

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD060223\
 Data File : VD076316.D
 Acq On : 02 Jun 2023 16:30
 Operator : KP/SY
 Sample : 03001-04
 Misc : 6.01G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP17-0A

Quant Time: Jun 03 02:24:21 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)

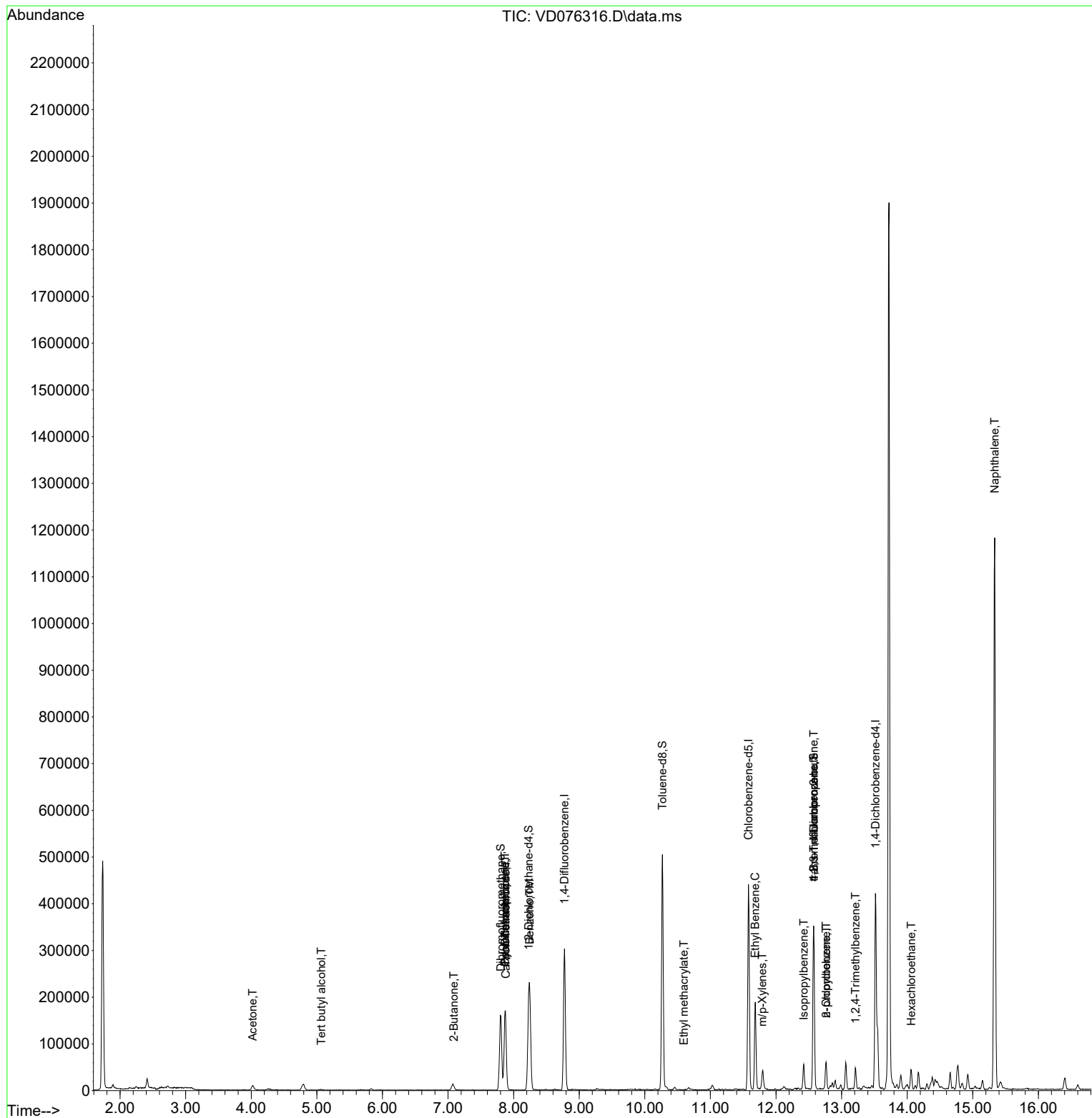
Internal Standards						
1) Pentafluorobenzene	7.869	168	145334	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	289850	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	272506	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	120102	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	94574	66.772	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 133.540%			
35) Dibromofluoromethane	7.805	113	119218	62.309	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 124.620%			
50) Toluene-d8	10.269	98	367149	49.769	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.540%			
62) 4-Bromofluorobenzene	12.575	95	111085	53.987	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 107.980%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.140	50	690	Below Cal	#	52
11) Tert butyl alcohol	5.069	59	2592	28.746	ug/l #	87
13) Acrolein	3.787	56	59	Below Cal	#	15
16) Acetone	4.022	43	15999	58.339	ug/l	98
20) Methylene Chloride	4.799	84	10376	Below Cal		96
25) 2-Butanone	7.087	43	3481	9.419	ug/l	97
31) Cyclohexane	7.869	56	3062	1.404	ug/l #	3
36) 1,1-Dichloropropene	7.869	75	10250	3.874	ug/l #	47
38) Carbon Tetrachloride	7.881	117	13403	5.882	ug/l #	14
40) Benzene	8.246	78	182140	21.688	ug/l	100
56) Ethyl methacrylate	10.593	69	704	3.074	ug/l #	44
67) Ethyl Benzene	11.681	91	136628	14.597	ug/l	99
68) m/p-Xylenes	11.793	106	11885	3.070	ug/l	91
73) Isopropylbenzene	12.422	105	30250	4.135	ug/l	98
76) 1,2,3-Trichloropropane	12.575	75	54578	50.512	ug/l #	100
78) n-propylbenzene	12.763	91	47855	5.240	ug/l	97
79) 2-Chlorotoluene	12.763	91	47855	9.395	ug/l #	36
81) trans-1,4-Dichloro-2-b...	12.575	75	54578	115.872	ug/l #	17
84) 1,2,4-Trimethylbenzene	13.210	105	24099	3.877	ug/l	100
90) Hexachloroethane	14.063	117	4371	3.287	ug/l #	11
95) Naphthalene	15.334	128	1037854	213.462	ug/l	99

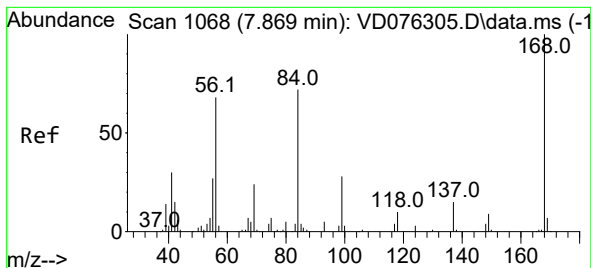
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jun 02 05:50:45 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.869 min Scan# 1

Delta R.T. 0.000 min

Lab File: VD076316.D

Acq: 02 Jun 2023 16:30

Instrument :

MSVOA_D

ClientSampleId :

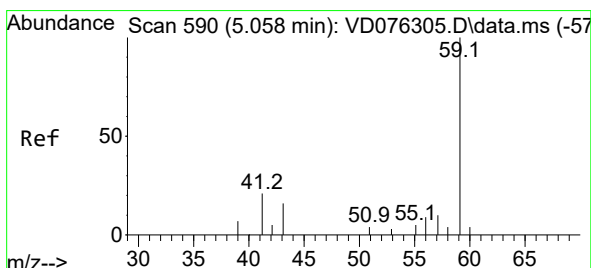
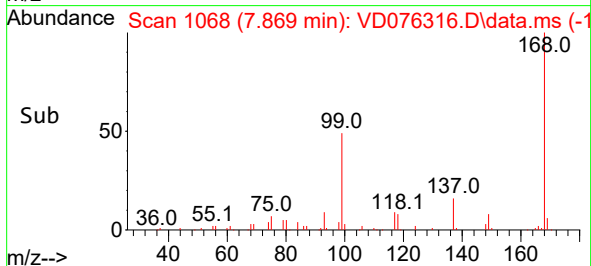
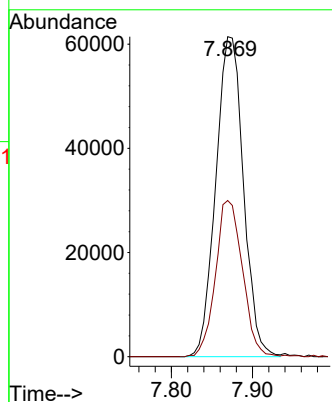
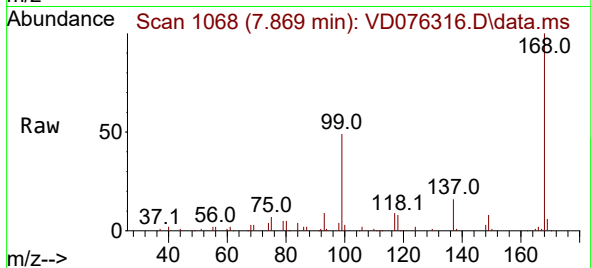
TP17-0A

