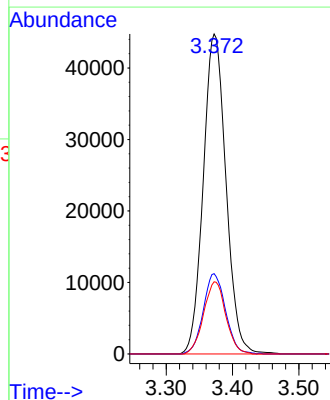
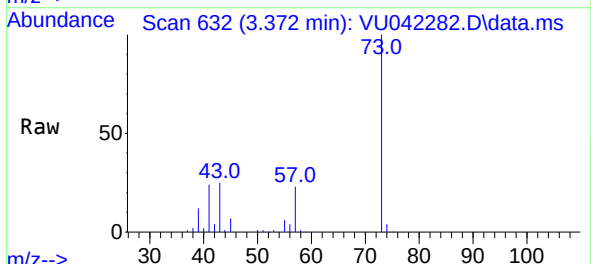
Instrument :
MSVOA_U
ClientSampled :
X2Z60DL

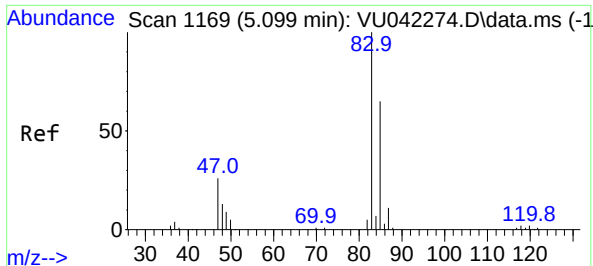
Tgt Ion: 84 Resp: 14412
Ion Ratio Lower Upper
84 100
86 70.0 46.0 85.4
49 147.8 99.5 184.9



#18
Methyl tert-butyl Ether
Concen: 23.59 ug/L
RT: 3.372 min Scan# 632
Delta R.T. -0.000 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

Tgt Ion: 73 Resp: 106460
Ion Ratio Lower Upper
73 100
43 24.5 19.4 29.0
57 22.1 18.2 27.2



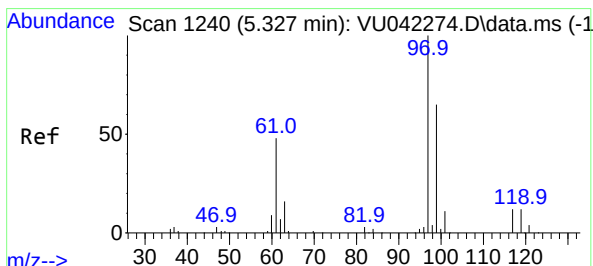
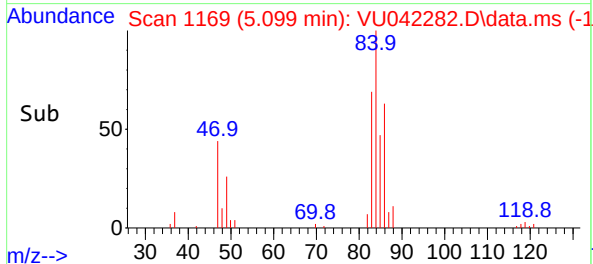
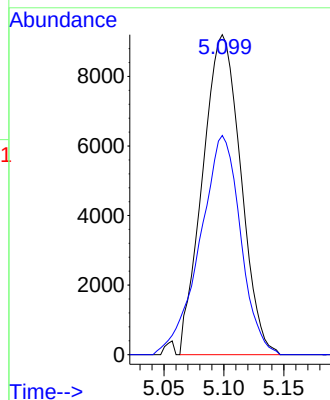
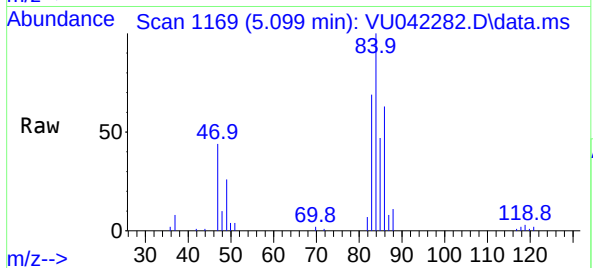


#25

Chloroform
Concen: 7.73 ug/L
RT: 5.099 min Scan# 1169
Delta R.T. -0.000 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

Instrument :
MSVOA_U
ClientSampled :
X2Z60DL

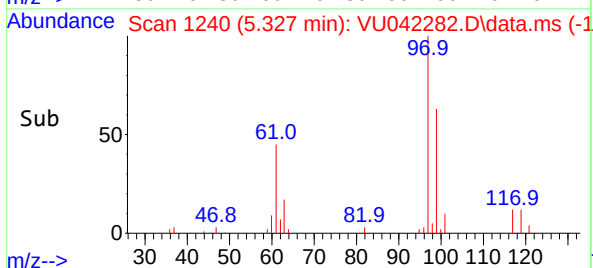
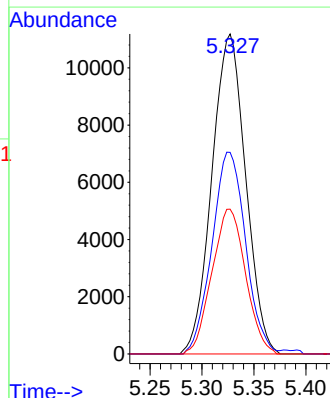
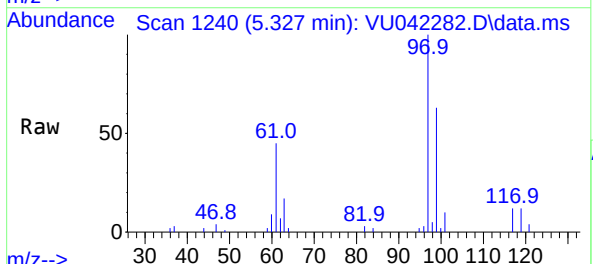
Tgt Ion: 83 Resp: 20379
Ion Ratio Lower Upper
83 100
85 68.5 46.1 85.5

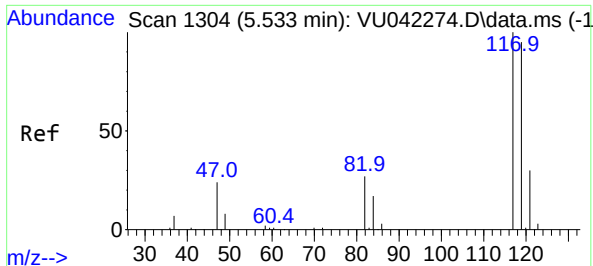


#30

1,1,1-Trichloroethane
Concen: 10.55 ug/L
RT: 5.327 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

Tgt Ion: 97 Resp: 25275
Ion Ratio Lower Upper
97 100
99 62.9 51.3 76.9
61 45.2 37.7 56.5

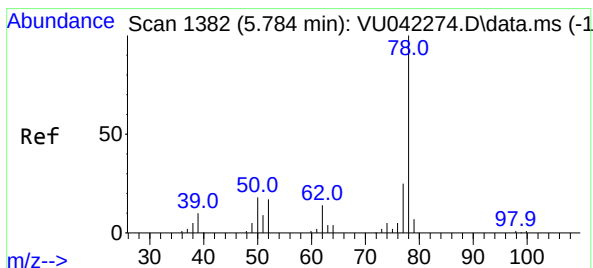
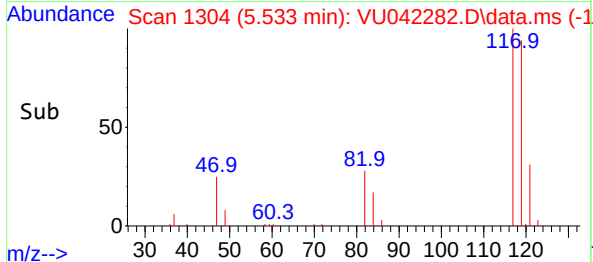
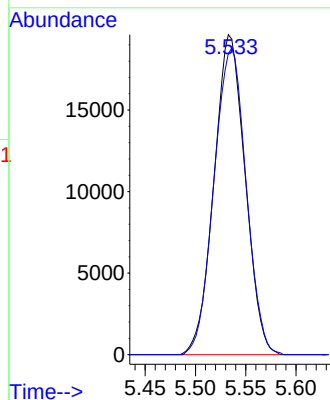
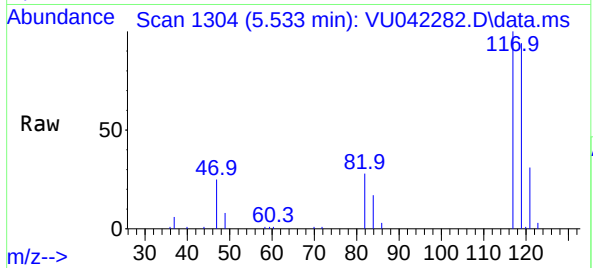




