

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100323\
 Data File : VY015805.D
 Acq On : 03 Oct 2023 14:57
 Operator : SY/MD
 Sample : 04685-04RE
 Misc : 6.09g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 04 01:11:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y091923S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 20 01:39:40 2023
 Response via : Initial Calibration

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

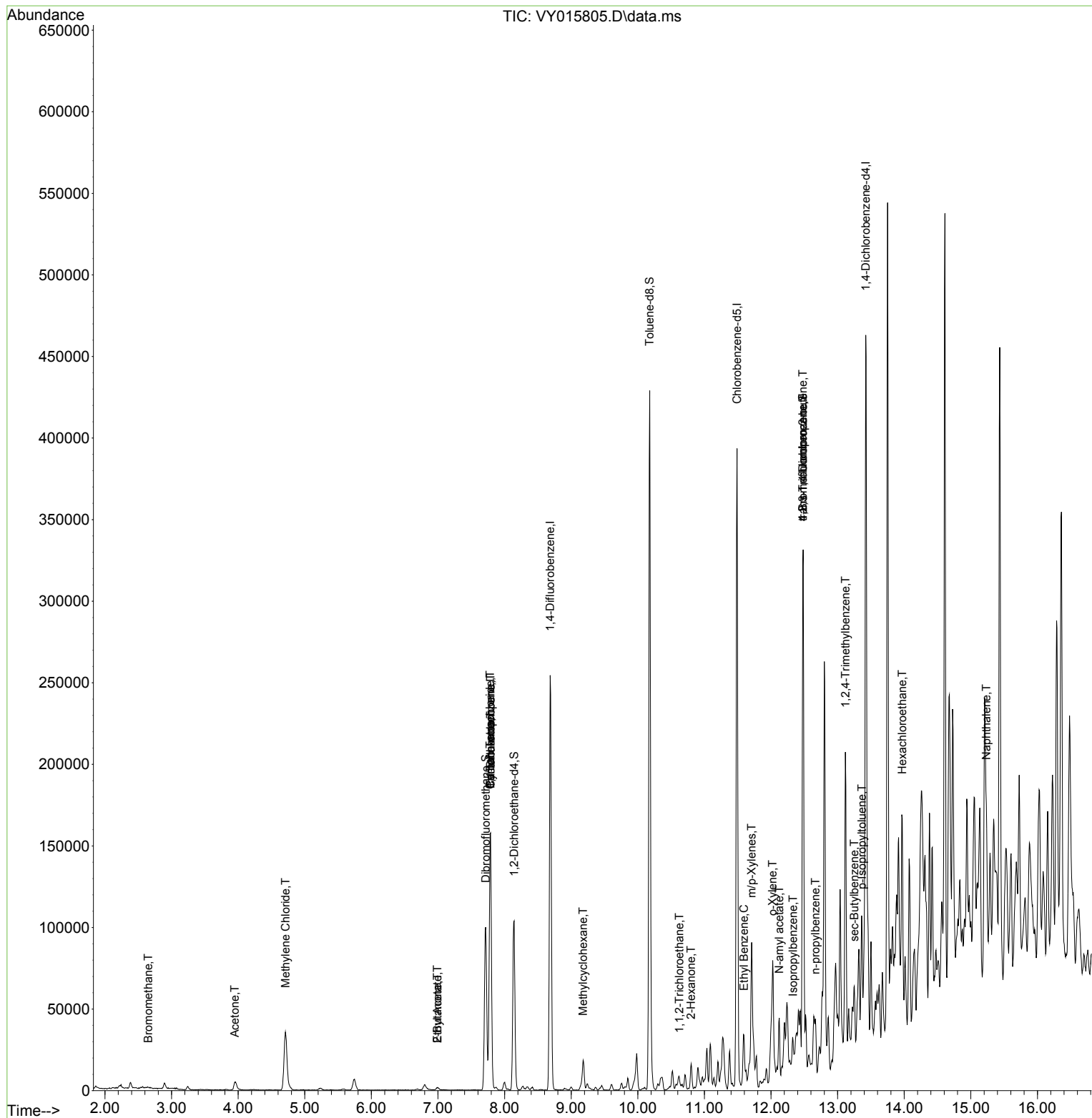
Internal Standards						
1) Pentafluorobenzene	7.789	168	121460	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	218860	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	210155	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	100641	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	81728	61.155	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 122.320%			
35) Dibromofluoromethane	7.716	113	71599	54.658	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 109.320%			
50) Toluene-d8	10.179	98	266691	60.044	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 120.080%			
62) 4-Bromofluorobenzene	12.477	95	94659	54.307	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 108.620%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.650	94	107	2.645	ug/l	86
11) Tert butyl alcohol	4.960	59	318	Below Cal	#	89
16) Acetone	3.948	43	10074	14.086	ug/l #	86
20) Methylene Chloride	4.710	84	27074	13.780	ug/l	92
25) 2-Butanone	6.990	43	2088	2.066	ug/l	96
31) Cyclohexane	7.789	56	3627	1.959	ug/l #	10
36) 1,1-Dichloropropene	7.789	75	9542	4.927	ug/l #	50
37) Ethyl Acetate	6.990	43	1970	1.020	ug/l #	71
38) Carbon Tetrachloride	7.783	117	12254	5.829	ug/l #	18
39) Methylcyclohexane	9.179	83	7021	3.277	ug/l	92
55) 1,1,2-Trichloroethane	10.624	97	3130	2.027	ug/l #	20
59) 2-Hexanone	10.801	43	5553	3.538	ug/l #	32
67) Ethyl Benzene	11.593	91	20216	2.521	ug/l	99
68) m/p-Xylenes	11.709	106	8706	2.857	ug/l	99
69) o-Xylene	12.026	106	16214	5.426	ug/l	96
73) Isopropylbenzene	12.331	105	11204	1.484	ug/l	99
74) N-amyl acetate	12.123	43	7488	2.639	ug/l #	69
76) 1,2,3-Trichloropropane	12.477	75	50298	31.327	ug/l #	100
78) n-propylbenzene	12.666	91	23754	2.590	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.477	75	50298	70.546	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.117	105	93382	14.766	ug/l	98
85) sec-Butylbenzene	13.251	105	17448	2.106	ug/l	91
86) p-Isopropyltoluene	13.367	119	9370	1.354	ug/l	99
90) Hexachloroethane	13.971	117	3840	2.875	ug/l #	8
95) Naphthalene	15.233	128	59462	10.673	ug/l	95

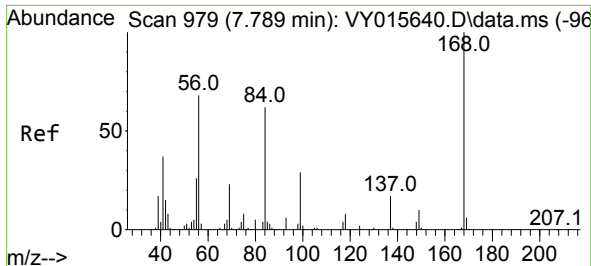
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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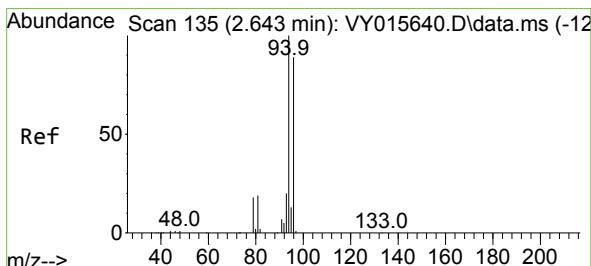
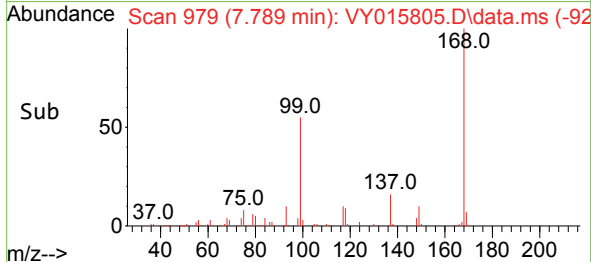
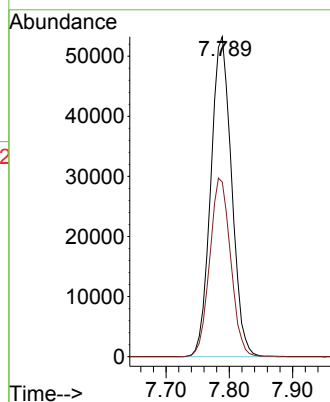
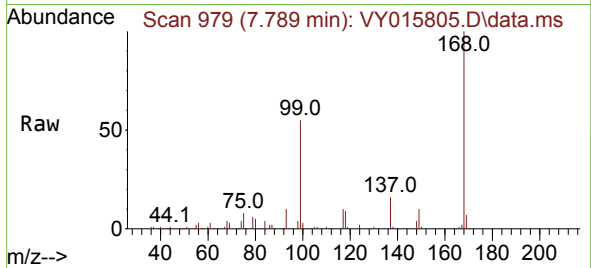




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015805.D
Acq: 03 Oct 2023 14:57

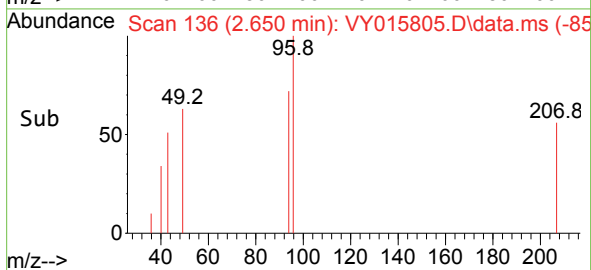
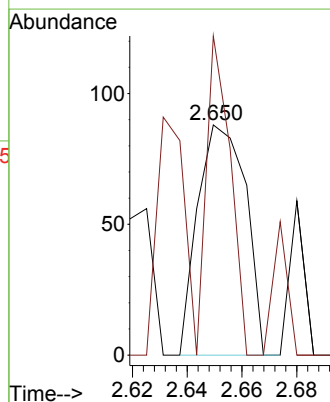
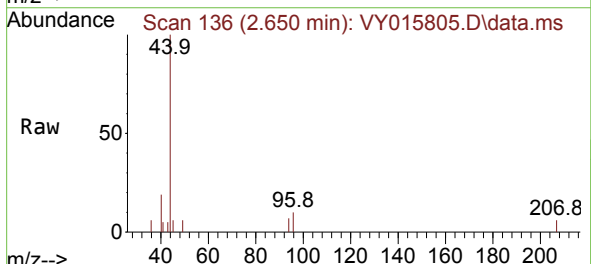
Instrument :
MSVOA_Y
ClientSampleId :

