

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD060223\
 Data File : VD076317.D
 Acq On : 02 Jun 2023 17:01
 Operator : KP/SY
 Sample : 02986-01
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-13-0A

Quant Time: Jun 03 02:24:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D060123S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 02 05:50:45 2023
 Response via : Initial Calibration

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

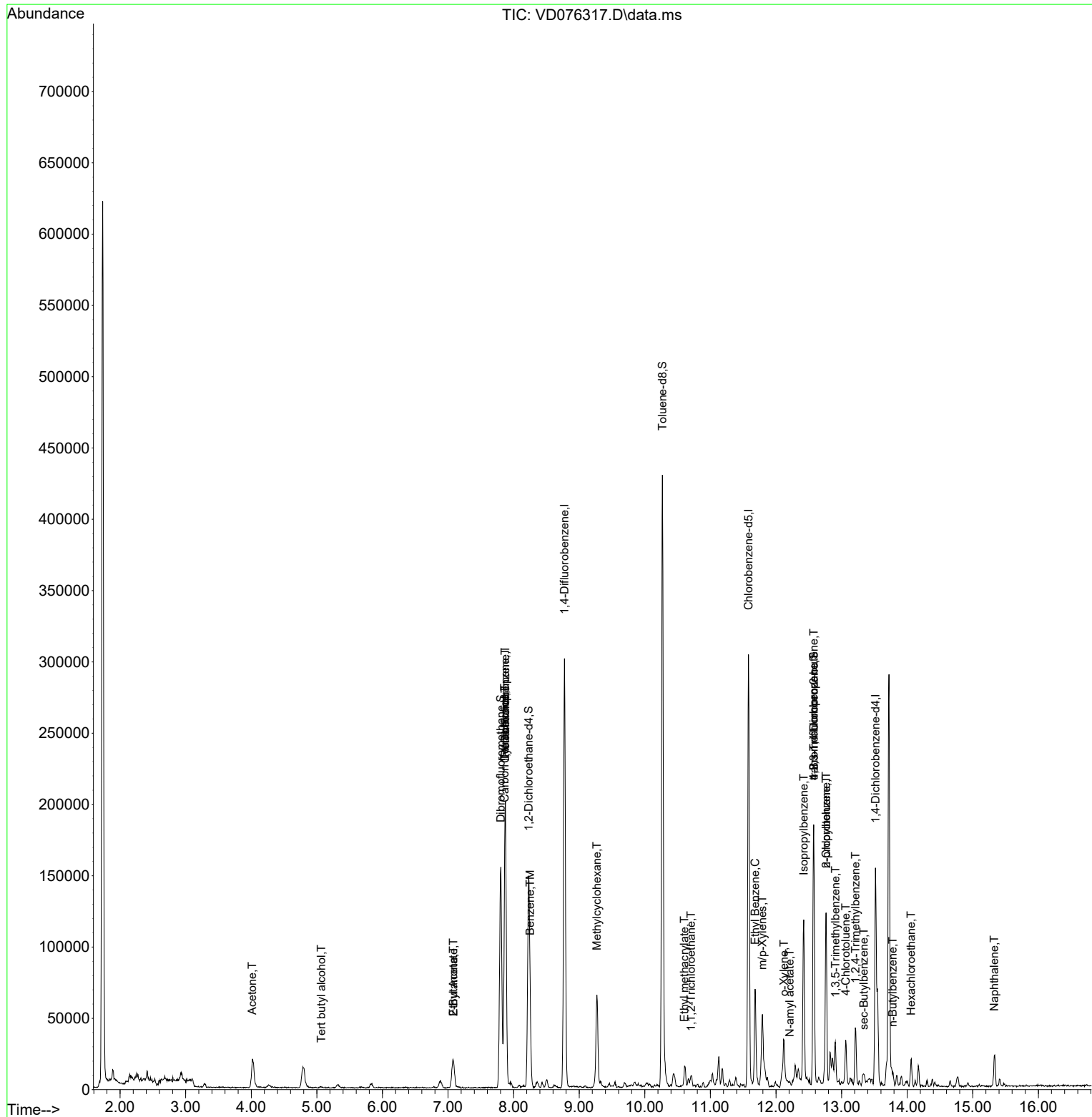
Internal Standards						
1) Pentafluorobenzene	7.875	168	153059	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	281041	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	187803	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	43350	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	98385	65.957	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 131.920%			
35) Dibromofluoromethane	7.805	113	113488	61.173	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 122.340%			
50) Toluene-d8	10.269	98	299943	41.933	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 83.860%			
62) 4-Bromofluorobenzene	12.575	95	55832	27.985	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 55.960%			
Target Compounds					Qvalue	
3) Chloromethane	2.140	50	804	Below Cal		90
6) Chloroethane	2.781	64	63	Below Cal	#	43
11) Tert butyl alcohol	5.069	59	1645	17.323	ug/l #	73
13) Acrolein	3.799	56	54	Below Cal	#	62
16) Acetone	4.016	43	33945	139.420	ug/l	98
20) Methylene Chloride	4.787	84	13278	Below Cal		97
25) 2-Butanone	7.081	43	10532	27.059	ug/l	88
31) Cyclohexane	7.869	56	10417	4.537	ug/l #	81
36) 1,1-Dichloropropene	7.869	75	11072	4.316	ug/l #	45
37) Ethyl Acetate	7.081	43	10532	10.826	ug/l #	73
38) Carbon Tetrachloride	7.863	117	13072	5.917	ug/l #	15
39) Methylcyclohexane	9.269	83	26475	9.159	ug/l	92
40) Benzene	8.252	78	45681	5.610	ug/l	98
55) 1,1,2-Trichloroethane	10.704	97	3412	2.078	ug/l #	16
56) Ethyl methacrylate	10.604	69	2169	3.823	ug/l #	59
67) Ethyl Benzene	11.681	91	47322	7.336	ug/l	96
68) m/p-Xylenes	11.793	106	16941	6.349	ug/l	91
69) o-Xylene	12.122	106	9314	3.804	ug/l	95
73) Isopropylbenzene	12.422	105	76691	29.045	ug/l	98
74) N-amyl acetate	12.210	43	845	1.638	ug/l #	51
76) 1,2,3-Trichloropropane	12.575	75	28053	71.932	ug/l #	100
78) n-propylbenzene	12.763	91	96041	29.137	ug/l	98
79) 2-Chlorotoluene	12.763	91	96041	52.236	ug/l #	36
80) 1,3,5-Trimethylbenzene	12.904	105	10020	4.559	ug/l	93
81) trans-1,4-Dichloro-2-b...	12.575	75	28053	165.006	ug/l #	17
82) 4-Chlorotoluene	13.063	91	3246	1.647	ug/l #	36
84) 1,2,4-Trimethylbenzene	13.210	105	22219	9.905	ug/l	91
85) sec-Butylbenzene	13.340	105	4189	1.476	ug/l #	66
89) n-Butylbenzene	13.781	91	5138	2.357	ug/l #	76
90) Hexachloroethane	14.057	117	1676	3.492	ug/l #	11
95) Naphthalene	15.328	128	21983	16.037	ug/l	100

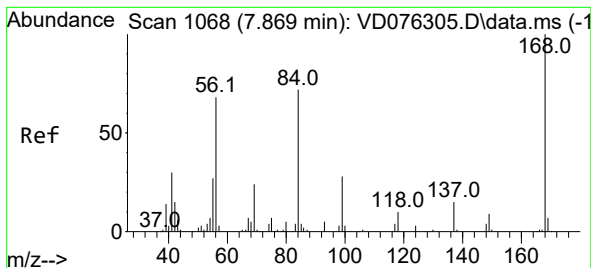
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD060223\
Data File : VD076317.D
Acq On : 02 Jun 2023 17:01
Operator : KP/SY
Sample : 02986-01
Misc : 5.00G/5.00ml/MSVOA_D/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
TP-13-0A

Quant Time: Jun 03 02:24:35 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D060123S.M
Quant Title : SW846 8260
QLast Update : Fri Jun 02 05:50:45 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.875 min Scan# 1

Delta R.T. 0.006 min

Lab File: VD076317.D

Acq: 02 Jun 2023 17:01

Instrument :

MSVOA_D

ClientSampleId :

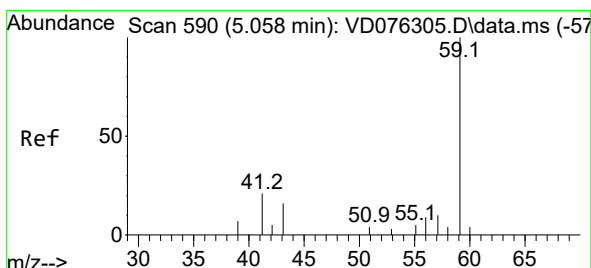
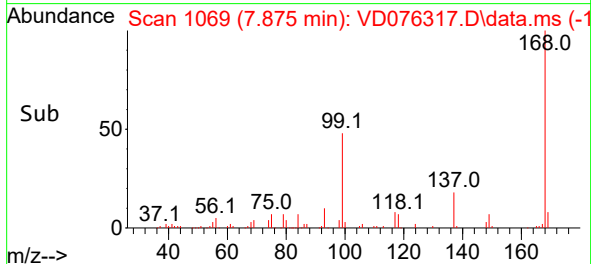
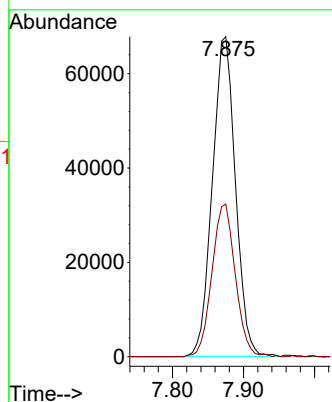
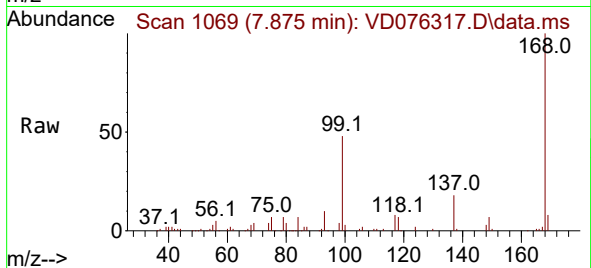
TP-13-0A

Tgt Ion:168 Resp: 153059

Ion Ratio Lower Upper

168 100

99 47.7 36.7 55.1



#11

Tert butyl alcohol

Concen: 17.323 ug/l

RT: 5.069 min Scan# 592

Delta R.T. 0.012 min

Lab File: VD076317.D

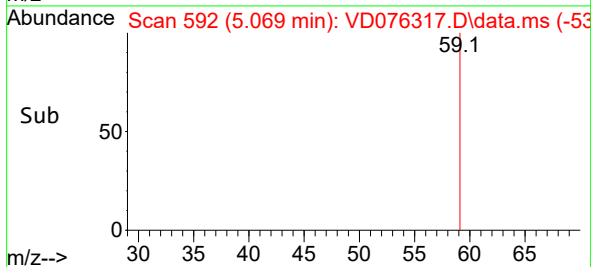
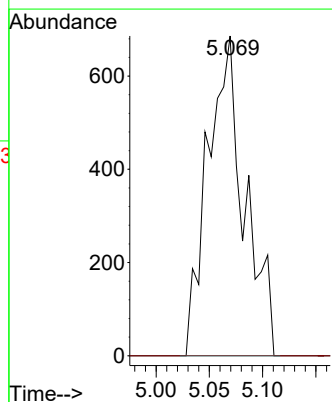
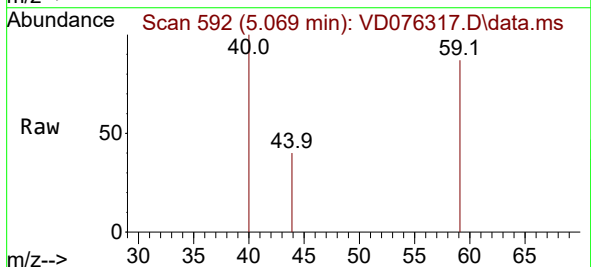
Acq: 02 Jun 2023 17:01

