

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU062023\
 Data File : VU054615.D
 Acq On : 20 Jun 2023 16:45
 Operator : MD/SY
 Sample : 03323-13
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GCA41

Quant Time: Jun 21 04:03:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR060723WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Jun 21 04:02:18 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	321781	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	310153	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	155528	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	125985	6.152	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	123.000%
7) Chloroethane-d5	1.911	69	97662	5.094	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	101.800%
11) 1,1-Dichloroethene-d2	2.563	65	46285	5.061	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	101.200%
20) 2-Butanone-d5	4.624	46	255842	44.435	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	88.860%
24) Chloroform-d	5.058	84	181311	4.236	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.800%
26) 1,2-Dichloroethane-d4	5.698	65	91989	4.408	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.200%
32) Benzene-d6	5.721	84	385486	4.471	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.400%
36) 1,2-Dichloropropane-d6	6.685	67	125933	4.374	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.400%
41) Toluene-d8	7.894	98	327350	4.278	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.600%
43) trans-1,3-Dichloroprop...	8.177	79	47432	4.737	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.800%
46) 2-Hexanone-d5	8.627	63	185487	44.157	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.320%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	88705	4.131	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	82.600%
66) 1,2-Dichlorobenzene-d4	12.187	152	116922	4.457	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	89.200%
Target Compounds						
					Qvalue	
3) Chloromethane	1.518	50	137647	3.985	ug/L	98
6) Bromomethane	1.856	94	58887	3.021	ug/L	100
9) Trichlorofluoromethane	2.136	101	312412	7.168	ug/L	99
12) 1,1-Dichloroethene	2.576	96	82942	3.554	ug/L #	73
13) Acetone	2.631	43	281783	51.906	ug/L	97
14) Carbon disulfide	2.788	76	399381	5.771	ug/L	99
16) Methylene chloride	3.042	84	81790	2.492	ug/L	95
17) Methyl tert-butyl Ether	3.361	73	477784	8.294	ug/L	98
19) 1,1-Dichloroethane	3.862	63	463821	9.301	ug/L	99
21) 2-Butanone	4.698	43	742522	105.389	ug/L	97
27) 1,2-Dichloroethane	5.788	62	216212	7.503	ug/L	98
29) 1,1,1-Trichloroethane	5.309	97	352261	8.376	ug/L	97
30) Cyclohexane	5.383	56	515572	11.255	ug/L	97
34) Trichloroethene	6.538	95	145156	4.925	ug/L	94
35) Methylcyclohexane	6.759	83	267658	6.008	ug/L	96
37) 1,2-Dichloropropane	6.788	63	66390	2.203	ug/L	99
42) Toluene	7.965	91	980668	8.543	ug/L	100
47) Tetrachloroethene	8.547	164	173229	7.678	ug/L	100
48) 2-Hexanone	8.679	43	634615	52.955	ug/L	97

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

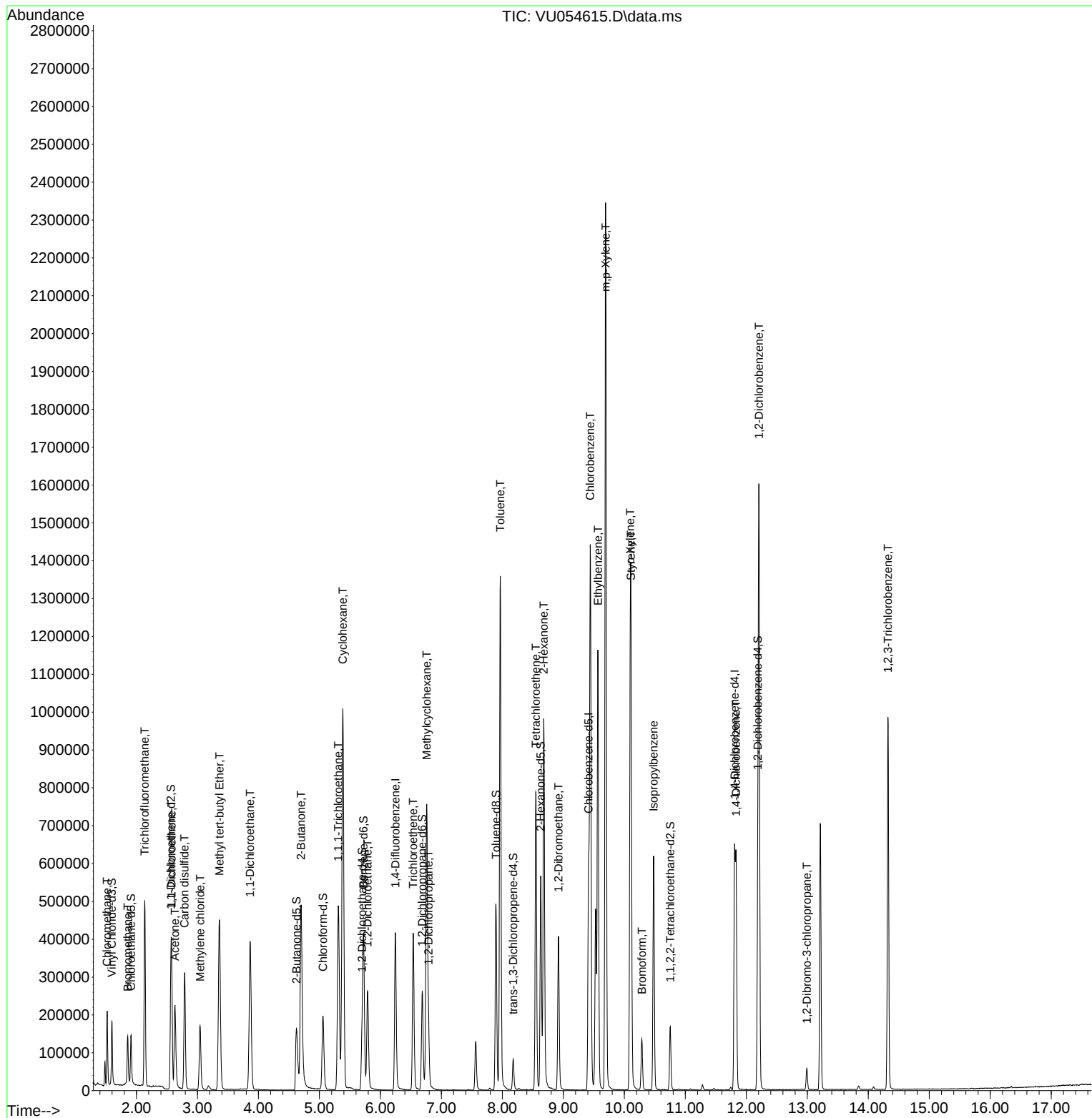
50) 1,2-Dibromoethane	8.920	107	271412	15.419	ug/L	100
51) Chlorobenzene	9.441	112	734889	10.270	ug/L	97
52) Ethylbenzene	9.566	91	801976	6.397	ug/L	98
53) m,p-Xylene	9.692	106	609146	13.227	ug/L	98
54) o-Xylene	10.097	106	237526	5.333	ug/L	97
55) Styrene	10.110	104	400518	5.358	ug/L	99
59) Bromoform	10.287	173	61829	5.537	ug/L	97
60) Isopropylbenzene	10.479	105	385671	3.390	ug/L	99
65) 1,4-Dichlorobenzene	11.833	146	225926	4.233	ug/L	99
67) 1,2-Dichlorobenzene	12.206	146	587123	12.004	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.991	75	15212	4.404	ug/L	84
72) 1,2,3-Trichlorobenzene	14.322	180	292372	10.257	ug/L	99

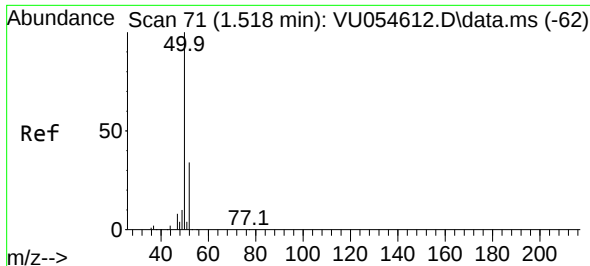
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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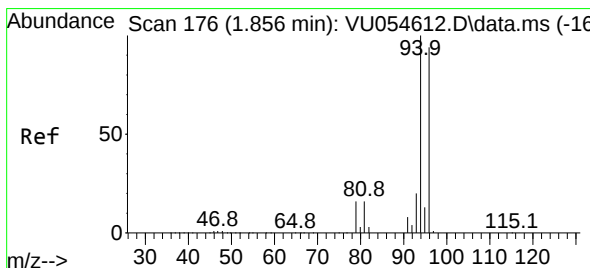
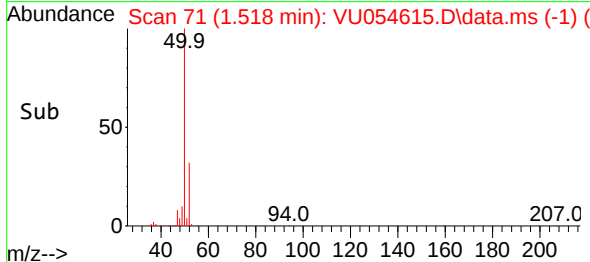
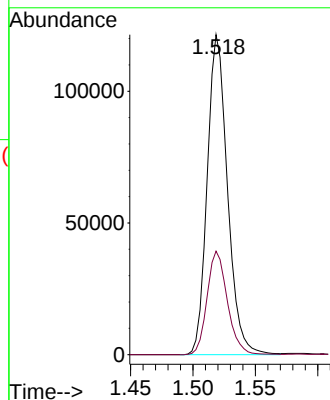
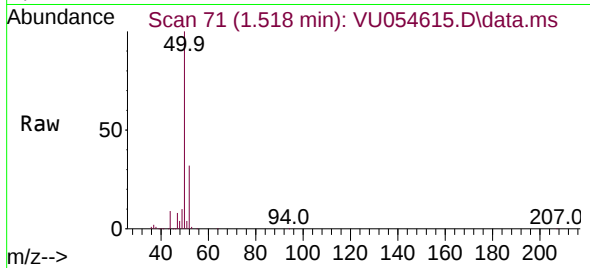




