

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111824\
 Data File : VU061837.D
 Acq On : 19 Nov 2024 02:13
 Operator : MD/SY
 Sample : P4885-08
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 19 03:42:57 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	165777	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	158953	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	87810	5.000	ug/L	# 0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	35347	3.300	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	66.000%
7) Chloroethane-d5	1.907	69	35909	3.927	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	78.600%
11) 1,1-Dichloroethene-d2	2.560	65	16598	3.454	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.000%
20) 2-Butanone-d5	4.611	46	110280	48.508	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.020%
24) Chloroform-d	5.052	84	92485	4.344	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.800%
26) 1,2-Dichloroethane-d4	5.692	65	48486	4.746	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.000%
32) Benzene-d6	5.717	84	187375	4.261	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.200%
36) 1,2-Dichloropropane-d6	6.679	67	59205	4.565	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.200%
41) Toluene-d8	7.891	98	164699	4.018	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.400%
43) trans-1,3-Dichloroprop...	8.171	79	19197	4.018	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.400%
46) 2-Hexanone-d5	8.621	63	89135	47.216	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.440%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	49280	4.820	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.400%
66) 1,2-Dichlorobenzene-d4	12.187	152	76602	4.898	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.000%
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	2.570	101	22736	2.121	ug/L	98
16) Methylene chloride	3.036	84	34907	3.027	ug/L	98
17) Methyl tert-butyl Ether	3.357	73	7753	0.316	ug/L	97
19) 1,1-Dichloroethane	3.865	63	2871	0.143	ug/L	# 90
22) cis-1,2-Dichloroethene	4.663	96	2844	0.230	ug/L	92
25) Chloroform	5.074	83	5181	0.246	ug/L	97
27) 1,2-Dichloroethane	5.791	62	4654	0.352	ug/L	98
29) 1,1,1-Trichloroethane	5.306	97	142288	7.866	ug/L	100
31) Carbon tetrachloride	5.306	117	19461	1.263	ug/L	94
34) Trichloroethene	6.534	95	28476	2.192	ug/L	98
35) Methylcyclohexane	6.682	83	14157	0.723	ug/L	# 20
37) 1,2-Dichloropropane	6.682	63	6359	0.521	ug/L	# 89
42) Toluene	7.962	91	100513	1.941	ug/L	99
45) 1,1,2-Trichloroethane	8.544	97	2647	0.298	ug/L	# 1
47) Tetrachloroethene	8.544	164	298403	30.571	ug/L	97
49) Dibromochloromethane	8.544	129	291361	31.231	ug/L	# 10
51) Chlorobenzene	9.438	112	49566	1.487	ug/L	98
52) Ethylbenzene	9.563	91	58415	1.059	ug/L	98
53) m,p-Xylene	9.682	106	43978	2.083	ug/L	98

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QLast Update : Tue Nov 19 03:37:44 2024
Response via : Initial Calibration

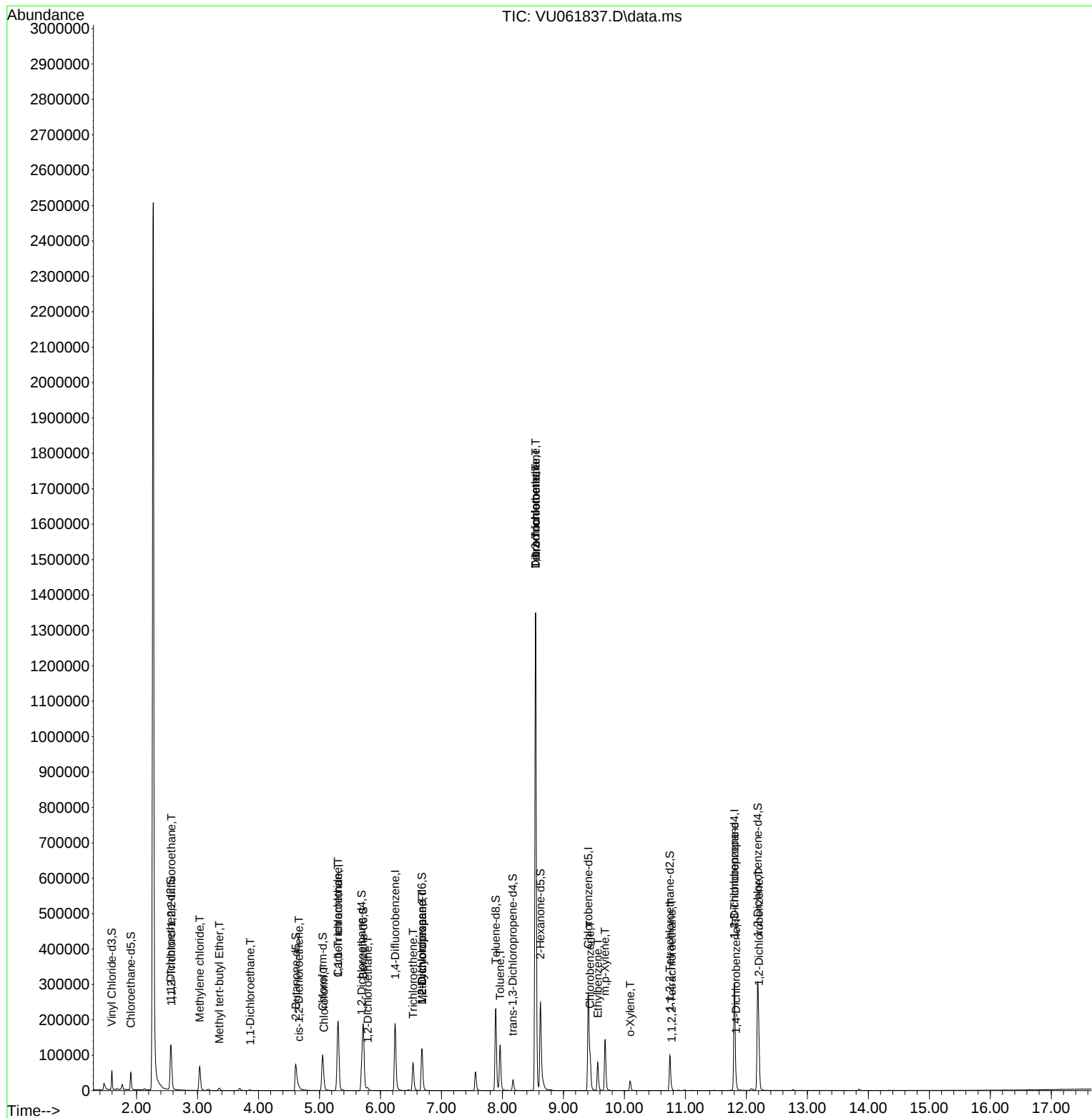
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.097	106	7895	0.385	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.775	83	3353	0.310	ug/L #	90
61) 1,2,3-Trichloropropane	11.804	75	11990	1.449	ug/L #	63
65) 1,4-Dichlorobenzene	11.833	146	5594	0.197	ug/L	90
67) 1,2-Dichlorobenzene	12.206	146	51651	1.989	ug/L	98

