

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW120721\
 Data File : VW023820.D
 Acq On : 07 Dec 2021 14:07
 Operator : SY/MD
 Sample : M4879-11DL 25X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 08 01:15:29 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR112321WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Dec 02 02:08:23 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	128161	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	123654	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	68242	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	53966	5.129	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	102.600%
7) Chloroethane-d5	1.568	69	41045	4.963	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.200%
11) 1,1-Dichloroethene-d2	2.108	63	72695	3.921	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.400%
20) 2-Butanone-d5	3.908	46	56086	44.344	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	88.680%
24) Chloroform-d	4.349	84	95054	5.188	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.800%
26) 1,2-Dichloroethane-d4	5.034	65	45524	5.319	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.400%
32) Benzene-d6	5.050	84	188031	5.582	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	111.600%
36) 1,2-Dichloropropane-d6	6.069	67	52561	5.566	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	111.400%
41) Toluene-d8	7.316	98	173595	5.516	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.400%
43) trans-1,3-Dichloroprop...	7.622	79	21689	5.698	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	114.000%
46) 2-Hexanone-d5	8.091	63	87509	69.194	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	138.380%#
56) 1,1,2,2-Tetrachloroeth...	10.217	84	37435	5.509	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.200%
66) 1,2-Dichlorobenzene-d4	11.625	152	71074	5.891	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	117.800%
Target Compounds						
5) Vinyl chloride	1.310	62	1164	0.105	ug/L #	22
12) 1,1-Dichloroethene	2.104	96	682	0.079	ug/L #	1
15) Methyl Acetate	2.532	43	6194	2.398	ug/L #	51
22) cis-1,2-Dichloroethene	3.915	96	12676	1.351	ug/L	99
27) 1,2-Dichloroethane	5.047	62	1244	0.128	ug/L #	73
30) Cyclohexane	4.677	56	6736	0.500	ug/L	97
34) Trichloroethene	5.921	95	6425	0.680	ug/L	97
35) Methylcyclohexane	6.130	83	5795	0.394	ug/L	91
37) 1,2-Dichloropropane	6.069	63	6369	0.760	ug/L #	86
39) cis-1,3-Dichloropropene	6.992	75	1787	0.150	ug/L #	63
42) Toluene	7.394	91	16967	0.444	ug/L	91
45) 1,1,2-Trichloroethane	7.789	97	1818	0.313	ug/L #	25
47) Tetrachloroethene	7.979	164	4408	0.513	ug/L	91
49) Dibromochloromethane	7.976	129	3908	0.491	ug/L #	11
52) Ethylbenzene	9.011	91	181287	4.536	ug/L	100
53) m,p-xylene	9.140	106	104393	6.563	ug/L	99
54) o-xylene	9.545	106	21836	1.444	ug/L	100
55) Styrene	9.548	104	1562	0.061	ug/L #	1
60) Isopropylbenzene	9.934	105	17902	0.439	ug/L #	66

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 Response via : Initial Calibration

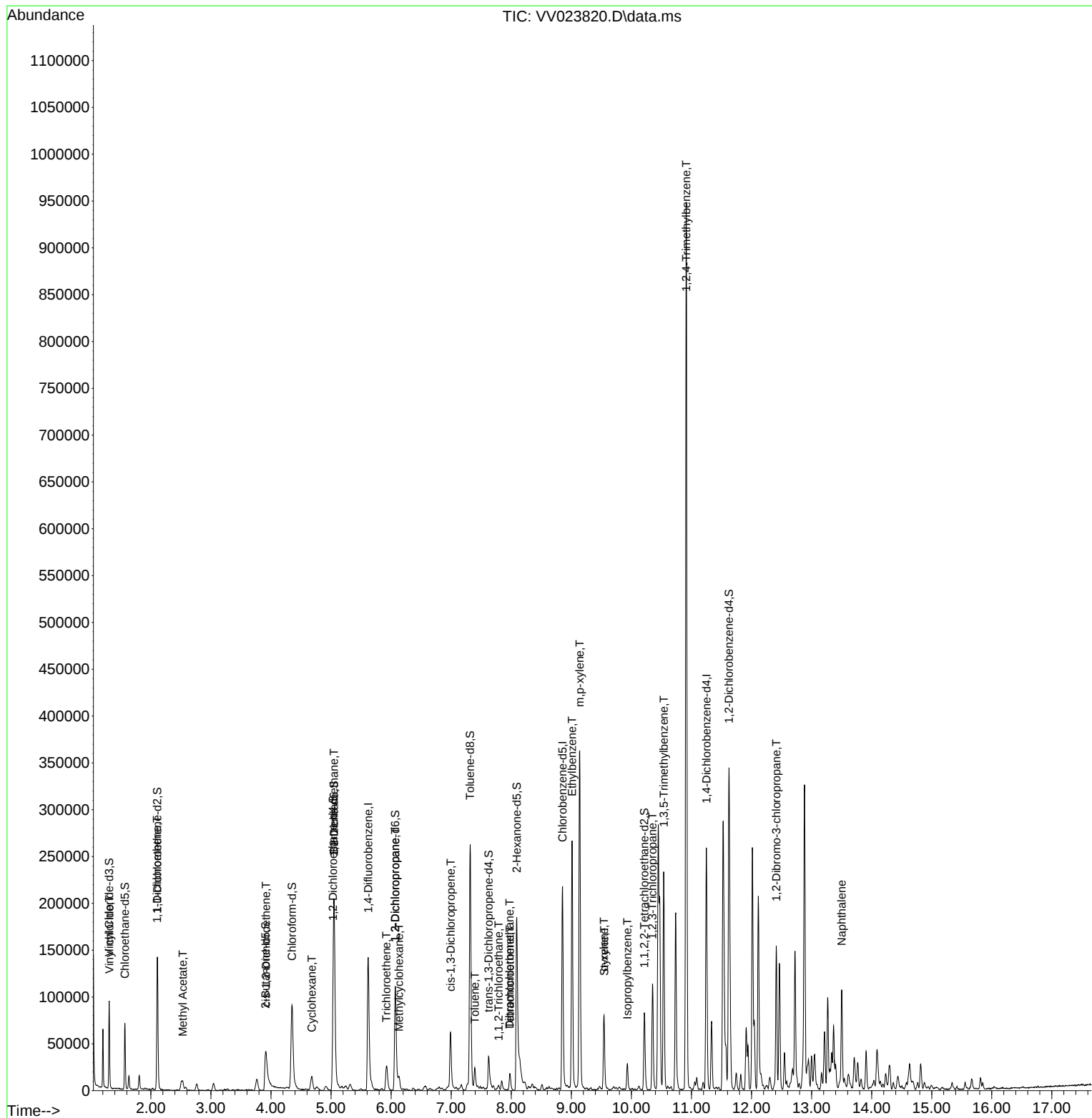
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) 1,2,3-Trichloropropane	10.352	75	527	0.109	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.538	105	120125	3.543	ug/L	99
63) 1,2,4-Trimethylbenzene	10.911	105	500122	14.916	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.413	75	497	0.517	ug/L #	1
71) Naphthalene	13.503	128	81384	4.792	ug/L	100

