

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092823\
 Data File : VU055573.D
 Acq On : 28 Sep 2023 13:08
 Operator : MD/SY
 Sample : 04610-08
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DCJK4

Quant Time: Sep 28 14:11:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR091923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Sep 27 23:33:30 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	231391	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	230462	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	125116	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.599	65	89395	3.822	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.400%
7) Chloroethane-d5	1.914	69	78567	3.812	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	76.200%
11) 1,1-Dichloroethene-d2	2.567	65	33666	3.497	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.000%
20) 2-Butanone-d5	4.634	46	158819	37.598	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	75.200%
24) Chloroform-d	5.062	84	163176	3.858	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	77.200%
26) 1,2-Dichloroethane-d4	5.701	65	80729	3.967	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.400%
32) Benzene-d6	5.724	84	324597	4.027	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.600%
36) 1,2-Dichloropropane-d6	6.689	67	98103	4.073	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	81.400%
41) Toluene-d8	7.897	98	277869	3.782	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.600%
43) trans-1,3-Dichloroprop...	8.180	79	35339	4.181	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.600%
46) 2-Hexanone-d5	8.634	63	105497	41.034	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	82.060%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	74059	4.103	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	82.000%
66) 1,2-Dichlorobenzene-d4	12.190	152	105586	4.181	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	83.600%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	169934	7.948	ug/L	97
12) 1,1-Dichloroethene	2.579	96	186027	11.499	ug/L	# 75
16) Methylene chloride	3.042	84	376030	19.400	ug/L	98
18) trans-1,2-Dichloroethene	3.351	96	232697	14.270	ug/L	98
22) cis-1,2-Dichloroethene	4.666	96	102794	5.437	ug/L	92
27) 1,2-Dichloroethane	5.791	62	58266	2.975	ug/L	99
29) 1,1,1-Trichloroethane	5.312	97	351529	13.380	ug/L	99
31) Carbon tetrachloride	5.521	117	258926	11.498	ug/L	98
33) Benzene	5.772	78	1220222	18.396	ug/L	100
34) Trichloroethene	6.541	95	86997	4.637	ug/L	98
37) 1,2-Dichloropropane	6.788	63	251033	14.471	ug/L	99
42) Toluene	7.968	91	1434535	20.275	ug/L	100
45) 1,1,2-Trichloroethane	8.399	97	52651	4.329	ug/L	100
47) Tetrachloroethene	8.550	164	193018	14.341	ug/L	98
51) Chlorobenzene	9.444	112	580142	12.802	ug/L	99
52) Ethylbenzene	9.566	91	1416608	18.676	ug/L	98
53) m,p-Xylene	9.688	106	481781	16.949	ug/L	98
54) o-Xylene	10.100	106	184424	6.673	ug/L	93
55) Styrene	10.113	104	995060	22.267	ug/L	98

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QLast Update : Wed Sep 27 23:33:30 2023
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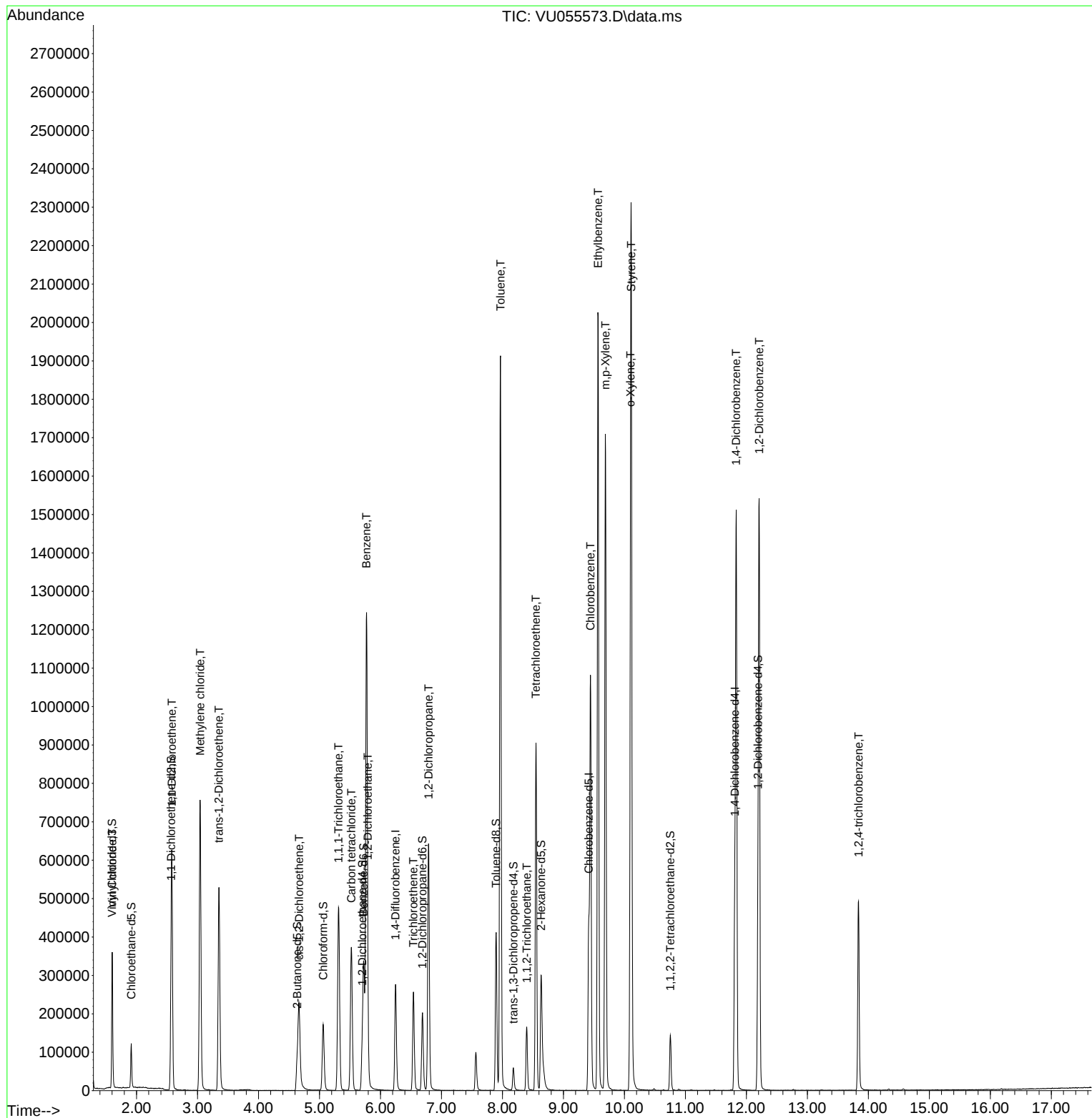
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.833	146	593636	17.204	ug/L	98
67) 1,2-Dichlorobenzene	12.209	146	585120	18.486	ug/L	99
70) 1,2,4-trichlorobenzene	13.839	180	152889	8.435	ug/L	99

