

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111824\
 Data File : VU061838.D
 Acq On : 19 Nov 2024 02:37
 Operator : MD/SY
 Sample : P4885-09
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 19 03:43:26 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	162310	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	198660	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	98772	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	34960	3.334	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	66.600%
7) Chloroethane-d5	1.907	69	33886	3.785	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	75.600%
11) 1,1-Dichloroethene-d2	2.560	65	16465	3.499	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.000%
20) 2-Butanone-d5	4.611	46	109789	49.323	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.640%
24) Chloroform-d	5.052	84	93048	4.464	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.200%
26) 1,2-Dichloroethane-d4	5.692	65	48802	4.879	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.600%
32) Benzene-d6	5.718	84	184113	3.350	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	67.000%#
36) 1,2-Dichloropropane-d6	6.682	67	58867	3.632	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	72.600%
41) Toluene-d8	7.891	98	162294	3.168	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	63.400%#
43) trans-1,3-Dichloroprop...	8.174	79	22425	3.756	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	75.200%
46) 2-Hexanone-d5	8.624	63	110245	46.726	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.460%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	69921	5.472	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	109.400%
66) 1,2-Dichlorobenzene-d4	12.187	152	87700	4.985	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.800%
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	2.573	101	13775	1.312	ug/L	96
16) Methylene chloride	3.036	84	44140	3.909	ug/L	98
17) Methyl tert-butyl Ether	3.357	73	4777	0.199	ug/L #	92
22) cis-1,2-Dichloroethene	4.656	96	2254	0.186	ug/L	90
27) 1,2-Dichloroethane	5.795	62	5964	0.460	ug/L #	74
29) 1,1,1-Trichloroethane	5.306	97	98874	4.374	ug/L	99
31) Carbon tetrachloride	5.306	117	13462	0.699	ug/L	96
34) Trichloroethene	6.534	95	30698	1.891	ug/L	92
35) Methylcyclohexane	6.682	83	13467	0.550	ug/L #	21
37) 1,2-Dichloropropane	6.682	63	6416	0.421	ug/L #	89
42) Toluene	7.962	91	78669	1.215	ug/L	98
45) 1,1,2-Trichloroethane	8.541	97	2282	0.205	ug/L #	10
47) Tetrachloroethene	8.544	164	272138	22.308	ug/L	97
49) Dibromochloromethane	8.544	129	264412	22.678	ug/L #	10
51) Chlorobenzene	9.441	112	50012	1.200	ug/L	98
52) Ethylbenzene	9.563	91	50722	0.736	ug/L	98
53) m,p-Xylene	9.685	106	38164	1.446	ug/L	97
54) o-Xylene	10.094	106	8848	0.345	ug/L	88
57) 1,1,2,2-Tetrachloroethane	10.772	83	4516	0.334	ug/L #	95

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

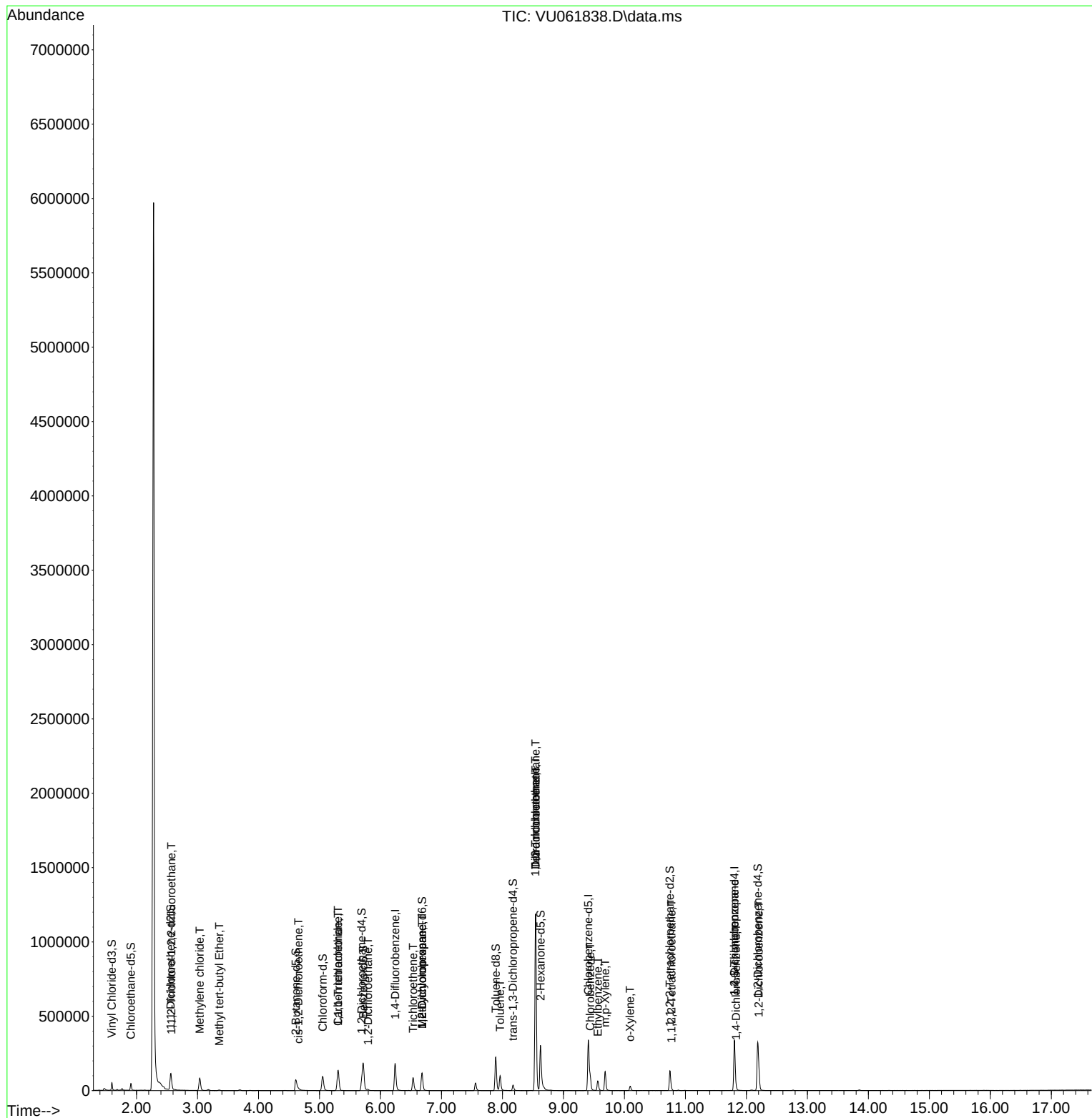
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) 1,2,3-Trichloropropane	11.804	75	12873	1.383	ug/L #	63
65) 1,4-Dichlorobenzene	11.833	146	5501	0.172	ug/L	95
67) 1,2-Dichlorobenzene	12.203	146	46490	1.591	ug/L	98

