

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100623\
 Data File : VY015867.D
 Acq On : 06 Oct 2023 17:10
 Operator : SY/MD
 Sample : 04767-06
 Misc : 6.80g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 07 07:29:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100523S.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 06 05:54:04 2023
 Response via : Initial Calibration

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

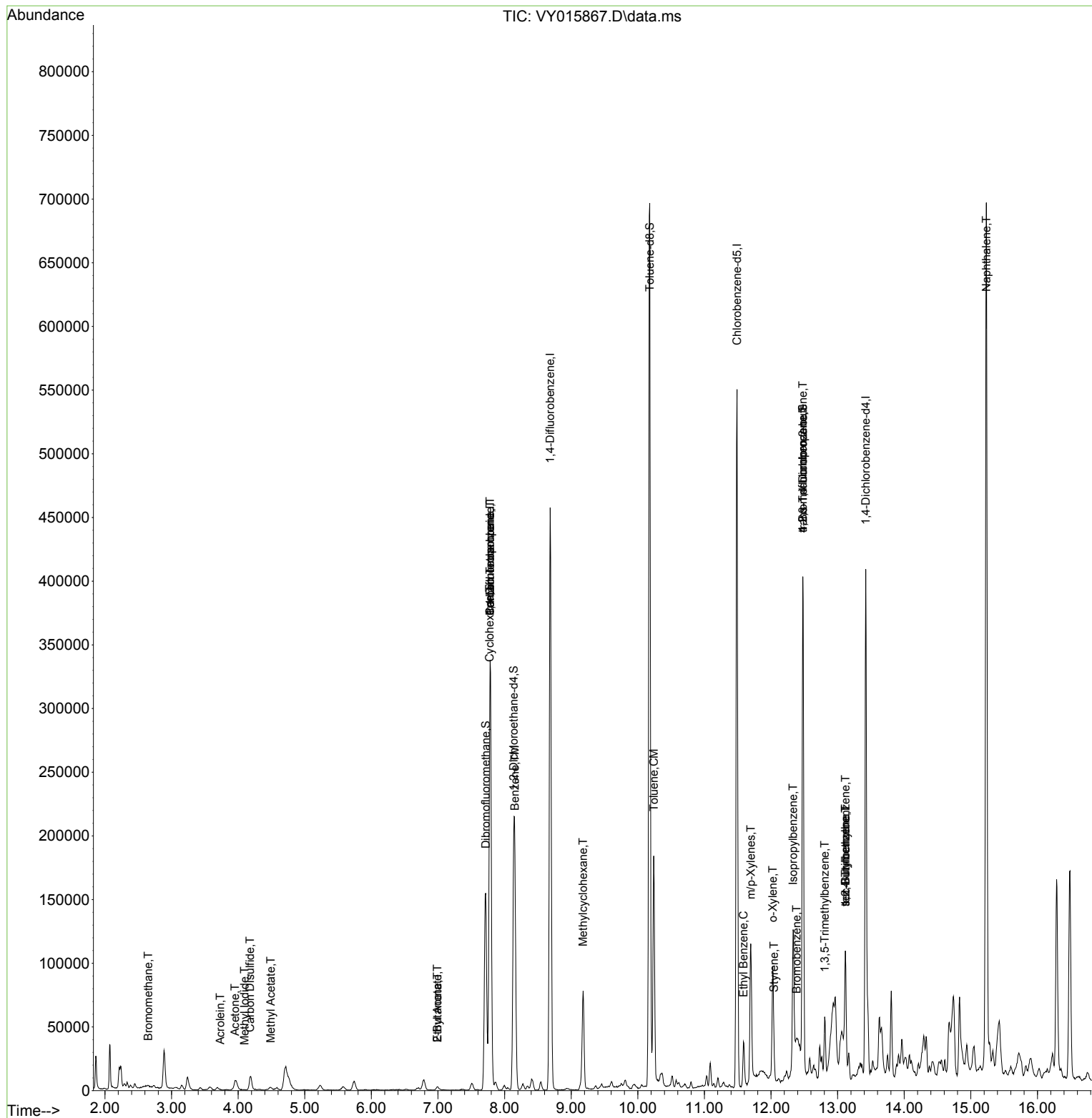
Internal Standards						
1) Pentafluorobenzene	7.783	168	250841	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	400510	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	300684	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	100406	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	119680	48.495	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	97.000%
35) Dibromofluoromethane	7.716	113	114160	50.006	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.020%
50) Toluene-d8	10.179	98	454796	61.359	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	122.720%
62) 4-Bromofluorobenzene	12.477	95	115782	38.216	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	76.440%
Target Compounds						
					Qvalue	
5) Bromomethane	2.650	94	315	1.104	ug/l #	69
10) Methyl Iodide	4.094	142	358	3.281	ug/l #	68
11) Tert butyl alcohol	4.978	59	531	Below Cal	#	89
13) Acrolein	3.729	56	338	1.775	ug/l #	14
16) Acetone	3.954	43	15035	11.759	ug/l	96
17) Carbon Disulfide	4.180	76	22929	11.503	ug/l	99
18) Methyl Acetate	4.491	43	4216	1.013	ug/l #	54
20) Methylene Chloride	4.716	84	12847	Below Cal		91
25) 2-Butanone	6.990	43	4169	2.370	ug/l	95
31) Cyclohexane	7.777	56	17629	6.337	ug/l #	61
36) 1,1-Dichloropropene	7.783	75	19138	7.027	ug/l #	50
37) Ethyl Acetate	6.990	43	4169	1.368	ug/l #	71
38) Carbon Tetrachloride	7.783	117	25520	7.969	ug/l #	16
39) Methylcyclohexane	9.179	83	32767	11.249	ug/l	98
40) Benzene	8.155	78	112640	13.180	ug/l	98
52) Toluene	10.240	92	74857	13.387	ug/l	92
67) Ethyl Benzene	11.587	91	24479	2.572	ug/l	97
68) m/p-Xylenes	11.697	106	33427	9.239	ug/l	94
69) o-Xylene	12.026	106	22098	6.141	ug/l	96
70) Styrene	12.044	104	9884	1.573	ug/l #	73
73) Isopropylbenzene	12.331	105	8142	1.252	ug/l	88
76) 1,2,3-Trichloropropane	12.477	75	60902	40.974	ug/l #	100
77) Bromobenzene	12.386	156	57994	36.043	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.806	105	19924	3.676	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.477	75	60902	94.850	ug/l #	11
83) tert-Butylbenzene	13.117	119	5591	1.128	ug/l #	63
84) 1,2,4-Trimethylbenzene	13.117	105	44180	8.113	ug/l	99
85) sec-Butylbenzene	13.117	105	44180	6.078	ug/l #	56
95) Naphthalene	15.233	128	558093	105.987	ug/l	99

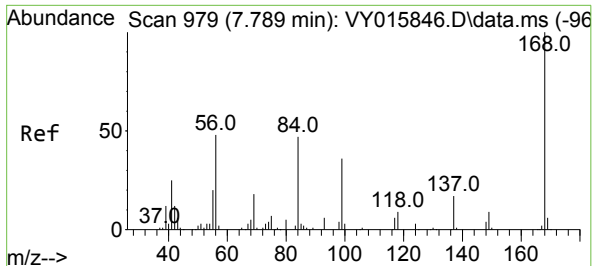
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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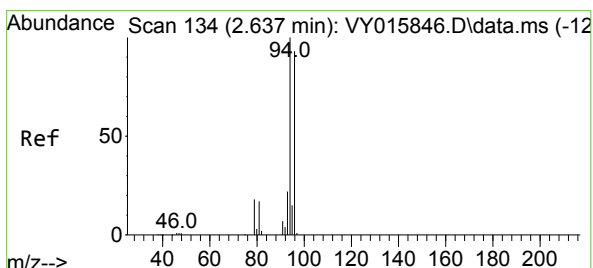
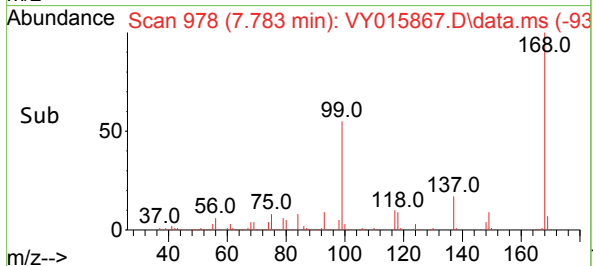
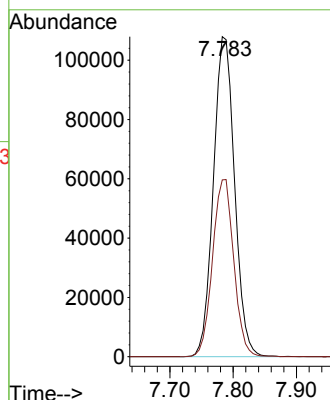
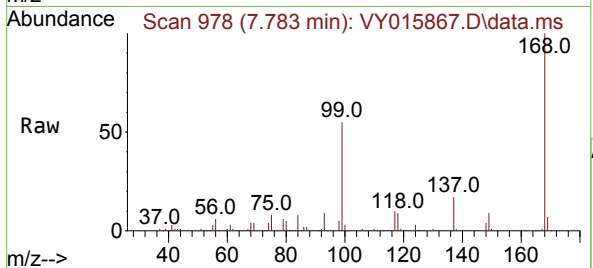




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY015867.D
Acq: 06 Oct 2023 17:10

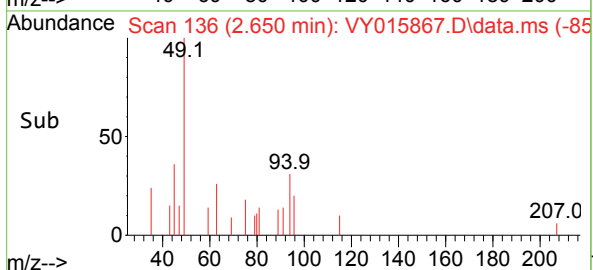
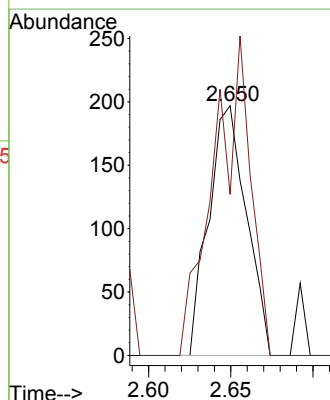
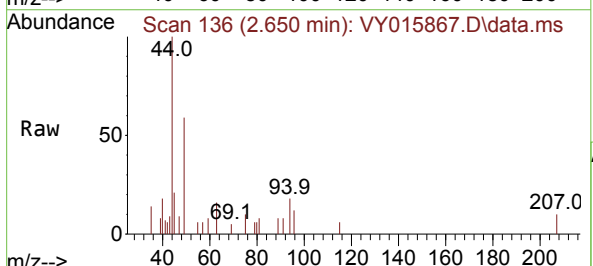
Instrument :
MSVOA_Y
ClientSampleId :

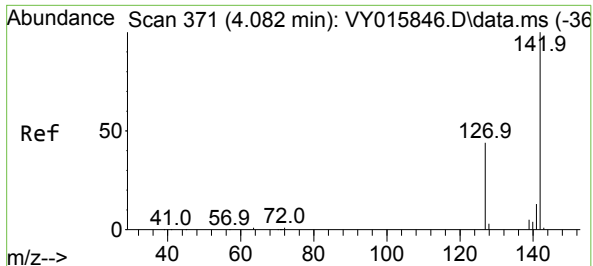
Tgt Ion:168 Resp: 250841
Ion Ratio Lower Upper
168 100
99 55.3 43.4 65.0



