

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101123\
 Data File : VY015936.D
 Acq On : 11 Oct 2023 20:03
 Operator : SY/MD
 Sample : 04841-02
 Misc : 9.59g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 12 02:01:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100923S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 10 07:06:18 2023
 Response via : Initial Calibration

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

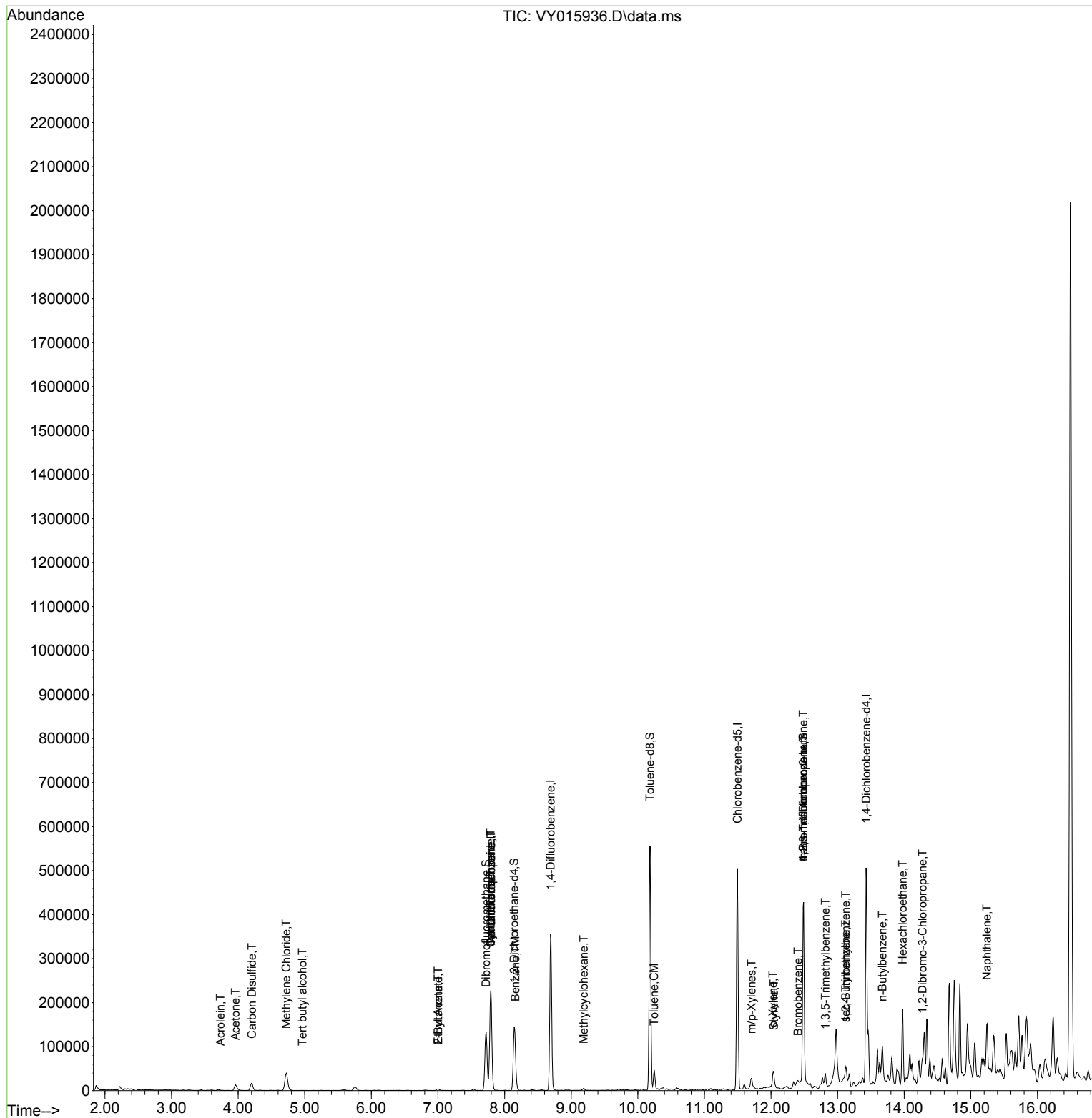
Internal Standards						
1) Pentafluorobenzene	7.795	168	182390	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	310656	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	280231	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	127594	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	104751	63.828	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 127.660%			
35) Dibromofluoromethane	7.722	113	97492	56.264	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 112.520%			
50) Toluene-d8	10.185	98	365038	63.922	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 127.840%			
62) 4-Bromofluorobenzene	12.483	95	123994	53.456	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 106.920%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.966	59	376	11.637	ug/l #	89
13) Acrolein	3.735	56	382	3.808	ug/l #	14
16) Acetone	3.960	43	22282	32.888	ug/l #	89
17) Carbon Disulfide	4.204	76	34468	23.408	ug/l #	94
20) Methylene Chloride	4.722	84	30920	10.703	ug/l	89
25) 2-Butanone	7.002	43	6302	7.000	ug/l #	89
31) Cyclohexane	7.789	56	4008	2.280	ug/l #	1
36) 1,1-Dichloropropene	7.795	75	13206	6.881	ug/l #	51
37) Ethyl Acetate	7.002	43	6302	3.824	ug/l #	71
38) Carbon Tetrachloride	7.789	117	18110	7.858	ug/l #	17
39) Methylcyclohexane	9.191	83	2019	1.036	ug/l #	82
40) Benzene	8.161	78	28667	4.753	ug/l	96
52) Toluene	10.246	92	18535	4.630	ug/l	93
68) m/p-Xylenes	11.709	106	7453	2.359	ug/l	98
69) o-Xylene	12.032	106	9242	2.923	ug/l	97
70) Styrene	12.044	104	5609	1.017	ug/l #	80
76) 1,2,3-Trichloropropane	12.483	75	65618	44.054	ug/l #	100
77) Bromobenzene	12.404	156	9774	4.952	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.819	105	10077	1.519	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.483	75	65618	97.689	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.123	105	13361	2.000	ug/l	98
85) sec-Butylbenzene	13.123	105	13361	1.472	ug/l #	56
89) n-Butylbenzene	13.672	91	8893	1.251	ug/l #	1
90) Hexachloroethane	13.977	117	7951	5.275	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.276	75	839	2.289	ug/l	69
95) Naphthalene	15.239	128	100207	18.300	ug/l #	95

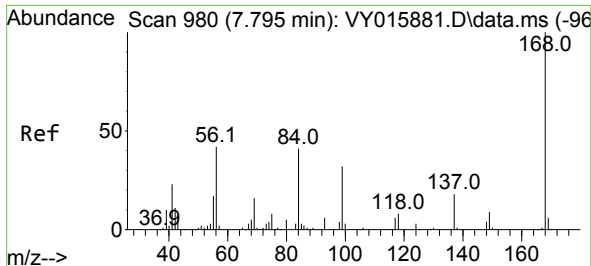
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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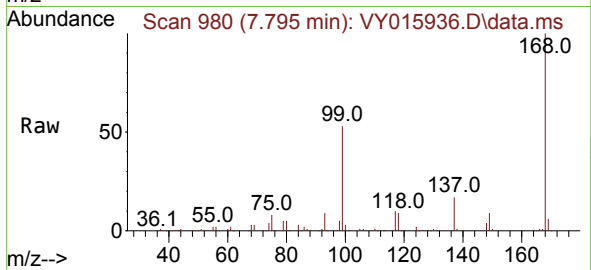
Quant Time: Oct 12 02:01:35 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100923S.M
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QLast Update : Tue Oct 10 07:06:18 2023
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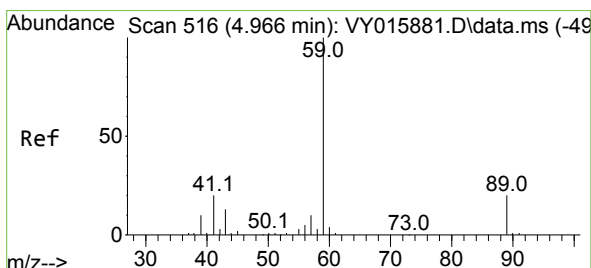
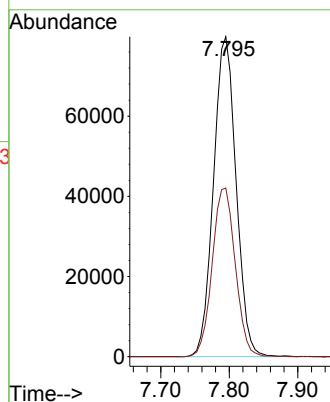
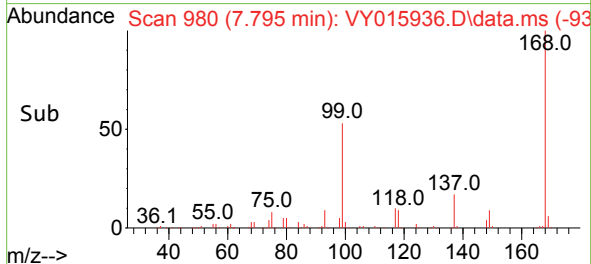


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 980
Delta R.T. 0.000 min
Lab File: VY015936.D
Acq: 11 Oct 2023 20:03

Instrument :
MSVOA_Y
ClientSampleId :

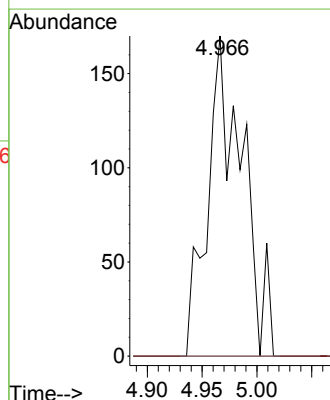
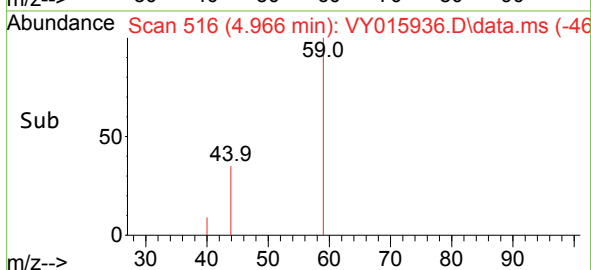
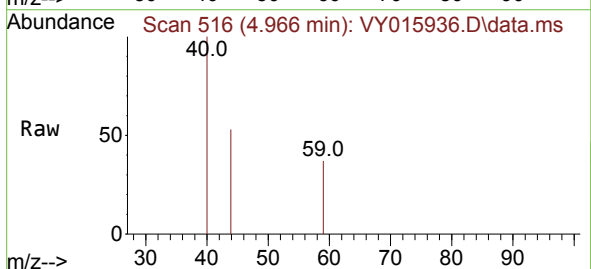


