

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111824\
 Data File : VU061840.D
 Acq On : 19 Nov 2024 03:27
 Operator : MD/SY
 Sample : P4885-11
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 19 04:37:31 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	166081	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	159139	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	68791	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	34924	3.255	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	65.000%
7) Chloroethane-d5	1.907	69	33776	3.687	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	73.800%
11) 1,1-Dichloroethene-d2	2.560	65	16309	3.387	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.800%
20) 2-Butanone-d5	4.611	46	107589	47.238	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.480%
24) Chloroform-d	5.052	84	93246	4.372	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.400%
26) 1,2-Dichloroethane-d4	5.692	65	49209	4.808	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.200%
32) Benzene-d6	5.717	84	185648	4.217	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.400%
36) 1,2-Dichloropropane-d6	6.682	67	59271	4.565	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.200%
41) Toluene-d8	7.891	98	163135	3.975	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.600%
43) trans-1,3-Dichloroprop...	8.174	79	20794	4.348	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.000%
46) 2-Hexanone-d5	8.621	63	99965	52.891	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.780%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	48405	4.729	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.600%
66) 1,2-Dichlorobenzene-d4	12.187	152	56784	4.635	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.380	85	1603	0.130	ug/L	94
10) 1,1,2-Trichloro-1,2,2-...	2.573	101	7665	0.714	ug/L	98
16) Methylene chloride	3.036	84	19156	1.658	ug/L	94
18) trans-1,2-Dichloroethene	3.345	96	48305	4.393	ug/L	96
22) cis-1,2-Dichloroethene	4.656	96	38660	3.117	ug/L	98
27) 1,2-Dichloroethane	5.791	62	2720	0.205	ug/L #	93
29) 1,1,1-Trichloroethane	5.306	97	50434	2.785	ug/L	98
31) Carbon tetrachloride	5.309	117	6751	0.438	ug/L	95
34) Trichloroethene	6.534	95	233037	17.919	ug/L	99
35) Methylcyclohexane	6.679	83	13590	0.693	ug/L #	20
37) 1,2-Dichloropropane	6.682	63	6246	0.511	ug/L #	89
42) Toluene	7.965	91	45136	0.870	ug/L	98
45) 1,1,2-Trichloroethane	8.544	97	1424	0.160	ug/L #	1
47) Tetrachloroethene	8.544	164	182777	18.704	ug/L	97
49) Dibromochloromethane	8.544	129	178559	19.117	ug/L #	10
51) Chlorobenzene	9.438	112	18169	0.544	ug/L	96
52) Ethylbenzene	9.566	91	16772	0.304	ug/L	97
53) m,p-Xylene	9.685	106	12188	0.577	ug/L	100
54) o-Xylene	10.093	106	2292	0.112	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

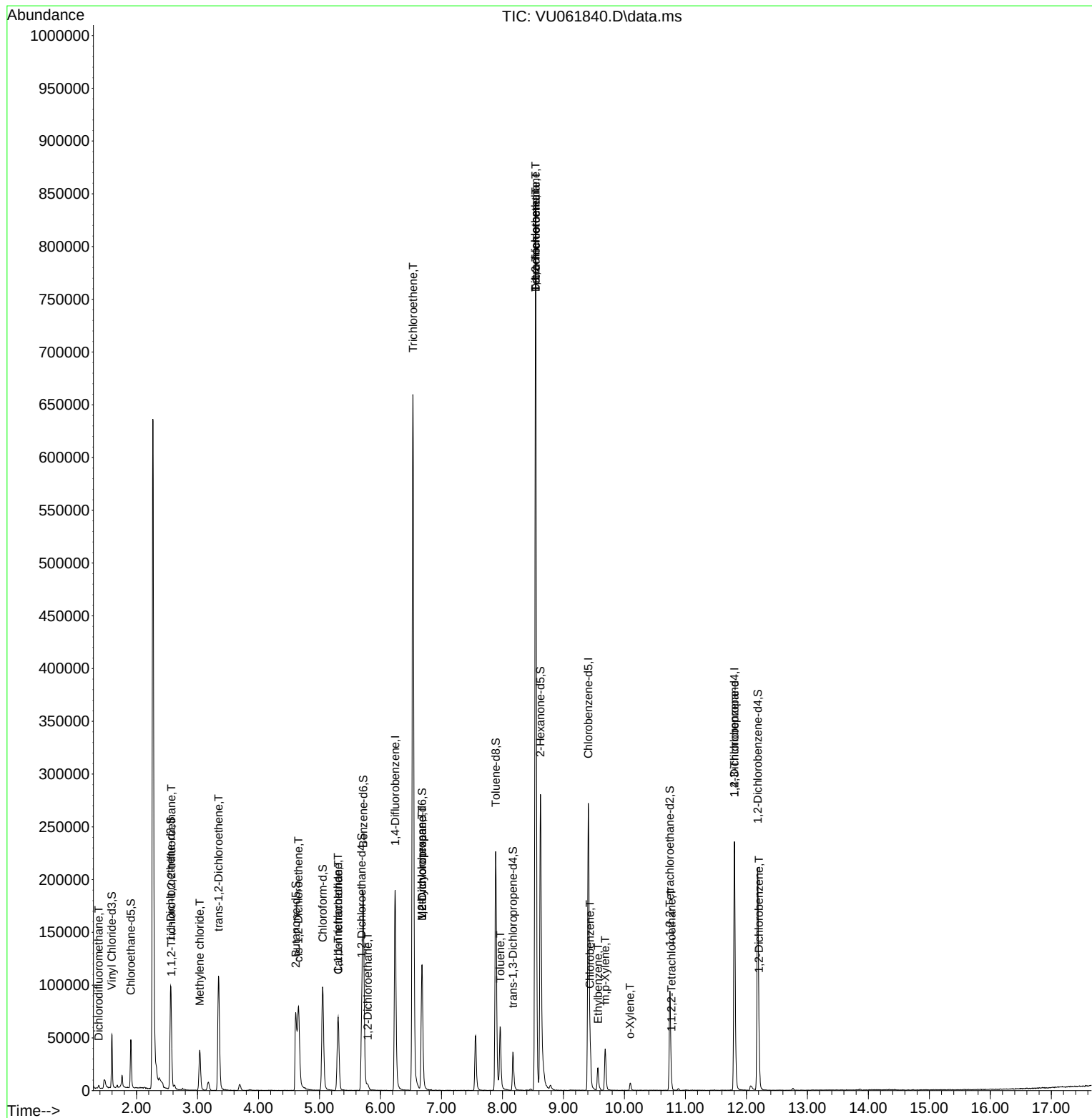
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) 1,1,2,2-Tetrachloroethane	10.772	83	1934	0.178	ug/L #	96
61) 1,2,3-Trichloropropane	11.804	75	8683	1.340	ug/L #	63
67) 1,2-Dichlorobenzene	12.206	146	12679	0.623	ug/L	93