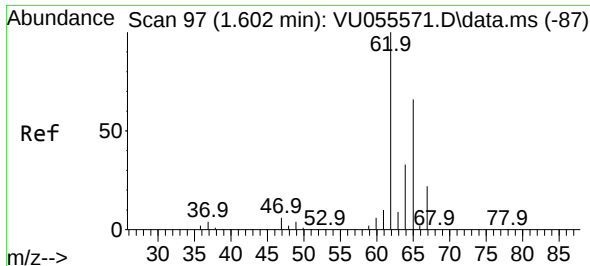
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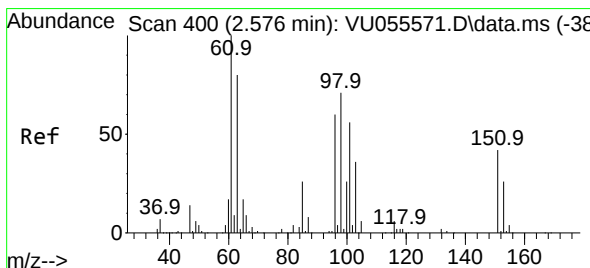
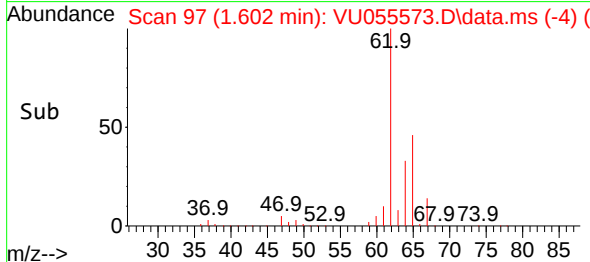
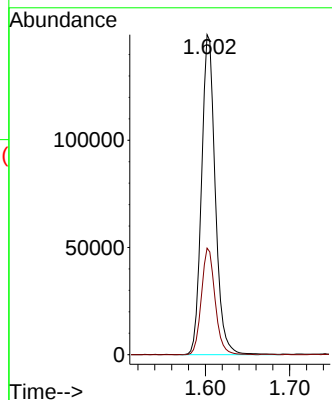
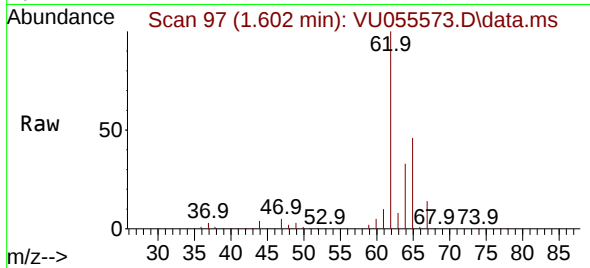




#5
 Vinyl chloride
 Concen: 7.948 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VU055573.D
 Acq: 28 Sep 2023 13:08

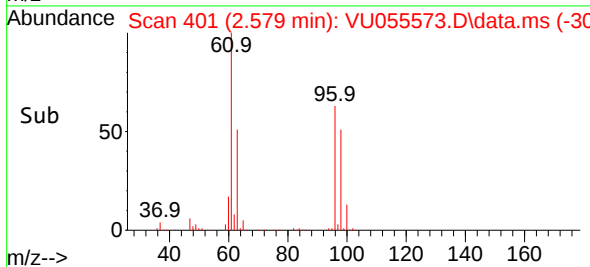
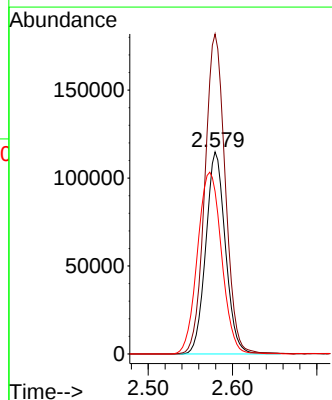
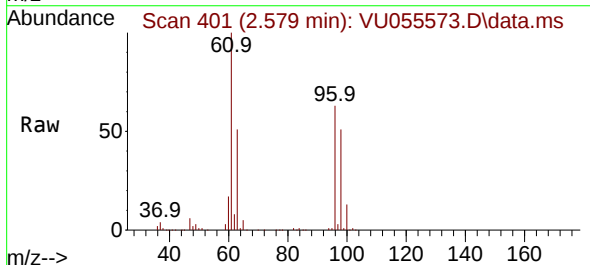
Instrument :
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 ClientSampleId :
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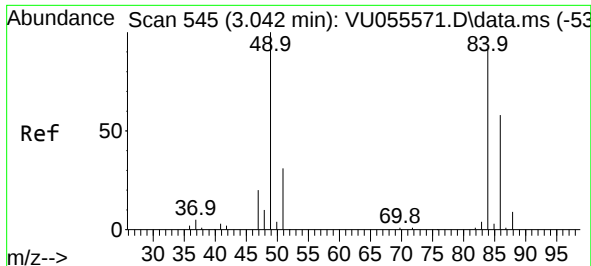
Tgt Ion: 62 Resp: 169934
 Ion Ratio Lower Upper
 62 100
 64 33.3 22.3 41.5



#12
 1,1-Dichloroethene
 Concen: 11.499 ug/L
 RT: 2.579 min Scan# 401
 Delta R.T. 0.003 min
 Lab File: VU055573.D
 Acq: 28 Sep 2023 13:08

Tgt Ion: 96 Resp: 186027
 Ion Ratio Lower Upper
 96 100
 61 158.3 114.5 212.7
 63 80.4 98.3 182.5

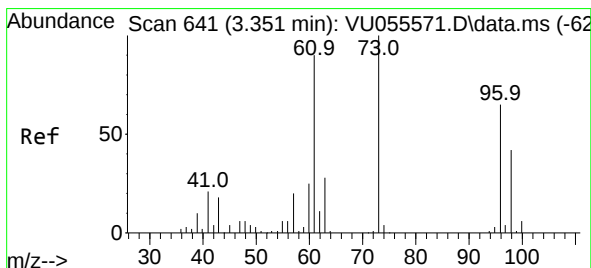
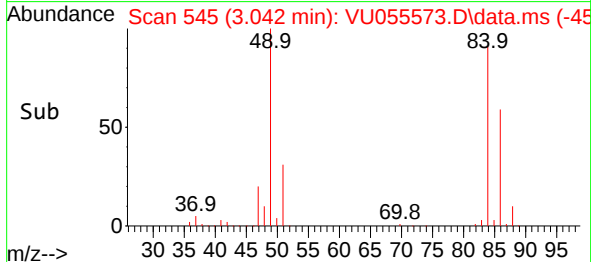
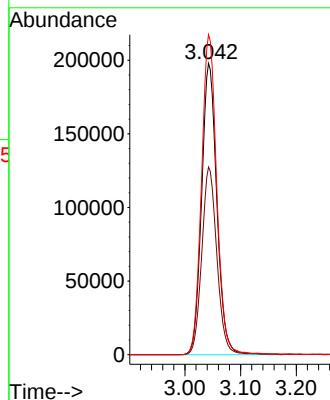
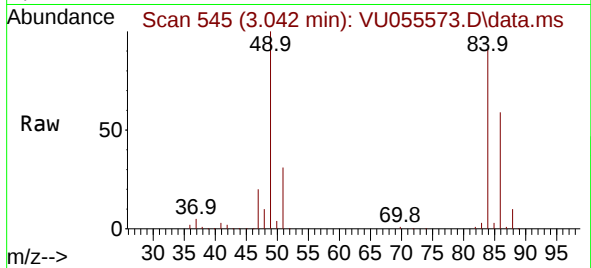




#16
Methylene chloride
Concen: 19.400 ug/L
RT: 3.042 min Scan# 545
Delta R.T. -0.000 min
Lab File: VU055573.D
Acq: 28 Sep 2023 13:08