Tgt Ion:168 Resp: 145334

Ion Ratio Lower Upper

168 100

99 48.8 36.7 55.1



#11

Tert butyl alcohol

Concen: 28.746 ug/l

RT: 5.069 min Scan# 592

Delta R.T. 0.012 min

Lab File: VD076316.D

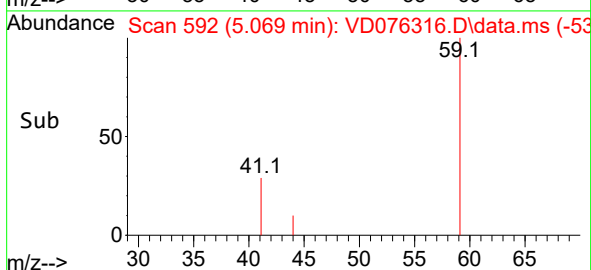
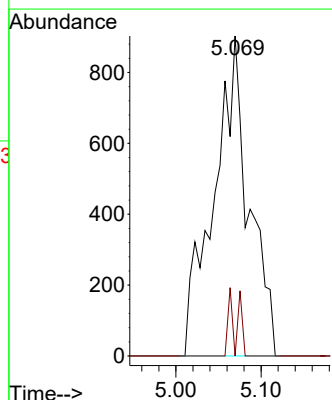
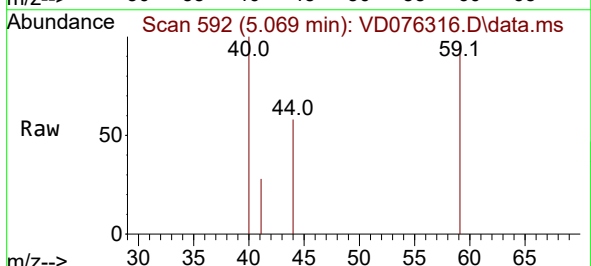
Acq: 02 Jun 2023 16:30

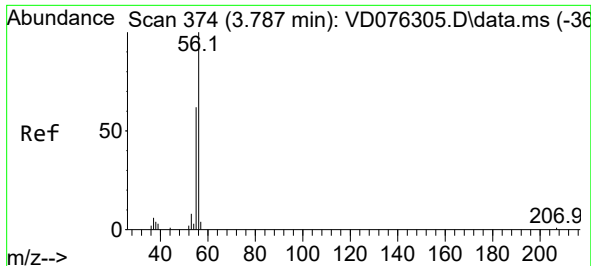
Tgt Ion: 59 Resp: 2592

Ion Ratio Lower Upper

59 100

57 5.1 7.8 11.8#





#13

Acrolein

Concen: Below Cal

RT: 3.787 min Scan# 31

Delta R.T. 0.000 min

Lab File: VD076316.D

Acq: 02 Jun 2023 16:30

Instrument :

MSVOA_D

ClientSampleId :

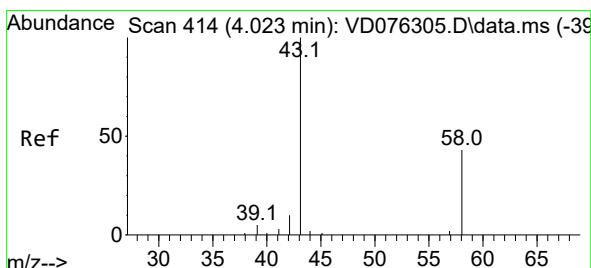
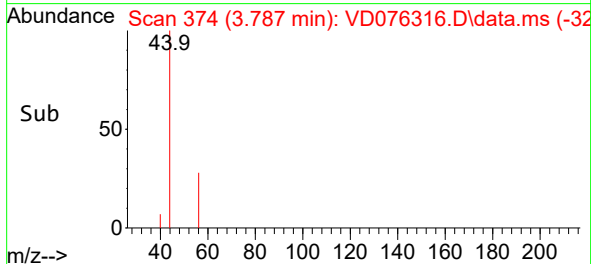
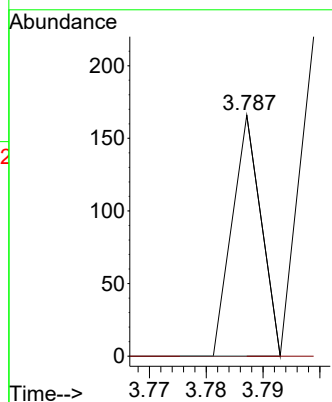
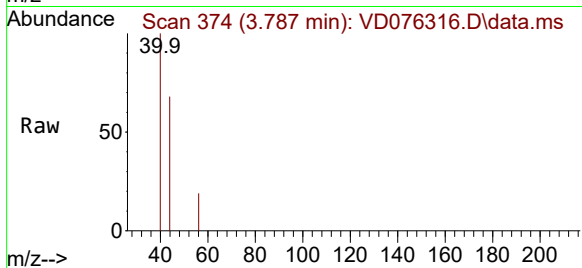
TP17-0A

Tgt Ion: 56 Resp: 59

Ion Ratio Lower Upper

56 100

55 0.0 55.1 82.7#



#16

Acetone

Concen: 58.339 ug/l

RT: 4.022 min Scan# 414

Delta R.T. -0.001 min

Lab File: VD076316.D

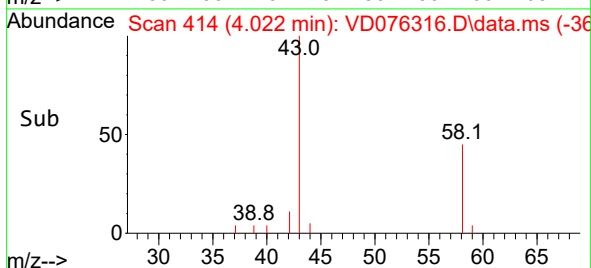
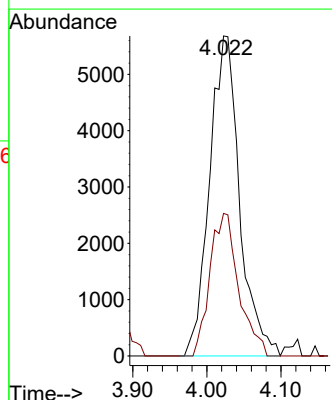
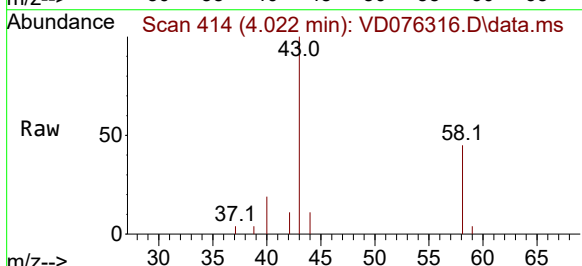
Acq: 02 Jun 2023 16:30

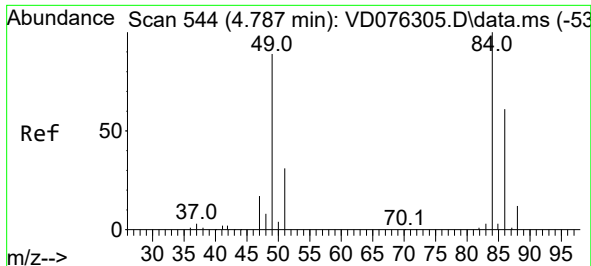
Tgt Ion: 43 Resp: 15999

Ion Ratio Lower Upper

43 100

58 44.6 34.7 52.1



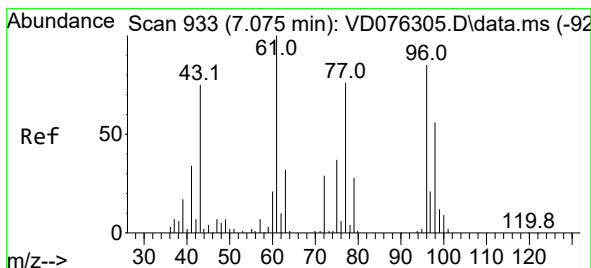
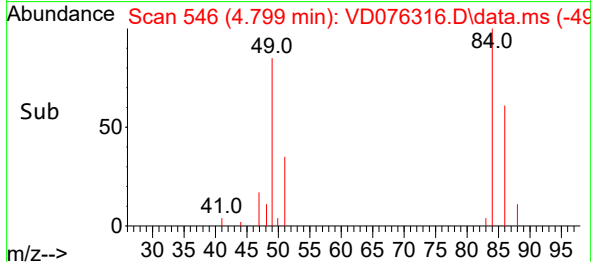
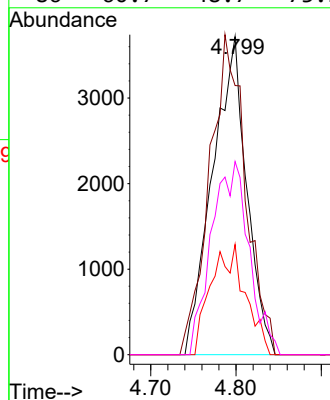
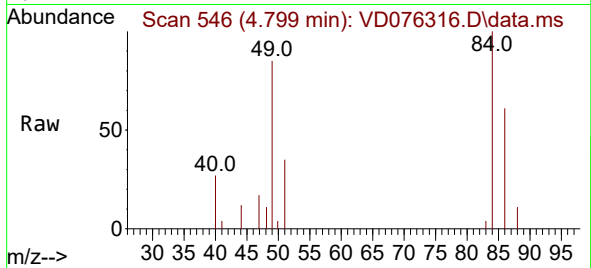


