

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY033023\
 Data File : VY013152.D
 Acq On : 30 Mar 2023 16:00
 Operator : KP/MD
 Sample : 02133-01
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 HD-02-033023

Quant Time: Mar 31 05:46:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y033023S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 31 05:07:15 2023
 Response via : Initial Calibration

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

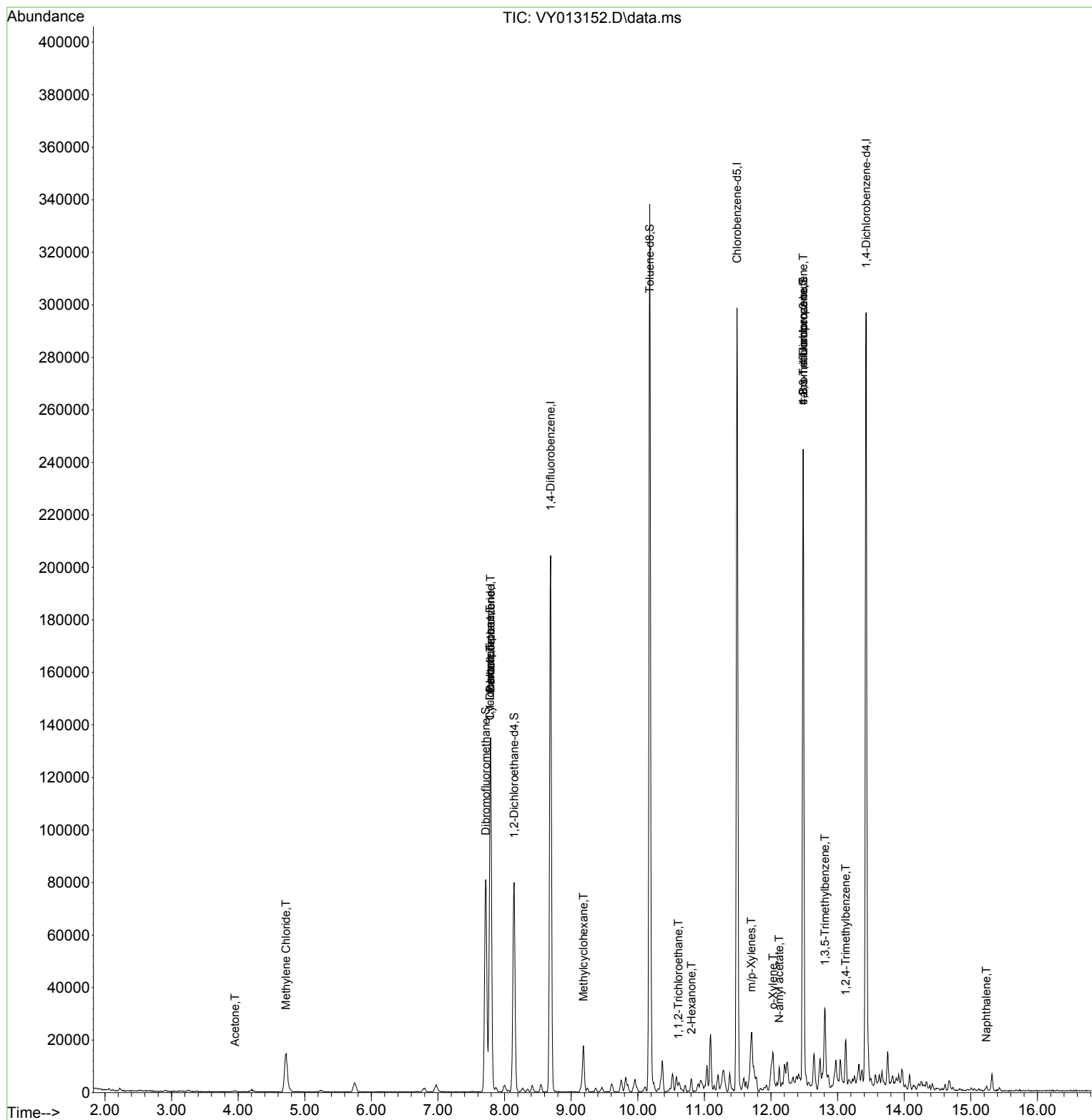
Internal Standards						
1) Pentafluorobenzene	7.789	168	102986	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	171021	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	161319	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	76173	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	62243	56.238	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 112.480%			
35) Dibromofluoromethane	7.716	113	57701	51.647	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.300%			
50) Toluene-d8	10.179	98	206255	48.902	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 97.800%			
62) 4-Bromofluorobenzene	12.483	95	68730	50.063	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 100.120%			
Target Compounds					Qvalue	
16) Acetone	3.954	43	896	2.647	ug/l #	75
20) Methylene Chloride	4.716	84	10533	4.084	ug/l	89
31) Cyclohexane	7.783	56	3958	2.191	ug/l #	34
36) 1,1-Dichloropropene	7.783	75	7357	4.374	ug/l #	51
38) Carbon Tetrachloride	7.789	117	9903	5.336	ug/l #	16
39) Methylcyclohexane	9.185	83	6768	3.430	ug/l	99
55) 1,1,2-Trichloroethane	10.612	97	1343	1.390	ug/l #	15
59) 2-Hexanone	10.807	43	1936	2.900	ug/l #	29
68) m/p-Xylenes	11.703	106	4004	1.750	ug/l	97
69) o-Xylene	12.032	106	3021	1.423	ug/l	99
74) N-amyl acetate	12.124	43	1664	1.153	ug/l #	63
76) 1,2,3-Trichloropropane	12.483	75	36268	42.383	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.813	105	5356	1.218	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.483	75	36268	94.520	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.123	105	9402	2.184	ug/l	98
95) Naphthalene	15.233	128	1691	3.786	ug/l #	91

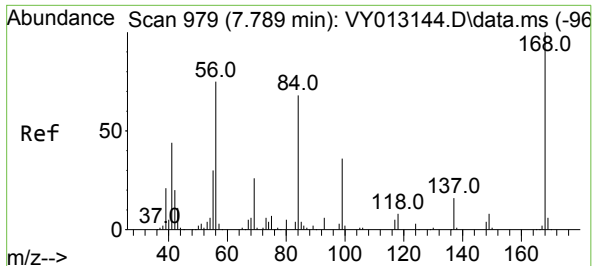
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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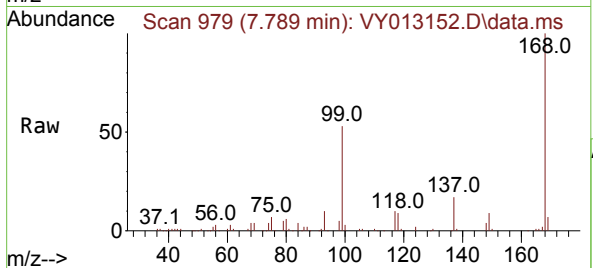
Quant Time: Mar 31 05:46:18 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y033023S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 31 05:07:15 2023
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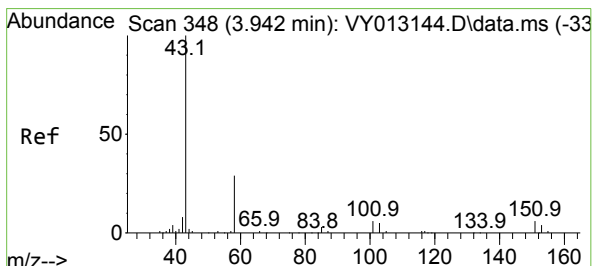
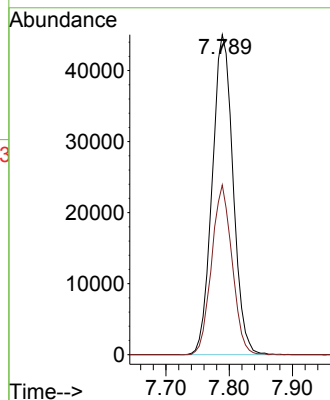
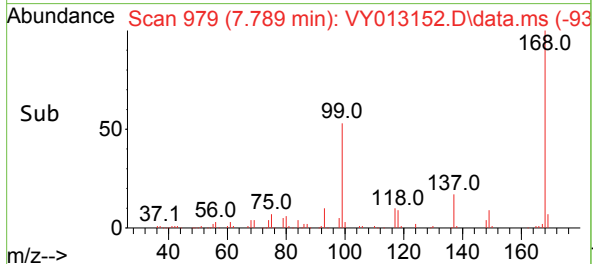


