

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100323\
 Data File : VU055650.D
 Acq On : 03 Oct 2023 19:23
 Operator : MD/SY
 Sample : 04679-19 1000X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-1(20230928)

Quant Time: Oct 04 04:46:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR091923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Oct 04 04:40:48 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	174529	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	186034	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	100864	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	88978	5.044	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	100.800%
7) Chloroethane-d5	1.910	69	70032	4.505	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.200%
11) 1,1-Dichloroethene-d2	2.563	65	34360	4.732	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	94.600%
20) 2-Butanone-d5	4.627	46	134240	42.133	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	84.260%
24) Chloroform-d	5.061	84	146477	4.591	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.800%
26) 1,2-Dichloroethane-d4	5.701	65	70744	4.610	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.200%
32) Benzene-d6	5.724	84	294590	4.527	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.600%
36) 1,2-Dichloropropane-d6	6.688	67	90200	4.639	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.800%
41) Toluene-d8	7.897	98	253958	4.282	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.600%
43) trans-1,3-Dichloroprop...	8.180	79	30725	4.503	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.000%
46) 2-Hexanone-d5	8.634	63	80140	38.616	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	77.240%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	64563	4.431	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.600%
66) 1,2-Dichlorobenzene-d4	12.193	152	89688	4.406	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.200%
Target Compounds						Qvalue
5) Vinyl chloride	1.602	62	3479	0.216	ug/L	# 48
16) Methylene chloride	3.042	84	7109	0.486	ug/L	88
22) cis-1,2-Dichloroethene	4.663	96	113735	7.976	ug/L	97
34) Trichloroethene	6.541	95	21344	1.409	ug/L	93
42) Toluene	7.968	91	473950	8.298	ug/L	100
47) Tetrachloroethene	8.550	164	61002	5.615	ug/L	96
51) Chlorobenzene	9.447	112	21556	0.589	ug/L	99
52) Ethylbenzene	9.573	91	19513	0.319	ug/L	92
53) m,p-Xylene	9.692	106	27479	1.198	ug/L	95
54) o-Xylene	10.100	106	9808	0.440	ug/L	91
63) 1,2,4-Trimethylbenzene	11.470	105	10347	0.227	ug/L	100
64) 1,3-Dichlorobenzene	11.746	146	17280	0.621	ug/L	93
65) 1,4-Dichlorobenzene	11.836	146	96712	3.477	ug/L	99
67) 1,2-Dichlorobenzene	12.212	146	29910	1.172	ug/L	96
70) 1,2,4-trichlorobenzene	13.839	180	275928	18.884	ug/L	99
72) 1,2,3-Trichlorobenzene	14.328	180	48913	3.847	ug/L	96

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

Instrument :

MSVOA_U

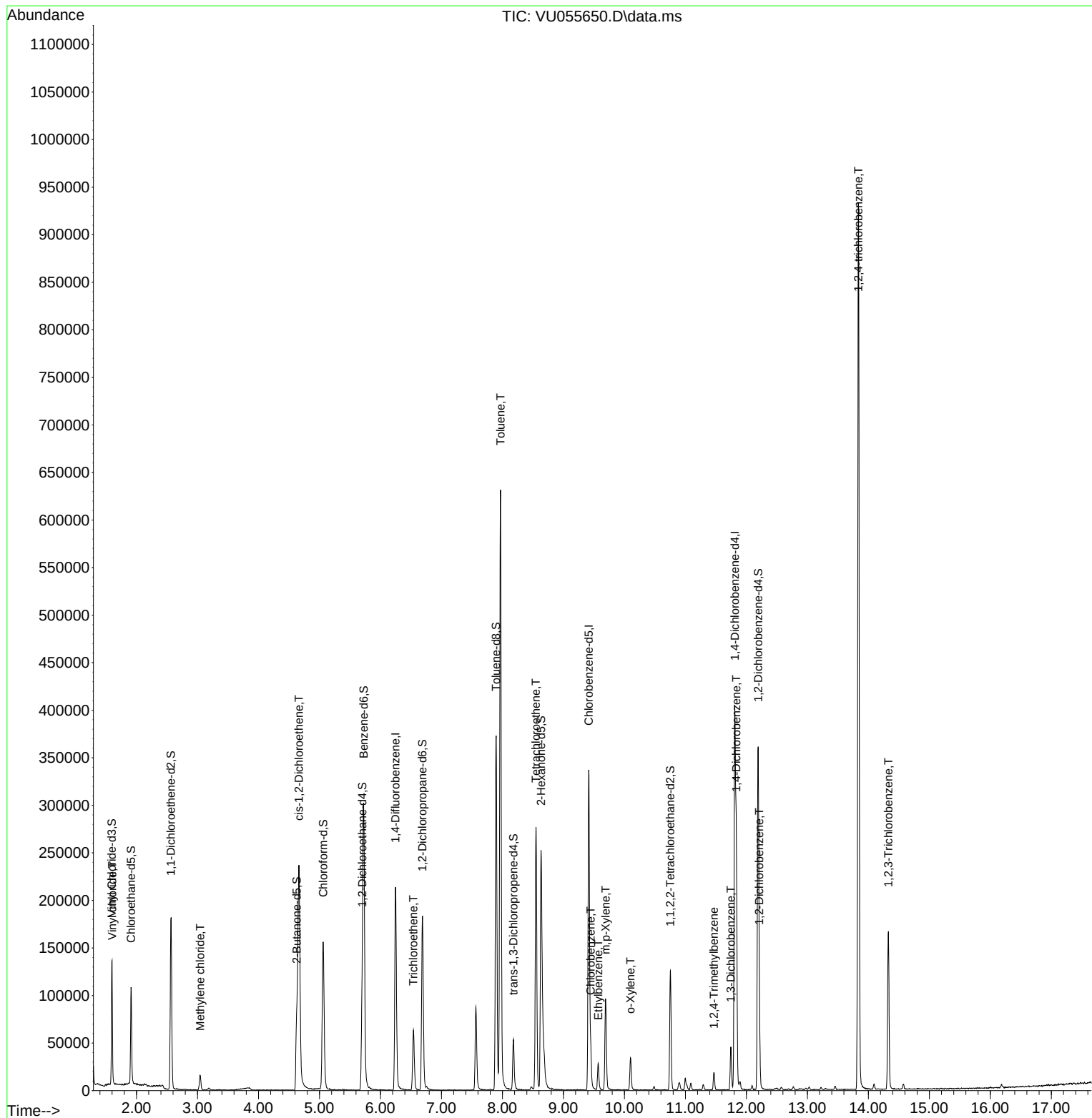
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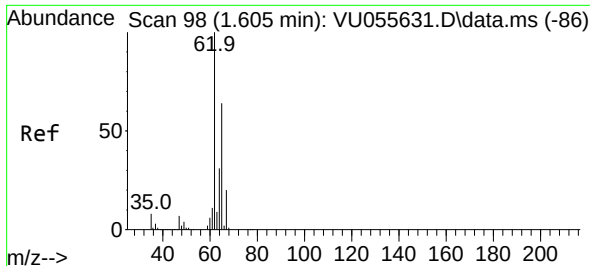
DUP-1(20230928)

