

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082423\
 Data File : VY015326.D
 Acq On : 24 Aug 2023 20:48
 Operator : SY/MD
 Sample : 04147-02
 Misc : 2.98g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 25 03:27:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 14 12:43:26 2023
 Response via : Initial Calibration

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

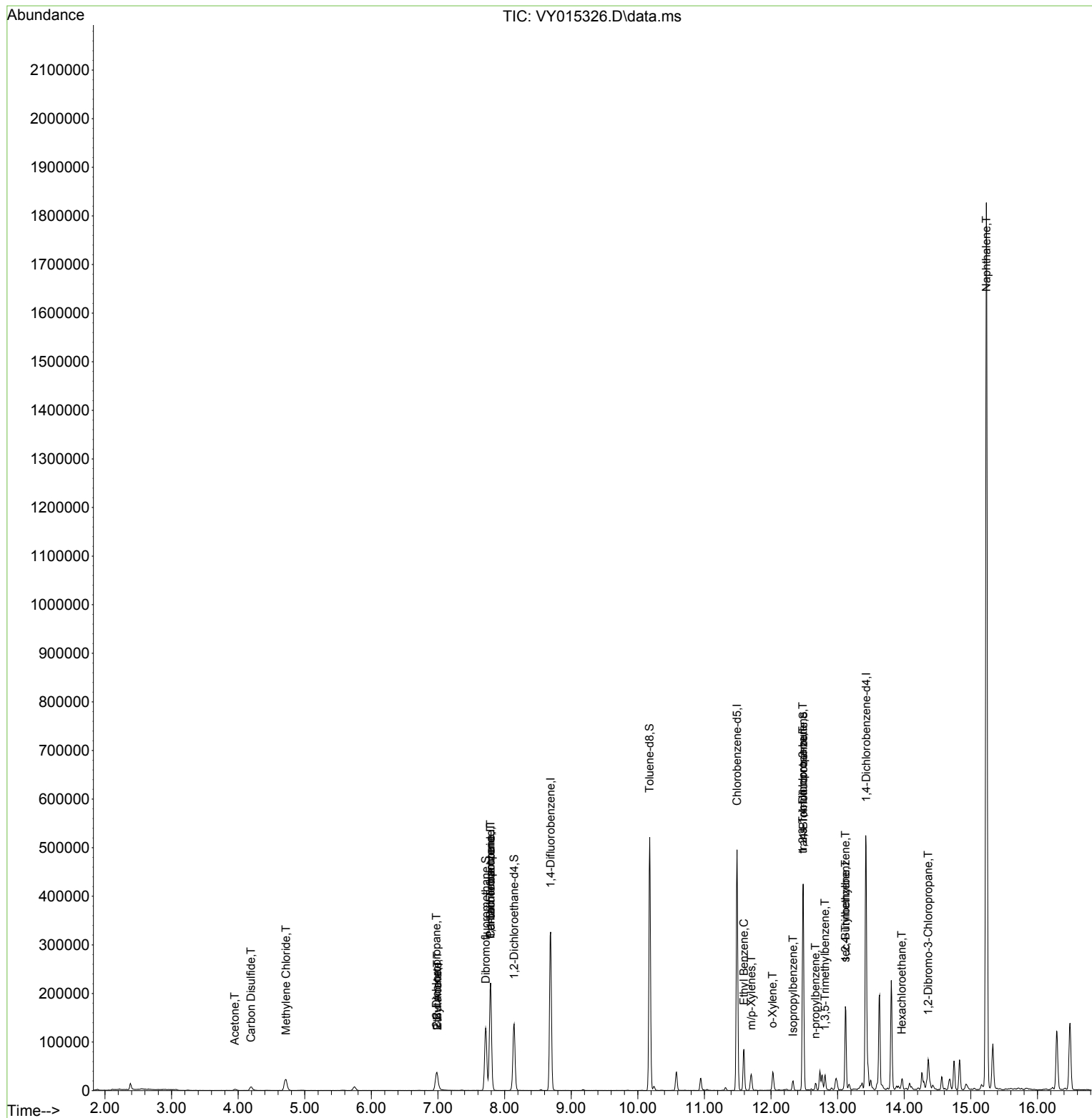
Internal Standards						
1) Pentafluorobenzene	7.789	168	171156	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	286839	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	262880	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	133648	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	107109	52.132	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.260%			
35) Dibromofluoromethane	7.716	113	90156	48.856	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.720%			
50) Toluene-d8	10.179	98	333198	48.505	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.000%			
62) 4-Bromofluorobenzene	12.483	95	121330	48.357	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 96.720%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.107	50	253	Below Cal	#	52
5) Bromomethane	2.662	94	207	Below Cal		81
11) Tert butyl alcohol	4.948	59	600	Below Cal	#	89
13) Acrolein	3.723	56	97	Below Cal	#	65
16) Acetone	3.948	43	4602	6.856	ug/l	95
17) Carbon Disulfide	4.192	76	14674	7.001	ug/l	98
20) Methylene Chloride	4.716	84	17832	7.400	ug/l #	85
25) 2-Butanone	6.990	43	3171	3.337	ug/l #	85
26) 2,2-Dichloropropane	6.978	77	2909	1.058	ug/l #	54
31) Cyclohexane	7.783	56	3638	Below Cal	#	16
36) 1,1-Dichloropropene	7.789	75	13268	6.499	ug/l #	50
37) Ethyl Acetate	6.990	43	3171	1.666	ug/l #	25
38) Carbon Tetrachloride	7.789	117	16974	7.025	ug/l #	15
67) Ethyl Benzene	11.593	91	56928	6.784	ug/l	94
68) m/p-Xylenes	11.703	106	10425	3.271	ug/l	97
69) o-Xylene	12.026	106	9318	2.935	ug/l	97
73) Isopropylbenzene	12.331	105	12050	1.402	ug/l	100
76) 1,2,3-Trichloropropane	12.477	75	65887	40.578	ug/l #	100
78) n-propylbenzene	12.666	91	11734	1.150	ug/l	97
80) 1,3,5-Trimethylbenzene	12.812	105	12718	1.775	ug/l	91
81) trans-1,4-Dichloro-2-b...	12.477	75	65887	89.128	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.117	105	91191	12.739	ug/l	99
85) sec-Butylbenzene	13.117	105	91191	9.498	ug/l #	56
90) Hexachloroethane	13.965	117	2014	1.275	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.361	75	1620	3.736	ug/l #	3
95) Naphthalene	15.233	128	1494180	240.706	ug/l	99

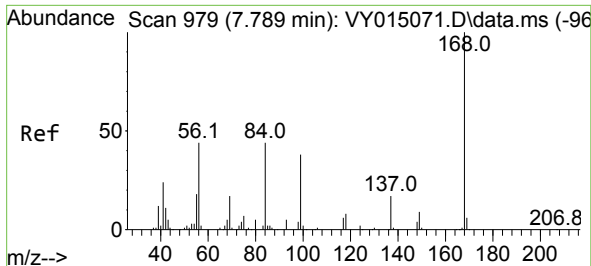
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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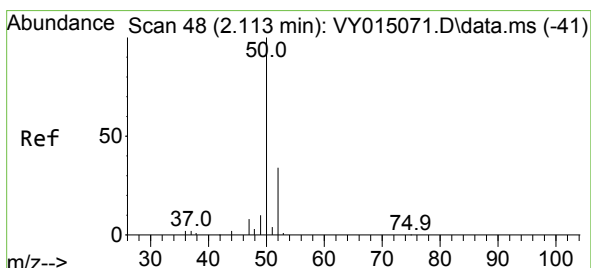
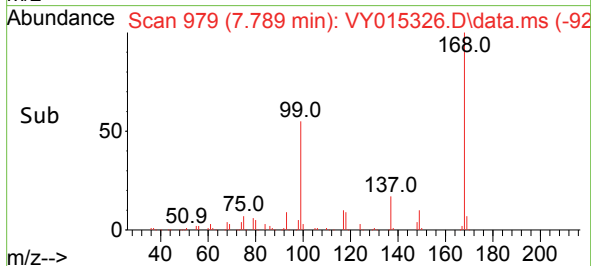
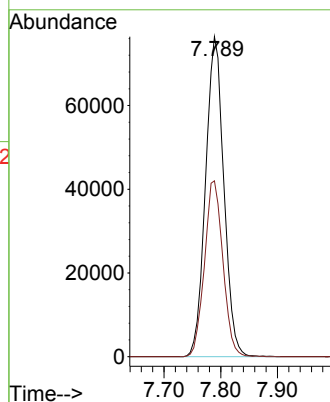
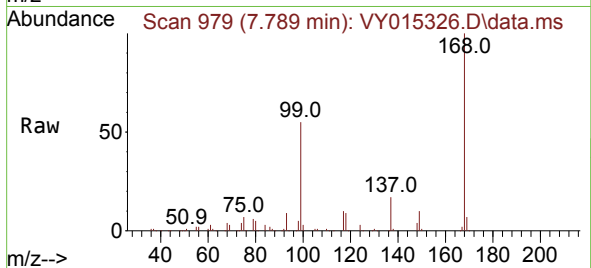




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015326.D
Acq: 24 Aug 2023 20:48

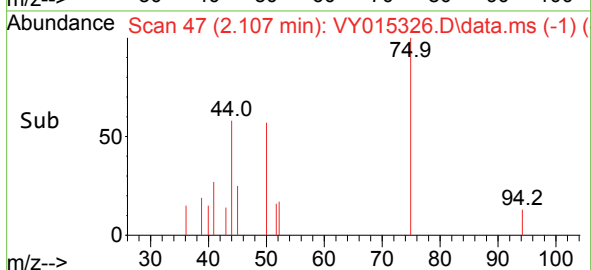
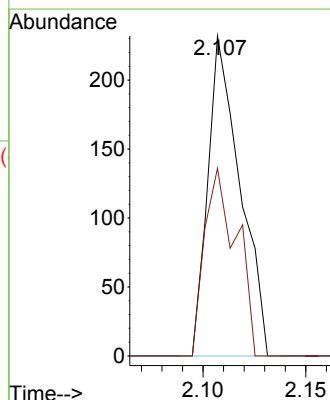
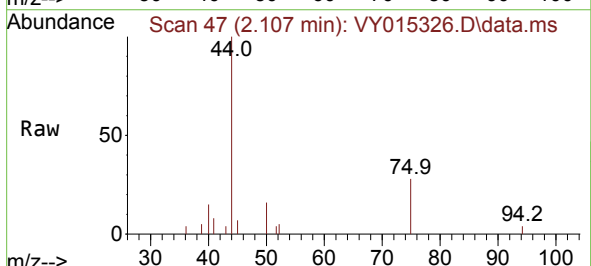
Instrument :
MSVOA_Y
ClientSampleId :

