

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071224\
 Data File : VU059930.D
 Acq On : 12 Jul 2024 18:33
 Operator : MD/SY
 Sample : P3217-16
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 13 04:00:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR061724WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Jul 13 03:52:33 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.261	114	196862	5.000	ug/L	0.02
28) Chlorobenzene-d5	9.415	117	196108	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	103947	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.599	65	57495	4.200	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.000%
7) Chloroethane-d5	1.923	69	47589	3.613	ug/L	0.01
Spiked Amount	5.000	Range	65 - 130	Recovery	=	72.200%
11) 1,1-Dichloroethene-d2	2.566	65	29454	5.186	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	103.800%
20) 2-Butanone-d5	4.727	46	119494	42.378	ug/L	0.10
Spiked Amount	50.000	Range	40 - 130	Recovery	=	84.760%
24) Chloroform-d	5.084	84	101881	3.626	ug/L	0.03
Spiked Amount	5.000	Range	70 - 125	Recovery	=	72.600%
26) 1,2-Dichloroethane-d4	5.721	65	51633	3.815	ug/L	0.03
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.200%
32) Benzene-d6	5.740	84	212234	3.932	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	78.600%
36) 1,2-Dichloropropane-d6	6.701	67	65215	3.943	ug/L	0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	78.800%
41) Toluene-d8	7.901	98	192842	3.843	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.800%
43) trans-1,3-Dichloroprop...	8.184	79	22783	4.399	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.000%
46) 2-Hexanone-d5	8.640	63	103480	48.091	ug/L	0.01
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.180%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	53596	3.922	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	78.400%
66) 1,2-Dichlorobenzene-d4	12.187	152	79947	4.321	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.400%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	9295	0.469	ug/L #	76
8) Chloroethane	1.943	64	7479	0.626	ug/L	90
12) 1,1-Dichloroethene	2.579	96	4541	0.325	ug/L #	1
13) Acetone	2.743	43	187347	102.426	ug/L	93
14) Carbon disulfide	2.792	76	5615	0.121	ug/L #	67
15) Methyl Acetate	2.743	43	179108	37.107	ug/L #	51
19) 1,1-Dichloroethane	3.894	63	23091	0.862	ug/L	97
21) 2-Butanone	4.795	43	413222	140.849	ug/L	93
22) cis-1,2-Dichloroethene	4.692	96	24630	1.539	ug/L	95
30) Cyclohexane	5.399	56	1760	0.088	ug/L	96
33) Benzene	5.791	78	31076	0.522	ug/L	100
37) 1,2-Dichloropropane	6.701	63	6568	0.426	ug/L #	90
42) Toluene	7.971	91	7662	0.122	ug/L	93
48) 2-Hexanone	8.695	43	33839	6.640	ug/L #	95
51) Chlorobenzene	9.447	112	47349	1.184	ug/L	94
53) m,p-Xylene	9.695	106	3192	0.129	ug/L	98
60) Isopropylbenzene	10.483	105	7465	0.116	ug/L #	82
61) 1,2,3-Trichloropropane	11.807	75	12407	1.292	ug/L #	76
62) 1,3,5-Trimethylbenzene	11.466	105	4652	0.091	ug/L	93

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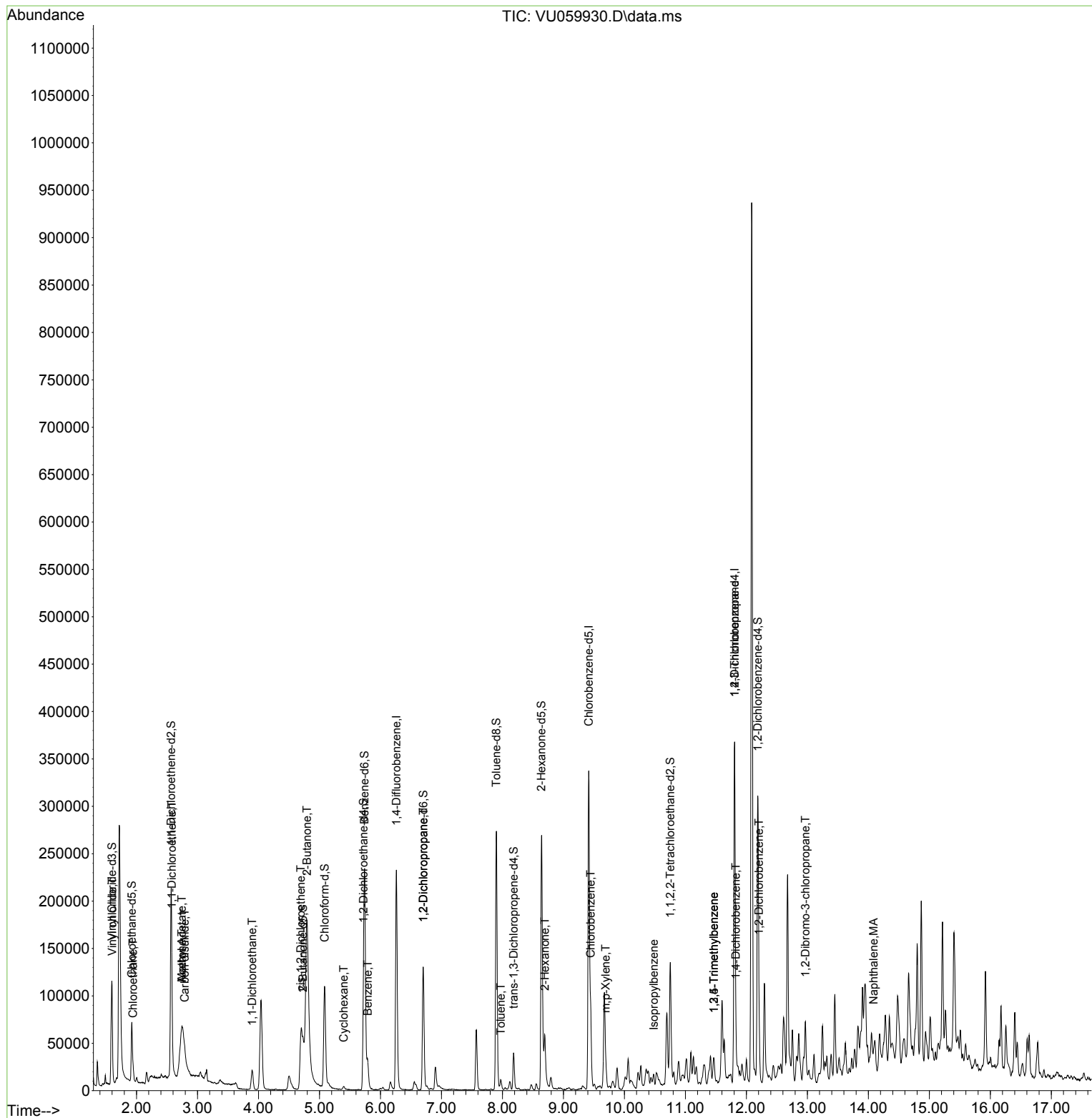
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	11.466	105	4652	0.096	ug/L	99
65) 1,4-Dichlorobenzene	11.830	146	7167	0.213	ug/L	92
67) 1,2-Dichlorobenzene	12.206	146	13870	0.451	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.968	75	199	0.106	ug/L #	6
71) Naphthalene	14.087	128	14638	0.551	ug/L #	57

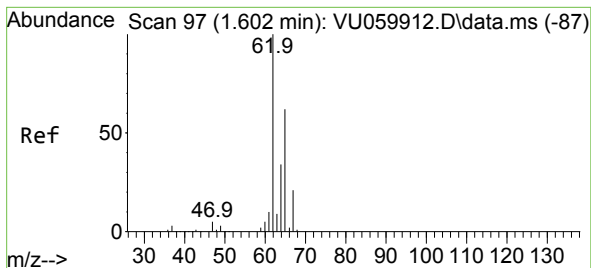
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.469 ug/L

RT: 1.602 min Scan# 91

Delta R.T. 0.000 min

Lab File: VU059930.D

Acq: 12 Jul 2024 18:33

Instrument :