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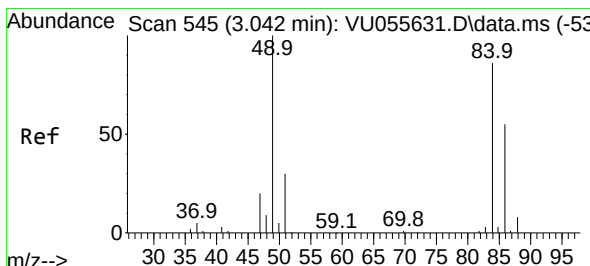
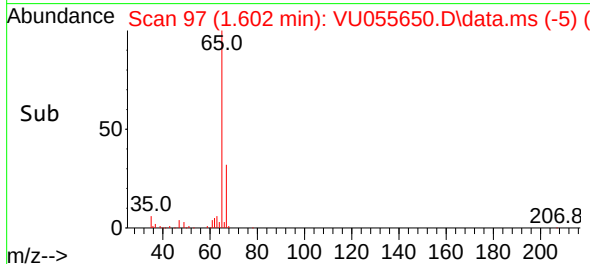
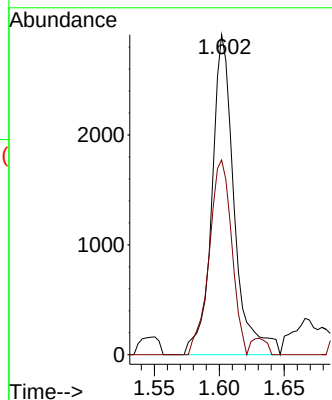
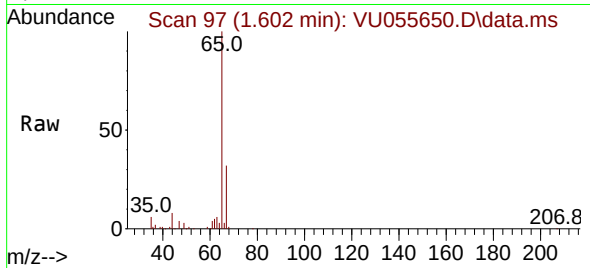




#5
 Vinyl chloride
 Concen: 0.216 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. -0.003 min
 Lab File: VU055650.D
 Acq: 03 Oct 2023 19:23

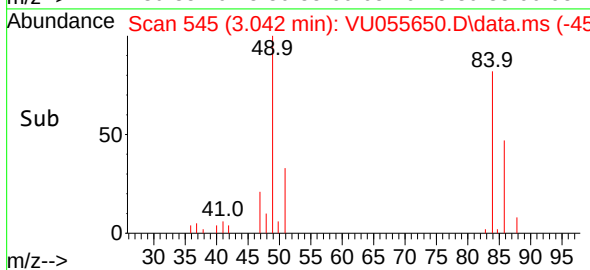
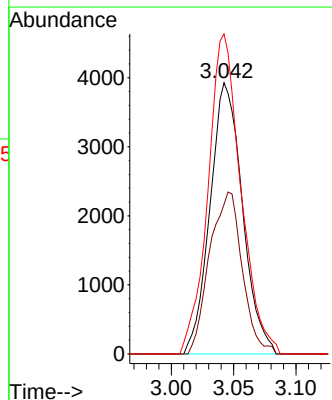
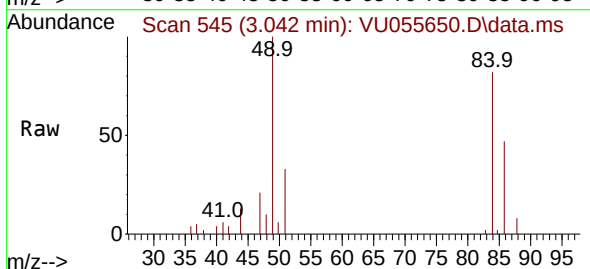
Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-1(20230928)