#31
Carbon tetrachloride
Concen: 20.50 ug/L
RT: 5.533 min Scan# 1304
Delta R.T. -0.000 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

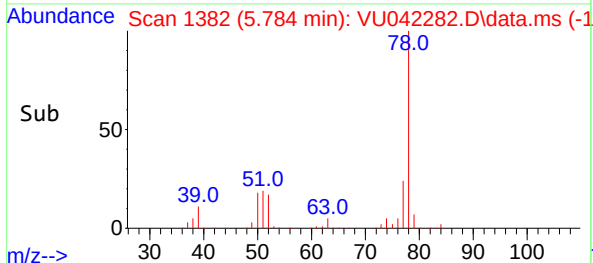
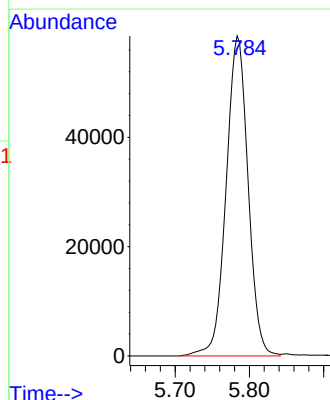
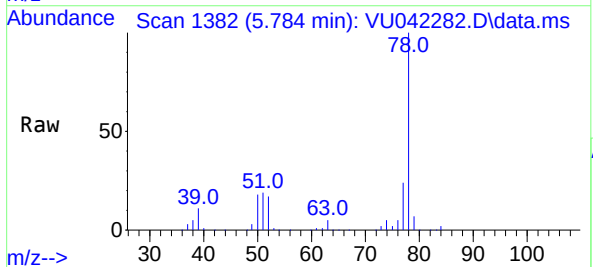
Instrument :
MSVOA_U
ClientSampled :
X2Z60DL

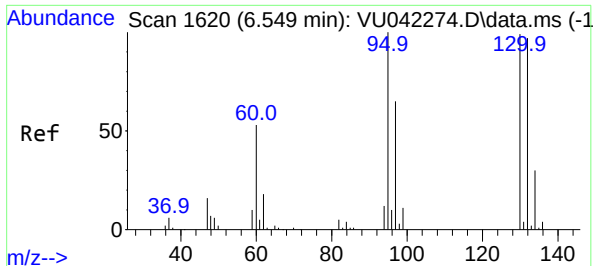
Tgt Ion:117 Resp: 42228
Ion Ratio Lower Upper
117 100
119 98.9 77.5 116.3



#33
Benzene
Concen: 22.45 ug/L
RT: 5.784 min Scan# 1382
Delta R.T. -0.000 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

Tgt Ion: 78 Resp: 120143





#34

Trichloroethene

Concen: 37.09 ug/L

RT: 6.552 min Scan# 1621

Delta R.T. 0.003 min

Lab File: VU042282.D

Acq: 05 Feb 2021 16:45

Tgt Ion: 95 Resp: 51996

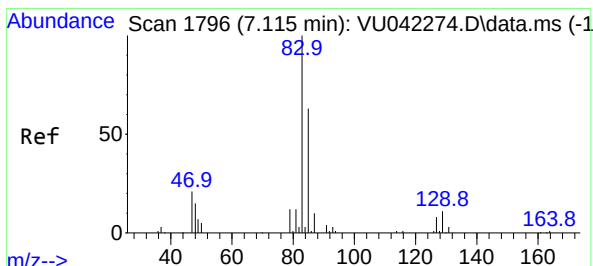
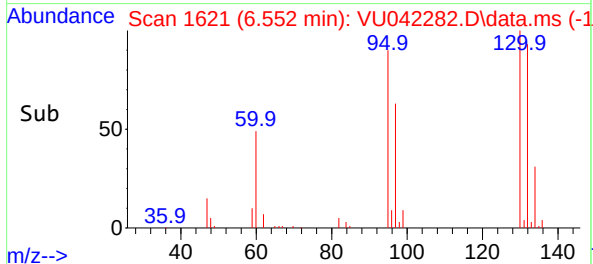
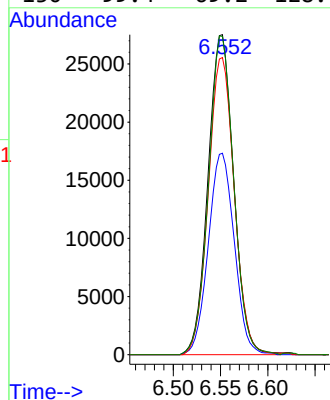
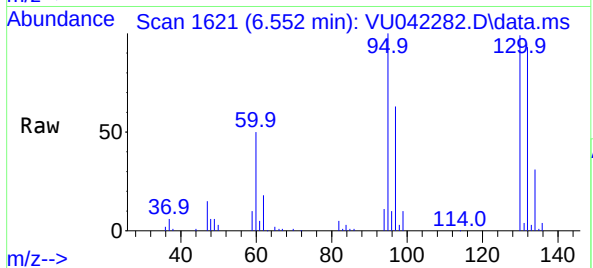
Ion Ratio Lower Upper

95 100

97 63.0 45.3 84.1

132 92.8 67.5 125.4

130 99.4 69.2 128.4



#38

Bromodichloromethane

Concen: 20.69 ug/L

RT: 7.115 min Scan# 1796

Delta R.T. -0.000 min

Lab File: VU042282.D

Acq: 05 Feb 2021 16:45

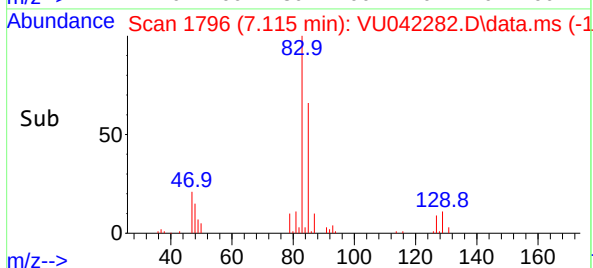
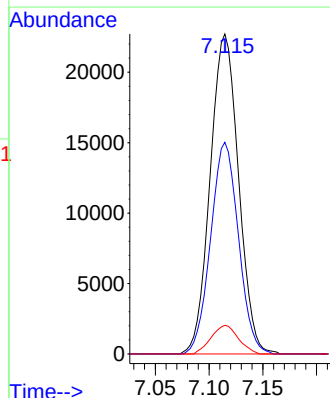
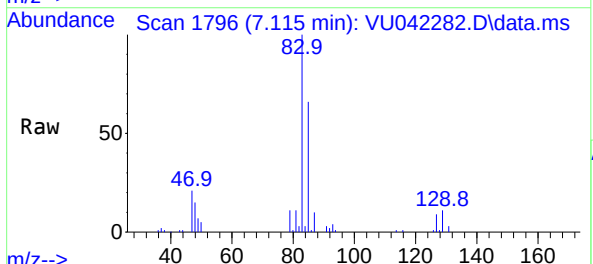
Tgt Ion: 83 Resp: 41671