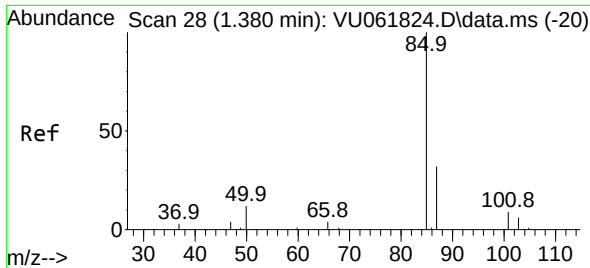
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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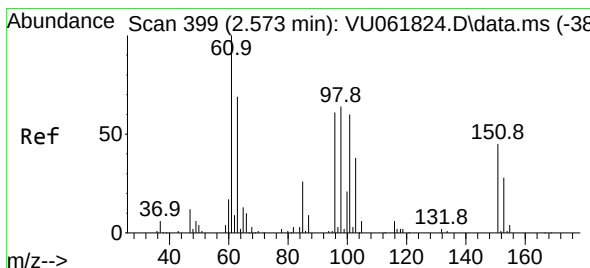
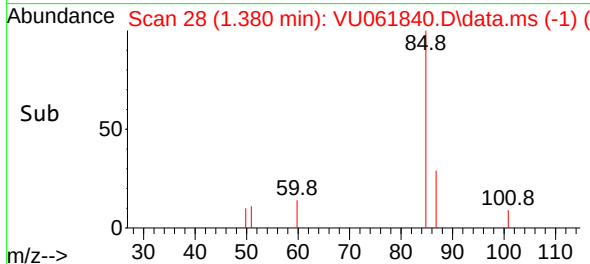
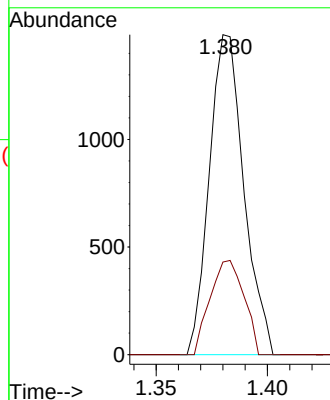
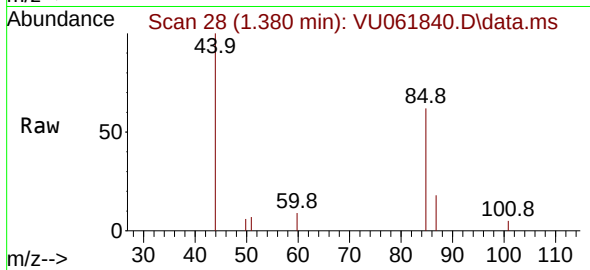




#2
 Dichlorodifluoromethane
 Concen: 0.130 ug/L
 RT: 1.380 min Scan# 28
 Delta R.T. 0.000 min
 Lab File: VU061840.D
 Acq: 19 Nov 2024 03:27

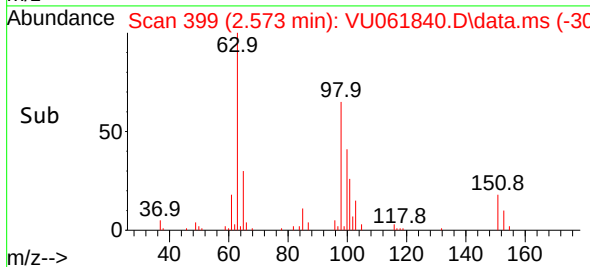
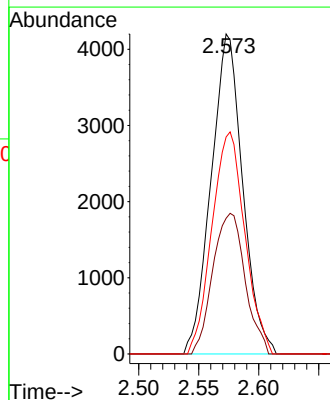
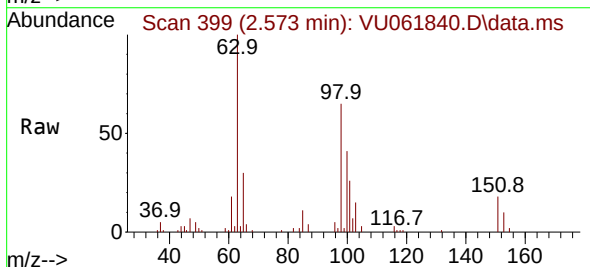
Instrument :
 MSVOA_U
 ClientSampleId :

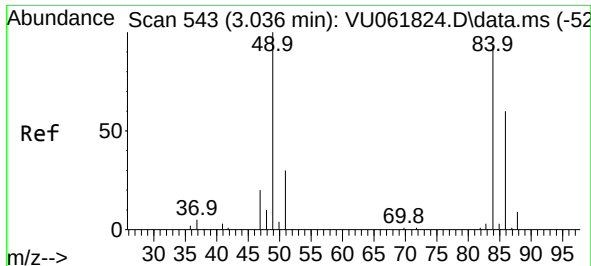
Tgt Ion: 85 Resp: 1603
 Ion Ratio Lower Upper
 85 100
 87 28.9 26.0 39.0



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.714 ug/L
 RT: 2.573 min Scan# 399
 Delta R.T. 0.000 min
 Lab File: VU061840.D
 Acq: 19 Nov 2024 03:27

Tgt Ion: 101 Resp: 7665
 Ion Ratio Lower Upper
 101 100
 85 45.1 35.1 52.7
 151 72.5 56.9 85.3

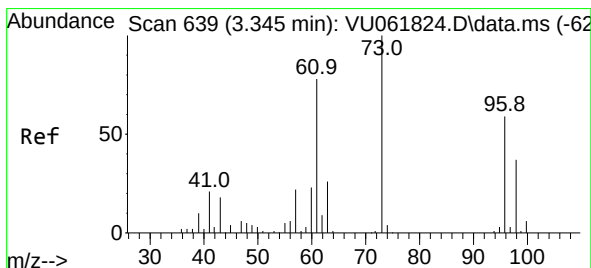
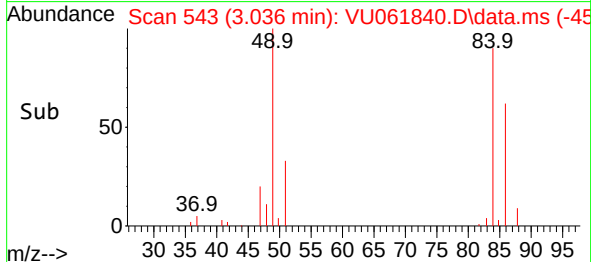
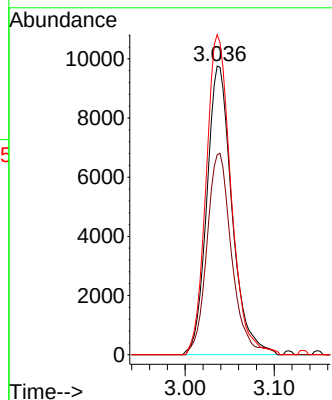
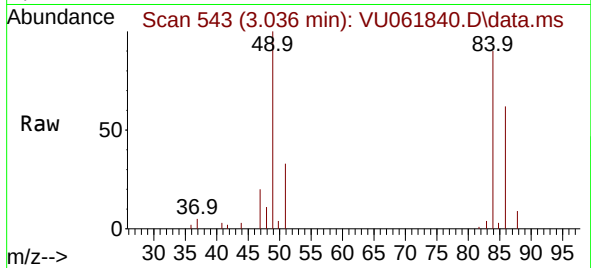




#16
Methylene chloride
Concen: 1.658 ug/L
RT: 3.036 min Scan# 543
Delta R.T. 0.000 min
Lab File: VU061840.D
Acq: 19 Nov 2024 03:27

