

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032224\
 Data File : VU058198.D
 Acq On : 22 Mar 2024 17:58
 Operator : MD/SY
 Sample : P1796-12
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GCFZ7

Quant Time: Mar 22 23:46:44 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR032124WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Mar 22 23:43:24 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	89270	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	85777	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	39489	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	32010	4.243	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.800%
7) Chloroethane-d5	1.910	69	27745	4.506	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.200%
11) 1,1-Dichloroethene-d2	2.563	65	13558	4.329	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.600%
20) 2-Butanone-d5	4.627	46	68891	51.403	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.800%
24) Chloroform-d	5.052	84	60620	4.495	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.800%
26) 1,2-Dichloroethane-d4	5.695	65	29810	4.728	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.600%
32) Benzene-d6	5.721	84	127354	4.571	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.400%
36) 1,2-Dichloropropane-d6	6.682	67	38457	4.683	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.600%
41) Toluene-d8	7.891	98	107218	4.344	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.800%
43) trans-1,3-Dichloroprop...	8.174	79	12163	4.623	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.400%
46) 2-Hexanone-d5	8.627	63	52627	49.393	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.780%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	25867	4.836	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.800%
66) 1,2-Dichlorobenzene-d4	12.187	152	36408	4.951	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.515	50	21378	4.561	ug/L	97
6) Bromomethane	1.856	94	12280	4.474	ug/L	99
9) Trichlorofluoromethane	2.136	101	70295	8.451	ug/L	99
12) 1,1-Dichloroethene	2.576	96	17762	3.969	ug/L	96
13) Acetone	2.647	43	71664	82.622	ug/L	99
14) Carbon disulfide	2.788	76	73562	7.357	ug/L	99
16) Methylene chloride	3.039	84	14510	2.288	ug/L	97
17) Methyl tert-butyl Ether	3.354	73	99991	8.325	ug/L	99
19) 1,1-Dichloroethane	3.859	63	96531	9.186	ug/L	98
21) 2-Butanone	4.701	43	154806	117.476	ug/L	99
27) 1,2-Dichloroethane	5.785	62	45917	7.339	ug/L	99
29) 1,1,1-Trichloroethane	5.306	97	76240	8.596	ug/L	99
30) Cyclohexane	5.380	56	106733	13.778	ug/L	97
34) Trichloroethene	6.534	95	31315	5.335	ug/L	97
35) Methylcyclohexane	6.756	83	61861	7.557	ug/L	99
37) 1,2-Dichloropropane	6.782	63	13623	2.165	ug/L	100
42) Toluene	7.962	91	214442	9.009	ug/L	98
47) Tetrachloroethene	8.544	164	37236	9.472	ug/L	97
48) 2-Hexanone	8.679	43	121505	52.430	ug/L	98

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

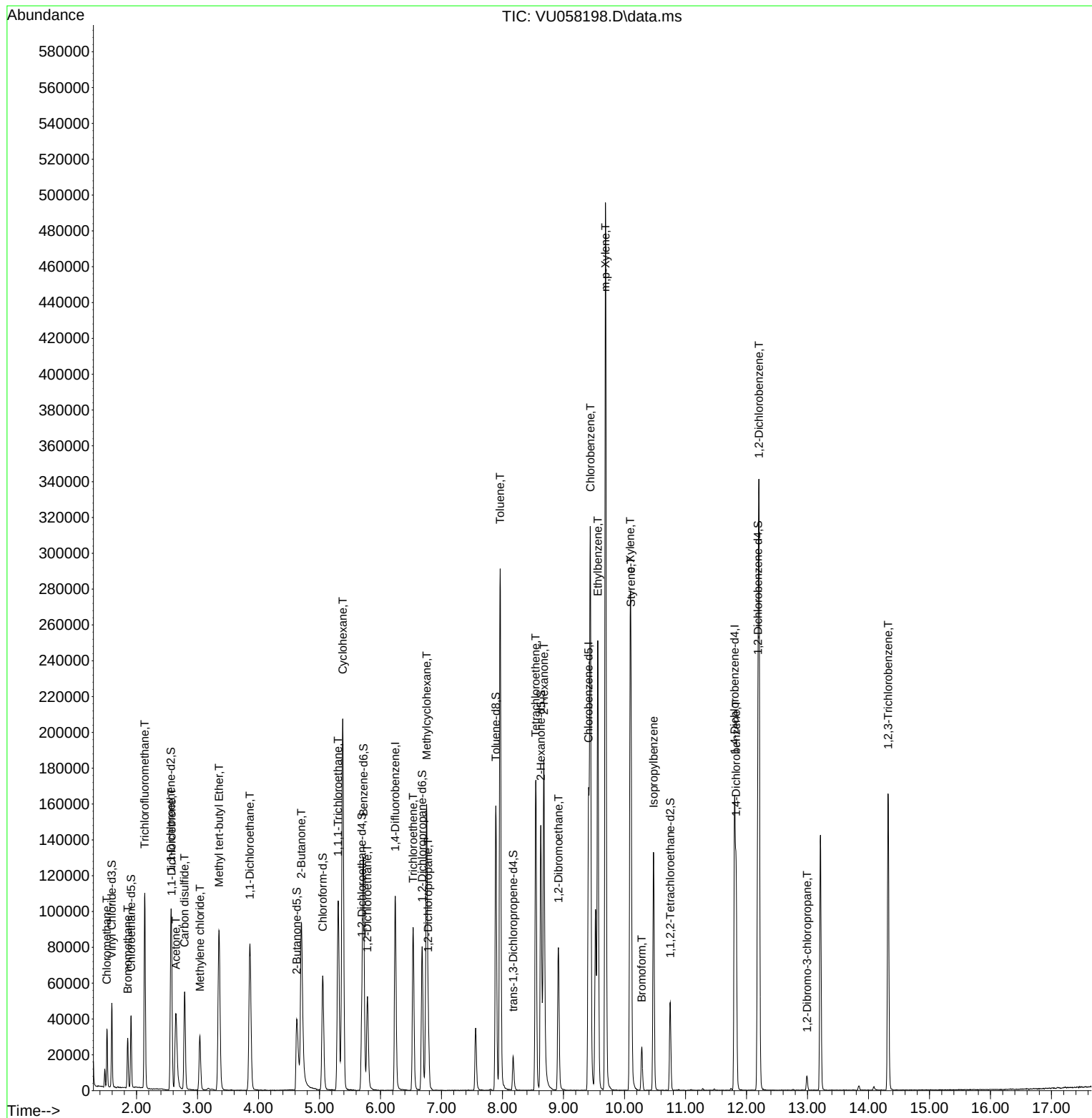
50) 1,2-Dibromoethane	8.917	107	54589	15.997	ug/L	95
51) Chlorobenzene	9.441	112	163880	10.685	ug/L	99
52) Ethylbenzene	9.563	91	173814	6.539	ug/L	99
53) m,p-Xylene	9.688	106	130881	13.820	ug/L	96
54) o-Xylene	10.093	106	52561	5.498	ug/L	97
55) Styrene	10.106	104	85144	5.641	ug/L	98
59) Bromoform	10.283	173	10615	5.118	ug/L #	95
60) Isopropylbenzene	10.476	105	84921	3.580	ug/L	100
65) 1,4-Dichlorobenzene	11.830	146	46306	4.336	ug/L	99
67) 1,2-Dichlorobenzene	12.206	146	120213	11.766	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.994	75	2228	4.468	ug/L	96
72) 1,2,3-Trichlorobenzene	14.322	180	49900	10.576	ug/L	99

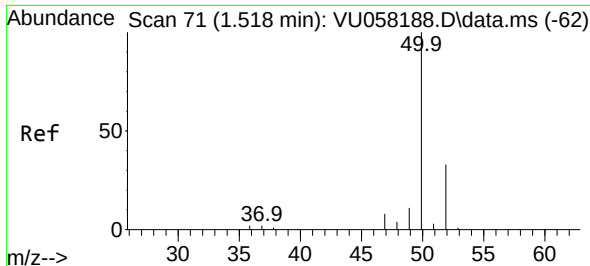
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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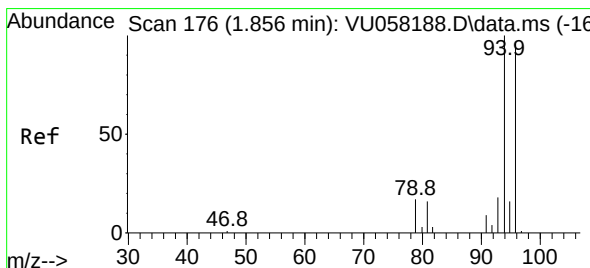
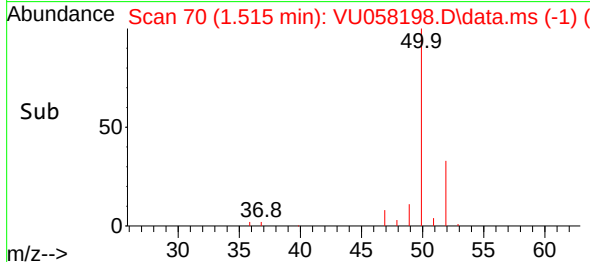
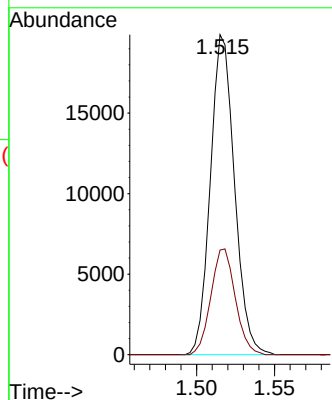
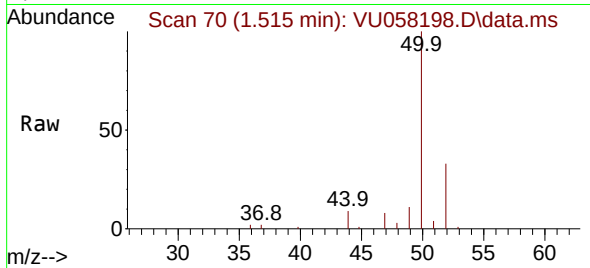




#3
Chloromethane
Concen: 4.561 ug/L
RT: 1.515 min Scan# 70
Delta R.T. -0.003 min
Lab File: VU058198.D
Acq: 22 Mar 2024 17:58