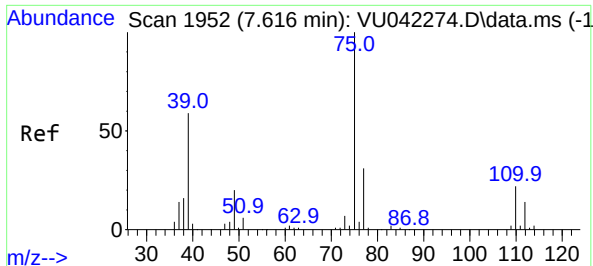
Ion Ratio Lower Upper

83 100

85 66.2 43.8 81.4

127 8.9 6.8 10.2

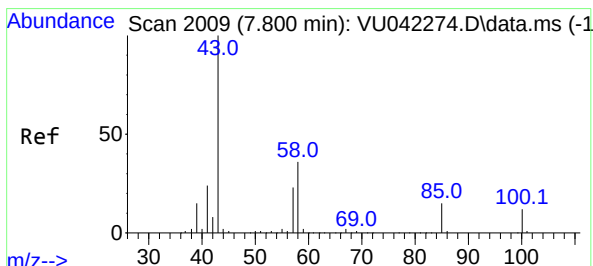
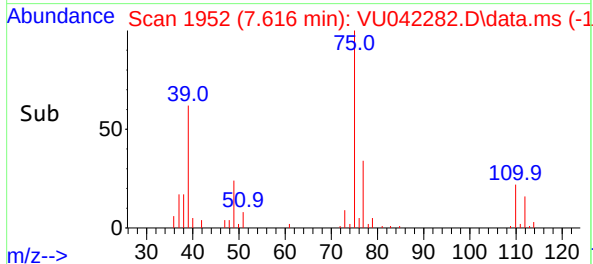
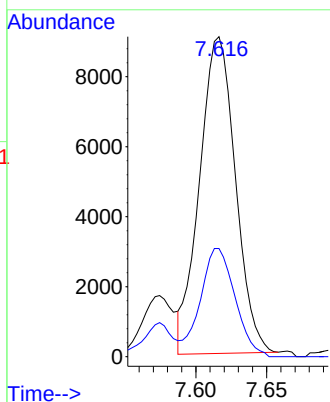
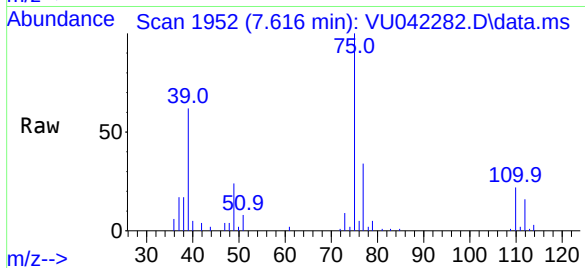




#39
 cis-1,3-Dichloropropene
 Concen: 6.84 ug/L
 RT: 7.616 min Scan# 1952
 Delta R.T. -0.000 min
 Lab File: VU042282.D
 Acq: 05 Feb 2021 16:45

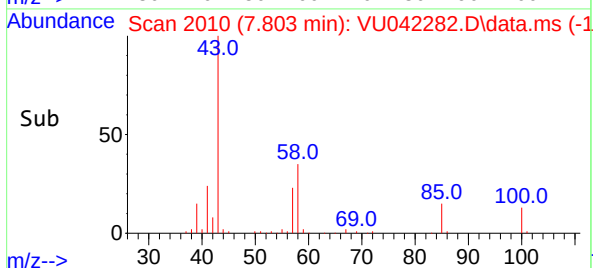
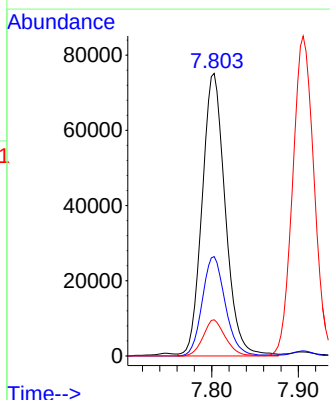
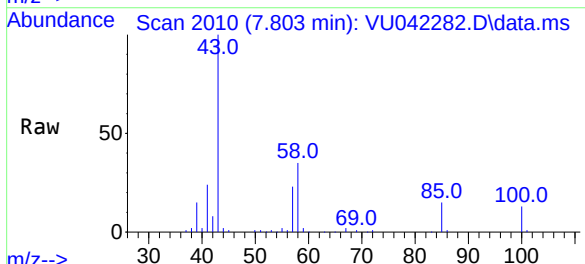
Instrument :
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 ClientSampled :
 X2Z60DL

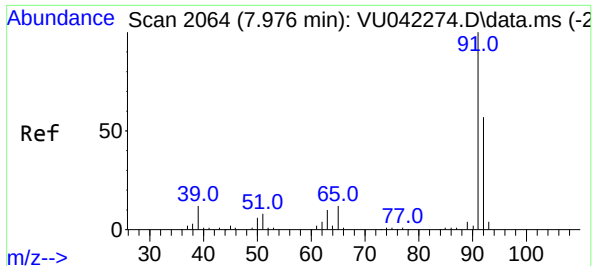
Tgt Ion: 75 Resp: 15955
 Ion Ratio Lower Upper
 75 100
 77 33.8 21.7 40.3



#40
 4-Methyl-2-pentanone
 Concen: 47.25 ug/L
 RT: 7.803 min Scan# 2010
 Delta R.T. 0.003 min
 Lab File: VU042282.D
 Acq: 05 Feb 2021 16:45

Tgt Ion: 43 Resp: 139780
 Ion Ratio Lower Upper
 43 100
 58 35.0 28.7 43.1
 100 12.3 9.7 14.5

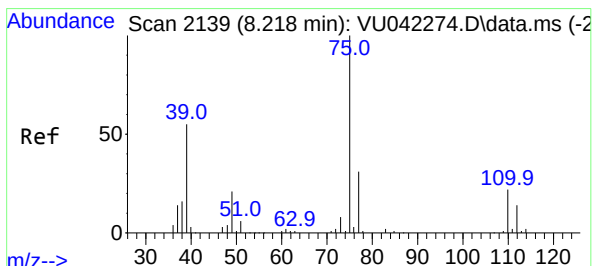
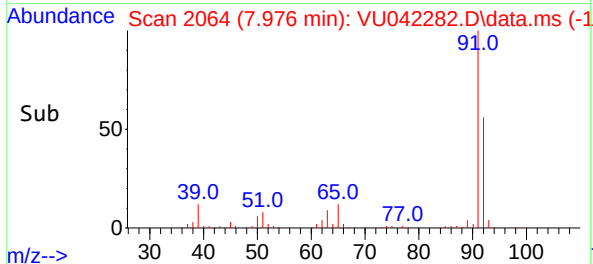
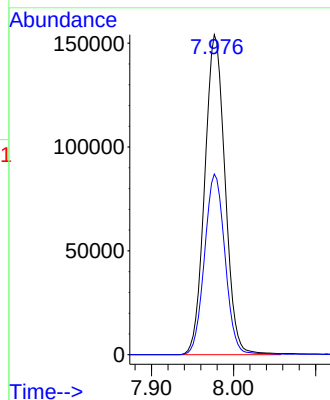
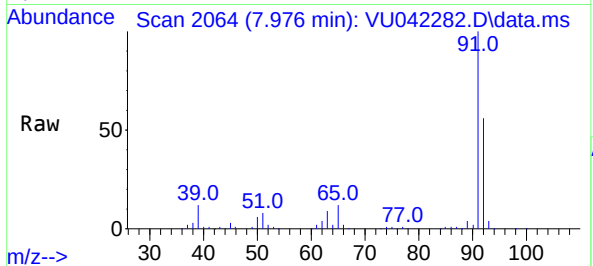




#42
Toluene
Concen: 46.46 ug/L
RT: 7.976 min Scan# 2064
Delta R.T. -0.000 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

