

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW120721\
 Data File : VW023824.D
 Acq On : 07 Dec 2021 15:42
 Operator : SY/MD
 Sample : M4879-05
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 08 01:16:04 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	170634	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	158969	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	88123	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	35304	2.520	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	50.400%
7) Chloroethane-d5	1.568	69	31665	2.876	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	57.600%#
11) 1,1-Dichloroethene-d2	2.108	63	53246	2.157	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	43.200%#
20) 2-Butanone-d5	3.896	46	87672	52.064	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.120%
24) Chloroform-d	4.349	84	94955	3.893	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	77.800%
26) 1,2-Dichloroethane-d4	5.037	65	39996	3.510	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	70.200%
32) Benzene-d6	5.053	84	163989	3.787	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	75.800%
36) 1,2-Dichloropropane-d6	6.072	67	46384	3.821	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	76.400%
41) Toluene-d8	7.317	98	155824	3.851	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.000%
43) trans-1,3-Dichloroprop...	7.625	79	17381	3.552	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	71.000%
46) 2-Hexanone-d5	8.088	63	81248	49.972	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.940%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	33458	3.830	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	76.600%
66) 1,2-Dichlorobenzene-d4	11.625	152	62877	4.036	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	80.800%
Target Compounds						
					Qvalue	
8) Chloroethane	1.491	64	22379	2.389	ug/L #	53
12) 1,1-Dichloroethene	2.121	96	944	0.083	ug/L #	1
13) Acetone	2.134	43	54311	35.843	ug/L	68
14) Carbon disulfide	2.298	76	4646	0.121	ug/L	97
15) Methyl Acetate	2.436	43	56622	16.463	ug/L #	50
21) 2-Butanone	3.886	43	3112	1.623	ug/L #	51
22) cis-1,2-Dichloroethene	3.912	96	255602	20.468	ug/L	99
25) Chloroform	4.410	83	194896	7.990	ug/L #	22
30) Cyclohexane	4.680	56	616053	35.536	ug/L	100
34) Trichloroethene	5.915	95	90768	7.477	ug/L	97
35) Methylcyclohexane	6.130	83	210188	11.105	ug/L	96
37) 1,2-Dichloropropane	6.130	63	3190	0.296	ug/L #	94
38) Bromodichloromethane	6.564	83	30226	2.067	ug/L #	28
39) cis-1,3-Dichloropropene	6.989	75	1468	0.096	ug/L #	1
42) Toluene	7.387	91	383550	7.804	ug/L	98
45) 1,1,2-Trichloroethane	7.789	97	12322	1.652	ug/L #	22
47) Tetrachloroethene	7.979	164	2341195	211.867	ug/L	97
48) 2-Hexanone	8.156	43	6082	1.600	ug/L #	47
49) Dibromochloromethane	7.979	129	2135242	208.887	ug/L #	11

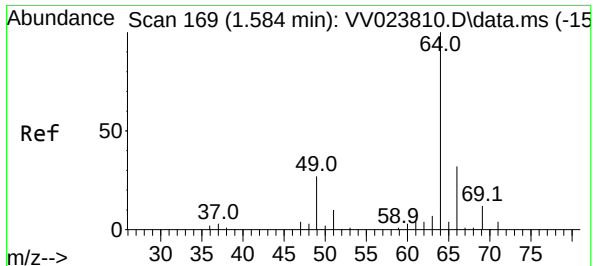
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV120721\
 Data File : VV023824.D
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-Dibromoethane	8.391	107	439	0.060	ug/L #	1
52) Ethylbenzene	9.011	91	1921442	37.399	ug/L	100
53) m,p-xylene	9.140	106	1147000	56.095	ug/L	98
54) o-xylene	9.542	106	251007	12.908	ug/L	98
55) Styrene	9.542	104	15465	0.472	ug/L #	1
60) Isopropylbenzene	9.931	105	151639	2.882	ug/L	99
61) 1,2,3-Trichloropropane	10.352	75	3910	0.626	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.538	105	327335	7.476	ug/L	100
63) 1,2,4-Trimethylbenzene	10.915	105	2808753	64.869	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.413	75	2031	1.636	ug/L #	1
71) Naphthalene	13.500	128	629748	28.713	ug/L	100

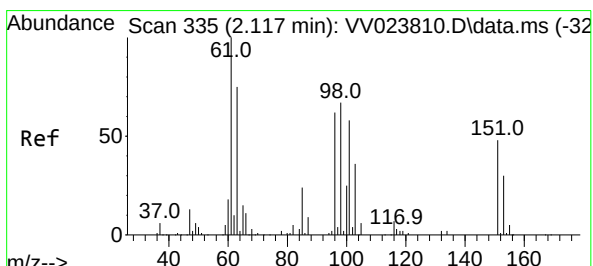
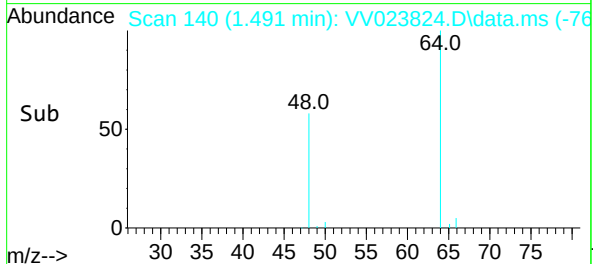
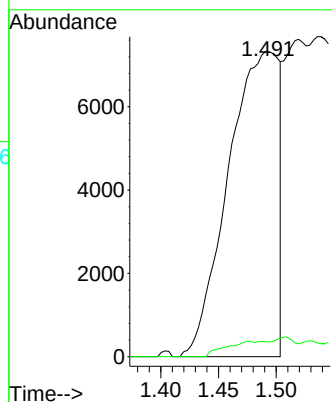
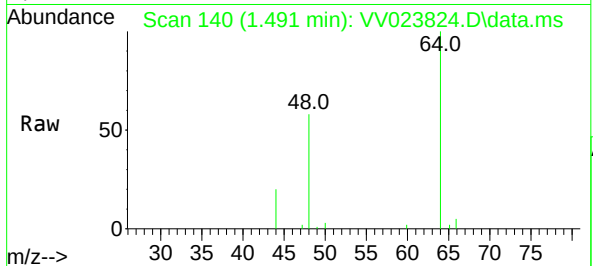
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#8
Chloroethane
Concen: 2.389 ug/L
RT: 1.491 min Scan# 14
Delta R.T. -0.093 min
Lab File: VV023824.D
Acq: 07 Dec 2021 15:42

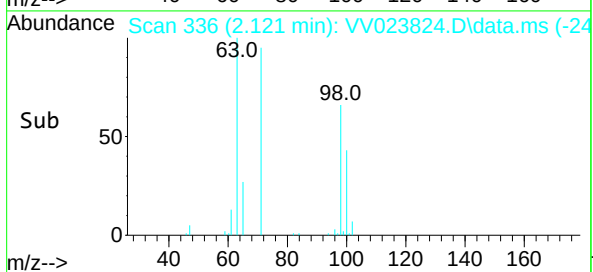
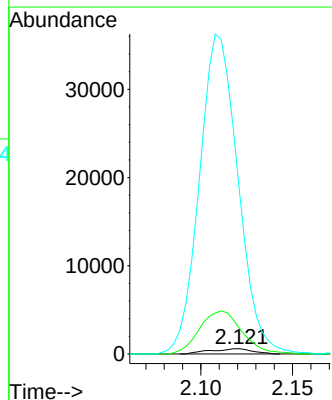
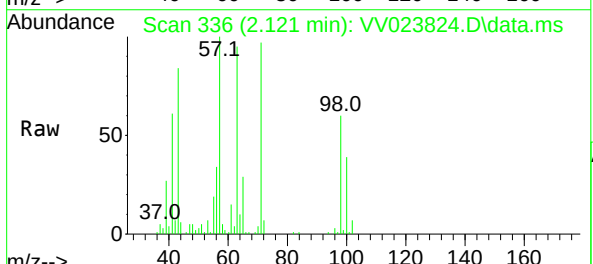
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MSVOA_V
ClientSampleId :

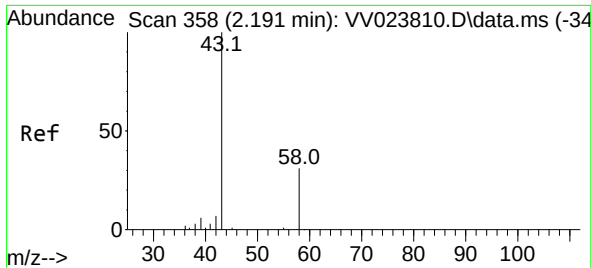
Tgt Ion: 64 Resp: 22379
Ion Ratio Lower Upper
64 100
66 5.0 21.4 39.8#



#12
1,1-Dichloroethene
Concen: 0.083 ug/L
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV023824.D
Acq: 07 Dec 2021 15:42

Tgt Ion: 96 Resp: 944
Ion Ratio Lower Upper
96 100
61 503.9 116.1 215.5#
63 3213.5 79.4 147.4#





#13

Acetone

Concen: 35.843 ug/L

RT: 2.134 min Scan# 34

Delta R.T. -0.090 min

Lab File: VV023824.D

Acq: 07 Dec 2021 15:42

Instrument :