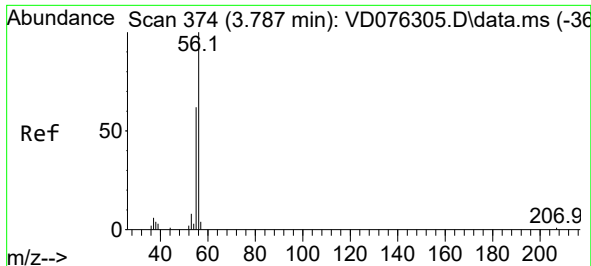
Tgt Ion: 59 Resp: 1645

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#

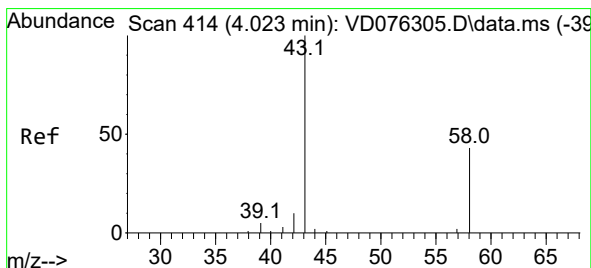
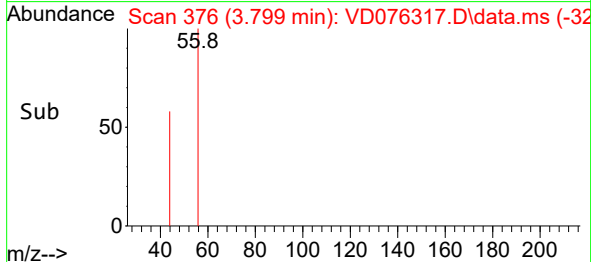
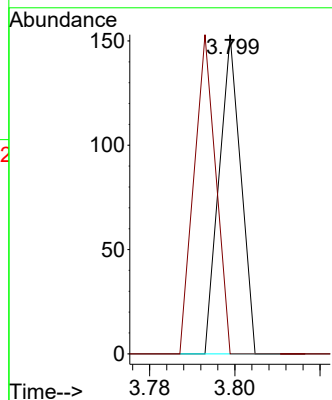
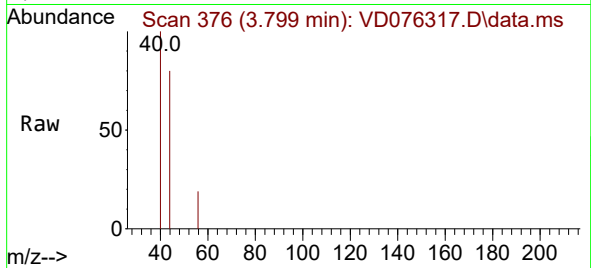




#13
Acrolein
Concen: Below Cal
RT: 3.799 min Scan# 31
Delta R.T. 0.012 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

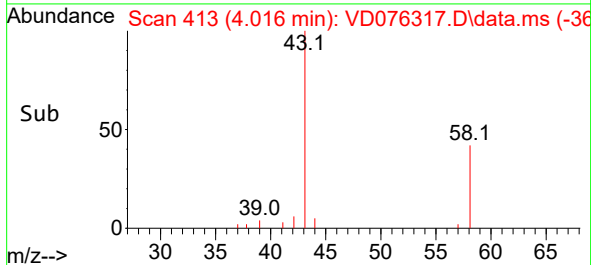
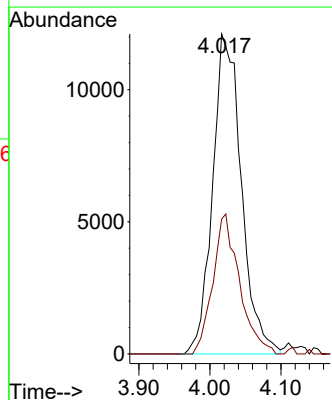
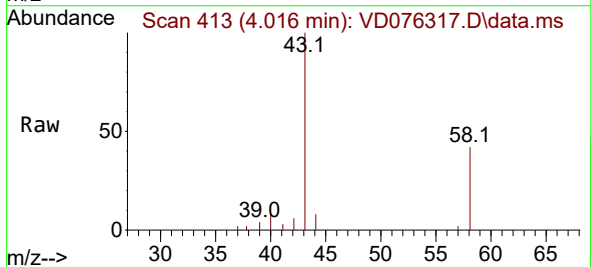
Instrument :
MSVOA_D
ClientSampleId :
TP-13-0A

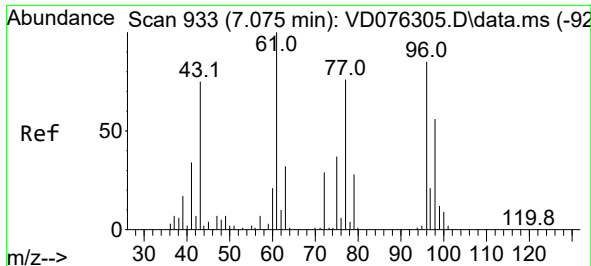
Tgt Ion: 56 Resp: 54
Ion Ratio Lower Upper
56 100
55 100.0 55.1 82.7#



#16
Acetone
Concen: 139.420 ug/l
RT: 4.016 min Scan# 413
Delta R.T. -0.006 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

Tgt Ion: 43 Resp: 33945
Ion Ratio Lower Upper
43 100
58 42.2 34.7 52.1

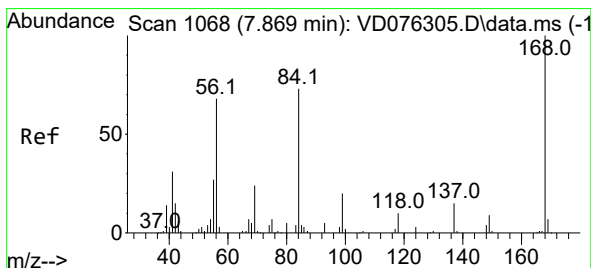
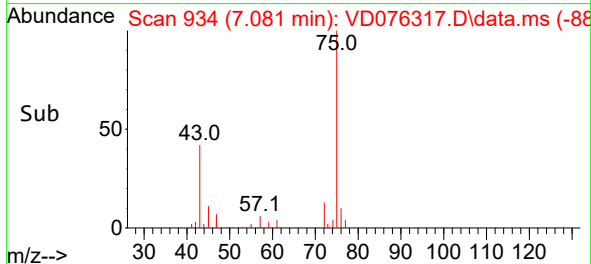
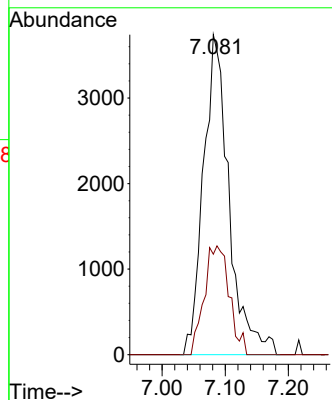
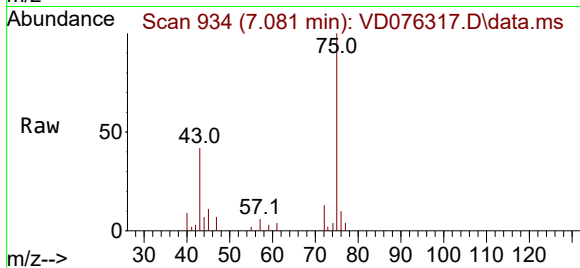




#25
2-Butanone
Concen: 27.059 ug/l
RT: 7.081 min Scan# 91
Delta R.T. 0.006 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

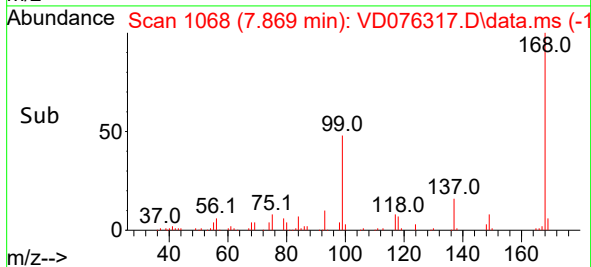
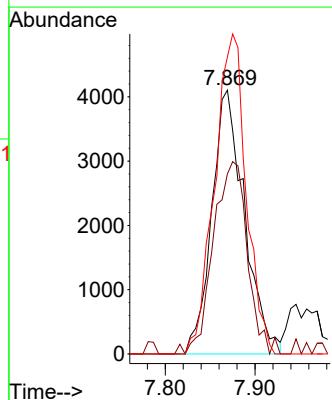
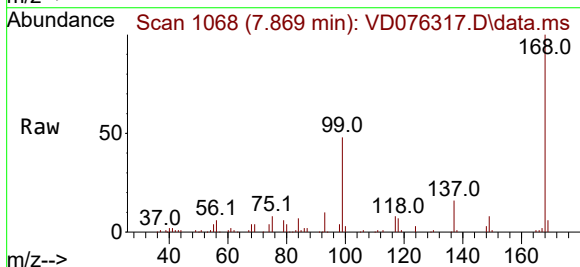
Instrument :
MSVOA_D
ClientSampleId :
TP-13-0A

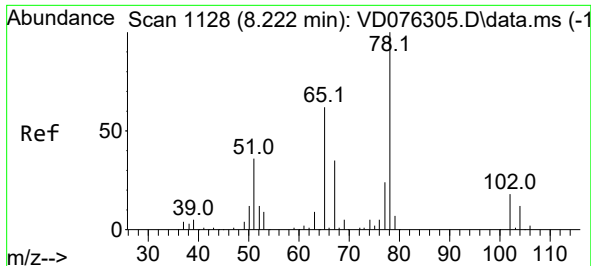
Tgt Ion: 43 Resp: 10532
Ion Ratio Lower Upper
43 100
72 31.4 30.7 46.1



#31
Cyclohexane
Concen: 4.537 ug/l
RT: 7.869 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

Tgt Ion: 56 Resp: 10417
Ion Ratio Lower Upper
56 100
69 68.3 28.6 43.0#
84 112.6 84.8 127.2





#33

1,2-Dichloroethane-d4

Concen: 65.957 ug/l

RT: 8.228 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VD076317.D

Acq: 02 Jun 2023 17:01

Instrument :

MSVOA_D

ClientSampleId :