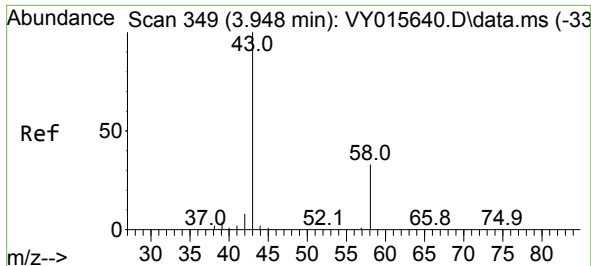
Tgt Ion:168 Resp: 121460
Ion Ratio Lower Upper
168 100
99 54.6 43.4 65.0



#5
Bromomethane
Concen: 2.645 ug/l
RT: 2.650 min Scan# 136
Delta R.T. 0.013 min
Lab File: VY015805.D
Acq: 03 Oct 2023 14:57

Tgt Ion: 94 Resp: 107
Ion Ratio Lower Upper
94 100
96 80.7 75.8 113.6





#16

Acetone

Concen: 14.086 ug/l

RT: 3.948 min Scan# 349

Delta R.T. 0.006 min

Lab File: VY015805.D

Acq: 03 Oct 2023 14:57

Instrument :

MSVOA_Y

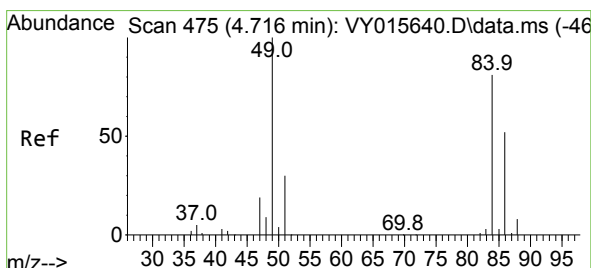
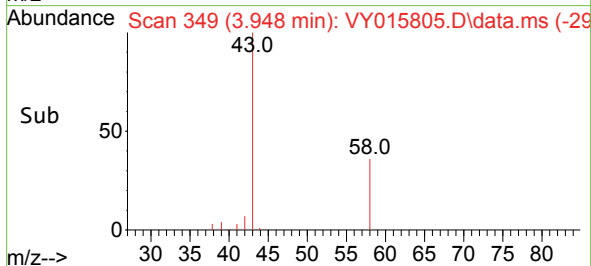
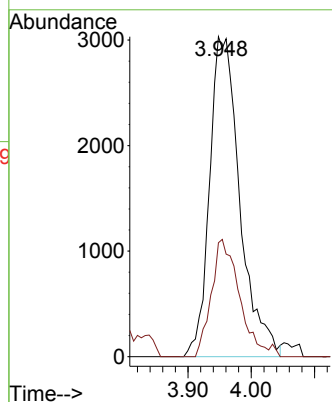
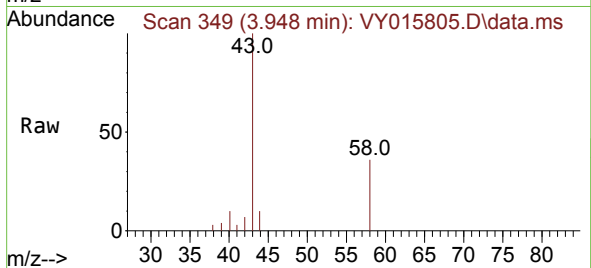
ClientSampleId :

Tgt Ion: 43 Resp: 10074

Ion Ratio Lower Upper

43 100

58 35.6 22.7 34.1#



#20

Methylene Chloride

Concen: 13.780 ug/l

RT: 4.710 min Scan# 474

Delta R.T. 0.006 min

Lab File: VY015805.D

Acq: 03 Oct 2023 14:57

Tgt Ion: 84 Resp: 27074

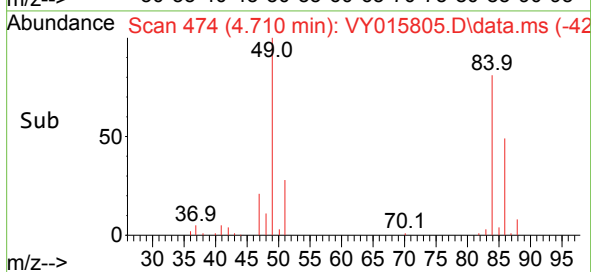
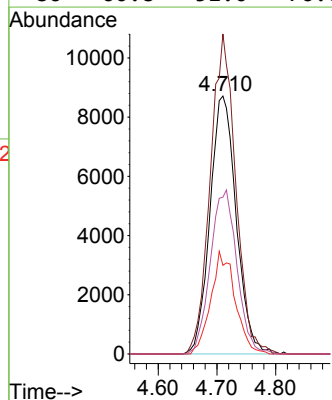
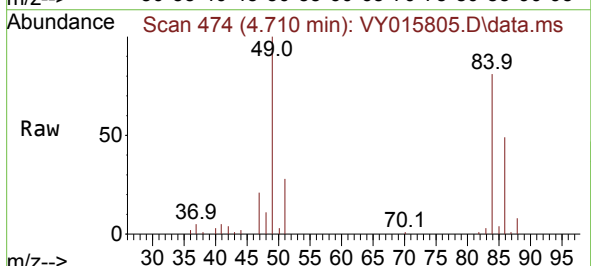
Ion Ratio Lower Upper

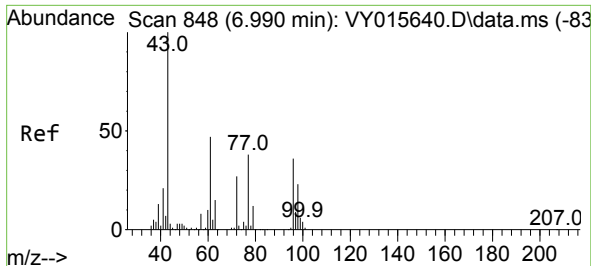
84 100

49 124.1 106.9 160.3

51 34.4 33.2 49.8

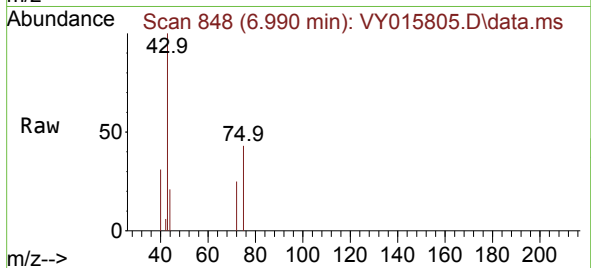
86 60.8 51.0 76.6



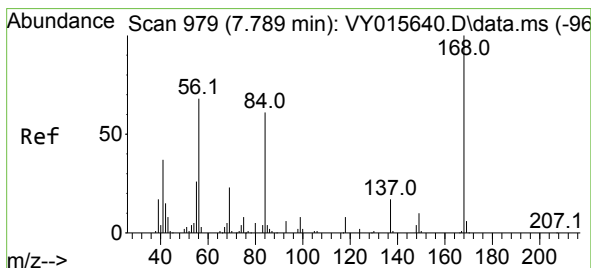
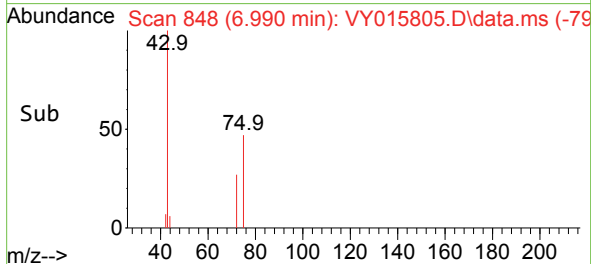
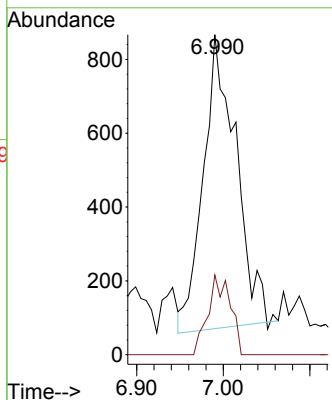


#25
2-Butanone
Concen: 2.066 ug/l
RT: 6.990 min Scan# 848
Delta R.T. 0.012 min
Lab File: VY015805.D
Acq: 03 Oct 2023 14:57

Instrument :
MSVOA_Y
ClientSampleId :

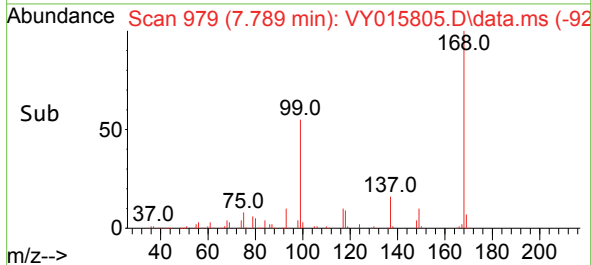
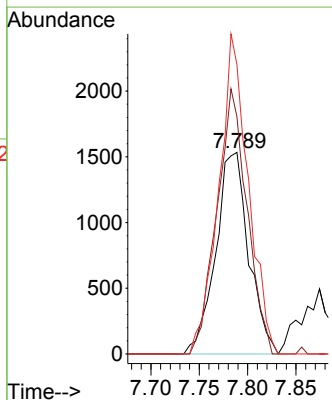
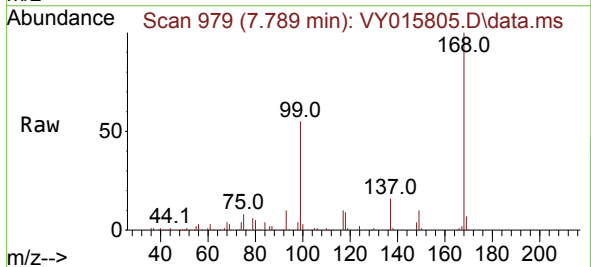