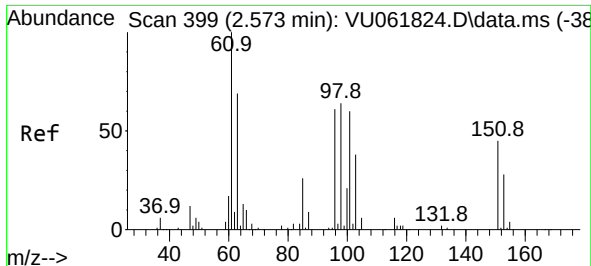
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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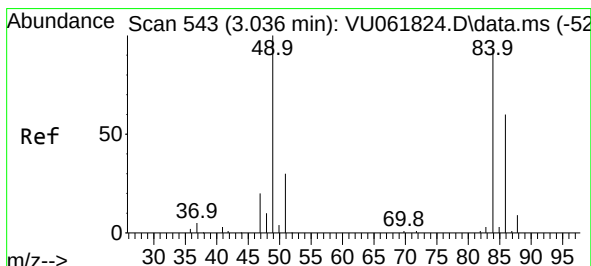
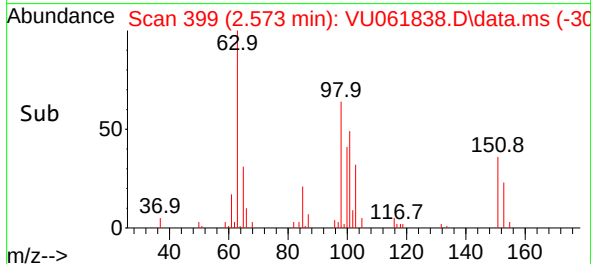
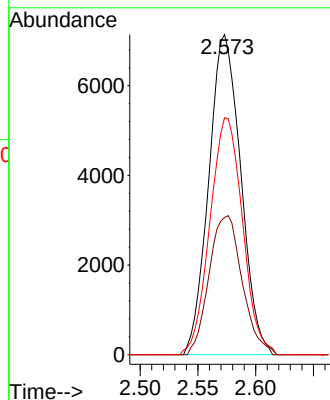
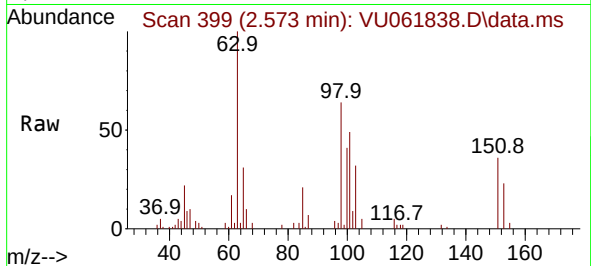




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 1.312 ug/L
RT: 2.573 min Scan# 399
Delta R.T. 0.000 min
Lab File: VU061838.D
Acq: 19 Nov 2024 02:37

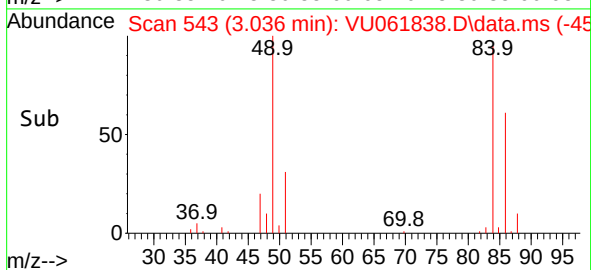
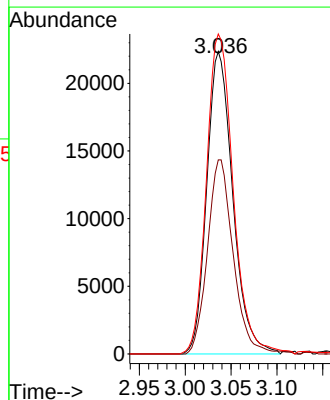
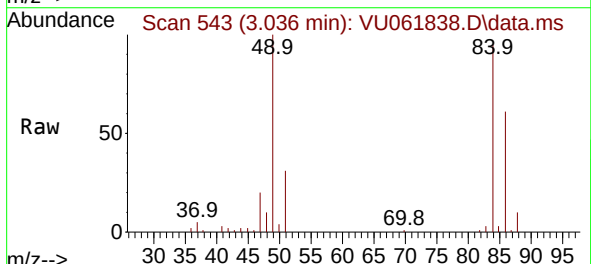
Instrument :
MSVOA_U
ClientSampleId :

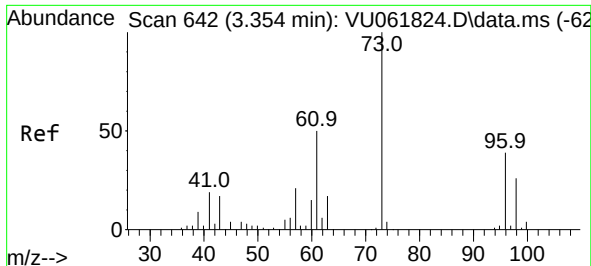
Tgt Ion:101 Resp: 13775
Ion Ratio Lower Upper
101 100
85 44.7 35.1 52.7
151 75.4 56.9 85.3



#16
Methylene chloride
Concen: 3.909 ug/L
RT: 3.036 min Scan# 543
Delta R.T. 0.000 min
Lab File: VU061838.D
Acq: 19 Nov 2024 02:37

Tgt Ion: 84 Resp: 44140
Ion Ratio Lower Upper
84 100
86 64.2 45.1 83.7
49 105.8 76.3 141.7





#17

Methyl tert-butyl Ether

Concen: 0.199 ug/L

RT: 3.357 min Scan# 64

Delta R.T. 0.003 min

Lab File: VU061838.D

Acq: 19 Nov 2024 02:37

Instrument :

MSVOA_U

ClientSampleId :

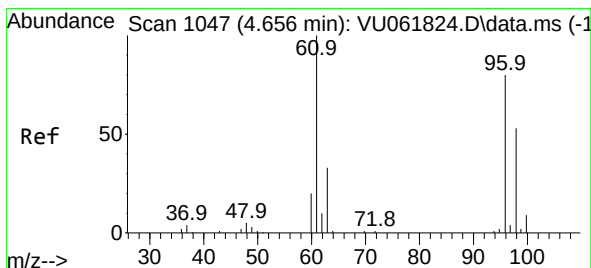
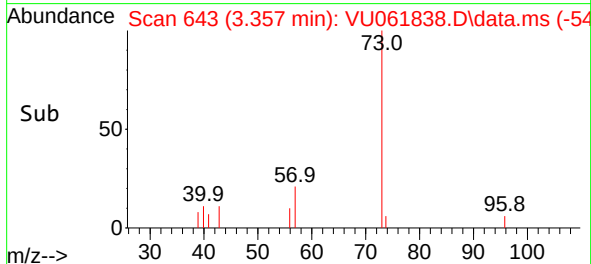
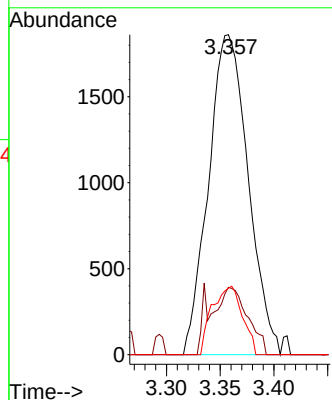
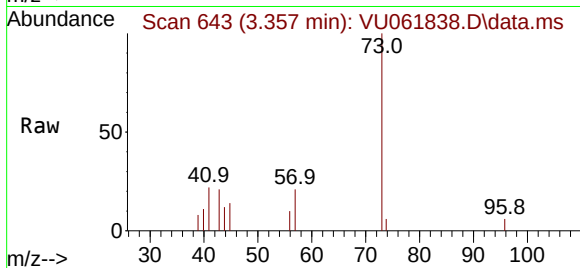
Tgt Ion: 73 Resp: 4777