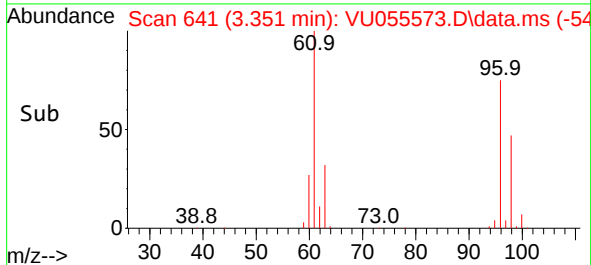
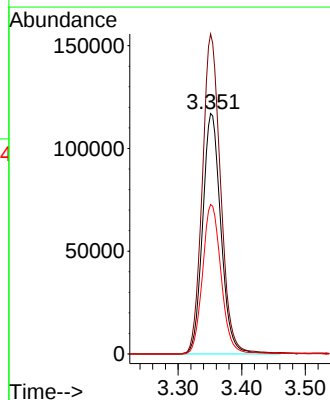
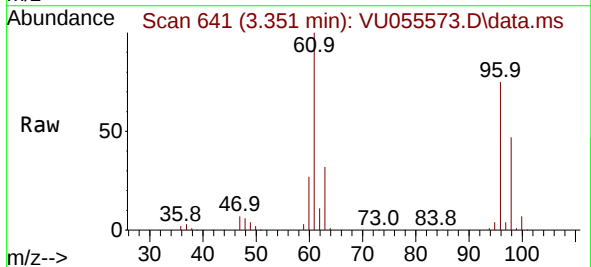
Instrument :
MSVOA_U
ClientSampleId :
DCJK4

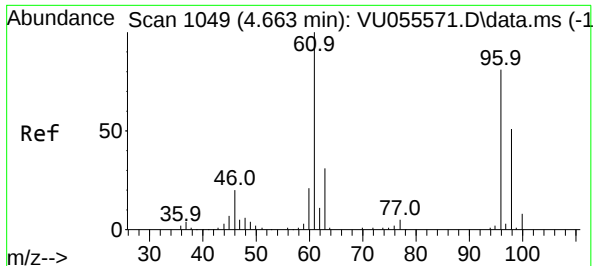
Tgt Ion: 84 Resp: 376030
Ion Ratio Lower Upper
84 100
86 64.4 44.9 83.3
49 109.8 78.8 146.3



#18
trans-1,2-Dichloroethene
Concen: 14.270 ug/L
RT: 3.351 min Scan# 641
Delta R.T. -0.000 min
Lab File: VU055573.D
Acq: 28 Sep 2023 13:08

Tgt Ion: 96 Resp: 232697
Ion Ratio Lower Upper
96 100
61 133.1 94.6 175.6
98 62.2 45.7 84.9





#22

cis-1,2-Dichloroethene

Concen: 5.437 ug/L

RT: 4.666 min Scan# 1050

Delta R.T. 0.003 min

Lab File: VU055573.D

Acq: 28 Sep 2023 13:08

Instrument :

MSVOA_U

ClientSampleId :

DCJK4

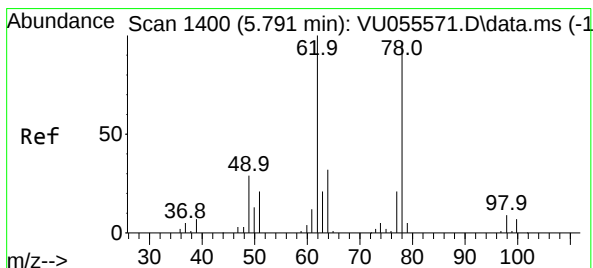
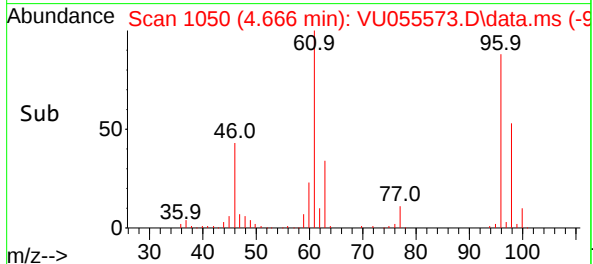
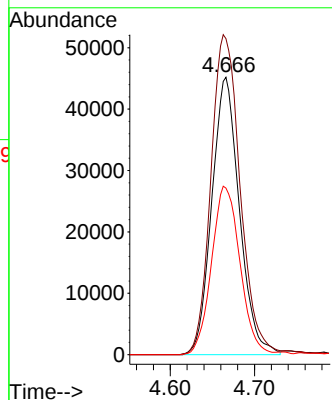
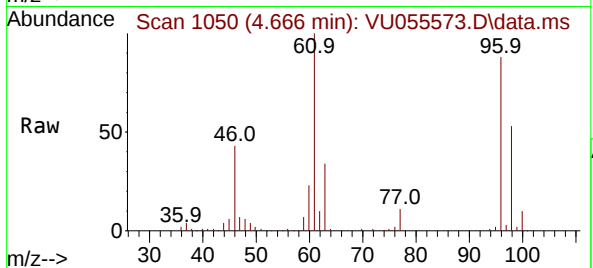
Tgt Ion: 96 Resp: 102794

Ion Ratio Lower Upper

96 100

61 113.9 87.8 163.2

98 60.0 44.4 82.4



#27

1,2-Dichloroethane

Concen: 2.975 ug/L

RT: 5.791 min Scan# 1400

Delta R.T. -0.000 min

Lab File: VU055573.D

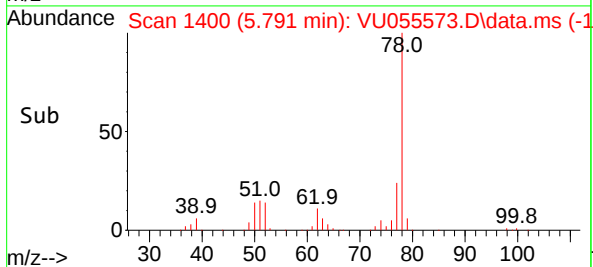
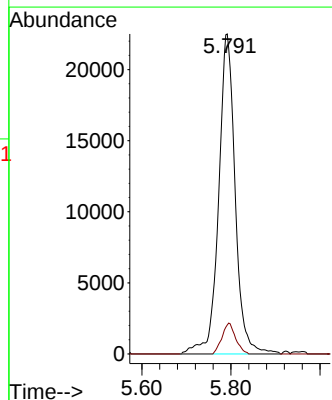
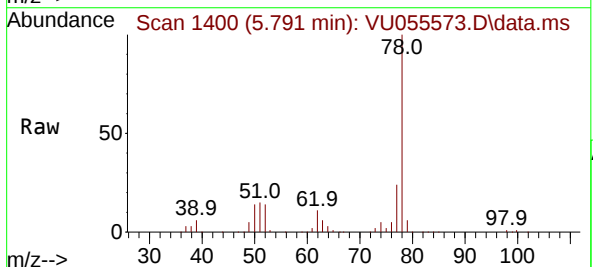
Acq: 28 Sep 2023 13:08