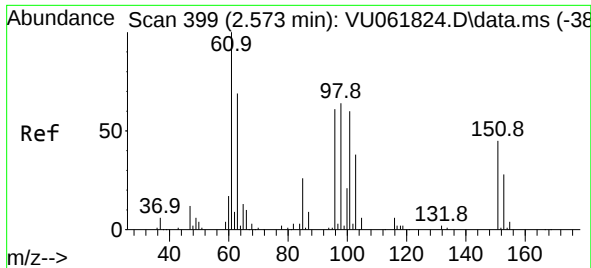
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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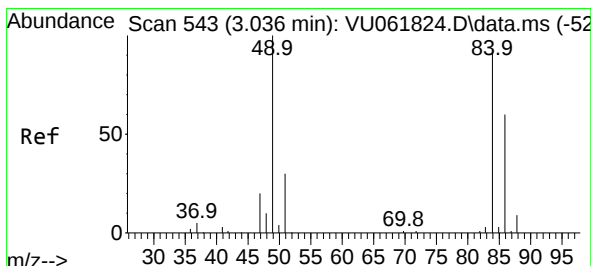
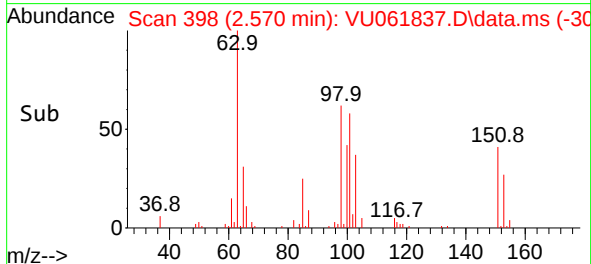
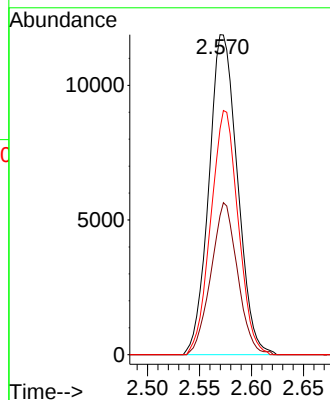
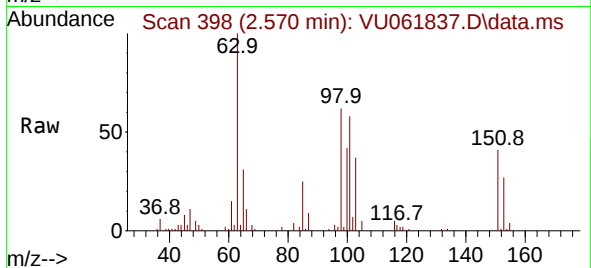




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 2.121 ug/L
RT: 2.570 min Scan# 399
Delta R.T. -0.003 min
Lab File: VU061837.D
Acq: 19 Nov 2024 02:13

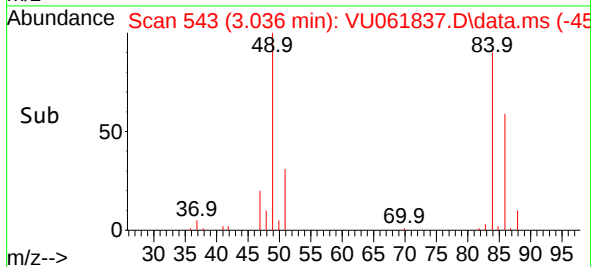
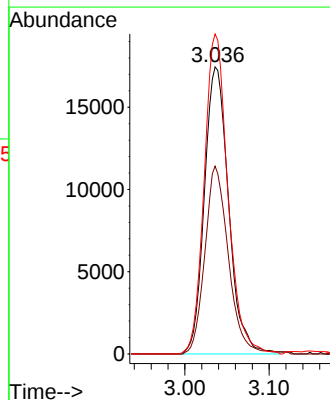
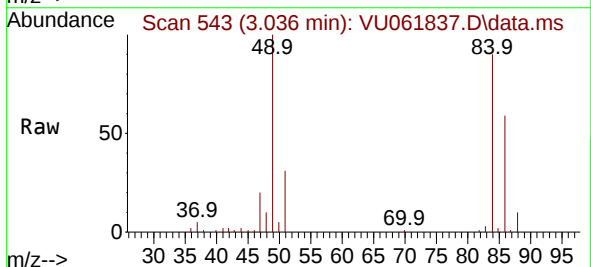
Instrument :
MSVOA_U
ClientSampleId :

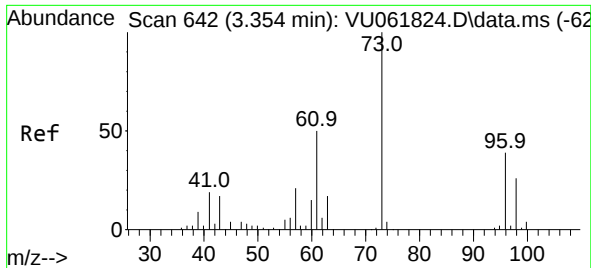
Tgt Ion:101 Resp: 22736
Ion Ratio Lower Upper
101 100
85 44.2 35.1 52.7
151 73.2 56.9 85.3



#16
Methylene chloride
Concen: 3.027 ug/L
RT: 3.036 min Scan# 543
Delta R.T. 0.000 min
Lab File: VU061837.D
Acq: 19 Nov 2024 02:13

Tgt Ion: 84 Resp: 34907
Ion Ratio Lower Upper
84 100
86 65.5 45.1 83.7
49 111.5 76.3 141.7





#17

Methyl tert-butyl Ether

Concen: 0.316 ug/L

RT: 3.357 min Scan# 64

Delta R.T. 0.003 min

Lab File: VU061837.D

Acq: 19 Nov 2024 02:13

Instrument :

MSVOA_U

ClientSampleId :

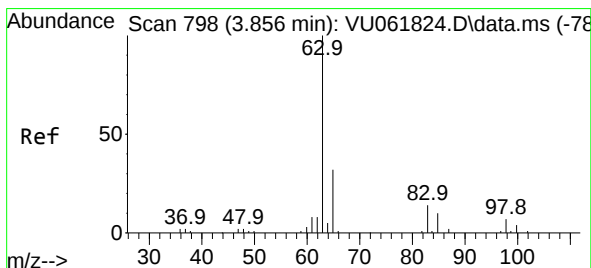
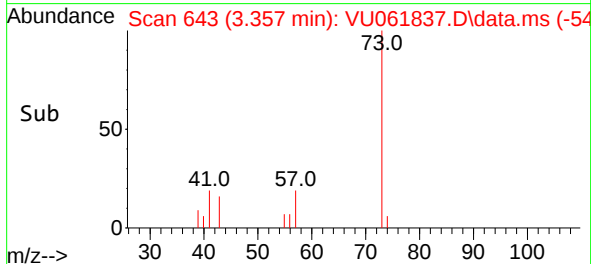
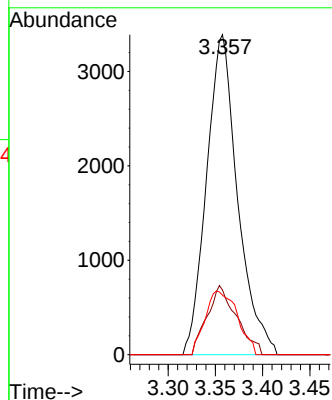
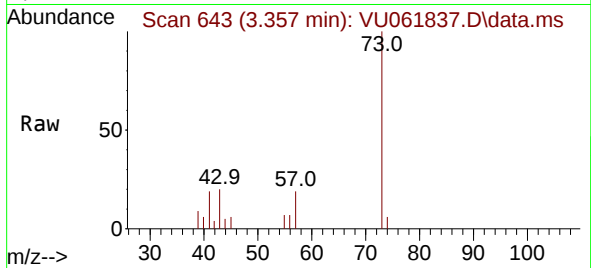
Tgt Ion: 73 Resp: 7753

Ion Ratio Lower Upper

73 100

43 20.5 14.2 21.4

57 20.6 16.9 25.3



#19

1,1-Dichloroethane

Concen: 0.143 ug/L

RT: 3.865 min Scan# 801

Delta R.T. 0.010 min

Lab File: VU061837.D

Acq: 19 Nov 2024 02:13

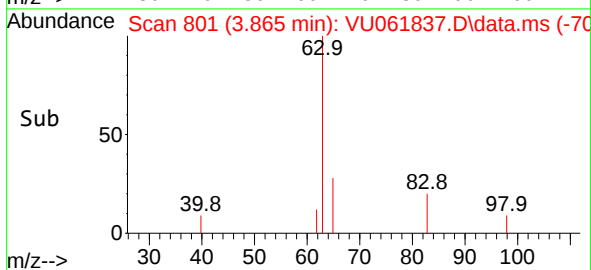
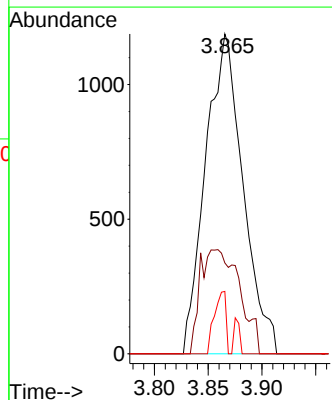
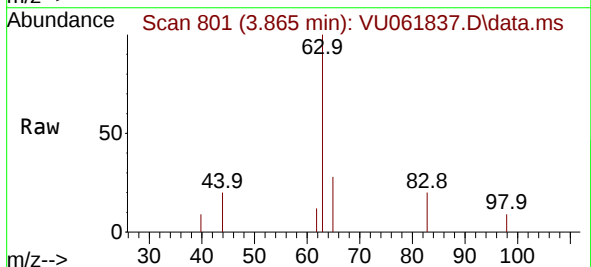
Tgt Ion: 63 Resp: 2871