#3
Chloromethane
Concen: 3.985 ug/L
RT: 1.518 min Scan# 71
Delta R.T. 0.000 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

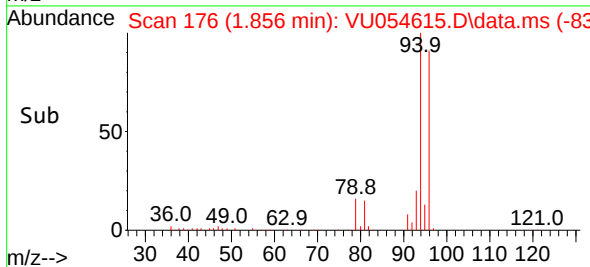
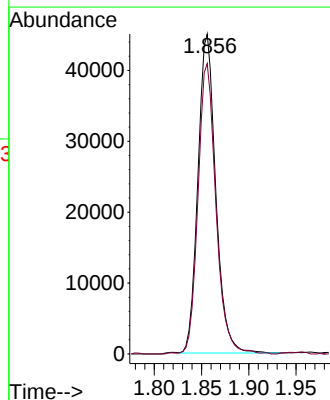
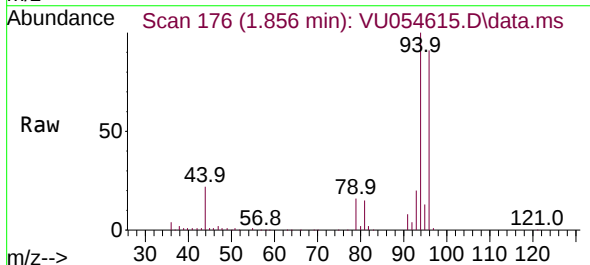
Instrument :
MSVOA_U
ClientSampleId :
GCA41

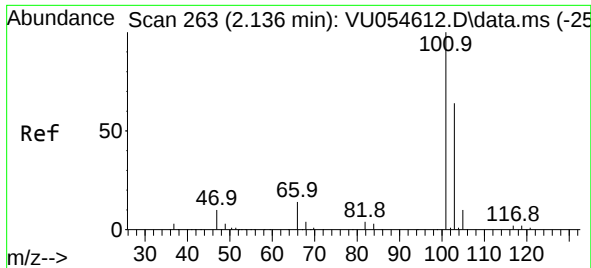
Tgt Ion: 50 Resp: 137647
Ion Ratio Lower Upper
50 100
52 32.3 23.4 43.4



#6
Bromomethane
Concen: 3.021 ug/L
RT: 1.856 min Scan# 176
Delta R.T. 0.000 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

Tgt Ion: 94 Resp: 58887
Ion Ratio Lower Upper
94 100
96 90.8 63.6 118.2

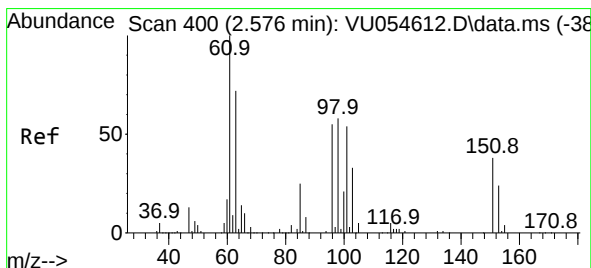
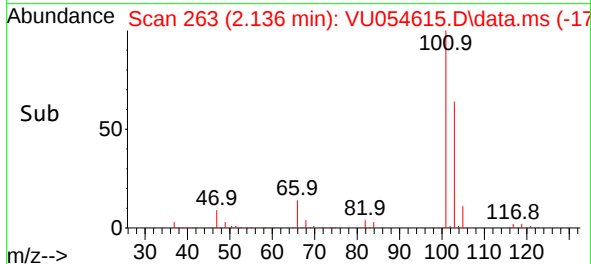
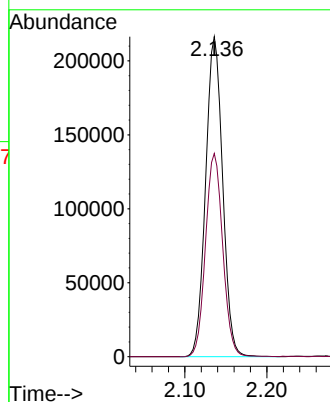
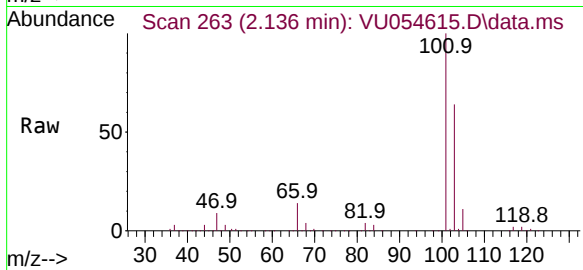




#9
 Trichlorofluoromethane
 Concen: 7.168 ug/L
 RT: 2.136 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VU054615.D
 Acq: 20 Jun 2023 16:45

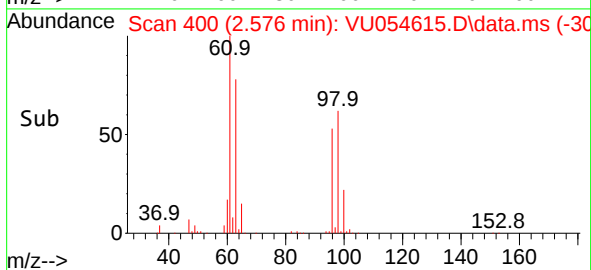
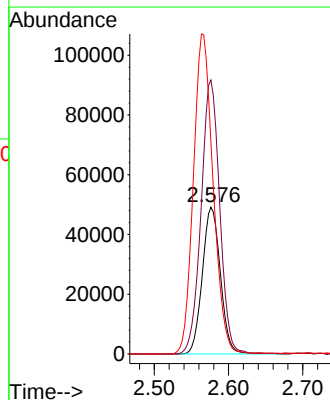
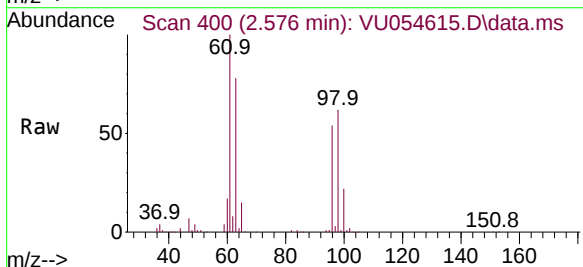
Instrument :
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 ClientSampleId :
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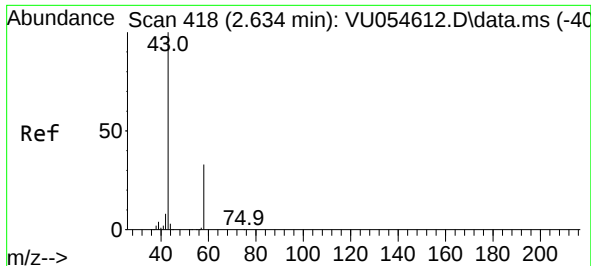
Tgt Ion:101 Resp: 312412
 Ion Ratio Lower Upper
 101 100
 103 64.2 50.6 75.8



#12
 1,1-Dichloroethene
 Concen: 3.554 ug/L
 RT: 2.576 min Scan# 400
 Delta R.T. 0.000 min
 Lab File: VU054615.D
 Acq: 20 Jun 2023 16:45

Tgt Ion: 96 Resp: 82942
 Ion Ratio Lower Upper
 96 100
 61 186.7 119.9 222.7
 63 144.7 64.3 119.3#





#13

Acetone

Concen: 51.906 ug/L

RT: 2.631 min Scan# 41

Delta R.T. -0.003 min

Lab File: VU054615.D

Acq: 20 Jun 2023 16:45

Instrument :

MSVOA_U

ClientSampleId :

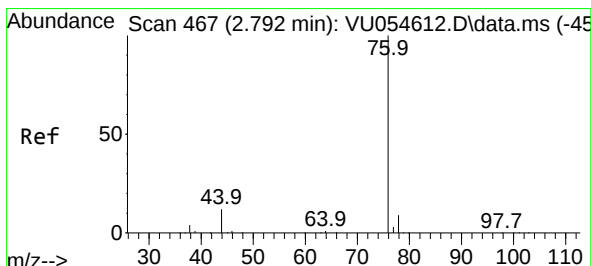
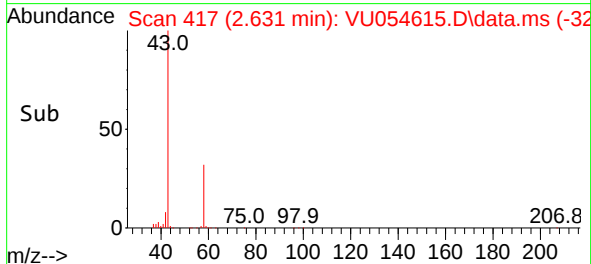
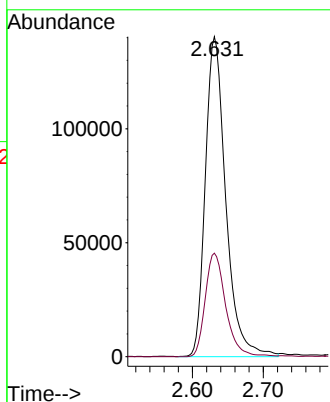
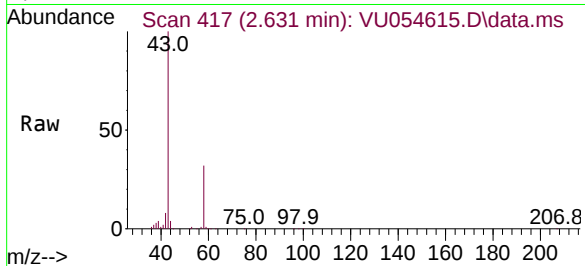
GCA41

