

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082423\
 Data File : VY015316.D
 Acq On : 24 Aug 2023 16:55
 Operator : SY/MD
 Sample : 04119-01
 Misc : 5.10g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 25 03:21:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 14 12:43:26 2023
 Response via : Initial Calibration

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

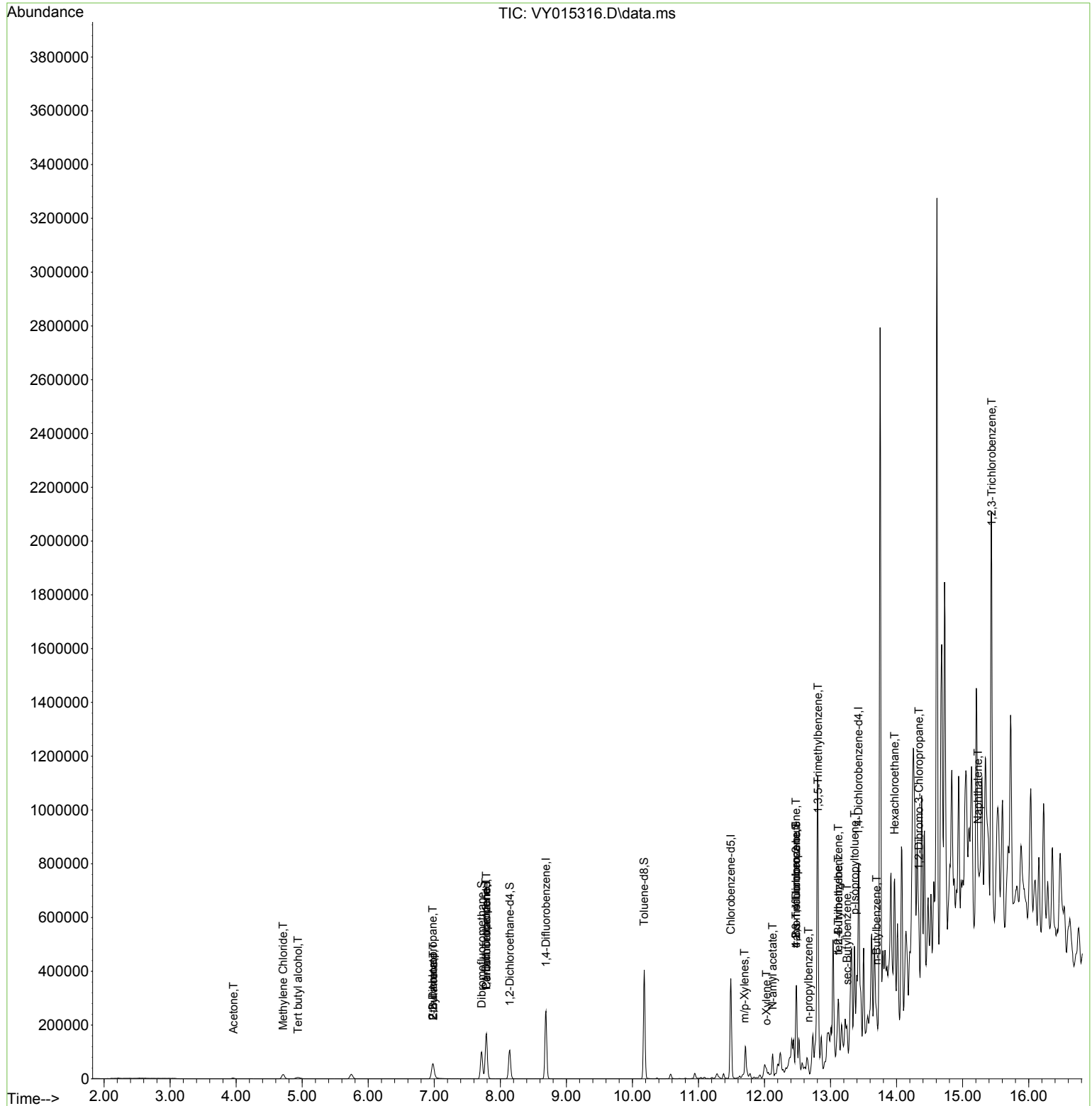
Internal Standards						
1) Pentafluorobenzene	7.789	168	129598	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	216746	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	201096	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	95589	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	84288	54.180	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 108.360%			
35) Dibromofluoromethane	7.716	113	69514	49.852	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.700%			
50) Toluene-d8	10.179	98	255625	49.246	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.500%			
62) 4-Bromofluorobenzene	12.477	95	90749	47.866	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.740%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.107	50	179	Below Cal	#	43
5) Bromomethane	2.631	94	22	Below Cal	#	2
11) Tert butyl alcohol	4.936	59	8513	18.217	ug/l #	95
16) Acetone	3.960	43	5111	10.057	ug/l	93
20) Methylene Chloride	4.710	84	11952	6.007	ug/l	94
25) 2-Butanone	6.984	43	3364	4.675	ug/l #	86
26) 2,2-Dichloropropane	6.978	77	4257	2.044	ug/l #	54
31) Cyclohexane	7.789	56	2940	Below Cal	#	18
36) 1,1-Dichloropropene	7.783	75	10356	6.713	ug/l #	50
37) Ethyl Acetate	6.984	43	3364	2.339	ug/l #	1
38) Carbon Tetrachloride	7.789	117	12865	7.047	ug/l #	17
68) m/p-Xylenes	11.697	106	2565	1.052	ug/l	99
69) o-Xylene	12.032	106	4313	1.776	ug/l	96
74) N-amyl acetate	12.124	43	16142	7.274	ug/l #	66
76) 1,2,3-Trichloropropane	12.477	75	49629	42.734	ug/l #	100
78) n-propylbenzene	12.666	91	7584	1.039	ug/l	96
80) 1,3,5-Trimethylbenzene	12.813	105	51588	10.068	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.477	75	49629	93.865	ug/l #	11
83) tert-Butylbenzene	13.117	119	12481	2.663	ug/l #	66
84) 1,2,4-Trimethylbenzene	13.117	105	100541	19.637	ug/l	99
85) sec-Butylbenzene	13.251	105	19018	2.770	ug/l	89
86) p-Isopropyltoluene	13.367	119	30315	5.325	ug/l	97
89) n-Butylbenzene	13.696	91	26512	4.939	ug/l #	67
90) Hexachloroethane	13.971	117	14041	12.432	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.337	75	953	3.073	ug/l #	3
95) Naphthalene	15.233	128	27745	6.249	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.440	180	7648	4.751	ug/l #	1

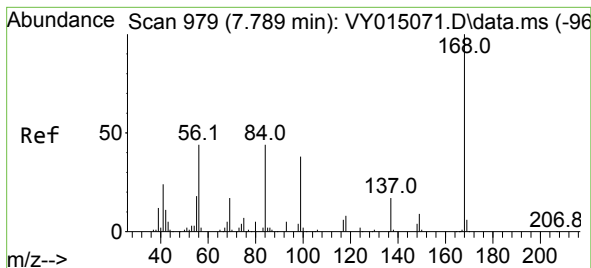
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Aug 14 12:43:26 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.789 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY015316.D

Acq: 24 Aug 2023 16:55

Instrument :

MSVOA_Y

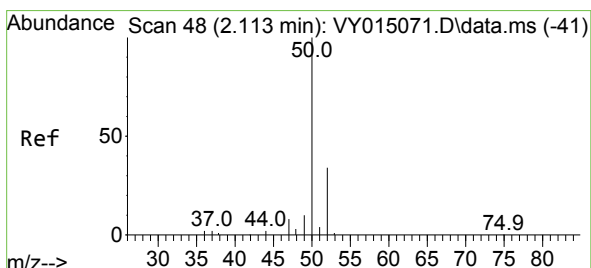
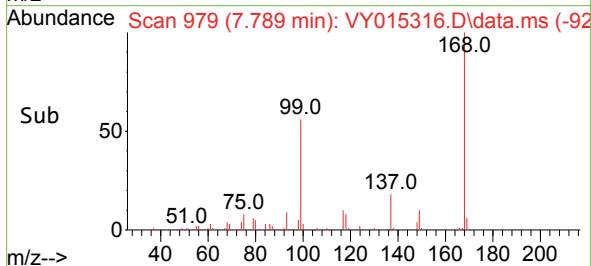
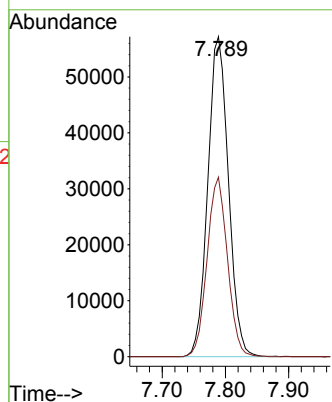
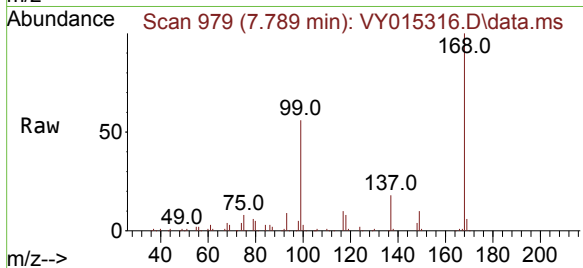
ClientSampleId :

Tgt Ion:168 Resp: 129598

Ion Ratio Lower Upper

168 100

99 56.1 43.4 65.0



#3

Chloromethane

Concen: Below Cal

RT: 2.107 min Scan# 47

Delta R.T. 0.000 min

Lab File: VY015316.D

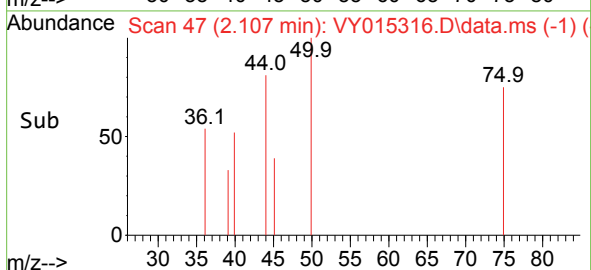
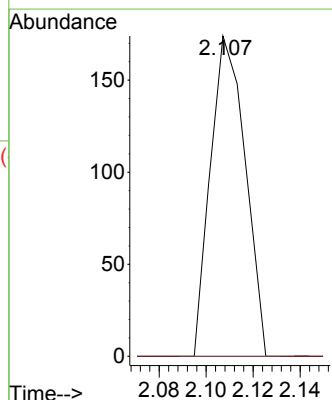
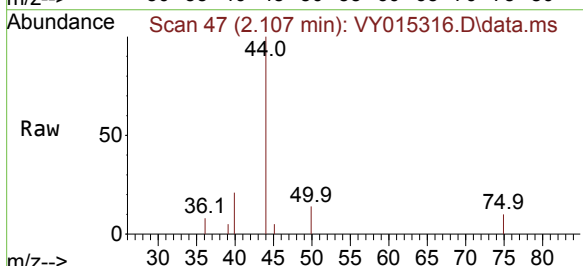
Acq: 24 Aug 2023 16:55