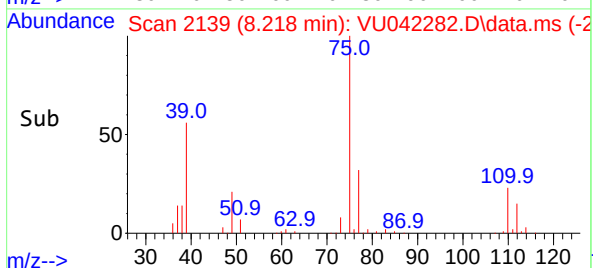
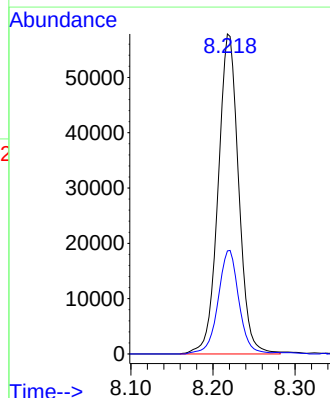
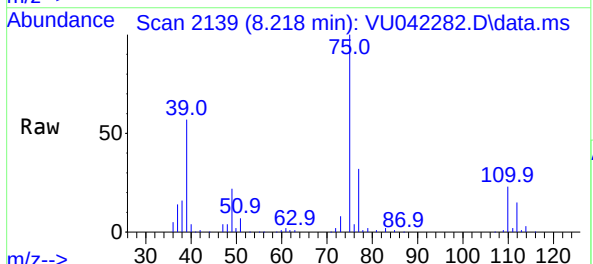
Instrument :
MSVOA_U
ClientSampled :
X2Z60DL

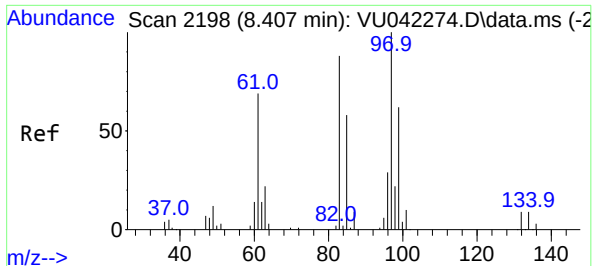
Tgt Ion: 91 Resp: 265576
Ion Ratio Lower Upper
91 100
92 56.4 40.3 74.8



#44
trans-1,3-Dichloropropene
Concen: 43.71 ug/L
RT: 8.218 min Scan# 2139
Delta R.T. -0.000 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

Tgt Ion: 75 Resp: 100482
Ion Ratio Lower Upper
75 100
77 32.2 21.6 40.2





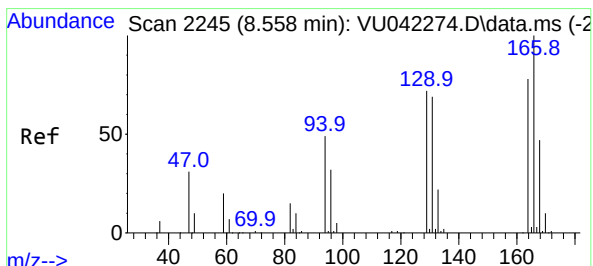
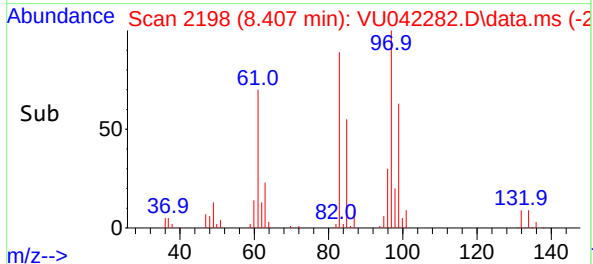
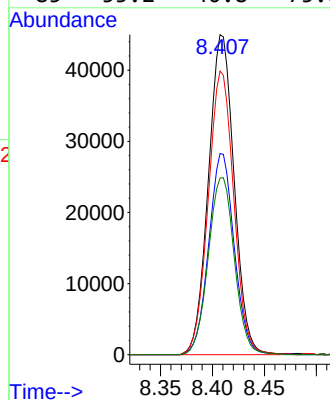
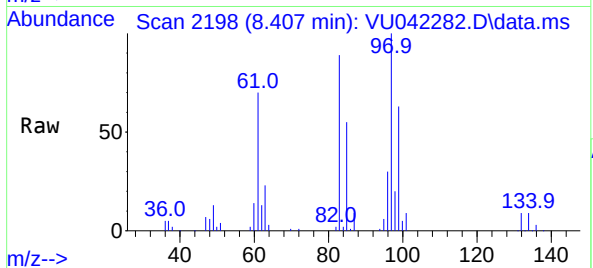
#45

1,1,2-Trichloroethane
Concen: 56.41 ug/L
RT: 8.407 min Scan# 2198
Delta R.T. -0.000 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

Instrument :
MSVOA_U
ClientSampled :
X2Z60DL

Tgt Ion: 97 Resp: 77517

Ion	Ratio	Lower	Upper
97	100		
99	62.8	43.7	81.1
83	88.7	61.7	114.7
85	55.2	40.8	75.8

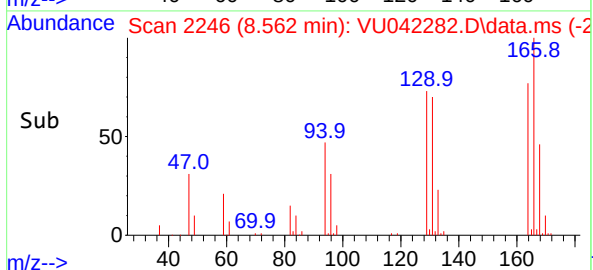
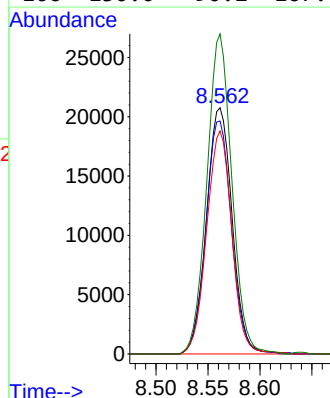
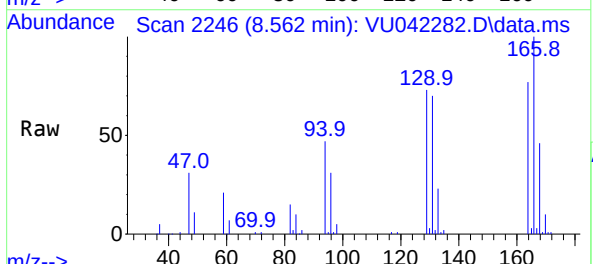


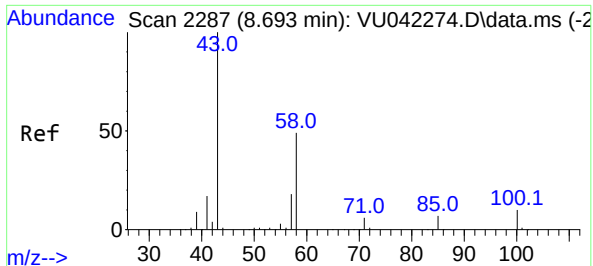
#46

Tetrachloroethene
Concen: 32.38 ug/L
RT: 8.562 min Scan# 2246
Delta R.T. 0.003 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

Tgt Ion: 164 Resp: 35872

Ion	Ratio	Lower	Upper
164	100		
129	94.6	65.2	121.2
131	90.5	62.4	115.8
166	130.0	90.2	167.6