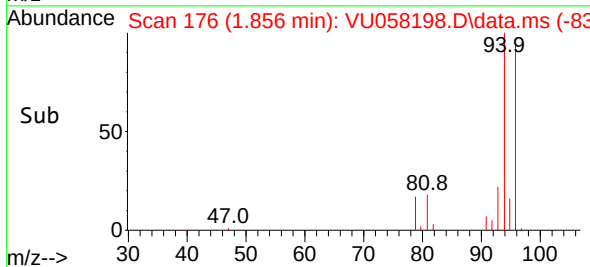
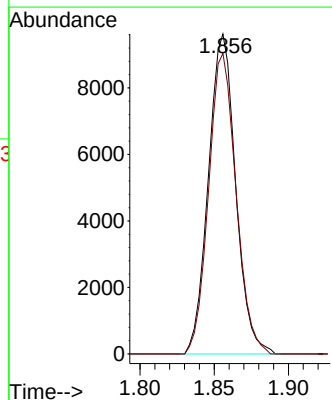
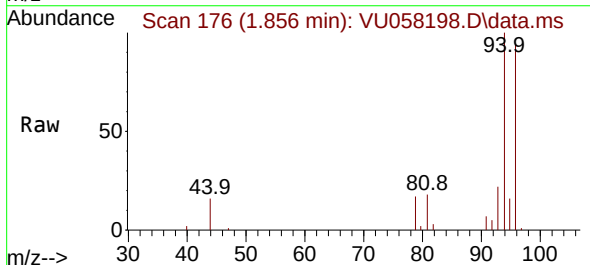
Instrument :
MSVOA_U
ClientSampleId :
GCFZ7

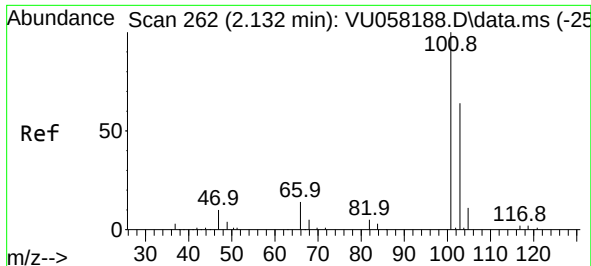
Tgt Ion: 50 Resp: 21378
Ion Ratio Lower Upper
50 100
52 32.7 24.2 45.0



#6
Bromomethane
Concen: 4.474 ug/L
RT: 1.856 min Scan# 176
Delta R.T. -0.000 min
Lab File: VU058198.D
Acq: 22 Mar 2024 17:58

Tgt Ion: 94 Resp: 12280
Ion Ratio Lower Upper
94 100
96 94.0 64.8 120.4

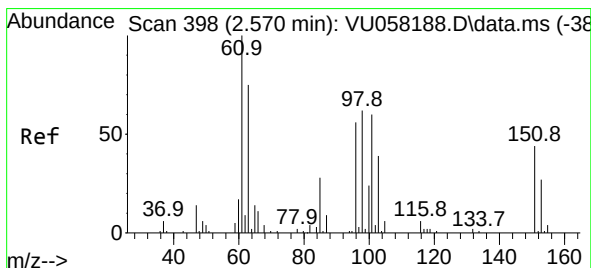
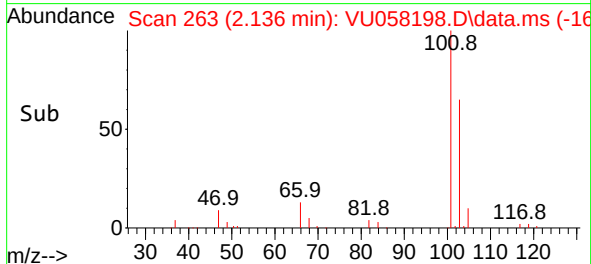
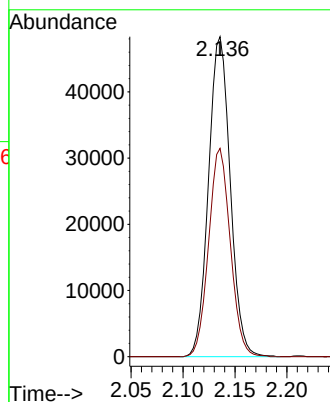
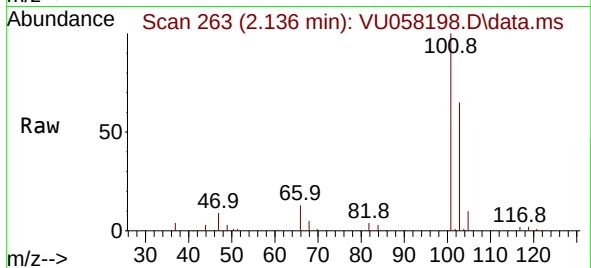




#9
Trichlorofluoromethane
Concen: 8.451 ug/L
RT: 2.136 min Scan# 20
Delta R.T. 0.003 min
Lab File: VU058198.D
Acq: 22 Mar 2024 17:58

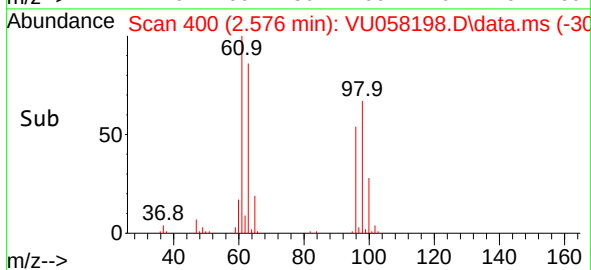
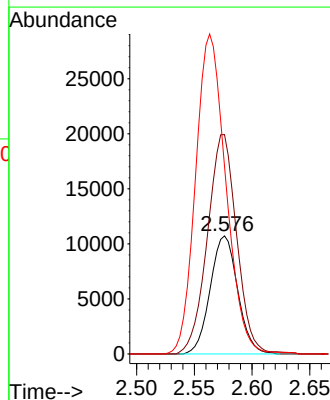
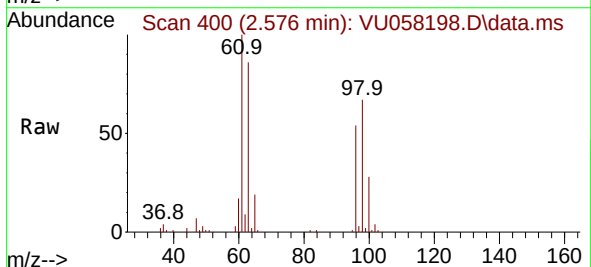
Instrument :
MSVOA_U
ClientSampleId :
GCFZ7

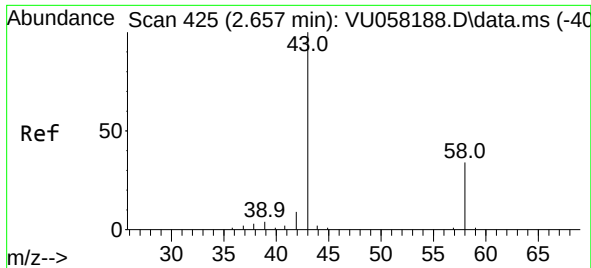
Tgt Ion:101 Resp: 70295
Ion Ratio Lower Upper
101 100
103 64.9 52.3 78.5



#12
1,1-Dichloroethene
Concen: 3.969 ug/L
RT: 2.576 min Scan# 400
Delta R.T. 0.006 min
Lab File: VU058198.D
Acq: 22 Mar 2024 17:58

Tgt Ion: 96 Resp: 17762
Ion Ratio Lower Upper
96 100
61 185.7 128.1 237.9
63 158.9 116.8 217.0





#13

Acetone

Concen: 82.622 ug/L

RT: 2.647 min Scan# 41

Delta R.T. -0.010 min

Lab File: VU058198.D

Acq: 22 Mar 2024 17:58

Instrument :

MSVOA_U

ClientSampleId :

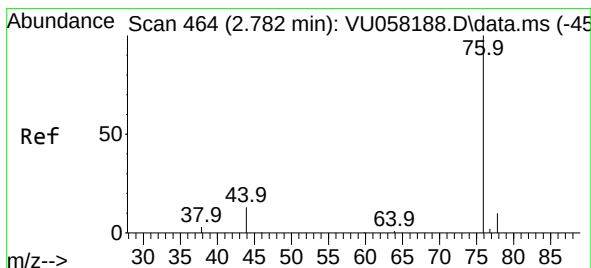
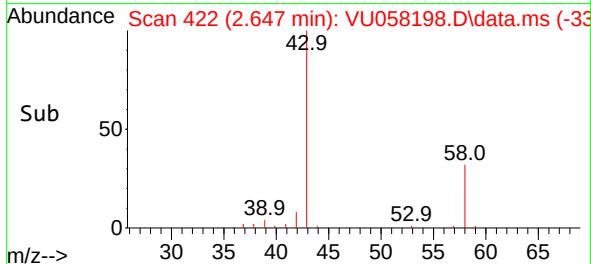
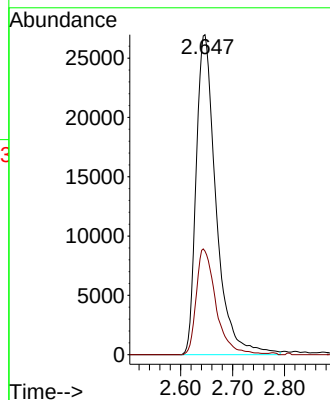
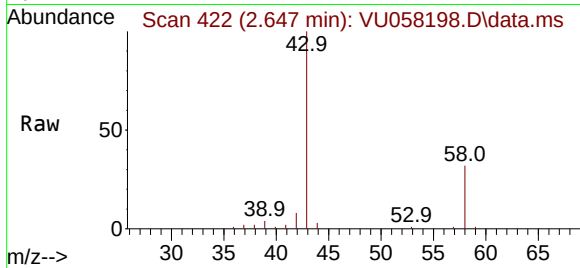
GCFZ7