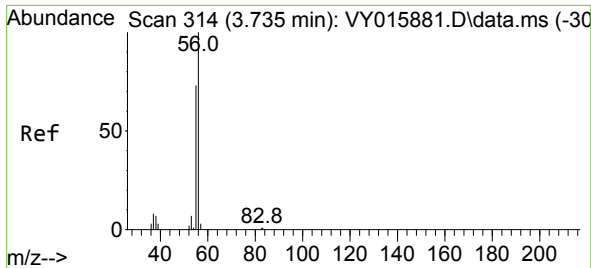
Tgt Ion:168 Resp: 182390
Ion Ratio Lower Upper
168 100
99 52.7 43.4 65.0



#11
Tert butyl alcohol
Concen: 11.637 ug/l
RT: 4.966 min Scan# 516
Delta R.T. 0.000 min
Lab File: VY015936.D
Acq: 11 Oct 2023 20:03

Tgt Ion: 59 Resp: 376
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#





#13

Acrolein

Concen: 3.808 ug/l

RT: 3.735 min Scan# 314

Delta R.T. 0.000 min

Lab File: VY015936.D

Acq: 11 Oct 2023 20:03

Instrument :

MSVOA_Y

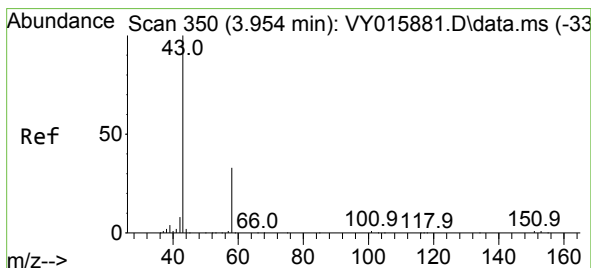
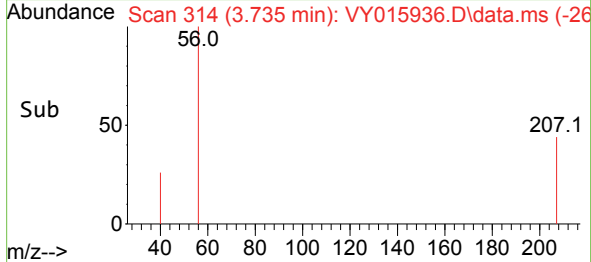
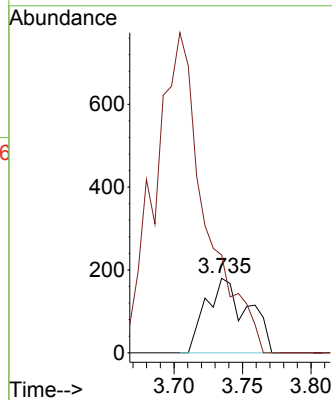
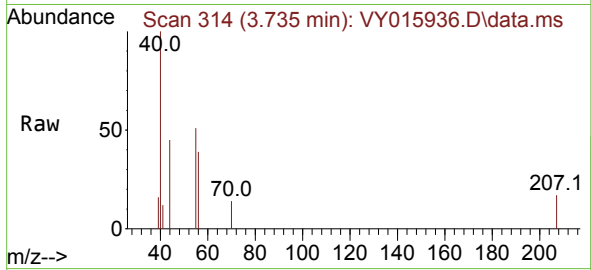
ClientSampleId :

Tgt Ion: 56 Resp: 382

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#16

Acetone

Concen: 32.888 ug/l

RT: 3.960 min Scan# 351

Delta R.T. 0.006 min

Lab File: VY015936.D

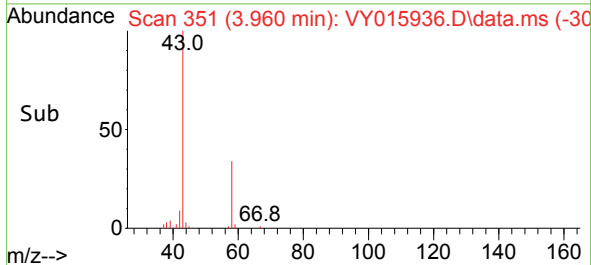
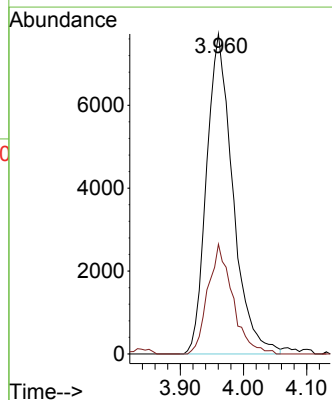
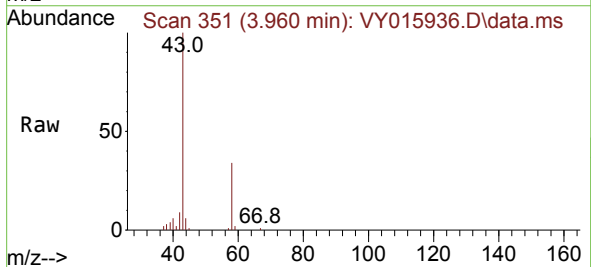
Acq: 11 Oct 2023 20:03

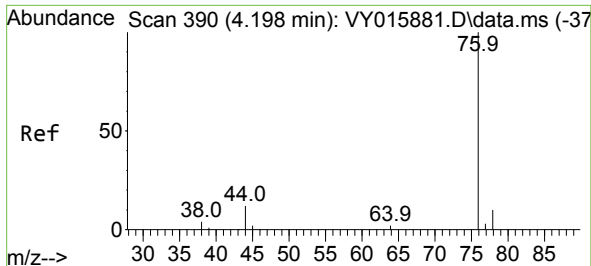
Tgt Ion: 43 Resp: 22282

Ion Ratio Lower Upper

43 100

58 34.3 22.7 34.1#





#17

Carbon Disulfide

Concen: 23.408 ug/l

RT: 4.204 min Scan# 390

Delta R.T. 0.006 min

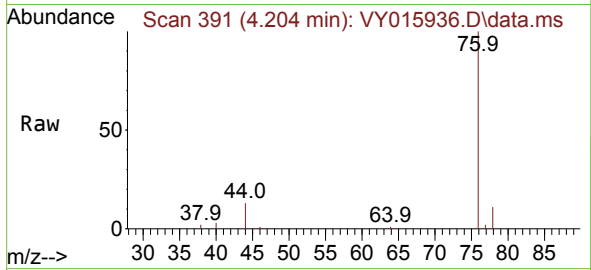
Lab File: VY015936.D

Acq: 11 Oct 2023 20:03

Instrument :

MSVOA_Y

ClientSampleId :

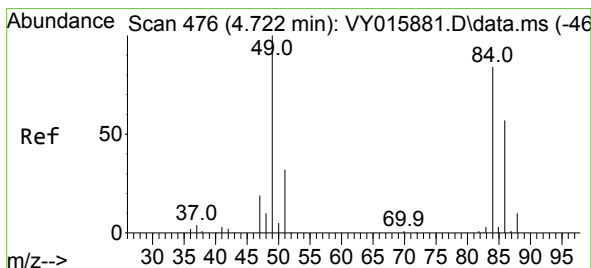
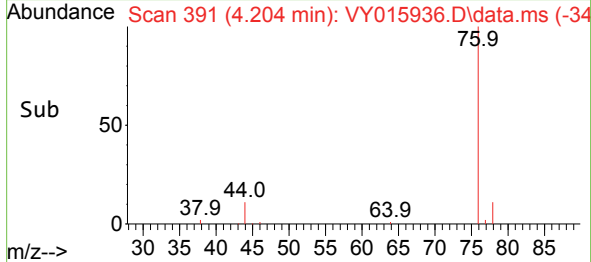
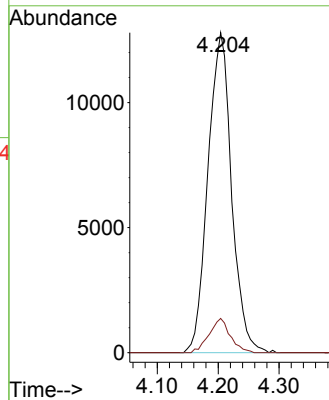


Tgt Ion: 76 Resp: 34468

Ion Ratio Lower Upper

76 100

78 10.7 7.0 10.4#



#20

Methylene Chloride

Concen: 10.703 ug/l

RT: 4.722 min Scan# 476

Delta R.T. 0.000 min

Lab File: VY015936.D

Acq: 11 Oct 2023 20:03

Tgt Ion: 84 Resp: 30920

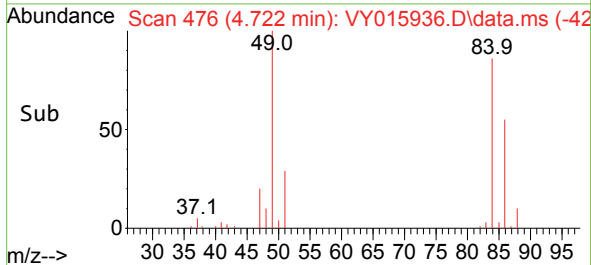
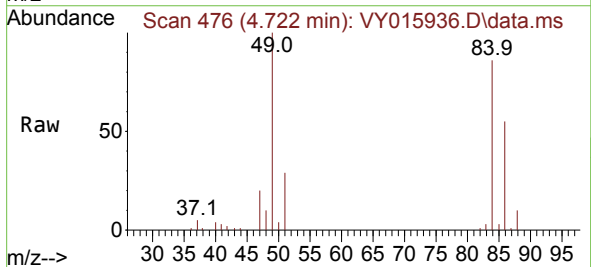
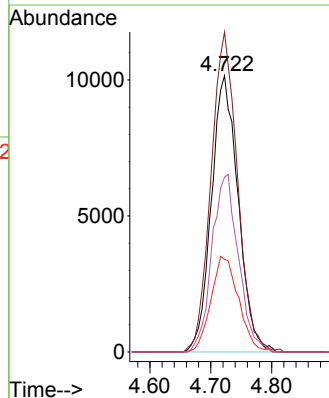
Ion Ratio Lower Upper

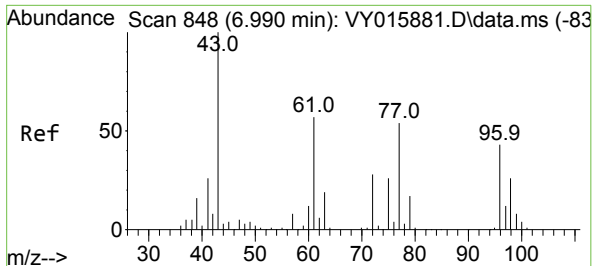
84 100

49 115.8 106.9 160.3

51 33.5 33.2 49.8

86 63.3 51.0 76.6





#25

2-Butanone

Concen: 7.000 ug/l

RT: 7.002 min Scan# 848

Delta R.T. 0.012 min

Lab File: VY015936.D

Acq: 11 Oct 2023 20:03

Instrument :