#20
Methylene Chloride
Concen: Below Cal
RT: 4.799 min Scan# 544
Delta R.T. 0.012 min
Lab File: VD076316.D
Acq: 02 Jun 2023 16:30

Instrument :
MSVOA_D
ClientSampleId :
TP17-0A

Tgt Ion: 84 Resp: 10376

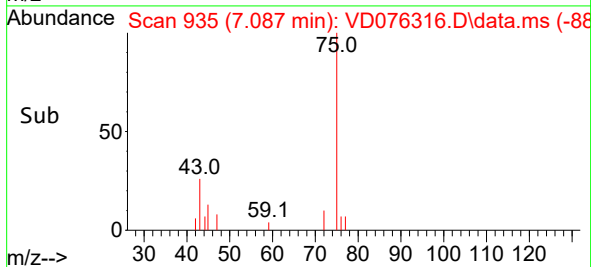
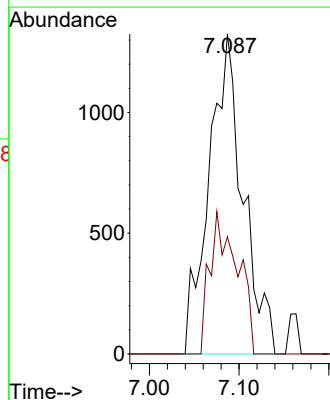
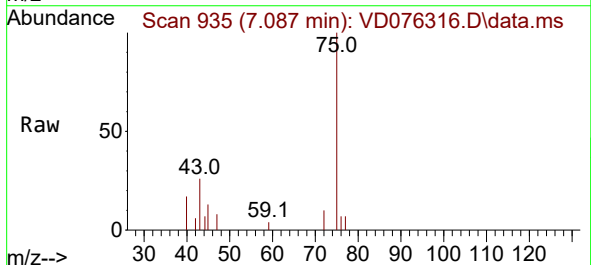
Ion	Ratio	Lower	Upper
84	100		
49	84.6	71.4	107.2
51	34.7	24.5	36.7
86	60.7	48.7	73.1

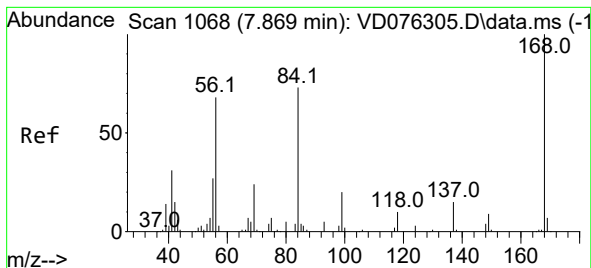


#25
2-Butanone
Concen: 9.419 ug/l
RT: 7.087 min Scan# 935
Delta R.T. 0.012 min
Lab File: VD076316.D
Acq: 02 Jun 2023 16:30

Tgt Ion: 43 Resp: 3481

Ion	Ratio	Lower	Upper
43	100		
72	36.6	30.7	46.1





#31

Cyclohexane

Concen: 1.404 ug/l

RT: 7.869 min Scan# 110

Delta R.T. -0.000 min

Lab File: VD076316.D

Acq: 02 Jun 2023 16:30

Instrument :

MSVOA_D

ClientSampleId :

TP17-0A

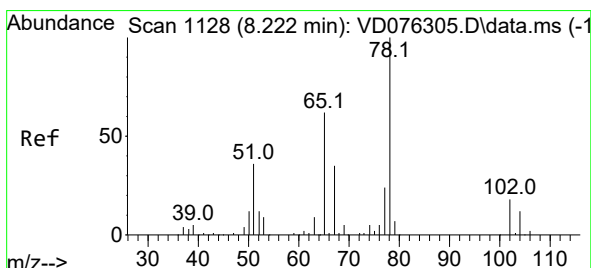
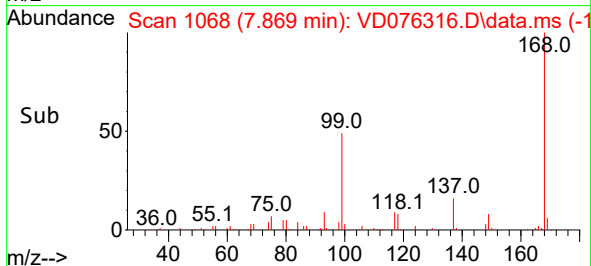
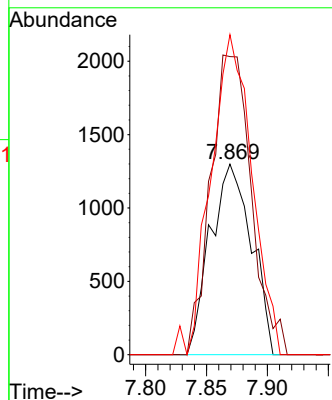
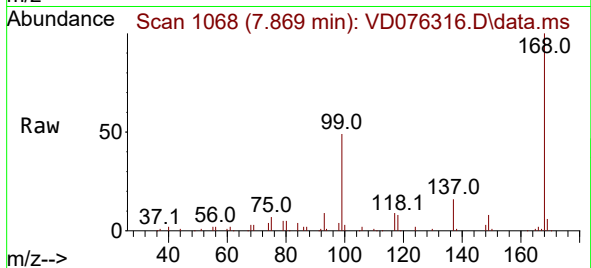
Tgt Ion: 56 Resp: 3062

Ion Ratio Lower Upper

56 100

69 156.4 28.6 43.0#

84 167.9 84.8 127.2#



#33

1,2-Dichloroethane-d4

Concen: 66.772 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. 0.006 min

Lab File: VD076316.D

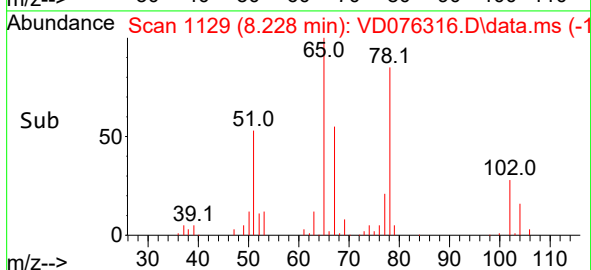
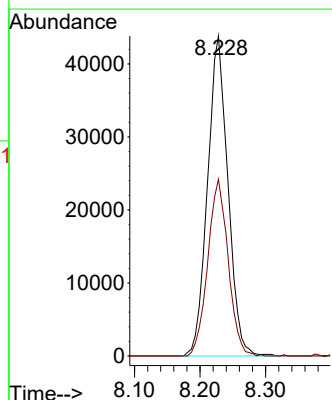
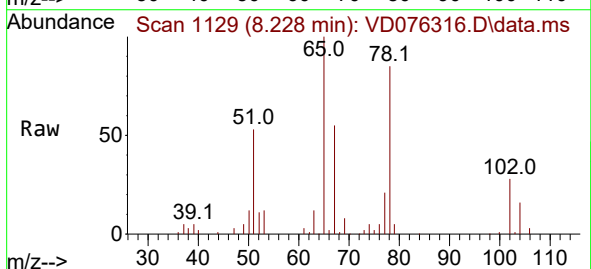
Acq: 02 Jun 2023 16:30

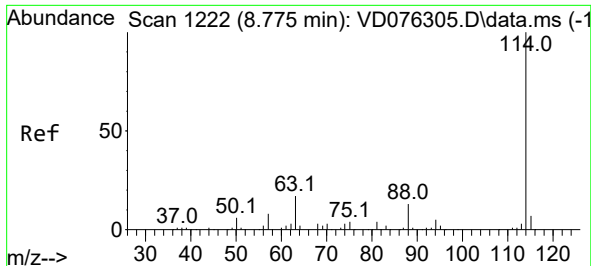
Tgt Ion: 65 Resp: 94574

Ion Ratio Lower Upper

65 100

67 55.4 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 11

Delta R.T. 0.000 min

Lab File: VD076316.D

Acq: 02 Jun 2023 16:30

Instrument :

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ClientSampleId :