MSVOA_V

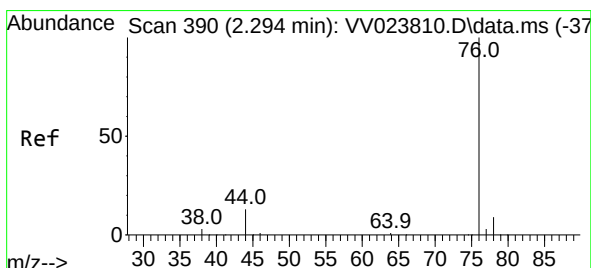
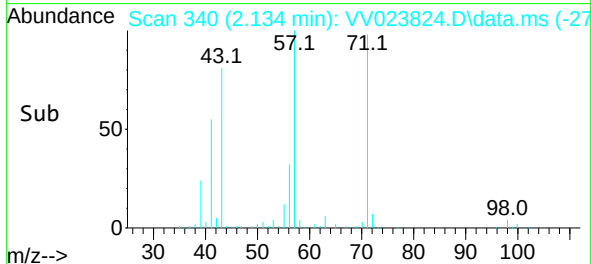
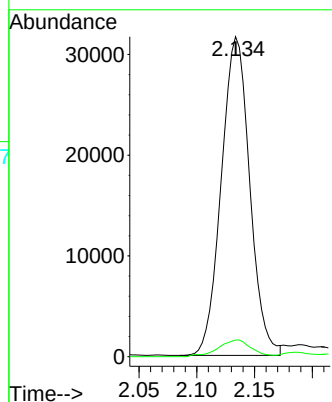
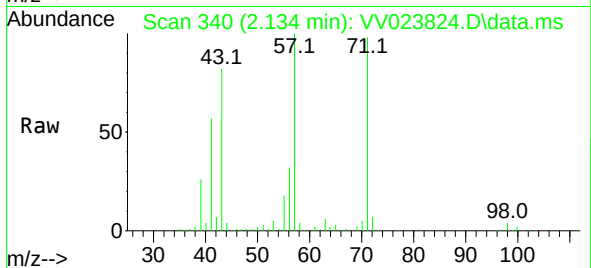
ClientSampleId :

Tgt Ion: 43 Resp: 54311

Ion Ratio Lower Upper

43 100

58 6.0 0.0 41.4



#14

Carbon disulfide

Concen: 0.121 ug/L

RT: 2.298 min Scan# 391

Delta R.T. 0.003 min

Lab File: VV023824.D

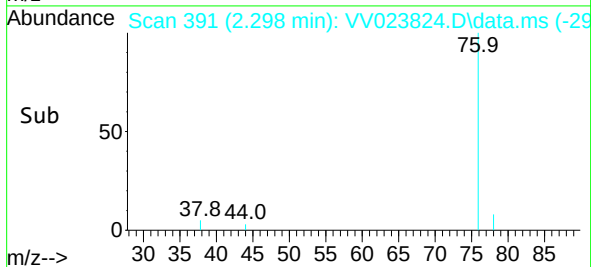
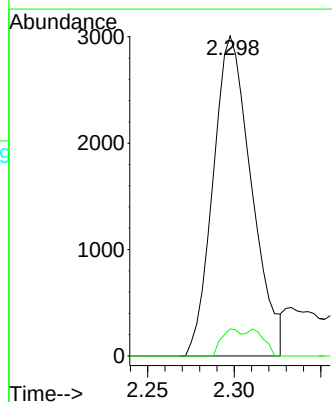
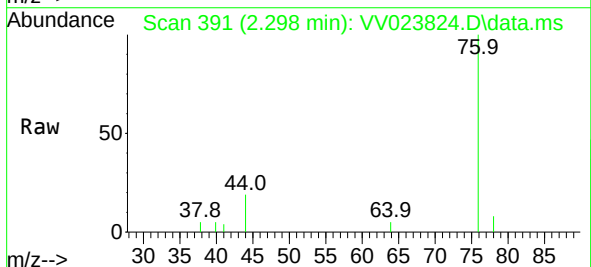
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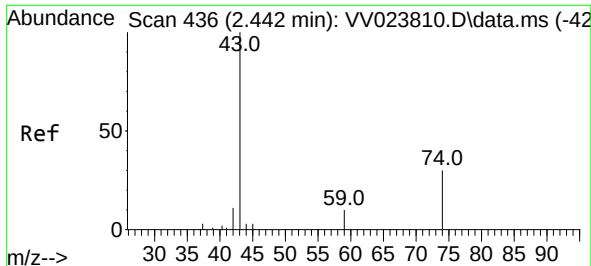
Tgt Ion: 76 Resp: 4646

Ion Ratio Lower Upper

76 100

78 8.4 7.5 11.3

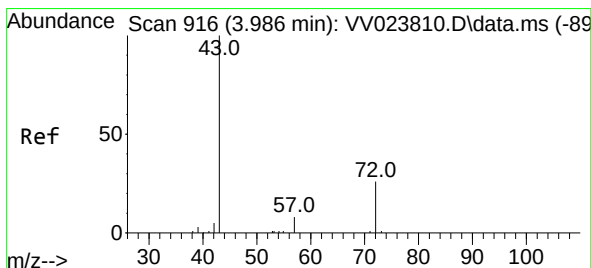
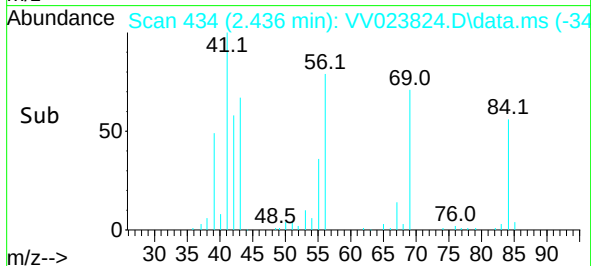
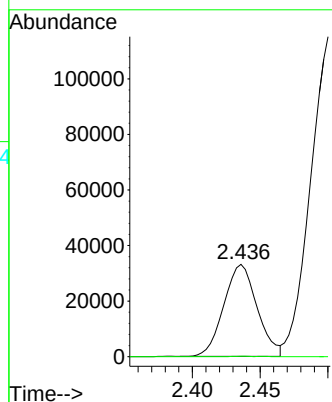
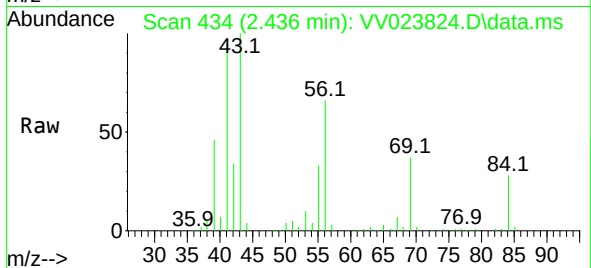




#15
Methyl Acetate
Concen: 16.463 ug/L
RT: 2.436 min Scan# 41
Delta R.T. -0.006 min
Lab File: VV023824.D
Acq: 07 Dec 2021 15:42

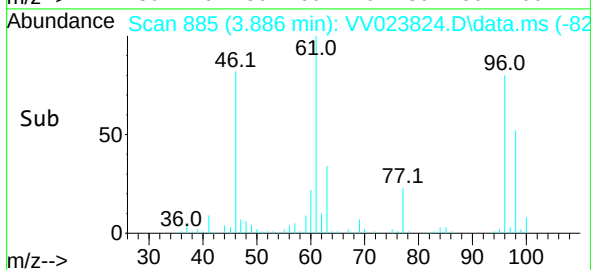
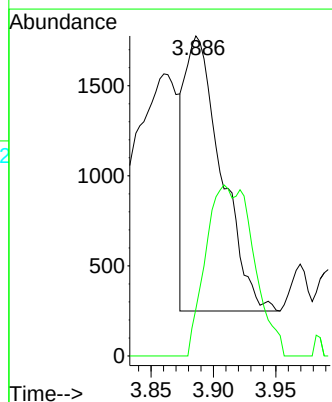
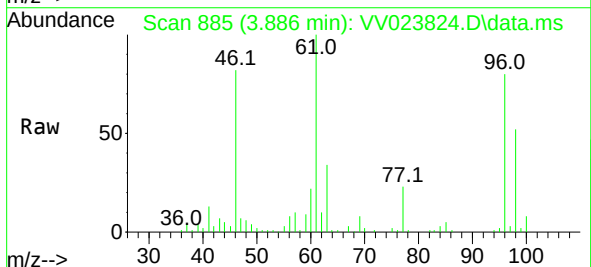
Instrument :
MSVOA_V
ClientSampleId :

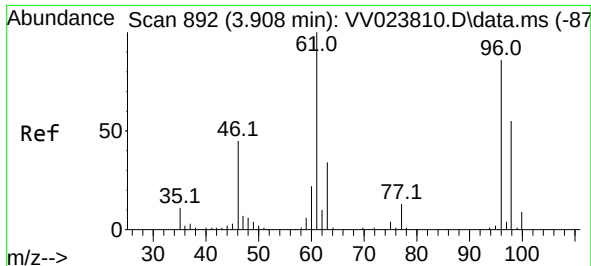
Tgt Ion: 43 Resp: 56622
Ion Ratio Lower Upper
43 100
74 0.2 20.2 30.2#



#21
2-Butanone
Concen: 1.623 ug/L
RT: 3.886 min Scan# 885
Delta R.T. -0.116 min
Lab File: VV023824.D
Acq: 07 Dec 2021 15:42