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY013152.D
Acq: 30 Mar 2023 16:00

Instrument :
MSVOA_Y
ClientSampleId :
HD-02-033023

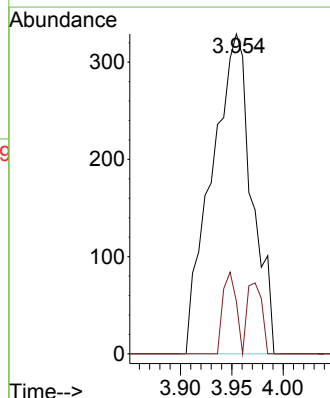
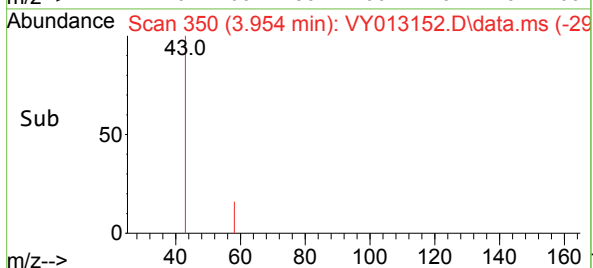
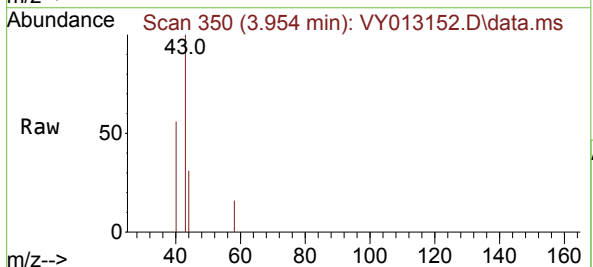


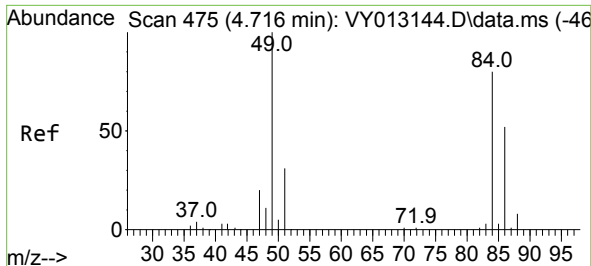
Tgt Ion:168 Resp: 102986
Ion Ratio Lower Upper
168 100
99 53.1 41.7 62.5



#16
Acetone
Concen: 2.647 ug/l
RT: 3.954 min Scan# 350
Delta R.T. 0.012 min
Lab File: VY013152.D
Acq: 30 Mar 2023 16:00

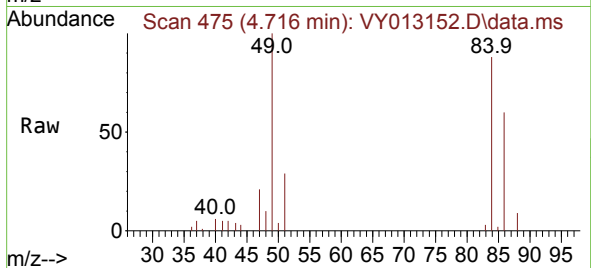
Tgt Ion: 43 Resp: 896
Ion Ratio Lower Upper
43 100
58 16.4 24.2 36.2#



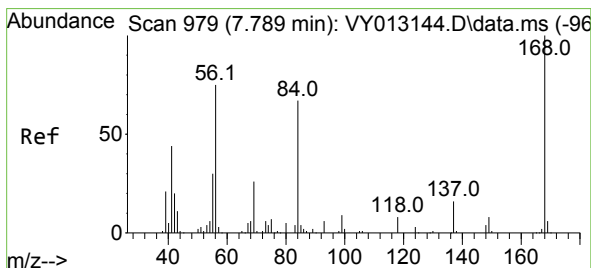
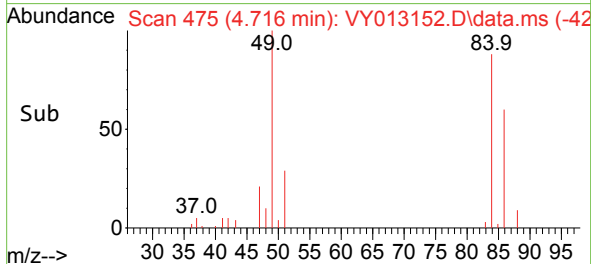
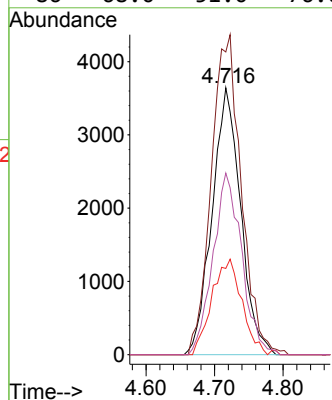


#20
Methylene Chloride
Concen: 4.084 ug/l
RT: 4.716 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY013152.D
Acq: 30 Mar 2023 16:00

Instrument :
MSVOA_Y
ClientSampleId :
HD-02-033023

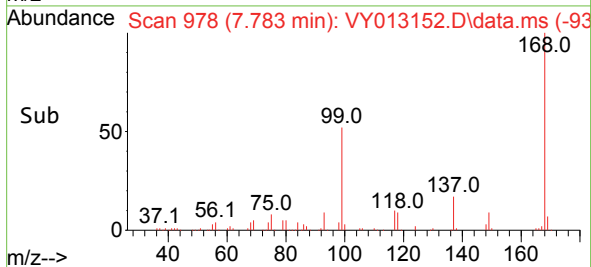
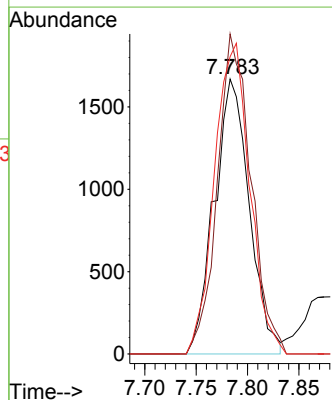
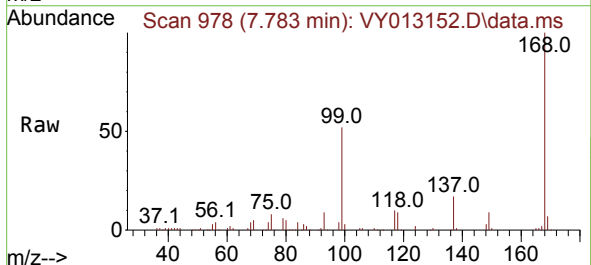


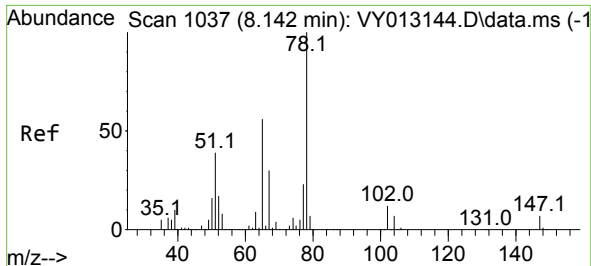
Tgt Ion:	84	Resp:	10533
Ion	Ratio	Lower	Upper
84	100		
49	113.4	102.6	154.0
51	32.3	31.9	47.9
86	68.0	51.0	76.6



