

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071824\
 Data File : VU060027.D
 Acq On : 18 Jul 2024 19:11
 Operator : MD/SY
 Sample : P3217-03DL 100X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 19 01:37:15 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR071824WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Jul 19 01:30:22 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	141702	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	144005	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	78077	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	46989	4.766	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.400%
7) Chloroethane-d5	1.911	69	43286	4.726	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.600%
11) 1,1-Dichloroethene-d2	2.560	65	18168	4.720	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	94.400%
20) 2-Butanone-d5	4.627	46	138503	60.088	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	120.180%
24) Chloroform-d	5.055	84	97313	4.696	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.000%
26) 1,2-Dichloroethane-d4	5.695	65	48871	5.065	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.400%
32) Benzene-d6	5.721	84	197412	5.117	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.400%
36) 1,2-Dichloropropane-d6	6.685	67	63682	5.180	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.600%
41) Toluene-d8	7.894	98	169586	4.865	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.200%
43) trans-1,3-Dichloroprop...	8.177	79	20420	4.879	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.600%
46) 2-Hexanone-d5	8.627	63	109317	58.864	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	117.720%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	57393	5.245	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.000%
66) 1,2-Dichlorobenzene-d4	12.187	152	76262	5.411	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.200%
Target Compounds						
						Qvalue
5) Vinyl chloride	1.599	62	16898	1.165	ug/L	93
13) Acetone	2.653	43	7913	5.190	ug/L	97
16) Methylene chloride	3.042	84	3570	0.269	ug/L	86
18) trans-1,2-Dichloroethene	3.351	96	4920	0.437	ug/L	96
19) 1,1-Dichloroethane	3.862	63	8755	0.410	ug/L	98
22) cis-1,2-Dichloroethene	4.656	96	732144	58.100	ug/L	99
33) Benzene	5.772	78	10525	0.221	ug/L	100
34) Trichloroethene	6.537	95	20391	1.616	ug/L	93
37) 1,2-Dichloropropane	6.685	63	6397	0.498	ug/L #	88
40) 4-Methyl-2-pentanone	7.795	43	4855	0.854	ug/L #	85
42) Toluene	7.965	91	38791	0.766	ug/L	92
47) Tetrachloroethene	8.547	164	32695	3.134	ug/L	98
49) Dibromochloromethane	8.547	129	29868	2.749	ug/L #	10
51) Chlorobenzene	9.444	112	10140	0.307	ug/L	96
52) Ethylbenzene	9.566	91	72907	1.444	ug/L	98
53) m,p-Xylene	9.688	106	86148	4.417	ug/L	97
54) o-Xylene	10.093	106	103203	5.533	ug/L	93
55) Styrene	10.093	104	7289	0.230	ug/L #	1
60) Isopropylbenzene	11.286	105	133398	2.612	ug/L	93

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Jul 19 01:30:22 2024
Response via : Initial Calibration

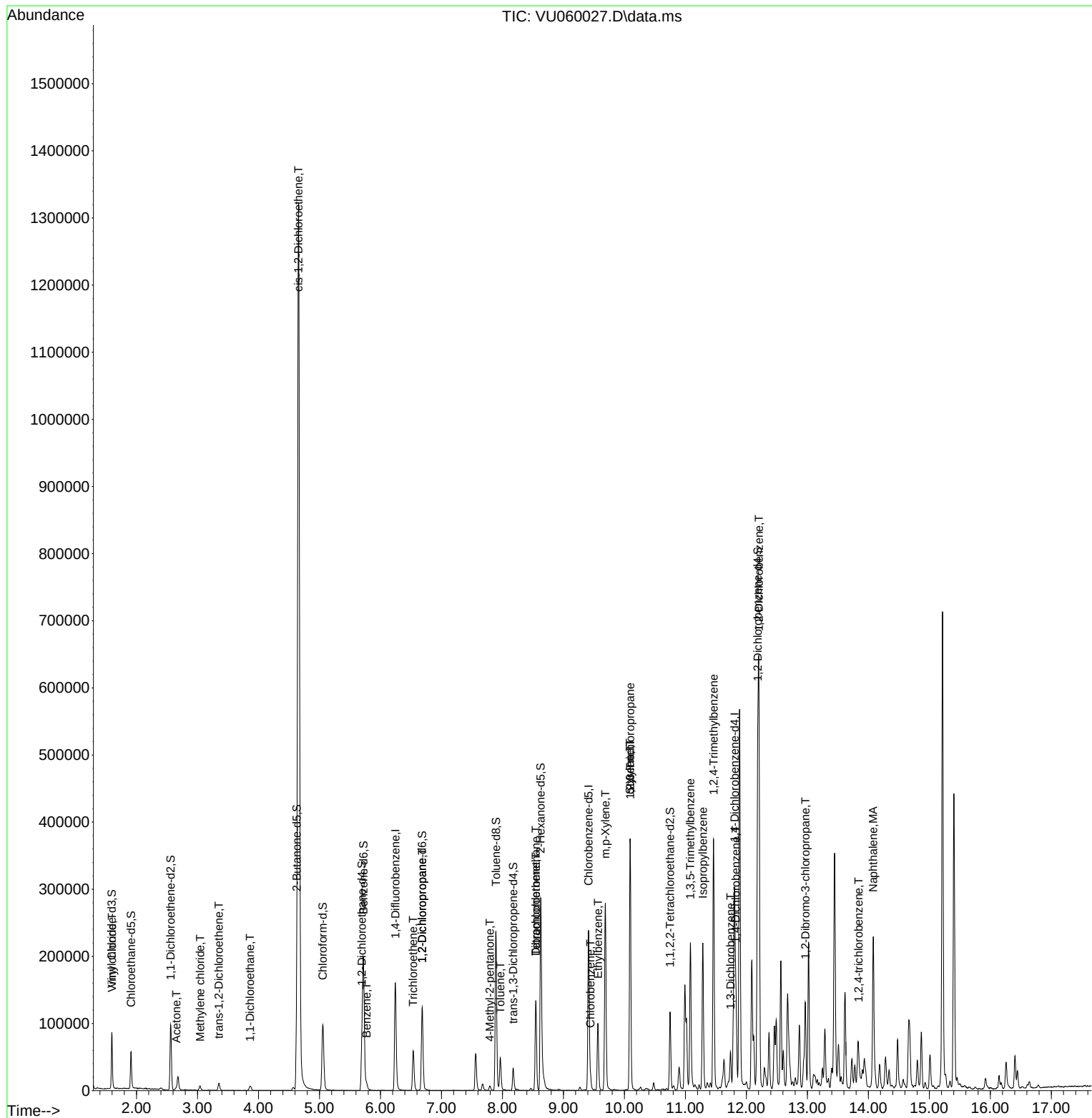
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) 1,2,3-Trichloropropane	10.097	75	2521	0.306	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.081	105	118097	3.027	ug/L	100
63) 1,2,4-Trimethylbenzene	11.463	105	206441	5.475	ug/L	98
64) 1,3-Dichlorobenzene	11.743	146	9187	0.334	ug/L	95
65) 1,4-Dichlorobenzene	11.830	146	53096	1.898	ug/L	98
67) 1,2-Dichlorobenzene	12.206	146	228634	8.692	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.968	75	607	0.378	ug/L #	1
70) 1,2,4-trichlorobenzene	13.839	180	3788	0.240	ug/L #	69
71) Naphthalene	14.080	128	190738	8.529	ug/L	98

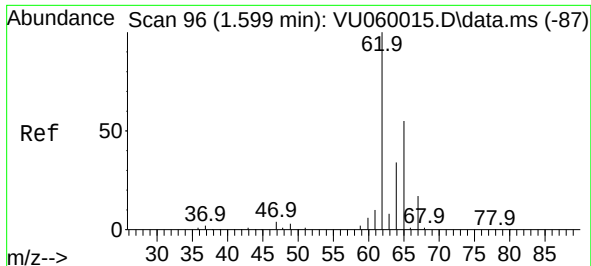
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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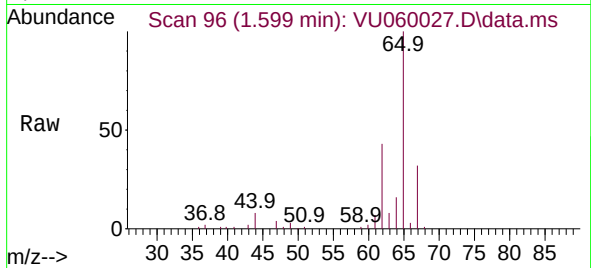
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR071824WMA.M
Quant Title : TRACE VOA SFAM1.0
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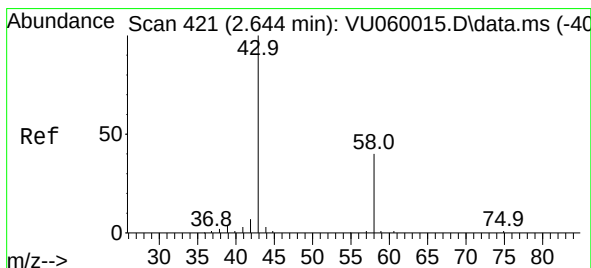
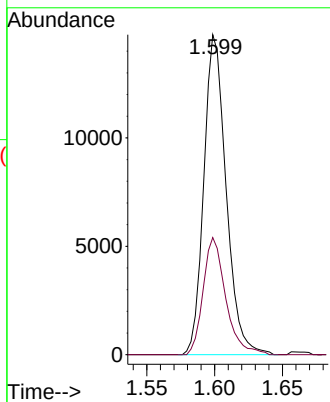
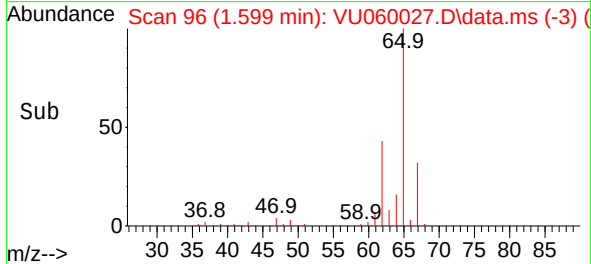