Tgt Ion: 43 Resp: 71664

Ion Ratio Lower Upper

43 100

58 32.7 0.0 64.6



#14

Carbon disulfide

Concen: 7.357 ug/L

RT: 2.788 min Scan# 466

Delta R.T. 0.006 min

Lab File: VU058198.D

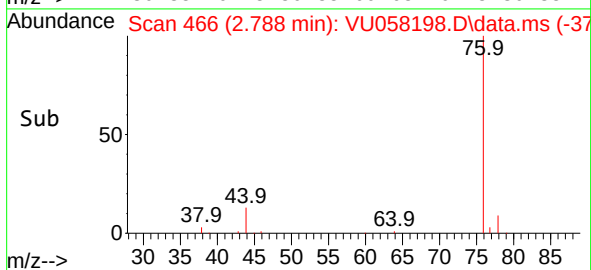
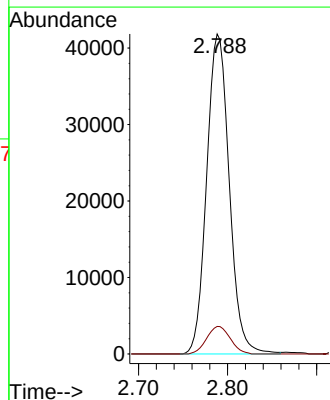
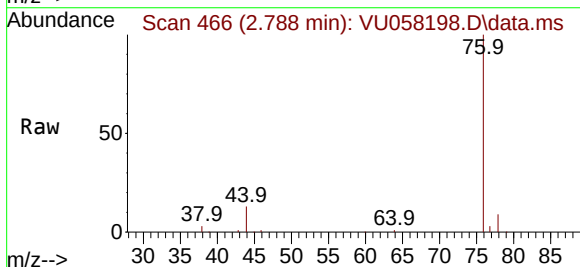
Acq: 22 Mar 2024 17:58

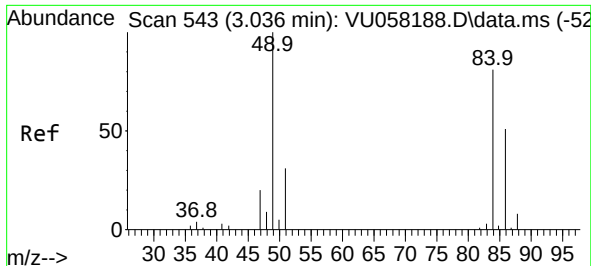
Tgt Ion: 76 Resp: 73562

Ion Ratio Lower Upper

76 100

78 8.6 7.2 10.8

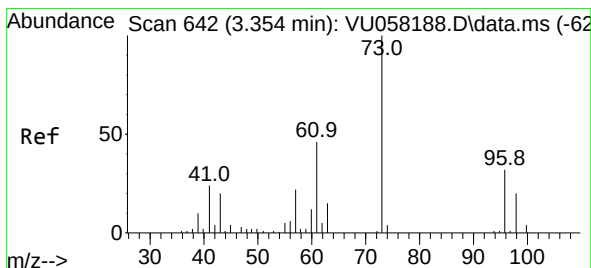
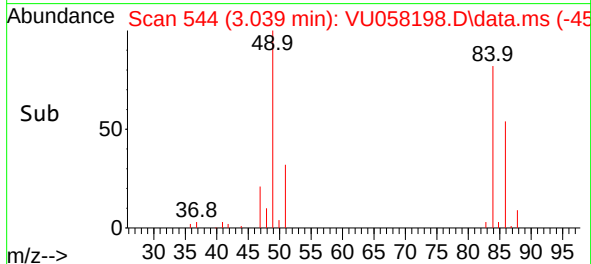
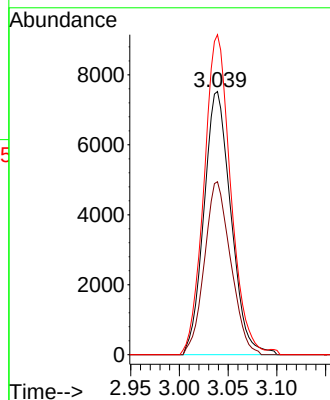
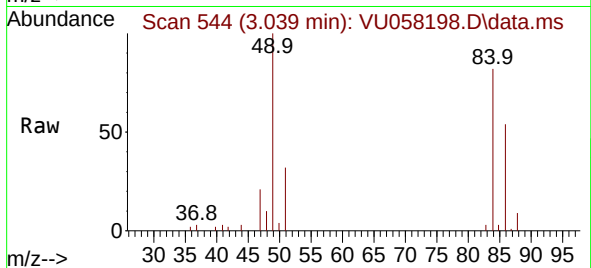




#16
Methylene chloride
Concen: 2.288 ug/L
RT: 3.039 min Scan# 543
Delta R.T. 0.003 min
Lab File: VU058198.D
Acq: 22 Mar 2024 17:58

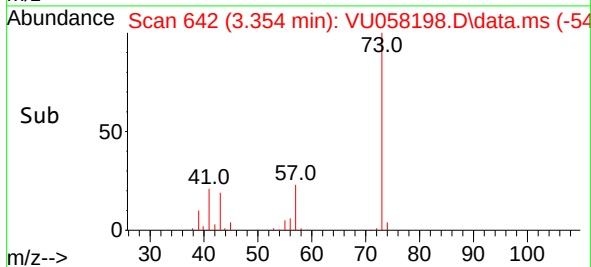
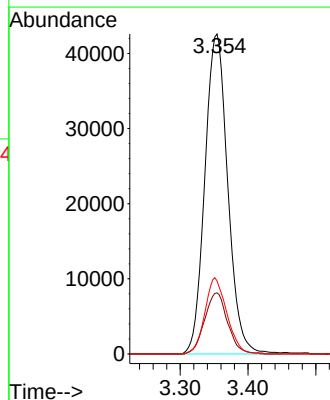
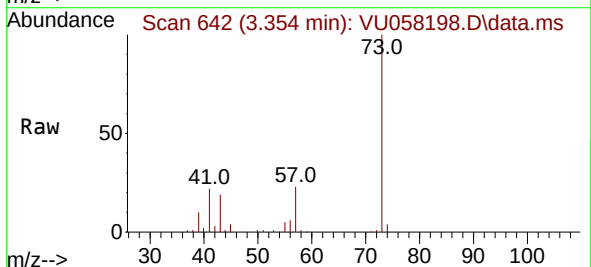
Instrument :
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GCFZ7

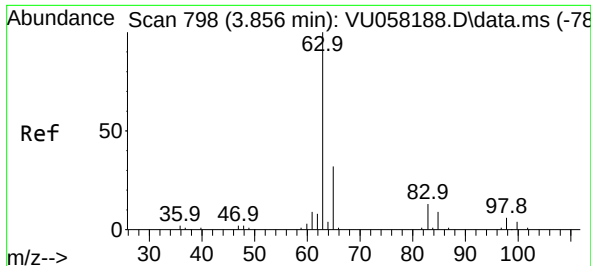
Tgt Ion: 84 Resp: 14510
Ion Ratio Lower Upper
84 100
86 65.7 45.6 84.6
49 121.6 88.3 163.9



#17
Methyl tert-butyl Ether
Concen: 8.325 ug/L
RT: 3.354 min Scan# 642
Delta R.T. -0.000 min
Lab File: VU058198.D
Acq: 22 Mar 2024 17:58

Tgt Ion: 73 Resp: 99991
Ion Ratio Lower Upper
73 100
43 19.1 15.5 23.3
57 22.8 18.0 27.0





#19

1,1-Dichloroethane

Concen: 9.186 ug/L

RT: 3.859 min Scan# 798

Delta R.T. 0.003 min

Lab File: VU058198.D

Acq: 22 Mar 2024 17:58

Instrument :

MSVOA_U

ClientSampleId :

GCFZ7

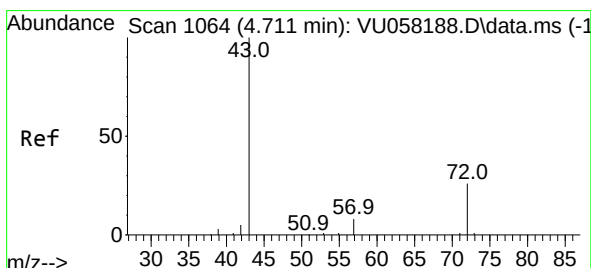
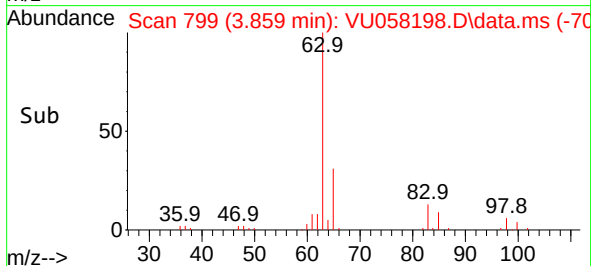
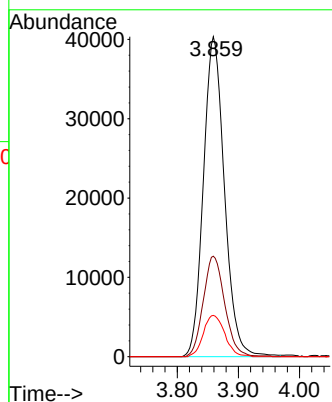
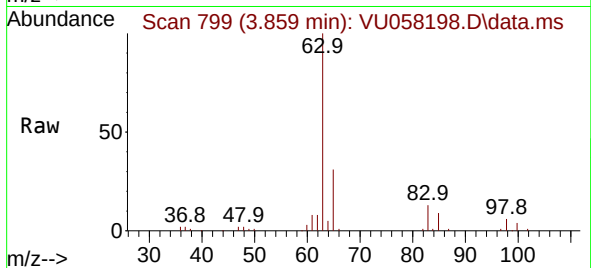
Tgt Ion: 63 Resp: 96531

Ion Ratio Lower Upper

63 100

65 31.4 22.3 41.5

83 12.9 10.0 18.6



#21

2-Butanone

Concen: 117.476 ug/L

RT: 4.701 min Scan# 1061

Delta R.T. -0.010 min

Lab File: VU058198.D

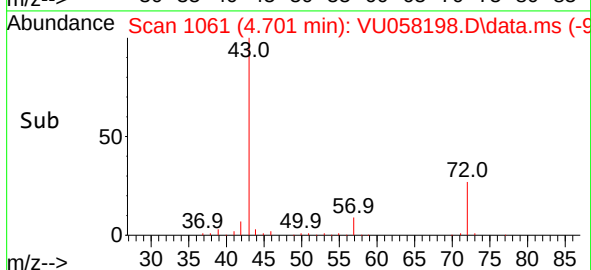
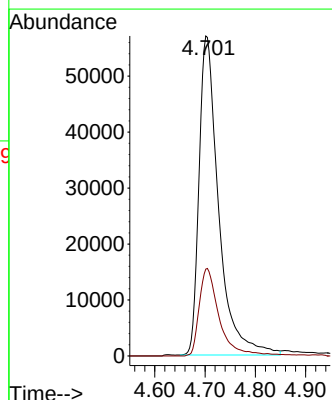
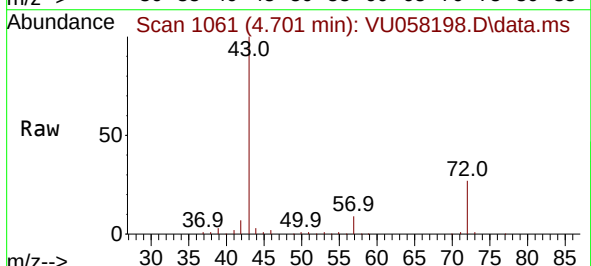
Acq: 22 Mar 2024 17:58