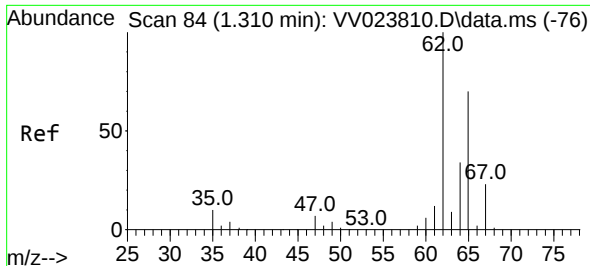
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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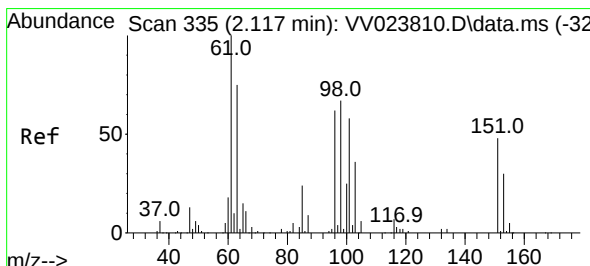
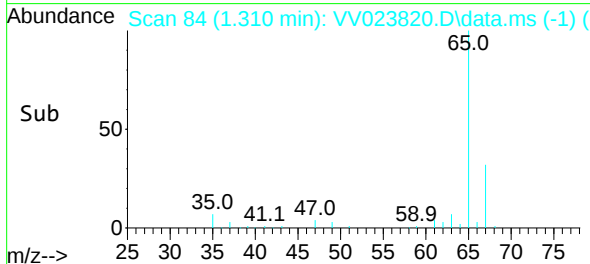
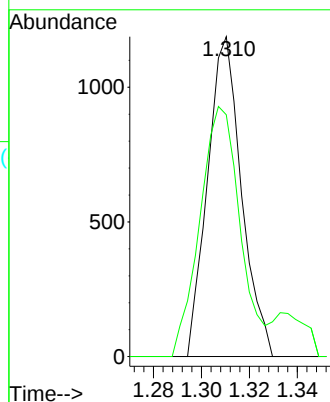
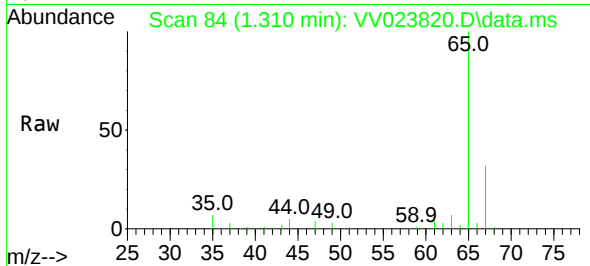




#5
 Vinyl chloride
 Concen: 0.105 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. -0.000 min
 Lab File: VV023820.D
 Acq: 07 Dec 2021 14:07

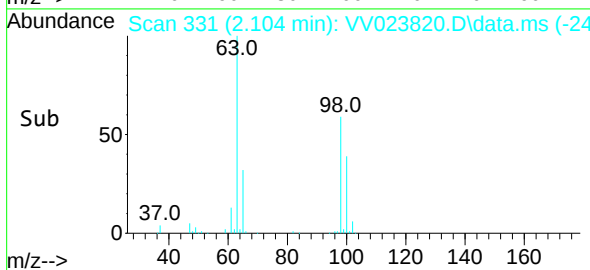
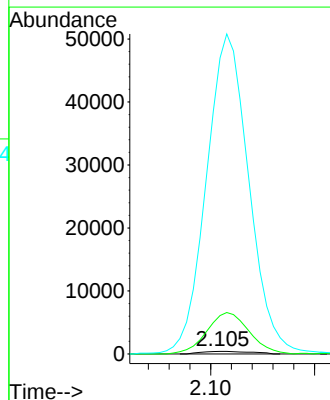
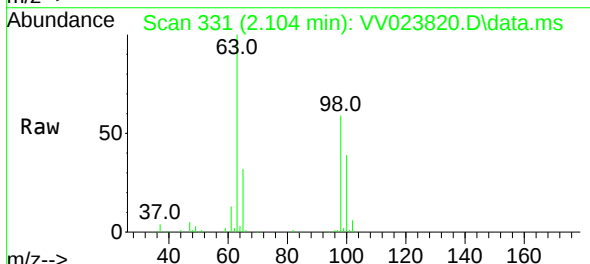
Instrument :
 MSVOA_V
 ClientSampleId :

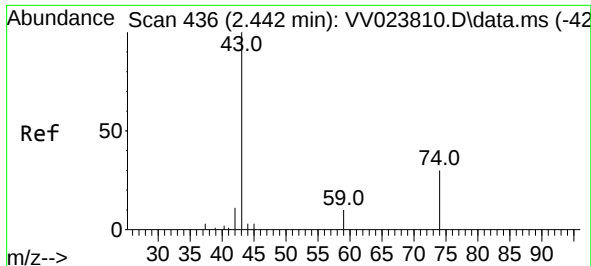
Tgt Ion: 62 Resp: 1164
 Ion Ratio Lower Upper
 62 100
 64 75.6 22.4 41.6#



#12
 1,1-Dichloroethene
 Concen: 0.079 ug/L
 RT: 2.104 min Scan# 331
 Delta R.T. -0.013 min
 Lab File: VV023820.D
 Acq: 07 Dec 2021 14:07

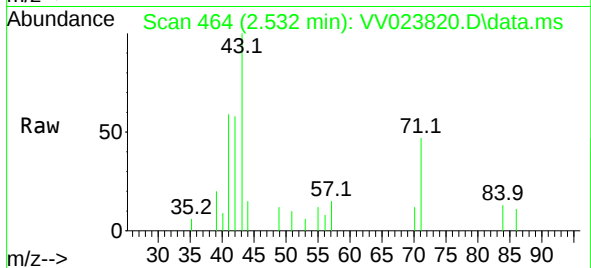
Tgt Ion: 96 Resp: 682
 Ion Ratio Lower Upper
 96 100
 61 1485.9 116.1 215.5#
 63 11435.5 79.4 147.4#



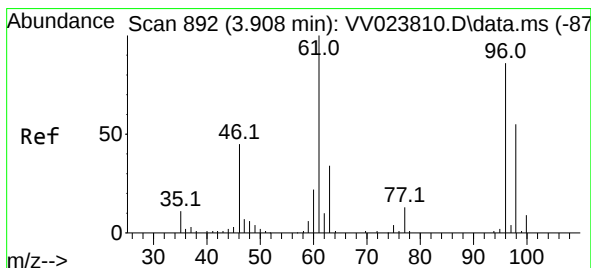
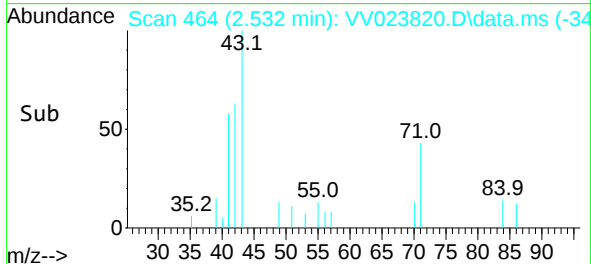
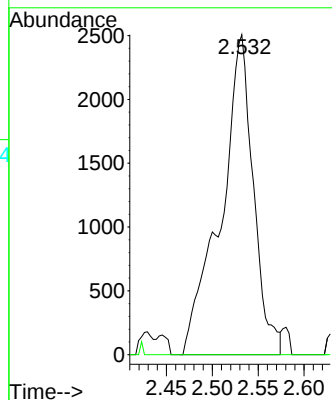


#15
Methyl Acetate
Concen: 2.398 ug/L
RT: 2.532 min Scan# 41
Delta R.T. 0.090 min
Lab File: VV023820.D
Acq: 07 Dec 2021 14:07

Instrument :
MSVOA_V
ClientSampleId :

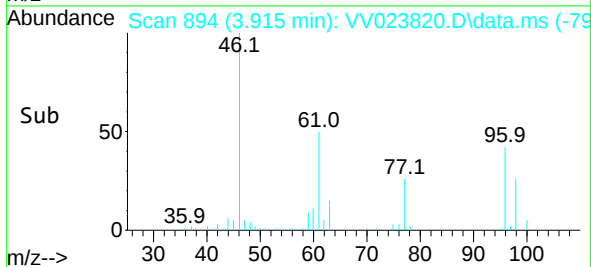
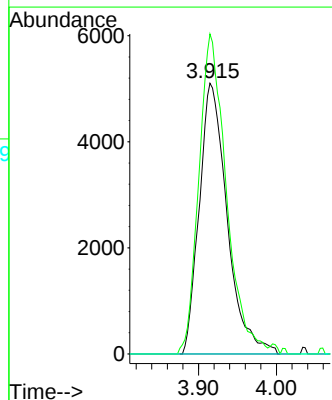
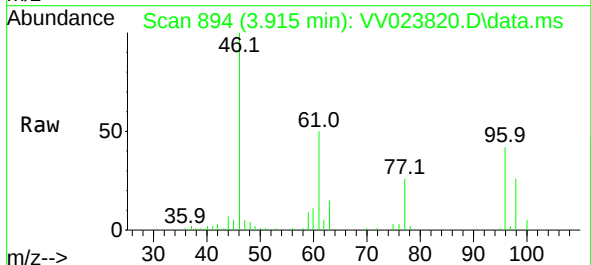