#5
 Vinyl chloride
 Concen: 1.165 ug/L
 RT: 1.599 min Scan# 90
 Delta R.T. -0.000 min
 Lab File: VU060027.D
 Acq: 18 Jul 2024 19:11

Instrument :
 MSVOA_U
 ClientSampleId :

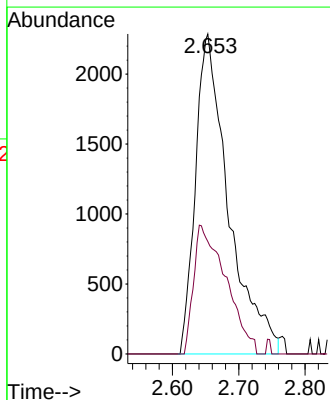
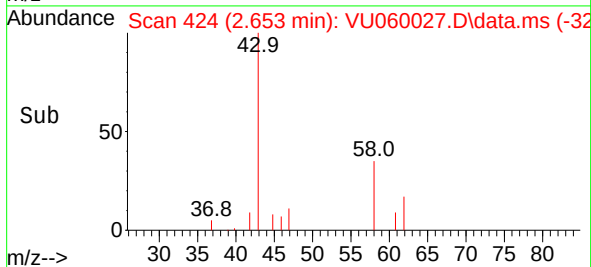
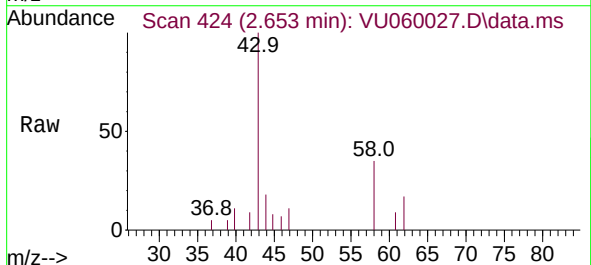


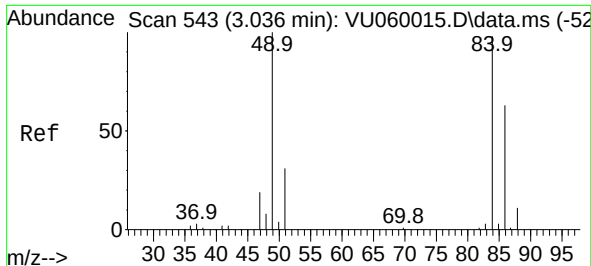
Tgt Ion: 62 Resp: 16898
 Ion Ratio Lower Upper
 62 100
 64 36.6 22.8 42.4



#13
 Acetone
 Concen: 5.190 ug/L
 RT: 2.653 min Scan# 424
 Delta R.T. 0.009 min
 Lab File: VU060027.D
 Acq: 18 Jul 2024 19:11

Tgt Ion: 43 Resp: 7913
 Ion Ratio Lower Upper
 43 100
 58 39.2 0.0 82.2





#16

Methylene chloride

Concen: 0.269 ug/L

RT: 3.042 min Scan# 543

Delta R.T. 0.006 min

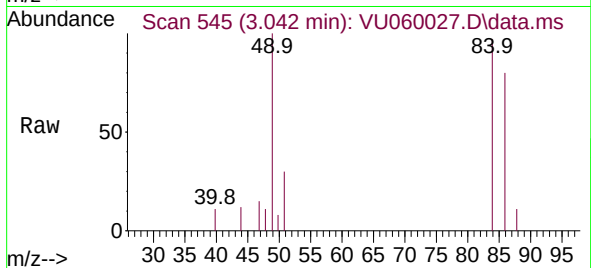
Lab File: VU060027.D

Acq: 18 Jul 2024 19:11

Instrument :

MSVOA_U

ClientSampleId :



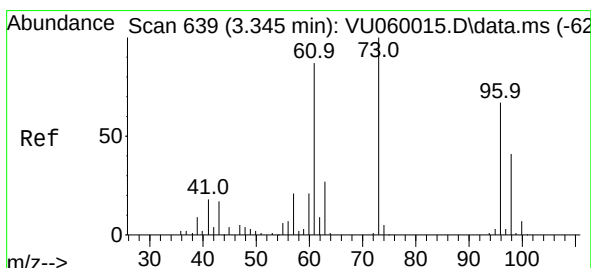
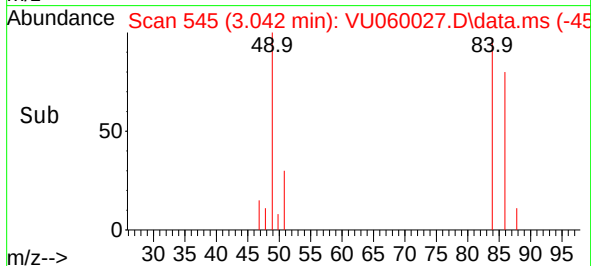
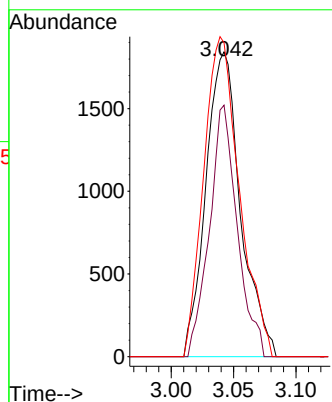
Tgt Ion: 84 Resp: 3570

Ion Ratio Lower Upper

84 100

86 82.5 44.4 82.5

49 111.3 72.0 133.6



#18

trans-1,2-Dichloroethene

Concen: 0.437 ug/L

RT: 3.351 min Scan# 641

Delta R.T. 0.006 min

Lab File: VU060027.D

Acq: 18 Jul 2024 19:11

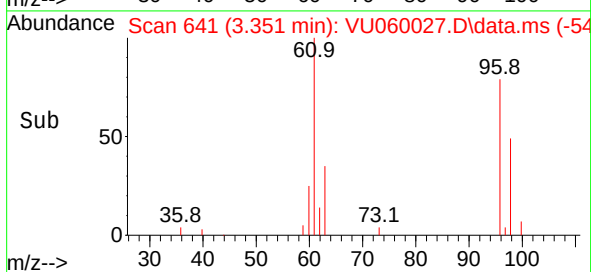
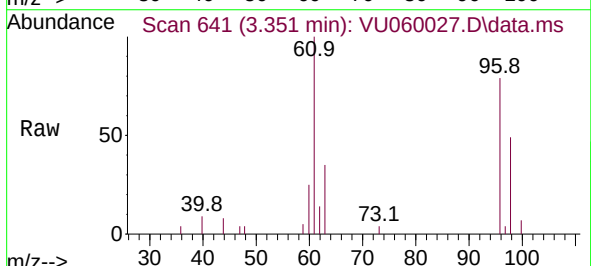
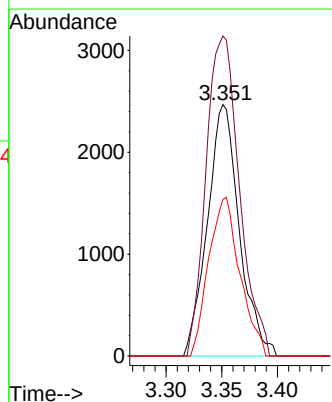
Tgt Ion: 96 Resp: 4920

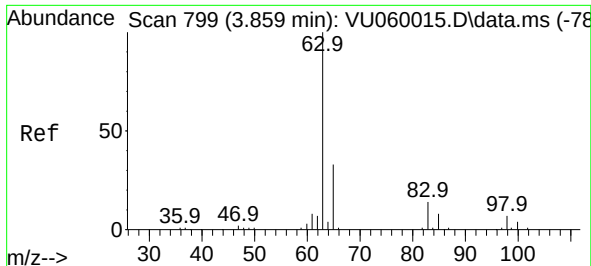
Ion Ratio Lower Upper

96 100

61 127.3 91.6 170.0

98 62.3 47.7 88.5

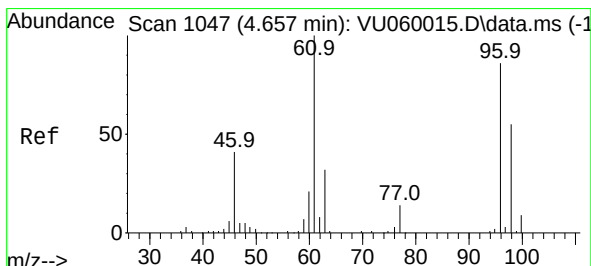
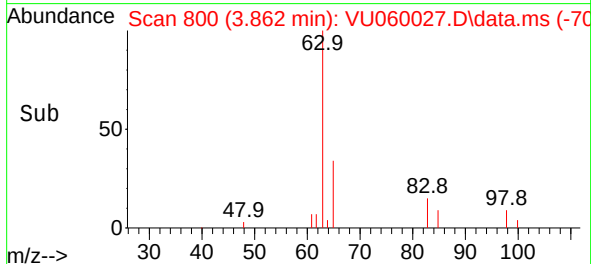
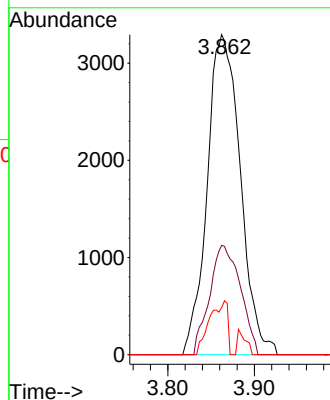
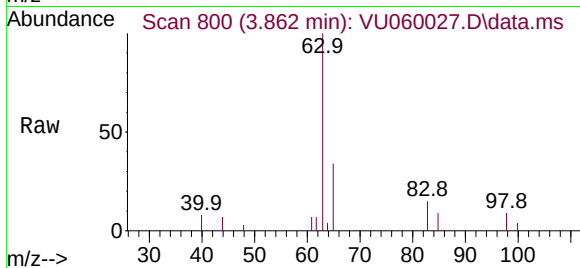