TP17-0A

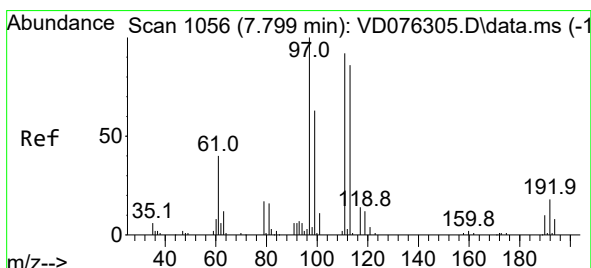
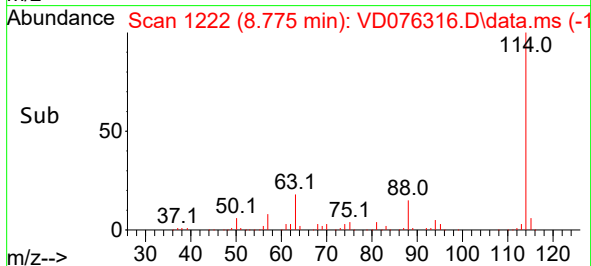
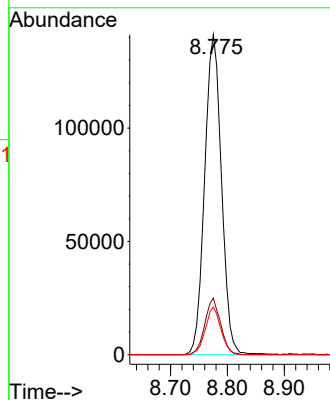
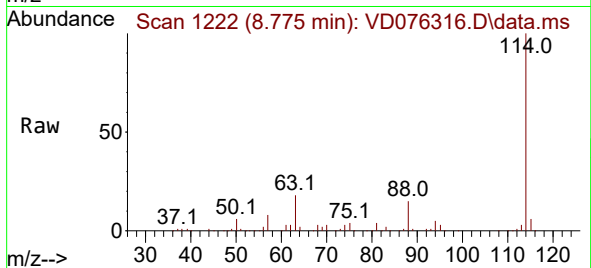
Tgt Ion:114 Resp: 289850

Ion Ratio Lower Upper

114 100

63 17.7 0.0 33.4

88 14.9 0.0 26.2



#35

Dibromofluoromethane

Concen: 62.309 ug/l

RT: 7.805 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VD076316.D

Acq: 02 Jun 2023 16:30

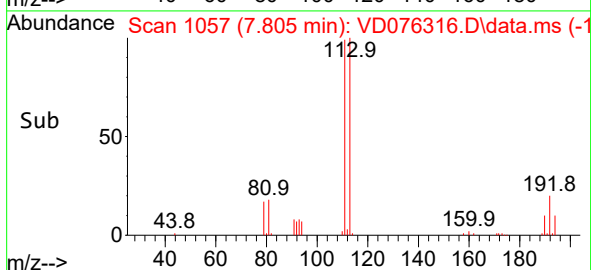
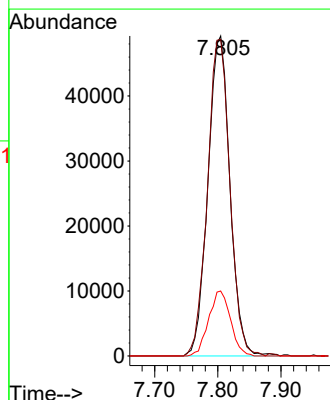
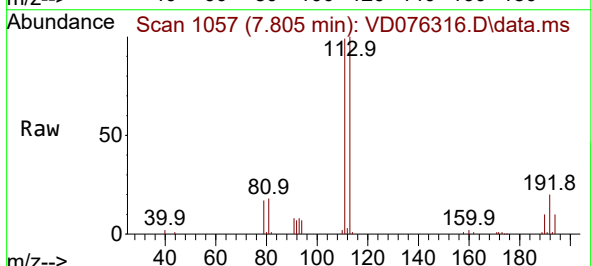
Tgt Ion:113 Resp: 119218

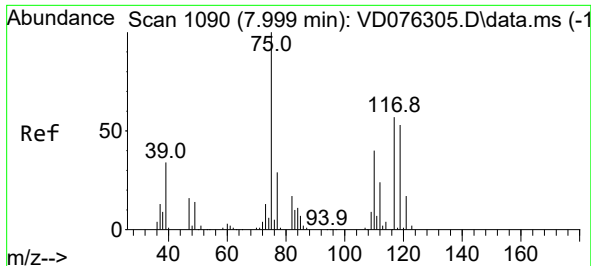
Ion Ratio Lower Upper

113 100

111 100.7 84.7 127.1

192 20.2 16.8 25.2





#36

1,1-Dichloropropene

Concen: 3.874 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.129 min

Lab File: VD076316.D

Acq: 02 Jun 2023 16:30

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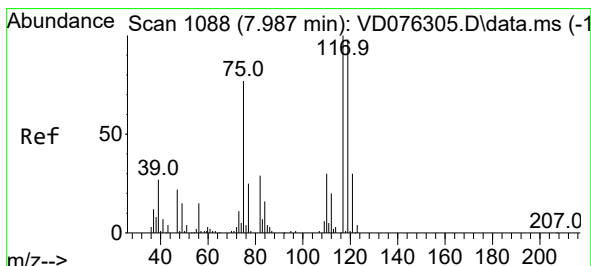
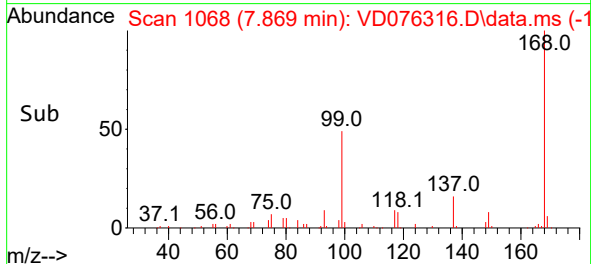
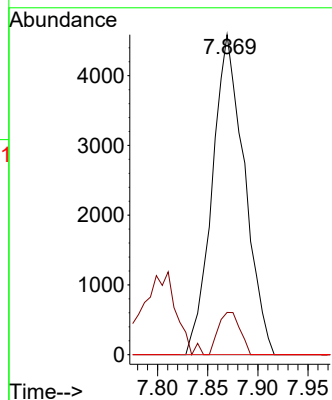
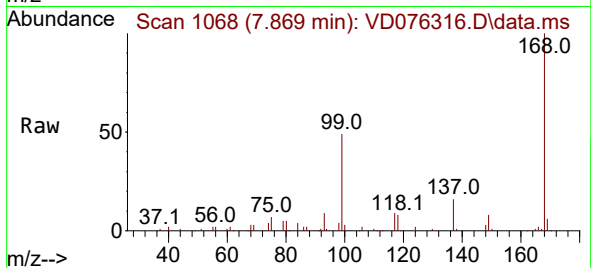
Tgt Ion: 75 Resp: 10250

Ion Ratio Lower Upper

75 100

110 8.9 19.9 59.6#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 5.882 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.106 min

Lab File: VD076316.D

Acq: 02 Jun 2023 16:30

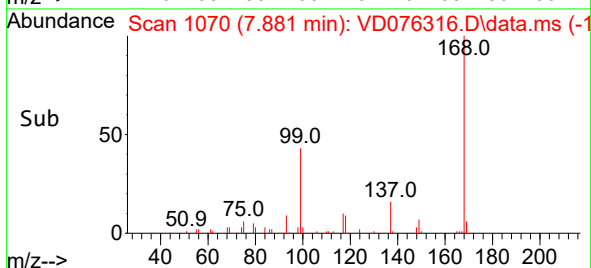
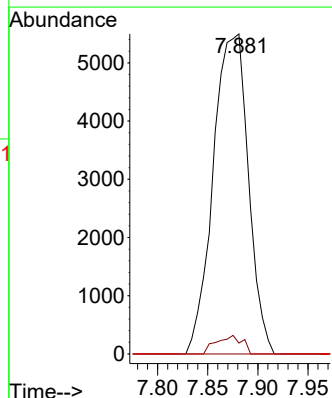
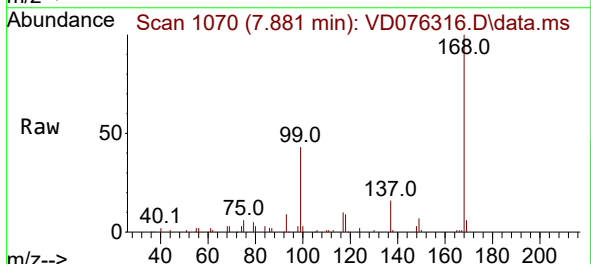
Tgt Ion: 117 Resp: 13403

