

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU062123\
 Data File : VU054639.D
 Acq On : 21 Jun 2023 13:29
 Operator : MD/SY
 Sample : 03326-12
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GCA40

Quant Time: Jun 22 02:44:43 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR060723WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Jun 22 02:42:14 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	355114	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	337222	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	164311	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	123684	5.473	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	109.400%
7) Chloroethane-d5	1.911	69	96102	4.542	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.800%
11) 1,1-Dichloroethene-d2	2.563	65	45975	4.555	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.000%
20) 2-Butanone-d5	4.631	46	297075	46.753	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.500%
24) Chloroform-d	5.058	84	177827	3.764	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	75.200%
26) 1,2-Dichloroethane-d4	5.698	65	92549	4.019	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.400%
32) Benzene-d6	5.724	84	376943	4.021	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.400%
36) 1,2-Dichloropropane-d6	6.689	67	132093	4.219	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	84.400%
41) Toluene-d8	7.894	98	335787	4.036	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.800%
43) trans-1,3-Dichloroprop...	8.174	79	48344	4.441	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.800%
46) 2-Hexanone-d5	8.627	63	192751	42.202	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	84.400%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	92662	3.969	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	79.400%
66) 1,2-Dichlorobenzene-d4	12.187	152	114234	4.122	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	82.400%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	657866	16.815	ug/L	98
12) 1,1-Dichloroethene	2.576	96	206418	8.014	ug/L	95
18) trans-1,2-Dichloroethene	3.351	96	93148	3.503	ug/L	98
19) 1,1-Dichloroethane	3.866	63	83696	1.521	ug/L	98
22) cis-1,2-Dichloroethene	4.657	96	19657912	649.133	ug/L	78
25) Chloroform	5.084	83	101424	1.869	ug/L	99
27) 1,2-Dichloroethane	5.792	62	40459	1.272	ug/L	96
33) Benzene	5.772	78	99624	0.822	ug/L	100
35) Methylcyclohexane	6.557	83	1070122	22.091	ug/L #	1
37) 1,2-Dichloropropane	6.689	63	14095	0.430	ug/L #	89
42) Toluene	7.965	91	47331	0.379	ug/L	100
45) 1,1,2-Trichloroethane	8.396	97	51371	2.464	ug/L	98
47) Tetrachloroethene	8.550	164	14219	0.580	ug/L	98
48) 2-Hexanone	8.682	43	9045	0.694	ug/L #	79
49) Dibromochloromethane	8.547	129	14541	0.664	ug/L #	11
51) Chlorobenzene	9.441	112	162764	2.092	ug/L	97
53) m,p-Xylene	9.692	106	9783	0.195	ug/L	92
61) 1,2,3-Trichloropropane	11.807	75	33629	2.025	ug/L #	64
65) 1,4-Dichlorobenzene	11.830	146	35570	0.631	ug/L	99

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QLast Update : Thu Jun 22 02:42:14 2023
Response via : Initial Calibration

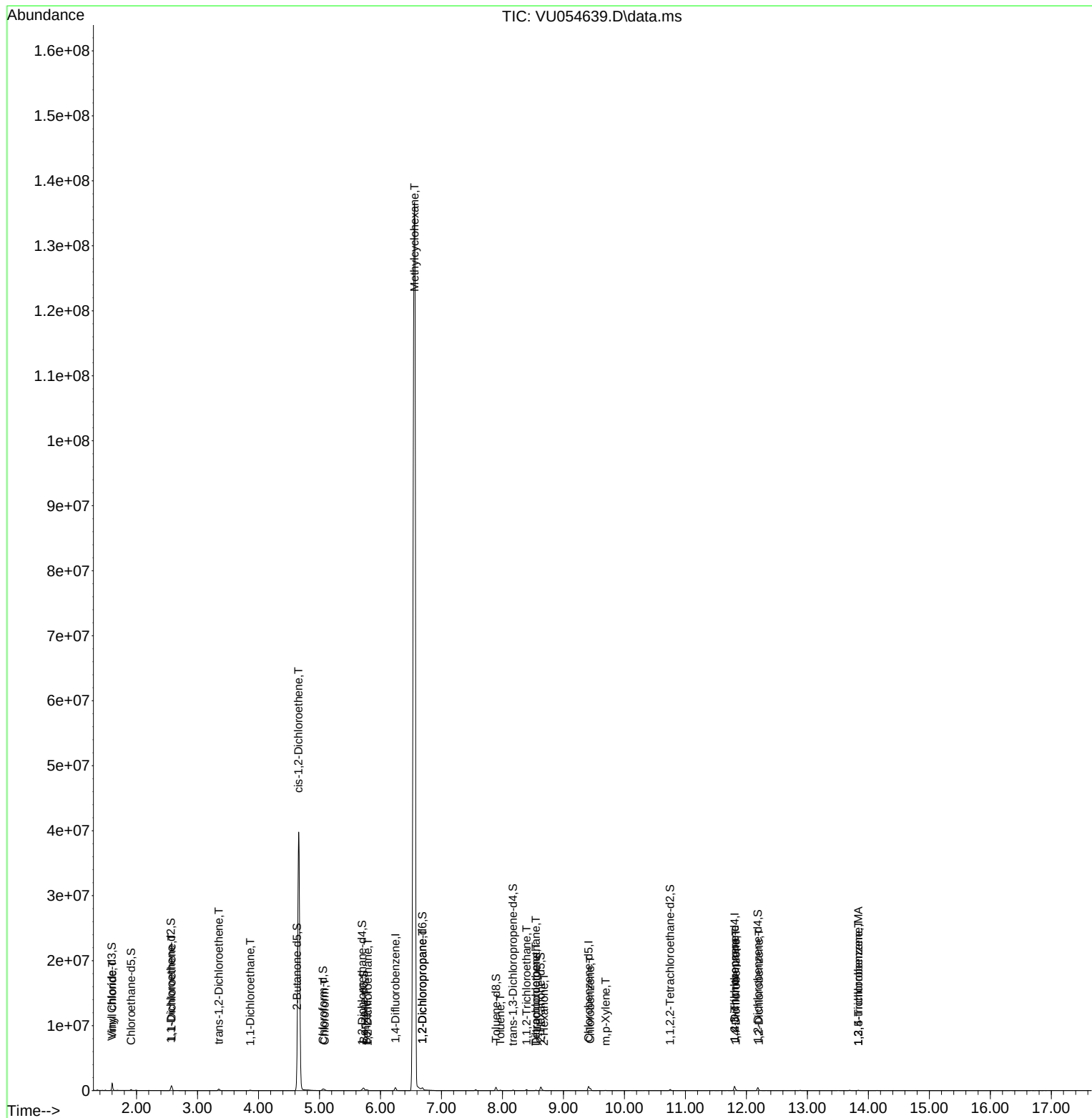
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	12.206	146	8304	0.161	ug/L #	83
69) 1,3,5-Trichlorobenzene	13.836	180	16208	0.382	ug/L	97
70) 1,2,4-trichlorobenzene	13.836	180	16208	0.462	ug/L	98