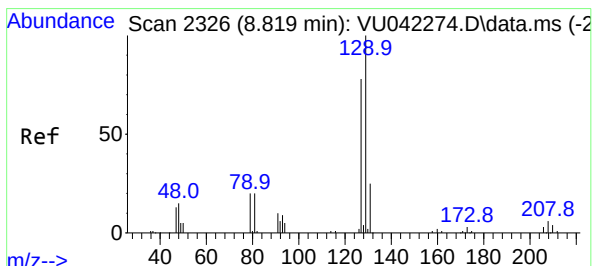
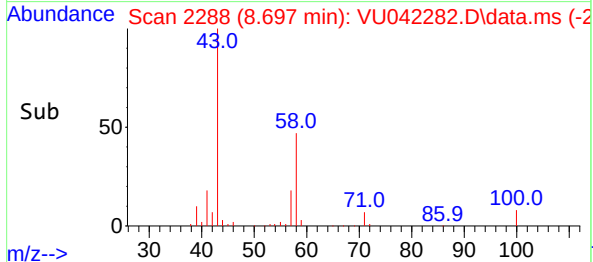
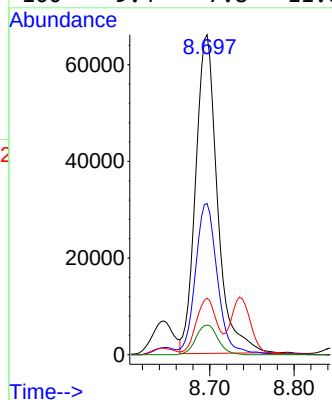
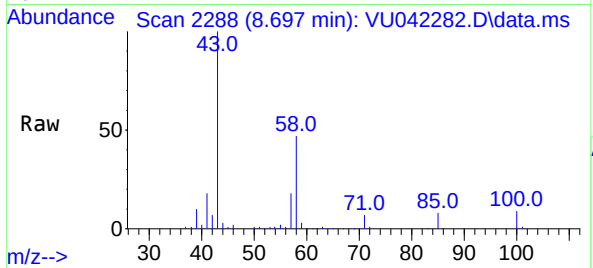




#48
2-Hexanone
Concen: 49.68 ug/L
RT: 8.697 min Scan# 2288
Delta R.T. 0.003 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

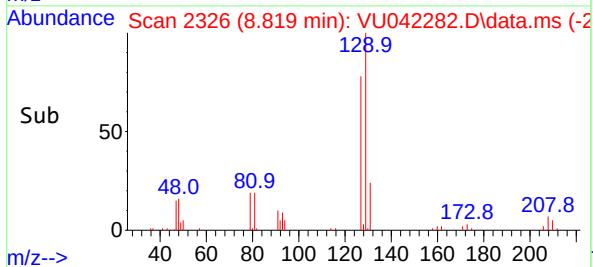
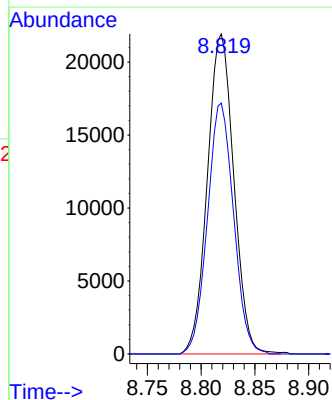
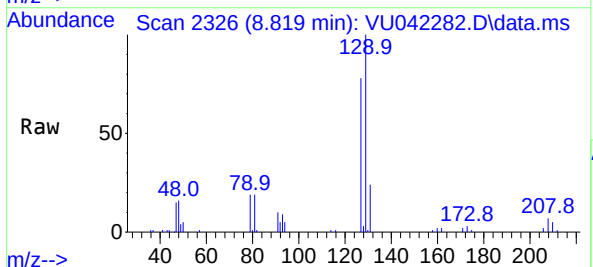
Instrument :
MSVOA_U
ClientSampleId :
X2Z60DL

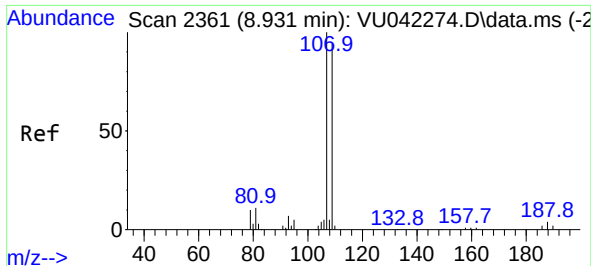
Tgt Ion: 43 Resp: 118992
Ion Ratio Lower Upper
43 100
58 46.0 39.2 58.8
57 16.7 14.4 21.6
100 9.4 7.8 11.6



#49
Dibromochloromethane
Concen: 23.46 ug/L
RT: 8.819 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

Tgt Ion: 129 Resp: 37544
Ion Ratio Lower Upper
129 100
127 78.4 54.7 101.7





#50

1,2-Dibromoethane

Concen: 4.96 ug/L

RT: 8.931 min Scan# 2361

Delta R.T. -0.000 min

Lab File: VU042282.D

Acq: 05 Feb 2021 16:45

Instrument :

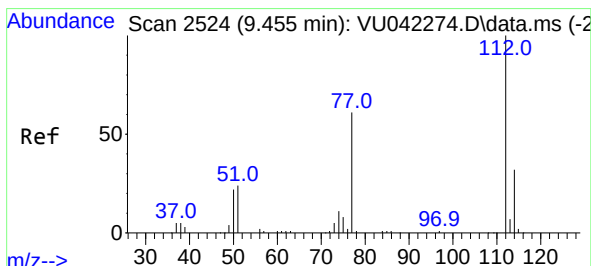
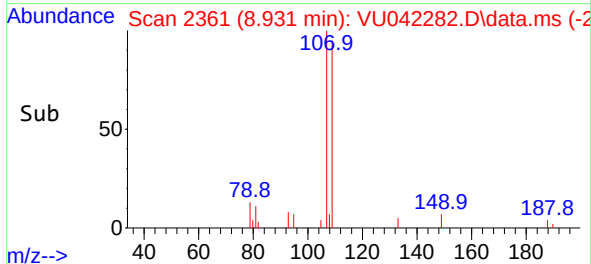
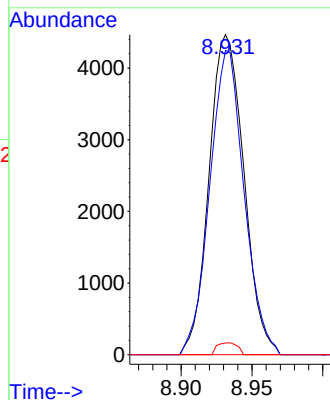
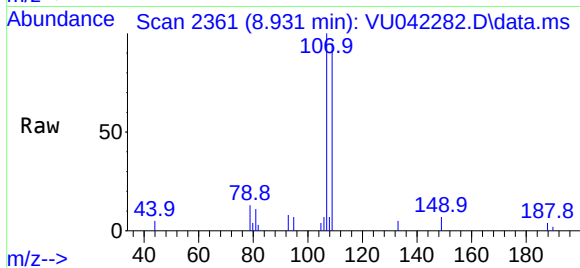
MSVOA_U

ClientSampleId :

X2Z60DL

Tgt Ion:107 Resp: 7649

Ion	Ratio	Lower	Upper
107	100		
109	95.1	65.7	121.9
188	3.6	3.4	5.0



#51

Chlorobenzene

Concen: 24.95 ug/L

RT: 9.455 min Scan# 2524

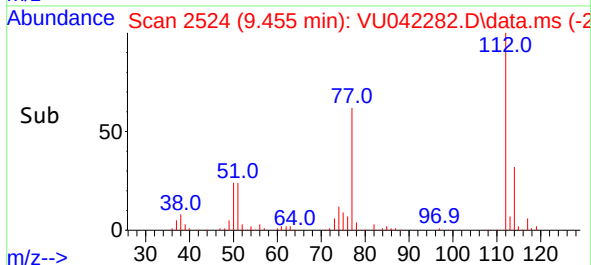
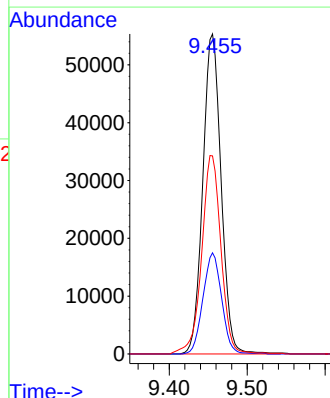
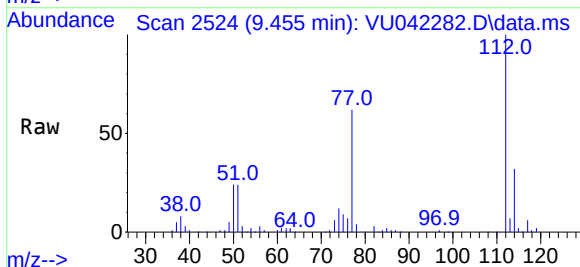
Delta R.T. -0.000 min