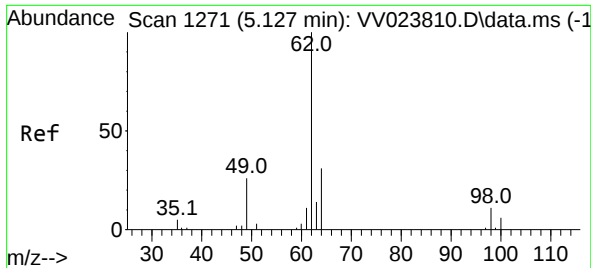
Tgt Ion: 43 Resp: 6194
Ion Ratio Lower Upper
43 100
74 0.3 20.2 30.2#



#22
cis-1,2-Dichloroethene
Concen: 1.351 ug/L
RT: 3.915 min Scan# 894
Delta R.T. 0.006 min
Lab File: VV023820.D
Acq: 07 Dec 2021 14:07

Tgt Ion: 96 Resp: 12676
Ion Ratio Lower Upper
96 100
61 118.2 83.4 154.8
68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 0.128 ug/L

RT: 5.047 min Scan# 11

Delta R.T. -0.080 min

Lab File: VV023820.D

Acq: 07 Dec 2021 14:07

Instrument :

MSVOA_V

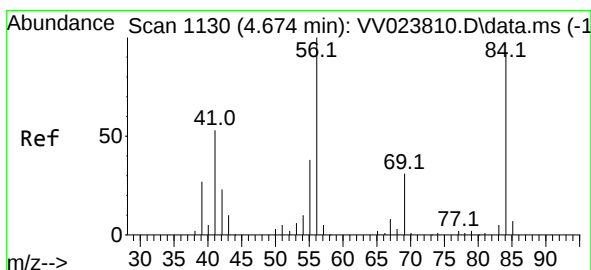
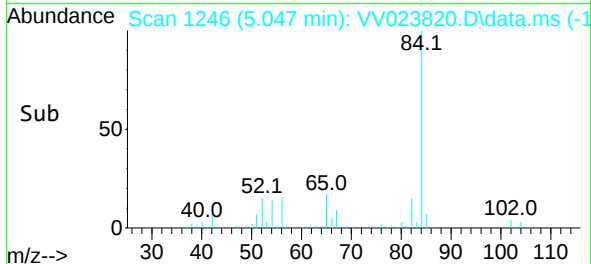
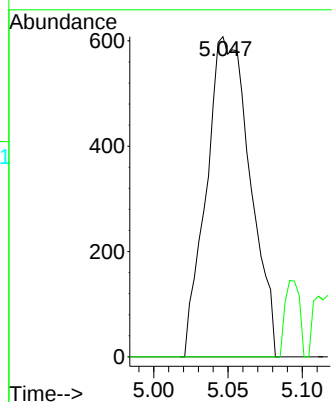
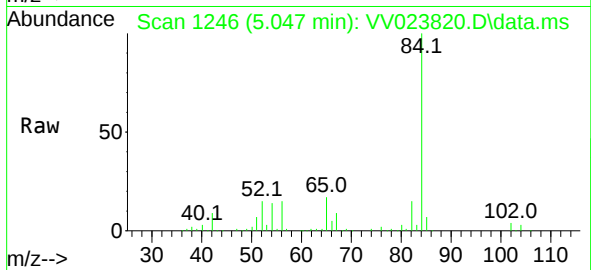
ClientSampleId :

Tgt Ion: 62 Resp: 1244

Ion Ratio Lower Upper

62 100

98 0.0 8.1 12.1#



#30

Cyclohexane

Concen: 0.500 ug/L

RT: 4.677 min Scan# 1131

Delta R.T. 0.003 min

Lab File: VV023820.D

Acq: 07 Dec 2021 14:07

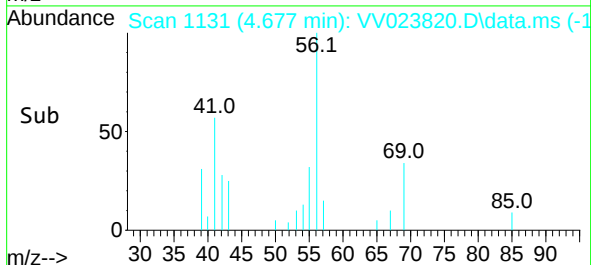
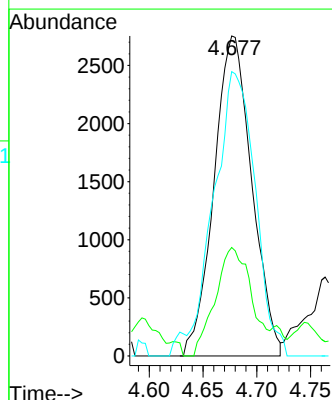
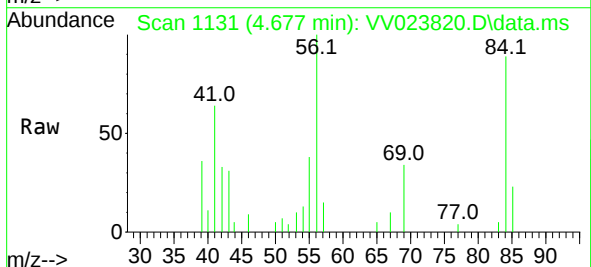
Tgt Ion: 56 Resp: 6736

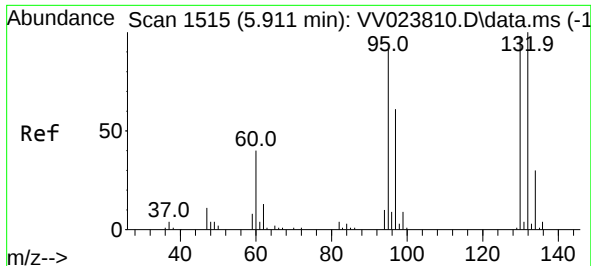
Ion Ratio Lower Upper

56 100

69 32.7 24.8 37.2

84 98.3 75.9 113.9

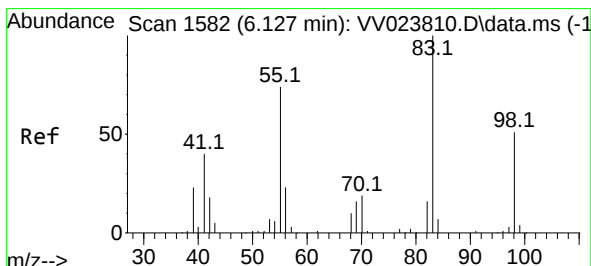
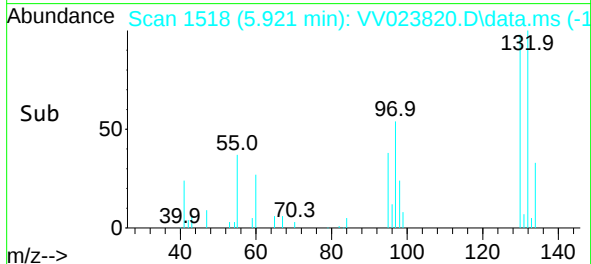
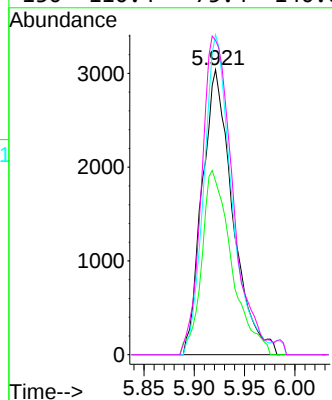
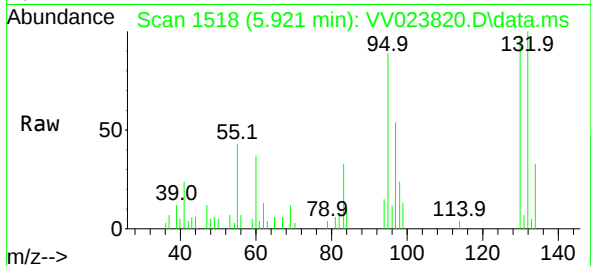




