

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091523\
 Data File : VY015601.D
 Acq On : 16 Sep 2023 04:44
 Operator : SY/MD
 Sample : 04419-13
 Misc : 6.83g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 16 05:30:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y082923S.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 31 20:01:47 2023
 Response via : Initial Calibration

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

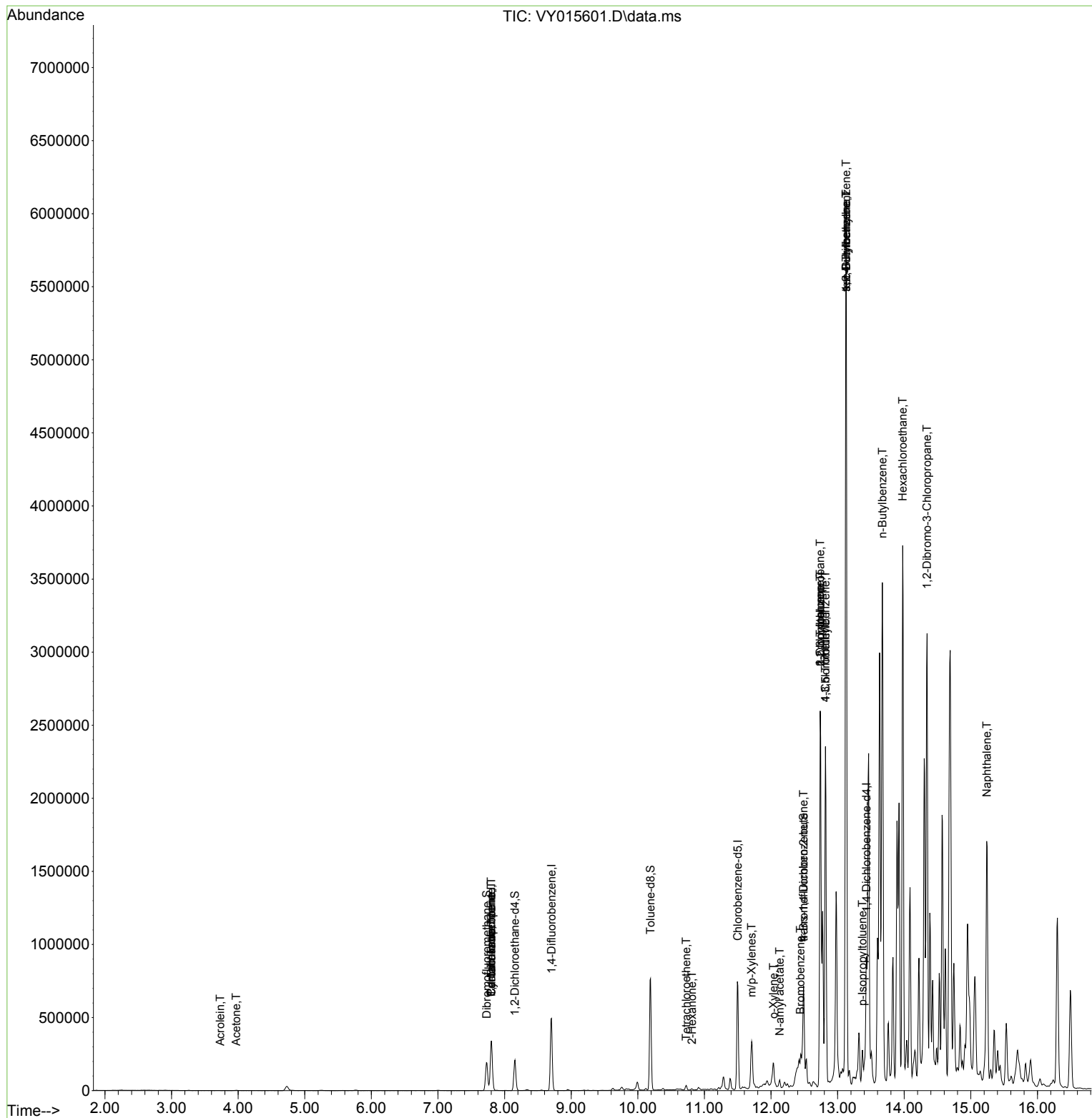
Internal Standards						
1) Pentafluorobenzene	7.801	168	265901	50.000	ug/l	0.02
34) 1,4-Difluorobenzene	8.703	114	436844	50.000	ug/l	0.02
63) Chlorobenzene-d5	11.502	117	403499	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.434	152	189280	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.155	65	162987	57.180	ug/l	0.02
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.360%			
35) Dibromofluoromethane	7.734	113	137922	54.815	ug/l	0.02
Spiked Amount 50.000	Range 54 - 147		Recovery = 109.640%			
50) Toluene-d8	10.191	98	512110	56.203	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 112.400%			
62) 4-Bromofluorobenzene	12.489	95	187394	55.399	ug/l	0.01
Spiked Amount 50.000	Range 30 - 143		Recovery = 110.800%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.991	59	414	Below Cal	#	89
13) Acrolein	3.729	56	37	11.690	ug/l	86
16) Acetone	3.973	43	3456	2.905	ug/l	96
20) Methylene Chloride	4.729	84	22568	Below Cal		91
31) Cyclohexane	7.801	56	5315	1.050	ug/l #	1
36) 1,1-Dichloropropene	7.801	75	19466	4.406	ug/l #	50
38) Carbon Tetrachloride	7.801	117	25732	5.639	ug/l #	16
59) 2-Hexanone	10.813	43	3744	1.457	ug/l #	33
64) Tetrachloroethene	10.728	164	5098	1.392	ug/l	92
68) m/p-Xylenes	11.709	106	91852	15.178	ug/l	96
69) o-Xylene	12.038	106	40640	7.027	ug/l	95
74) N-amyl acetate	12.130	43	12101	2.533	ug/l #	67
76) 1,2,3-Trichloropropane	12.739	75	13793	5.495	ug/l #	100
77) Bromobenzene	12.441	156	148967	44.239	ug/l #	1
78) n-propylbenzene	12.739	91	207985	12.090	ug/l #	1
79) 2-Chlorotoluene	12.739	91	207985	21.555	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.819	105	1116741	93.907	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.489	75	98325	86.410	ug/l #	11
82) 4-Chlorotoluene	12.819	91	119638	11.930	ug/l #	41
83) tert-Butylbenzene	13.130	119	394621	37.887	ug/l #	65
84) 1,2,4-Trimethylbenzene	13.130	105	3187156	269.930	ug/l	97
85) sec-Butylbenzene	13.130	105	3187156	205.151	ug/l #	56
86) p-Isopropyltoluene	13.373	119	51969	3.991	ug/l	99
89) n-Butylbenzene	13.672	91	342660	27.960	ug/l #	1
90) Hexachloroethane	13.977	117	166831	71.640	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.343	75	11267	16.782	ug/l #	3
95) Naphthalene	15.239	128	1336806	141.645	ug/l	99

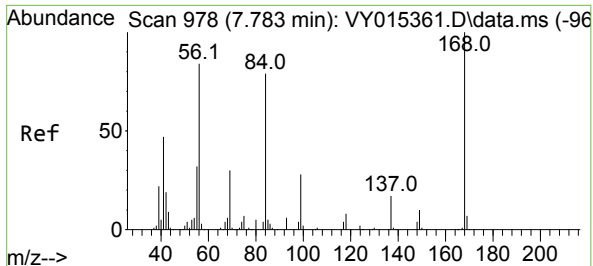
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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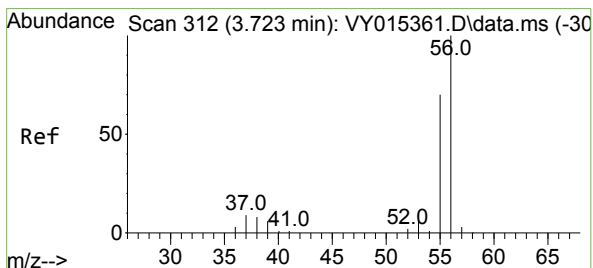
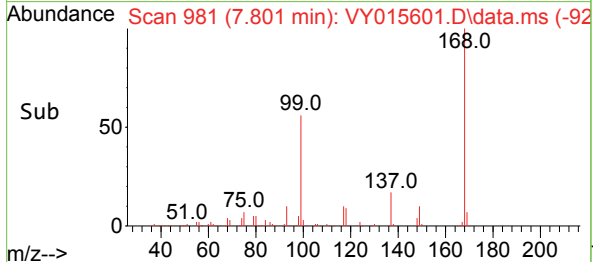
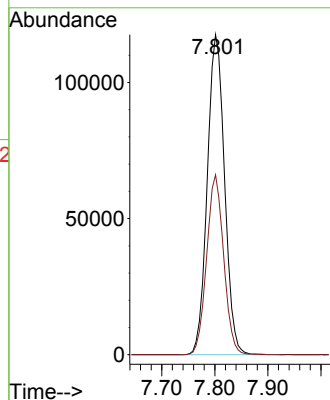
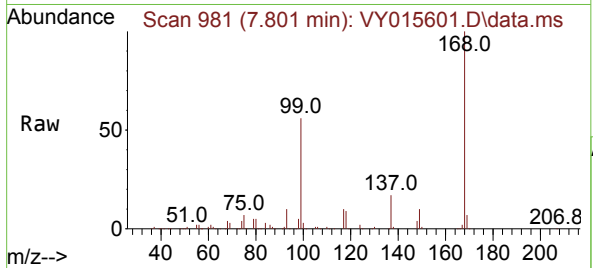




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY015601.D
Acq: 16 Sep 2023 04:44

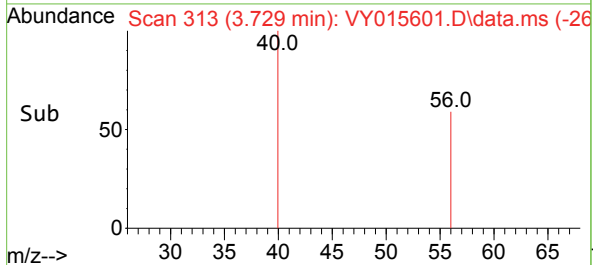
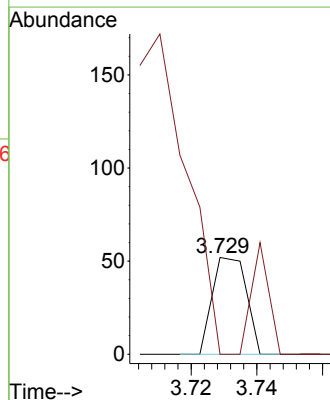
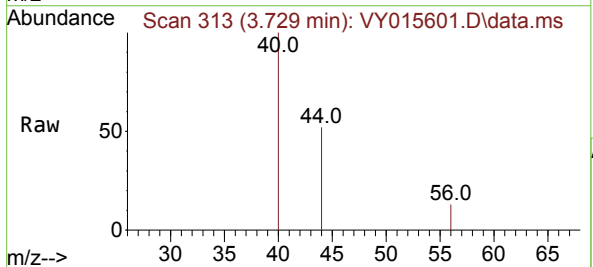
Instrument :
MSVOA_Y
ClientSampleId :