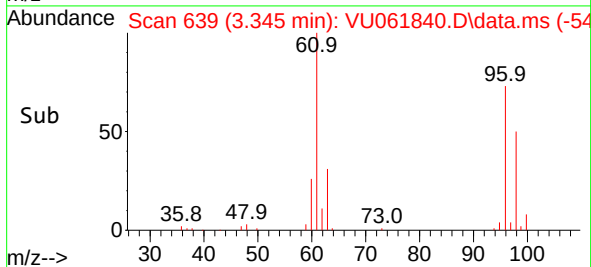
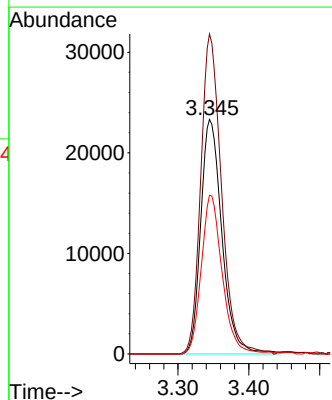
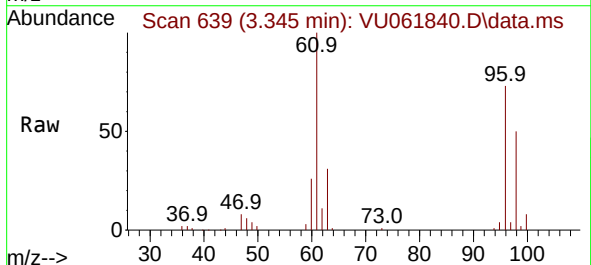
Instrument :
MSVOA_U
ClientSampleId :

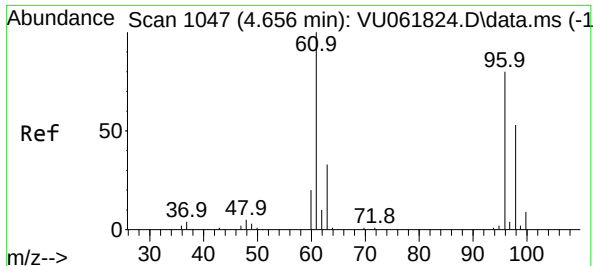
Tgt Ion: 84 Resp: 19156
Ion Ratio Lower Upper
84 100
86 69.2 45.1 83.7
49 115.5 76.3 141.7



#18
trans-1,2-Dichloroethene
Concen: 4.393 ug/L
RT: 3.345 min Scan# 639
Delta R.T. 0.000 min
Lab File: VU061840.D
Acq: 19 Nov 2024 03:27

Tgt Ion: 96 Resp: 48305
Ion Ratio Lower Upper
96 100
61 136.5 94.1 174.8
98 67.7 43.2 80.2





#22

cis-1,2-Dichloroethene

Concen: 3.117 ug/L

RT: 4.656 min Scan# 1047

Delta R.T. 0.000 min

Lab File: VU061840.D

Acq: 19 Nov 2024 03:27

Instrument :

MSVOA_U

ClientSampleId :

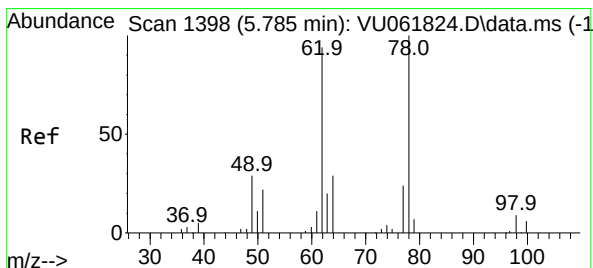
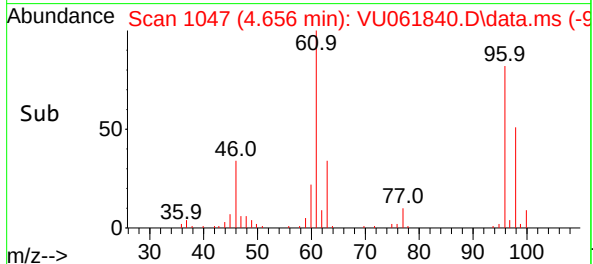
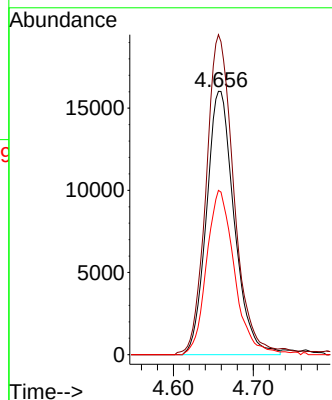
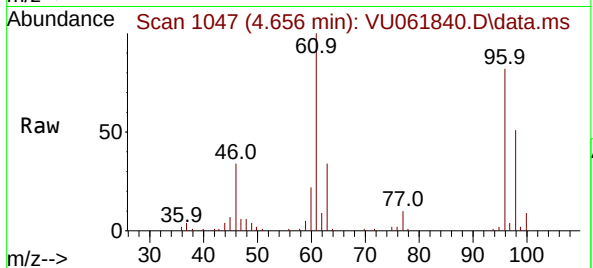
Tgt Ion: 96 Resp: 38660

Ion Ratio Lower Upper

96 100

61 121.5 85.6 159.0

98 62.4 45.6 84.8



#27

1,2-Dichloroethane

Concen: 0.205 ug/L

RT: 5.791 min Scan# 1400

Delta R.T. 0.006 min

Lab File: VU061840.D

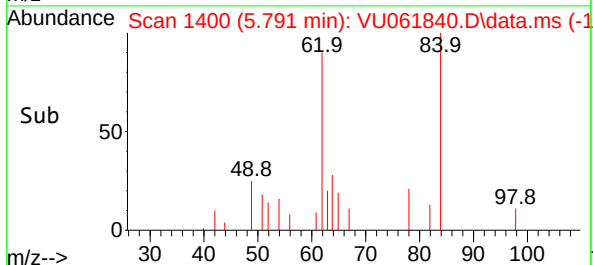
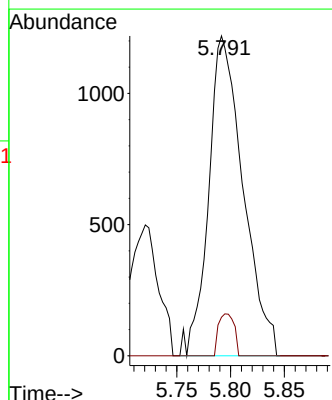
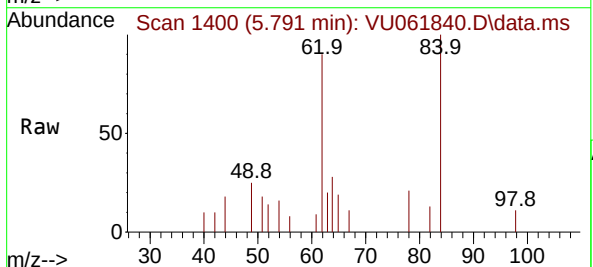
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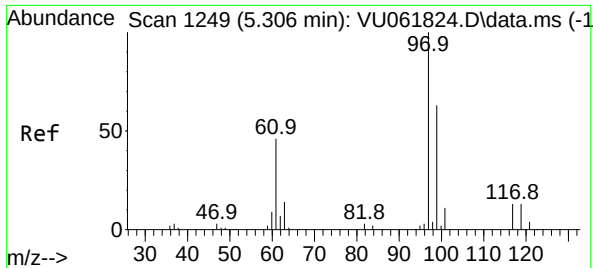
Tgt Ion: 62 Resp: 2720