Tgt Ion: 43 Resp: 3112
Ion Ratio Lower Upper
43 100
72 45.4 11.1 33.1#





#22

cis-1,2-Dichloroethene

Concen: 20.468 ug/L

RT: 3.912 min Scan# 89

Delta R.T. 0.003 min

Lab File: VV023824.D

Acq: 07 Dec 2021 15:42

Instrument :

MSVOA_V

ClientSampleId :

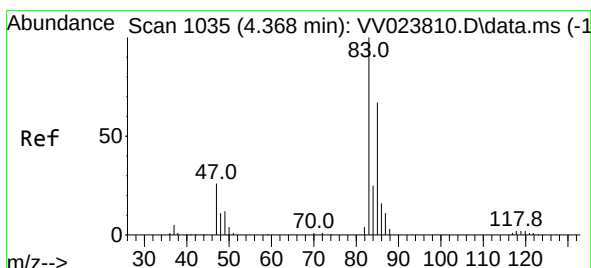
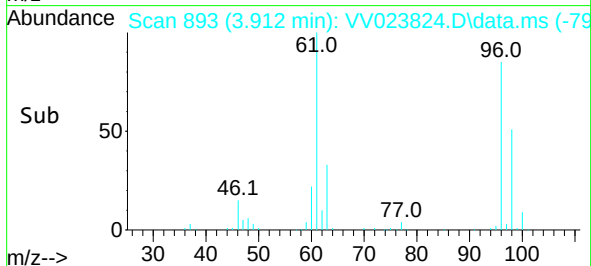
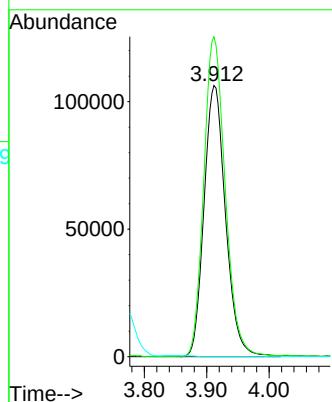
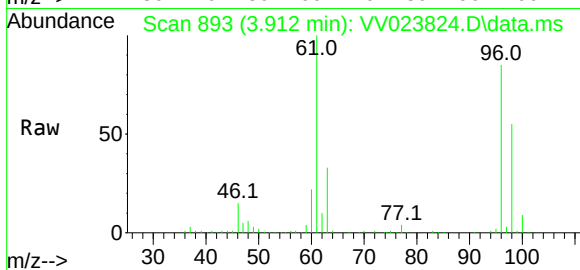
Tgt Ion: 96 Resp: 255602

Ion Ratio Lower Upper

96 100

61 118.0 83.4 154.8

68 0.0 0.0 0.0



#25

Chloroform

Concen: 7.990 ug/L

RT: 4.410 min Scan# 1048

Delta R.T. 0.039 min

Lab File: VV023824.D

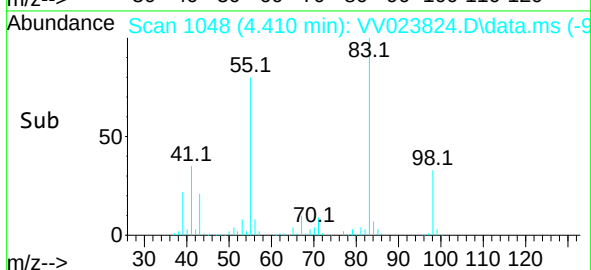
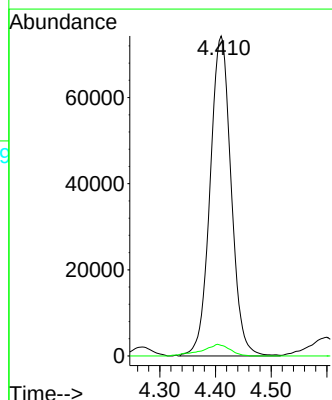
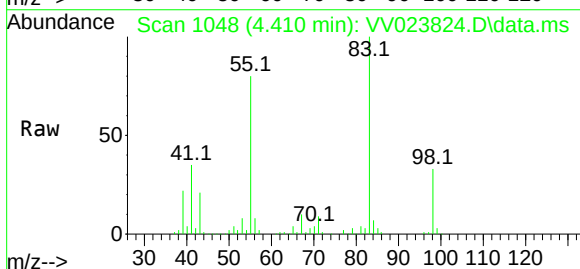
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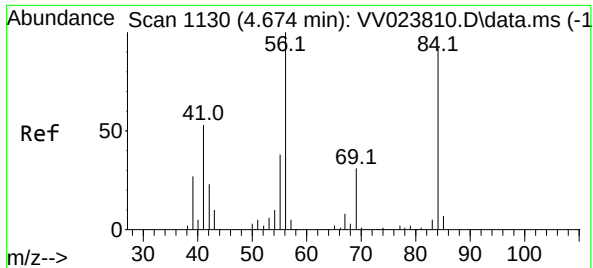
Tgt Ion: 83 Resp: 194896

Ion Ratio Lower Upper

83 100

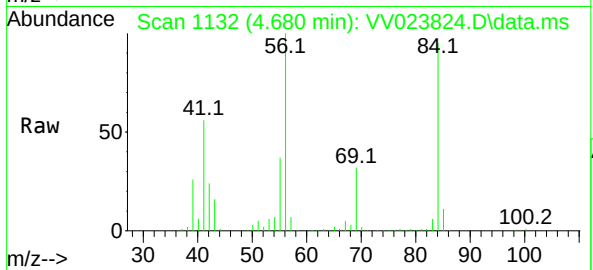
85 3.3 45.2 84.0#



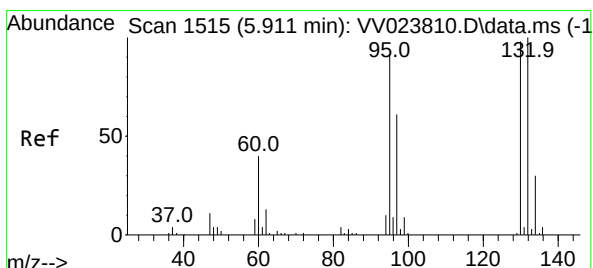
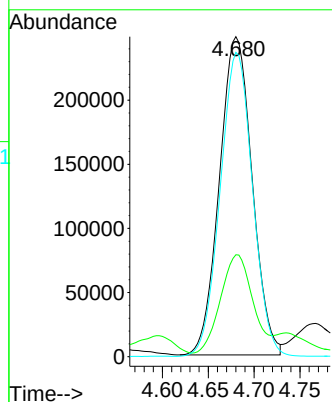
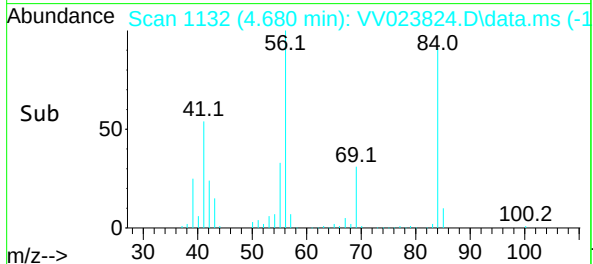


#30
Cyclohexane
Concen: 35.536 ug/L
RT: 4.680 min Scan# 1130
Delta R.T. 0.007 min
Lab File: VV023824.D
Acq: 07 Dec 2021 15:42

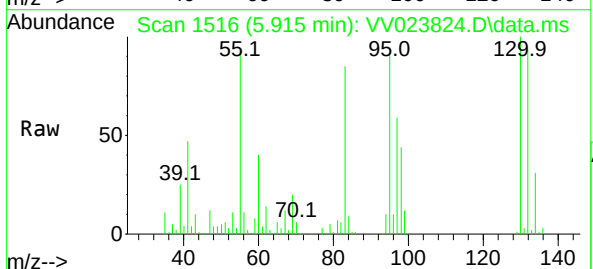
Instrument :
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ClientSampleId :



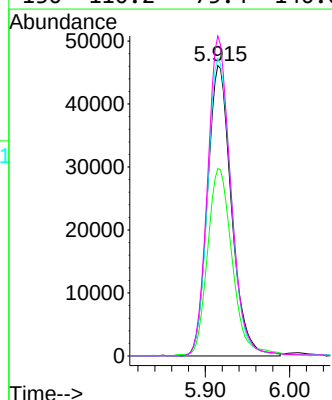
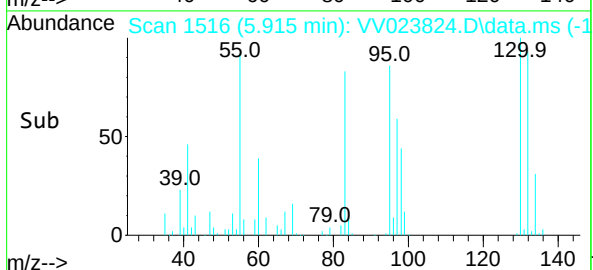
Tgt Ion: 56 Resp: 616053
Ion Ratio Lower Upper
56 100
69 30.3 24.8 37.2
84 94.7 75.9 113.9

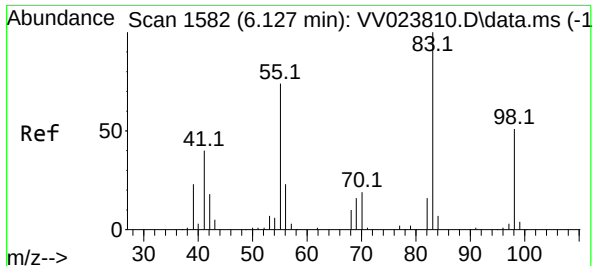


#34
Trichloroethene
Concen: 7.477 ug/L
RT: 5.915 min Scan# 1516
Delta R.T. 0.003 min
Lab File: VV023824.D
Acq: 07 Dec 2021 15:42