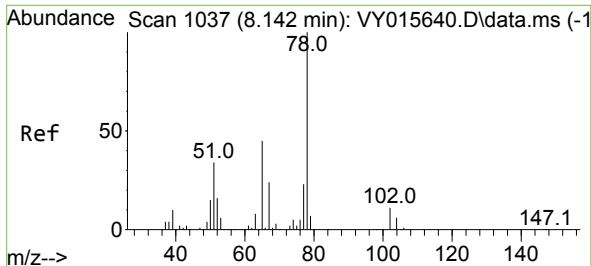
Tgt Ion: 43 Resp: 2088
Ion Ratio Lower Upper
43 100
72 27.9 20.5 30.7



#31
Cyclohexane
Concen: 1.959 ug/l
RT: 7.789 min Scan# 979
Delta R.T. 0.006 min
Lab File: VY015805.D
Acq: 03 Oct 2023 14:57

Tgt Ion: 56 Resp: 3627
Ion Ratio Lower Upper
56 100
69 117.7 27.8 41.6#
84 143.6 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 61.155 ug/l

RT: 8.142 min Scan# 1037

Delta R.T. 0.006 min

Lab File: VY015805.D

Acq: 03 Oct 2023 14:57

Instrument :

MSVOA_Y

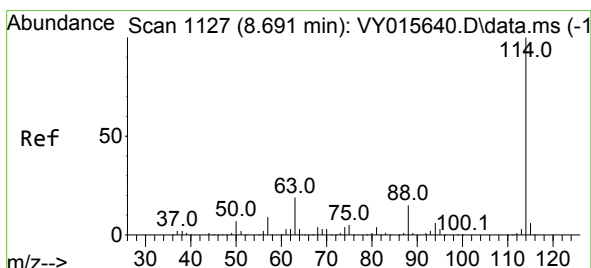
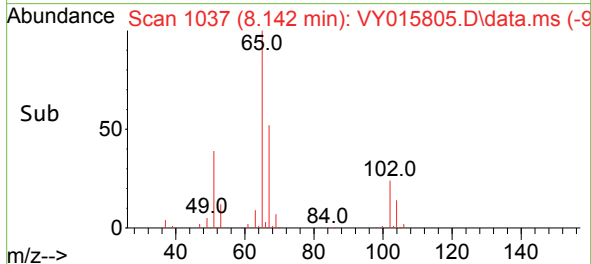
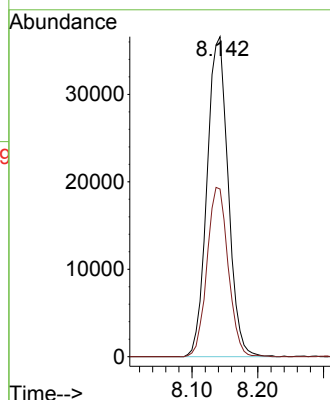
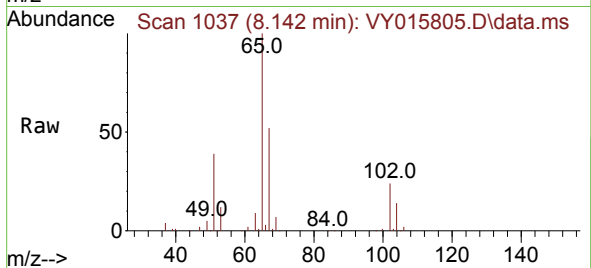
ClientSampleId :

Tgt Ion: 65 Resp: 81728

Ion Ratio Lower Upper

65 100

67 53.1 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY015805.D

Acq: 03 Oct 2023 14:57

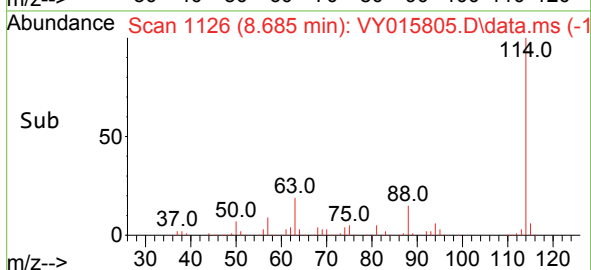
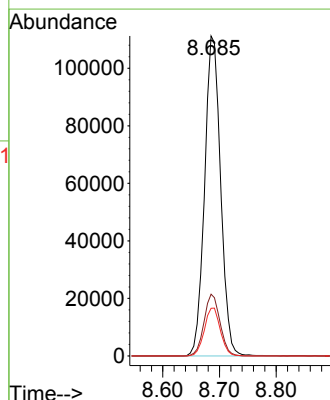
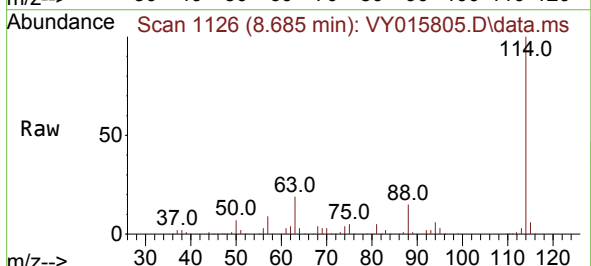
Tgt Ion: 114 Resp: 218860

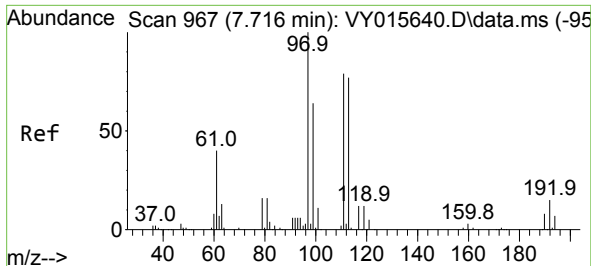
Ion Ratio Lower Upper

114 100

63 19.3 0.0 42.4

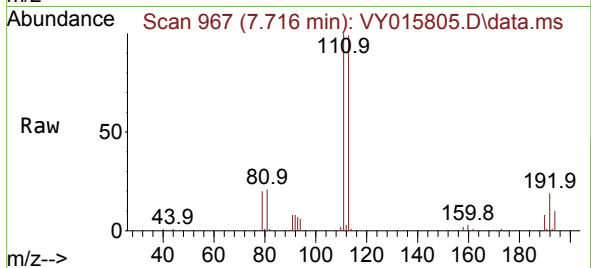
88 14.9 0.0 30.6



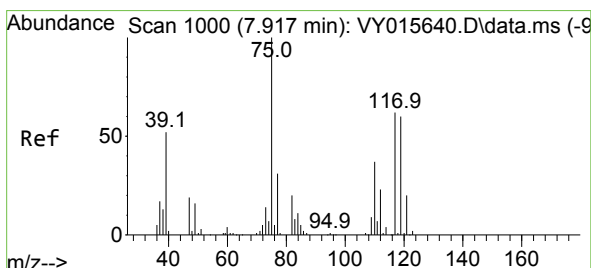
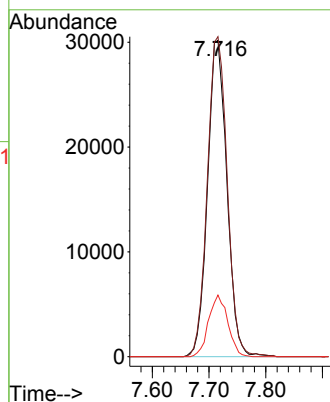
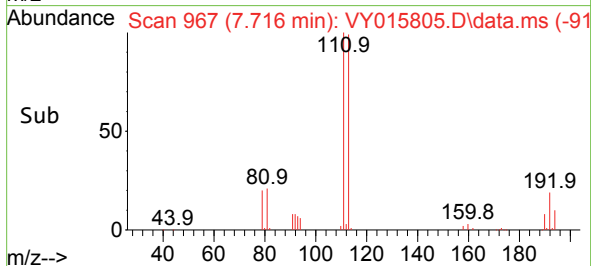


#35
Dibromofluoromethane
Concen: 54.658 ug/l
RT: 7.716 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY015805.D
Acq: 03 Oct 2023 14:57

Instrument :
MSVOA_Y
ClientSampleId :

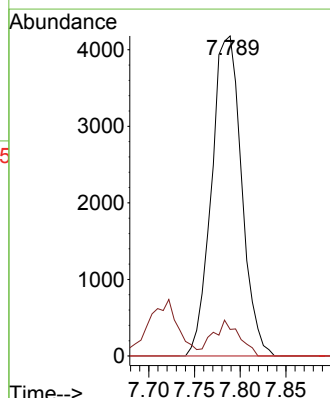
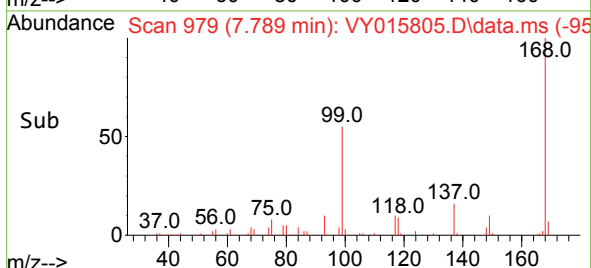
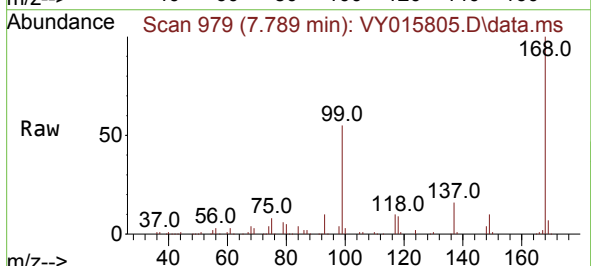


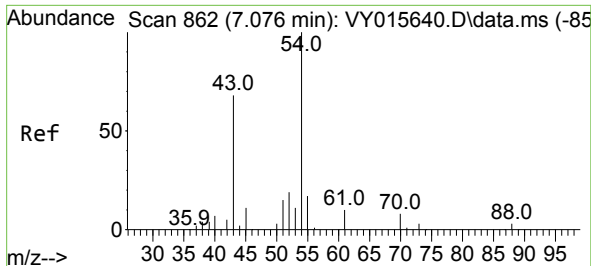
Tgt Ion:113 Resp: 71599
Ion Ratio Lower Upper
113 100
111 104.1 81.3 121.9
192 19.3 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.927 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.122 min
Lab File: VY015805.D
Acq: 03 Oct 2023 14:57

