

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121423\
 Data File : VU056860.D
 Acq On : 15 Dec 2023 01:26
 Operator : MD/SY
 Sample : 05770-07
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 15 05:11:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR121123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Dec 15 01:53:53 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	222571	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	228947	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	119330	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.589	65	51456	2.697	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	54.000%
7) Chloroethane-d5	1.904	69	50151	3.513	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	70.200%
11) 1,1-Dichloroethene-d2	2.554	65	23828	2.919	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	58.400%#
20) 2-Butanone-d5	4.737	46	146975	39.010	ug/L	0.12
Spiked Amount	50.000	Range	40 - 130	Recovery	=	78.020%
24) Chloroform-d	5.052	84	150463	4.165	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.200%
26) 1,2-Dichloroethane-d4	5.695	65	71991	4.211	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.200%
32) Benzene-d6	5.714	84	263856	3.716	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	74.400%
36) 1,2-Dichloropropane-d6	6.685	67	91014	4.095	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	81.800%
41) Toluene-d8	7.891	98	207581	3.271	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	65.400%#
43) trans-1,3-Dichloroprop...	8.177	79	30555	3.545	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	70.800%
46) 2-Hexanone-d5	8.644	63	123798	38.080	ug/L	0.01
Spiked Amount	50.000	Range	45 - 130	Recovery	=	76.160%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	71634	4.454	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.000%
66) 1,2-Dichlorobenzene-d4	12.187	152	94335	4.022	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	80.400%
Target Compounds						
					Qvalue	
3) Chloromethane	1.509	50	4455	0.194	ug/L	94
5) Vinyl chloride	1.596	62	4654	0.204	ug/L	83
8) Chloroethane	1.914	64	7043	0.528	ug/L #	52
14) Carbon disulfide	2.776	76	89608	1.429	ug/L	99
22) cis-1,2-Dichloroethene	4.657	96	20257	1.016	ug/L	96
30) Cyclohexane	5.367	56	6226	0.200	ug/L	96
33) Benzene	5.763	78	540314	6.715	ug/L	100
34) Trichloroethene	6.531	95	28972	1.313	ug/L	97
35) Methylcyclohexane	6.750	83	9430	0.290	ug/L	94
42) Toluene	7.962	91	655132	7.869	ug/L	100
45) 1,1,2-Trichloroethane	8.361	97	5725	0.411	ug/L #	23
48) 2-Hexanone	8.698	43	5082	0.730	ug/L #	83
51) Chlorobenzene	9.441	112	110312	2.079	ug/L	98
52) Ethylbenzene	9.566	91	50118	0.546	ug/L	100
53) m,p-Xylene	9.689	106	26836	0.784	ug/L	95
54) o-Xylene	10.097	106	10743	0.330	ug/L	92
57) 1,1,2,2-Tetrachloroethane	10.801	83	29540	1.757	ug/L #	34
60) Isopropylbenzene	10.480	105	28370	0.301	ug/L	96
61) 1,2,3-Trichloropropane	11.463	75	1932	0.151	ug/L #	1

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121423\
Data File : VU056860.D
Acq On : 15 Dec 2023 01:26
Operator : MD/SY
Sample : 05770-07
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Dec 15 05:11:19 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR121123WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Dec 15 01:53:53 2023
Response via : Initial Calibration

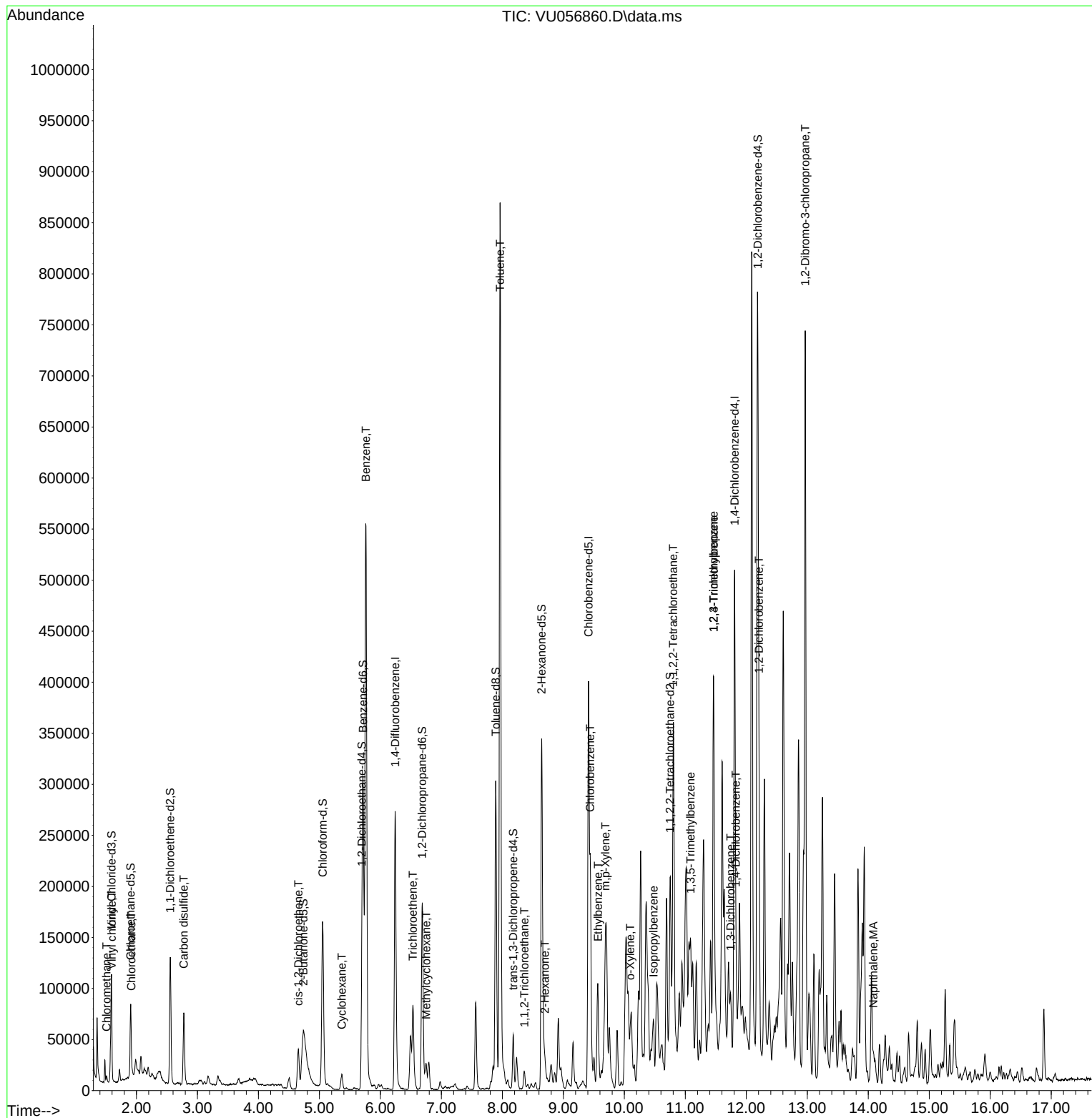
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	11.084	105	36365	0.472	ug/L	94
63) 1,2,4-Trimethylbenzene	11.463	105	164188	2.145	ug/L	98
64) 1,3-Dichlorobenzene	11.743	146	4724	0.106	ug/L #	43
65) 1,4-Dichlorobenzene	11.830	146	22668	0.516	ug/L	89
67) 1,2-Dichlorobenzene	12.206	146	54915	1.352	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.965	75	3142	1.228	ug/L #	7
71) Naphthalene	14.084	128	23098	0.591	ug/L #	91

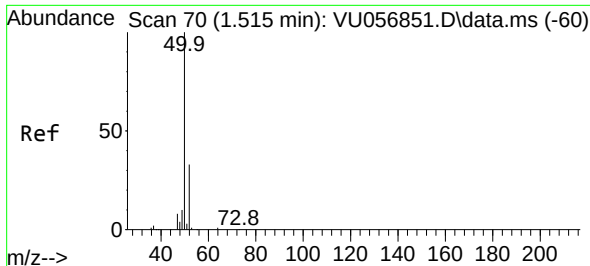
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121423\
Data File : VU056860.D
Acq On : 15 Dec 2023 01:26
Operator : MD/SY
Sample : 05770-07
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Dec 15 05:11:19 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR121123WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Dec 15 01:53:53 2023
Response via : Initial Calibration