#19
1,1-Dichloroethane
Concen: 0.410 ug/L
RT: 3.862 min Scan# 80
Delta R.T. 0.003 min
Lab File: VU060027.D
Acq: 18 Jul 2024 19:11

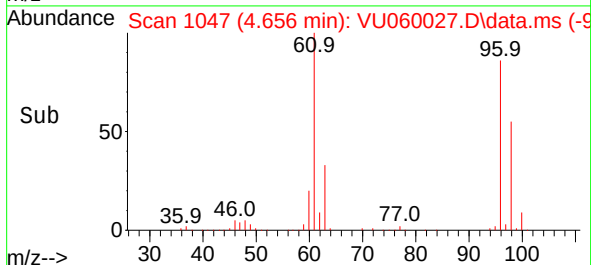
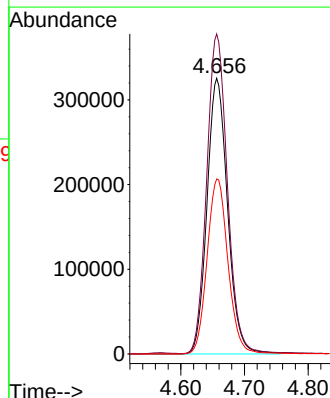
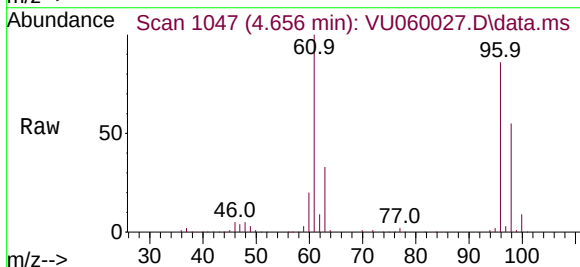
Instrument :
MSVOA_U
ClientSampleId :

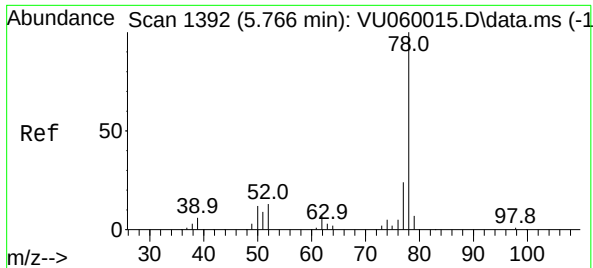
Tgt Ion: 63 Resp: 8755
Ion Ratio Lower Upper
63 100
65 32.7 22.0 40.8
83 14.1 9.7 17.9



#22
cis-1,2-Dichloroethene
Concen: 58.100 ug/L
RT: 4.656 min Scan# 1047
Delta R.T. -0.000 min
Lab File: VU060027.D
Acq: 18 Jul 2024 19:11

Tgt Ion: 96 Resp: 732144
Ion Ratio Lower Upper
96 100
61 116.1 80.2 148.9
98 63.5 44.7 83.1

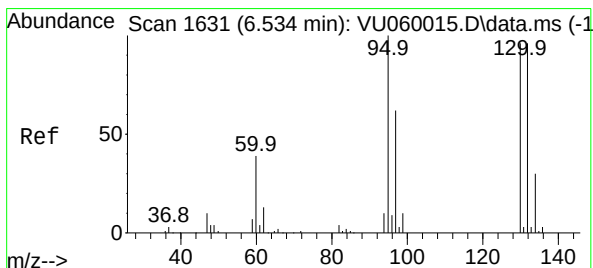
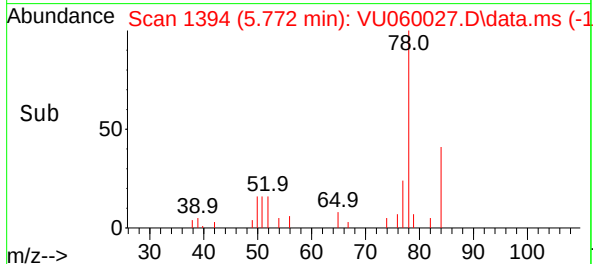
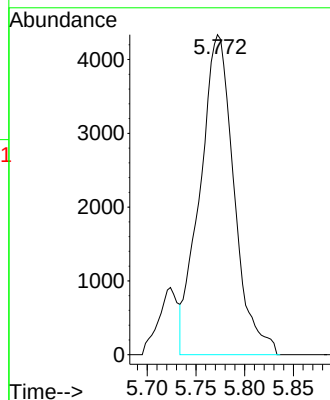
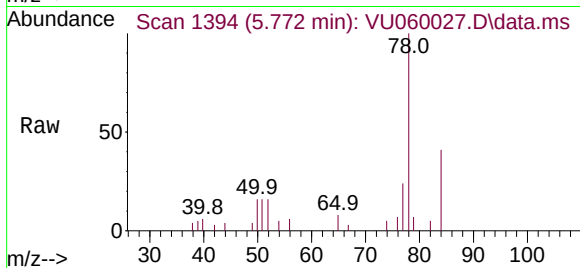




#33
Benzene
Concen: 0.221 ug/L
RT: 5.772 min Scan# 1394
Delta R.T. 0.006 min
Lab File: VU060027.D
Acq: 18 Jul 2024 19:11

Instrument :
MSVOA_U
ClientSampleId :

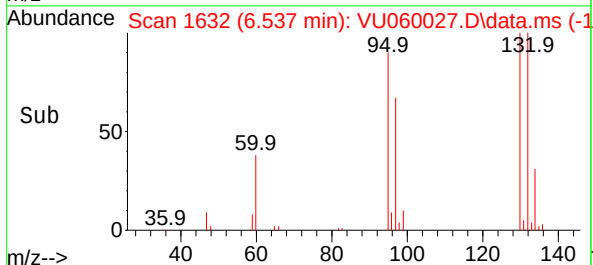
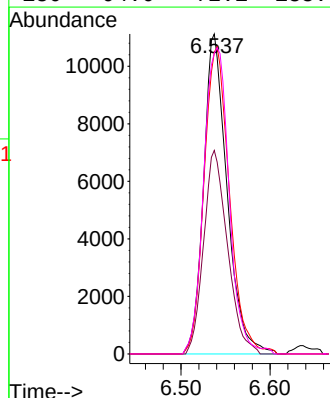
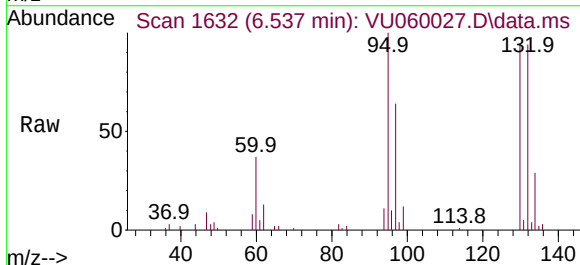
Tgt Ion: 78 Resp: 10525

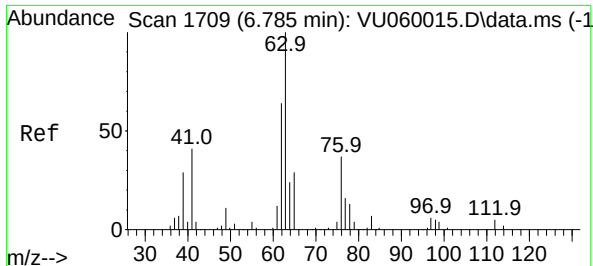


#34
Trichloroethene
Concen: 1.616 ug/L
RT: 6.537 min Scan# 1632
Delta R.T. 0.003 min
Lab File: VU060027.D
Acq: 18 Jul 2024 19:11

Tgt Ion: 95 Resp: 20391

Ion	Ratio	Lower	Upper
95	100		
97	63.6	45.9	85.3
132	94.3	71.4	132.6
130	94.0	72.1	133.9