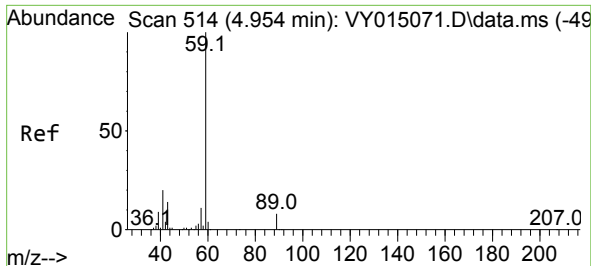
Tgt Ion:168 Resp: 171156
Ion Ratio Lower Upper
168 100
99 54.9 43.4 65.0



#3
Chloromethane
Concen: Below Cal
RT: 2.107 min Scan# 47
Delta R.T. 0.000 min
Lab File: VY015326.D
Acq: 24 Aug 2023 20:48

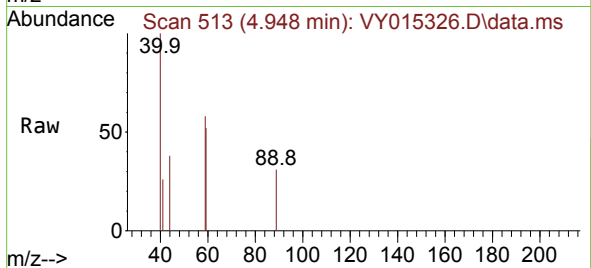
Tgt Ion: 50 Resp: 253
Ion Ratio Lower Upper
50 100
52 58.6 25.4 38.2#



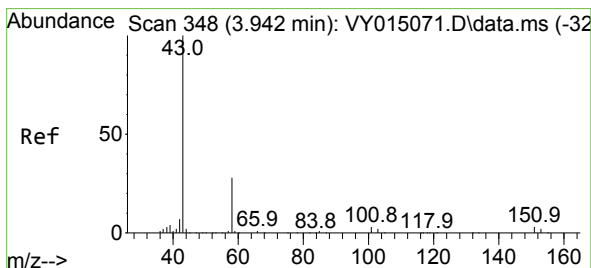
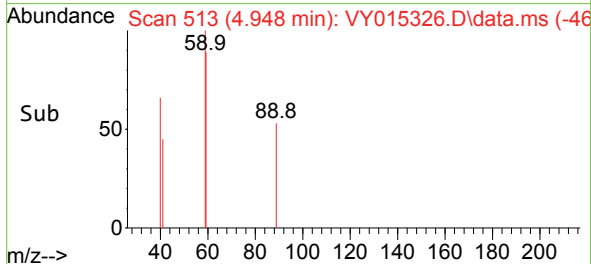
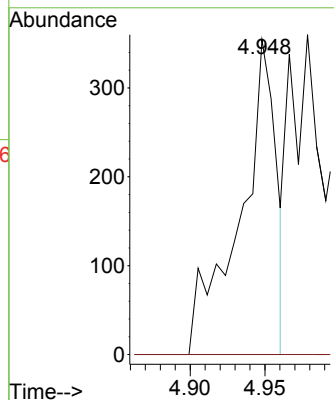


#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.948 min Scan# 514
Delta R.T. -0.000 min
Lab File: VY015326.D
Acq: 24 Aug 2023 20:48

Instrument :
MSVOA_Y
ClientSampleId :

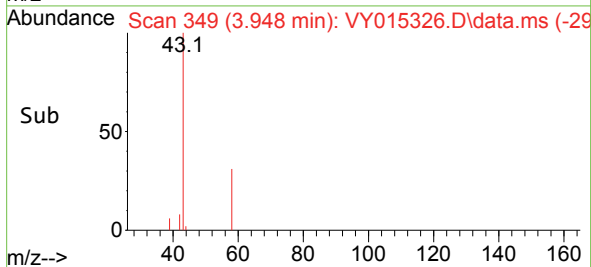
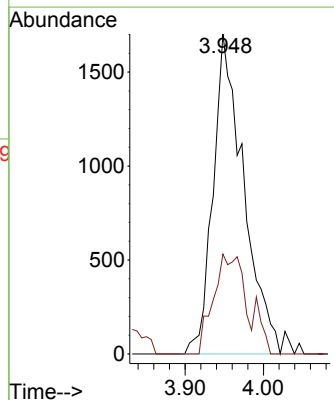
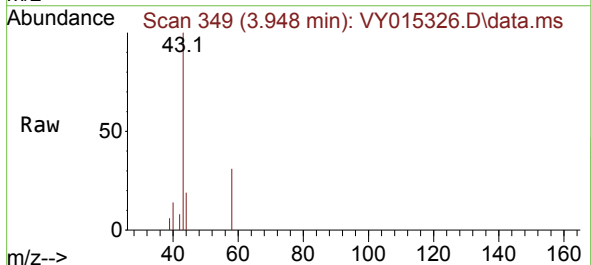


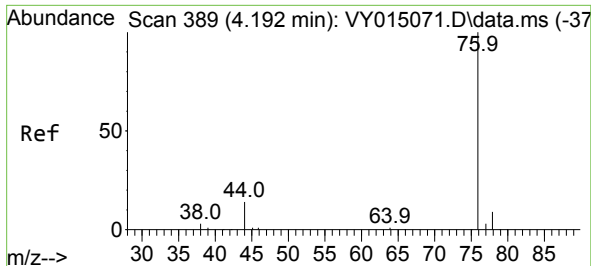
Tgt Ion: 59 Resp: 600
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#



#16
Acetone
Concen: 6.856 ug/l
RT: 3.948 min Scan# 349
Delta R.T. 0.006 min
Lab File: VY015326.D
Acq: 24 Aug 2023 20:48

Tgt Ion: 43 Resp: 4602
Ion Ratio Lower Upper
43 100
58 31.2 22.7 34.1

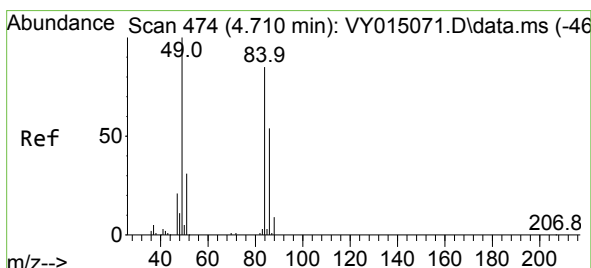
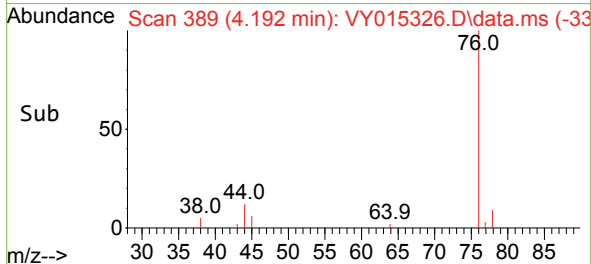
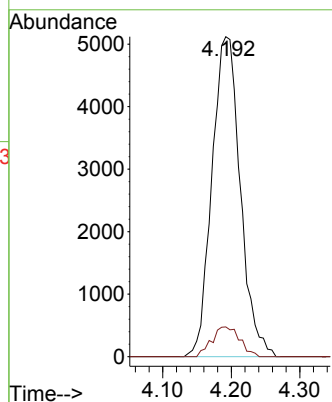
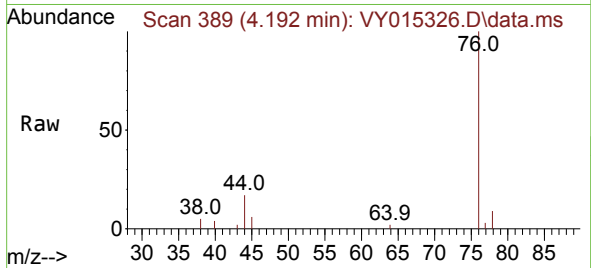




#17
Carbon Disulfide
Concen: 7.001 ug/l
RT: 4.192 min Scan# 389
Delta R.T. 0.006 min
Lab File: VY015326.D
Acq: 24 Aug 2023 20:48

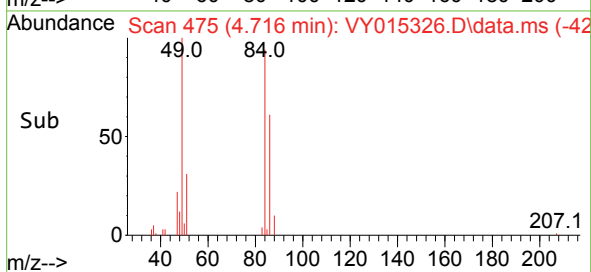
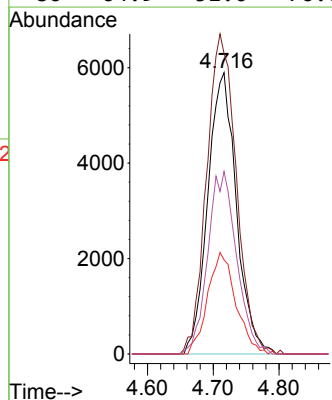
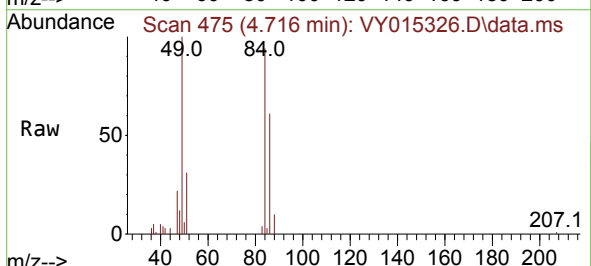
Instrument :
MSVOA_Y
ClientSampleId :