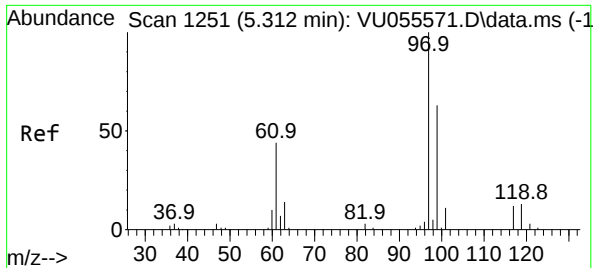
Tgt Ion: 62 Resp: 58266

Ion Ratio Lower Upper

62 100

98 9.1 7.0 10.4

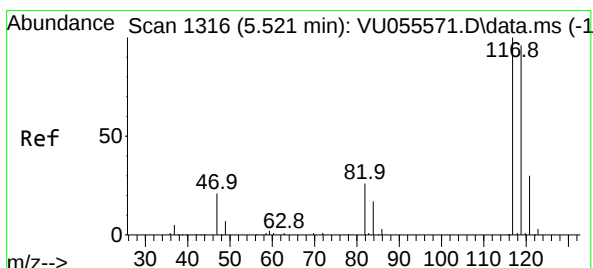
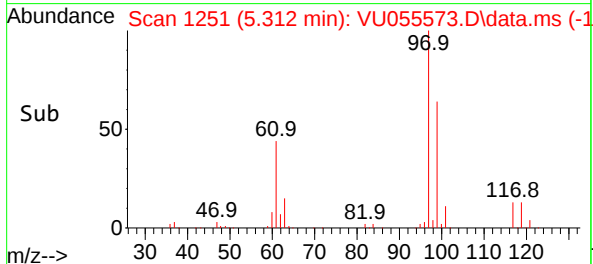
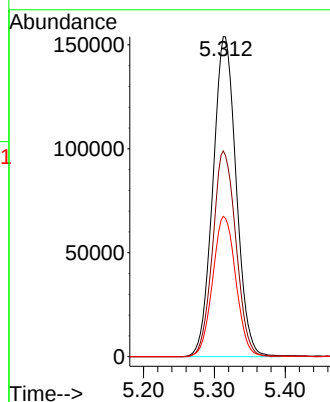
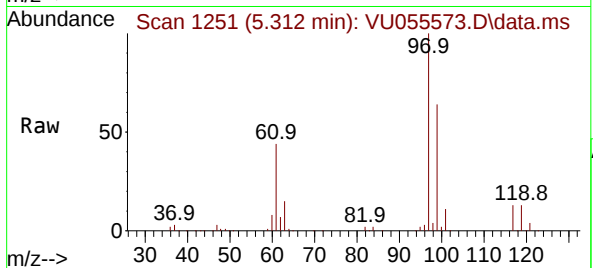




#29
1,1,1-Trichloroethane
Concen: 13.380 ug/L
RT: 5.312 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VU055573.D
Acq: 28 Sep 2023 13:08

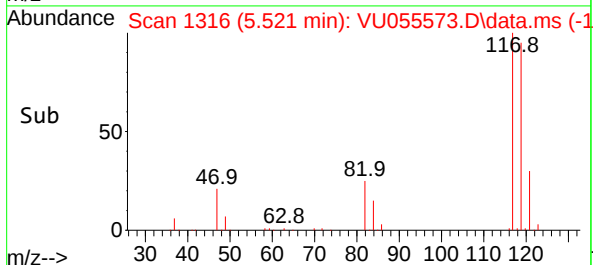
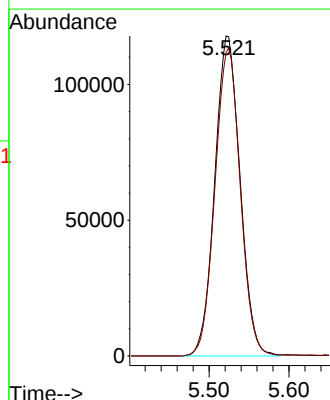
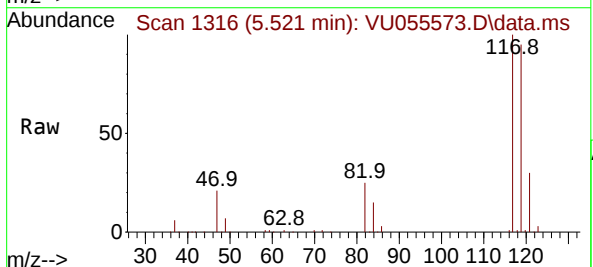
Instrument :
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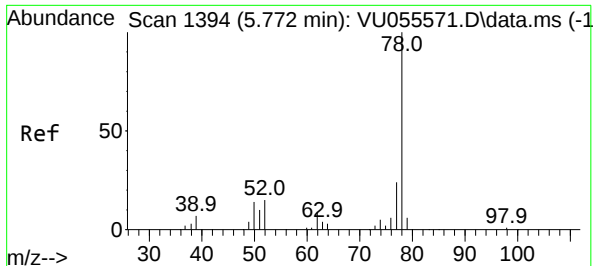
Tgt Ion: 97 Resp: 351529
Ion Ratio Lower Upper
97 100
99 64.1 50.7 76.1
61 43.8 34.6 51.8



#31
Carbon tetrachloride
Concen: 11.498 ug/L
RT: 5.521 min Scan# 1316
Delta R.T. -0.000 min
Lab File: VU055573.D
Acq: 28 Sep 2023 13:08

Tgt Ion: 117 Resp: 258926
Ion Ratio Lower Upper
117 100
119 96.1 75.2 112.8

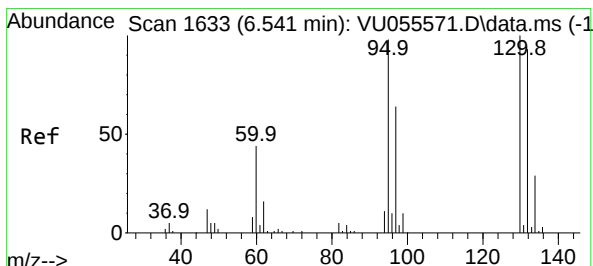
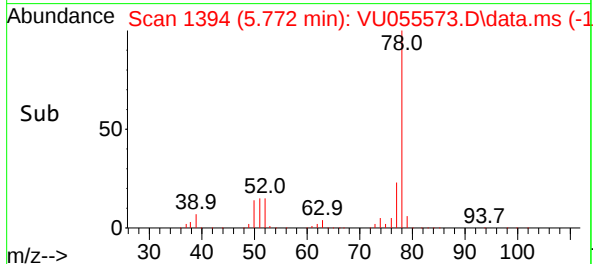
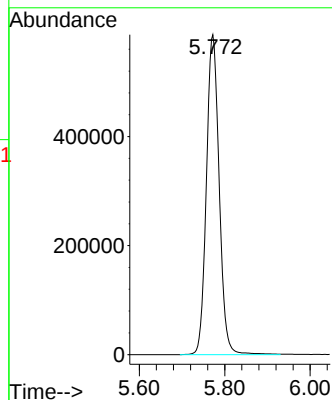
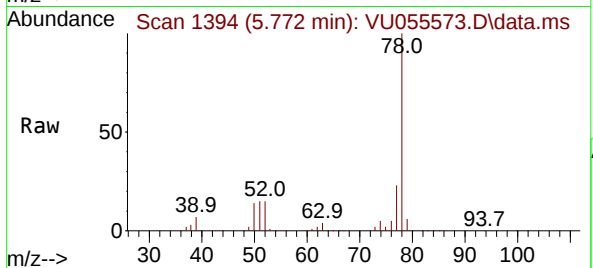




#33
Benzene
Concen: 18.396 ug/L
RT: 5.772 min Scan# 1394
Delta R.T. -0.000 min
Lab File: VU055573.D
Acq: 28 Sep 2023 13:08