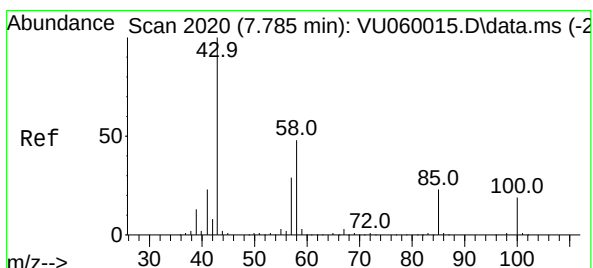
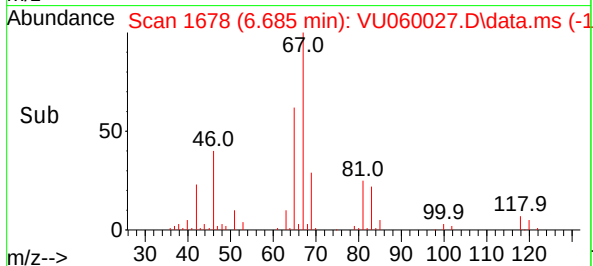
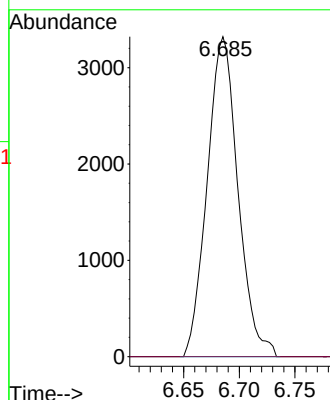
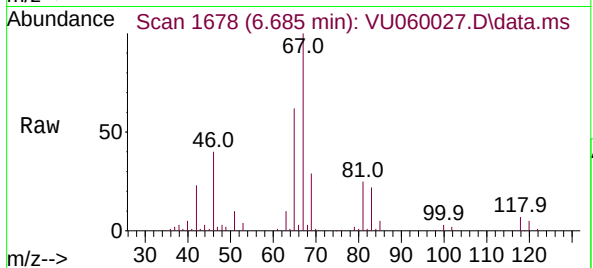




#37
1,2-Dichloropropane
Concen: 0.498 ug/L
RT: 6.685 min Scan# 11
Delta R.T. -0.100 min
Lab File: VU060027.D
Acq: 18 Jul 2024 19:11

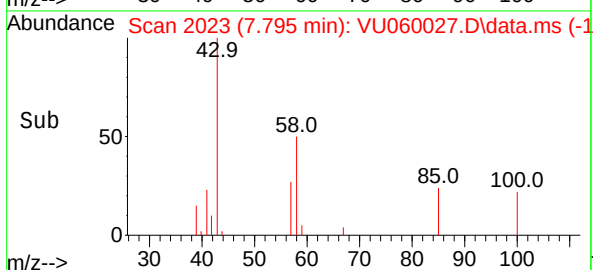
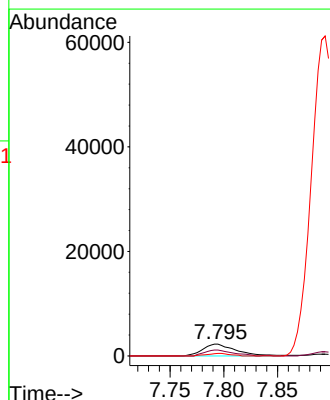
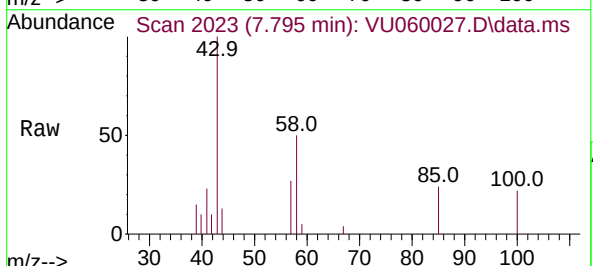
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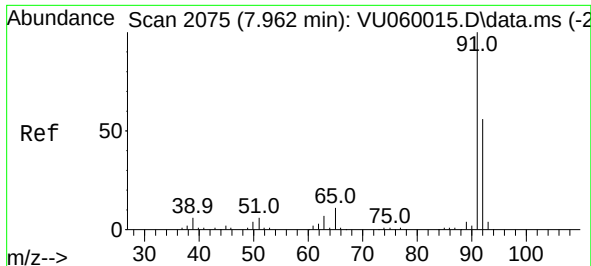
Tgt Ion: 63 Resp: 6397
Ion Ratio Lower Upper
63 100
112 0.0 3.3 4.9#



#40
4-Methyl-2-pentanone
Concen: 0.854 ug/L
RT: 7.795 min Scan# 2023
Delta R.T. 0.009 min
Lab File: VU060027.D
Acq: 18 Jul 2024 19:11

Tgt Ion: 43 Resp: 4855
Ion Ratio Lower Upper
43 100
58 42.6 36.0 54.0
100 0.0 14.9 22.3#





#42

Toluene

Concen: 0.766 ug/L

RT: 7.965 min Scan# 2075

Delta R.T. 0.003 min

Lab File: VU060027.D

Acq: 18 Jul 2024 19:11

Instrument :

MSVOA_U

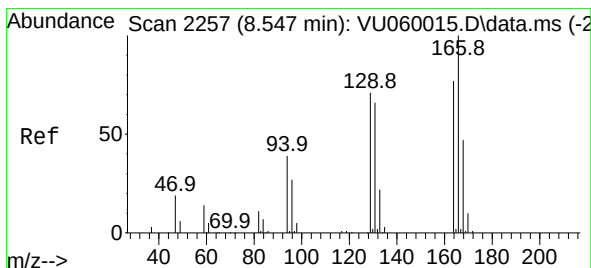
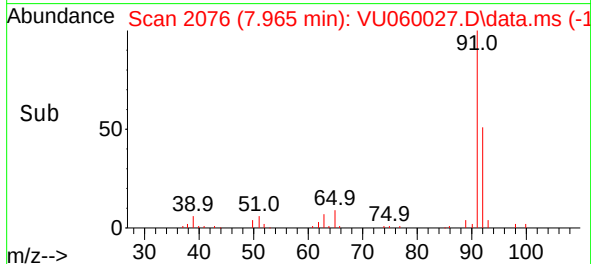
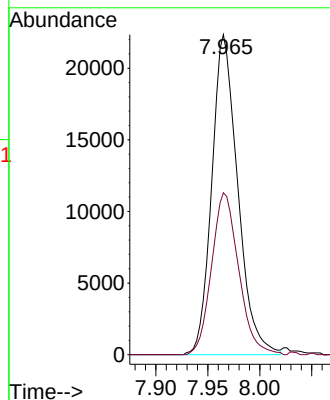
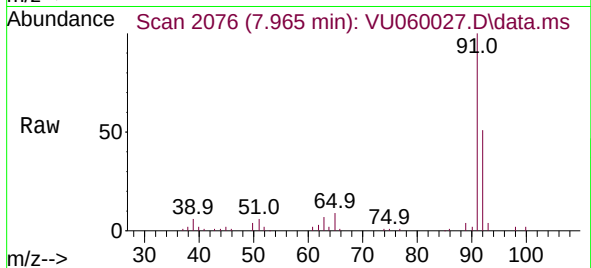
ClientSampleId :

Tgt Ion: 91 Resp: 38791

Ion Ratio Lower Upper

91 100

92 50.6 39.8 73.8



#47

Tetrachloroethene

Concen: 3.134 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.000 min

Lab File: VU060027.D

Acq: 18 Jul 2024 19:11

Tgt Ion: 164 Resp: 32695

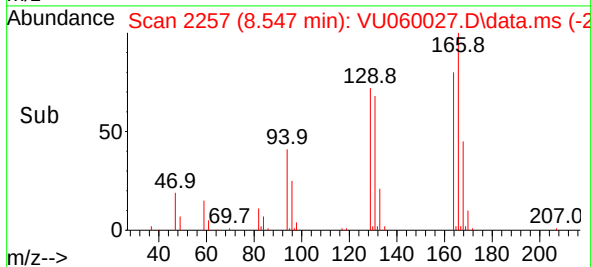
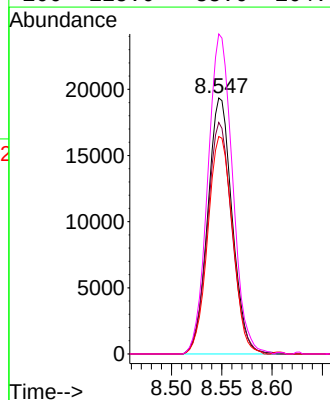
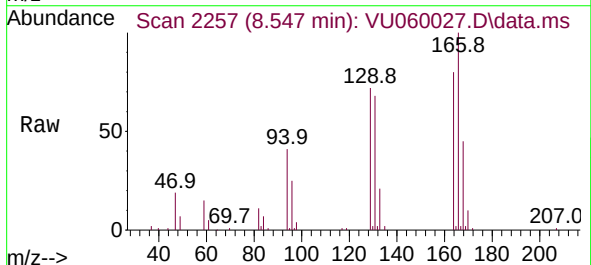
Ion Ratio Lower Upper

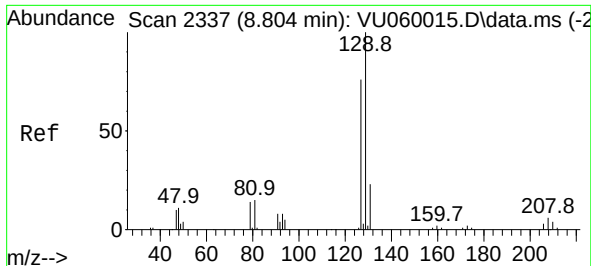
164 100

129 90.4 64.6 120.0

131 84.9 61.2 113.8

166 125.0 88.6 164.6





#49

Dibromochloromethane

Concen: 2.749 ug/L

RT: 8.547 min Scan# 21

Delta R.T. -0.257 min MSVOA_U

Lab File: VU060027.D

Acq: 18 Jul 2024 19:11

Instrument :