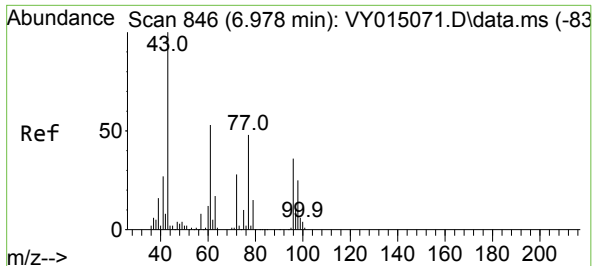
Tgt Ion: 76 Resp: 14674
Ion Ratio Lower Upper
76 100
78 9.3 7.0 10.4



#20
Methylene Chloride
Concen: 7.400 ug/l
RT: 4.716 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY015326.D
Acq: 24 Aug 2023 20:48

Tgt Ion: 84 Resp: 17832
Ion Ratio Lower Upper
84 100
49 106.8 106.9 160.3#
51 33.5 33.2 49.8
86 64.9 51.0 76.6





#25

2-Butanone

Concen: 3.337 ug/l

RT: 6.990 min Scan# 846

Delta R.T. 0.012 min

Lab File: VY015326.D

Acq: 24 Aug 2023 20:48

Instrument :

MSVOA_Y

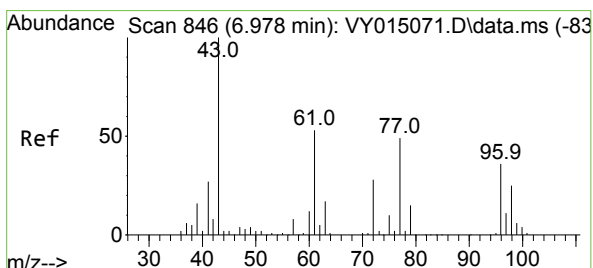
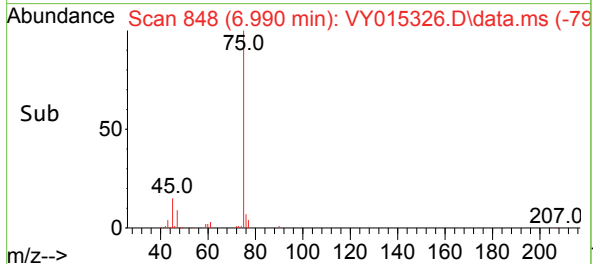
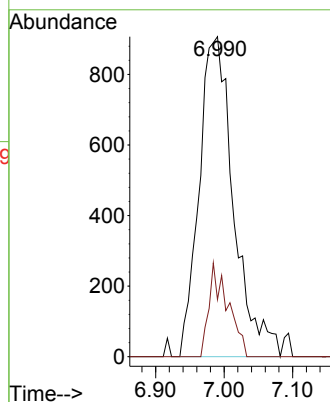
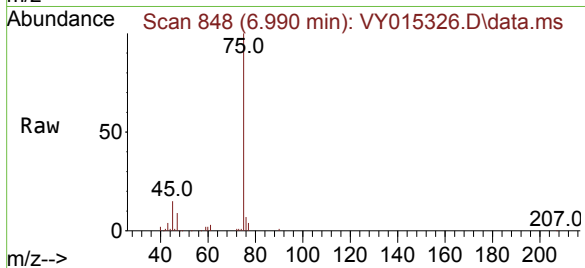
ClientSampleId :

Tgt Ion: 43 Resp: 3171

Ion Ratio Lower Upper

43 100

72 17.9 20.5 30.7#



#26

2,2-Dichloropropane

Concen: 1.058 ug/l

RT: 6.978 min Scan# 846

Delta R.T. 0.006 min

Lab File: VY015326.D

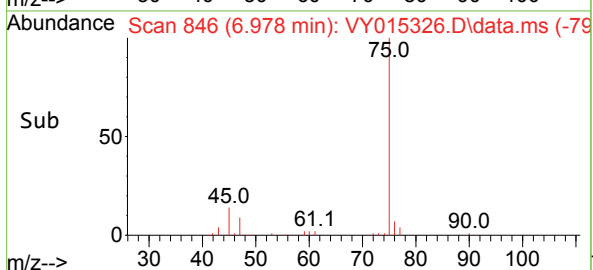
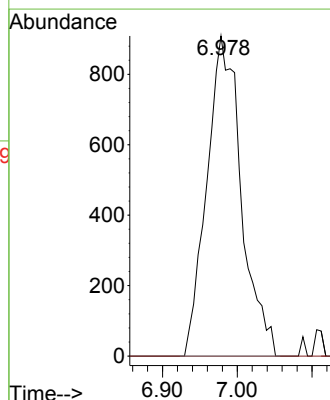
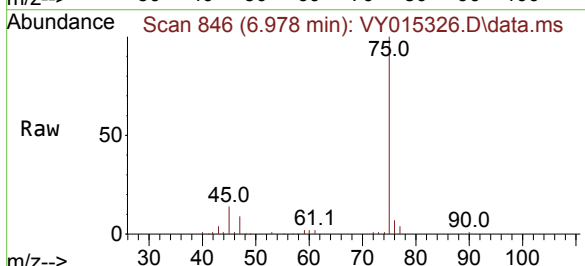
Acq: 24 Aug 2023 20:48

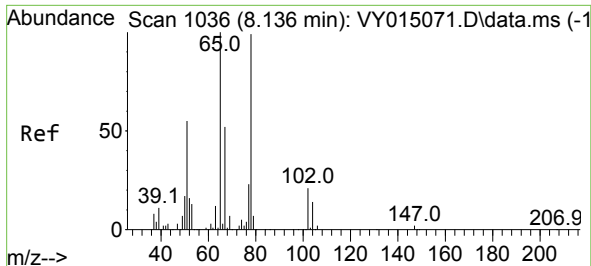
Tgt Ion: 77 Resp: 2909

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.9#





#33

1,2-Dichloroethane-d4

Concen: 52.132 ug/l

RT: 8.143 min Scan# 1107

Delta R.T. 0.006 min

Lab File: VY015326.D

Acq: 24 Aug 2023 20:48

Instrument :

MSVOA_Y

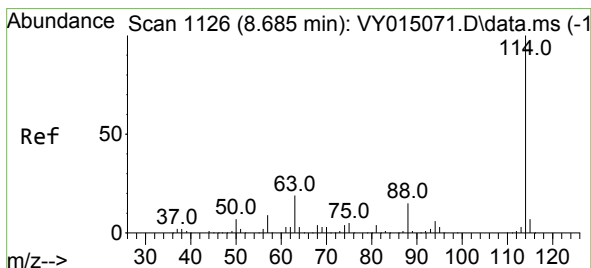
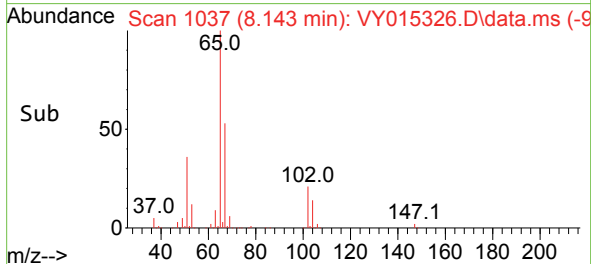
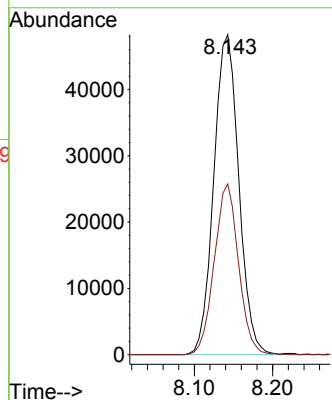
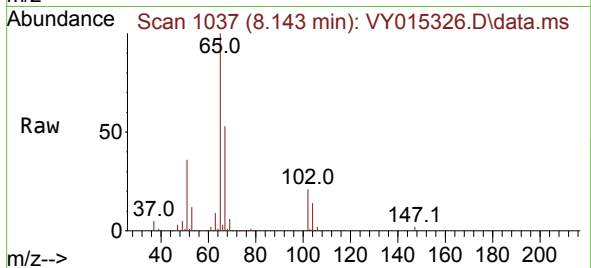
ClientSampleId :

Tgt Ion: 65 Resp: 107109

Ion Ratio Lower Upper

65 100

67 51.7 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: VY015326.D

Acq: 24 Aug 2023 20:48

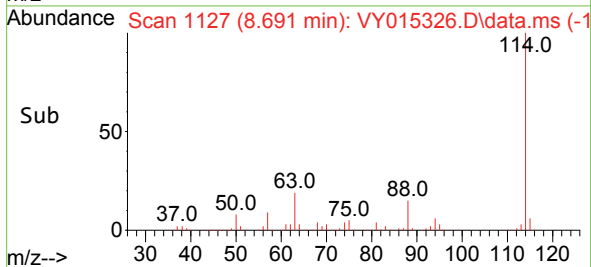
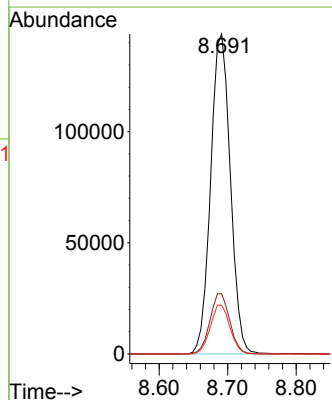
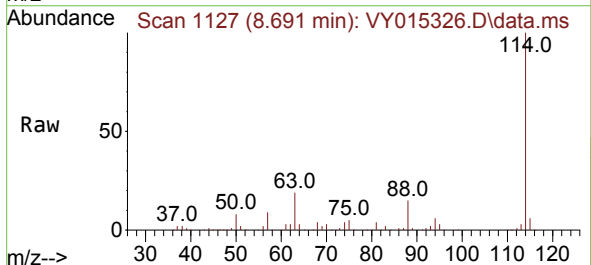
Tgt Ion: 114 Resp: 286839