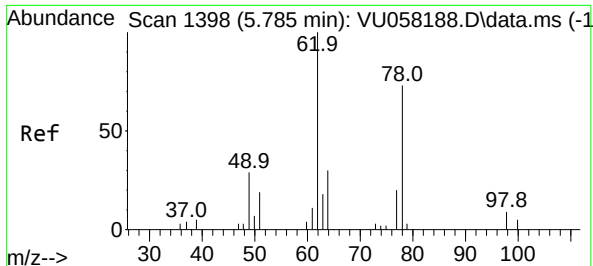
Tgt Ion: 43 Resp: 154806

Ion Ratio Lower Upper

43 100

72 27.5 14.0 41.9

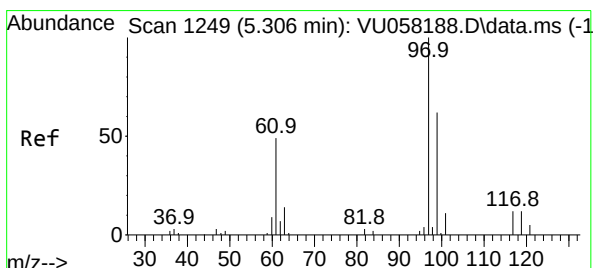
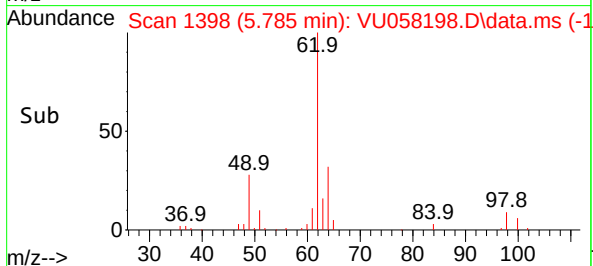
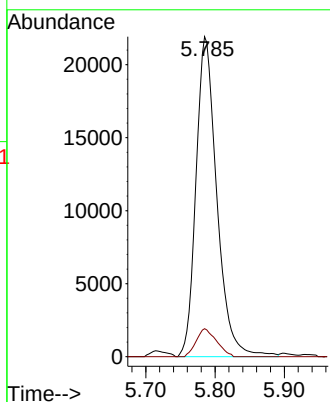
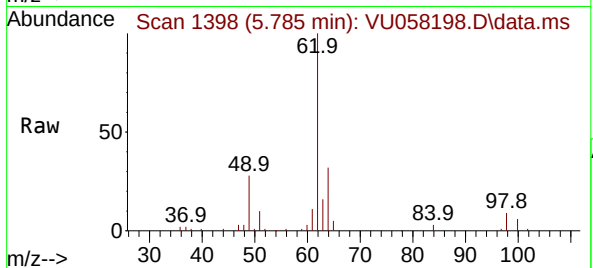




#27
1,2-Dichloroethane
Concen: 7.339 ug/L
RT: 5.785 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU058198.D
Acq: 22 Mar 2024 17:58

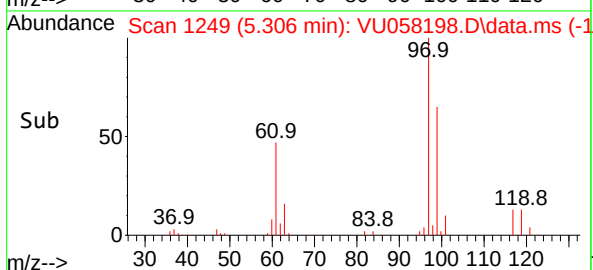
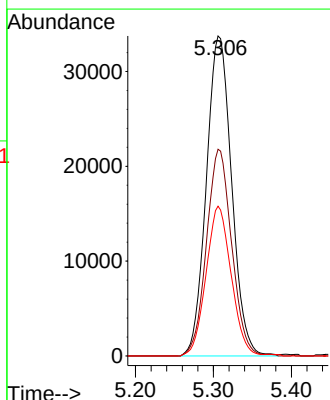
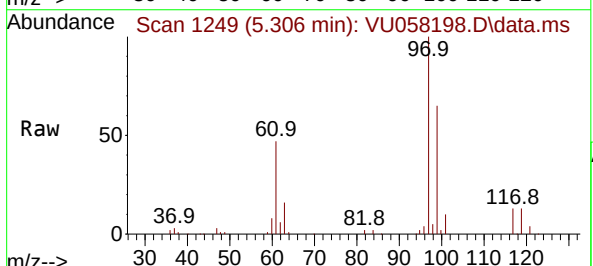
Instrument :
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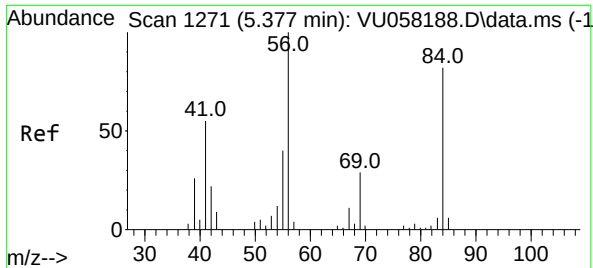
Tgt Ion: 62 Resp: 45917
Ion Ratio Lower Upper
62 100
98 8.8 6.6 10.0



#29
1,1,1-Trichloroethane
Concen: 8.596 ug/L
RT: 5.306 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VU058198.D
Acq: 22 Mar 2024 17:58

Tgt Ion: 97 Resp: 76240
Ion Ratio Lower Upper
97 100
99 64.3 50.5 75.7
61 46.3 36.3 54.5

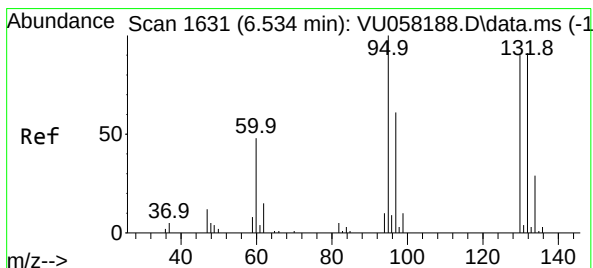
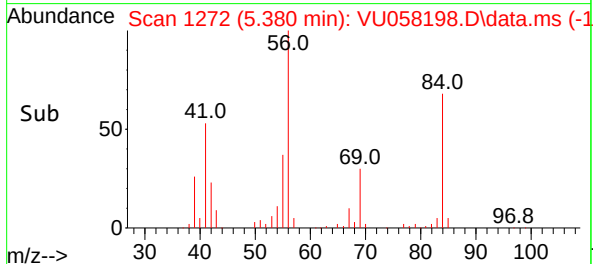
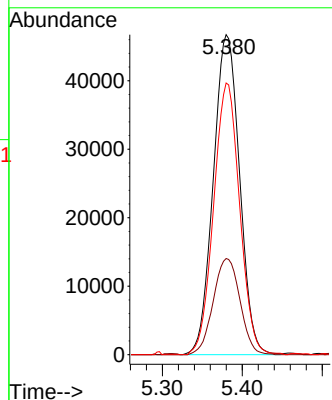
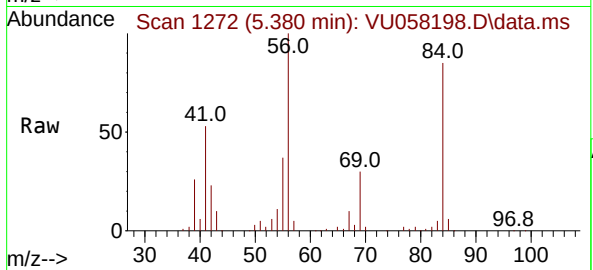




#30
Cyclohexane
Concen: 13.778 ug/L
RT: 5.380 min Scan# 1271
Delta R.T. 0.003 min
Lab File: VU058198.D
Acq: 22 Mar 2024 17:58

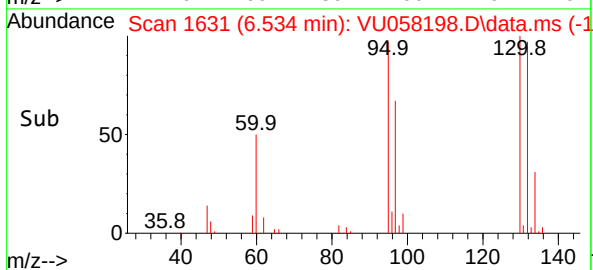
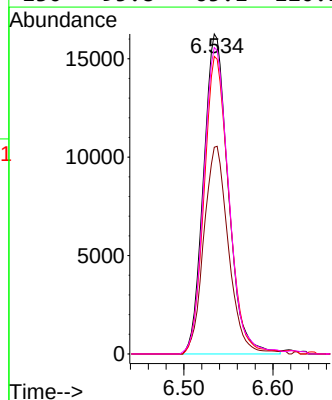
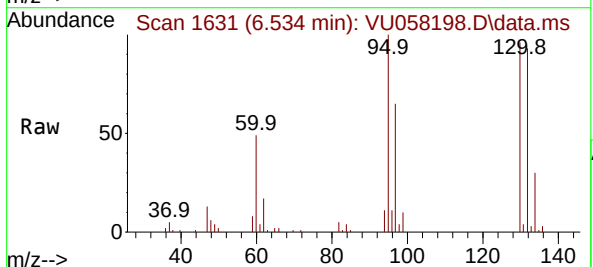
Instrument :
MSVOA_U
ClientSampleId :
GCFZ7