Ion Ratio Lower Upper

62 100

98 12.1 7.7 11.5#

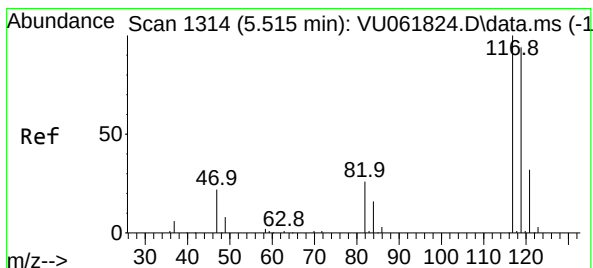
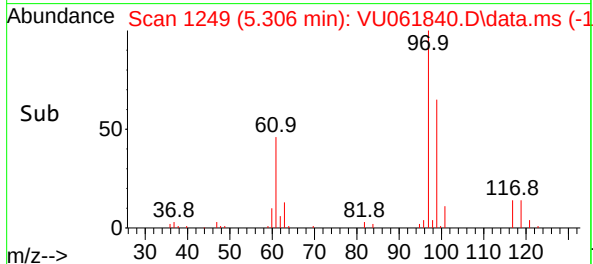
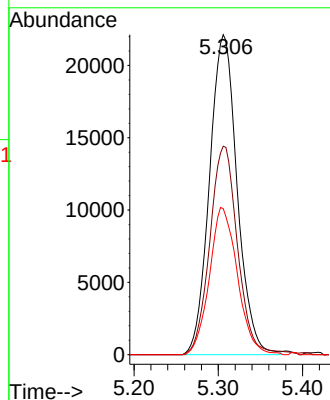
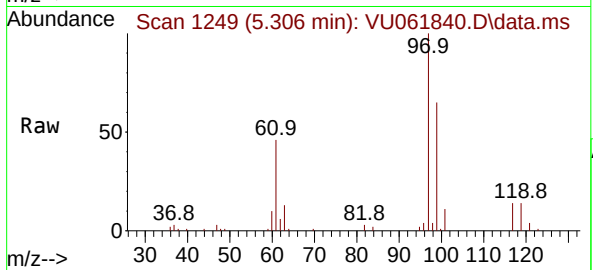




#29
1,1,1-Trichloroethane
Concen: 2.785 ug/L
RT: 5.306 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU061840.D
Acq: 19 Nov 2024 03:27

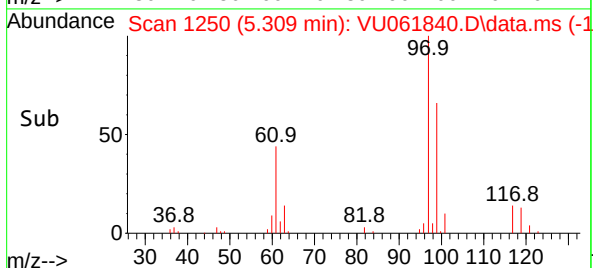
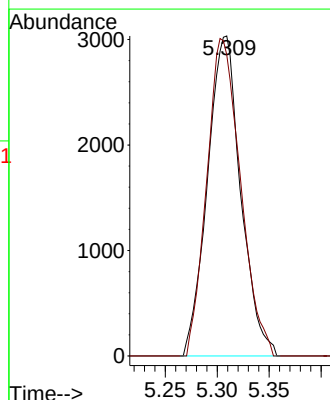
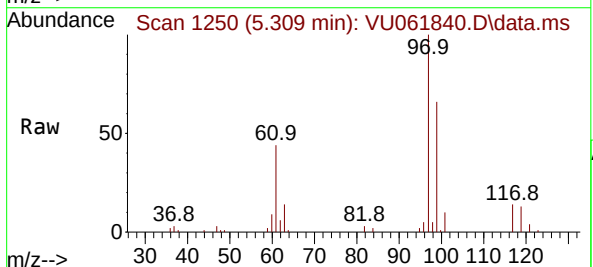
Instrument :
MSVOA_U
ClientSampleId :

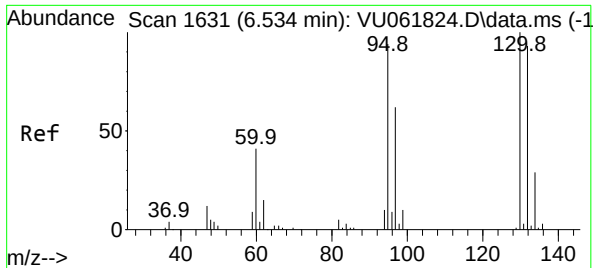
Tgt Ion: 97	Resp: 50434
Ion Ratio	Lower Upper
97	100
99	65.6 51.7 77.5
61	46.6 35.4 53.0



#31
Carbon tetrachloride
Concen: 0.438 ug/L
RT: 5.309 min Scan# 1250
Delta R.T. -0.206 min
Lab File: VU061840.D
Acq: 19 Nov 2024 03:27

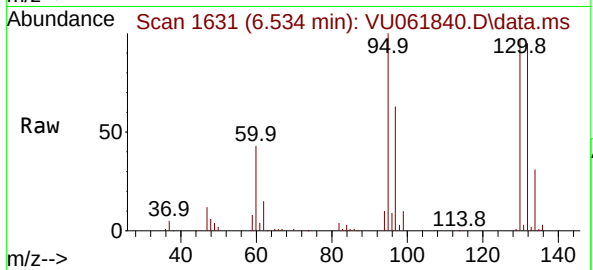
Tgt Ion: 117	Resp: 6751
Ion Ratio	Lower Upper
117	100
119	100.6 76.6 114.8





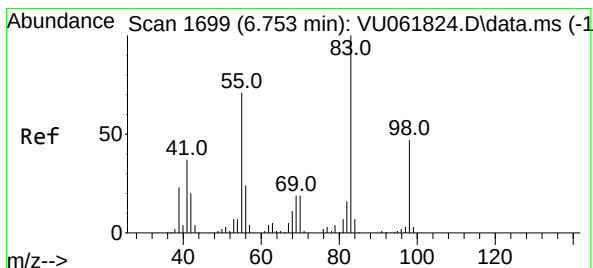
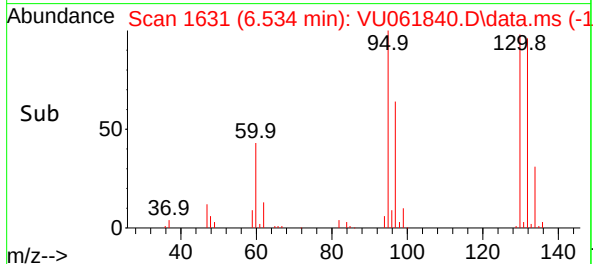
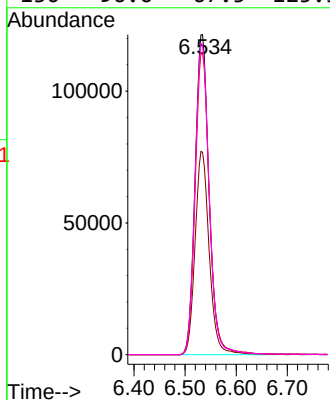
#34
Trichloroethene
Concen: 17.919 ug/L
RT: 6.534 min Scan# 1631
Delta R.T. 0.000 min
Lab File: VU061840.D
Acq: 19 Nov 2024 03:27