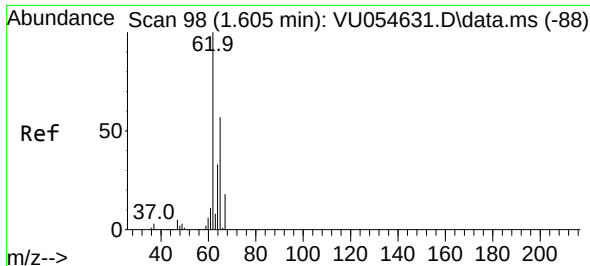
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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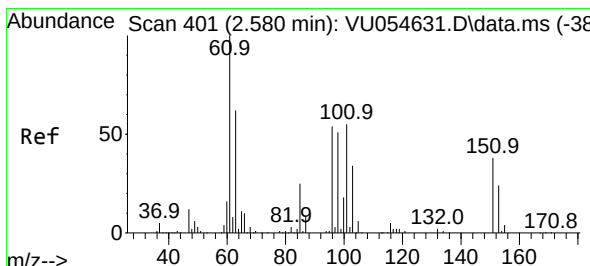
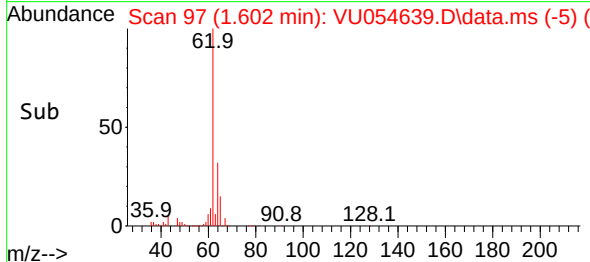
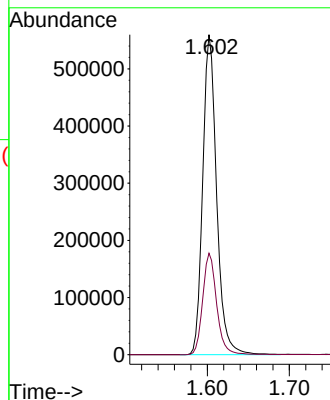
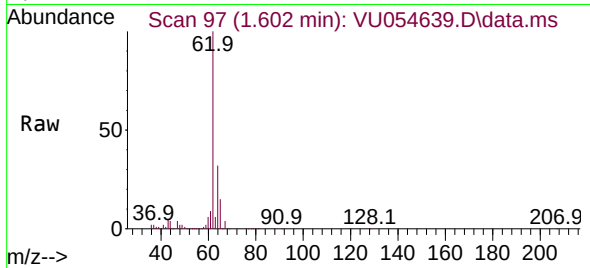




#5
 Vinyl chloride
 Concen: 16.815 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. -0.003 min
 Lab File: VU054639.D
 Acq: 21 Jun 2023 13:29

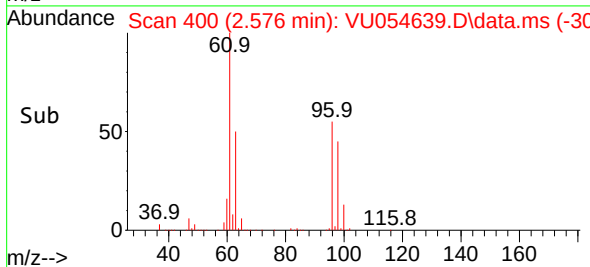
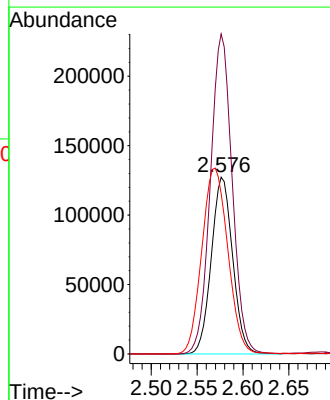
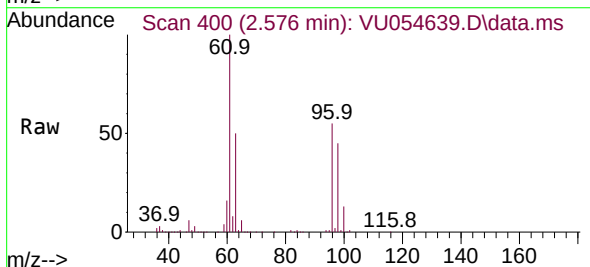
Instrument :
 MSVOA_U
 ClientSampleId :
 GCA40

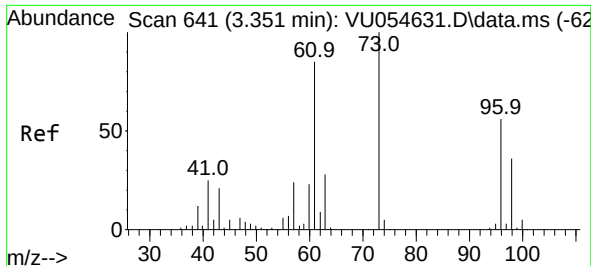
Tgt Ion: 62 Resp: 657866
 Ion Ratio Lower Upper
 62 100
 64 31.7 23.0 42.6



#12
 1,1-Dichloroethene
 Concen: 8.014 ug/L
 RT: 2.576 min Scan# 400
 Delta R.T. -0.003 min
 Lab File: VU054639.D
 Acq: 21 Jun 2023 13:29

Tgt Ion: 96 Resp: 206418
 Ion Ratio Lower Upper
 96 100
 61 181.0 119.9 222.7
 63 90.7 64.3 119.3

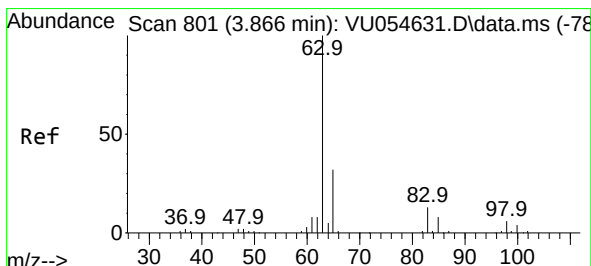
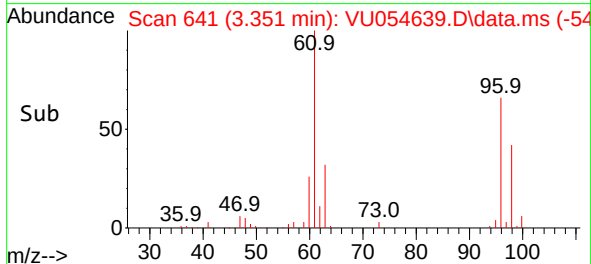
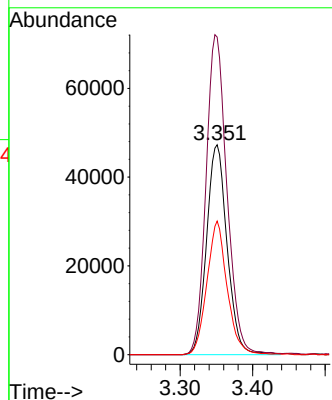
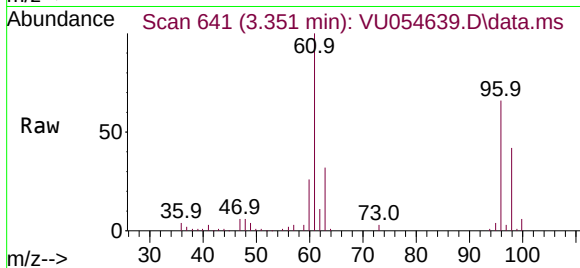




#18
trans-1,2-Dichloroethene
Concen: 3.503 ug/L
RT: 3.351 min Scan# 641
Delta R.T. -0.000 min
Lab File: VU054639.D
Acq: 21 Jun 2023 13:29