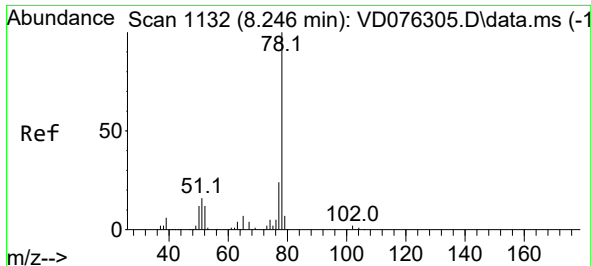
Ion Ratio Lower Upper

117 100

119 3.4 78.0 117.0#

121 0.0 24.2 36.2#

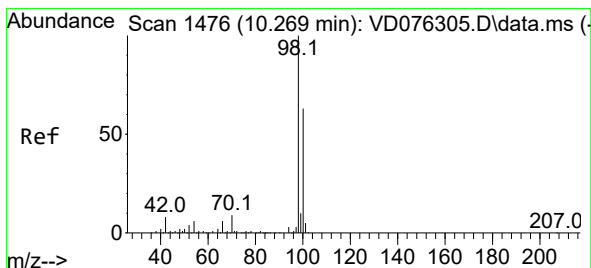
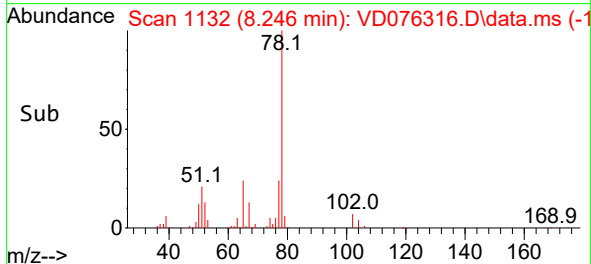
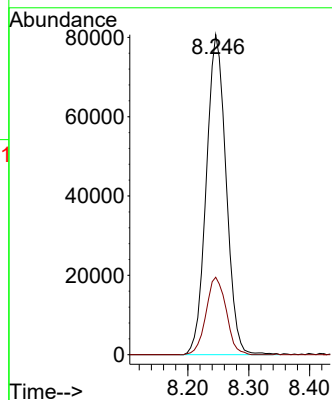
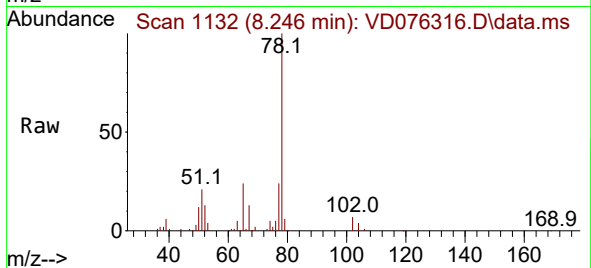




#40
Benzene
Concen: 21.688 ug/l
RT: 8.246 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VD076316.D
Acq: 02 Jun 2023 16:30

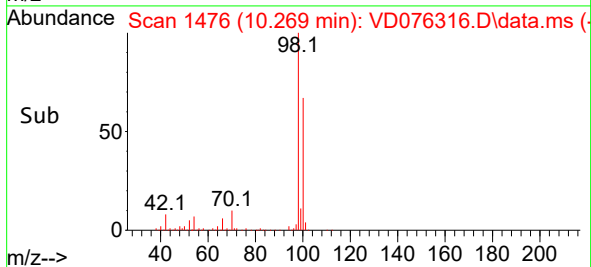
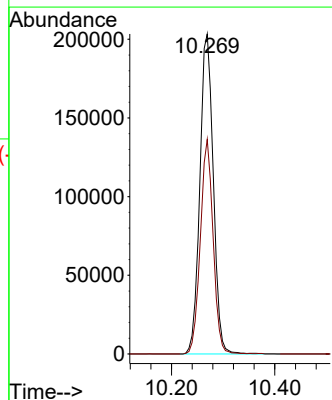
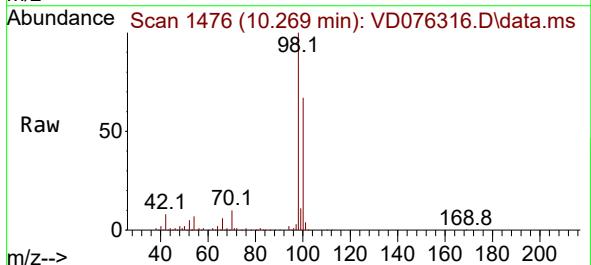
Instrument :
MSVOA_D
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TP17-0A

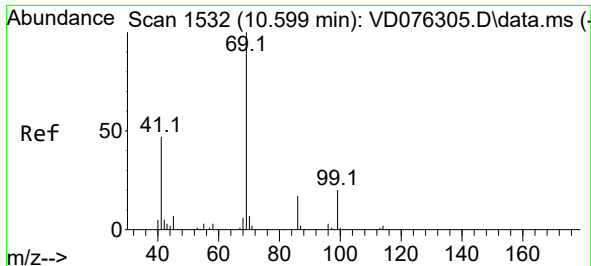
Tgt Ion: 78 Resp: 182140
Ion Ratio Lower Upper
78 100
77 24.2 19.4 29.0



#50
Toluene-d8
Concen: 49.769 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VD076316.D
Acq: 02 Jun 2023 16:30

Tgt Ion: 98 Resp: 367149
Ion Ratio Lower Upper
98 100
100 63.7 50.3 75.5

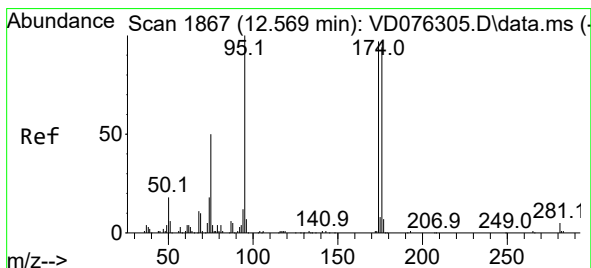
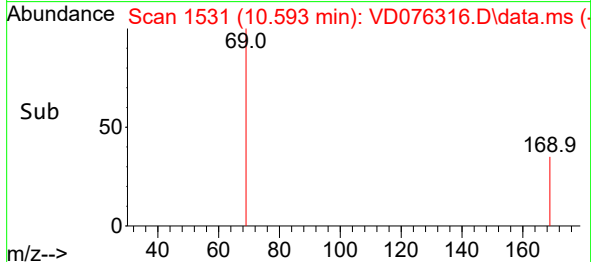
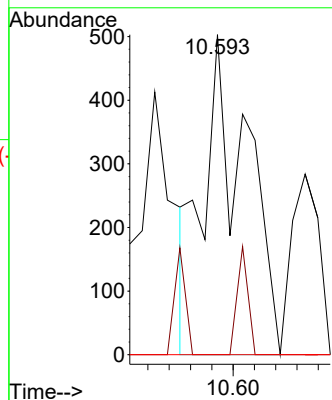
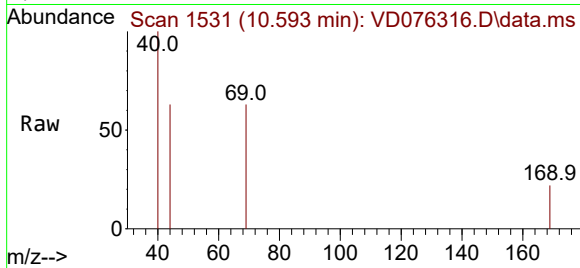




#56
Ethyl methacrylate
Concen: 3.074 ug/l
RT: 10.593 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD076316.D
Acq: 02 Jun 2023 16:30

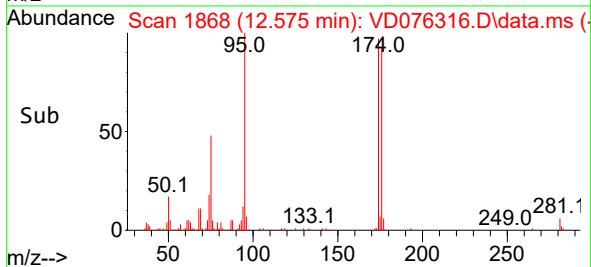
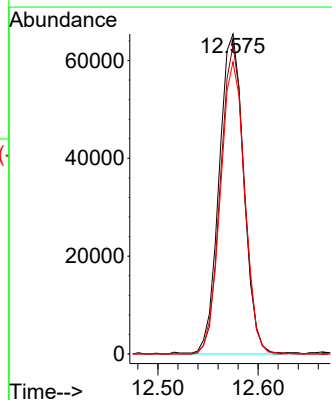
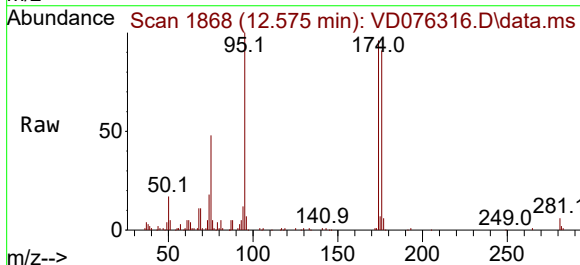
Instrument :
MSVOA_D
ClientSampleId :
TP17-0A

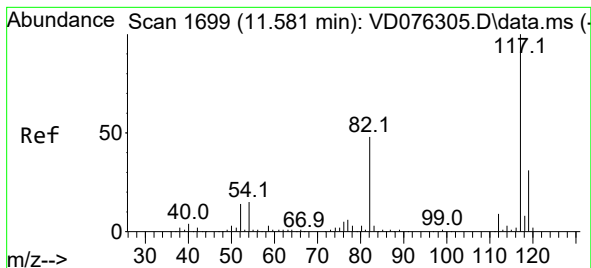
Tgt Ion: 69 Resp: 704
Ion Ratio Lower Upper
69 100
41 8.5 39.1 58.7#
39 0.0 20.0 30.0#



#62
4-Bromofluorobenzene
Concen: 53.987 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VD076316.D
Acq: 02 Jun 2023 16:30

Tgt Ion: 95 Resp: 111085
Ion Ratio Lower Upper
95 100
174 93.5 0.0 201.8
176 90.1 0.0 191.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.581 min Scan# 1