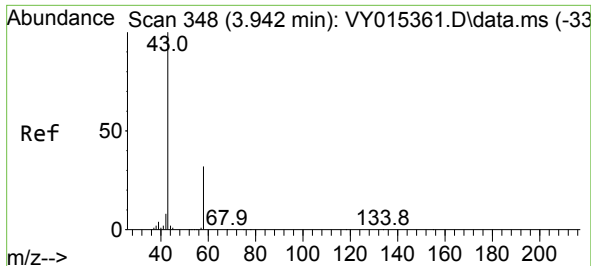
Tgt Ion:168 Resp: 265901
Ion Ratio Lower Upper
168 100
99 56.2 43.4 65.0



#13
Acrolein
Concen: 11.690 ug/l
RT: 3.729 min Scan# 313
Delta R.T. 0.006 min
Lab File: VY015601.D
Acq: 16 Sep 2023 04:44

Tgt Ion: 56 Resp: 37
Ion Ratio Lower Upper
56 100
55 59.5 57.0 85.4





#16

Acetone

Concen: 2.905 ug/l

RT: 3.973 min Scan# 31

Delta R.T. 0.031 min

Lab File: VY015601.D

Acq: 16 Sep 2023 04:44

Instrument :

MSVOA_Y

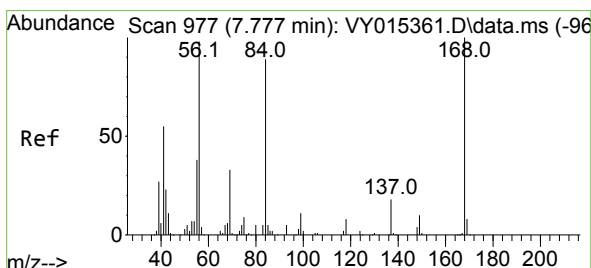
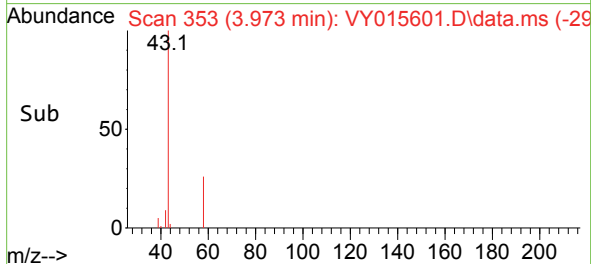
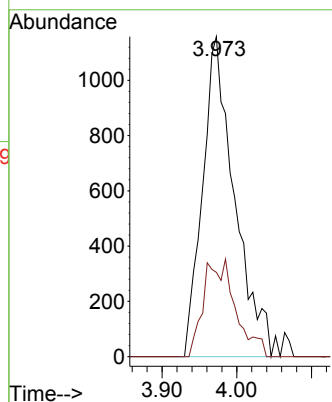
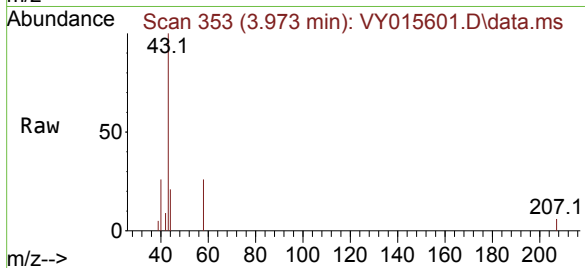
ClientSampleId :

Tgt Ion: 43 Resp: 3456

Ion Ratio Lower Upper

43 100

58 26.3 22.7 34.1



#31

Cyclohexane

Concen: 1.050 ug/l

RT: 7.801 min Scan# 981

Delta R.T. 0.018 min

Lab File: VY015601.D

Acq: 16 Sep 2023 04:44

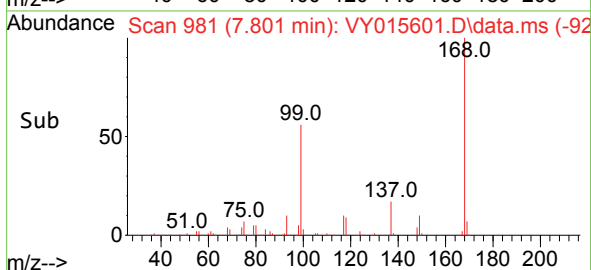
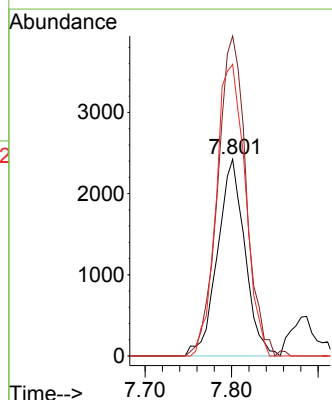
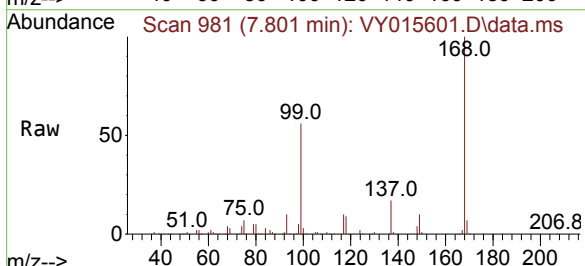
Tgt Ion: 56 Resp: 5315

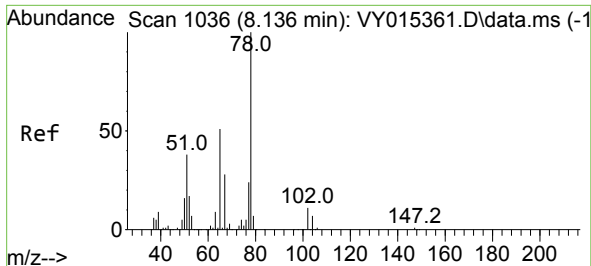
Ion Ratio Lower Upper

56 100

69 162.7 27.8 41.6#

84 148.3 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 57.180 ug/l

RT: 8.155 min Scan# 110

Delta R.T. 0.018 min

Lab File: VY015601.D

Acq: 16 Sep 2023 04:44

Instrument :

MSVOA_Y

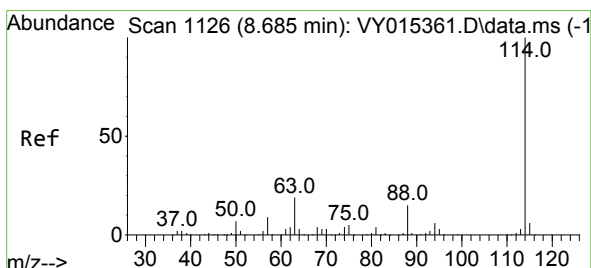
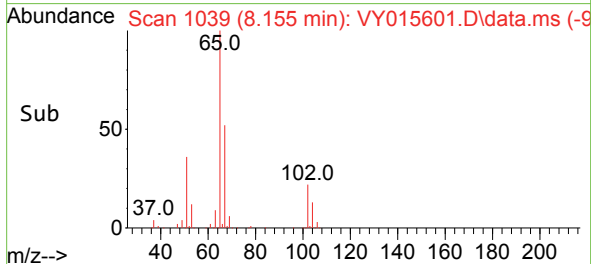
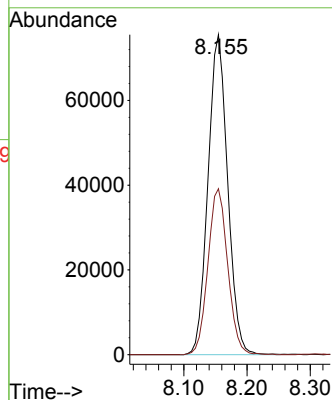
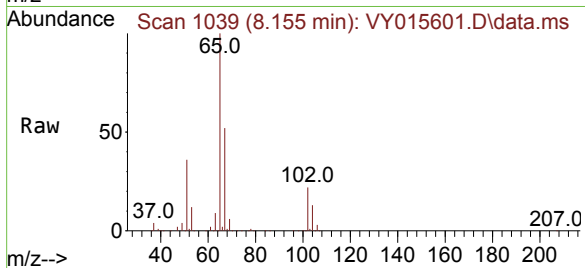
ClientSampleId :

Tgt Ion: 65 Resp: 162987

Ion Ratio Lower Upper

65 100

67 52.2 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.703 min Scan# 1129

Delta R.T. 0.018 min

Lab File: VY015601.D

Acq: 16 Sep 2023 04:44

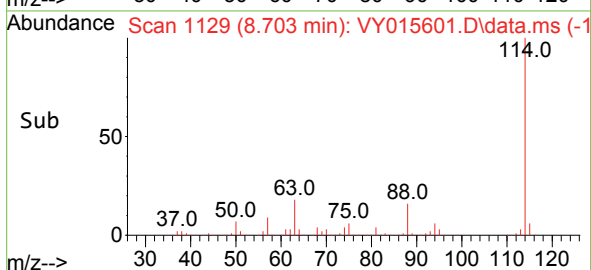
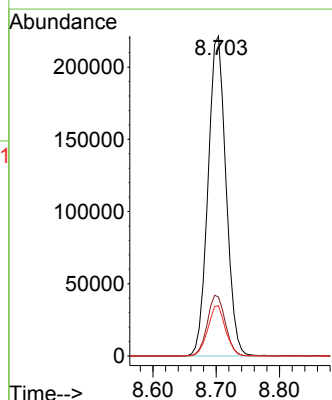
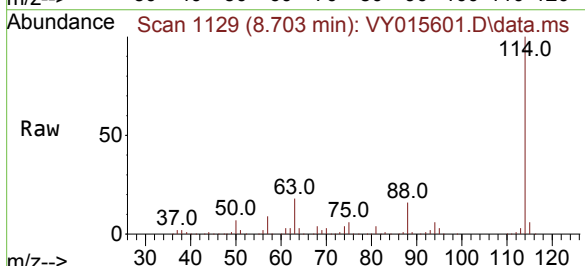
Tgt Ion: 114 Resp: 436844

