

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092623\
 Data File : VU055518.D
 Acq On : 26 Sep 2023 15:46
 Operator : MD/SY
 Sample : 04610-08
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DCJK4

Quant Time: Sep 27 04:49:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR091923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Sep 27 04:44:22 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	289852	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	291040	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.811	152	154975	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	137102	4.680	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.600%
7) Chloroethane-d5	1.911	69	105713	4.095	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	81.800%
11) 1,1-Dichloroethene-d2	2.564	65	55025	4.563	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.200%
20) 2-Butanone-d5	4.631	46	238996	45.167	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	90.340%
24) Chloroform-d	5.059	84	241801	4.563	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.200%
26) 1,2-Dichloroethane-d4	5.699	65	112653	4.420	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.400%
32) Benzene-d6	5.724	84	485524	4.769	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.400%
36) 1,2-Dichloropropane-d6	6.689	67	147522	4.850	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.000%
41) Toluene-d8	7.895	98	424513	4.575	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.600%
43) trans-1,3-Dichloroprop...	8.178	79	54845	5.138	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	102.800%
46) 2-Hexanone-d5	8.631	63	154945	47.724	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.440%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	105994	4.650	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.000%
66) 1,2-Dichlorobenzene-d4	12.190	152	158050	5.053	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	312226	11.658	ug/L	98
12) 1,1-Dichloroethene	2.576	96	351086	17.324	ug/L	# 72
16) Methylene chloride	3.039	84	649883	26.766	ug/L	98
18) trans-1,2-Dichloroethene	3.348	96	423202	20.719	ug/L	98
22) cis-1,2-Dichloroethene	4.663	96	175288	7.402	ug/L	98
27) 1,2-Dichloroethane	5.792	62	94126	3.837	ug/L	96
29) 1,1,1-Trichloroethane	5.313	97	604415	18.217	ug/L	98
31) Carbon tetrachloride	5.522	117	445820	15.676	ug/L	98
33) Benzene	5.769	78	2099613	25.065	ug/L	100
34) Trichloroethene	6.541	95	153935	6.497	ug/L	98
37) 1,2-Dichloropropane	6.789	63	419081	19.130	ug/L	99
42) Toluene	7.965	91	2407119	26.940	ug/L	100
45) 1,1,2-Trichloroethane	8.399	97	83702	5.449	ug/L	98
47) Tetrachloroethene	8.551	164	333189	19.602	ug/L	97
51) Chlorobenzene	9.444	112	943969	16.495	ug/L	98
52) Ethylbenzene	9.567	91	2368941	24.731	ug/L	97
53) m,p-Xylene	9.689	106	805153	22.430	ug/L	97
54) o-Xylene	10.097	106	311748	8.932	ug/L	97
55) Styrene	10.113	104	1611070	28.548	ug/L	99

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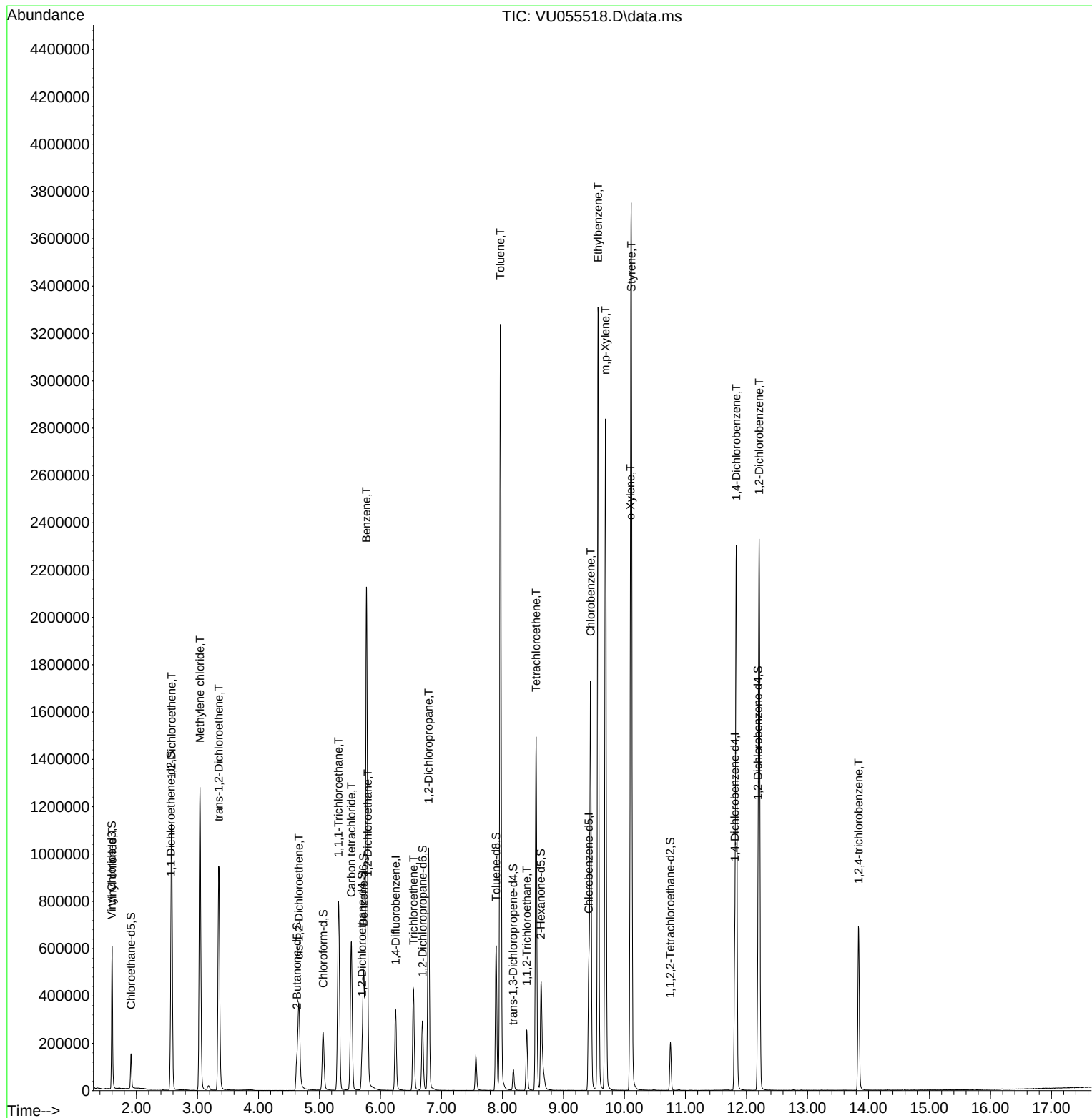
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.833	146	930444	21.770	ug/L	98
67) 1,2-Dichlorobenzene	12.210	146	927899	23.667	ug/L	99
70) 1,2,4-trichlorobenzene	13.840	180	219250	9.766	ug/L	99