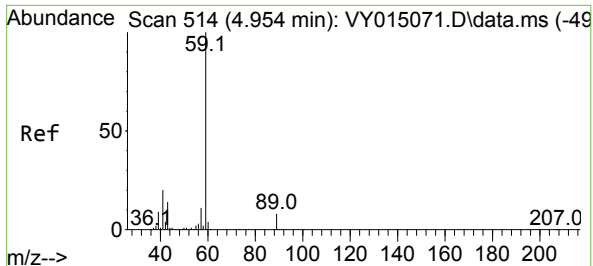
Tgt Ion: 50 Resp: 179

Ion Ratio Lower Upper

50 100

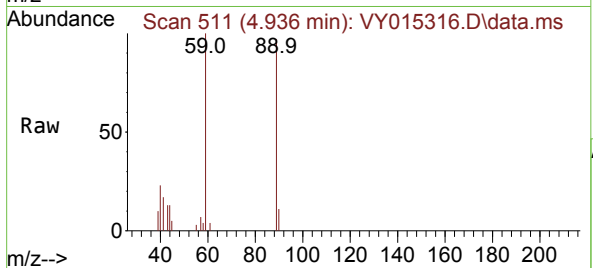
52 0.0 25.4 38.2#



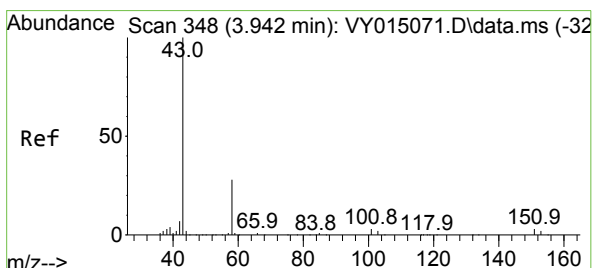
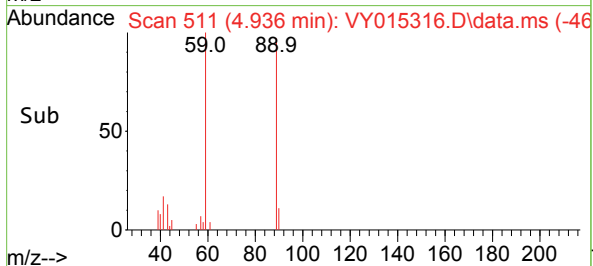
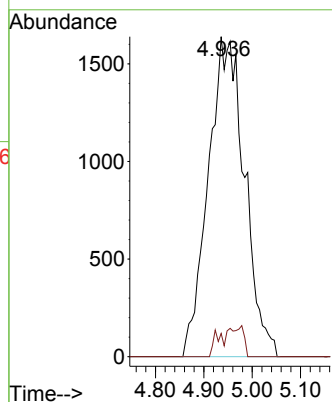


#11
Tert butyl alcohol
Concen: 18.217 ug/l
RT: 4.936 min Scan# 511
Delta R.T. -0.012 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

Instrument :
MSVOA_Y
ClientSampleId :

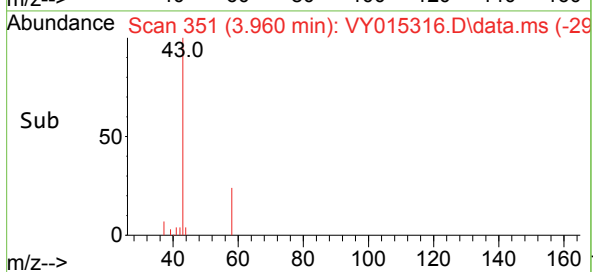
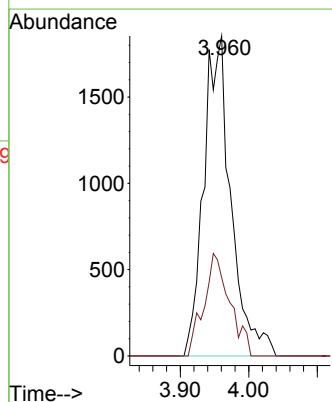
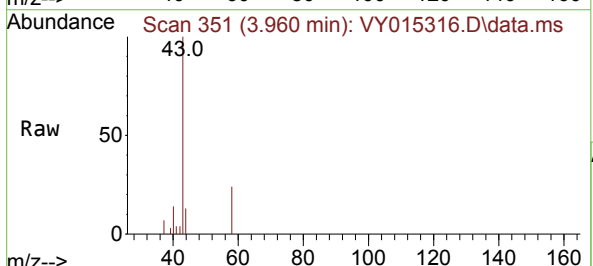


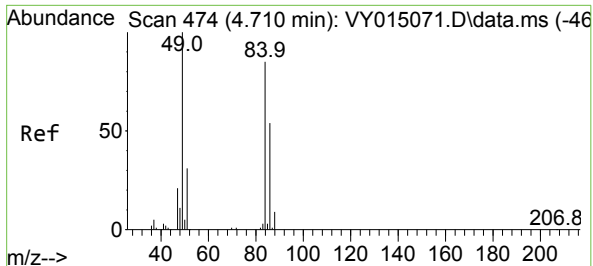
Tgt Ion: 59 Resp: 8513
Ion Ratio Lower Upper
59 100
57 1.9 3.0 4.4#



#16
Acetone
Concen: 10.057 ug/l
RT: 3.960 min Scan# 351
Delta R.T. 0.018 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

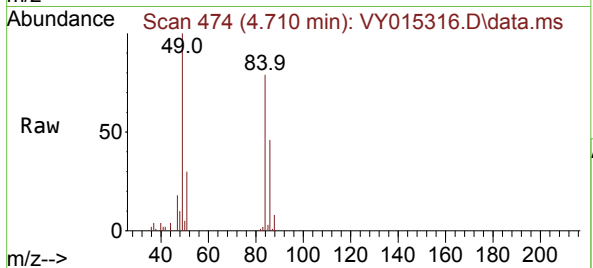
Tgt Ion: 43 Resp: 5111
Ion Ratio Lower Upper
43 100
58 24.5 22.7 34.1



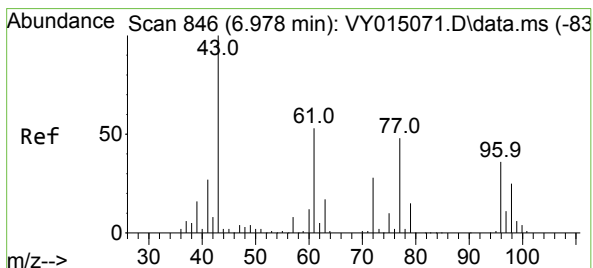
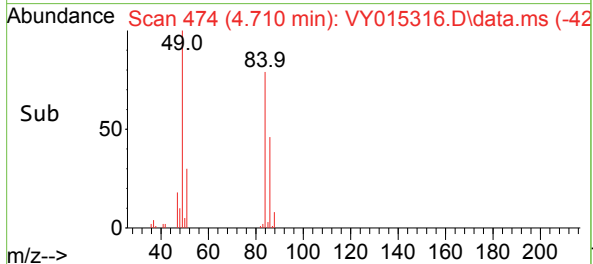
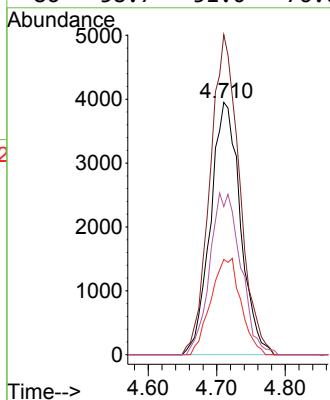


#20
Methylene Chloride
Concen: 6.007 ug/l
RT: 4.710 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

Instrument :
MSVOA_Y
ClientSampleId :

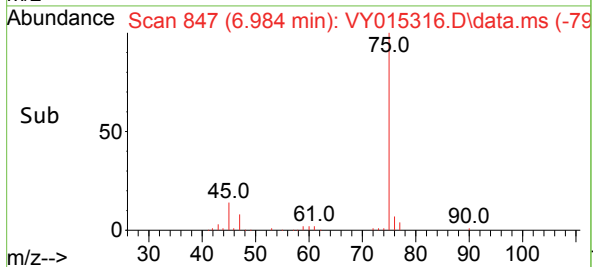
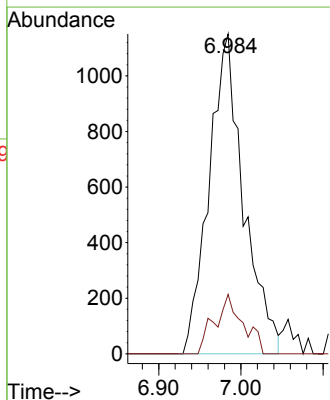
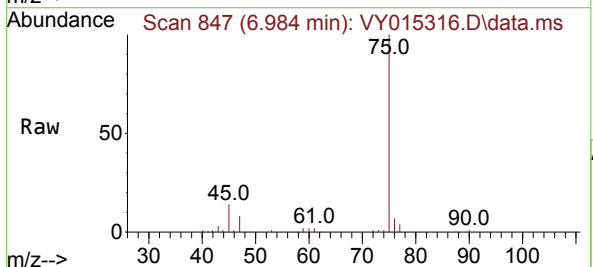


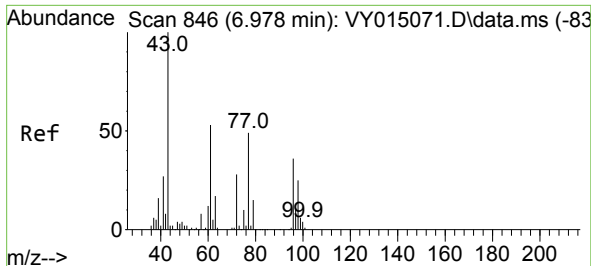
Tgt Ion:	84	Resp:	11952
Ion	Ratio	Lower	Upper
84	100		
49	126.8	106.9	160.3
51	37.7	33.2	49.8
86	58.7	51.0	76.6