#31
Cyclohexane
Concen: 2.191 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.006 min
Lab File: VY013152.D
Acq: 30 Mar 2023 16:00

Tgt Ion:	56	Resp:	3958
Ion	Ratio	Lower	Upper
56	100		
69	116.4	25.7	38.5#
84	108.1	64.3	96.5#





#33

1,2-Dichloroethane-d4

Concen: 56.238 ug/l

RT: 8.143 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY013152.D

Acq: 30 Mar 2023 16:00

Instrument :

MSVOA_Y

ClientSampleId :

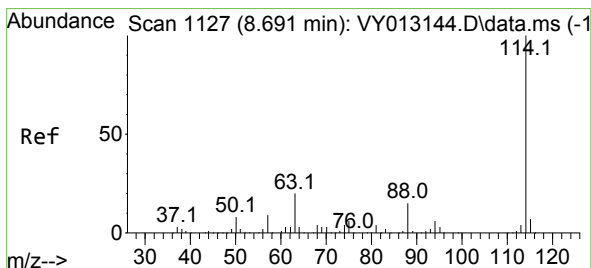
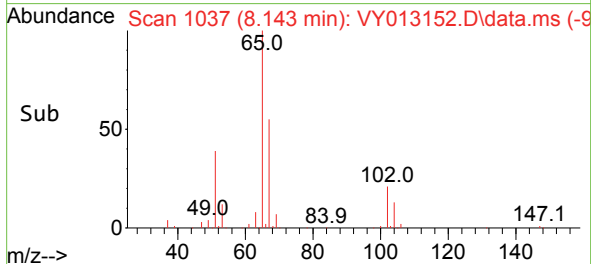
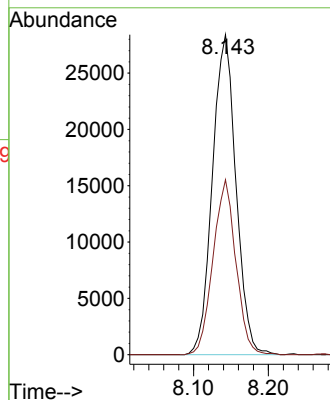
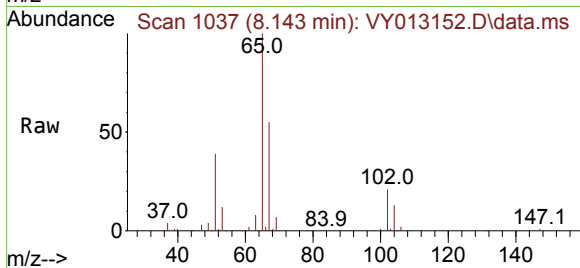
HD-02-033023

Tgt Ion: 65 Resp: 62243

Ion Ratio Lower Upper

65 100

67 53.0 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY013152.D

Acq: 30 Mar 2023 16:00

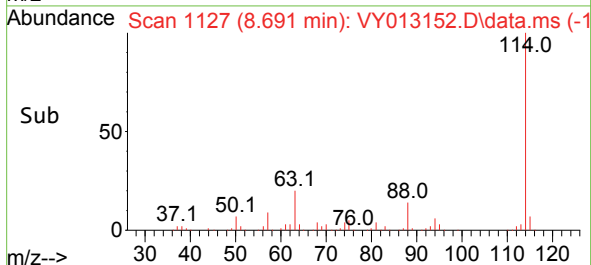
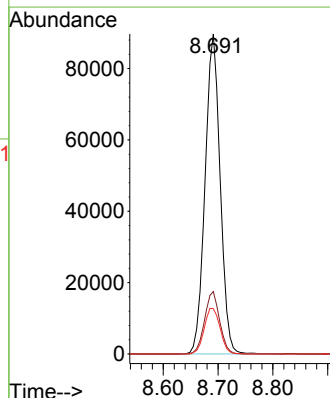
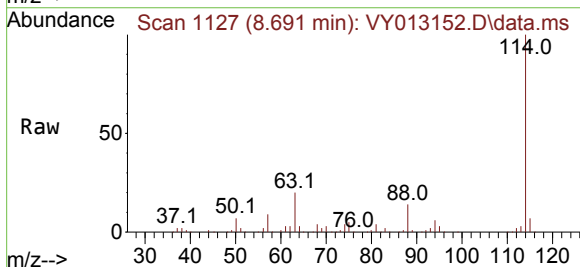
Tgt Ion: 114 Resp: 171021

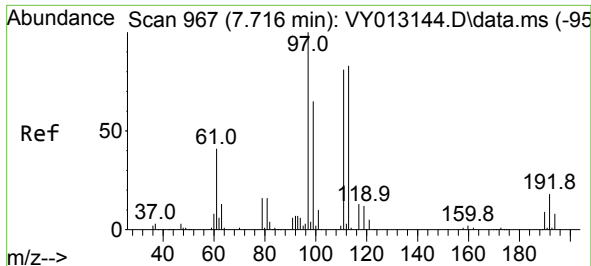
Ion Ratio Lower Upper

114 100

63 19.5 0.0 37.4

88 14.1 0.0 28.6

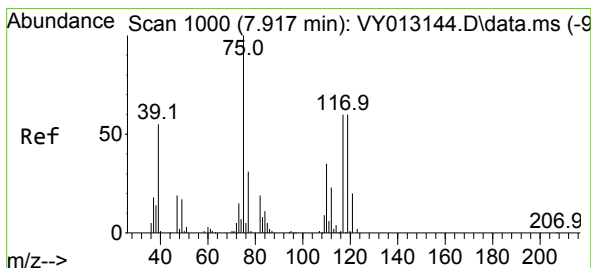
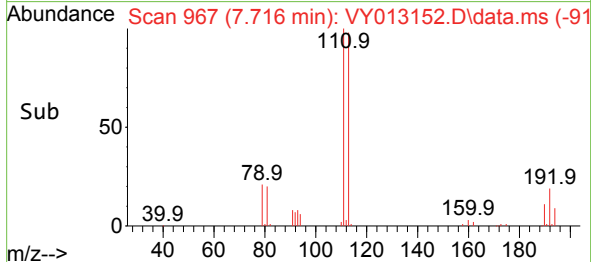
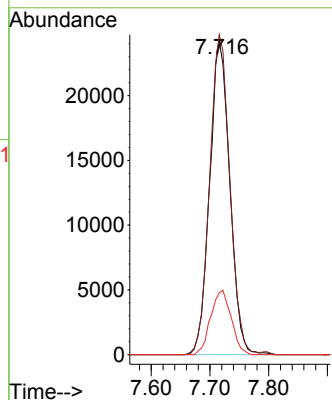
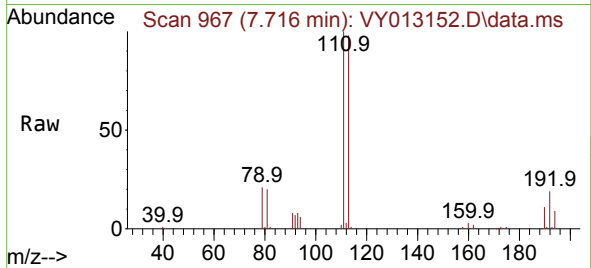




#35
Dibromofluoromethane
Concen: 51.647 ug/l
RT: 7.716 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY013152.D
Acq: 30 Mar 2023 16:00