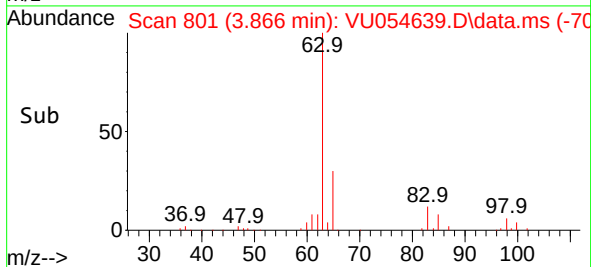
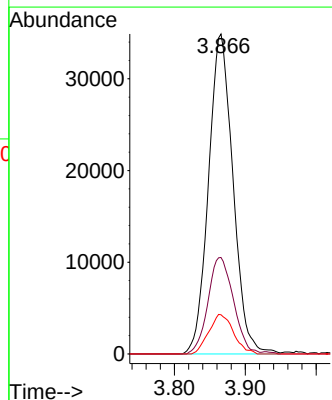
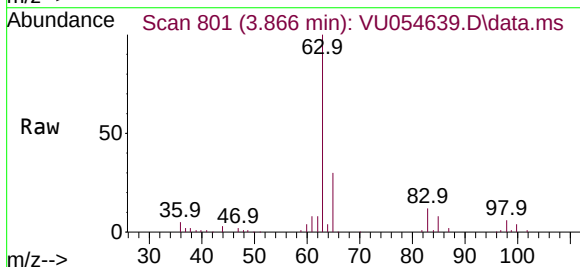
Instrument :
MSVOA_U
ClientSampleId :
GCA40

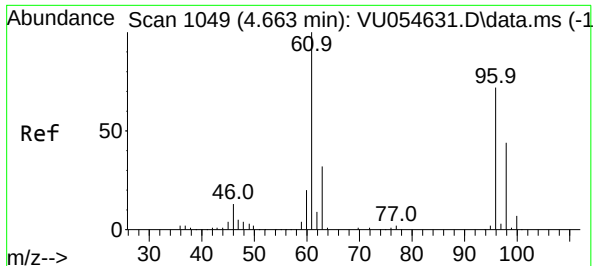
Tgt Ion: 96 Resp: 93148
Ion Ratio Lower Upper
96 100
61 151.3 104.6 194.2
98 63.7 45.4 84.4



#19
1,1-Dichloroethane
Concen: 1.521 ug/L
RT: 3.866 min Scan# 801
Delta R.T. -0.000 min
Lab File: VU054639.D
Acq: 21 Jun 2023 13:29

Tgt Ion: 63 Resp: 83696
Ion Ratio Lower Upper
63 100
65 30.5 22.2 41.2
83 12.3 9.0 16.6





#22

cis-1,2-Dichloroethene

Concen: 649.133 ug/L

RT: 4.657 min Scan# 1047

Delta R.T. -0.007 min

Lab File: VU054639.D

Acq: 21 Jun 2023 13:29

Instrument :

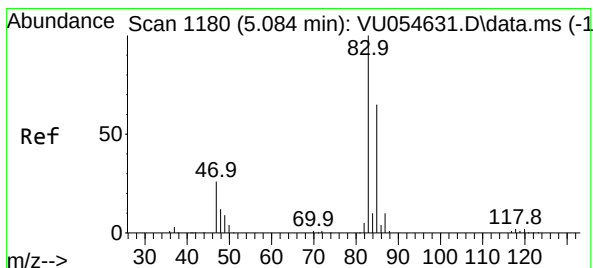
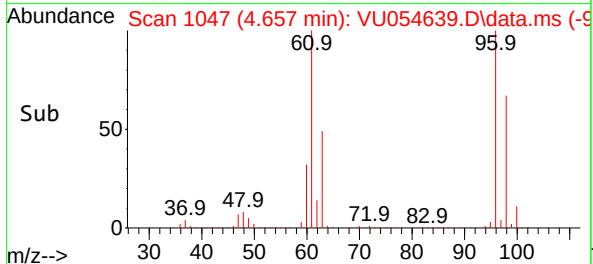
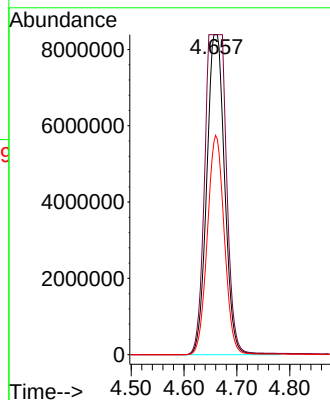
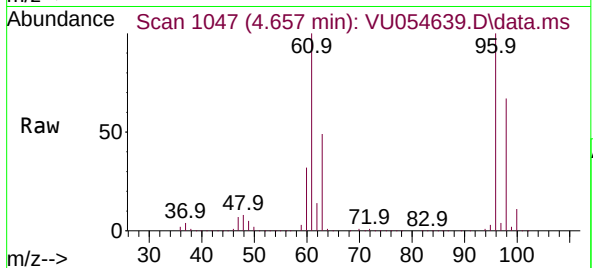
MSVOA_U

ClientSampleId :

GCA40

Tgt Ion: 96 Resp:19657912

Ion	Ratio	Lower	Upper
96	100		
61	100.0	96.5	179.1
98	66.5	44.9	83.3



#25

Chloroform

Concen: 1.869 ug/L

RT: 5.084 min Scan# 1180

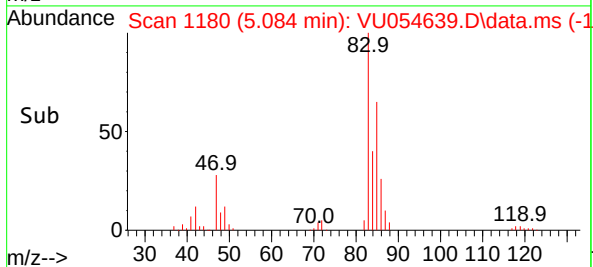
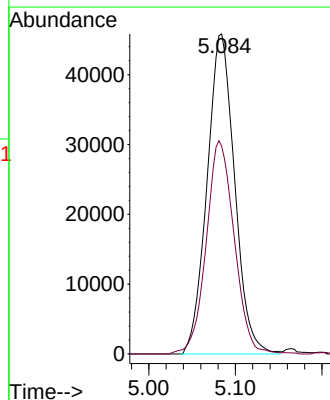
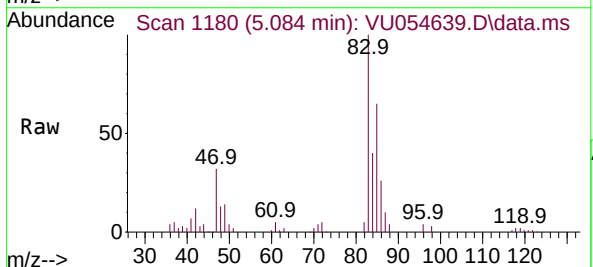
Delta R.T. -0.000 min