#34
Trichloroethene
Concen: 0.680 ug/L
RT: 5.921 min Scan# 1518
Delta R.T. 0.010 min
Lab File: VV023820.D
Acq: 07 Dec 2021 14:07

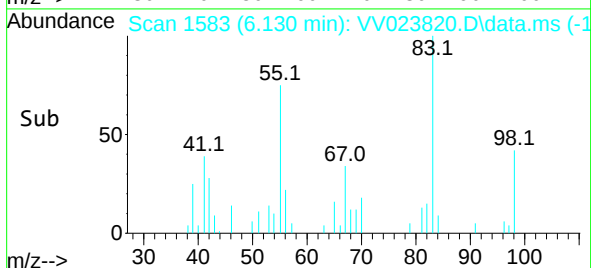
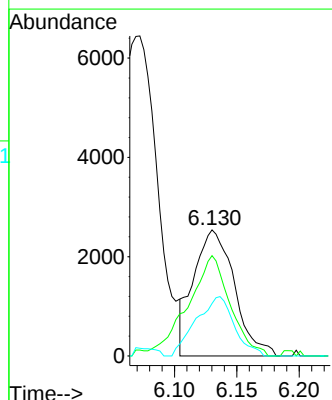
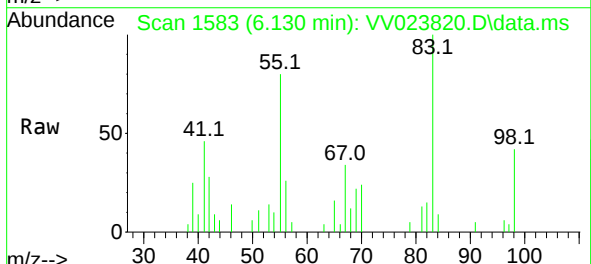
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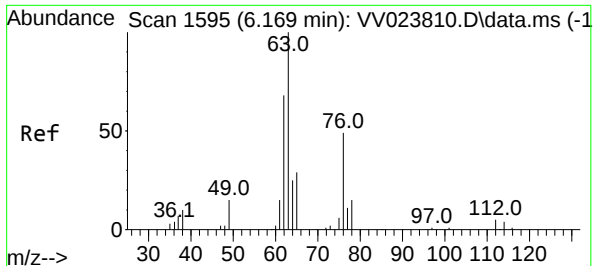
Tgt Ion: 95 Resp: 6425
Ion Ratio Lower Upper
95 100
97 60.9 45.2 84.0
132 112.3 76.1 141.3
130 110.4 75.4 140.0



#35
Methylcyclohexane
Concen: 0.394 ug/L
RT: 6.130 min Scan# 1583
Delta R.T. 0.003 min
Lab File: VV023820.D
Acq: 07 Dec 2021 14:07

Tgt Ion: 83 Resp: 5795
Ion Ratio Lower Upper
83 100
55 82.2 60.2 90.2
98 43.9 41.0 61.4

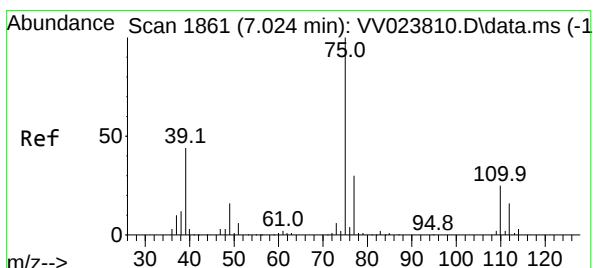
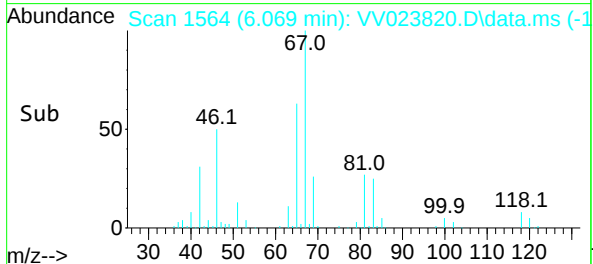
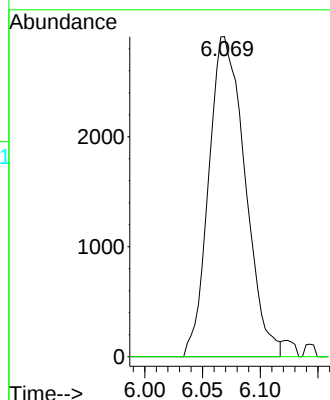
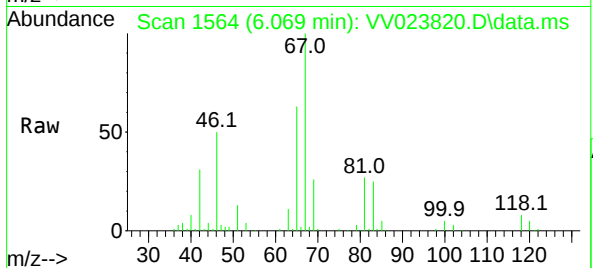




#37
1,2-Dichloropropane
Concen: 0.760 ug/L
RT: 6.069 min Scan# 11
Delta R.T. -0.100 min
Lab File: VV023820.D
Acq: 07 Dec 2021 14:07

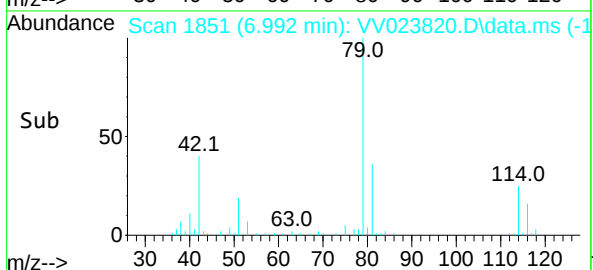
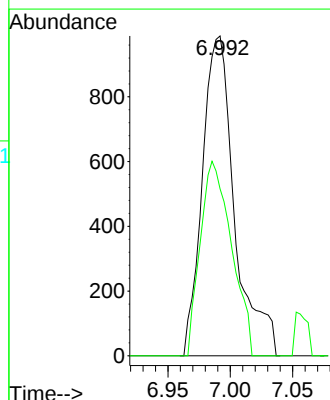
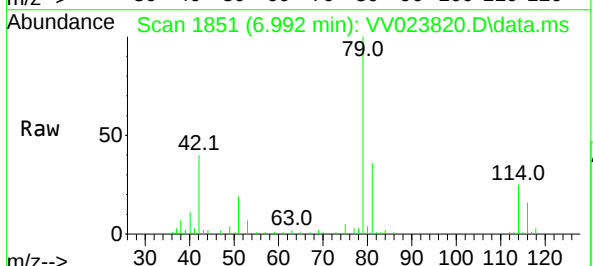
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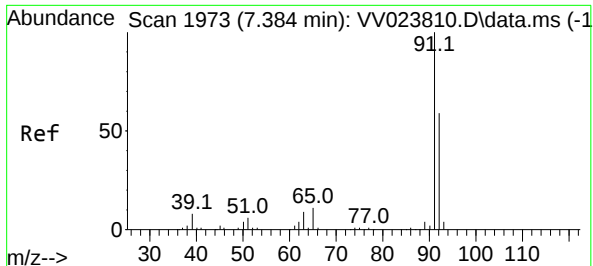
Tgt Ion: 63 Resp: 6369
Ion Ratio Lower Upper
63 100
112 0.6 4.3 6.5#



#39
cis-1,3-Dichloropropene
Concen: 0.150 ug/L
RT: 6.992 min Scan# 1851
Delta R.T. -0.032 min
Lab File: VV023820.D
Acq: 07 Dec 2021 14:07