Tgt Ion: 43 Resp: 281783

Ion Ratio Lower Upper

43 100

58 32.0 0.0 67.2



#14

Carbon disulfide

Concen: 5.771 ug/L

RT: 2.788 min Scan# 466

Delta R.T. -0.003 min

Lab File: VU054615.D

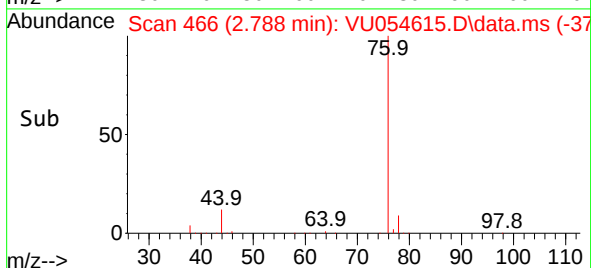
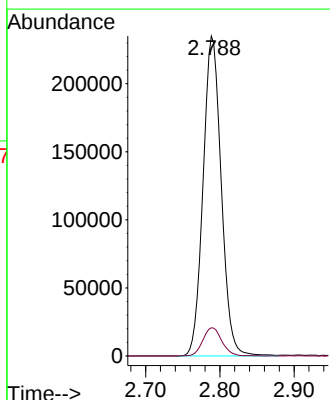
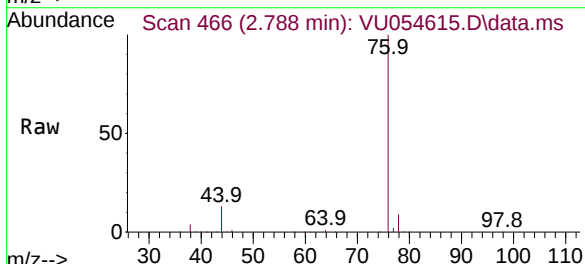
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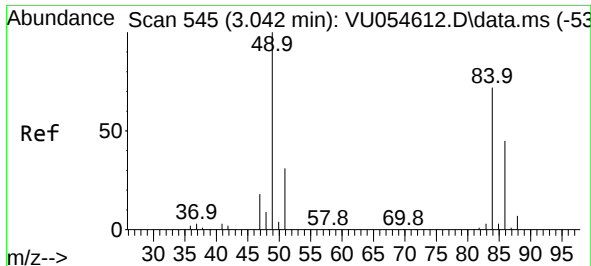
Tgt Ion: 76 Resp: 399381

Ion Ratio Lower Upper

76 100

78 8.8 7.4 11.0

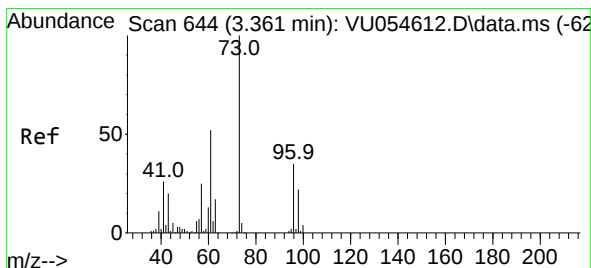
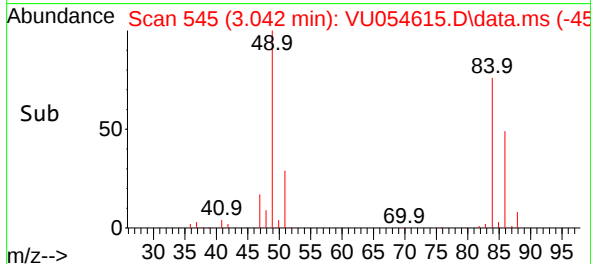
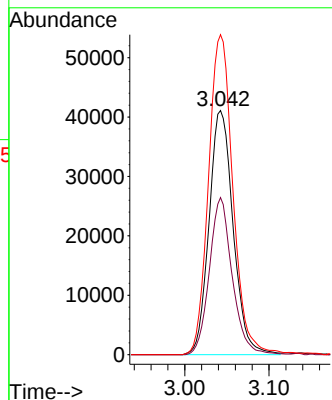
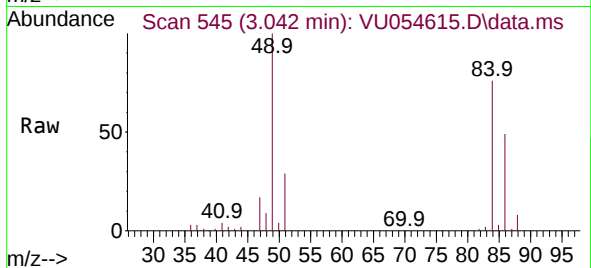




#16
Methylene chloride
Concen: 2.492 ug/L
RT: 3.042 min Scan# 545
Delta R.T. 0.000 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

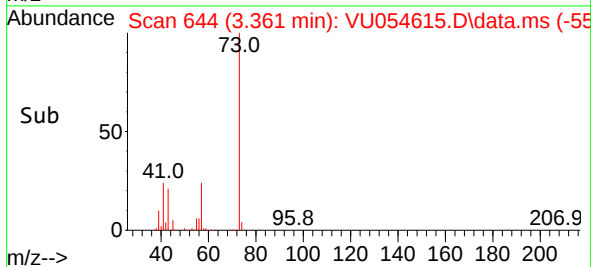
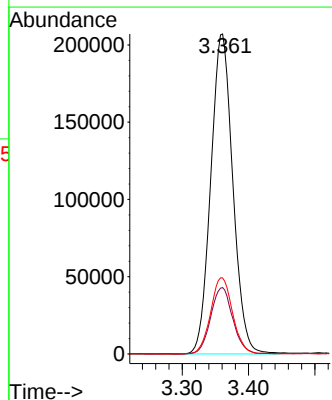
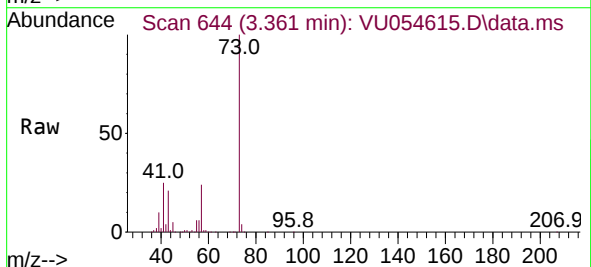
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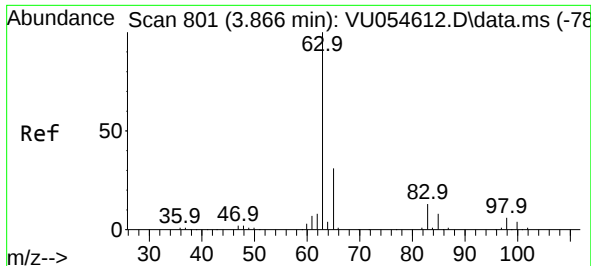
Tgt Ion: 84 Resp: 81790
Ion Ratio Lower Upper
84 100
86 64.3 43.9 81.5
49 131.0 86.1 159.9



#17
Methyl tert-butyl Ether
Concen: 8.294 ug/L
RT: 3.361 min Scan# 644
Delta R.T. 0.000 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

Tgt Ion: 73 Resp: 477784
Ion Ratio Lower Upper
73 100
43 20.9 15.7 23.5
57 23.8 18.6 28.0





#19

1,1-Dichloroethane

Concen: 9.301 ug/L

RT: 3.862 min Scan# 801

Delta R.T. -0.003 min

Lab File: VU054615.D

Acq: 20 Jun 2023 16:45

Instrument :

MSVOA_U

ClientSampleId :

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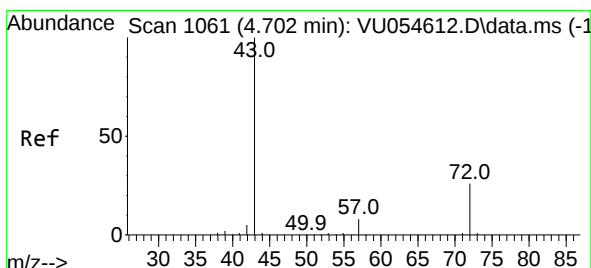
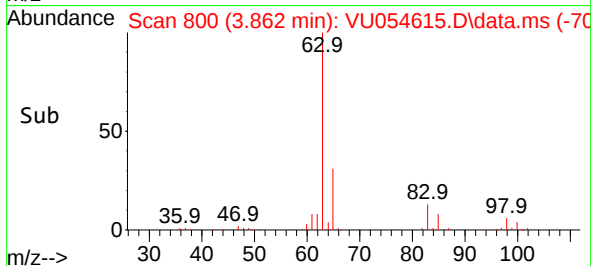
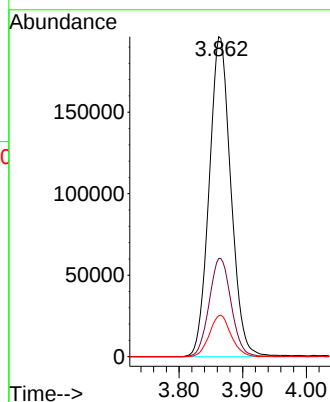
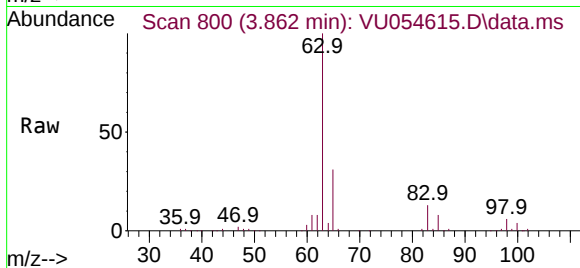
Tgt Ion: 63 Resp: 463821