Ion Ratio Lower Upper

73 100

43 15.7 14.2 21.4

57 16.3 16.9 25.3#



#22

cis-1,2-Dichloroethene

Concen: 0.186 ug/L

RT: 4.656 min Scan# 1047

Delta R.T. 0.000 min

Lab File: VU061838.D

Acq: 19 Nov 2024 02:37

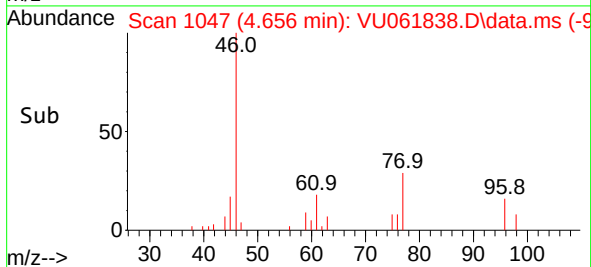
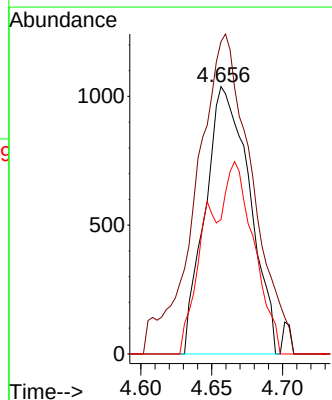
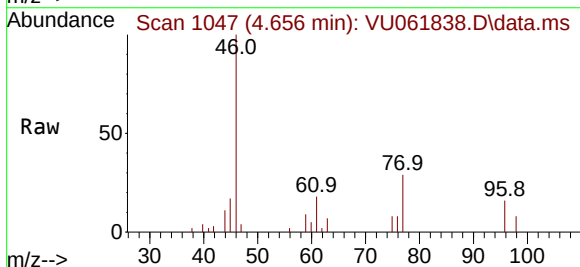
Tgt Ion: 96 Resp: 2254

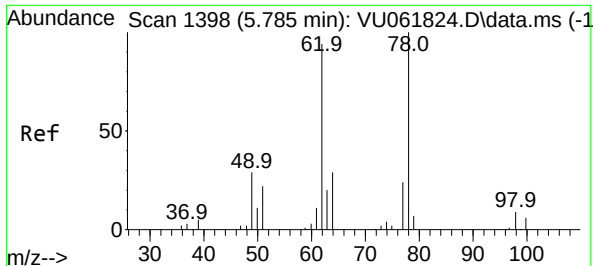
Ion Ratio Lower Upper

96 100

61 116.8 85.6 159.0

98 50.3 45.6 84.8

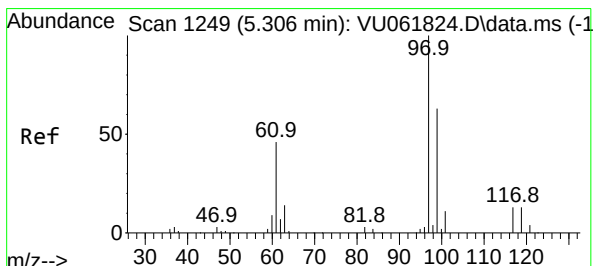
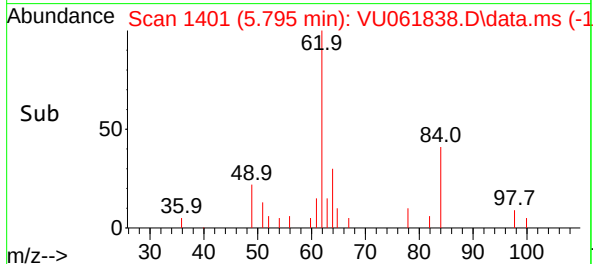
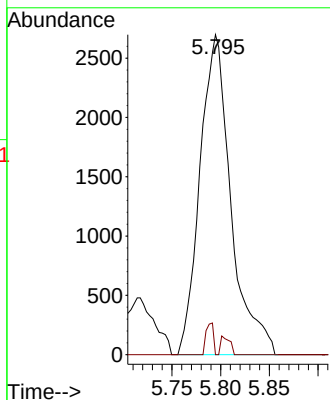
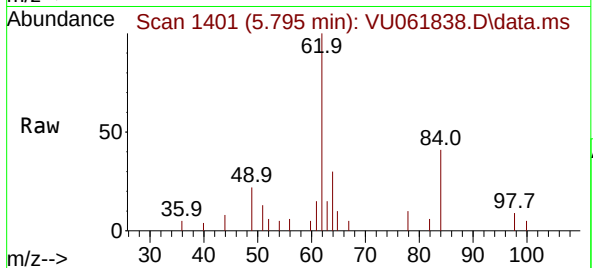




#27
1,2-Dichloroethane
Concen: 0.460 ug/L
RT: 5.795 min Scan# 1401
Delta R.T. 0.010 min
Lab File: VU061838.D
Acq: 19 Nov 2024 02:37

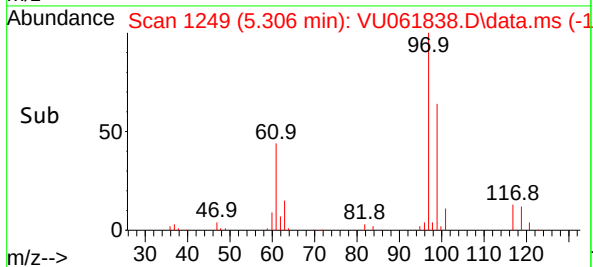
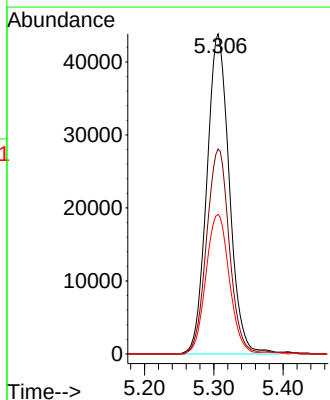
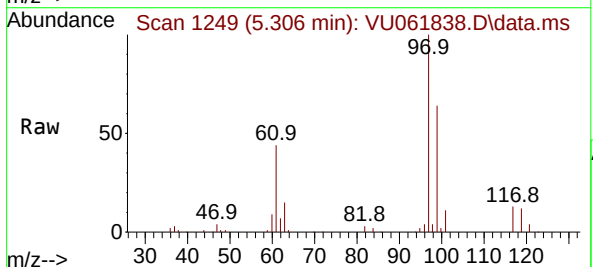
Instrument :
MSVOA_U
ClientSampleId :

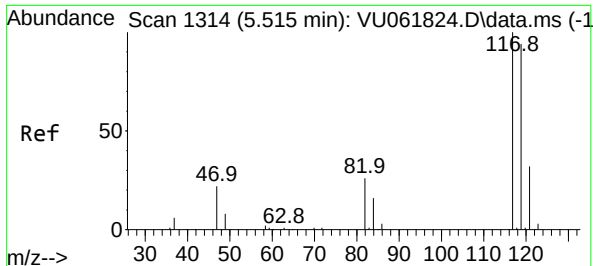
Tgt Ion: 62 Resp: 5964
Ion Ratio Lower Upper
62 100
98 0.0 7.7 11.5#



#29
1,1,1-Trichloroethane
Concen: 4.374 ug/L
RT: 5.306 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VU061838.D
Acq: 19 Nov 2024 02:37

Tgt Ion: 97 Resp: 98874
Ion Ratio Lower Upper
97 100
99 64.5 51.7 77.5
61 45.3 35.4 53.0