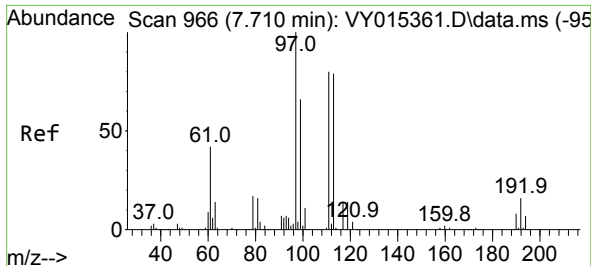
Ion Ratio Lower Upper

114 100

63 18.4 0.0 42.4

88 15.7 0.0 30.6

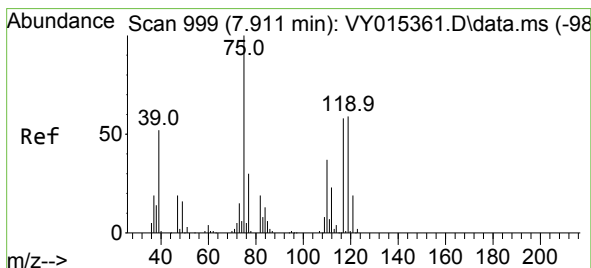
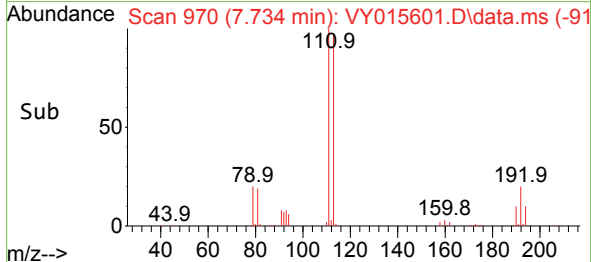
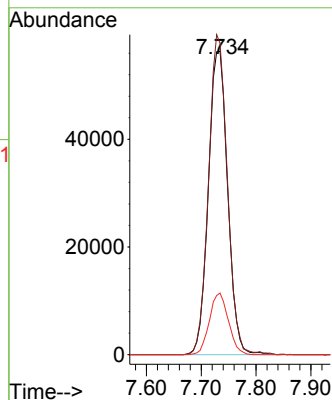
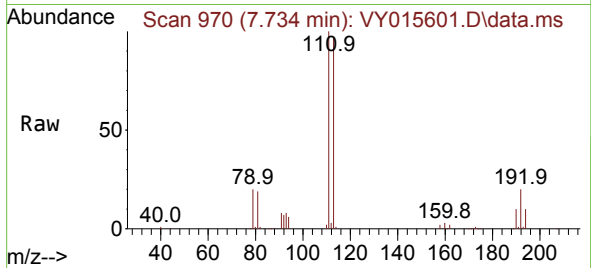




#35
Dibromofluoromethane
Concen: 54.815 ug/l
RT: 7.734 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY015601.D
Acq: 16 Sep 2023 04:44

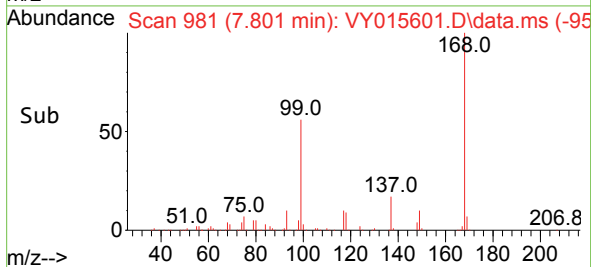
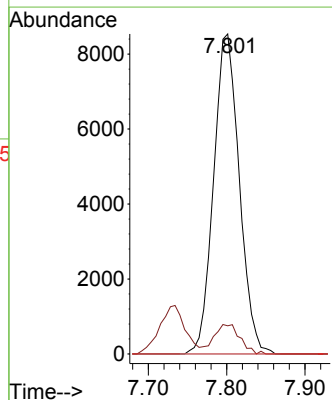
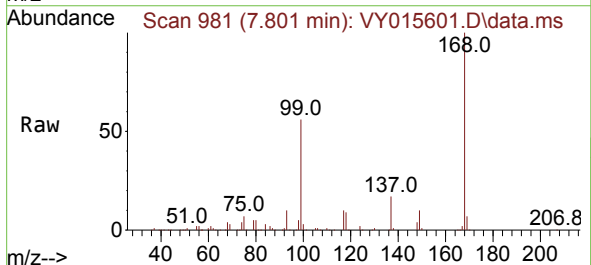
Instrument :
MSVOA_Y
ClientSampleId :

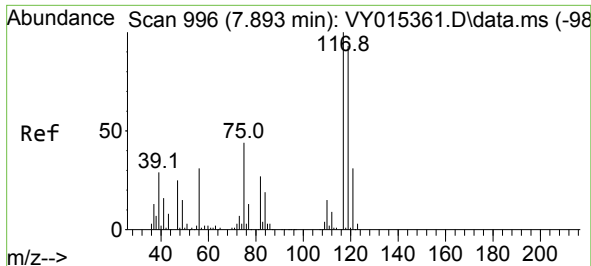
Tgt Ion:113 Resp: 137922
Ion Ratio Lower Upper
113 100
111 102.6 81.3 121.9
192 19.9 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.406 ug/l
RT: 7.801 min Scan# 981
Delta R.T. -0.110 min
Lab File: VY015601.D
Acq: 16 Sep 2023 04:44

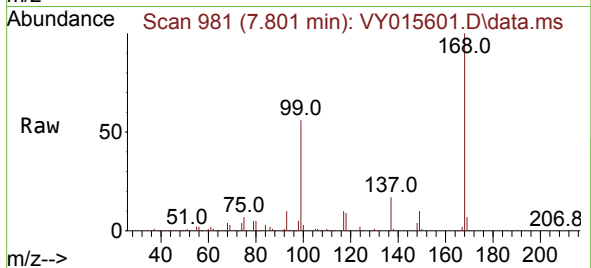
Tgt Ion: 75 Resp: 19466
Ion Ratio Lower Upper
75 100
110 9.5 17.8 53.5#
77 0.0 24.4 36.6#



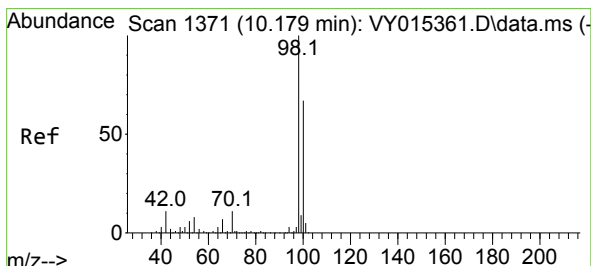
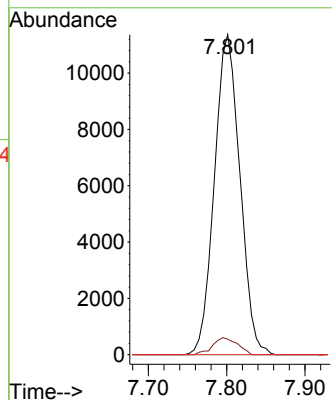
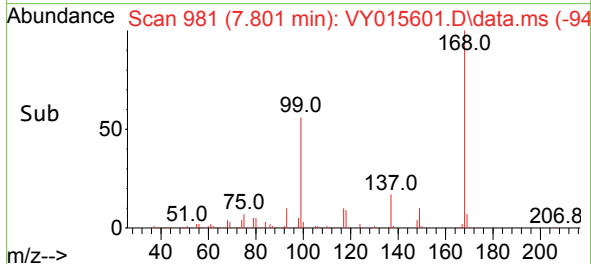


#38
Carbon Tetrachloride
Concen: 5.639 ug/l
RT: 7.801 min Scan# 91
Delta R.T. -0.091 min
Lab File: VY015601.D
Acq: 16 Sep 2023 04:44

Instrument :
MSVOA_Y
ClientSampleId :

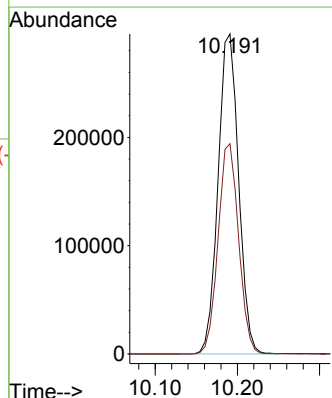
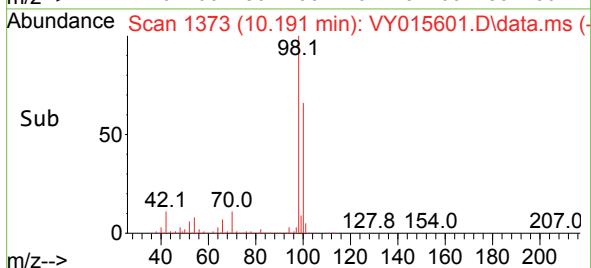
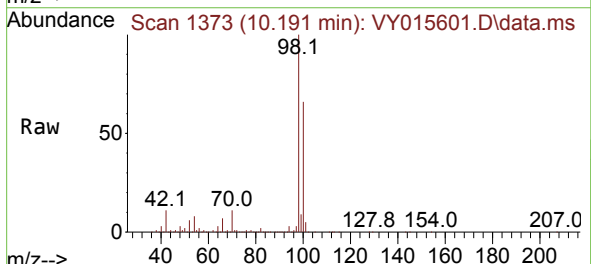


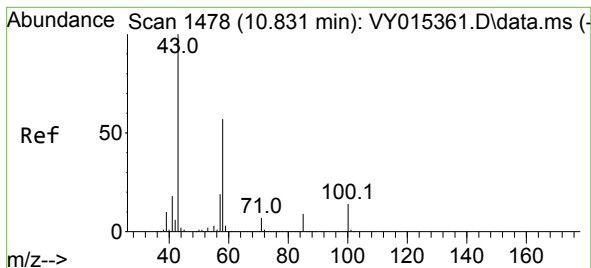
Tgt Ion:117 Resp: 25732
Ion Ratio Lower Upper
117 100
119 4.9 76.4 114.6#
121 0.0 25.8 38.6#



#50
Toluene-d8
Concen: 56.203 ug/l
RT: 10.191 min Scan# 1373
Delta R.T. 0.012 min
Lab File: VY015601.D
Acq: 16 Sep 2023 04:44