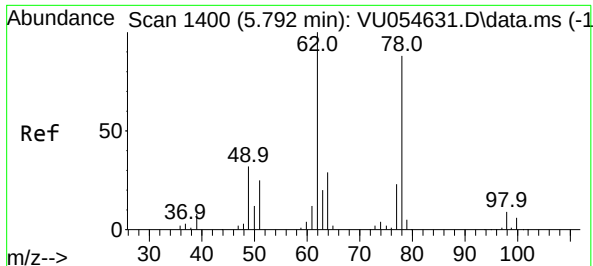
Lab File: VU054639.D

Acq: 21 Jun 2023 13:29

Tgt Ion: 83 Resp: 101424

Ion	Ratio	Lower	Upper
83	100		
85	64.9	44.7	82.9

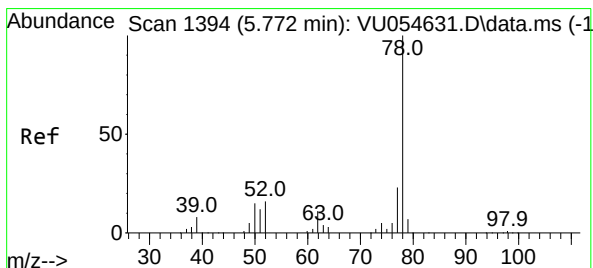
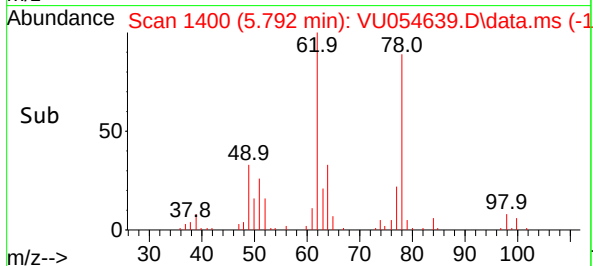
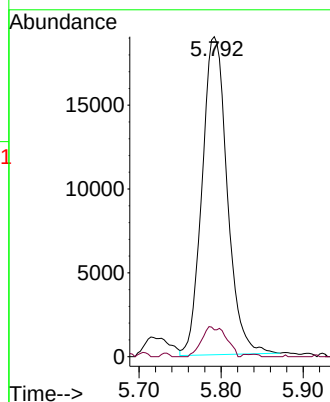
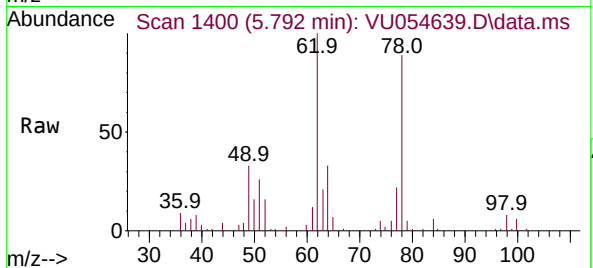




#27
1,2-Dichloroethane
Concen: 1.272 ug/L
RT: 5.792 min Scan# 1400
Delta R.T. -0.000 min
Lab File: VU054639.D
Acq: 21 Jun 2023 13:29

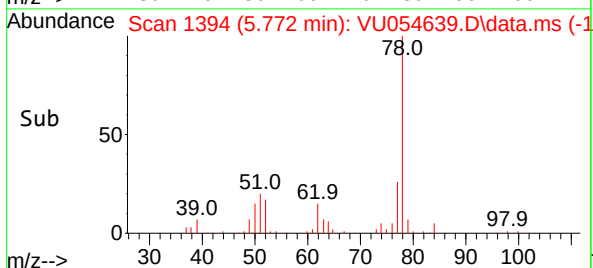
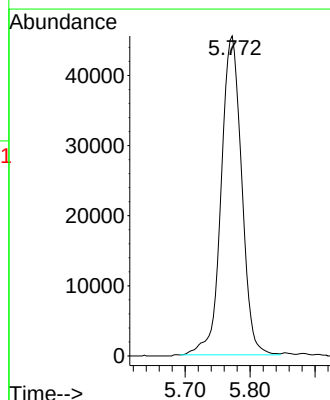
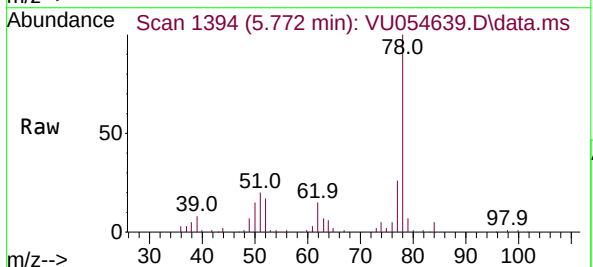
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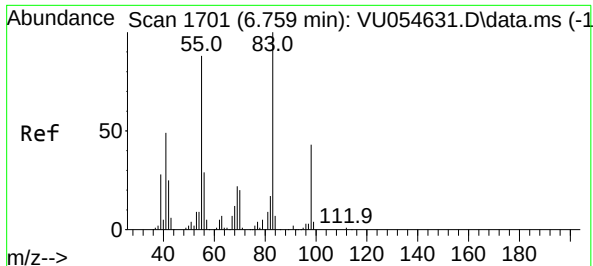
Tgt Ion: 62 Resp: 40459
Ion Ratio Lower Upper
62 100
98 8.4 7.8 11.6



#33
Benzene
Concen: 0.822 ug/L
RT: 5.772 min Scan# 1394
Delta R.T. -0.000 min
Lab File: VU054639.D
Acq: 21 Jun 2023 13:29

Tgt Ion: 78 Resp: 99624





#35

Methylcyclohexane

Concen: 22.091 ug/L

RT: 6.557 min Scan# 1

Delta R.T. -0.203 min

Lab File: VU054639.D

Acq: 21 Jun 2023 13:29

Instrument :

MSVOA_U

ClientSampleId :

GCA40

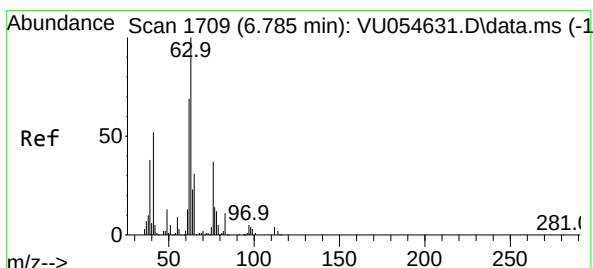
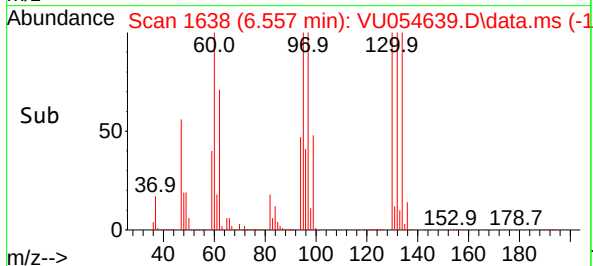
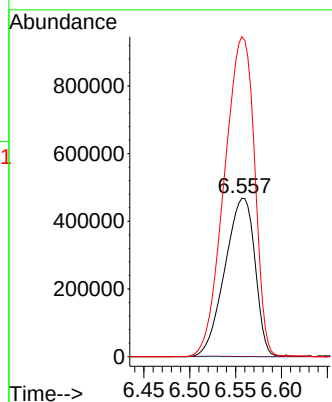
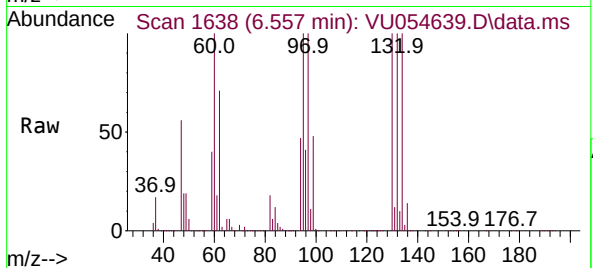
Tgt Ion: 83 Resp: 1070122