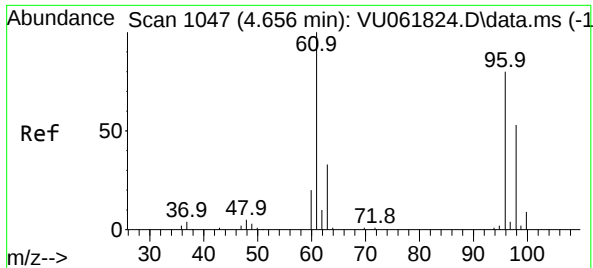
Ion Ratio Lower Upper

63 100

65 28.5 23.4 43.4

83 19.5 9.6 17.8#

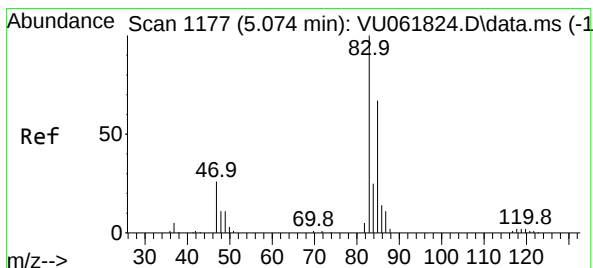
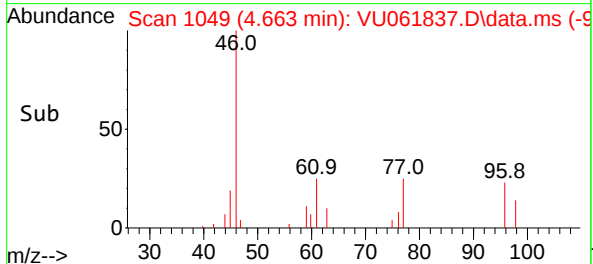
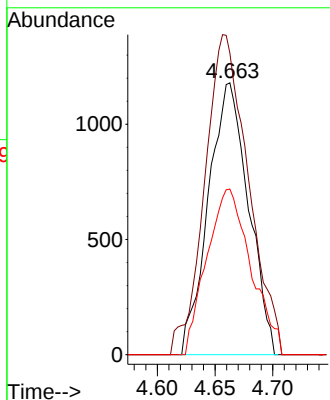
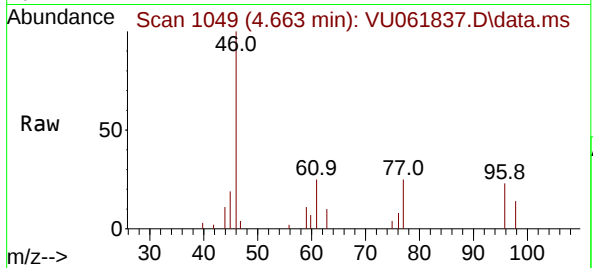




#22
 cis-1,2-Dichloroethene
 Concen: 0.230 ug/L
 RT: 4.663 min Scan# 1049
 Delta R.T. 0.006 min
 Lab File: VU061837.D
 Acq: 19 Nov 2024 02:13

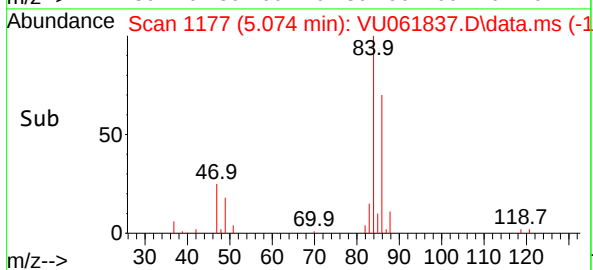
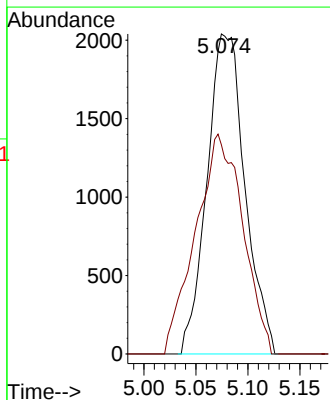
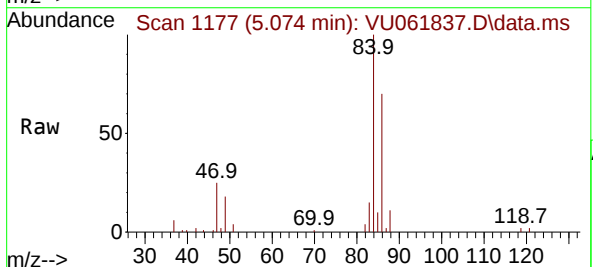
Instrument :
 MSVOA_U
 ClientSampleId :

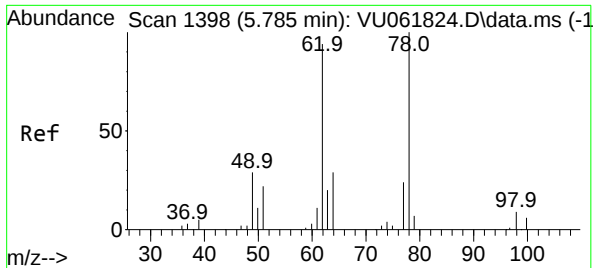
Tgt Ion: 96	Resp: 2844		
Ion	Ratio	Lower	Upper
96	100		
61	110.9	85.6	159.0
98	60.9	45.6	84.8



#25
 Chloroform
 Concen: 0.246 ug/L
 RT: 5.074 min Scan# 1177
 Delta R.T. 0.000 min
 Lab File: VU061837.D
 Acq: 19 Nov 2024 02:13

Tgt Ion: 83	Resp: 5181		
Ion	Ratio	Lower	Upper
83	100		
85	65.3	44.1	81.9

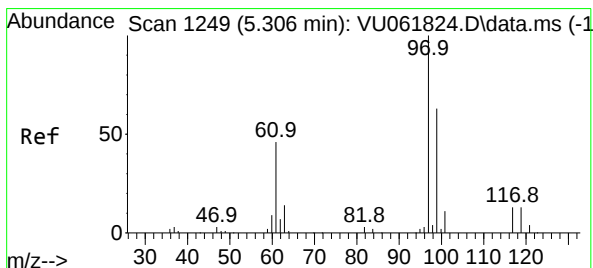
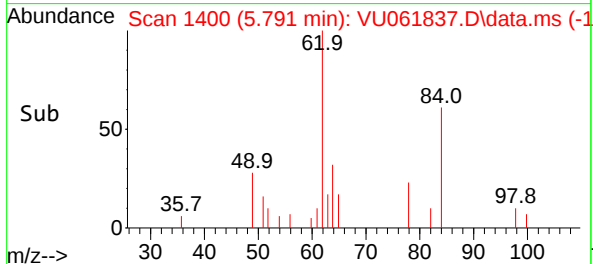
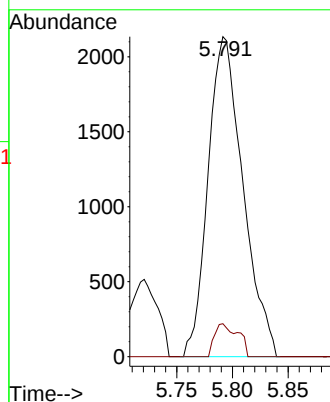
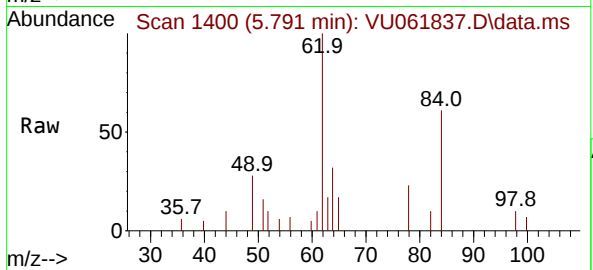




