

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111824\
 Data File : VU061842.D
 Acq On : 19 Nov 2024 04:16
 Operator : MD/SY
 Sample : P4885-13
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 19 04:38:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111324WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Nov 19 03:37:44 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	159736	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	189217	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	64368	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	34744	3.366	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	67.400%
7) Chloroethane-d5	1.907	69	34893	3.960	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	79.200%
11) 1,1-Dichloroethene-d2	2.560	65	16597	3.584	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.600%
20) 2-Butanone-d5	4.611	46	110626	50.500	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.000%
24) Chloroform-d	5.052	84	92541	4.511	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.200%
26) 1,2-Dichloroethane-d4	5.692	65	48912	4.968	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.400%
32) Benzene-d6	5.717	84	186889	3.570	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	71.400%
36) 1,2-Dichloropropane-d6	6.682	67	59069	3.826	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	76.600%
41) Toluene-d8	7.891	98	235956	4.836	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.800%
43) trans-1,3-Dichloroprop...	8.174	79	23078	4.058	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.200%
46) 2-Hexanone-d5	8.621	63	105848	47.102	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.200%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	48256	3.965	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	79.200%
66) 1,2-Dichlorobenzene-d4	12.183	152	57619	5.026	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.600%
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	2.573	101	5765	0.558	ug/L	96
16) Methylene chloride	3.036	84	25254	2.273	ug/L	97
22) cis-1,2-Dichloroethene	4.663	96	3046	0.255	ug/L	85
25) Chloroform	5.074	83	3514	0.173	ug/L	97
27) 1,2-Dichloroethane	5.795	62	3286	0.258	ug/L	95
29) 1,1,1-Trichloroethane	5.309	97	39371	1.828	ug/L	98
31) Carbon tetrachloride	5.303	117	5248	0.286	ug/L	98
34) Trichloroethene	6.534	95	79717	5.155	ug/L	94
35) Methylcyclohexane	6.679	83	14054	0.603	ug/L #	20
37) 1,2-Dichloropropane	6.682	63	6312	0.434	ug/L #	89
42) Toluene	7.962	91	45837	0.743	ug/L	93
45) 1,1,2-Trichloroethane	8.540	97	950	0.090	ug/L #	1
47) Tetrachloroethene	8.544	164	122345	10.529	ug/L	98
49) Dibromochloromethane	8.544	129	120640	10.863	ug/L #	10
51) Chlorobenzene	9.441	112	19425	0.489	ug/L	98
52) Ethylbenzene	9.566	91	15635	0.238	ug/L	97
53) m,p-Xylene	9.688	106	8905	0.354		

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Tue Nov 19 03:37:44 2024
Response via : Initial Calibration

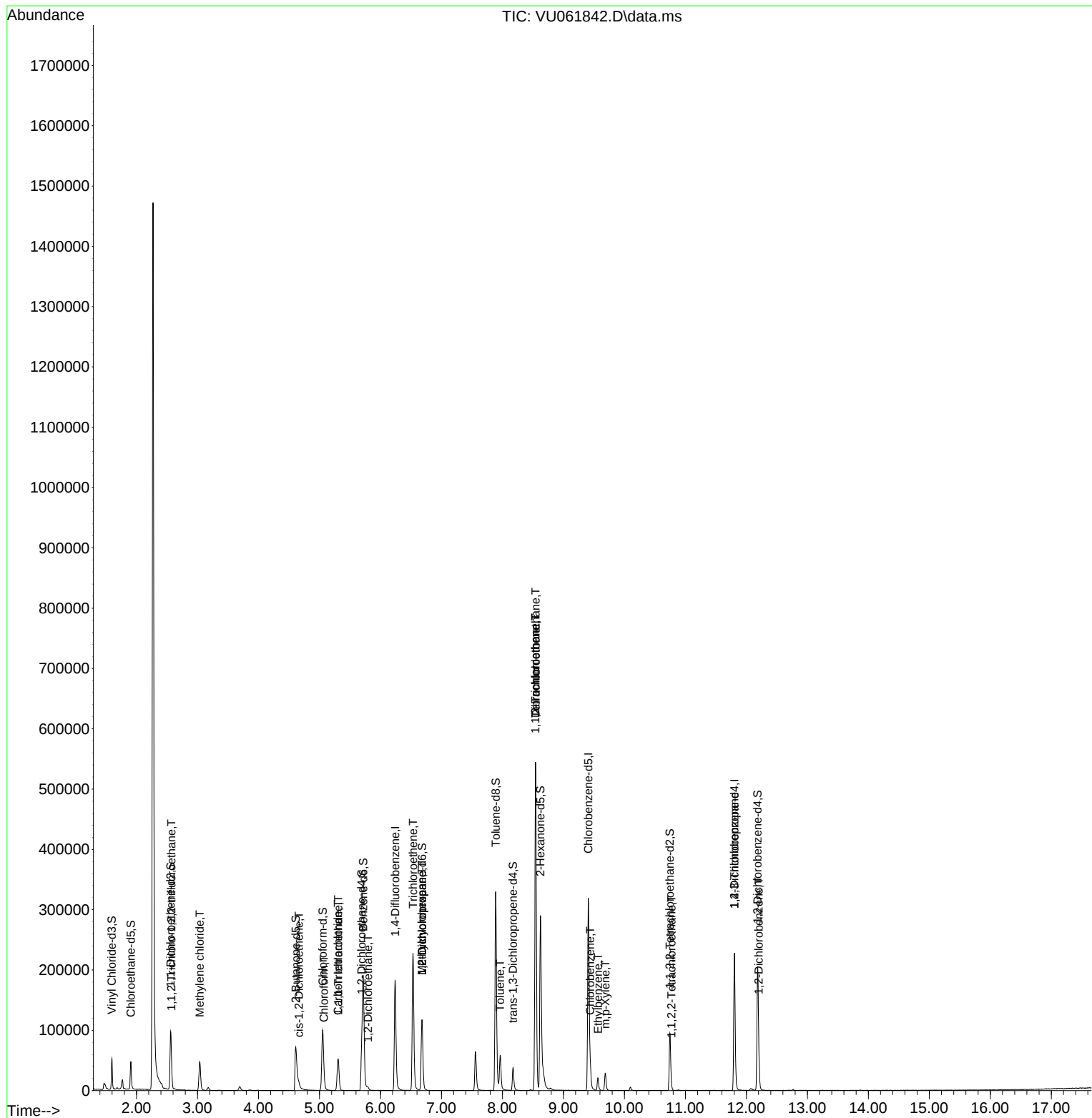
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	12.203	146	9749	0.512	ug/L	93