Ion Ratio Lower Upper

83 100

55 0.3 67.1 100.7#

98 203.1 35.1 52.7#



#37

1,2-Dichloropropane

Concen: 0.430 ug/L

RT: 6.689 min Scan# 1679

Delta R.T. -0.097 min

Lab File: VU054639.D

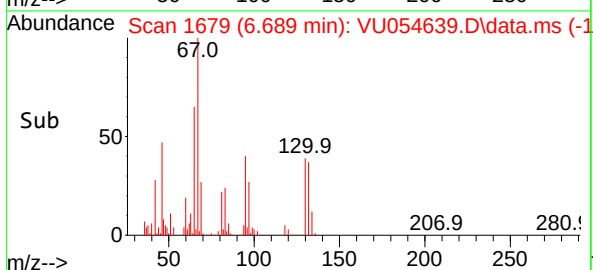
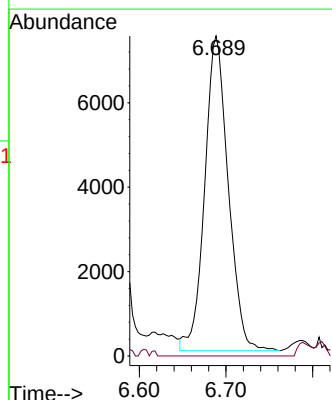
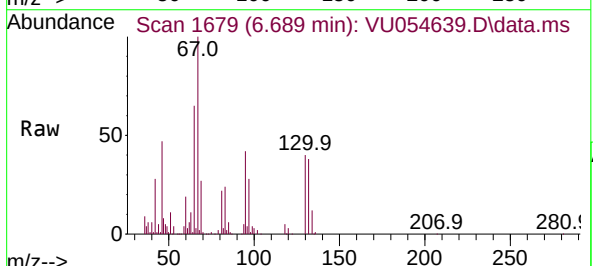
Acq: 21 Jun 2023 13:29

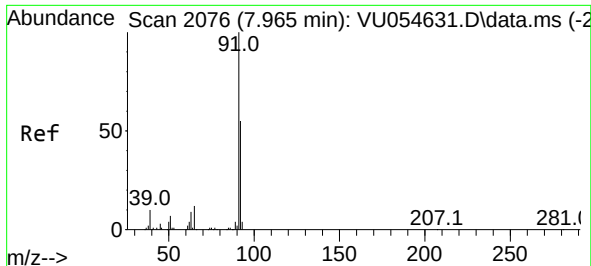
Tgt Ion: 63 Resp: 14095

Ion Ratio Lower Upper

63 100

112 0.3 3.0 4.6#





#42

Toluene

Concen: 0.379 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. -0.000 min

Lab File: VU054639.D

Acq: 21 Jun 2023 13:29

Instrument :

MSVOA_U

ClientSampleId :

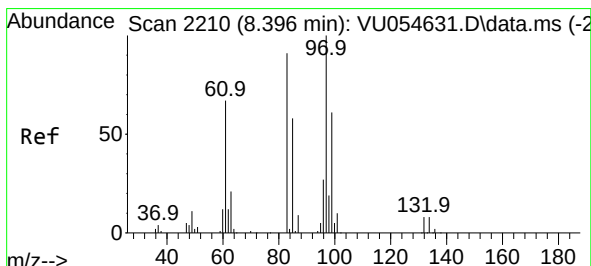
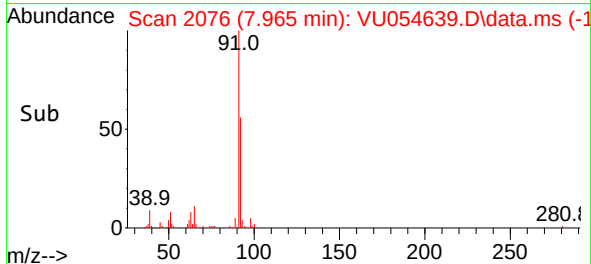
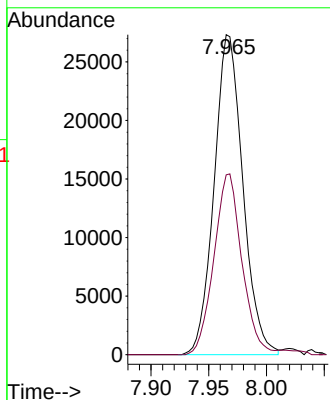
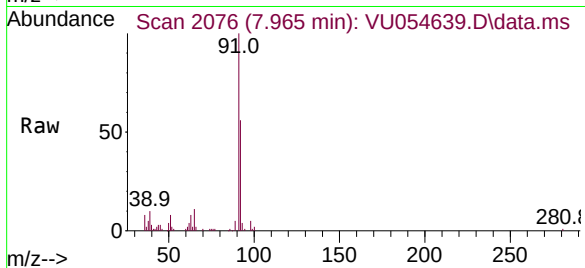
GCA40

Tgt Ion: 91 Resp: 47331

Ion Ratio Lower Upper

91 100

92 56.2 39.5 73.4



#45

1,1,2-Trichloroethane

Concen: 2.464 ug/L

RT: 8.396 min Scan# 2210

Delta R.T. -0.000 min

Lab File: VU054639.D

Acq: 21 Jun 2023 13:29

Tgt Ion: 97 Resp: 51371

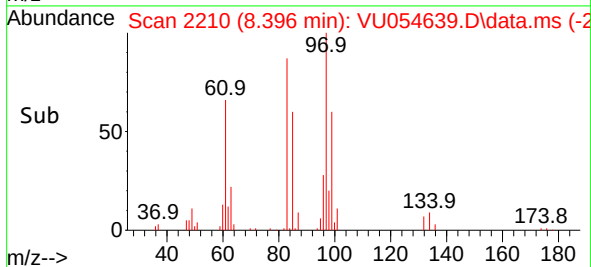
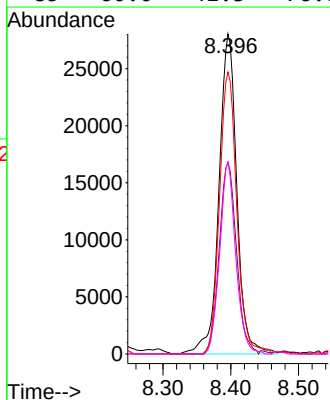
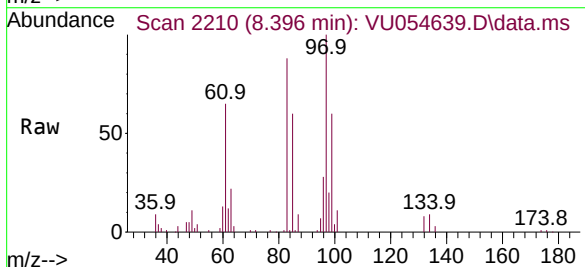
Ion Ratio Lower Upper