MSVOA_U

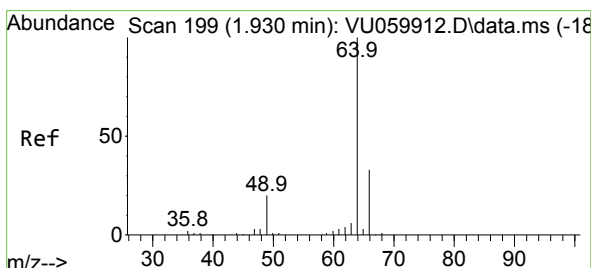
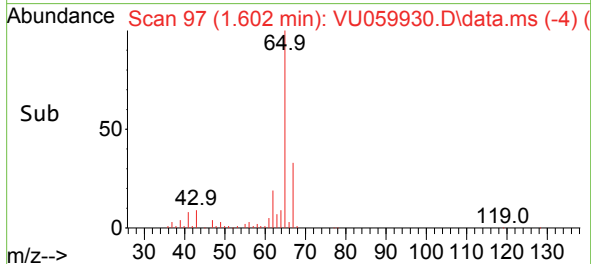
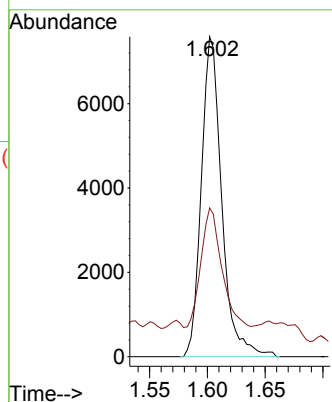
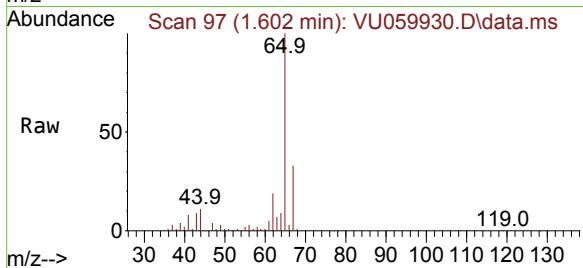
ClientSampleId :

Tgt Ion: 62 Resp: 9295

Ion Ratio Lower Upper

62 100

64 46.5 23.1 42.9#



#8

Chloroethane

Concen: 0.626 ug/L

RT: 1.943 min Scan# 203

Delta R.T. 0.013 min

Lab File: VU059930.D

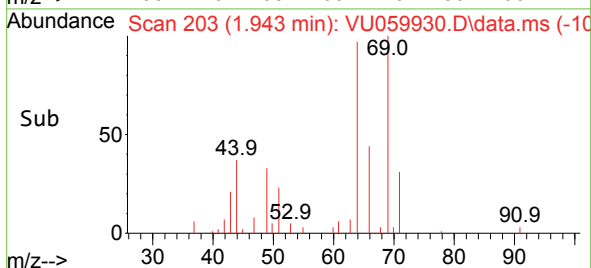
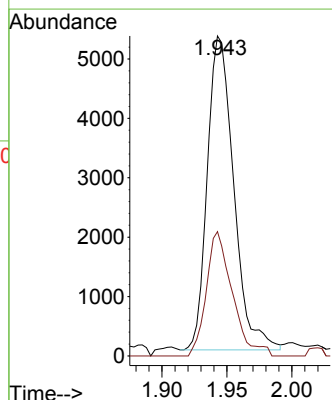
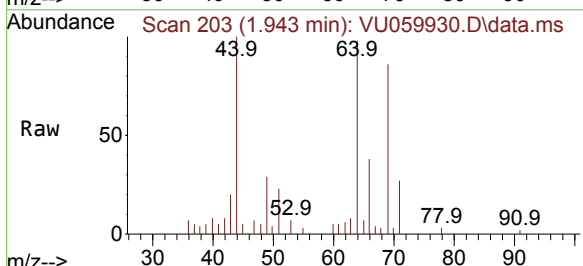
Acq: 12 Jul 2024 18:33

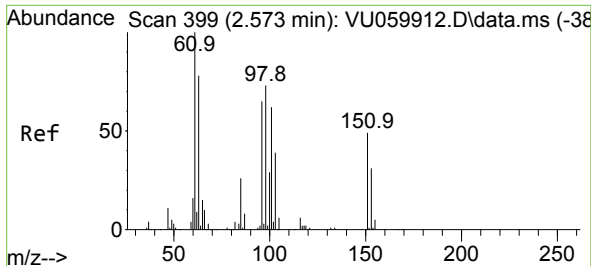
Tgt Ion: 64 Resp: 7479

Ion Ratio Lower Upper

64 100

66 38.8 23.2 43.2

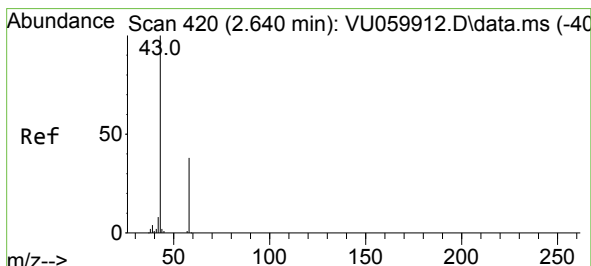
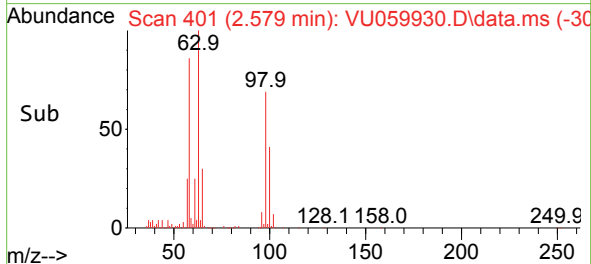
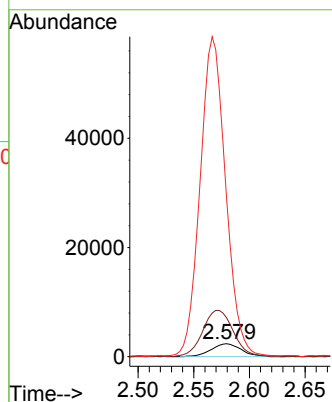
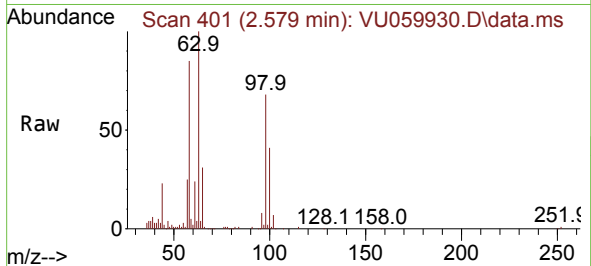




#12
1,1-Dichloroethene
Concen: 0.325 ug/L
RT: 2.579 min Scan# 401
Delta R.T. 0.006 min
Lab File: VU059930.D
Acq: 12 Jul 2024 18:33

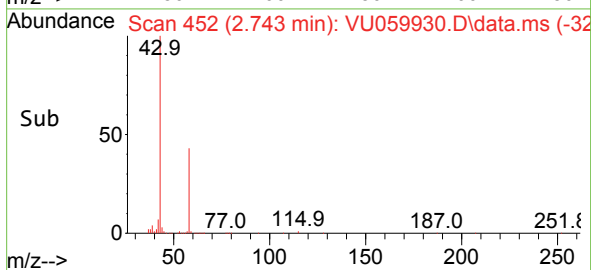
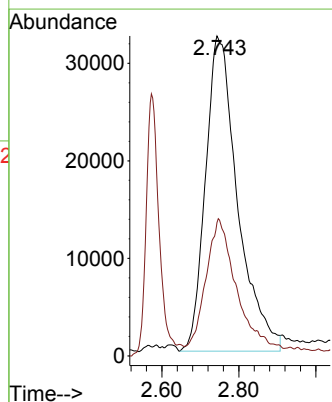
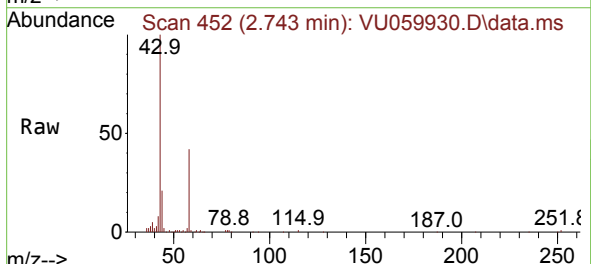
Instrument :
MSVOA_U
ClientSampleId :