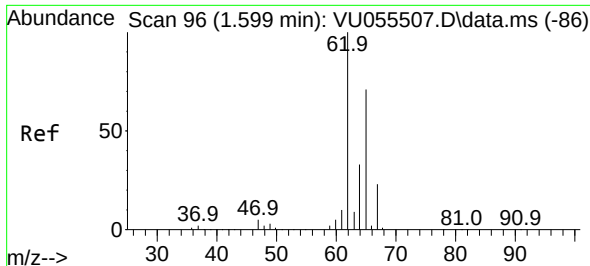
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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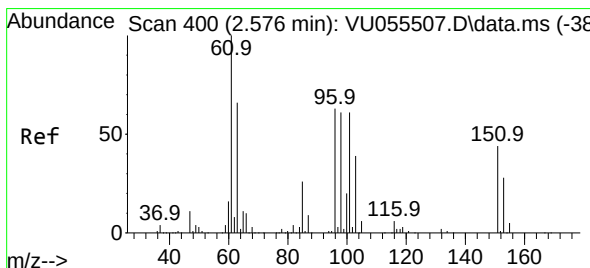
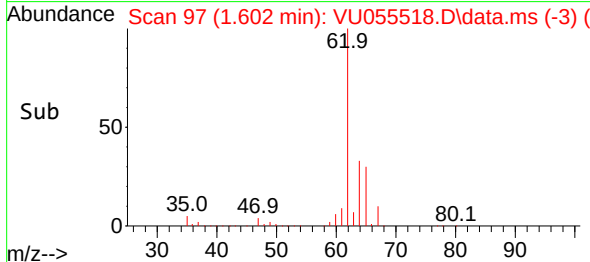
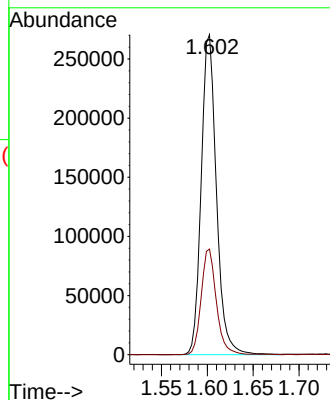
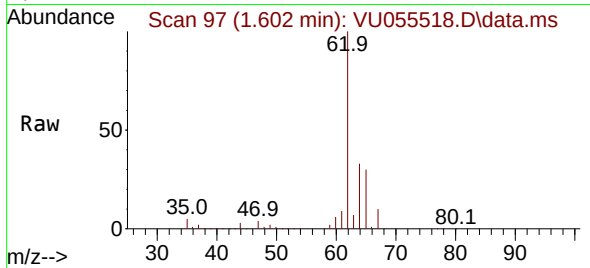




#5
 Vinyl chloride
 Concen: 11.658 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. 0.003 min
 Lab File: VU055518.D
 Acq: 26 Sep 2023 15:46

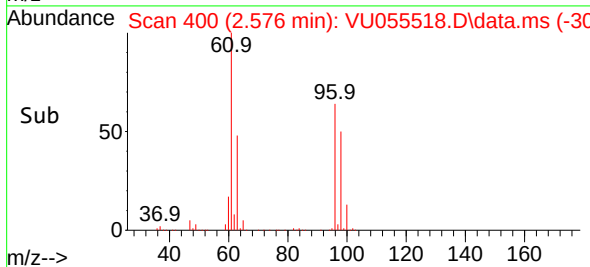
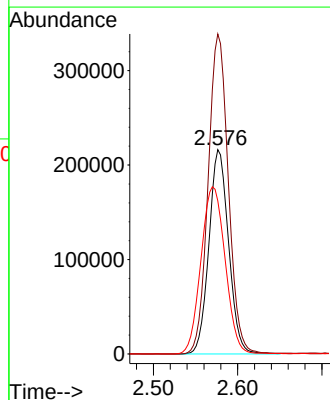
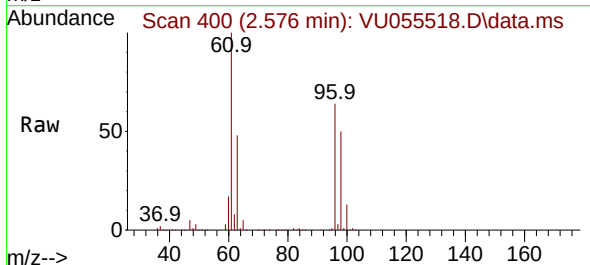
Instrument :
 MSVOA_U
 ClientSampleId :
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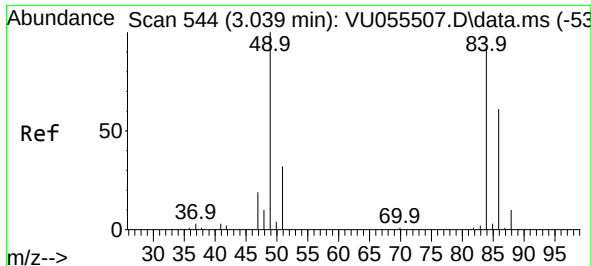
Tgt Ion: 62 Resp: 312226
 Ion Ratio Lower Upper
 62 100
 64 33.0 22.3 41.5



#12
 1,1-Dichloroethene
 Concen: 17.324 ug/L
 RT: 2.576 min Scan# 400
 Delta R.T. 0.000 min
 Lab File: VU055518.D
 Acq: 26 Sep 2023 15:46

Tgt Ion: 96 Resp: 351086
 Ion Ratio Lower Upper
 96 100
 61 156.6 114.5 212.7
 63 74.9 98.3 182.5#

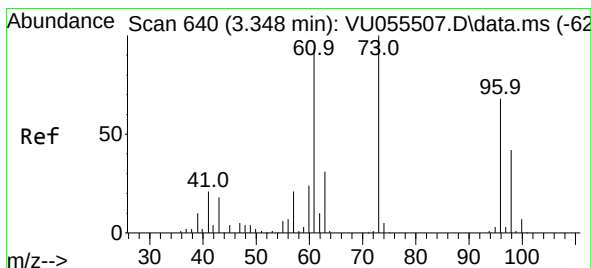
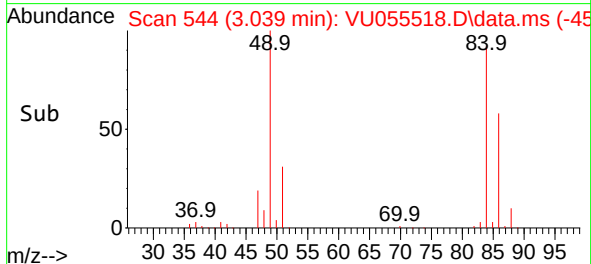
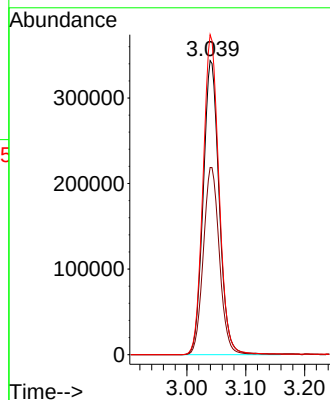
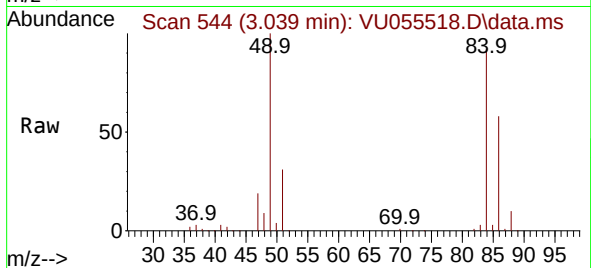




#16
Methylene chloride
Concen: 26.766 ug/L
RT: 3.039 min Scan# 54
Delta R.T. 0.000 min
Lab File: VU055518.D
Acq: 26 Sep 2023 15:46