Ion Ratio Lower Upper

63 100

65 30.7 22.2 41.2

83 12.8 9.0 16.6



#21

2-Butanone

Concen: 105.389 ug/L

RT: 4.698 min Scan# 1060

Delta R.T. -0.003 min

Lab File: VU054615.D

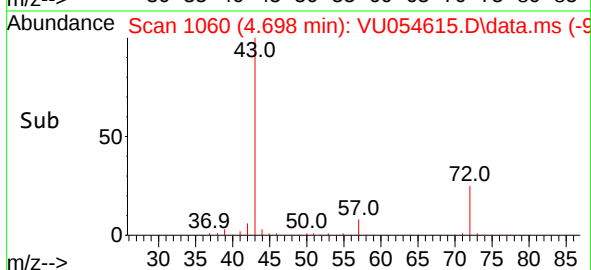
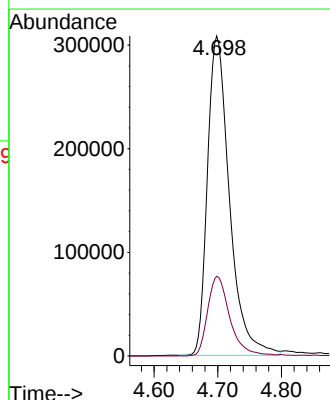
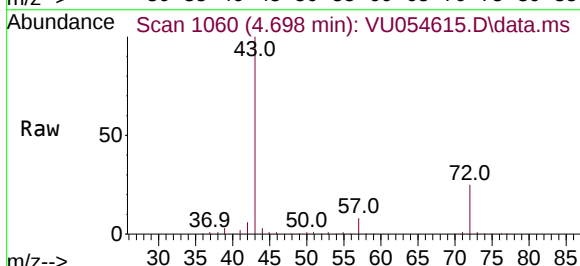
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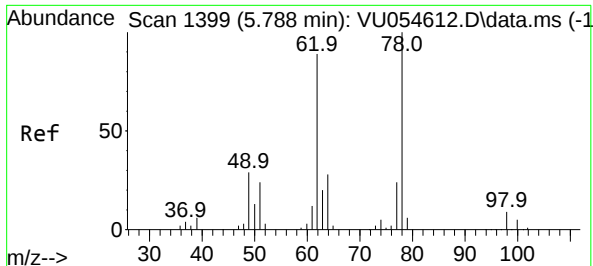
Tgt Ion: 43 Resp: 742522

Ion Ratio Lower Upper

43 100

72 25.1 13.4 40.1

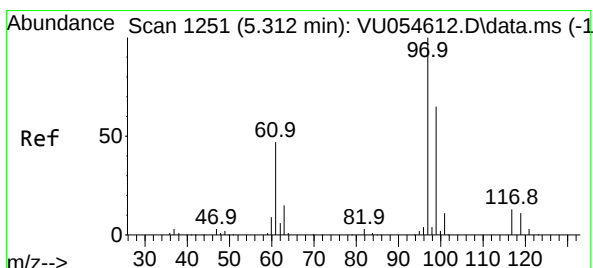
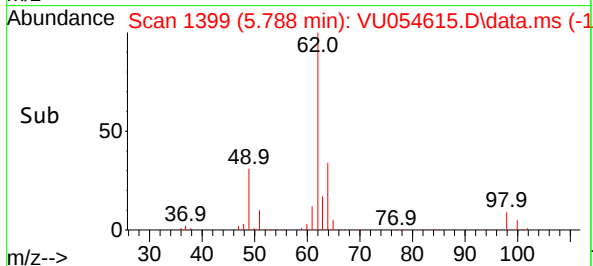
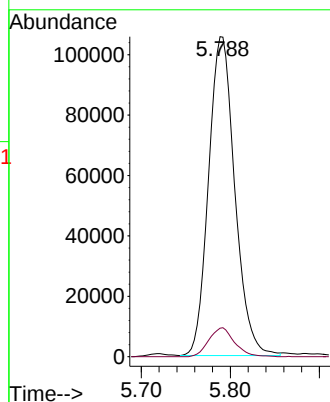
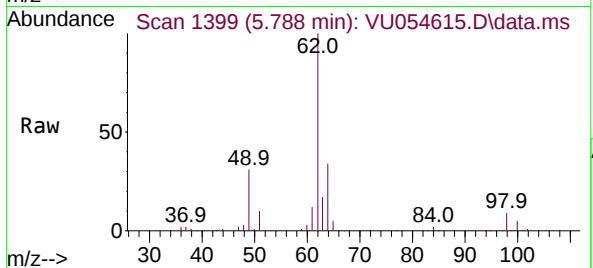




#27
1,2-Dichloroethane
Concen: 7.503 ug/L
RT: 5.788 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

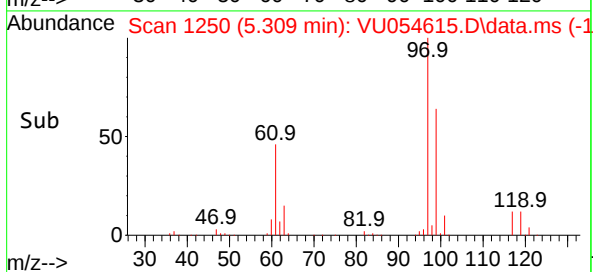
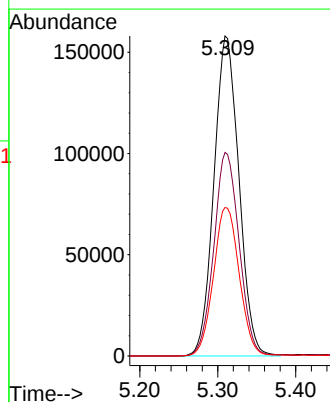
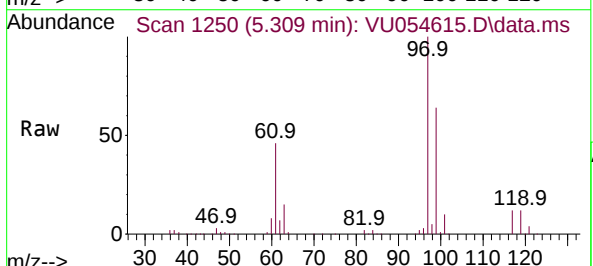
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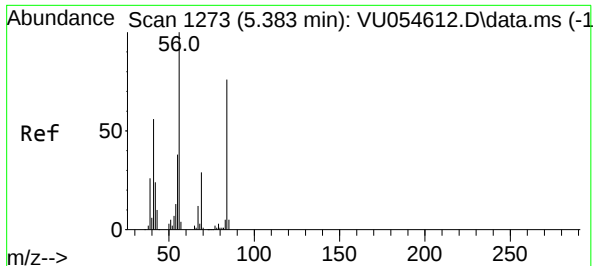
Tgt Ion: 62 Resp: 216212
Ion Ratio Lower Upper
62 100
98 8.9 7.8 11.6



#29
1,1,1-Trichloroethane
Concen: 8.376 ug/L
RT: 5.309 min Scan# 1250
Delta R.T. -0.003 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

Tgt Ion: 97 Resp: 352261
Ion Ratio Lower Upper
97 100
99 64.6 50.8 76.2
61 48.0 36.1 54.1

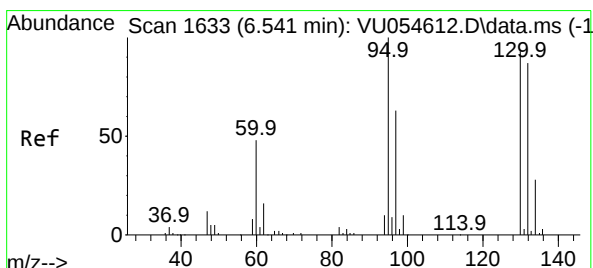
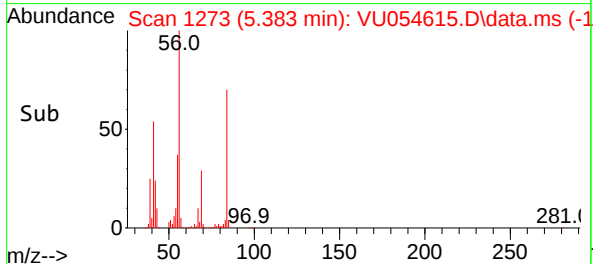
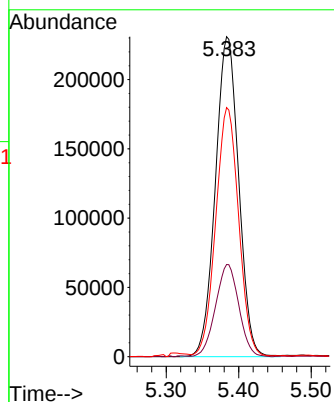
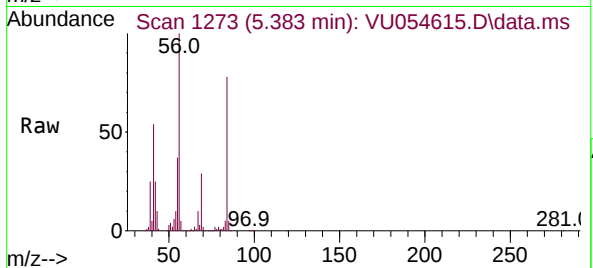




#30
Cyclohexane
Concen: 11.255 ug/L
RT: 5.383 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

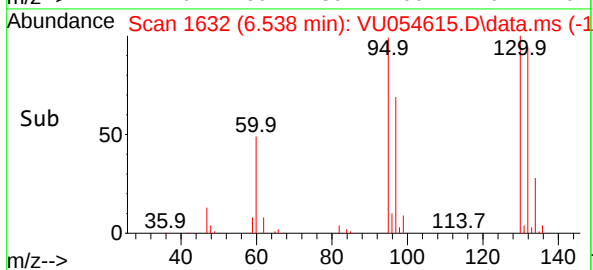
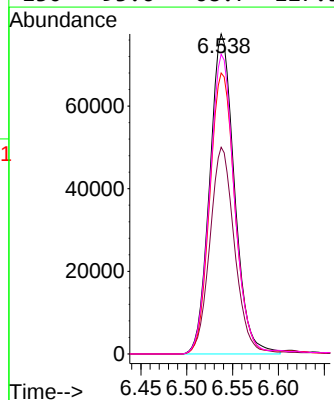
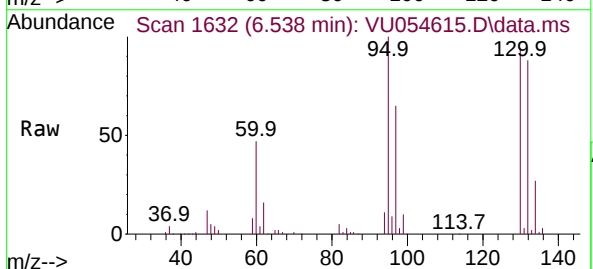
Instrument :
MSVOA_U
ClientSampleId :
GCA41