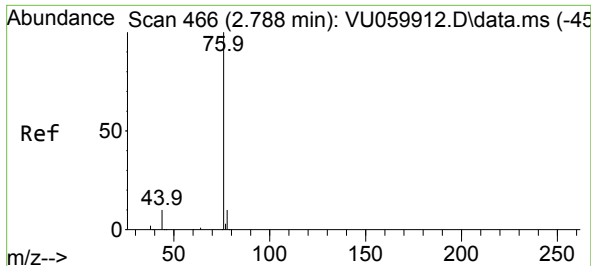
Tgt Ion: 96 Resp: 4541
Ion Ratio Lower Upper
96 100
61 299.6 122.9 228.3#
63 1229.0 80.4 149.4#



#13
Acetone
Concen: 102.426 ug/L
RT: 2.743 min Scan# 452
Delta R.T. 0.103 min
Lab File: VU059930.D
Acq: 12 Jul 2024 18:33

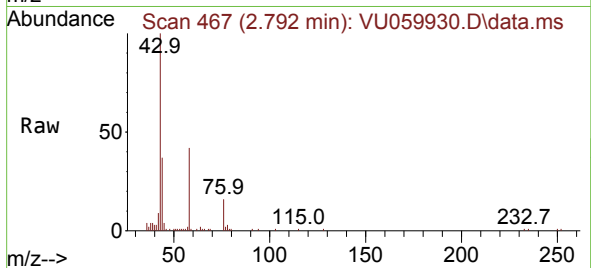
Tgt Ion: 43 Resp: 187347
Ion Ratio Lower Upper
43 100
58 37.8 0.0 68.0



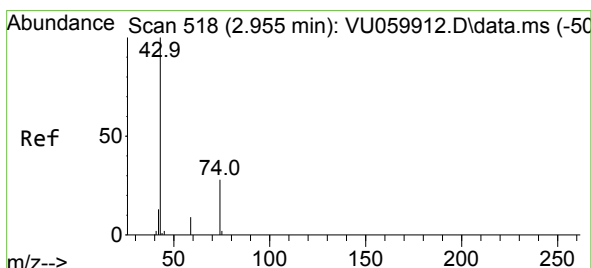
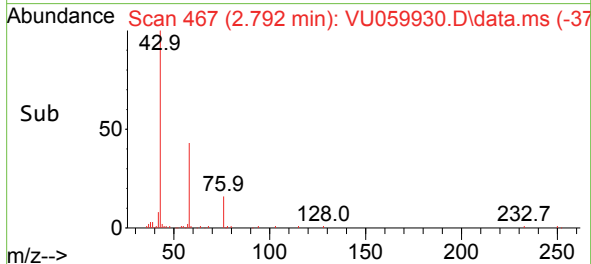
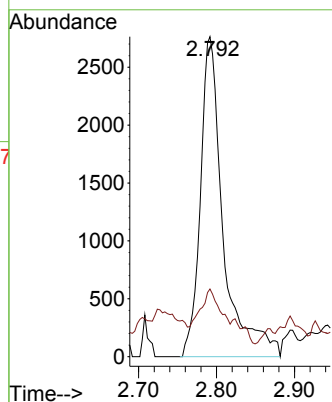


#14
Carbon disulfide
Concen: 0.121 ug/L
RT: 2.792 min Scan# 41
Delta R.T. 0.003 min
Lab File: VU059930.D
Acq: 12 Jul 2024 18:33

Instrument :
MSVOA_U
ClientSampleId :

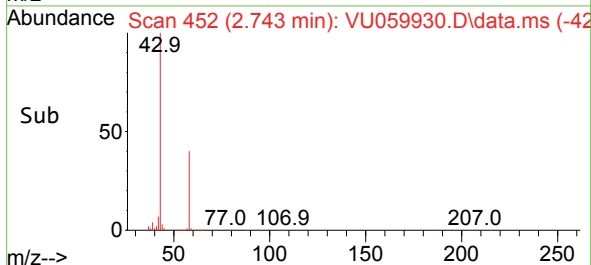
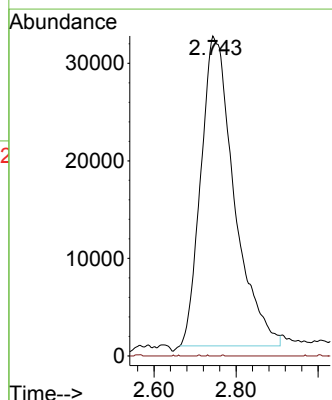
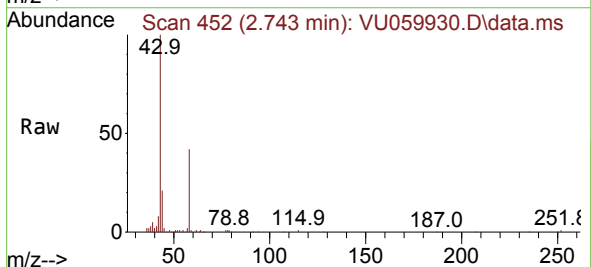


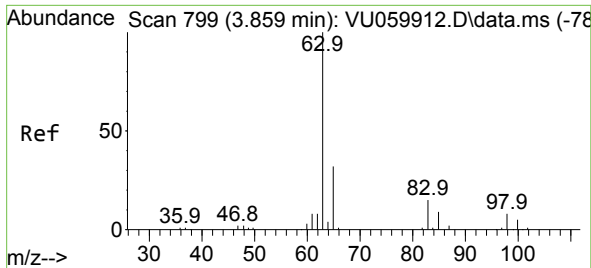
Tgt Ion: 76 Resp: 5615
Ion Ratio Lower Upper
76 100
78 21.1 7.3 10.9#



#15
Methyl Acetate
Concen: 37.107 ug/L
RT: 2.743 min Scan# 452
Delta R.T. -0.212 min
Lab File: VU059930.D
Acq: 12 Jul 2024 18:33

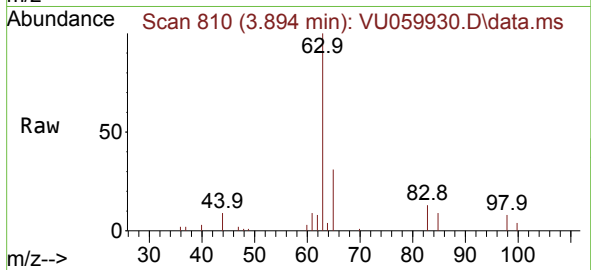
Tgt Ion: 43 Resp: 179108
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



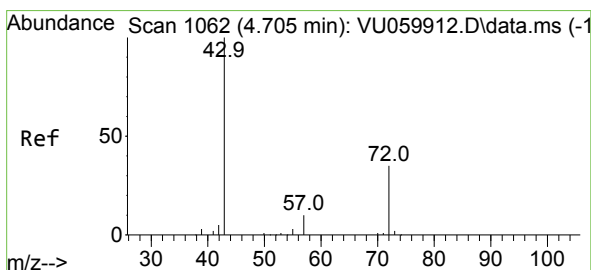
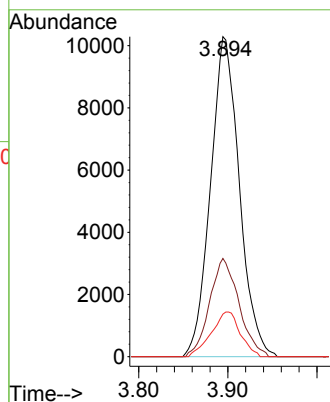
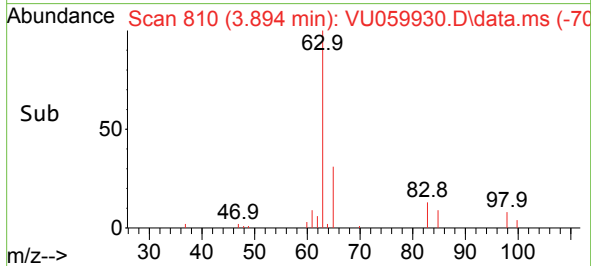