MSVOA_U

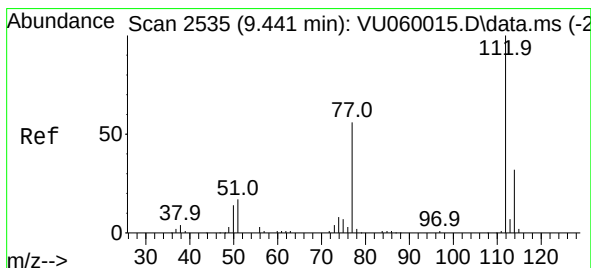
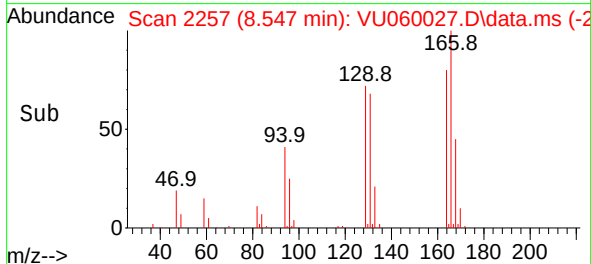
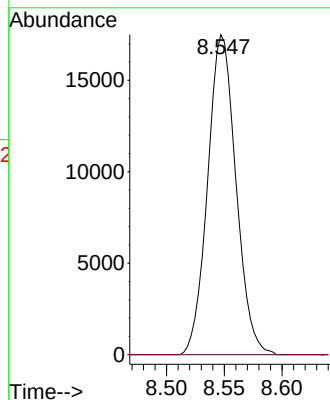
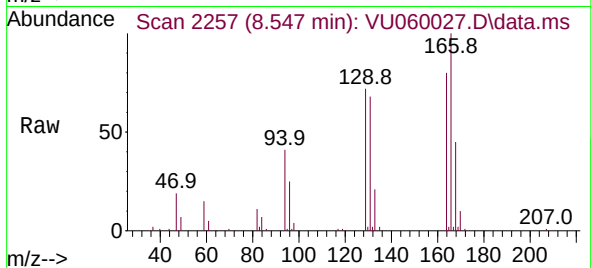
ClientSampleId :

Tgt Ion:129 Resp: 29868

Ion Ratio Lower Upper

129 100

127 0.0 54.6 101.4#



#51

Chlorobenzene

Concen: 0.307 ug/L

RT: 9.444 min Scan# 2536

Delta R.T. 0.003 min

Lab File: VU060027.D

Acq: 18 Jul 2024 19:11

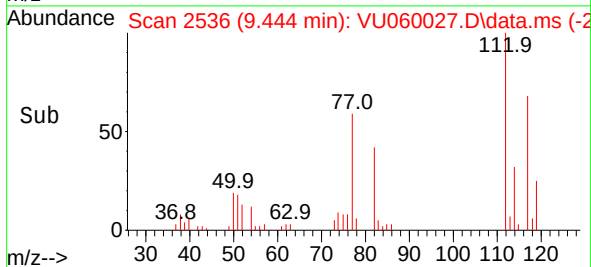
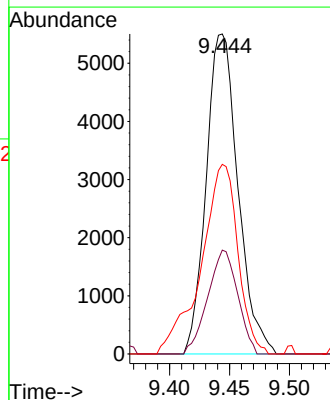
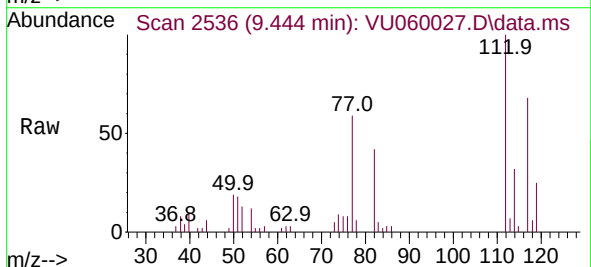
Tgt Ion:112 Resp: 10140

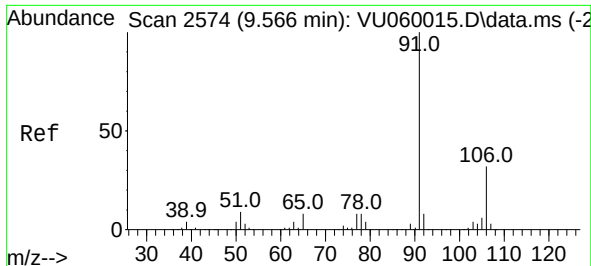
Ion Ratio Lower Upper

112 100

114 32.4 22.1 41.1

77 59.3 44.7 67.1

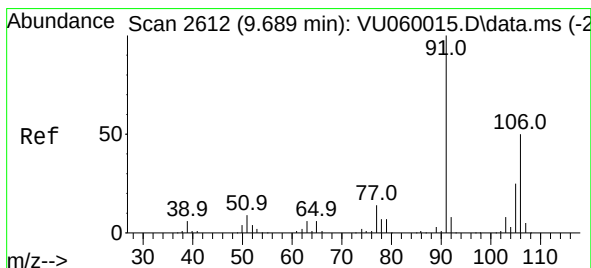
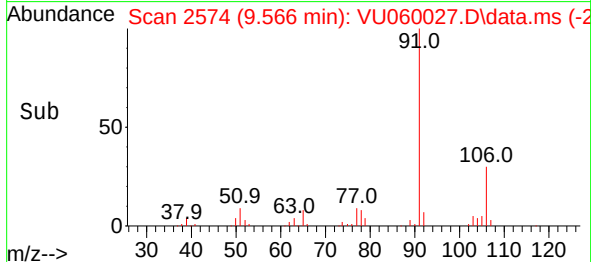
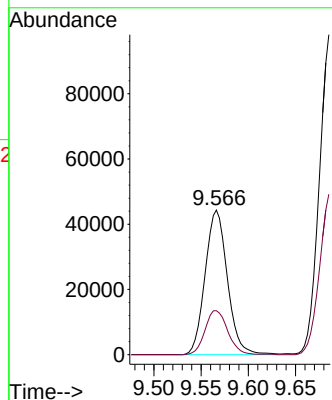
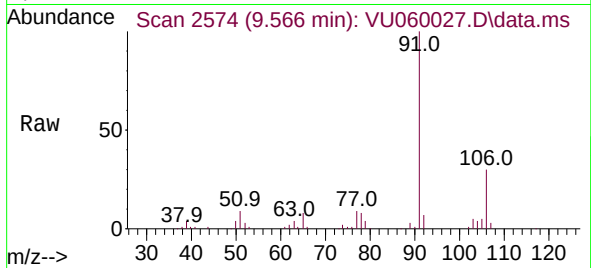




#52
Ethylbenzene
Concen: 1.444 ug/L
RT: 9.566 min Scan# 2574
Delta R.T. -0.000 min
Lab File: VU060027.D
Acq: 18 Jul 2024 19:11

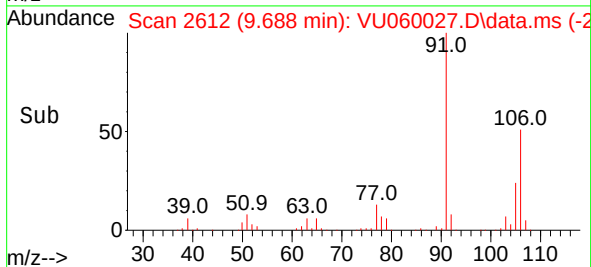
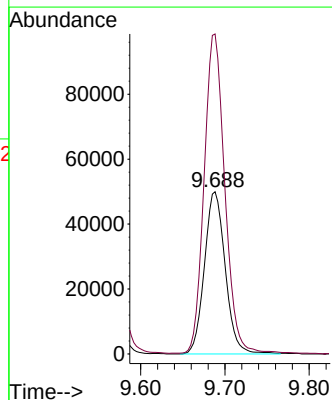
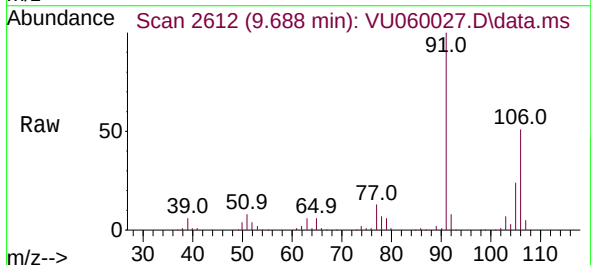
Instrument :
MSVOA_U
ClientSampleId :

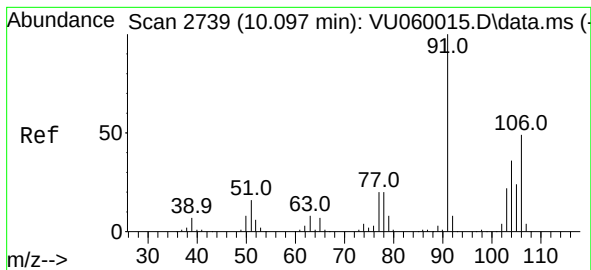
Tgt Ion: 91 Resp: 72907
Ion Ratio Lower Upper
91 100
106 30.4 21.9 40.7