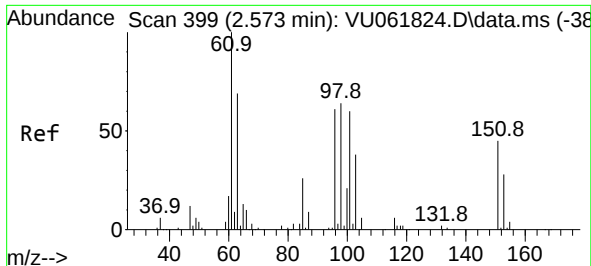
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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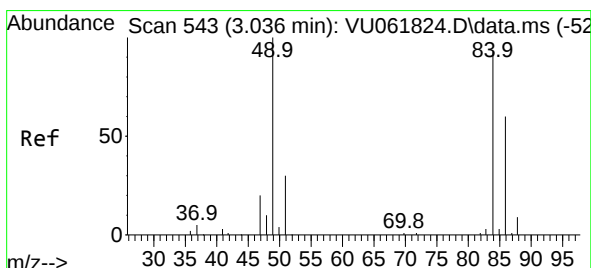
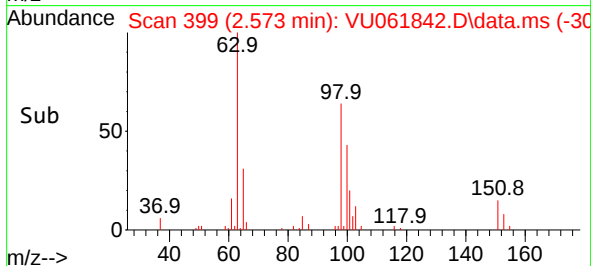
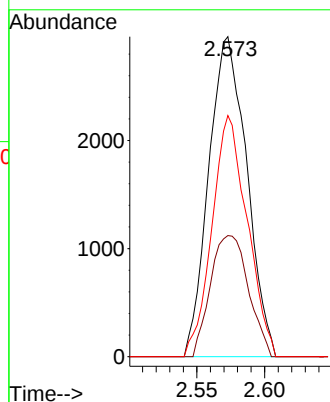
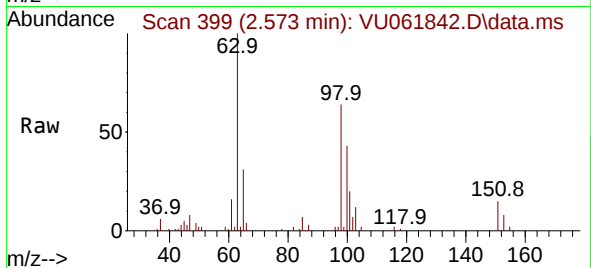




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.558 ug/L
RT: 2.573 min Scan# 399
Delta R.T. 0.000 min
Lab File: VU061842.D
Acq: 19 Nov 2024 04:16

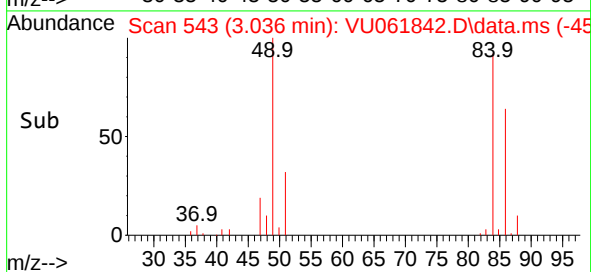
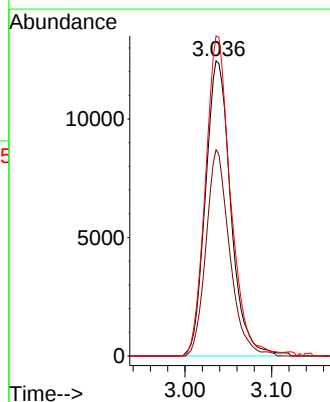
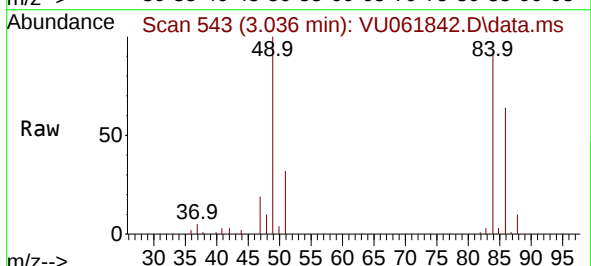
Instrument :
MSVOA_U
ClientSampleId :

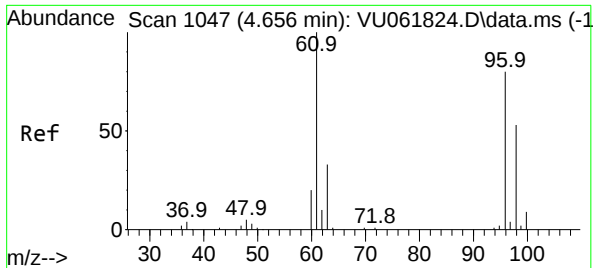
Tgt Ion:101 Resp: 5765
Ion Ratio Lower Upper
101 100
85 37.8 35.1 52.7
151 70.0 56.9 85.3



#16
Methylene chloride
Concen: 2.273 ug/L
RT: 3.036 min Scan# 543
Delta R.T. 0.000 min
Lab File: VU061842.D
Acq: 19 Nov 2024 04:16

Tgt Ion: 84 Resp: 25254
Ion Ratio Lower Upper
84 100
86 69.9 45.1 83.7
49 108.4 76.3 141.7





#22

cis-1,2-Dichloroethene

Concen: 0.255 ug/L

RT: 4.663 min Scan# 1049

Delta R.T. 0.006 min

Lab File: VU061842.D

Acq: 19 Nov 2024 04:16

Instrument :

MSVOA_U

ClientSampleId :

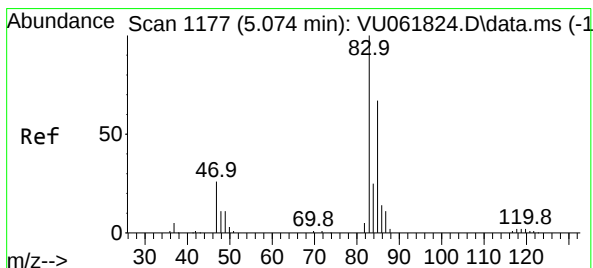
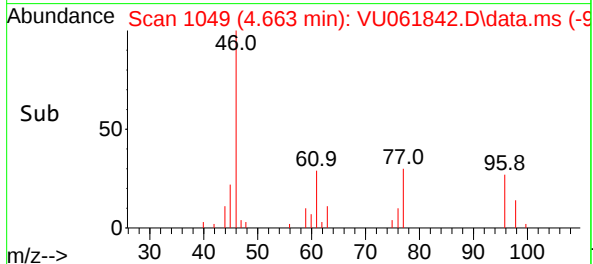
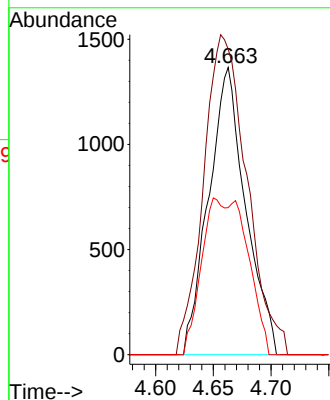
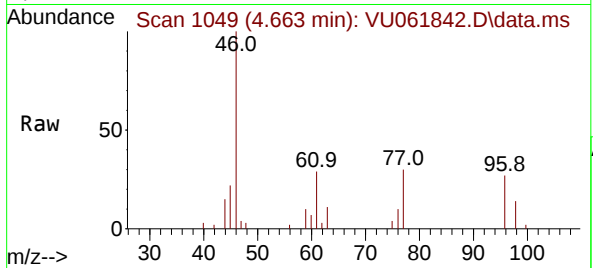
Tgt Ion: 96 Resp: 3046