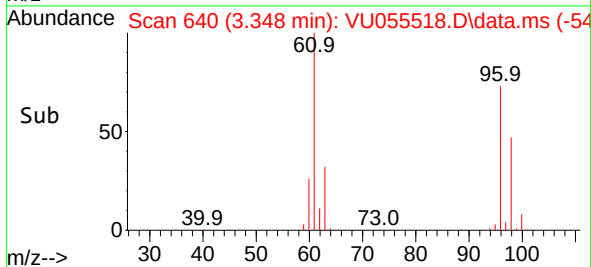
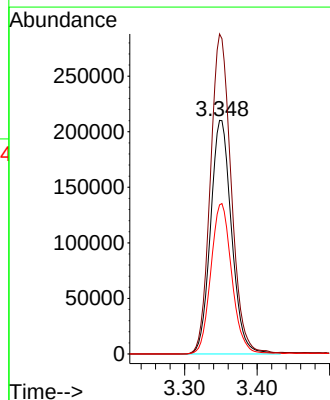
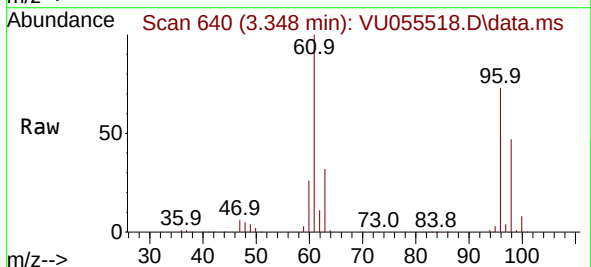
Instrument :
MSVOA_U
ClientSampleId :
DCJK4

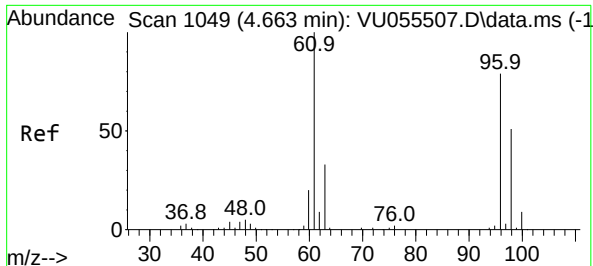
Tgt Ion: 84 Resp: 649883
Ion Ratio Lower Upper
84 100
86 63.7 44.9 83.3
49 108.8 78.8 146.3



#18
trans-1,2-Dichloroethene
Concen: 20.719 ug/L
RT: 3.348 min Scan# 640
Delta R.T. 0.000 min
Lab File: VU055518.D
Acq: 26 Sep 2023 15:46

Tgt Ion: 96 Resp: 423202
Ion Ratio Lower Upper
96 100
61 137.0 94.6 175.6
98 63.9 45.7 84.9





#22

cis-1,2-Dichloroethene

Concen: 7.402 ug/L

RT: 4.663 min Scan# 1049

Delta R.T. 0.000 min

Lab File: VU055518.D

Acq: 26 Sep 2023 15:46

Instrument :

MSVOA_U

ClientSampleId :

DCJK4

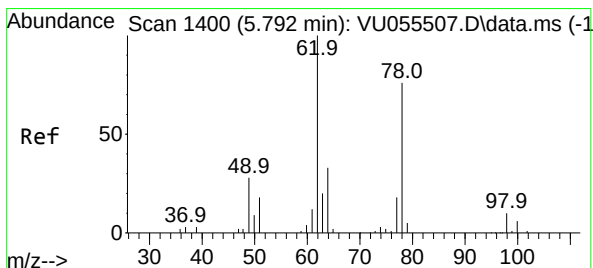
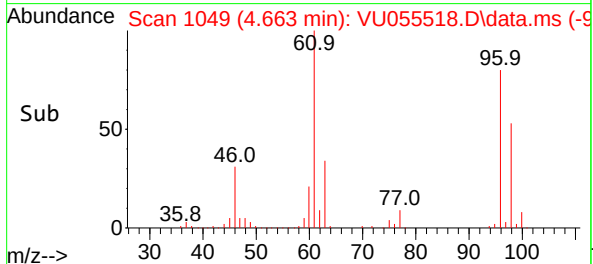
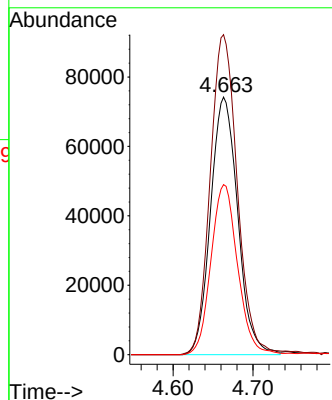
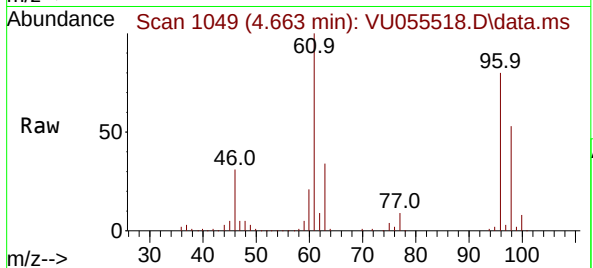
Tgt Ion: 96 Resp: 175288

Ion Ratio Lower Upper

96 100

61 124.2 87.8 163.2

98 66.1 44.4 82.4



#27

1,2-Dichloroethane

Concen: 3.837 ug/L

RT: 5.792 min Scan# 1400

Delta R.T. 0.000 min

Lab File: VU055518.D

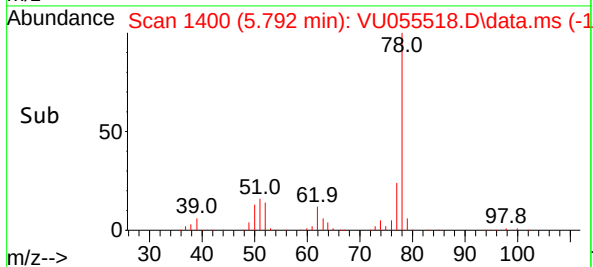
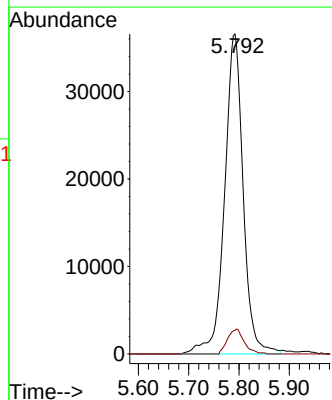
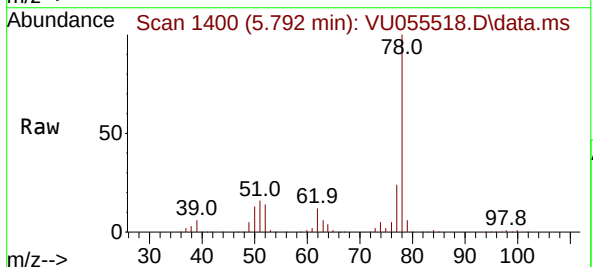
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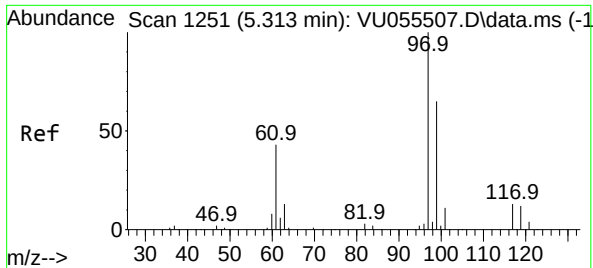
Tgt Ion: 62 Resp: 94126