Tgt Ion: 98 Resp: 512110
Ion Ratio Lower Upper
98 100
100 65.7 50.1 75.1

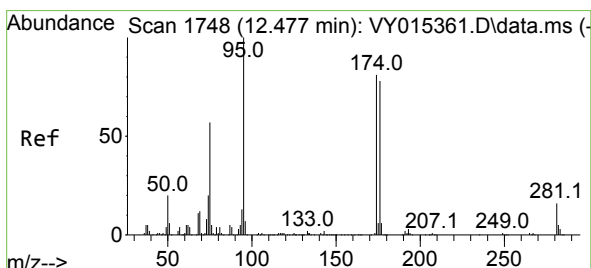
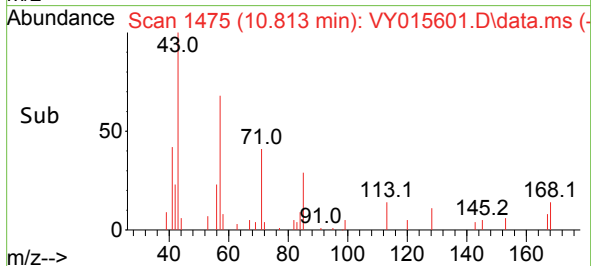
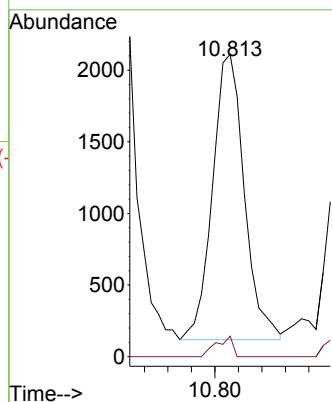
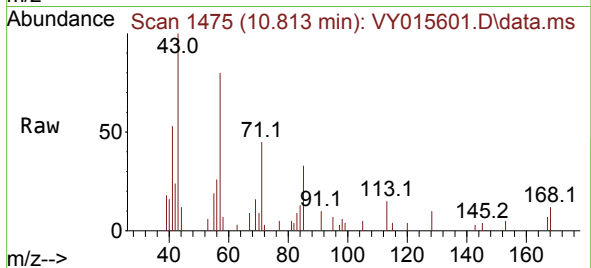




#59
2-Hexanone
Concen: 1.457 ug/l
RT: 10.813 min Scan# 1478
Delta R.T. -0.018 min
Lab File: VY015601.D
Acq: 16 Sep 2023 04:44

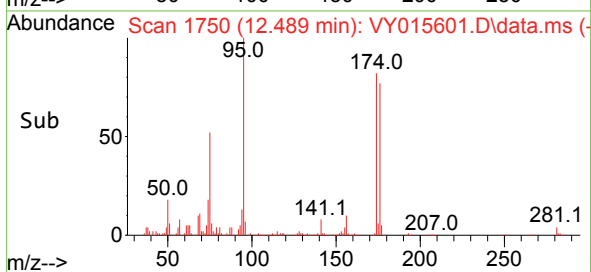
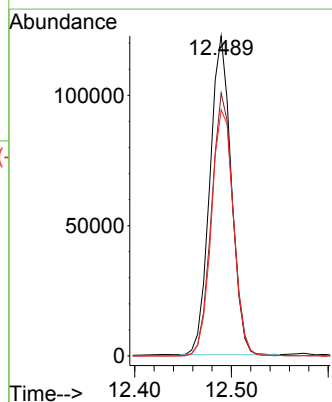
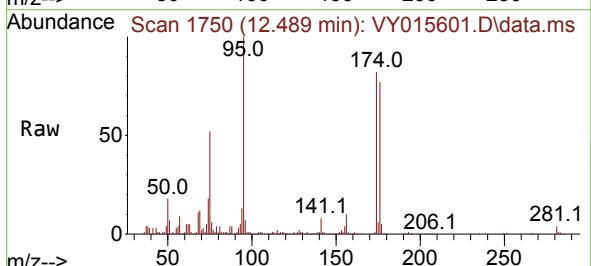
Instrument :
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ClientSampleId :

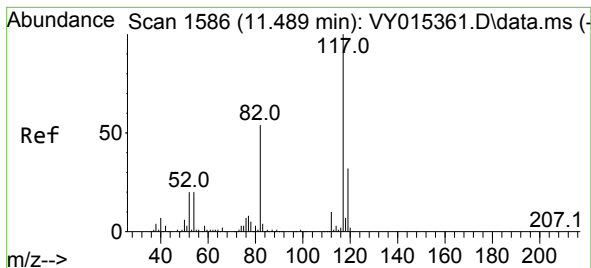
Tgt Ion: 43 Resp: 3744
Ion Ratio Lower Upper
43 100
58 3.7 25.1 75.3#



#62
4-Bromofluorobenzene
Concen: 55.399 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.012 min
Lab File: VY015601.D
Acq: 16 Sep 2023 04:44

Tgt Ion: 95 Resp: 187394
Ion Ratio Lower Upper
95 100
174 83.6 0.0 178.2
176 80.3 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.502 min Scan# 11

Delta R.T. 0.012 min

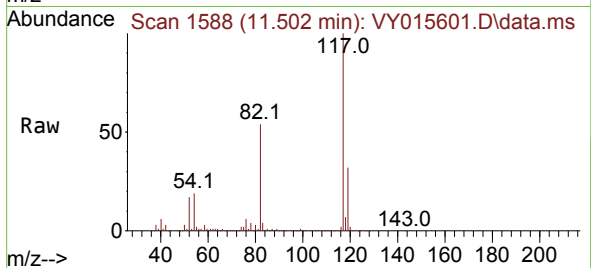
Lab File: VY015601.D

Acq: 16 Sep 2023 04:44

Instrument :

MSVOA_Y

ClientSampleId :



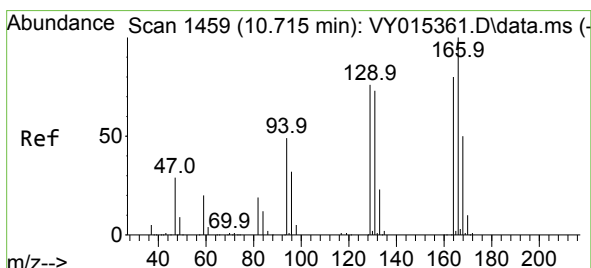
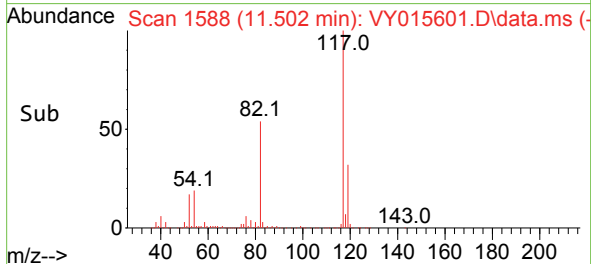
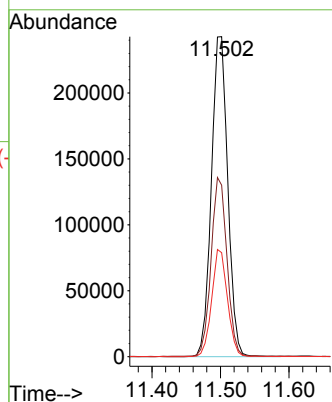
Tgt Ion:117 Resp: 403499

Ion Ratio Lower Upper

117 100

82 53.5 43.4 65.0

119 32.5 26.3 39.5



#64

Tetrachloroethene

Concen: 1.392 ug/l

RT: 10.728 min Scan# 1461

Delta R.T. 0.012 min

Lab File: VY015601.D

Acq: 16 Sep 2023 04:44

Tgt Ion:164 Resp: 5098

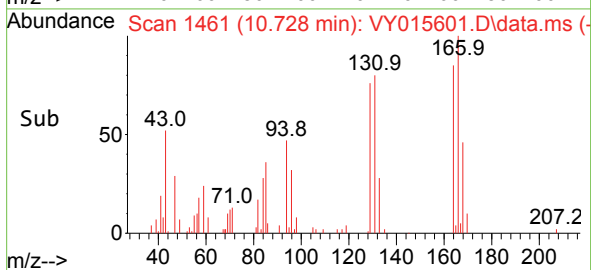
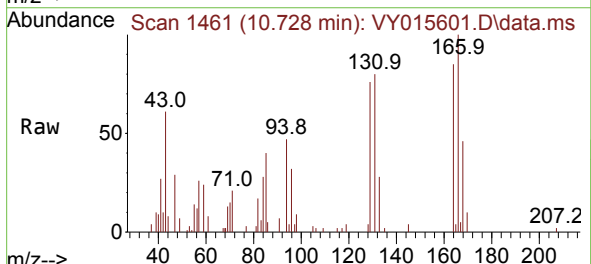
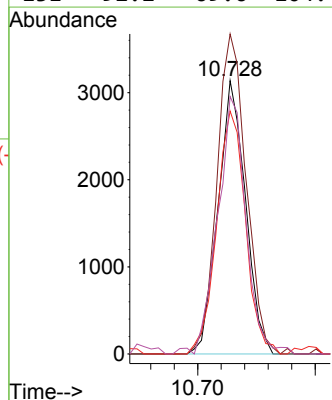
Ion Ratio Lower Upper

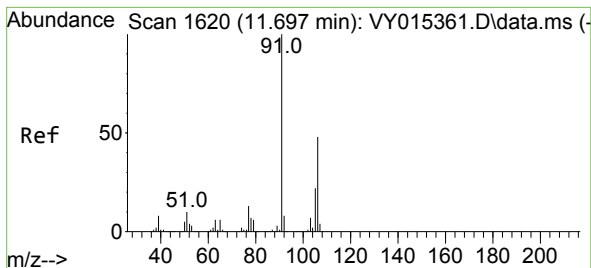
164 100

166 117.1 103.0 154.6

129 88.9 77.2 115.8

131 92.2 69.6 104.4

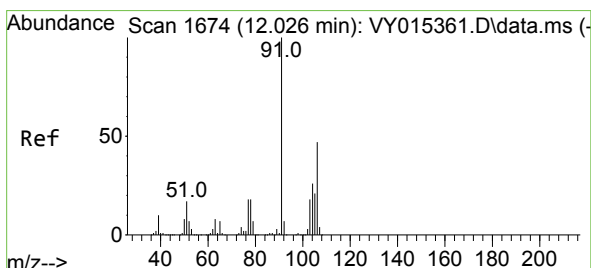
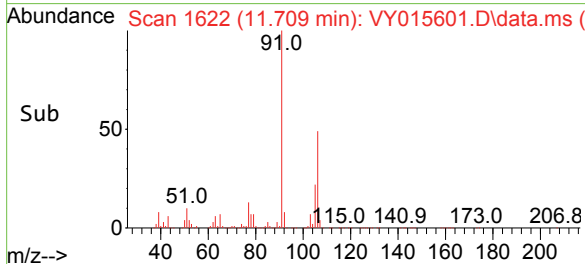
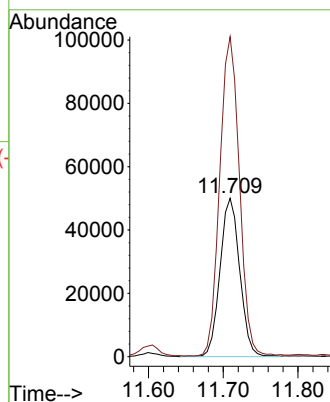
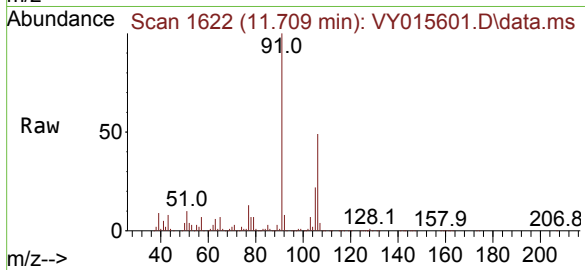