Ion Ratio Lower Upper

96 100

61 106.4 85.6 159.0

98 51.2 45.6 84.8



#25

Chloroform

Concen: 0.173 ug/L

RT: 5.074 min Scan# 1177

Delta R.T. 0.000 min

Lab File: VU061842.D

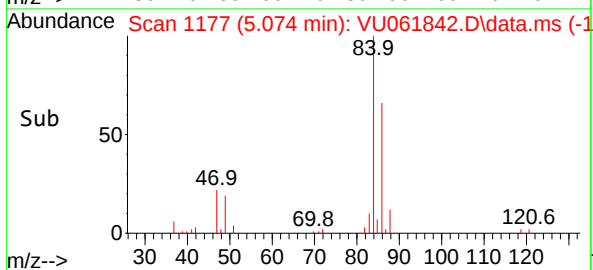
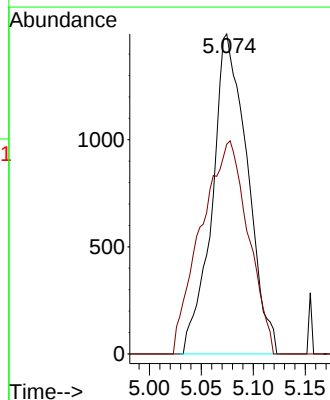
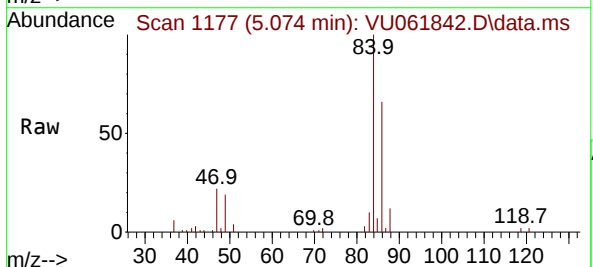
Acq: 19 Nov 2024 04:16

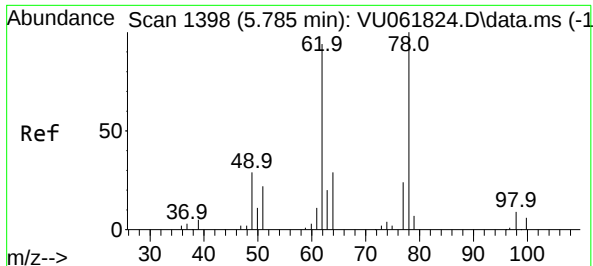
Tgt Ion: 83 Resp: 3514

Ion Ratio Lower Upper

83 100

85 65.5 44.1 81.9

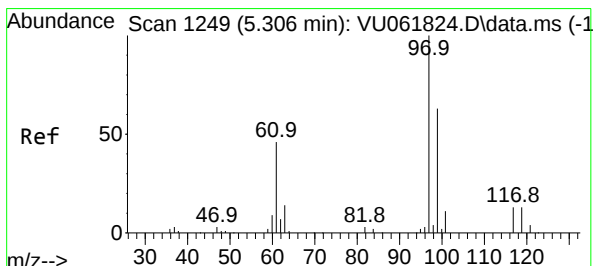
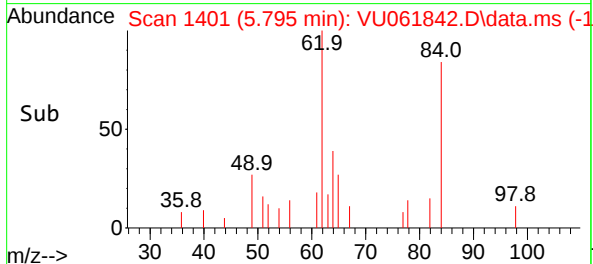
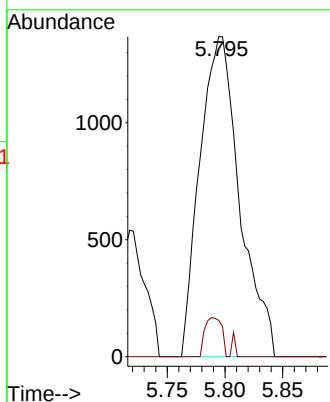
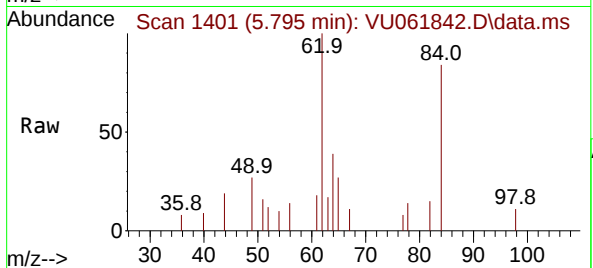




#27
 1,2-Dichloroethane
 Concen: 0.258 ug/L
 RT: 5.795 min Scan# 14
 Delta R.T. 0.010 min
 Lab File: VU061842.D
 Acq: 19 Nov 2024 04:16

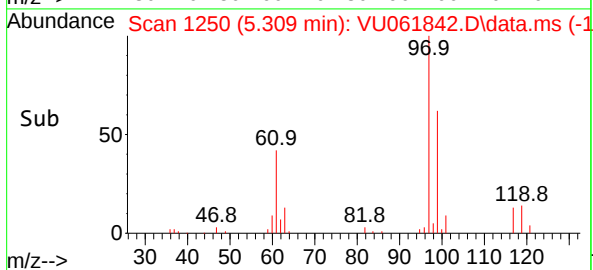
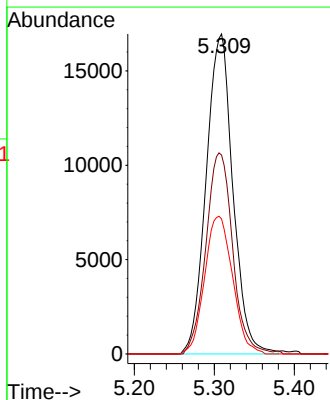
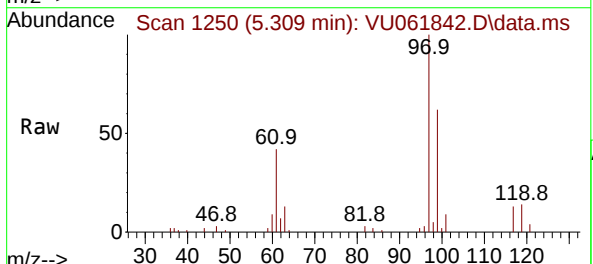
Instrument :
 MSVOA_U
 ClientSampleId :