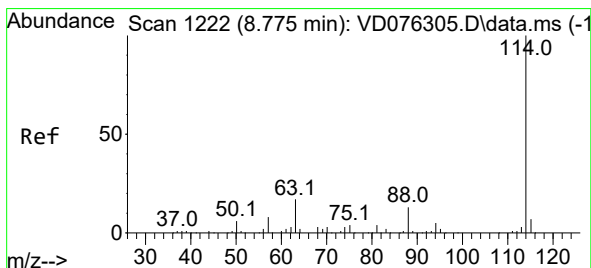
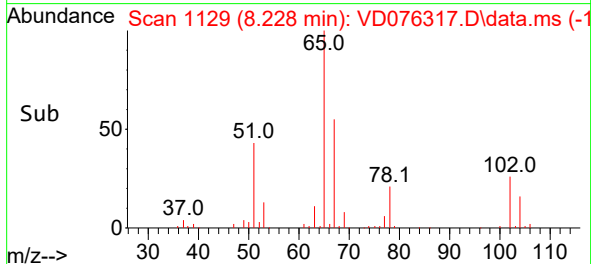
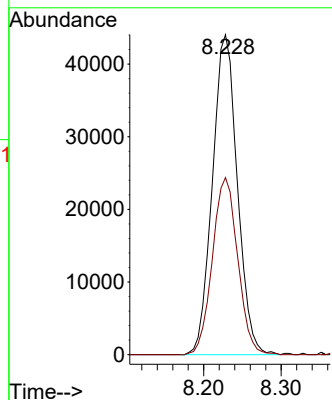
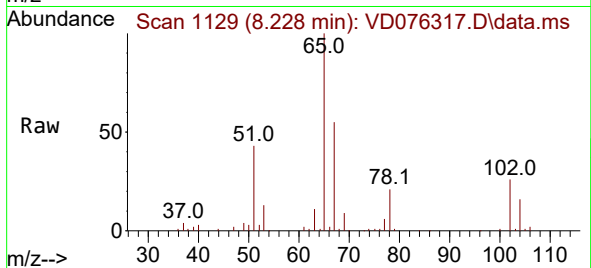
TP-13-0A

Tgt Ion: 65 Resp: 98385

Ion Ratio Lower Upper

65 100

67 56.1 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. 0.000 min

Lab File: VD076317.D

Acq: 02 Jun 2023 17:01

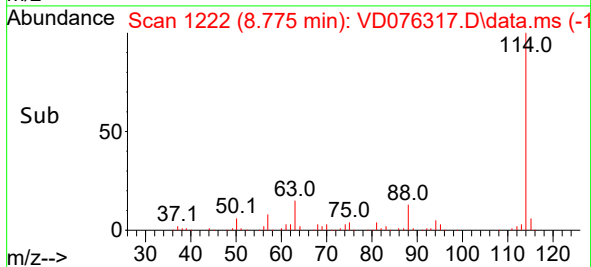
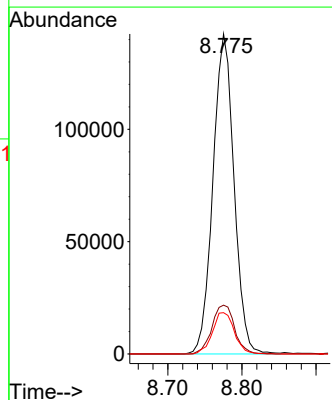
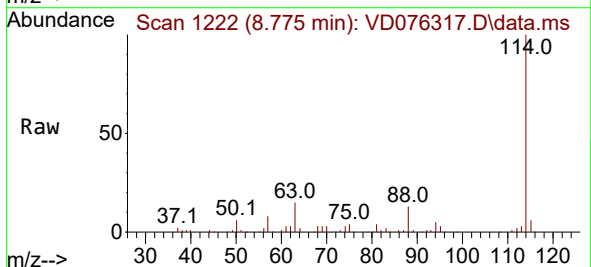
Tgt Ion:114 Resp: 281041

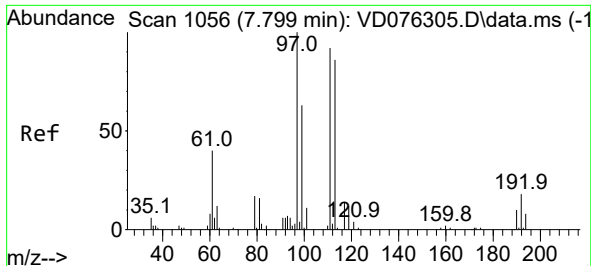
Ion Ratio Lower Upper

114 100

63 15.3 0.0 33.4

88 12.9 0.0 26.2

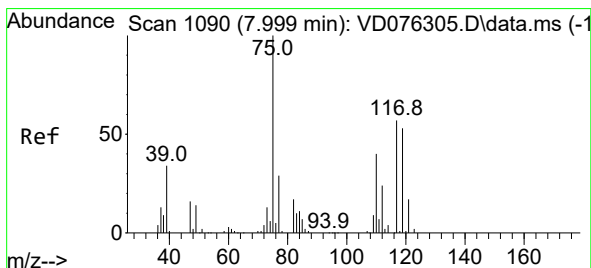
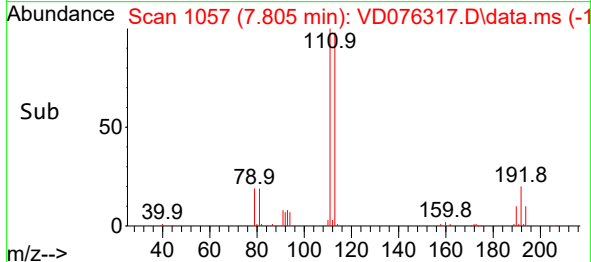
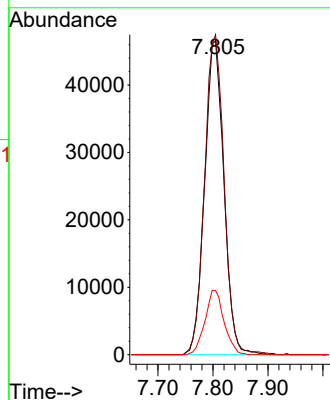
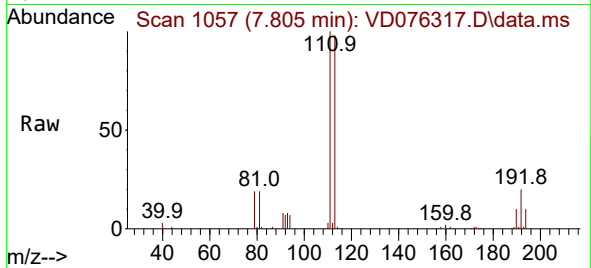




#35
Dibromofluoromethane
Concen: 61.173 ug/l
RT: 7.805 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

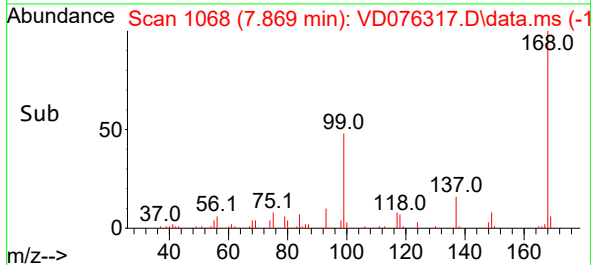
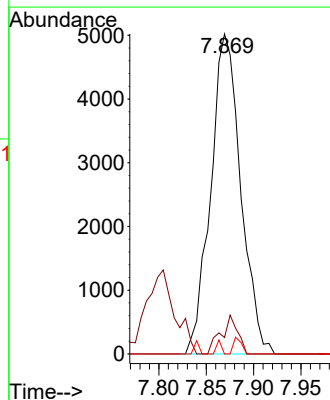
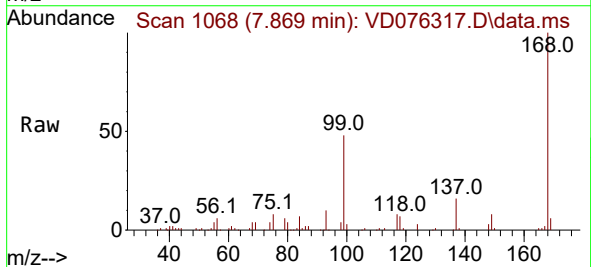
Instrument :
MSVOA_D
ClientSampleId :
TP-13-0A

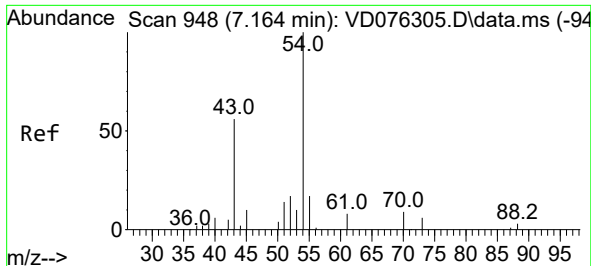
Tgt Ion:113 Resp: 113488
Ion Ratio Lower Upper
113 100
111 102.8 84.7 127.1
192 20.3 16.8 25.2



#36
1,1-Dichloropropene
Concen: 4.316 ug/l
RT: 7.869 min Scan# 1068
Delta R.T. -0.130 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

Tgt Ion: 75 Resp: 11072
Ion Ratio Lower Upper
75 100
110 6.7 19.9 59.6#
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 10.826 ug/l

RT: 7.081 min Scan# 91

Delta R.T. -0.082 min

Lab File: VD076317.D

Acq: 02 Jun 2023 17:01

Instrument :

MSVOA_D

ClientSampleId :

TP-13-0A

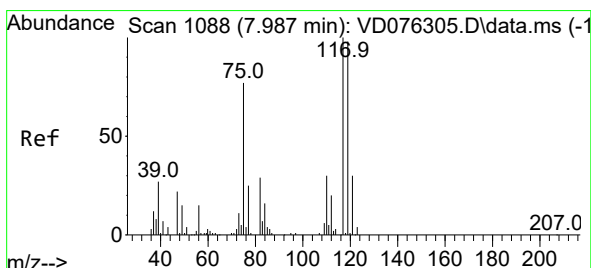
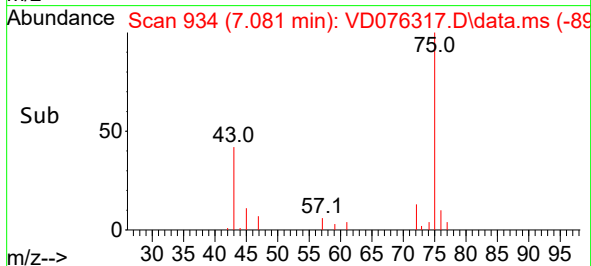
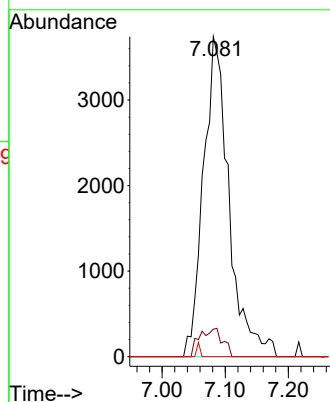
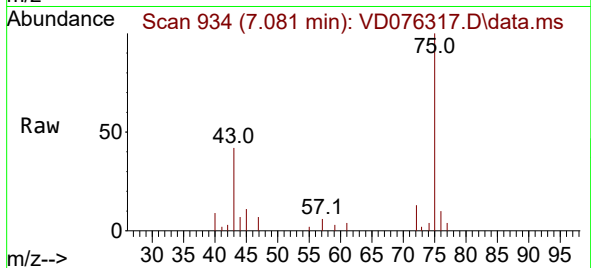
Tgt Ion: 43 Resp: 10532