Delta R.T. -0.000 min

Lab File: VD076316.D

Acq: 02 Jun 2023 16:30

Instrument :

MSVOA_D

ClientSampleId :

TP17-0A

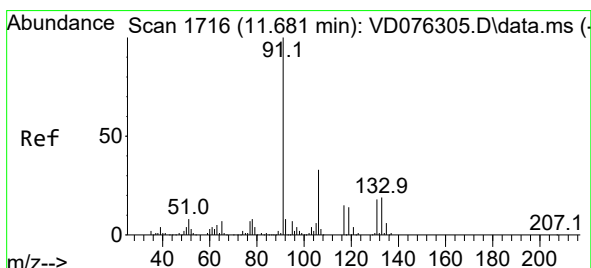
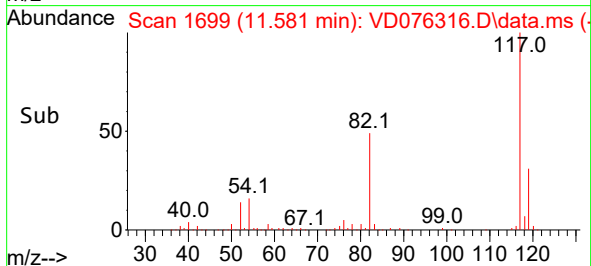
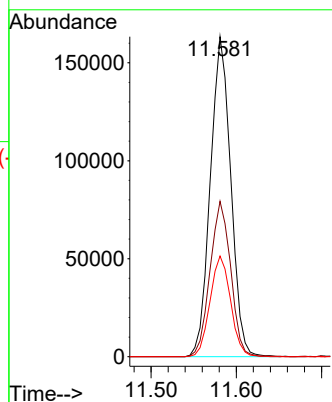
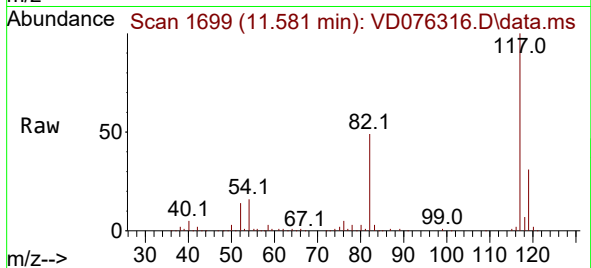
Tgt Ion:117 Resp: 272506

Ion Ratio Lower Upper

117 100

82 48.5 38.3 57.5

119 31.5 25.0 37.4



#67

Ethyl Benzene

Concen: 14.597 ug/l

RT: 11.681 min Scan# 1716

Delta R.T. -0.000 min

Lab File: VD076316.D

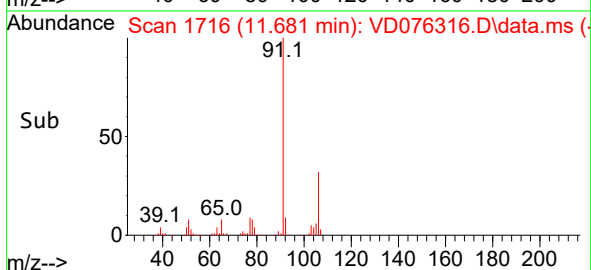
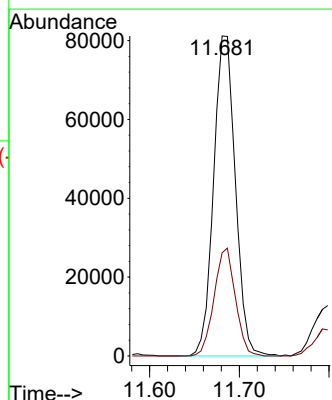
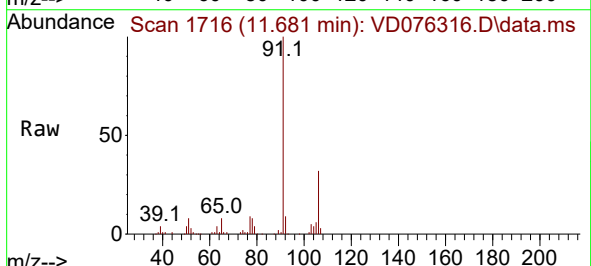
Acq: 02 Jun 2023 16:30

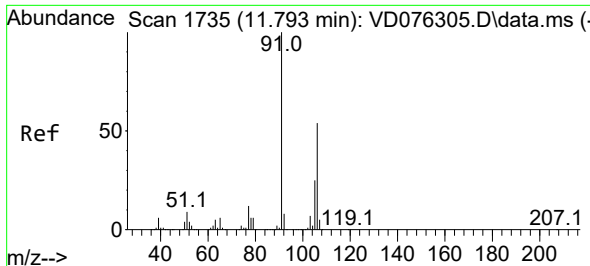
Tgt Ion: 91 Resp: 136628

Ion Ratio Lower Upper

91 100

106 32.3 26.5 39.7

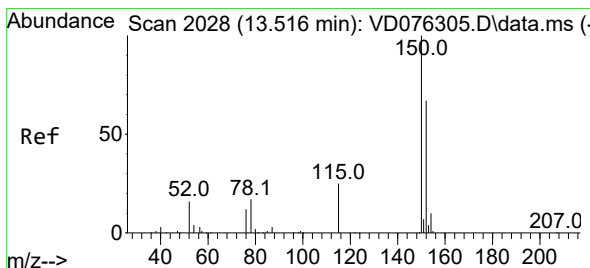
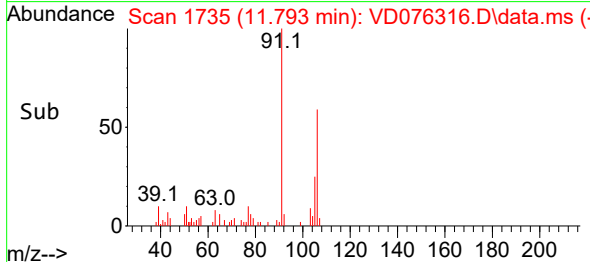
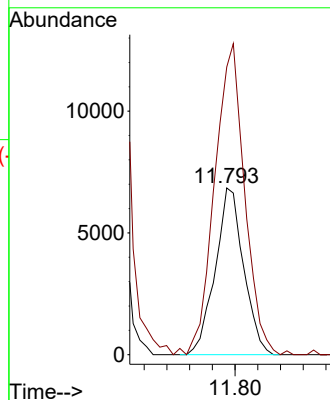
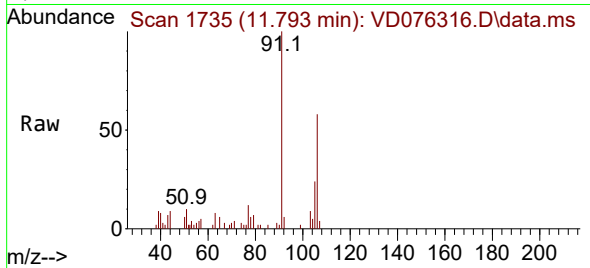




#68
m/p-Xylenes
Concen: 3.070 ug/l
RT: 11.793 min Scan# 1735
Delta R.T. -0.000 min
Lab File: VD076316.D
Acq: 02 Jun 2023 16:30

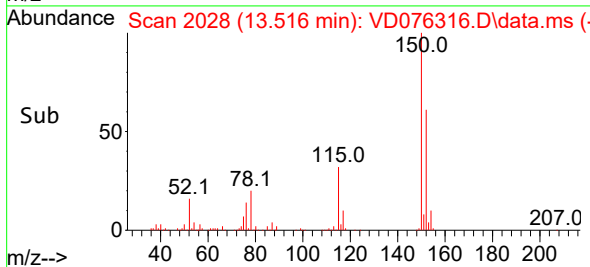
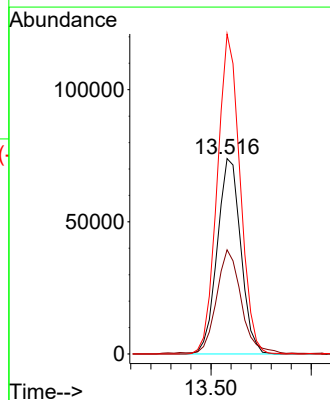
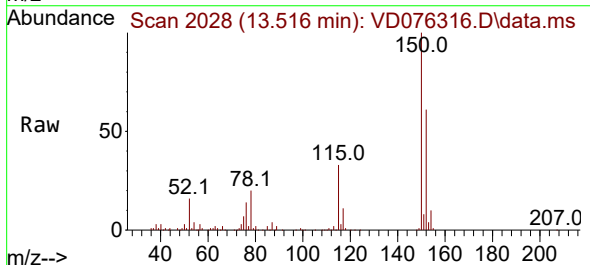
Instrument :
MSVOA_D
ClientSampleId :
TP17-0A