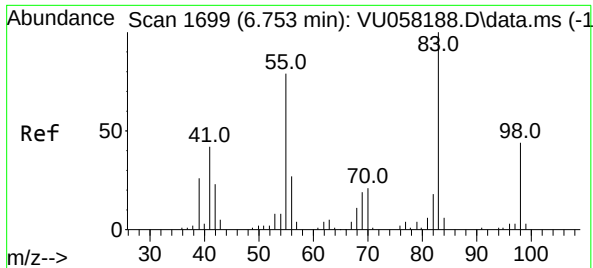
Tgt Ion: 56 Resp: 106733
Ion Ratio Lower Upper
56 100
69 30.6 24.2 36.2
84 84.0 69.7 104.5



#34
Trichloroethene
Concen: 5.335 ug/L
RT: 6.534 min Scan# 1631
Delta R.T. -0.000 min
Lab File: VU058198.D
Acq: 22 Mar 2024 17:58

Tgt Ion: 95 Resp: 31315
Ion Ratio Lower Upper
95 100
97 64.6 47.7 88.7
132 93.0 63.6 118.2
130 95.8 65.1 120.9

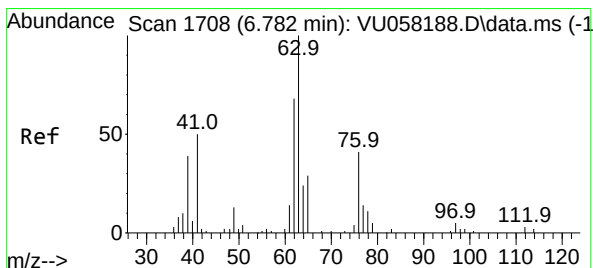
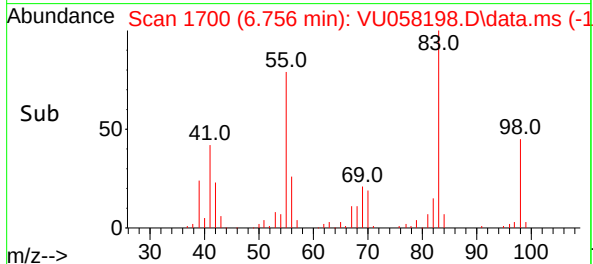
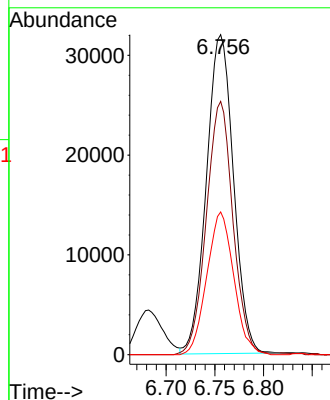
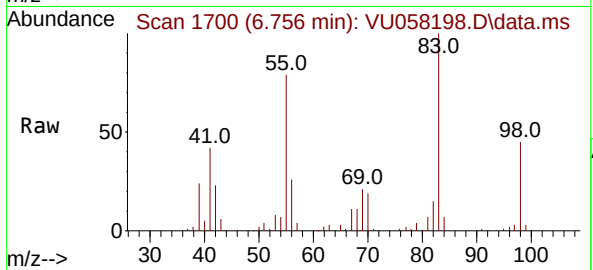




#35
Methylcyclohexane
Concen: 7.557 ug/L
RT: 6.756 min Scan# 1700
Delta R.T. 0.003 min
Lab File: VU058198.D
Acq: 22 Mar 2024 17:58

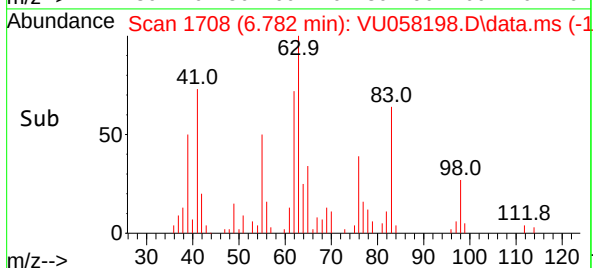
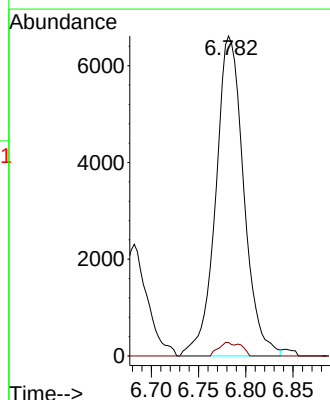
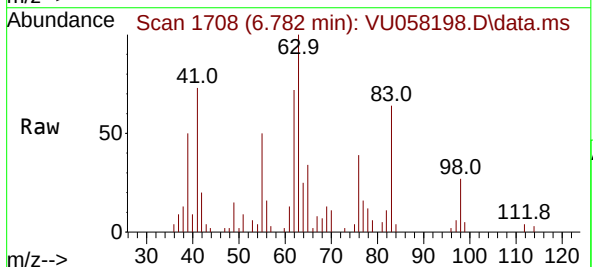
Instrument :
MSVOA_U
ClientSampleId :
GCFZ7

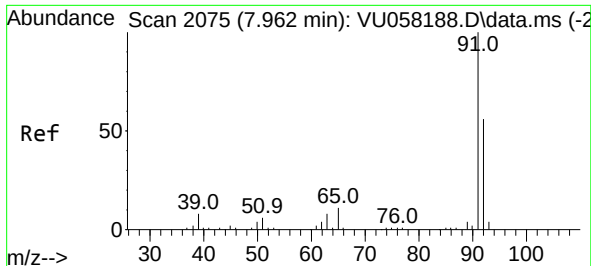
Tgt Ion: 83 Resp: 61861
Ion Ratio Lower Upper
83 100
55 78.0 62.7 94.1
98 44.5 37.3 55.9



#37
1,2-Dichloropropane
Concen: 2.165 ug/L
RT: 6.782 min Scan# 1708
Delta R.T. -0.000 min
Lab File: VU058198.D
Acq: 22 Mar 2024 17:58

Tgt Ion: 63 Resp: 13623
Ion Ratio Lower Upper
63 100
112 3.4 2.7 4.1





#42

Toluene

Concen: 9.009 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. -0.000 min

Lab File: VU058198.D

Acq: 22 Mar 2024 17:58

Instrument :

MSVOA_U

ClientSampleId :

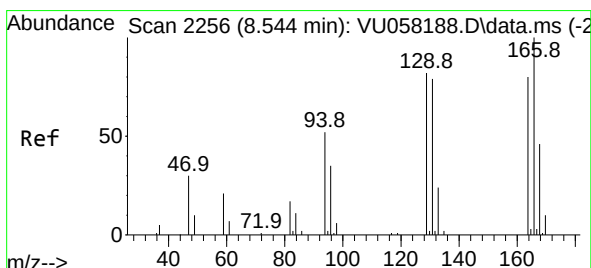
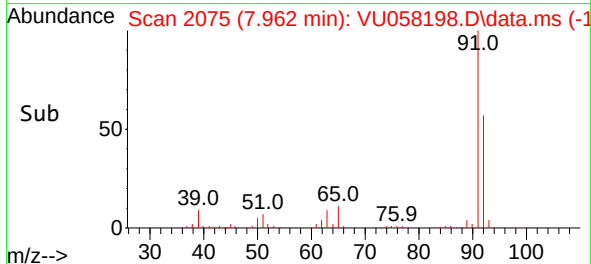
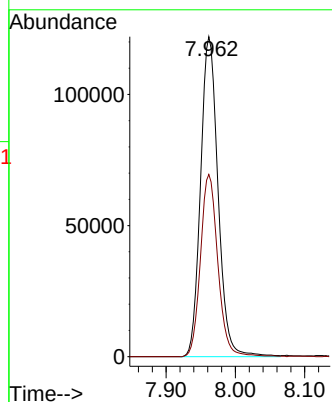
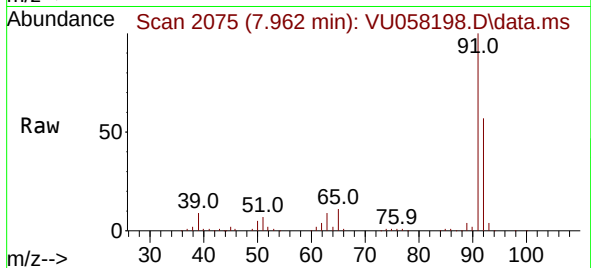
GCFZ7

Tgt Ion: 91 Resp: 214442

Ion Ratio Lower Upper

91 100

92 57.0 40.7 75.5



#47

Tetrachloroethene

Concen: 9.472 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. -0.000 min

Lab File: VU058198.D

Acq: 22 Mar 2024 17:58

Tgt Ion: 164 Resp: 37236

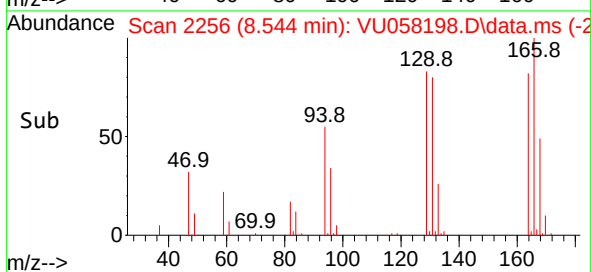
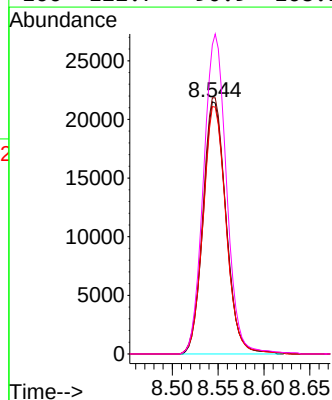
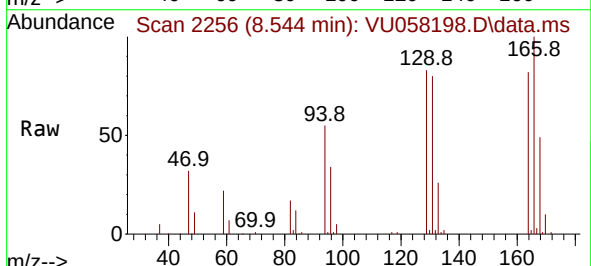
Ion Ratio Lower Upper