#25
2-Butanone
Concen: 4.675 ug/l
RT: 6.984 min Scan# 847
Delta R.T. 0.006 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

Tgt Ion:	43	Resp:	3364
Ion	Ratio	Lower	Upper
43	100		
72	18.6	20.5	30.7#

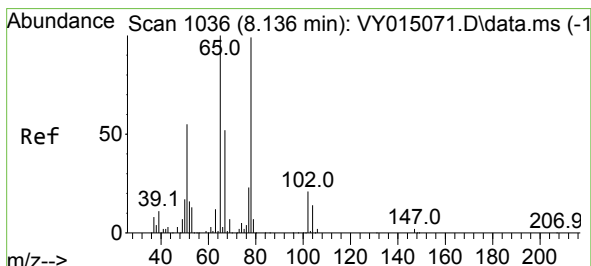
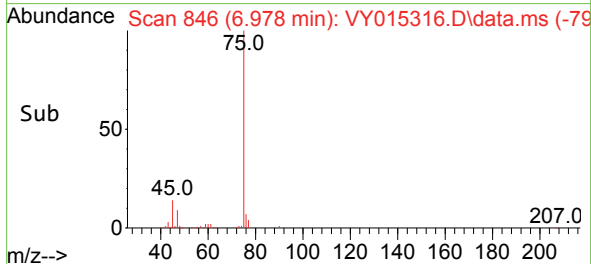
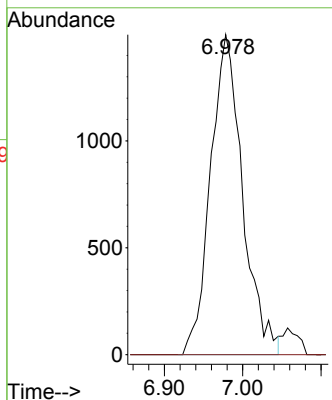
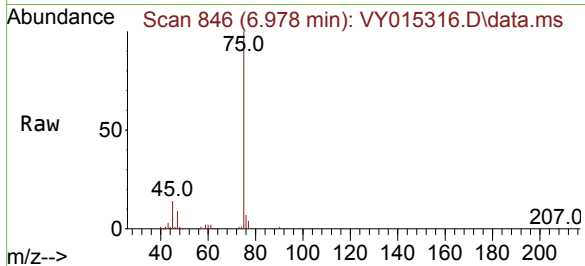




#26
2,2-Dichloropropane
Concen: 2.044 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.006 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

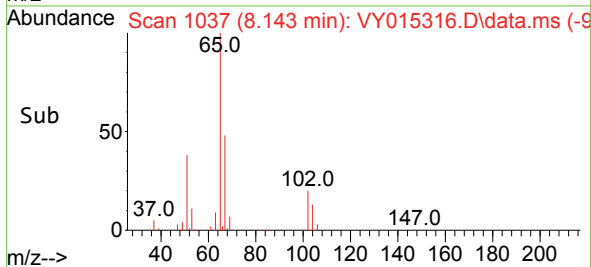
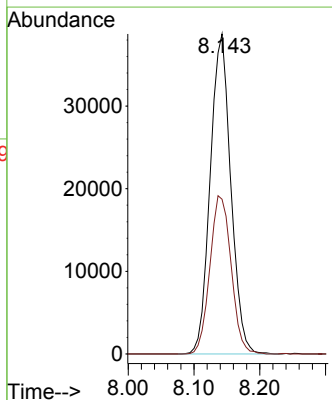
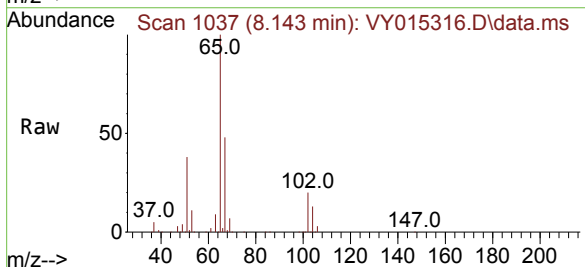
Instrument :
MSVOA_Y
ClientSampleId :

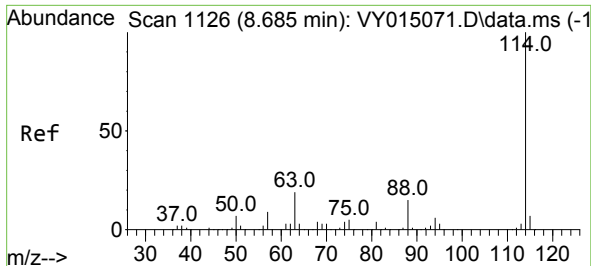
Tgt Ion: 77 Resp: 4257
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.9#



#33
1,2-Dichloroethane-d4
Concen: 54.180 ug/l
RT: 8.143 min Scan# 1037
Delta R.T. 0.006 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

Tgt Ion: 65 Resp: 84288
Ion Ratio Lower Upper
65 100
67 51.1 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY015316.D

Acq: 24 Aug 2023 16:55

Instrument :

MSVOA_Y

ClientSampleId :

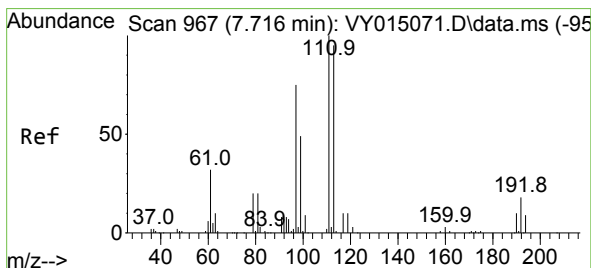
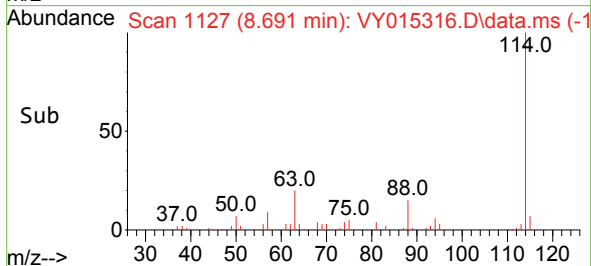
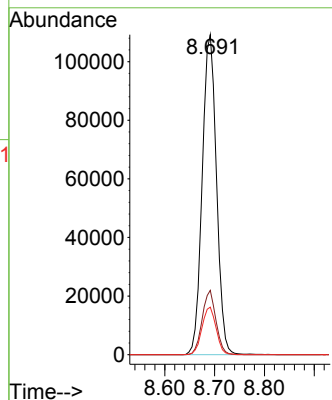
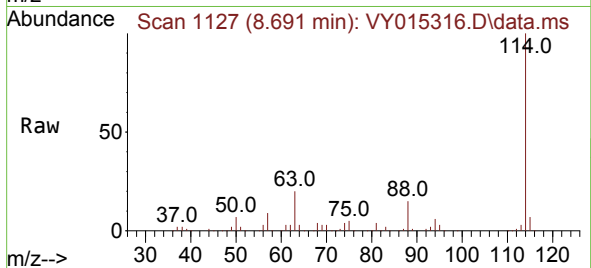
Tgt Ion:114 Resp: 216746

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.4

88 14.9 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.852 ug/l

RT: 7.716 min Scan# 967

Delta R.T. 0.000 min

Lab File: VY015316.D

Acq: 24 Aug 2023 16:55

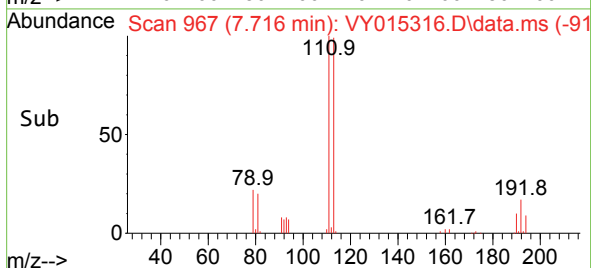
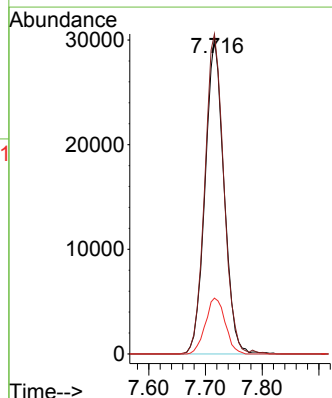
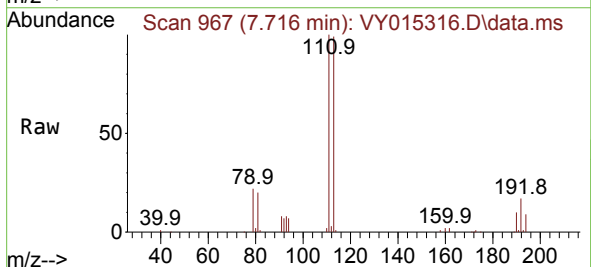
Tgt Ion:113 Resp: 69514