#19
1,1-Dichloroethane
Concen: 0.862 ug/L
RT: 3.894 min Scan# 81
Delta R.T. 0.035 min
Lab File: VU059930.D
Acq: 12 Jul 2024 18:33

Instrument :
MSVOA_U
ClientSampleId :

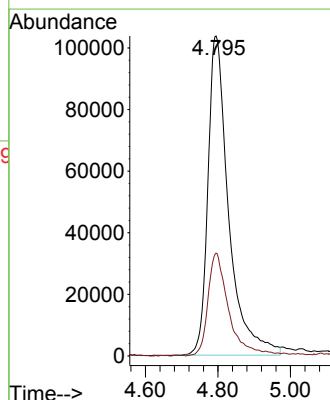
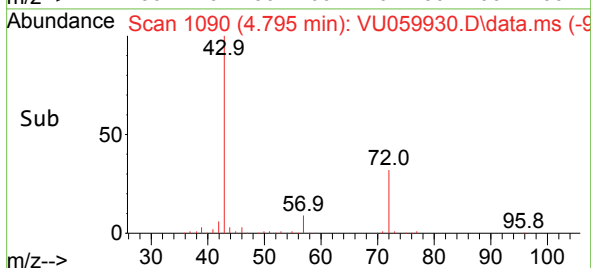
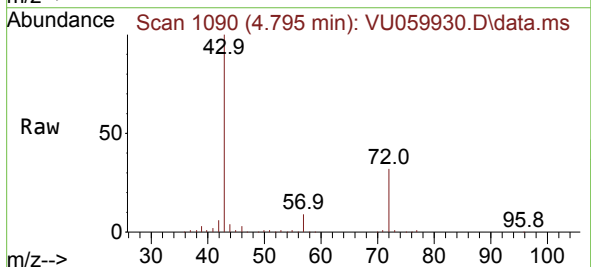


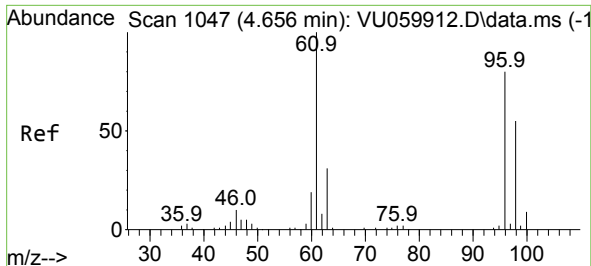
Tgt Ion: 63 Resp: 23091
Ion Ratio Lower Upper
63 100
65 29.4 21.8 40.6
83 12.8 9.9 18.5



#21
2-Butanone
Concen: 140.849 ug/L
RT: 4.795 min Scan# 1090
Delta R.T. 0.090 min
Lab File: VU059930.D
Acq: 12 Jul 2024 18:33

Tgt Ion: 43 Resp: 413222
Ion Ratio Lower Upper
43 100
72 31.5 13.8 41.4





#22

cis-1,2-Dichloroethene

Concen: 1.539 ug/L

RT: 4.692 min Scan# 1058

Delta R.T. 0.035 min

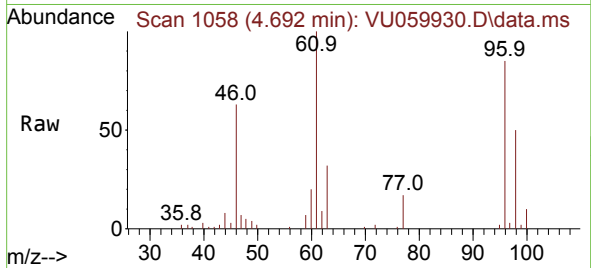
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Acq: 12 Jul 2024 18:33

Instrument :

MSVOA_U

ClientSampleId :



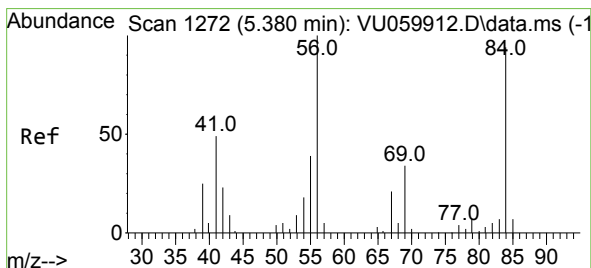
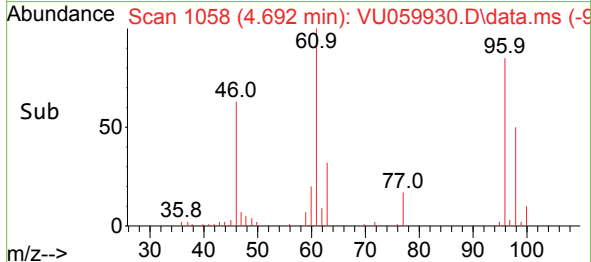
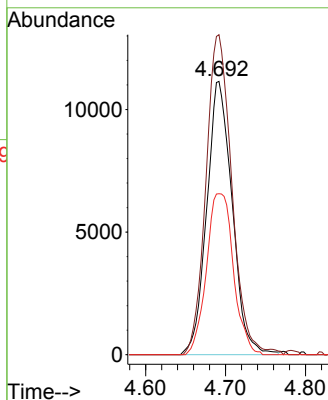
Tgt Ion: 96 Resp: 24630

Ion Ratio Lower Upper

96 100

61 117.1 87.4 162.2

98 58.9 42.3 78.5



#30

Cyclohexane

Concen: 0.088 ug/L

RT: 5.399 min Scan# 1278

Delta R.T. 0.019 min

Lab File: VU059930.D

Acq: 12 Jul 2024 18:33

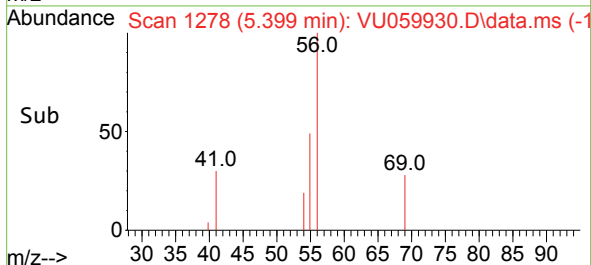
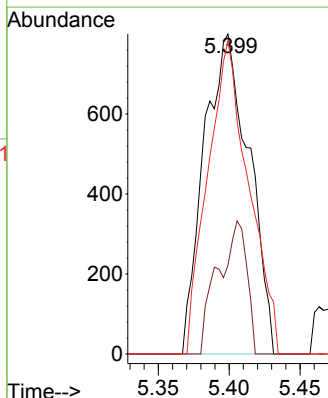
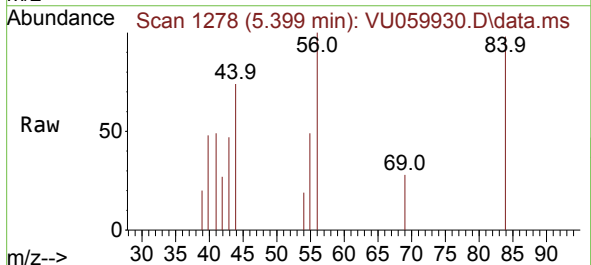
Tgt Ion: 56 Resp: 1760