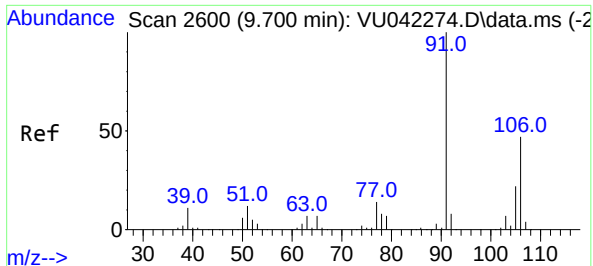
Lab File: VU042282.D

Acq: 05 Feb 2021 16:45

Tgt Ion:112 Resp: 90514

Ion	Ratio	Lower	Upper
112	100		
114	31.6	22.7	42.1
77	61.9	49.4	74.2

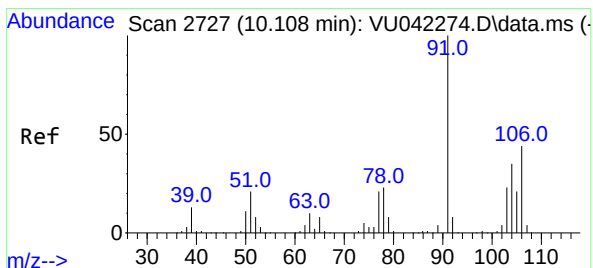
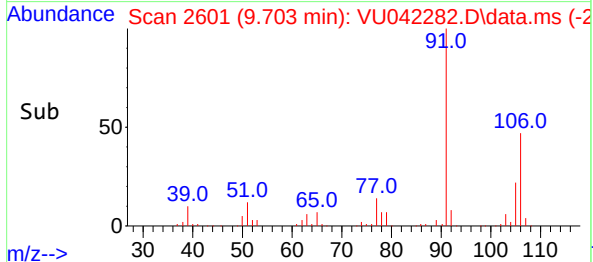
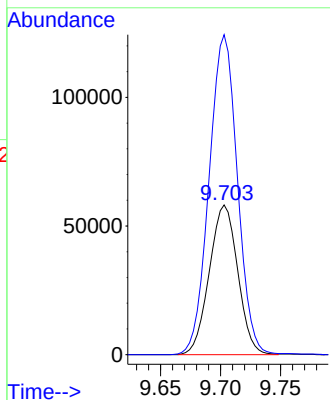
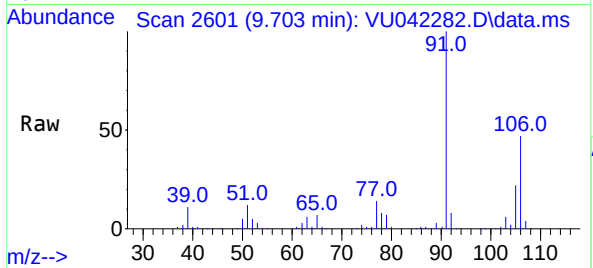




#53
m,p-Xylene
Concen: 40.46 ug/L
RT: 9.703 min Scan# 2601
Delta R.T. 0.003 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

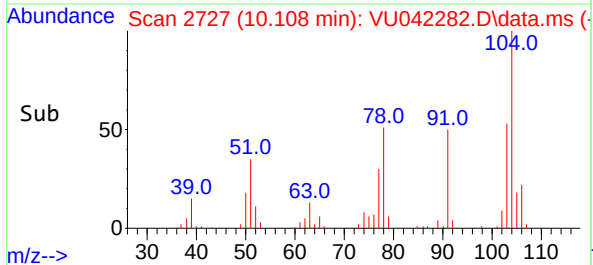
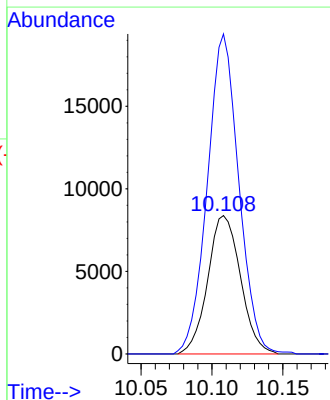
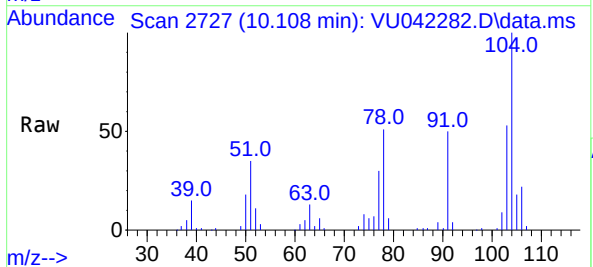
Instrument :
MSVOA_U
ClientSampled :
X2Z60DL

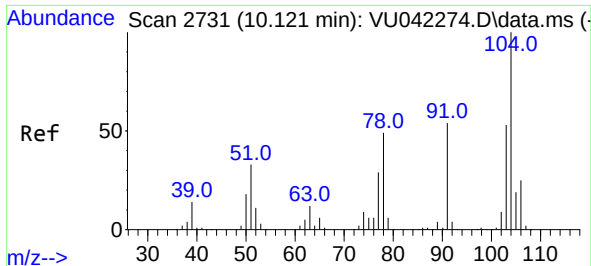
Tgt Ion:106 Resp: 95999
Ion Ratio Lower Upper
106 100
91 213.7 149.7 277.9



#54
o-xylene
Concen: 5.71 ug/L
RT: 10.108 min Scan# 2727
Delta R.T. -0.000 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

Tgt Ion:106 Resp: 13486
Ion Ratio Lower Upper
106 100
91 231.3 157.4 292.2

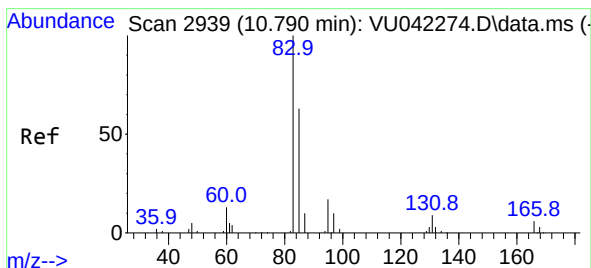
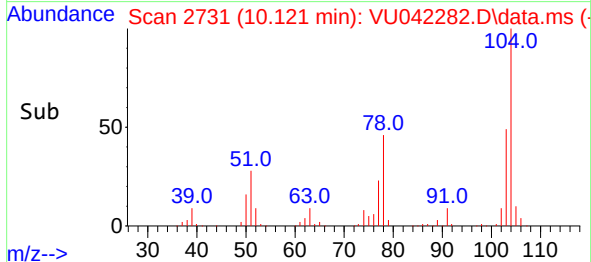
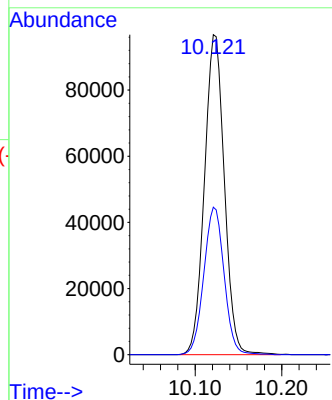
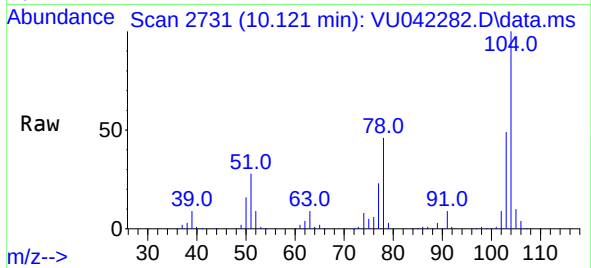