#5
Bromomethane
Concen: 1.104 ug/l
RT: 2.650 min Scan# 136
Delta R.T. 0.013 min
Lab File: VY015867.D
Acq: 06 Oct 2023 17:10

Tgt Ion: 94 Resp: 315
Ion Ratio Lower Upper
94 100
96 64.5 75.8 113.6#

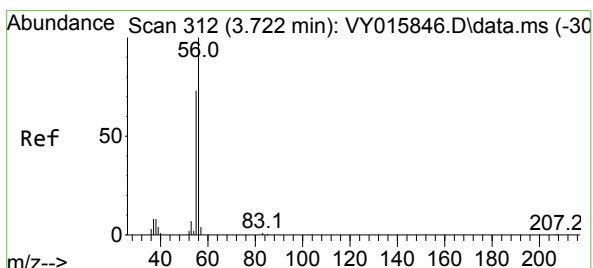
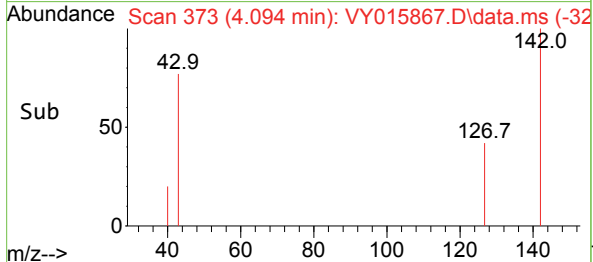
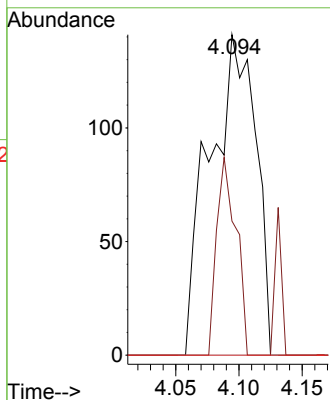
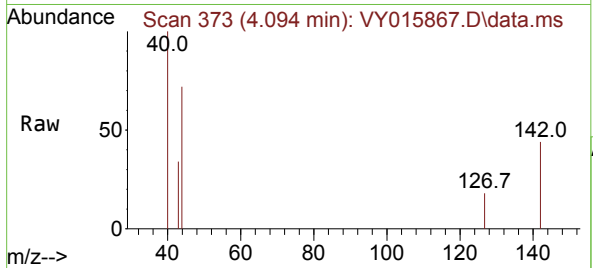




#10
Methyl Iodide
Concen: 3.281 ug/l
RT: 4.094 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY015867.D
Acq: 06 Oct 2023 17:10

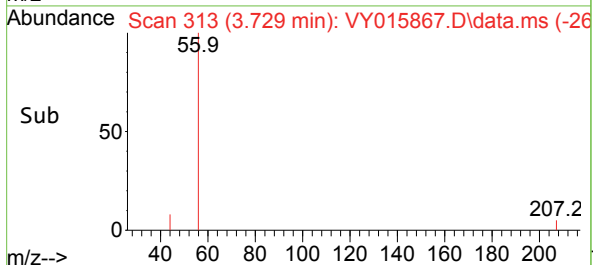
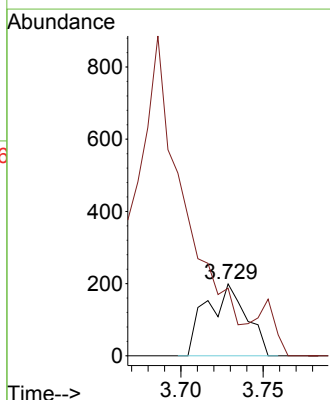
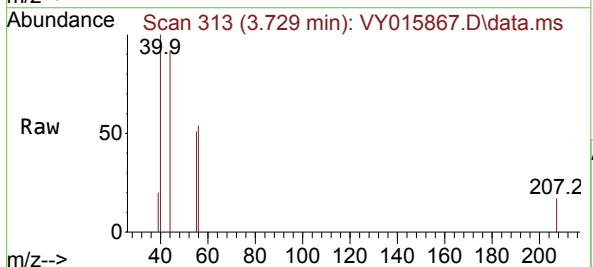
Instrument :
MSVOA_Y
ClientSampleId :

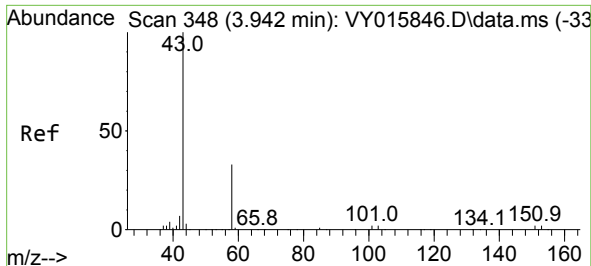
Tgt Ion:142 Resp: 358
Ion Ratio Lower Upper
142 100
127 26.0 37.6 56.4#
141 0.0 11.8 17.8#



#13
Acrolein
Concen: 1.775 ug/l
RT: 3.729 min Scan# 313
Delta R.T. 0.006 min
Lab File: VY015867.D
Acq: 06 Oct 2023 17:10

Tgt Ion: 56 Resp: 338
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#

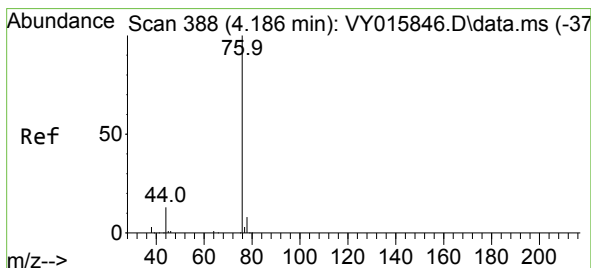
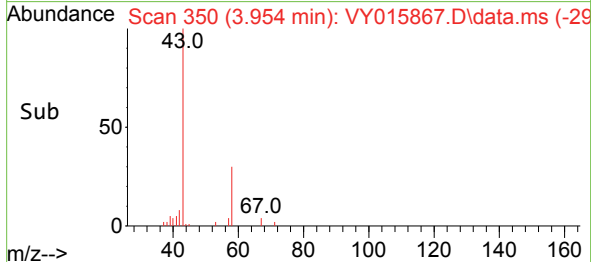
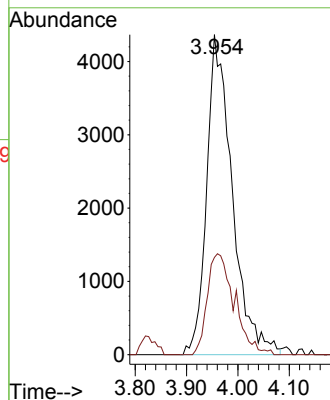
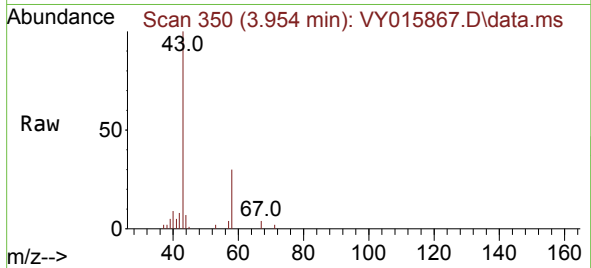




#16
Acetone
Concen: 11.759 ug/l
RT: 3.954 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY015867.D
Acq: 06 Oct 2023 17:10

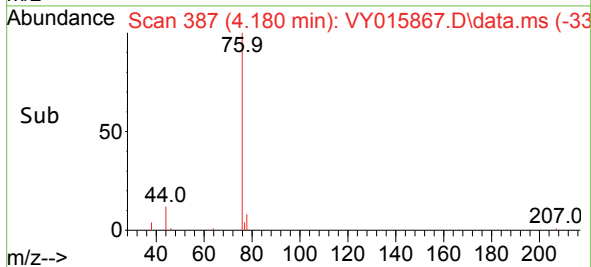
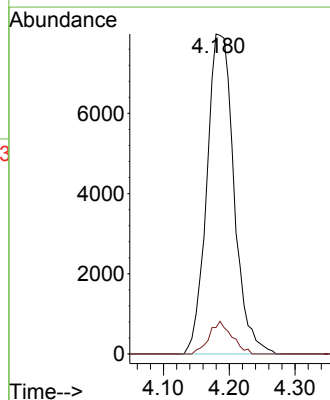
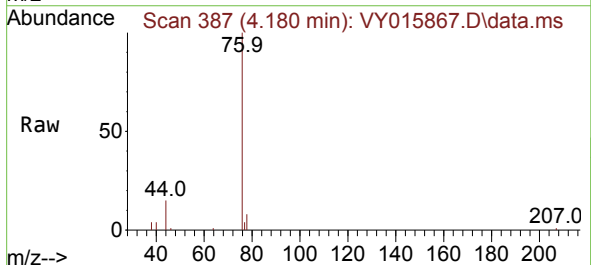
Instrument :
MSVOA_Y
ClientSampleId :

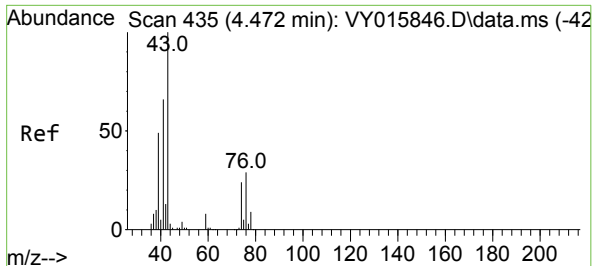
Tgt Ion: 43 Resp: 15035
Ion Ratio Lower Upper
43 100
58 30.4 22.7 34.1



#17
Carbon Disulfide
Concen: 11.503 ug/l
RT: 4.180 min Scan# 387
Delta R.T. -0.006 min
Lab File: VY015867.D
Acq: 06 Oct 2023 17:10

Tgt Ion: 76 Resp: 22929
Ion Ratio Lower Upper
76 100
78 8.2 7.0 10.4





#18

Methyl Acetate

Concen: 1.013 ug/l

RT: 4.491 min Scan# 41

Delta R.T. 0.018 min

Lab File: VY015867.D

Acq: 06 Oct 2023 17:10

Instrument :