#68
m/p-Xylenes
Concen: 15.178 ug/l
RT: 11.709 min Scan# 1622
Delta R.T. 0.006 min
Lab File: VY015601.D
Acq: 16 Sep 2023 04:44

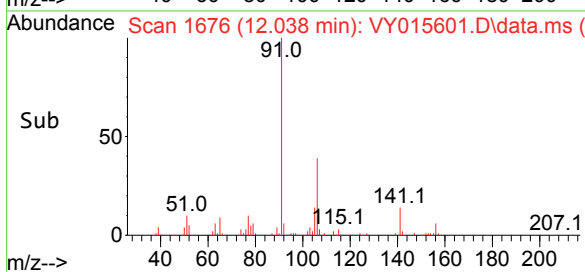
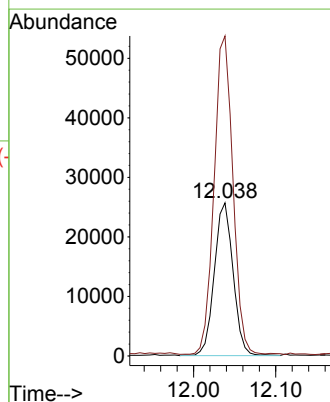
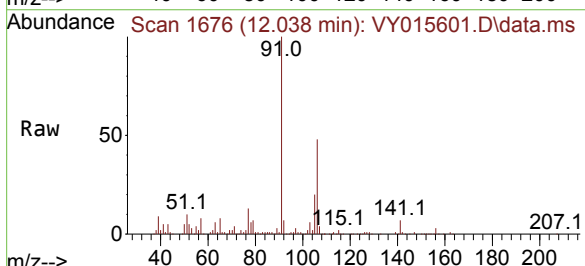
Instrument :
MSVOA_Y
ClientSampleId :

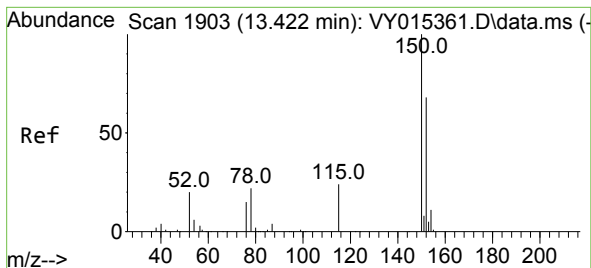
Tgt Ion:106 Resp: 91852
Ion Ratio Lower Upper
106 100
91 201.3 166.1 249.1



#69
o-Xylene
Concen: 7.027 ug/l
RT: 12.038 min Scan# 1676
Delta R.T. 0.012 min
Lab File: VY015601.D
Acq: 16 Sep 2023 04:44

Tgt Ion:106 Resp: 40640
Ion Ratio Lower Upper
106 100
91 208.9 108.1 324.3

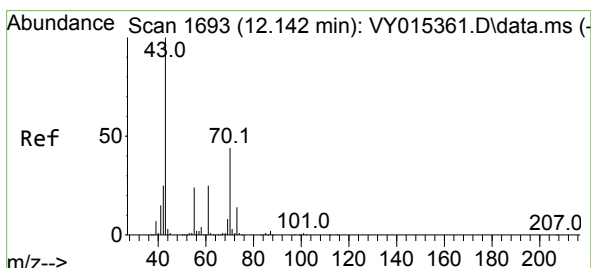
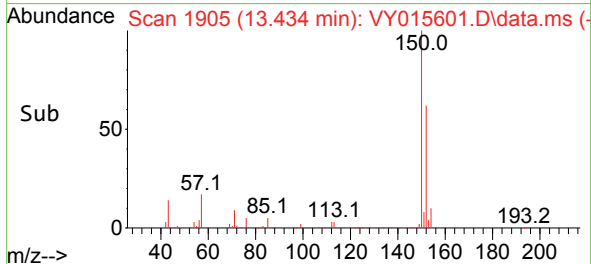
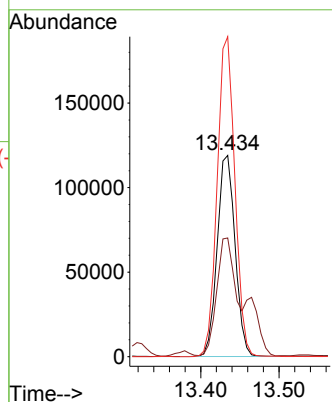
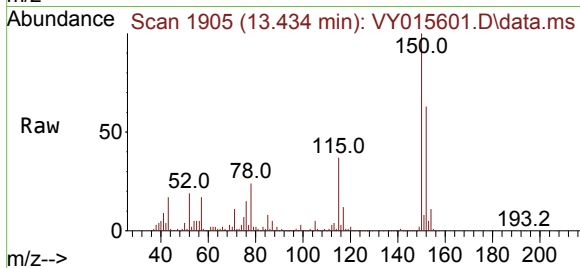




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.434 min Scan# 1905
 Delta R.T. 0.012 min
 Lab File: VY015601.D
 Acq: 16 Sep 2023 04:44

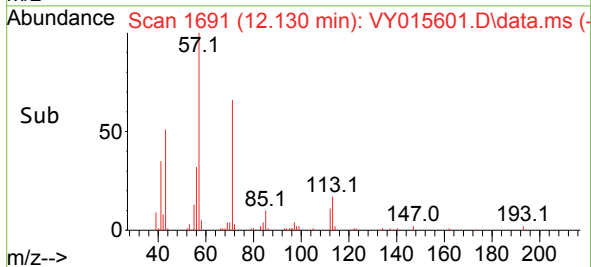
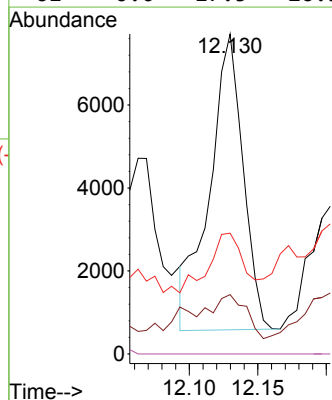
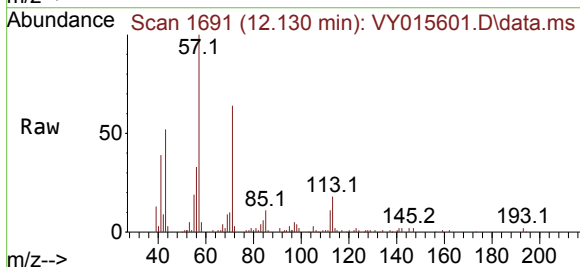
Instrument :
 MSVOA_Y
 ClientSampleId :

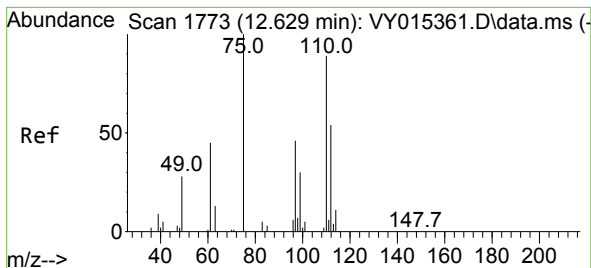
Tgt Ion:152 Resp: 189280
 Ion Ratio Lower Upper
 152 100
 115 62.4 28.8 86.5
 150 157.0 0.0 348.8



#74
 N-ethyl acetate
 Concen: 2.533 ug/l
 RT: 12.130 min Scan# 1691
 Delta R.T. -0.012 min
 Lab File: VY015601.D
 Acq: 16 Sep 2023 04:44

Tgt Ion: 43 Resp: 12101
 Ion Ratio Lower Upper
 43 100
 70 11.7 29.7 44.5#
 55 20.1 18.3 27.5
 61 0.0 17.5 26.3#





#76

1,2,3-Trichloropropane

Concen: 5.495 ug/l

RT: 12.739 min Scan# 1

Delta R.T. 0.110 min

Lab File: VY015601.D

Acq: 16 Sep 2023 04:44

Instrument :

MSVOA_Y

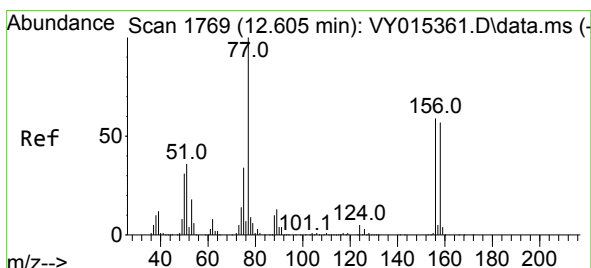
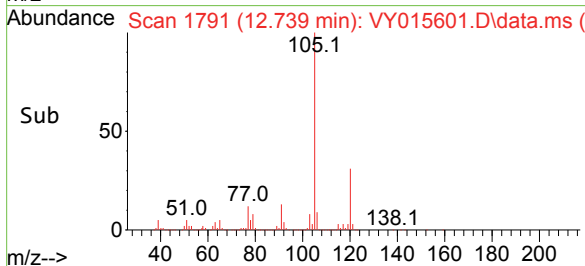
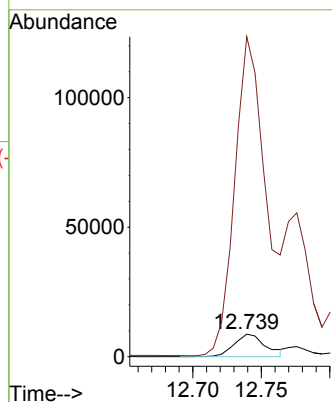
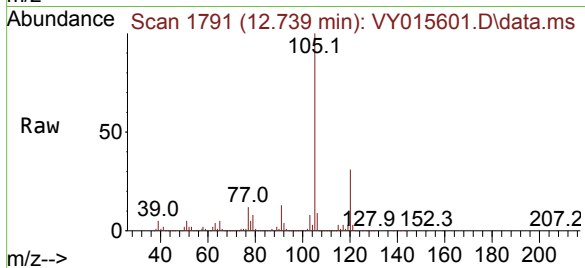
ClientSampleId :