#55
Styrene
Concen: 38.28 ug/L
RT: 10.121 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

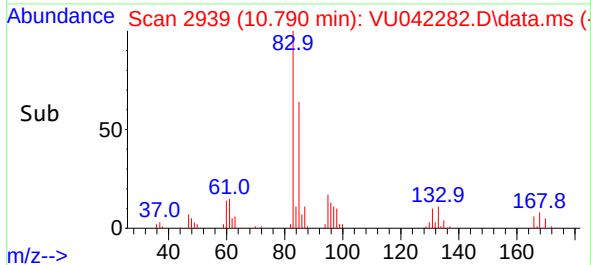
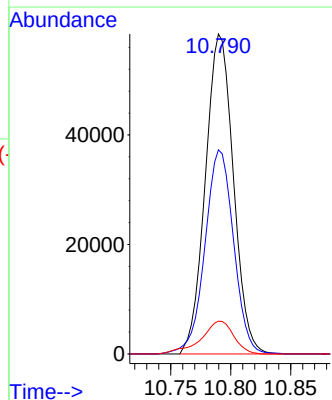
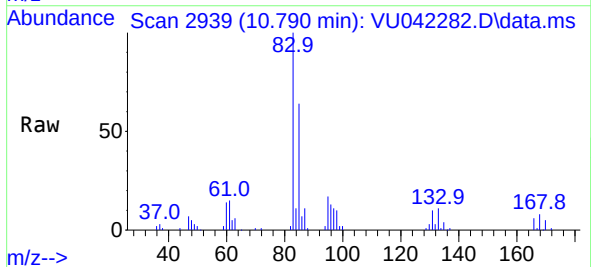
Instrument :
MSVOA_U
ClientSampled :
X2Z60DL

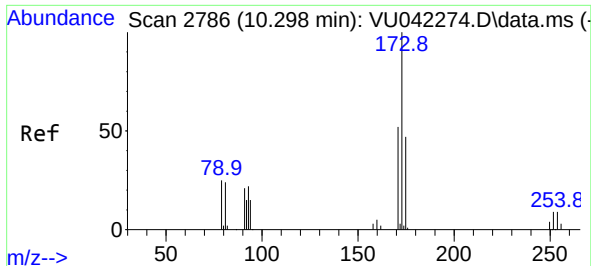
Tgt Ion:104 Resp: 154442
Ion Ratio Lower Upper
104 100
78 46.1 34.4 64.0



#57
1,1,2,2-Tetrachloroethane
Concen: 37.97 ug/L
RT: 10.790 min Scan# 2939
Delta R.T. -0.000 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

Tgt Ion: 83 Resp: 94986
Ion Ratio Lower Upper
83 100
85 63.8 45.4 84.2
131 10.3 8.1 12.1



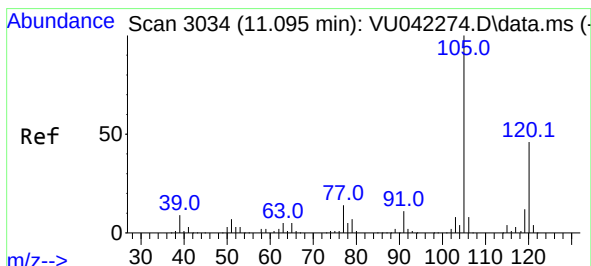
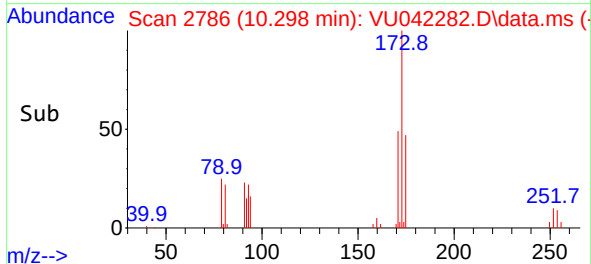
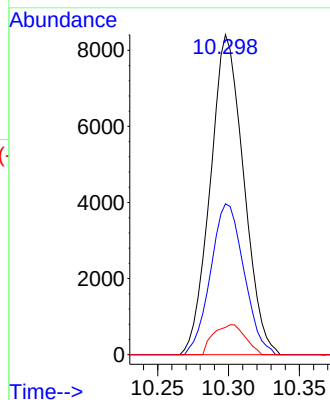
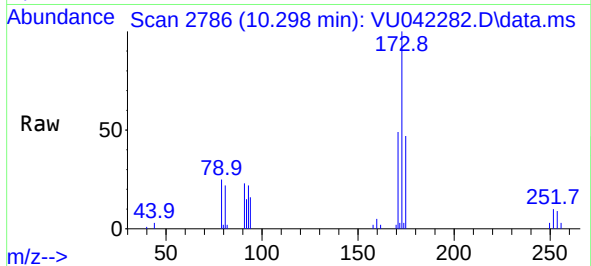


#59
Bromoform
Concen: 10.74 ug/L
RT: 10.298 min Scan# 2786
Delta R.T. -0.000 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

Instrument :
MSVOA_U
ClientSampleId :
X2Z60DL

Tgt Ion:173 Resp: 13777

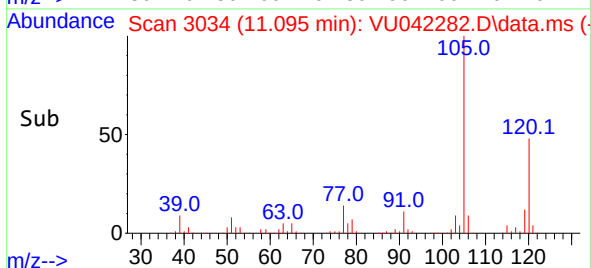
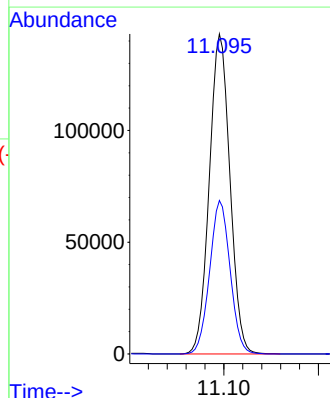
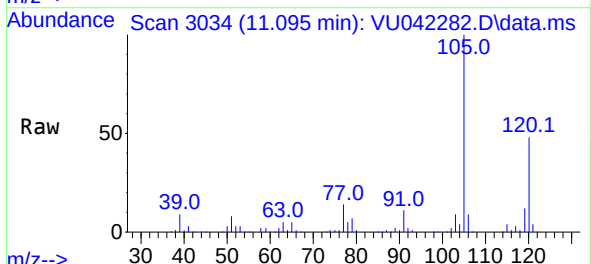
Ion	Ratio	Lower	Upper
173	100		
175	47.2	39.0	58.4
254	8.9	7.4	11.0

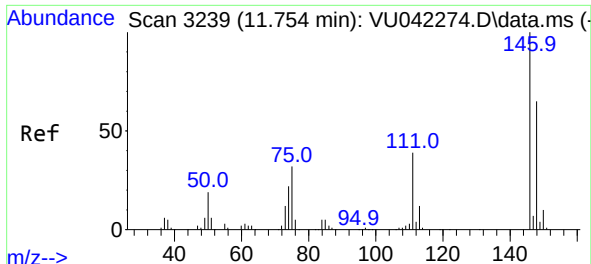


#62
1,3,5-Trimethylbenzene
Concen: 41.16 ug/L
RT: 11.095 min Scan# 3034
Delta R.T. -0.000 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