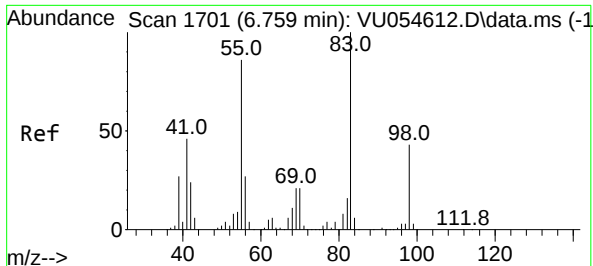
Tgt Ion: 56 Resp: 515572
Ion Ratio Lower Upper
56 100
69 28.8 23.9 35.9
84 76.0 63.0 94.6



#34
Trichloroethene
Concen: 4.925 ug/L
RT: 6.538 min Scan# 1632
Delta R.T. -0.003 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

Tgt Ion: 95 Resp: 145156
Ion Ratio Lower Upper
95 100
97 64.6 46.8 87.0
132 87.8 68.4 127.0
130 93.6 68.7 127.5





#35

Methylcyclohexane

Concen: 6.008 ug/L

RT: 6.759 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU054615.D

Acq: 20 Jun 2023 16:45

Instrument :

MSVOA_U

ClientSampleId :

GCA41

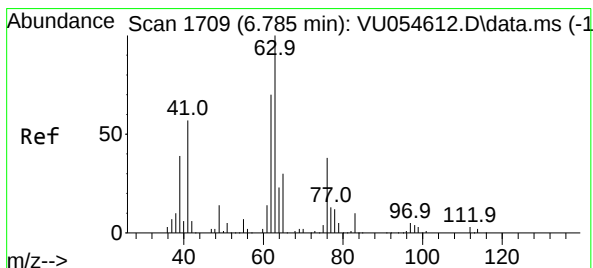
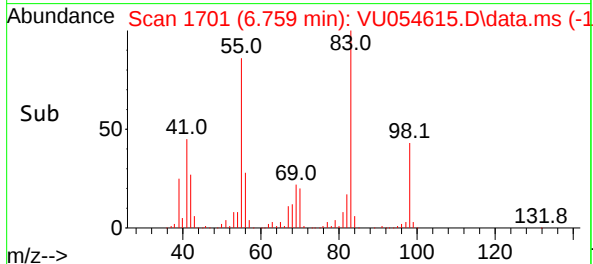
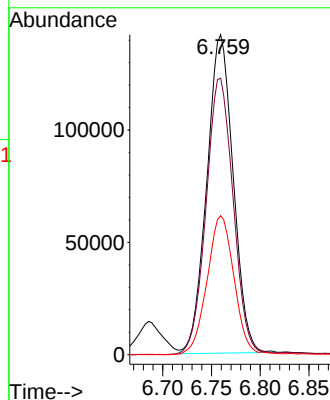
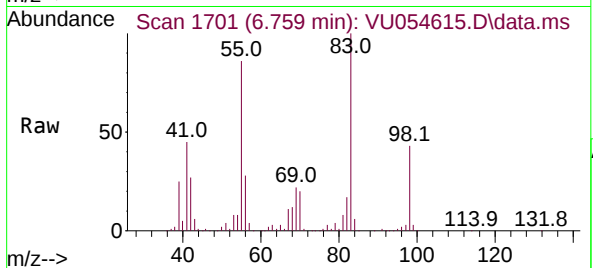
Tgt Ion: 83 Resp: 267658

Ion Ratio Lower Upper

83 100

55 89.2 67.1 100.7

98 44.7 35.1 52.7



#37

1,2-Dichloropropane

Concen: 2.203 ug/L

RT: 6.788 min Scan# 1710

Delta R.T. 0.003 min

Lab File: VU054615.D

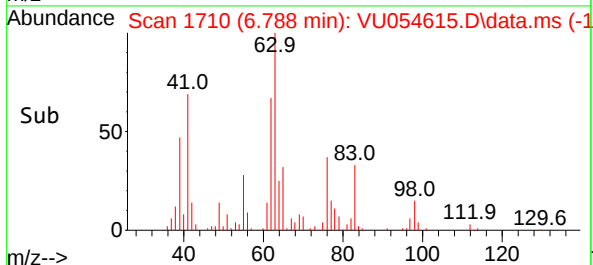
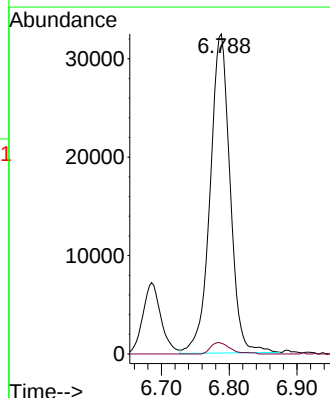
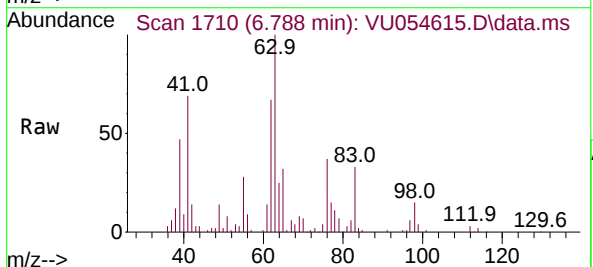
Acq: 20 Jun 2023 16:45

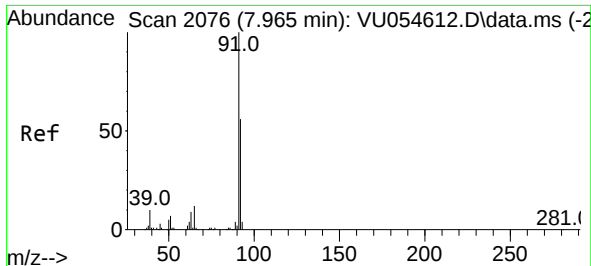
Tgt Ion: 63 Resp: 66390

Ion Ratio Lower Upper

63 100

112 3.5 3.0 4.6





#42

Toluene

Concen: 8.543 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. 0.000 min

Lab File: VU054615.D

Acq: 20 Jun 2023 16:45

Instrument :

MSVOA_U

ClientSampleId :

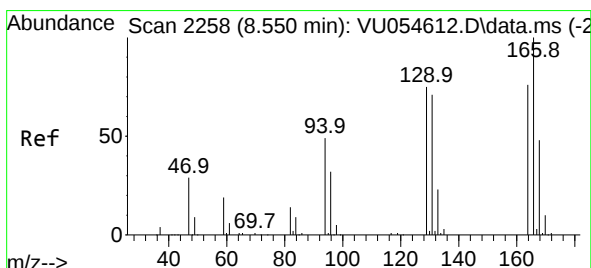
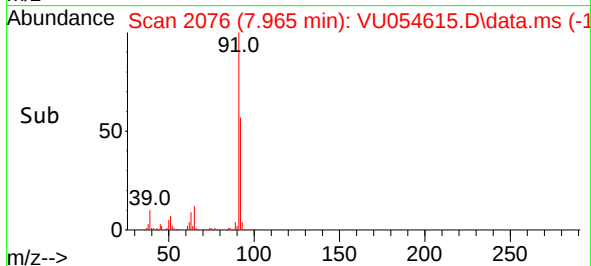
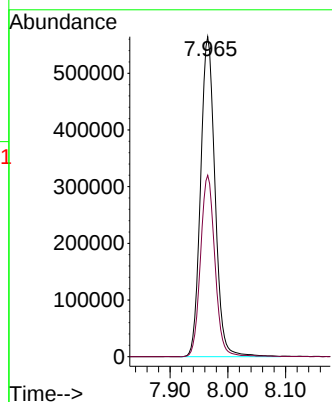
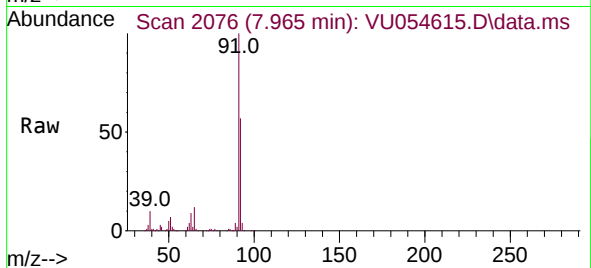
GCA41

Tgt Ion: 91 Resp: 980668

Ion Ratio Lower Upper

91 100

92 56.7 39.5 73.4



#47

Tetrachloroethene

Concen: 7.678 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.003 min

Lab File: VU054615.D

Acq: 20 Jun 2023 16:45

Tgt Ion: 164 Resp: 173229

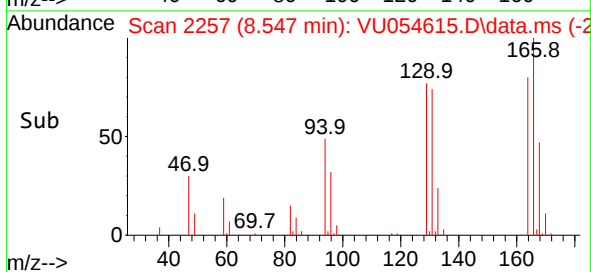
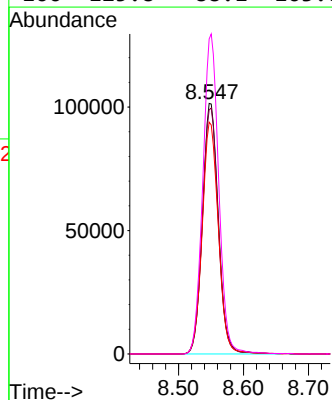
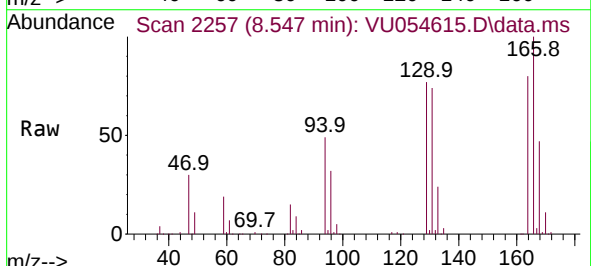
Ion Ratio Lower Upper