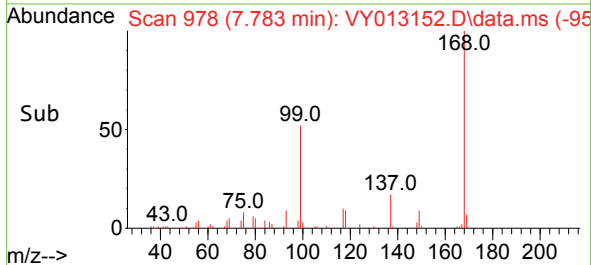
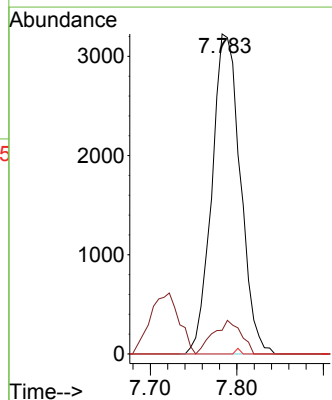
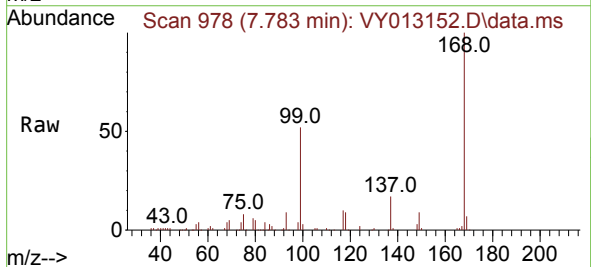
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-033023

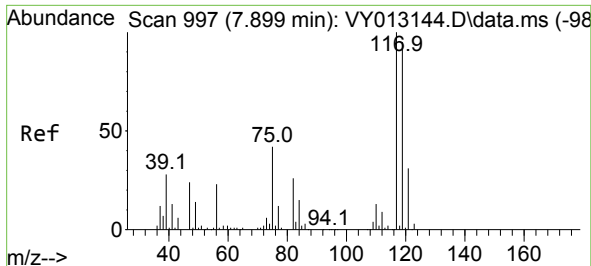
Tgt Ion:113 Resp: 57701
Ion Ratio Lower Upper
113 100
111 102.0 82.2 123.2
192 20.9 16.8 25.2



#36
1,1-Dichloropropene
Concen: 4.374 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.134 min
Lab File: VY013152.D
Acq: 30 Mar 2023 16:00

Tgt Ion: 75 Resp: 7357
Ion Ratio Lower Upper
75 100
110 10.2 17.8 53.3#
77 0.3 25.0 37.4#

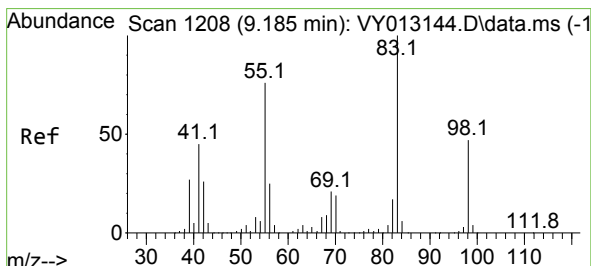
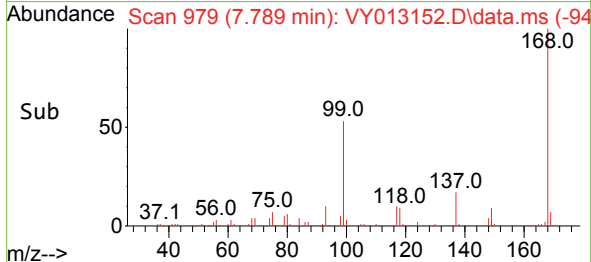
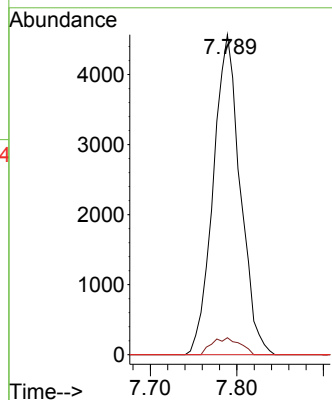
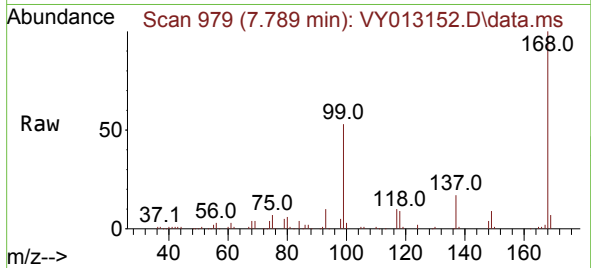




#38
Carbon Tetrachloride
Concen: 5.336 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY013152.D
Acq: 30 Mar 2023 16:00

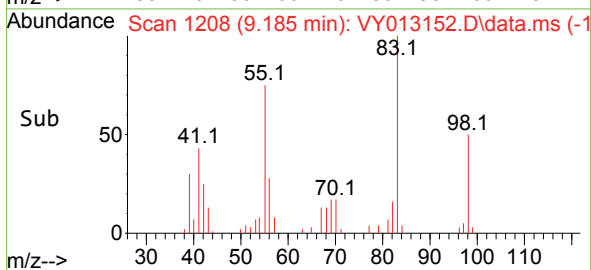
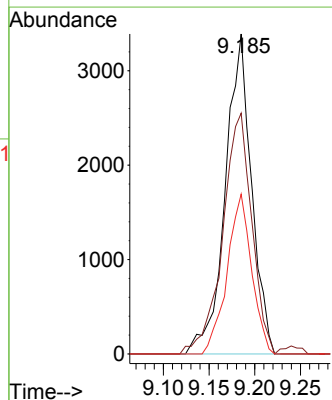
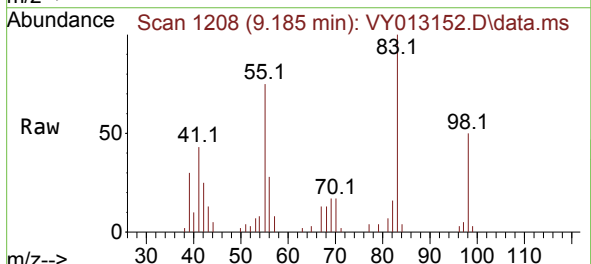
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-033023

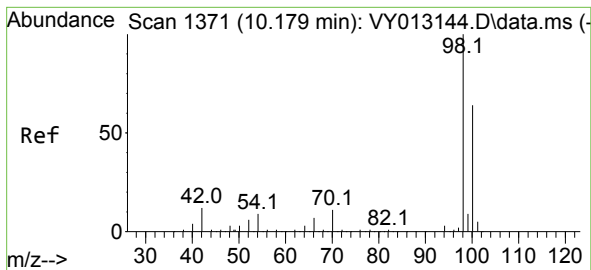
Tgt Ion:117 Resp: 9903
Ion Ratio Lower Upper
117 100
119 5.3 77.2 115.8#
121 0.0 24.7 37.1#



#39
Methylcyclohexane
Concen: 3.430 ug/l
RT: 9.185 min Scan# 1208
Delta R.T. 0.000 min
Lab File: VY013152.D
Acq: 30 Mar 2023 16:00

Tgt Ion: 83 Resp: 6768
Ion Ratio Lower Upper
83 100
55 75.3 60.0 90.0
98 50.0 38.3 57.5





#50

Toluene-d8

Concen: 48.902 ug/l

RT: 10.179 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY013152.D

Acq: 30 Mar 2023 16:00

Instrument :

MSVOA_Y

ClientSampleId :