Tgt Ion: 75 Resp: 9542
Ion Ratio Lower Upper
75 100
110 9.8 17.8 53.5#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 1.020 ug/l

RT: 6.990 min Scan# 84

Delta R.T. -0.073 min

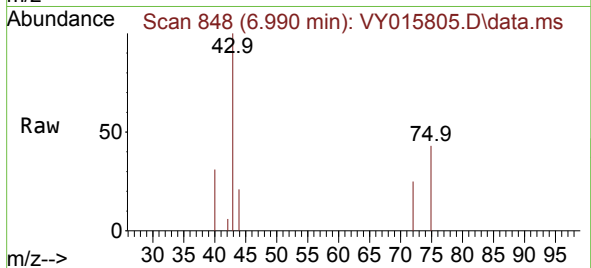
Lab File: VY015805.D

Acq: 03 Oct 2023 14:57

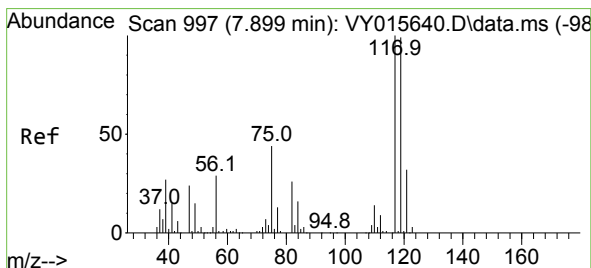
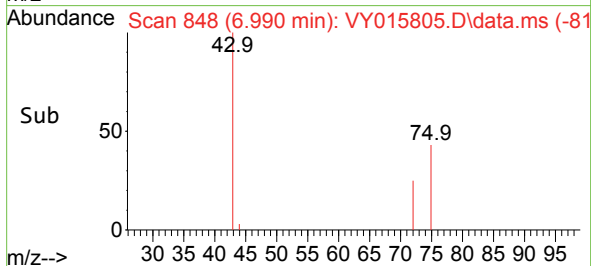
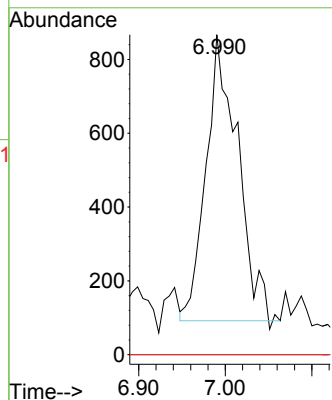
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 43	Resp: 1970
Ion Ratio	Lower Upper
43	100
61	0.0 10.1 15.1#
70	0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 5.829 ug/l

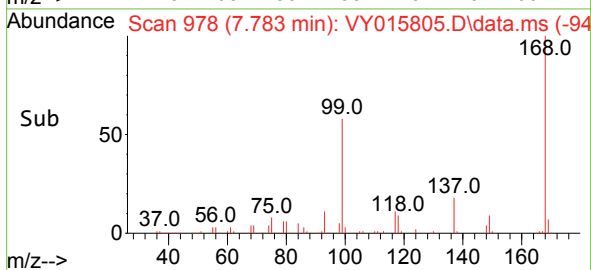
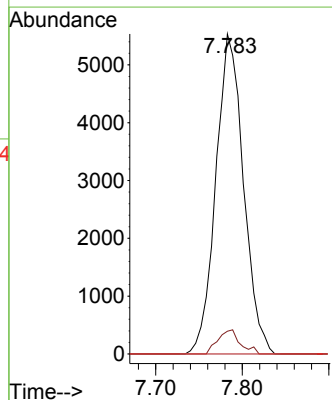
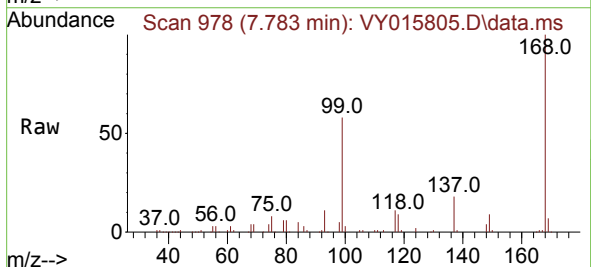
RT: 7.783 min Scan# 978

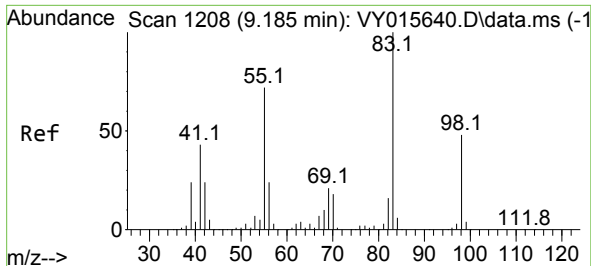
Delta R.T. -0.110 min

Lab File: VY015805.D

Acq: 03 Oct 2023 14:57

Tgt Ion: 117	Resp: 12254
Ion Ratio	Lower Upper
117	100
119	7.1 76.4 114.6#
121	0.0 25.8 38.6#





#39

Methylcyclohexane

Concen: 3.277 ug/l

RT: 9.179 min Scan# 1207

Delta R.T. -0.000 min

Lab File: VY015805.D

Acq: 03 Oct 2023 14:57

Instrument :

MSVOA_Y

ClientSampleId :

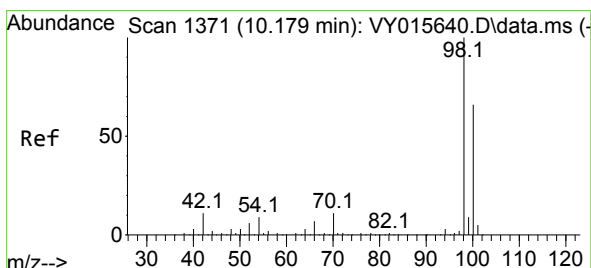
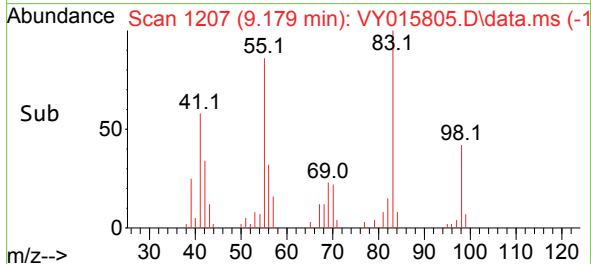
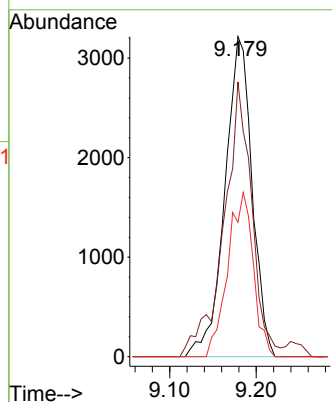
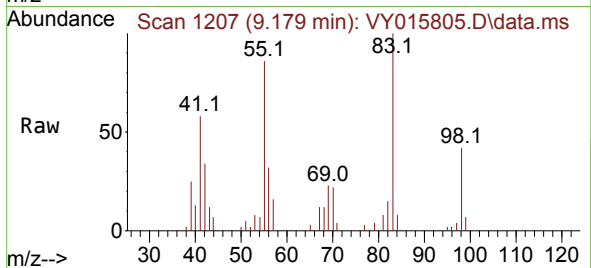
Tgt Ion: 83 Resp: 7021

Ion Ratio Lower Upper

83 100

55 85.8 63.0 94.4

98 42.0 37.4 56.2



#50

Toluene-d8

Concen: 60.044 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.000 min

Lab File: VY015805.D

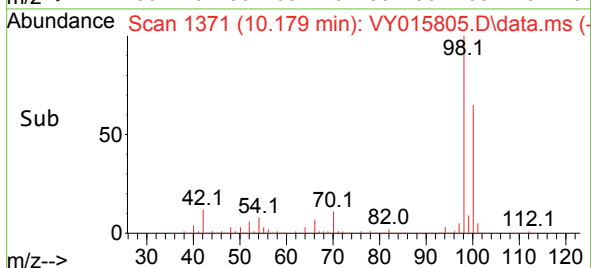
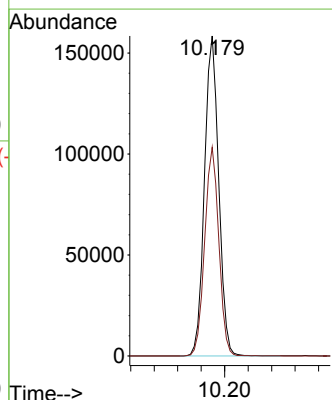
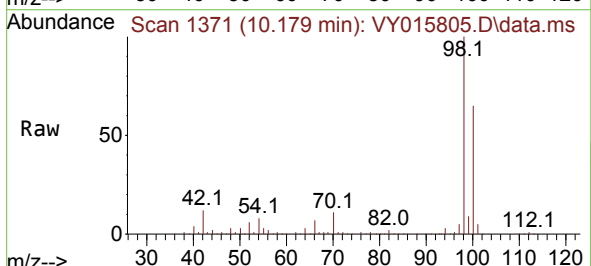
Acq: 03 Oct 2023 14:57