Ion Ratio Lower Upper

62 100

98 7.4 7.0 10.4

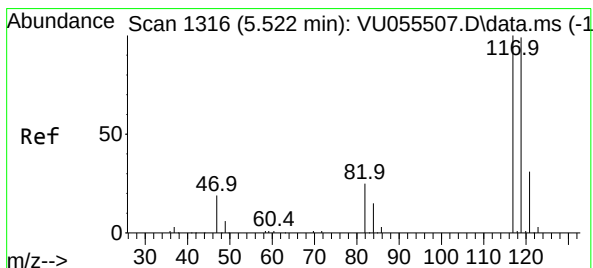
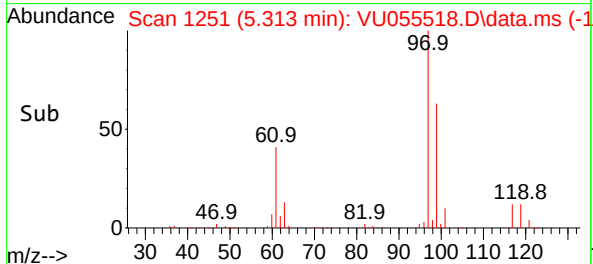
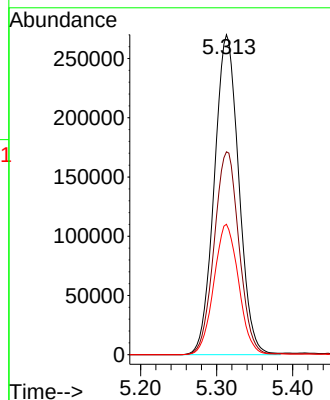
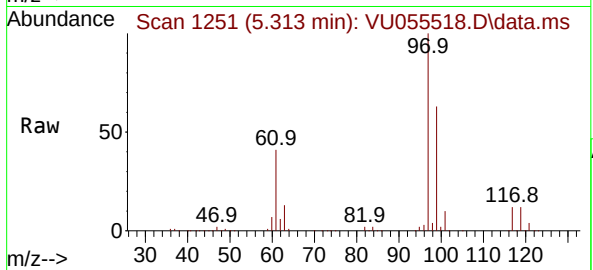




#29
1,1,1-Trichloroethane
Concen: 18.217 ug/L
RT: 5.313 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VU055518.D
Acq: 26 Sep 2023 15:46

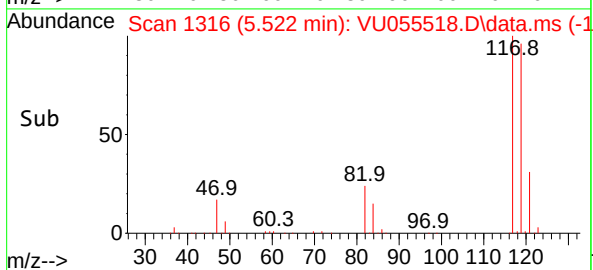
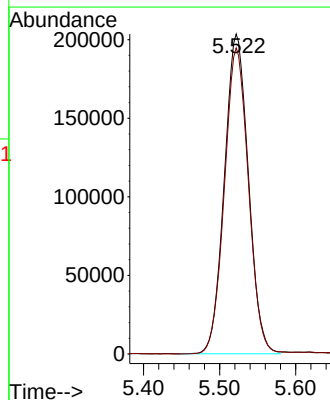
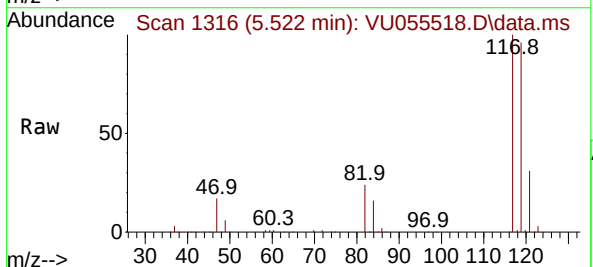
Instrument :
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DCJK4

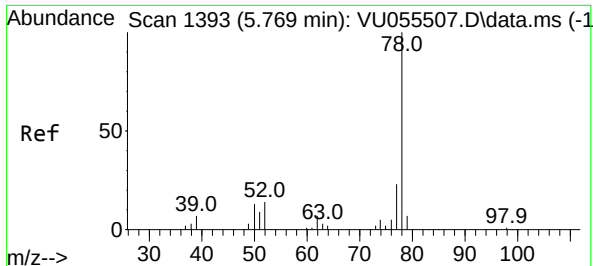
Tgt Ion: 97 Resp: 604415
Ion Ratio Lower Upper
97 100
99 64.4 50.7 76.1
61 41.3 34.6 51.8



#31
Carbon tetrachloride
Concen: 15.676 ug/L
RT: 5.522 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VU055518.D
Acq: 26 Sep 2023 15:46

Tgt Ion: 117 Resp: 445820
Ion Ratio Lower Upper
117 100
119 95.8 75.2 112.8

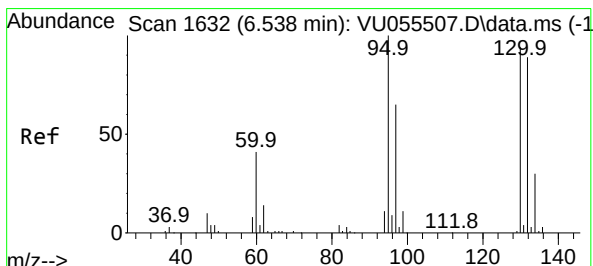
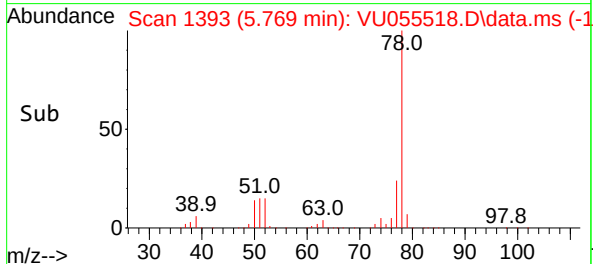
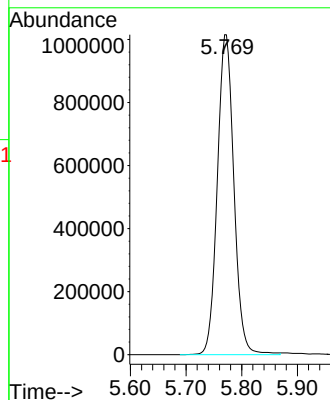
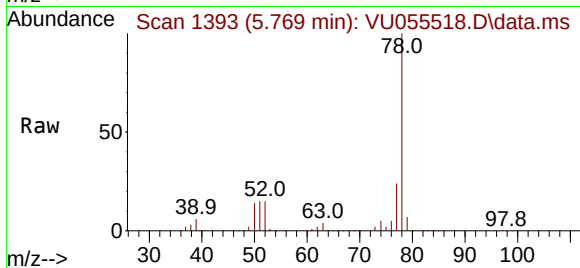




#33
Benzene
Concen: 25.065 ug/L
RT: 5.769 min Scan# 1393
Delta R.T. 0.000 min
Lab File: VU055518.D
Acq: 26 Sep 2023 15:46

Instrument :
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ClientSampleId :
DCJK4