Tgt Ion: 95 Resp: 90768
Ion Ratio Lower Upper
95 100
97 64.5 45.2 84.0
132 102.5 76.1 141.3
130 110.2 75.4 140.0





#35

Methylcyclohexane

Concen: 11.105 ug/L

RT: 6.130 min Scan# 1583

Delta R.T. 0.003 min

Lab File: VV023824.D

Acq: 07 Dec 2021 15:42

Instrument :

MSVOA_V

ClientSampleId :

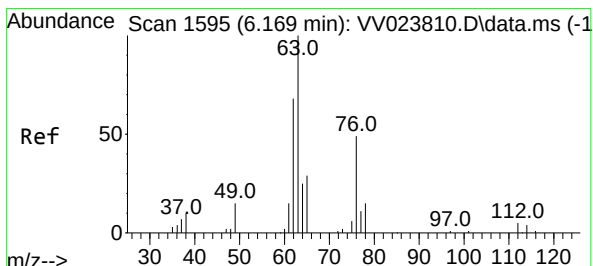
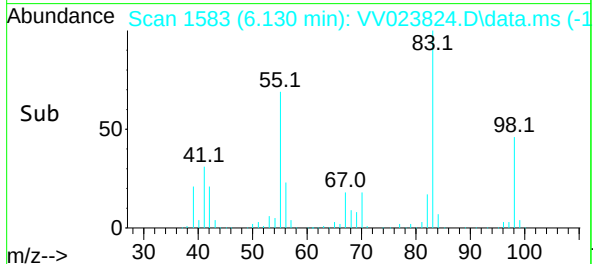
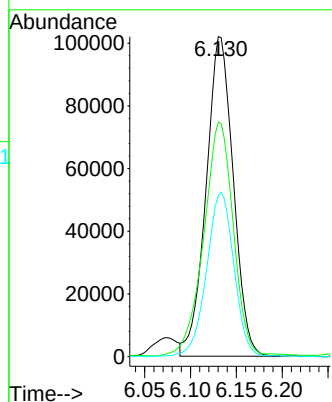
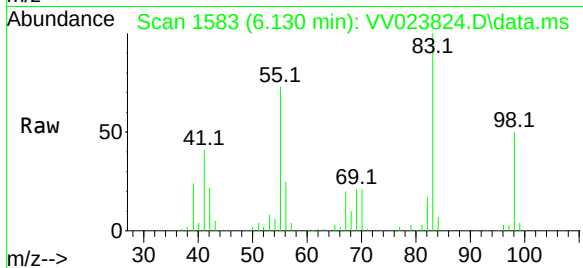
Tgt Ion: 83 Resp: 210188

Ion Ratio Lower Upper

83 100

55 80.0 60.2 90.2

98 52.1 41.0 61.4



#37

1,2-Dichloropropane

Concen: 0.296 ug/L

RT: 6.130 min Scan# 1583

Delta R.T. -0.038 min

Lab File: VV023824.D

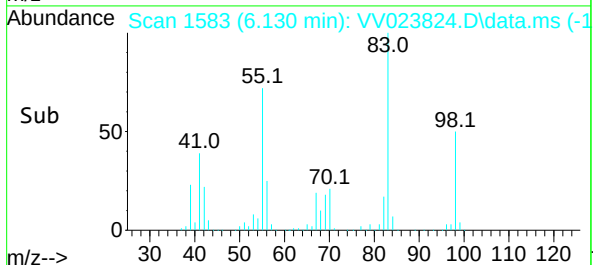
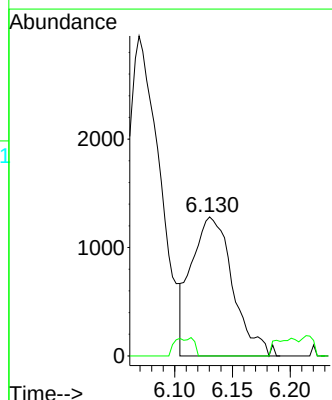
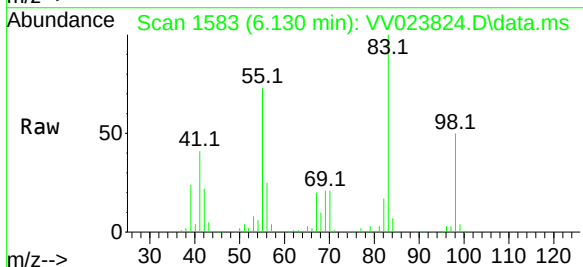
Acq: 07 Dec 2021 15:42

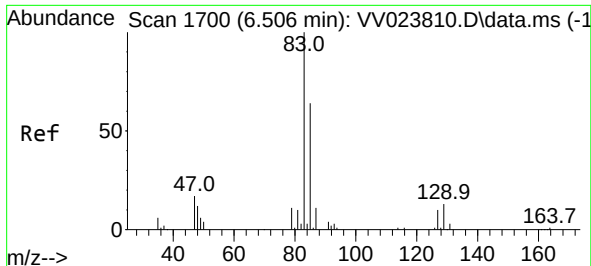
Tgt Ion: 63 Resp: 3190

Ion Ratio Lower Upper

63 100

112 3.4 4.3 6.5#





#38

Bromodichloromethane

Concen: 2.067 ug/L

RT: 6.564 min Scan# 1

Delta R.T. 0.058 min

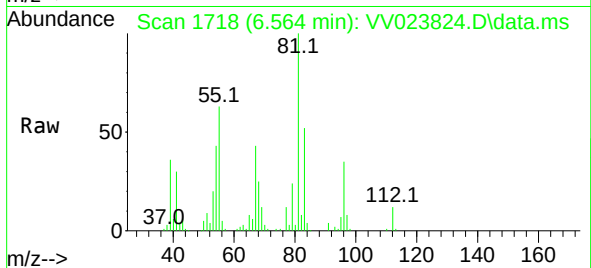
Lab File: VV023824.D

Acq: 07 Dec 2021 15:42

Instrument :

MSVOA_V

ClientSampleId :



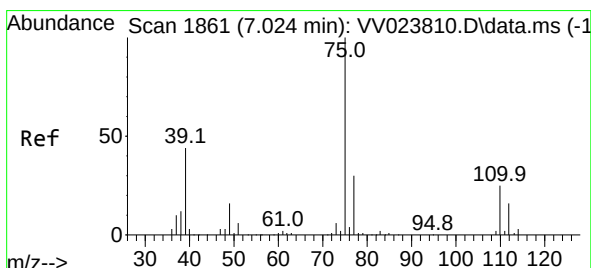
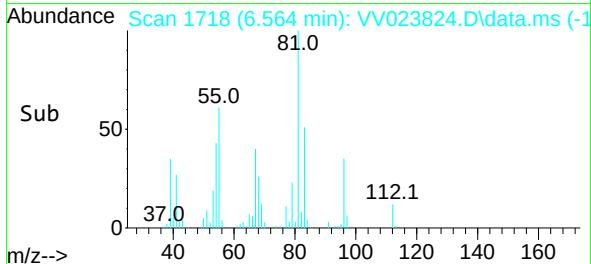
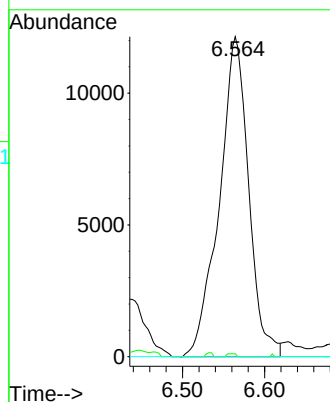
Tgt Ion: 83 Resp: 30226

Ion Ratio Lower Upper

83 100

85 0.9 44.0 81.8#

127 0.0 8.6 12.8#



#39

cis-1,3-Dichloropropene

Concen: 0.096 ug/L

RT: 6.989 min Scan# 1850

Delta R.T. -0.035 min

Lab File: VV023824.D

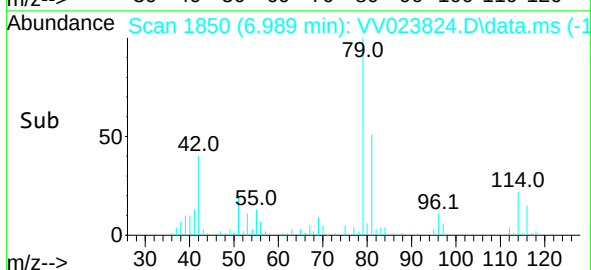
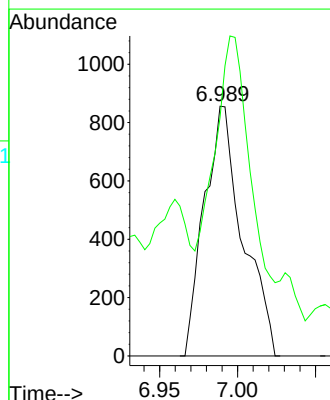
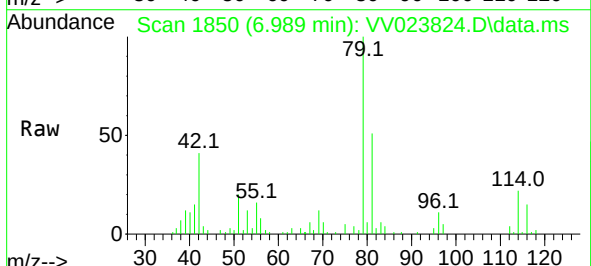
Acq: 07 Dec 2021 15:42