Tgt Ion: 75 Resp: 13793

Ion Ratio Lower Upper

75 100

77 1409.4 0.0 0.0#



#77

Bromobenzene

Concen: 44.239 ug/l

RT: 12.441 min Scan# 1742

Delta R.T. -0.164 min

Lab File: VY015601.D

Acq: 16 Sep 2023 04:44

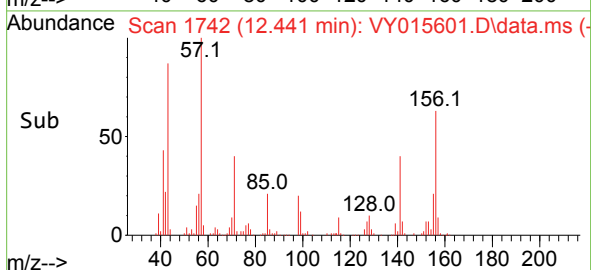
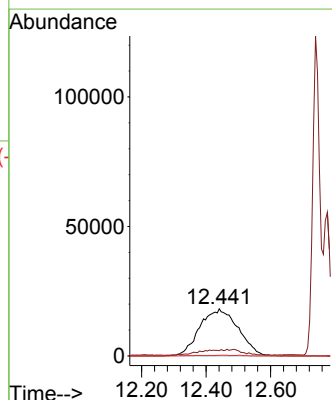
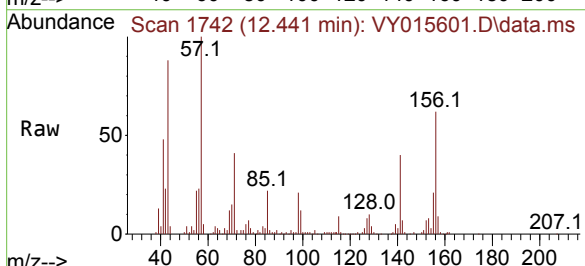
Tgt Ion: 156 Resp: 148967

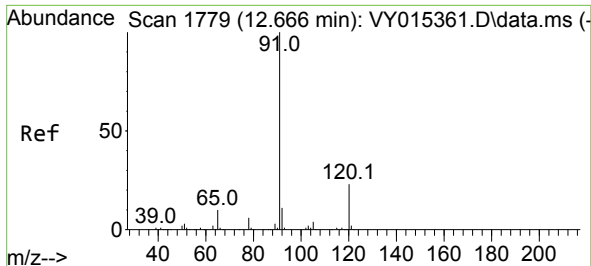
Ion Ratio Lower Upper

156 100

77 0.0 92.8 278.6#

158 0.5 48.4 145.3#

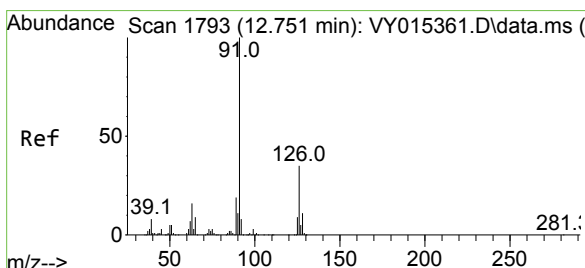
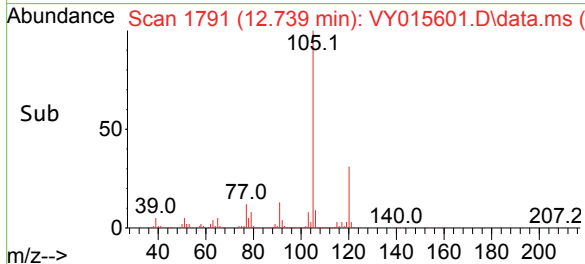
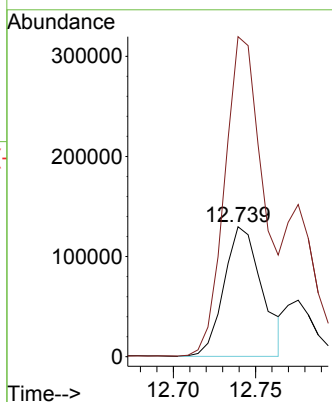
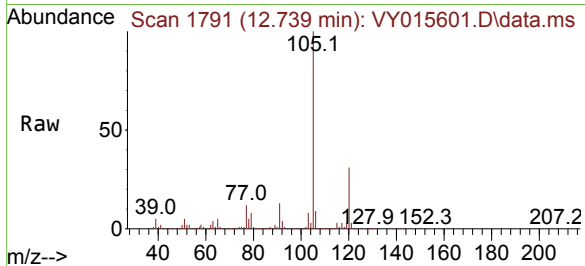




#78
n-propylbenzene
Concen: 12.090 ug/l
RT: 12.739 min Scan# 1791
Delta R.T. 0.073 min
Lab File: VY015601.D
Acq: 16 Sep 2023 04:44

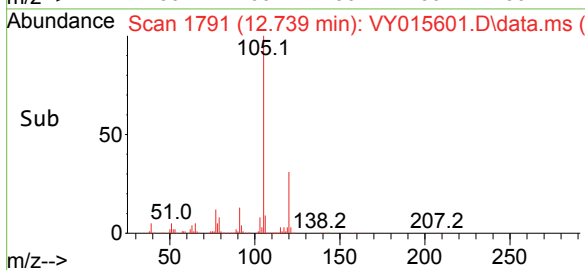
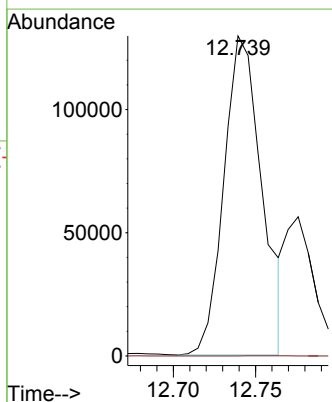
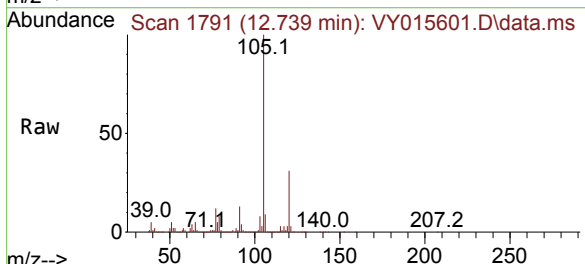
Instrument :
MSVOA_Y
ClientSampleId :

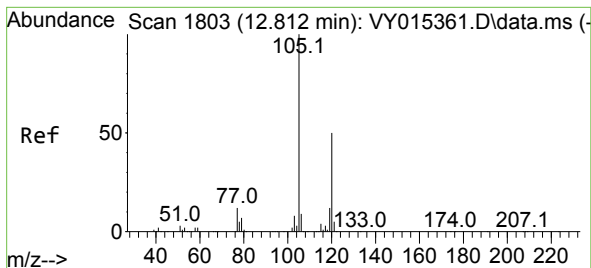
Tgt Ion: 91 Resp: 207985
Ion Ratio Lower Upper
91 100
120 249.6 11.5 34.4#



#79
2-Chlorotoluene
Concen: 21.555 ug/l
RT: 12.739 min Scan# 1791
Delta R.T. -0.012 min
Lab File: VY015601.D
Acq: 16 Sep 2023 04:44

Tgt Ion: 91 Resp: 207985
Ion Ratio Lower Upper
91 100
126 0.1 17.3 51.7#





#80

1,3,5-Trimethylbenzene

Concen: 93.907 ug/l

RT: 12.819 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY015601.D

Acq: 16 Sep 2023 04:44

Instrument :

MSVOA_Y

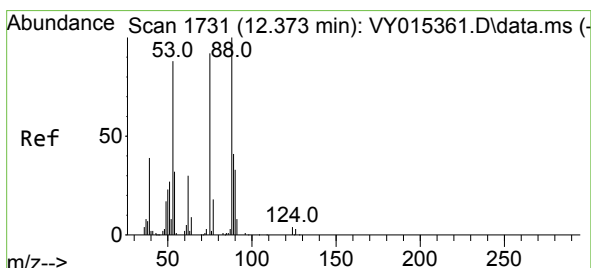
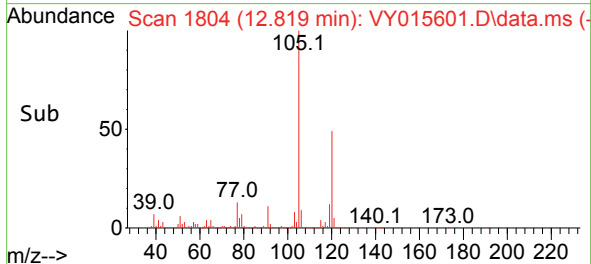
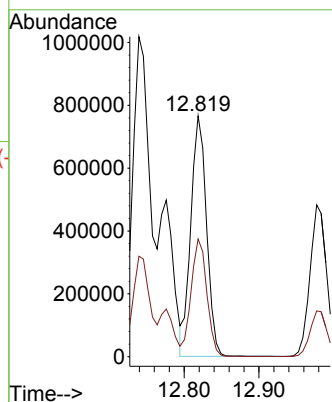
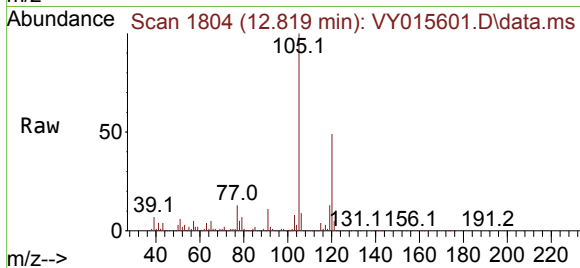
ClientSampleId :

Tgt Ion:105 Resp: 1116741

Ion Ratio Lower Upper

105 100

120 48.9 23.9 71.7



#81

trans-1,4-Dichloro-2-butene

Concen: 86.410 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. 0.110 min

Lab File: VY015601.D

Acq: 16 Sep 2023 04:44

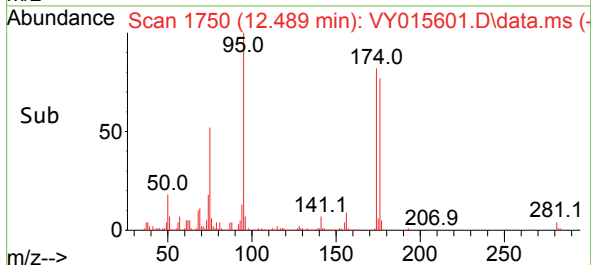
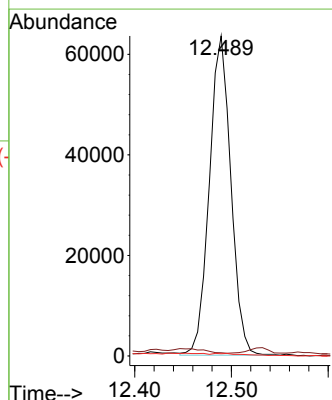
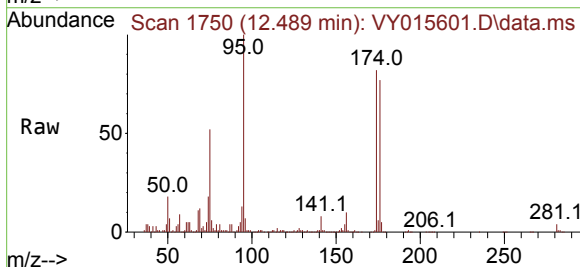
Tgt Ion: 75 Resp: 98325