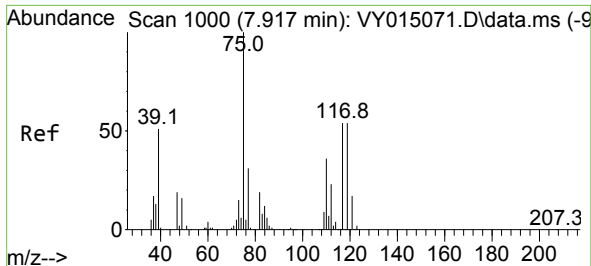
Ion Ratio Lower Upper

113 100

111 102.1 81.3 121.9

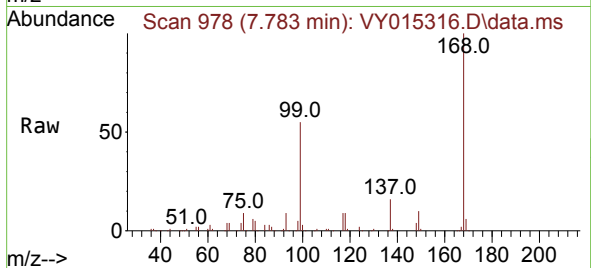
192 18.6 16.9 25.3



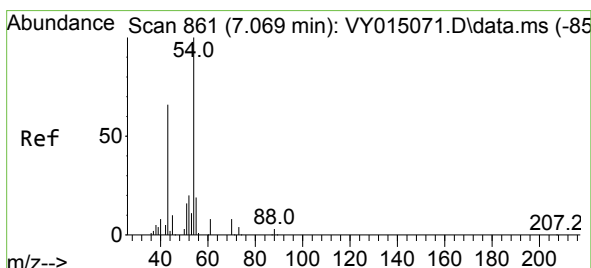
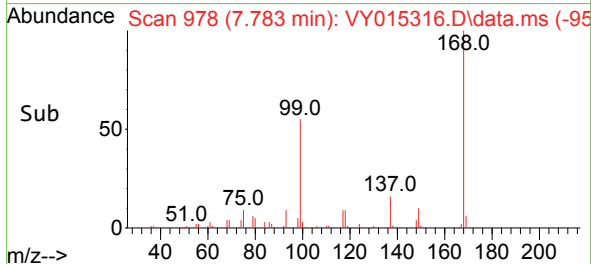
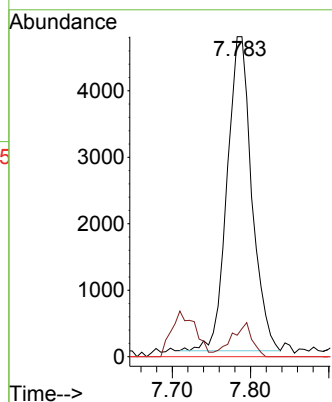


#36
1,1-Dichloropropene
Concen: 6.713 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

Instrument :
MSVOA_Y
ClientSampleId :

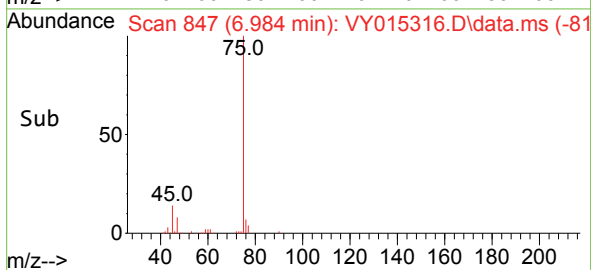
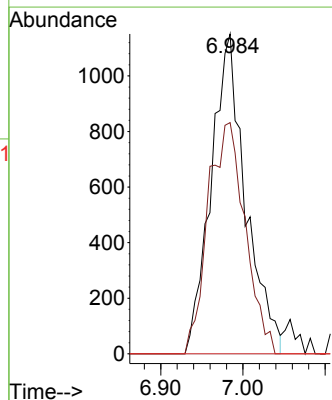
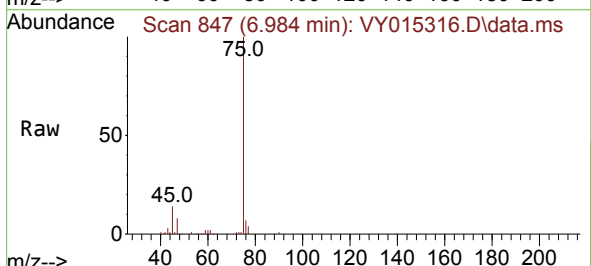


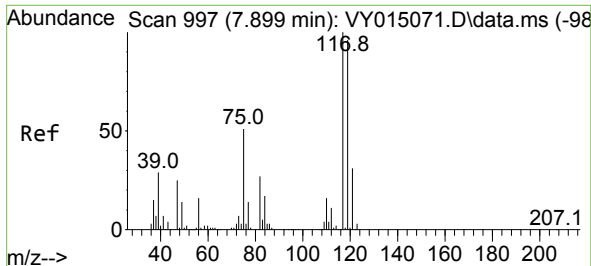
Tgt Ion: 75 Resp: 10356
Ion Ratio Lower Upper
75 100
110 9.0 17.8 53.5#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 2.339 ug/l
RT: 6.984 min Scan# 847
Delta R.T. -0.085 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

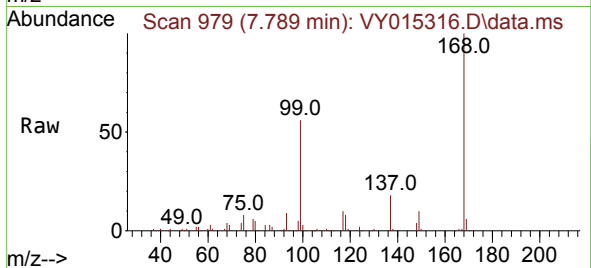
Tgt Ion: 43 Resp: 3364
Ion Ratio Lower Upper
43 100
61 77.6 10.1 15.1#
70 0.0 7.1 10.7#



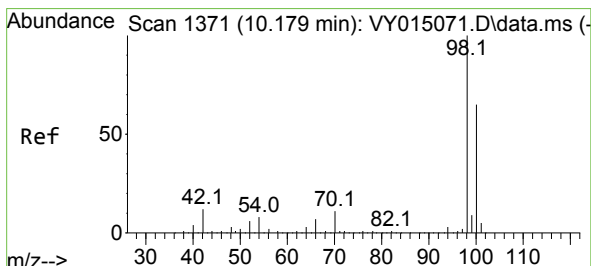
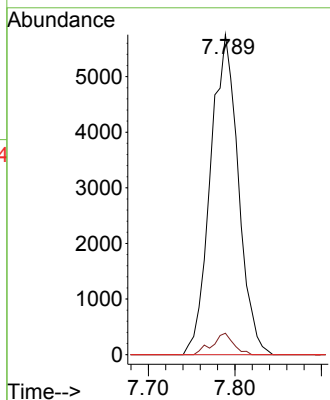
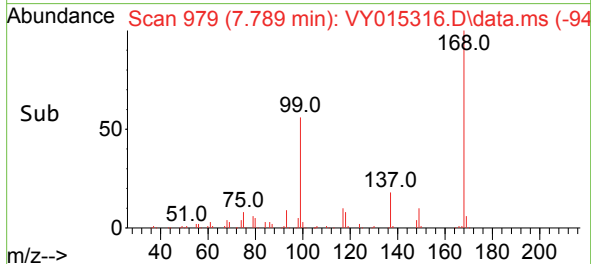


#38
Carbon Tetrachloride
Concen: 7.047 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

Instrument :
MSVOA_Y
ClientSampleId :

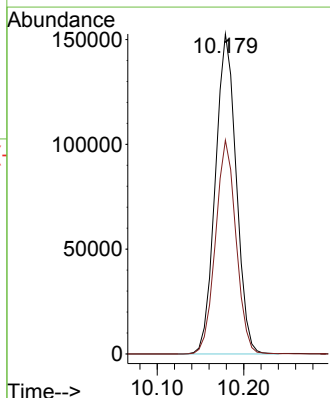
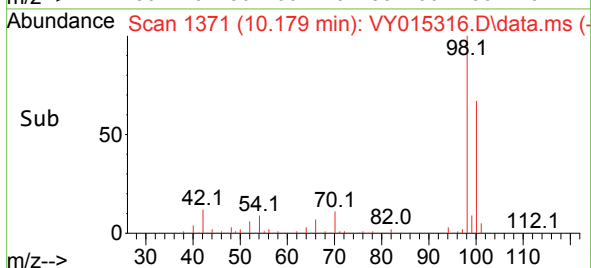
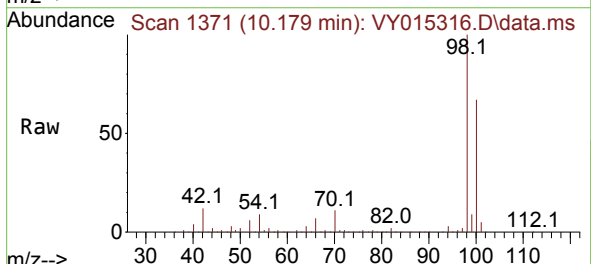


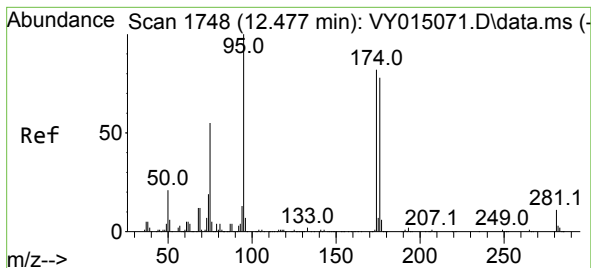
Tgt Ion:117 Resp: 12865
Ion Ratio Lower Upper
117 100
119 6.7 76.4 114.6#
121 0.0 25.8 38.6#



#50
Toluene-d8
Concen: 49.246 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

Tgt Ion: 98 Resp: 255625
Ion Ratio Lower Upper
98 100
100 65.6 50.1 75.1

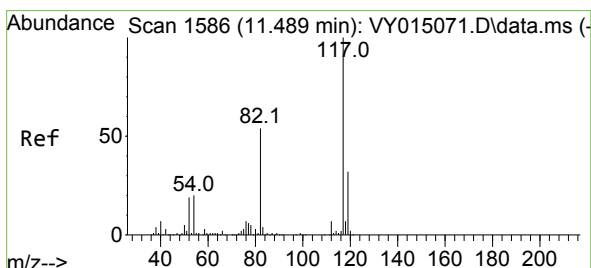
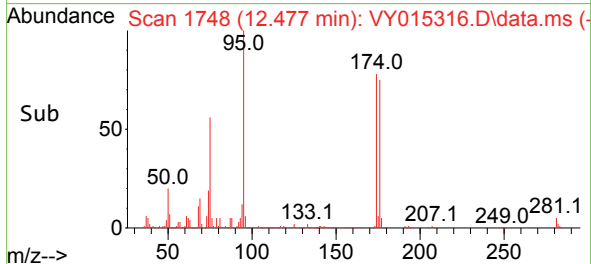
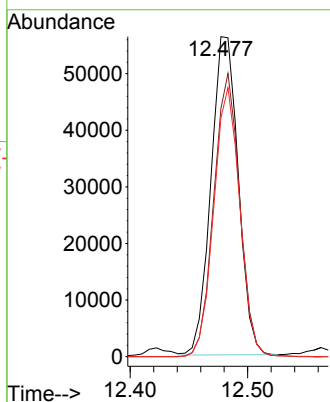
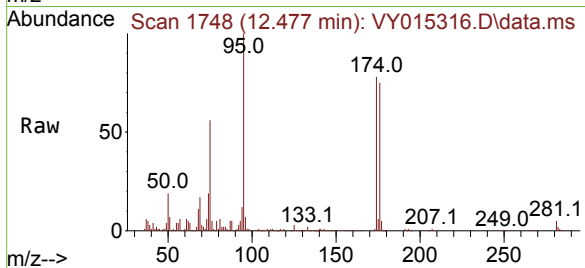