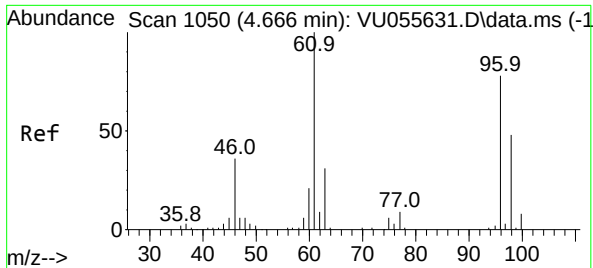
Tgt Ion: 62 Resp: 3479
 Ion Ratio Lower Upper
 62 100
 64 60.9 22.3 41.5#



#16
 Methylene chloride
 Concen: 0.486 ug/L
 RT: 3.042 min Scan# 545
 Delta R.T. -0.000 min
 Lab File: VU055650.D
 Acq: 03 Oct 2023 19:23

Tgt Ion: 84 Resp: 7109
 Ion Ratio Lower Upper
 84 100
 86 55.1 44.9 83.3
 49 125.2 78.8 146.3

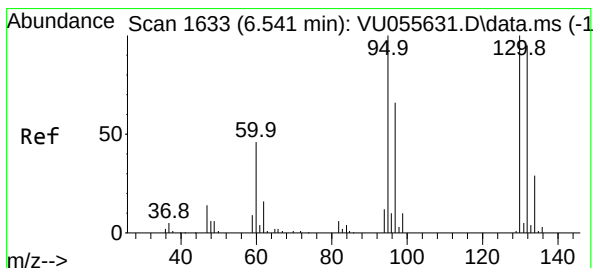
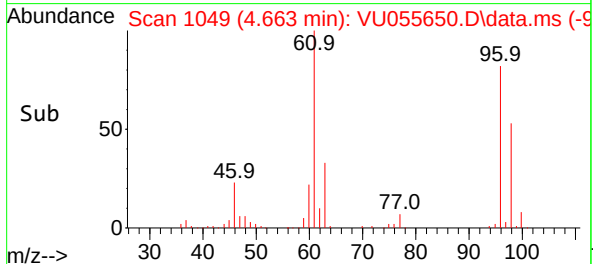
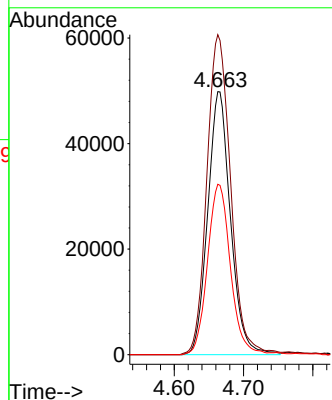
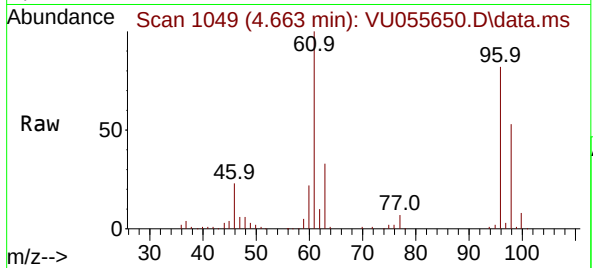




#22
 cis-1,2-Dichloroethene
 Concen: 7.976 ug/L
 RT: 4.663 min Scan# 1049
 Delta R.T. -0.003 min
 Lab File: VU055650.D
 Acq: 03 Oct 2023 19:23

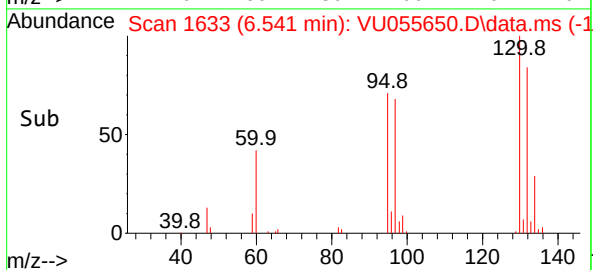
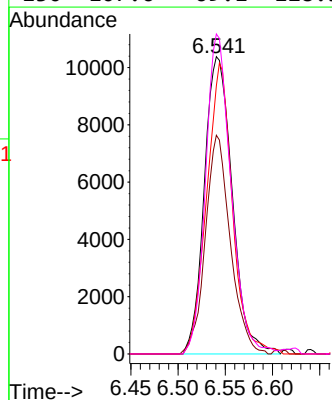
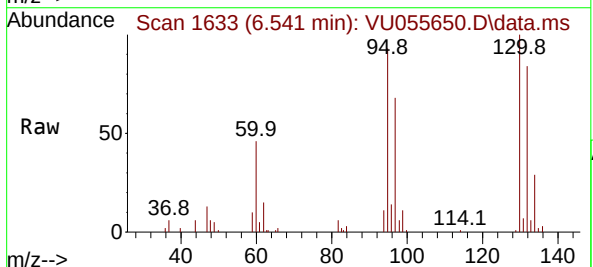
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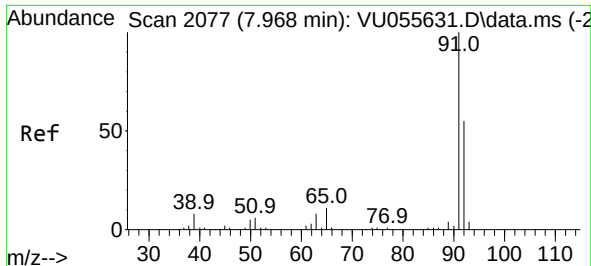
Tgt Ion: 96 Resp: 113735
 Ion Ratio Lower Upper
 96 100
 61 121.7 87.8 163.2
 98 64.8 44.4 82.4