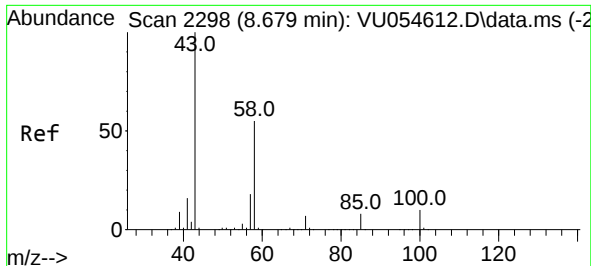
164 100

129 97.4 67.7 125.7

131 92.5 64.6 120.0

166 125.8 88.1 163.7



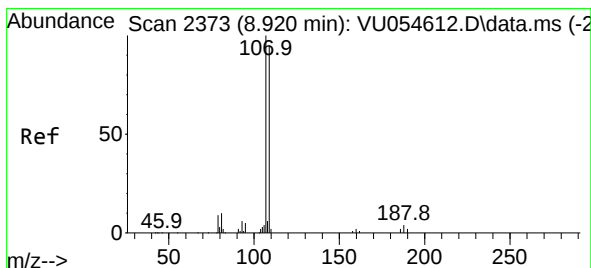
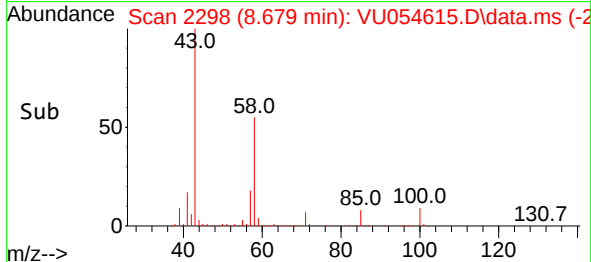
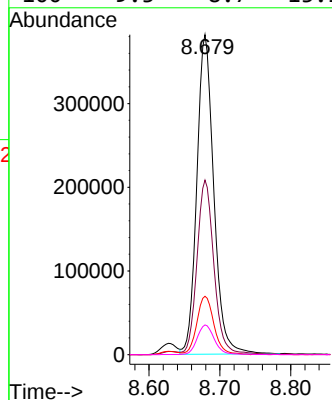
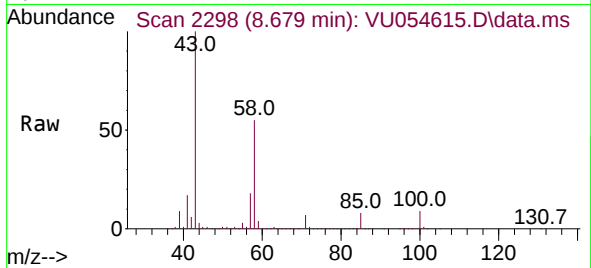


#48
2-Hexanone
Concen: 52.955 ug/L
RT: 8.679 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

Instrument :
MSVOA_U
ClientSampleId :
GCA41

Tgt Ion: 43 Resp: 634615

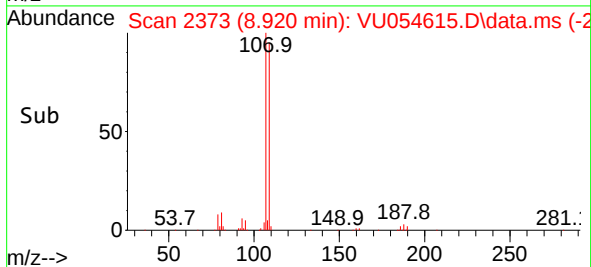
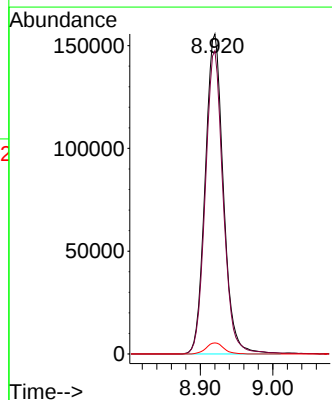
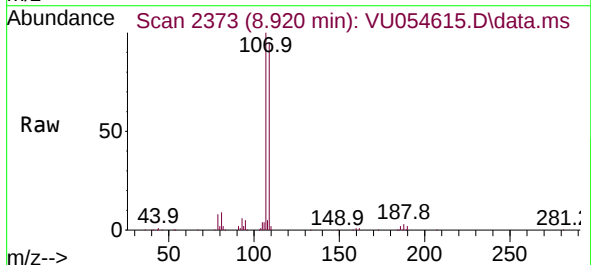
Ion	Ratio	Lower	Upper
43	100		
58	54.5	45.2	67.8
57	18.6	15.8	23.6
100	9.3	8.7	13.1

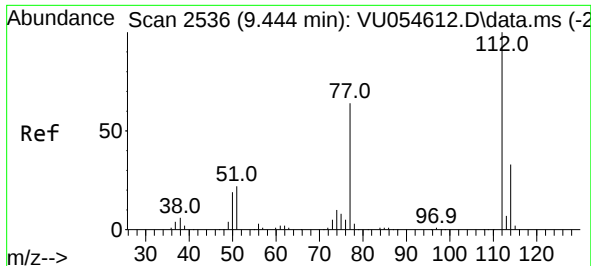


#50
1,2-Dibromoethane
Concen: 15.419 ug/L
RT: 8.920 min Scan# 2373
Delta R.T. 0.000 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

Tgt Ion: 107 Resp: 271412

Ion	Ratio	Lower	Upper
107	100		
109	94.7	66.6	123.6
188	3.4	3.1	4.7

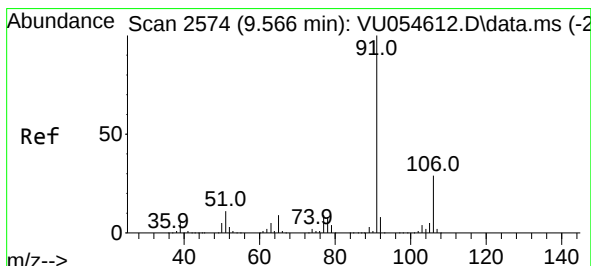
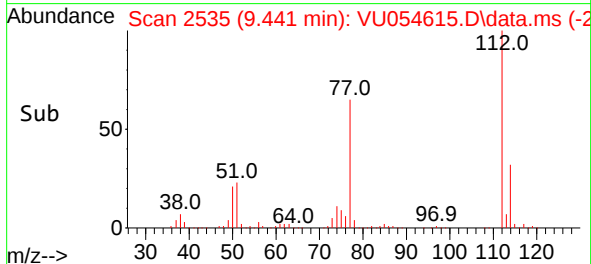
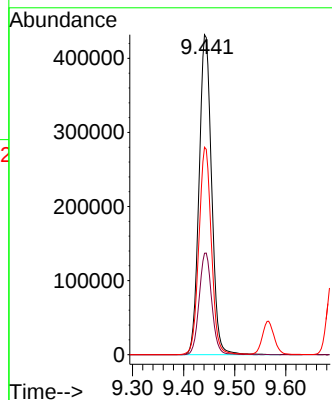
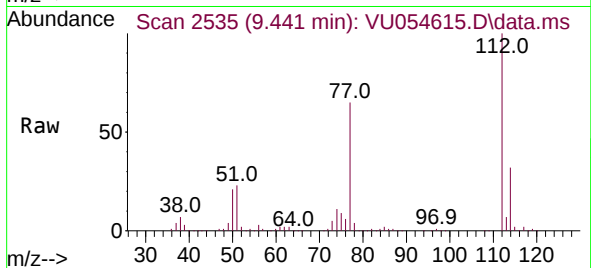




#51
Chlorobenzene
Concen: 10.270 ug/L
RT: 9.441 min Scan# 2536
Delta R.T. -0.003 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

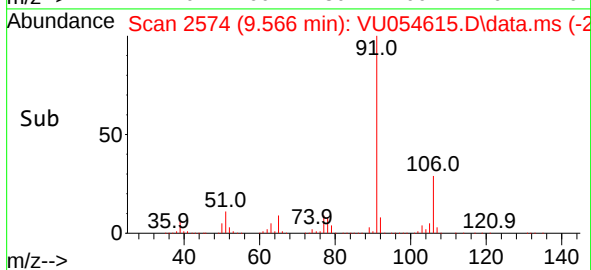
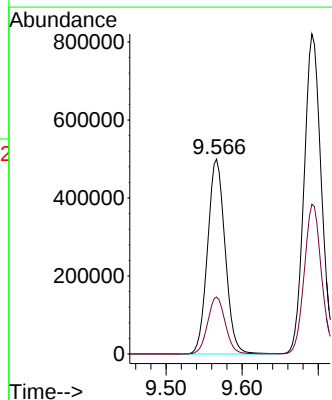
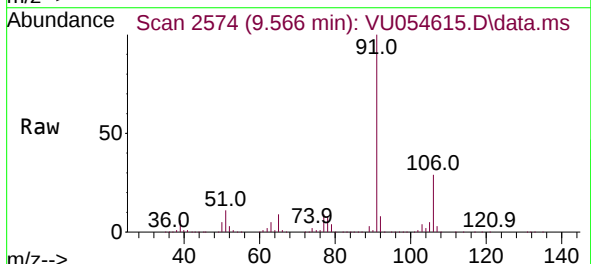
Instrument :
MSVOA_U
ClientSampleId :
GCA41

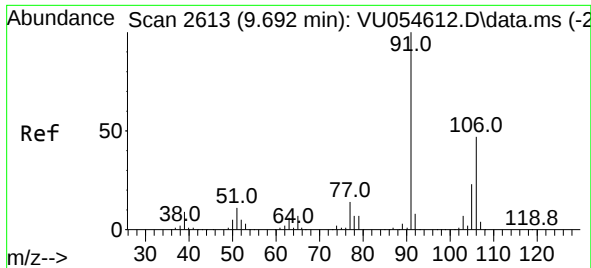
Tgt Ion:112 Resp: 734889
Ion Ratio Lower Upper
112 100
114 31.7 22.7 42.1
77 64.9 49.8 74.8