#27
1,2-Dichloroethane
Concen: 0.352 ug/L
RT: 5.791 min Scan# 1400
Delta R.T. 0.006 min
Lab File: VU061837.D
Acq: 19 Nov 2024 02:13

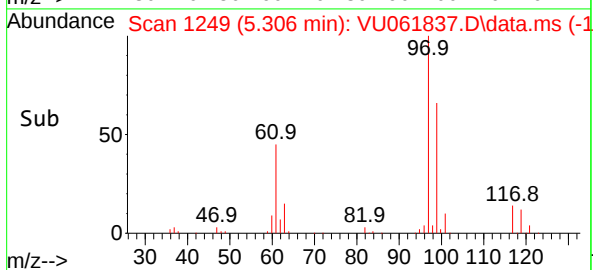
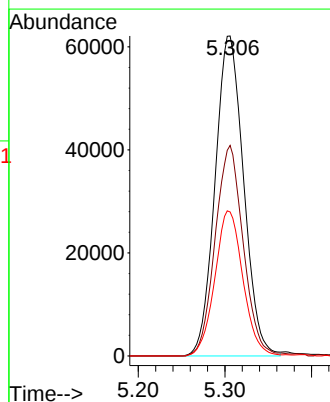
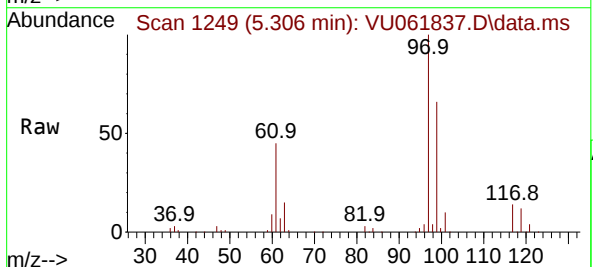
Instrument :
MSVOA_U
ClientSampleId :

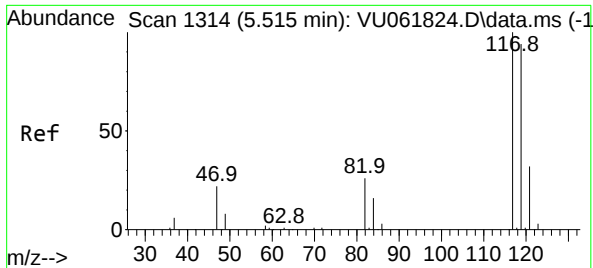
Tgt Ion: 62 Resp: 4654
Ion Ratio Lower Upper
62 100
98 10.3 7.7 11.5



#29
1,1,1-Trichloroethane
Concen: 7.866 ug/L
RT: 5.306 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VU061837.D
Acq: 19 Nov 2024 02:13

Tgt Ion: 97 Resp: 142288
Ion Ratio Lower Upper
97 100
99 64.8 51.7 77.5
61 44.7 35.4 53.0

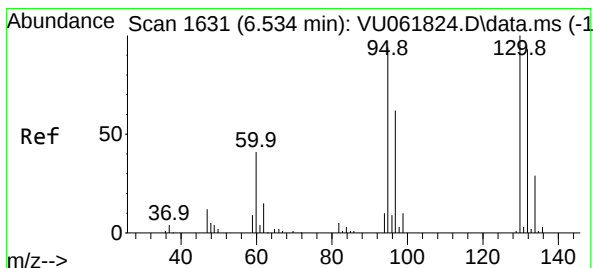
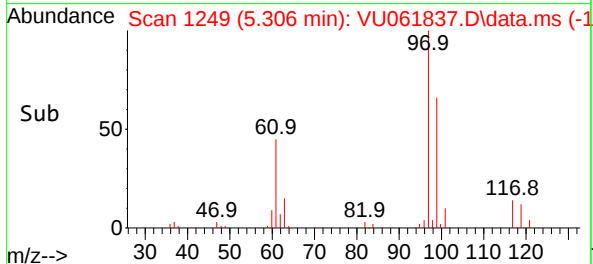
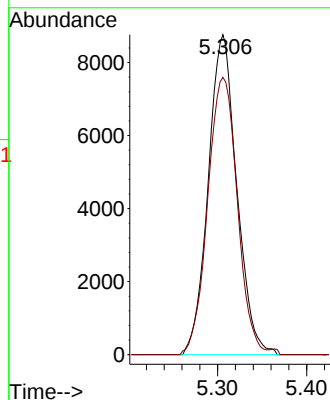
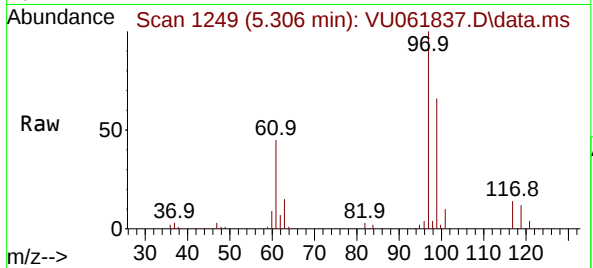




#31
Carbon tetrachloride
Concen: 1.263 ug/L
RT: 5.306 min Scan# 117
Delta R.T. -0.209 min
Lab File: VU061837.D
Acq: 19 Nov 2024 02:13

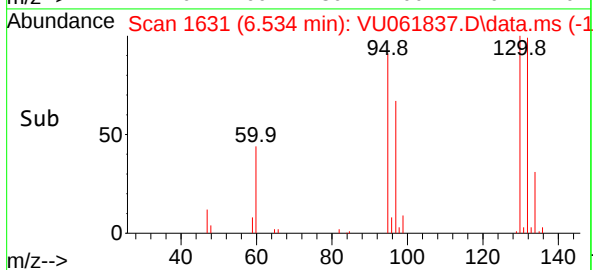
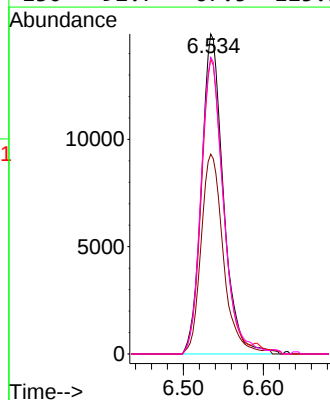
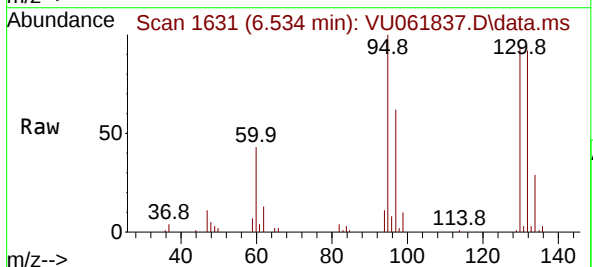
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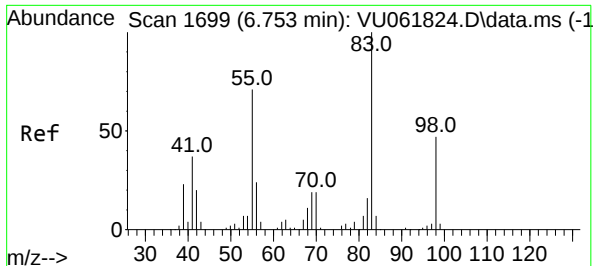
Tgt Ion:117 Resp: 19461
Ion Ratio Lower Upper
117 100
119 90.0 76.6 114.8



#34
Trichloroethene
Concen: 2.192 ug/L
RT: 6.534 min Scan# 1631
Delta R.T. 0.000 min
Lab File: VU061837.D
Acq: 19 Nov 2024 02:13