#62
4-Bromofluorobenzene
Concen: 47.866 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

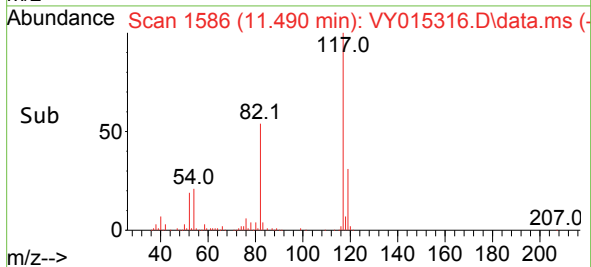
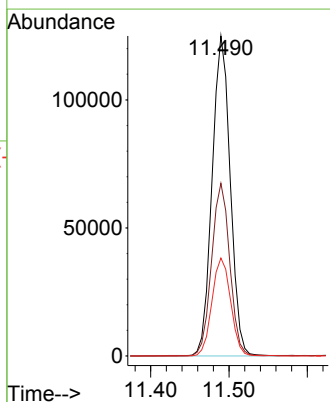
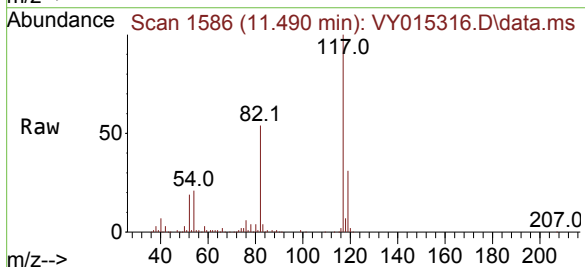
Instrument :
MSVOA_Y
ClientSampleId :

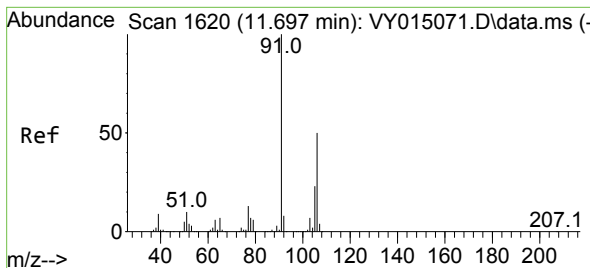
Tgt Ion: 95 Resp: 90749
Ion Ratio Lower Upper
95 100
174 84.6 0.0 178.2
176 81.0 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

Tgt Ion: 117 Resp: 201096
Ion Ratio Lower Upper
117 100
82 53.8 43.4 65.0
119 30.6 26.3 39.5

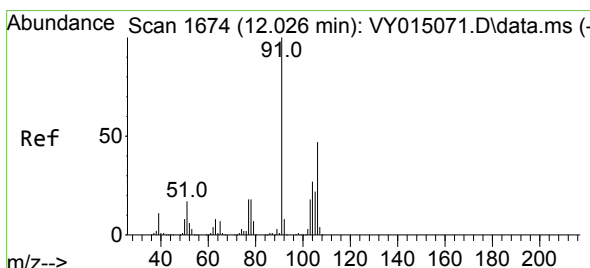
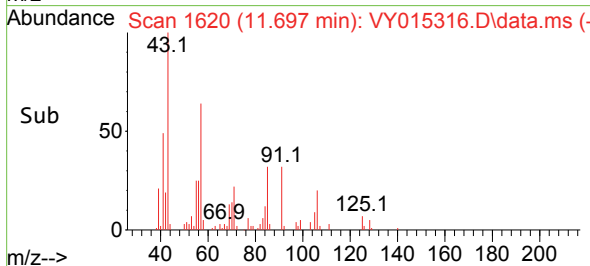
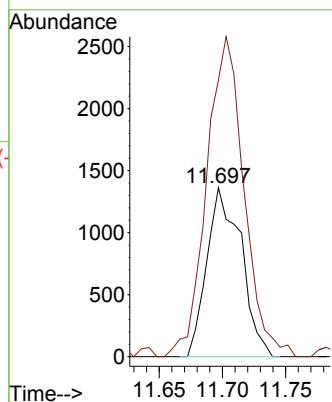
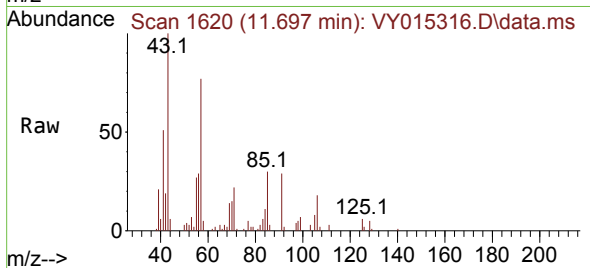




#68
m/p-Xylenes
Concen: 1.052 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

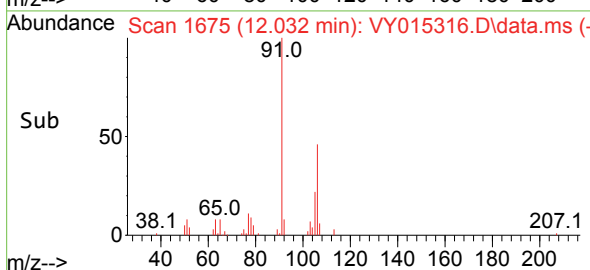
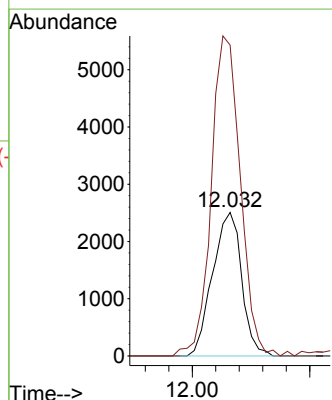
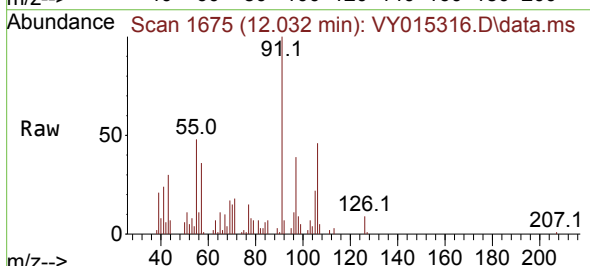
Instrument :
MSVOA_Y
ClientSampleId :

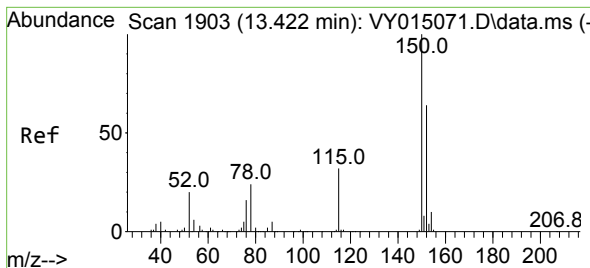
Tgt Ion:106 Resp: 2565
Ion Ratio Lower Upper
106 100
91 206.5 166.1 249.1



#69
o-Xylene
Concen: 1.776 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. 0.006 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

Tgt Ion:106 Resp: 4313
Ion Ratio Lower Upper
106 100
91 222.2 108.1 324.3

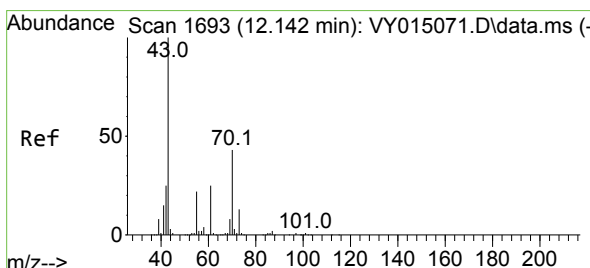
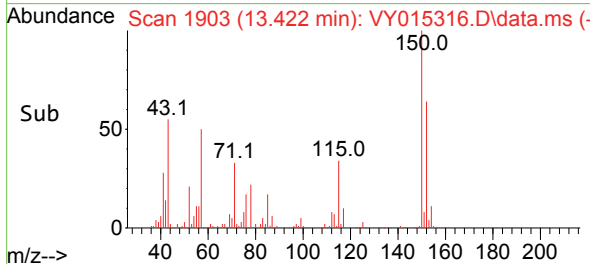
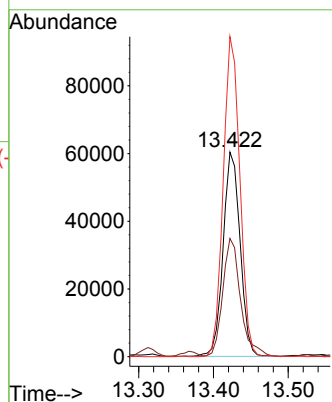
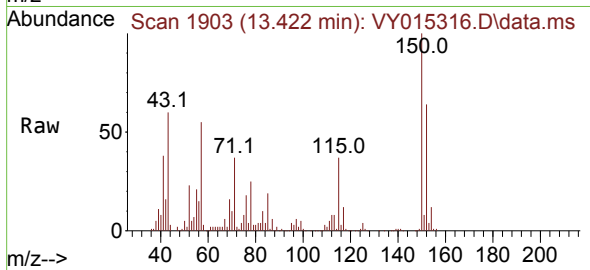