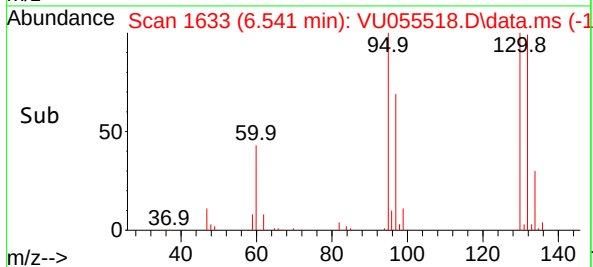
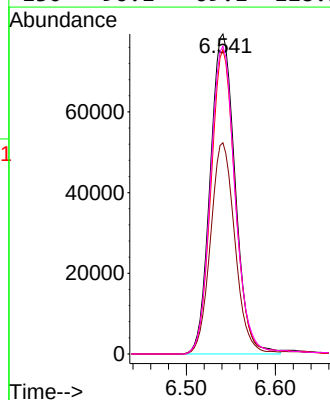
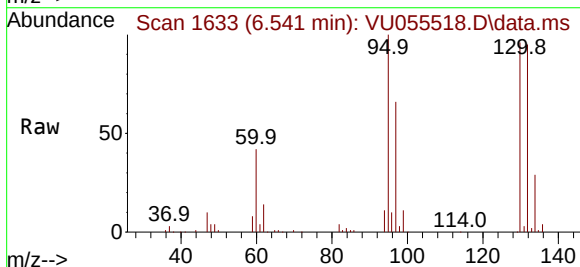
Tgt Ion: 78 Resp: 2099613

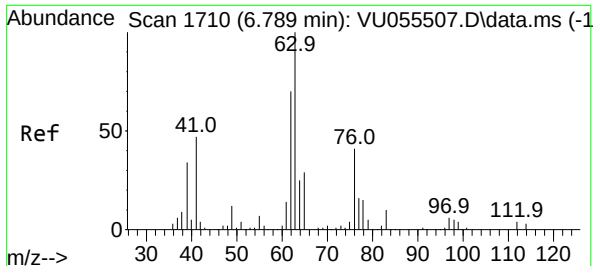


#34
Trichloroethene
Concen: 6.497 ug/L
RT: 6.541 min Scan# 1633
Delta R.T. 0.003 min
Lab File: VU055518.D
Acq: 26 Sep 2023 15:46

Tgt Ion: 95 Resp: 153935

Ion	Ratio	Lower	Upper
95	100		
97	66.0	45.4	84.2
132	95.1	65.2	121.2
130	96.1	69.1	128.3





#37

1,2-Dichloropropane

Concen: 19.130 ug/L

RT: 6.789 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU055518.D

Acq: 26 Sep 2023 15:46

Instrument :

MSVOA_U

ClientSampleId :

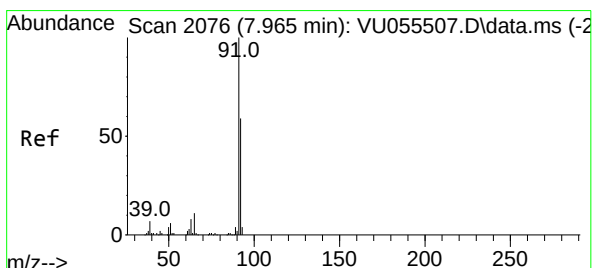
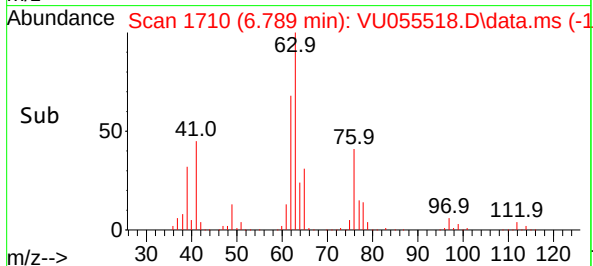
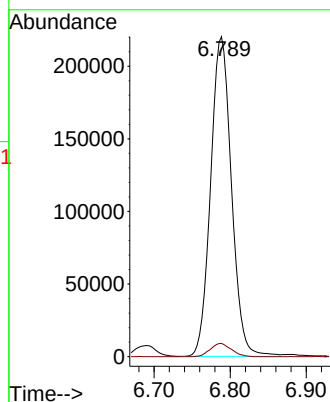
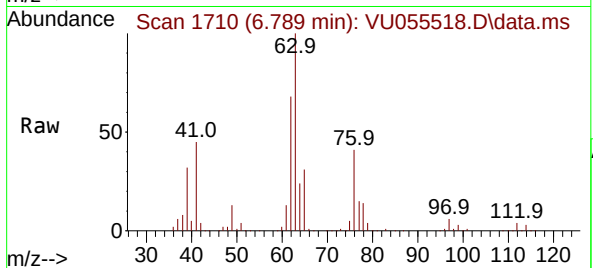
DCJK4

Tgt Ion: 63 Resp: 419081

Ion Ratio Lower Upper

63 100

112 4.2 3.0 4.6



#42

Toluene

Concen: 26.940 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. 0.000 min

Lab File: VU055518.D

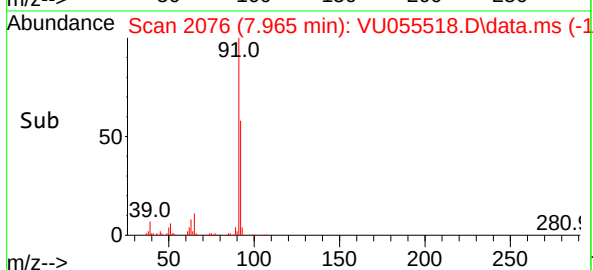
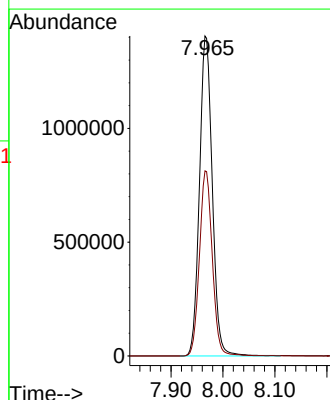
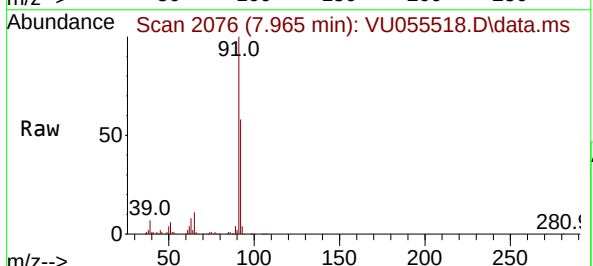
Acq: 26 Sep 2023 15:46