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 95 Resp: 233037

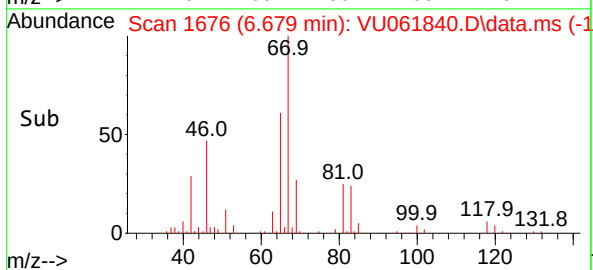
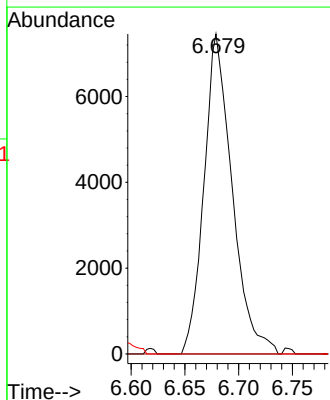
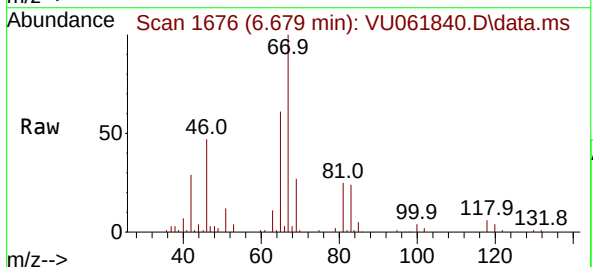
Ion	Ratio	Lower	Upper
95	100		
97	63.3	43.5	80.9
132	94.6	65.2	121.0
130	96.6	67.5	125.3

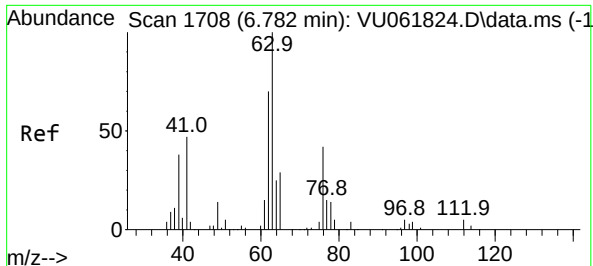


#35
Methylcyclohexane
Concen: 0.693 ug/L
RT: 6.679 min Scan# 1676
Delta R.T. -0.074 min
Lab File: VU061840.D
Acq: 19 Nov 2024 03:27

Tgt Ion: 83 Resp: 13590

Ion	Ratio	Lower	Upper
83	100		
55	0.0	56.4	84.6#
98	0.0	37.7	56.5#

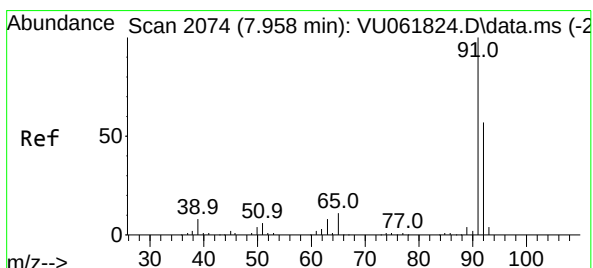
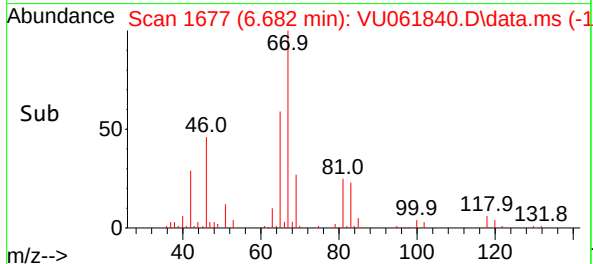
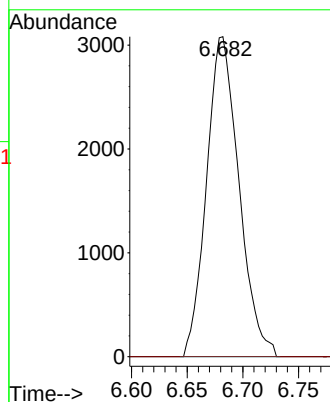
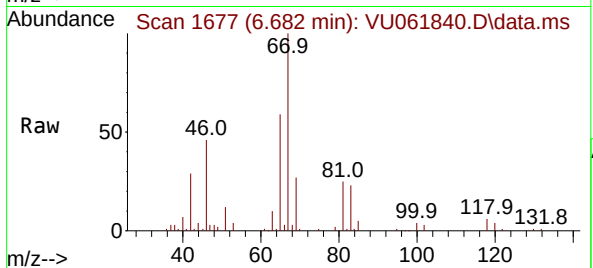




#37
1,2-Dichloropropane
Concen: 0.511 ug/L
RT: 6.682 min Scan# 1
Delta R.T. -0.100 min
Lab File: VU061840.D
Acq: 19 Nov 2024 03:27

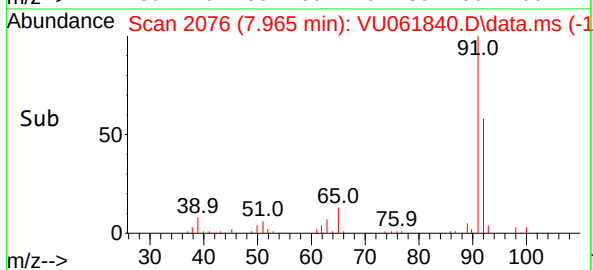
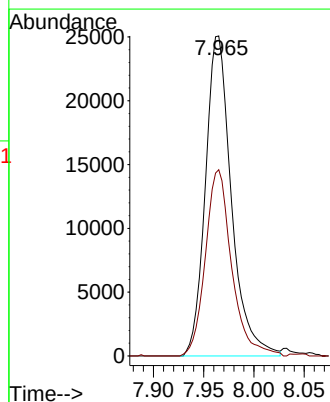
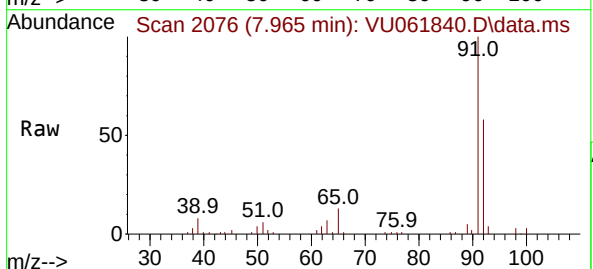
Instrument :
MSVOA_U
ClientSampleId :

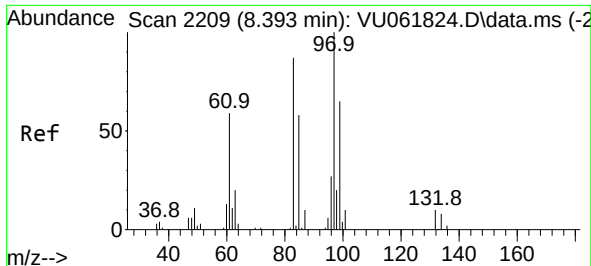
Tgt Ion: 63 Resp: 6246
Ion Ratio Lower Upper
63 100
112 0.0 3.0 4.4#



#42
Toluene
Concen: 0.870 ug/L
RT: 7.965 min Scan# 2076
Delta R.T. 0.006 min
Lab File: VU061840.D
Acq: 19 Nov 2024 03:27