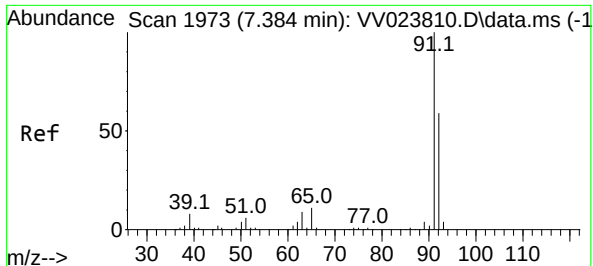
Tgt Ion: 75 Resp: 1468

Ion Ratio Lower Upper

75 100

77 95.6 22.0 41.0#





#42

Toluene

Concen: 7.804 ug/L

RT: 7.387 min Scan# 1973

Delta R.T. 0.003 min

Lab File: VV023824.D

Acq: 07 Dec 2021 15:42

Instrument :

MSVOA_V

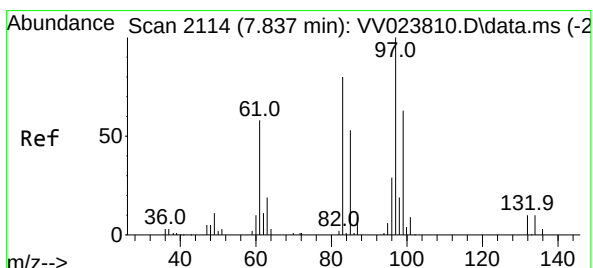
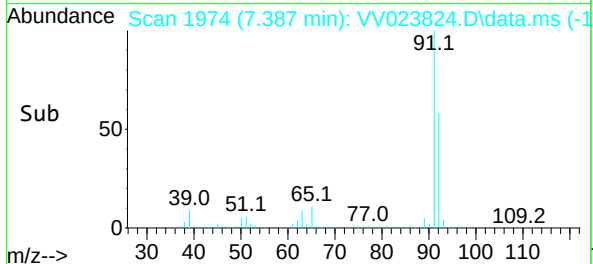
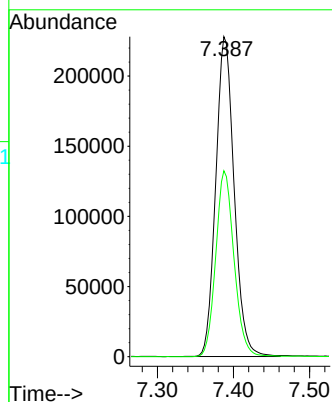
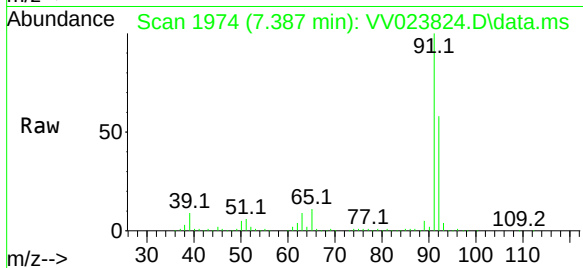
ClientSampleId :

Tgt Ion: 91 Resp: 383550

Ion Ratio Lower Upper

91 100

92 58.1 41.5 77.1



#45

1,1,2-Trichloroethane

Concen: 1.652 ug/L

RT: 7.789 min Scan# 2099

Delta R.T. -0.048 min

Lab File: VV023824.D

Acq: 07 Dec 2021 15:42

Tgt Ion: 97 Resp: 12322

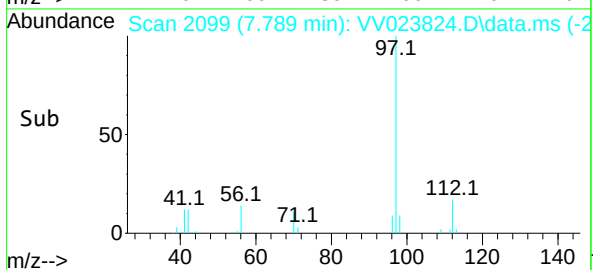
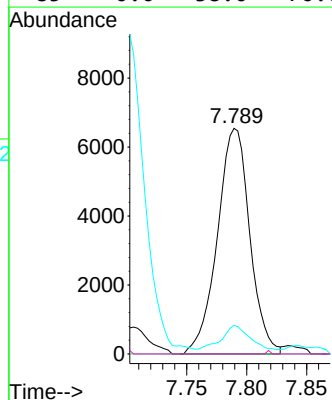
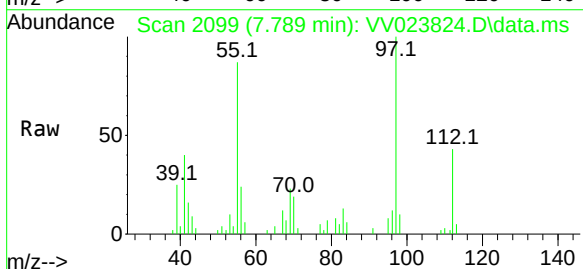
Ion Ratio Lower Upper

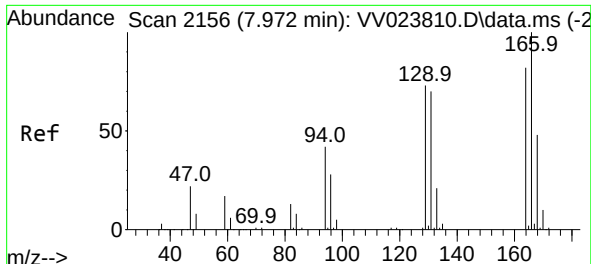
97 100

99 0.0 43.1 80.1#

83 12.7 57.9 107.5#

85 0.0 38.0 70.6#





#47

Tetrachloroethene

Concen: 211.867 ug/L

RT: 7.979 min Scan# 2156

Delta R.T. 0.007 min

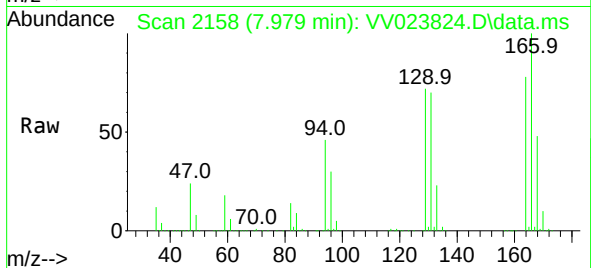
Lab File: VV023824.D

Acq: 07 Dec 2021 15:42

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 2341195

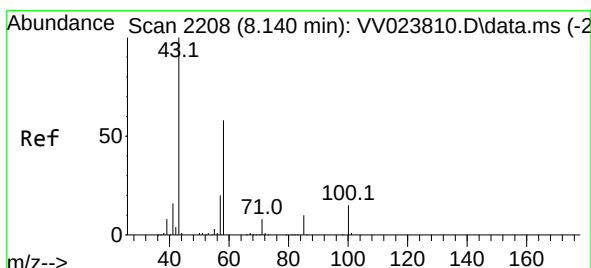
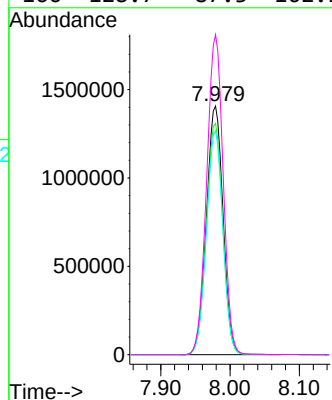
Ion Ratio Lower Upper

164 100

129 93.0 62.6 116.2

131 90.1 61.0 113.4

166 128.7 87.3 162.1



#48

2-Hexanone

Concen: 1.600 ug/L

RT: 8.156 min Scan# 2213

Delta R.T. 0.016 min

Lab File: VV023824.D

Acq: 07 Dec 2021 15:42

Tgt Ion: 43 Resp: 6082

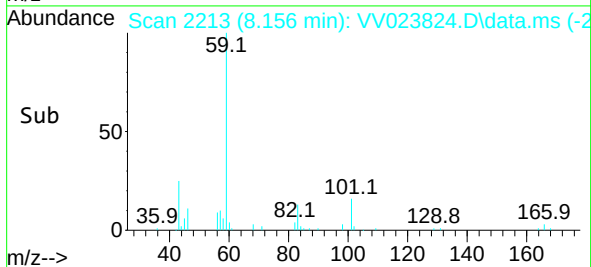
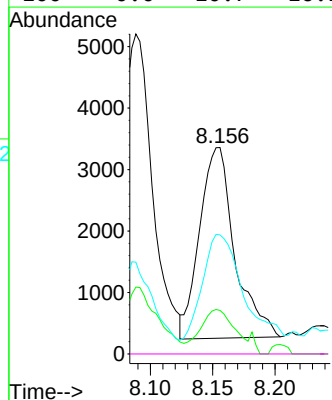
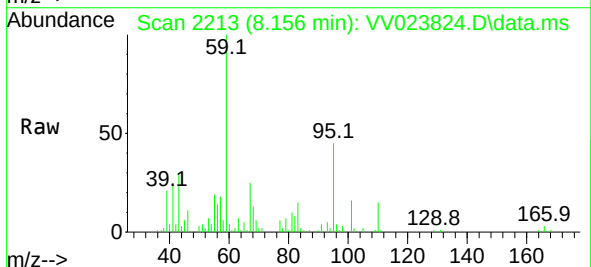
Ion Ratio Lower Upper