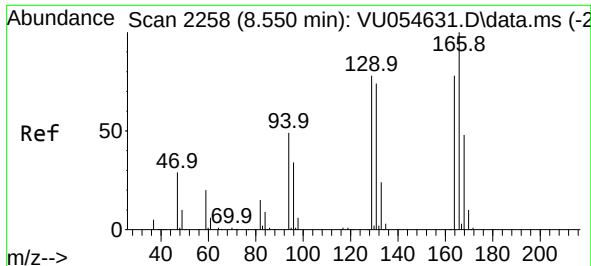
97 100

99 59.8 43.0 80.0

83 88.1 63.8 118.6

85 60.0 41.3 76.7

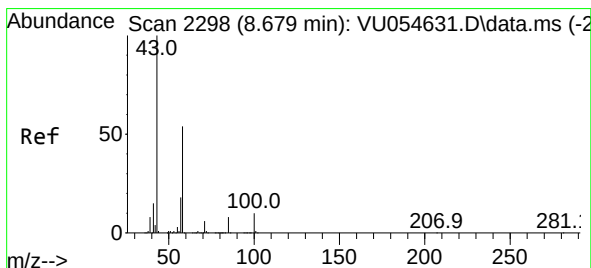
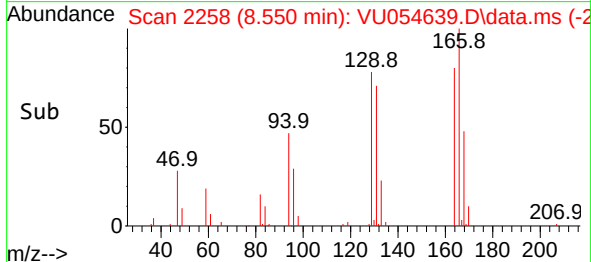
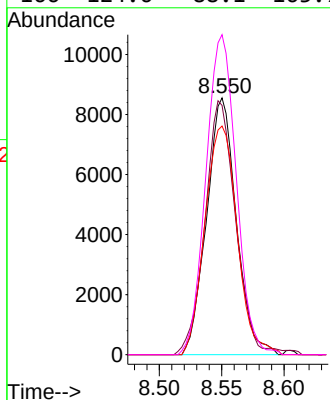
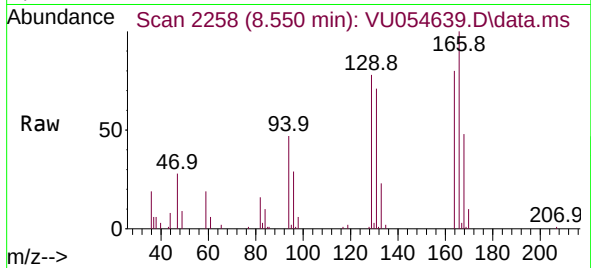




#47
Tetrachloroethene
Concen: 0.580 ug/L
RT: 8.550 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU054639.D
Acq: 21 Jun 2023 13:29

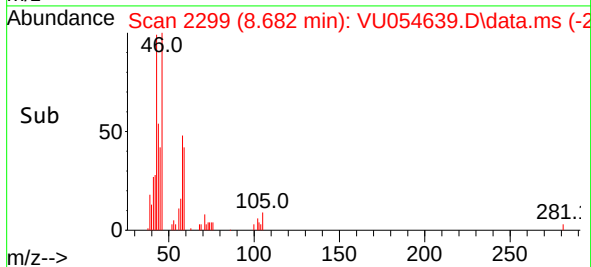
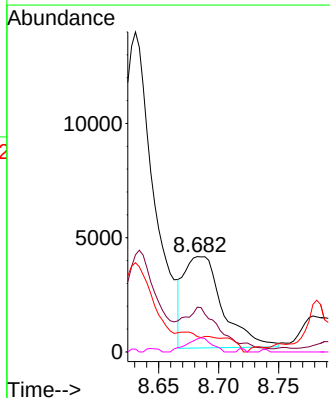
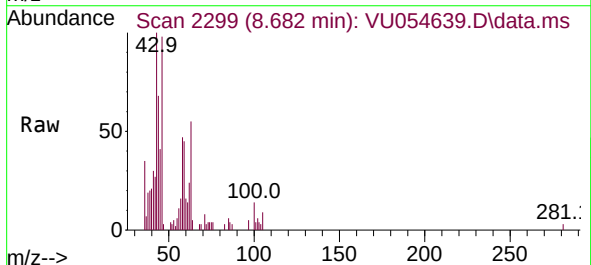
Instrument :
MSVOA_U
ClientSampleId :
GCA40

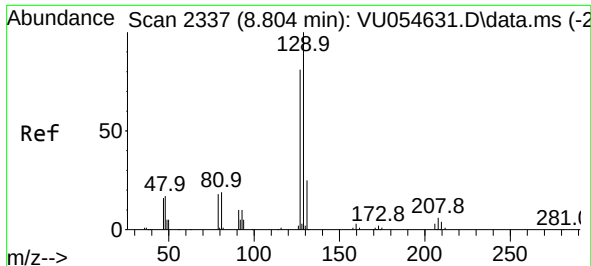
Tgt Ion:164	Resp:	14219
Ion	Ratio	Lower Upper
164	100	
129	97.1	67.7 125.7
131	89.0	64.6 120.0
166	124.6	88.1 163.7



#48
2-Hexanone
Concen: 0.694 ug/L
RT: 8.682 min Scan# 2299
Delta R.T. 0.003 min
Lab File: VU054639.D
Acq: 21 Jun 2023 13:29

Tgt Ion: 43	Resp:	9045
Ion	Ratio	Lower Upper
43	100	
58	43.7	45.2 67.8#
57	0.0	15.8 23.6#
100	9.8	8.7 13.1

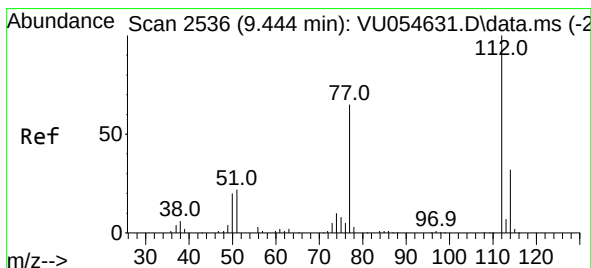
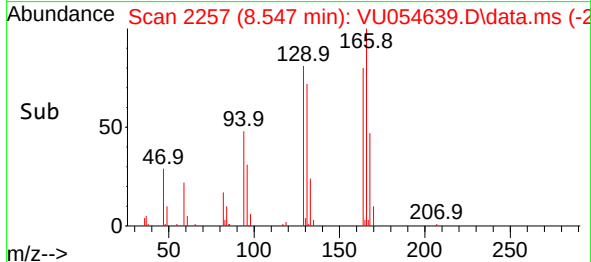
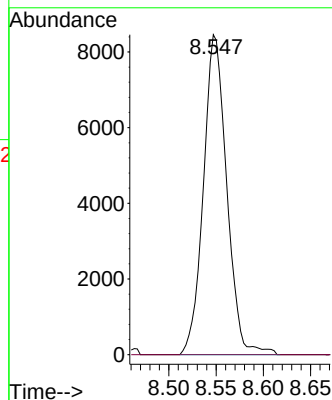
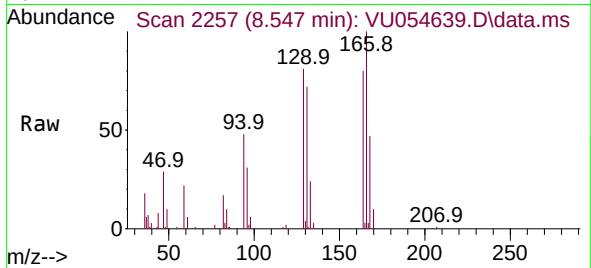




#49
Dibromochloromethane
Concen: 0.664 ug/L
RT: 8.547 min Scan# 21
Delta R.T. -0.257 min
Lab File: VU054639.D
Acq: 21 Jun 2023 13:29