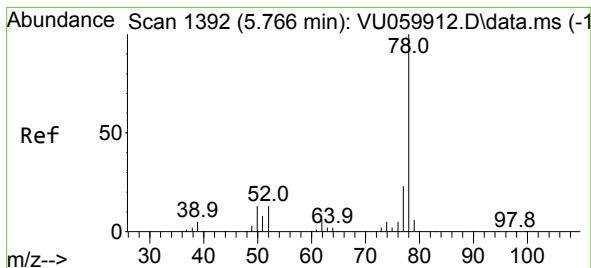
Ion Ratio Lower Upper

56 100

69 26.6 24.8 37.2

84 89.1 69.8 104.8





#33

Benzene

Concen: 0.522 ug/L

RT: 5.791 min Scan# 14

Delta R.T. 0.026 min

Lab File: VU059930.D

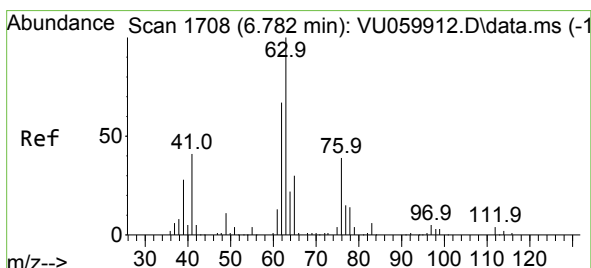
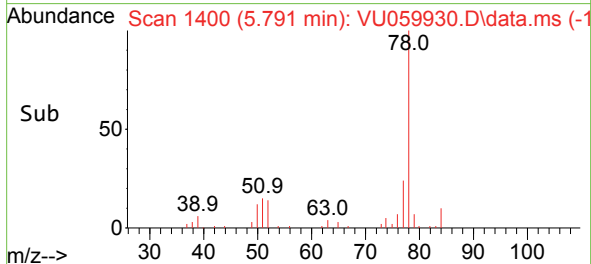
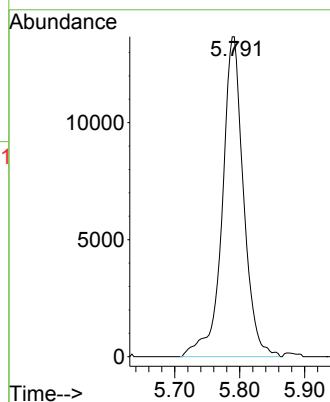
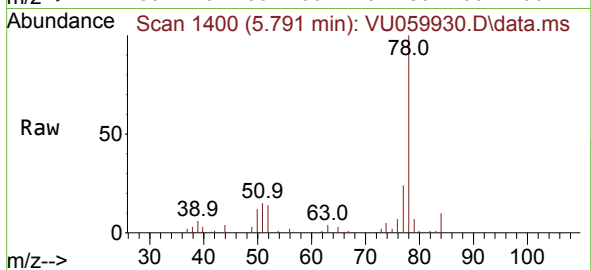
Acq: 12 Jul 2024 18:33

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 31076



#37

1,2-Dichloropropane

Concen: 0.426 ug/L

RT: 6.701 min Scan# 1683

Delta R.T. -0.080 min

Lab File: VU059930.D

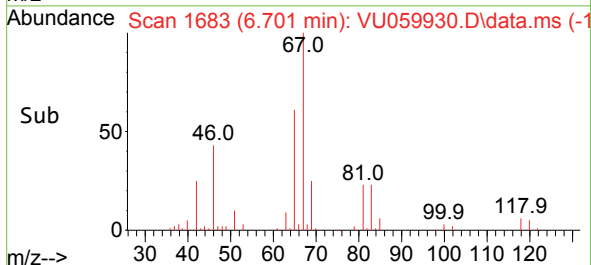
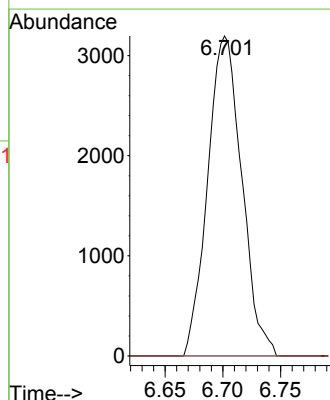
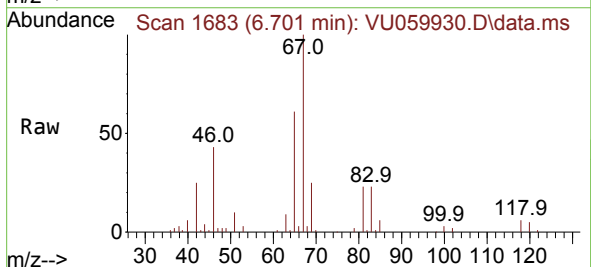
Acq: 12 Jul 2024 18:33

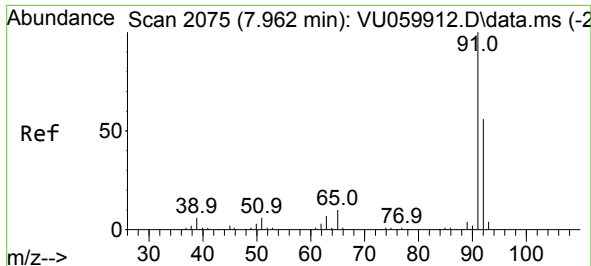
Tgt Ion: 63 Resp: 6568

Ion Ratio Lower Upper

63 100

112 0.0 2.6 3.8#





#42

Toluene

Concen: 0.122 ug/L

RT: 7.971 min Scan# 2075

Delta R.T. 0.010 min

Lab File: VU059930.D

Acq: 12 Jul 2024 18:33

Instrument :

MSVOA_U

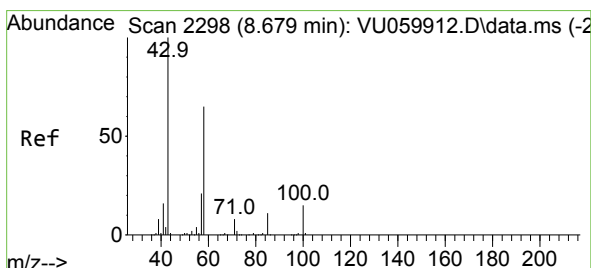
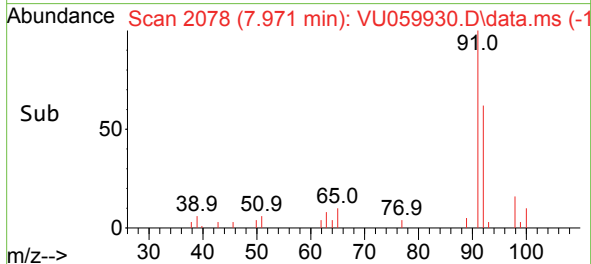
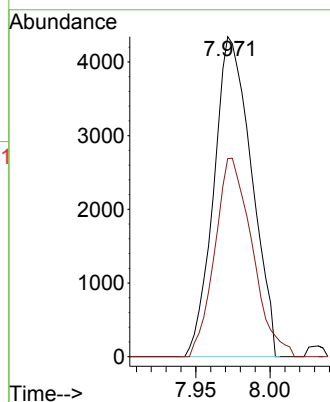
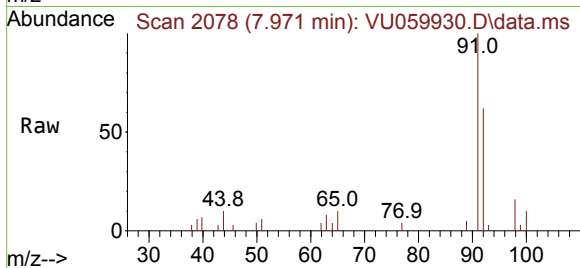
ClientSampleId :

Tgt Ion: 91 Resp: 7662

Ion Ratio Lower Upper

91 100

92 61.9 39.7 73.7



#48

2-Hexanone

Concen: 6.640 ug/L

RT: 8.695 min Scan# 2303

Delta R.T. 0.016 min

Lab File: VU059930.D

Acq: 12 Jul 2024 18:33

Tgt Ion: 43 Resp: 33839

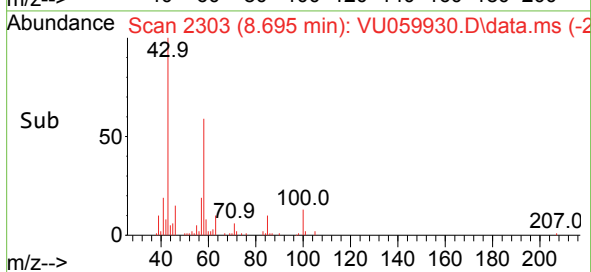
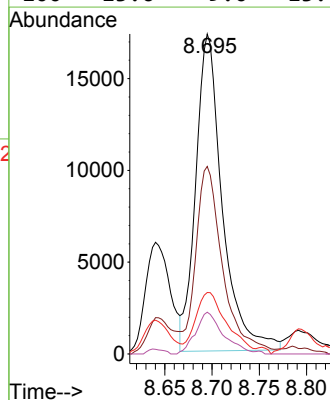
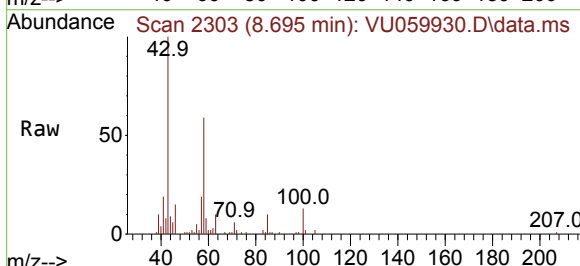
Ion Ratio Lower Upper