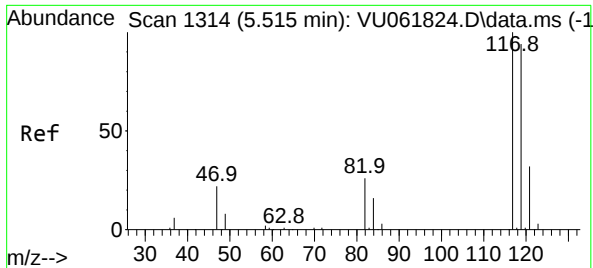
Tgt Ion: 62 Resp: 3286
 Ion Ratio Lower Upper
 62 100
 98 11.3 7.7 11.5



#29
 1,1,1-Trichloroethane
 Concen: 1.828 ug/L
 RT: 5.309 min Scan# 1250
 Delta R.T. 0.003 min
 Lab File: VU061842.D
 Acq: 19 Nov 2024 04:16

Tgt Ion: 97 Resp: 39371
 Ion Ratio Lower Upper
 97 100
 99 62.8 51.7 77.5
 61 45.0 35.4 53.0

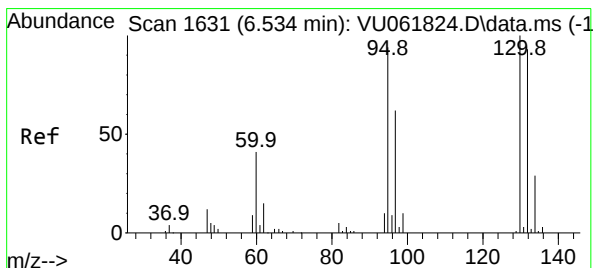
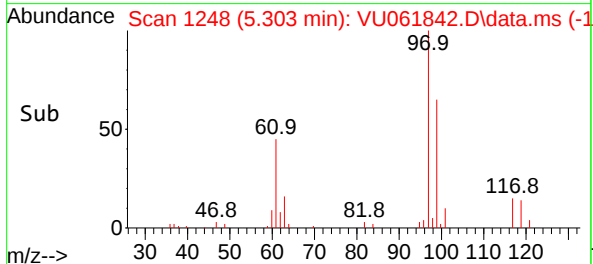
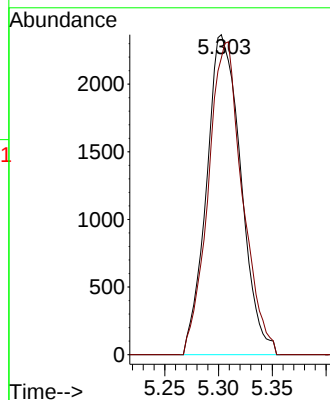
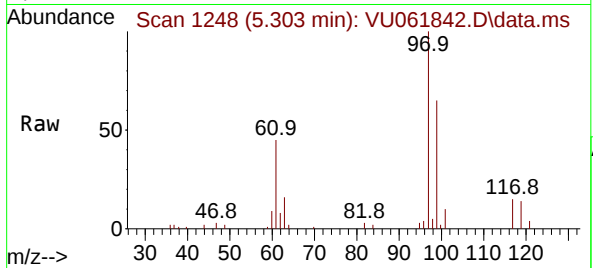




#31
Carbon tetrachloride
Concen: 0.286 ug/L
RT: 5.303 min Scan# 117
Delta R.T. -0.212 min
Lab File: VU061842.D
Acq: 19 Nov 2024 04:16

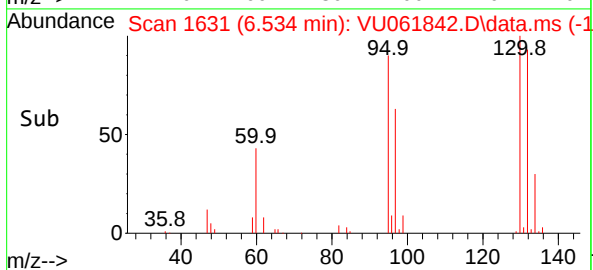
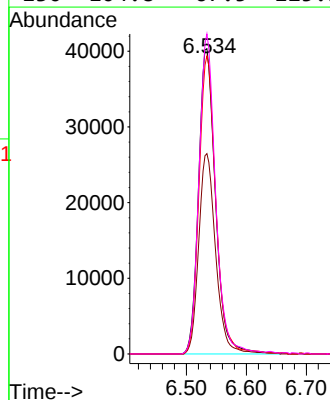
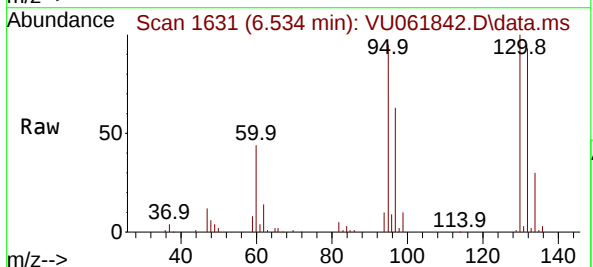
Instrument :
MSVOA_U
ClientSampleId :

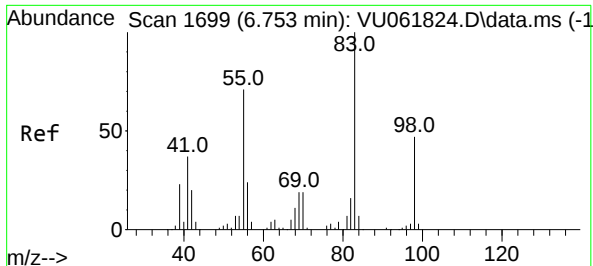
Tgt Ion:117 Resp: 5248
Ion Ratio Lower Upper
117 100
119 97.2 76.6 114.8



#34
Trichloroethene
Concen: 5.155 ug/L
RT: 6.534 min Scan# 1631
Delta R.T. 0.000 min
Lab File: VU061842.D
Acq: 19 Nov 2024 04:16

Tgt Ion: 95 Resp: 79717
Ion Ratio Lower Upper
95 100
97 65.6 43.5 80.9
132 97.7 65.2 121.0
130 104.8 67.5 125.3