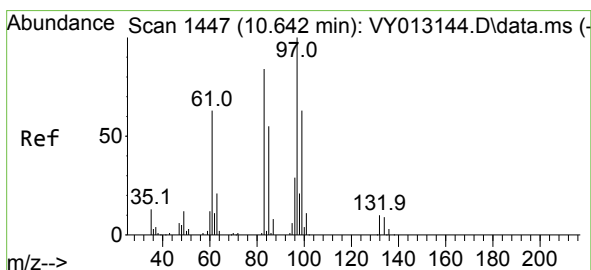
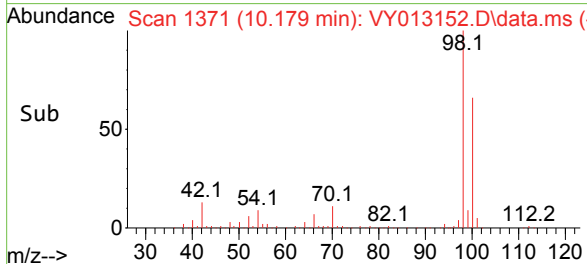
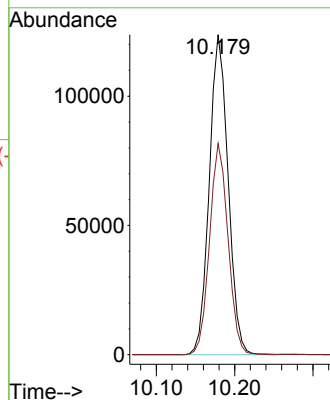
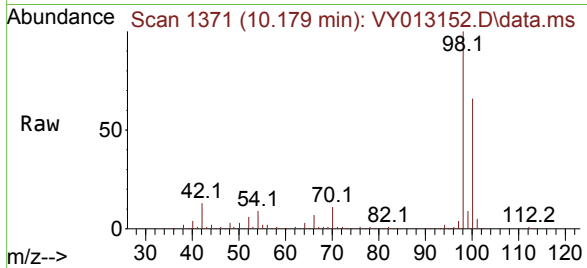
HD-02-033023

Tgt Ion: 98 Resp: 206255

Ion Ratio Lower Upper

98 100

100 64.9 50.9 76.3



#55

1,1,2-Trichloroethane

Concen: 1.390 ug/l

RT: 10.612 min Scan# 1442

Delta R.T. -0.030 min

Lab File: VY013152.D

Acq: 30 Mar 2023 16:00

Tgt Ion: 97 Resp: 1343

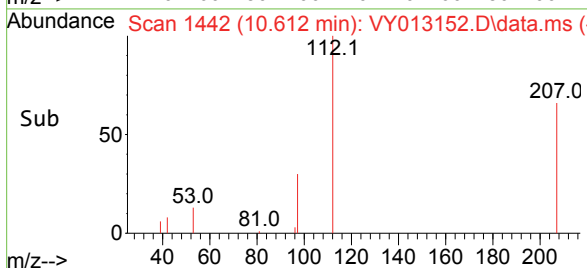
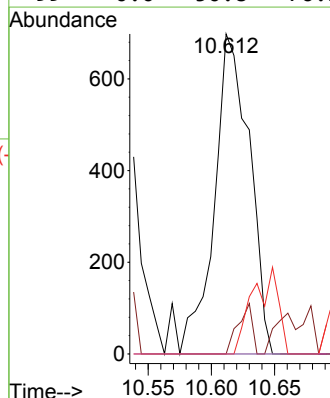
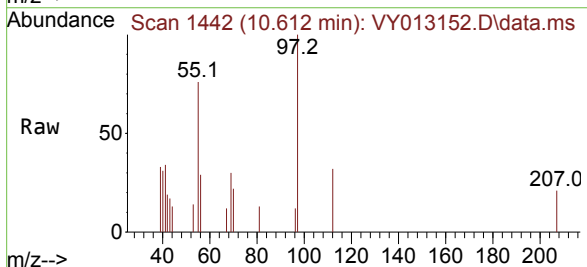
Ion Ratio Lower Upper

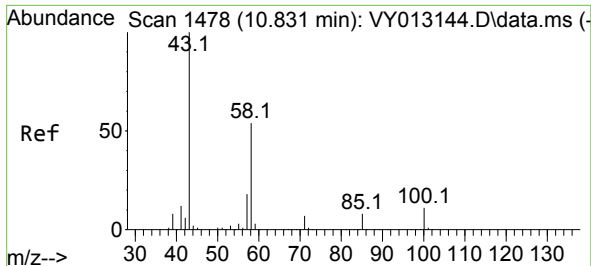
97 100

83 0.0 69.0 103.6#

85 0.0 44.9 67.3#

99 0.0 50.8 76.2#

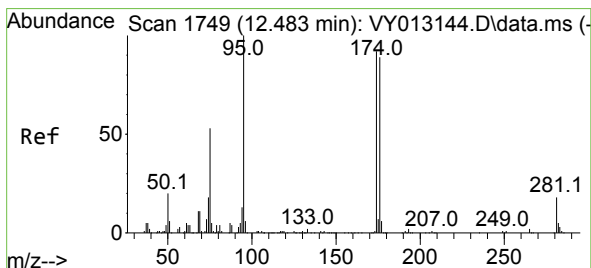
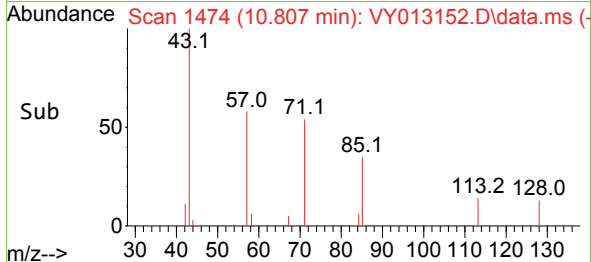
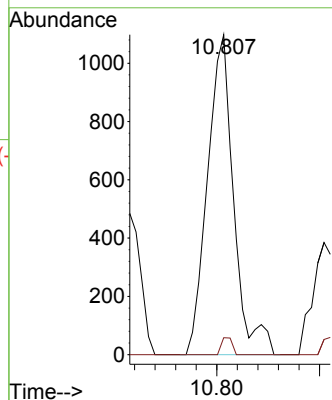
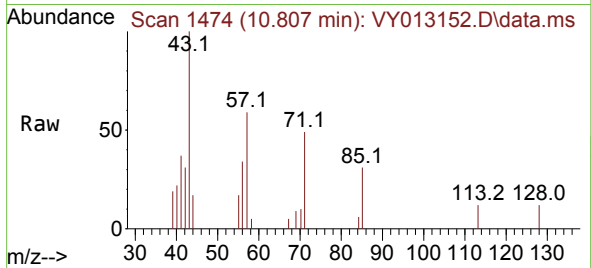




#59
2-Hexanone
Concen: 2.900 ug/l
RT: 10.807 min Scan# 1478
Delta R.T. -0.024 min
Lab File: VY013152.D
Acq: 30 Mar 2023 16:00

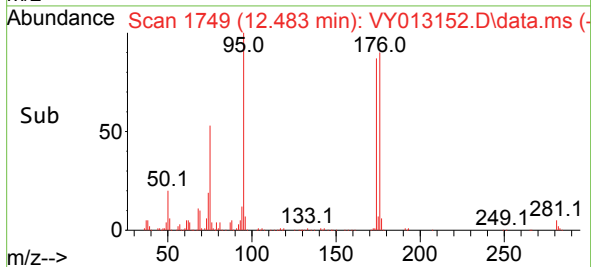
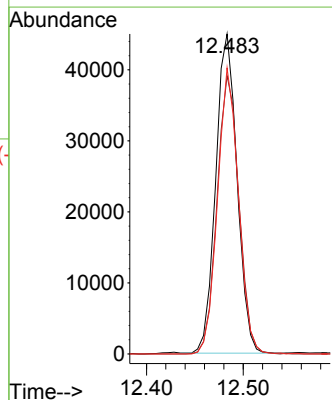
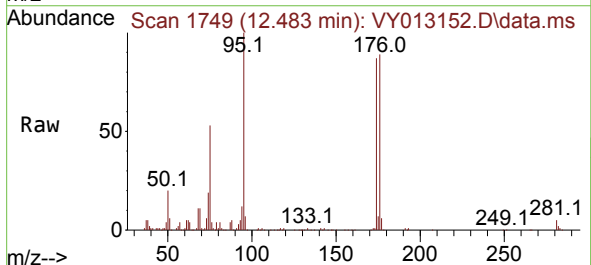
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-033023