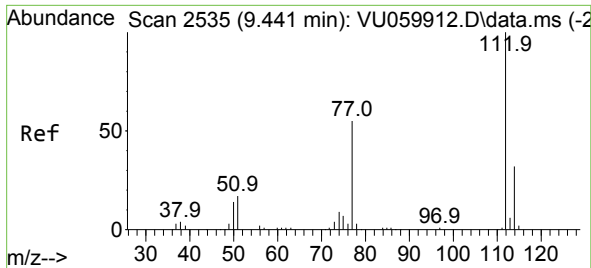
43 100

58 60.1 46.1 69.1

57 22.9 15.5 23.3

100 13.6 9.0 13.6#

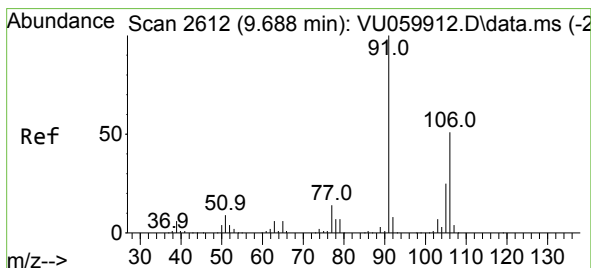
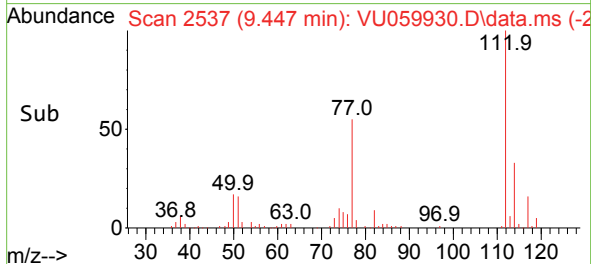
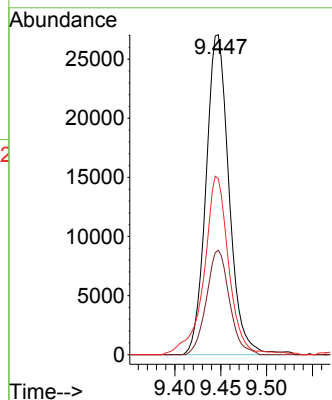
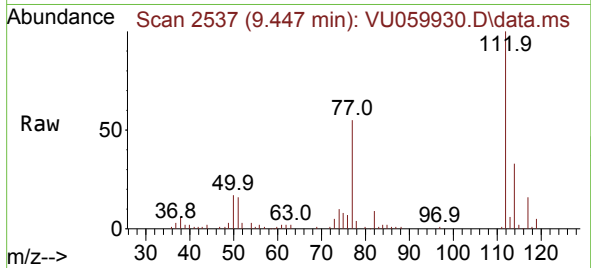




#51
Chlorobenzene
Concen: 1.184 ug/L
RT: 9.447 min Scan# 211
Delta R.T. 0.006 min
Lab File: VU059930.D
Acq: 12 Jul 2024 18:33

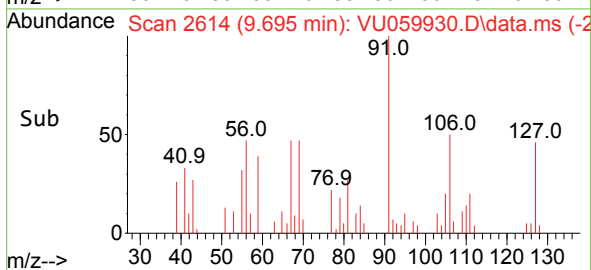
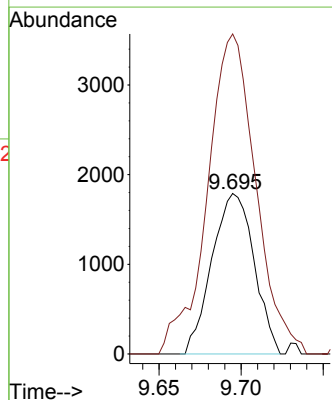
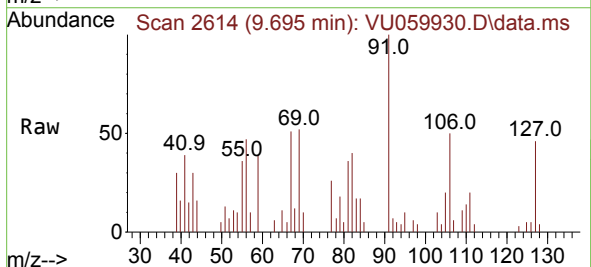
Instrument :
MSVOA_U
ClientSampleId :

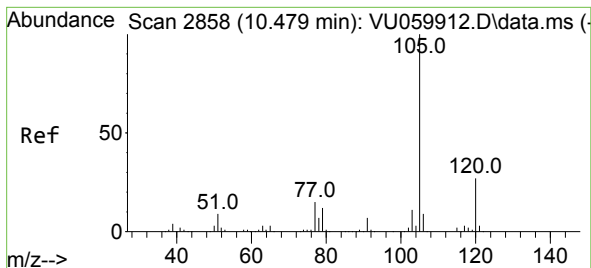
Tgt Ion:112 Resp: 47349
Ion Ratio Lower Upper
112 100
114 32.7 22.4 41.6
77 55.0 49.1 73.7



#53
m,p-Xylene
Concen: 0.129 ug/L
RT: 9.695 min Scan# 2614
Delta R.T. 0.006 min
Lab File: VU059930.D
Acq: 12 Jul 2024 18:33

Tgt Ion:106 Resp: 3192
Ion Ratio Lower Upper
106 100
91 199.4 142.0 263.8





#60

Isopropylbenzene

Concen: 0.116 ug/L

RT: 10.483 min Scan# 21

Delta R.T. 0.003 min

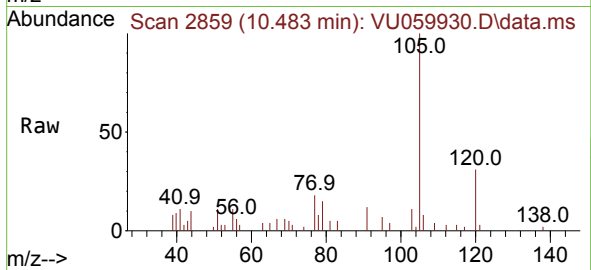
Lab File: VU059930.D

Acq: 12 Jul 2024 18:33

Instrument :

MSVOA_U

ClientSampleId :