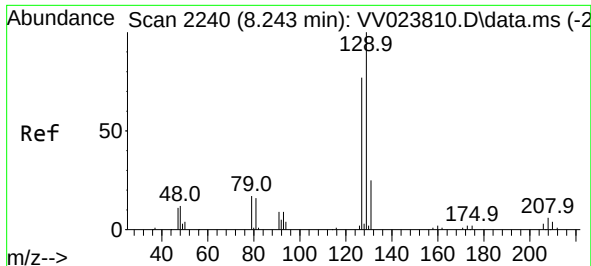
43 100

58 24.5 44.5 66.7#

57 62.6 15.1 22.7#

100 0.0 10.7 16.1#





#49

Dibromochloromethane

Concen: 208.887 ug/L

RT: 7.979 min Scan# 2158

Delta R.T. -0.264 min

Lab File: VV023824.D

Acq: 07 Dec 2021 15:42

Instrument :

MSVOA_V

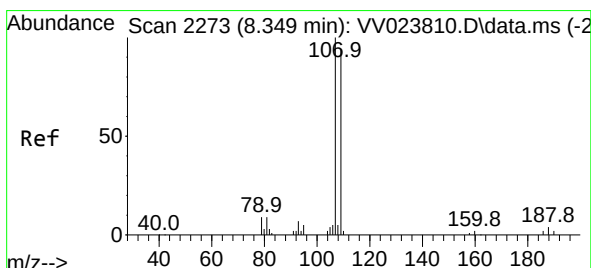
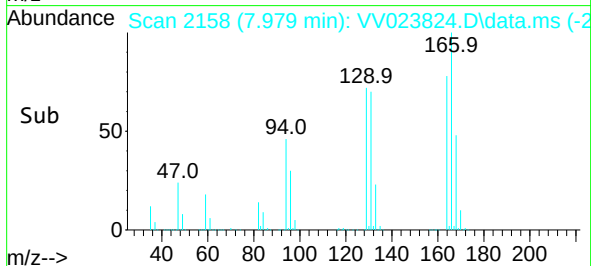
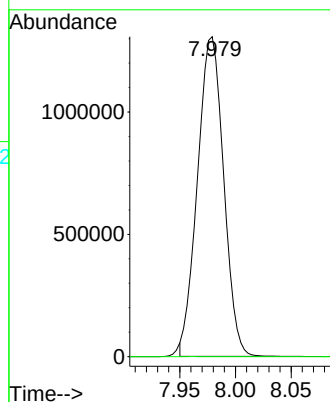
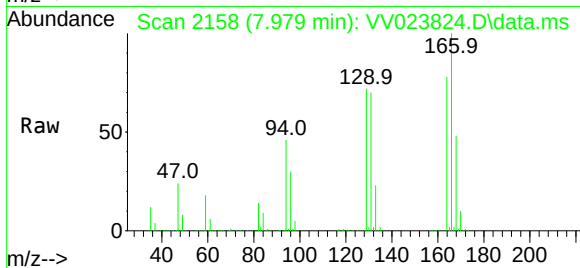
ClientSampleId :

Tgt Ion:129 Resp: 2135242

Ion Ratio Lower Upper

129 100

127 0.0 53.5 99.3#



#50

1,2-Dibromoethane

Concen: 0.060 ug/L

RT: 8.391 min Scan# 2286

Delta R.T. 0.042 min

Lab File: VV023824.D

Acq: 07 Dec 2021 15:42

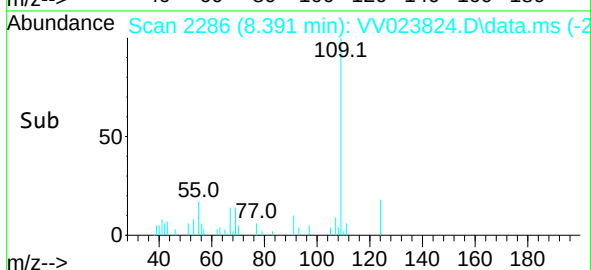
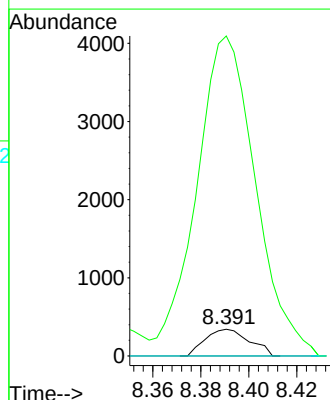
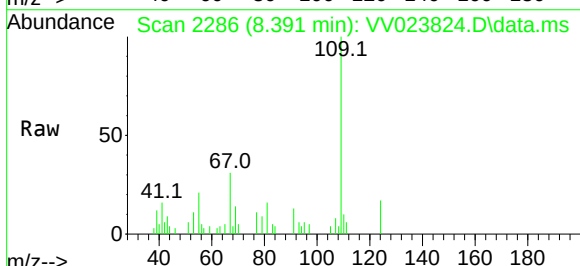
Tgt Ion:107 Resp: 439

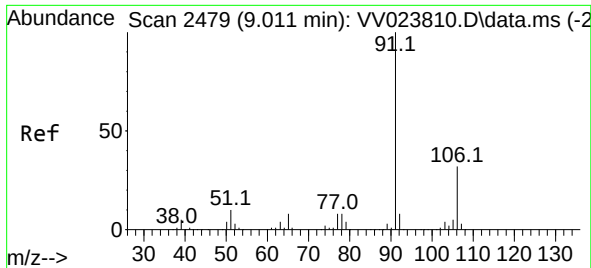
Ion Ratio Lower Upper

107 100

109 1197.4 62.5 116.1#

188 0.0 3.4 5.2#

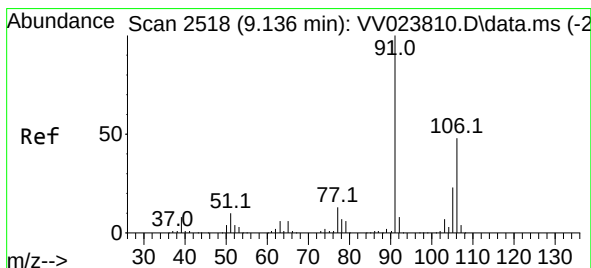
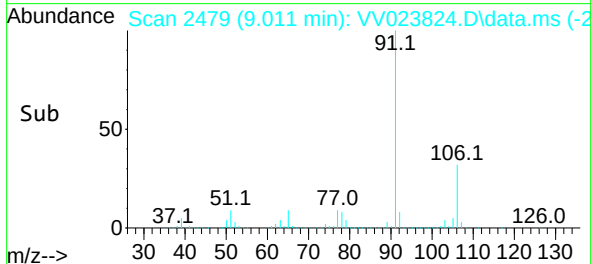
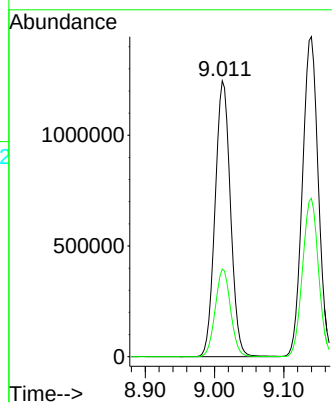
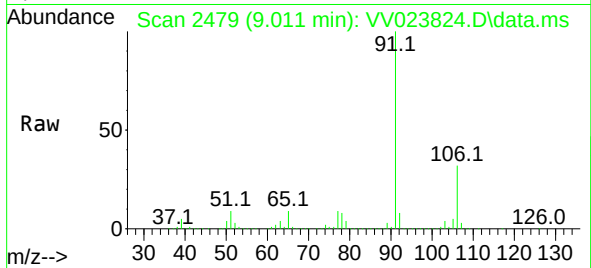




#52
Ethylbenzene
Concen: 37.399 ug/L
RT: 9.011 min Scan# 2479
Delta R.T. 0.000 min
Lab File: VV023824.D
Acq: 07 Dec 2021 15:42

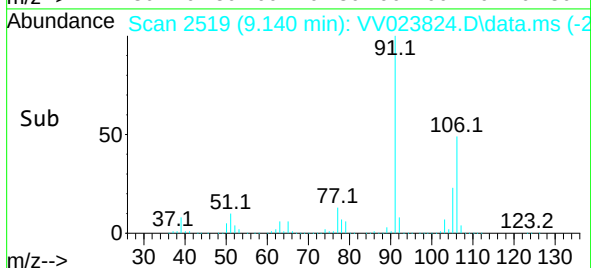
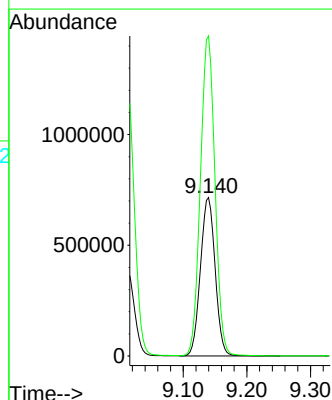
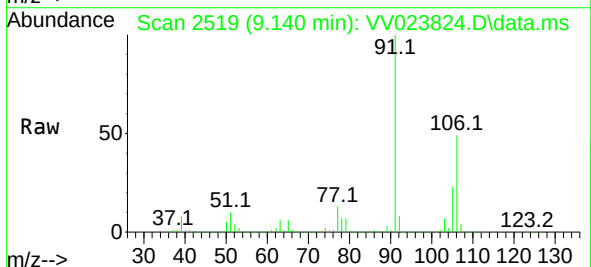
Instrument :
MSVOA_V
ClientSampleId :