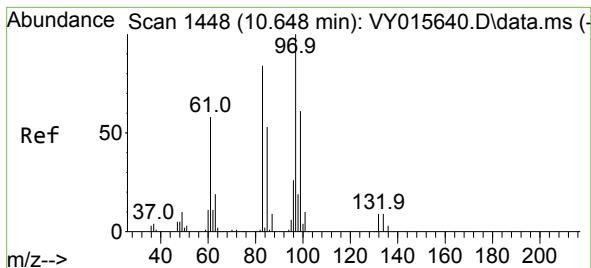
Tgt Ion: 98 Resp: 266691

Ion Ratio Lower Upper

98 100

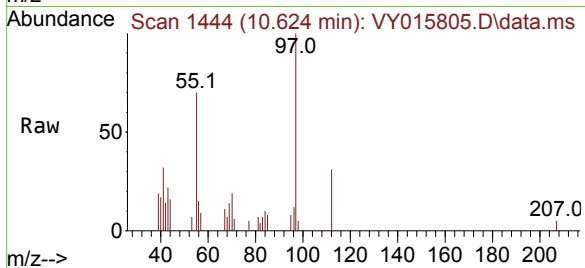
100 64.8 50.1 75.1



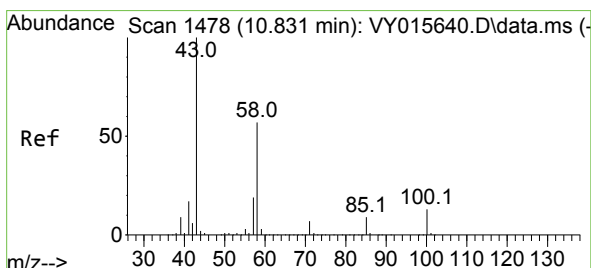
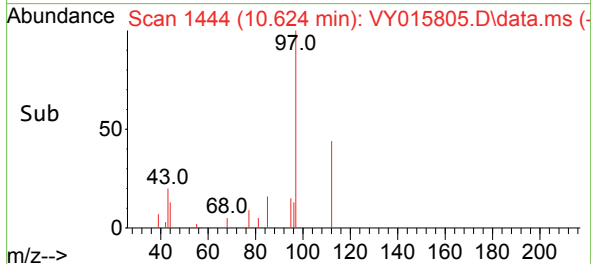
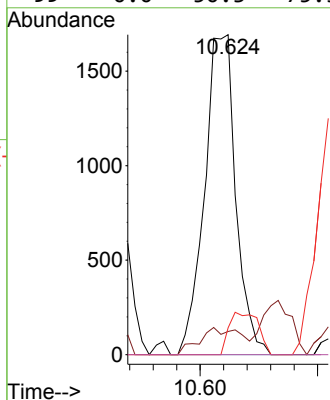


#55
 1,1,2-Trichloroethane
 Concen: 2.027 ug/l
 RT: 10.624 min Scan# 1444
 Delta R.T. -0.018 min
 Lab File: VY015805.D
 Acq: 03 Oct 2023 14:57

Instrument :
 MSVOA_Y
 ClientSampleId :

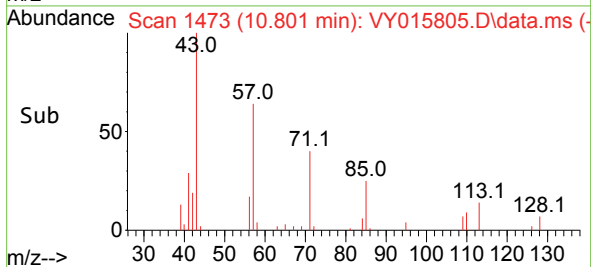
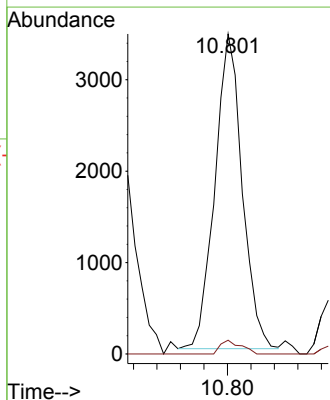
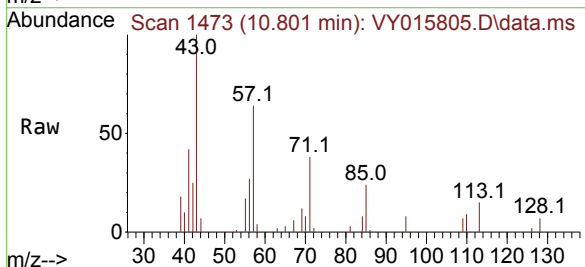


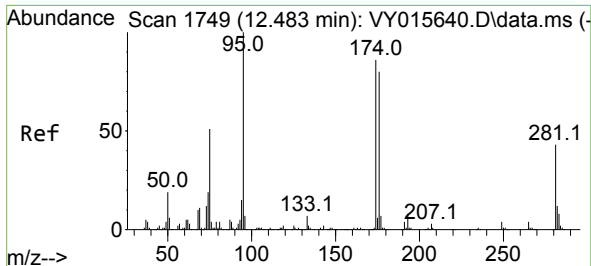
Tgt Ion: 97	Resp:	3130
Ion	Ratio	Lower Upper
97	100	
83	7.3	72.0 108.0#
85	8.4	45.4 68.0#
99	0.0	50.3 75.5#



#59
 2-Hexanone
 Concen: 3.538 ug/l
 RT: 10.801 min Scan# 1473
 Delta R.T. -0.030 min
 Lab File: VY015805.D
 Acq: 03 Oct 2023 14:57

Tgt Ion: 43	Resp:	5553
Ion	Ratio	Lower Upper
43	100	
58	3.3	25.1 75.3#

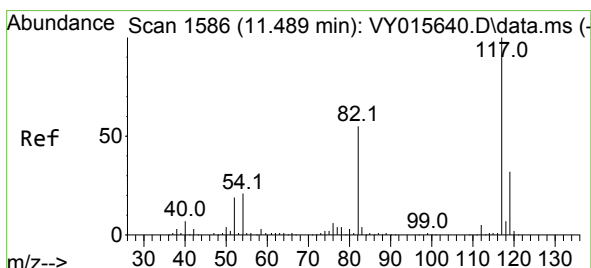
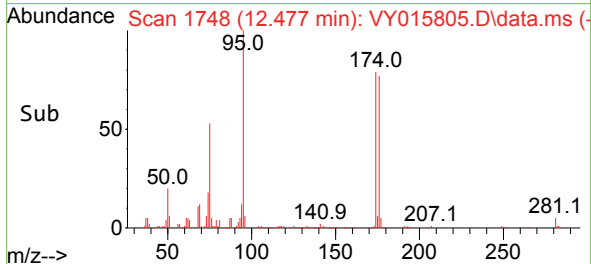
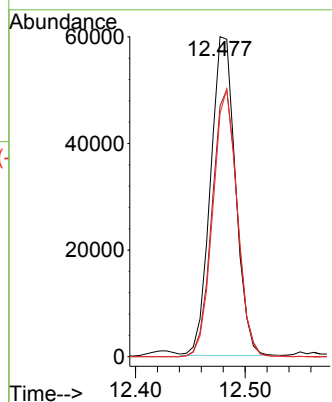
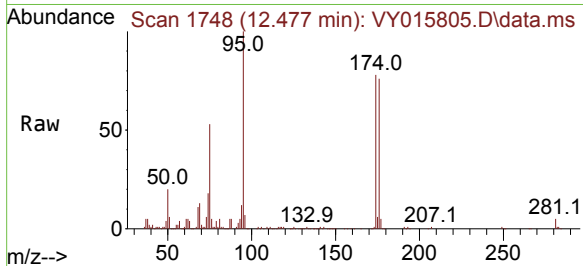




#62
4-Bromofluorobenzene
Concen: 54.307 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015805.D
Acq: 03 Oct 2023 14:57

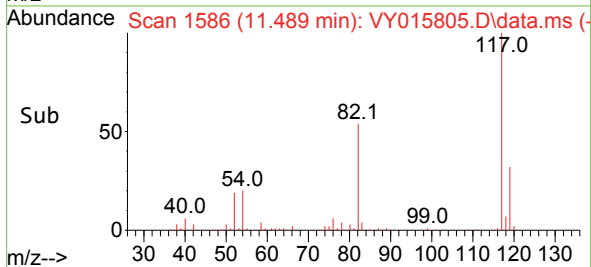
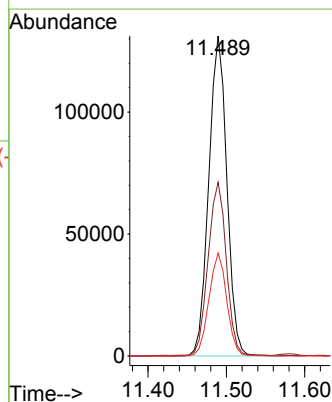
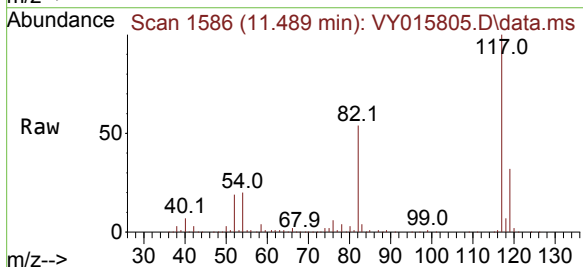
Instrument :
MSVOA_Y
ClientSampleId :

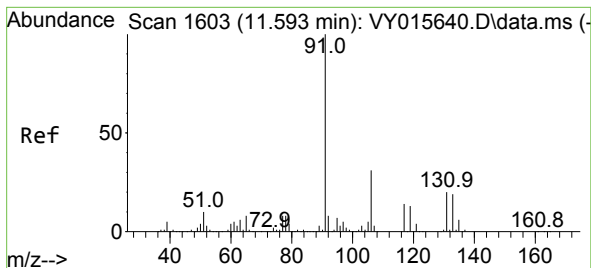
Tgt Ion: 95 Resp: 94659
Ion Ratio Lower Upper
95 100
174 84.2 0.0 178.2
176 81.9 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY015805.D
Acq: 03 Oct 2023 14:57

Tgt Ion: 117 Resp: 210155
Ion Ratio Lower Upper
117 100
82 54.1 43.4 65.0
119 32.1 26.3 39.5





#67

Ethyl Benzene

Concen: 2.521 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. 0.006 min

Lab File: VY015805.D

Acq: 03 Oct 2023 14:57

Instrument :