#53
m,p-Xylene
Concen: 4.417 ug/L
RT: 9.688 min Scan# 2612
Delta R.T. -0.000 min
Lab File: VU060027.D
Acq: 18 Jul 2024 19:11

Tgt Ion:106 Resp: 86148
Ion Ratio Lower Upper
106 100
91 197.3 141.3 262.5





#54

o-Xylene

Concen: 5.533 ug/L

RT: 10.093 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU060027.D

Acq: 18 Jul 2024 19:11

Instrument :

MSVOA_U

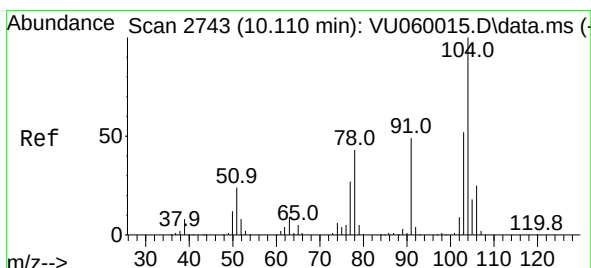
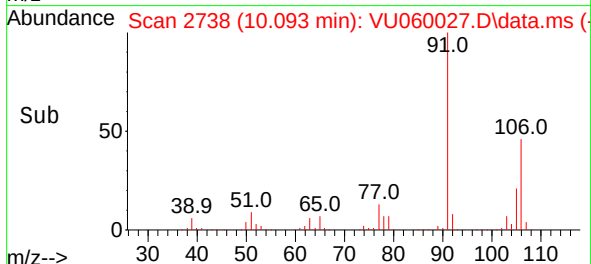
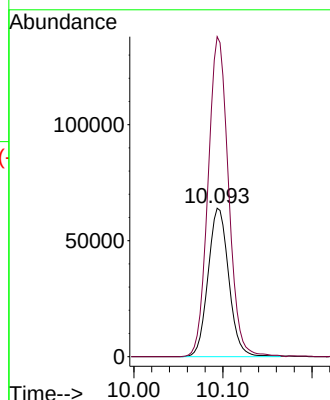
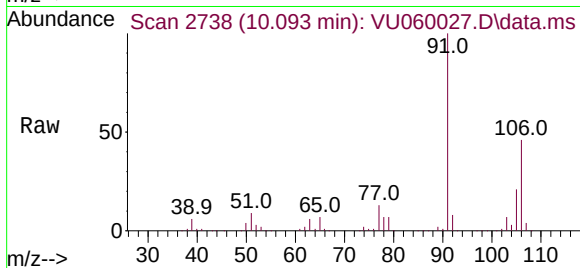
ClientSampleId :

Tgt Ion:106 Resp: 103203

Ion Ratio Lower Upper

106 100

91 215.5 143.6 266.6



#55

Styrene

Concen: 0.230 ug/L

RT: 10.093 min Scan# 2738

Delta R.T. -0.016 min

Lab File: VU060027.D

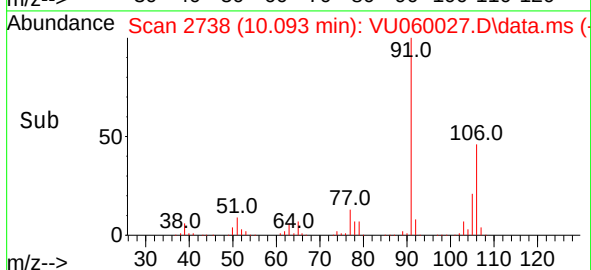
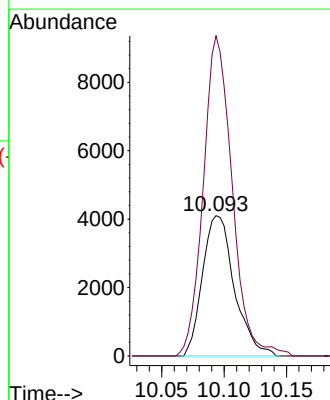
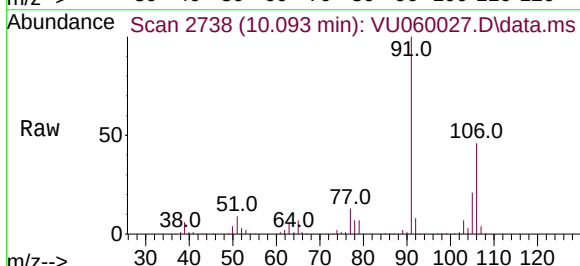
Acq: 18 Jul 2024 19:11

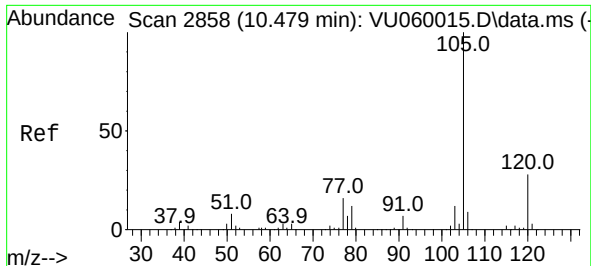
Tgt Ion:104 Resp: 7289

Ion Ratio Lower Upper

104 100

78 228.0 31.4 58.4#

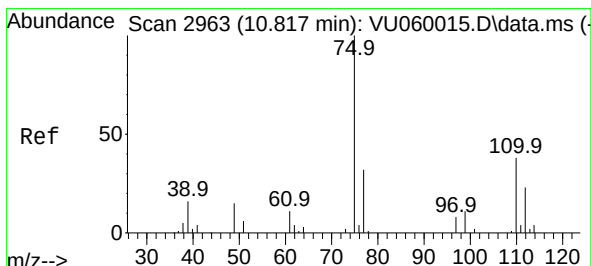
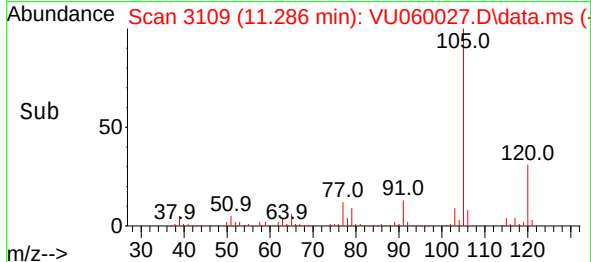
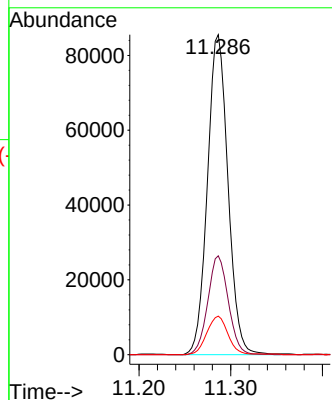
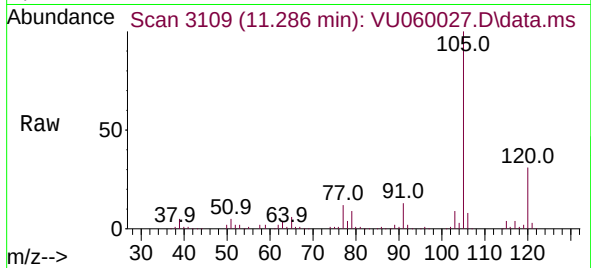




#60
Isopropylbenzene
Concen: 2.612 ug/L
RT: 11.286 min Scan# 3109
Delta R.T. 0.807 min
Lab File: VU060027.D
Acq: 18 Jul 2024 19:11

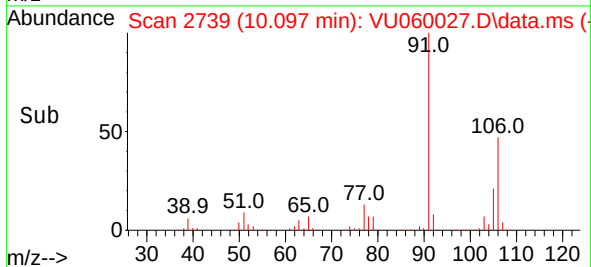
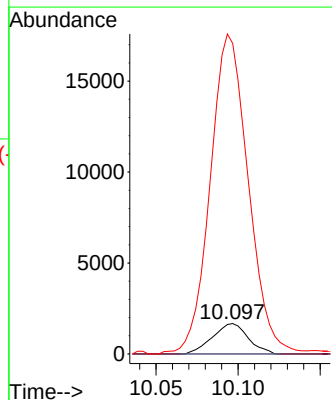
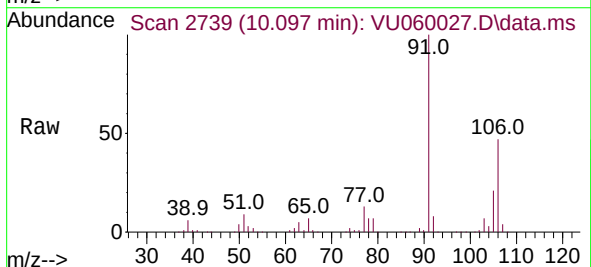
Instrument :
MSVOA_U
ClientSampleId :