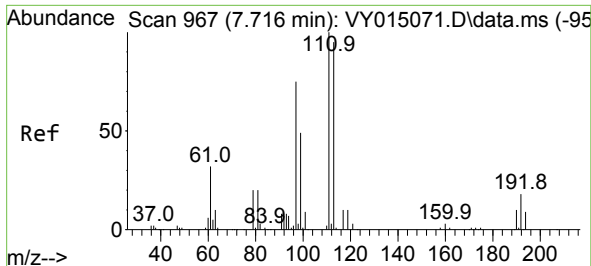
Ion Ratio Lower Upper

114 100

63 18.8 0.0 42.4

88 15.2 0.0 30.6

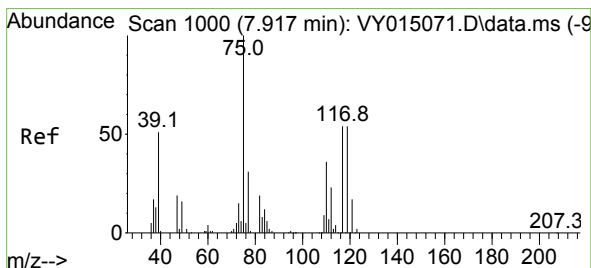
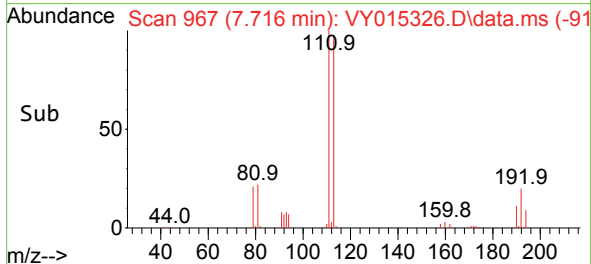
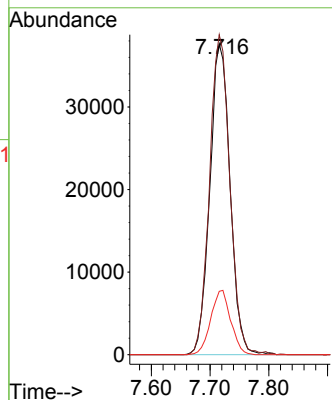
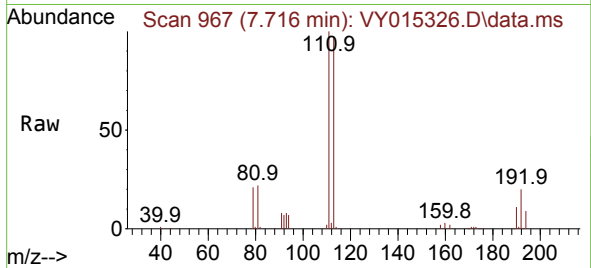




#35
Dibromofluoromethane
Concen: 48.856 ug/l
RT: 7.716 min Scan# 901
Delta R.T. 0.000 min
Lab File: VY015326.D
Acq: 24 Aug 2023 20:48

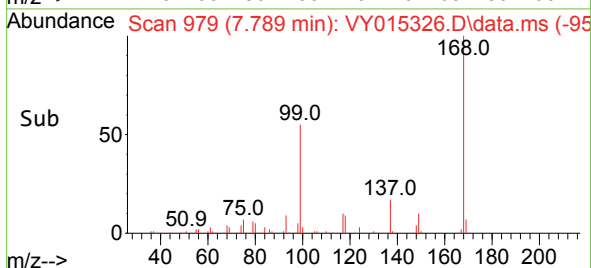
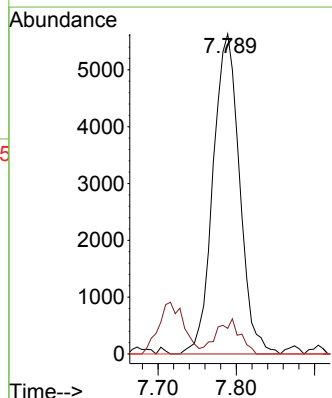
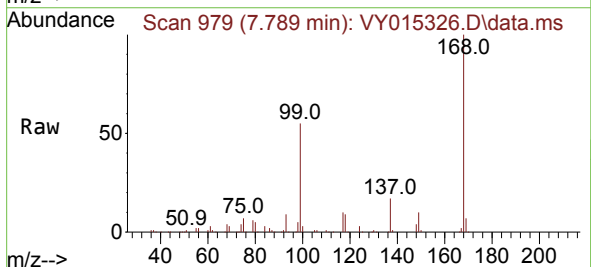
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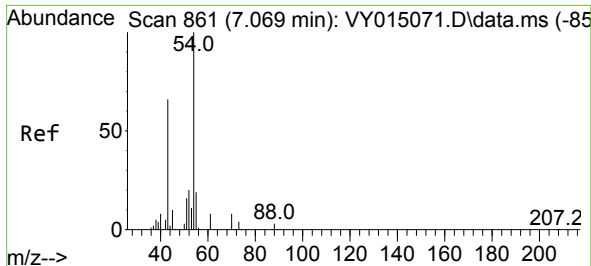
Tgt Ion:113 Resp: 90156
Ion Ratio Lower Upper
113 100
111 103.4 81.3 121.9
192 20.4 16.9 25.3



#36
1,1-Dichloropropene
Concen: 6.499 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.122 min
Lab File: VY015326.D
Acq: 24 Aug 2023 20:48

Tgt Ion: 75 Resp: 13268
Ion Ratio Lower Upper
75 100
110 9.8 17.8 53.5#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 1.666 ug/l

RT: 6.990 min Scan# 84

Delta R.T. -0.079 min

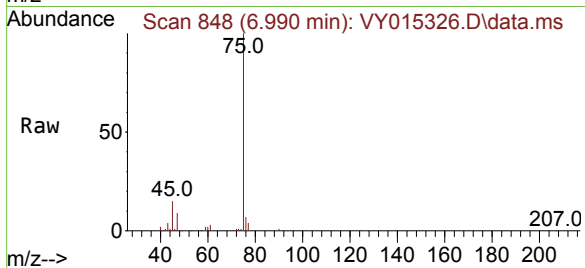
Lab File: VY015326.D

Acq: 24 Aug 2023 20:48

Instrument :

MSVOA_Y

ClientSampleId :



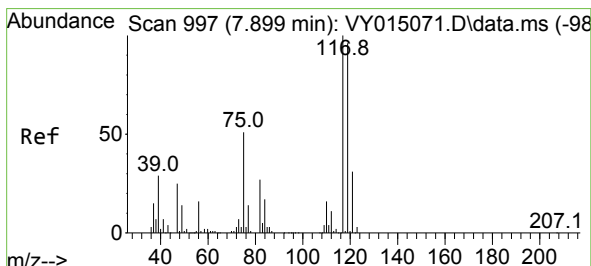
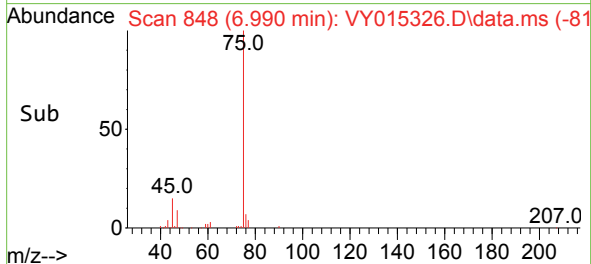
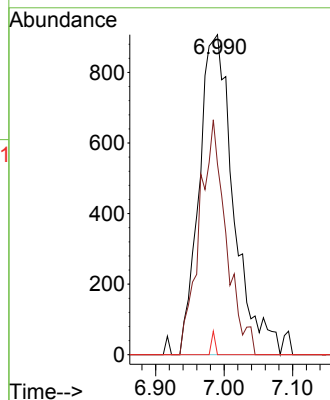
Tgt Ion: 43 Resp: 3171

Ion Ratio Lower Upper

43 100

61 57.0 10.1 15.1#

70 0.8 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 7.025 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY015326.D

Acq: 24 Aug 2023 20:48

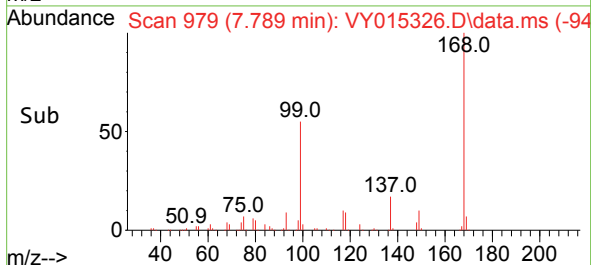
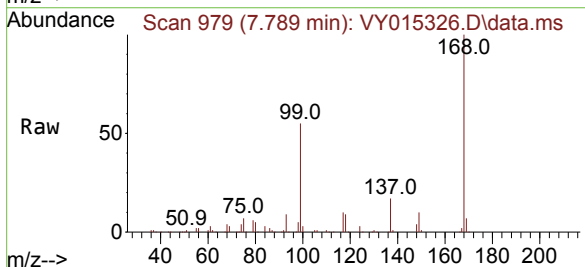
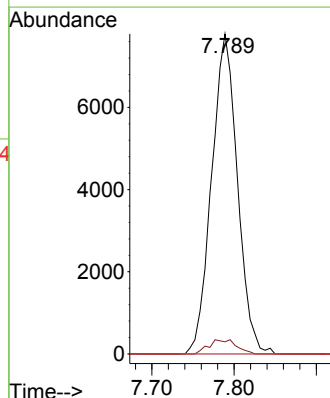
Tgt Ion: 117 Resp: 16974