Tgt Ion: 95 Resp: 28476
Ion Ratio Lower Upper
95 100
97 62.4 43.5 80.9
132 92.2 65.2 121.0
130 92.7 67.5 125.3





#35

Methylcyclohexane

Concen: 0.723 ug/L

RT: 6.682 min Scan# 1677

Delta R.T. -0.071 min

Lab File: VU061837.D

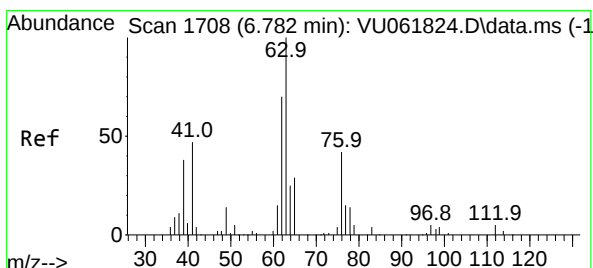
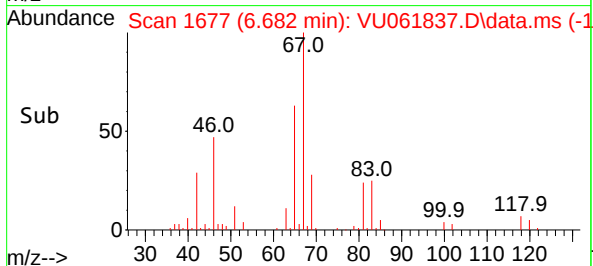
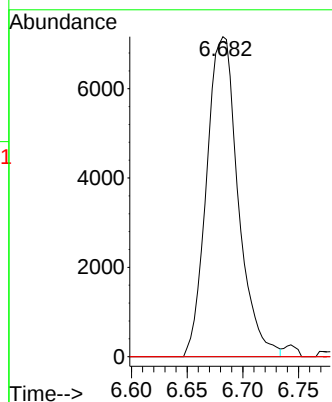
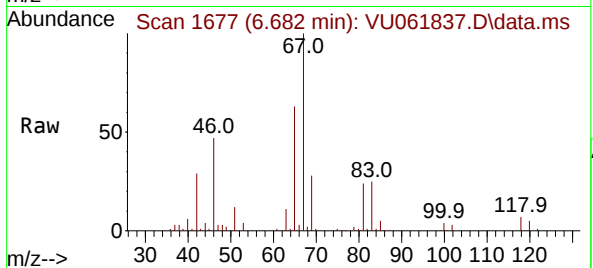
Acq: 19 Nov 2024 02:13

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 83	Resp: 14157
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: 0.521 ug/L

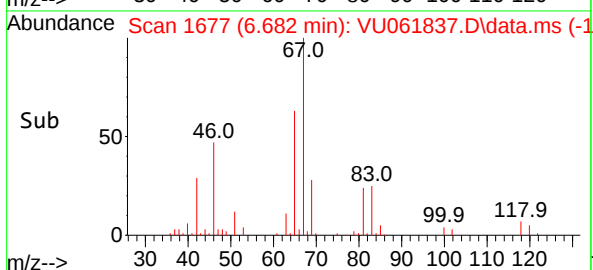
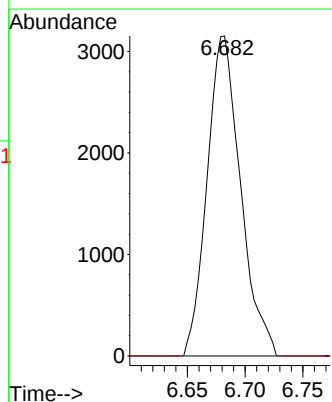
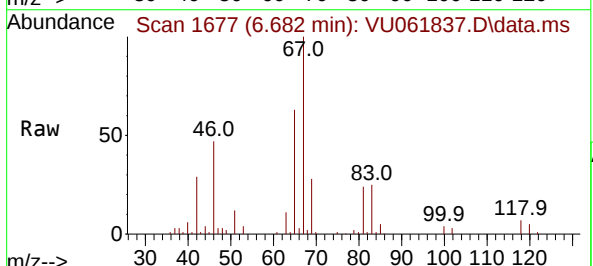
RT: 6.682 min Scan# 1677

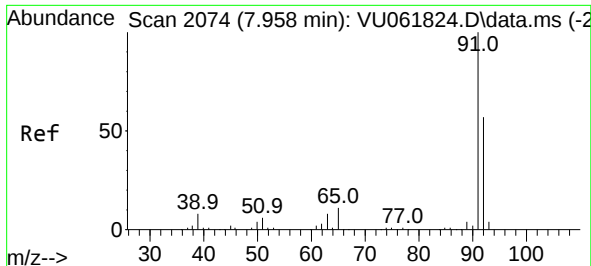
Delta R.T. -0.100 min

Lab File: VU061837.D

Acq: 19 Nov 2024 02:13

Tgt Ion: 63	Resp: 6359
Ion Ratio	Lower Upper
63	100
112	0.0 3.0 4.4#





#42

Toluene

Concen: 1.941 ug/L

RT: 7.962 min Scan# 2074

Delta R.T. 0.003 min

Lab File: VU061837.D

Acq: 19 Nov 2024 02:13

Instrument :

MSVOA_U

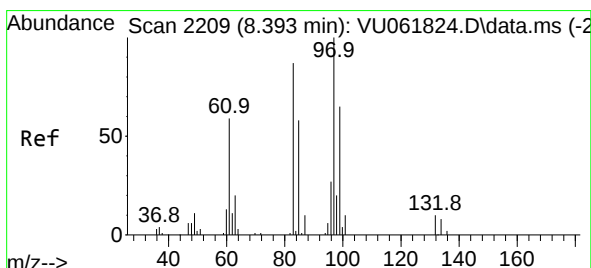
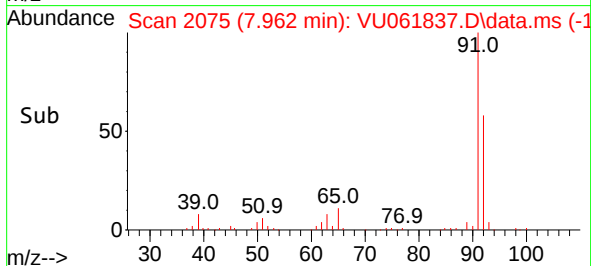
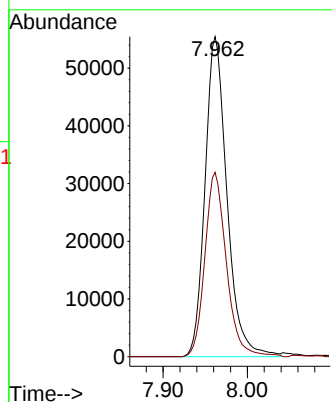
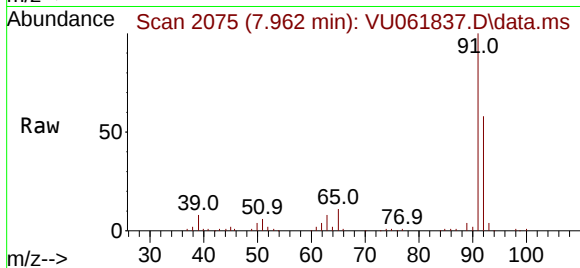
ClientSampleId :