Tgt Ion: 91 Resp: 45136
Ion Ratio Lower Upper
91 100
92 58.2 39.7 73.7





#45

1,1,2-Trichloroethane

Concen: 0.160 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. 0.151 min

Lab File: VU061840.D

Acq: 19 Nov 2024 03:27

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 97 Resp: 1424

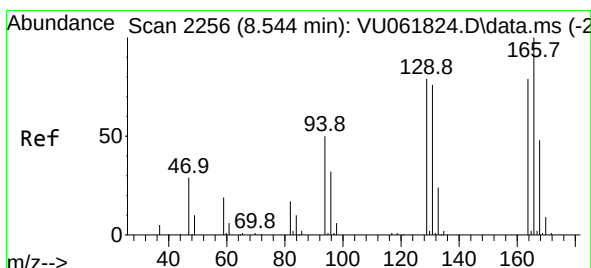
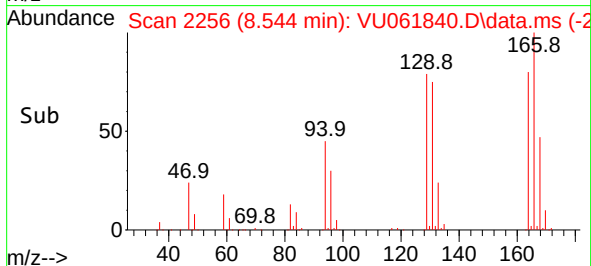
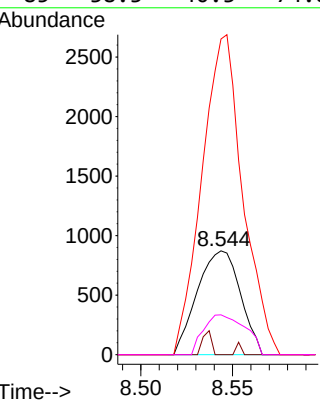
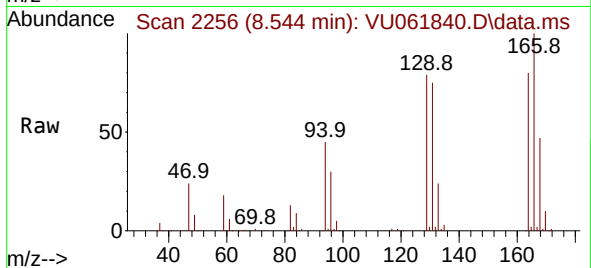
Ion Ratio Lower Upper

97 100

99 0.0 43.8 81.3#

83 304.1 63.2 117.4#

85 38.3 40.3 74.8#



#47

Tetrachloroethene

Concen: 18.704 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. 0.000 min

Lab File: VU061840.D

Acq: 19 Nov 2024 03:27

Tgt Ion:164 Resp: 182777

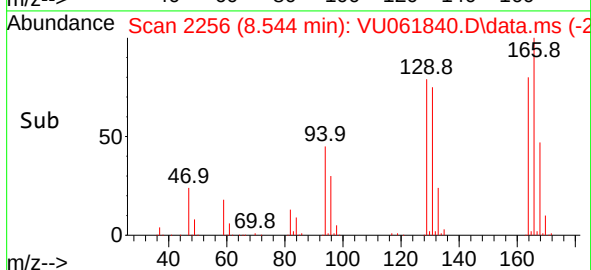
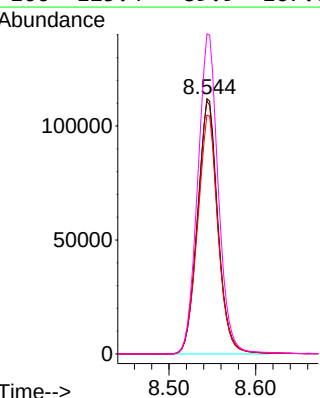
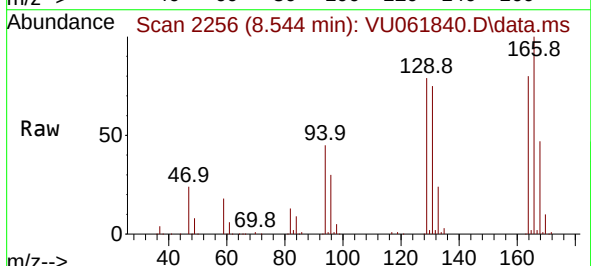
Ion Ratio Lower Upper

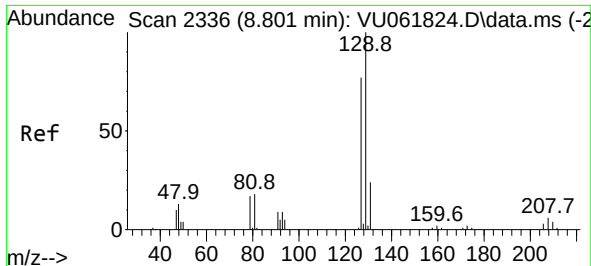
164 100

129 99.2 71.7 133.3

131 93.6 68.2 126.6

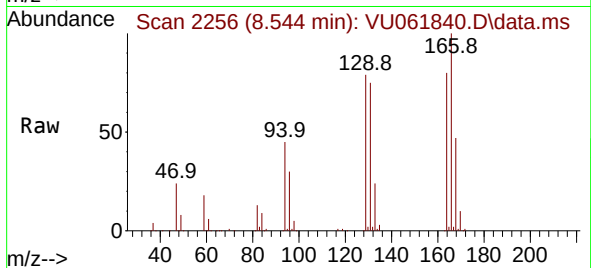
166 125.4 89.9 167.0



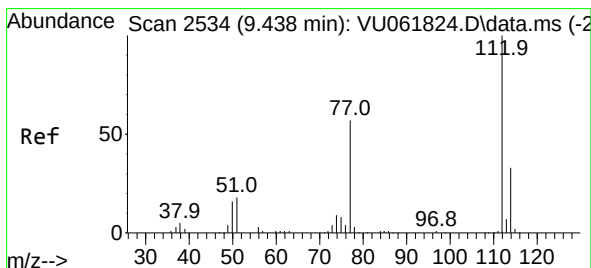
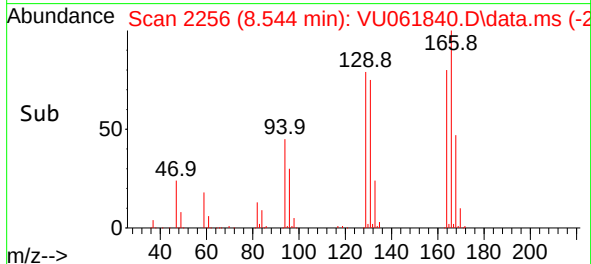
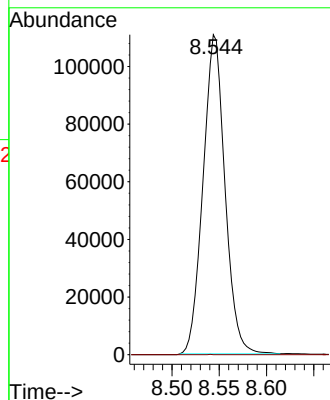


#49
Dibromochloromethane
Concen: 19.117 ug/L
RT: 8.544 min Scan# 21
Delta R.T. -0.257 min
Lab File: VU061840.D
Acq: 19 Nov 2024 03:27

Instrument :
MSVOA_U
ClientSampleId :