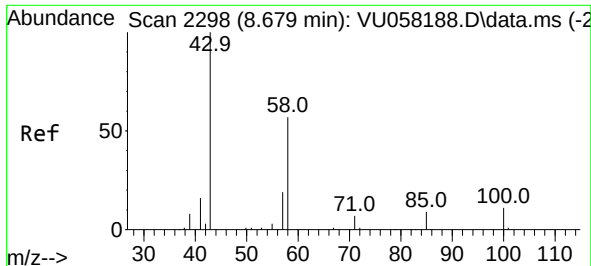
164 100

129 101.6 71.3 132.3

131 98.1 70.8 131.4

166 122.7 90.9 168.9

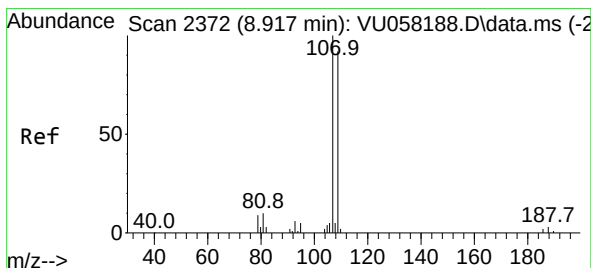
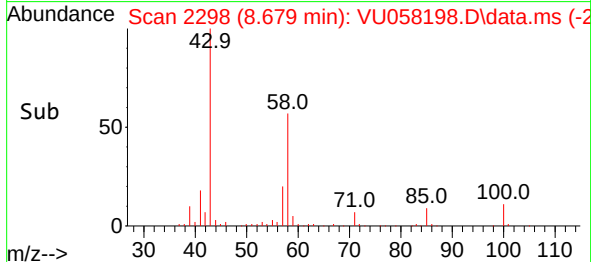
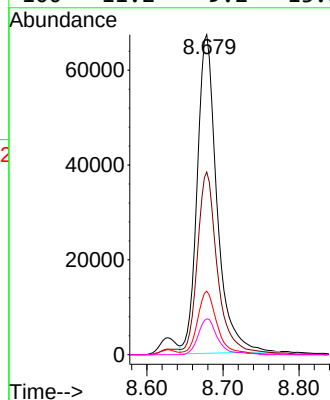
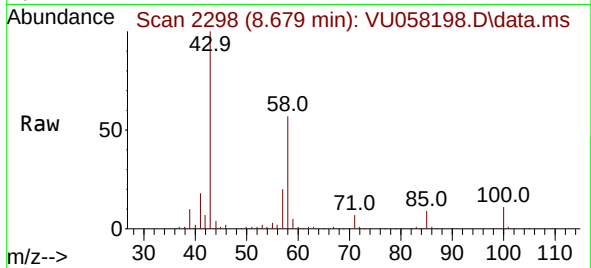




#48
2-Hexanone
Concen: 52.430 ug/L
RT: 8.679 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU058198.D
Acq: 22 Mar 2024 17:58

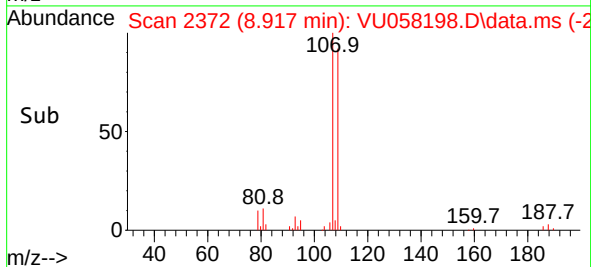
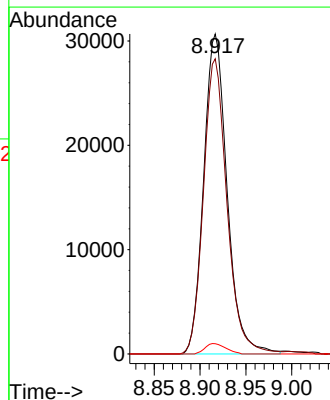
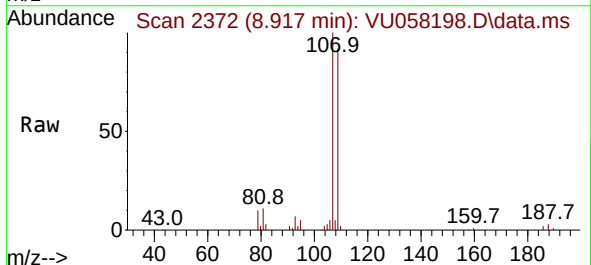
Instrument :
MSVOA_U
ClientSampleId :
GCFZ7

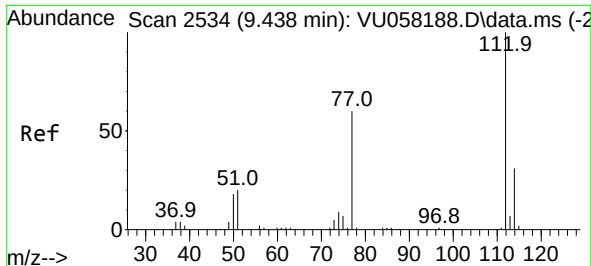
Tgt Ion:	43	Resp:	121505
Ion	Ratio	Lower	Upper
43	100		
58	58.4	48.3	72.5
57	19.6	16.3	24.5
100	11.2	9.2	13.8



#50
1,2-Dibromoethane
Concen: 15.997 ug/L
RT: 8.917 min Scan# 2372
Delta R.T. -0.000 min
Lab File: VU058198.D
Acq: 22 Mar 2024 17:58

Tgt Ion:	107	Resp:	54589
Ion	Ratio	Lower	Upper
107	100		
109	92.2	67.8	125.8
188	3.2	2.5	3.7

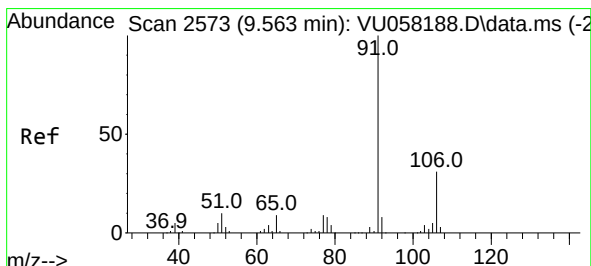
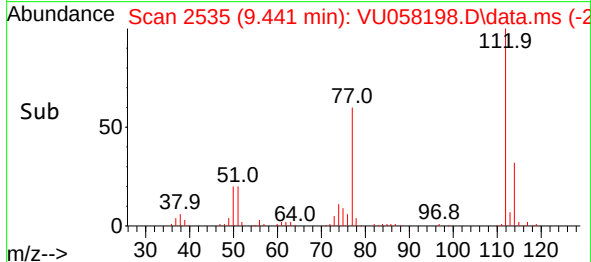
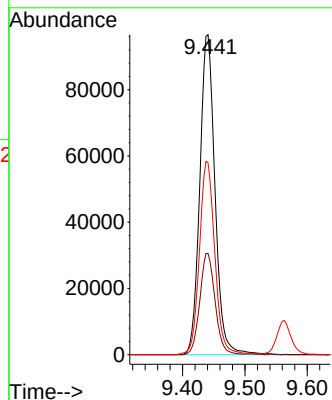
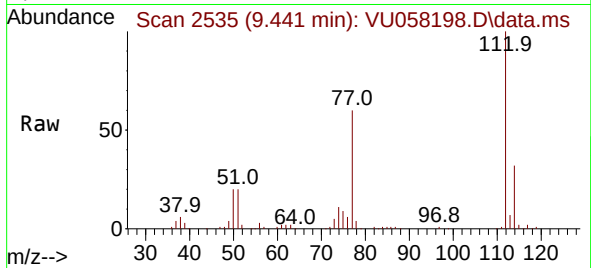




#51
Chlorobenzene
Concen: 10.685 ug/L
RT: 9.441 min Scan# 2535
Delta R.T. 0.003 min
Lab File: VU058198.D
Acq: 22 Mar 2024 17:58

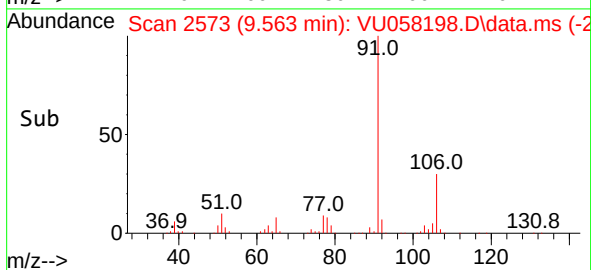
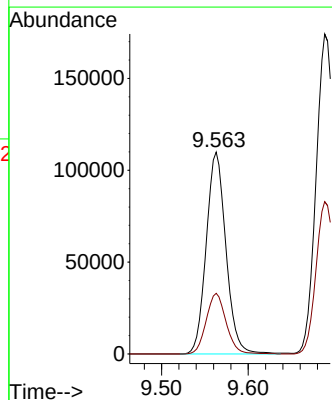
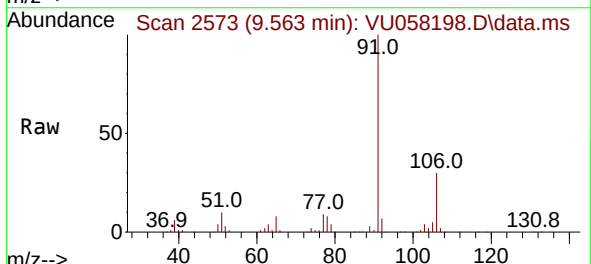
Instrument :
MSVOA_U
ClientSampleId :
GCFZ7

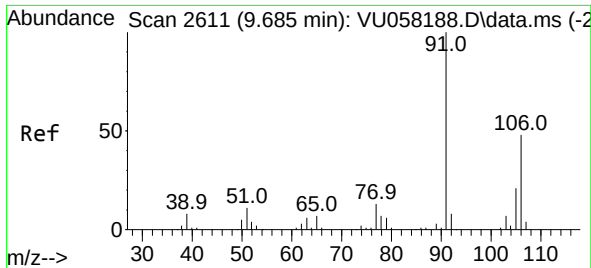
Tgt Ion:112 Resp: 163880
Ion Ratio Lower Upper
112 100
114 31.7 22.7 42.3
77 60.0 48.9 73.3



#52
Ethylbenzene
Concen: 6.539 ug/L
RT: 9.563 min Scan# 2573
Delta R.T. -0.000 min
Lab File: VU058198.D
Acq: 22 Mar 2024 17:58