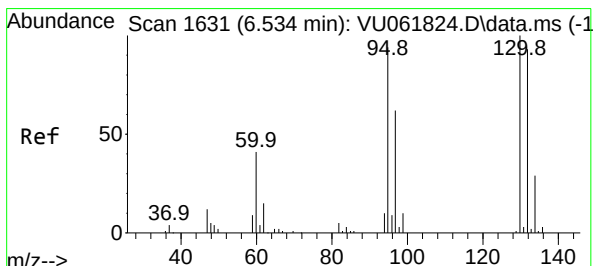
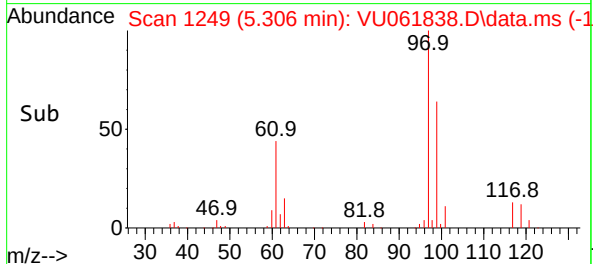
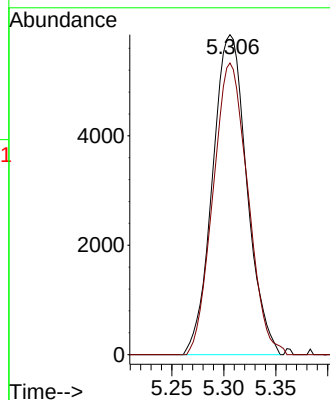
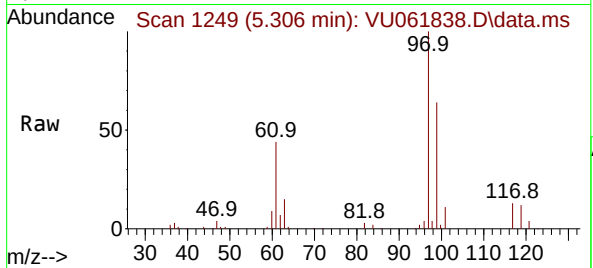




#31
Carbon tetrachloride
Concen: 0.699 ug/L
RT: 5.306 min Scan# 117
Delta R.T. -0.209 min
Lab File: VU061838.D
Acq: 19 Nov 2024 02:37

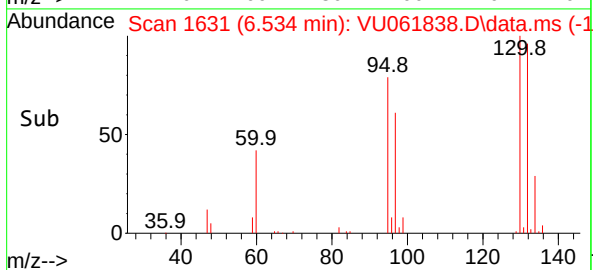
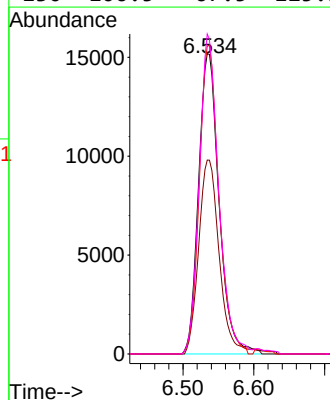
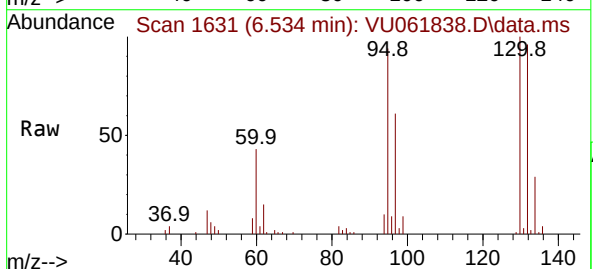
Instrument :
MSVOA_U
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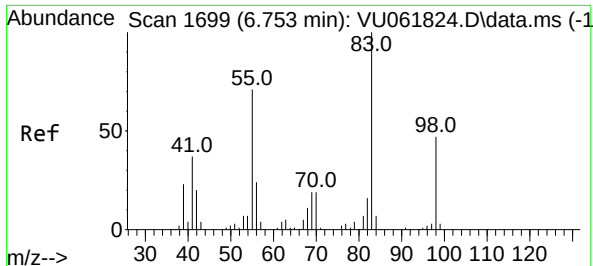
Tgt Ion:117 Resp: 13462
Ion Ratio Lower Upper
117 100
119 92.0 76.6 114.8



#34
Trichloroethene
Concen: 1.891 ug/L
RT: 6.534 min Scan# 1631
Delta R.T. 0.000 min
Lab File: VU061838.D
Acq: 19 Nov 2024 02:37

Tgt Ion: 95 Resp: 30698
Ion Ratio Lower Upper
95 100
97 64.5 43.5 80.9
132 102.5 65.2 121.0
130 106.5 67.5 125.3

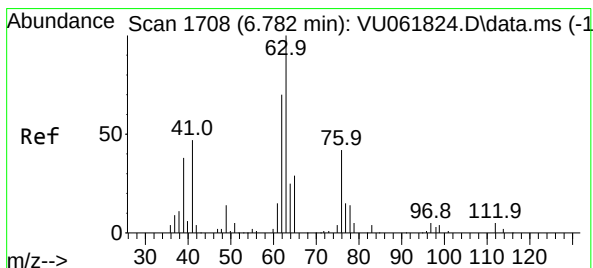
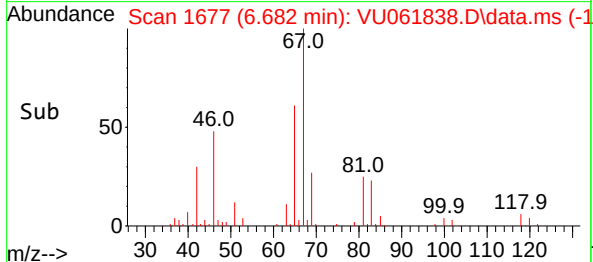
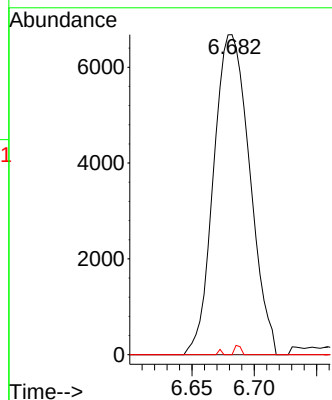
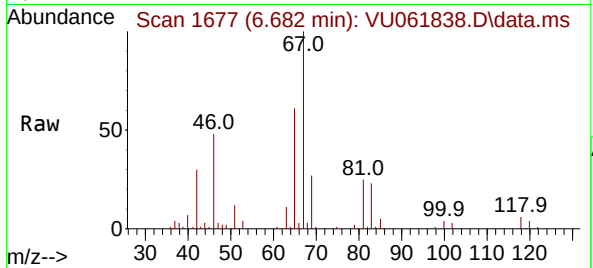




#35
Methylcyclohexane
Concen: 0.550 ug/L
RT: 6.682 min Scan# 1677
Delta R.T. -0.071 min
Lab File: VU061838.D
Acq: 19 Nov 2024 02:37