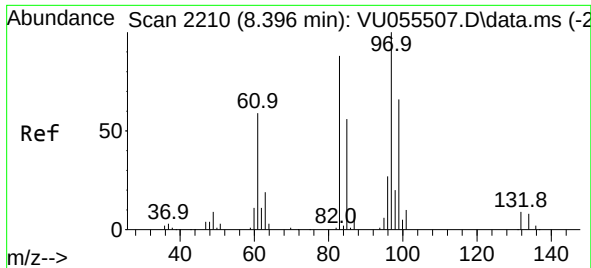
Tgt Ion: 91 Resp: 2407119

Ion Ratio Lower Upper

91 100

92 57.8 40.3 74.8

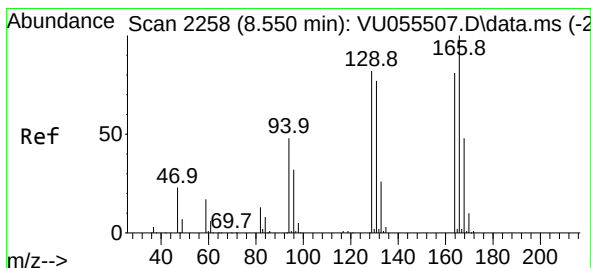
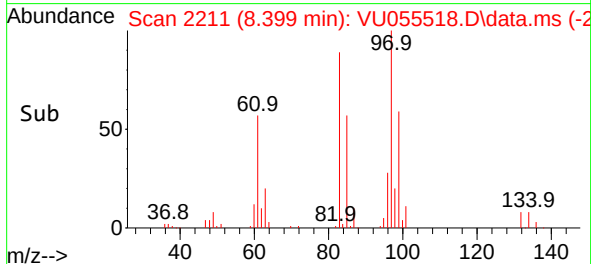
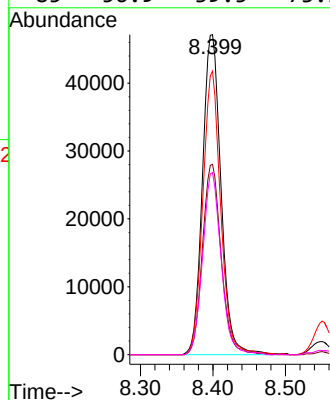
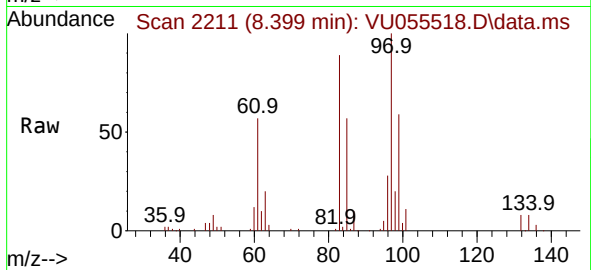




#45
1,1,2-Trichloroethane
Concen: 5.449 ug/L
RT: 8.399 min Scan# 211
Delta R.T. 0.003 min
Lab File: VU055518.D
Acq: 26 Sep 2023 15:46

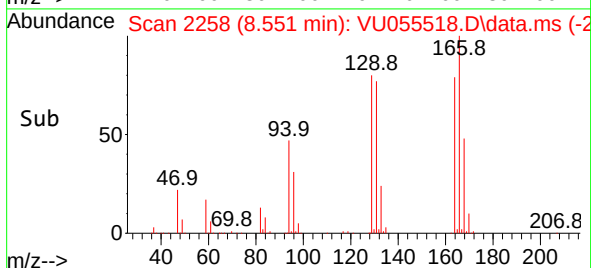
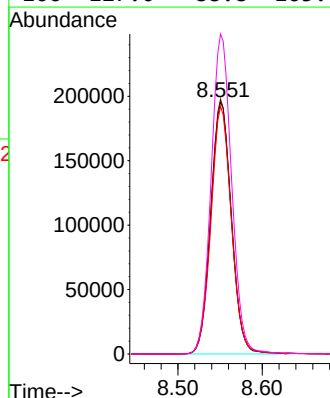
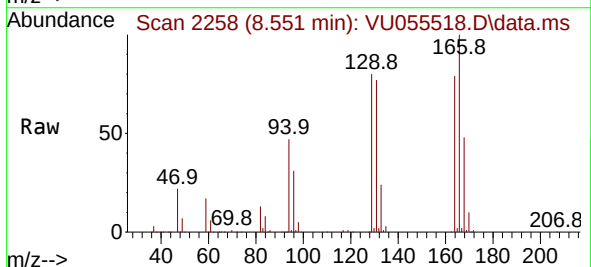
Instrument :
MSVOA_U
ClientSampleId :
DCJK4

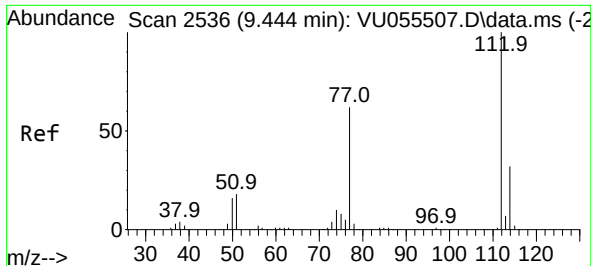
Tgt Ion:	97	Resp:	83702
Ion	Ratio	Lower	Upper
97	100		
99	59.5	44.1	81.9
83	88.6	61.5	114.1
85	56.9	39.5	73.3



#47
Tetrachloroethene
Concen: 19.602 ug/L
RT: 8.551 min Scan# 2258
Delta R.T. 0.000 min
Lab File: VU055518.D
Acq: 26 Sep 2023 15:46

Tgt Ion:	164	Resp:	333189
Ion	Ratio	Lower	Upper
164	100		
129	101.2	67.4	125.2
131	98.3	66.4	123.2
166	127.0	88.8	165.0

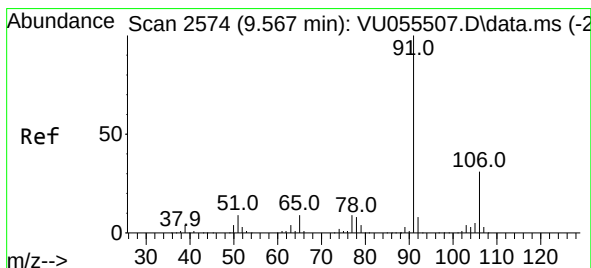
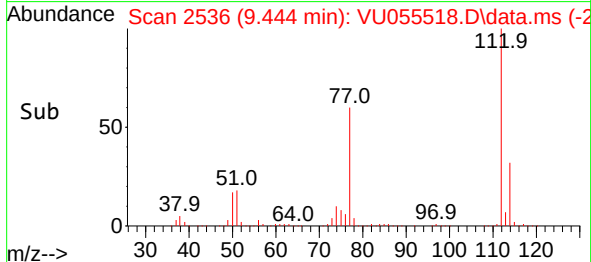
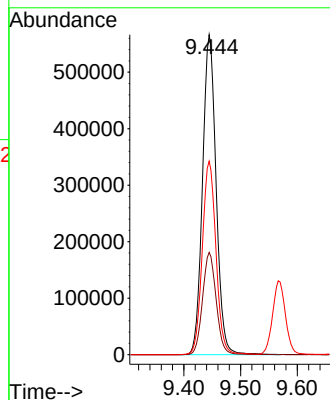
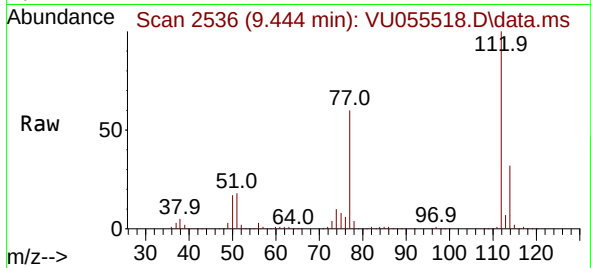




#51
Chlorobenzene
Concen: 16.495 ug/L
RT: 9.444 min Scan# 2536
Delta R.T. 0.000 min
Lab File: VU055518.D
Acq: 26 Sep 2023 15:46