Ion Ratio Lower Upper

43 100

61 8.0 14.9 22.3#

70 0.0 10.0 15.0#



#38

Carbon Tetrachloride

Concen: 5.917 ug/l

RT: 7.863 min Scan# 1067

Delta R.T. -0.124 min

Lab File: VD076317.D

Acq: 02 Jun 2023 17:01

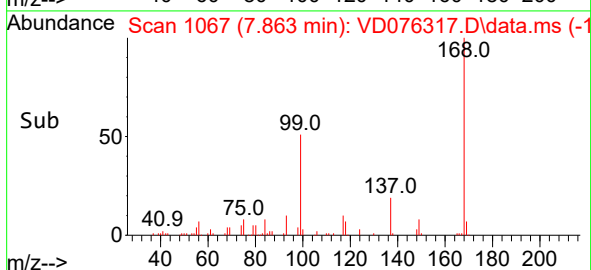
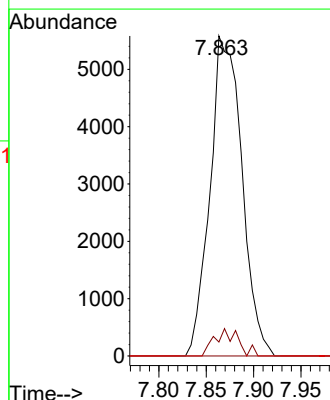
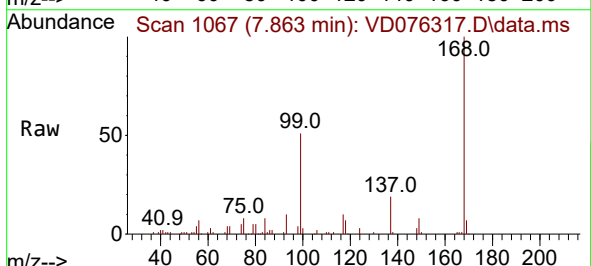
Tgt Ion: 117 Resp: 13072

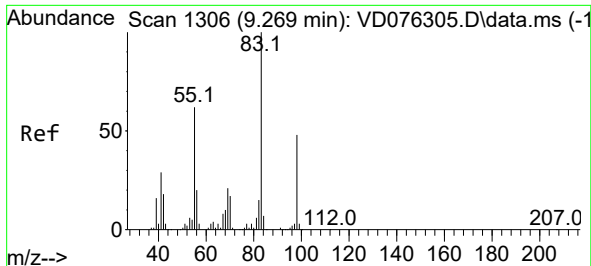
Ion Ratio Lower Upper

117 100

119 4.4 78.0 117.0#

121 0.0 24.2 36.2#





#39

Methylcyclohexane

Concen: 9.159 ug/l

RT: 9.269 min Scan# 11306

Delta R.T. -0.000 min

Lab File: VD076317.D

Acq: 02 Jun 2023 17:01

Instrument :

MSVOA_D

ClientSampleId :

TP-13-0A

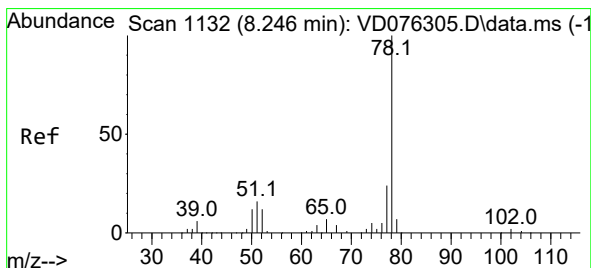
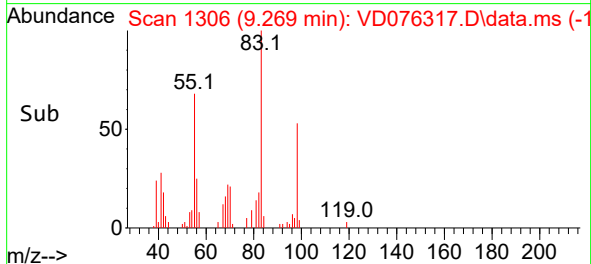
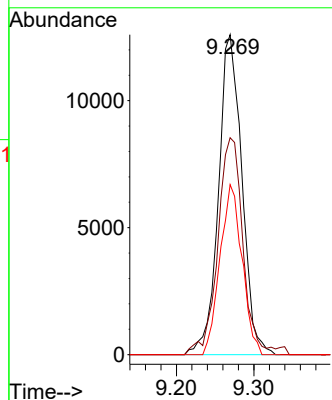
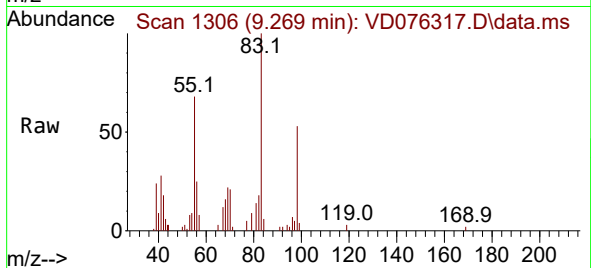
Tgt Ion: 83 Resp: 26475

Ion Ratio Lower Upper

83 100

55 67.8 49.4 74.0

98 53.1 38.4 57.6



#40

Benzene

Concen: 5.610 ug/l

RT: 8.252 min Scan# 1133

Delta R.T. 0.006 min

Lab File: VD076317.D

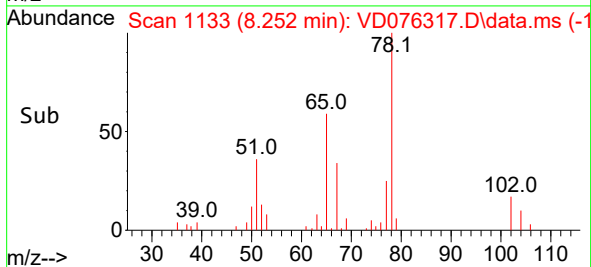
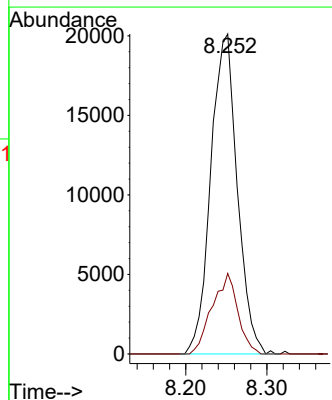
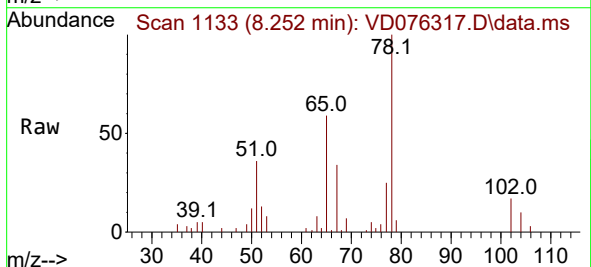
Acq: 02 Jun 2023 17:01

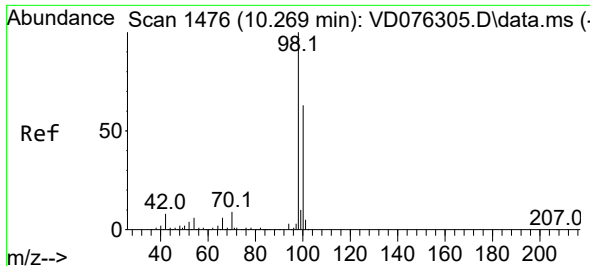
Tgt Ion: 78 Resp: 45681

Ion Ratio Lower Upper

78 100

77 25.2 19.4 29.0

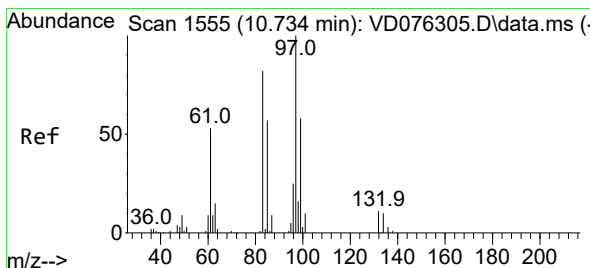
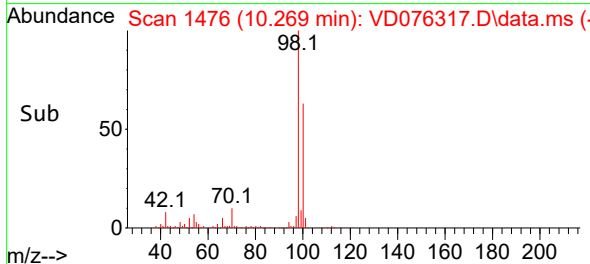
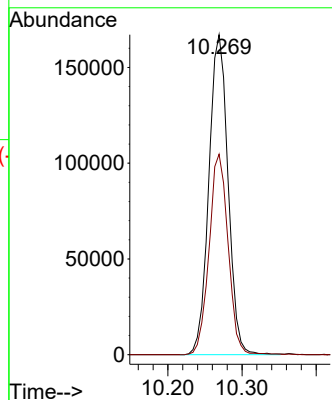
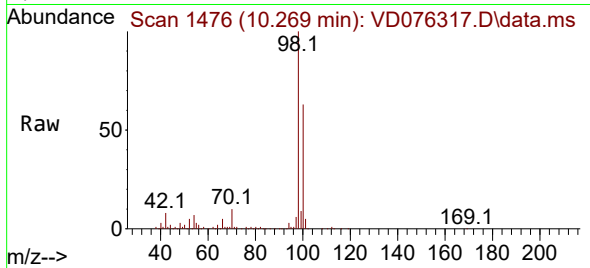




#50
Toluene-d8
Concen: 41.933 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

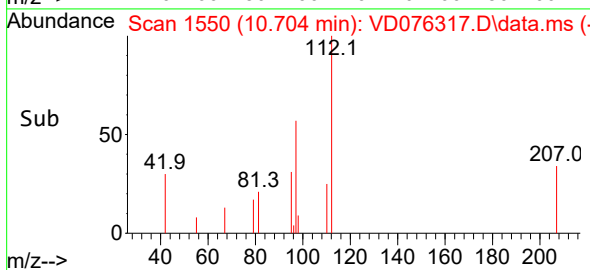
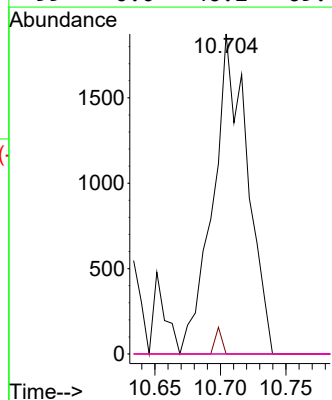
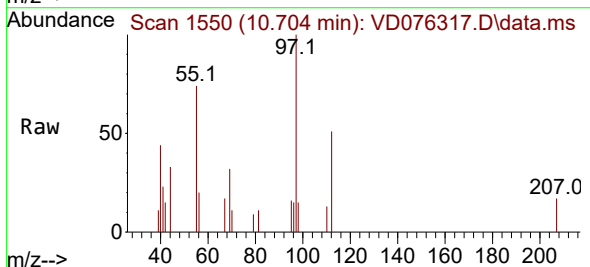
Instrument :
MSVOA_D
ClientSampleId :
TP-13-0A

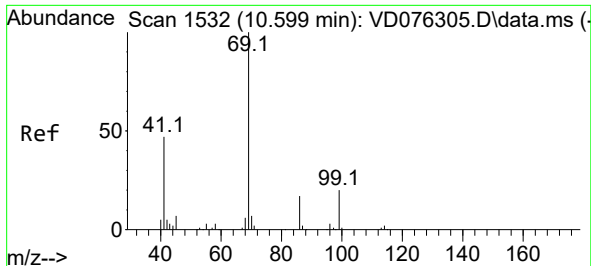
Tgt Ion: 98 Resp: 299943
Ion Ratio Lower Upper
98 100
100 62.2 50.3 75.5



#55
1,1,2-Trichloroethane
Concen: 2.078 ug/l
RT: 10.704 min Scan# 1550
Delta R.T. -0.030 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