MSVOA_Y

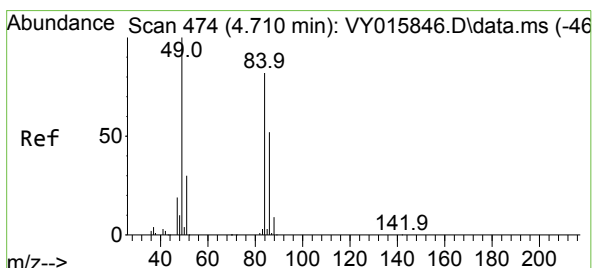
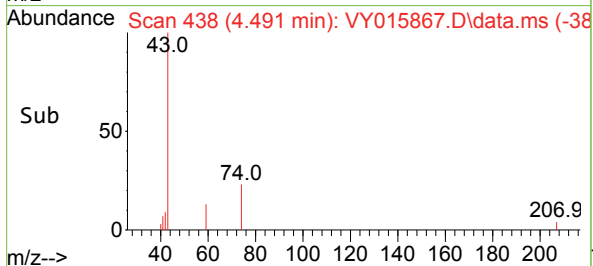
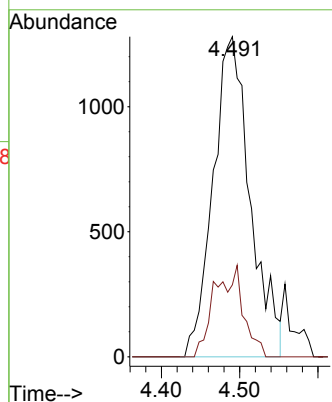
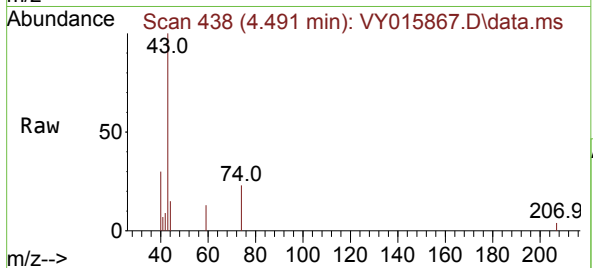
ClientSampleId :

Tgt Ion: 43 Resp: 4216

Ion Ratio Lower Upper

43 100

74 0.0 17.4 26.0#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.716 min Scan# 475

Delta R.T. 0.006 min

Lab File: VY015867.D

Acq: 06 Oct 2023 17:10

Tgt Ion: 84 Resp: 12847

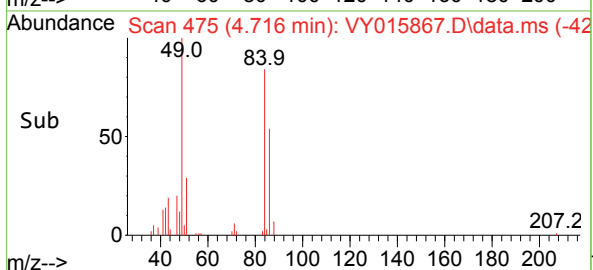
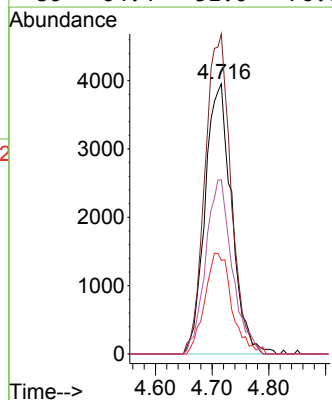
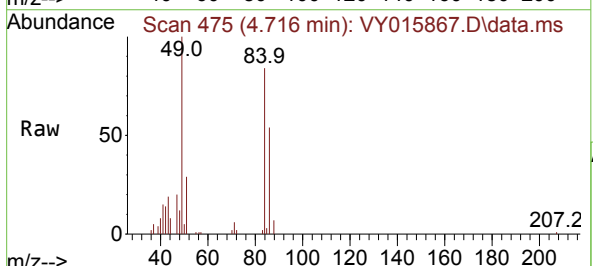
Ion Ratio Lower Upper

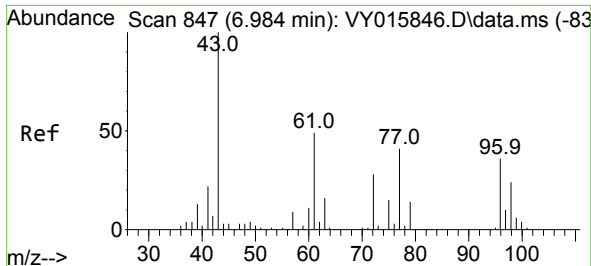
84 100

49 118.5 106.9 160.3

51 34.6 33.2 49.8

86 64.4 51.0 76.6





#25

2-Butanone

Concen: 2.370 ug/l

RT: 6.990 min Scan# 847

Delta R.T. 0.006 min

Lab File: VY015867.D

Acq: 06 Oct 2023 17:10

Instrument :

MSVOA_Y

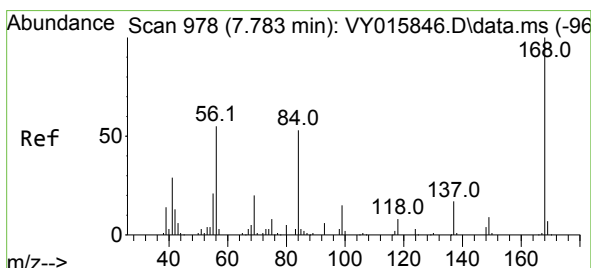
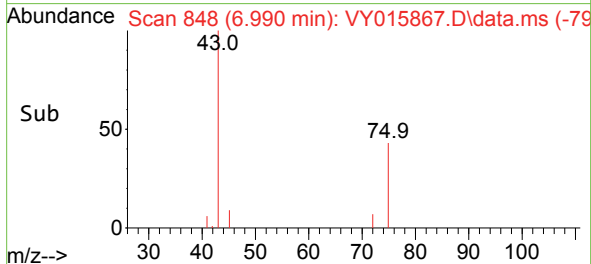
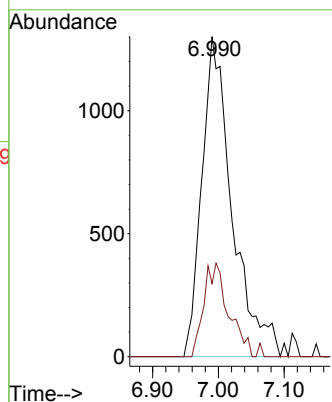
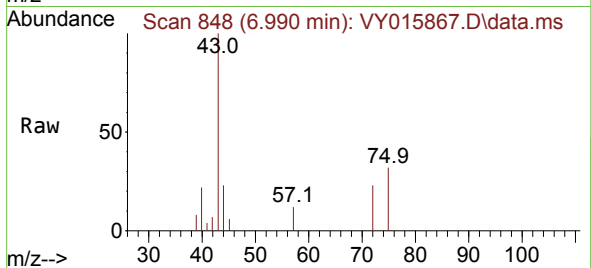
ClientSampleId :

Tgt Ion: 43 Resp: 4169

Ion Ratio Lower Upper

43 100

72 22.8 20.5 30.7



#31

Cyclohexane

Concen: 6.337 ug/l

RT: 7.777 min Scan# 977

Delta R.T. -0.006 min

Lab File: VY015867.D

Acq: 06 Oct 2023 17:10

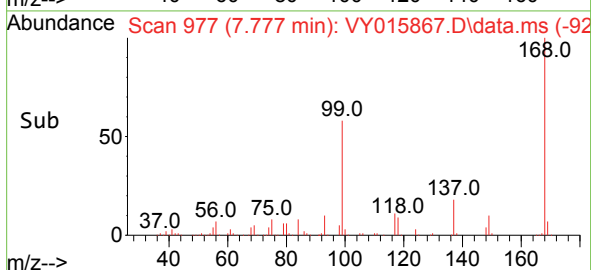
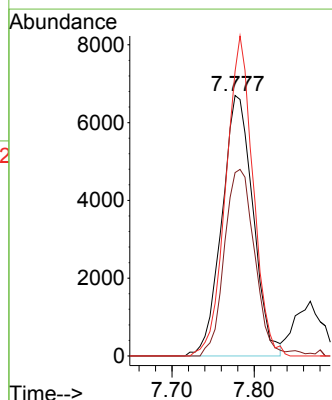
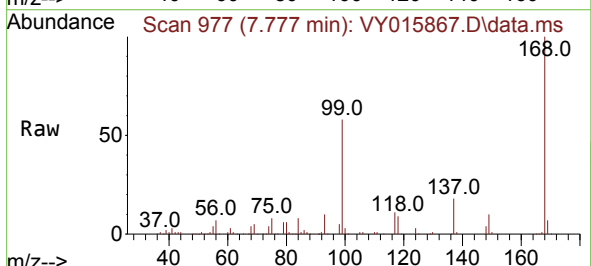
Tgt Ion: 56 Resp: 17629

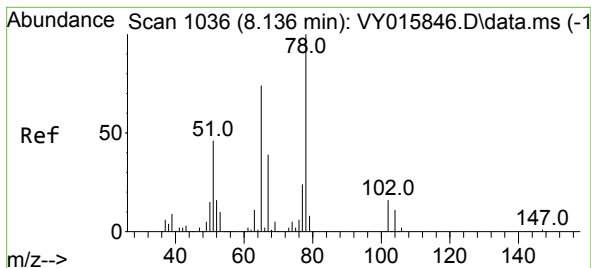
Ion Ratio Lower Upper

56 100

69 70.4 27.8 41.6#

84 109.2 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 48.495 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY015867.D

Acq: 06 Oct 2023 17:10

Instrument :

MSVOA_Y

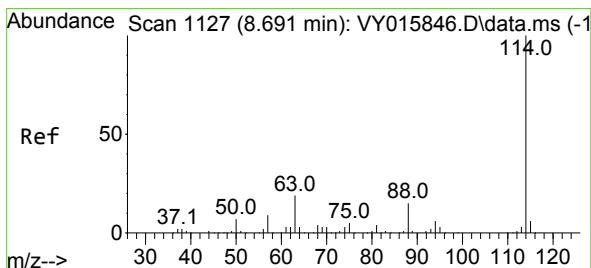
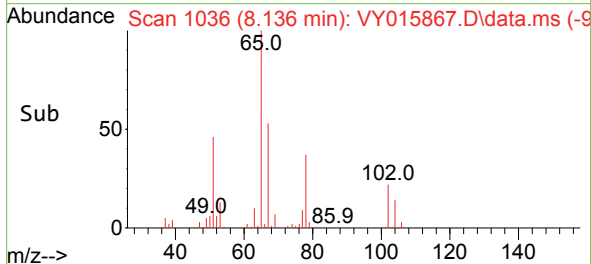
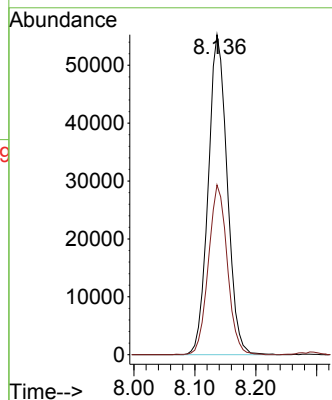
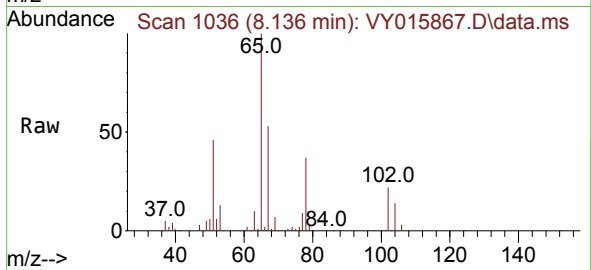
ClientSampleId :