MSVOA_Y

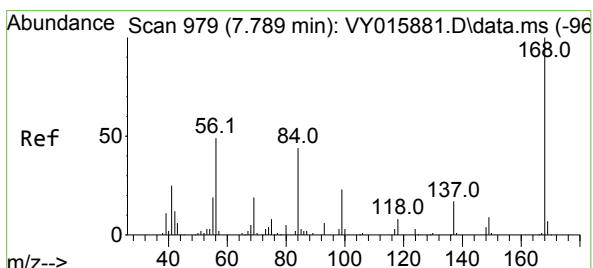
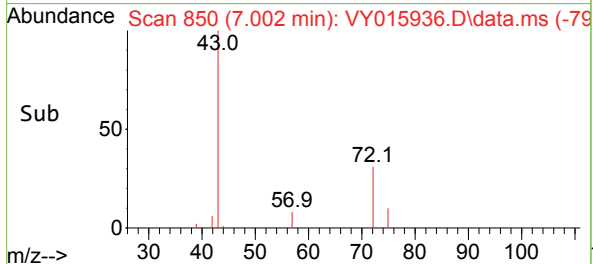
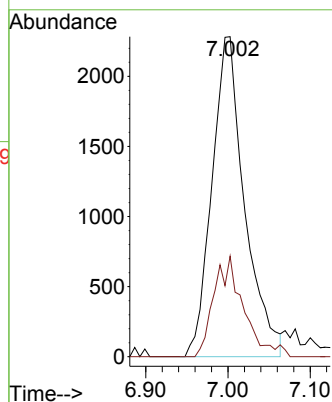
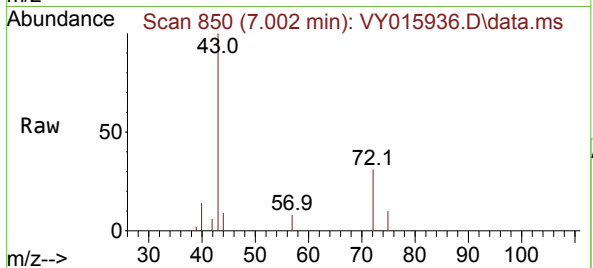
ClientSampleId :

Tgt Ion: 43 Resp: 6302

Ion Ratio Lower Upper

43 100

72 31.4 20.5 30.7#



#31

Cyclohexane

Concen: 2.280 ug/l

RT: 7.789 min Scan# 979

Delta R.T. 0.000 min

Lab File: VY015936.D

Acq: 11 Oct 2023 20:03

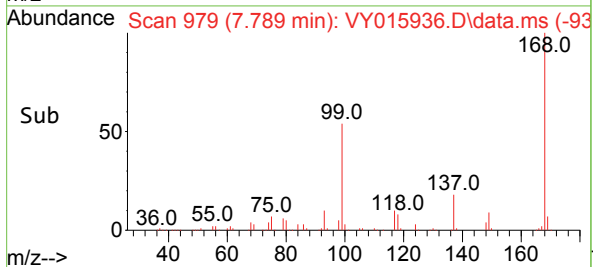
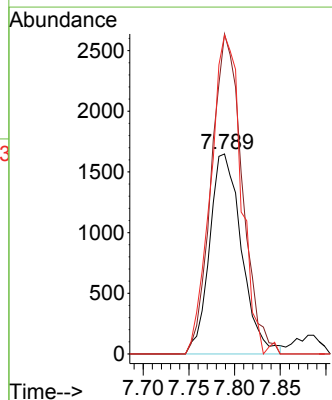
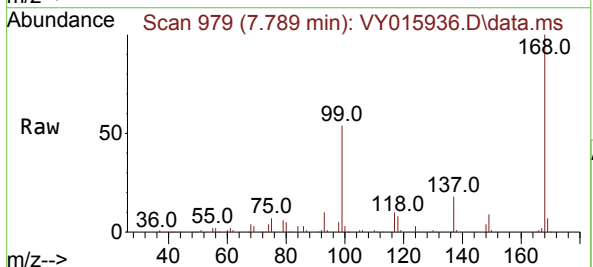
Tgt Ion: 56 Resp: 4008

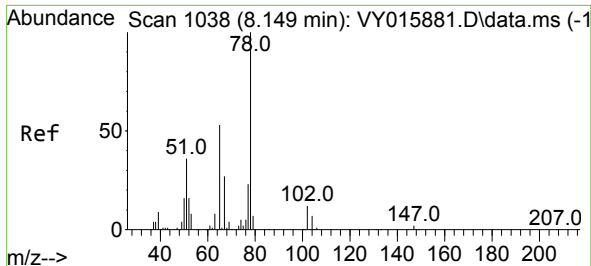
Ion Ratio Lower Upper

56 100

69 160.0 27.8 41.6#

84 159.5 66.4 99.6#

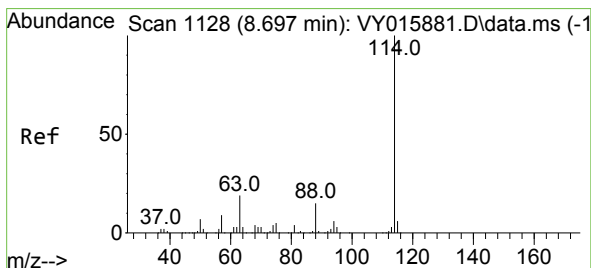
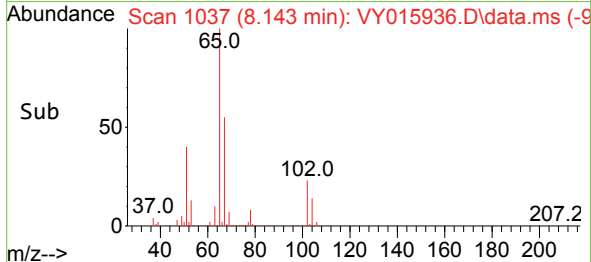
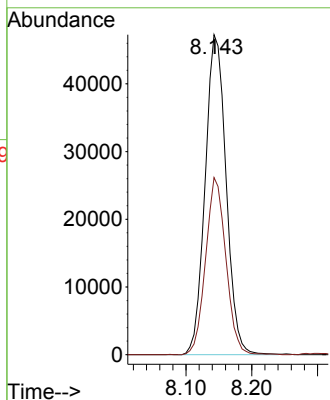
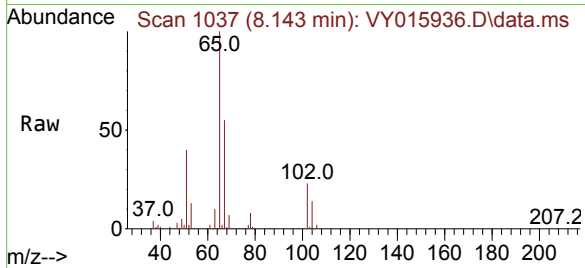




#33
 1,2-Dichloroethane-d4
 Concen: 63.828 ug/l
 RT: 8.143 min Scan# 1037
 Delta R.T. -0.006 min
 Lab File: VY015936.D
 Acq: 11 Oct 2023 20:03

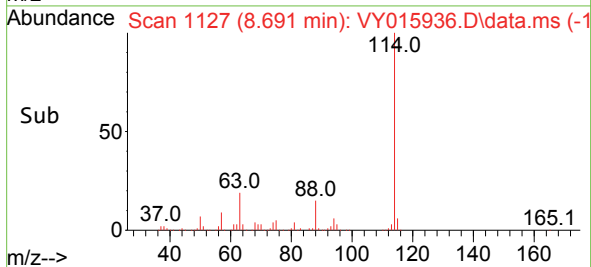
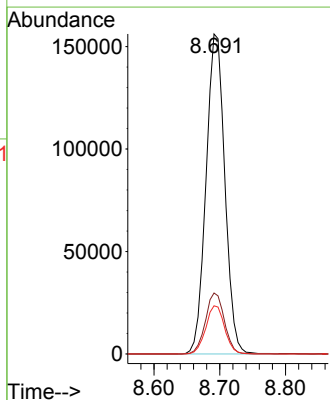
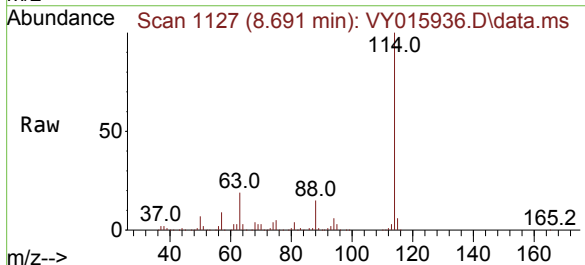
Instrument :
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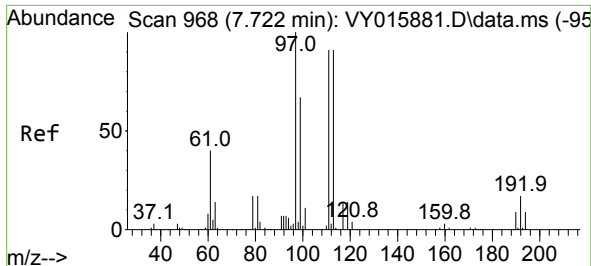
Tgt Ion: 65 Resp: 104751
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.691 min Scan# 1127
 Delta R.T. -0.006 min
 Lab File: VY015936.D
 Acq: 11 Oct 2023 20:03

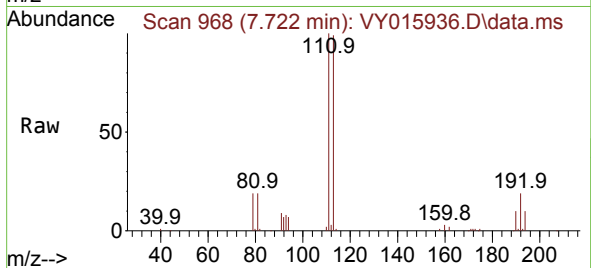
Tgt Ion: 114 Resp: 310656
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 42.4
 88 15.1 0.0 30.6



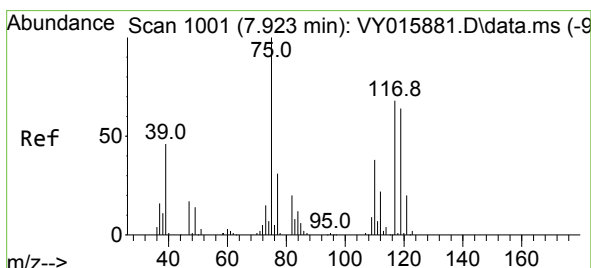
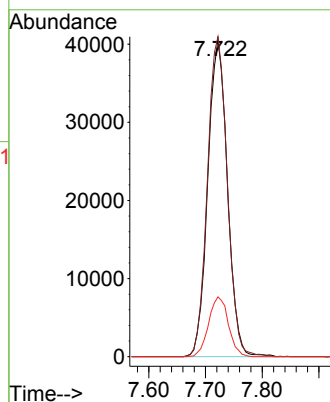
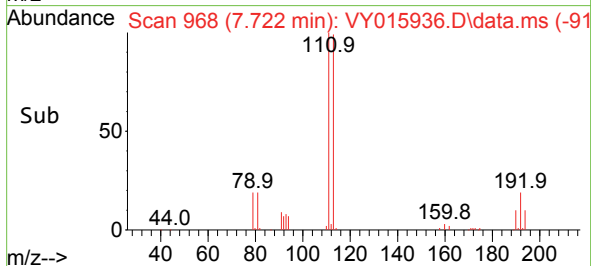