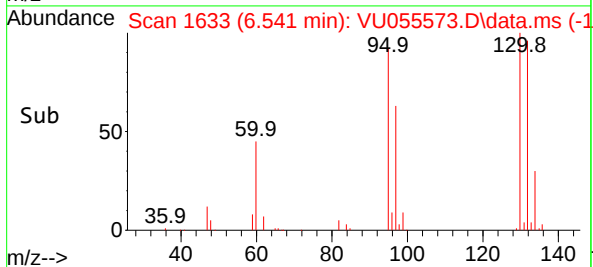
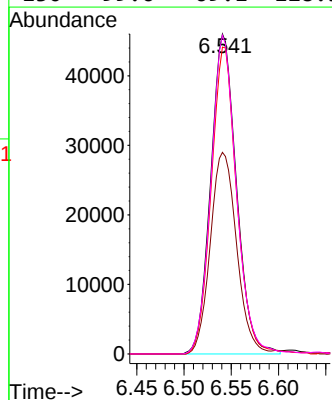
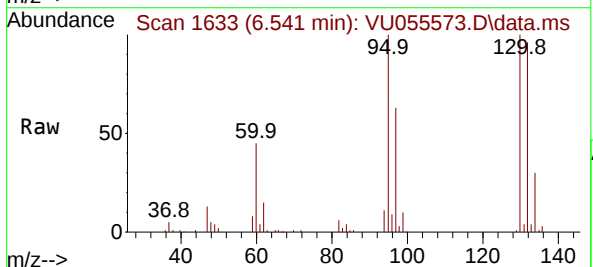
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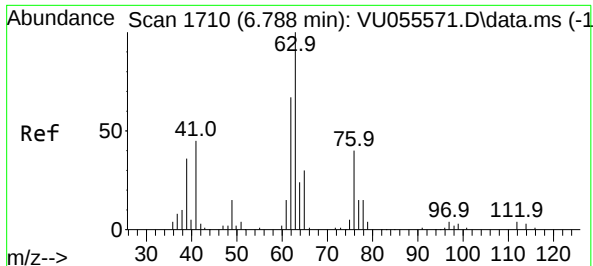
Tgt Ion: 78 Resp: 1220222



#34
Trichloroethene
Concen: 4.637 ug/L
RT: 6.541 min Scan# 1633
Delta R.T. -0.000 min
Lab File: VU055573.D
Acq: 28 Sep 2023 13:08

Tgt Ion: 95 Resp: 86997
Ion Ratio Lower Upper
95 100
97 63.0 45.4 84.2
132 95.9 65.2 121.2
130 99.6 69.1 128.3

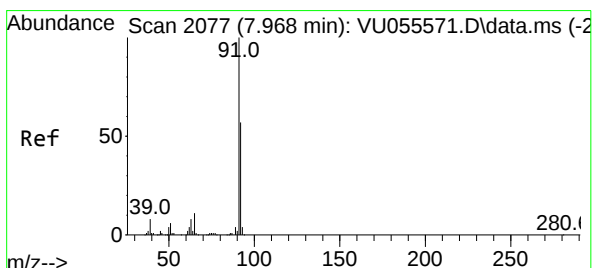
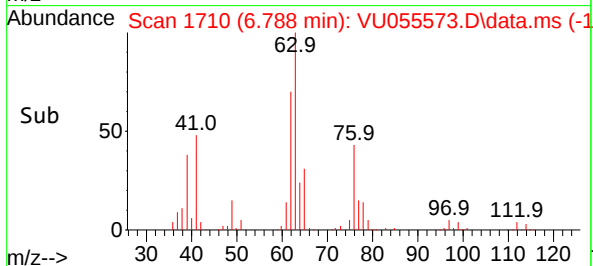
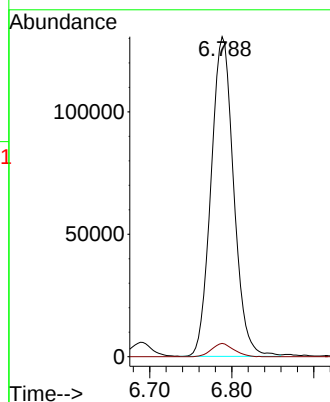
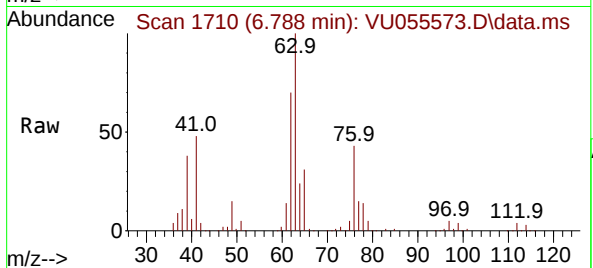




#37
1,2-Dichloropropane
Concen: 14.471 ug/L
RT: 6.788 min Scan# 1710
Delta R.T. -0.000 min
Lab File: VU055573.D
Acq: 28 Sep 2023 13:08

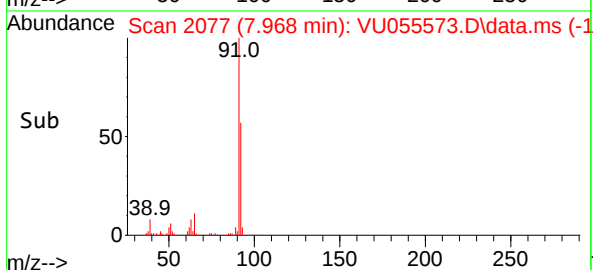
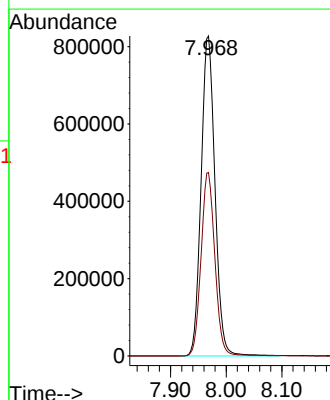
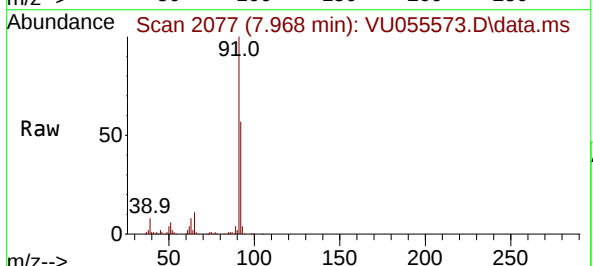
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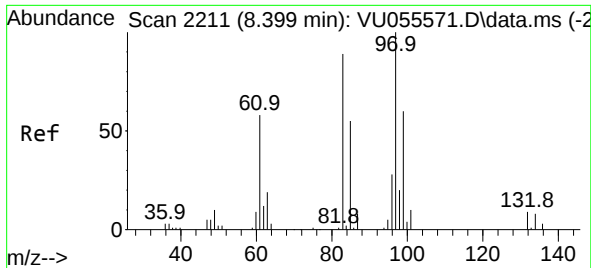
Tgt Ion: 63 Resp: 251033
Ion Ratio Lower Upper
63 100
112 4.1 3.0 4.6



#42
Toluene
Concen: 20.275 ug/L
RT: 7.968 min Scan# 2077
Delta R.T. 0.003 min
Lab File: VU055573.D
Acq: 28 Sep 2023 13:08