#52
Ethylbenzene
Concen: 6.397 ug/L
RT: 9.566 min Scan# 2574
Delta R.T. 0.000 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

Tgt Ion: 91 Resp: 801976
Ion Ratio Lower Upper
91 100
106 29.3 21.1 39.3

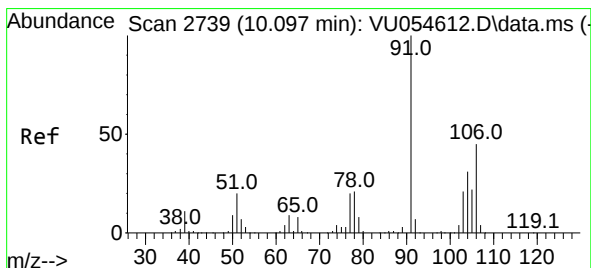
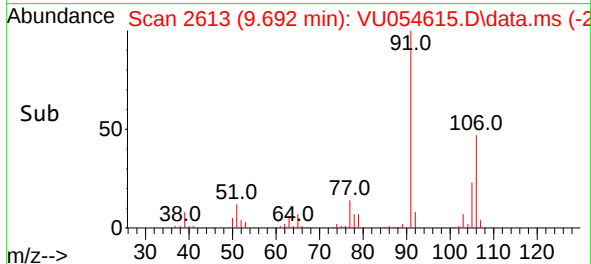
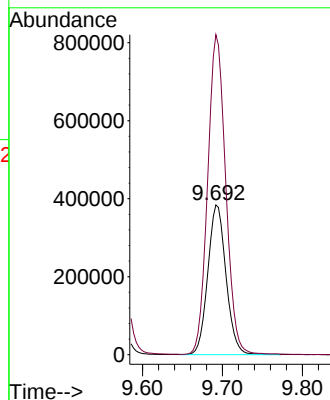
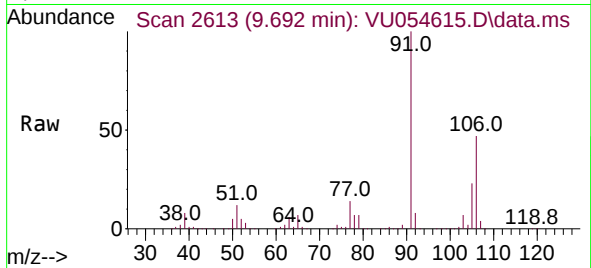




#53
m,p-Xylene
Concen: 13.227 ug/L
RT: 9.692 min Scan# 2613
Delta R.T. 0.000 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

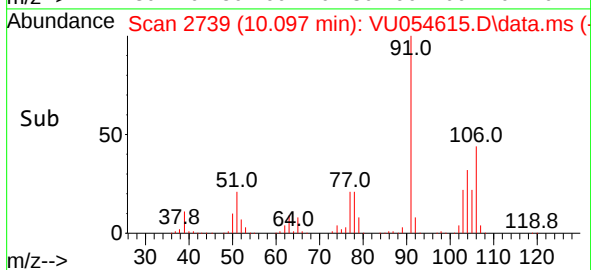
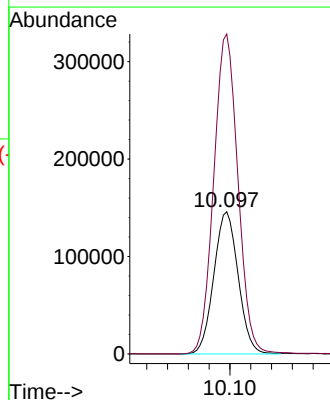
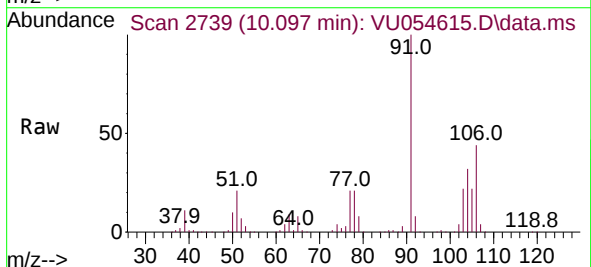
Instrument :
MSVOA_U
ClientSampleId :
GCA41

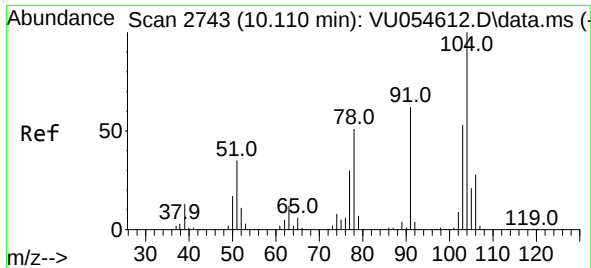
Tgt Ion:106 Resp: 609146
Ion Ratio Lower Upper
106 100
91 213.6 147.0 273.0



#54
o-Xylene
Concen: 5.333 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. 0.000 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

Tgt Ion:106 Resp: 237526
Ion Ratio Lower Upper
106 100
91 224.8 154.5 286.9

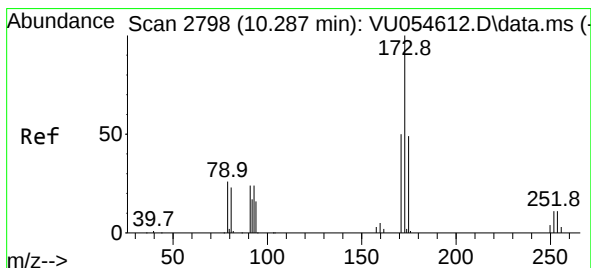
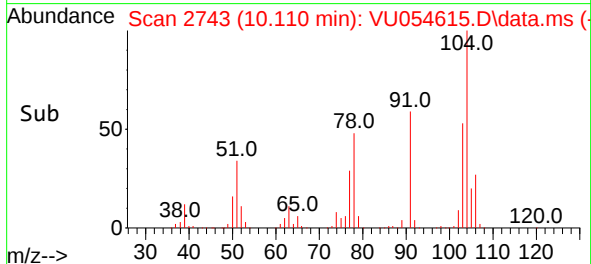
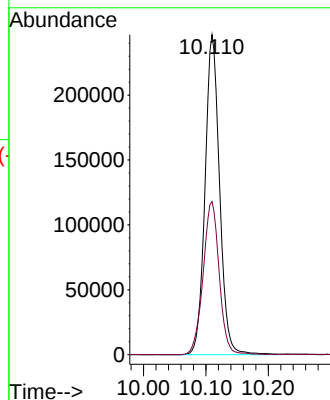
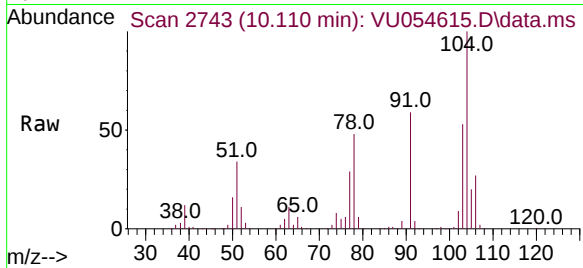




#55
Styrene
Concen: 5.358 ug/L
RT: 10.110 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

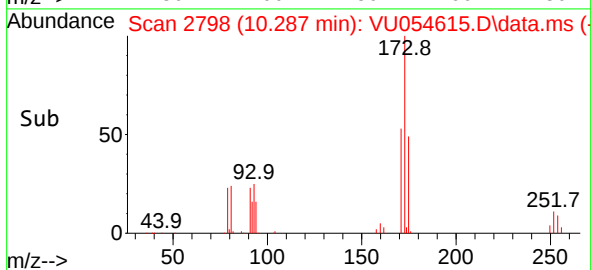
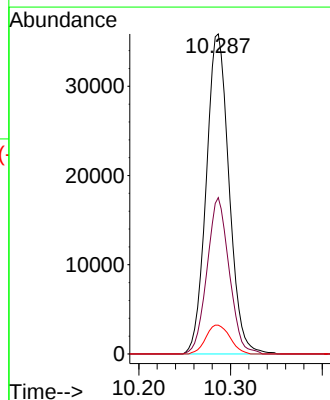
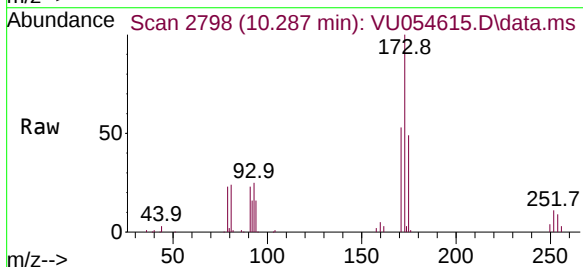
Instrument :
MSVOA_U
ClientSampleId :
GCA41

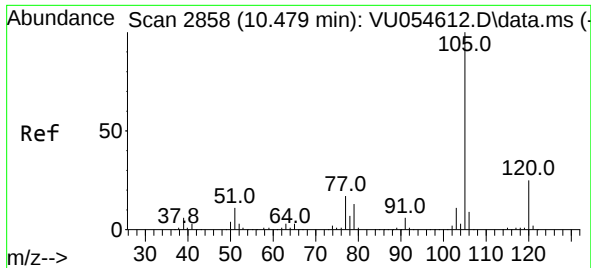
Tgt Ion:104 Resp: 400518
Ion Ratio Lower Upper
104 100
78 47.8 33.0 61.4



#59
Bromoform
Concen: 5.537 ug/L
RT: 10.287 min Scan# 2798
Delta R.T. 0.000 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

Tgt Ion:173 Resp: 61829
Ion Ratio Lower Upper
173 100
175 47.5 39.4 59.0
254 9.6 8.6 12.8