Tgt Ion: 91 Resp: 173814
Ion Ratio Lower Upper
91 100
106 30.0 20.6 38.2

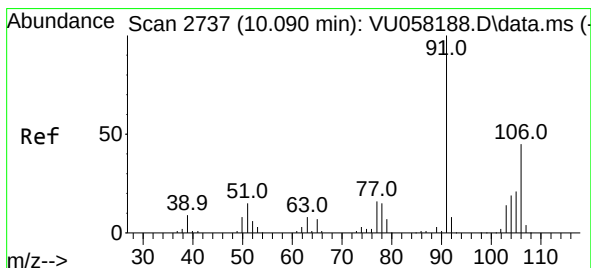
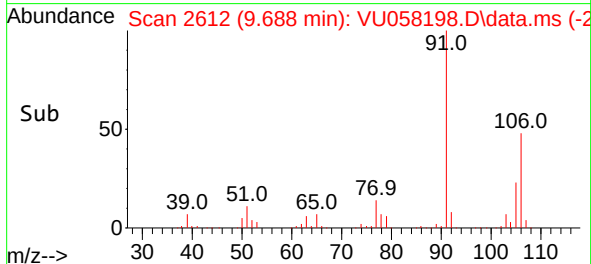
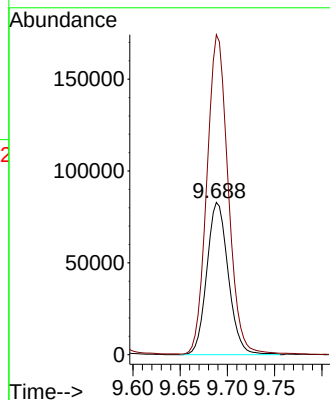
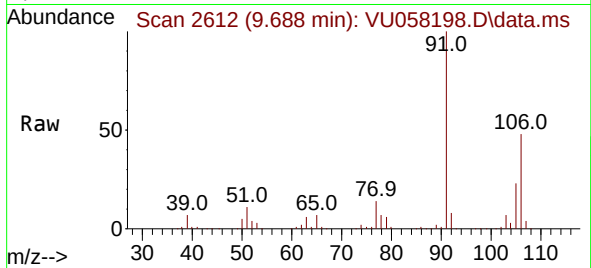




#53
m,p-Xylene
Concen: 13.820 ug/L
RT: 9.688 min Scan# 2611
Delta R.T. 0.003 min
Lab File: VU058198.D
Acq: 22 Mar 2024 17:58

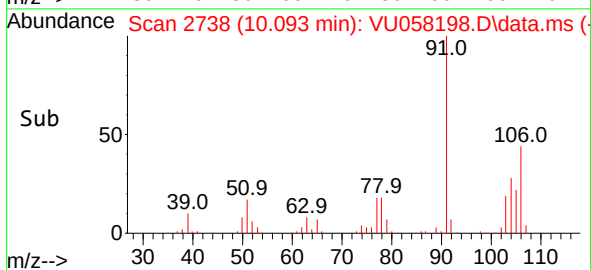
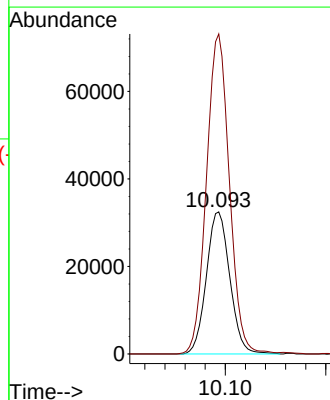
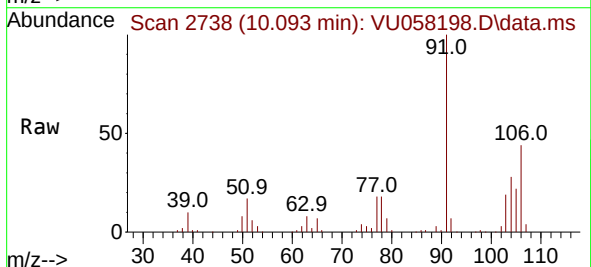
Instrument :
MSVOA_U
ClientSampleId :
GCFZ7

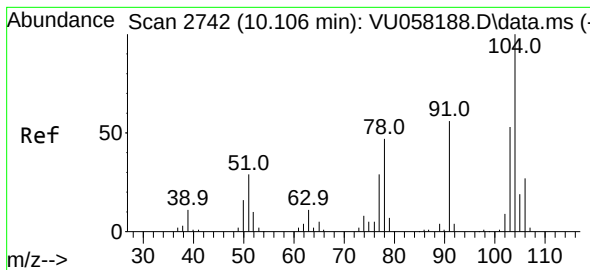
Tgt Ion:106 Resp: 130881
Ion Ratio Lower Upper
106 100
91 210.1 151.0 280.4



#54
o-Xylene
Concen: 5.498 ug/L
RT: 10.093 min Scan# 2738
Delta R.T. 0.003 min
Lab File: VU058198.D
Acq: 22 Mar 2024 17:58

Tgt Ion:106 Resp: 52561
Ion Ratio Lower Upper
106 100
91 225.1 154.3 286.7





#55

Styrene

Concen: 5.641 ug/L

RT: 10.106 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU058198.D

Acq: 22 Mar 2024 17:58

Instrument :

MSVOA_U

ClientSampleId :

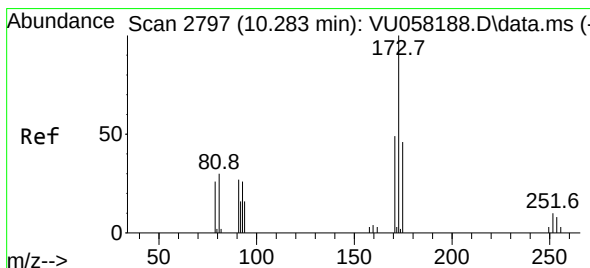
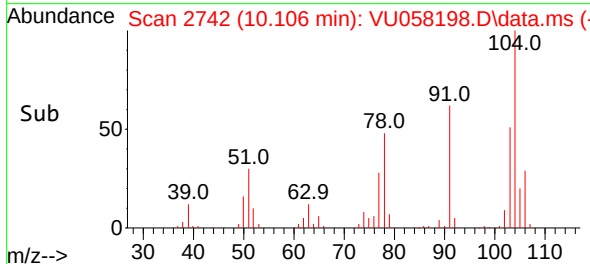
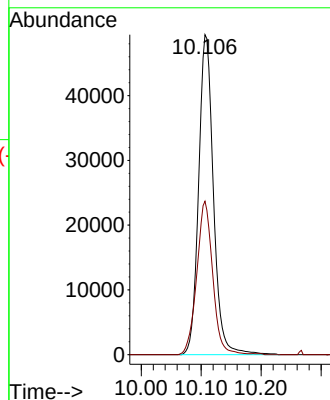
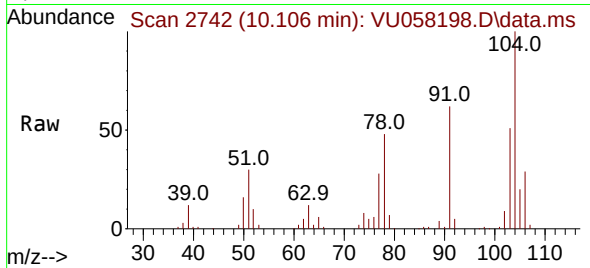
GCFZ7

Tgt Ion:104 Resp: 85144

Ion Ratio Lower Upper

104 100

78 47.9 34.5 64.1



#59

Bromoform

Concen: 5.118 ug/L

RT: 10.283 min Scan# 2797

Delta R.T. -0.000 min

Lab File: VU058198.D

Acq: 22 Mar 2024 17:58

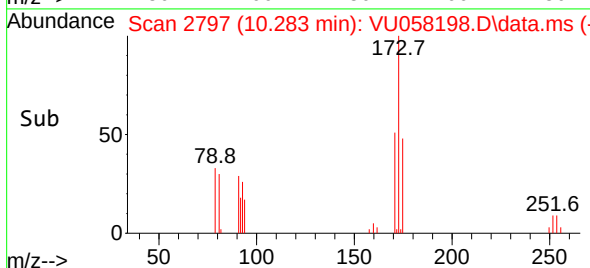
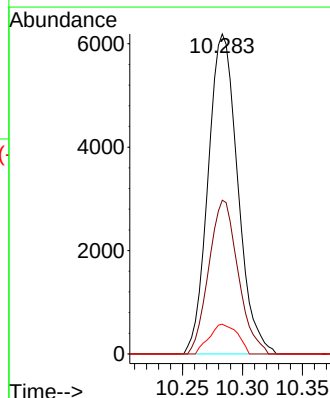
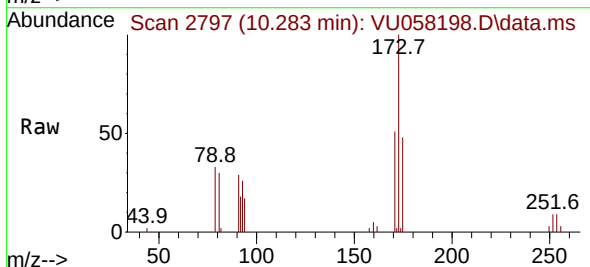
Tgt Ion:173 Resp: 10615

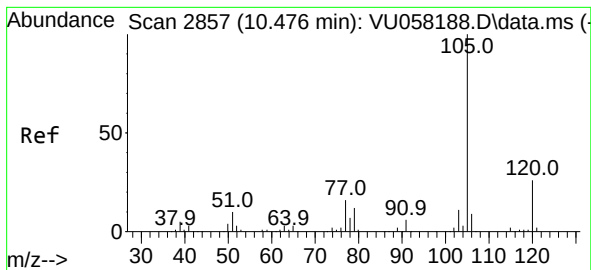
Ion Ratio Lower Upper

173 100

175 47.5 40.9 61.3

254 8.8 5.8 8.8#





#60

Isopropylbenzene

Concen: 3.580 ug/L

RT: 10.476 min Scan# 2857

Delta R.T. -0.000 min

Lab File: VU058198.D

Acq: 22 Mar 2024 17:58

Instrument :

MSVOA_U

ClientSampleId :