Tgt Ion: 91 Resp: 1434535
Ion Ratio Lower Upper
91 100
92 57.4 40.3 74.8

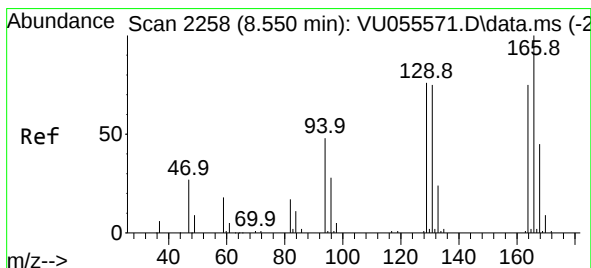
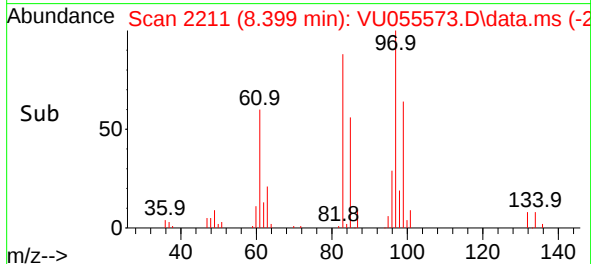
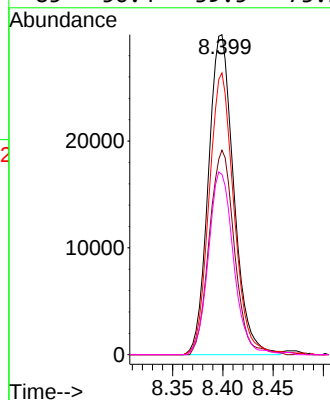
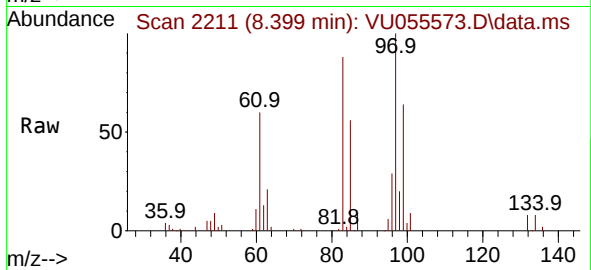




#45
1,1,2-Trichloroethane
Concen: 4.329 ug/L
RT: 8.399 min Scan# 2211
Delta R.T. 0.003 min
Lab File: VU055573.D
Acq: 28 Sep 2023 13:08

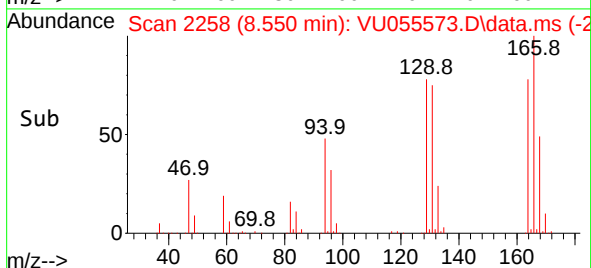
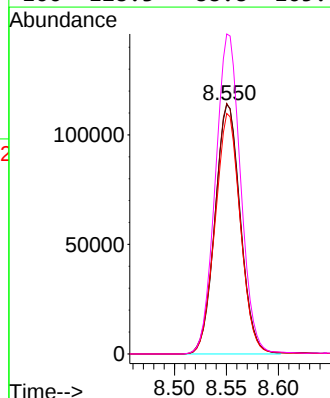
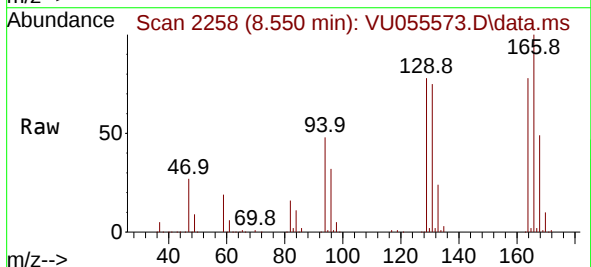
Instrument :
MSVOA_U
ClientSampleId :
DCJK4

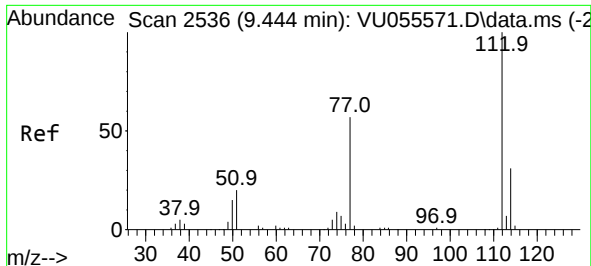
Tgt Ion:	97	Resp:	52651
Ion	Ratio	Lower	Upper
97	100		
99	63.9	44.1	81.9
83	88.1	61.5	114.1
85	56.4	39.5	73.3



#47
Tetrachloroethene
Concen: 14.341 ug/L
RT: 8.550 min Scan# 2258
Delta R.T. -0.000 min
Lab File: VU055573.D
Acq: 28 Sep 2023 13:08

Tgt Ion:	164	Resp:	193018
Ion	Ratio	Lower	Upper
164	100		
129	100.4	67.4	125.2
131	96.4	66.4	123.2
166	128.3	88.8	165.0

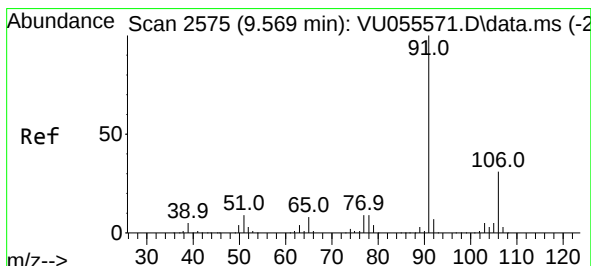
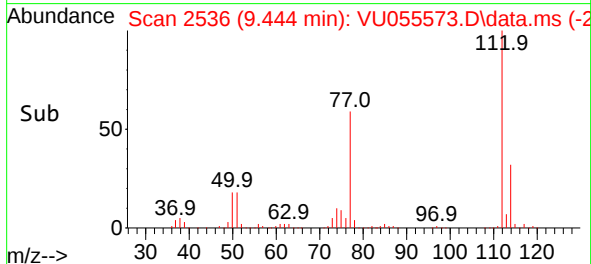
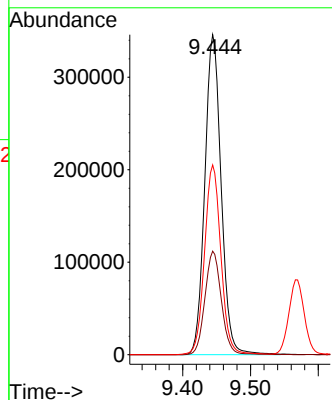
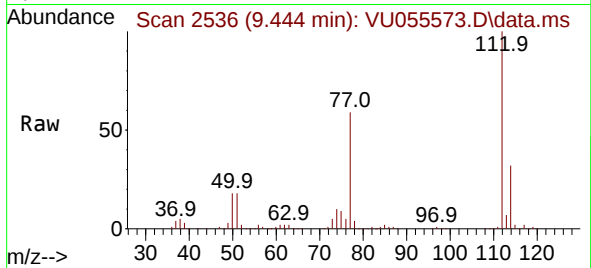




#51
Chlorobenzene
Concen: 12.802 ug/L
RT: 9.444 min Scan# 2536
Delta R.T. -0.000 min
Lab File: VU055573.D
Acq: 28 Sep 2023 13:08