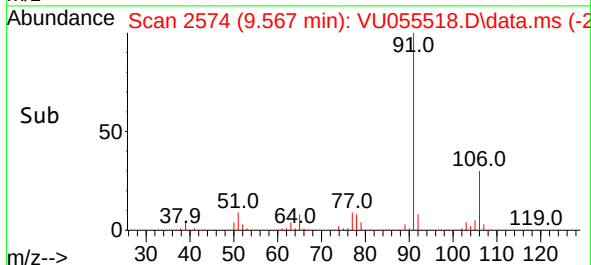
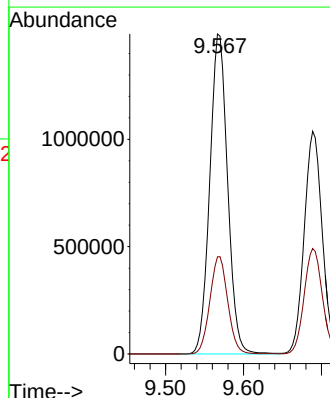
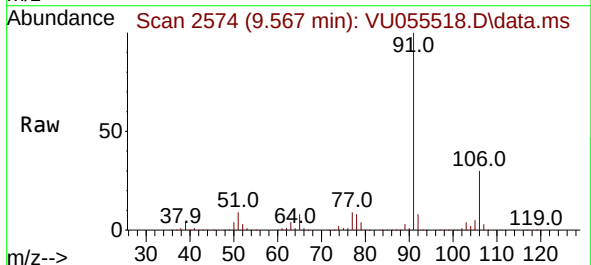
Instrument :
MSVOA_U
ClientSampleId :
DCJK4

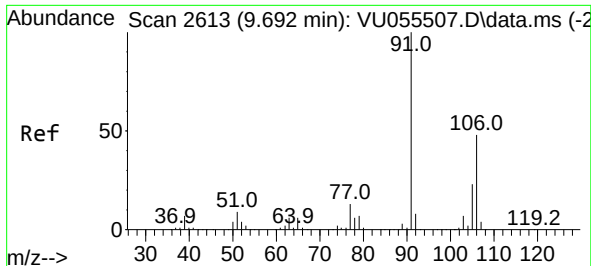
Tgt Ion:112 Resp: 943969
Ion Ratio Lower Upper
112 100
114 31.9 22.0 40.8
77 60.5 46.9 70.3



#52
Ethylbenzene
Concen: 24.731 ug/L
RT: 9.567 min Scan# 2574
Delta R.T. 0.000 min
Lab File: VU055518.D
Acq: 26 Sep 2023 15:46

Tgt Ion: 91 Resp: 2368941
Ion Ratio Lower Upper
91 100
106 30.4 22.4 41.6

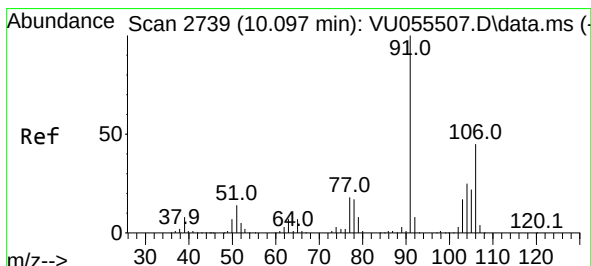
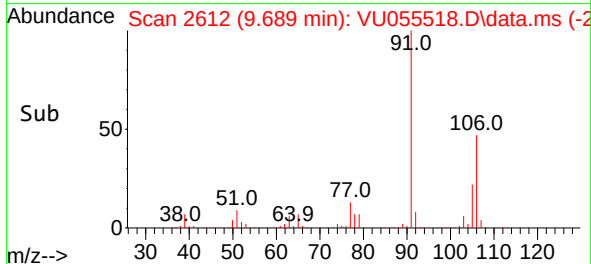
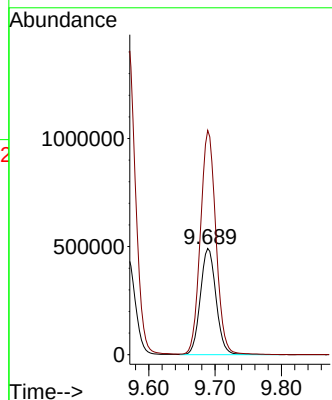
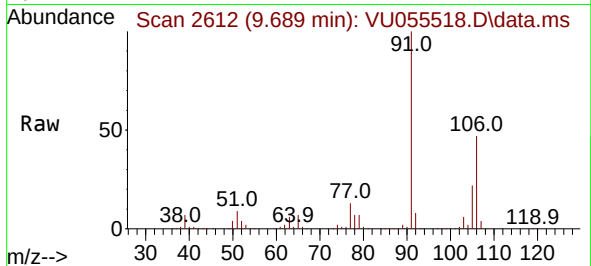




#53
m,p-Xylene
Concen: 22.430 ug/L
RT: 9.689 min Scan# 2612
Delta R.T. -0.003 min
Lab File: VU055518.D
Acq: 26 Sep 2023 15:46

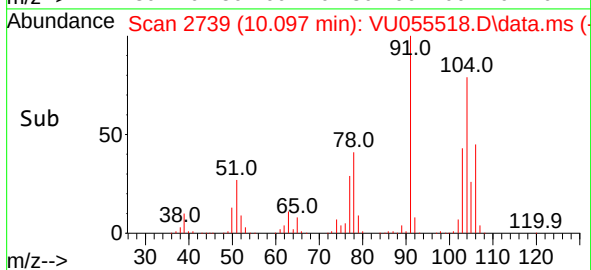
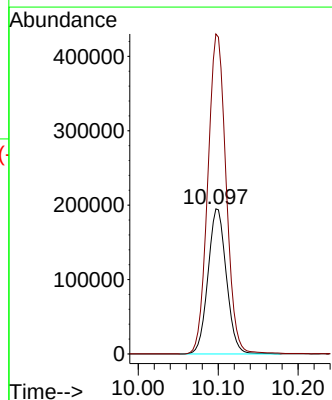
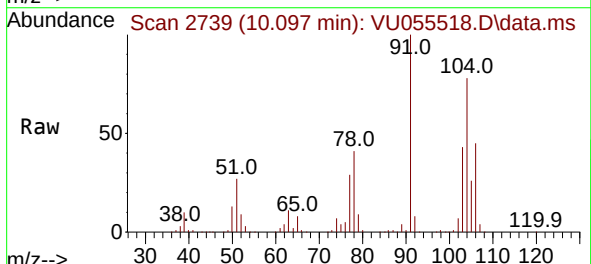
Instrument :
MSVOA_U
ClientSampleId :
DCJK4

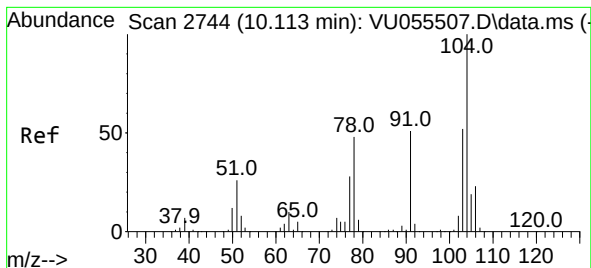
Tgt Ion:106 Resp: 805153
Ion Ratio Lower Upper
106 100
91 211.1 144.8 269.0



#54
o-Xylene
Concen: 8.932 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. 0.000 min
Lab File: VU055518.D
Acq: 26 Sep 2023 15:46

Tgt Ion:106 Resp: 311748
Ion Ratio Lower Upper
106 100
91 220.5 157.6 292.8





#55

Styrene

Concen: 28.548 ug/L

RT: 10.113 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU055518.D

Acq: 26 Sep 2023 15:46

Instrument :

MSVOA_U

ClientSampleId :