Tgt Ion:105 Resp: 216774

Ion	Ratio	Lower	Upper
105	100		
120	47.5	37.2	55.8

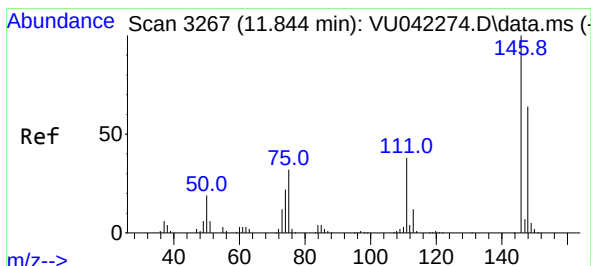
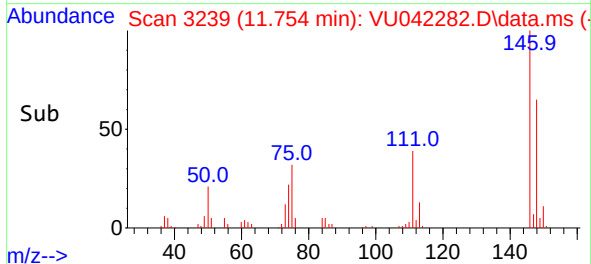
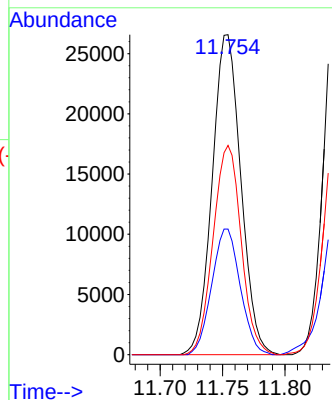
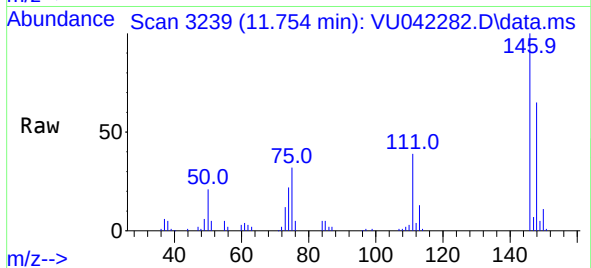




#64
1,3-Dichlorobenzene
Concen: 14.84 ug/L
RT: 11.754 min Scan# 3239
Delta R.T. -0.000 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

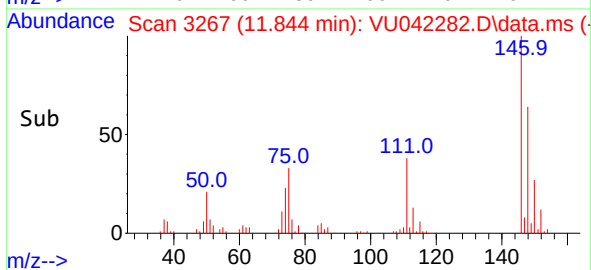
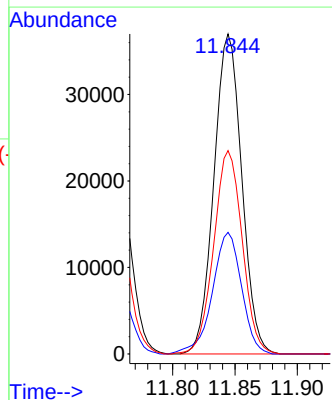
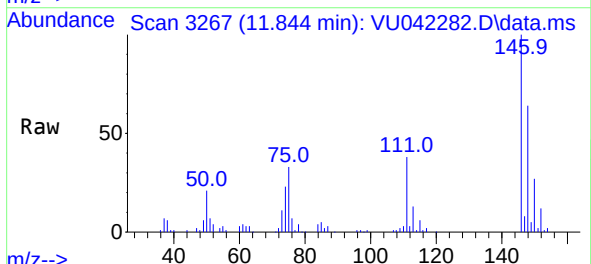
Instrument :
MSVOA_U
ClientSampleId :
X2Z60DL

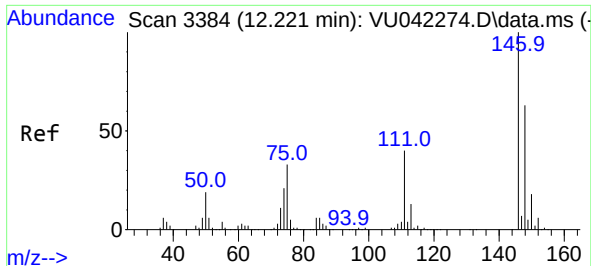
Tgt Ion:146 Resp: 42581
Ion Ratio Lower Upper
146 100
111 39.3 27.6 51.2
148 65.4 45.4 84.2



#65
1,4-Dichlorobenzene
Concen: 19.72 ug/L
RT: 11.844 min Scan# 3267
Delta R.T. -0.000 min
Lab File: VU042282.D
Acq: 05 Feb 2021 16:45

Tgt Ion:146 Resp: 57651
Ion Ratio Lower Upper
146 100
111 38.0 26.6 49.4
148 63.6 44.6 82.8





#67

1,2-Dichlorobenzene

Concen: 37.21 ug/L

RT: 12.221 min Scan# 3384

Delta R.T. -0.000 min

Lab File: VU042282.D

Acq: 05 Feb 2021 16:45

Tgt Ion:146 Resp: 109753

Ion Ratio Lower Upper

146 100

111 40.7 31.9 47.9

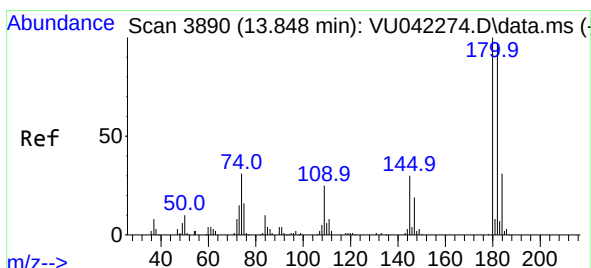
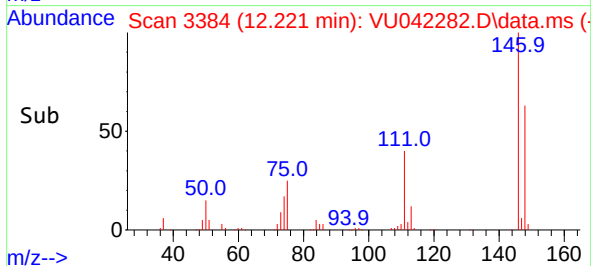
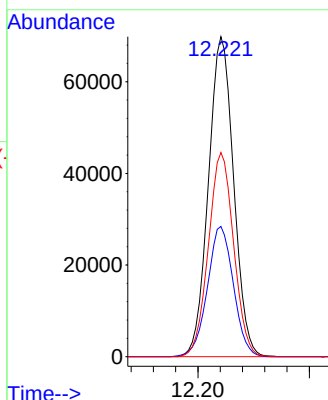
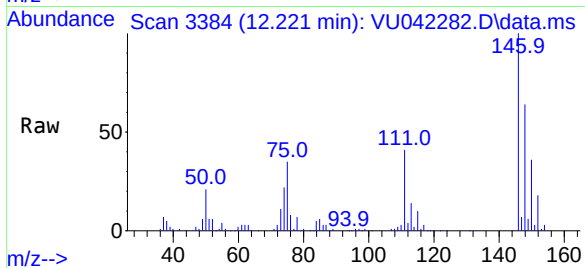
148 63.8 50.2 75.4

Instrument :

MSVOA_U

ClientSampleId :

X2Z60DL



#70

1,2,4-trichlorobenzene

Concen: 33.24 ug/L

RT: 13.848 min Scan# 3890

Delta R.T. -0.000 min

Lab File: VU042282.D

Acq: 05 Feb 2021 16:45

Tgt Ion:180 Resp: 61686

Ion Ratio Lower Upper

180 100

182 95.4 77.2 115.8

145 28.9 23.7 35.5