Tgt Ion: 91 Resp: 100513

Ion Ratio Lower Upper

91 100

92 57.6 39.7 73.7



#45

1,1,2-Trichloroethane

Concen: 0.298 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. 0.151 min

Lab File: VU061837.D

Acq: 19 Nov 2024 02:13

Tgt Ion: 97 Resp: 2647

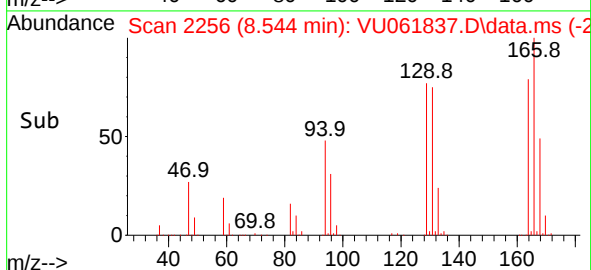
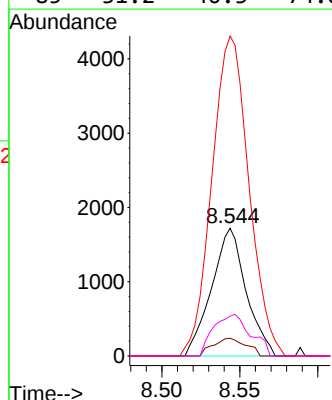
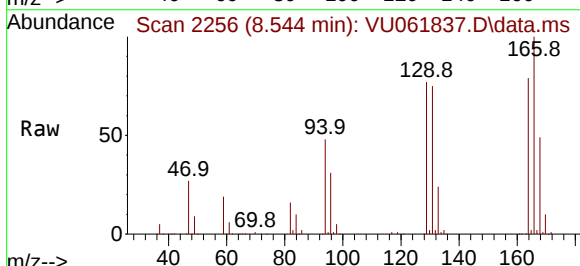
Ion Ratio Lower Upper

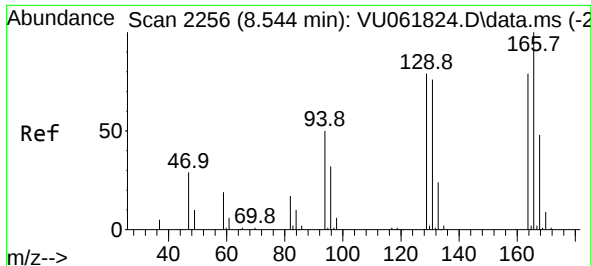
97 100

99 13.9 43.8 81.3#

83 250.7 63.2 117.4#

85 31.2 40.3 74.8#





#47

Tetrachloroethene

Concen: 30.571 ug/L

RT: 8.544 min Scan# 21

Delta R.T. 0.000 min

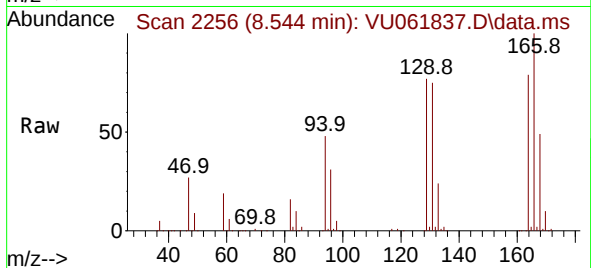
Lab File: VU061837.D

Acq: 19 Nov 2024 02:13

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 298403

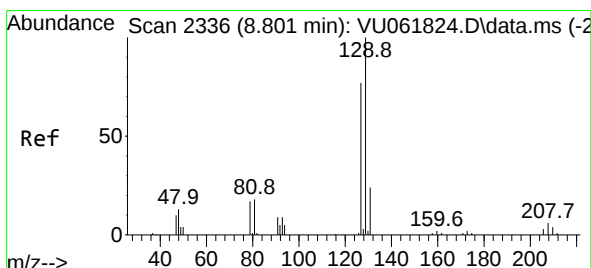
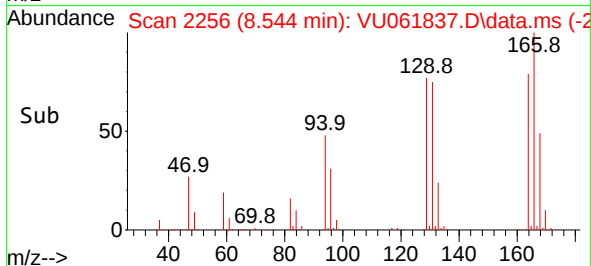
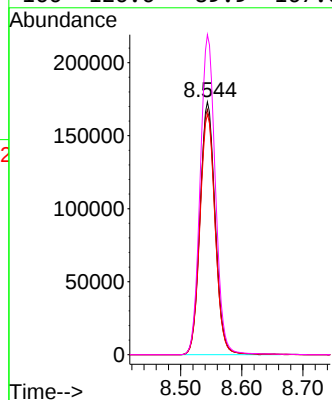
Ion Ratio Lower Upper

164 100

129 97.0 71.7 133.3

131 95.2 68.2 126.6

166 126.6 89.9 167.0



#49

Dibromochloromethane

Concen: 31.231 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. -0.257 min

Lab File: VU061837.D

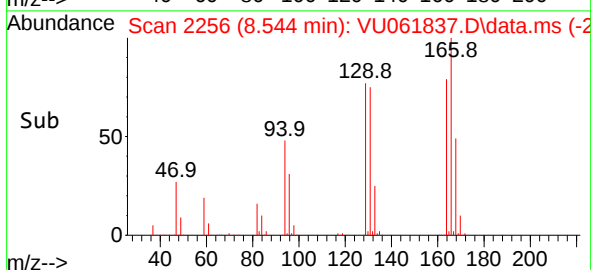
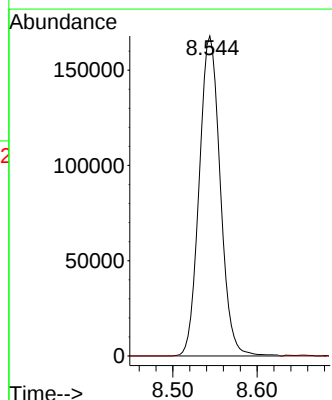
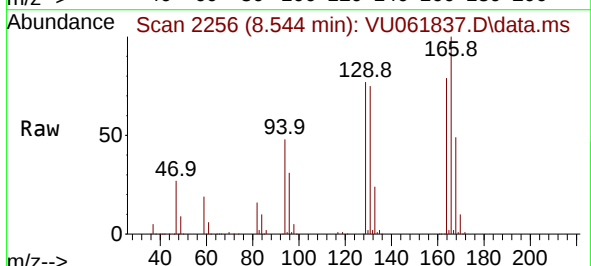
Acq: 19 Nov 2024 02:13

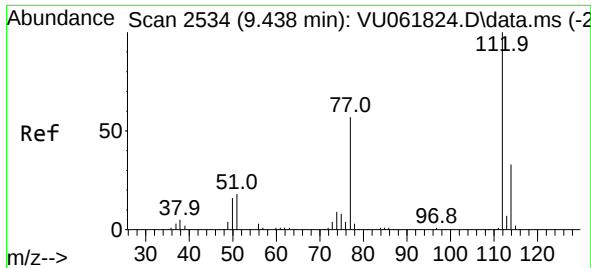
Tgt Ion:129 Resp: 291361

Ion Ratio Lower Upper

129 100

127 0.0 55.1 102.3#

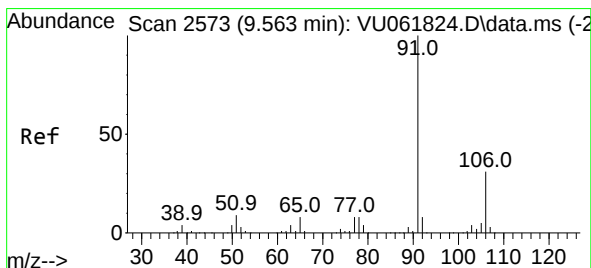
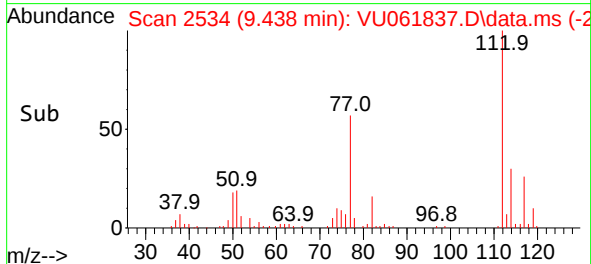
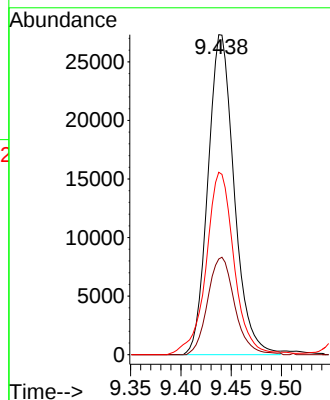
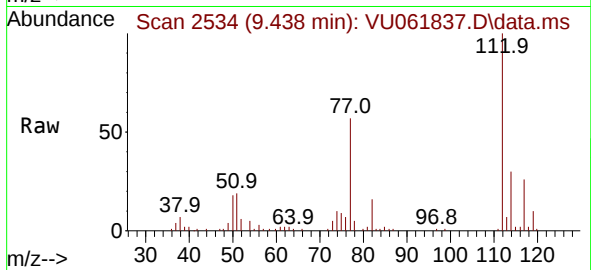