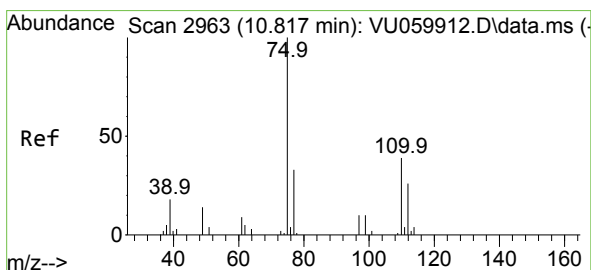
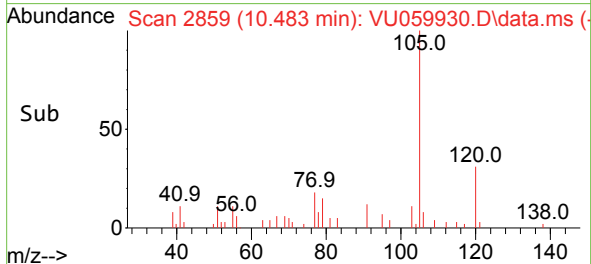
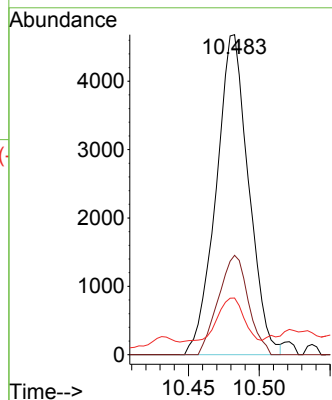
Tgt Ion:105 Resp: 7465

Ion Ratio Lower Upper

105 100

120 28.6 20.6 31.0

77 0.0 12.8 19.2#



#61

1,2,3-Trichloropropane

Concen: 1.292 ug/L

RT: 11.807 min Scan# 3271

Delta R.T. 0.990 min

Lab File: VU059930.D

Acq: 12 Jul 2024 18:33

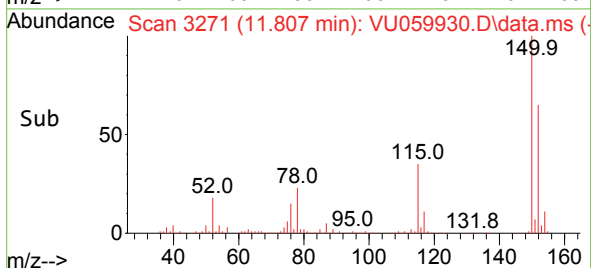
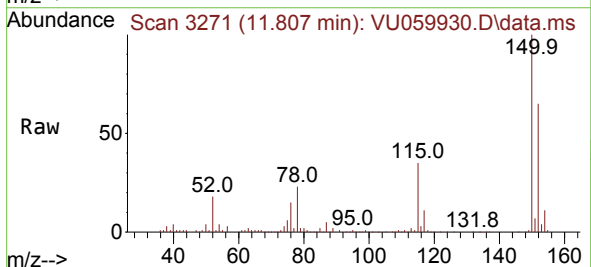
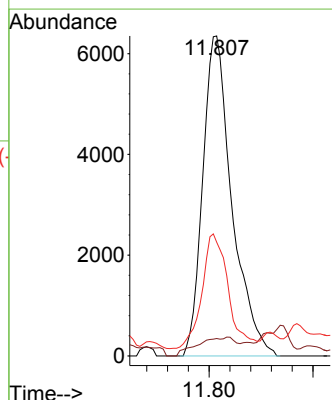
Tgt Ion: 75 Resp: 12407

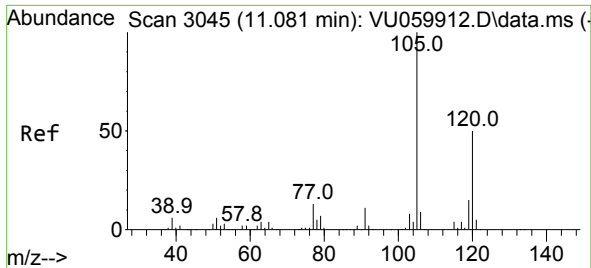
Ion Ratio Lower Upper

75 100

110 7.8 27.1 40.7#

77 31.9 25.4 38.2

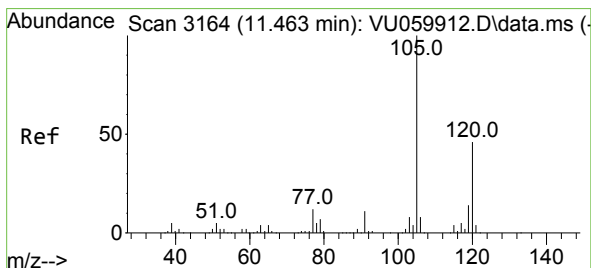
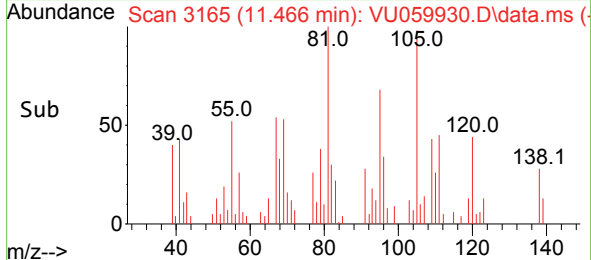
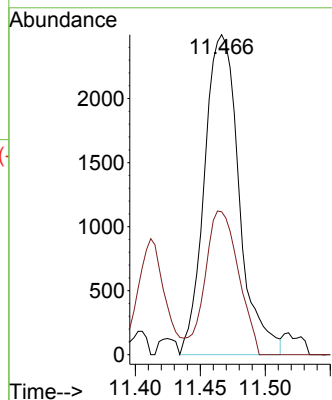
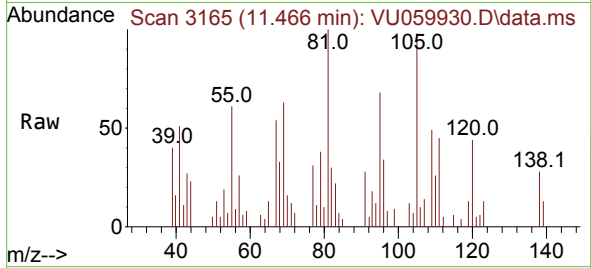




#62
1,3,5-Trimethylbenzene
Concen: 0.091 ug/L
RT: 11.466 min Scan# 3165
Delta R.T. 0.386 min
Lab File: VU059930.D
Acq: 12 Jul 2024 18:33

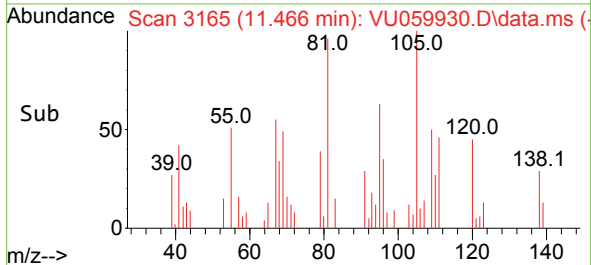
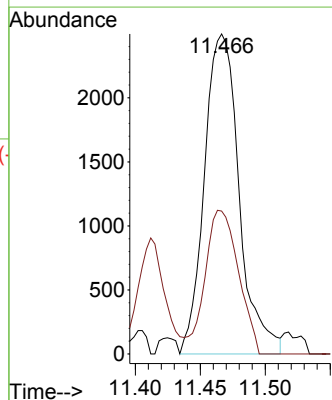
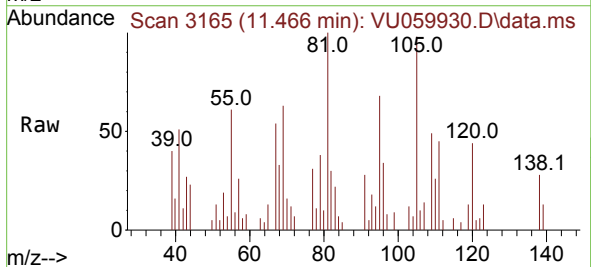
Instrument :
MSVOA_U
ClientSampleId :

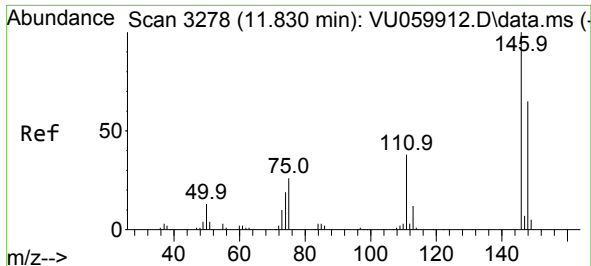
Tgt Ion:105 Resp: 4652
Ion Ratio Lower Upper
105 100
120 43.2 38.2 57.4