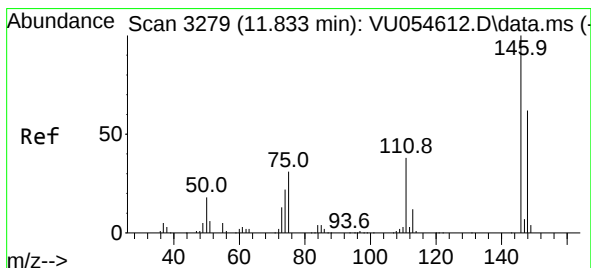
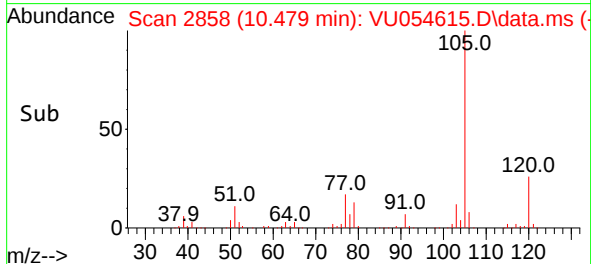
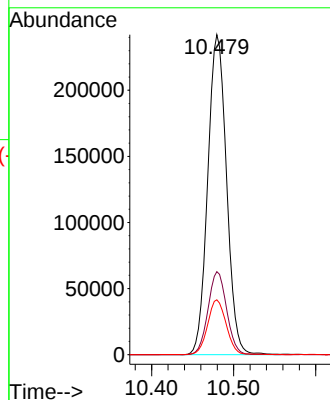
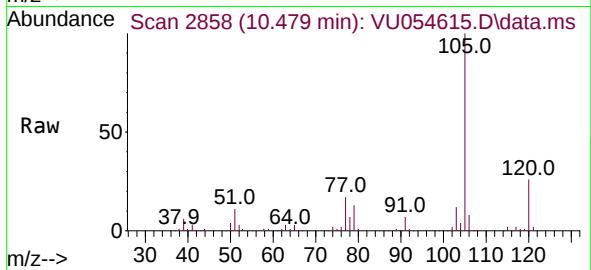




#60
Isopropylbenzene
Concen: 3.390 ug/L
RT: 10.479 min Scan# 2858
Delta R.T. 0.000 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

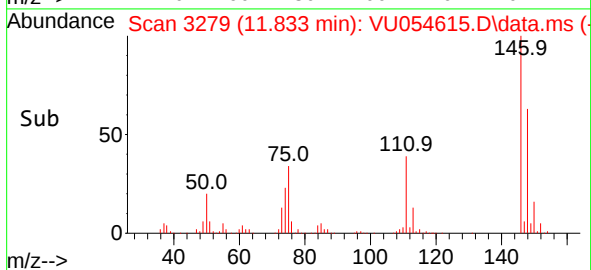
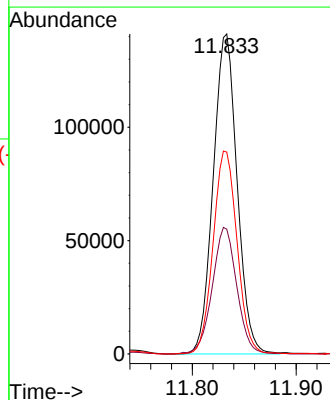
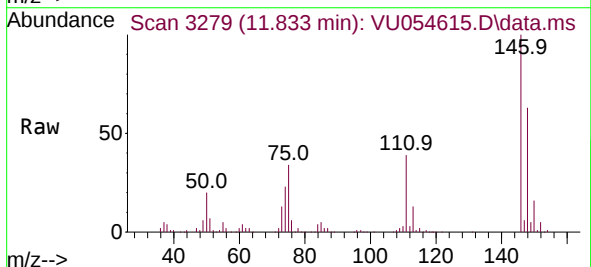
Instrument :
MSVOA_U
ClientSampleId :
GCA41

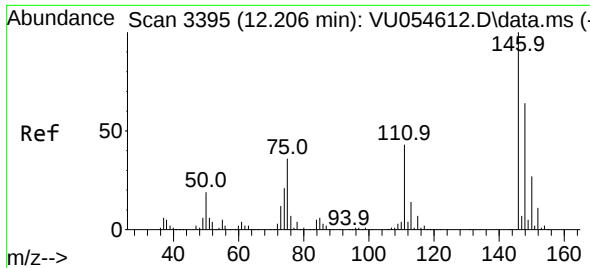
Tgt Ion:105 Resp: 385671
Ion Ratio Lower Upper
105 100
120 25.7 20.9 31.3
77 17.0 13.2 19.8



#65
1,4-Dichlorobenzene
Concen: 4.233 ug/L
RT: 11.833 min Scan# 3279
Delta R.T. 0.000 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

Tgt Ion:146 Resp: 225926
Ion Ratio Lower Upper
146 100
111 39.0 28.0 52.0
148 63.1 44.7 83.1

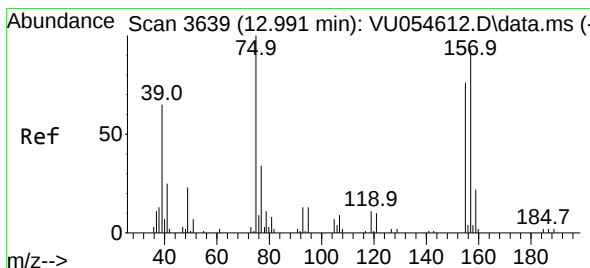
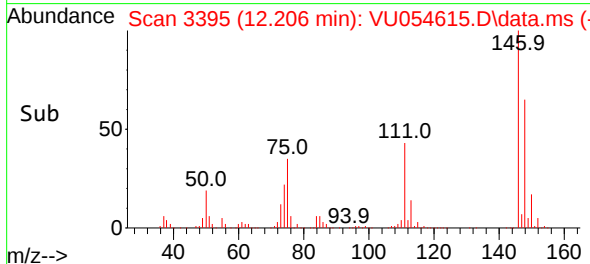
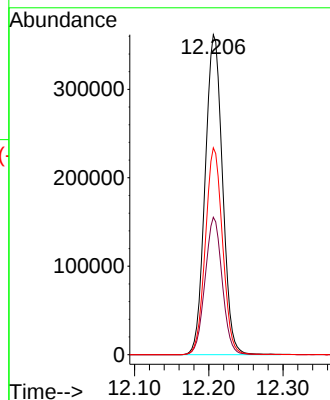
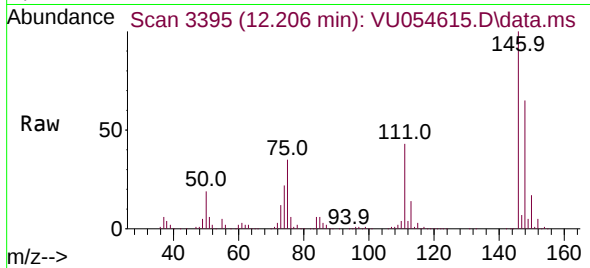




#67
1,2-Dichlorobenzene
Concen: 12.004 ug/L
RT: 12.206 min Scan# 3395
Delta R.T. 0.000 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

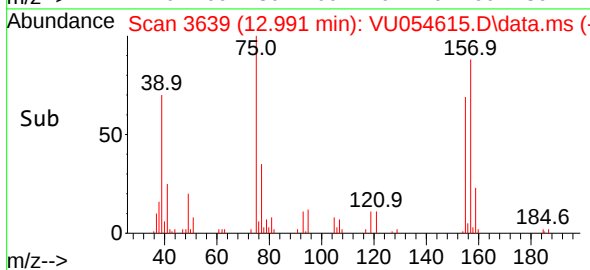
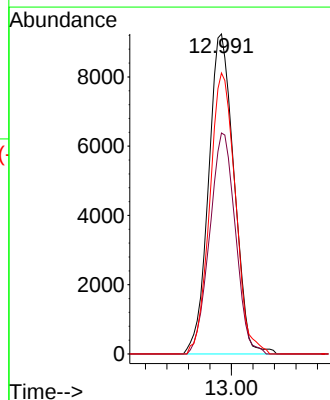
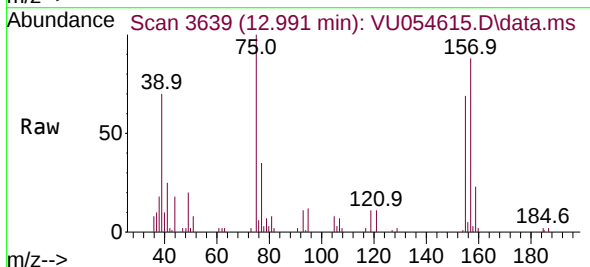
Instrument :
MSVOA_U
ClientSampleId :
GCA41

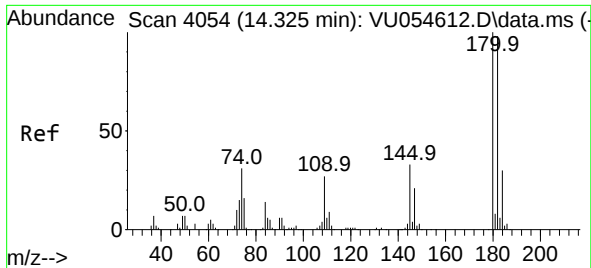
Tgt Ion:146 Resp: 587123
Ion Ratio Lower Upper
146 100
111 43.0 34.5 51.7
148 64.7 50.9 76.3



#68
1,2-Dibromo-3-chloropropane
Concen: 4.404 ug/L
RT: 12.991 min Scan# 3639
Delta R.T. 0.000 min
Lab File: VU054615.D
Acq: 20 Jun 2023 16:45

Tgt Ion: 75 Resp: 15212
Ion Ratio Lower Upper
75 100
155 69.0 65.7 98.5
157 87.8 84.2 126.2





#72
 1,2,3-Trichlorobenzene
 Concen: 10.257 ug/L
 RT: 14.322 min Scan# 4054
 Delta R.T. -0.003 min
 Lab File: VU054615.D
 Acq: 20 Jun 2023 16:45

Instrument :
 MSVOA_U
 ClientSampleId :
 GCA41

Tgt Ion:180 Resp: 292372
 Ion Ratio Lower Upper
 180 100
 182 95.4 75.4 113.2
 145 32.1 26.0 39.0