GCFZ7

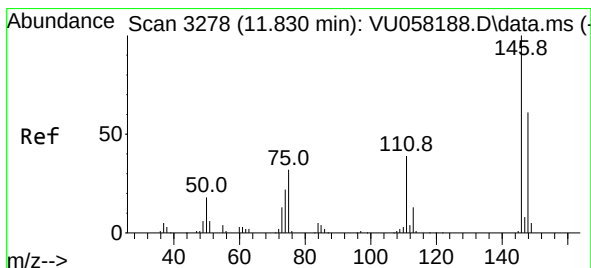
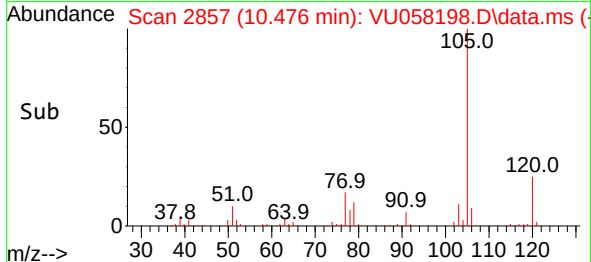
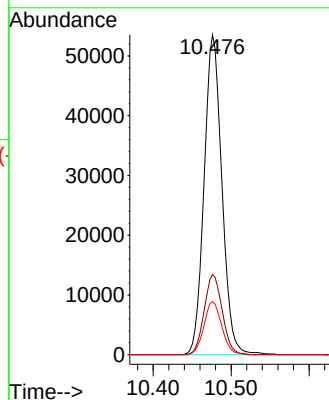
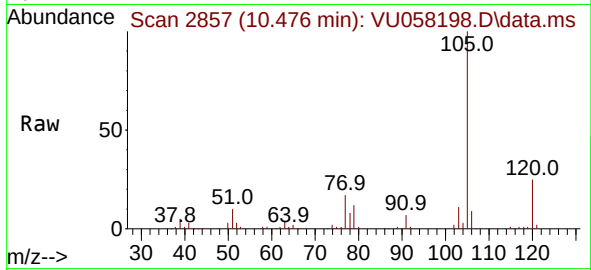
Tgt Ion:105 Resp: 84921

Ion Ratio Lower Upper

105 100

120 25.3 20.5 30.7

77 16.6 13.2 19.8



#65

1,4-Dichlorobenzene

Concen: 4.336 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. -0.000 min

Lab File: VU058198.D

Acq: 22 Mar 2024 17:58

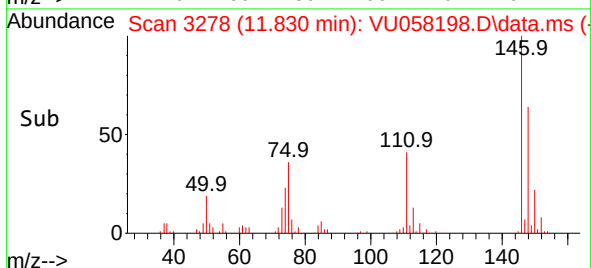
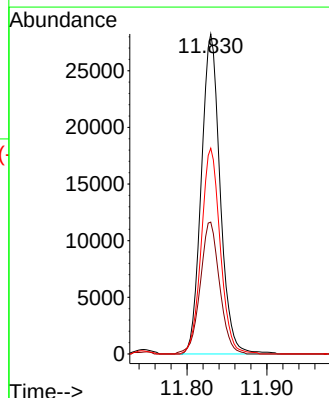
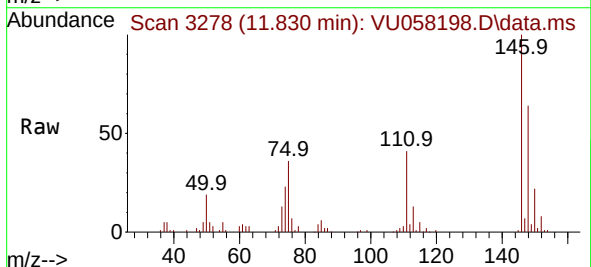
Tgt Ion:146 Resp: 46306

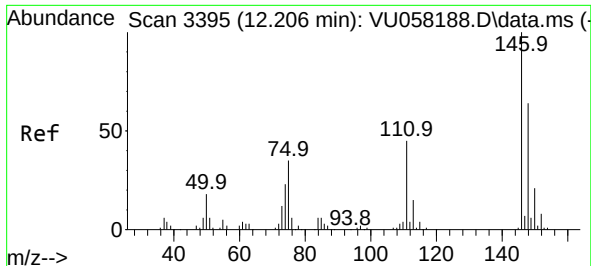
Ion Ratio Lower Upper

146 100

111 41.2 29.0 53.8

148 64.3 44.5 82.7





#67

1,2-Dichlorobenzene

Concen: 11.766 ug/L

RT: 12.206 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU058198.D

Acq: 22 Mar 2024 17:58

Instrument :

MSVOA_U

ClientSampleId :

GCFZ7

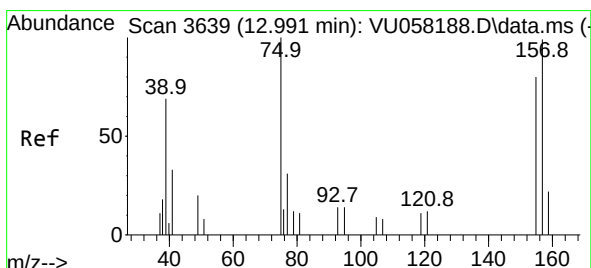
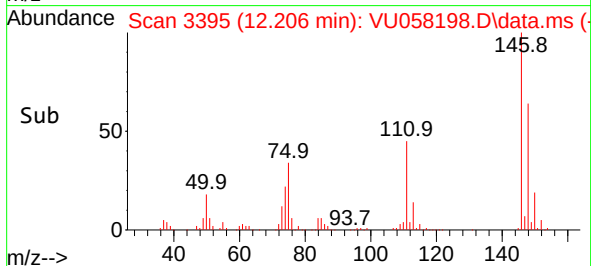
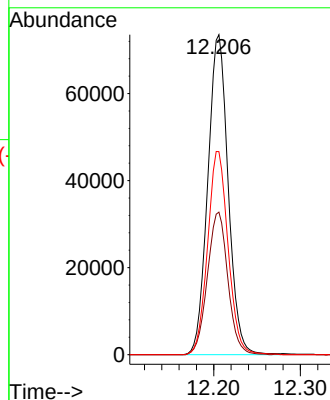
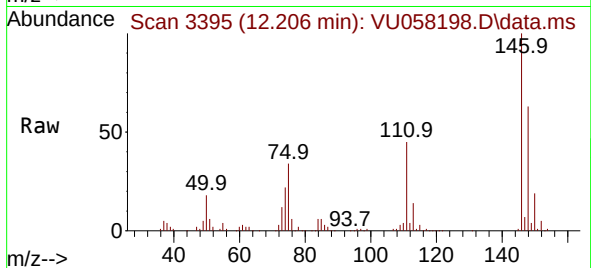
Tgt Ion:146 Resp: 120213

Ion Ratio Lower Upper

146 100

111 44.6 35.9 53.9

148 63.5 52.4 78.6



#68

1,2-Dibromo-3-chloropropane

Concen: 4.468 ug/L

RT: 12.994 min Scan# 3640

Delta R.T. 0.003 min

Lab File: VU058198.D

Acq: 22 Mar 2024 17:58

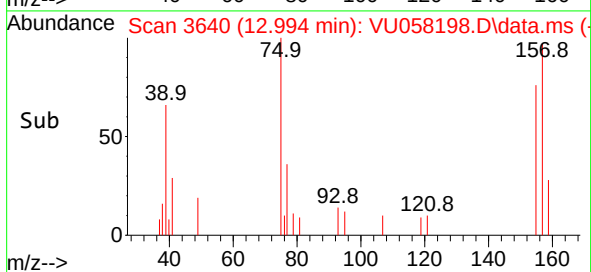
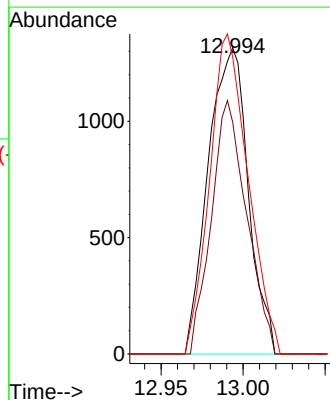
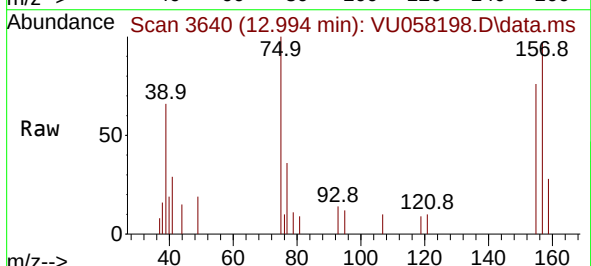
Tgt Ion: 75 Resp: 2228

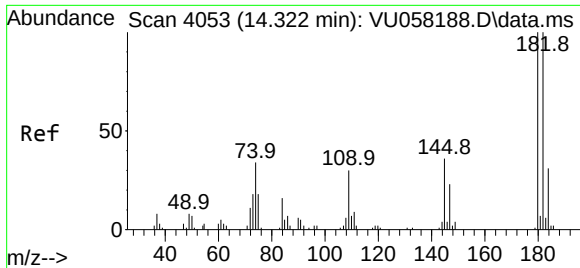
Ion Ratio Lower Upper

75 100

155 75.7 60.2 90.2

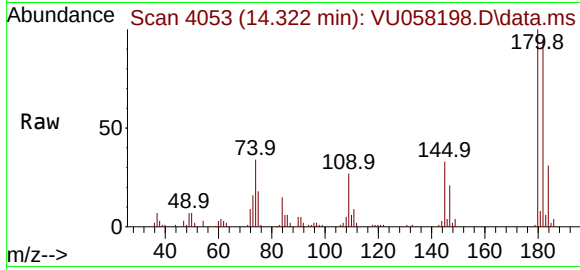
157 97.0 82.6 123.8





#72
 1,2,3-Trichlorobenzene
 Concen: 10.576 ug/L
 RT: 14.322 min Scan# 40
 Delta R.T. -0.000 min
 Lab File: VU058198.D
 Acq: 22 Mar 2024 17:58

Instrument :
 MSVOA_U
 ClientSampleId :
 GCFZ7



Tgt Ion:180 Resp: 49900
 Ion Ratio Lower Upper
 180 100
 182 94.7 74.4 111.6
 145 32.9 26.3 39.5