#34
 Trichloroethene
 Concen: 1.409 ug/L
 RT: 6.541 min Scan# 1633
 Delta R.T. -0.000 min
 Lab File: VU055650.D
 Acq: 03 Oct 2023 19:23

Tgt Ion: 95 Resp: 21344
 Ion Ratio Lower Upper
 95 100
 97 73.6 45.4 84.2
 132 90.2 65.2 121.2
 130 107.6 69.1 128.3





#42

Toluene

Concen: 8.298 ug/L

RT: 7.968 min Scan# 2077

Delta R.T. -0.000 min

Lab File: VU055650.D

Acq: 03 Oct 2023 19:23

Instrument :

MSVOA_U

ClientSampleId :

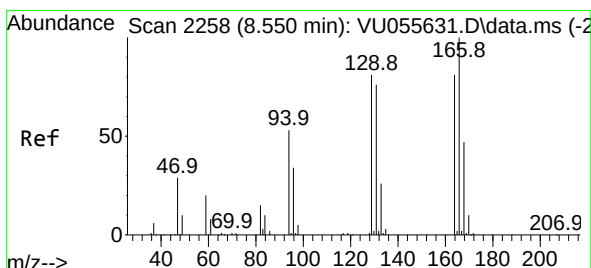
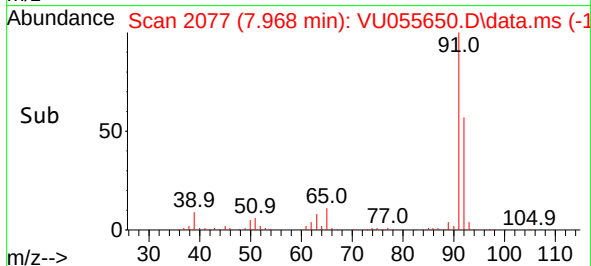
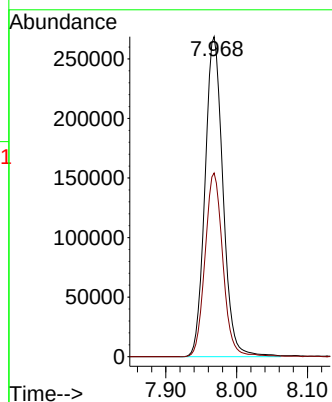
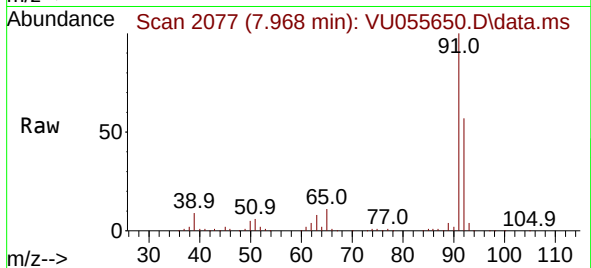
DUP-1(20230928)

Tgt Ion: 91 Resp: 473950

Ion Ratio Lower Upper

91 100

92 57.4 40.3 74.8



#47

Tetrachloroethene

Concen: 5.615 ug/L

RT: 8.550 min Scan# 2258

Delta R.T. -0.000 min

Lab File: VU055650.D

Acq: 03 Oct 2023 19:23

Tgt Ion: 164 Resp: 61002

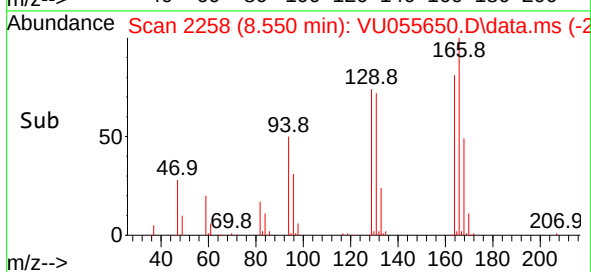
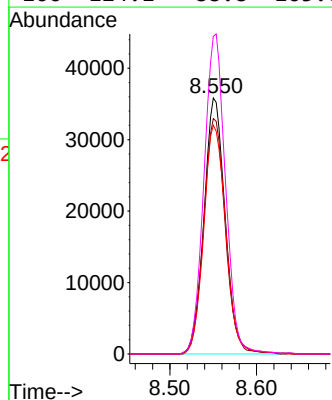
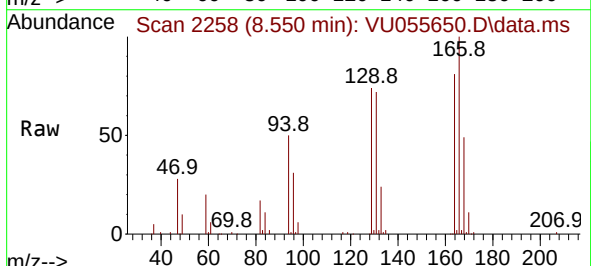
Ion Ratio Lower Upper