#35
Dibromofluoromethane
Concen: 56.264 ug/l
RT: 7.722 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY015936.D
Acq: 11 Oct 2023 20:03

Instrument :
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ClientSampleId :

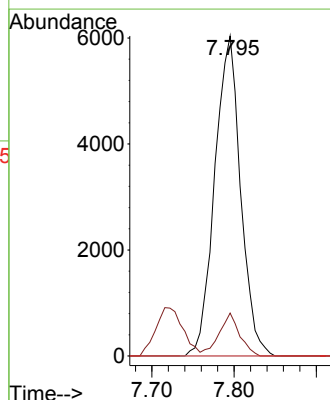
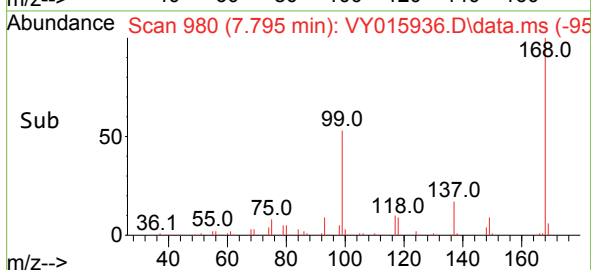
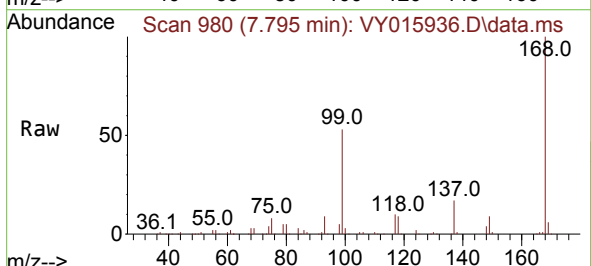


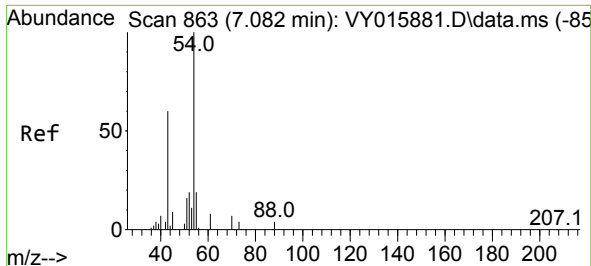
Tgt Ion:113 Resp: 97492
Ion Ratio Lower Upper
113 100
111 102.5 81.3 121.9
192 19.1 16.9 25.3



#36
1,1-Dichloropropene
Concen: 6.881 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.128 min
Lab File: VY015936.D
Acq: 11 Oct 2023 20:03

Tgt Ion: 75 Resp: 13206
Ion Ratio Lower Upper
75 100
110 10.7 17.8 53.5#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 3.824 ug/l

RT: 7.002 min Scan# 81

Delta R.T. -0.079 min

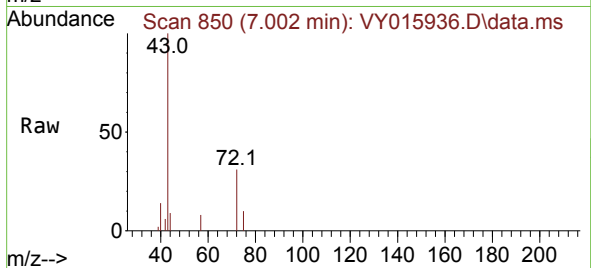
Lab File: VY015936.D

Acq: 11 Oct 2023 20:03

Instrument :

MSVOA_Y

ClientSampleId :



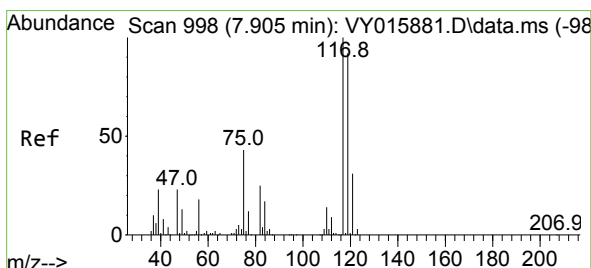
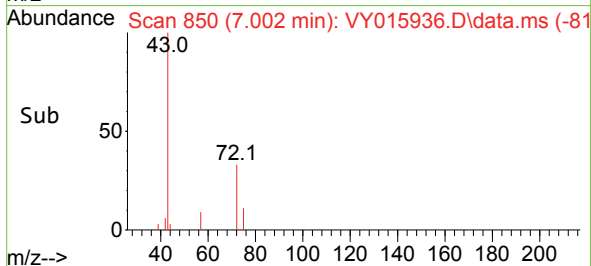
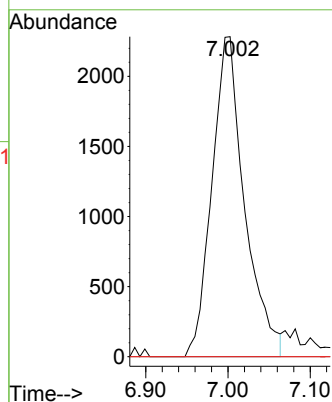
Tgt Ion: 43 Resp: 6302

Ion Ratio Lower Upper

43 100

61 0.0 10.1 15.1#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 7.858 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.116 min

Lab File: VY015936.D

Acq: 11 Oct 2023 20:03

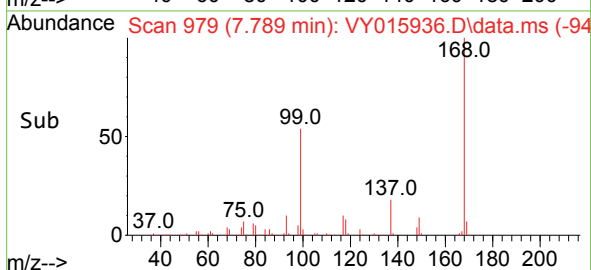
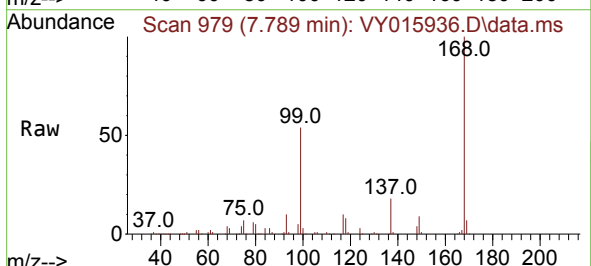
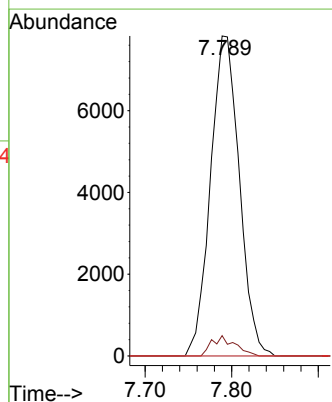
Tgt Ion: 117 Resp: 18110

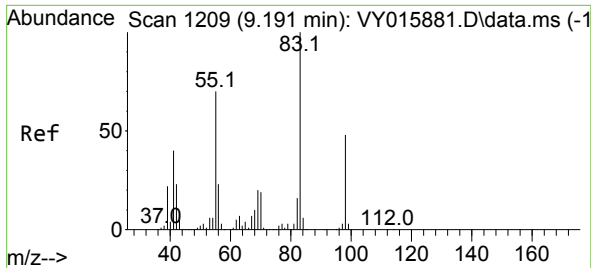
Ion Ratio Lower Upper

117 100

119 6.4 76.4 114.6#

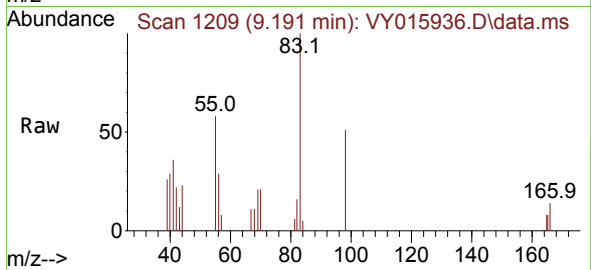
121 0.0 25.8 38.6#



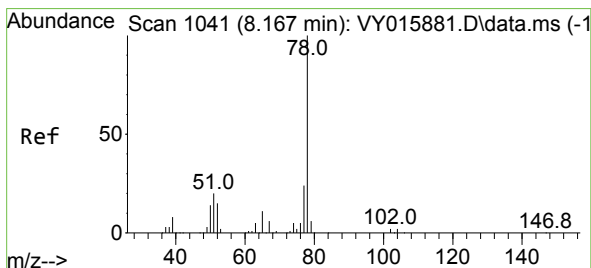
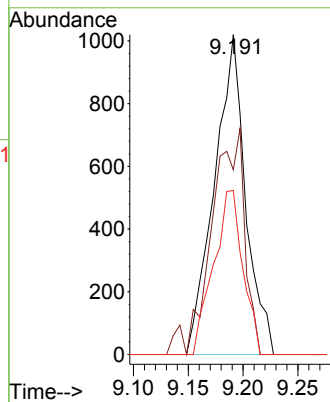
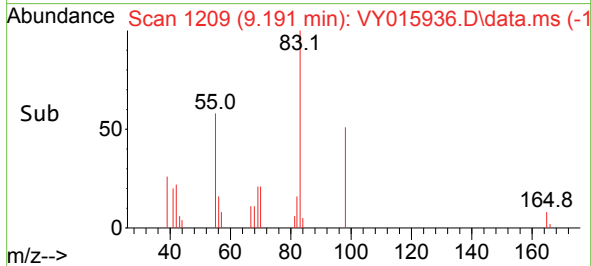


#39
Methylcyclohexane
Concen: 1.036 ug/l
RT: 9.191 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015936.D
Acq: 11 Oct 2023 20:03

Instrument :
MSVOA_Y
ClientSampleId :