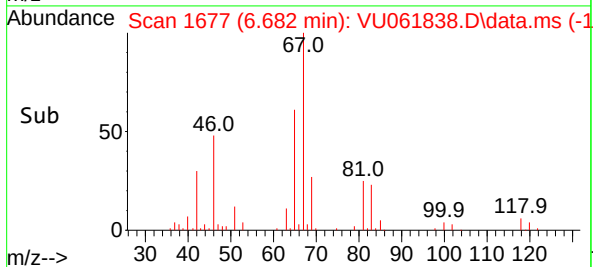
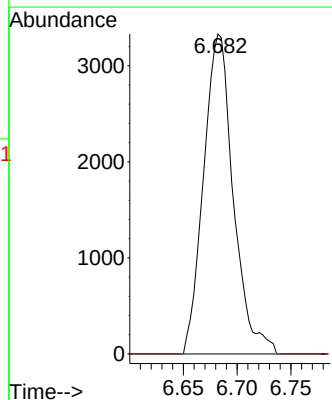
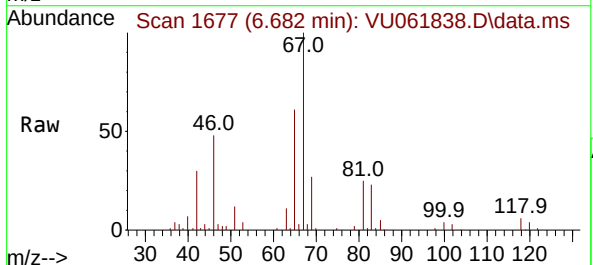
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MSVOA_U
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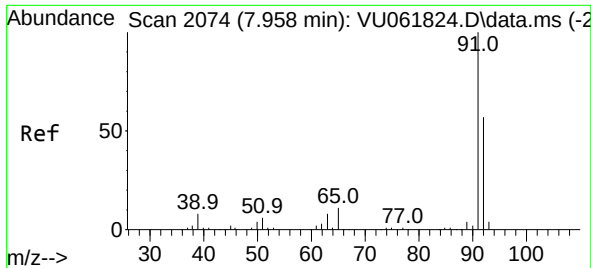
Tgt Ion: 83 Resp: 13467
Ion Ratio Lower Upper
83 100
55 0.0 56.4 84.6#
98 0.5 37.7 56.5#



#37
1,2-Dichloropropane
Concen: 0.421 ug/L
RT: 6.682 min Scan# 1677
Delta R.T. -0.100 min
Lab File: VU061838.D
Acq: 19 Nov 2024 02:37

Tgt Ion: 63 Resp: 6416
Ion Ratio Lower Upper
63 100
112 0.0 3.0 4.4#





#42

Toluene

Concen: 1.215 ug/L

RT: 7.962 min Scan# 2074

Delta R.T. 0.003 min

Lab File: VU061838.D

Acq: 19 Nov 2024 02:37

Instrument :

MSVOA_U

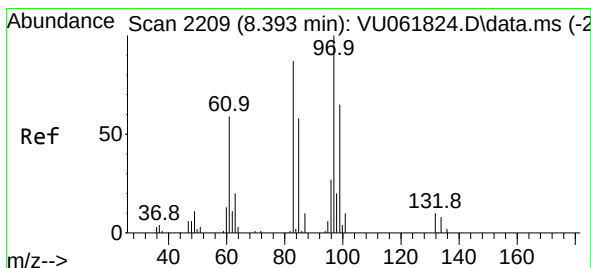
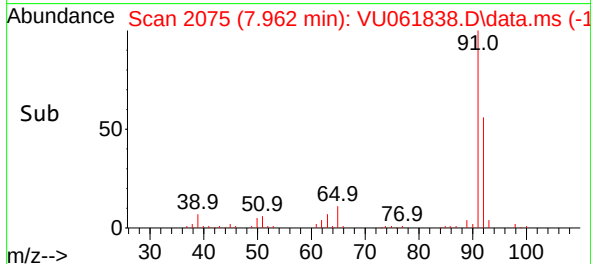
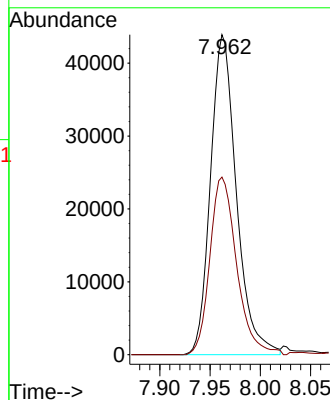
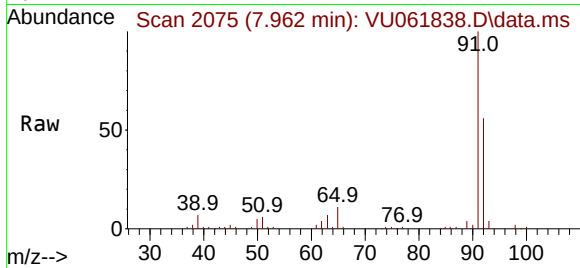
ClientSampleId :

Tgt Ion: 91 Resp: 78669

Ion Ratio Lower Upper

91 100

92 55.5 39.7 73.7



#45

1,1,2-Trichloroethane

Concen: 0.205 ug/L

RT: 8.541 min Scan# 2255

Delta R.T. 0.148 min

Lab File: VU061838.D

Acq: 19 Nov 2024 02:37

Tgt Ion: 97 Resp: 2282

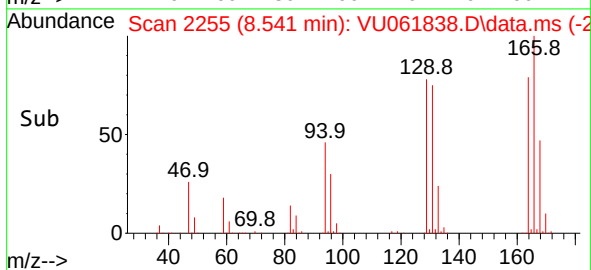
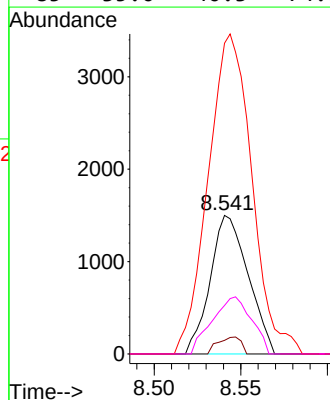
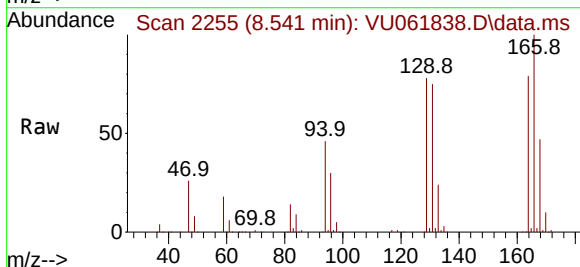
Ion Ratio Lower Upper