#63
1,2,4-Trimethylbenzene
Concen: 0.096 ug/L
RT: 11.466 min Scan# 3165
Delta R.T. 0.003 min
Lab File: VU059930.D
Acq: 12 Jul 2024 18:33

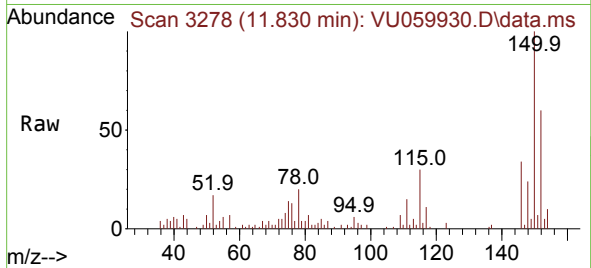
Tgt Ion:105 Resp: 4652
Ion Ratio Lower Upper
105 100
120 43.2 35.4 53.0



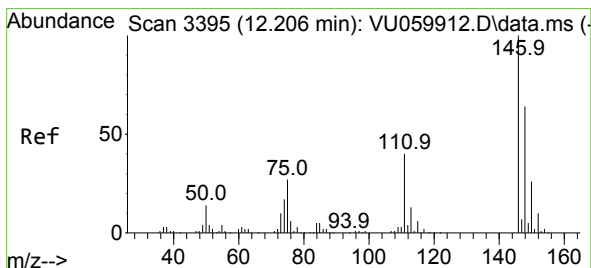
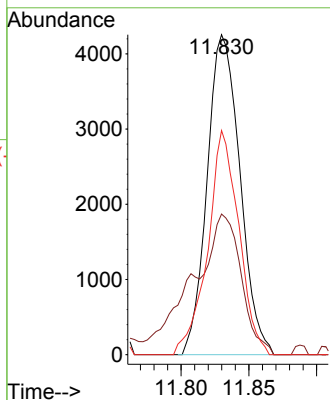
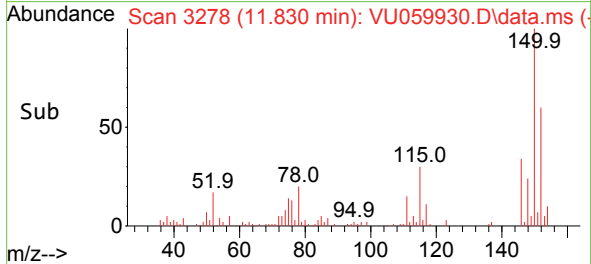


#65
1,4-Dichlorobenzene
Concen: 0.213 ug/L
RT: 11.830 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU059930.D
Acq: 12 Jul 2024 18:33

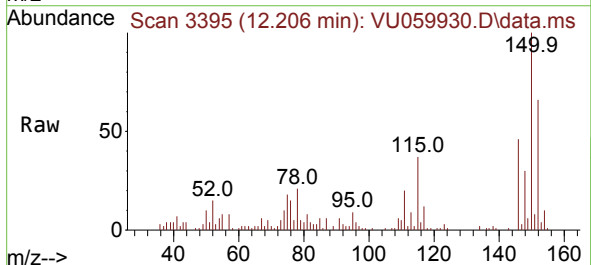
Instrument :
MSVOA_U
ClientSampleId :



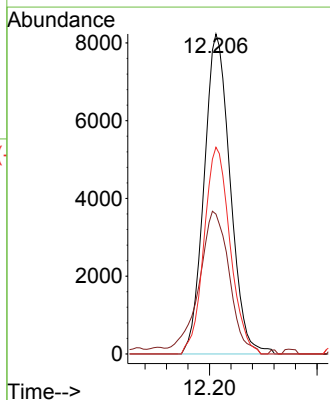
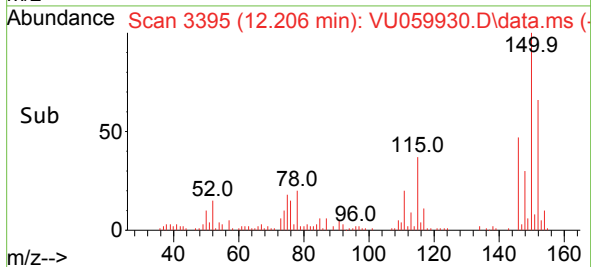
Tgt Ion:146 Resp: 7167
Ion Ratio Lower Upper
146 100
111 44.0 26.9 50.1
148 70.0 45.3 84.1

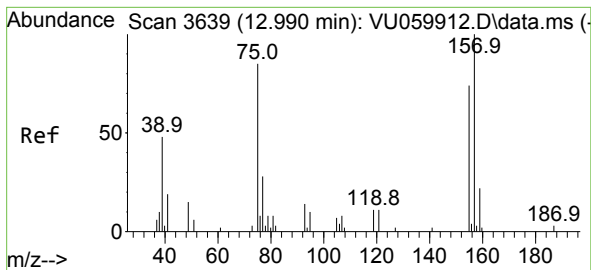


#67
1,2-Dichlorobenzene
Concen: 0.451 ug/L
RT: 12.206 min Scan# 3395
Delta R.T. 0.000 min
Lab File: VU059930.D
Acq: 12 Jul 2024 18:33



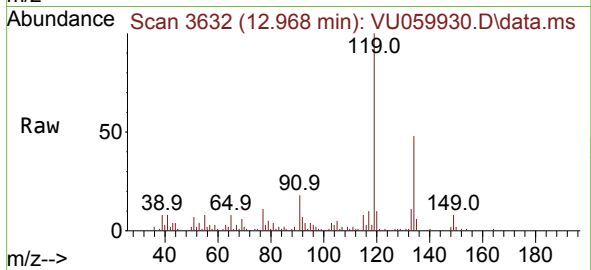
Tgt Ion:146 Resp: 13870
Ion Ratio Lower Upper
146 100
111 43.7 33.4 50.0
148 64.6 49.7 74.5



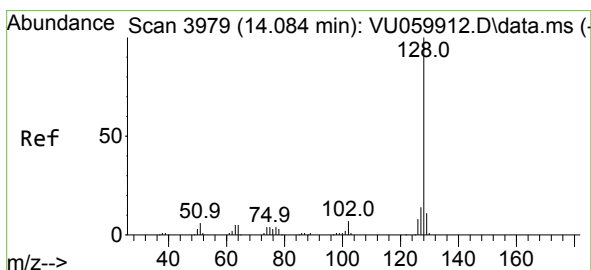
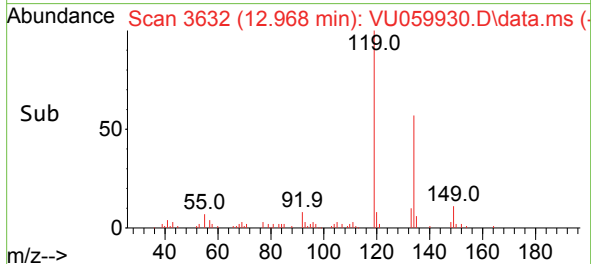
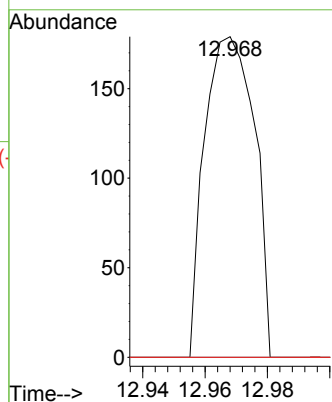


#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.106 ug/L
 RT: 12.968 min Scan# 30
 Delta R.T. -0.022 min
 Lab File: VU059930.D
 Acq: 12 Jul 2024 18:33

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion: 75 Resp: 199
 Ion Ratio Lower Upper
 75 100
 155 0.0 58.2 87.2#
 157 0.0 80.0 120.0#



#71
 Naphthalene
 Concen: 0.551 ug/L
 RT: 14.087 min Scan# 3980
 Delta R.T. 0.003 min
 Lab File: VU059930.D
 Acq: 12 Jul 2024 18:33

Tgt Ion: 128 Resp: 14638
 Ion Ratio Lower Upper
 128 100
 129 31.2 8.2 12.4#
 127 0.0 10.2 15.4#