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

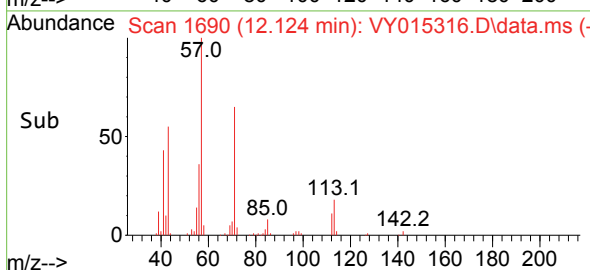
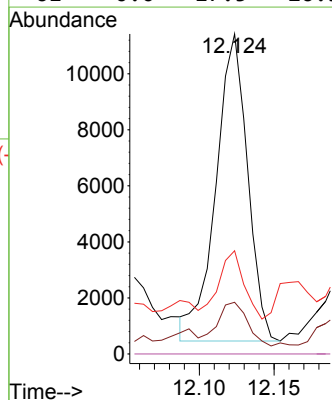
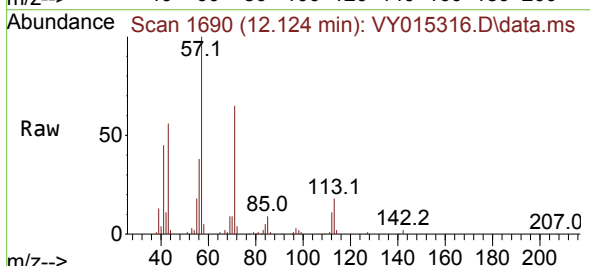
Instrument :
MSVOA_Y
ClientSampleId :

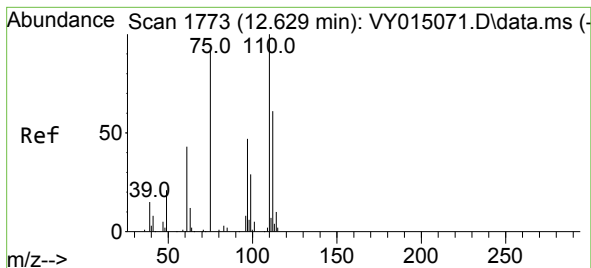
Tgt Ion:152 Resp: 95589
Ion Ratio Lower Upper
152 100
115 60.6 28.8 86.5
150 153.3 0.0 348.8



#74
N-ethyl acetate
Concen: 7.274 ug/l
RT: 12.124 min Scan# 1690
Delta R.T. -0.018 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

Tgt Ion: 43 Resp: 16142
Ion Ratio Lower Upper
43 100
70 13.0 29.7 44.5#
55 17.7 18.3 27.5#
61 0.0 17.5 26.3#





#76

1,2,3-Trichloropropane

Concen: 42.734 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.152 min

Lab File: VY015316.D

Acq: 24 Aug 2023 16:55

Instrument :

MSVOA_Y

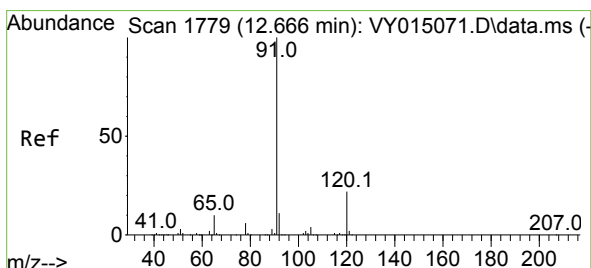
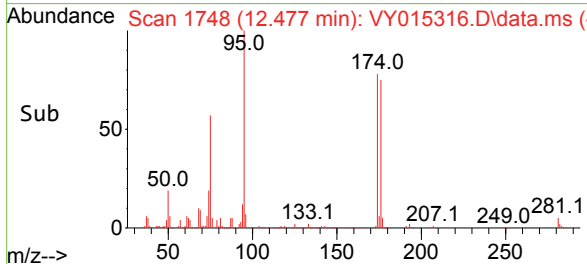
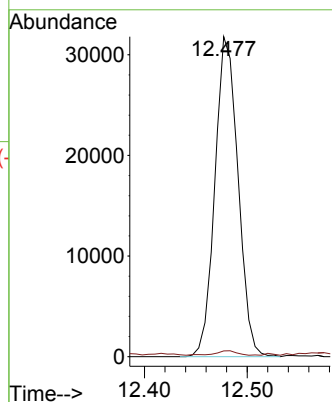
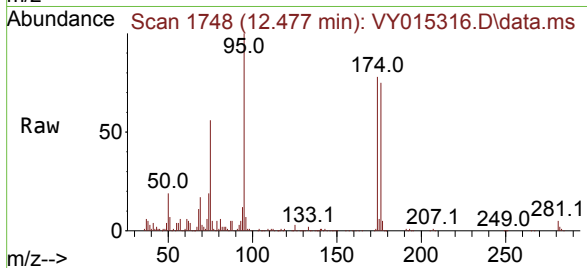
ClientSampleId :

Tgt Ion: 75 Resp: 49629

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#78

n-propylbenzene

Concen: 1.039 ug/l

RT: 12.666 min Scan# 1779

Delta R.T. 0.000 min

Lab File: VY015316.D

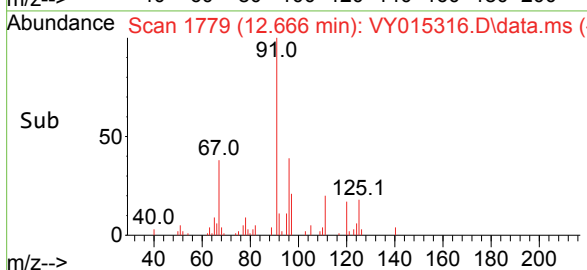
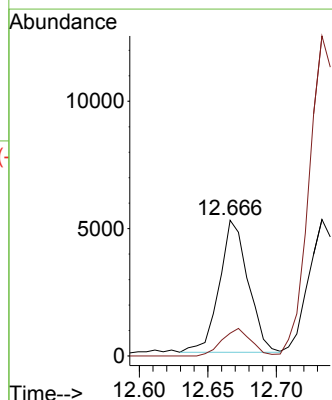
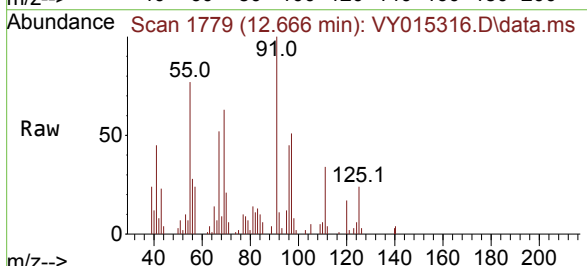
Acq: 24 Aug 2023 16:55

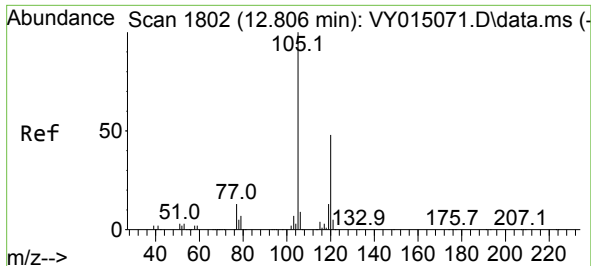
Tgt Ion: 91 Resp: 7584

Ion Ratio Lower Upper

91 100

120 21.0 11.5 34.4

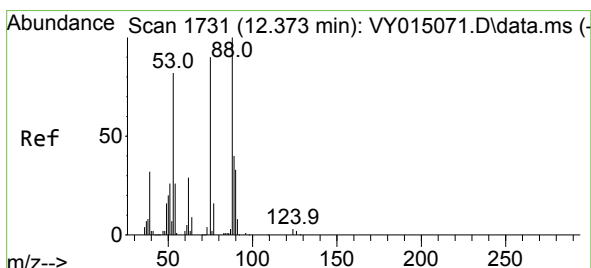
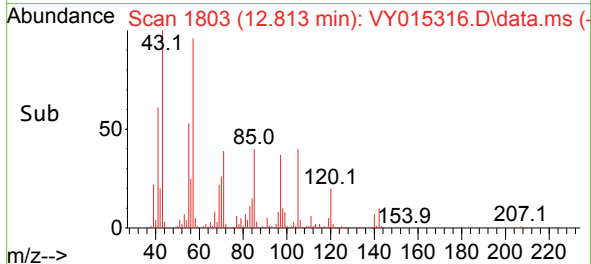
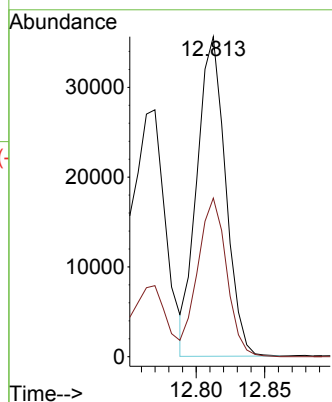
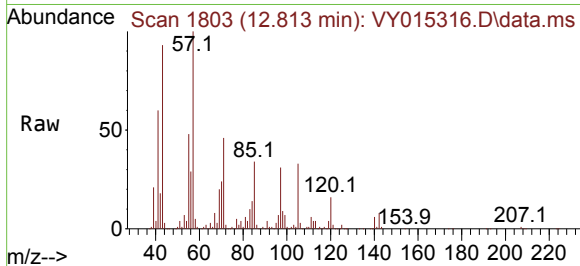




#80
1,3,5-Trimethylbenzene
Concen: 10.068 ug/l
RT: 12.813 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

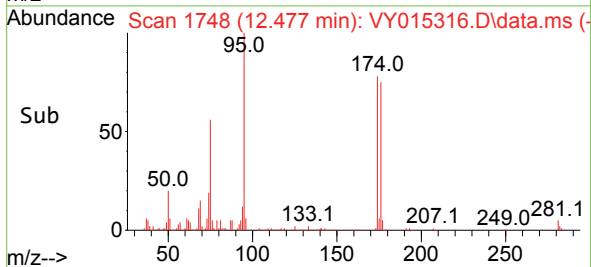
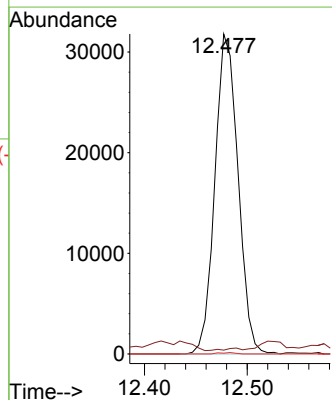
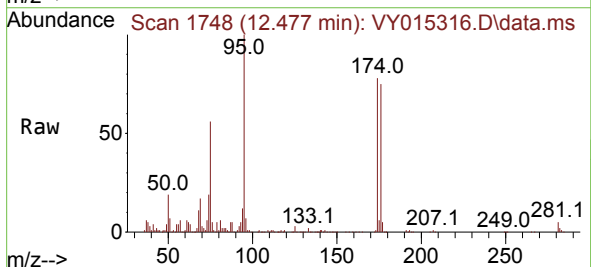
Instrument :
MSVOA_Y
ClientSampleId :