Tgt Ion: 65 Resp: 119680

Ion Ratio Lower Upper

65 100

67 52.7 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY015867.D

Acq: 06 Oct 2023 17:10

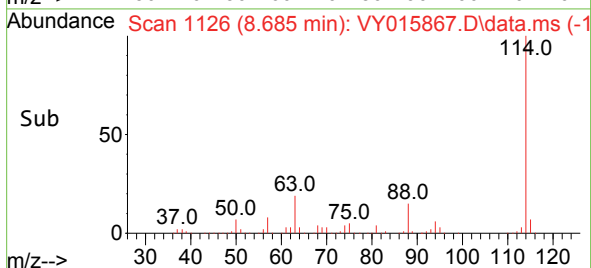
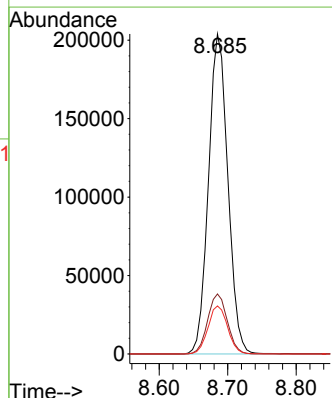
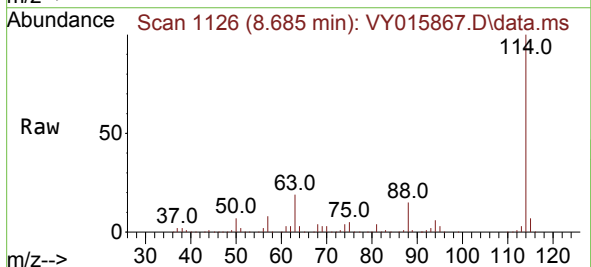
Tgt Ion: 114 Resp: 400510

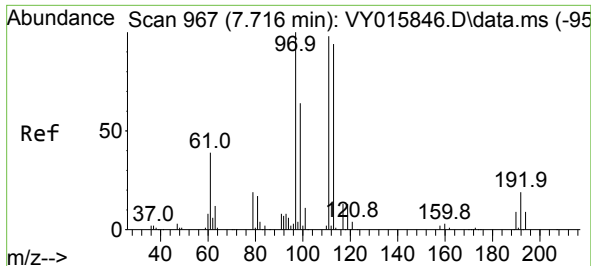
Ion Ratio Lower Upper

114 100

63 18.8 0.0 42.4

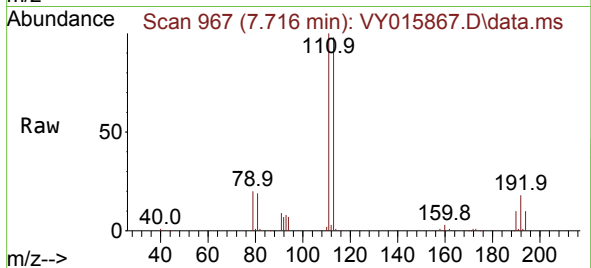
88 15.0 0.0 30.6



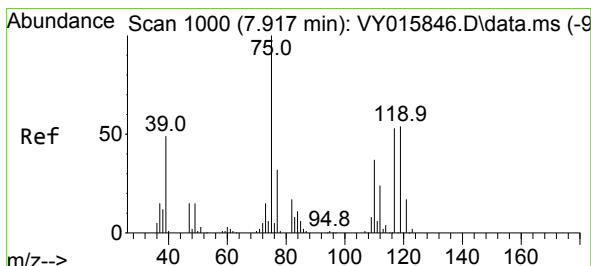
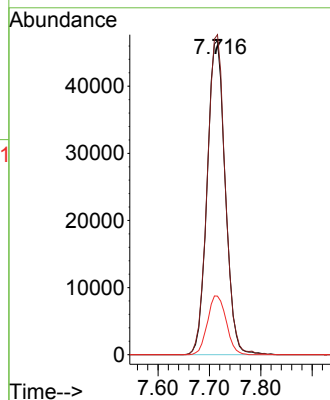
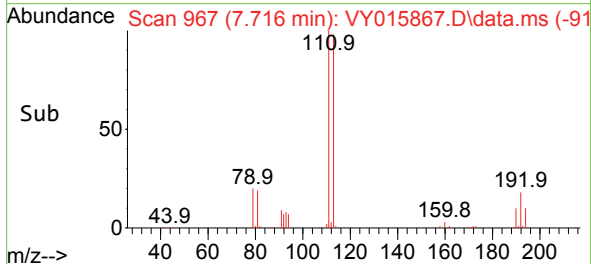


#35
Dibromofluoromethane
Concen: 50.006 ug/l
RT: 7.716 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY015867.D
Acq: 06 Oct 2023 17:10

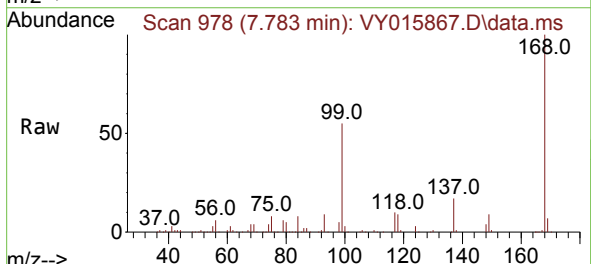
Instrument :
MSVOA_Y
ClientSampleId :



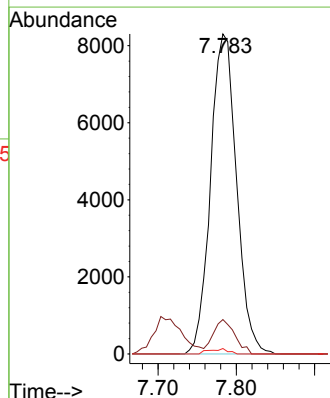
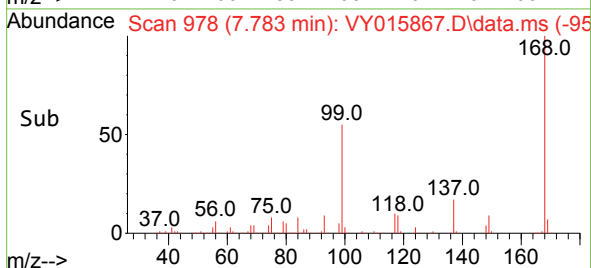
Tgt Ion:113 Resp: 114160
Ion Ratio Lower Upper
113 100
111 101.5 81.3 121.9
192 19.4 16.9 25.3

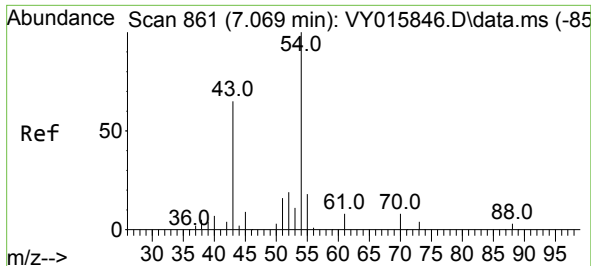


#36
1,1-Dichloropropene
Concen: 7.027 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.134 min
Lab File: VY015867.D
Acq: 06 Oct 2023 17:10



Tgt Ion: 75 Resp: 19138
Ion Ratio Lower Upper
75 100
110 8.8 17.8 53.5#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 1.368 ug/l

RT: 6.990 min Scan# 84

Delta R.T. -0.079 min

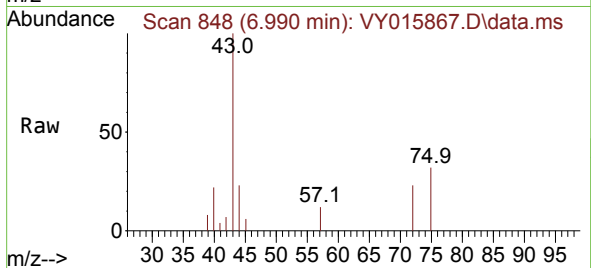
Lab File: VY015867.D

Acq: 06 Oct 2023 17:10

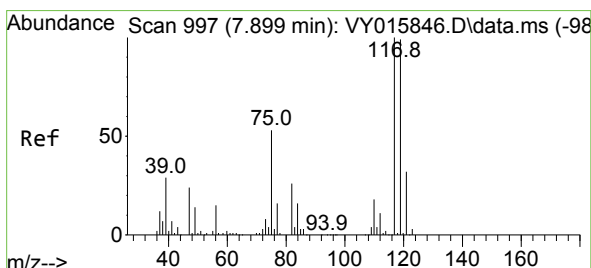
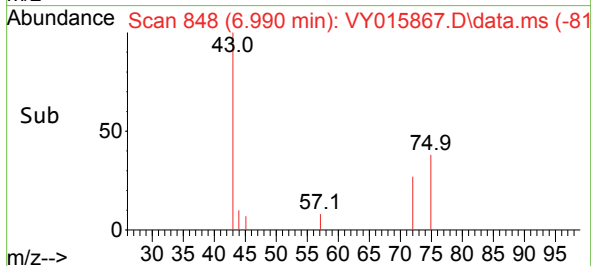
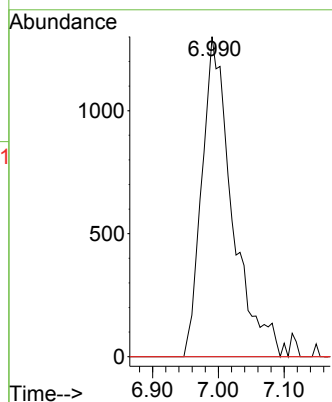
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	43	Resp:	4169
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.1	15.1#
70	0.0	7.1	10.7#



#38

Carbon Tetrachloride

Concen: 7.969 ug/l

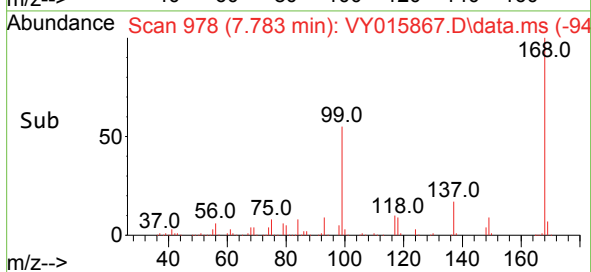
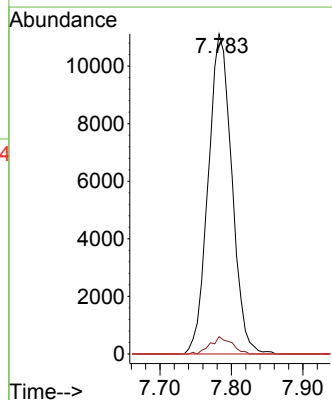
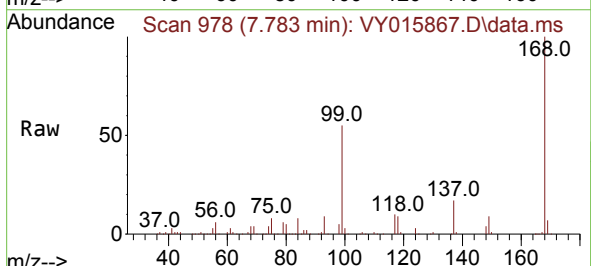
RT: 7.783 min Scan# 978

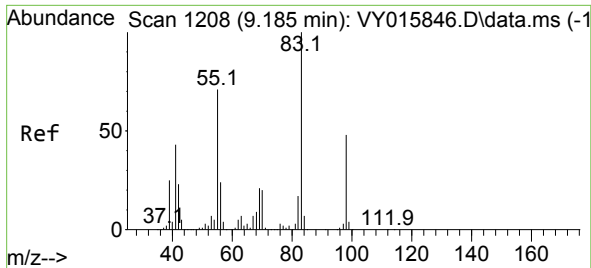
Delta R.T. -0.116 min

Lab File: VY015867.D

Acq: 06 Oct 2023 17:10

Tgt Ion:	117	Resp:	25520
Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.4	114.6#
121	0.0	25.8	38.6#