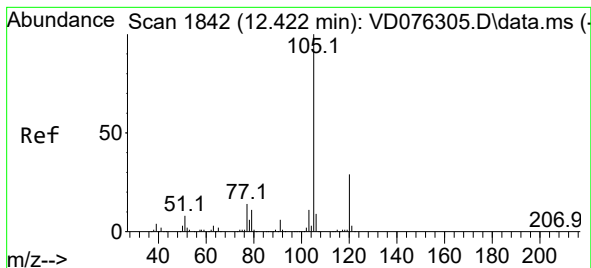
Tgt Ion:106 Resp: 11885
Ion Ratio Lower Upper
106 100
91 197.3 147.0 220.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.000 min
Lab File: VD076316.D
Acq: 02 Jun 2023 16:30

Tgt Ion:152 Resp: 120102
Ion Ratio Lower Upper
152 100
115 57.0 27.1 81.3
150 158.9 0.0 353.6





#73

Isopropylbenzene

Concen: 4.135 ug/l

RT: 12.422 min Scan# 1842

Delta R.T. -0.000 min

Lab File: VD076316.D

Acq: 02 Jun 2023 16:30

Instrument :

MSVOA_D

ClientSampleId :

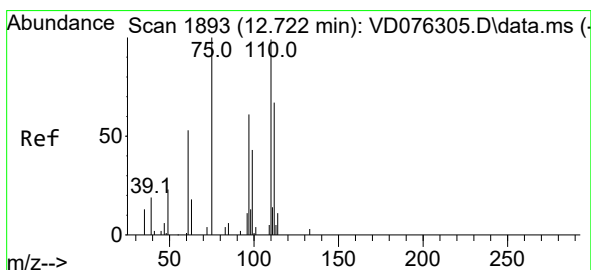
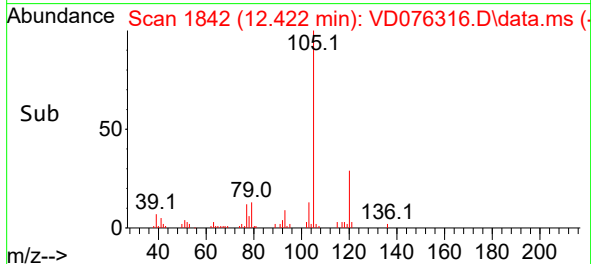
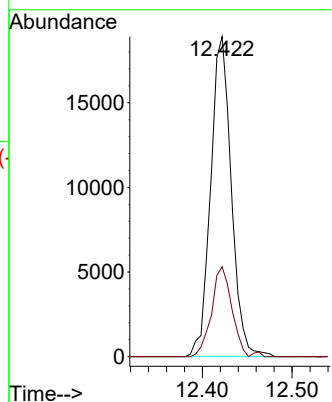
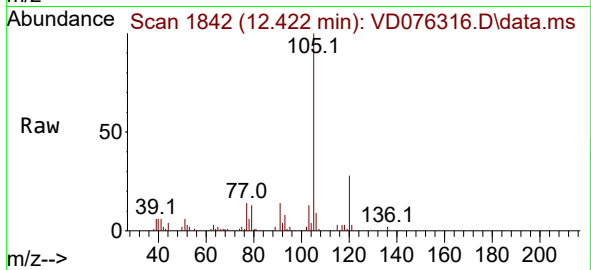
TP17-0A

Tgt Ion:105 Resp: 30250

Ion Ratio Lower Upper

105 100

120 27.3 14.3 42.9



#76

1,2,3-Trichloropropane

Concen: 50.512 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.147 min

Lab File: VD076316.D

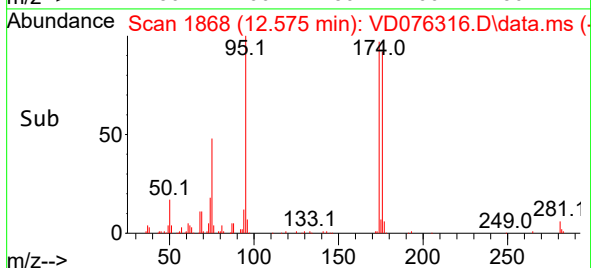
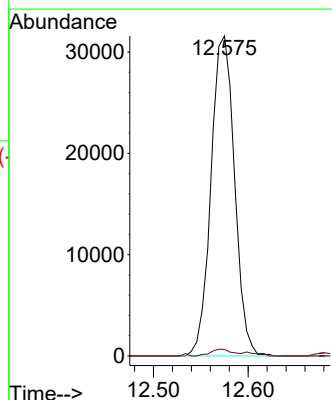
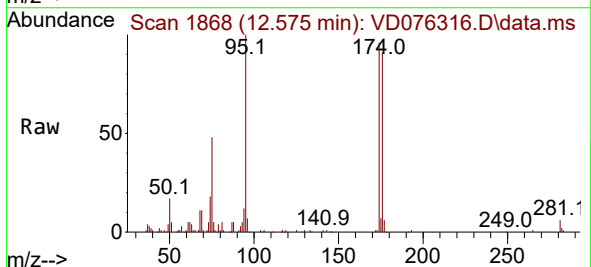
Acq: 02 Jun 2023 16:30

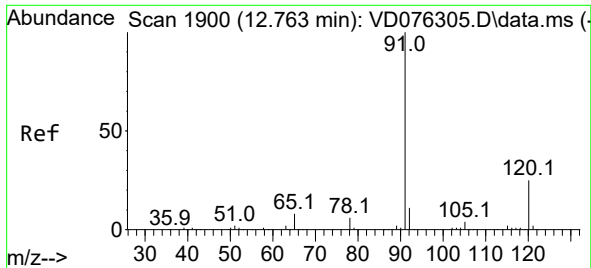
Tgt Ion: 75 Resp: 54578

Ion Ratio Lower Upper

75 100

77 2.0 0.0 0.0#

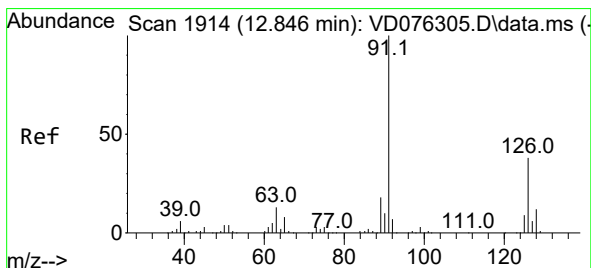
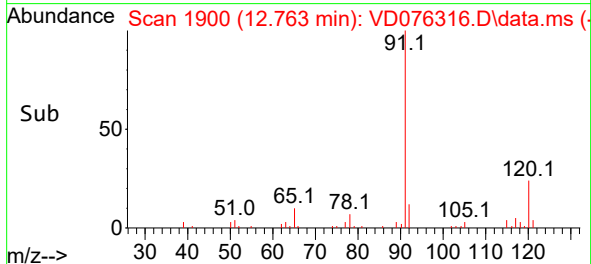
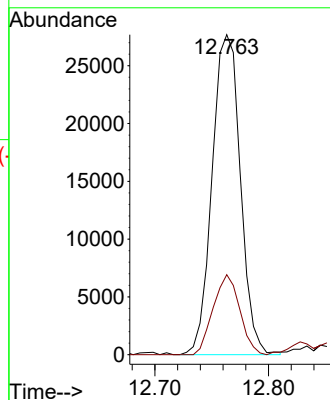
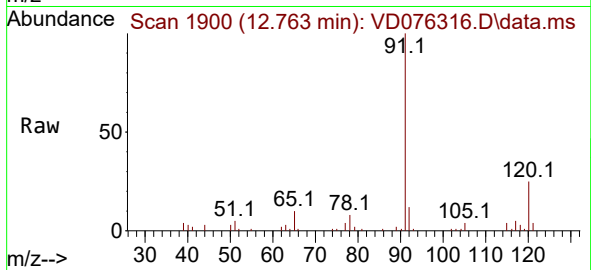




#78
n-propylbenzene
Concen: 5.240 ug/l
RT: 12.763 min Scan# 1900
Delta R.T. -0.000 min
Lab File: VD076316.D
Acq: 02 Jun 2023 16:30

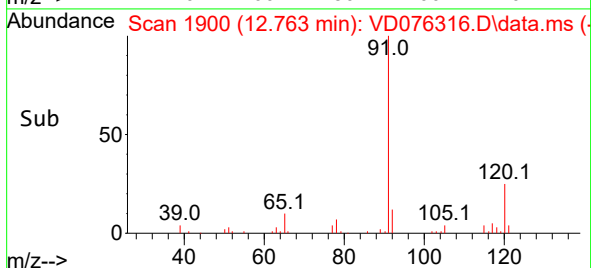
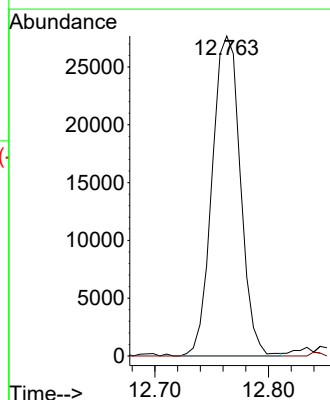
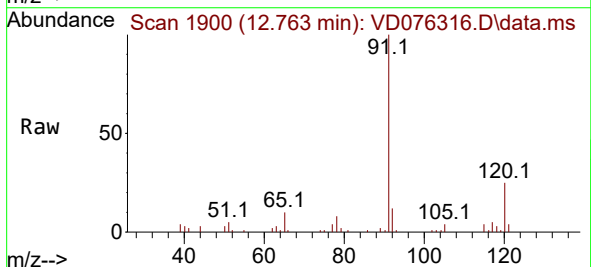
Instrument :
MSVOA_D
ClientSampleId :
TP17-0A