Tgt Ion: 75 Resp: 1787
Ion Ratio Lower Upper
75 100
77 52.2 22.0 41.0#

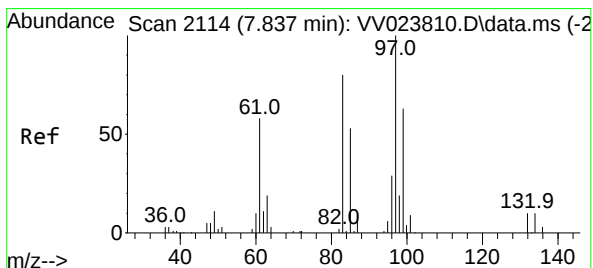
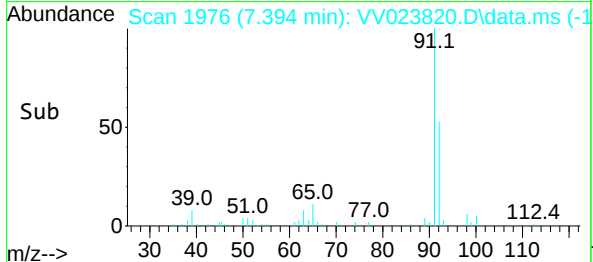
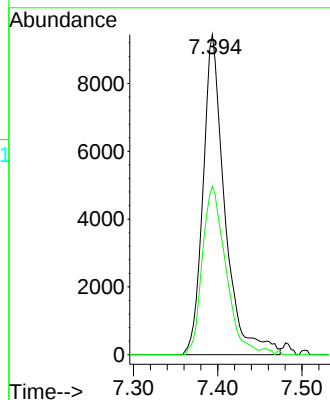
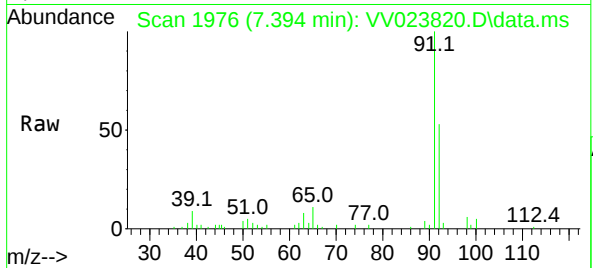




#42
Toluene
Concen: 0.444 ug/L
RT: 7.394 min Scan# 1973
Delta R.T. 0.010 min
Lab File: VV023820.D
Acq: 07 Dec 2021 14:07

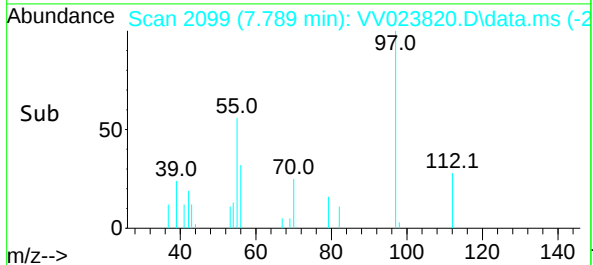
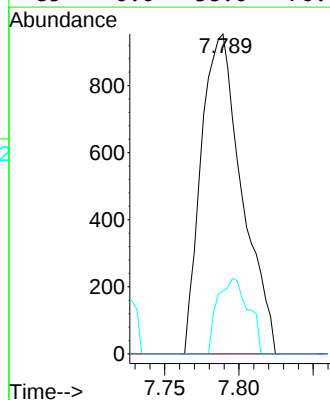
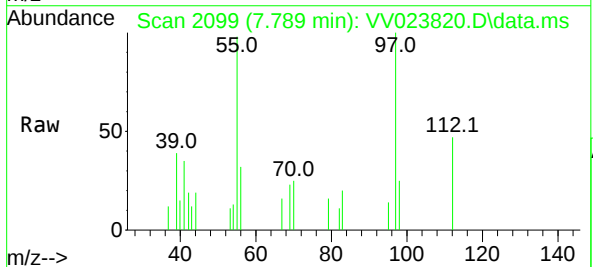
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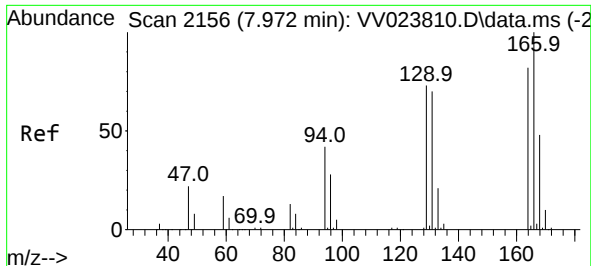
Tgt Ion: 91 Resp: 16967
Ion Ratio Lower Upper
91 100
92 52.6 41.5 77.1



#45
1,1,2-Trichloroethane
Concen: 0.313 ug/L
RT: 7.789 min Scan# 2099
Delta R.T. -0.048 min
Lab File: VV023820.D
Acq: 07 Dec 2021 14:07

Tgt Ion: 97 Resp: 1818
Ion Ratio Lower Upper
97 100
99 0.0 43.1 80.1#
83 19.7 57.9 107.5#
85 0.0 38.0 70.6#





#47

Tetrachloroethene

Concen: 0.513 ug/L

RT: 7.979 min Scan# 2156

Delta R.T. 0.006 min

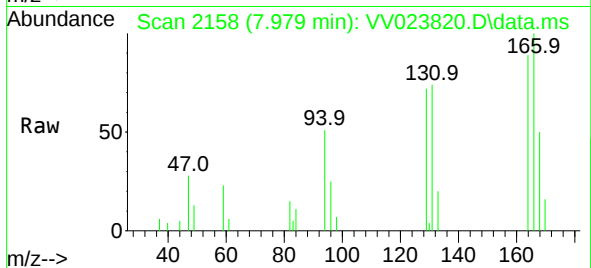
Lab File: VV023820.D

Acq: 07 Dec 2021 14:07

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 4408

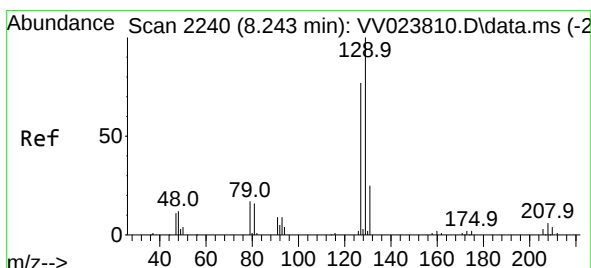
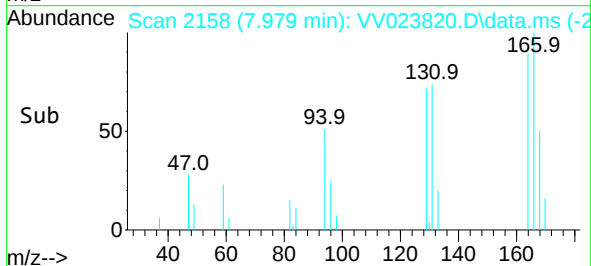
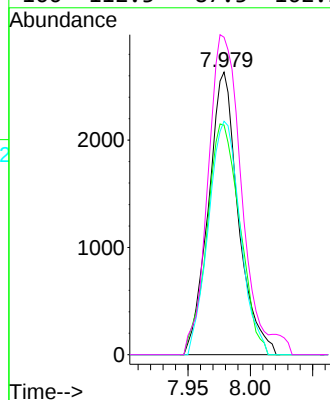
Ion Ratio Lower Upper