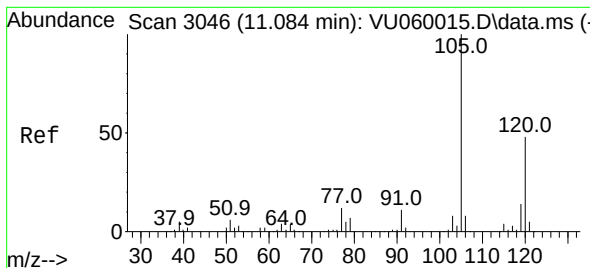
Tgt Ion:105 Resp: 133398
Ion Ratio Lower Upper
105 100
120 30.9 21.9 32.9
77 12.3 12.1 18.1



#61
1,2,3-Trichloropropane
Concen: 0.306 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. -0.720 min
Lab File: VU060027.D
Acq: 18 Jul 2024 19:11

Tgt Ion: 75 Resp: 2521
Ion Ratio Lower Upper
75 100
110 0.0 30.8 46.2#
77 1126.1 26.2 39.2#





#62

1,3,5-Trimethylbenzene

Concen: 3.027 ug/L

RT: 11.081 min Scan# 3046

Delta R.T. -0.003 min

Lab File: VU060027.D

Acq: 18 Jul 2024 19:11

Instrument :

MSVOA_U

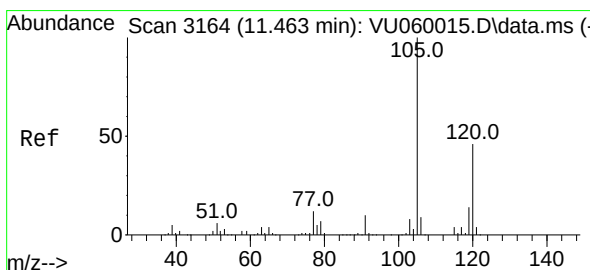
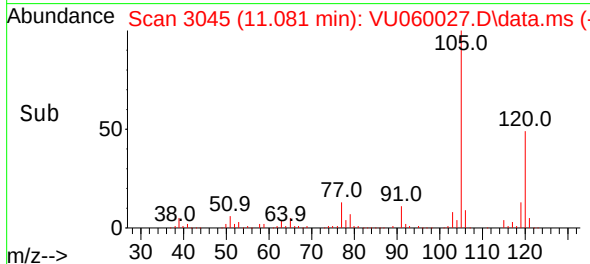
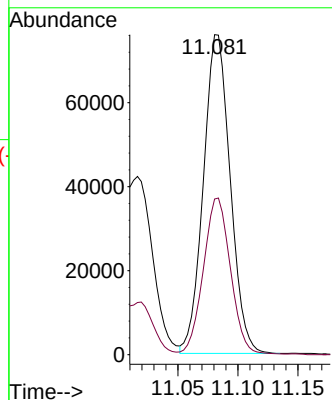
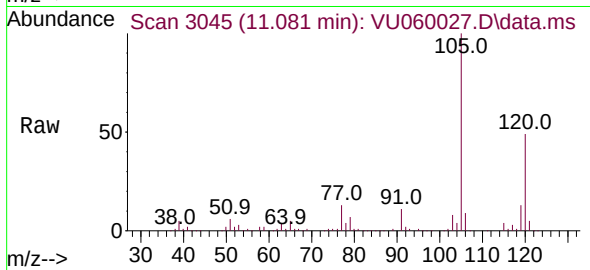
ClientSampleId :

Tgt Ion:105 Resp: 118097

Ion Ratio Lower Upper

105 100

120 49.2 39.4 59.2



#63

1,2,4-Trimethylbenzene

Concen: 5.475 ug/L

RT: 11.463 min Scan# 3164

Delta R.T. -0.000 min

Lab File: VU060027.D

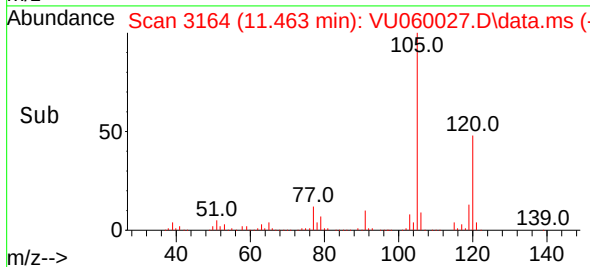
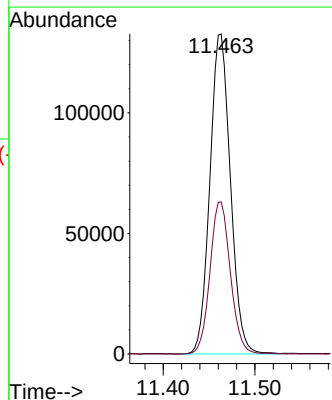
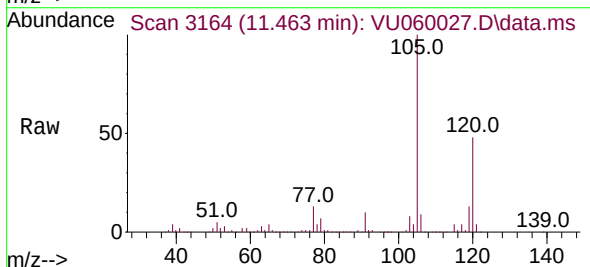
Acq: 18 Jul 2024 19:11

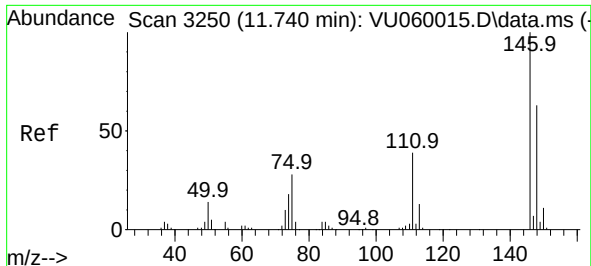
Tgt Ion:105 Resp: 206441

Ion Ratio Lower Upper

105 100

120 47.2 36.7 55.1





#64

1,3-Dichlorobenzene

Concen: 0.334 ug/L

RT: 11.743 min Scan# 3250

Delta R.T. 0.003 min

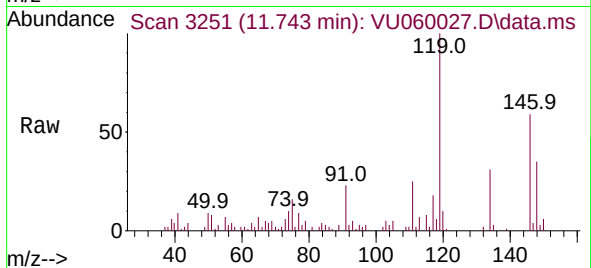
Lab File: VU060027.D

Acq: 18 Jul 2024 19:11

Instrument :

MSVOA_U

ClientSampleId :



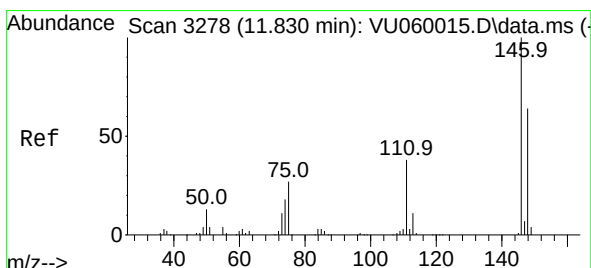
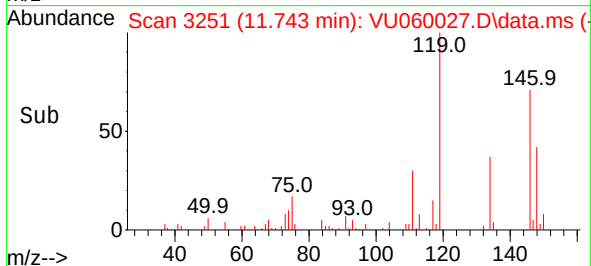
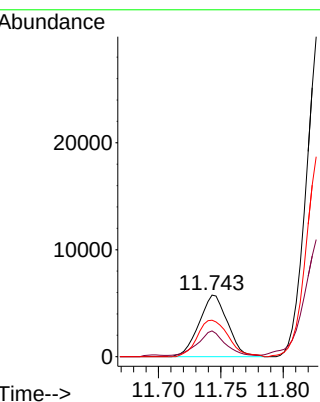
Tgt Ion:146 Resp: 9187

Ion Ratio Lower Upper

146 100

111 41.8 27.2 50.4

148 59.2 44.3 82.3



#65

1,4-Dichlorobenzene

Concen: 1.898 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. -0.000 min

Lab File: VU060027.D

Acq: 18 Jul 2024 19:11

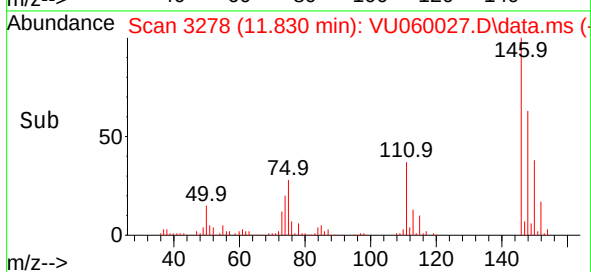
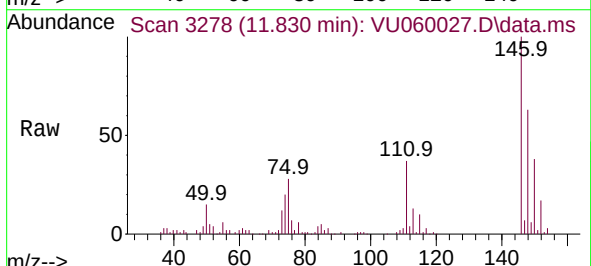
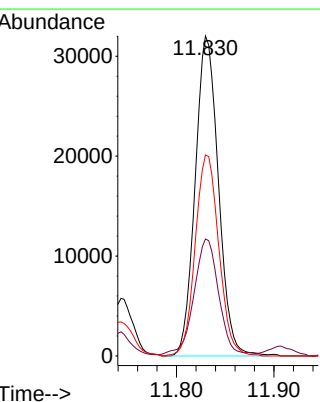
Tgt Ion:146 Resp: 53096