Tgt Ion: 97 Resp: 3412
Ion Ratio Lower Upper
97 100
83 0.0 65.8 98.6#
85 0.0 45.7 68.5#
99 0.0 46.2 69.4#

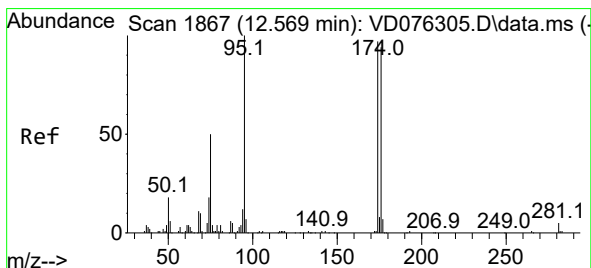
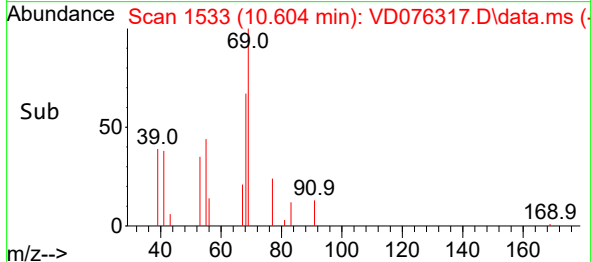
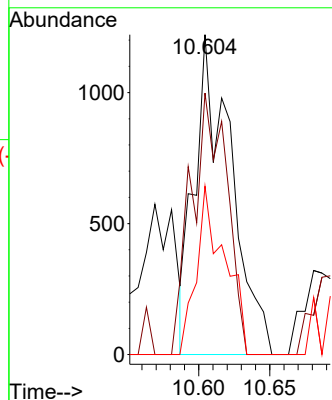
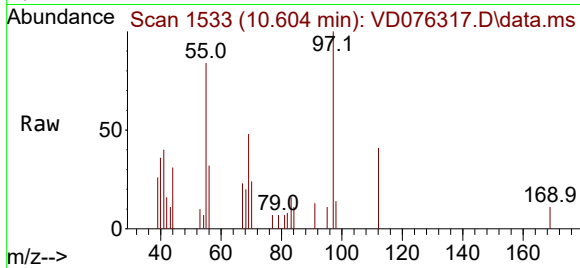




#56
Ethyl methacrylate
Concen: 3.823 ug/l
RT: 10.604 min Scan# 1533
Delta R.T. 0.005 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

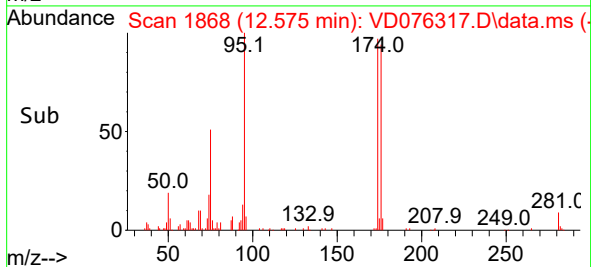
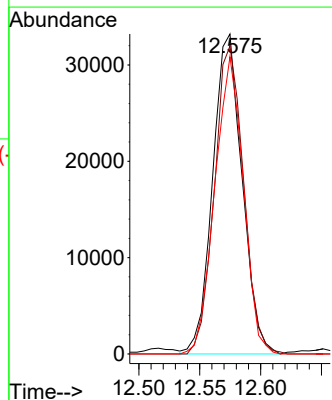
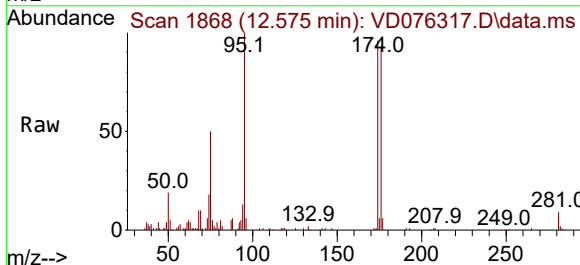
Instrument :
MSVOA_D
ClientSampleId :
TP-13-0A

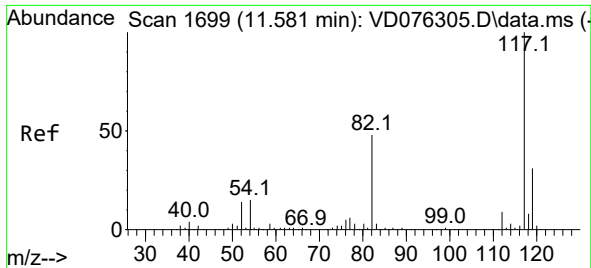
Tgt Ion: 69 Resp: 2169
Ion Ratio Lower Upper
69 100
41 80.2 39.1 58.7#
39 41.1 20.0 30.0#



#62
4-Bromofluorobenzene
Concen: 27.985 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

Tgt Ion: 95 Resp: 55832
Ion Ratio Lower Upper
95 100
174 95.0 0.0 201.8
176 90.1 0.0 191.8

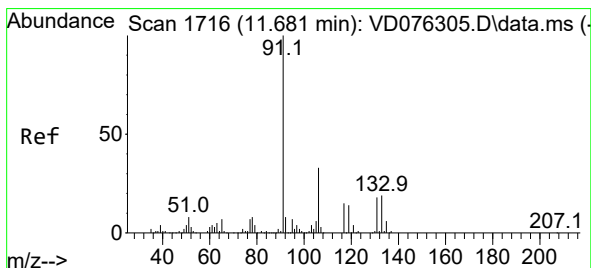
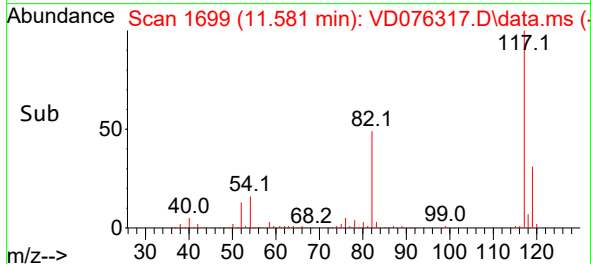
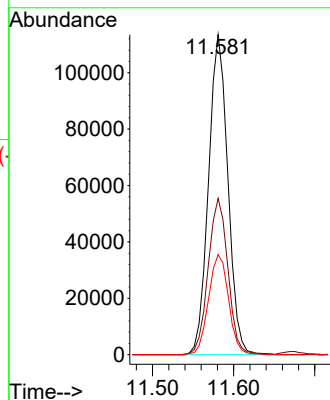
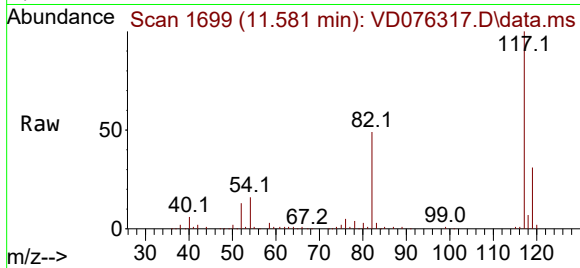




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

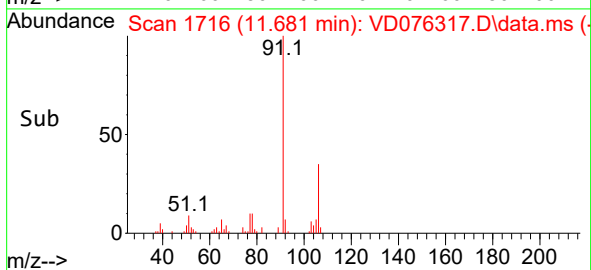
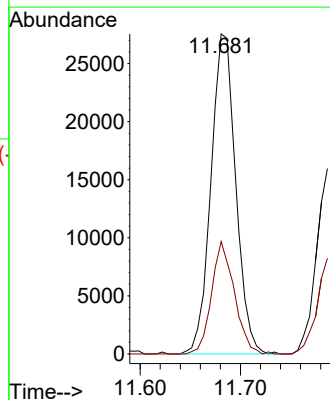
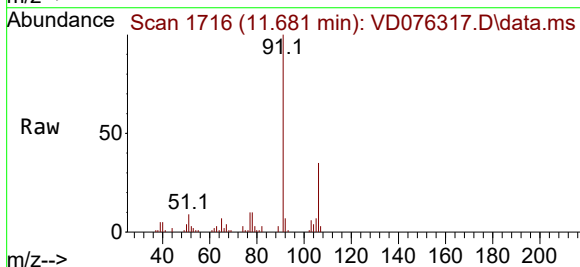
Instrument :
MSVOA_D
ClientSampleId :
TP-13-0A

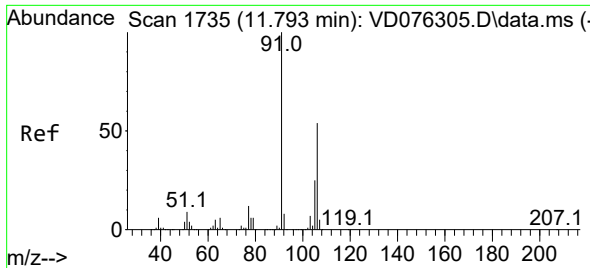
Tgt Ion:117 Resp: 187803
Ion Ratio Lower Upper
117 100
82 48.8 38.3 57.5
119 31.3 25.0 37.4



#67
Ethyl Benzene
Concen: 7.336 ug/l
RT: 11.681 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

Tgt Ion: 91 Resp: 47322
Ion Ratio Lower Upper
91 100
106 35.1 26.5 39.7

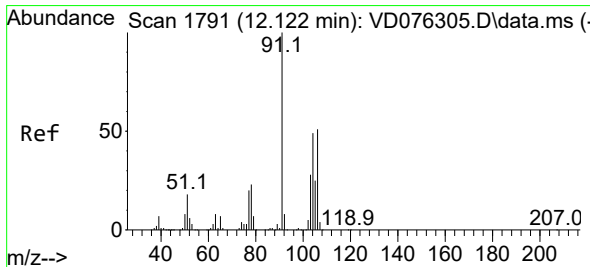
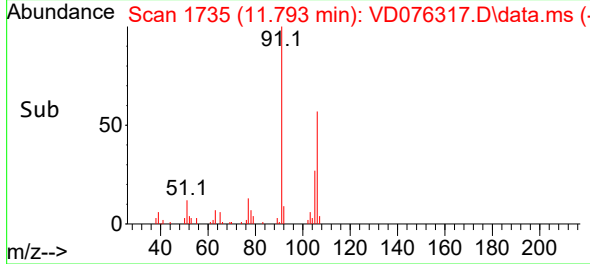
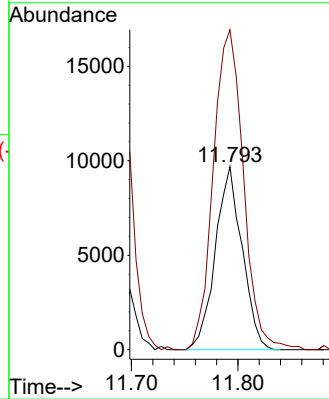
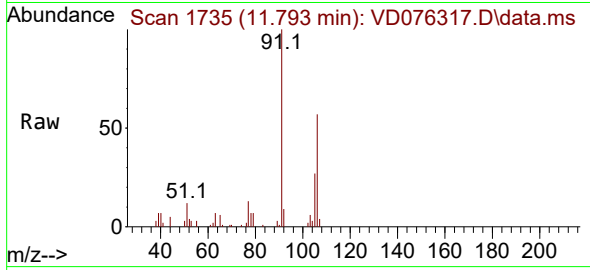