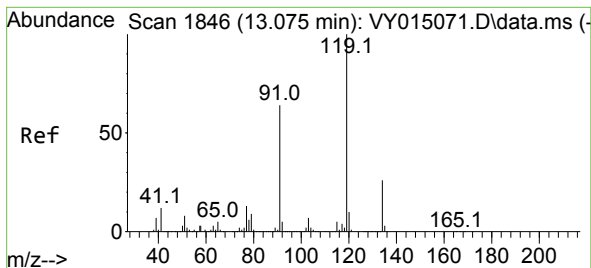
Tgt Ion:105 Resp: 51588
Ion Ratio Lower Upper
105 100
120 50.1 23.9 71.7



#81
trans-1,4-Dichloro-2-butene
Concen: 93.865 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.104 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

Tgt Ion: 75 Resp: 49629
Ion Ratio Lower Upper
75 100
53 0.4 77.8 116.8#
89 0.3 37.4 56.0#





#83

tert-Butylbenzene

Concen: 2.663 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.043 min

Lab File: VY015316.D

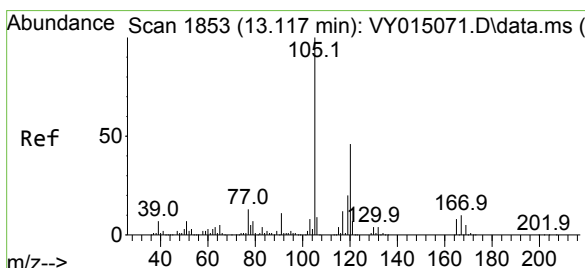
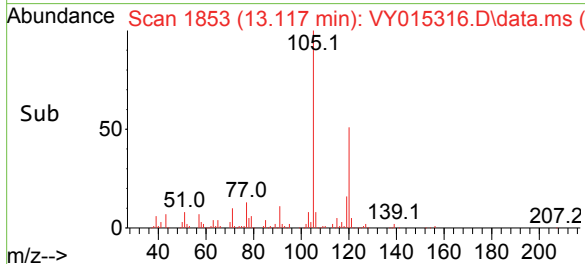
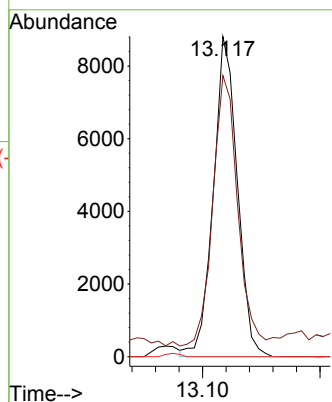
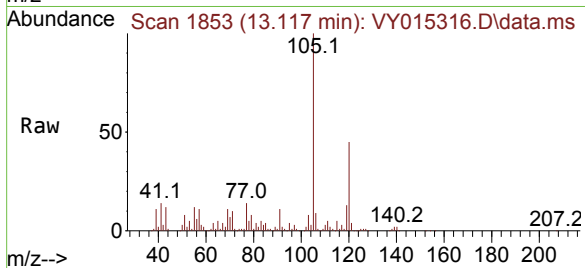
Acq: 24 Aug 2023 16:55

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	119	Resp:	12481
Ion Ratio	Lower	Upper	
119	100		
91	86.9	32.9	98.6
134	0.0	13.0	38.9#



#84

1,2,4-Trimethylbenzene

Concen: 19.637 ug/l

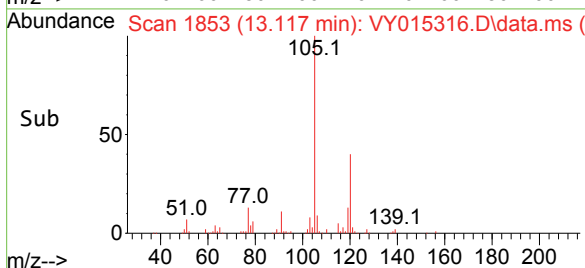
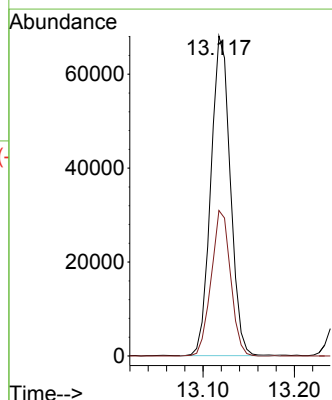
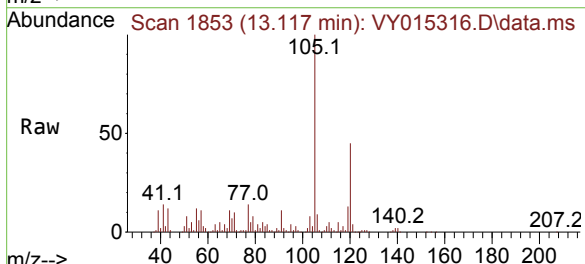
RT: 13.117 min Scan# 1853

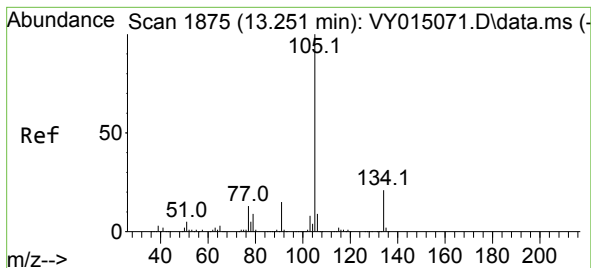
Delta R.T. 0.000 min

Lab File: VY015316.D

Acq: 24 Aug 2023 16:55

Tgt Ion:	105	Resp:	100541
Ion Ratio	Lower	Upper	
105	100		
120	45.2	22.2	66.6





#85

sec-Butylbenzene

Concen: 2.770 ug/l

RT: 13.251 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VY015316.D

Acq: 24 Aug 2023 16:55

Instrument :

MSVOA_Y

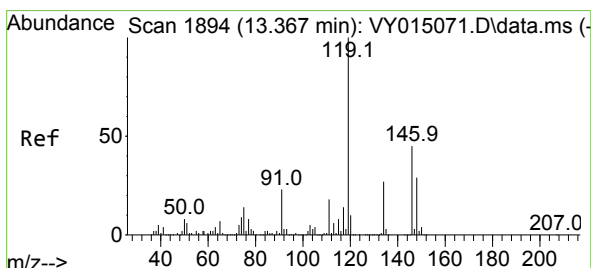
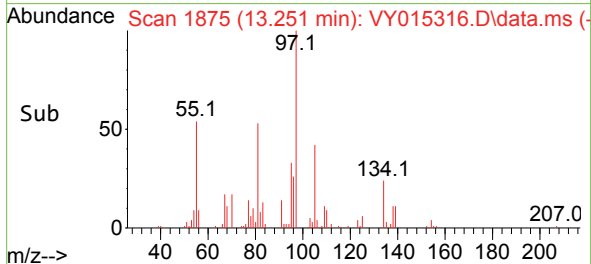
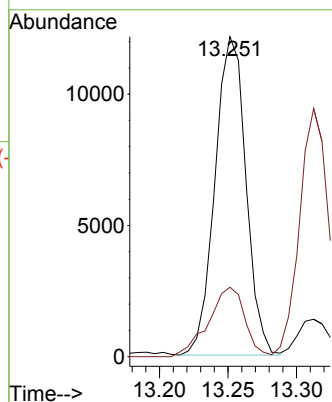
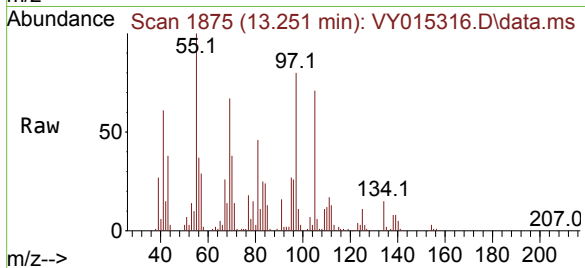
ClientSampleId :

Tgt Ion:105 Resp: 19018

Ion Ratio Lower Upper

105 100

134 25.7 10.2 30.6



#86

p-Isopropyltoluene

Concen: 5.325 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. 0.000 min

Lab File: VY015316.D

Acq: 24 Aug 2023 16:55

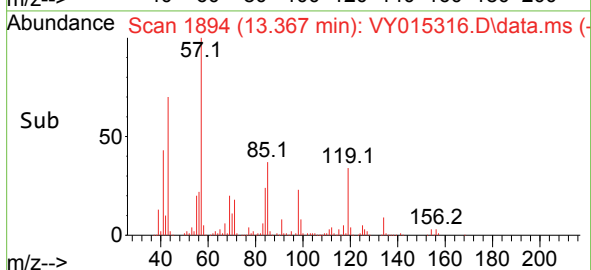
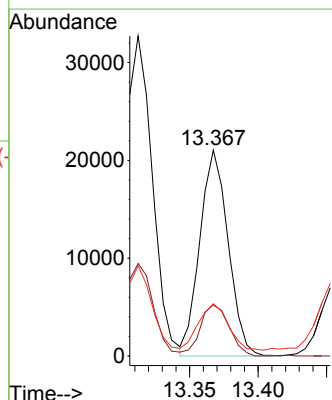
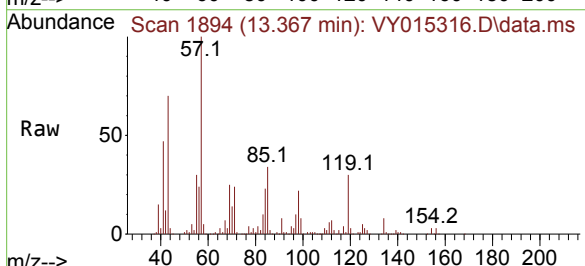
Tgt Ion:119 Resp: 30315