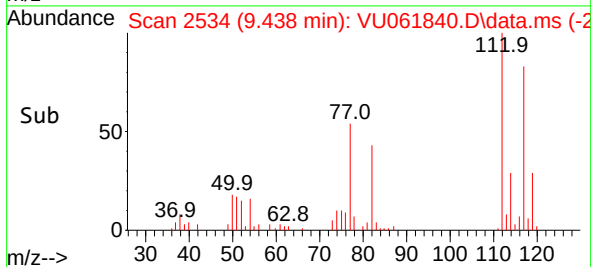
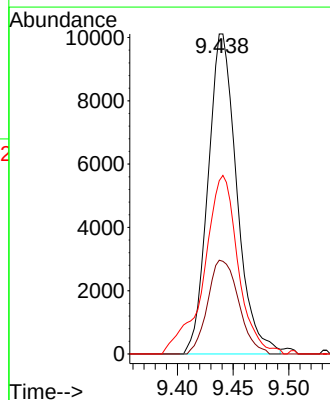
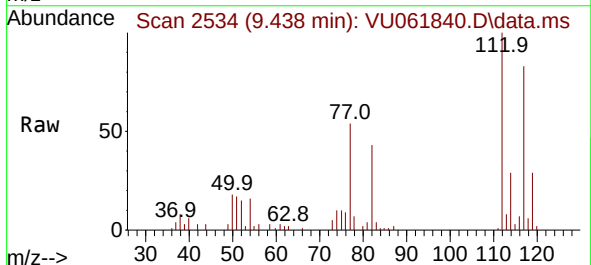


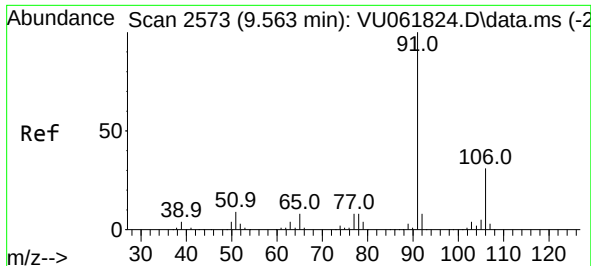
Tgt Ion:129 Resp: 178559
Ion Ratio Lower Upper
129 100
127 0.0 55.1 102.3#



#51
Chlorobenzene
Concen: 0.544 ug/L
RT: 9.438 min Scan# 2534
Delta R.T. 0.000 min
Lab File: VU061840.D
Acq: 19 Nov 2024 03:27

Tgt Ion:112 Resp: 18169
Ion Ratio Lower Upper
112 100
114 29.3 22.5 41.9
77 54.2 45.3 67.9





#52

Ethylbenzene

Concen: 0.304 ug/L

RT: 9.566 min Scan# 2

Delta R.T. 0.003 min

Lab File: VU061840.D

Acq: 19 Nov 2024 03:27

Instrument :

MSVOA_U

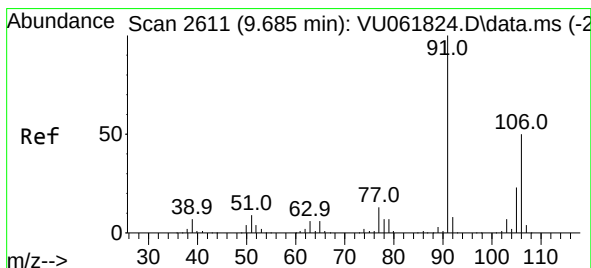
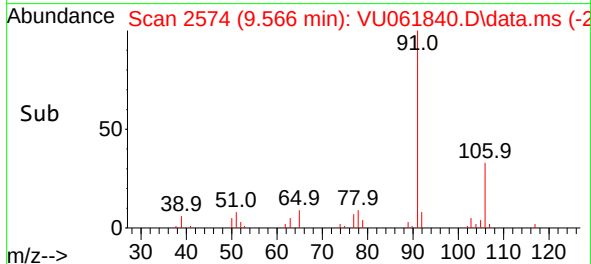
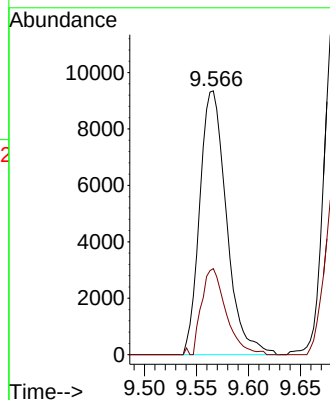
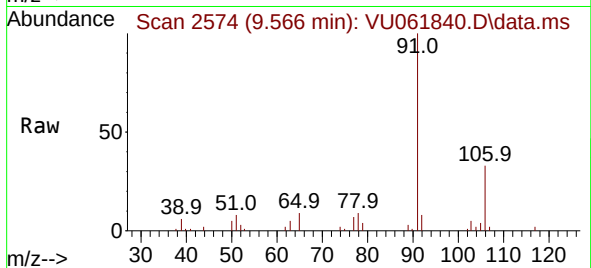
ClientSampleId :

Tgt Ion: 91 Resp: 16772

Ion Ratio Lower Upper

91 100

106 32.6 21.7 40.3



#53

m,p-Xylene

Concen: 0.577 ug/L

RT: 9.685 min Scan# 2611

Delta R.T. 0.000 min

Lab File: VU061840.D

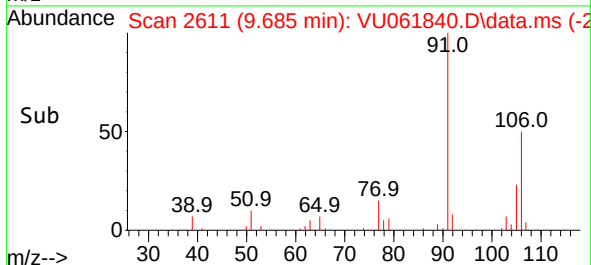
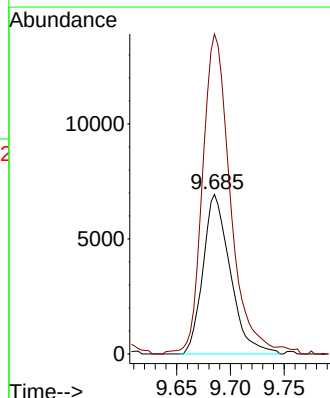
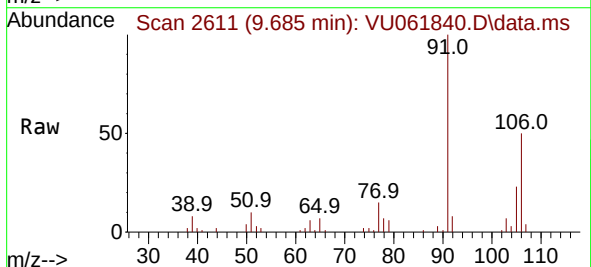
Acq: 19 Nov 2024 03:27

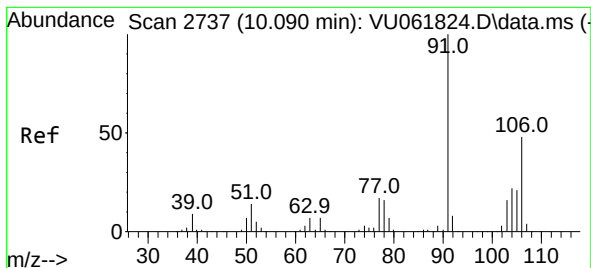
Tgt Ion:106 Resp: 12188

Ion Ratio Lower Upper

106 100

91 200.4 140.4 260.8





#54

o-Xylene

Concen: 0.112 ug/L

RT: 10.093 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU061840.D

Acq: 19 Nov 2024 03:27

Instrument :