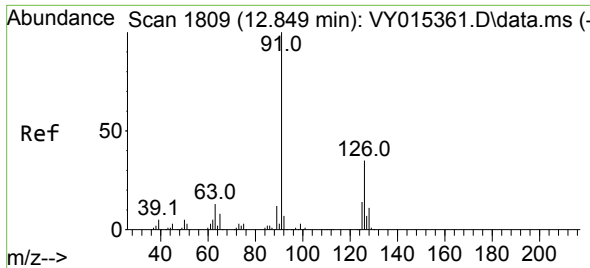
Ion Ratio Lower Upper

75 100

53 0.0 77.8 116.8#

89 1.3 37.4 56.0#

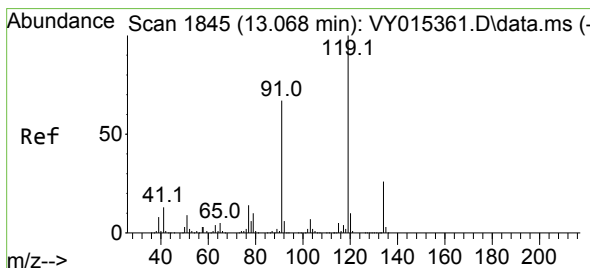
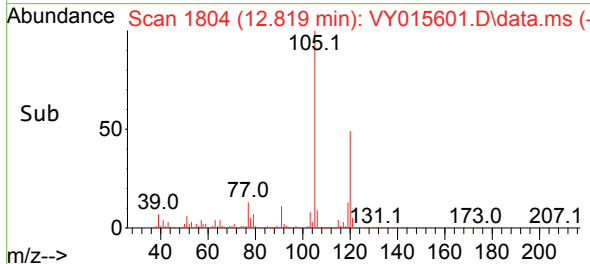
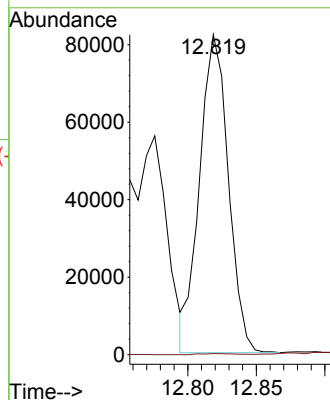
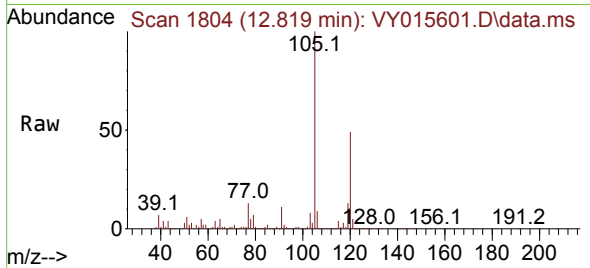




#82
4-Chlorotoluene
Concen: 11.930 ug/l
RT: 12.819 min Scan# 119638
Delta R.T. -0.030 min
Lab File: VY015601.D
Acq: 16 Sep 2023 04:44

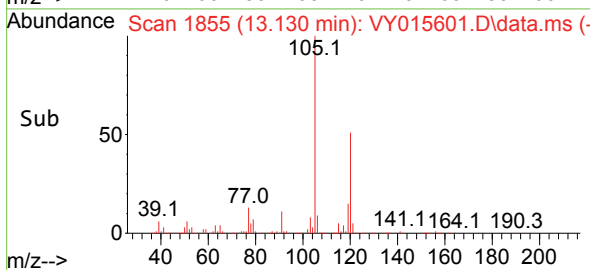
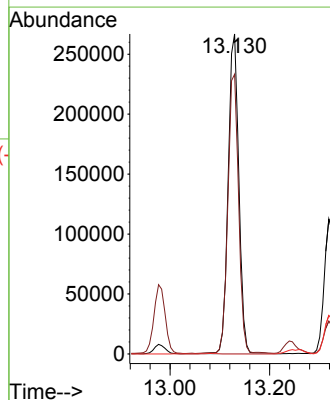
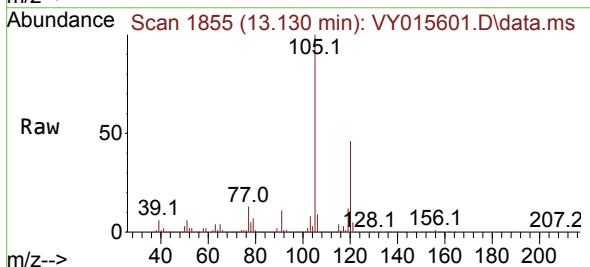
Instrument :
MSVOA_Y
ClientSampleId :

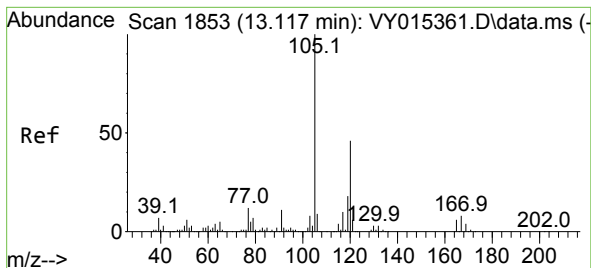
Tgt Ion: 91 Resp: 119638
Ion Ratio Lower Upper
91 100
126 0.4 17.2 51.6#



#83
tert-Butylbenzene
Concen: 37.887 ug/l
RT: 13.130 min Scan# 1855
Delta R.T. 0.055 min
Lab File: VY015601.D
Acq: 16 Sep 2023 04:44

Tgt Ion: 119 Resp: 394621
Ion Ratio Lower Upper
119 100
91 88.0 32.9 98.6
134 0.0 13.0 38.9#





#84

1,2,4-Trimethylbenzene

Concen: 269.930 ug/l

RT: 13.130 min Scan# 1855

Delta R.T. 0.012 min

Lab File: VY015601.D

Acq: 16 Sep 2023 04:44

Instrument :

MSVOA_Y

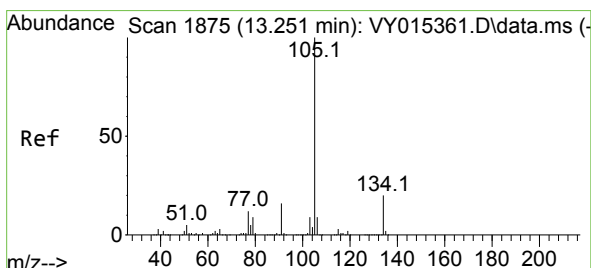
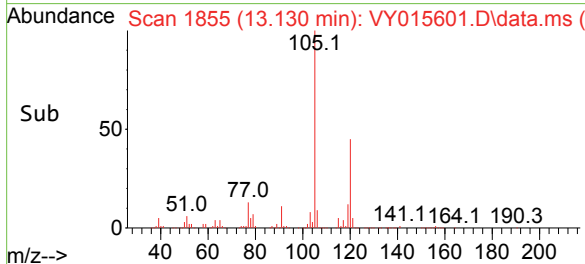
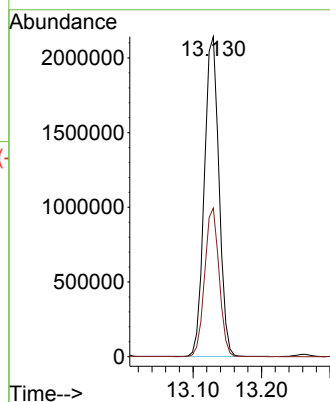
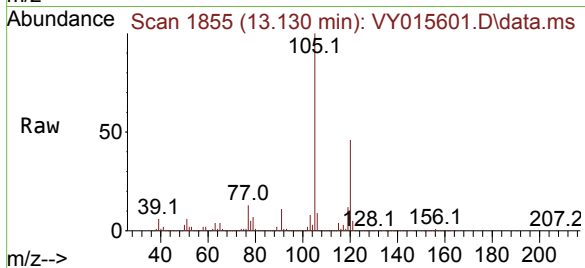
ClientSampleId :

Tgt Ion:105 Resp: 3187156

Ion Ratio Lower Upper

105 100

120 46.0 22.2 66.6



#85

sec-Butylbenzene

Concen: 205.151 ug/l

RT: 13.130 min Scan# 1855

Delta R.T. -0.122 min

Lab File: VY015601.D

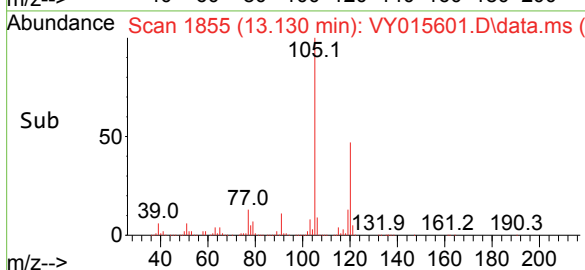
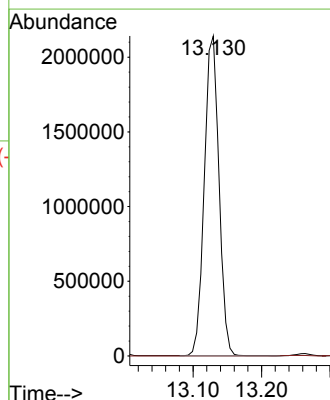
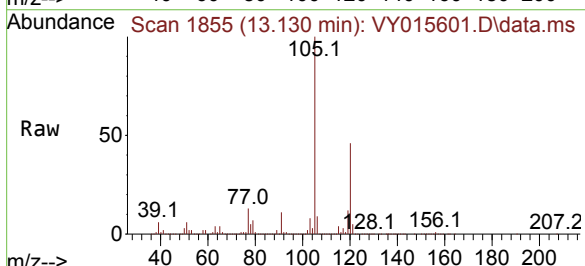
Acq: 16 Sep 2023 04:44

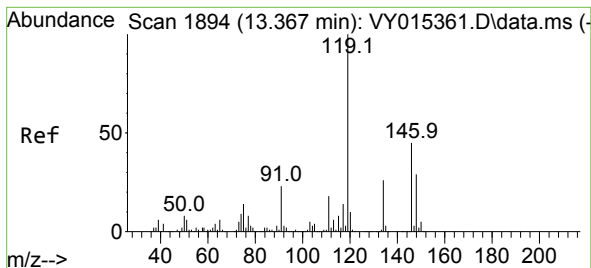
Tgt Ion:105 Resp: 3187156

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.6#





#86

p-Isopropyltoluene

Concen: 3.991 ug/l

RT: 13.373 min Scan# 119

Delta R.T. 0.006 min

Lab File: VY015601.D

Acq: 16 Sep 2023 04:44

Instrument :