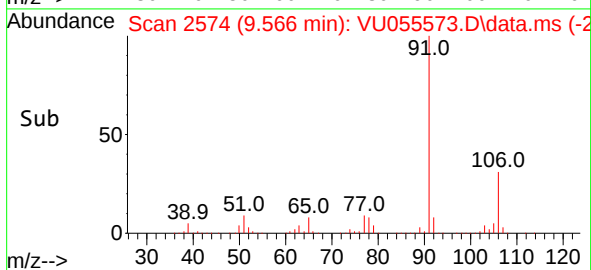
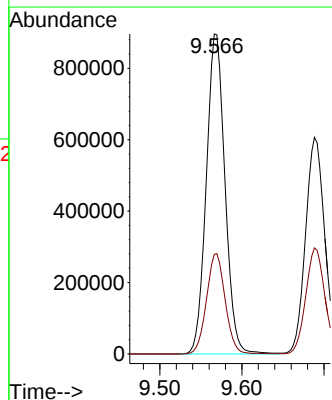
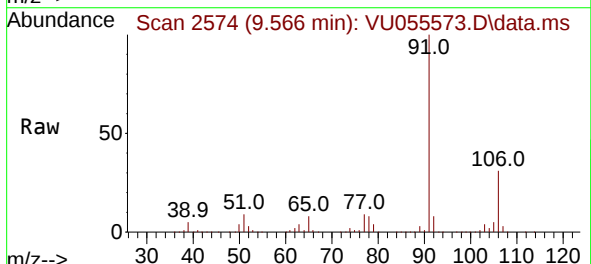
Instrument :
MSVOA_U
ClientSampleId :
DCJK4

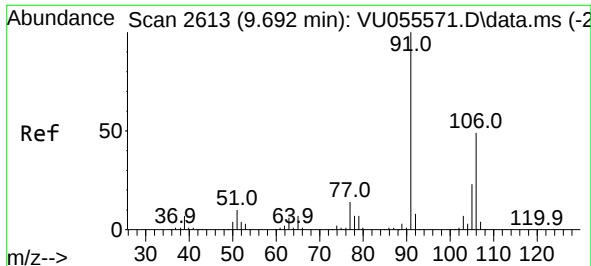
Tgt Ion:112 Resp: 580142
Ion Ratio Lower Upper
112 100
114 32.4 22.0 40.8
77 59.3 46.9 70.3



#52
Ethylbenzene
Concen: 18.676 ug/L
RT: 9.566 min Scan# 2574
Delta R.T. -0.000 min
Lab File: VU055573.D
Acq: 28 Sep 2023 13:08

Tgt Ion: 91 Resp: 1416608
Ion Ratio Lower Upper
91 100
106 31.1 22.4 41.6

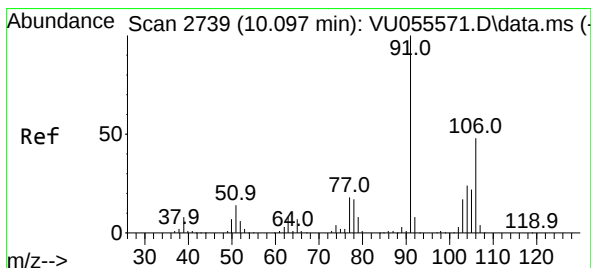
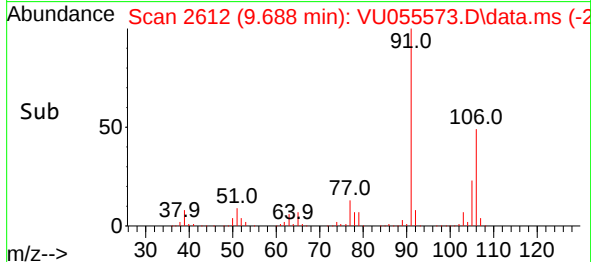
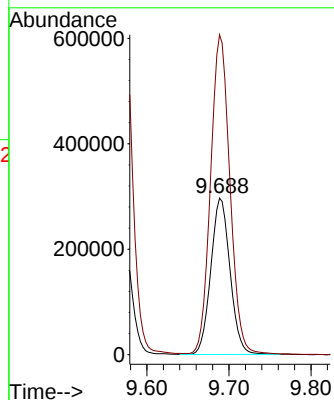
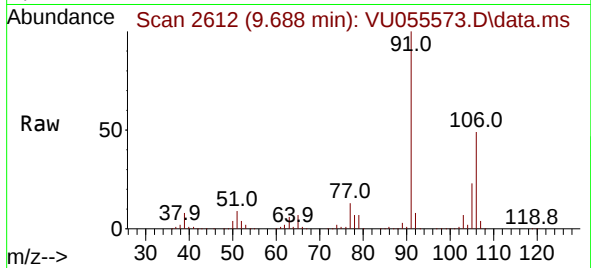




#53
m,p-Xylene
Concen: 16.949 ug/L
RT: 9.688 min Scan# 20
Delta R.T. -0.004 min
Lab File: VU055573.D
Acq: 28 Sep 2023 13:08

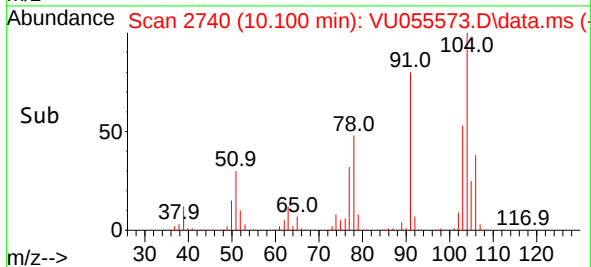
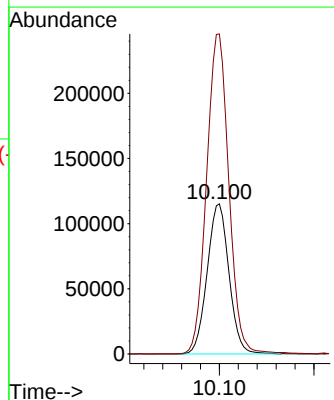
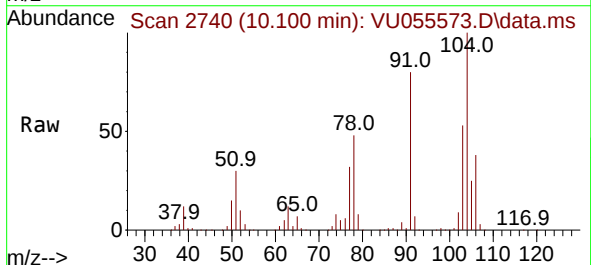
Instrument :
MSVOA_U
ClientSampleId :
DCJK4

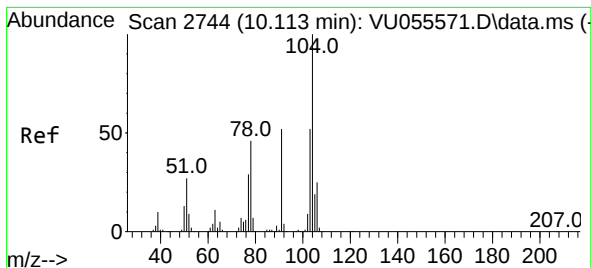
Tgt Ion:106 Resp: 481781
Ion Ratio Lower Upper
106 100
91 204.2 144.8 269.0



#54
o-Xylene
Concen: 6.673 ug/L
RT: 10.100 min Scan# 2740
Delta R.T. 0.003 min
Lab File: VU055573.D
Acq: 28 Sep 2023 13:08

Tgt Ion:106 Resp: 184424
Ion Ratio Lower Upper
106 100
91 213.2 157.6 292.8





#55

Styrene

Concen: 22.267 ug/L

RT: 10.113 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU055573.D

Acq: 28 Sep 2023 13:08

Instrument :

MSVOA_U

ClientSampleId :