MSVOA_U

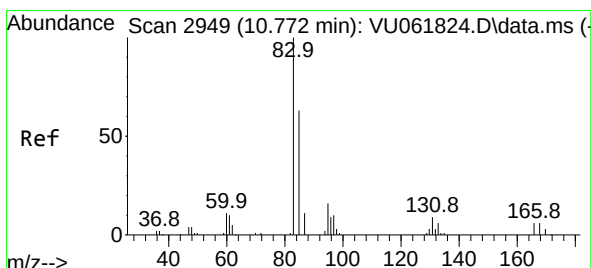
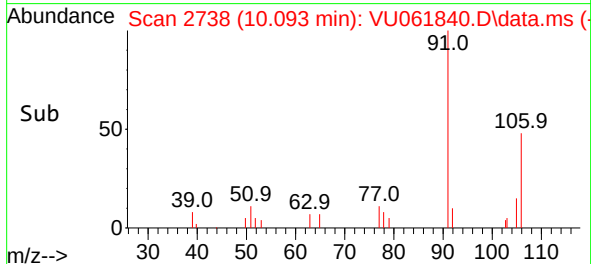
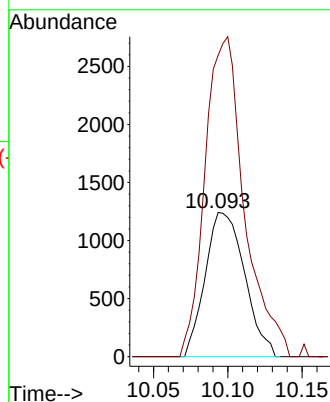
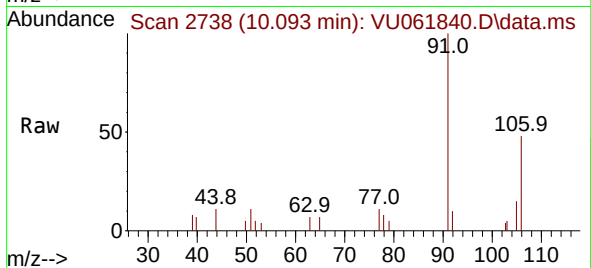
ClientSampleId :

Tgt Ion:106 Resp: 2292

Ion Ratio Lower Upper

106 100

91 208.9 151.3 280.9



#57

1,1,2,2-Tetrachloroethane

Concen: 0.178 ug/L

RT: 10.772 min Scan# 2949

Delta R.T. 0.000 min

Lab File: VU061840.D

Acq: 19 Nov 2024 03:27

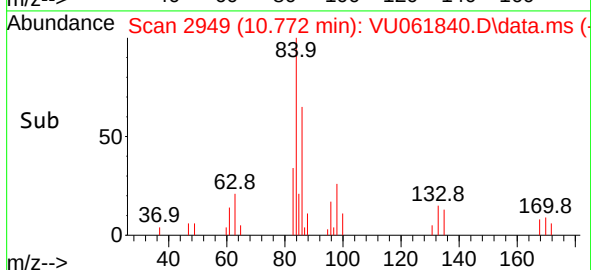
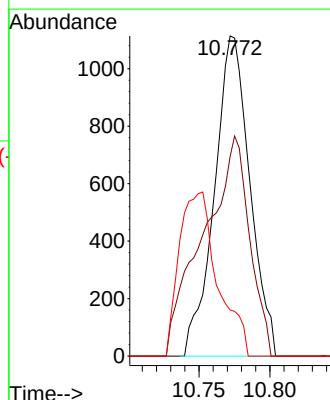
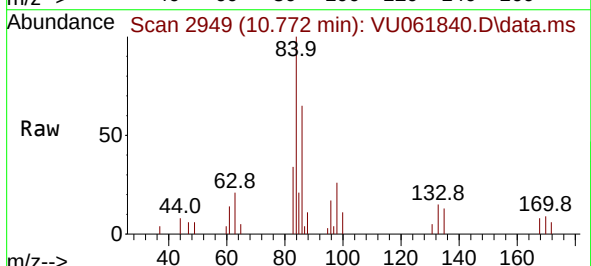
Tgt Ion: 83 Resp: 1934

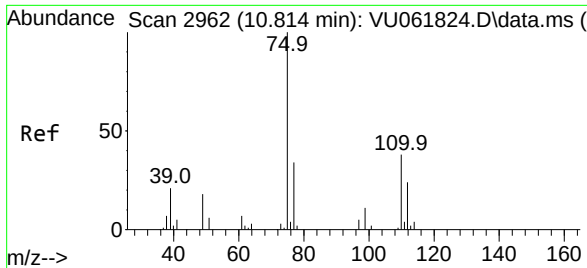
Ion Ratio Lower Upper

83 100

85 62.3 41.9 77.9

131 14.4 7.8 11.6#

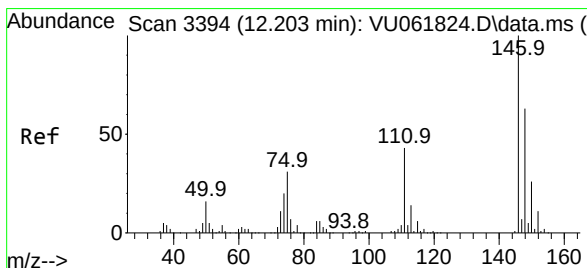
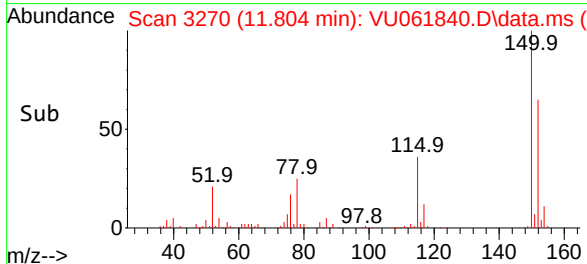
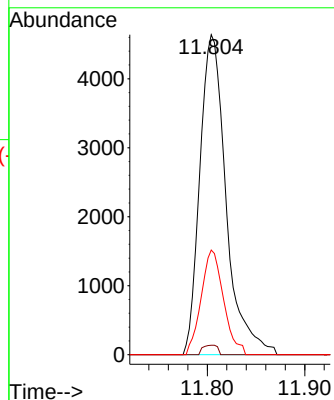
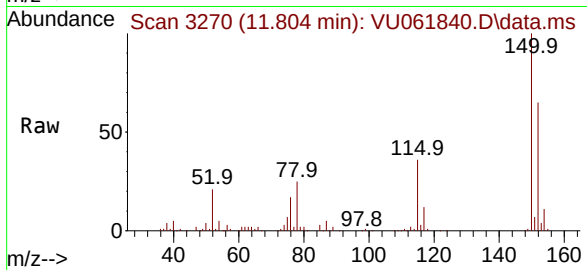




#61
1,2,3-Trichloropropane
Concen: 1.340 ug/L
RT: 11.804 min Scan# 31
Delta R.T. 0.990 min
Lab File: VU061840.D
Acq: 19 Nov 2024 03:27

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 75 Resp: 8683
Ion Ratio Lower Upper
75 100
110 1.7 31.3 46.9#
77 27.8 26.0 39.0



#67
1,2-Dichlorobenzene
Concen: 0.623 ug/L
RT: 12.206 min Scan# 3395
Delta R.T. 0.003 min
Lab File: VU061840.D
Acq: 19 Nov 2024 03:27

Tgt Ion:146 Resp: 12679
Ion Ratio Lower Upper
146 100
111 40.5 35.2 52.8
148 58.9 52.6 79.0