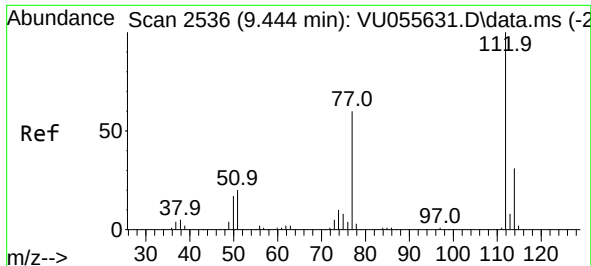
164 100

129 91.9 67.4 125.2

131 89.4 66.4 123.2

166 124.1 88.8 165.0

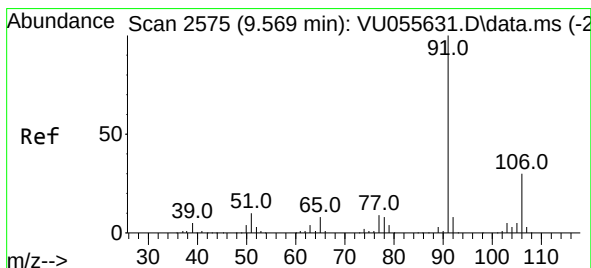
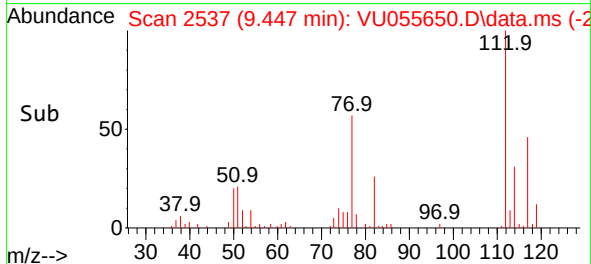
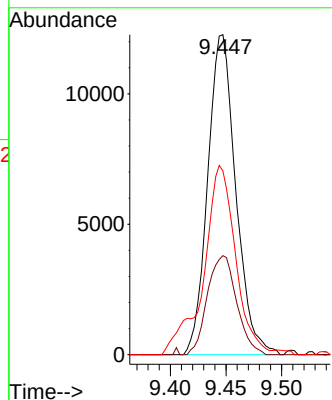
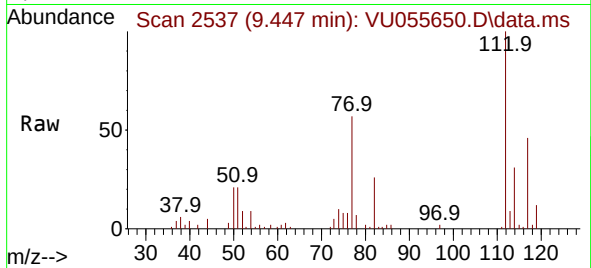




#51
Chlorobenzene
Concen: 0.589 ug/L
RT: 9.447 min Scan# 21556
Delta R.T. 0.003 min
Lab File: VU055650.D
Acq: 03 Oct 2023 19:23

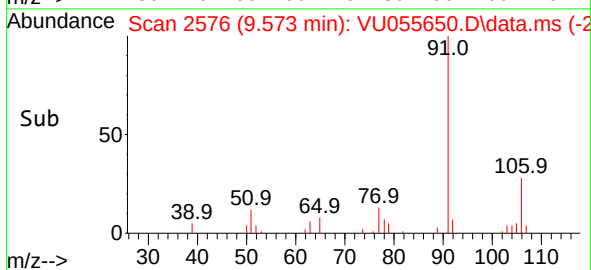
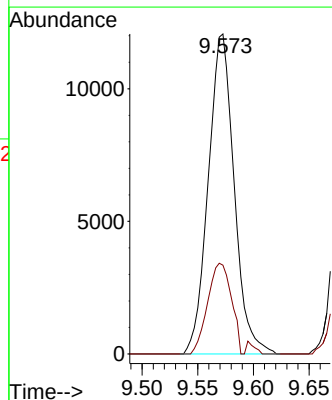
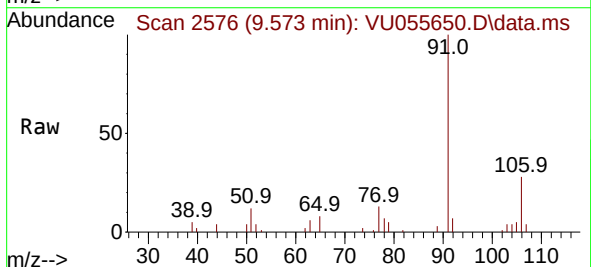
Instrument :
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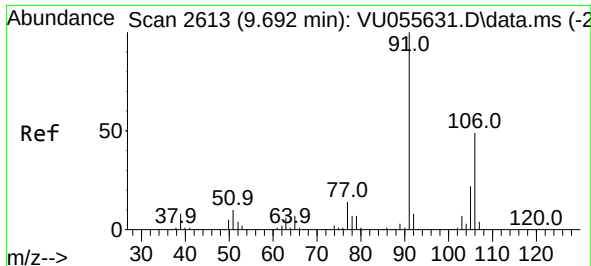
Tgt Ion:112 Resp: 21556
Ion Ratio Lower Upper
112 100
114 31.0 22.0 40.8
77 57.4 46.9 70.3



#52
Ethylbenzene
Concen: 0.319 ug/L
RT: 9.573 min Scan# 2576
Delta R.T. 0.003 min
Lab File: VU055650.D
Acq: 03 Oct 2023 19:23