#68
m/p-Xylenes
Concen: 6.349 ug/l
RT: 11.793 min Scan# 1735
Delta R.T. -0.000 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

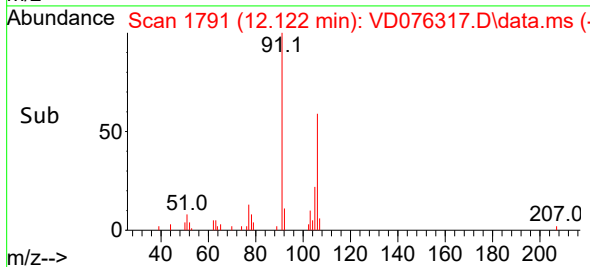
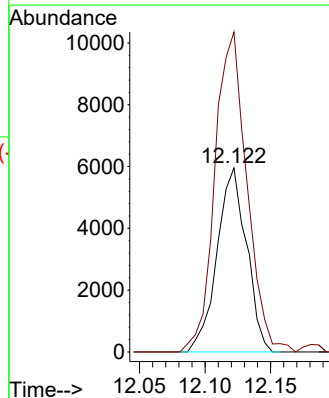
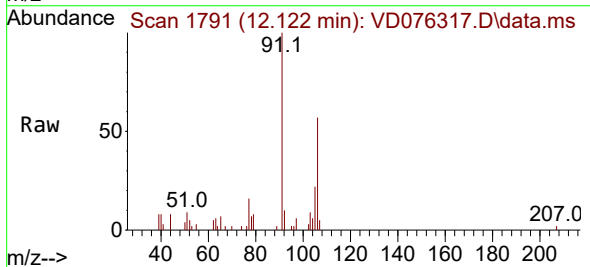
Instrument :
MSVOA_D
ClientSampleId :
TP-13-0A

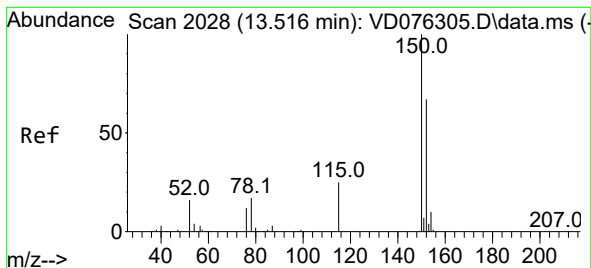
Tgt Ion:106 Resp: 16941
Ion Ratio Lower Upper
106 100
91 196.2 147.0 220.6



#69
o-Xylene
Concen: 3.804 ug/l
RT: 12.122 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

Tgt Ion:106 Resp: 9314
Ion Ratio Lower Upper
106 100
91 188.4 97.9 293.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2028

Delta R.T. -0.000 min

Lab File: VD076317.D

Acq: 02 Jun 2023 17:01

Instrument :

MSVOA_D

ClientSampleId :

TP-13-0A

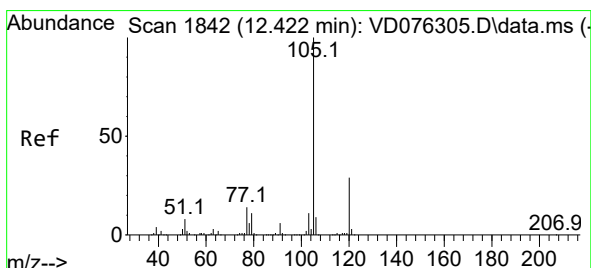
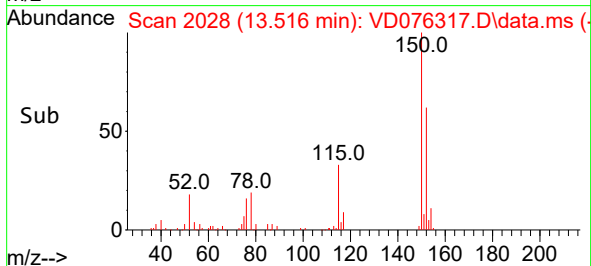
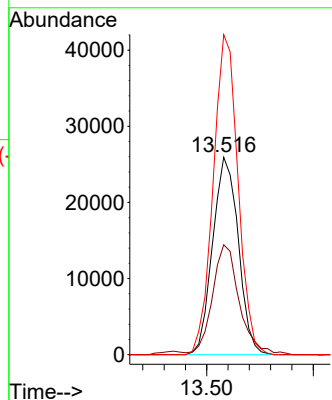
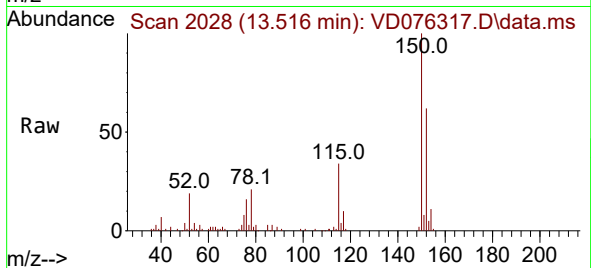
Tgt Ion:152 Resp: 43350

Ion Ratio Lower Upper

152 100

115 58.4 27.1 81.3

150 156.5 0.0 353.6



#73

Isopropylbenzene

Concen: 29.045 ug/l

RT: 12.422 min Scan# 1842

Delta R.T. -0.000 min

Lab File: VD076317.D

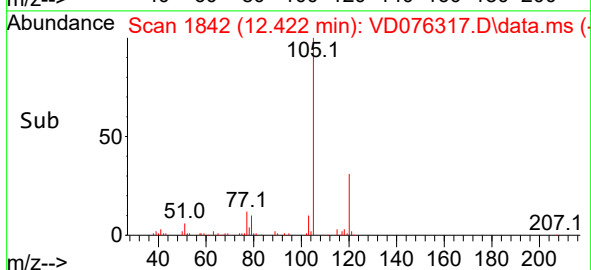
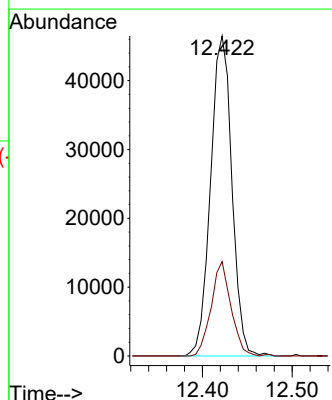
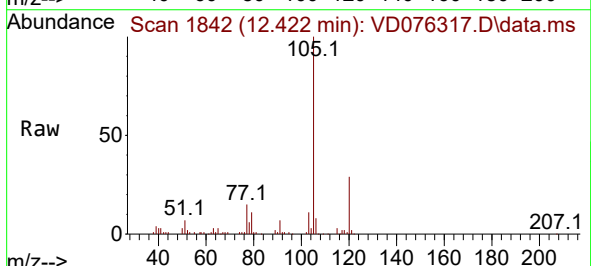
Acq: 02 Jun 2023 17:01

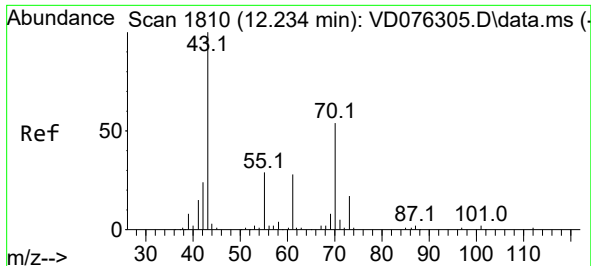
Tgt Ion:105 Resp: 76691

Ion Ratio Lower Upper

105 100

120 27.3 14.3 42.9

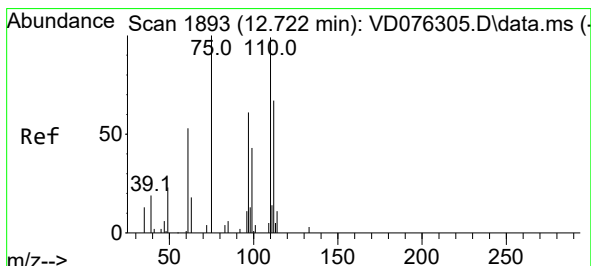
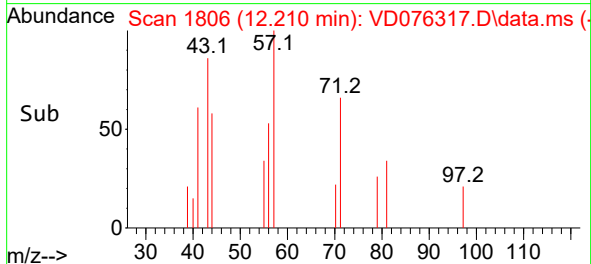
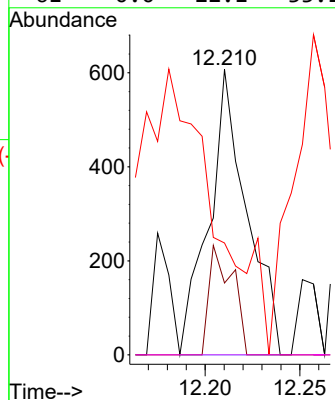
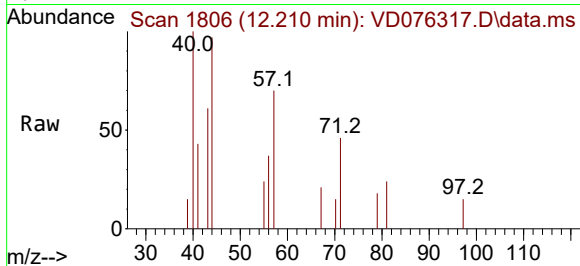




#74
N-amy1 acetate
Concen: 1.638 ug/l
RT: 12.210 min Scan# 1806
Delta R.T. -0.024 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

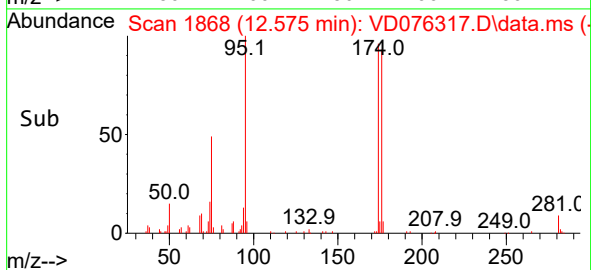
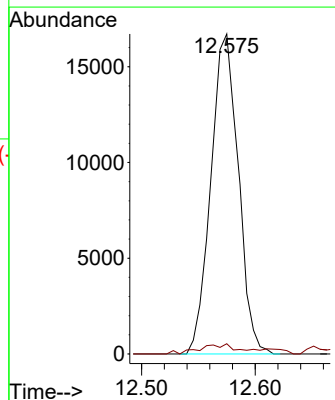
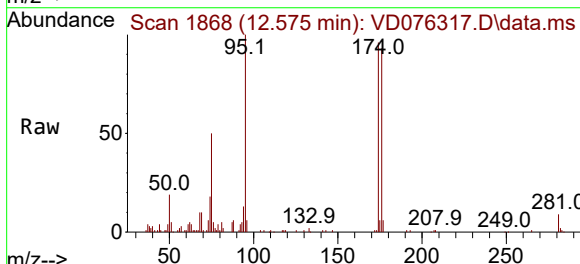
Instrument :
MSVOA_D
ClientSampleId :
TP-13-0A