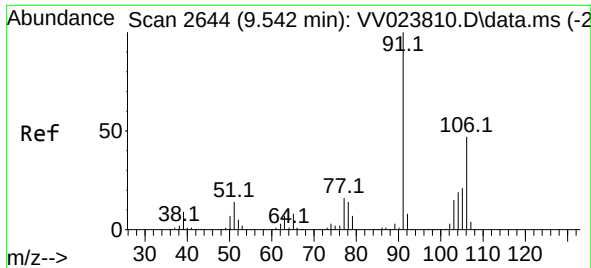
Tgt Ion: 91 Resp: 1921442
Ion Ratio Lower Upper
91 100
106 31.8 22.0 41.0



#53
m,p-xylene
Concen: 56.095 ug/L
RT: 9.140 min Scan# 2519
Delta R.T. 0.003 min
Lab File: VV023824.D
Acq: 07 Dec 2021 15:42

Tgt Ion: 106 Resp: 1147000
Ion Ratio Lower Upper
106 100
91 202.1 139.5 259.1

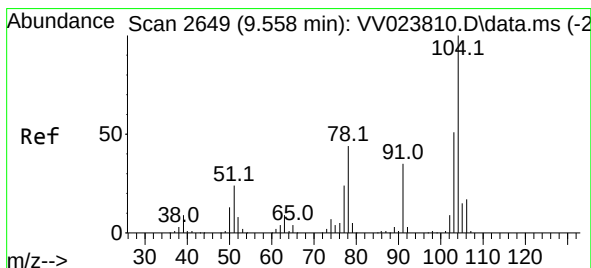
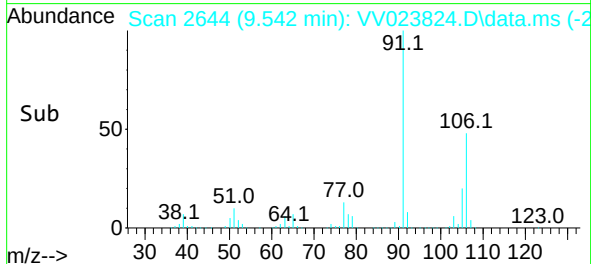
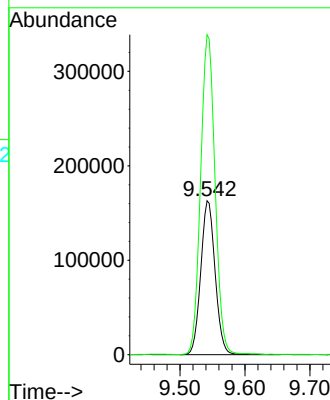
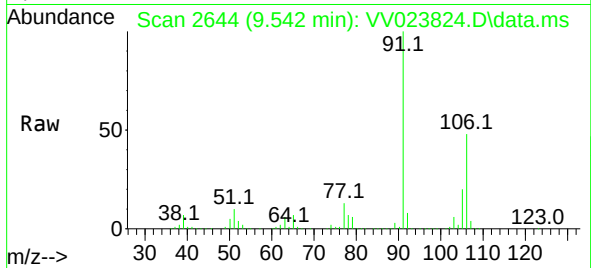




#54
o-xylene
Concen: 12.908 ug/L
RT: 9.542 min Scan# 2644
Delta R.T. 0.000 min
Lab File: VV023824.D
Acq: 07 Dec 2021 15:42

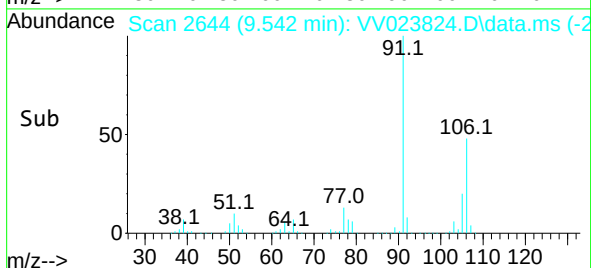
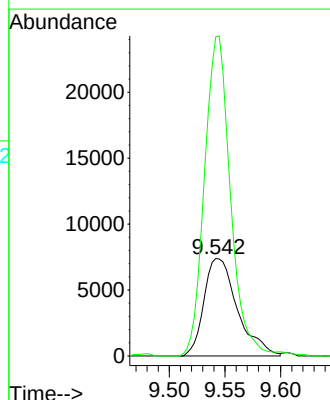
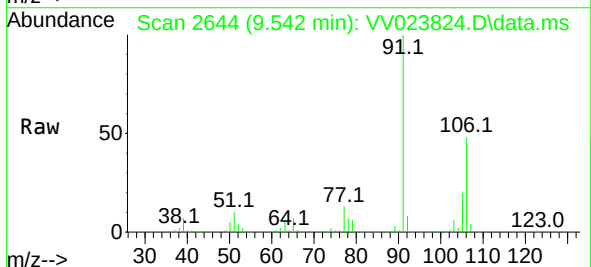
Instrument :
MSVOA_V
ClientSampleId :

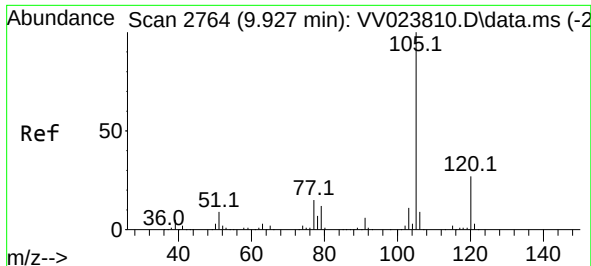
Tgt Ion:106 Resp: 251007
Ion Ratio Lower Upper
106 100
91 207.9 147.9 274.7



#55
Styrene
Concen: 0.472 ug/L
RT: 9.542 min Scan# 2644
Delta R.T. -0.016 min
Lab File: VV023824.D
Acq: 07 Dec 2021 15:42

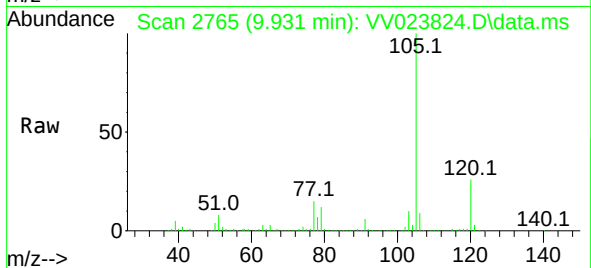
Tgt Ion:104 Resp: 15465
Ion Ratio Lower Upper
104 100
78 327.2 31.0 57.6#



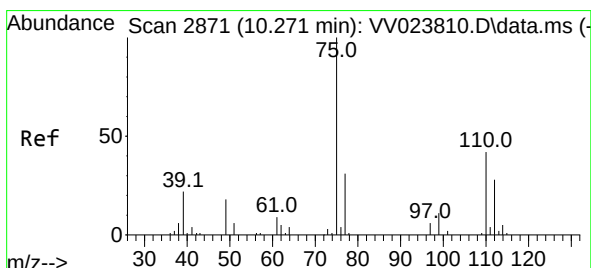
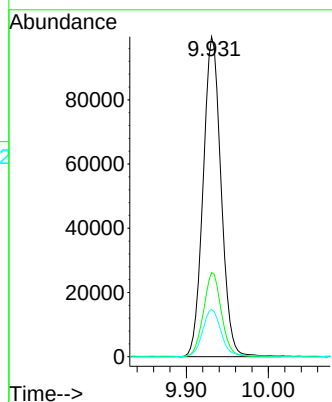
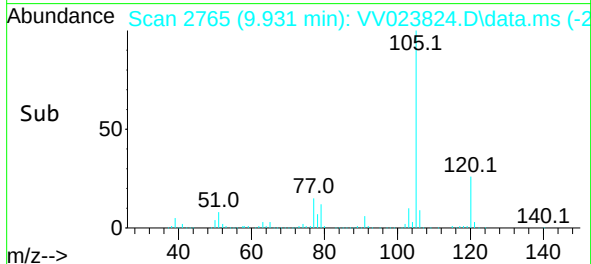


#60
Isopropylbenzene
Concen: 2.882 ug/L
RT: 9.931 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV023824.D
Acq: 07 Dec 2021 15:42

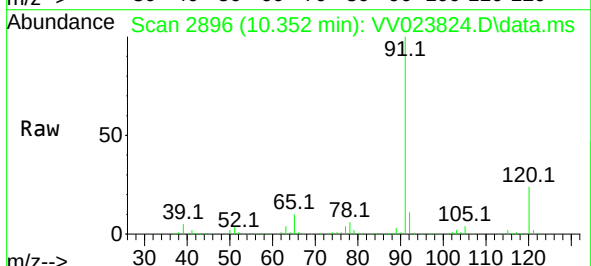
Instrument :
MSVOA_V
ClientSampleId :