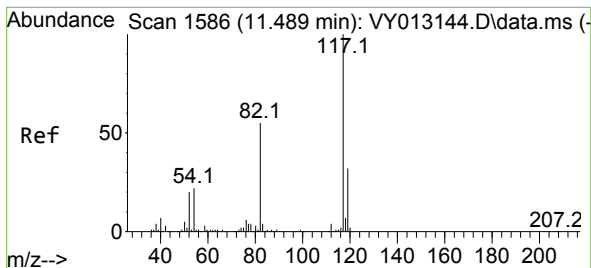
Tgt Ion: 43 Resp: 1936
Ion Ratio Lower Upper
43 100
58 2.2 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 50.063 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY013152.D
Acq: 30 Mar 2023 16:00

Tgt Ion: 95 Resp: 68730
Ion Ratio Lower Upper
95 100
174 89.6 0.0 176.6
176 88.0 0.0 170.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY013152.D

Acq: 30 Mar 2023 16:00

Instrument :

MSVOA_Y

ClientSampleId :

HD-02-033023

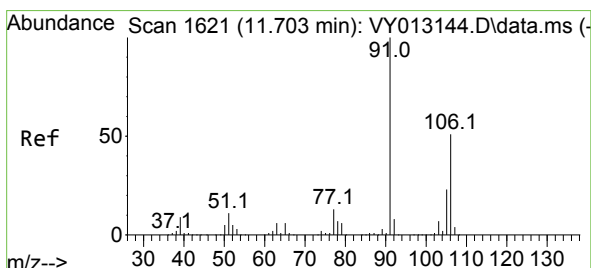
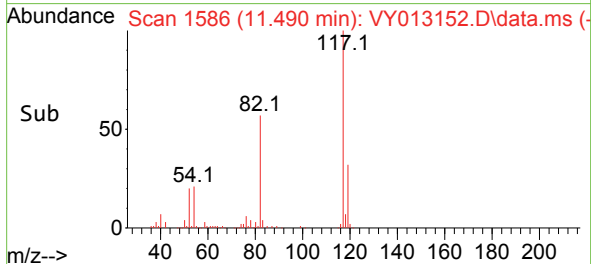
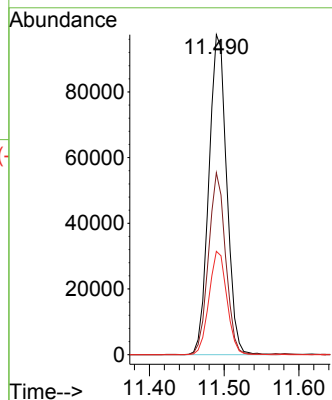
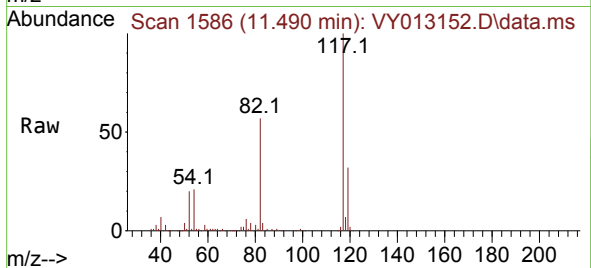
Tgt Ion:117 Resp: 161319

Ion Ratio Lower Upper

117 100

82 56.8 45.4 68.0

119 32.3 25.6 38.4



#68

m/p-Xylenes

Concen: 1.750 ug/l

RT: 11.703 min Scan# 1621

Delta R.T. 0.000 min

Lab File: VY013152.D

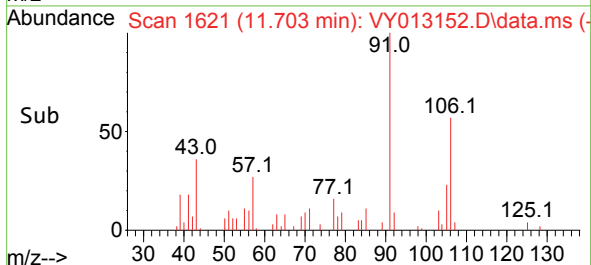
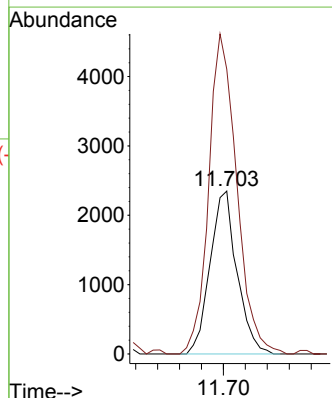
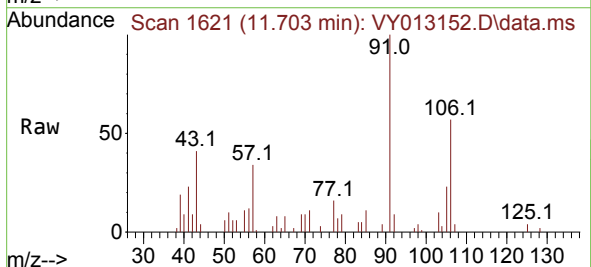
Acq: 30 Mar 2023 16:00

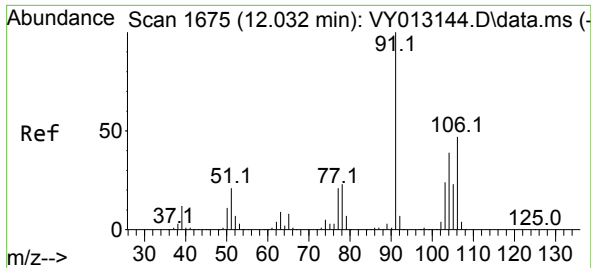
Tgt Ion:106 Resp: 4004

Ion Ratio Lower Upper

106 100

91 204.5 159.8 239.8

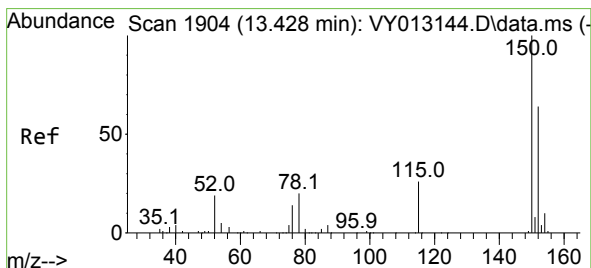
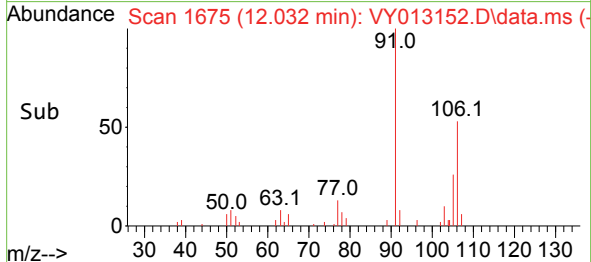
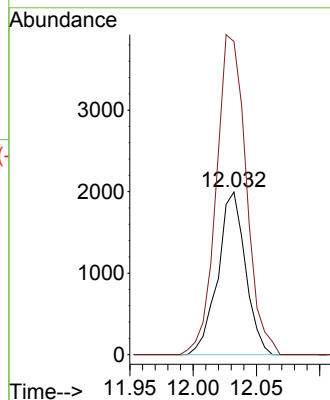
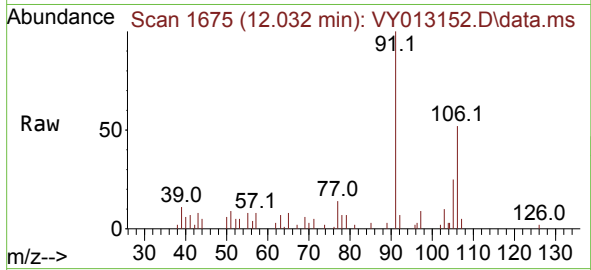