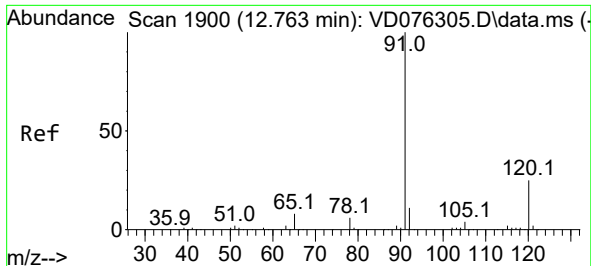
Tgt Ion: 43	Resp: 845
Ion Ratio	Lower Upper
43	100
70	23.7 45.0 67.4#
55	0.0 23.8 35.6#
61	0.0 22.1 33.1#



#76
1,2,3-Trichloropropane
Concen: 71.932 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.147 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

Tgt Ion: 75	Resp: 28053
Ion Ratio	Lower Upper
75	100
77	4.0 0.0 0.0#

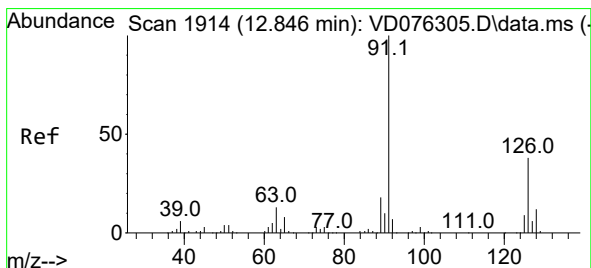
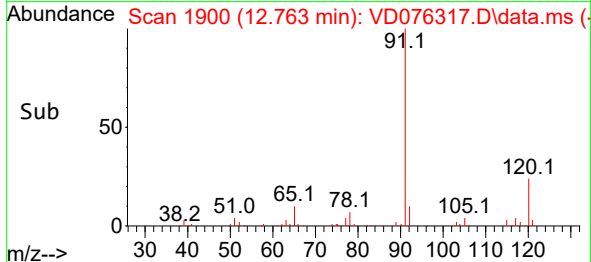
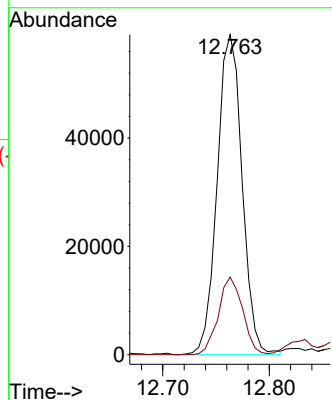
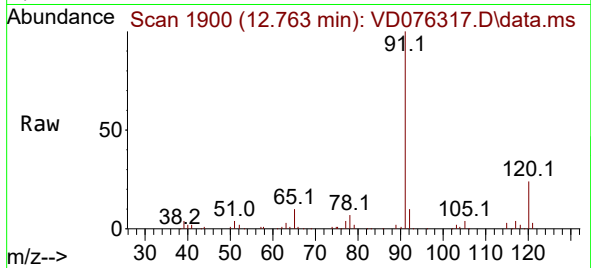




#78
n-propylbenzene
Concen: 29.137 ug/l
RT: 12.763 min Scan# 1900
Delta R.T. -0.000 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

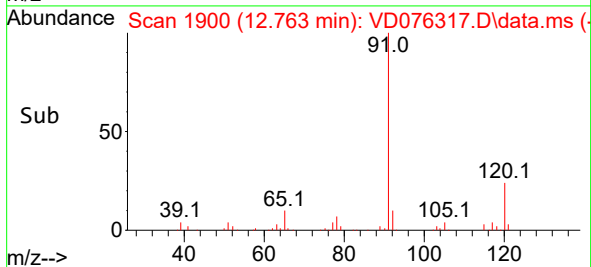
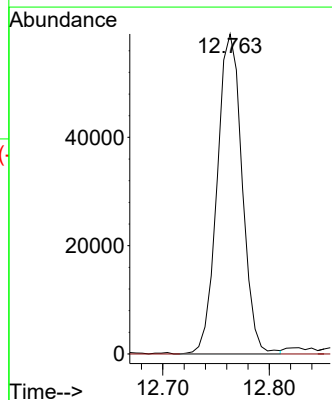
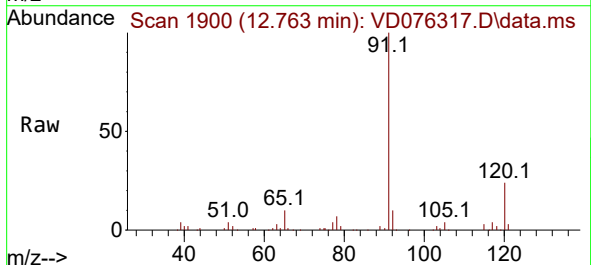
Instrument :
MSVOA_D
ClientSampleId :
TP-13-0A

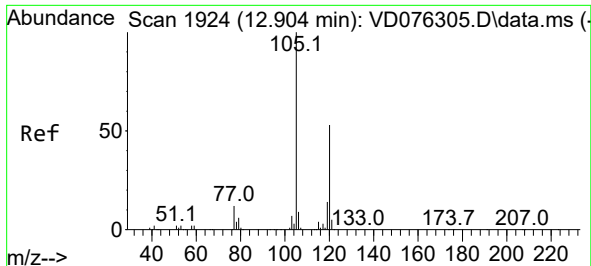
Tgt Ion: 91 Resp: 96041
Ion Ratio Lower Upper
91 100
120 23.6 12.4 37.2



#79
2-Chlorotoluene
Concen: 52.236 ug/l
RT: 12.763 min Scan# 1900
Delta R.T. -0.082 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

Tgt Ion: 91 Resp: 96041
Ion Ratio Lower Upper
91 100
126 0.0 19.4 58.1#

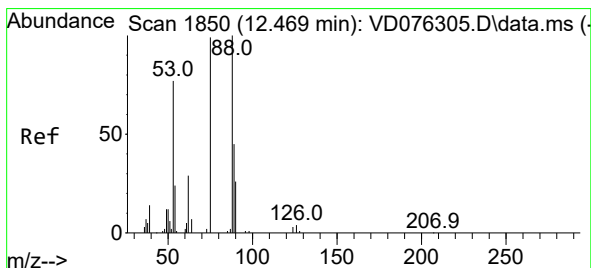
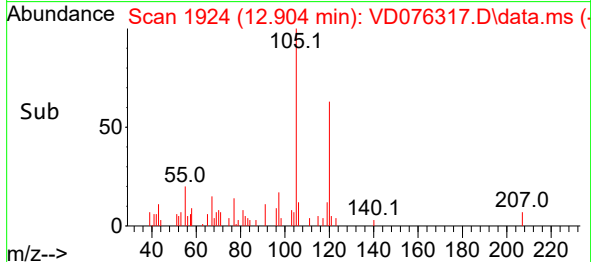
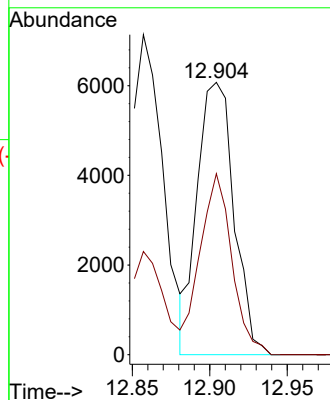
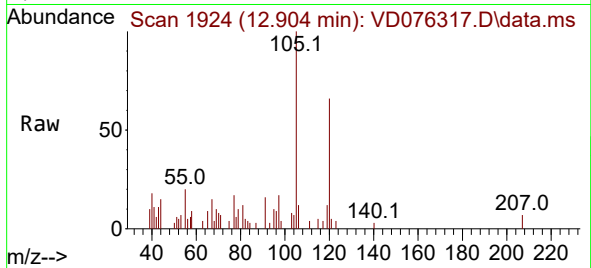




#80
 1,3,5-Trimethylbenzene
 Concen: 4.559 ug/l
 RT: 12.904 min Scan# 1924
 Delta R.T. -0.000 min
 Lab File: VD076317.D
 Acq: 02 Jun 2023 17:01

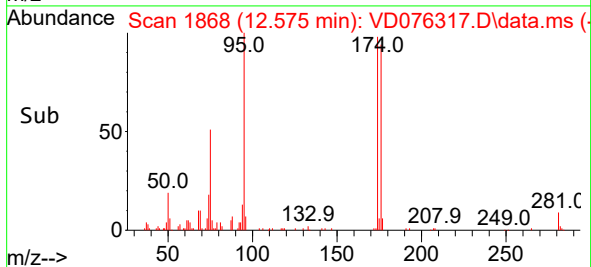
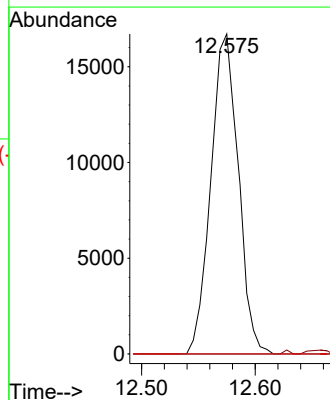
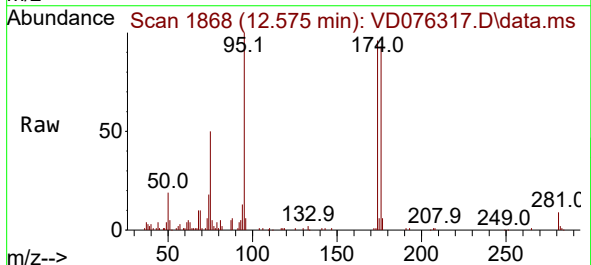
Instrument :
 MSVOA_D
 ClientSampleId :
 TP-13-0A

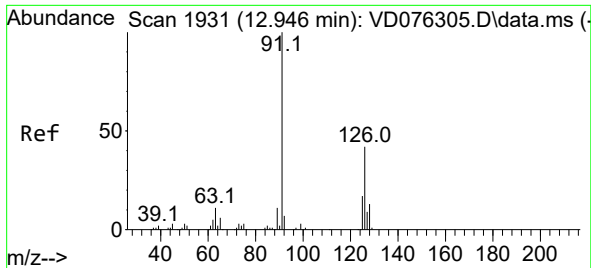
Tgt Ion:105 Resp: 10020
 Ion Ratio Lower Upper
 105 100
 120 57.6 26.4 79.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 165.006 ug/l
 RT: 12.575 min Scan# 1868
 Delta R.T. 0.106 min
 Lab File: VD076317.D
 Acq: 02 Jun 2023 17:01

Tgt Ion: 75 Resp: 28053
 Ion Ratio Lower Upper
 75 100
 53 0.0 63.0 94.4#
 89 0.0 37.9 56.9#