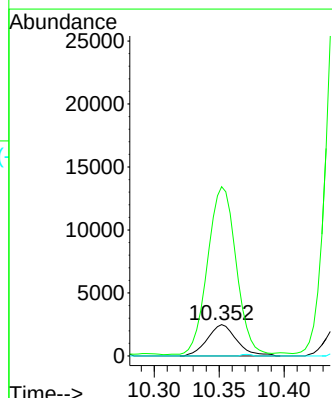
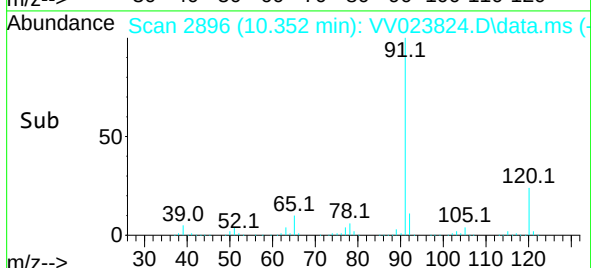
Tgt Ion:105 Resp: 151639
Ion Ratio Lower Upper
105 100
120 26.3 21.4 32.0
77 15.6 12.2 18.4

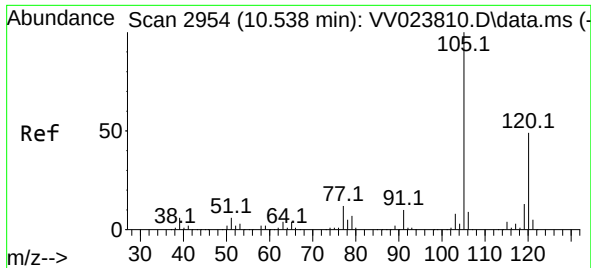


#61
1,2,3-Trichloropropane
Concen: 0.626 ug/L
RT: 10.352 min Scan# 2896
Delta R.T. 0.080 min
Lab File: VV023824.D
Acq: 07 Dec 2021 15:42



Tgt Ion: 75 Resp: 3910
Ion Ratio Lower Upper
75 100
77 519.1 26.4 39.6#
110 0.0 34.2 51.2#





#62

1,3,5-Trimethylbenzene

Concen: 7.476 ug/L

RT: 10.538 min Scan# 2954

Delta R.T. 0.000 min

Lab File: VV023824.D

Acq: 07 Dec 2021 15:42

Instrument :

MSVOA_V

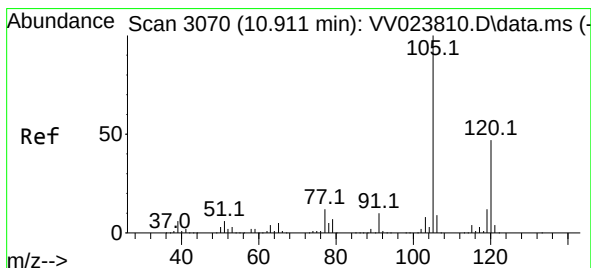
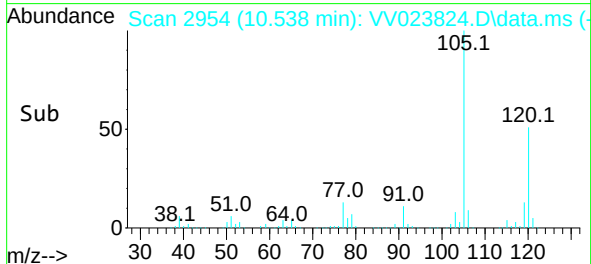
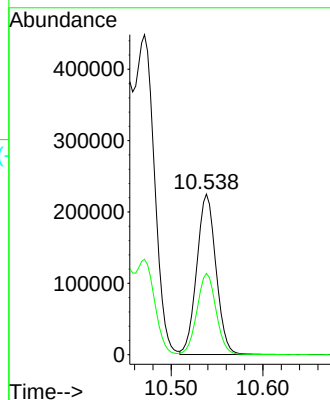
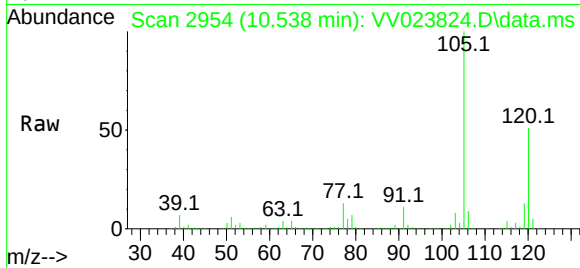
ClientSampleId :

Tgt Ion:105 Resp: 327335

Ion Ratio Lower Upper

105 100

120 50.3 40.1 60.1



#63

1,2,4-Trimethylbenzene

Concen: 64.869 ug/L

RT: 10.915 min Scan# 3071

Delta R.T. 0.003 min

Lab File: VV023824.D

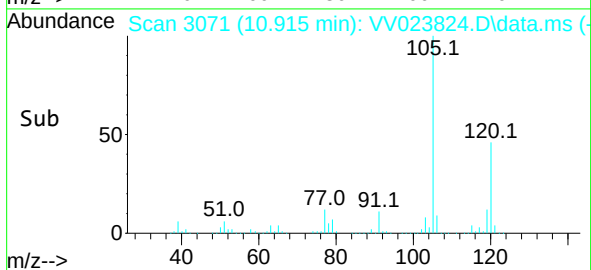
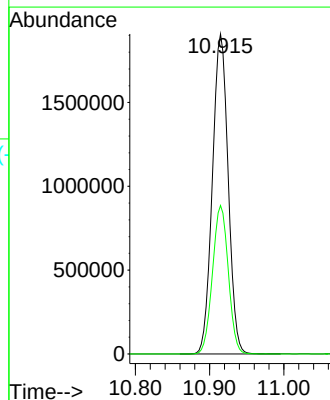
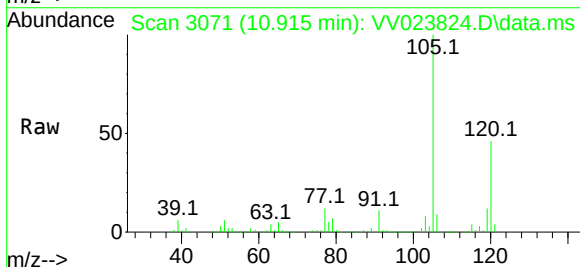
Acq: 07 Dec 2021 15:42

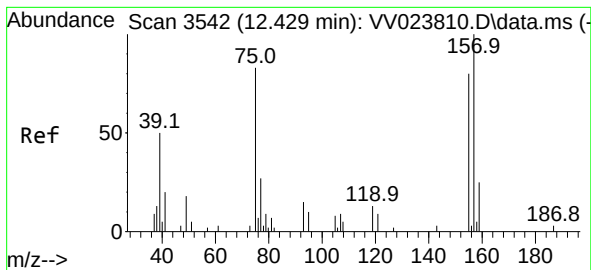
Tgt Ion:105 Resp: 2808753

Ion Ratio Lower Upper

105 100

120 46.5 36.7 55.1

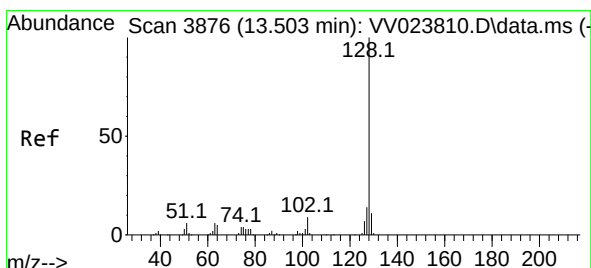
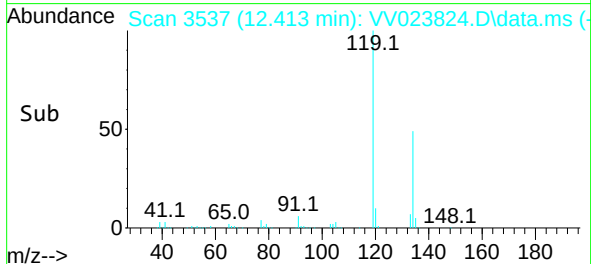
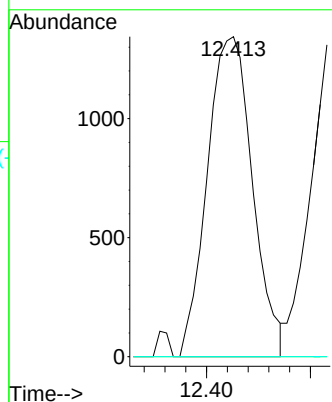
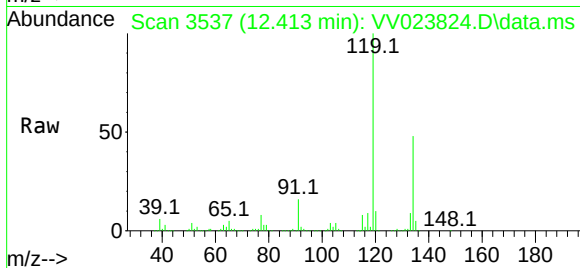




#68
1,2-Dibromo-3-chloropropane
Concen: 1.636 ug/L
RT: 12.413 min Scan# 3537
Delta R.T. -0.013 min
Lab File: VV023824.D
Acq: 07 Dec 2021 15:42

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 75 Resp: 2031
Ion Ratio Lower Upper
75 100
155 0.0 71.7 107.5#
157 0.0 103.3 154.9#



#71
Naphthalene
Concen: 28.713 ug/L
RT: 13.500 min Scan# 3875
Delta R.T. -0.003 min
Lab File: VV023824.D
Acq: 07 Dec 2021 15:42

Tgt Ion: 128 Resp: 629748
Ion Ratio Lower Upper
128 100
129 11.4 9.0 13.4
127 12.9 10.2 15.4