MSVOA_Y

ClientSampleId :

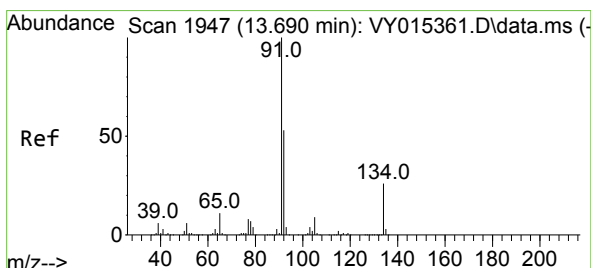
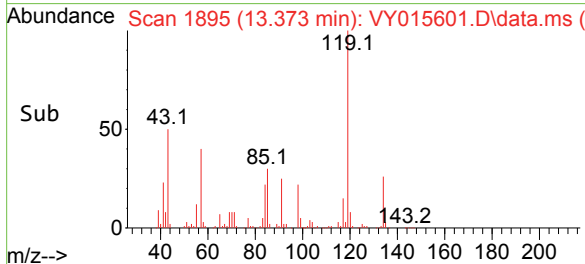
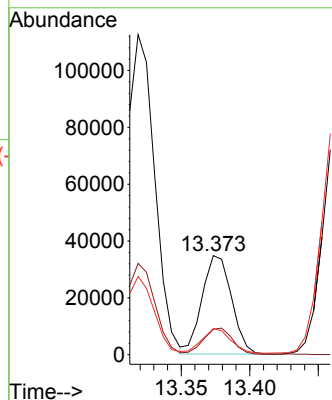
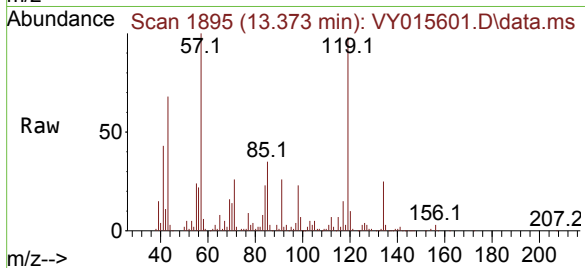
Tgt Ion:119 Resp: 51969

Ion Ratio Lower Upper

119 100

134 26.2 13.3 39.8

91 24.2 12.4 37.4



#89

n-Butylbenzene

Concen: 27.960 ug/l

RT: 13.672 min Scan# 1944

Delta R.T. -0.024 min

Lab File: VY015601.D

Acq: 16 Sep 2023 04:44

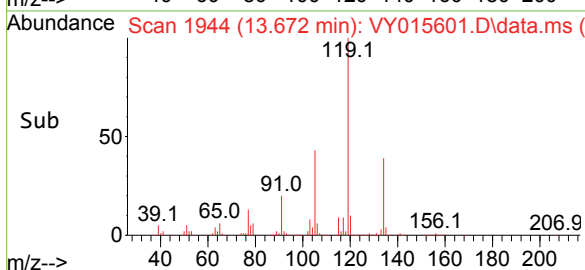
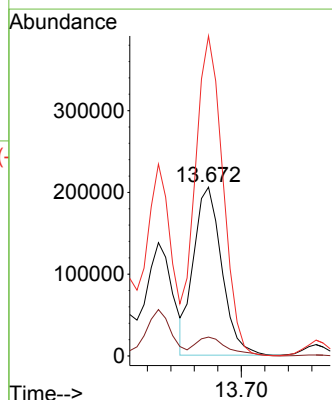
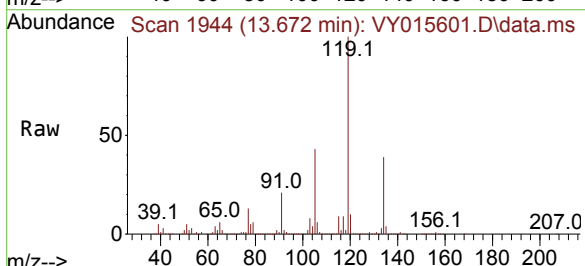
Tgt Ion: 91 Resp: 342660

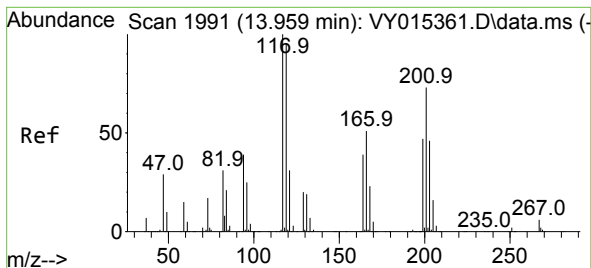
Ion Ratio Lower Upper

91 100

92 12.4 25.4 76.0#

134 186.8 12.6 37.6#





#90

Hexachloroethane

Concen: 71.640 ug/l

RT: 13.977 min Scan# 1994

Delta R.T. 0.018 min

Lab File: VY015601.D

Acq: 16 Sep 2023 04:44

Instrument :

MSVOA_Y

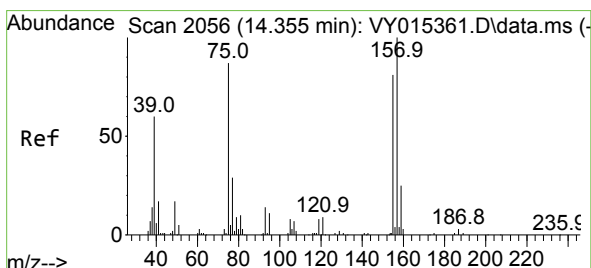
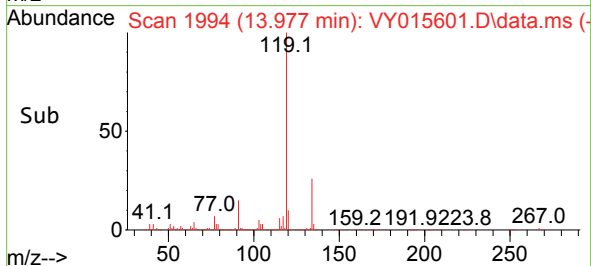
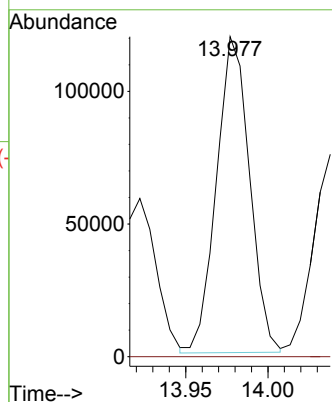
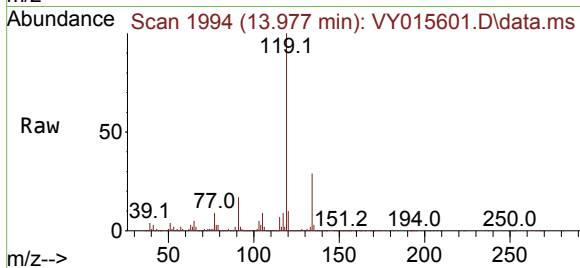
ClientSampleId :

Tgt Ion:117 Resp: 166831

Ion Ratio Lower Upper

117 100

201 0.0 41.6 124.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 16.782 ug/l

RT: 14.343 min Scan# 2054

Delta R.T. -0.012 min

Lab File: VY015601.D

Acq: 16 Sep 2023 04:44

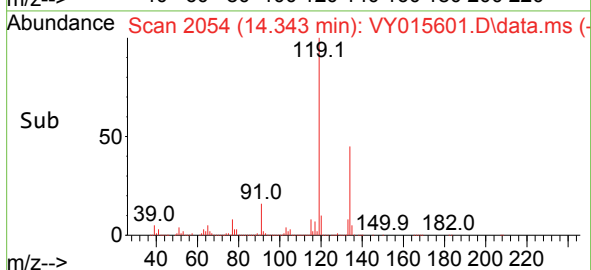
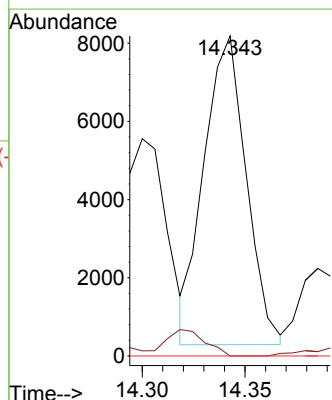
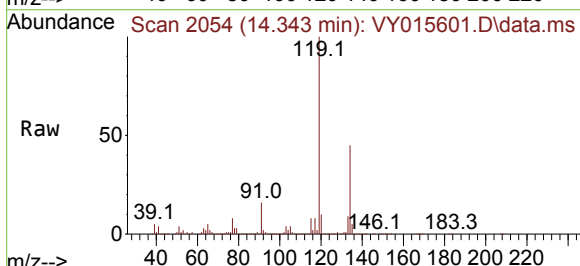
Tgt Ion: 75 Resp: 11267

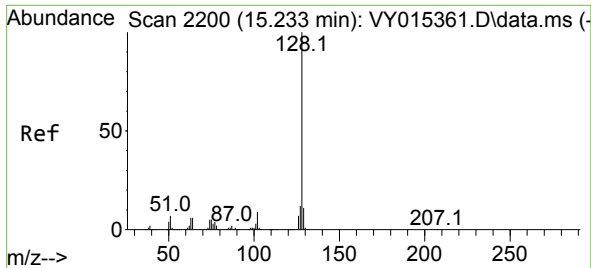
Ion Ratio Lower Upper

75 100

155 0.0 41.5 124.6#

157 0.0 51.8 155.5#





#95

Naphthalene

Concen: 141.645 ug/l

RT: 15.239 min Scan# 21

Delta R.T. 0.006 min

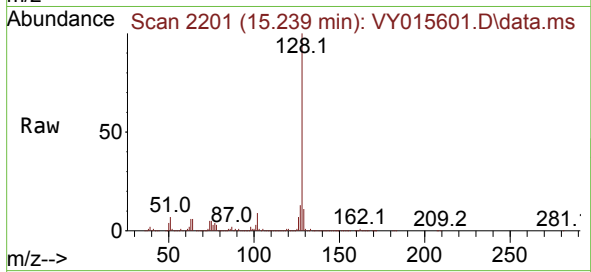
Lab File: VY015601.D

Acq: 16 Sep 2023 04:44

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:128 Resp: 1336806

Ion Ratio Lower Upper

128 100

127 12.8 10.8 16.2

129 11.0 8.6 13.0