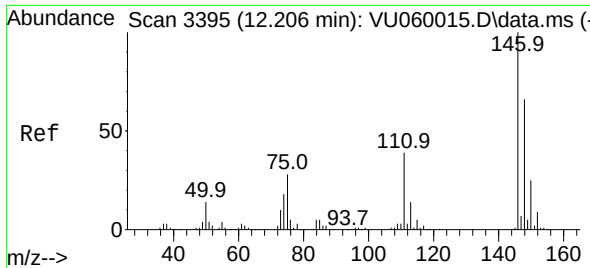
Ion Ratio Lower Upper

146 100

111 36.6 26.5 49.1

148 62.8 45.3 84.1





#67

1,2-Dichlorobenzene

Concen: 8.692 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. -0.000 min

Lab File: VU060027.D

Acq: 18 Jul 2024 19:11

Instrument :

MSVOA_U

ClientSampleId :

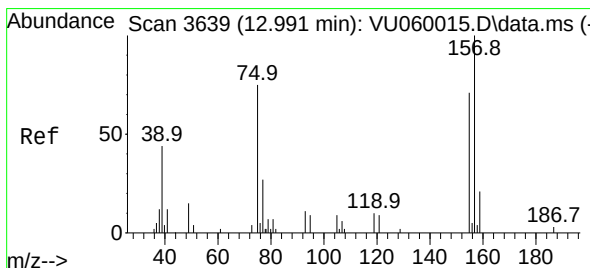
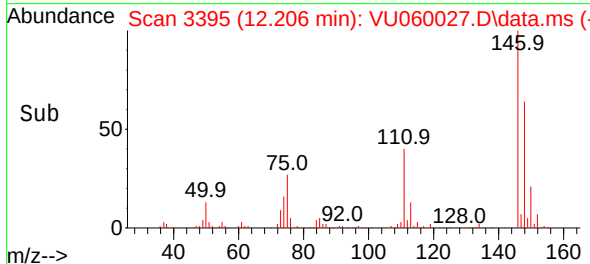
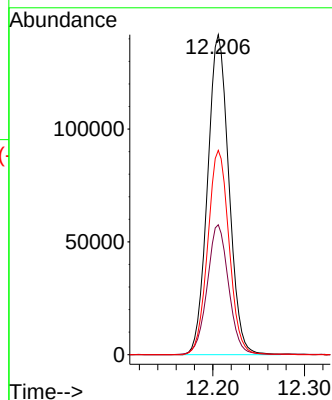
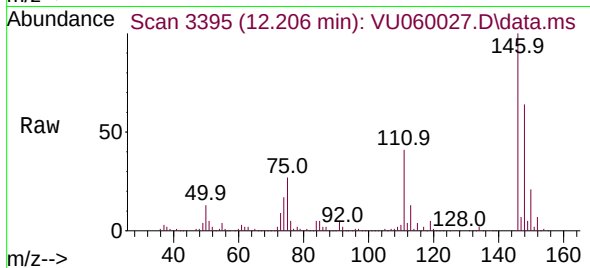
Tgt Ion:146 Resp: 228634

Ion Ratio Lower Upper

146 100

111 40.6 30.9 46.3

148 63.8 49.8 74.8



#68

1,2-Dibromo-3-chloropropane

Concen: 0.378 ug/L

RT: 12.968 min Scan# 3632

Delta R.T. -0.023 min

Lab File: VU060027.D

Acq: 18 Jul 2024 19:11

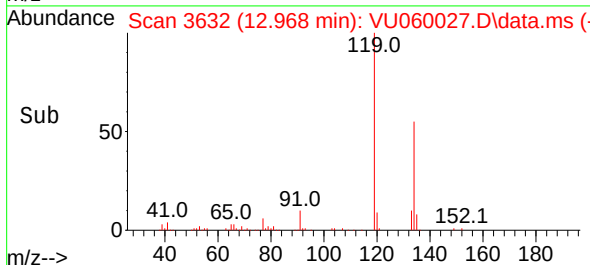
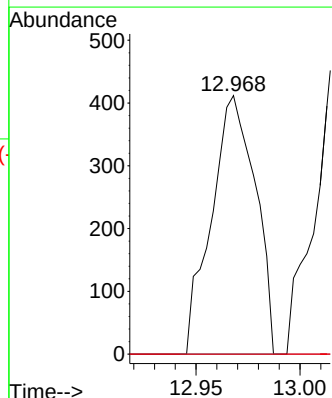
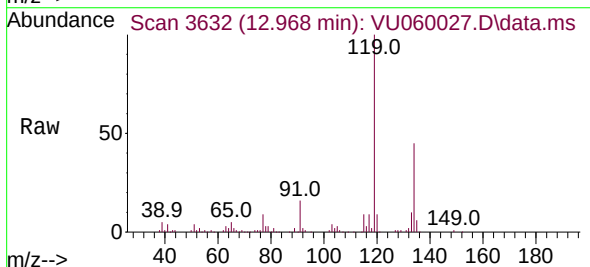
Tgt Ion: 75 Resp: 607

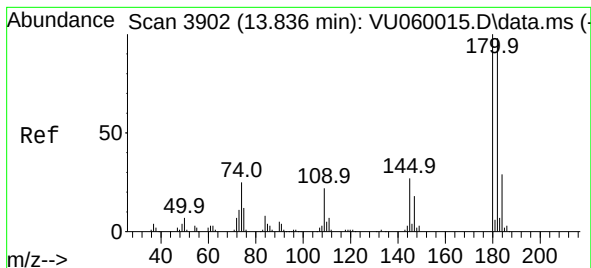
Ion Ratio Lower Upper

75 100

155 0.0 70.6 105.8#

157 0.0 99.4 149.2#





#70

1,2,4-trichlorobenzene

Concen: 0.240 ug/L

RT: 13.839 min Scan# 3902

Delta R.T. 0.003 min

Lab File: VU060027.D

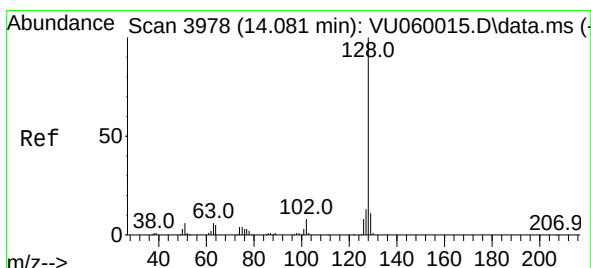
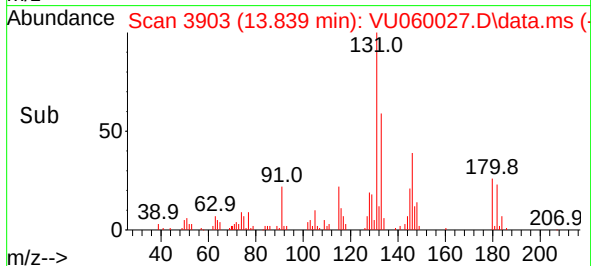
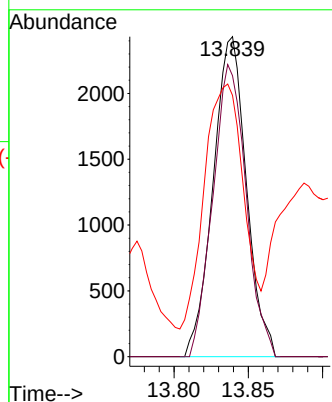
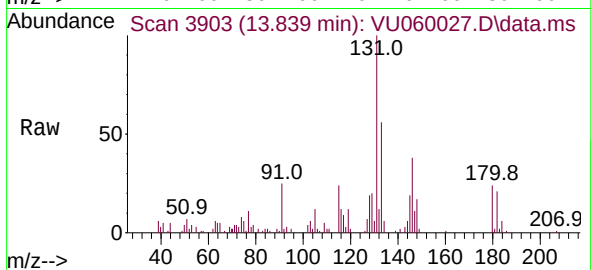
Acq: 18 Jul 2024 19:11

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:180	Resp:	3788
Ion Ratio	Lower	Upper
180	100	
182	90.9	77.2 115.8
145	89.5	23.0 34.4#



#71

Naphthalene

Concen: 8.529 ug/L

RT: 14.080 min Scan# 3978

Delta R.T. -0.000 min

Lab File: VU060027.D

Acq: 18 Jul 2024 19:11

Tgt Ion:128	Resp:	190738
Ion Ratio	Lower	Upper
128	100	
129	11.5	8.2 12.4
127	13.1	10.6 16.0