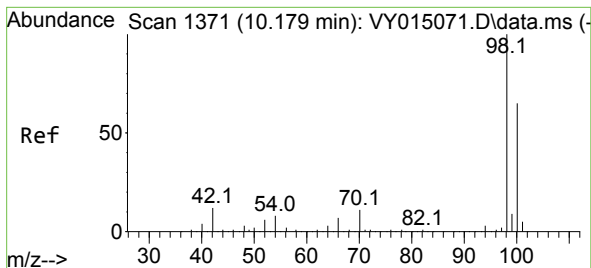
Ion Ratio Lower Upper

117 100

119 3.8 76.4 114.6#

121 0.0 25.8 38.6#





#50

Toluene-d8

Concen: 48.505 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. 0.000 min

Lab File: VY015326.D

Acq: 24 Aug 2023 20:48

Instrument :

MSVOA_Y

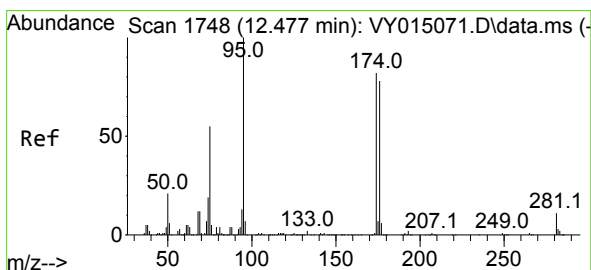
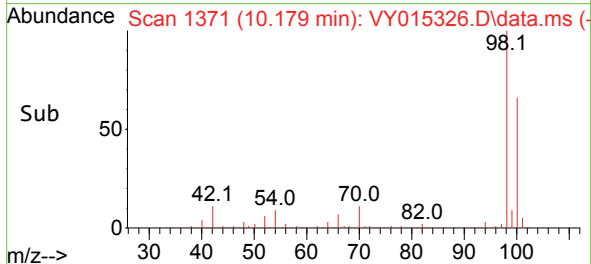
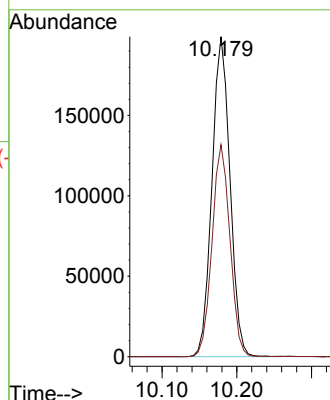
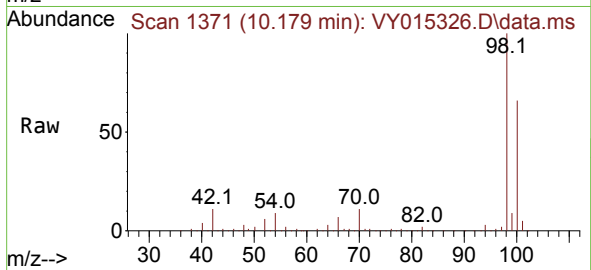
ClientSampleId :

Tgt Ion: 98 Resp: 333198

Ion Ratio Lower Upper

98 100

100 65.8 50.1 75.1



#62

4-Bromofluorobenzene

Concen: 48.357 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.006 min

Lab File: VY015326.D

Acq: 24 Aug 2023 20:48

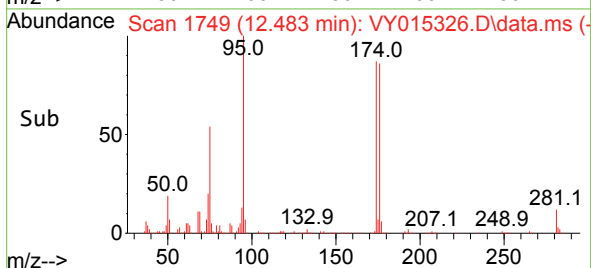
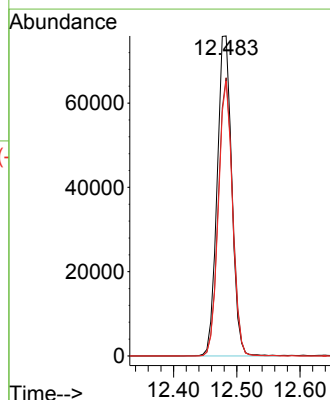
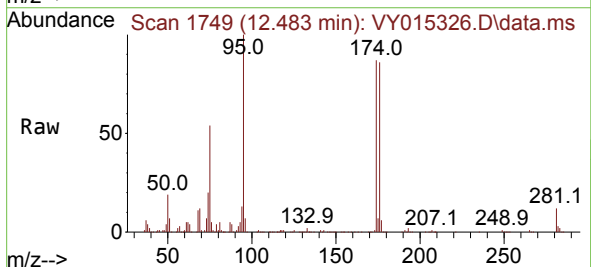
Tgt Ion: 95 Resp: 121330

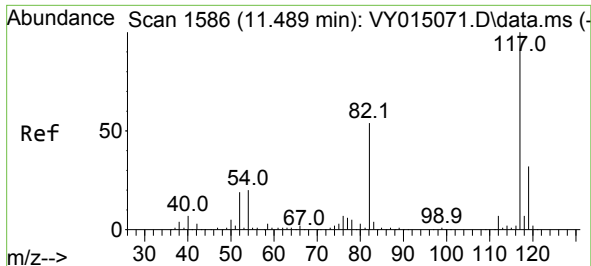
Ion Ratio Lower Upper

95 100

174 85.0 0.0 178.2

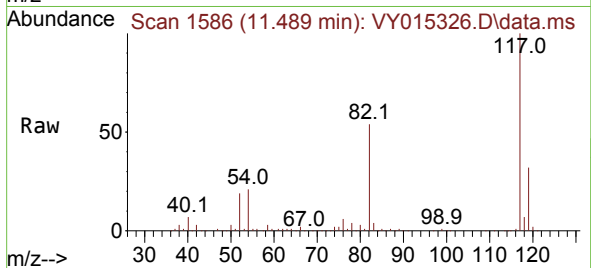
176 82.3 0.0 173.8



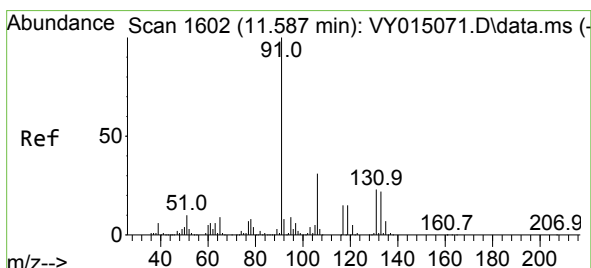
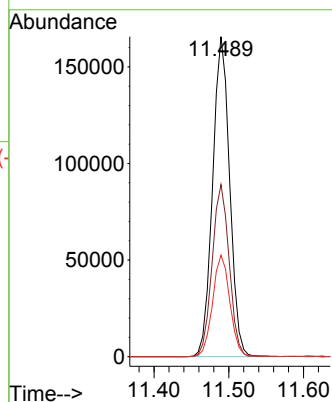
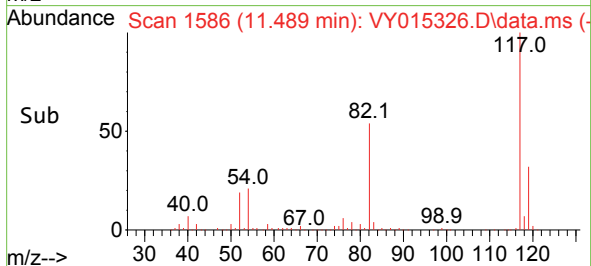


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 117
Delta R.T. 0.000 min
Lab File: VY015326.D
Acq: 24 Aug 2023 20:48

Instrument :
MSVOA_Y
ClientSampleId :

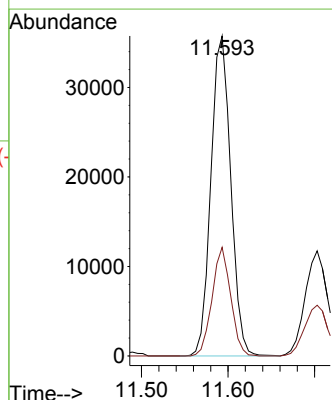
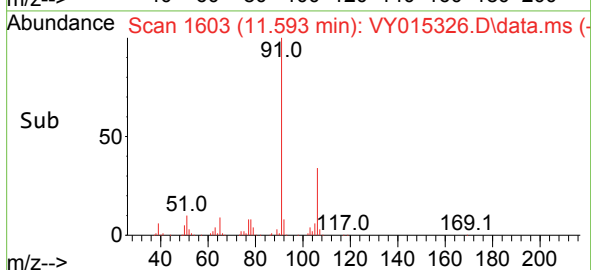
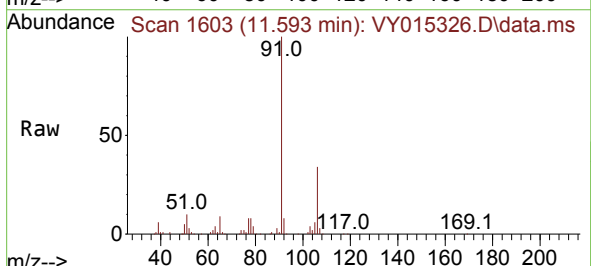


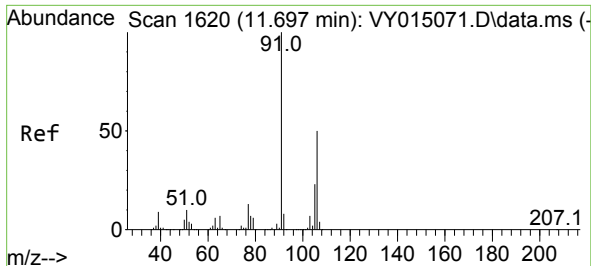
Tgt Ion:117 Resp: 262880
Ion Ratio Lower Upper
117 100
82 53.8 43.4 65.0
119 31.7 26.3 39.5