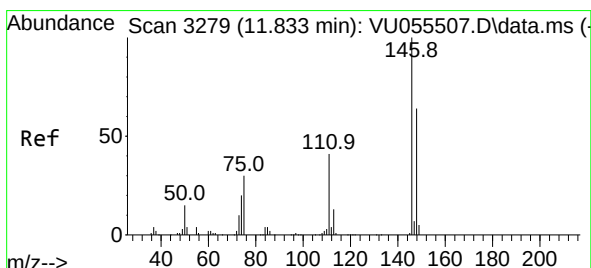
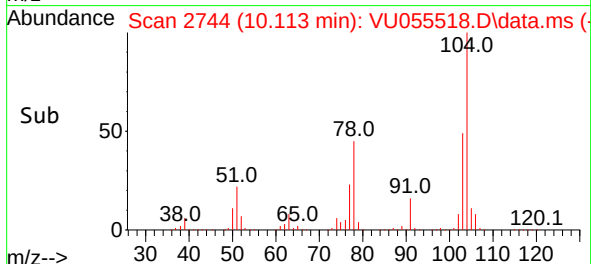
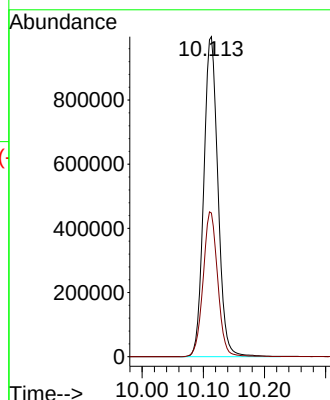
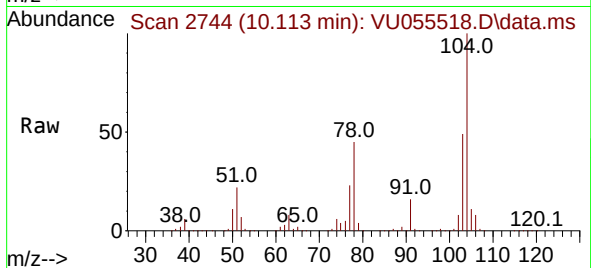
DCJK4

Tgt Ion:104 Resp: 1611070

Ion Ratio Lower Upper

104 100

78 44.9 31.2 58.0



#65

1,4-Dichlorobenzene

Concen: 21.770 ug/L

RT: 11.833 min Scan# 3279

Delta R.T. 0.000 min

Lab File: VU055518.D

Acq: 26 Sep 2023 15:46

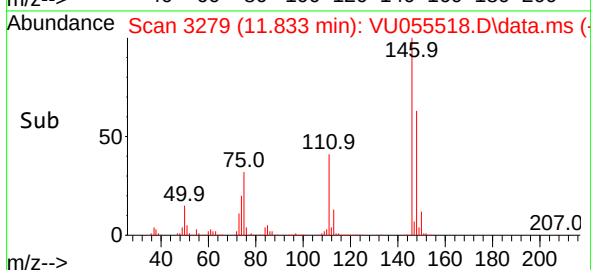
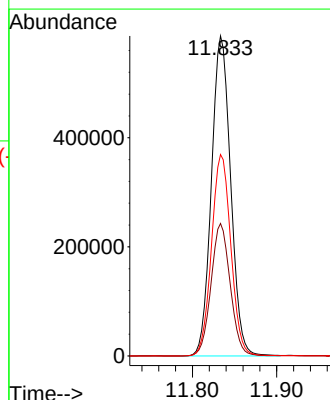
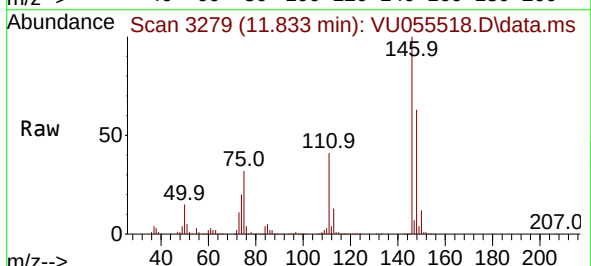
Tgt Ion:146 Resp: 930444

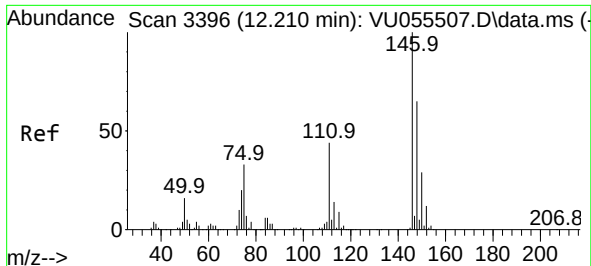
Ion Ratio Lower Upper

146 100

111 41.4 29.0 53.8

148 63.0 45.4 84.4





#67

1,2-Dichlorobenzene

Concen: 23.667 ug/L

RT: 12.210 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU055518.D

Acq: 26 Sep 2023 15:46

Instrument :

MSVOA_U

ClientSampleId :

DCJK4

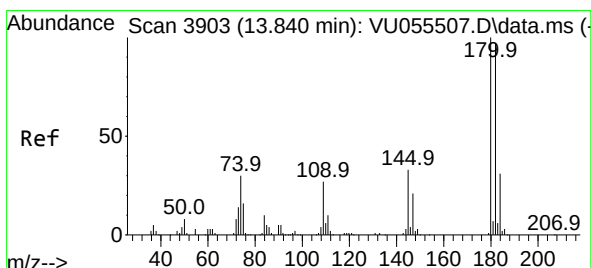
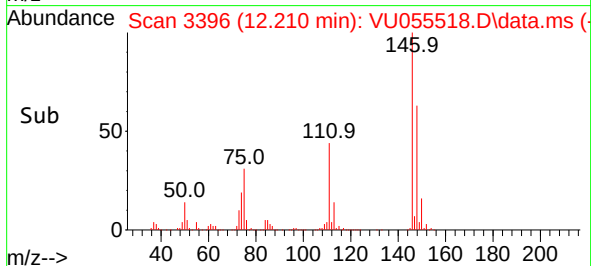
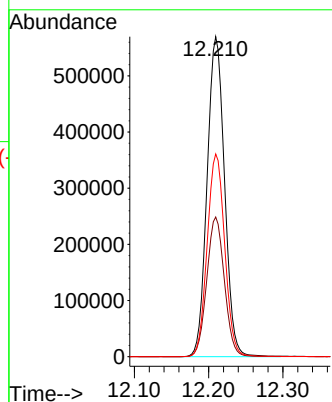
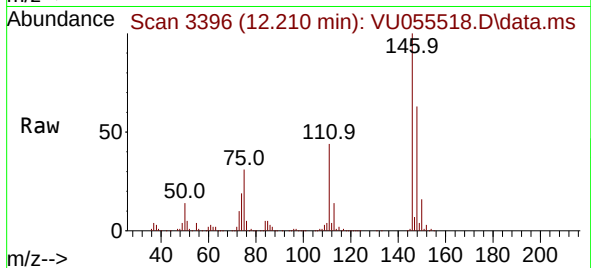
Tgt Ion:146 Resp: 927899

Ion Ratio Lower Upper

146 100

111 43.7 34.6 52.0

148 63.3 51.8 77.8



#70

1,2,4-trichlorobenzene

Concen: 9.766 ug/L

RT: 13.840 min Scan# 3903

Delta R.T. 0.000 min

Lab File: VU055518.D

Acq: 26 Sep 2023 15:46

Tgt Ion:180 Resp: 219250

Ion Ratio Lower Upper

180 100

182 95.9 76.4 114.6

145 32.6 25.4 38.0