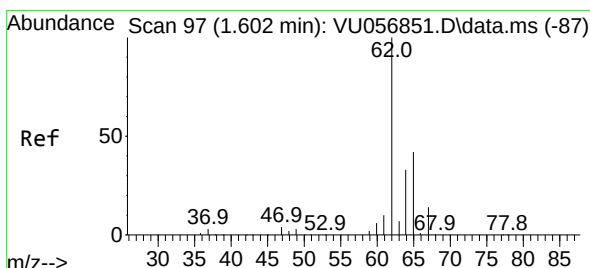
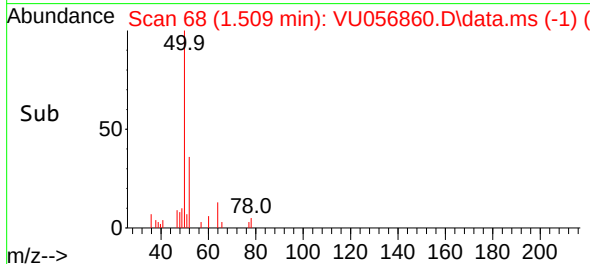
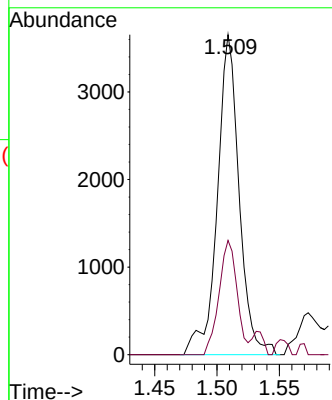
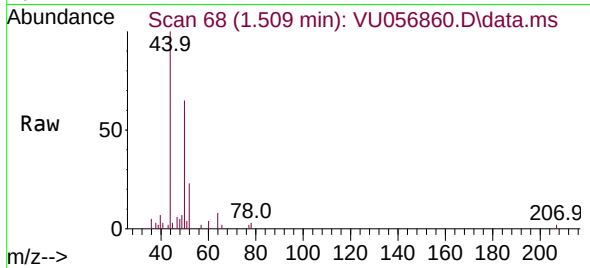




#3
Chloromethane
Concen: 0.194 ug/L
RT: 1.509 min Scan# 61
Delta R.T. -0.006 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

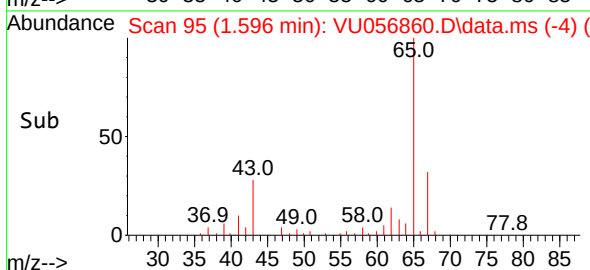
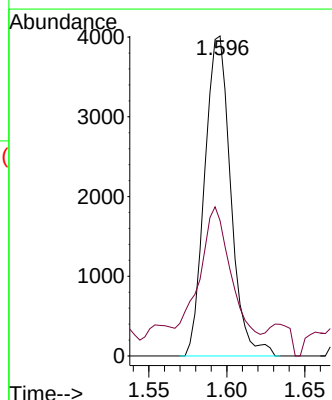
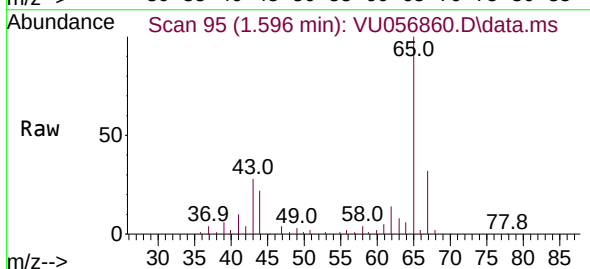
Instrument :
MSVOA_U
ClientSampleId :

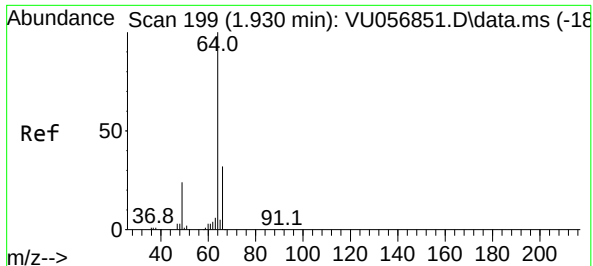
Tgt Ion: 50 Resp: 4455
Ion Ratio Lower Upper
50 100
52 35.7 22.5 41.7



#5
Vinyl chloride
Concen: 0.204 ug/L
RT: 1.596 min Scan# 95
Delta R.T. -0.006 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

Tgt Ion: 62 Resp: 4654
Ion Ratio Lower Upper
62 100
64 42.3 22.8 42.4

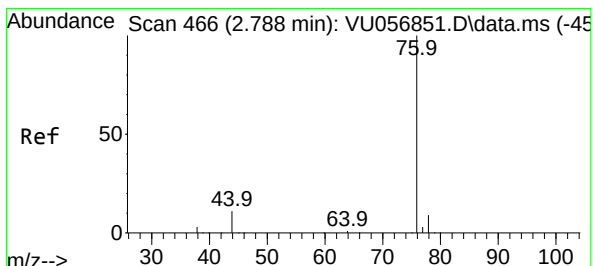
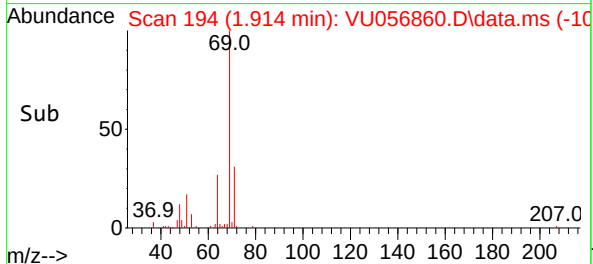
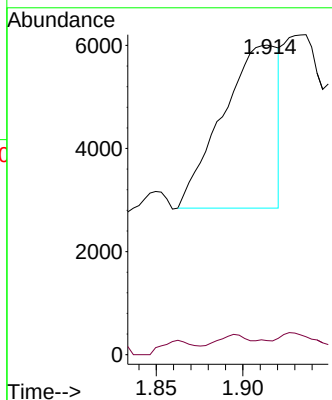
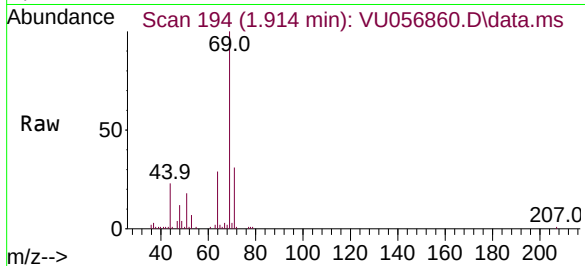




#8
Chloroethane
Concen: 0.528 ug/L
RT: 1.914 min Scan# 199
Delta R.T. -0.016 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

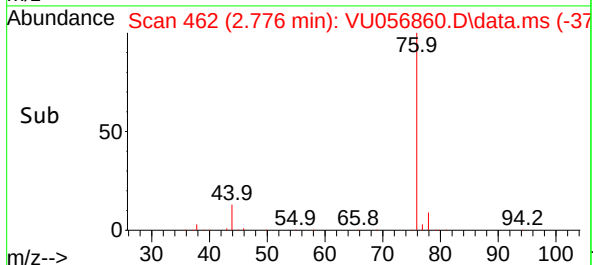
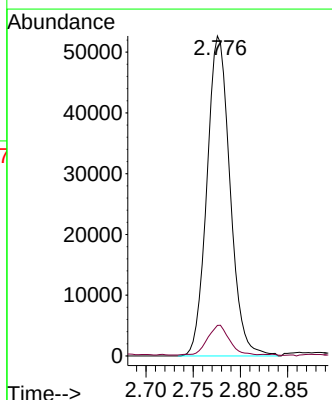
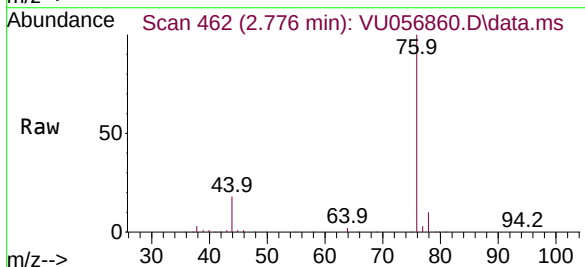
Instrument :
MSVOA_U
ClientSampleId :