Tgt Ion: 91 Resp: 19513
Ion Ratio Lower Upper
91 100
106 27.8 22.4 41.6

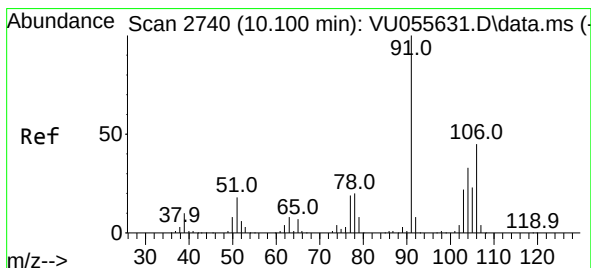
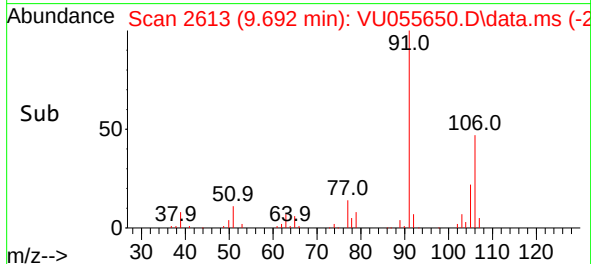
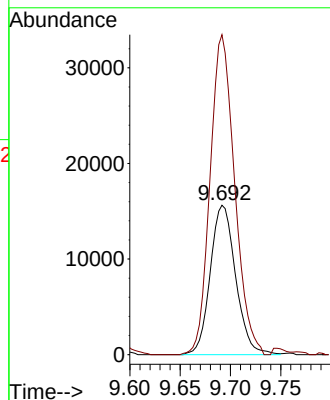
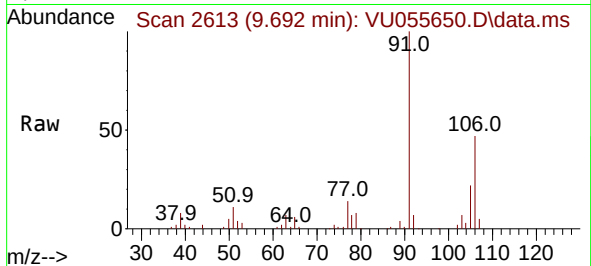




#53
m,p-Xylene
Concen: 1.198 ug/L
RT: 9.692 min Scan# 2613
Delta R.T. -0.000 min
Lab File: VU055650.D
Acq: 03 Oct 2023 19:23

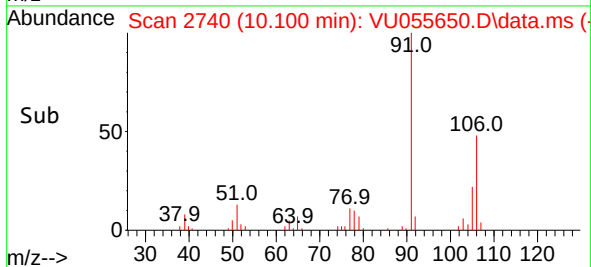
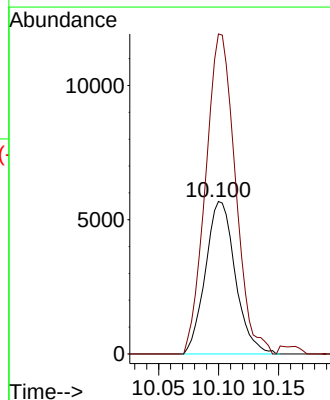
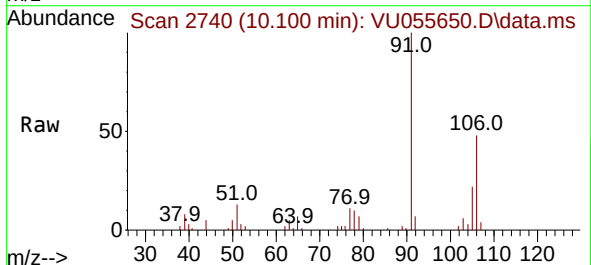
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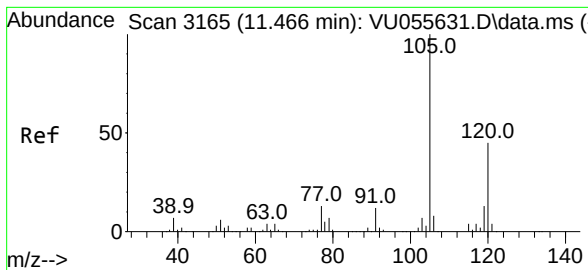
Tgt Ion:106 Resp: 27479
Ion Ratio Lower Upper
106 100
91 214.1 144.8 269.0



#54
o-Xylene
Concen: 0.440 ug/L
RT: 10.100 min Scan# 2740
Delta R.T. -0.000 min
Lab File: VU055650.D
Acq: 03 Oct 2023 19:23

Tgt Ion:106 Resp: 9808
Ion Ratio Lower Upper
106 100
91 209.9 157.6 292.8

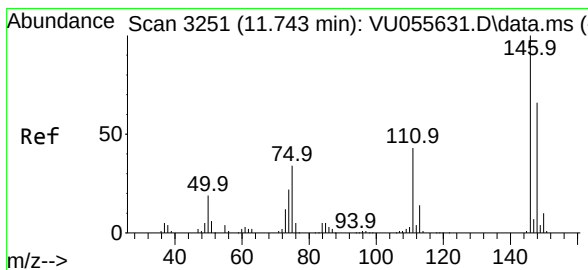
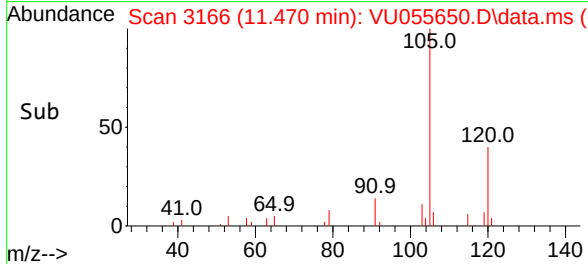
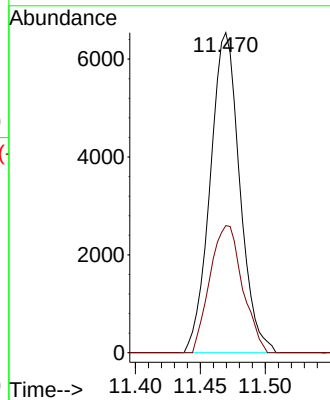
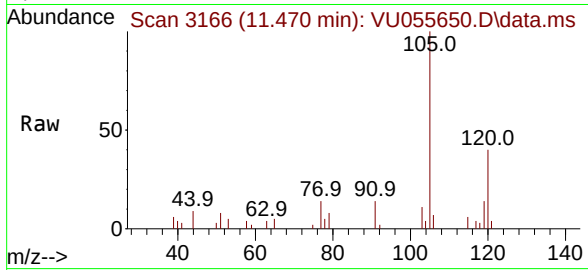