#35

Methylcyclohexane

Concen: 0.603 ug/L

RT: 6.679 min Scan# 1

Delta R.T. -0.074 min

Lab File: VU061842.D

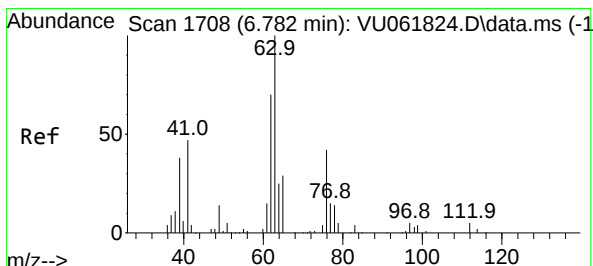
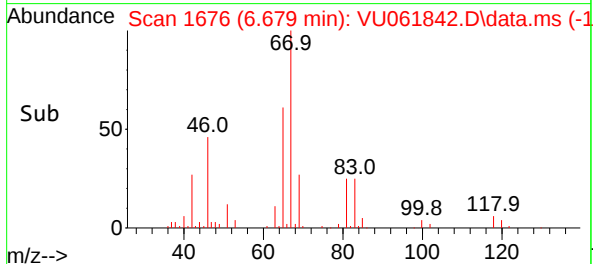
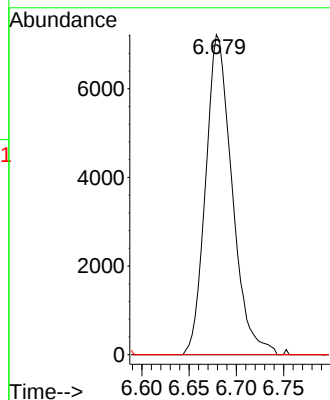
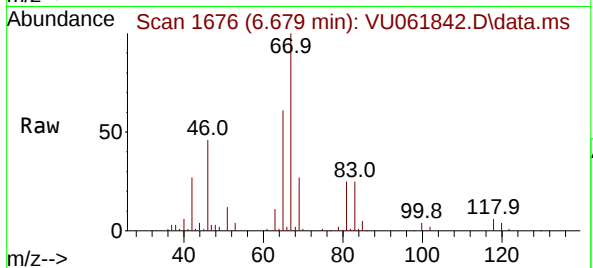
Acq: 19 Nov 2024 04:16

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	83	Resp:	14054
Ion	Ratio	Lower	Upper
83	100		
55	0.0	56.4	84.6#
98	0.0	37.7	56.5#



#37

1,2-Dichloropropane

Concen: 0.434 ug/L

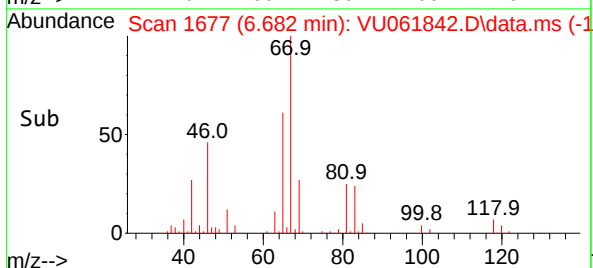
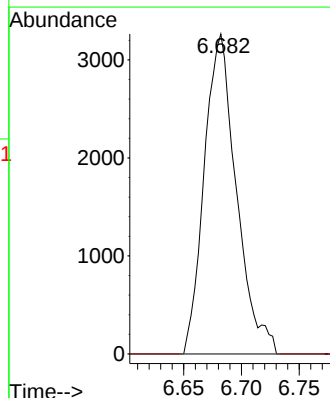
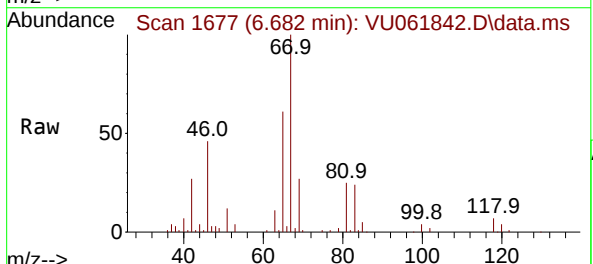
RT: 6.682 min Scan# 1677

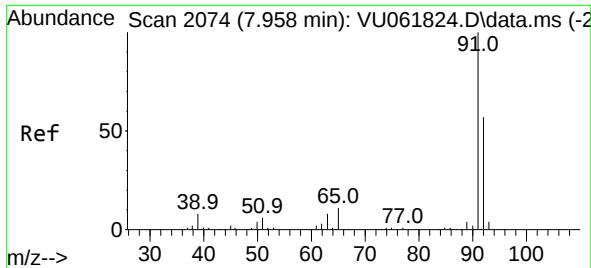
Delta R.T. -0.100 min

Lab File: VU061842.D

Acq: 19 Nov 2024 04:16

Tgt Ion:	63	Resp:	6312
Ion	Ratio	Lower	Upper
63	100		
112	0.0	3.0	4.4#





#42

Toluene

Concen: 0.743 ug/L

RT: 7.962 min Scan# 2074

Delta R.T. 0.003 min

Lab File: VU061842.D

Acq: 19 Nov 2024 04:16

Instrument :

MSVOA_U

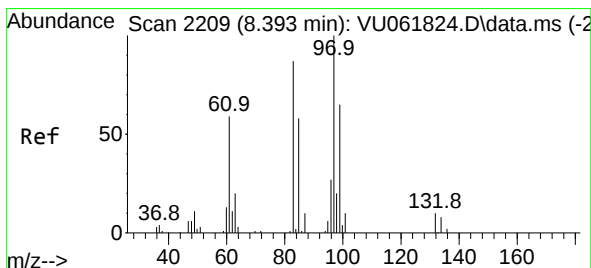
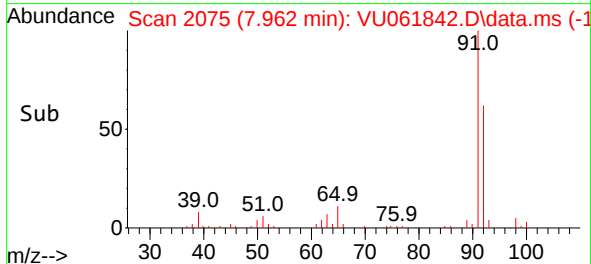
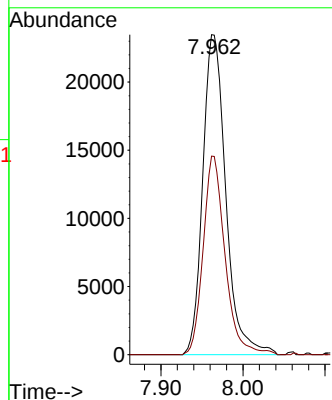
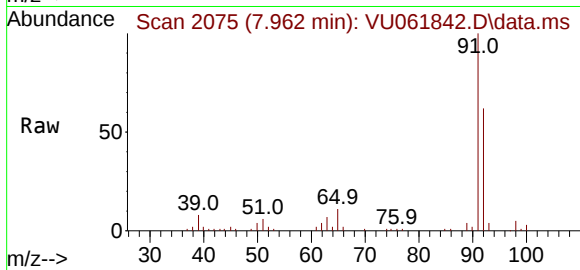
ClientSampleId :