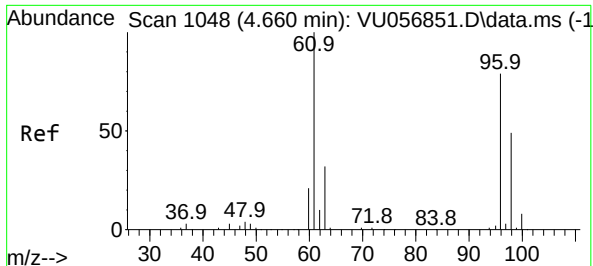
Tgt Ion: 64 Resp: 7043
Ion Ratio Lower Upper
64 100
66 4.5 21.4 39.8#



#14
Carbon disulfide
Concen: 1.429 ug/L
RT: 2.776 min Scan# 462
Delta R.T. -0.013 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

Tgt Ion: 76 Resp: 89608
Ion Ratio Lower Upper
76 100
78 9.6 7.3 10.9



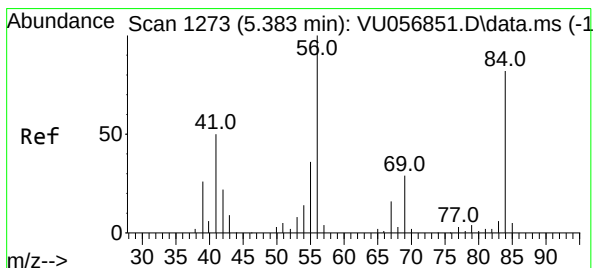
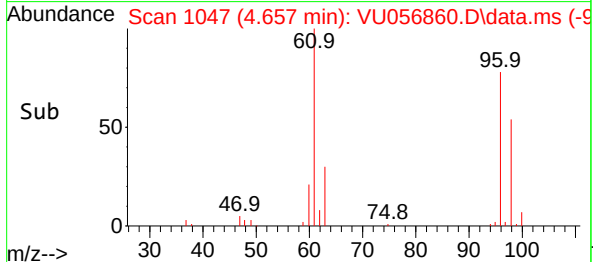
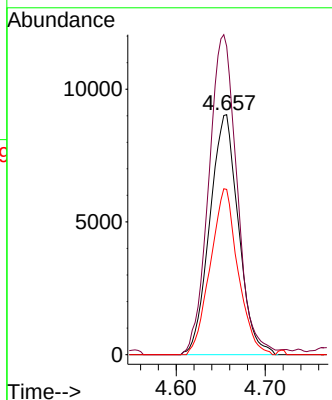
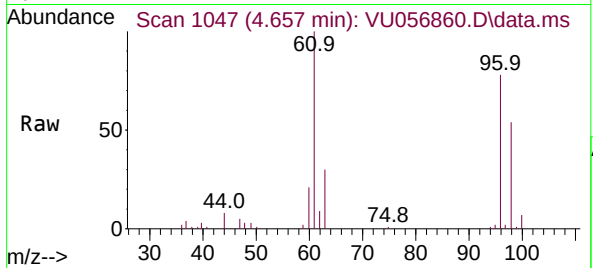


#22
 cis-1,2-Dichloroethene
 Concen: 1.016 ug/L
 RT: 4.657 min Scan# 1047
 Delta R.T. -0.003 min
 Lab File: VU056860.D
 Acq: 15 Dec 2023 01:26

Instrument :
 MSVOA_U
 ClientSampleId :

Tgt Ion: 96 Resp: 20257

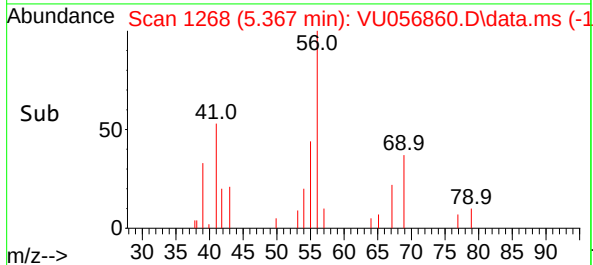
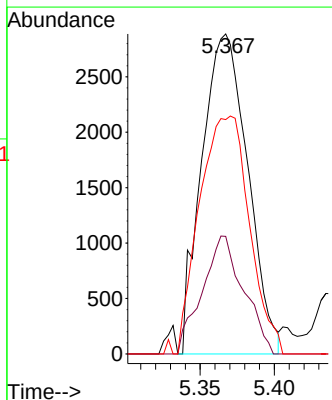
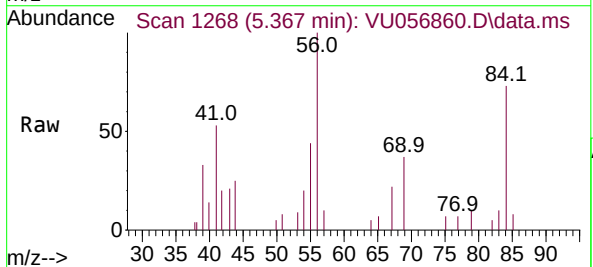
Ion	Ratio	Lower	Upper
96	100		
61	128.5	91.3	169.6
98	68.9	44.2	82.0

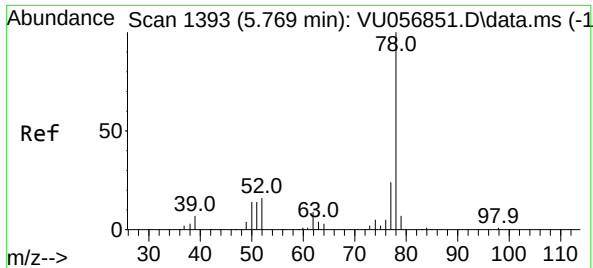


#30
 Cyclohexane
 Concen: 0.200 ug/L
 RT: 5.367 min Scan# 1268
 Delta R.T. -0.016 min
 Lab File: VU056860.D
 Acq: 15 Dec 2023 01:26

Tgt Ion: 56 Resp: 6226

Ion	Ratio	Lower	Upper
56	100		
69	33.1	24.9	37.3
84	80.8	67.6	101.4





#33

Benzene

Concen: 6.715 ug/L

RT: 5.763 min Scan# 1

Delta R.T. -0.006 min

Lab File: VU056860.D

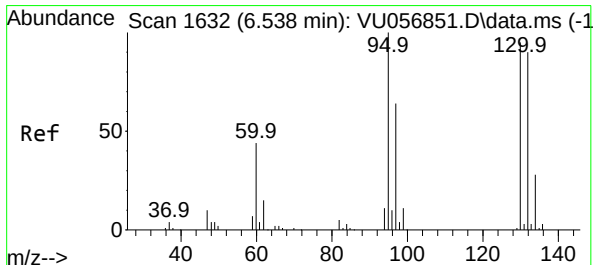
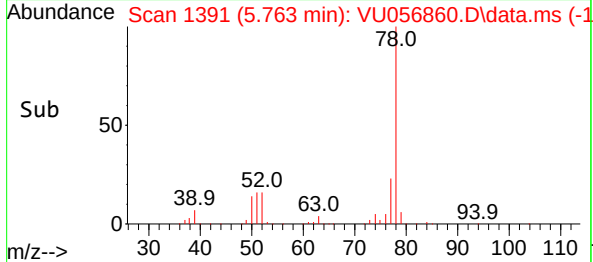
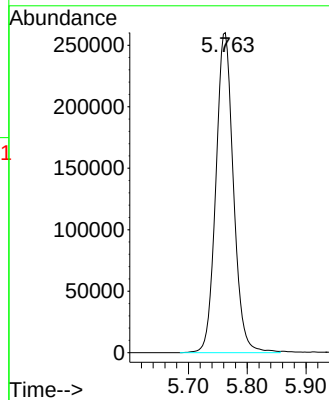
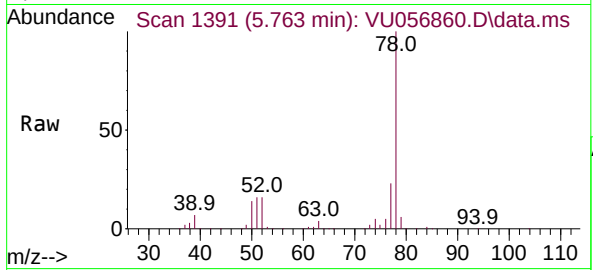
Acq: 15 Dec 2023 01:26