#63
1,2,4-Trimethylbenzene
Concen: 0.227 ug/L
RT: 11.470 min Scan# 3166
Delta R.T. 0.003 min
Lab File: VU055650.D
Acq: 03 Oct 2023 19:23

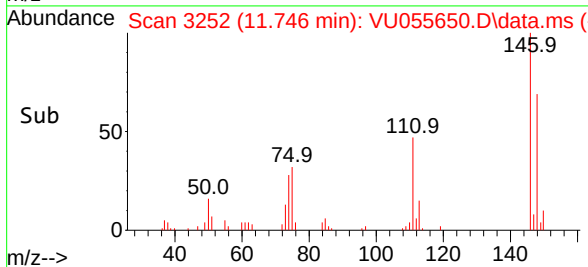
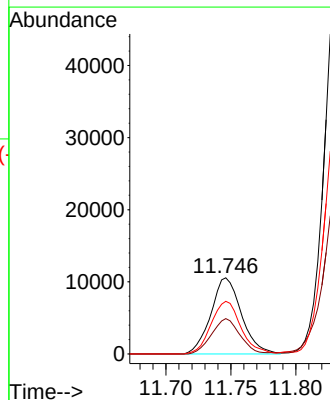
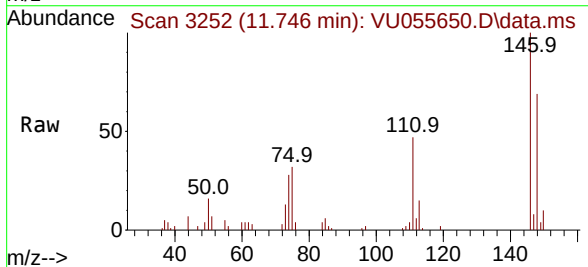
Instrument :
MSVOA_U
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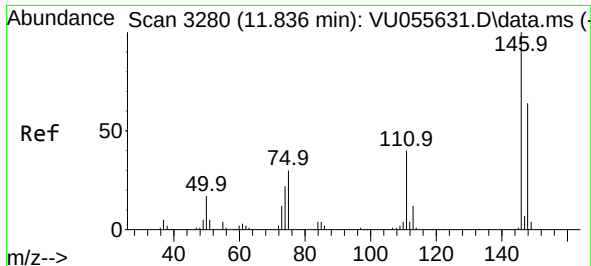
Tgt Ion:105 Resp: 10347
Ion Ratio Lower Upper
105 100
120 43.7 34.9 52.3



#64
1,3-Dichlorobenzene
Concen: 0.621 ug/L
RT: 11.746 min Scan# 3252
Delta R.T. 0.003 min
Lab File: VU055650.D
Acq: 03 Oct 2023 19:23

Tgt Ion:146 Resp: 17280
Ion Ratio Lower Upper
146 100
111 46.5 28.8 53.6
148 69.1 44.6 82.8

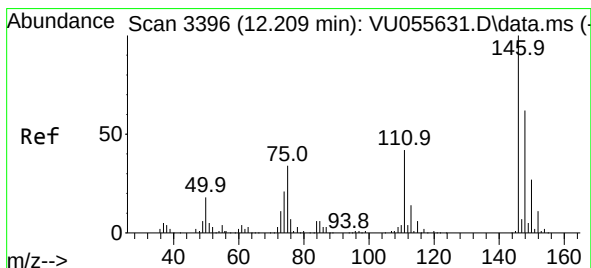
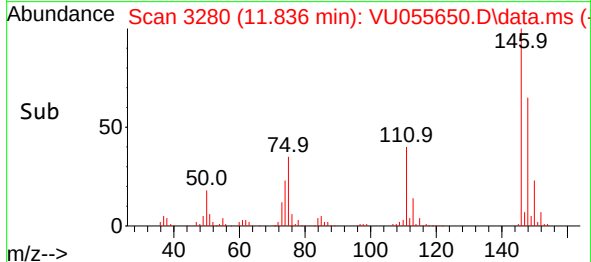
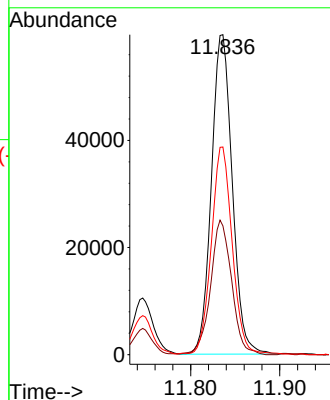
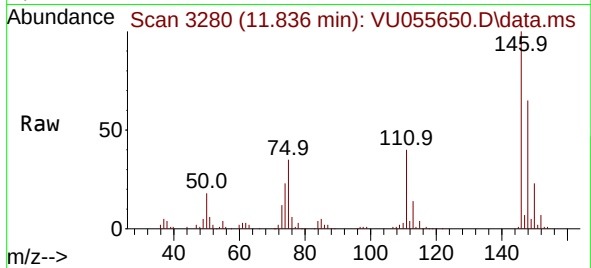




#65
1,4-Dichlorobenzene
Concen: 3.477 ug/L
RT: 11.836 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU055650.D
Acq: 03 Oct 2023 19:23