#67
Ethyl Benzene
Concen: 6.784 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. 0.006 min
Lab File: VY015326.D
Acq: 24 Aug 2023 20:48

Tgt Ion: 91 Resp: 56928
Ion Ratio Lower Upper
91 100
106 33.9 24.6 36.8

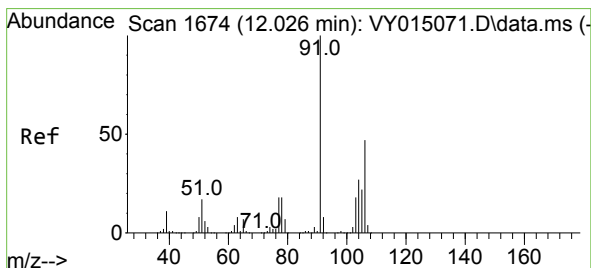
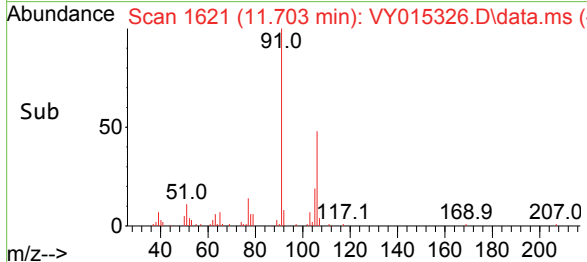
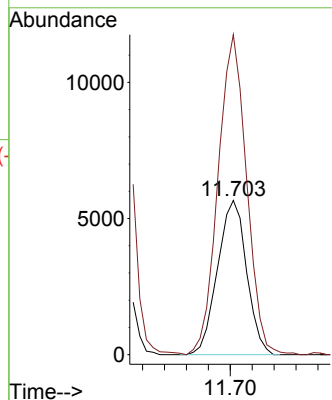
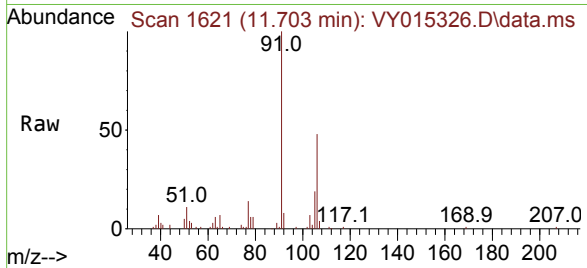




#68
m/p-Xylenes
Concen: 3.271 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. 0.006 min
Lab File: VY015326.D
Acq: 24 Aug 2023 20:48

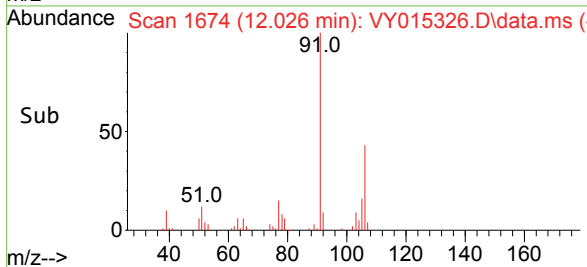
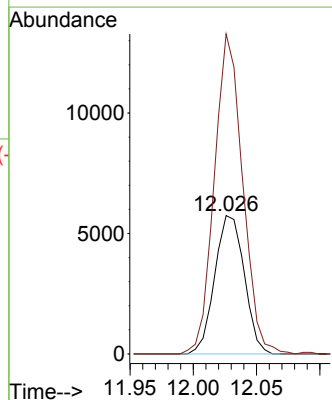
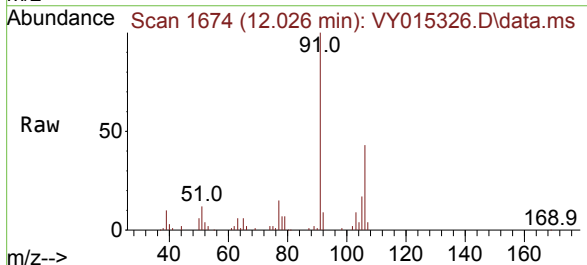
Instrument :
MSVOA_Y
ClientSampleId :

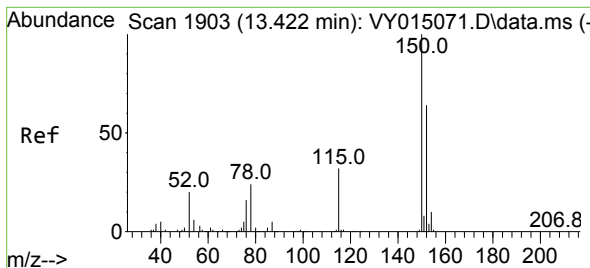
Tgt Ion:106 Resp: 10425
Ion Ratio Lower Upper
106 100
91 203.6 166.1 249.1



#69
o-Xylene
Concen: 2.935 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. 0.000 min
Lab File: VY015326.D
Acq: 24 Aug 2023 20:48

Tgt Ion:106 Resp: 9318
Ion Ratio Lower Upper
106 100
91 221.6 108.1 324.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1903

Delta R.T. 0.006 min

Lab File: VY015326.D

Acq: 24 Aug 2023 20:48

Instrument :

MSVOA_Y

ClientSampleId :

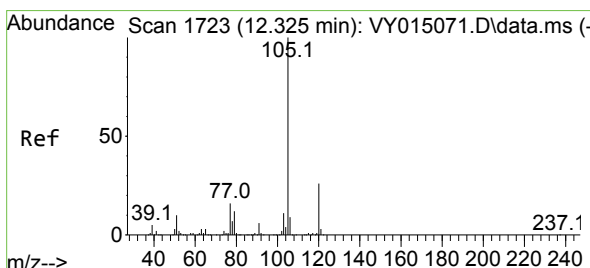
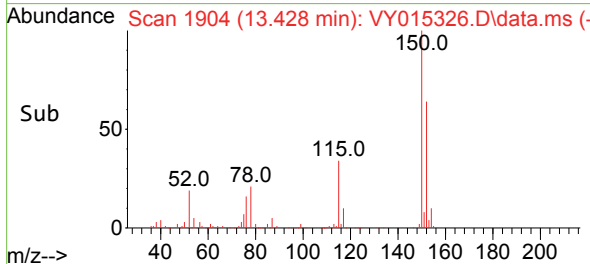
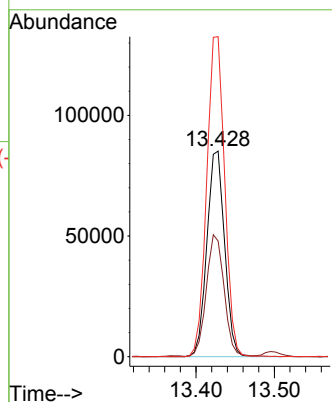
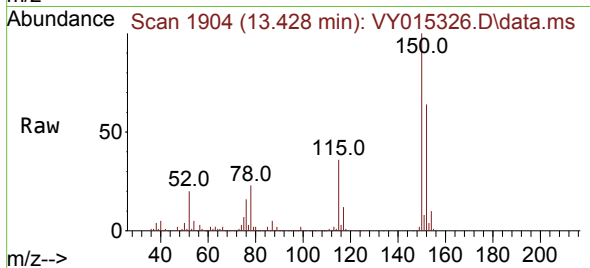
Tgt Ion:152 Resp: 133648

Ion Ratio Lower Upper

152 100

115 59.2 28.8 86.5

150 157.7 0.0 348.8



#73

Isopropylbenzene

Concen: 1.402 ug/l

RT: 12.331 min Scan# 1724

Delta R.T. 0.006 min

Lab File: VY015326.D

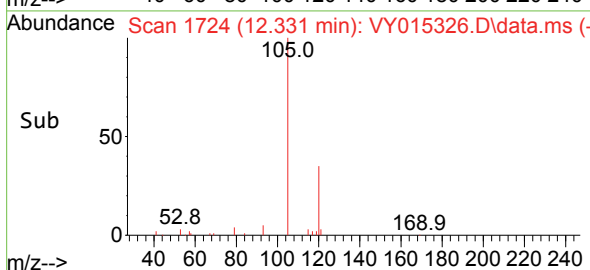
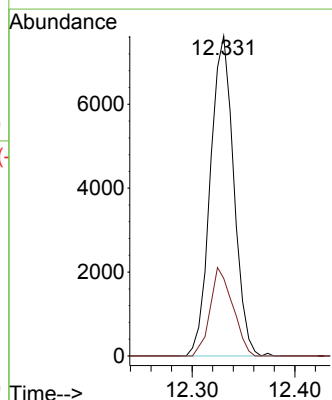
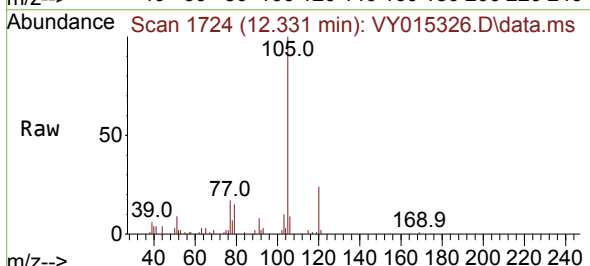
Acq: 24 Aug 2023 20:48

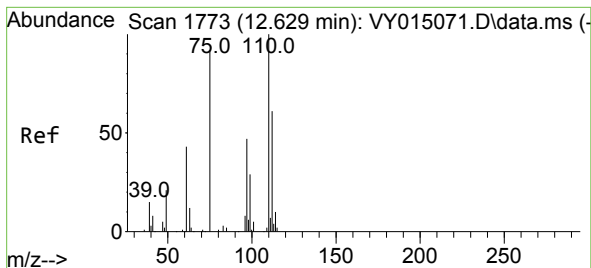
Tgt Ion:105 Resp: 12050

Ion Ratio Lower Upper

105 100

120 26.7 13.3 39.9





#76

1,2,3-Trichloropropane

Concen: 40.578 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.152 min

Lab File: VY015326.D

Acq: 24 Aug 2023 20:48

Instrument :