Tgt Ion: 91 Resp: 45837

Ion Ratio Lower Upper

91 100

92 62.1 39.7 73.7



#45

1,1,2-Trichloroethane

Concen: 0.090 ug/L

RT: 8.540 min Scan# 2255

Delta R.T. 0.148 min

Lab File: VU061842.D

Acq: 19 Nov 2024 04:16

Tgt Ion: 97 Resp: 950

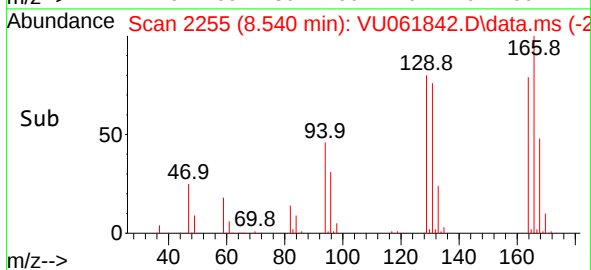
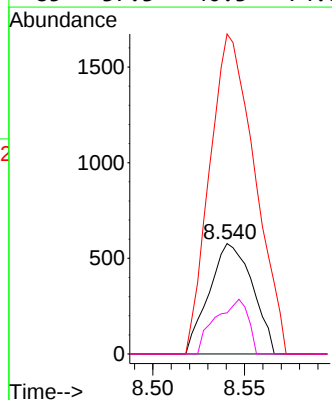
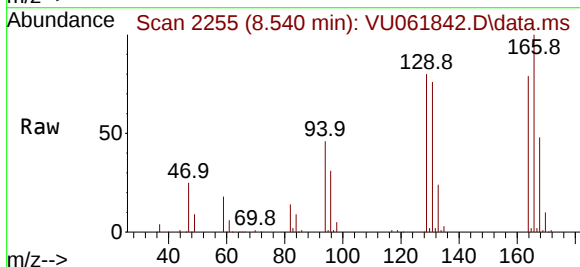
Ion Ratio Lower Upper

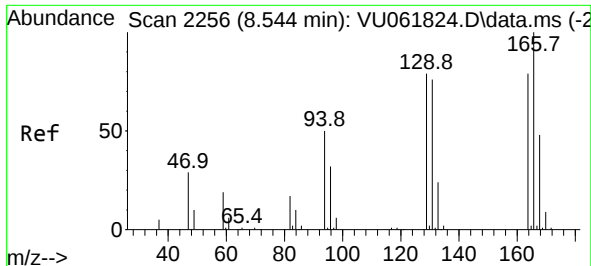
97 100

99 0.0 43.8 81.3#

83 289.9 63.2 117.4#

85 37.3 40.3 74.8#





#47

Tetrachloroethene

Concen: 10.529 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. 0.000 min

Lab File: VU061842.D

Acq: 19 Nov 2024 04:16

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:164 Resp: 122345

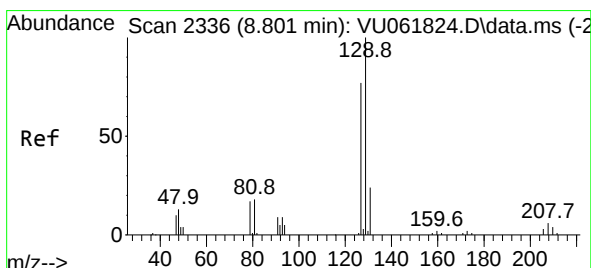
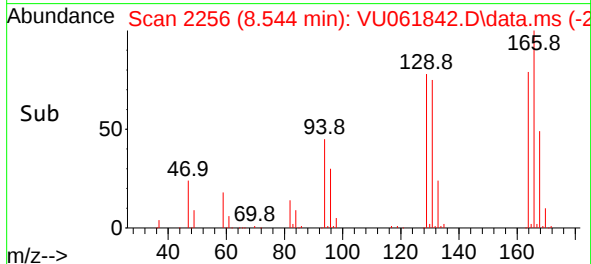
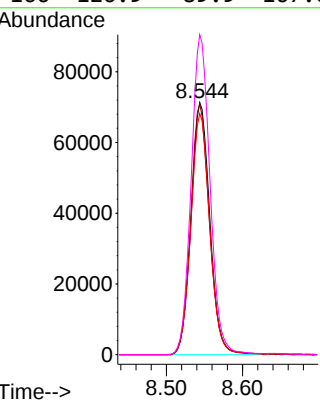
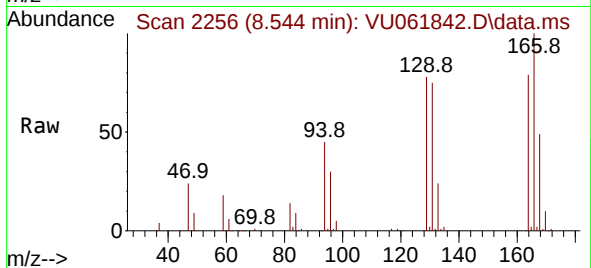
Ion Ratio Lower Upper

164 100

129 99.5 71.7 133.3

131 95.6 68.2 126.6

166 126.9 89.9 167.0



#49

Dibromochloromethane

Concen: 10.863 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. -0.257 min

Lab File: VU061842.D

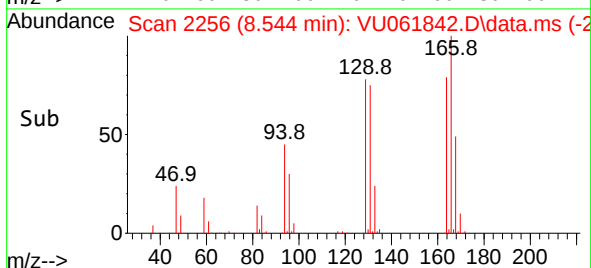
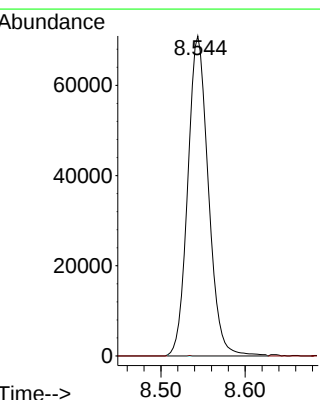
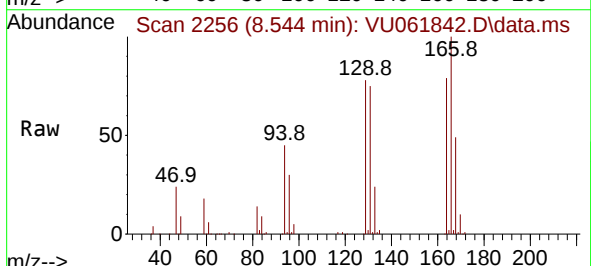
Acq: 19 Nov 2024 04:16