164 100

129 81.2 62.6 116.2

131 82.6 61.0 113.4

166 112.3 87.3 162.1



#49

Dibromochloromethane

Concen: 0.491 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. -0.267 min

Lab File: VV023820.D

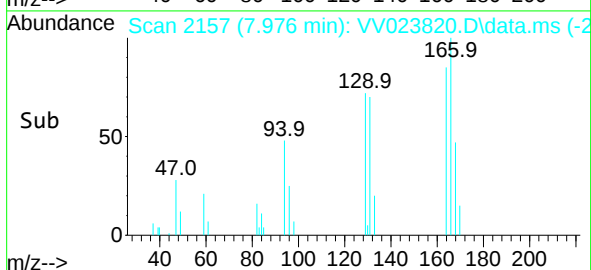
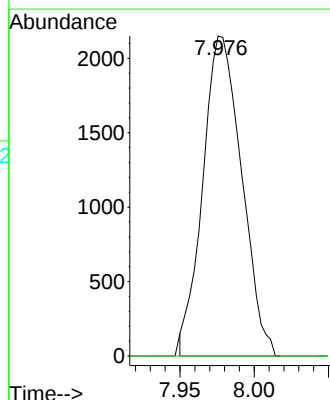
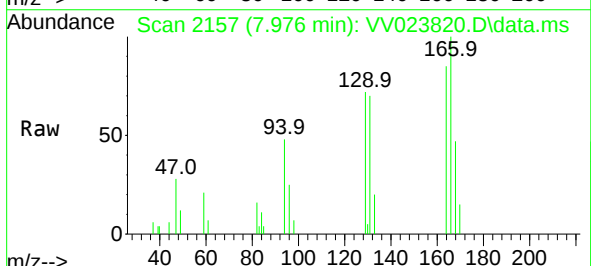
Acq: 07 Dec 2021 14:07

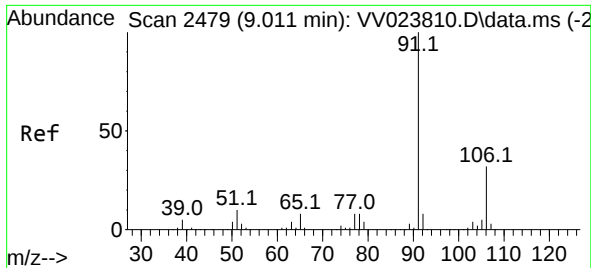
Tgt Ion:129 Resp: 3908

Ion Ratio Lower Upper

129 100

127 0.0 53.5 99.3#

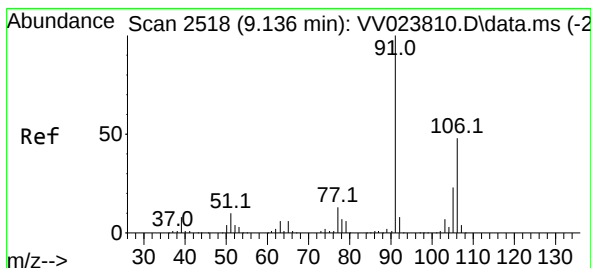
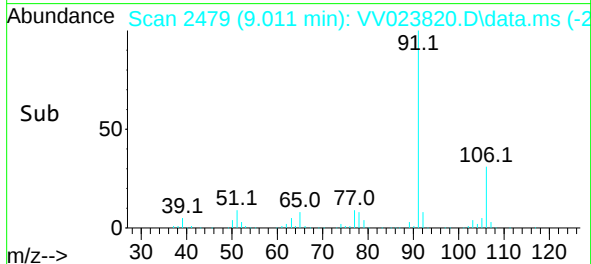
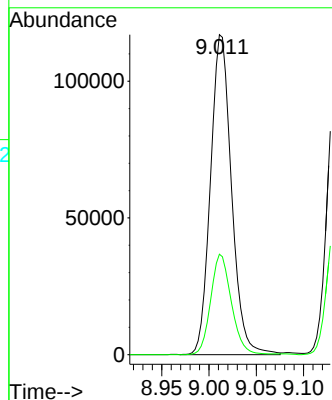
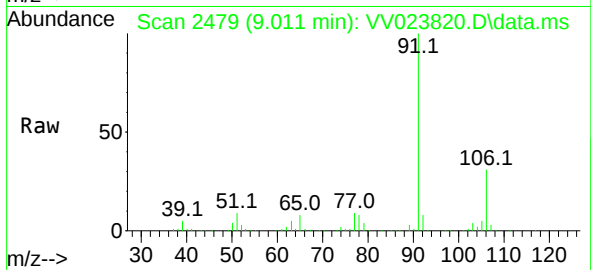




#52
Ethylbenzene
Concen: 4.536 ug/L
RT: 9.011 min Scan# 2479
Delta R.T. -0.000 min
Lab File: VV023820.D
Acq: 07 Dec 2021 14:07

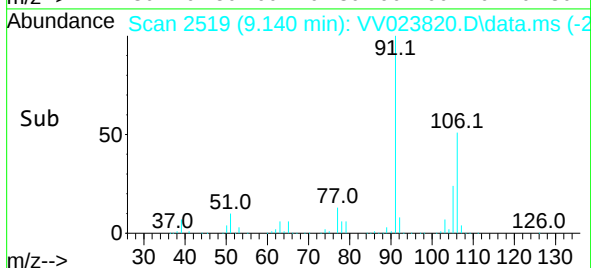
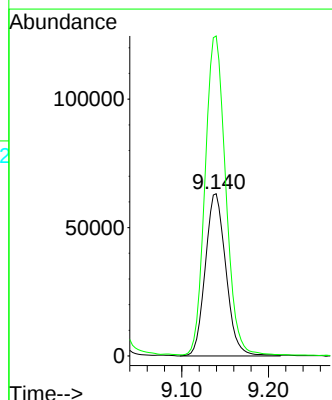
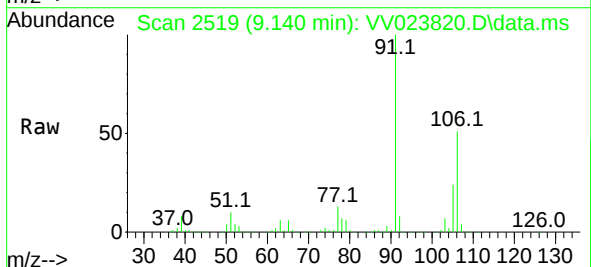
Instrument :
MSVOA_V
ClientSampleId :

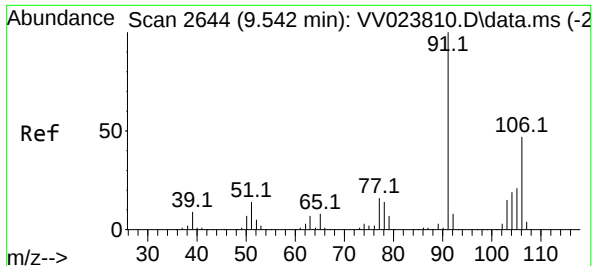
Tgt Ion: 91 Resp: 181287
Ion Ratio Lower Upper
91 100
106 31.4 22.0 41.0



#53
m,p-xylene
Concen: 6.563 ug/L
RT: 9.140 min Scan# 2519
Delta R.T. 0.003 min
Lab File: VV023820.D
Acq: 07 Dec 2021 14:07

Tgt Ion: 106 Resp: 104393
Ion Ratio Lower Upper
106 100
91 197.2 139.5 259.1

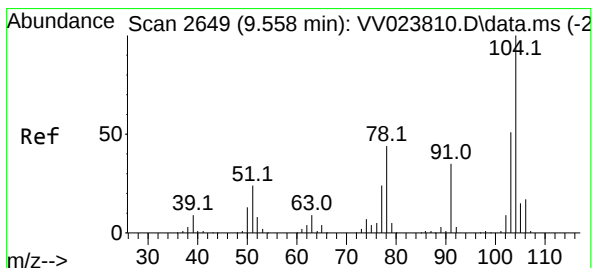
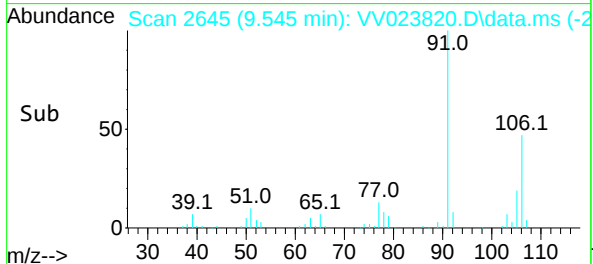
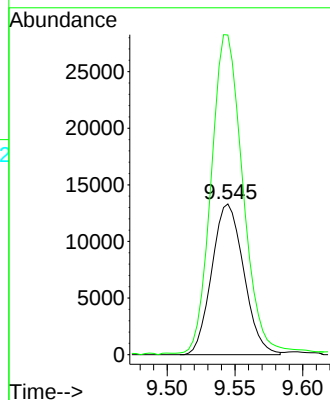
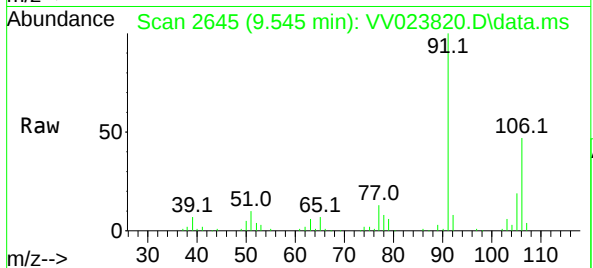