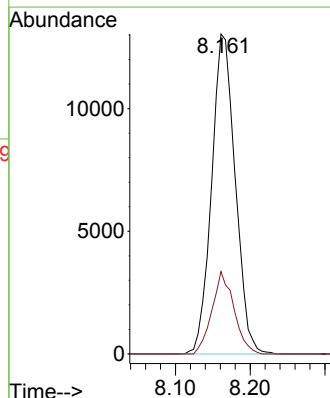
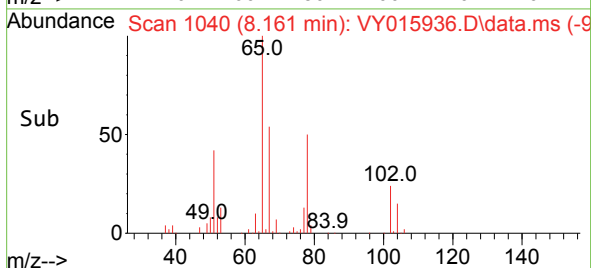
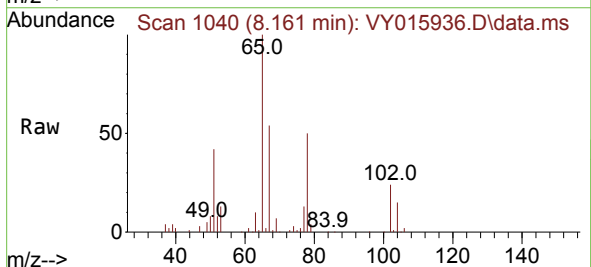


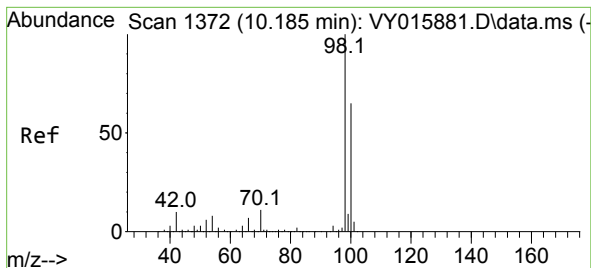
Tgt Ion: 83 Resp: 2019
Ion Ratio Lower Upper
83 100
55 57.7 63.0 94.4#
98 51.3 37.4 56.2



#40
Benzene
Concen: 4.753 ug/l
RT: 8.161 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY015936.D
Acq: 11 Oct 2023 20:03

Tgt Ion: 78 Resp: 28667
Ion Ratio Lower Upper
78 100
77 25.8 19.0 28.6





#50

Toluene-d8

Concen: 63.922 ug/l

RT: 10.185 min Scan# 1372

Delta R.T. 0.000 min

Lab File: VY015936.D

Acq: 11 Oct 2023 20:03

Instrument :

MSVOA_Y

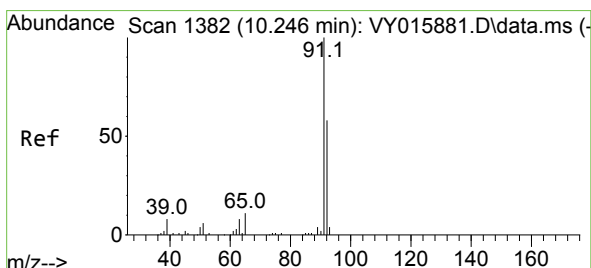
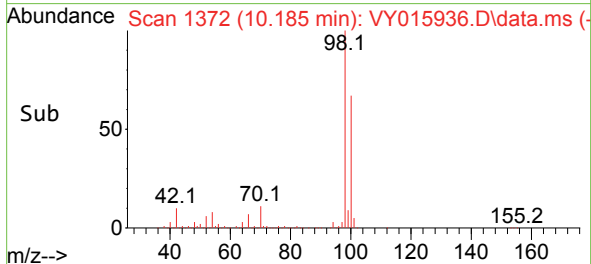
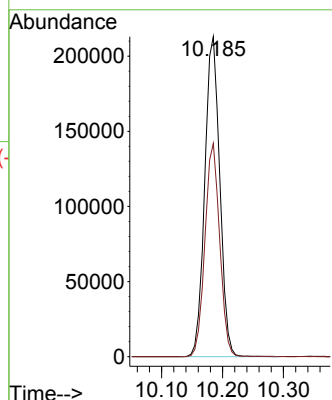
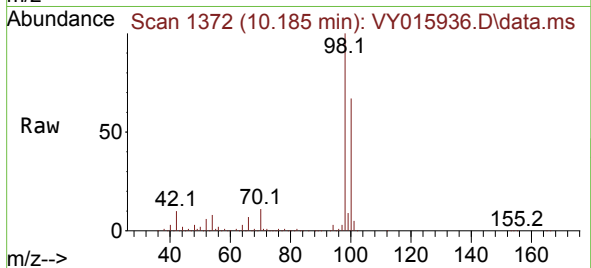
ClientSampleId :

Tgt Ion: 98 Resp: 365038

Ion Ratio Lower Upper

98 100

100 65.4 50.1 75.1



#52

Toluene

Concen: 4.630 ug/l

RT: 10.246 min Scan# 1382

Delta R.T. 0.000 min

Lab File: VY015936.D

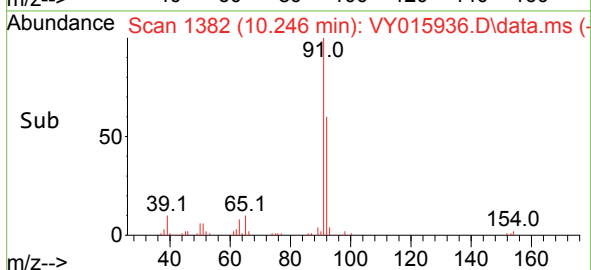
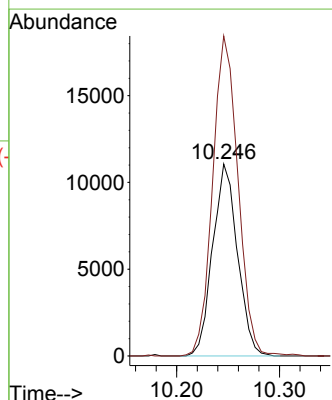
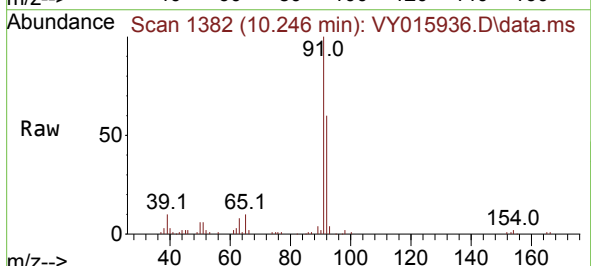
Acq: 11 Oct 2023 20:03

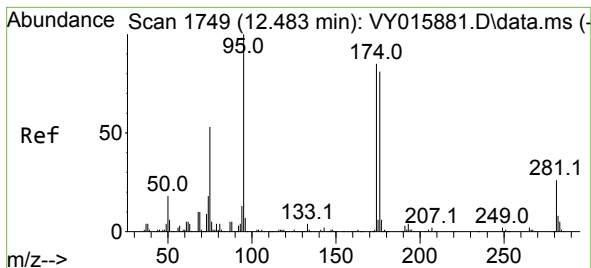
Tgt Ion: 92 Resp: 18535

Ion Ratio Lower Upper

92 100

91 170.4 143.8 215.6

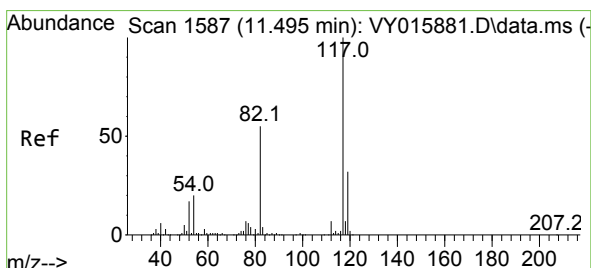
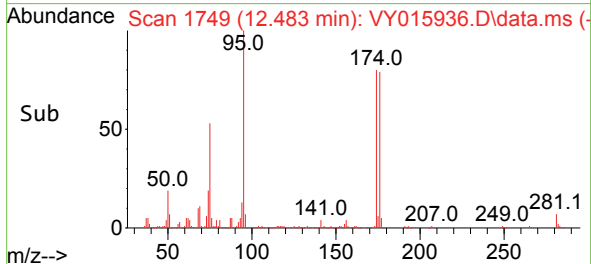
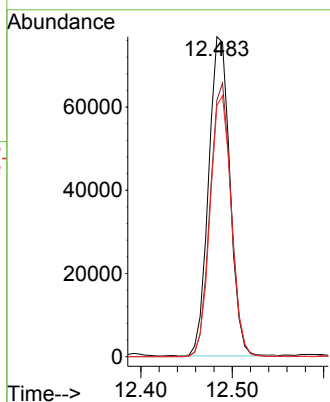
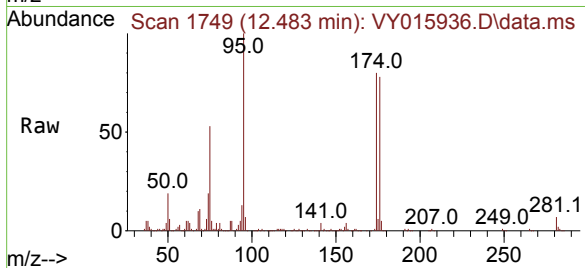




#62
4-Bromofluorobenzene
Concen: 53.456 ug/l
RT: 12.483 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015936.D
Acq: 11 Oct 2023 20:03

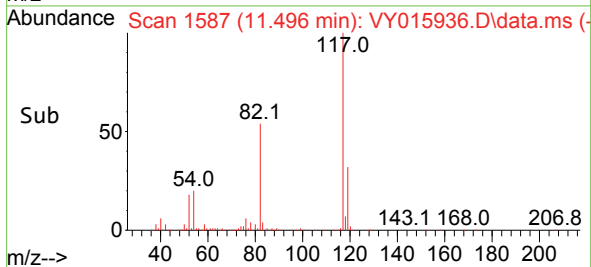
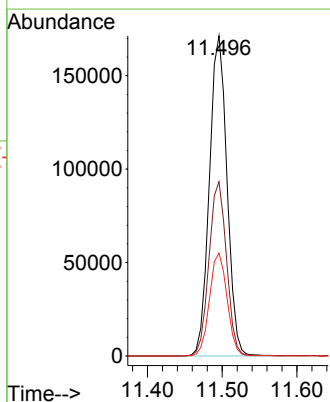
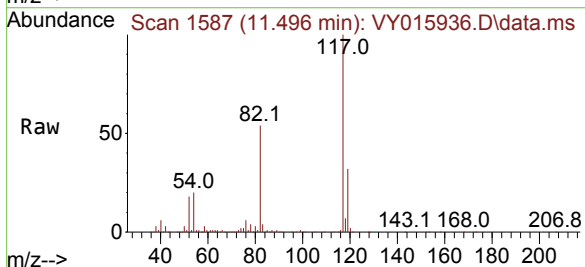
Instrument :
MSVOA_Y
ClientSampleId :