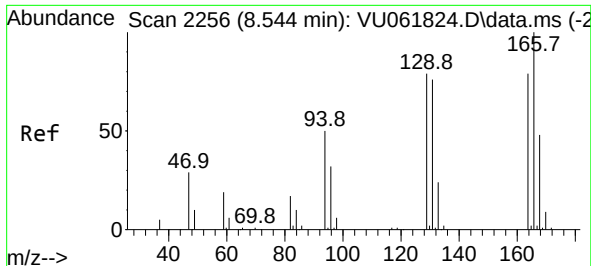
97 100

99 9.8 43.8 81.3#

83 224.2 63.2 117.4#

85 35.0 40.3 74.8#





#47

Tetrachloroethene

Concen: 22.308 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. 0.000 min

Lab File: VU061838.D

Acq: 19 Nov 2024 02:37

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:164 Resp: 272138

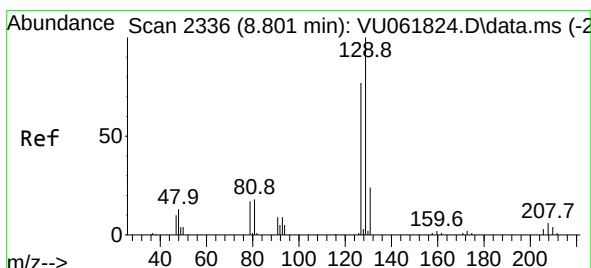
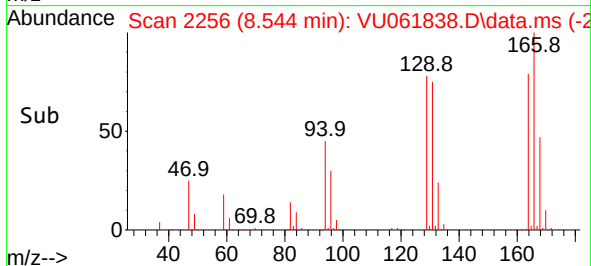
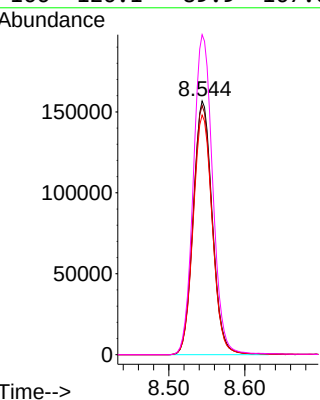
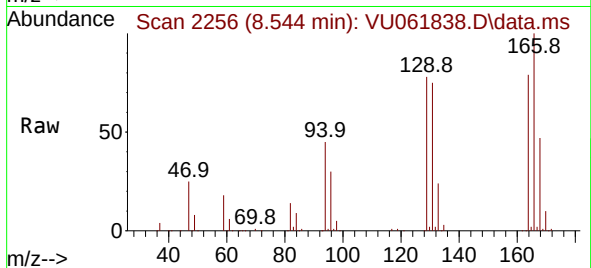
Ion Ratio Lower Upper

164 100

129 98.2 71.7 133.3

131 94.4 68.2 126.6

166 126.1 89.9 167.0



#49

Dibromochloromethane

Concen: 22.678 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. -0.257 min

Lab File: VU061838.D

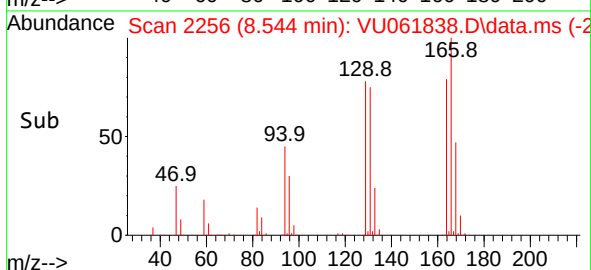
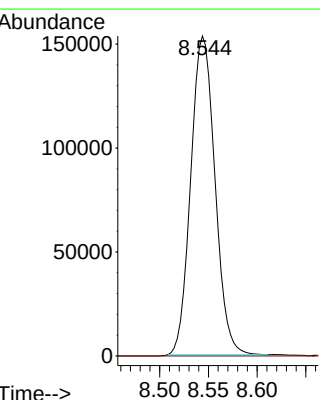
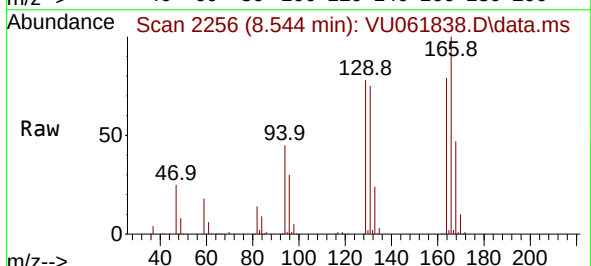
Acq: 19 Nov 2024 02:37

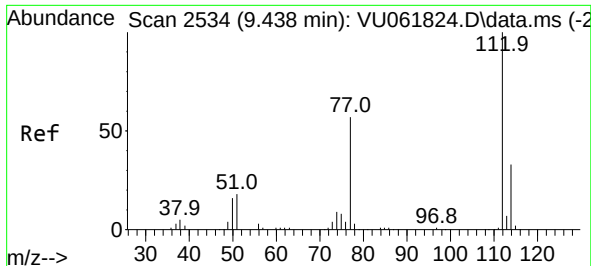
Tgt Ion:129 Resp: 264412

Ion Ratio Lower Upper

129 100

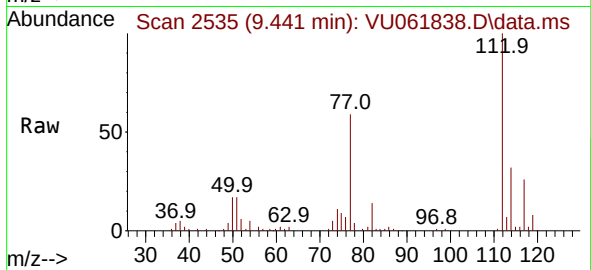
127 0.0 55.1 102.3#



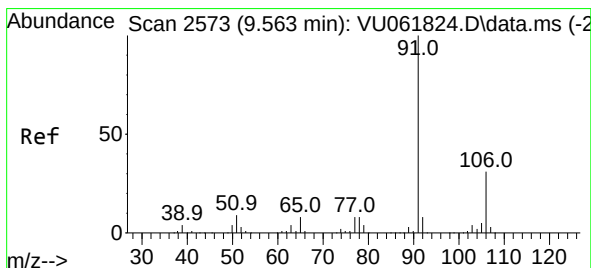
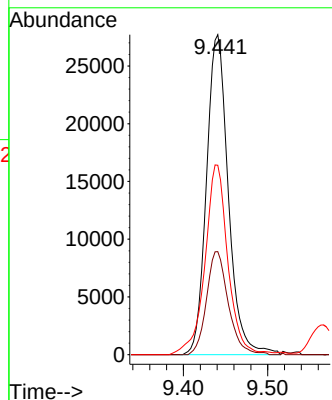
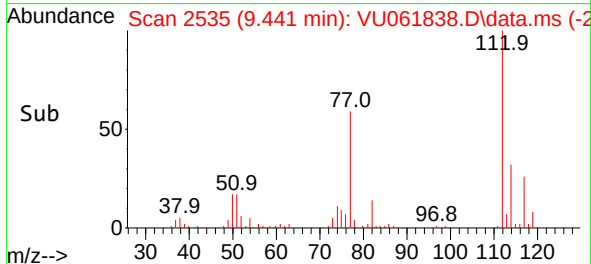


#51
Chlorobenzene
Concen: 1.200 ug/L
RT: 9.441 min Scan# 2535
Delta R.T. 0.003 min
Lab File: VU061838.D
Acq: 19 Nov 2024 02:37

Instrument :
MSVOA_U
ClientSampleId :