#51
Chlorobenzene
Concen: 1.487 ug/L
RT: 9.438 min Scan# 2534
Delta R.T. 0.000 min
Lab File: VU061837.D
Acq: 19 Nov 2024 02:13

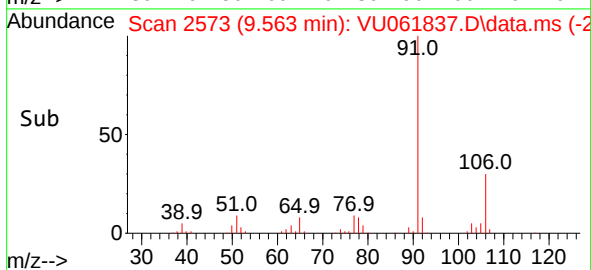
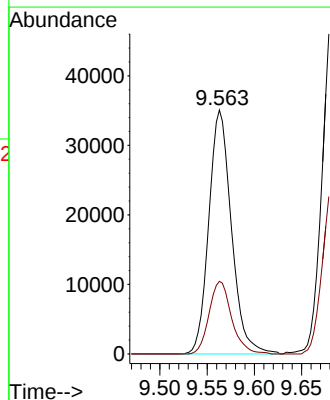
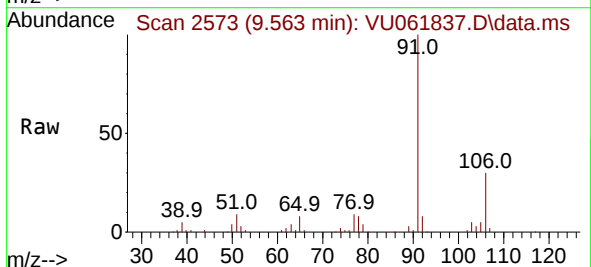
Instrument :
MSVOA_U
ClientSampleId :

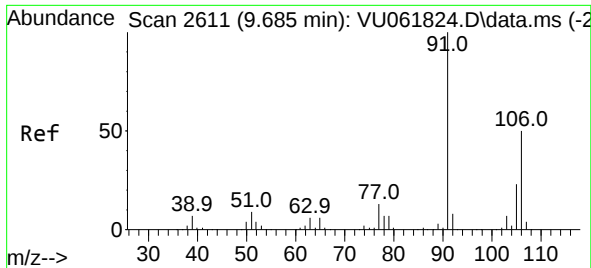
Tgt Ion:112 Resp: 49566
Ion Ratio Lower Upper
112 100
114 29.9 22.5 41.9
77 57.0 45.3 67.9



#52
Ethylbenzene
Concen: 1.059 ug/L
RT: 9.563 min Scan# 2573
Delta R.T. 0.000 min
Lab File: VU061837.D
Acq: 19 Nov 2024 02:13

Tgt Ion: 91 Resp: 58415
Ion Ratio Lower Upper
91 100
106 29.8 21.7 40.3

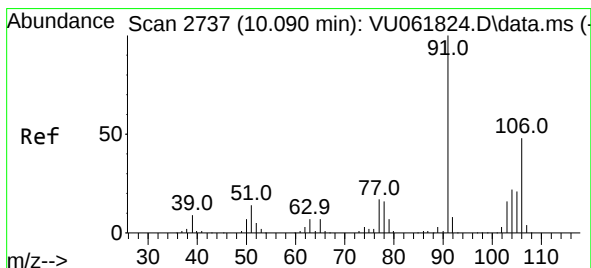
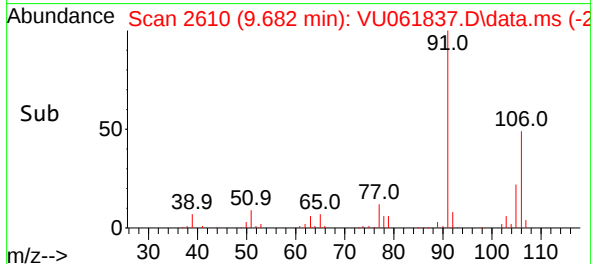
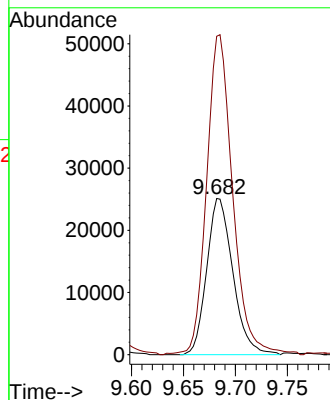
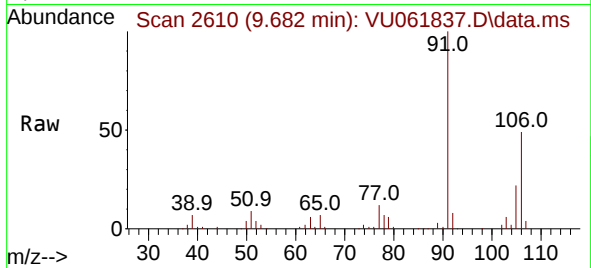




#53
m,p-Xylene
Concen: 2.083 ug/L
RT: 9.682 min Scan# 2610
Delta R.T. -0.003 min
Lab File: VU061837.D
Acq: 19 Nov 2024 02:13

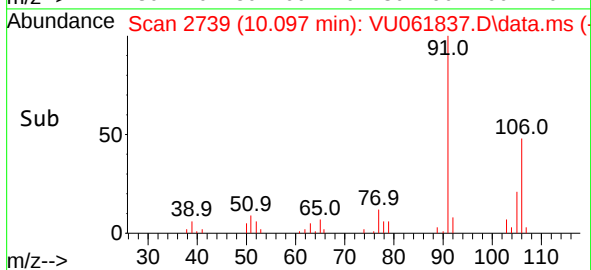
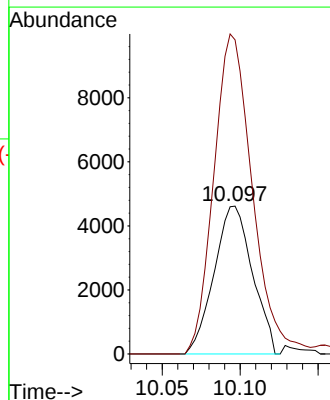
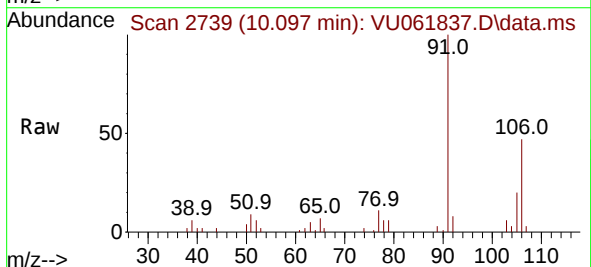
Instrument :
MSVOA_U
ClientSampleId :

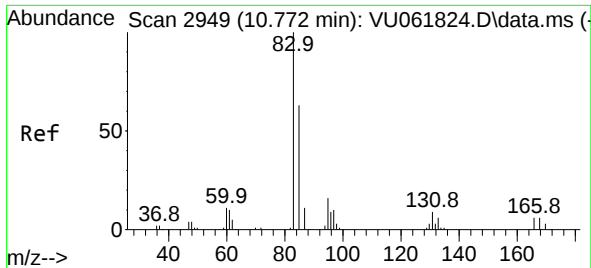
Tgt Ion:106 Resp: 43978
Ion Ratio Lower Upper
106 100
91 203.8 140.4 260.8



#54
o-Xylene
Concen: 0.385 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. 0.007 min
Lab File: VU061837.D
Acq: 19 Nov 2024 02:13