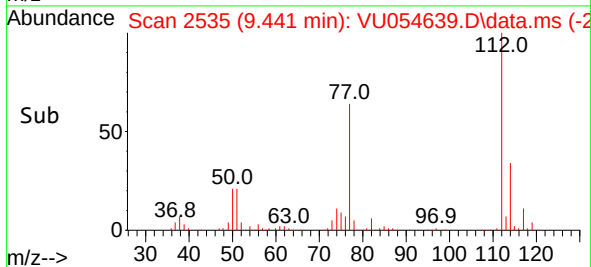
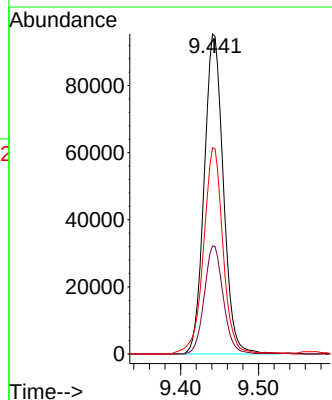
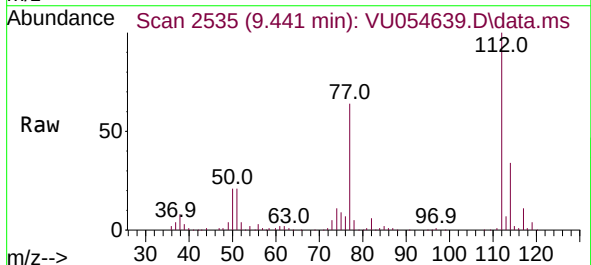
Instrument :
MSVOA_U
ClientSampleId :
GCA40

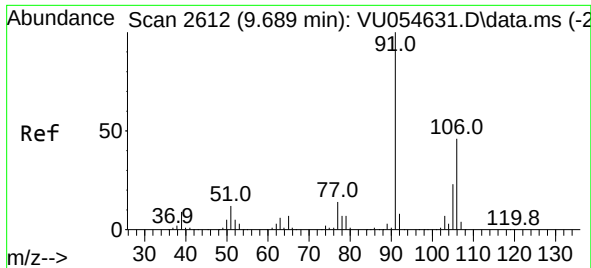
Tgt Ion:129 Resp: 14541
Ion Ratio Lower Upper
129 100
127 0.0 53.2 98.8#



#51
Chlorobenzene
Concen: 2.092 ug/L
RT: 9.441 min Scan# 2535
Delta R.T. -0.003 min
Lab File: VU054639.D
Acq: 21 Jun 2023 13:29

Tgt Ion:112 Resp: 162764
Ion Ratio Lower Upper
112 100
114 33.7 22.7 42.1
77 64.5 49.8 74.8

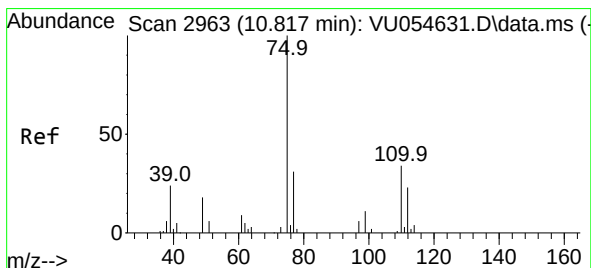
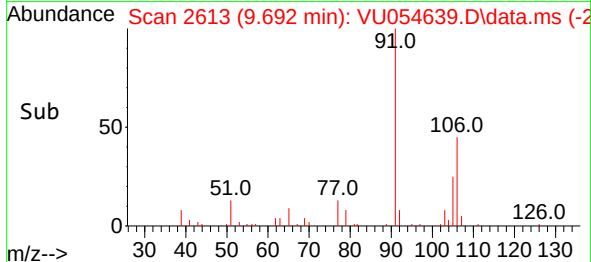
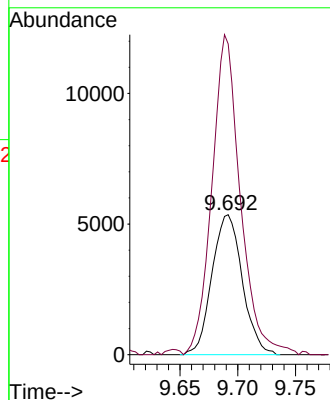
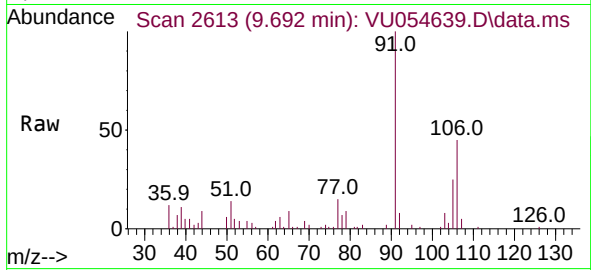




#53
m,p-Xylene
Concen: 0.195 ug/L
RT: 9.692 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU054639.D
Acq: 21 Jun 2023 13:29

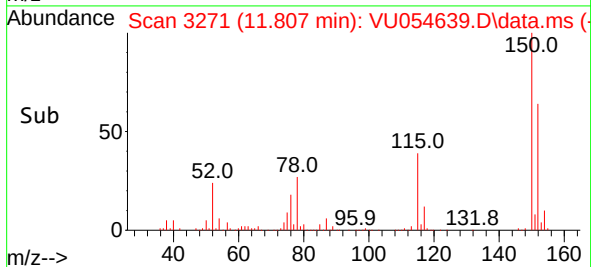
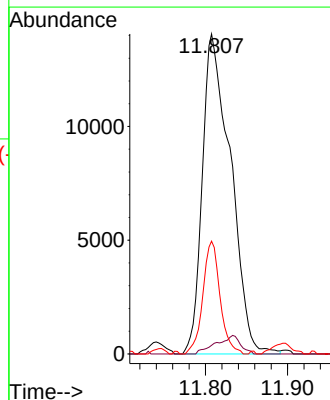
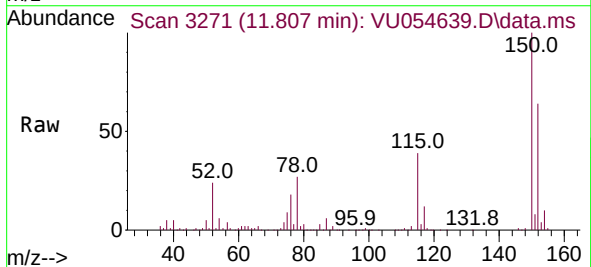
Instrument :
MSVOA_U
ClientSampleId :
GCA40

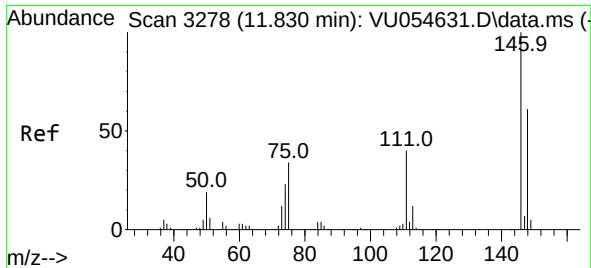
Tgt Ion:106 Resp: 9783
Ion Ratio Lower Upper
106 100
91 222.1 147.0 273.0



#61
1,2,3-Trichloropropane
Concen: 2.025 ug/L
RT: 11.807 min Scan# 3271
Delta R.T. 0.990 min
Lab File: VU054639.D
Acq: 21 Jun 2023 13:29

Tgt Ion: 75 Resp: 33629
Ion Ratio Lower Upper
75 100
110 5.0 28.0 42.0#
77 21.5 25.4 38.2#