MSVOA_Y

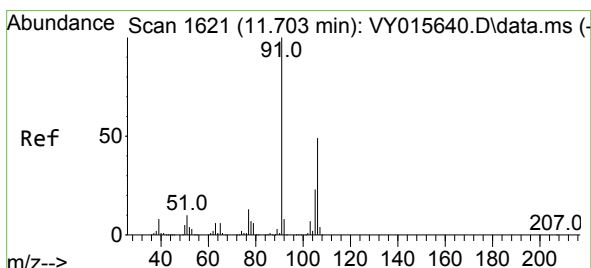
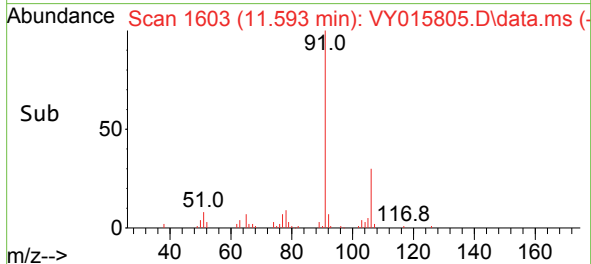
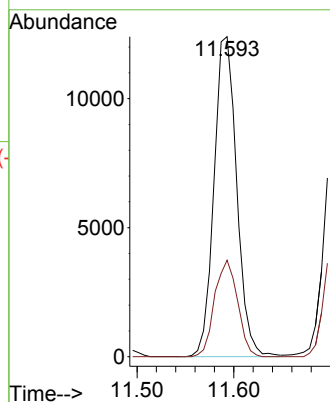
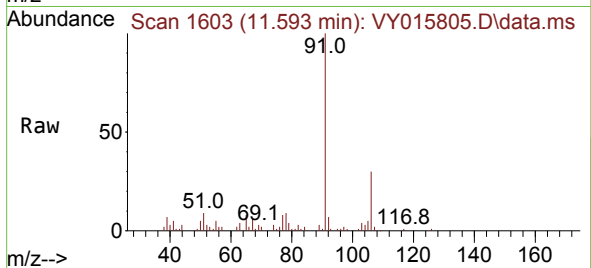
ClientSampleId :

Tgt Ion: 91 Resp: 20216

Ion Ratio Lower Upper

91 100

106 30.1 24.6 36.8



#68

m/p-Xylenes

Concen: 2.857 ug/l

RT: 11.709 min Scan# 1622

Delta R.T. 0.006 min

Lab File: VY015805.D

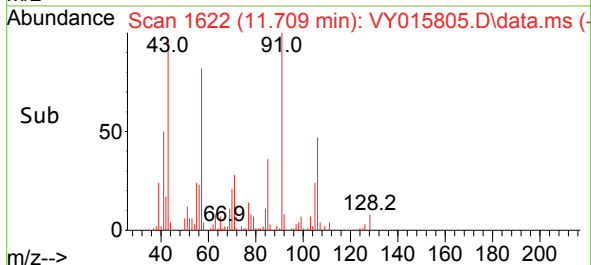
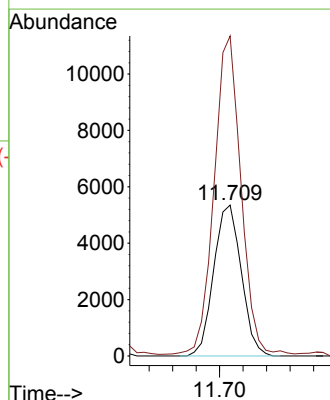
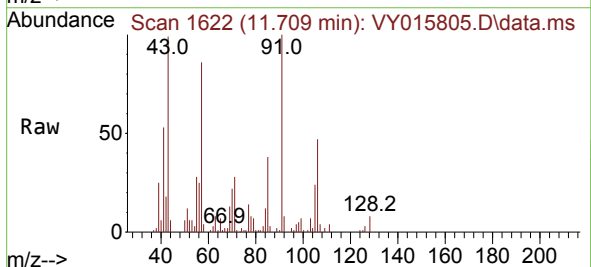
Acq: 03 Oct 2023 14:57

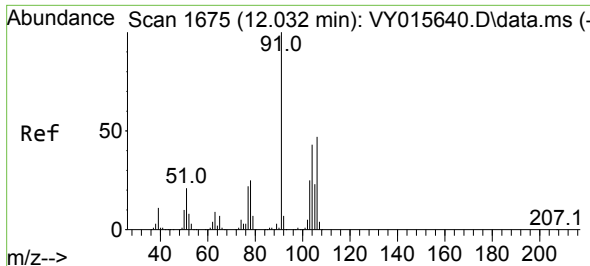
Tgt Ion: 106 Resp: 8706

Ion Ratio Lower Upper

106 100

91 205.3 166.1 249.1

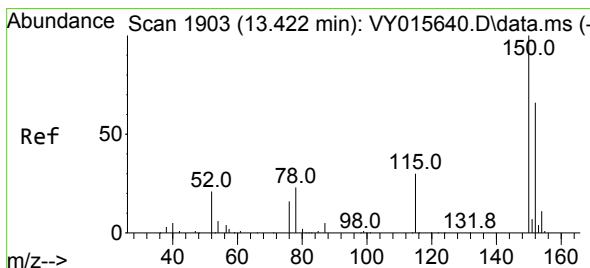
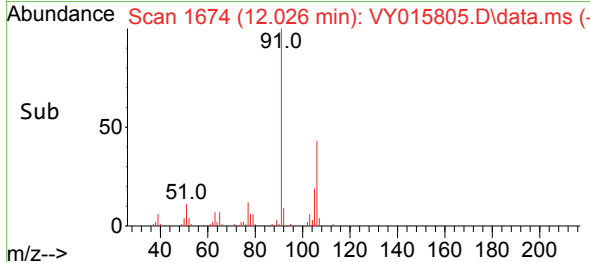
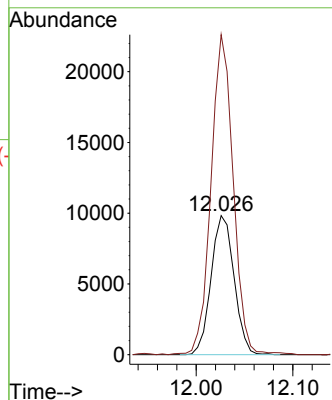
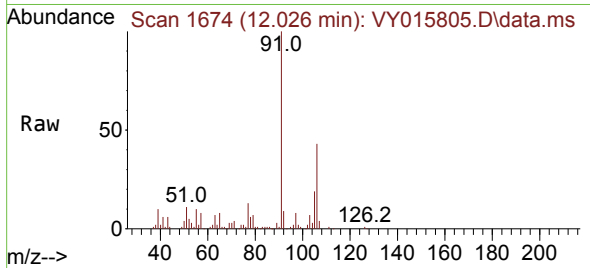




#69
o-Xylene
Concen: 5.426 ug/l
RT: 12.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY015805.D
Acq: 03 Oct 2023 14:57

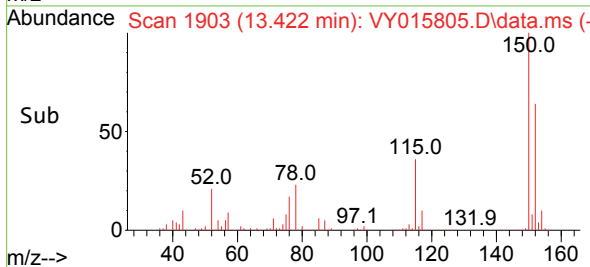
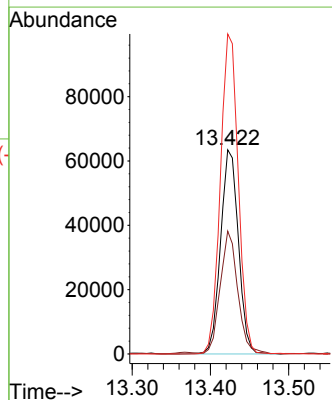
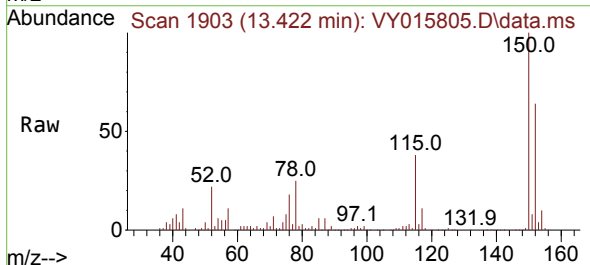
Instrument :
MSVOA_Y
ClientSampleId :

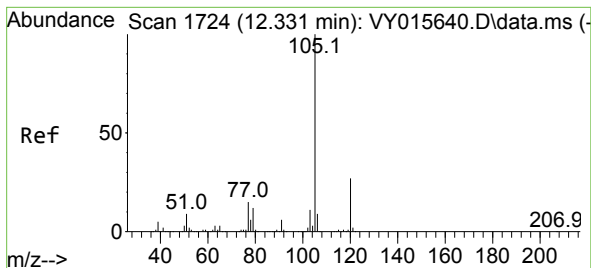
Tgt Ion:106 Resp: 16214
Ion Ratio Lower Upper
106 100
91 222.3 108.1 324.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. -0.000 min
Lab File: VY015805.D
Acq: 03 Oct 2023 14:57

Tgt Ion:152 Resp: 100641
Ion Ratio Lower Upper
152 100
115 59.3 28.8 86.5
150 156.8 0.0 348.8





#73

Isopropylbenzene

Concen: 1.484 ug/l

RT: 12.331 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY015805.D

Acq: 03 Oct 2023 14:57

Instrument :

MSVOA_Y

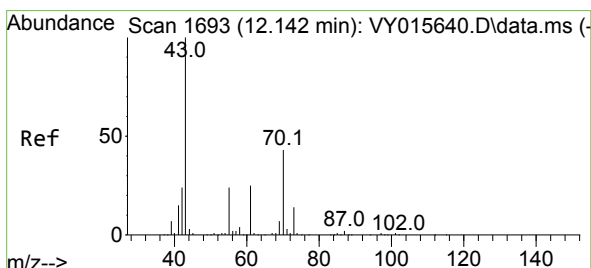
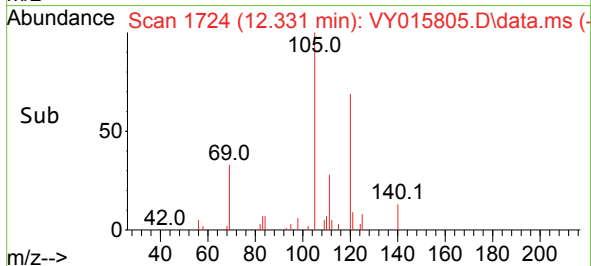
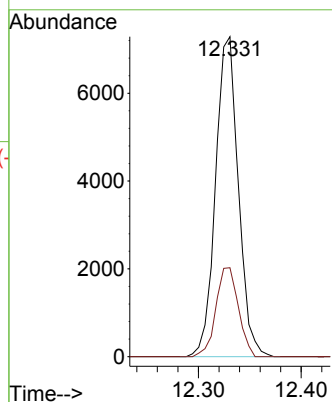
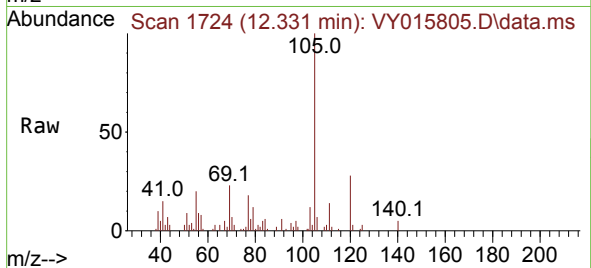
ClientSampleId :