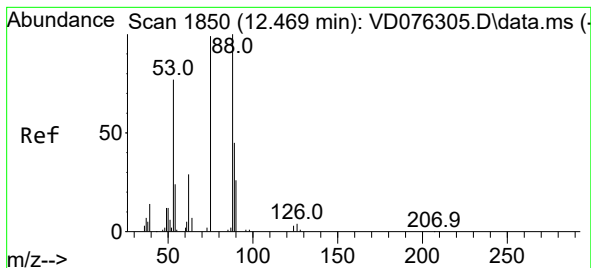
Tgt Ion: 91 Resp: 47855
Ion Ratio Lower Upper
91 100
120 23.5 12.4 37.2



#79
2-Chlorotoluene
Concen: 9.395 ug/l
RT: 12.763 min Scan# 1900
Delta R.T. -0.082 min
Lab File: VD076316.D
Acq: 02 Jun 2023 16:30

Tgt Ion: 91 Resp: 47855
Ion Ratio Lower Upper
91 100
126 0.0 19.4 58.1#

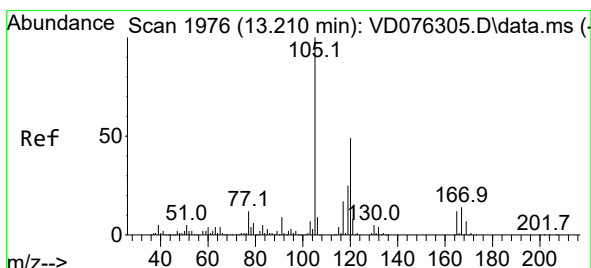
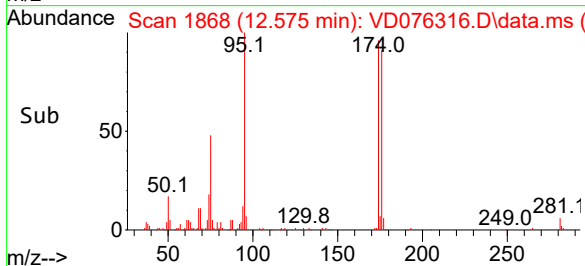
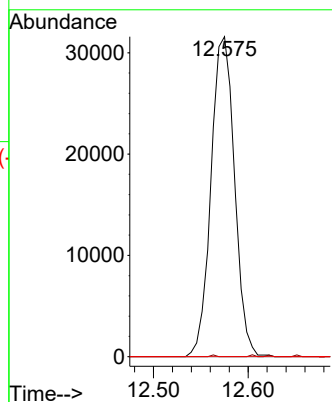
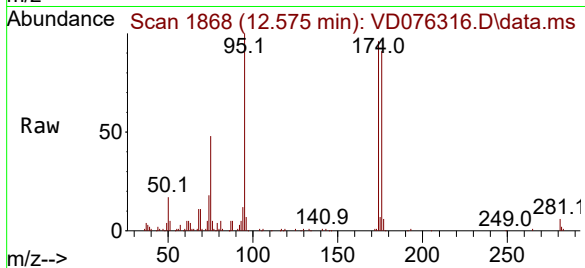




#81
trans-1,4-Dichloro-2-butene
Concen: 115.872 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD076316.D
Acq: 02 Jun 2023 16:30

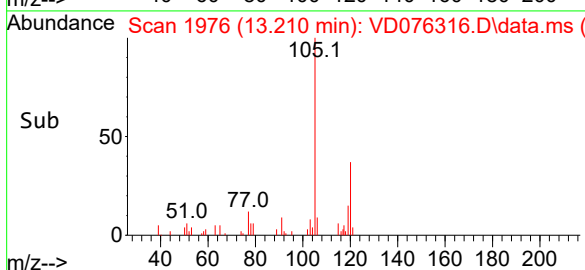
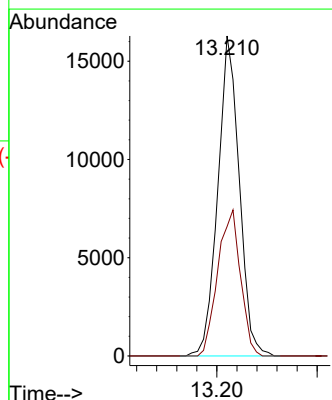
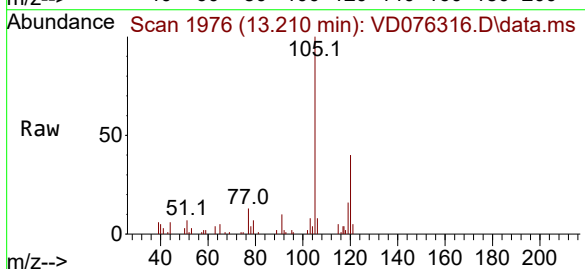
Instrument :
MSVOA_D
ClientSampleId :
TP17-0A

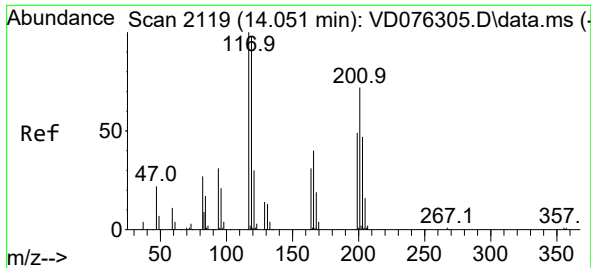
Tgt Ion: 75 Resp: 54578
Ion Ratio Lower Upper
75 100
53 0.1 63.0 94.4#
89 0.0 37.9 56.9#



#84
1,2,4-Trimethylbenzene
Concen: 3.877 ug/l
RT: 13.210 min Scan# 1976
Delta R.T. -0.000 min
Lab File: VD076316.D
Acq: 02 Jun 2023 16:30

Tgt Ion: 105 Resp: 24099
Ion Ratio Lower Upper
105 100
120 48.5 24.3 72.9

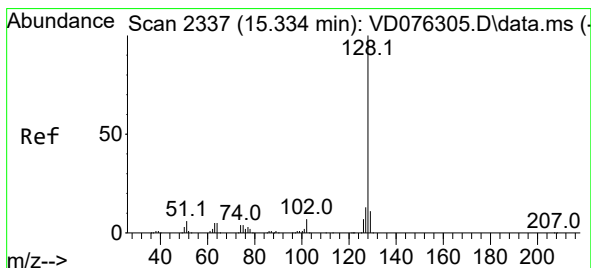
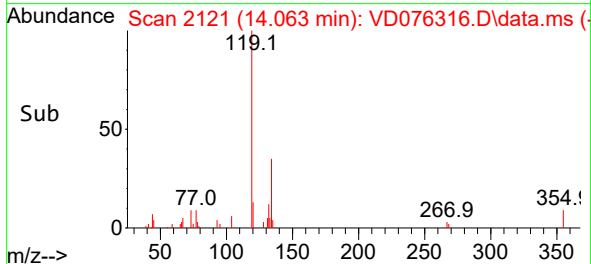
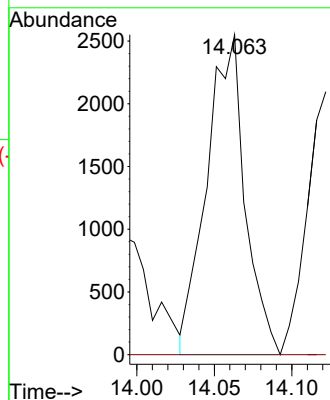
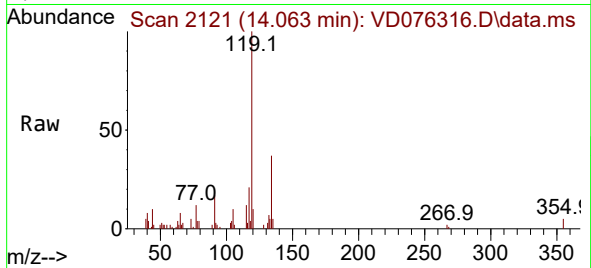




#90
Hexachloroethane
Concen: 3.287 ug/l
RT: 14.063 min Scan# 2119
Delta R.T. 0.012 min
Lab File: VD076316.D
Acq: 02 Jun 2023 16:30

Instrument :
MSVOA_D
ClientSampleId :
TP17-0A

Tgt Ion:117 Resp: 4371
Ion Ratio Lower Upper
117 100
201 0.0 38.5 115.5#



#95
Naphthalene
Concen: 213.462 ug/l
RT: 15.334 min Scan# 2337
Delta R.T. -0.000 min
Lab File: VD076316.D
Acq: 02 Jun 2023 16:30

Tgt Ion:128 Resp: 1037854
Ion Ratio Lower Upper
128 100
127 12.6 10.5 15.7
129 10.9 8.7 13.1