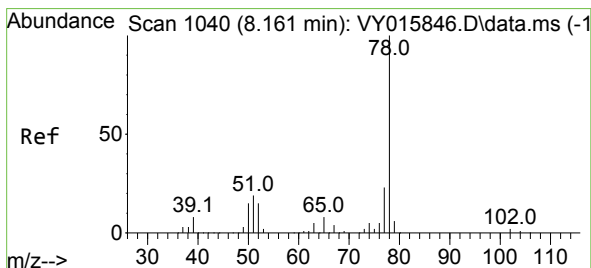
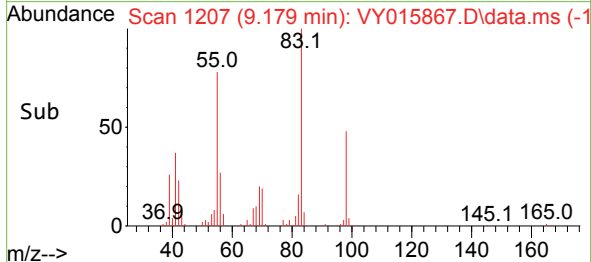
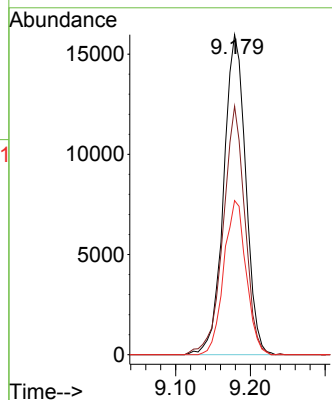
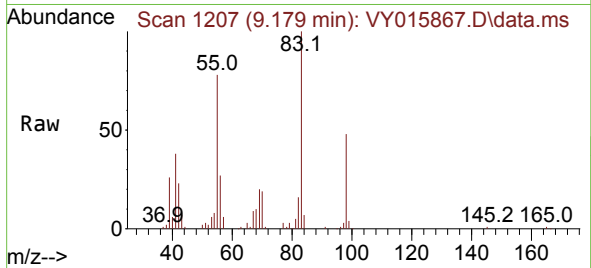




#39
Methylcyclohexane
Concen: 11.249 ug/l
RT: 9.179 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY015867.D
Acq: 06 Oct 2023 17:10

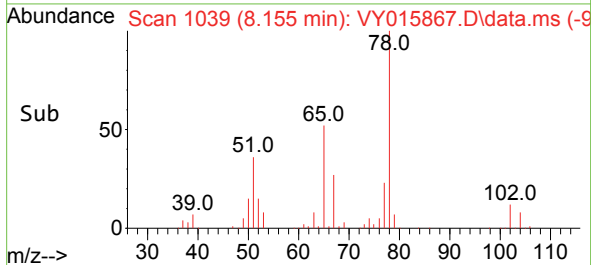
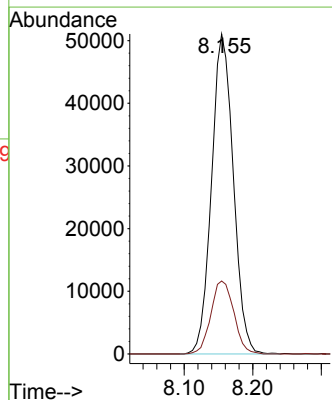
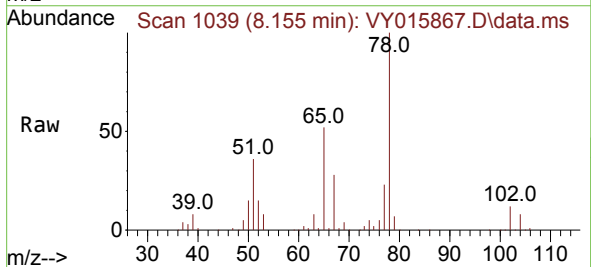
Instrument :
MSVOA_Y
ClientSampleId :

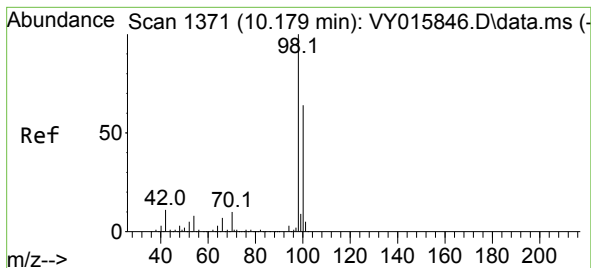
Tgt Ion: 83 Resp: 32767
Ion Ratio Lower Upper
83 100
55 77.6 63.0 94.4
98 48.2 37.4 56.2



#40
Benzene
Concen: 13.180 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VY015867.D
Acq: 06 Oct 2023 17:10

Tgt Ion: 78 Resp: 112640
Ion Ratio Lower Upper
78 100
77 22.8 19.0 28.6

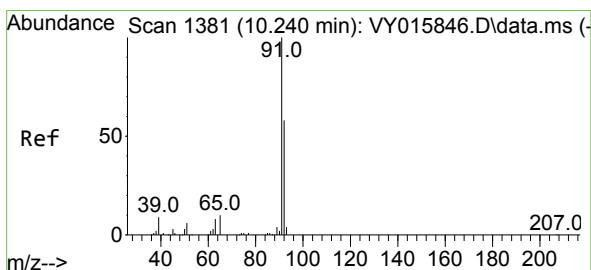
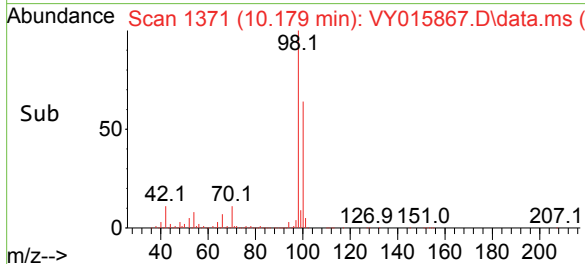
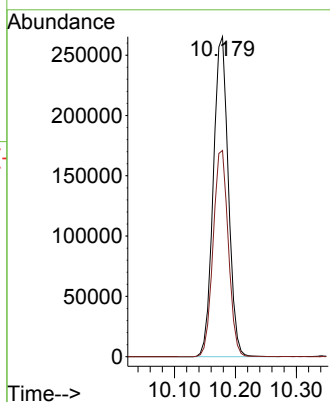
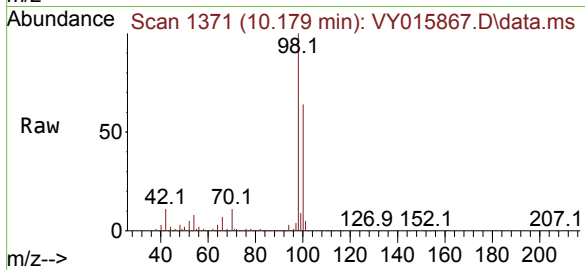




#50
Toluene-d8
Concen: 61.359 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY015867.D
Acq: 06 Oct 2023 17:10

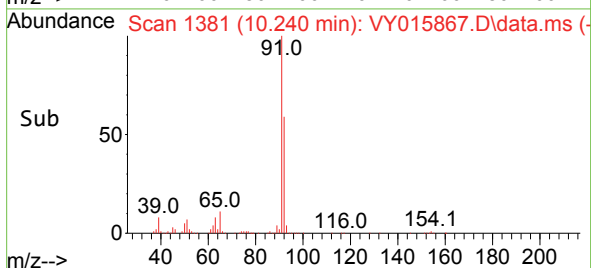
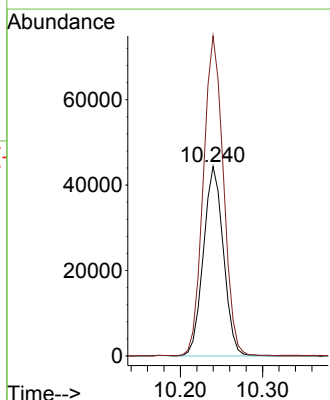
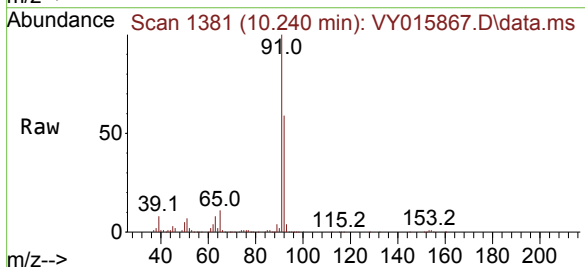
Instrument :
MSVOA_Y
ClientSampleId :

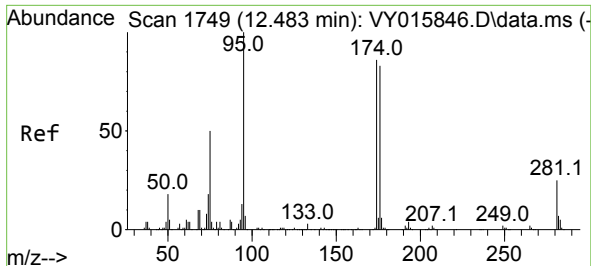
Tgt Ion: 98 Resp: 454796
Ion Ratio Lower Upper
98 100
100 65.1 50.1 75.1



#52
Toluene
Concen: 13.387 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VY015867.D
Acq: 06 Oct 2023 17:10

Tgt Ion: 92 Resp: 74857
Ion Ratio Lower Upper
92 100
91 168.9 143.8 215.6

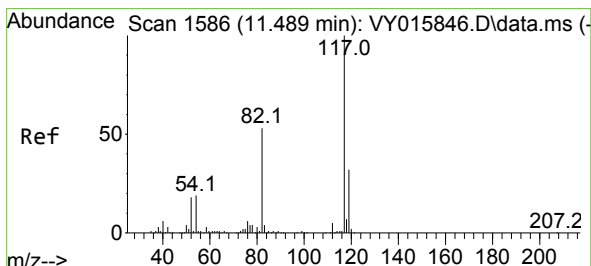
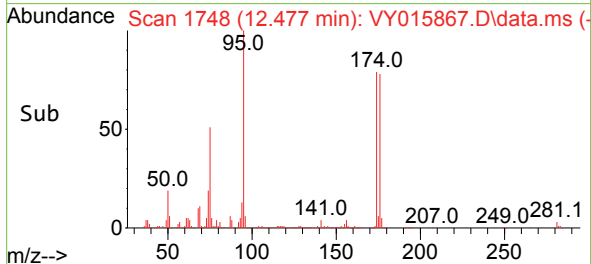
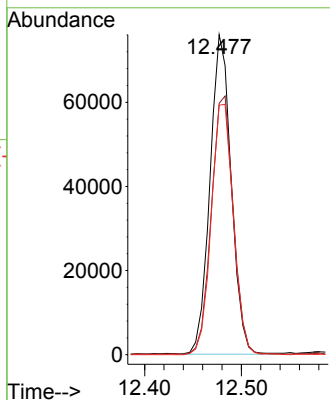
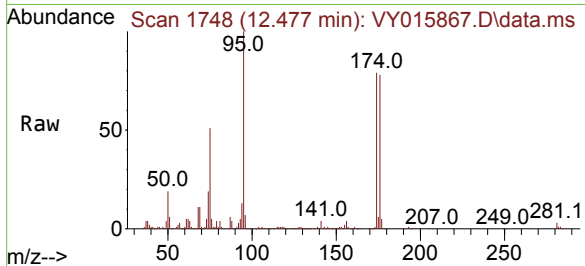