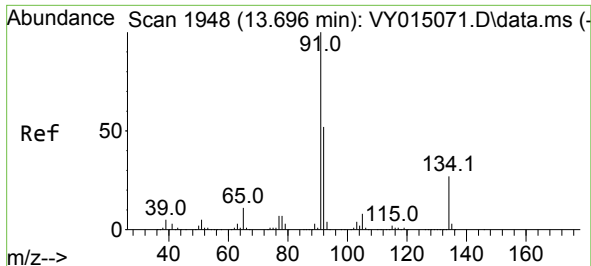
Ion Ratio Lower Upper

119 100

134 25.2 13.3 39.8

91 23.2 12.4 37.4

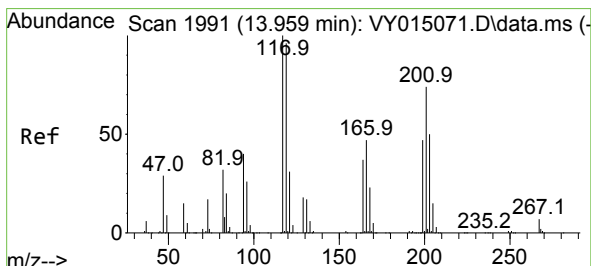
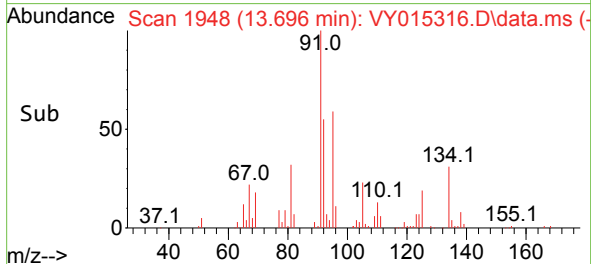
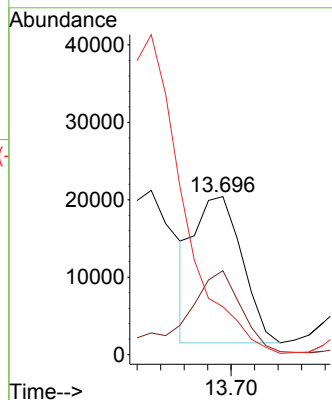
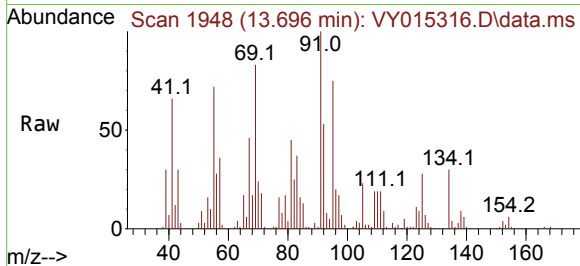




#89
n-Butylbenzene
Concen: 4.939 ug/l
RT: 13.696 min Scan# 1948
Delta R.T. 0.000 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

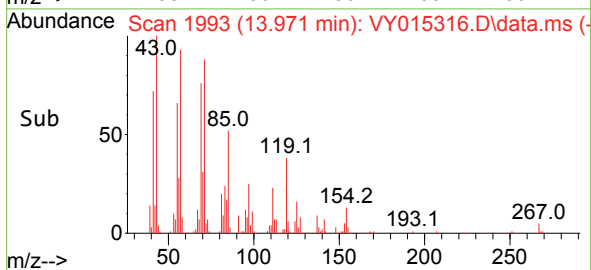
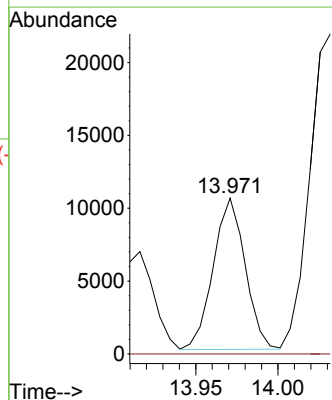
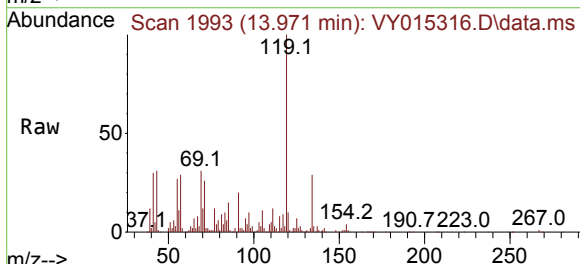
Instrument :
MSVOA_Y
ClientSampleId :

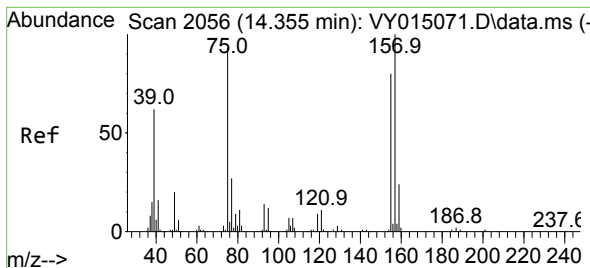
Tgt Ion: 91 Resp: 26512
Ion Ratio Lower Upper
91 100
92 67.8 25.4 76.0
134 0.0 12.6 37.6#



#90
Hexachloroethane
Concen: 12.432 ug/l
RT: 13.971 min Scan# 1993
Delta R.T. 0.012 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

Tgt Ion: 117 Resp: 14041
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#

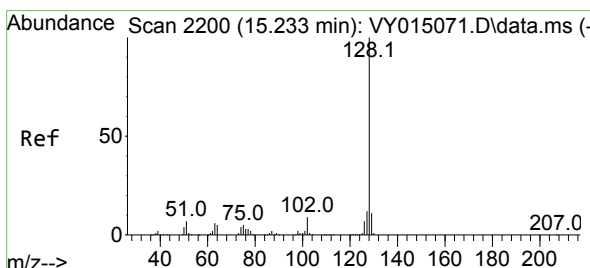
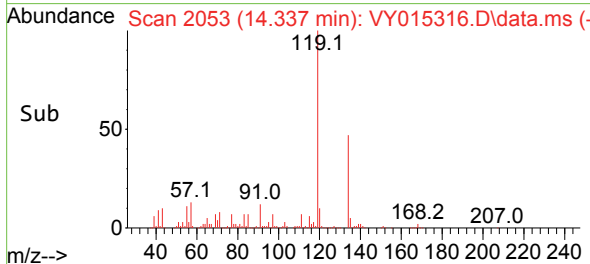
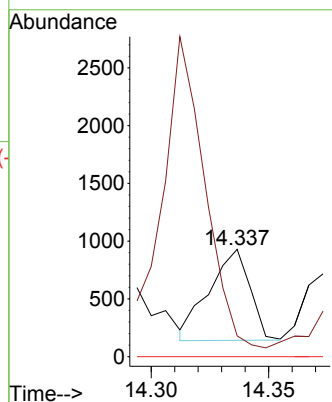
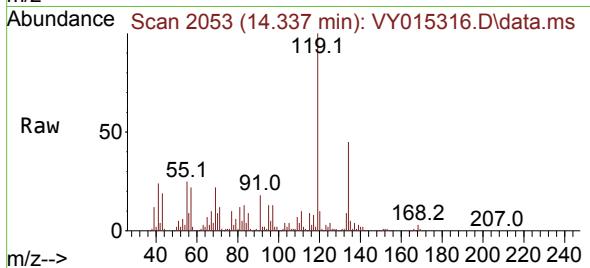




#92
1,2-Dibromo-3-Chloropropane
Concen: 3.073 ug/l
RT: 14.337 min Scan# 2053
Delta R.T. -0.018 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

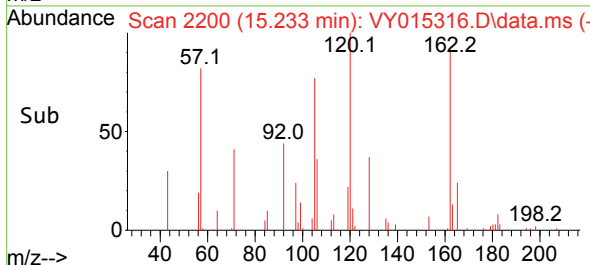
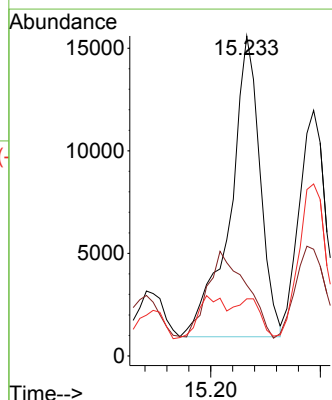
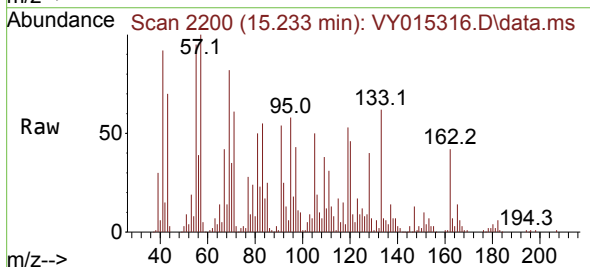
Instrument :
MSVOA_Y
ClientSampleId :

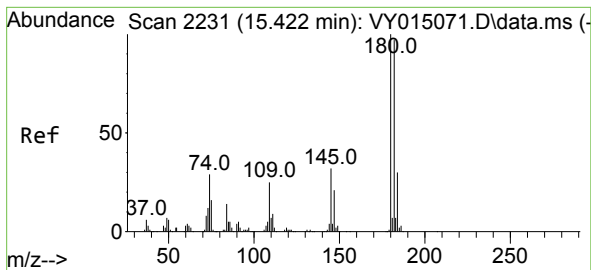
Tgt Ion: 75 Resp: 953
Ion Ratio Lower Upper
75 100
155 0.0 41.5 124.6#
157 0.0 51.8 155.5#



#95
Naphthalene
Concen: 6.249 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. 0.000 min
Lab File: VY015316.D
Acq: 24 Aug 2023 16:55

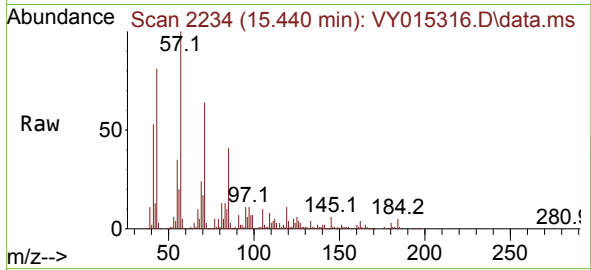
Tgt Ion: 128 Resp: 27745
Ion Ratio Lower Upper
128 100
127 0.0 10.8 16.2#
129 8.7 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 4.751 ug/l
 RT: 15.440 min Scan# 21
 Delta R.T. 0.018 min
 Lab File: VY015316.D
 Acq: 24 Aug 2023 16:55

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:180 Resp: 7648
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.3 141.8#
 145 529.4 15.4 46.2#