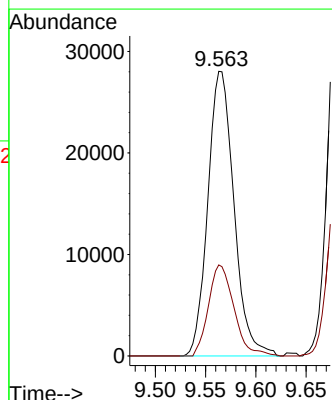
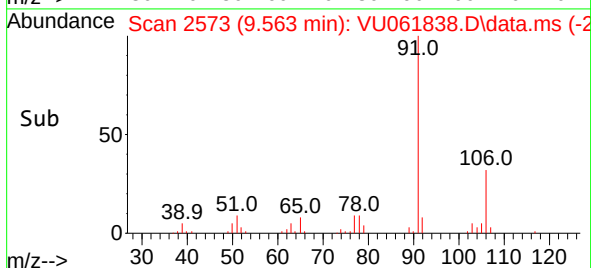
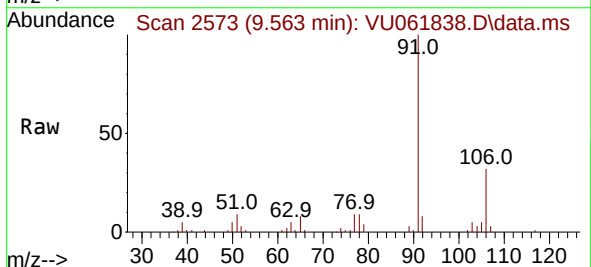


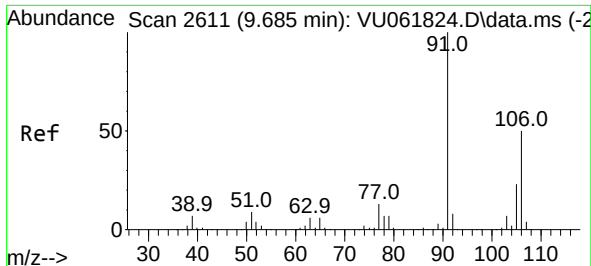
Tgt Ion:112 Resp: 50012
Ion Ratio Lower Upper
112 100
114 32.2 22.5 41.9
77 59.2 45.3 67.9



#52
Ethylbenzene
Concen: 0.736 ug/L
RT: 9.563 min Scan# 2573
Delta R.T. 0.000 min
Lab File: VU061838.D
Acq: 19 Nov 2024 02:37

Tgt Ion: 91 Resp: 50722
Ion Ratio Lower Upper
91 100
106 32.0 21.7 40.3





#53

m,p-Xylene

Concen: 1.446 ug/L

RT: 9.685 min Scan# 2611

Delta R.T. 0.000 min

Lab File: VU061838.D

Acq: 19 Nov 2024 02:37

Instrument :

MSVOA_U

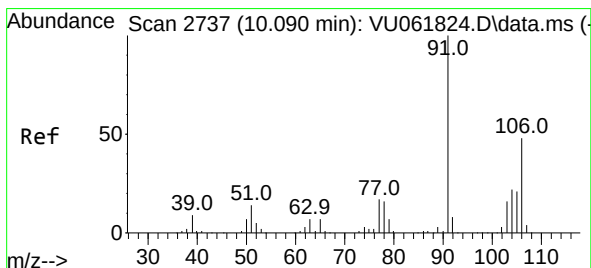
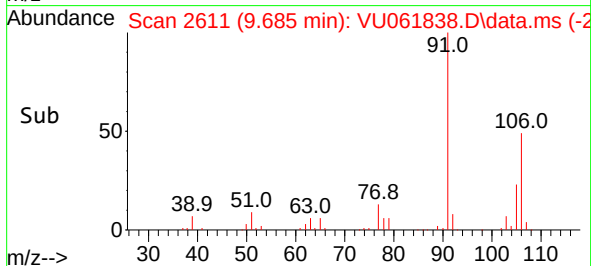
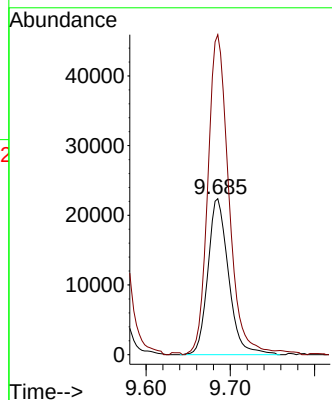
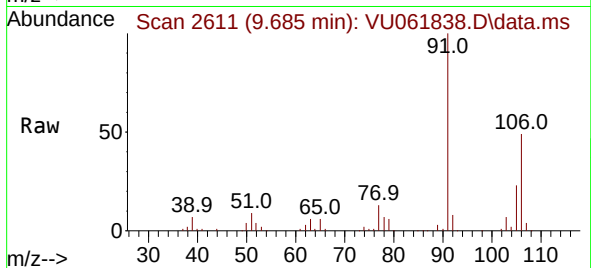
ClientSampleId :

Tgt Ion:106 Resp: 38164

Ion Ratio Lower Upper

106 100

91 205.2 140.4 260.8



#54

o-Xylene

Concen: 0.345 ug/L

RT: 10.094 min Scan# 2738

Delta R.T. 0.003 min

Lab File: VU061838.D

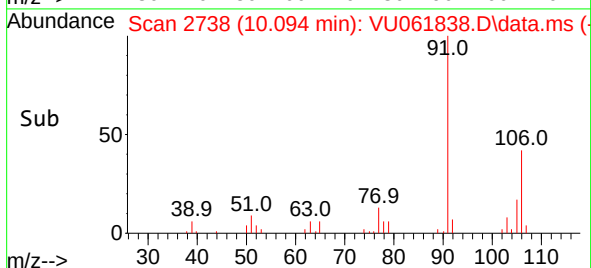
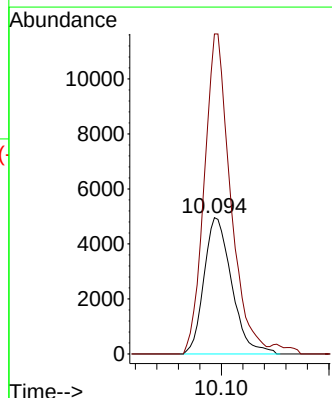
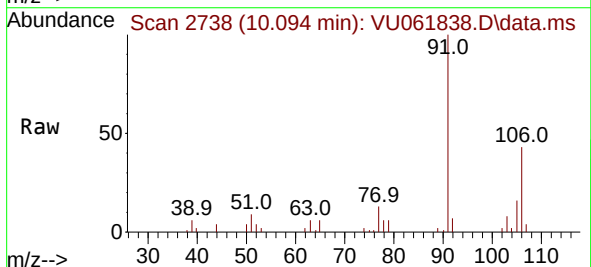
Acq: 19 Nov 2024 02:37

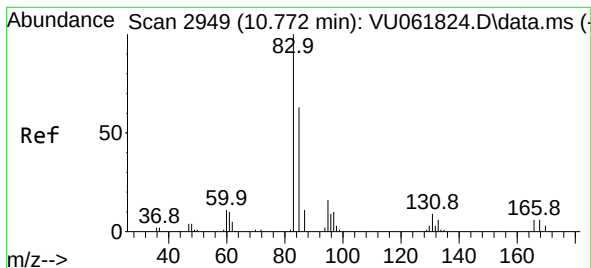
Tgt Ion:106 Resp: 8848

Ion Ratio Lower Upper

106 100

91 234.6 151.3 280.9





#57

1,1,2,2-Tetrachloroethane

Concen: 0.334 ug/L

RT: 10.772 min Scan# 2949

Delta R.T. 0.000 min

Lab File: VU061838.D

Acq: 19 Nov 2024 02:37

Instrument :

MSVOA_U

ClientSampleId :