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 540314



#34

Trichloroethene

Concen: 1.313 ug/L

RT: 6.531 min Scan# 1630

Delta R.T. -0.006 min

Lab File: VU056860.D

Acq: 15 Dec 2023 01:26

Tgt Ion: 95 Resp: 28972

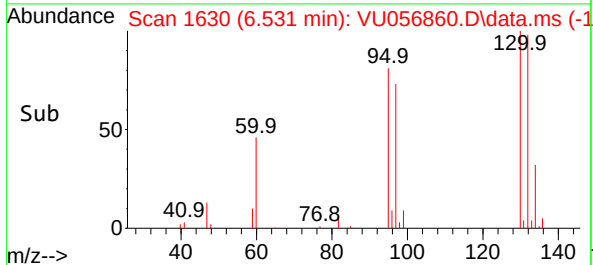
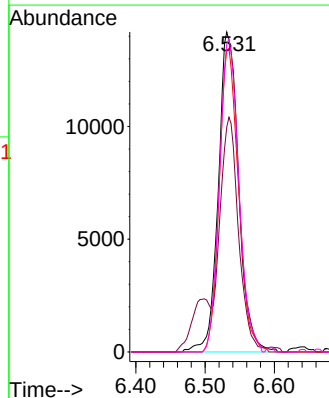
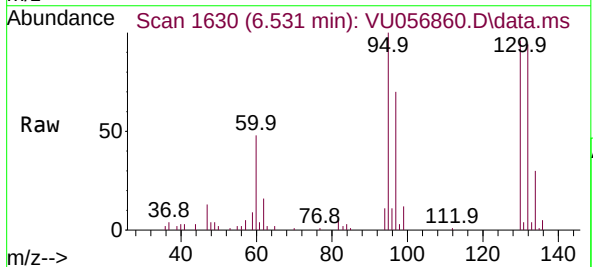
Ion Ratio Lower Upper

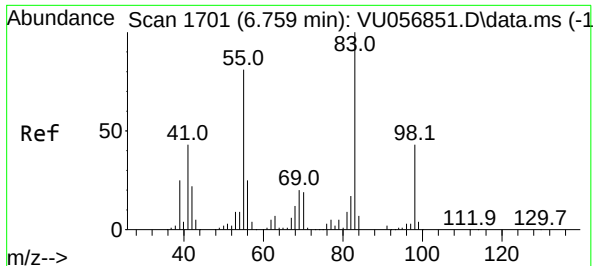
95 100

97 70.3 46.1 85.5

132 94.4 63.6 118.0

130 96.3 66.4 123.4

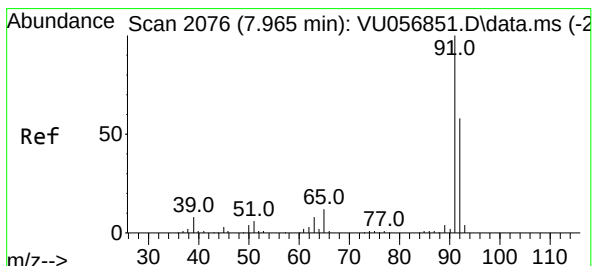
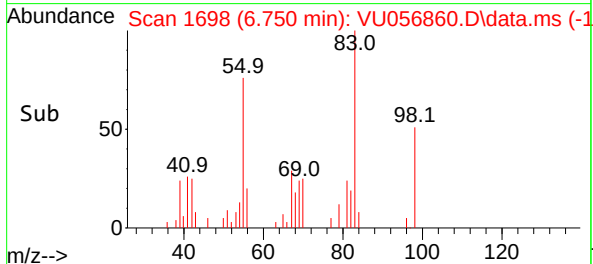
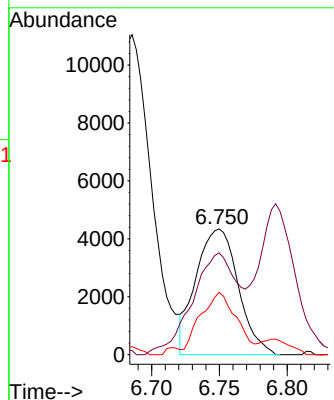
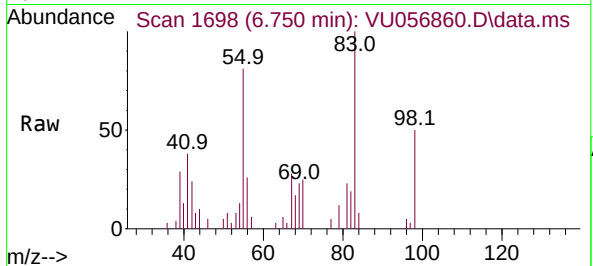




#35
Methylcyclohexane
Concen: 0.290 ug/L
RT: 6.750 min Scan# 1
Delta R.T. -0.010 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

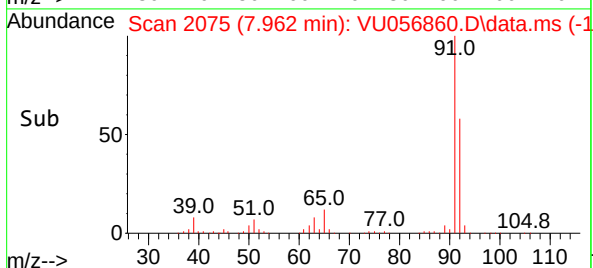
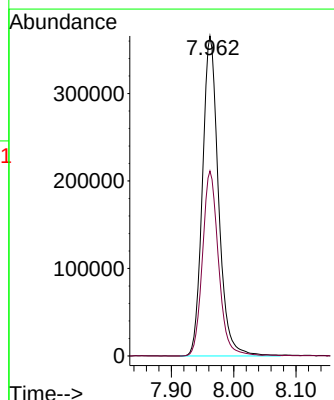
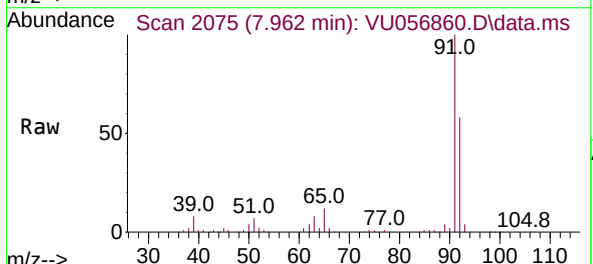
Instrument :
MSVOA_U
ClientSampleId :

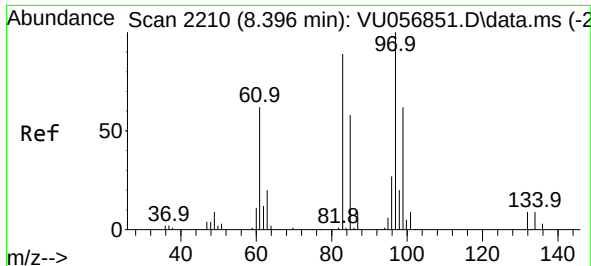
Tgt Ion: 83 Resp: 9430
Ion Ratio Lower Upper
83 100
55 87.4 64.6 97.0
98 42.5 36.1 54.1



#42
Toluene
Concen: 7.869 ug/L
RT: 7.962 min Scan# 2075
Delta R.T. -0.003 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

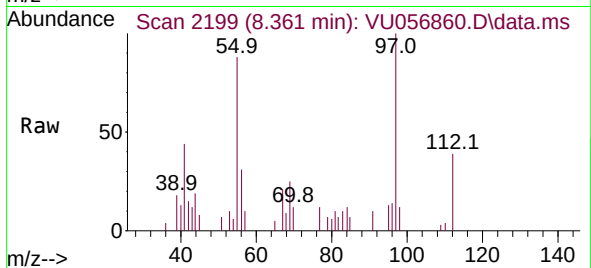
Tgt Ion: 91 Resp: 655132
Ion Ratio Lower Upper
91 100
92 57.8 40.4 75.0



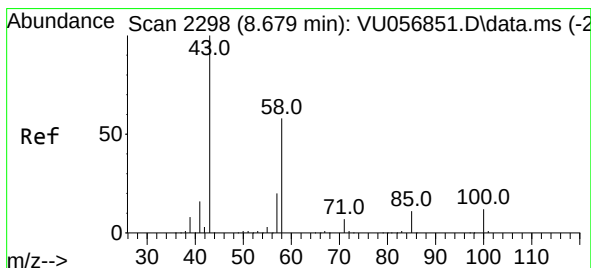
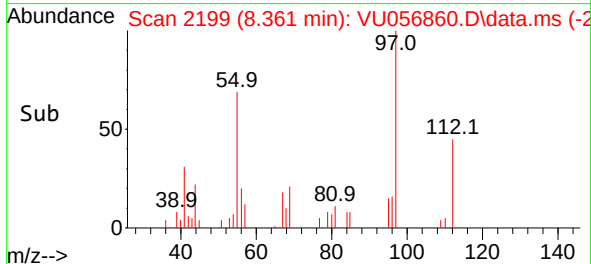
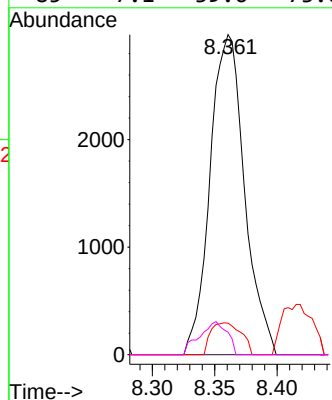