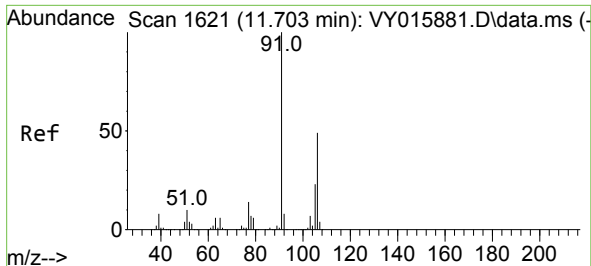
Tgt Ion: 95 Resp: 123994
Ion Ratio Lower Upper
95 100
174 84.6 0.0 178.2
176 81.6 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 1587
Delta R.T. 0.000 min
Lab File: VY015936.D
Acq: 11 Oct 2023 20:03

Tgt Ion: 117 Resp: 280231
Ion Ratio Lower Upper
117 100
82 54.4 43.4 65.0
119 32.2 26.3 39.5





#68

m/p-Xylenes

Concen: 2.359 ug/l

RT: 11.709 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY015936.D

Acq: 11 Oct 2023 20:03

Instrument :

MSVOA_Y

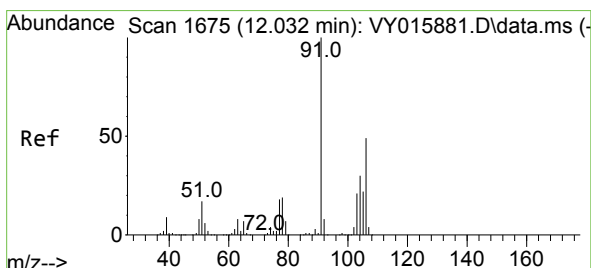
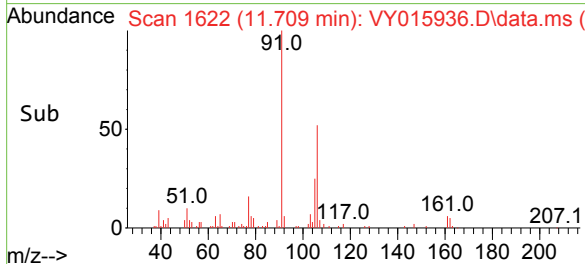
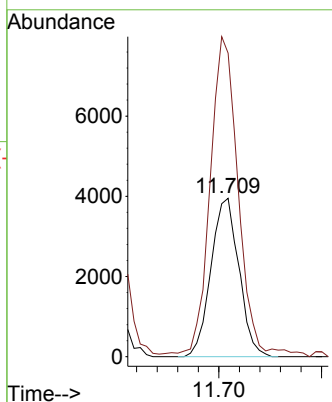
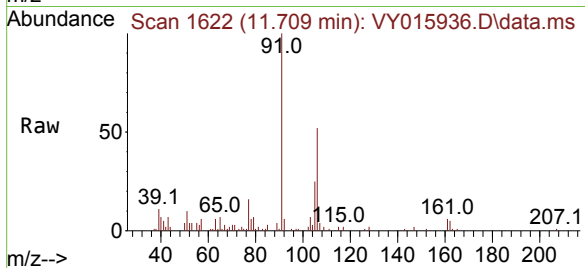
ClientSampleId :

Tgt Ion:106 Resp: 7453

Ion Ratio Lower Upper

106 100

91 205.2 166.1 249.1



#69

o-Xylene

Concen: 2.923 ug/l

RT: 12.032 min Scan# 1675

Delta R.T. 0.000 min

Lab File: VY015936.D

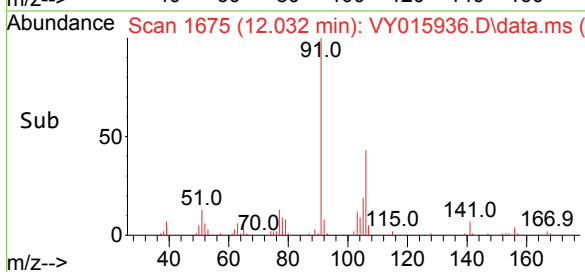
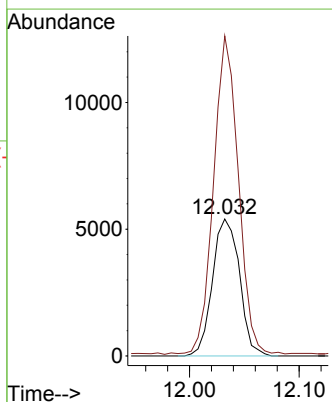
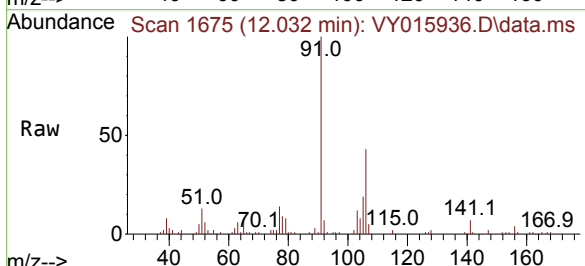
Acq: 11 Oct 2023 20:03

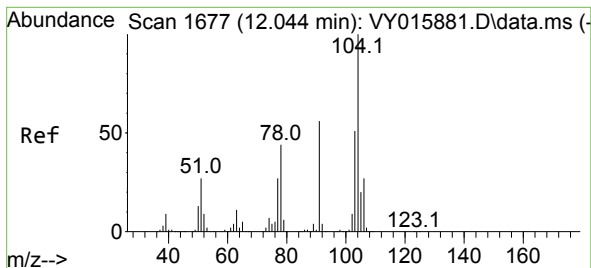
Tgt Ion:106 Resp: 9242

Ion Ratio Lower Upper

106 100

91 211.9 108.1 324.3





#70

Styrene

Concen: 1.017 ug/l

RT: 12.044 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY015936.D

Acq: 11 Oct 2023 20:03

Instrument :

MSVOA_Y

ClientSampleId :

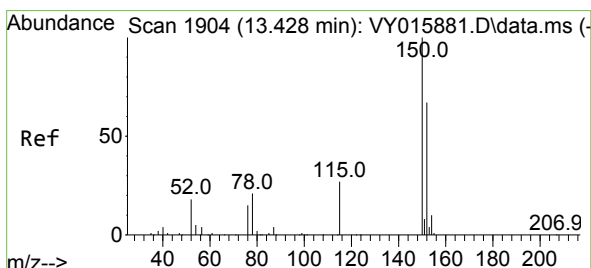
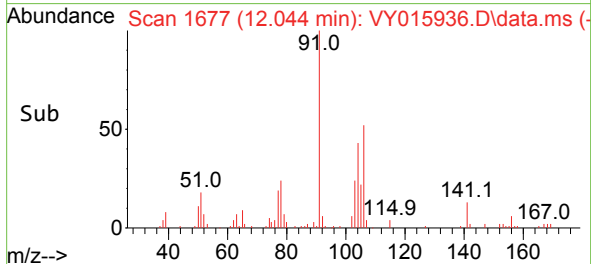
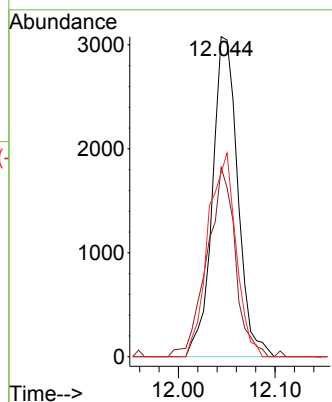
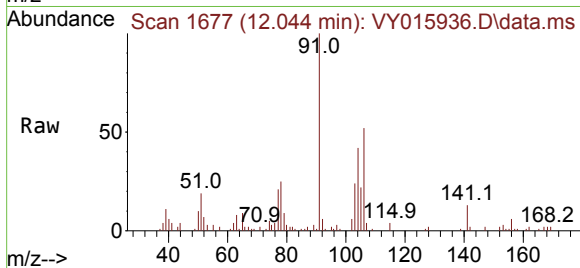
Tgt Ion:104 Resp: 5609

Ion Ratio Lower Upper

104 100

78 66.0 41.5 62.3#

103 70.2 44.6 67.0#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VY015936.D

Acq: 11 Oct 2023 20:03

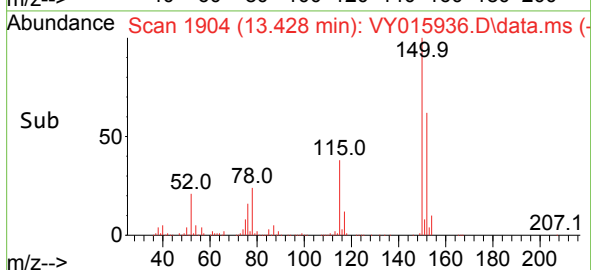
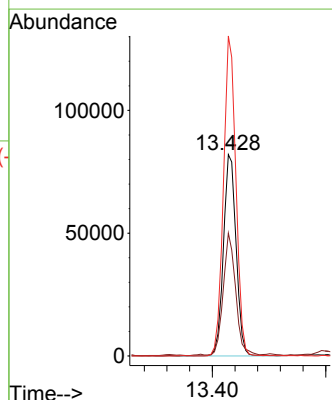
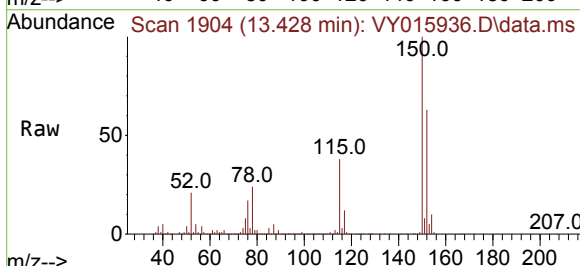
Tgt Ion:152 Resp: 127594

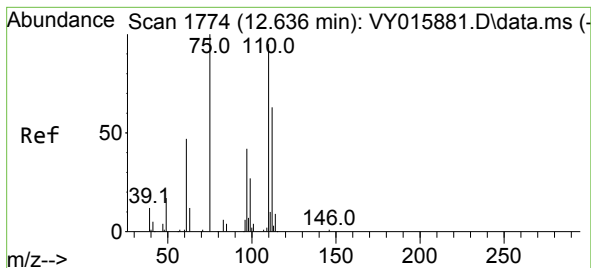
Ion Ratio Lower Upper

152 100

115 58.6 28.8 86.5

150 155.3 0.0 348.8





#76

1,2,3-Trichloropropane

Concen: 44.054 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.152 min

Lab File: VY015936.D

Acq: 11 Oct 2023 20:03

Instrument :