#62
4-Bromofluorobenzene
Concen: 38.216 ug/l
RT: 12.477 min Scan# 115782
Delta R.T. -0.006 min
Lab File: VY015867.D
Acq: 06 Oct 2023 17:10

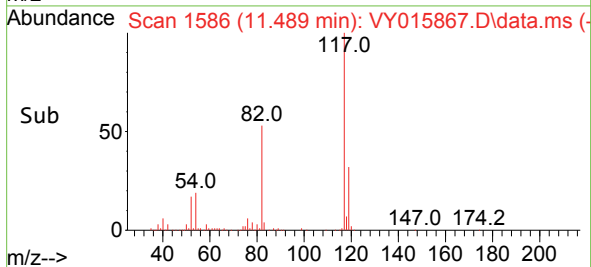
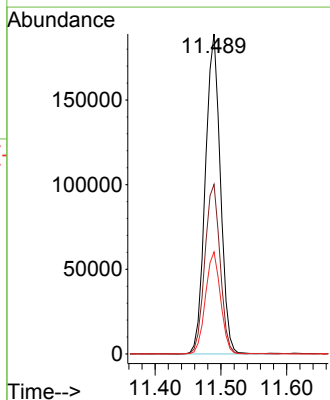
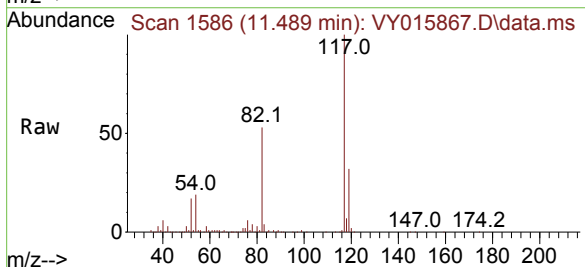
Instrument :
MSVOA_Y
ClientSampleId :

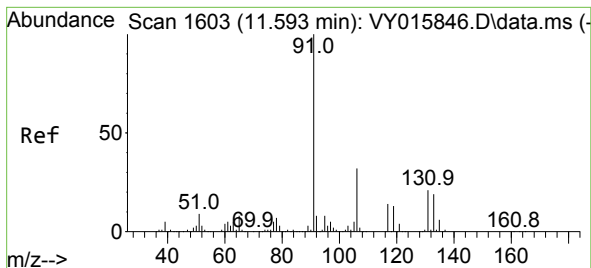
Tgt Ion	Ratio	Lower	Upper
95	100		
174	83.6	0.0	178.2
176	81.7	0.0	173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY015867.D
Acq: 06 Oct 2023 17:10

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.0	43.4	65.0
119	31.9	26.3	39.5





#67

Ethyl Benzene

Concen: 2.572 ug/l

RT: 11.587 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY015867.D

Acq: 06 Oct 2023 17:10

Instrument :

MSVOA_Y

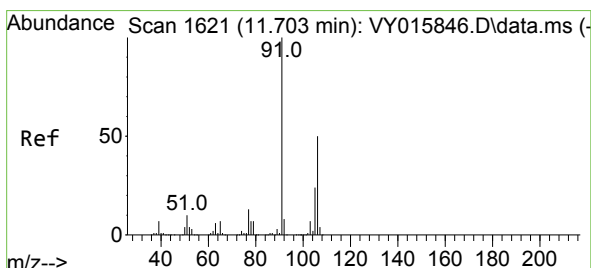
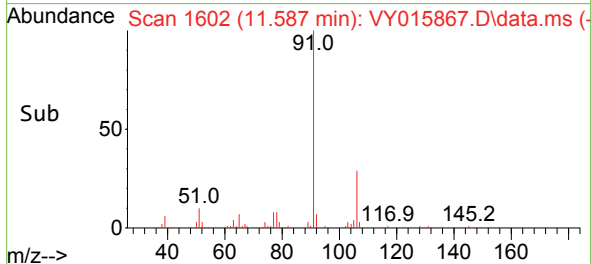
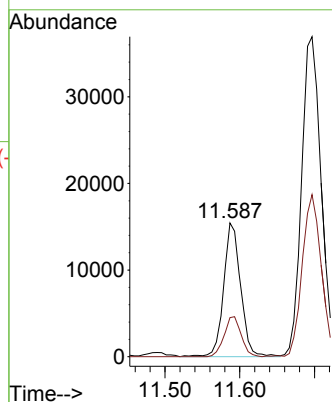
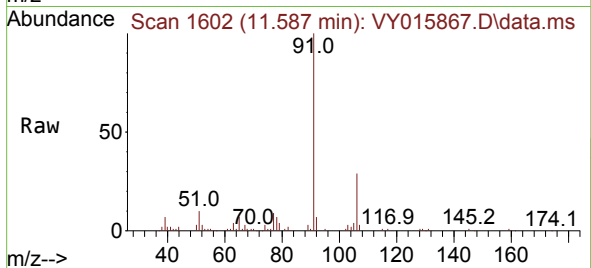
ClientSampleId :

Tgt Ion: 91 Resp: 24479

Ion Ratio Lower Upper

91 100

106 29.2 24.6 36.8



#68

m/p-Xylenes

Concen: 9.239 ug/l

RT: 11.697 min Scan# 1620

Delta R.T. -0.006 min

Lab File: VY015867.D

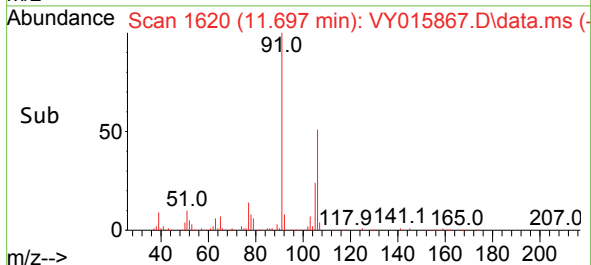
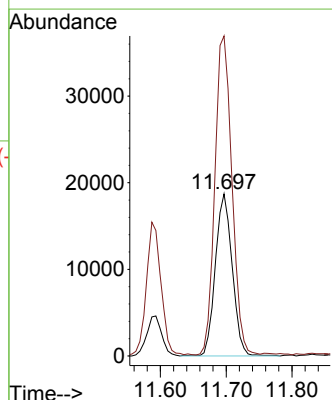
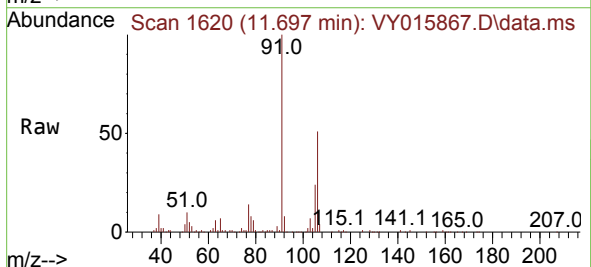
Acq: 06 Oct 2023 17:10

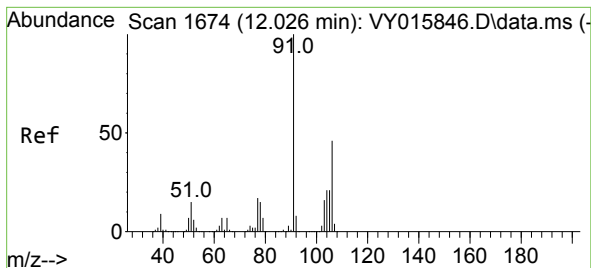
Tgt Ion:106 Resp: 33427

Ion Ratio Lower Upper

106 100

91 198.8 166.1 249.1





#69

o-Xylene

Concen: 6.141 ug/l

RT: 12.026 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY015867.D

Acq: 06 Oct 2023 17:10

Instrument :

MSVOA_Y

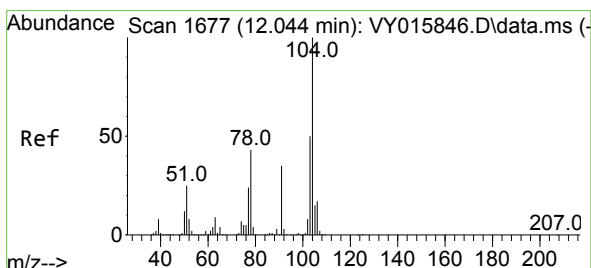
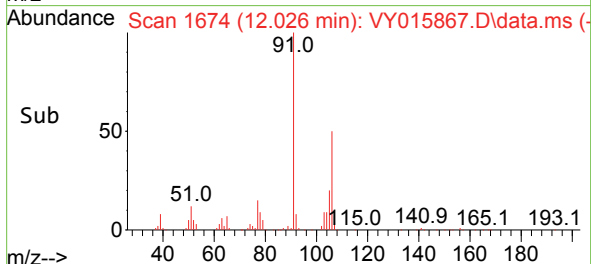
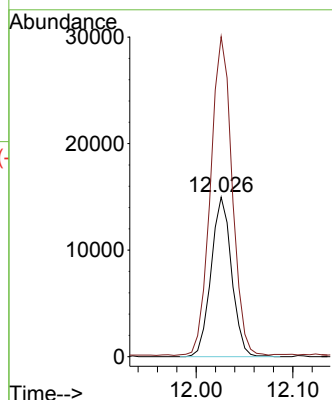
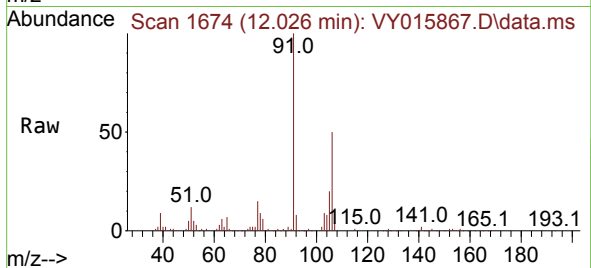
ClientSampleId :

Tgt Ion:106 Resp: 22098

Ion Ratio Lower Upper

106 100

91 210.4 108.1 324.3



#70

Styrene

Concen: 1.573 ug/l

RT: 12.044 min Scan# 1677

Delta R.T. 0.000 min

Lab File: VY015867.D

Acq: 06 Oct 2023 17:10

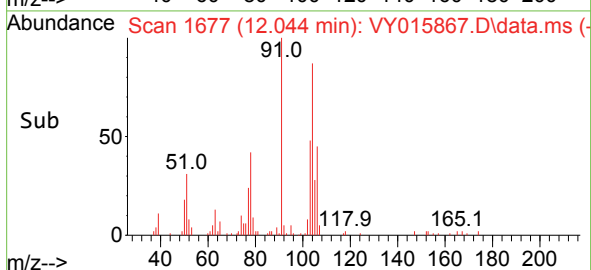
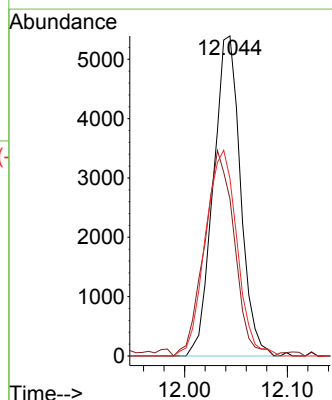
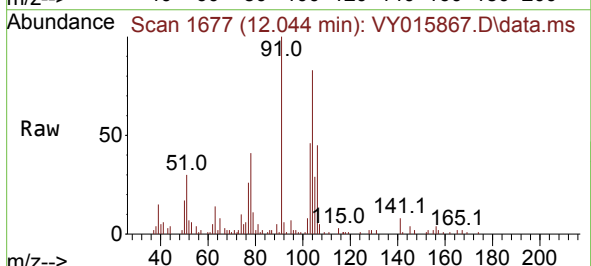
Tgt Ion:104 Resp: 9884