Tgt Ion:105 Resp: 11204

Ion Ratio Lower Upper

105 100

120 27.4 13.3 39.9



#74

N-ethyl acetate

Concen: 2.639 ug/l

RT: 12.123 min Scan# 1690

Delta R.T. -0.019 min

Lab File: VY015805.D

Acq: 03 Oct 2023 14:57

Tgt Ion: 43 Resp: 7488

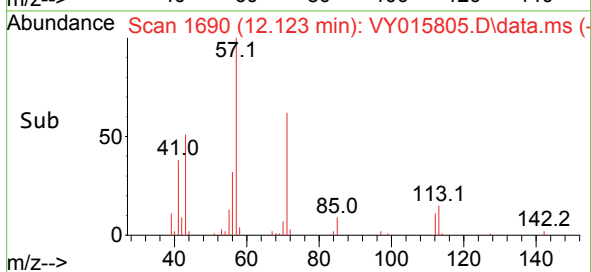
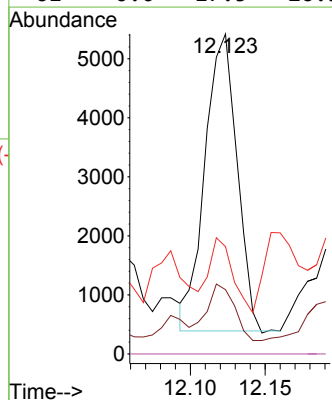
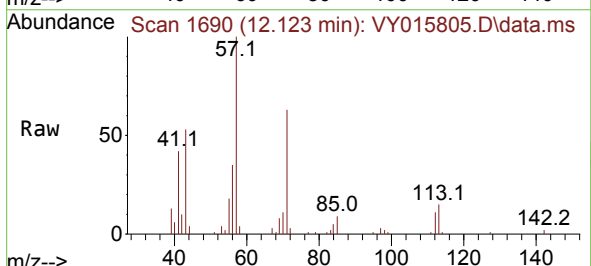
Ion Ratio Lower Upper

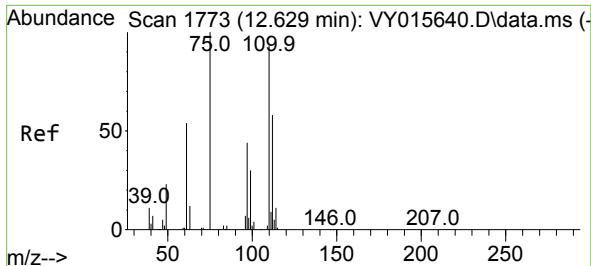
43 100

70 16.4 29.7 44.5#

55 18.4 18.3 27.5

61 0.0 17.5 26.3#

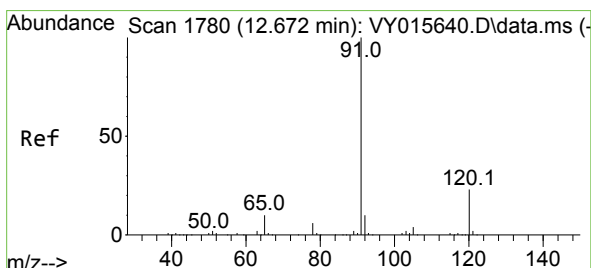
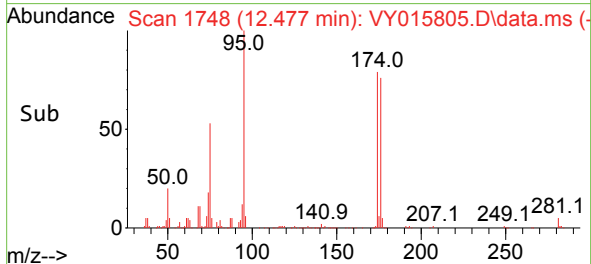
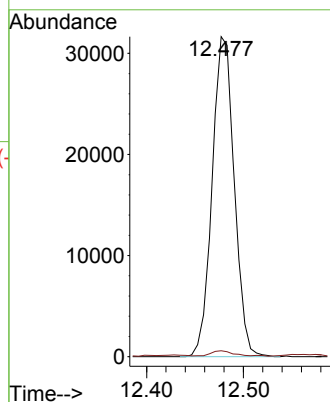
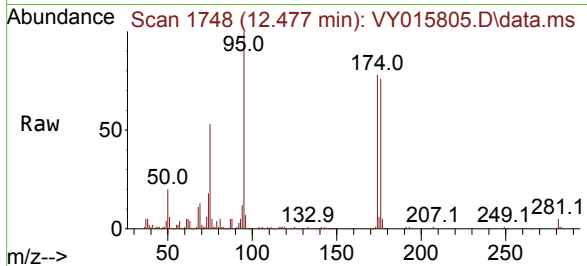




#76
1,2,3-Trichloropropane
Concen: 31.327 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.152 min
Lab File: VY015805.D
Acq: 03 Oct 2023 14:57

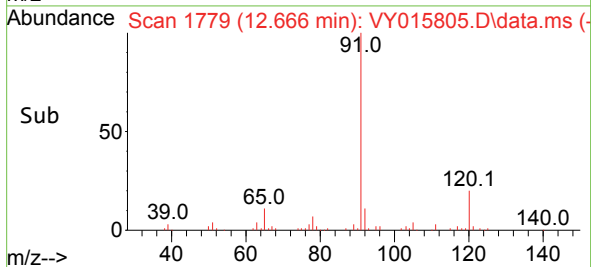
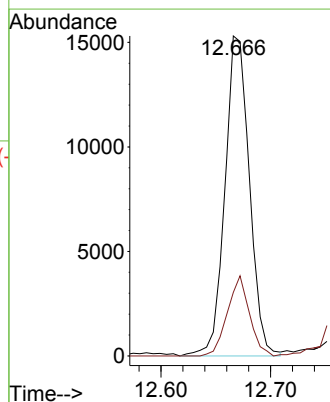
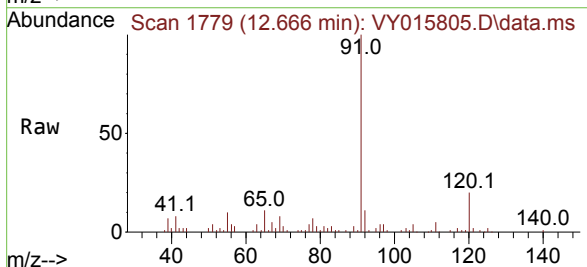
Instrument :
MSVOA_Y
ClientSampleId :

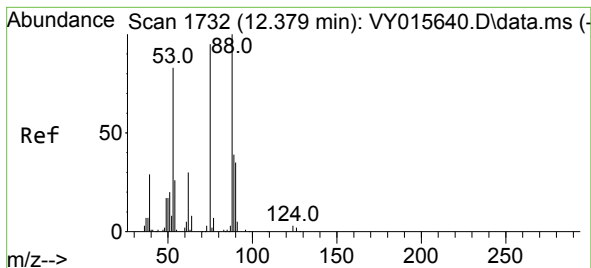
Tgt Ion: 75 Resp: 50298
Ion Ratio Lower Upper
75 100
77 1.7 0.0 0.0#



#78
n-propylbenzene
Concen: 2.590 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY015805.D
Acq: 03 Oct 2023 14:57

Tgt Ion: 91 Resp: 23754
Ion Ratio Lower Upper
91 100
120 22.6 11.5 34.4

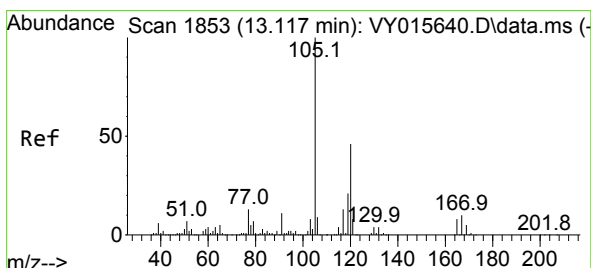
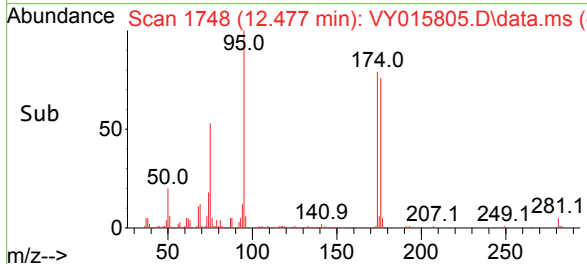
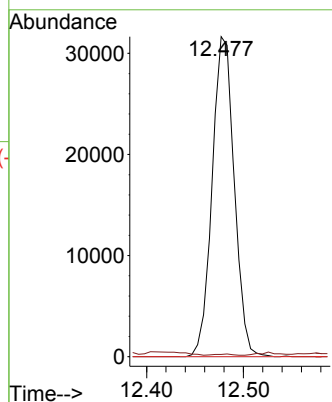
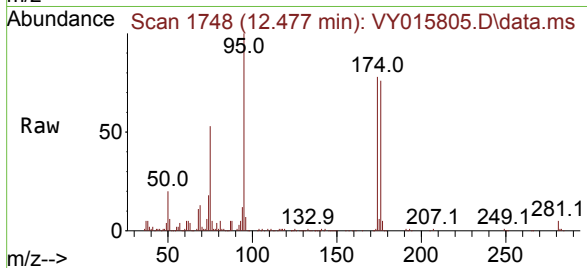




#81
trans-1,4-Dichloro-2-butene
Concen: 70.546 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.097 min
Lab File: VY015805.D
Acq: 03 Oct 2023 14:57