#45
1,1,2-Trichloroethane
Concen: 0.411 ug/L
RT: 8.361 min Scan# 2199
Delta R.T. -0.035 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

Instrument :
MSVOA_U
ClientSampleId :

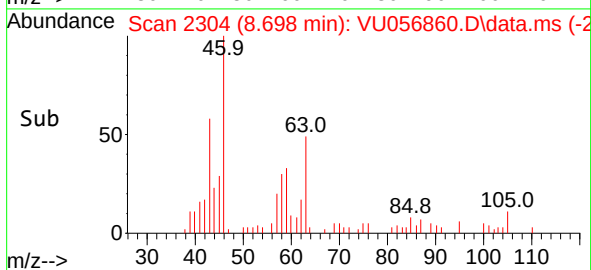
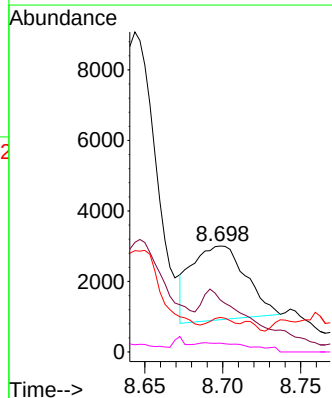
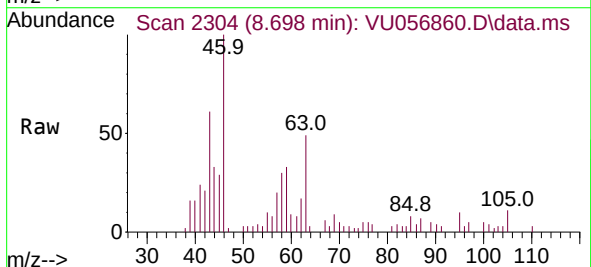


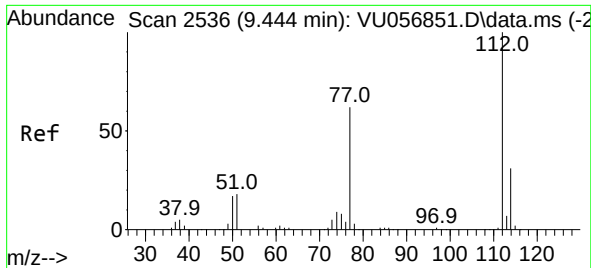
Tgt Ion:	97	Resp:	5725
Ion	Ratio	Lower	Upper
97	100		
99	0.0	41.9	77.9#
83	9.8	59.1	109.7#
85	7.1	39.6	73.6#



#48
2-Hexanone
Concen: 0.730 ug/L
RT: 8.698 min Scan# 2304
Delta R.T. 0.019 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

Tgt Ion:	43	Resp:	5082
Ion	Ratio	Lower	Upper
43	100		
58	70.6	47.5	71.3
57	6.3	17.0	25.4#
100	12.6	9.8	14.8

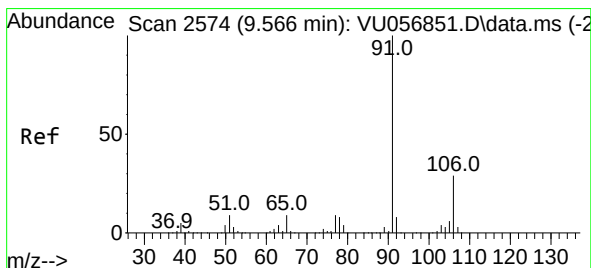
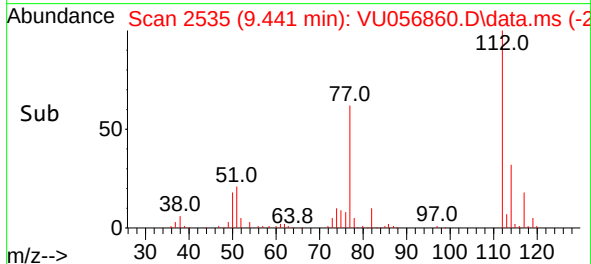
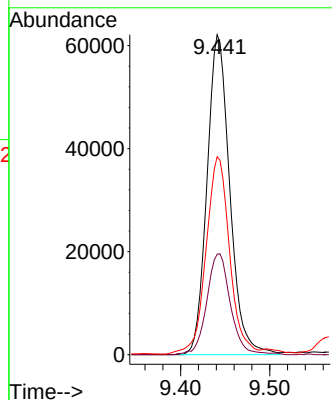
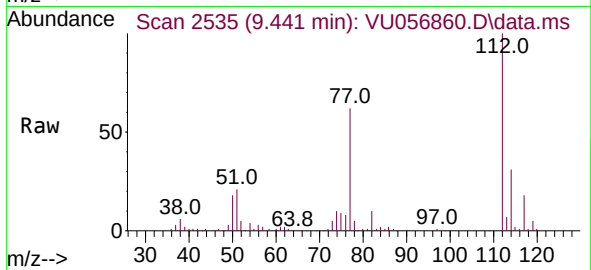




#51
Chlorobenzene
Concen: 2.079 ug/L
RT: 9.441 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

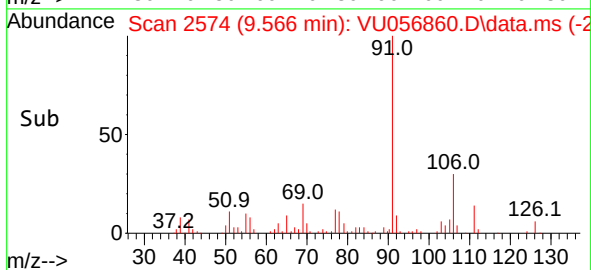
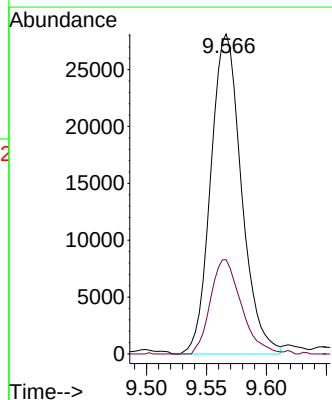
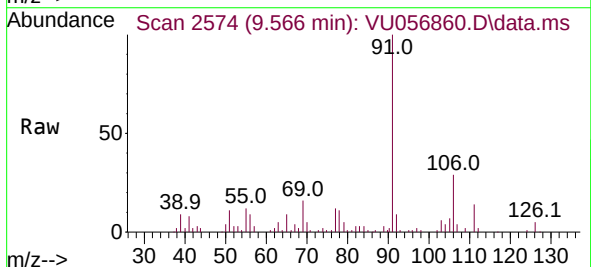
Instrument :
MSVOA_U
ClientSampleId :

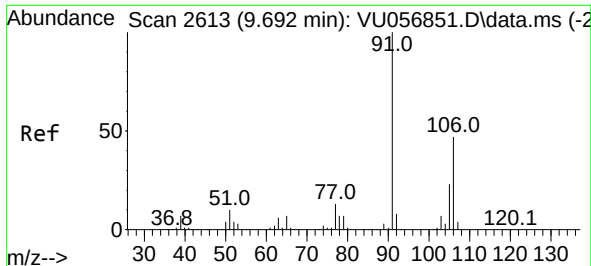
Tgt Ion:112 Resp: 110312
Ion Ratio Lower Upper
112 100
114 31.4 21.9 40.7
77 61.9 51.6 77.4



#52
Ethylbenzene
Concen: 0.546 ug/L
RT: 9.566 min Scan# 2574
Delta R.T. 0.000 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