Tgt Ion:106 Resp: 7895
Ion Ratio Lower Upper
106 100
91 212.4 151.3 280.9

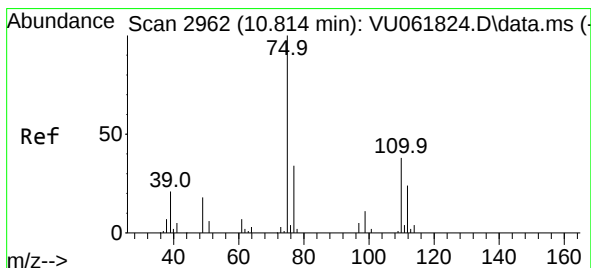
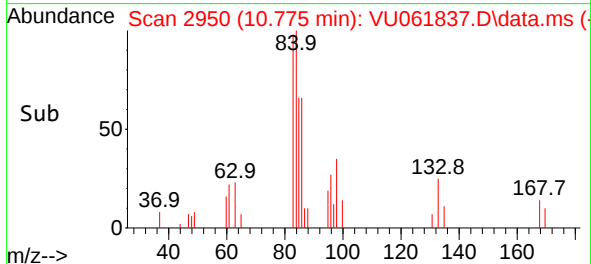
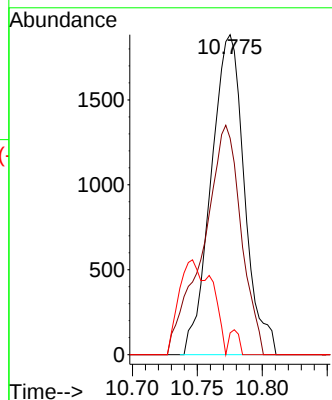
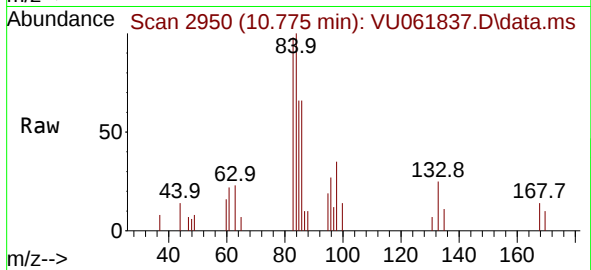




#57
1,1,2,2-Tetrachloroethane
Concen: 0.310 ug/L
RT: 10.775 min Scan# 2949
Delta R.T. 0.003 min
Lab File: VU061837.D
Acq: 19 Nov 2024 02:13

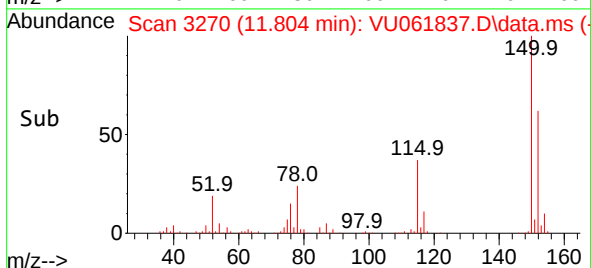
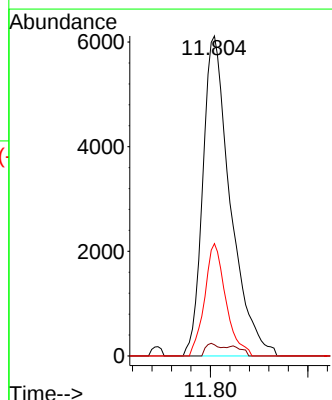
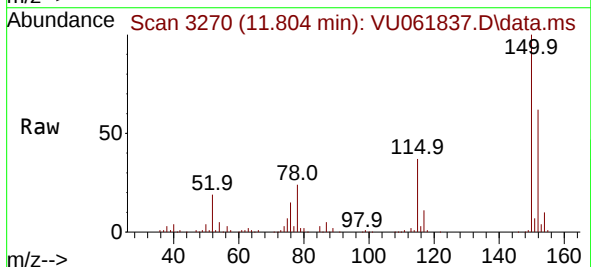
Instrument :
MSVOA_U
ClientSampleId :

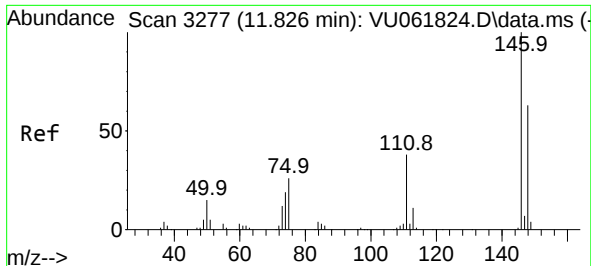
Tgt Ion: 83 Resp: 3353
Ion Ratio Lower Upper
83 100
85 67.6 41.9 77.9
131 6.8 7.8 11.6#



#61
1,2,3-Trichloropropane
Concen: 1.449 ug/L
RT: 11.804 min Scan# 3270
Delta R.T. 0.990 min
Lab File: VU061837.D
Acq: 19 Nov 2024 02:13

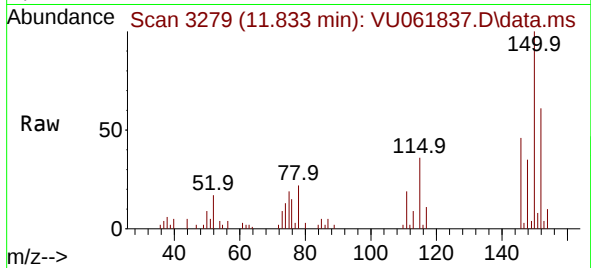
Tgt Ion: 75 Resp: 11990
Ion Ratio Lower Upper
75 100
110 2.4 31.3 46.9#
77 27.1 26.0 39.0



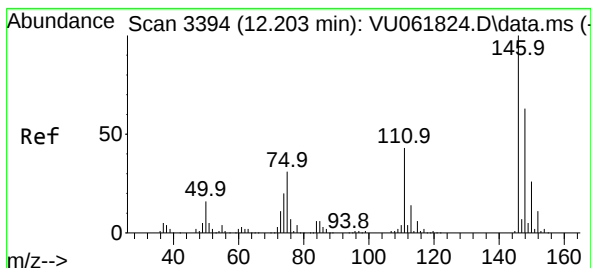
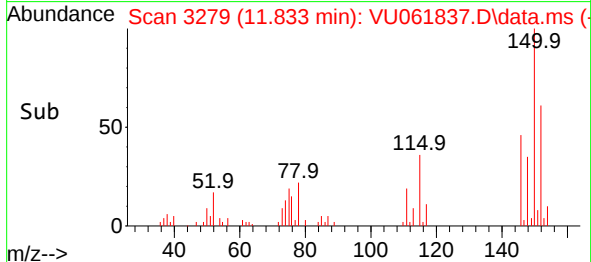
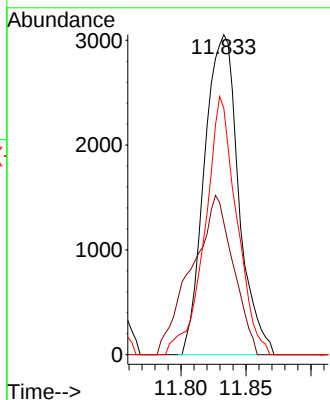


#65
1,4-Dichlorobenzene
Concen: 0.197 ug/L
RT: 11.833 min Scan# 31
Delta R.T. 0.007 min
Lab File: VU061837.D
Acq: 19 Nov 2024 02:13

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:146 Resp: 5594
Ion Ratio Lower Upper
146 100
111 41.2 28.8 53.4
148 77.0 44.7 83.1



#67
1,2-Dichlorobenzene
Concen: 1.989 ug/L
RT: 12.206 min Scan# 3395
Delta R.T. 0.003 min
Lab File: VU061837.D
Acq: 19 Nov 2024 02:13

Tgt Ion:146 Resp: 51651
Ion Ratio Lower Upper
146 100
111 42.2 35.2 52.8
148 67.0 52.6 79.0