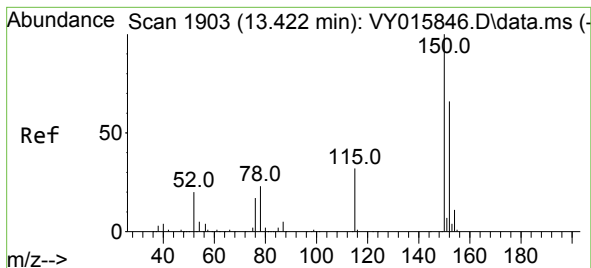
Ion Ratio Lower Upper

104 100

78 70.8 41.5 62.3#

103 75.2 44.6 67.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY015867.D

Acq: 06 Oct 2023 17:10

Instrument :

MSVOA_Y

ClientSampleId :

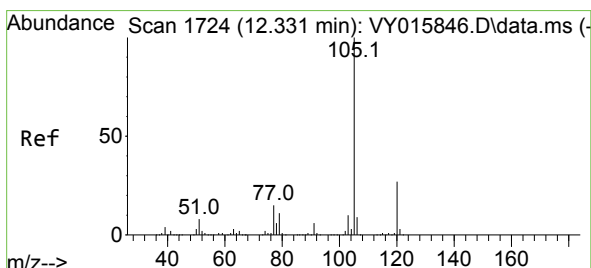
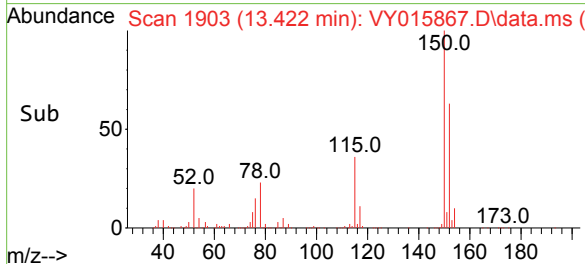
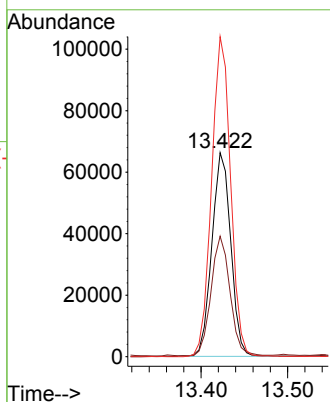
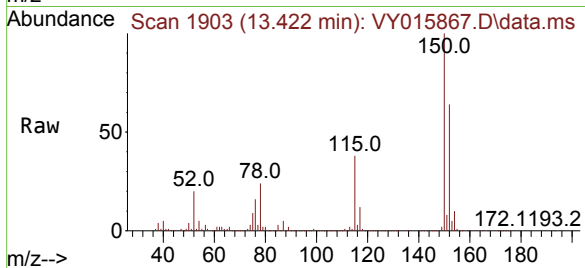
Tgt Ion:152 Resp: 100406

Ion Ratio Lower Upper

152 100

115 58.5 28.8 86.5

150 158.0 0.0 348.8



#73

Isopropylbenzene

Concen: 1.252 ug/l

RT: 12.331 min Scan# 1724

Delta R.T. 0.000 min

Lab File: VY015867.D

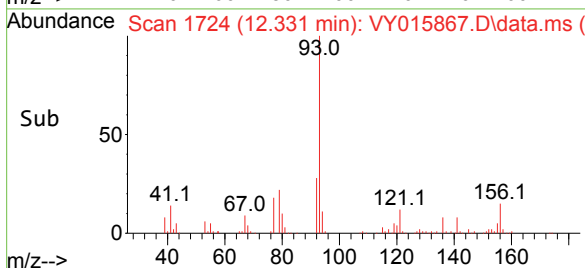
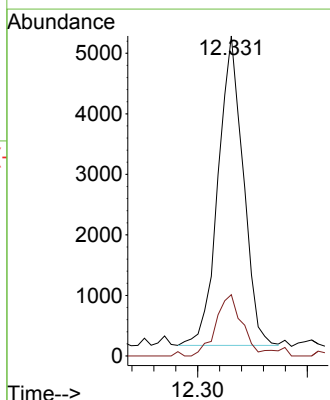
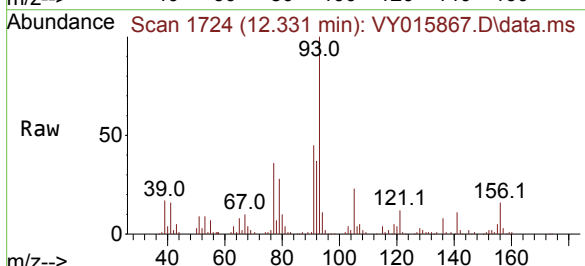
Acq: 06 Oct 2023 17:10

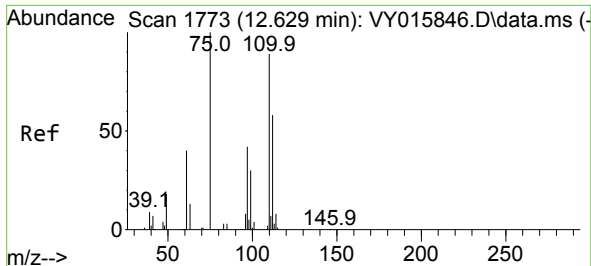
Tgt Ion:105 Resp: 8142

Ion Ratio Lower Upper

105 100

120 20.7 13.3 39.9

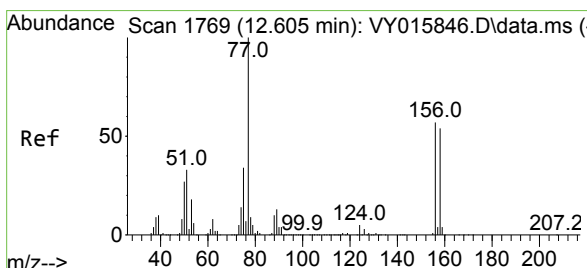
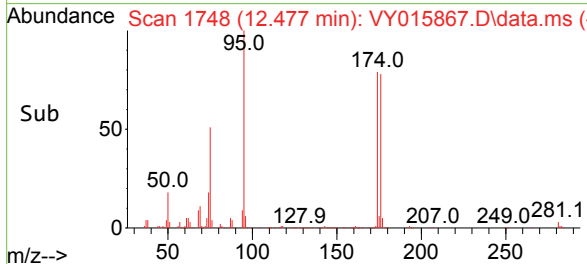
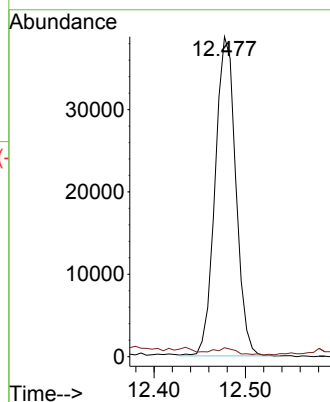
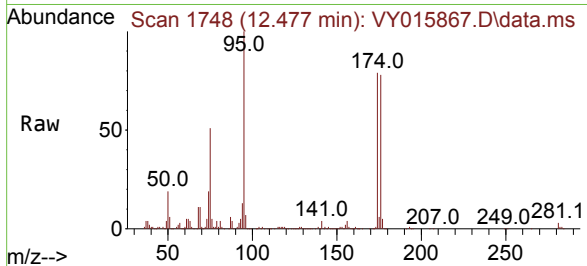




#76
1,2,3-Trichloropropane
Concen: 40.974 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.152 min
Lab File: VY015867.D
Acq: 06 Oct 2023 17:10

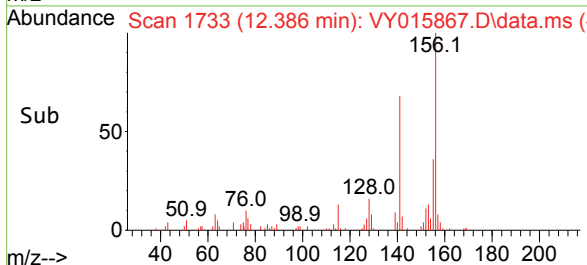
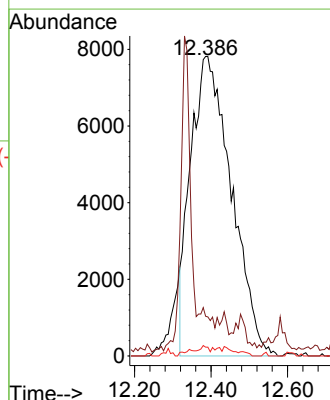
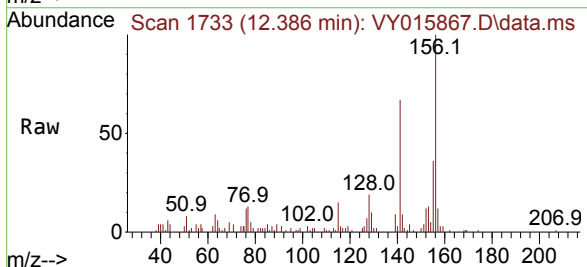
Instrument :
MSVOA_Y
ClientSampleId :

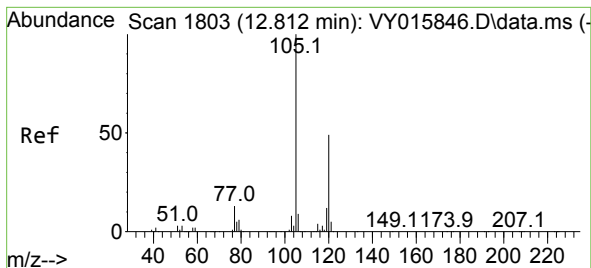
Tgt Ion: 75 Resp: 60902
Ion Ratio Lower Upper
75 100
77 2.2 0.0 0.0#



#77
Bromobenzene
Concen: 36.043 ug/l
RT: 12.386 min Scan# 1733
Delta R.T. -0.219 min
Lab File: VY015867.D
Acq: 06 Oct 2023 17:10

Tgt Ion: 156 Resp: 57994
Ion Ratio Lower Upper
156 100
77 0.0 92.8 278.6#
158 0.3 48.4 145.3#





#80

1,3,5-Trimethylbenzene

Concen: 3.676 ug/l

RT: 12.806 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY015867.D

Acq: 06 Oct 2023 17:10

Instrument :