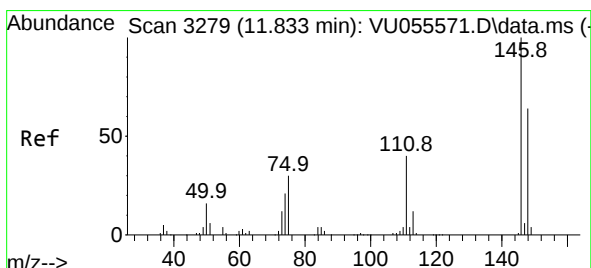
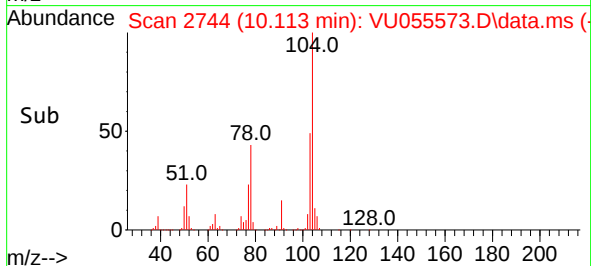
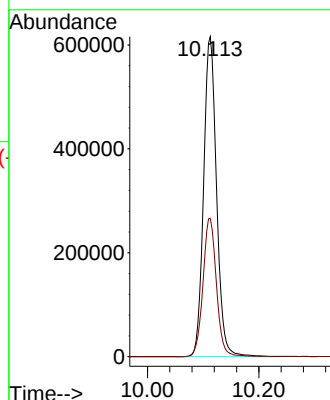
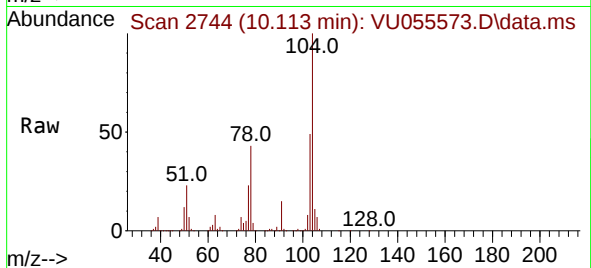
DCJK4

Tgt Ion:104 Resp: 995060

Ion Ratio Lower Upper

104 100

78 43.2 31.2 58.0



#65

1,4-Dichlorobenzene

Concen: 17.204 ug/L

RT: 11.833 min Scan# 3279

Delta R.T. -0.000 min

Lab File: VU055573.D

Acq: 28 Sep 2023 13:08

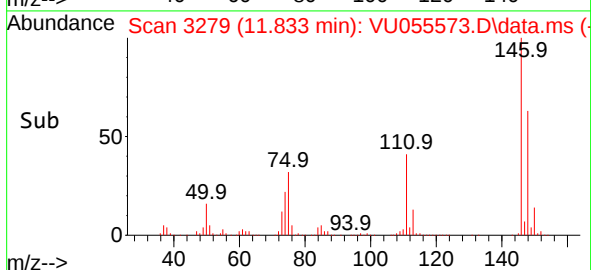
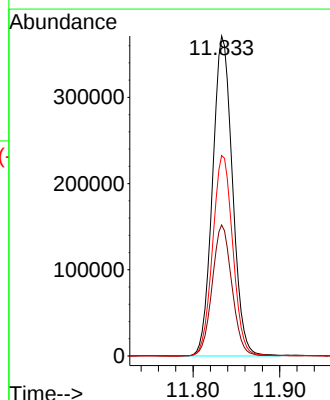
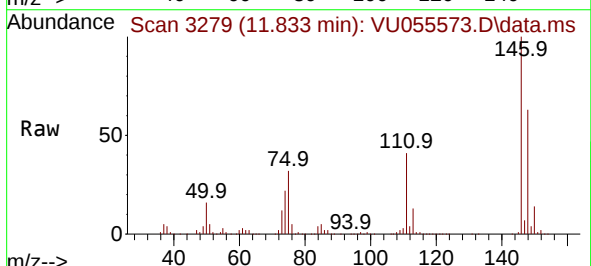
Tgt Ion:146 Resp: 593636

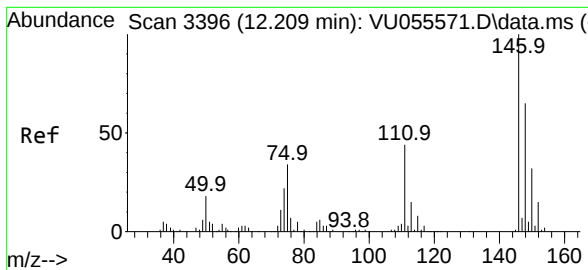
Ion Ratio Lower Upper

146 100

111 41.0 29.0 53.8

148 62.6 45.4 84.4

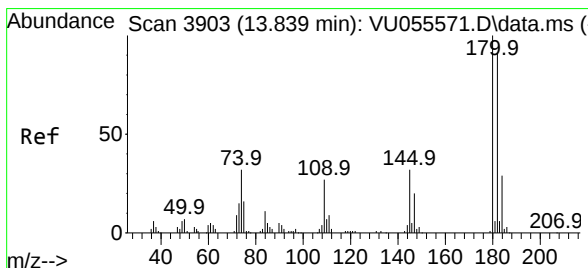
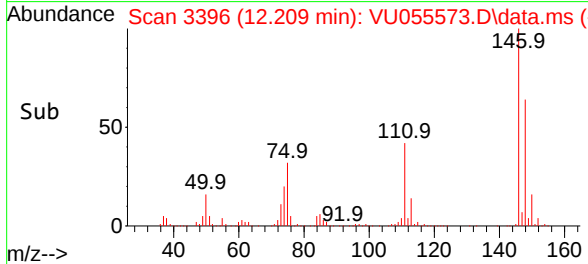
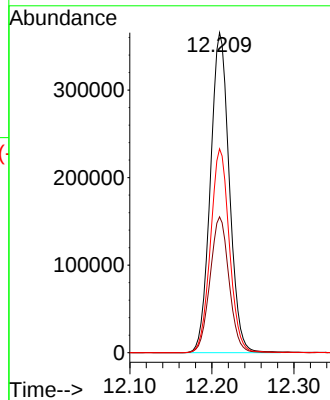
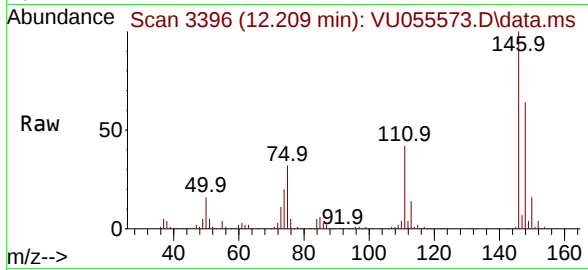




#67
1,2-Dichlorobenzene
Concen: 18.486 ug/L
RT: 12.209 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU055573.D
Acq: 28 Sep 2023 13:08

Instrument :
MSVOA_U
ClientSampleId :
DCJK4

Tgt Ion:146 Resp: 585120
Ion Ratio Lower Upper
146 100
111 42.5 34.6 52.0
148 63.7 51.8 77.8



#70
1,2,4-trichlorobenzene
Concen: 8.435 ug/L
RT: 13.839 min Scan# 3903
Delta R.T. 0.003 min
Lab File: VU055573.D
Acq: 28 Sep 2023 13:08

Tgt Ion:180 Resp: 152889
Ion Ratio Lower Upper
180 100
182 96.4 76.4 114.6
145 31.7 25.4 38.0