#54
o-xylene
Concen: 1.444 ug/L
RT: 9.545 min Scan# 2645
Delta R.T. 0.003 min
Lab File: VV023820.D
Acq: 07 Dec 2021 14:07

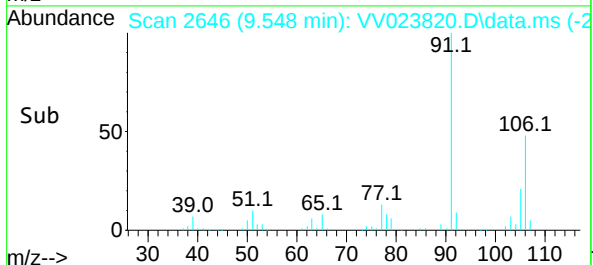
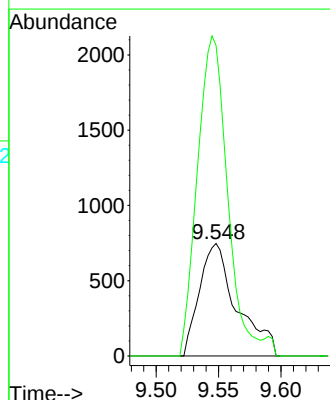
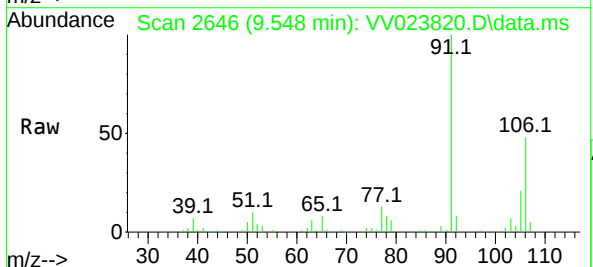
Instrument :
MSVOA_V
ClientSampleId :

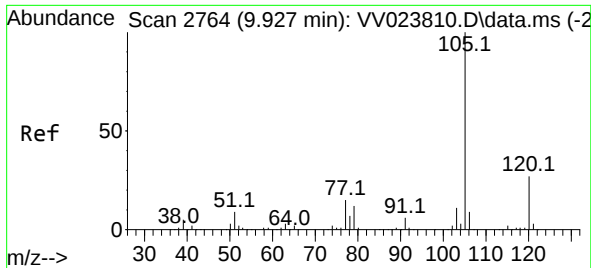
Tgt Ion:106 Resp: 21836
Ion Ratio Lower Upper
106 100
91 212.0 147.9 274.7



#55
Styrene
Concen: 0.061 ug/L
RT: 9.548 min Scan# 2646
Delta R.T. -0.010 min
Lab File: VV023820.D
Acq: 07 Dec 2021 14:07

Tgt Ion:104 Resp: 1562
Ion Ratio Lower Upper
104 100
78 276.2 31.0 57.6#

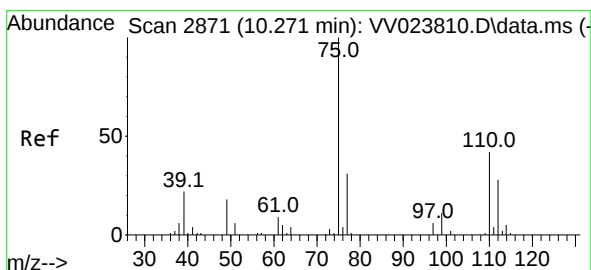
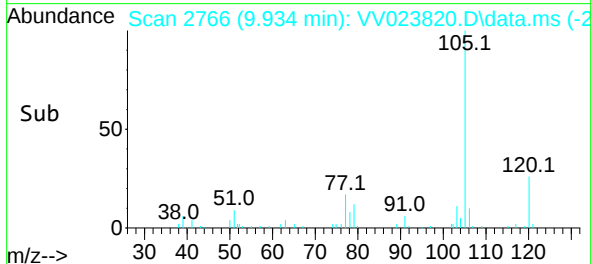
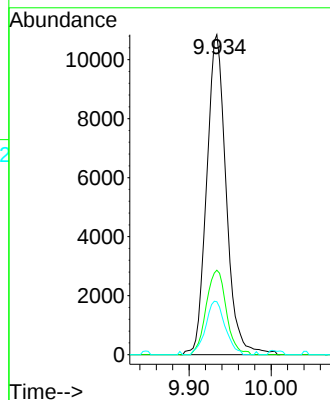
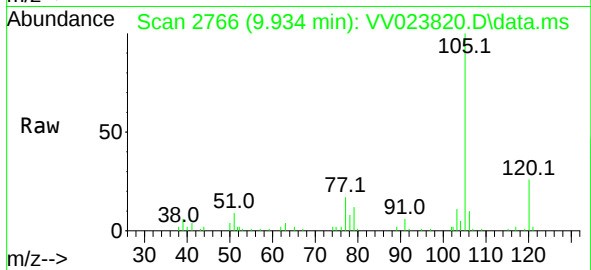




#60
Isopropylbenzene
Concen: 0.439 ug/L
RT: 9.934 min Scan# 2179
Delta R.T. 0.003 min
Lab File: VV023820.D
Acq: 07 Dec 2021 14:07

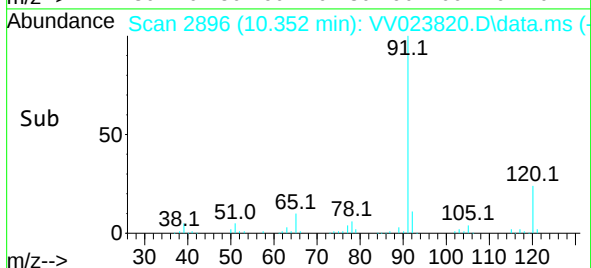
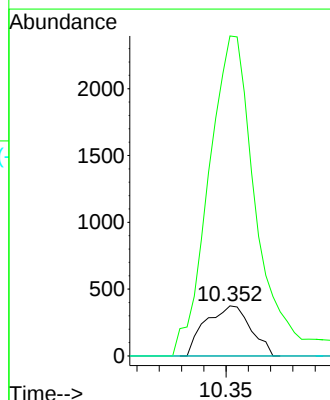
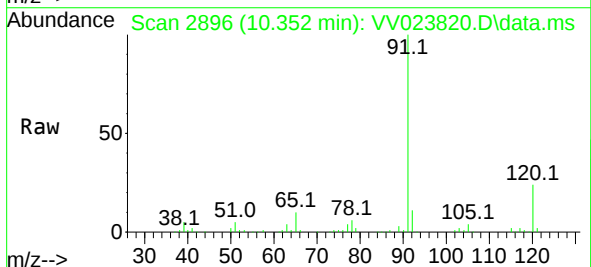
Instrument :
MSVOA_V
ClientSampleId :

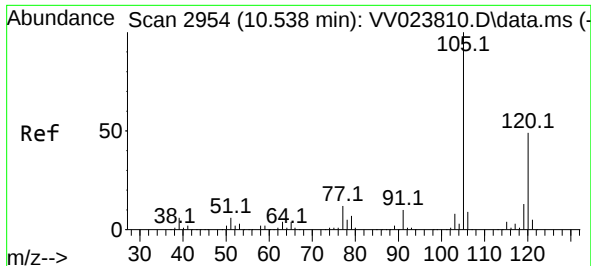
Tgt Ion:105 Resp: 17902
Ion Ratio Lower Upper
105 100
120 0.0 21.4 32.0#
77 16.8 12.2 18.4