MSVOA_Y

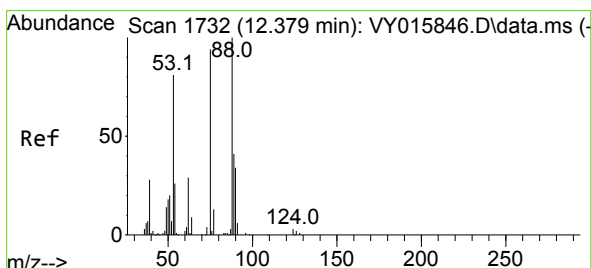
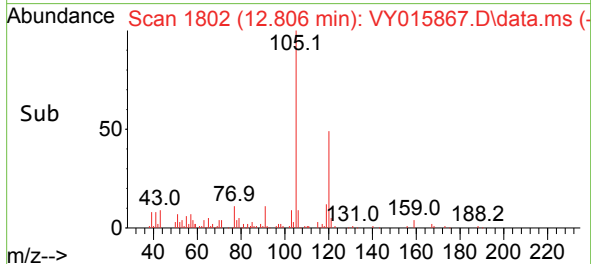
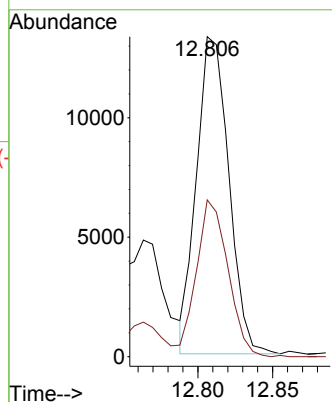
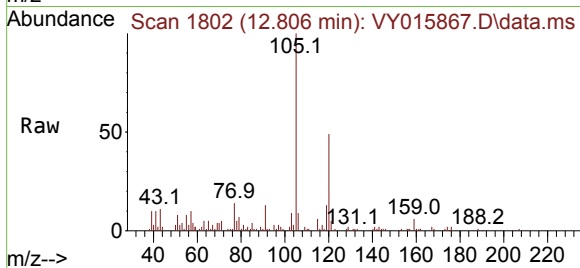
ClientSampleId :

Tgt Ion:105 Resp: 19924

Ion Ratio Lower Upper

105 100

120 48.7 23.9 71.7



#81

trans-1,4-Dichloro-2-butene

Concen: 94.850 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.098 min

Lab File: VY015867.D

Acq: 06 Oct 2023 17:10

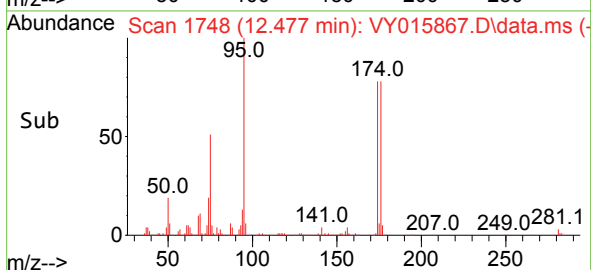
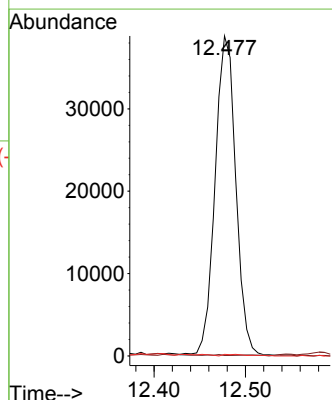
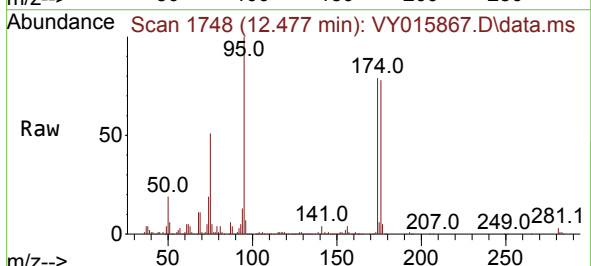
Tgt Ion: 75 Resp: 60902

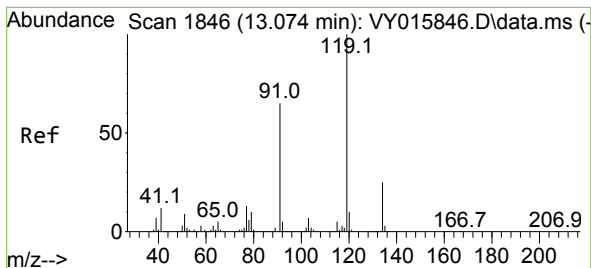
Ion Ratio Lower Upper

75 100

53 0.0 77.8 116.8#

89 0.6 37.4 56.0#





#83

tert-Butylbenzene

Concen: 1.128 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.043 min

Lab File: VY015867.D

Acq: 06 Oct 2023 17:10

Instrument :

MSVOA_Y

ClientSampleId :

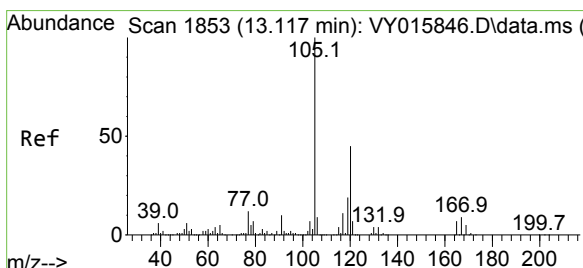
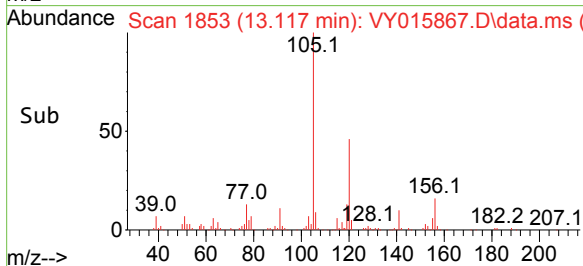
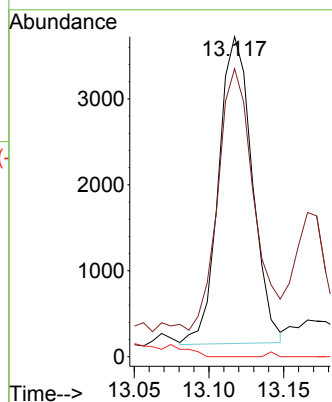
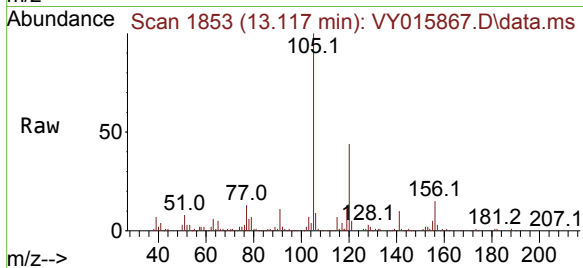
Tgt Ion:119 Resp: 5591

Ion Ratio Lower Upper

119 100

91 90.2 32.9 98.6

134 0.0 13.0 38.9#



#84

1,2,4-Trimethylbenzene

Concen: 8.113 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY015867.D

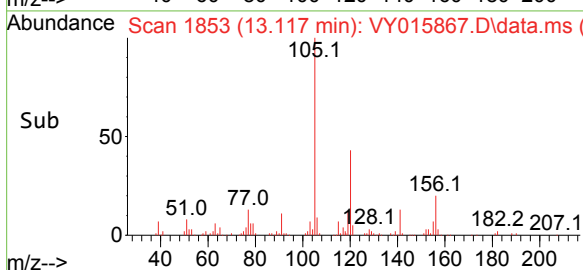
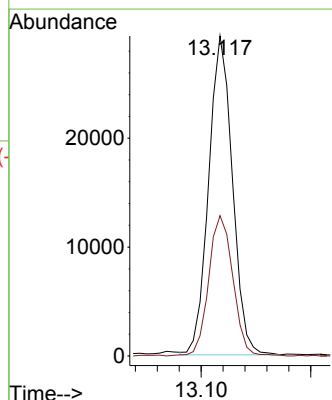
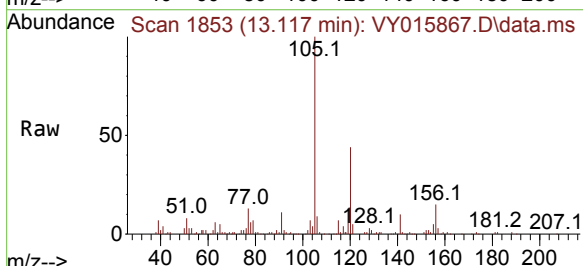
Acq: 06 Oct 2023 17:10

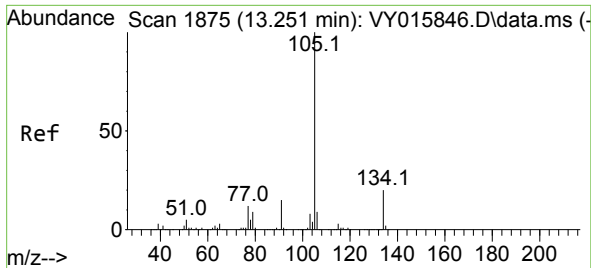
Tgt Ion:105 Resp: 44180

Ion Ratio Lower Upper

105 100

120 44.9 22.2 66.6

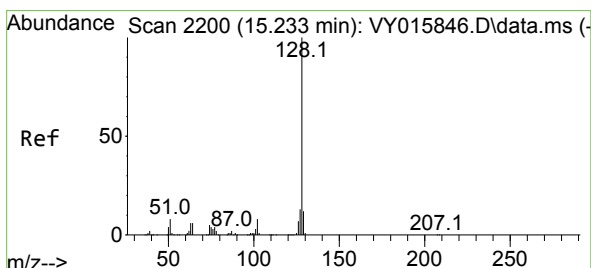
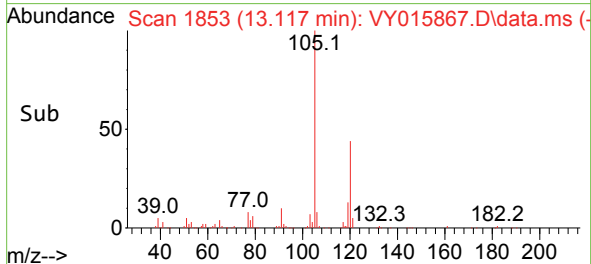
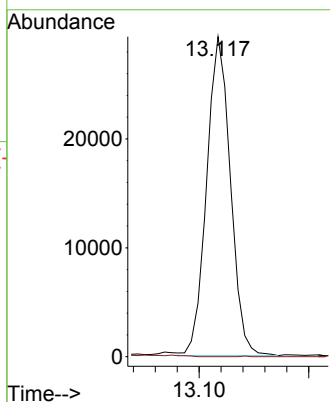
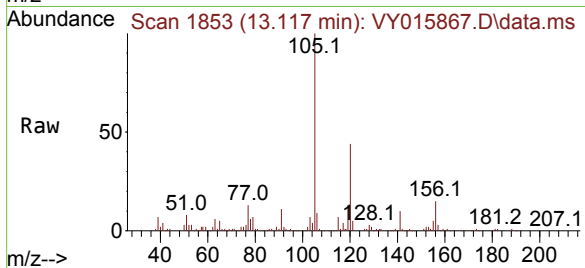




#85
 sec-Butylbenzene
 Concen: 6.078 ug/l
 RT: 13.117 min Scan# 1875
 Delta R.T. -0.134 min
 Lab File: VY015867.D
 Acq: 06 Oct 2023 17:10

Instrument :
 MSVOA_Y
 ClientSampleId :

Tgt Ion:105 Resp: 44180
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.2 30.6#



#95
 Naphthalene
 Concen: 105.987 ug/l
 RT: 15.233 min Scan# 2200
 Delta R.T. 0.000 min
 Lab File: VY015867.D
 Acq: 06 Oct 2023 17:10

Tgt Ion:128 Resp: 558093
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.8 16.2
 129 11.3 8.6 13.0