MSVOA_Y

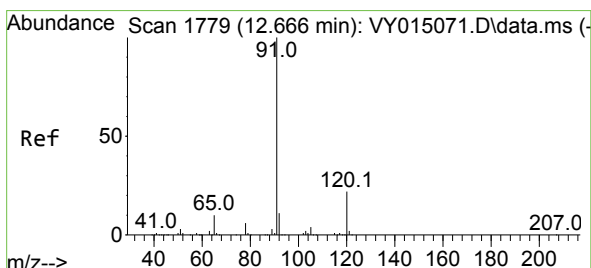
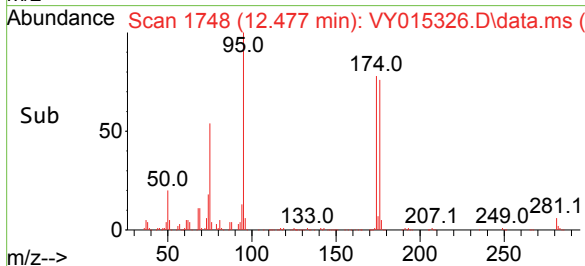
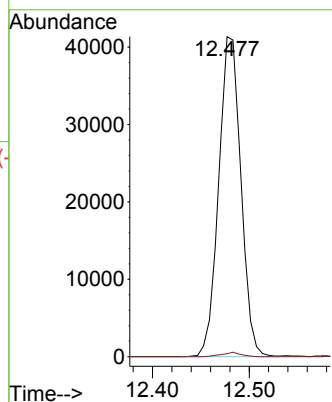
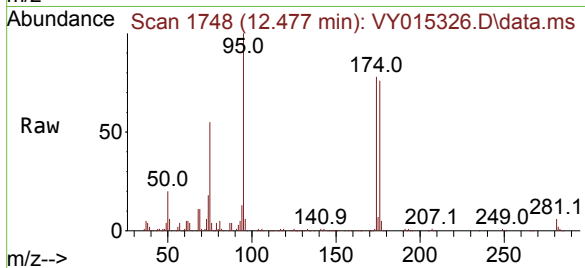
ClientSampleId :

Tgt Ion: 75 Resp: 65887

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#78

n-propylbenzene

Concen: 1.150 ug/l

RT: 12.666 min Scan# 1779

Delta R.T. 0.000 min

Lab File: VY015326.D

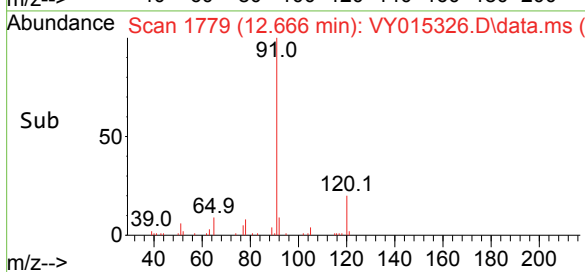
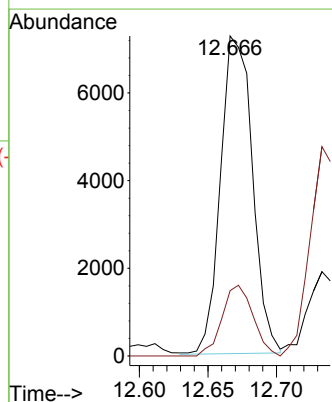
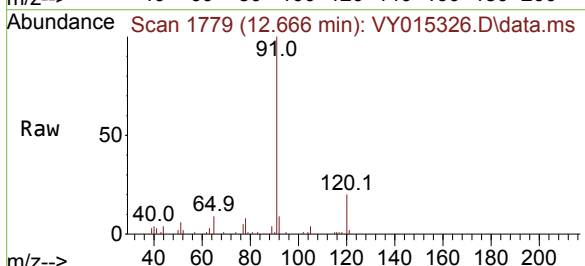
Acq: 24 Aug 2023 20:48

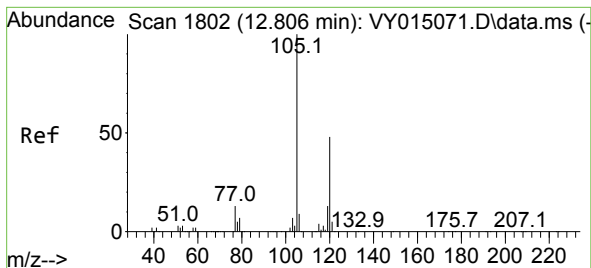
Tgt Ion: 91 Resp: 11734

Ion Ratio Lower Upper

91 100

120 21.6 11.5 34.4





#80

1,3,5-Trimethylbenzene

Concen: 1.775 ug/l

RT: 12.812 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY015326.D

Acq: 24 Aug 2023 20:48

Instrument :

MSVOA_Y

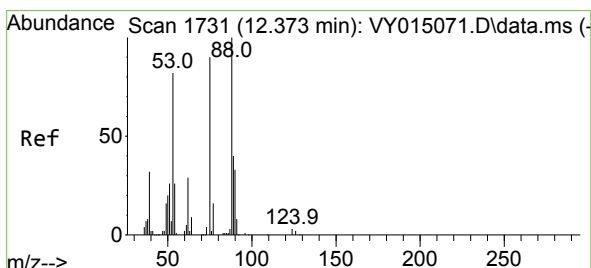
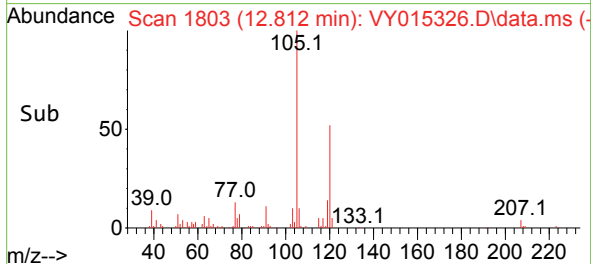
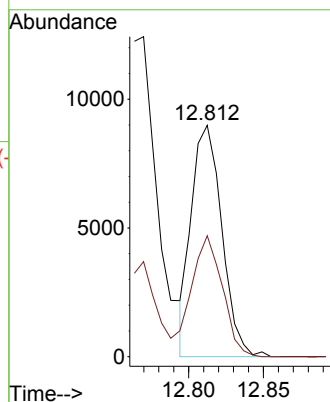
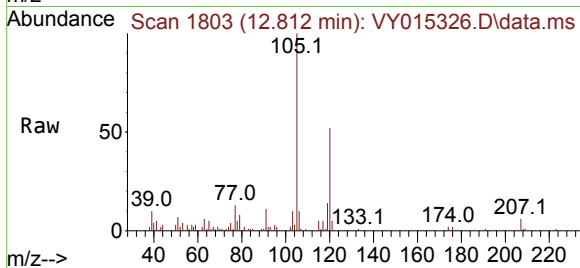
ClientSampleId :

Tgt Ion:105 Resp: 12718

Ion Ratio Lower Upper

105 100

120 53.7 23.9 71.7



#81

trans-1,4-Dichloro-2-butene

Concen: 89.128 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.104 min

Lab File: VY015326.D

Acq: 24 Aug 2023 20:48

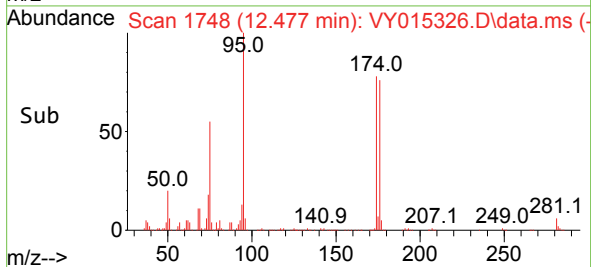
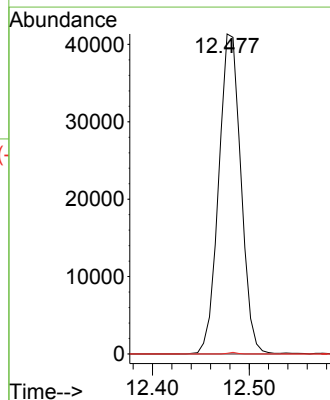
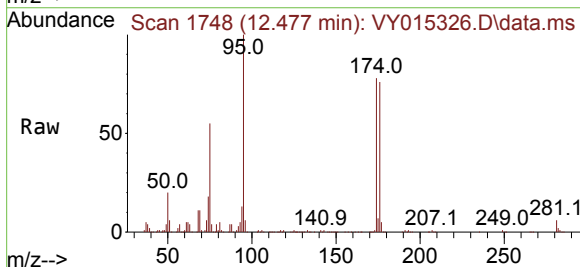
Tgt Ion: 75 Resp: 65887

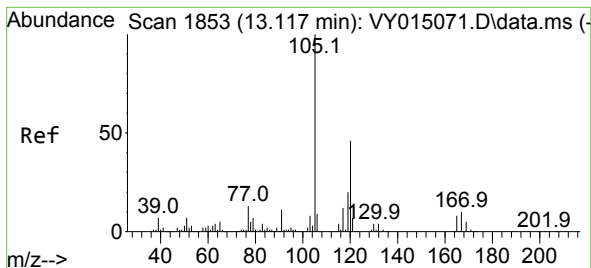
Ion Ratio Lower Upper

75 100

53 0.0 77.8 116.8#

89 0.2 37.4 56.0#





#84

1,2,4-Trimethylbenzene

Concen: 12.739 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY015326.D

Acq: 24 Aug 2023 20:48

Instrument :