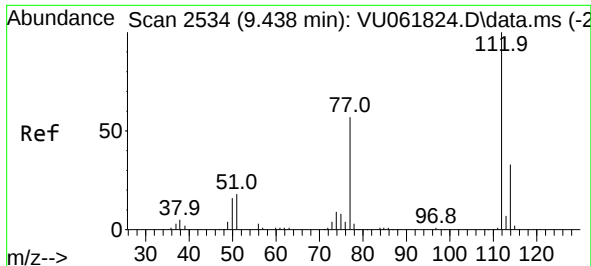
Tgt Ion:129 Resp: 120640

Ion Ratio Lower Upper

129 100

127 0.0 55.1 102.3#

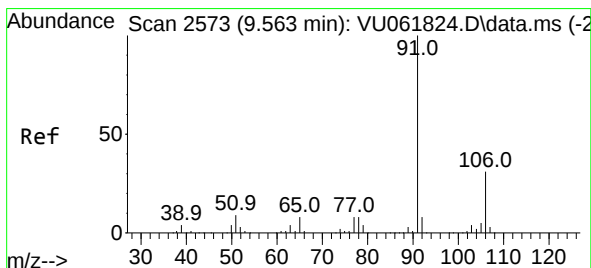
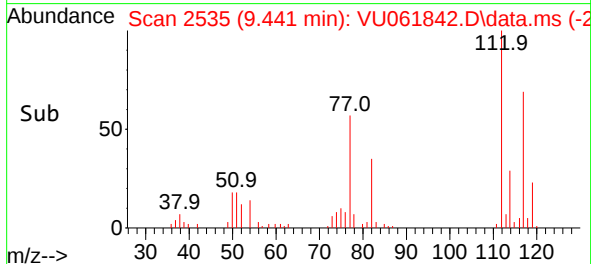
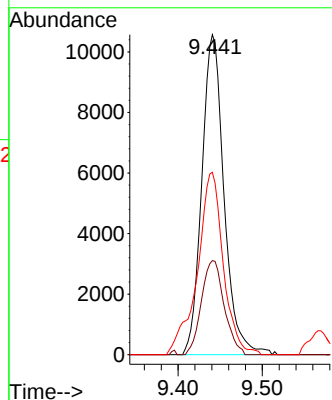
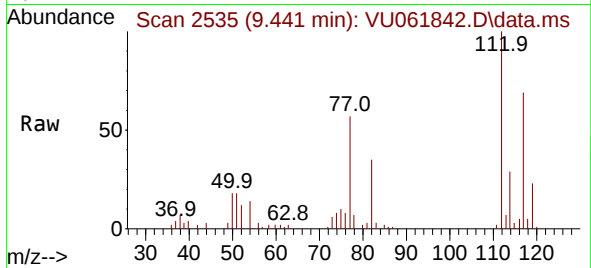




#51
Chlorobenzene
Concen: 0.489 ug/L
RT: 9.441 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU061842.D
Acq: 19 Nov 2024 04:16

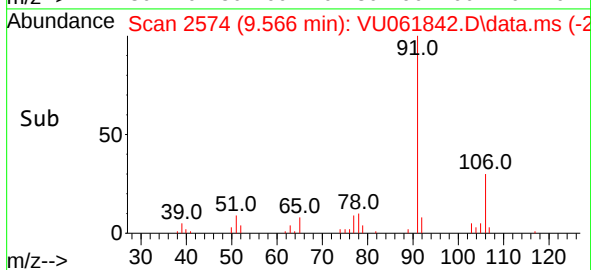
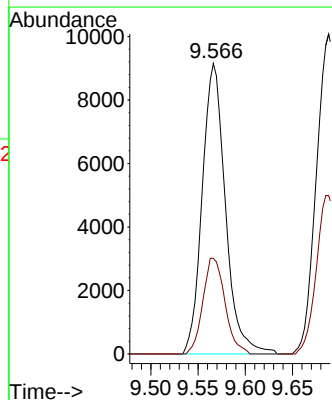
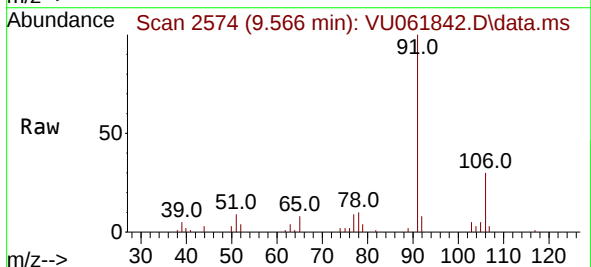
Instrument :
MSVOA_U
ClientSampleId :

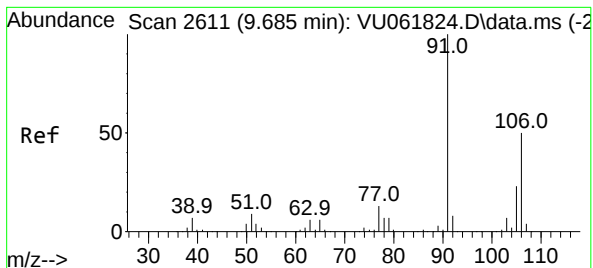
Tgt Ion:112 Resp: 19425
Ion Ratio Lower Upper
112 100
114 29.4 22.5 41.9
77 57.0 45.3 67.9



#52
Ethylbenzene
Concen: 0.238 ug/L
RT: 9.566 min Scan# 2574
Delta R.T. 0.003 min
Lab File: VU061842.D
Acq: 19 Nov 2024 04:16

Tgt Ion: 91 Resp: 15635
Ion Ratio Lower Upper
91 100
106 32.9 21.7 40.3





#53

m,p-Xylene

Concen: 0.354 ug/L

RT: 9.688 min Scan# 2

Delta R.T. 0.003 min

Lab File: VU061842.D

Acq: 19 Nov 2024 04:16

Instrument :