Tgt Ion: 91 Resp: 50118
Ion Ratio Lower Upper
91 100
106 29.5 20.6 38.4

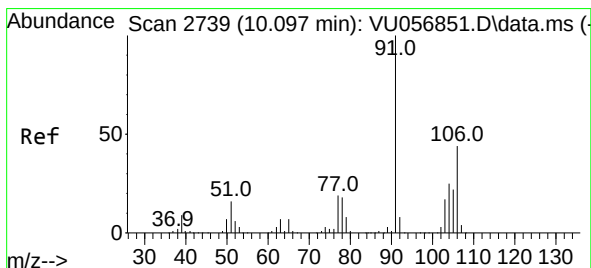
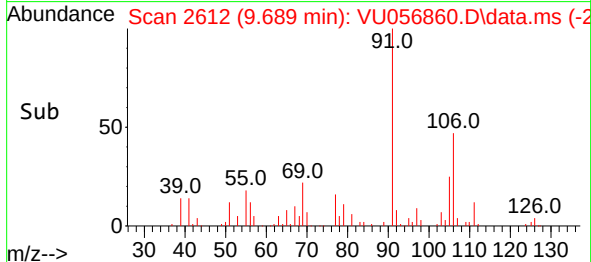
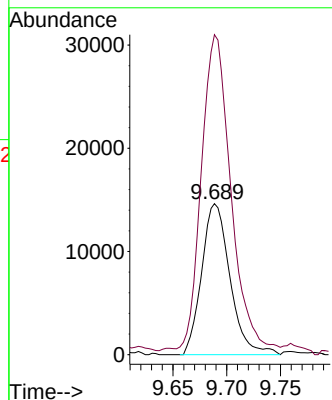
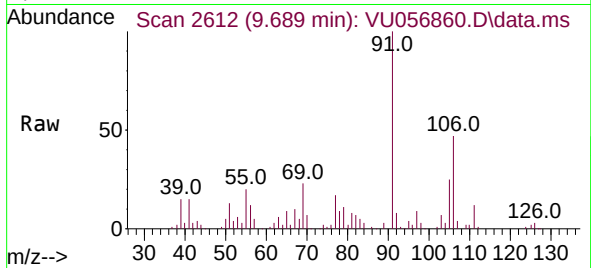




#53
m,p-Xylene
Concen: 0.784 ug/L
RT: 9.689 min Scan# 2613
Delta R.T. -0.003 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

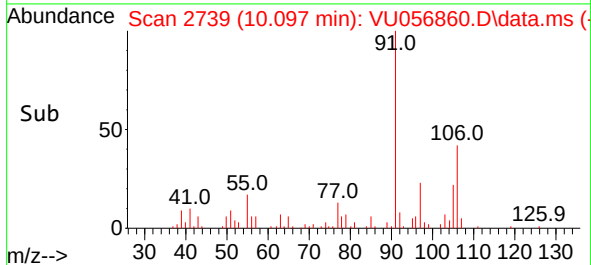
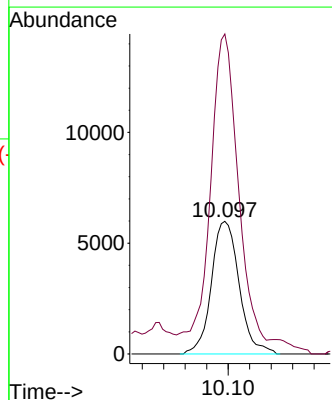
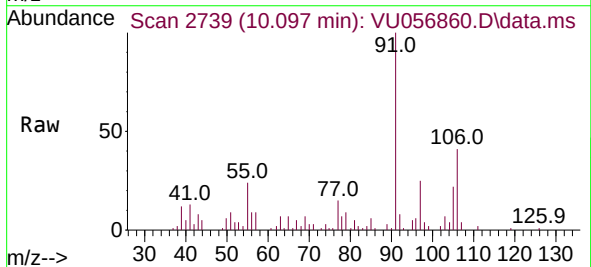
Instrument :
MSVOA_U
ClientSampleId :

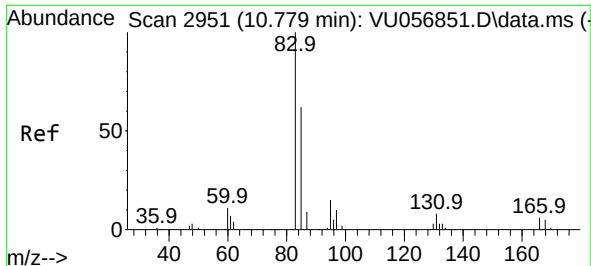
Tgt Ion:106 Resp: 26836
Ion Ratio Lower Upper
106 100
91 211.9 154.0 286.0



#54
o-Xylene
Concen: 0.330 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. 0.000 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

Tgt Ion:106 Resp: 10743
Ion Ratio Lower Upper
106 100
91 241.3 160.2 297.6

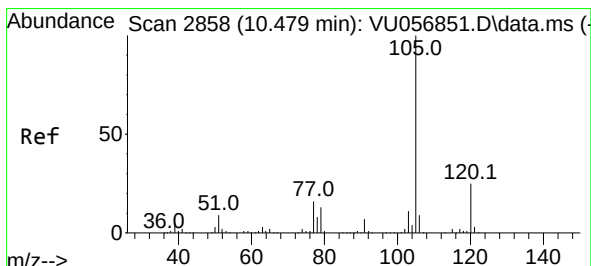
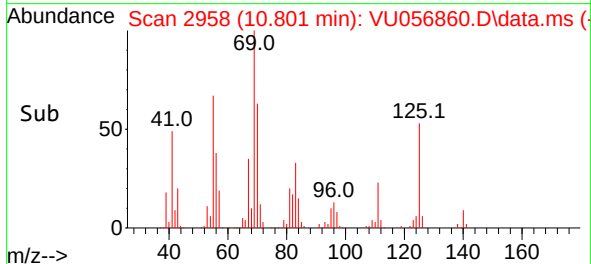
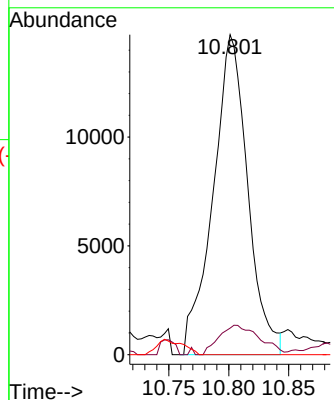
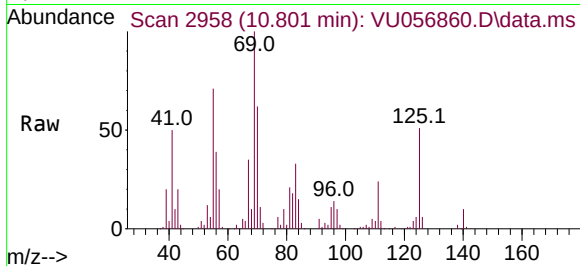




#57
1,1,2,2-Tetrachloroethane
Concen: 1.757 ug/L
RT: 10.801 min Scan# 29540
Delta R.T. 0.023 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

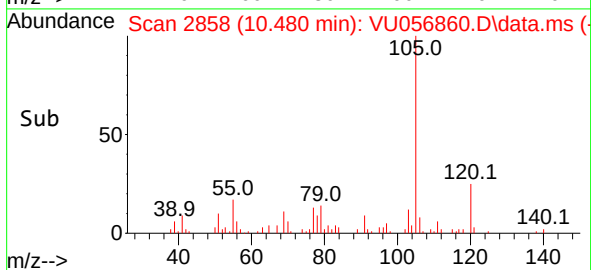
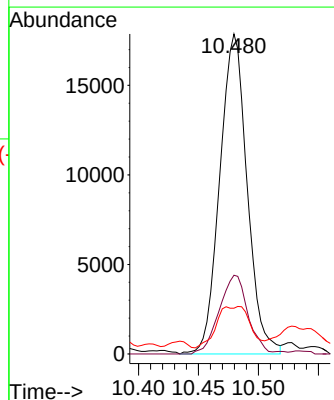
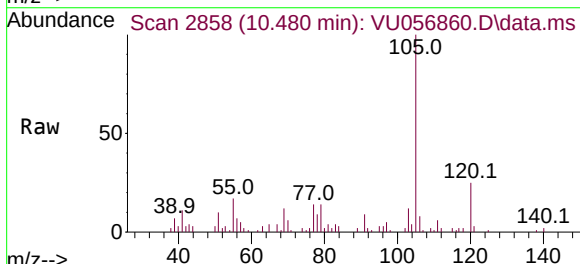
Instrument :
MSVOA_U
ClientSampleId :

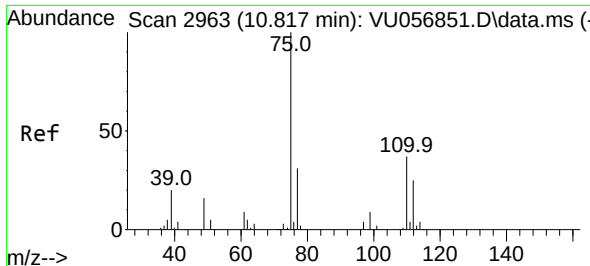
Tgt Ion: 83 Resp: 29540
Ion Ratio Lower Upper
83 100
85 8.3 45.4 84.4#
131 0.0 6.6 9.8#



#60
Isopropylbenzene
Concen: 0.301 ug/L
RT: 10.480 min Scan# 2858
Delta R.T. 0.000 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

Tgt Ion: 105 Resp: 28370
Ion Ratio Lower Upper
105 100
120 25.7 20.1 30.1
77 13.5 13.2 19.8