MSVOA_Y

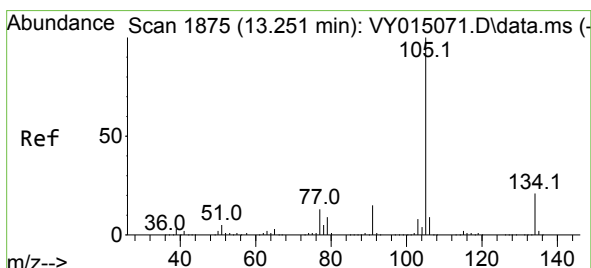
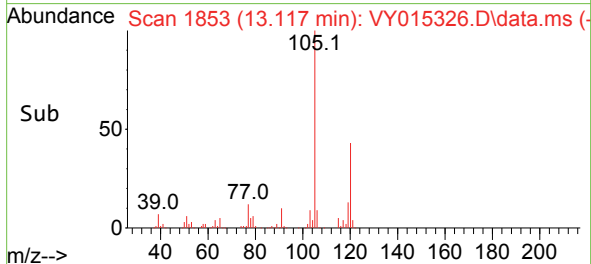
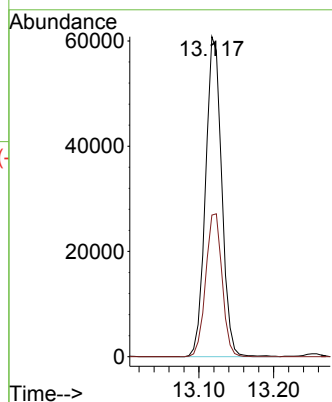
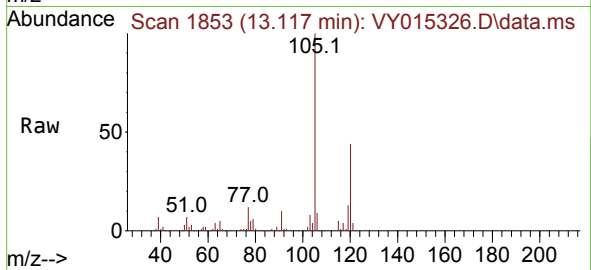
ClientSampleId :

Tgt Ion:105 Resp: 91191

Ion Ratio Lower Upper

105 100

120 45.2 22.2 66.6



#85

sec-Butylbenzene

Concen: 9.498 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. -0.134 min

Lab File: VY015326.D

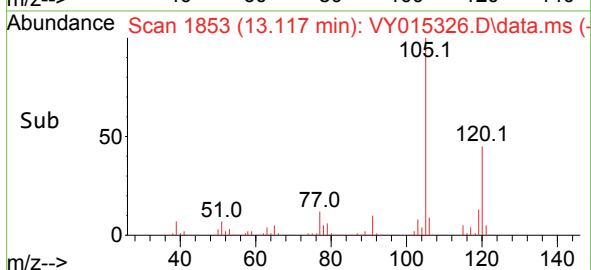
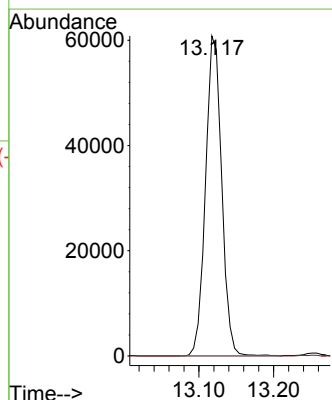
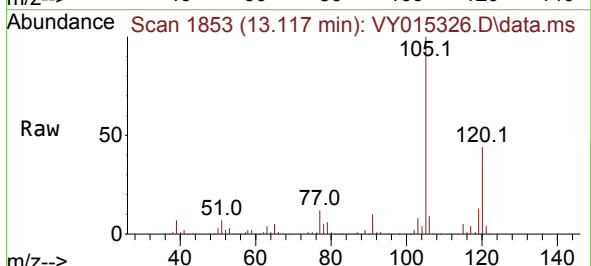
Acq: 24 Aug 2023 20:48

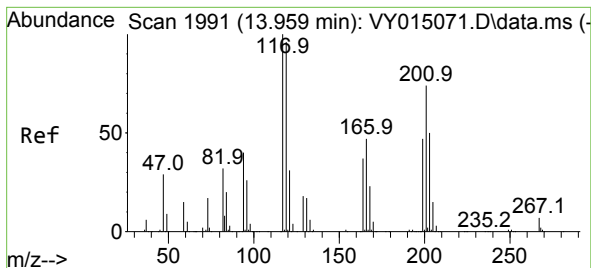
Tgt Ion:105 Resp: 91191

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.6#





#90

Hexachloroethane

Concen: 1.275 ug/l

RT: 13.965 min Scan# 1991

Delta R.T. 0.006 min

Lab File: VY015326.D

Acq: 24 Aug 2023 20:48

Instrument :

MSVOA_Y

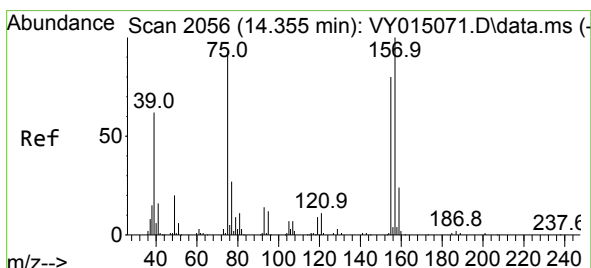
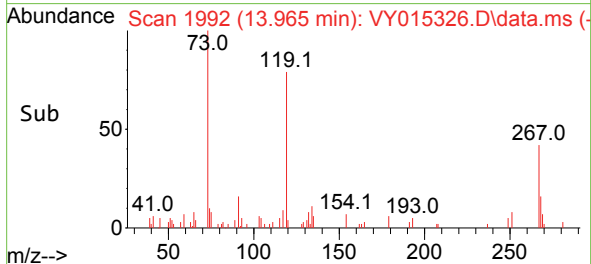
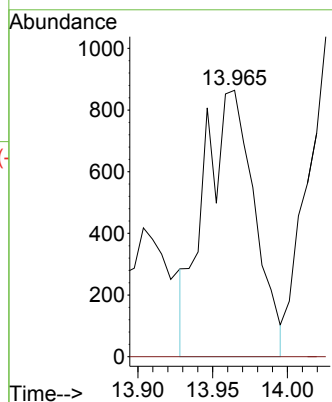
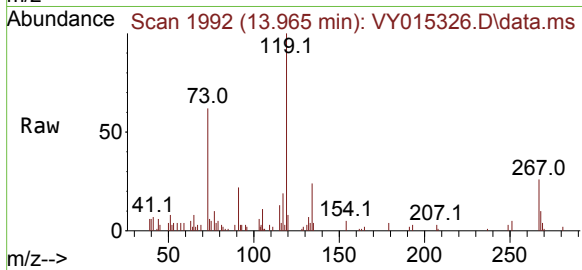
ClientSampleId :

Tgt Ion:117 Resp: 2014

Ion Ratio Lower Upper

117 100

201 0.0 41.6 124.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.736 ug/l

RT: 14.361 min Scan# 2057

Delta R.T. 0.006 min

Lab File: VY015326.D

Acq: 24 Aug 2023 20:48

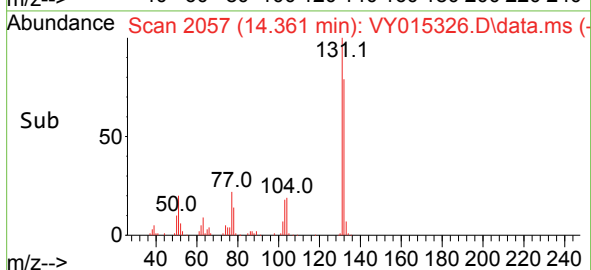
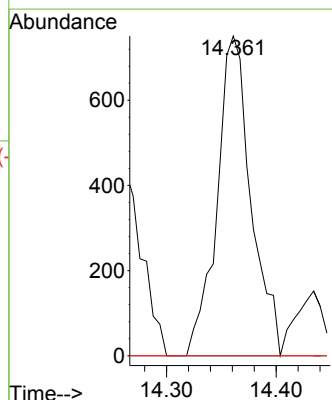
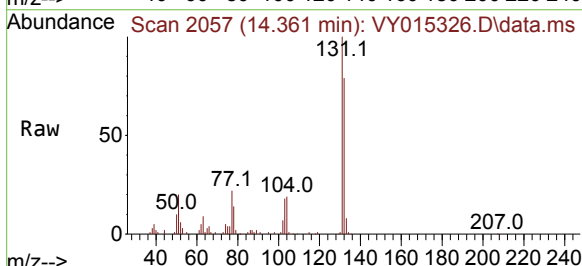
Tgt Ion: 75 Resp: 1620

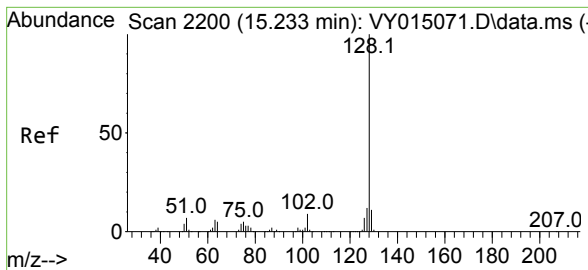
Ion Ratio Lower Upper

75 100

155 0.0 41.5 124.6#

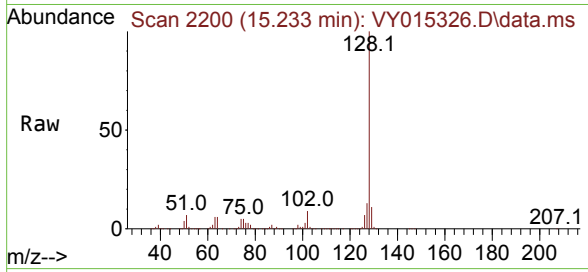
157 0.0 51.8 155.5#





#95
 Naphthalene
 Concen: 240.706 ug/l
 RT: 15.233 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VY015326.D
 Acq: 24 Aug 2023 20:48

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:128 Resp: 1494180

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.8	16.2
129	10.9	8.6	13.0