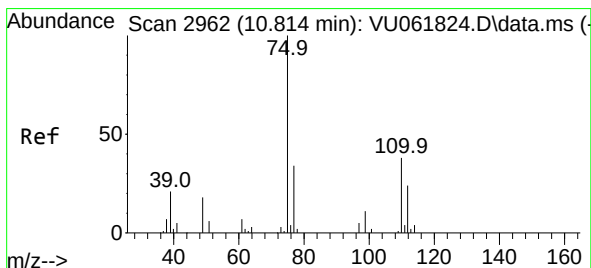
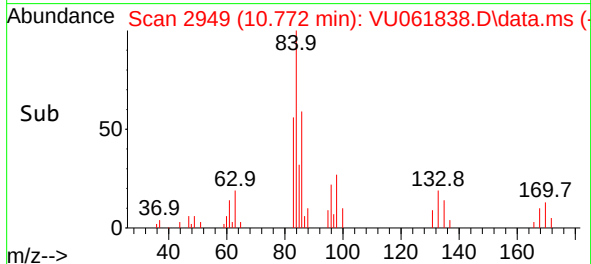
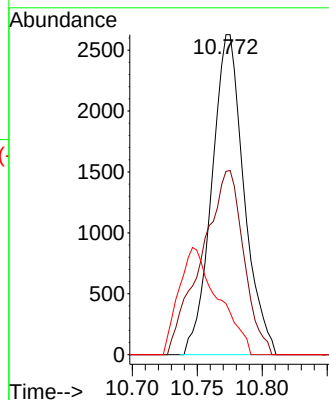
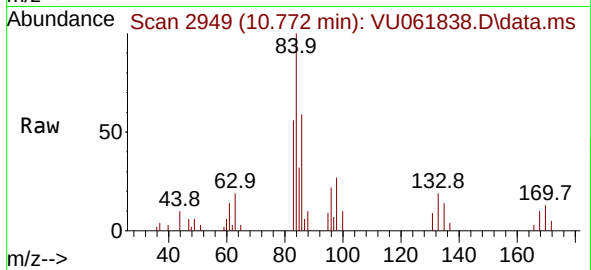
Tgt Ion: 83 Resp: 4516

Ion Ratio Lower Upper

83 100

85 57.3 41.9 77.9

131 16.0 7.8 11.6#



#61

1,2,3-Trichloropropane

Concen: 1.383 ug/L

RT: 11.804 min Scan# 3270

Delta R.T. 0.990 min

Lab File: VU061838.D

Acq: 19 Nov 2024 02:37

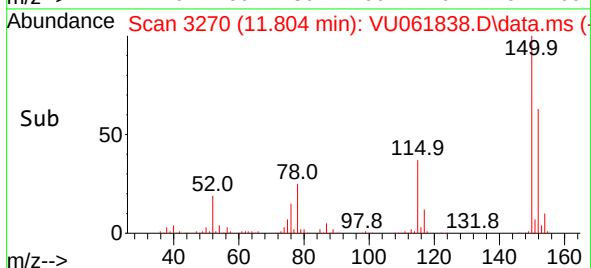
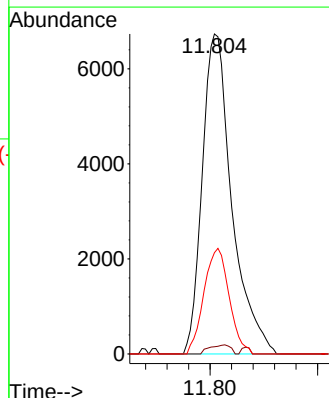
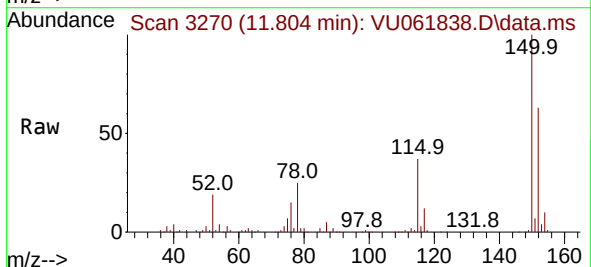
Tgt Ion: 75 Resp: 12873

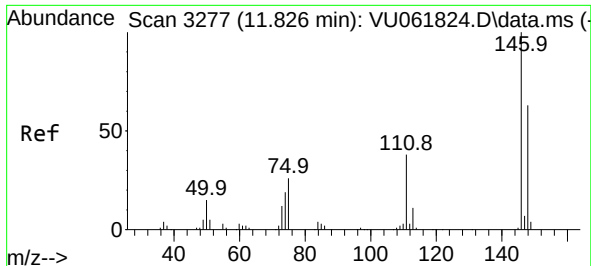
Ion Ratio Lower Upper

75 100

110 2.0 31.3 46.9#

77 28.2 26.0 39.0





#65

1,4-Dichlorobenzene

Concen: 0.172 ug/L

RT: 11.833 min Scan# 31

Delta R.T. 0.007 min

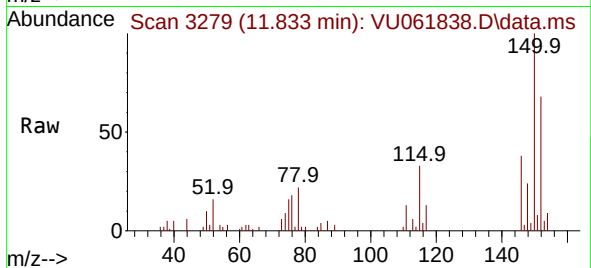
Lab File: VU061838.D

Acq: 19 Nov 2024 02:37

Instrument :

MSVOA_U

ClientSampleId :



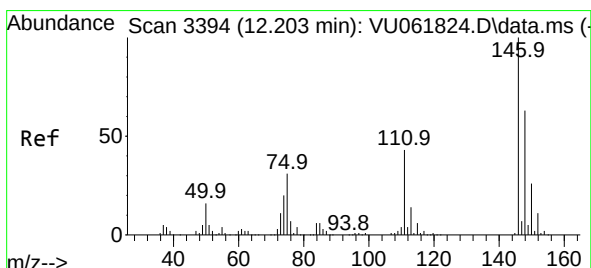
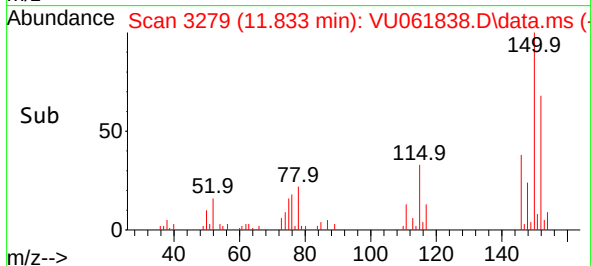
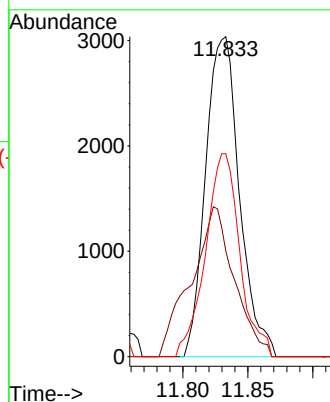
Tgt Ion:146 Resp: 5501

Ion Ratio Lower Upper

146 100

111 33.1 28.8 53.4

148 63.4 44.7 83.1



#67

1,2-Dichlorobenzene

Concen: 1.591 ug/L

RT: 12.203 min Scan# 3394

Delta R.T. 0.000 min

Lab File: VU061838.D

Acq: 19 Nov 2024 02:37

Tgt Ion:146 Resp: 46490

Ion Ratio Lower Upper

146 100

111 44.6 35.2 52.8

148 63.8 52.6 79.0