MSVOA_Y

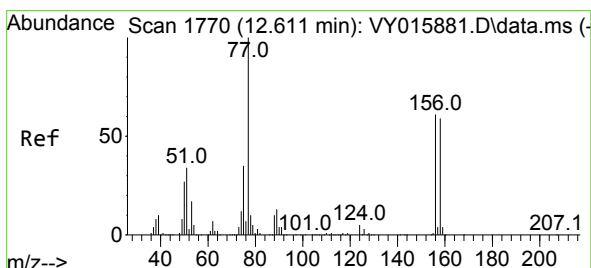
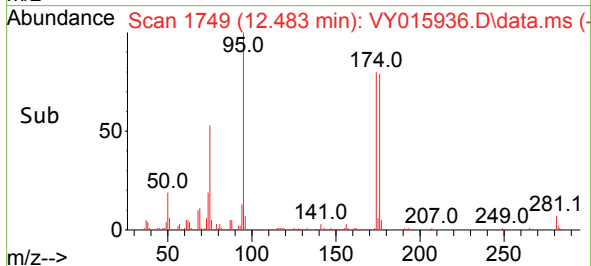
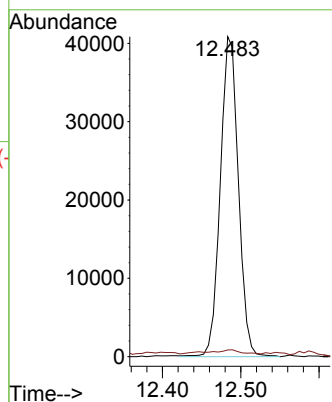
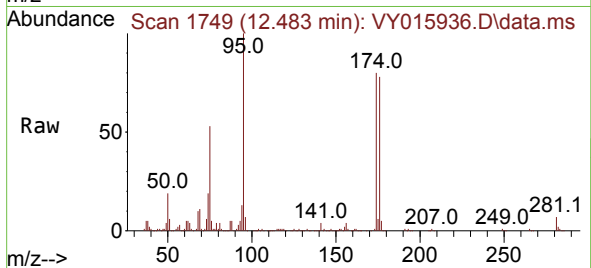
ClientSampleId :

Tgt Ion: 75 Resp: 65618

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#77

Bromobenzene

Concen: 4.952 ug/l

RT: 12.404 min Scan# 1736

Delta R.T. -0.207 min

Lab File: VY015936.D

Acq: 11 Oct 2023 20:03

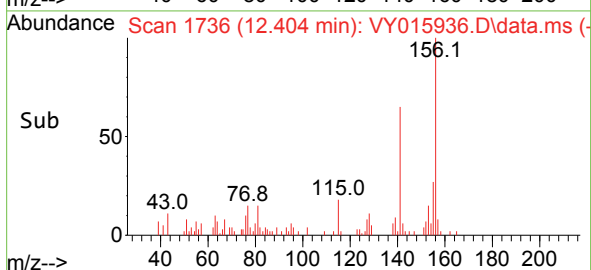
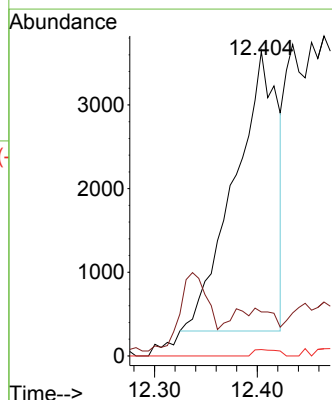
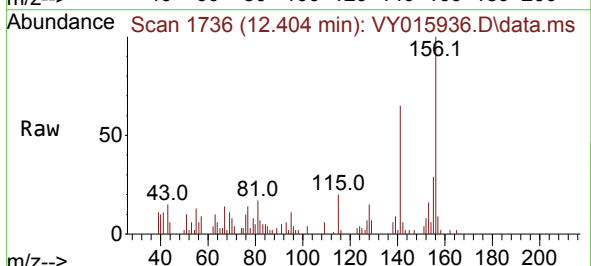
Tgt Ion: 156 Resp: 9774

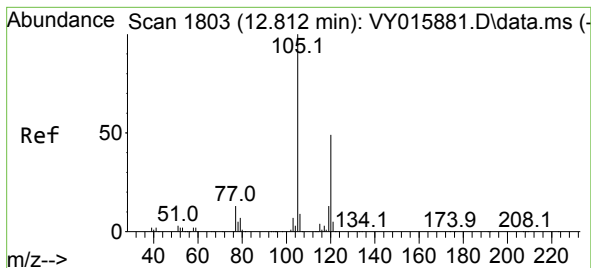
Ion Ratio Lower Upper

156 100

77 0.0 92.8 278.6#

158 1.3 48.4 145.3#





#80

1,3,5-Trimethylbenzene

Concen: 1.519 ug/l

RT: 12.819 min Scan# 1749

Delta R.T. 0.006 min

Lab File: VY015936.D

Acq: 11 Oct 2023 20:03

Instrument :

MSVOA_Y

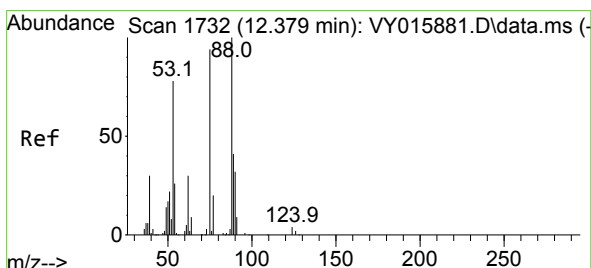
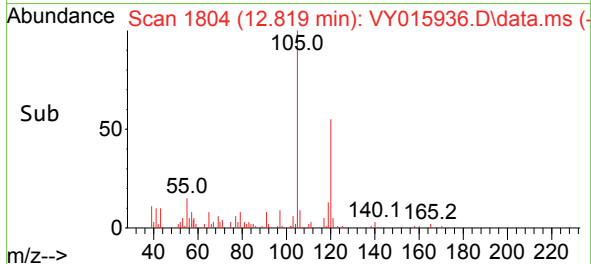
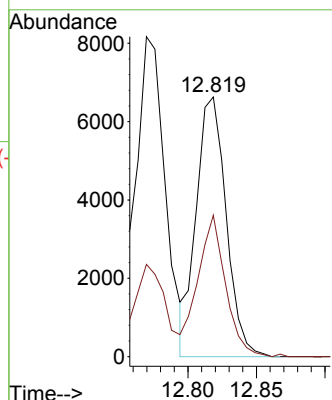
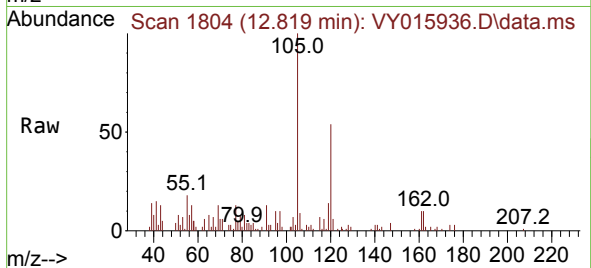
ClientSampleId :

Tgt Ion:105 Resp: 10077

Ion Ratio Lower Upper

105 100

120 50.4 23.9 71.7



#81

trans-1,4-Dichloro-2-butene

Concen: 97.689 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.104 min

Lab File: VY015936.D

Acq: 11 Oct 2023 20:03

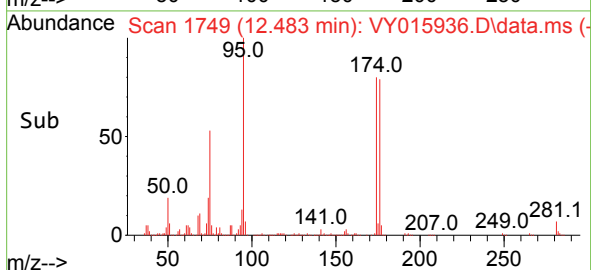
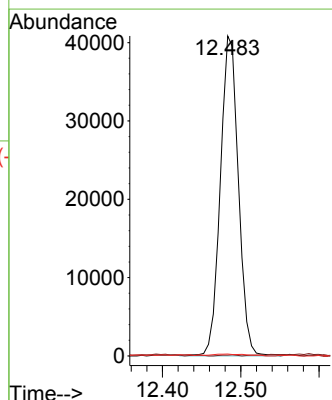
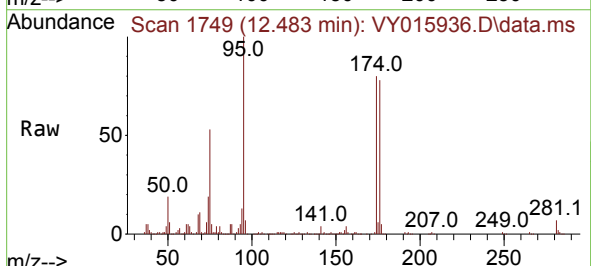
Tgt Ion: 75 Resp: 65618

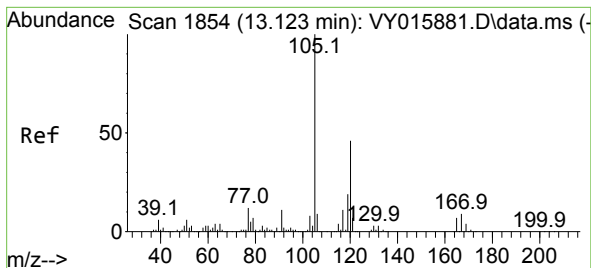
Ion Ratio Lower Upper

75 100

53 0.3 77.8 116.8#

89 1.1 37.4 56.0#





#84

1,2,4-Trimethylbenzene

Concen: 2.000 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. 0.000 min

Lab File: VY015936.D

Acq: 11 Oct 2023 20:03

Instrument :

MSVOA_Y

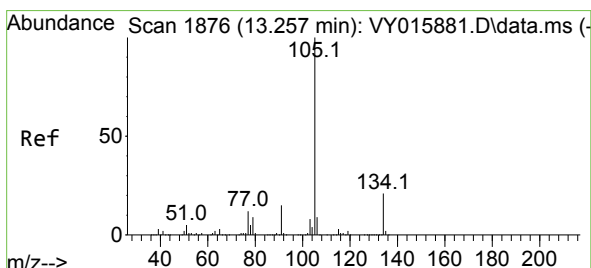
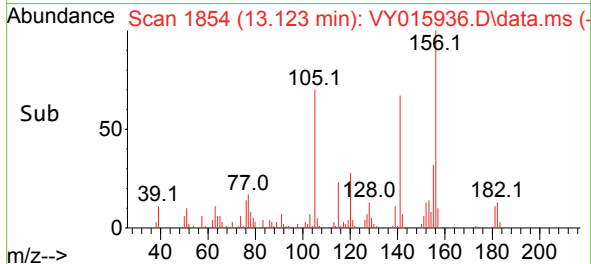
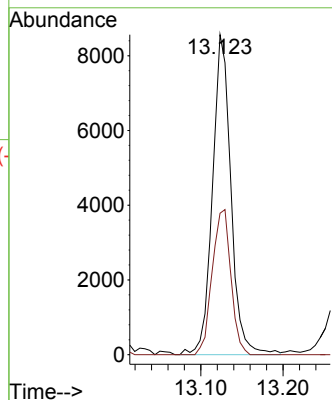
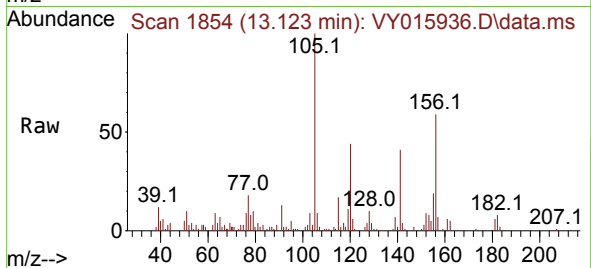
ClientSampleId :