MSVOA_U

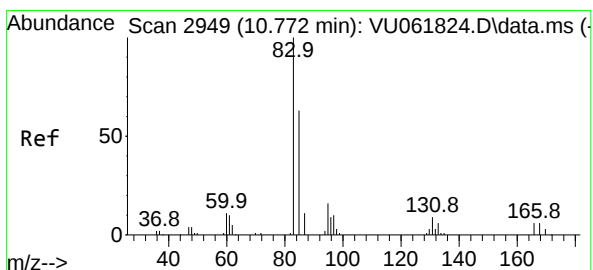
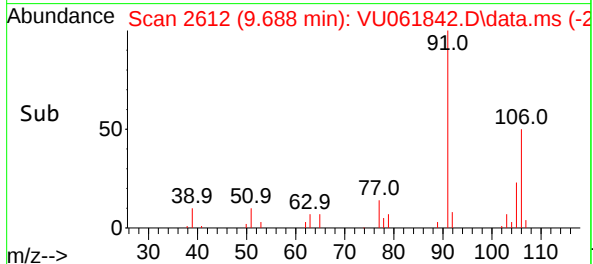
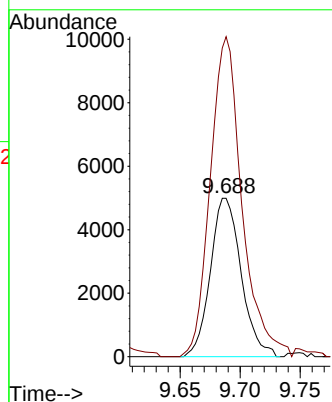
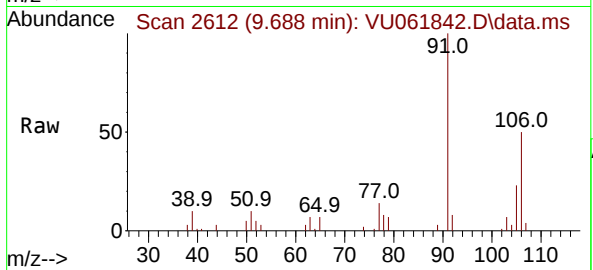
ClientSampleId :

Tgt Ion:106 Resp: 8905

Ion Ratio Lower Upper

106 100

91 201.9 140.4 260.8



#57

1,1,2,2-Tetrachloroethane

Concen: 0.128 ug/L

RT: 10.772 min Scan# 2949

Delta R.T. 0.000 min

Lab File: VU061842.D

Acq: 19 Nov 2024 04:16

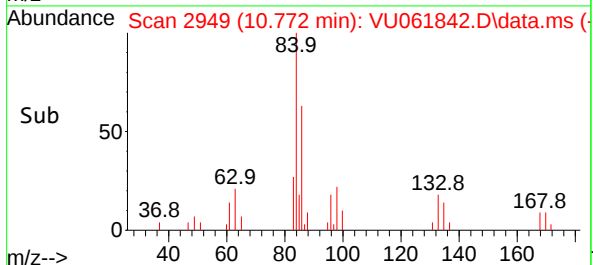
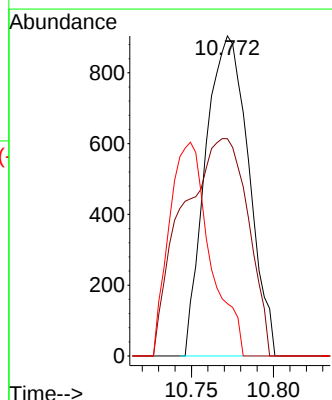
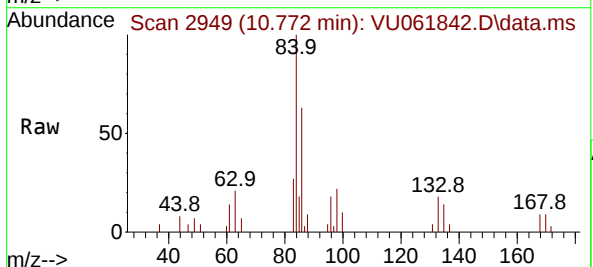
Tgt Ion: 83 Resp: 1650

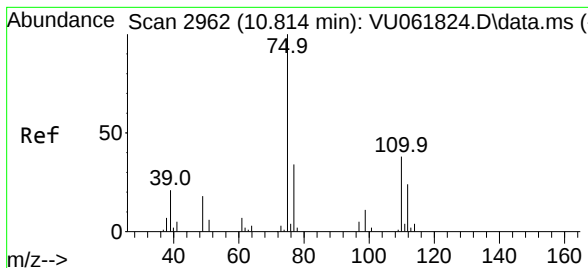
Ion Ratio Lower Upper

83 100

85 67.9 41.9 77.9

131 16.4 7.8 11.6#





#61

1,2,3-Trichloropropane

Concen: 1.350 ug/L

RT: 11.804 min Scan# 31

Delta R.T. 0.990 min

Lab File: VU061842.D

Acq: 19 Nov 2024 04:16

Instrument :

MSVOA_U

ClientSampleId :

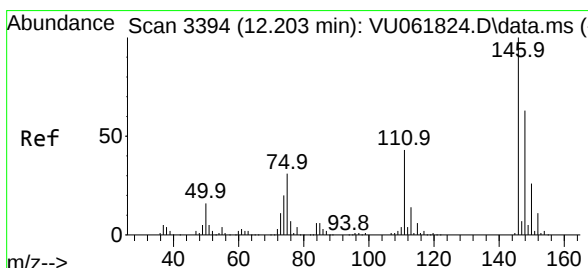
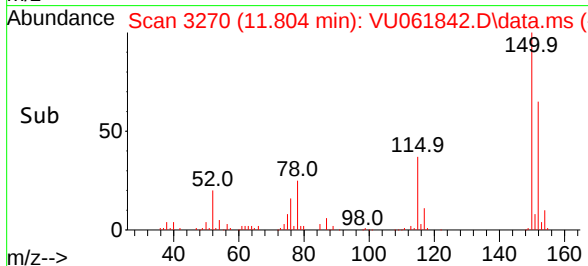
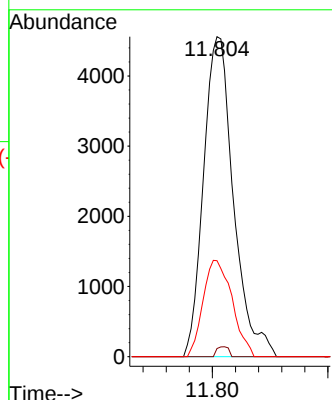
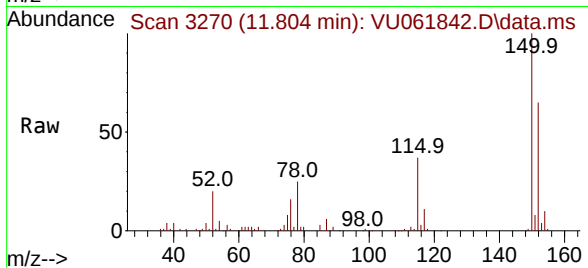
Tgt Ion: 75 Resp: 8186

Ion Ratio Lower Upper

75 100

110 1.2 31.3 46.9#

77 29.2 26.0 39.0



#67

1,2-Dichlorobenzene

Concen: 0.512 ug/L

RT: 12.203 min Scan# 3394

Delta R.T. 0.000 min

Lab File: VU061842.D

Acq: 19 Nov 2024 04:16

Tgt Ion:146 Resp: 9749

Ion Ratio Lower Upper

146 100

111 44.2 35.2 52.8

148 56.7 52.6 79.0