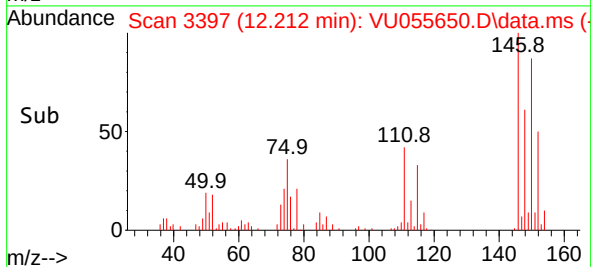
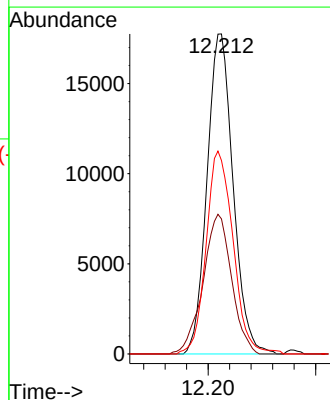
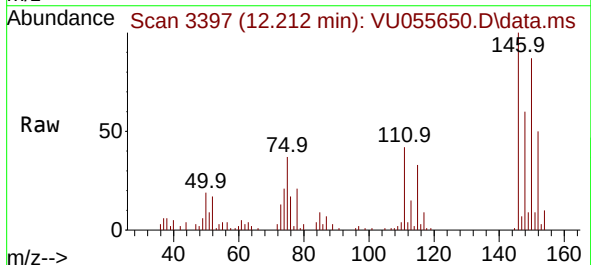
Instrument :
MSVOA_U
ClientSampleId :
DUP-1(20230928)

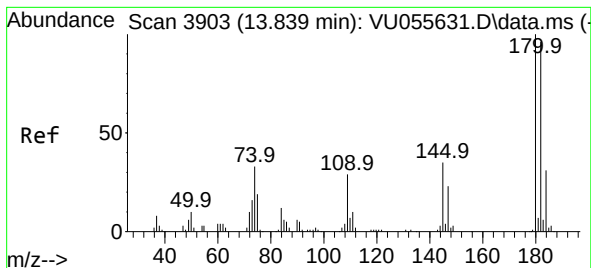
Tgt Ion:146 Resp: 96712
Ion Ratio Lower Upper
146 100
111 40.3 29.0 53.8
148 64.9 45.4 84.4



#67
1,2-Dichlorobenzene
Concen: 1.172 ug/L
RT: 12.212 min Scan# 3397
Delta R.T. 0.003 min
Lab File: VU055650.D
Acq: 03 Oct 2023 19:23

Tgt Ion:146 Resp: 29910
Ion Ratio Lower Upper
146 100
111 42.2 34.6 52.0
148 60.5 51.8 77.8





#70

1,2,4-trichlorobenzene

Concen: 18.884 ug/L

RT: 13.839 min Scan# 3903

Delta R.T. -0.000 min

Lab File: VU055650.D

Acq: 03 Oct 2023 19:23

Instrument :

MSVOA_U

ClientSampleId :

DUP-1(20230928)

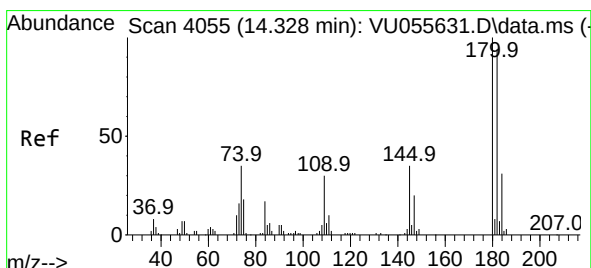
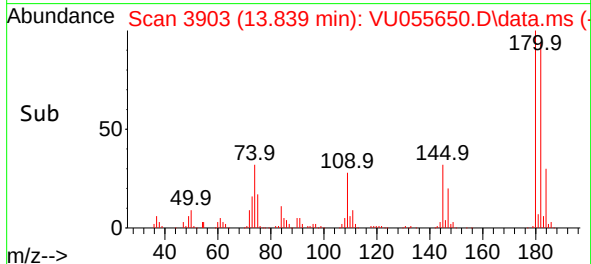
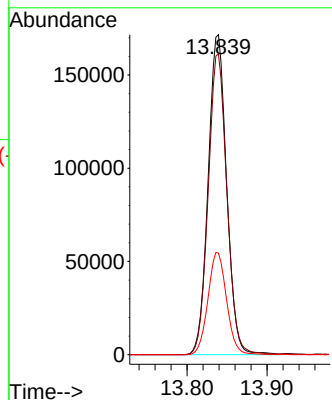
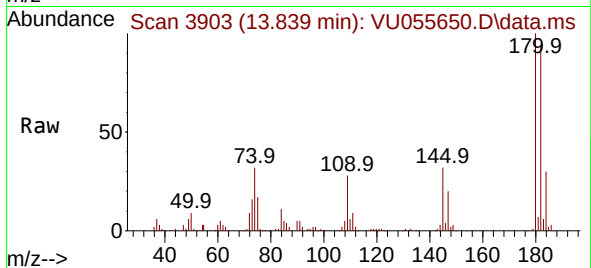
Tgt Ion:180 Resp: 275928

Ion Ratio Lower Upper

180 100

182 95.1 76.4 114.6

145 32.2 25.4 38.0



#72

1,2,3-Trichlorobenzene

Concen: 3.847 ug/L

RT: 14.328 min Scan# 4055

Delta R.T. -0.000 min

Lab File: VU055650.D

Acq: 03 Oct 2023 19:23

Tgt Ion:180 Resp: 48913

Ion Ratio Lower Upper

180 100

182 98.6 76.2 114.4

145 35.1 26.0 39.0