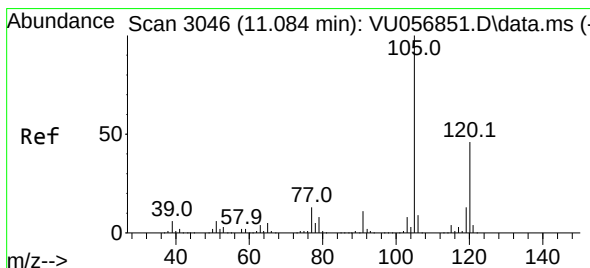
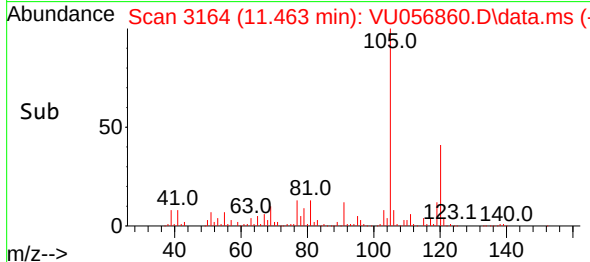
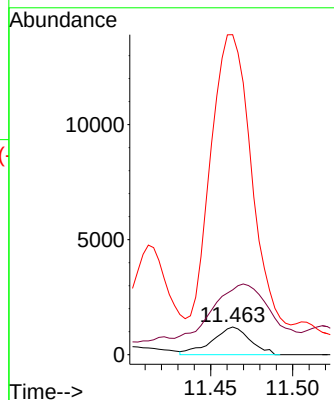
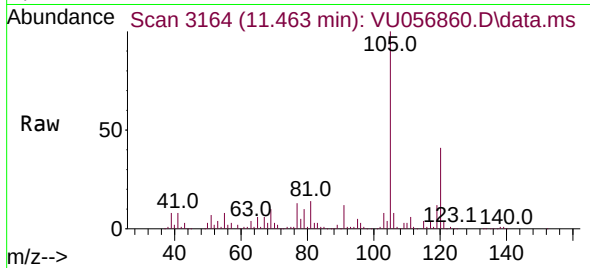




#61
1,2,3-Trichloropropane
Concen: 0.151 ug/L
RT: 11.463 min Scan# 3164
Delta R.T. 0.646 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

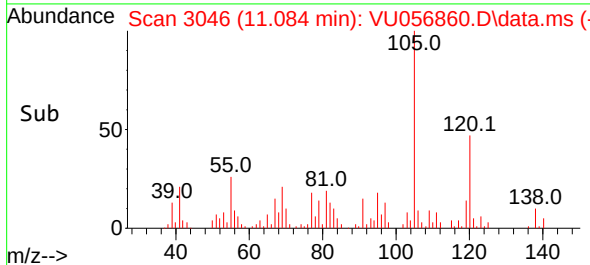
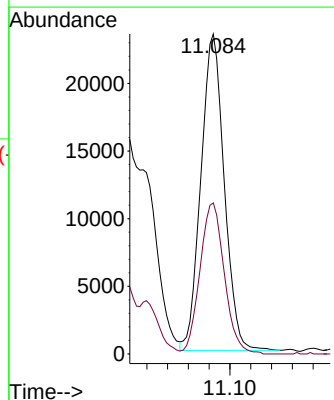
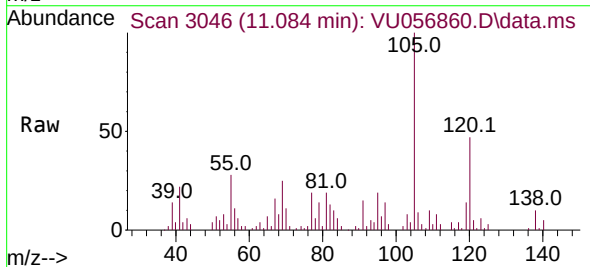
Instrument :
MSVOA_U
ClientSampleId :

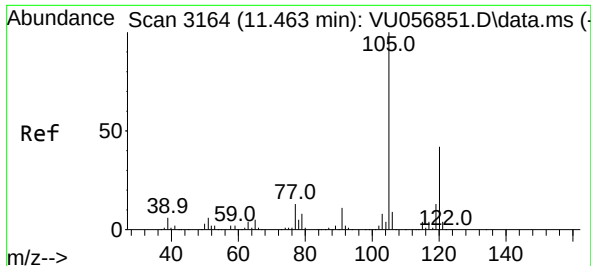
Tgt Ion: 75 Resp: 1932
Ion Ratio Lower Upper
75 100
110 285.8 28.4 42.6#
77 1120.0 26.3 39.5#



#62
1,3,5-Trimethylbenzene
Concen: 0.472 ug/L
RT: 11.084 min Scan# 3046
Delta R.T. 0.000 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

Tgt Ion: 105 Resp: 36365
Ion Ratio Lower Upper
105 100
120 50.0 36.8 55.2

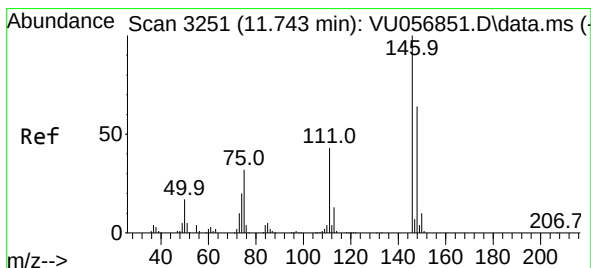
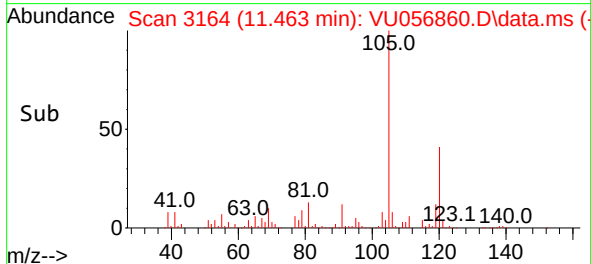
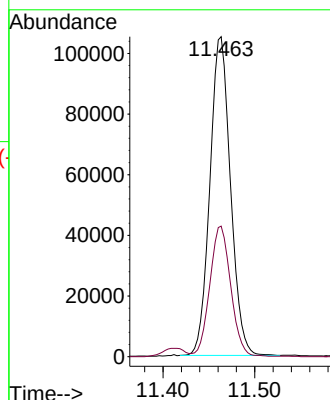
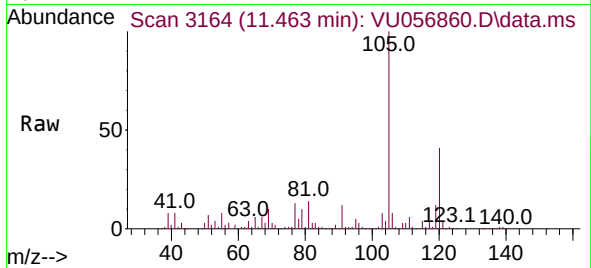




#63
1,2,4-Trimethylbenzene
Concen: 2.145 ug/L
RT: 11.463 min Scan# 3164
Delta R.T. 0.000 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

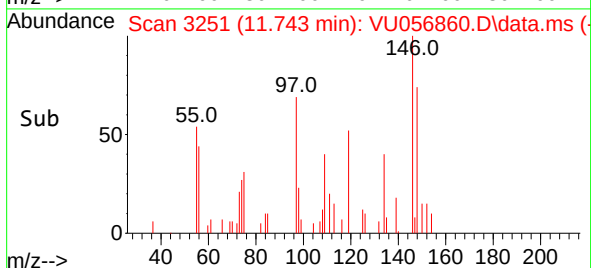
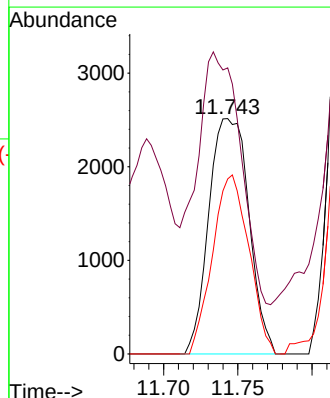
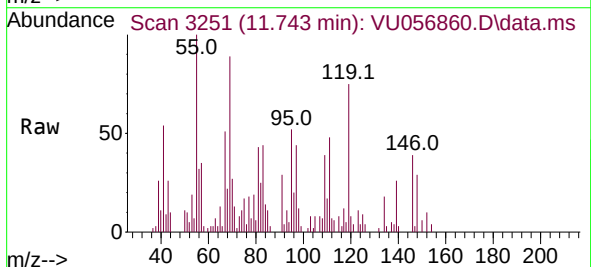
Instrument :
MSVOA_U
ClientSampleId :