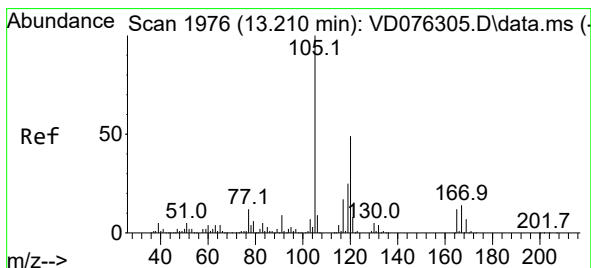
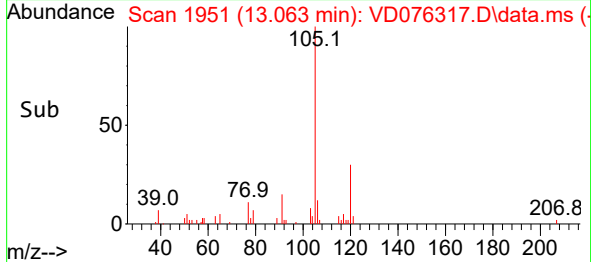
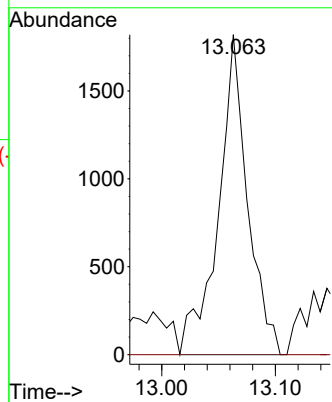
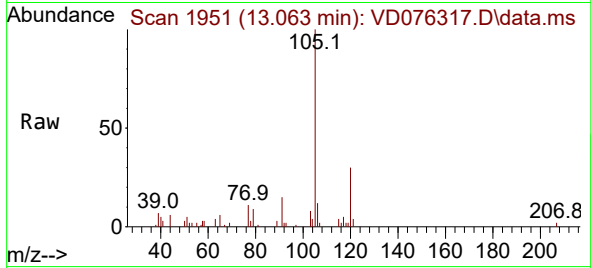




#82
4-Chlorotoluene
Concen: 1.647 ug/l
RT: 13.063 min Scan# 1931
Delta R.T. 0.117 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

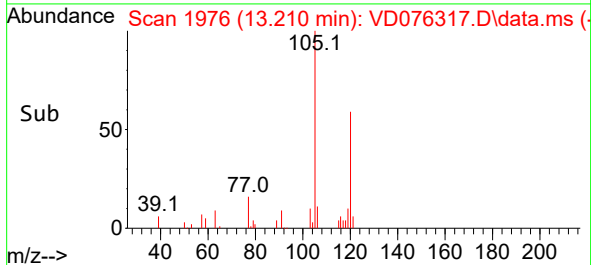
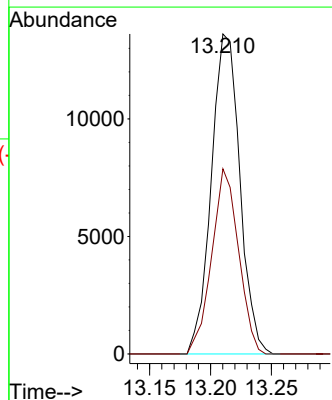
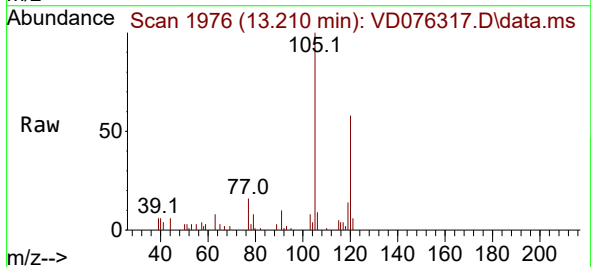
Instrument :
MSVOA_D
ClientSampleId :
TP-13-0A

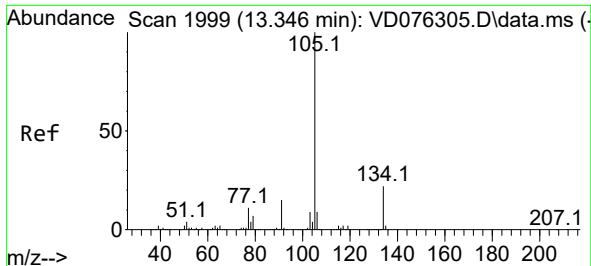
Tgt Ion: 91 Resp: 3246
Ion Ratio Lower Upper
91 100
126 0.0 19.4 58.4#



#84
1,2,4-Trimethylbenzene
Concen: 9.905 ug/l
RT: 13.210 min Scan# 1976
Delta R.T. -0.000 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

Tgt Ion: 105 Resp: 22219
Ion Ratio Lower Upper
105 100
120 54.4 24.3 72.9

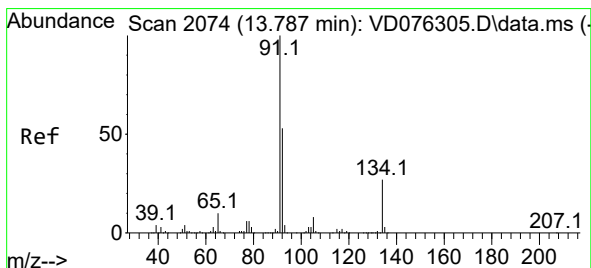
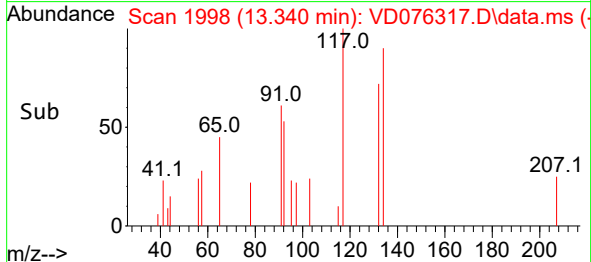
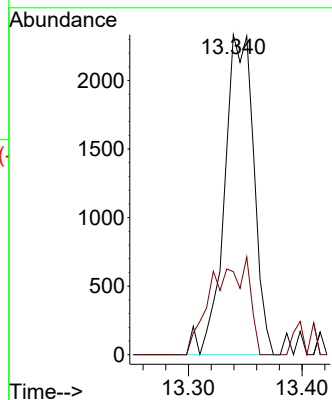
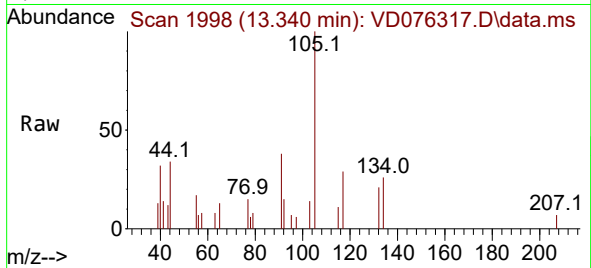




#85
 sec-Butylbenzene
 Concen: 1.476 ug/l
 RT: 13.340 min Scan# 1999
 Delta R.T. -0.006 min
 Lab File: VD076317.D
 Acq: 02 Jun 2023 17:01

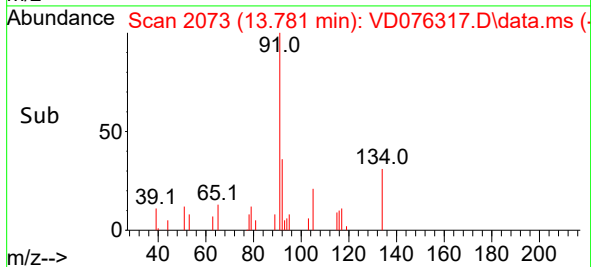
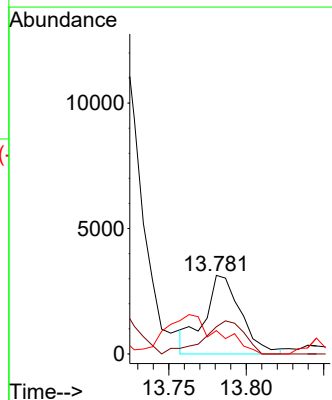
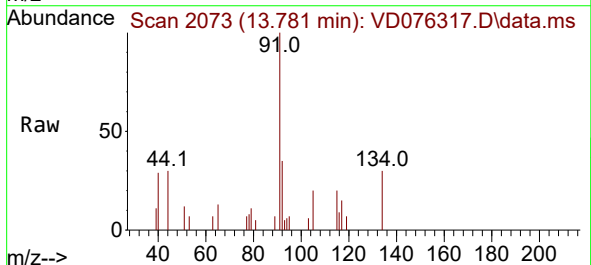
Instrument :
 MSVOA_D
 ClientSampleId :
 TP-13-0A

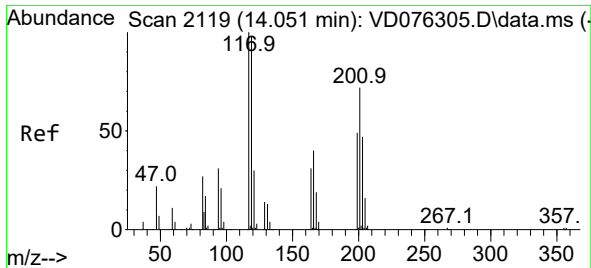
Tgt Ion:105 Resp: 4189
 Ion Ratio Lower Upper
 105 100
 134 38.2 10.9 32.9#



#89
 n-Butylbenzene
 Concen: 2.357 ug/l
 RT: 13.781 min Scan# 2073
 Delta R.T. -0.006 min
 Lab File: VD076317.D
 Acq: 02 Jun 2023 17:01

Tgt Ion: 91 Resp: 5138
 Ion Ratio Lower Upper
 91 100
 92 46.4 26.5 79.5
 134 0.0 13.8 41.3#

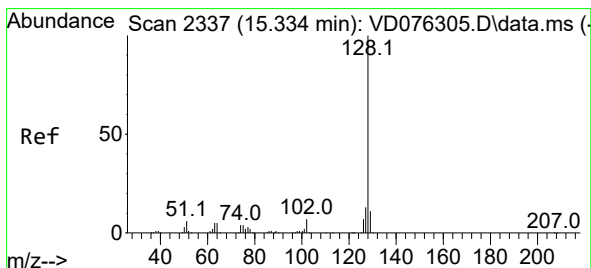
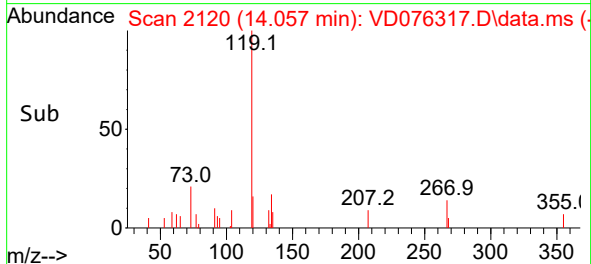
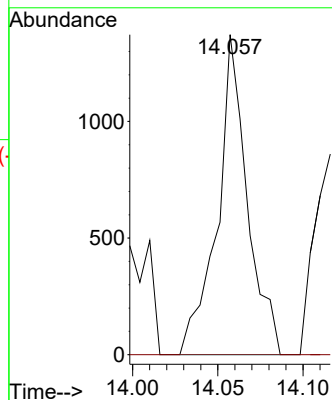
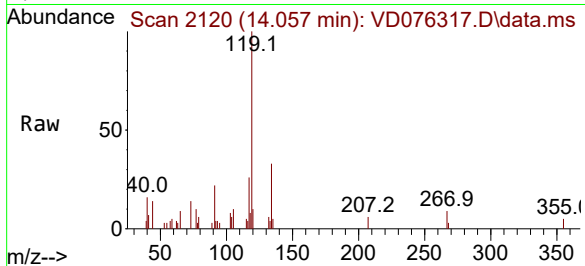




#90
Hexachloroethane
Concen: 3.492 ug/l
RT: 14.057 min Scan# 2119
Delta R.T. 0.006 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

Instrument :
MSVOA_D
ClientSampleId :
TP-13-0A

Tgt Ion:117 Resp: 1676
Ion Ratio Lower Upper
117 100
201 0.0 38.5 115.5#



#95
Naphthalene
Concen: 16.037 ug/l
RT: 15.328 min Scan# 2336
Delta R.T. -0.006 min
Lab File: VD076317.D
Acq: 02 Jun 2023 17:01

Tgt Ion:128 Resp: 21983
Ion Ratio Lower Upper
128 100
127 13.0 10.5 15.7
129 11.0 8.7 13.1