#69
o-Xylene
Concen: 1.423 ug/l
RT: 12.032 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY013152.D
Acq: 30 Mar 2023 16:00

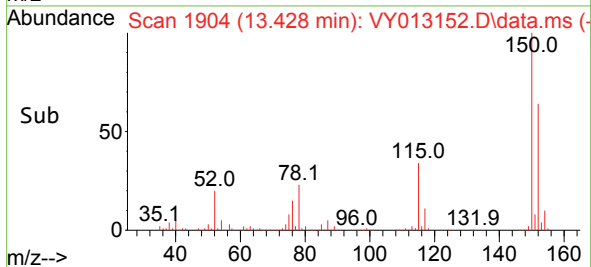
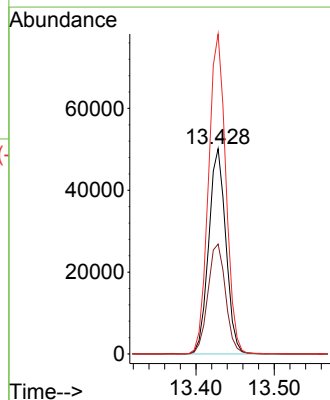
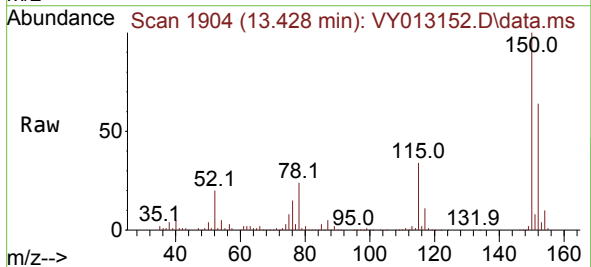
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-033023

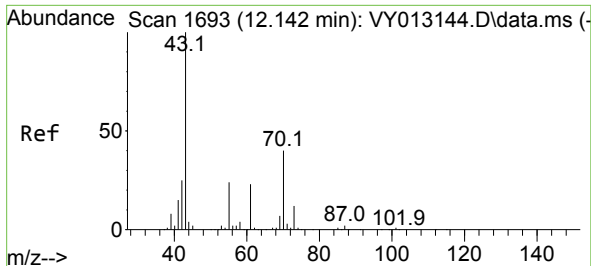
Tgt Ion:106 Resp: 3021
Ion Ratio Lower Upper
106 100
91 213.5 107.2 321.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VY013152.D
Acq: 30 Mar 2023 16:00

Tgt Ion:152 Resp: 76173
Ion Ratio Lower Upper
152 100
115 55.5 27.1 81.3
150 157.5 0.0 347.8

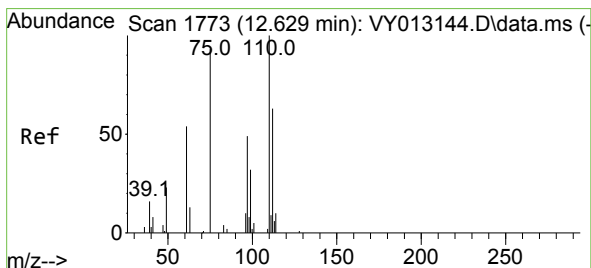
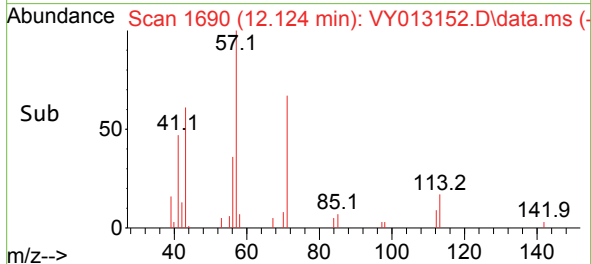
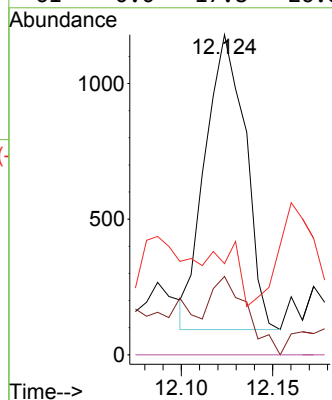
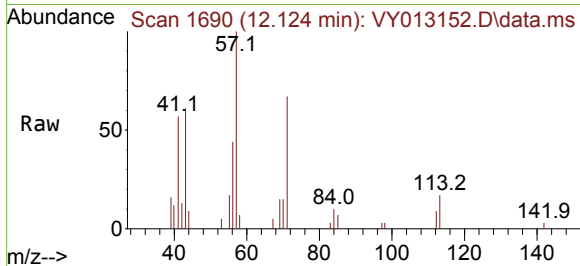




#74
N-amy1 acetate
Concen: 1.153 ug/l
RT: 12.124 min Scan# 1664
Delta R.T. -0.018 min
Lab File: VY013152.D
Acq: 30 Mar 2023 16:00

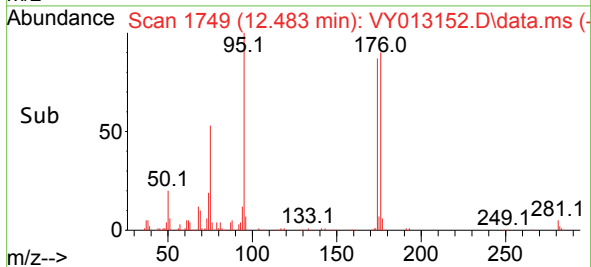
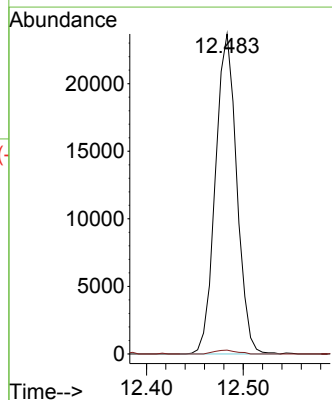
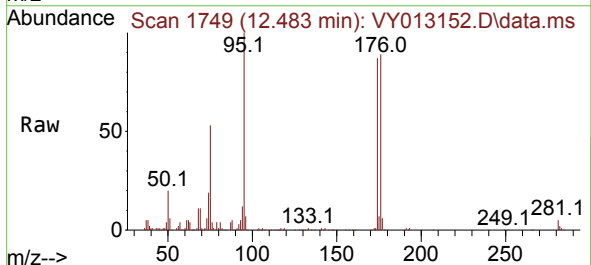
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-033023

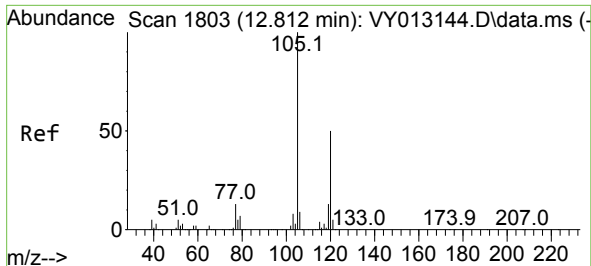
Tgt Ion: 43	Resp: 1664
Ion Ratio	Lower Upper
43	100
70	23.6 31.6 47.4#
55	0.0 18.8 28.2#
61	0.0 17.8 26.8#



#76
1,2,3-Trichloropropane
Concen: 42.383 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.146 min
Lab File: VY013152.D
Acq: 30 Mar 2023 16:00