Tgt Ion:105 Resp: 13361

Ion Ratio Lower Upper

105 100

120 45.8 22.2 66.6



#85

sec-Butylbenzene

Concen: 1.472 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. -0.134 min

Lab File: VY015936.D

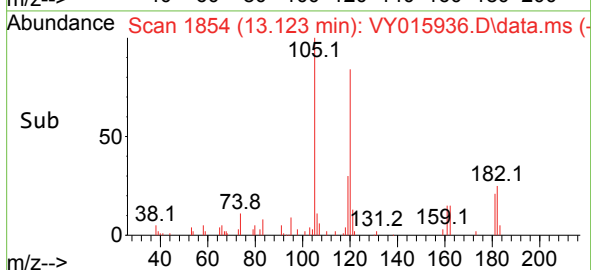
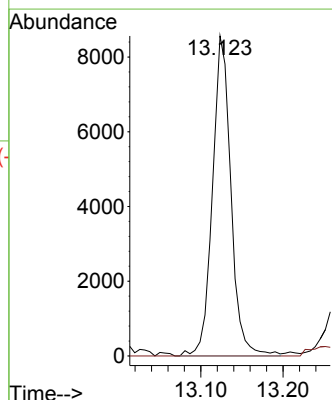
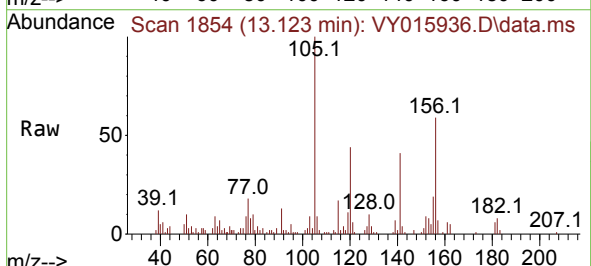
Acq: 11 Oct 2023 20:03

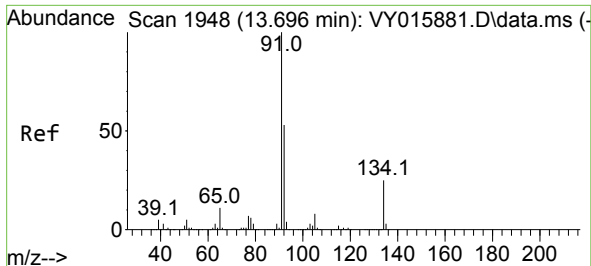
Tgt Ion:105 Resp: 13361

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.6#





#89

n-Butylbenzene

Concen: 1.251 ug/l

RT: 13.672 min Scan# 1944

Delta R.T. -0.024 min

Lab File: VY015936.D

Acq: 11 Oct 2023 20:03

Instrument :

MSVOA_Y

ClientSampleId :

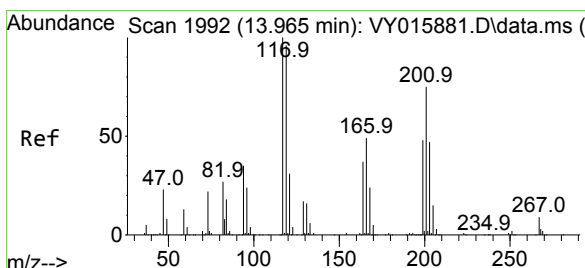
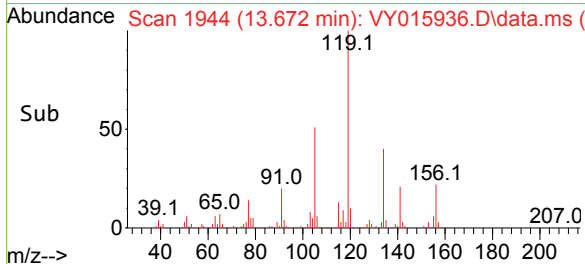
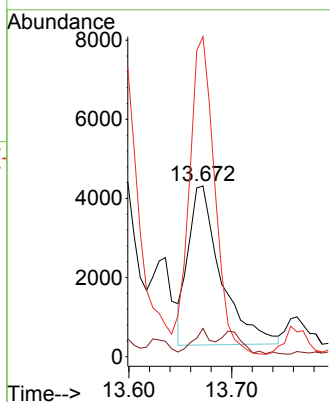
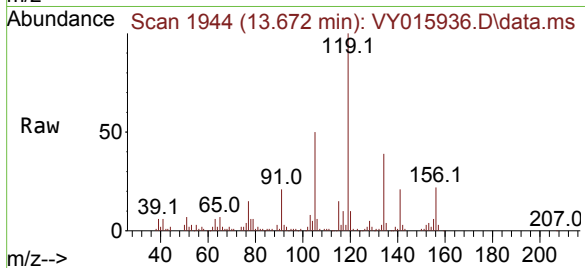
Tgt Ion: 91 Resp: 8893

Ion Ratio Lower Upper

91 100

92 8.9 25.4 76.0#

134 156.4 12.6 37.6#



#90

Hexachloroethane

Concen: 5.275 ug/l

RT: 13.977 min Scan# 1994

Delta R.T. 0.012 min

Lab File: VY015936.D

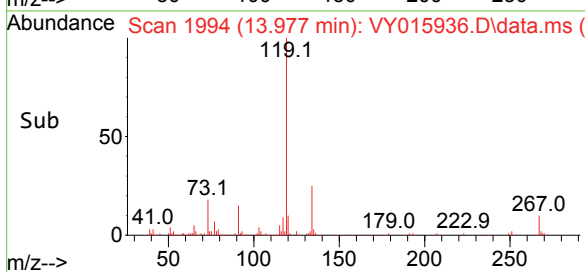
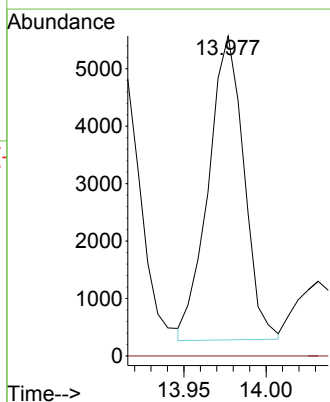
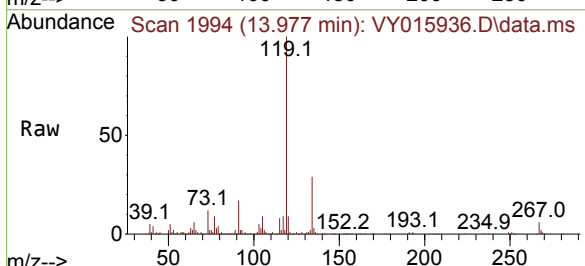
Acq: 11 Oct 2023 20:03

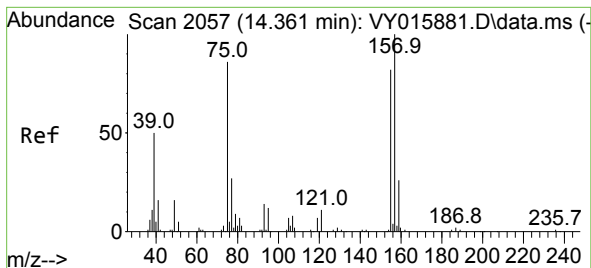
Tgt Ion: 117 Resp: 7951

Ion Ratio Lower Upper

117 100

201 0.0 41.6 124.8#

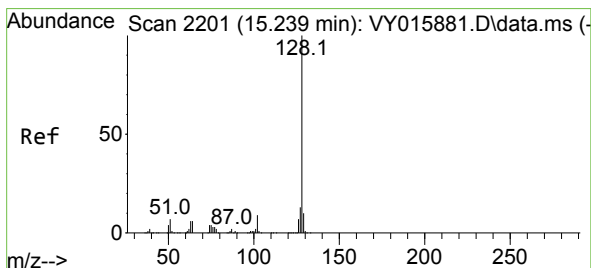
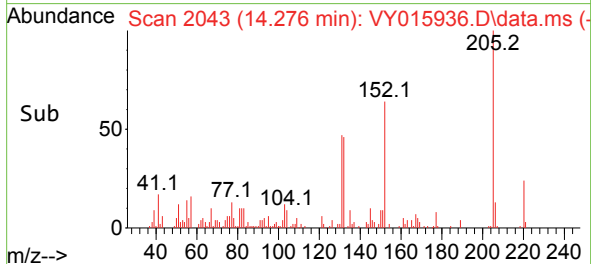
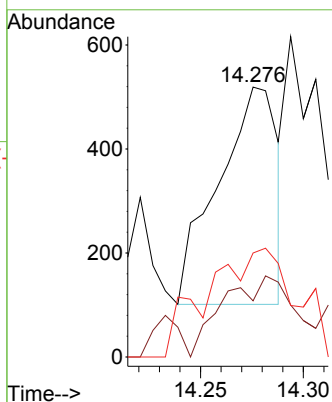
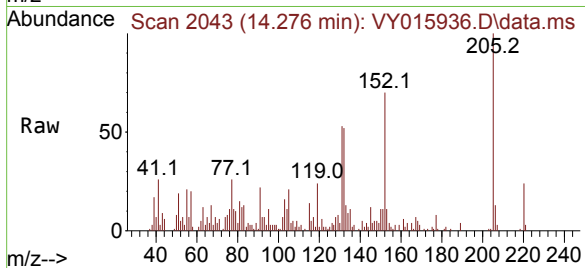




#92
1,2-Dibromo-3-Chloropropane
Concen: 2.289 ug/l
RT: 14.276 min Scan# 2057
Delta R.T. -0.085 min
Lab File: VY015936.D
Acq: 11 Oct 2023 20:03

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion: 75 Resp: 839
Ion Ratio Lower Upper
75 100
155 52.0 41.5 124.6
157 74.3 51.8 155.5



#95
Naphthalene
Concen: 18.300 ug/l
RT: 15.239 min Scan# 2201
Delta R.T. 0.000 min
Lab File: VY015936.D
Acq: 11 Oct 2023 20:03

Tgt Ion: 128 Resp: 100207
Ion Ratio Lower Upper
128 100
127 15.1 10.8 16.2
129 13.5 8.6 13.0#