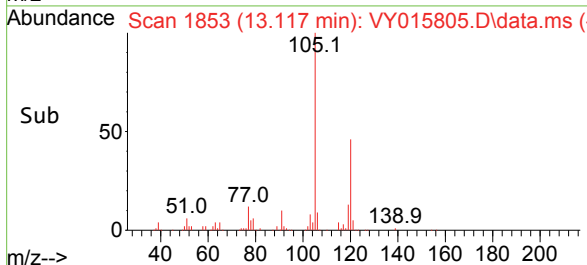
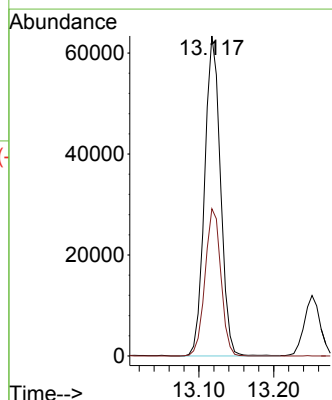
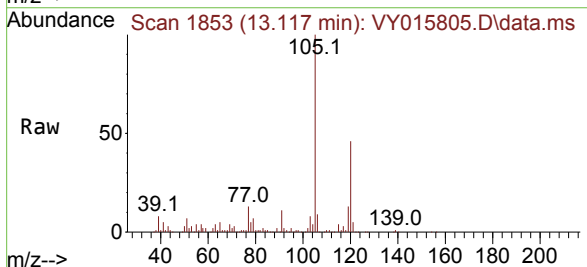
Instrument :
MSVOA_Y
ClientSampleId :

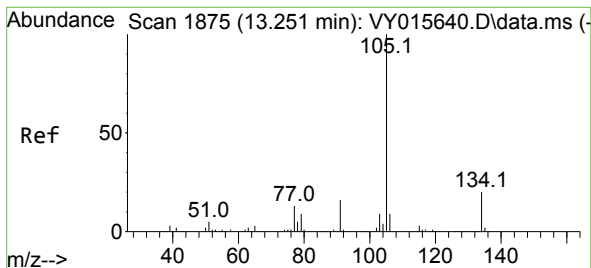
Tgt Ion: 75 Resp: 50298
Ion Ratio Lower Upper
75 100
53 0.3 77.8 116.8#
89 0.0 37.4 56.0#



#84
1,2,4-Trimethylbenzene
Concen: 14.766 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY015805.D
Acq: 03 Oct 2023 14:57

Tgt Ion: 105 Resp: 93382
Ion Ratio Lower Upper
105 100
120 45.8 22.2 66.6





#85

sec-Butylbenzene

Concen: 2.106 ug/l

RT: 13.251 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VY015805.D

Acq: 03 Oct 2023 14:57

Instrument :

MSVOA_Y

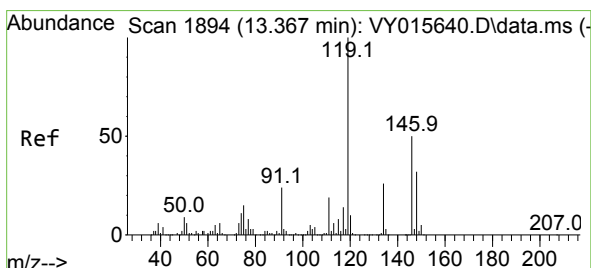
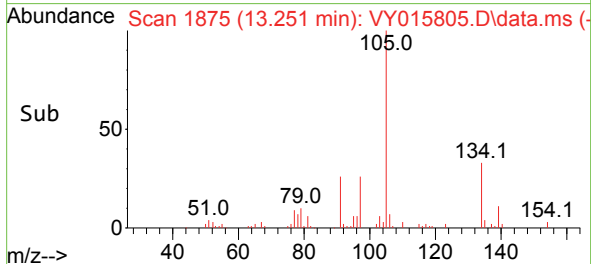
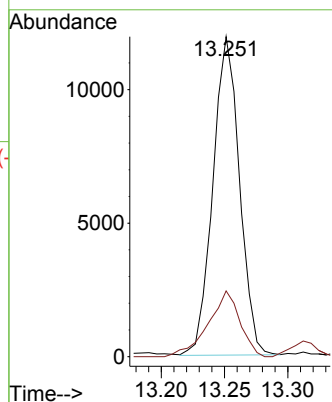
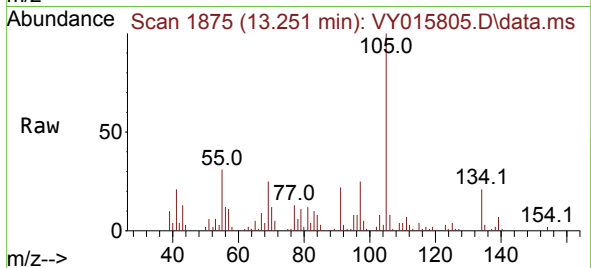
ClientSampleId :

Tgt Ion:105 Resp: 17448

Ion Ratio Lower Upper

105 100

134 24.5 10.2 30.6



#86

p-Isopropyltoluene

Concen: 1.354 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. 0.000 min

Lab File: VY015805.D

Acq: 03 Oct 2023 14:57

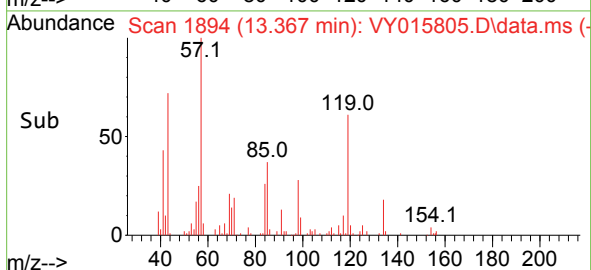
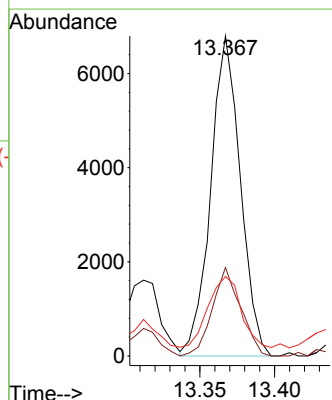
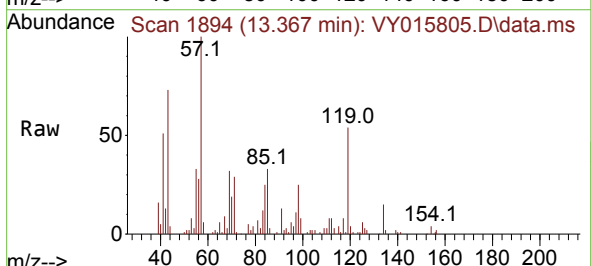
Tgt Ion:119 Resp: 9370

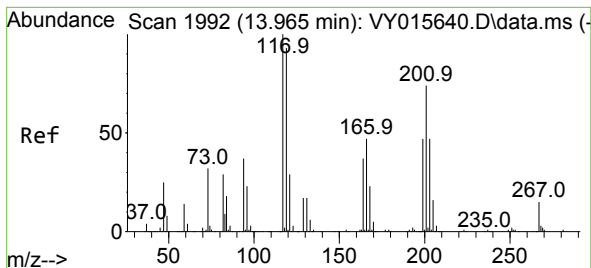
Ion Ratio Lower Upper

119 100

134 26.4 13.3 39.8

91 24.2 12.4 37.4





#90

Hexachloroethane

Concen: 2.875 ug/l

RT: 13.971 min Scan# 1993

Delta R.T. 0.012 min

Lab File: VY015805.D

Acq: 03 Oct 2023 14:57

Instrument :

MSVOA_Y

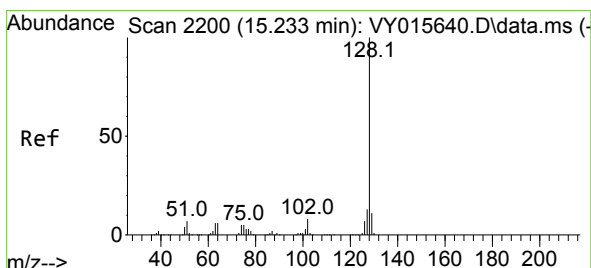
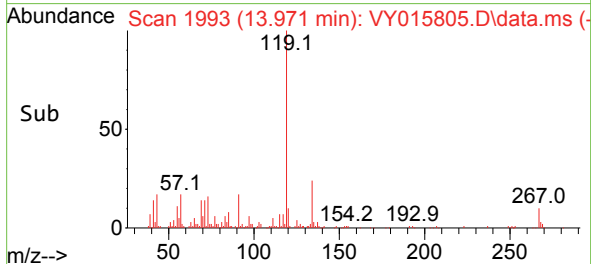
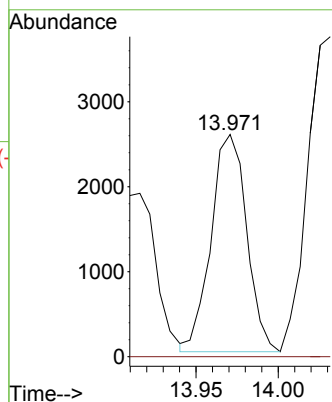
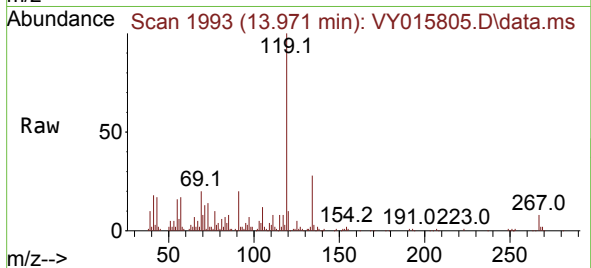
ClientSampleId :

Tgt Ion:117 Resp: 3840

Ion Ratio Lower Upper

117 100

201 0.0 41.6 124.8#



#95

Naphthalene

Concen: 10.673 ug/l

RT: 15.233 min Scan# 2200

Delta R.T. -0.000 min

Lab File: VY015805.D

Acq: 03 Oct 2023 14:57

Tgt Ion:128 Resp: 59462

Ion Ratio Lower Upper

128 100

127 15.3 10.8 16.2

129 12.8 8.6 13.0