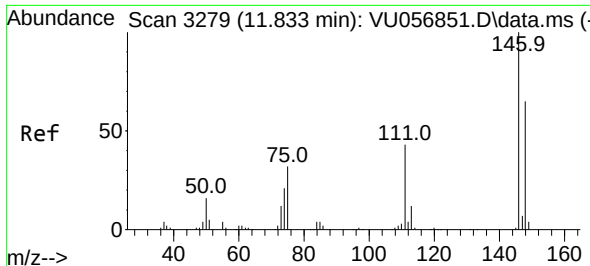
Tgt Ion:105 Resp: 164188
Ion Ratio Lower Upper
105 100
120 41.4 34.2 51.4



#64
1,3-Dichlorobenzene
Concen: 0.106 ug/L
RT: 11.743 min Scan# 3251
Delta R.T. 0.000 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

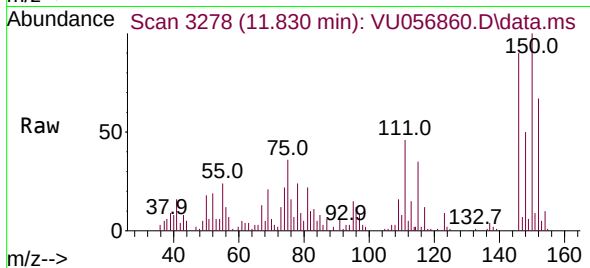
Tgt Ion:146 Resp: 4724
Ion Ratio Lower Upper
146 100
111 121.6 31.7 58.9#
148 74.4 44.3 82.3



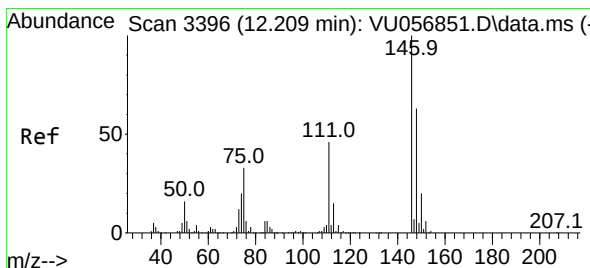
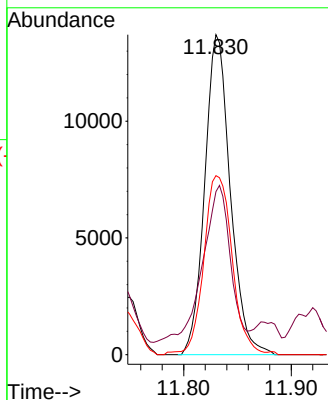
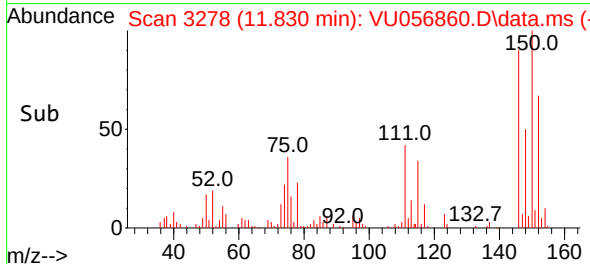


#65
1,4-Dichlorobenzene
Concen: 0.516 ug/L
RT: 11.830 min Scan# 31
Delta R.T. -0.003 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

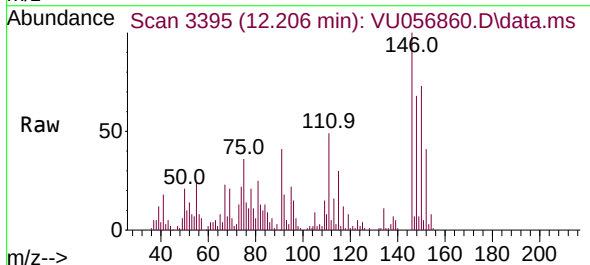
Instrument :
MSVOA_U
ClientSampleId :



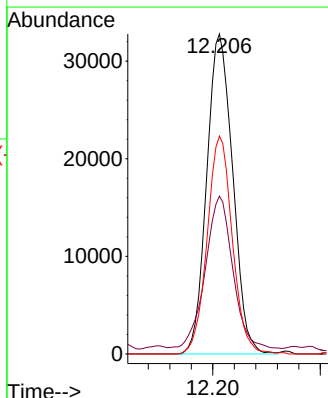
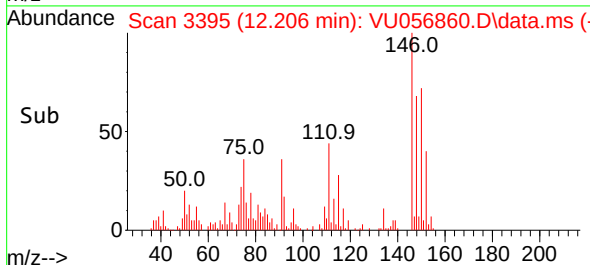
Tgt Ion:146 Resp: 22668
Ion Ratio Lower Upper
146 100
111 50.9 31.2 58.0
148 56.0 45.6 84.8

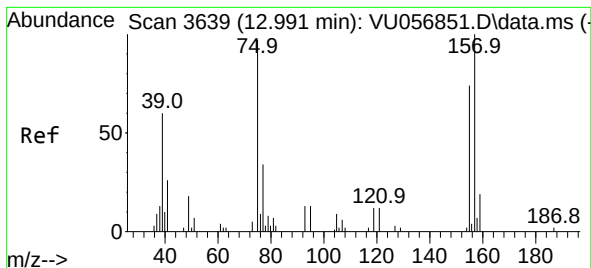


#67
1,2-Dichlorobenzene
Concen: 1.352 ug/L
RT: 12.206 min Scan# 3395
Delta R.T. -0.003 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26



Tgt Ion:146 Resp: 54915
Ion Ratio Lower Upper
146 100
111 49.4 36.9 55.3
148 68.1 53.0 79.4

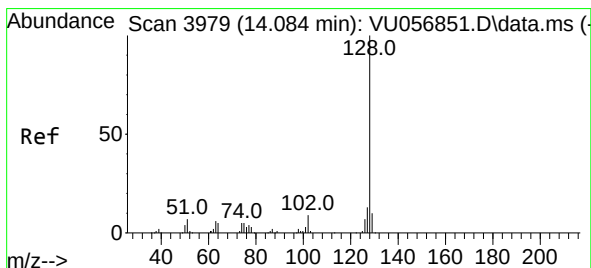
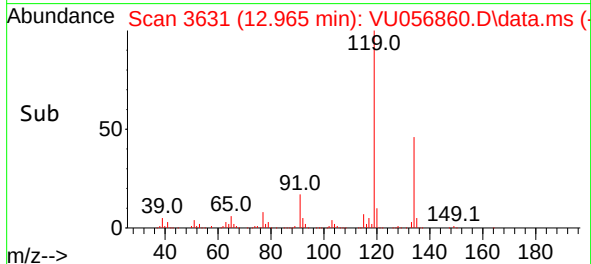
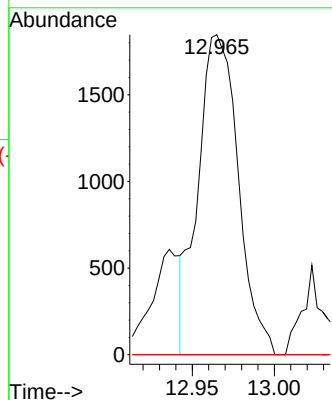
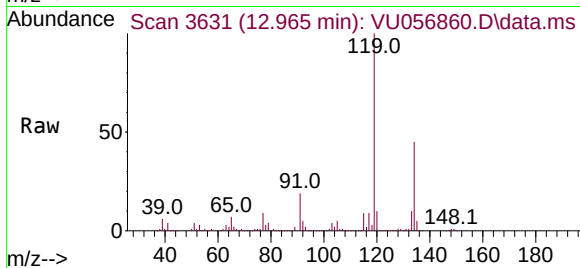




#68
1,2-Dibromo-3-chloropropane
Concen: 1.228 ug/L
RT: 12.965 min Scan# 3631
Delta R.T. -0.026 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 75 Resp: 3142
Ion Ratio Lower Upper
75 100
155 0.0 55.4 83.2#
157 0.0 77.3 115.9#



#71
Naphthalene
Concen: 0.591 ug/L
RT: 14.084 min Scan# 3979
Delta R.T. 0.000 min
Lab File: VU056860.D
Acq: 15 Dec 2023 01:26

Tgt Ion: 128 Resp: 23098
Ion Ratio Lower Upper
128 100
129 4.7 8.6 12.8#
127 13.9 10.2 15.2