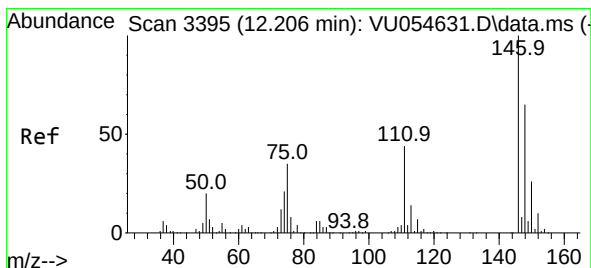
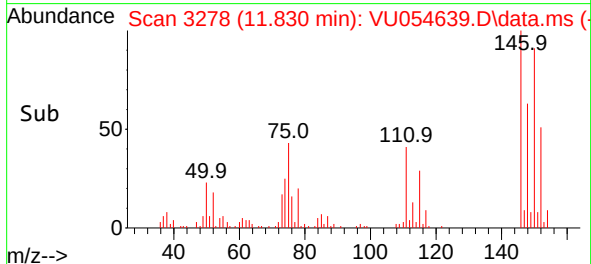
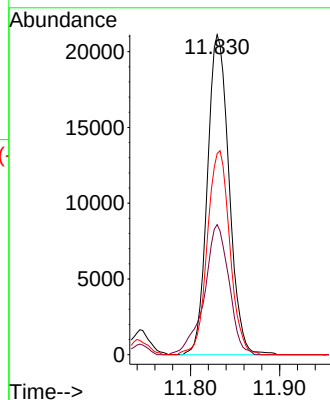
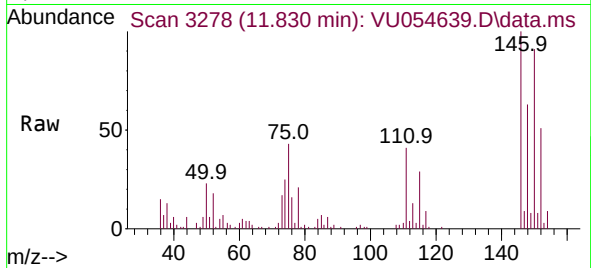




#65
1,4-Dichlorobenzene
Concen: 0.631 ug/L
RT: 11.830 min Scan# 311
Delta R.T. -0.000 min
Lab File: VU054639.D
Acq: 21 Jun 2023 13:29

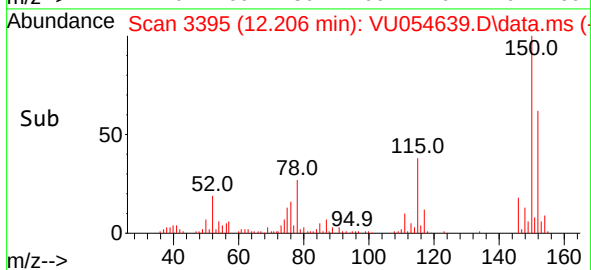
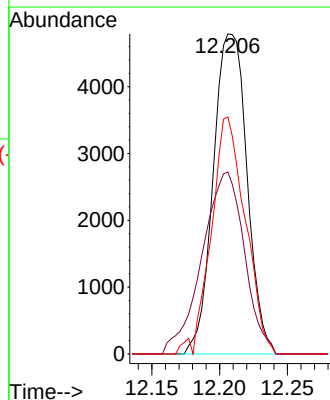
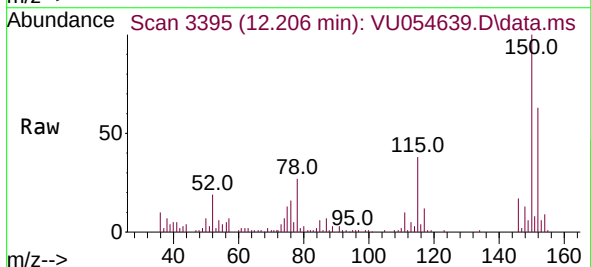
Instrument :
MSVOA_U
ClientSampleId :
GCA40

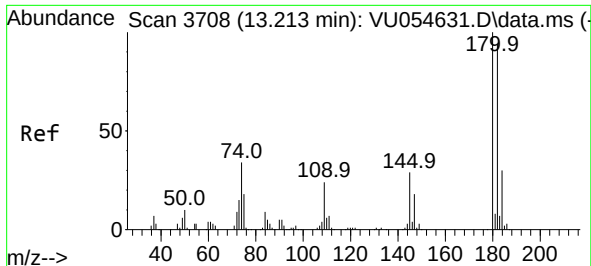
Tgt Ion:146 Resp: 35570
Ion Ratio Lower Upper
146 100
111 40.6 28.0 52.0
148 62.9 44.7 83.1



#67
1,2-Dichlorobenzene
Concen: 0.161 ug/L
RT: 12.206 min Scan# 3395
Delta R.T. -0.000 min
Lab File: VU054639.D
Acq: 21 Jun 2023 13:29

Tgt Ion:146 Resp: 8304
Ion Ratio Lower Upper
146 100
111 56.8 34.5 51.7#
148 74.0 50.9 76.3





#69

1,3,5-Trichlorobenzene

Concen: 0.382 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.624 min

Lab File: VU054639.D

Acq: 21 Jun 2023 13:29

Instrument :

MSVOA_U

ClientSampleId :

GCA40

Tgt Ion:180 Resp: 16208

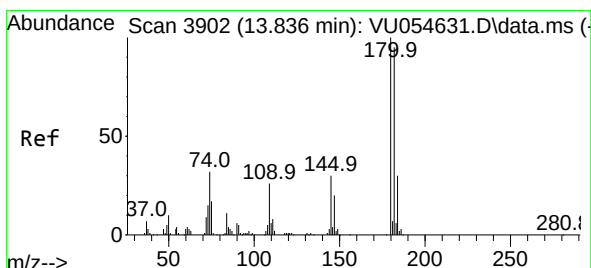
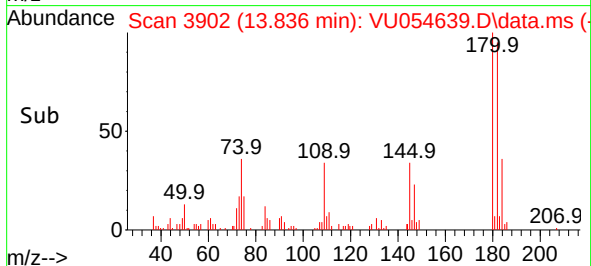
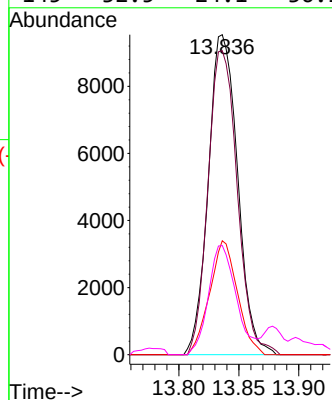
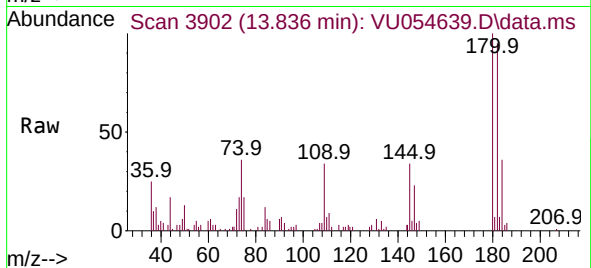
Ion Ratio Lower Upper

180 100

182 94.7 75.0 112.6

184 33.8 24.1 36.1

145 32.5 24.1 36.1



#70

1,2,4-trichlorobenzene

Concen: 0.462 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. -0.000 min

Lab File: VU054639.D

Acq: 21 Jun 2023 13:29

Tgt Ion:180 Resp: 16208

Ion Ratio Lower Upper

180 100

182 94.7 76.6 114.8

145 32.5 24.0 36.0