Tgt Ion: 75	Resp: 36268
Ion Ratio	Lower Upper
75	100
77	1.3 0.0 0.0#

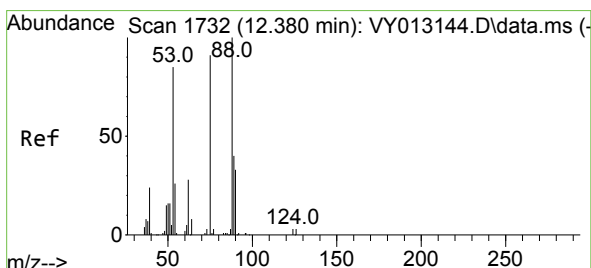
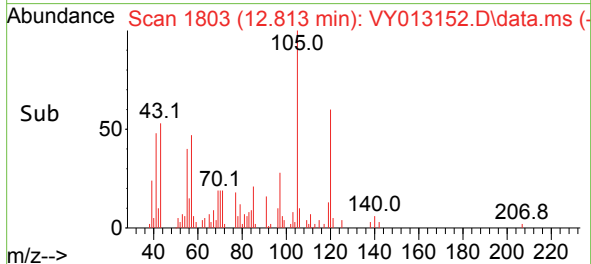
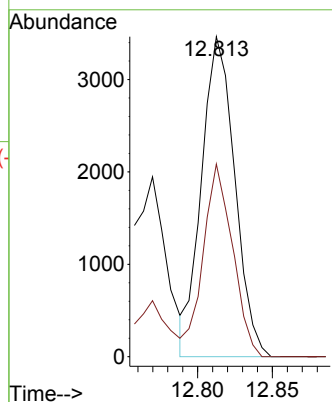
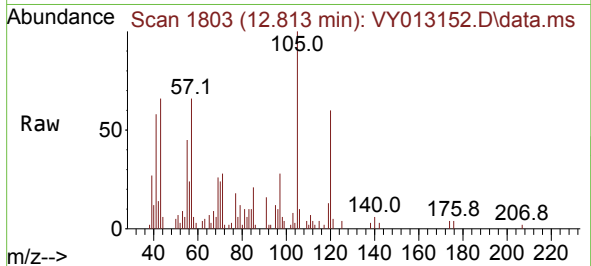




#80
 1,3,5-Trimethylbenzene
 Concen: 1.218 ug/l
 RT: 12.813 min Scan# 1749
 Delta R.T. 0.000 min
 Lab File: VY013152.D
 Acq: 30 Mar 2023 16:00

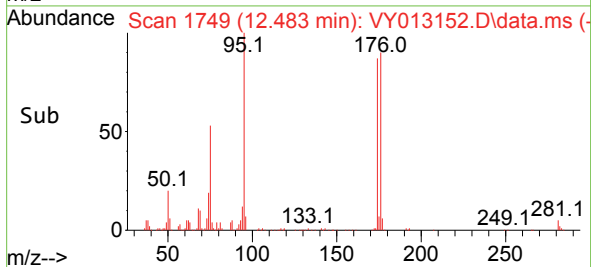
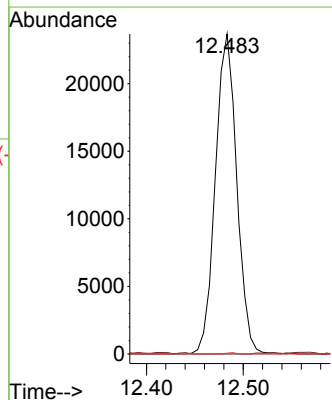
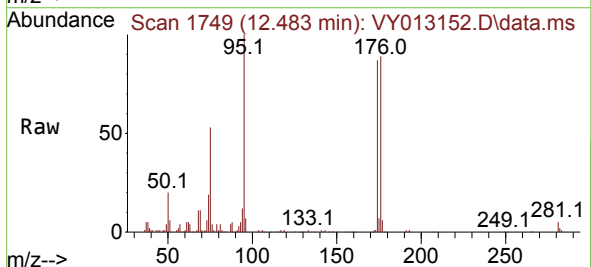
Instrument :
 MSVOA_Y
 ClientSampleId :
 HD-02-033023

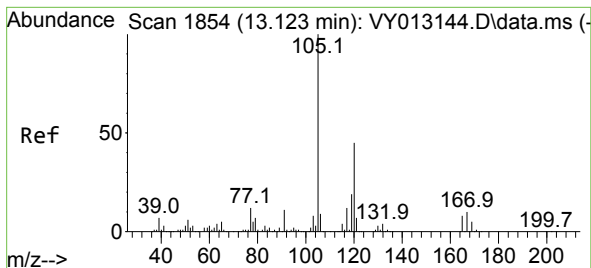
Tgt Ion:105 Resp: 5356
 Ion Ratio Lower Upper
 105 100
 120 53.3 24.8 74.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 94.520 ug/l
 RT: 12.483 min Scan# 1749
 Delta R.T. 0.104 min
 Lab File: VY013152.D
 Acq: 30 Mar 2023 16:00

Tgt Ion: 75 Resp: 36268
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.4 110.0#
 89 0.2 36.6 55.0#





#84

1,2,4-Trimethylbenzene

Concen: 2.184 ug/l

RT: 13.123 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY013152.D

Acq: 30 Mar 2023 16:00

Instrument :

MSVOA_Y

ClientSampleId :

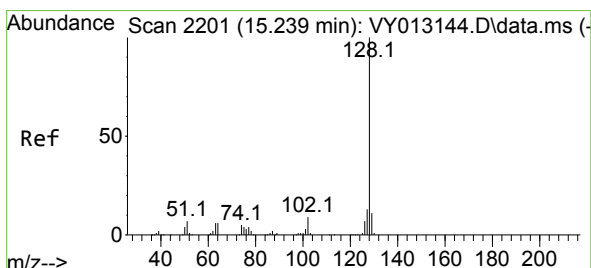
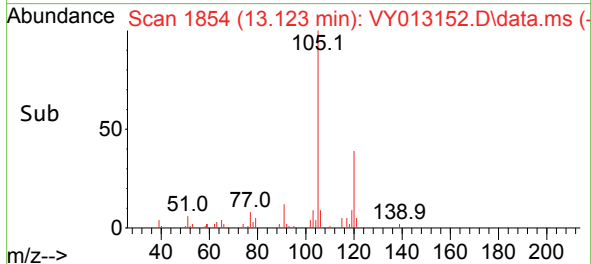
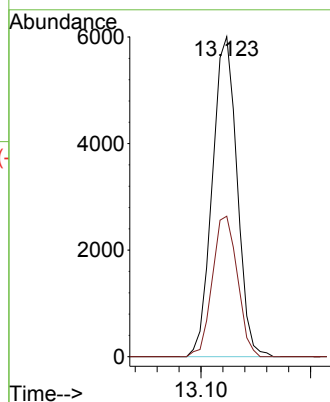
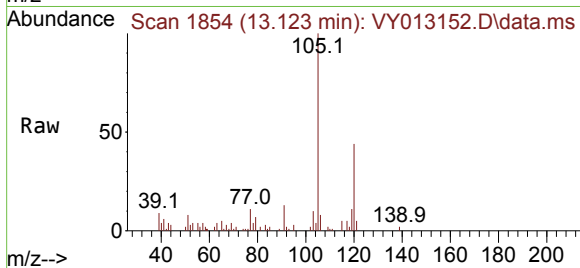
HD-02-033023

Tgt Ion:105 Resp: 9402

Ion Ratio Lower Upper

105 100

120 44.5 23.0 69.0



#95

Naphthalene

Concen: 3.786 ug/l

RT: 15.233 min Scan# 2200

Delta R.T. -0.006 min

Lab File: VY013152.D

Acq: 30 Mar 2023 16:00

Tgt Ion:128 Resp: 1691

Ion Ratio Lower Upper

128 100

127 19.3 10.3 15.5#

129 10.6 8.6 13.0