#61
1,2,3-Trichloropropane
Concen: 0.109 ug/L
RT: 10.352 min Scan# 2896
Delta R.T. 0.080 min
Lab File: VV023820.D
Acq: 07 Dec 2021 14:07

Tgt Ion: 75 Resp: 527
Ion Ratio Lower Upper
75 100
77 675.3 26.4 39.6#
110 0.0 34.2 51.2#





#62

1,3,5-Trimethylbenzene

Concen: 3.543 ug/L

RT: 10.538 min Scan# 2954

Delta R.T. -0.000 min

Lab File: VV023820.D

Acq: 07 Dec 2021 14:07

Instrument :

MSVOA_V

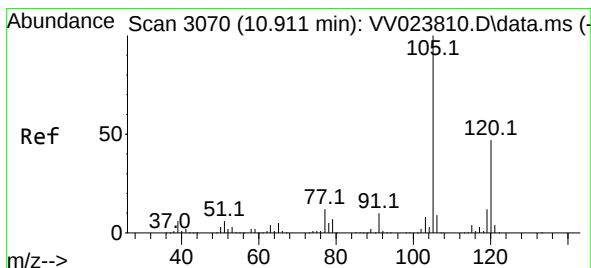
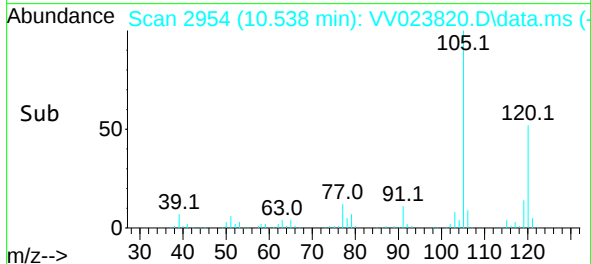
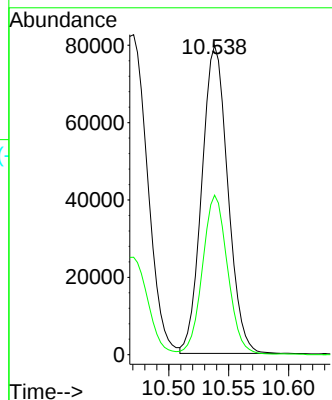
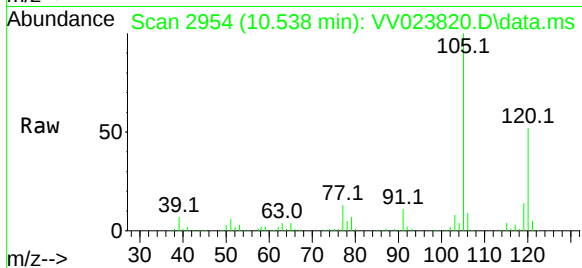
ClientSampleId :

Tgt Ion:105 Resp: 120125

Ion Ratio Lower Upper

105 100

120 49.7 40.1 60.1



#63

1,2,4-Trimethylbenzene

Concen: 14.916 ug/L

RT: 10.911 min Scan# 3070

Delta R.T. -0.000 min

Lab File: VV023820.D

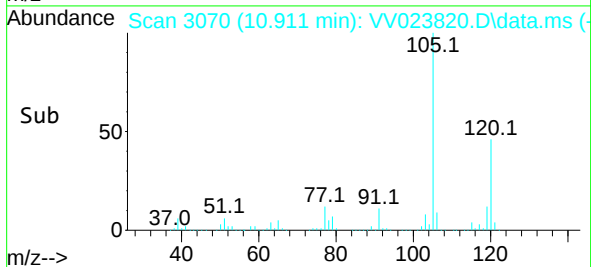
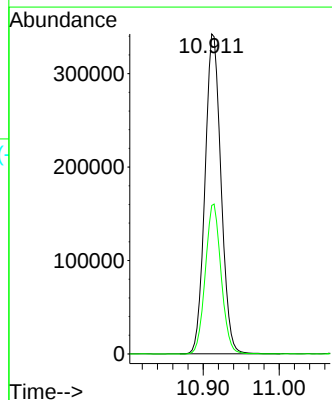
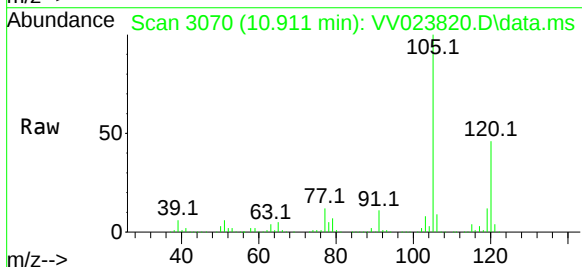
Acq: 07 Dec 2021 14:07

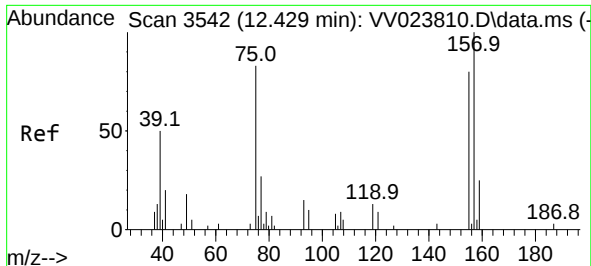
Tgt Ion:105 Resp: 500122

Ion Ratio Lower Upper

105 100

120 46.3 36.7 55.1





#68

1,2-Dibromo-3-chloropropane

Concen: 0.517 ug/L

RT: 12.413 min Scan# 3537

Delta R.T. -0.013 min

Lab File: VV023820.D

Acq: 07 Dec 2021 14:07

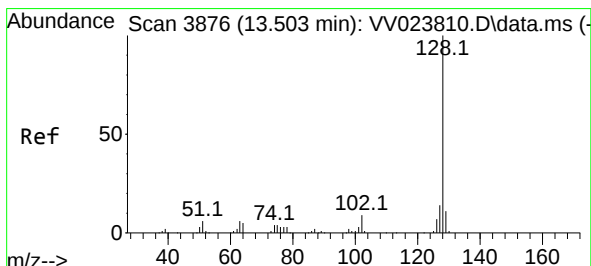
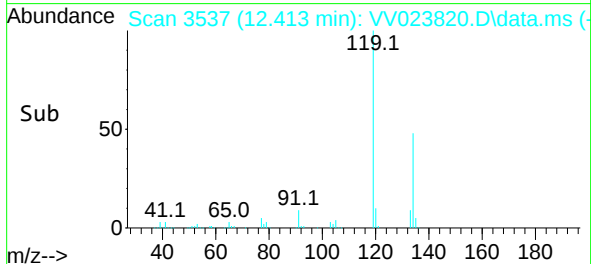
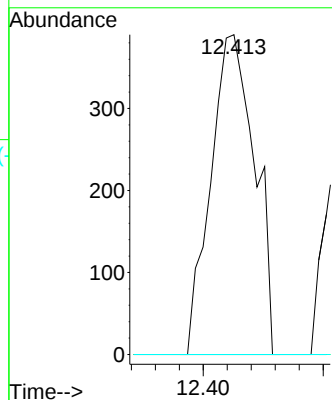
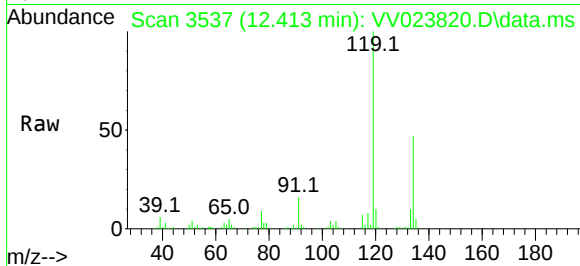
Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 75 Resp: 497

Ion	Ratio	Lower	Upper
75	100		
155	0.0	71.7	107.5#
157	0.0	103.3	154.9#



#71

Naphthalene

Concen: 4.792 ug/L

RT: 13.503 min Scan# 3876

Delta R.T. -0.000 min

Lab File: VV023820.D

Acq: 07 Dec 2021 14:07

Tgt Ion: 128 Resp: 81384

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.0	13.4
127	12.8	10.2	15.4

