

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY011224\
 Data File : VY016997.D
 Acq On : 12 Jan 2024 16:55
 Operator : SY/MD
 Sample : P1135-01
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

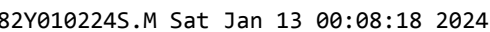
Instrument :
 MSVOA_Y
 ClientSampleId :

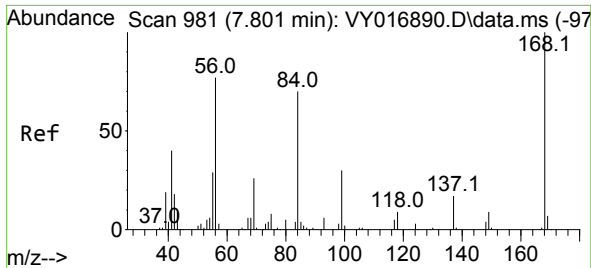
Quant Time: Jan 13 00:08:06 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y010224S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 02 14:25:32 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.807	168	110503	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.704	114	233237	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.502	117	228609	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	86733	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.155	65	49769	45.569	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	91.140%
35) Dibromofluoromethane	7.734	113	54285	36.524	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	73.040%
50) Toluene-d8	10.191	98	209741	40.981	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	81.960%
62) 4-Bromofluorobenzene	12.489	95	71585	41.456	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	82.920%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.912	85	20	Below Cal	#	40
11) Tert butyl alcohol	4.960	59	995	Below Cal	#	75
13) Acrolein	3.741	56	110	Below Cal	#	15
16) Acetone	3.960	43	7712	4.993	ug/l	100
17) Carbon Disulfide	4.210	76	6747	2.683	ug/l	95
20) Methylene Chloride	4.741	84	15348	4.327	ug/l	93
25) 2-Butanone	7.009	43	2738	Below Cal		97
31) Cyclohexane	7.801	56	2686	1.433	ug/l	# 1
36) 1,1-Dichloropropene	7.807	75	9833	4.540	ug/l	# 50
38) Carbon Tetrachloride	7.807	117	11191	5.085	ug/l	# 16
52) Toluene	10.258	92	19673	5.017	ug/l	100
67) Ethyl Benzene	11.605	91	206194	24.049	ug/l	97
68) m/p-Xylenes	11.709	106	203444	64.644	ug/l	100
69) o-Xylene	12.038	106	93413	31.662	ug/l	96
70) Styrene	12.057	104	17061	3.973	ug/l	# 15
73) Isopropylbenzene	12.343	105	137362	19.394	ug/l	86
74) N-amyl acetate	12.349	43	27563	19.370	ug/l	# 13
76) 1,2,3-Trichloropropane	12.745	75	3248	3.451	ug/l	# 100
78) n-propylbenzene	12.685	91	29850	3.467	ug/l	96
79) 2-Chlorotoluene	12.745	91	49550	10.378	ug/l	# 45
80) 1,3,5-Trimethylbenzene	12.825	105	435386	77.726	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.343	75	2778	6.702	ug/l	# 1
82) 4-Chlorotoluene	12.825	91	46686	9.571	ug/l	# 41
83) tert-Butylbenzene	13.130	119	134221	27.205	ug/l	# 63
84) 1,2,4-Trimethylbenzene	13.130	105	1133015	205.390	ug/l	98
85) sec-Butylbenzene	13.264	105	36240	4.957	ug/l	97
86) p-Isopropyltoluene	13.380	119	74845	12.405	ug/l	# 74
89) n-Butylbenzene	13.642	91	1546403	266.578	ug/l	# 44
90) Hexachloroethane	13.983	117	34174	26.359	ug/l	# 17
92) 1,2-Dibromo-3-Chloropr...	14.373	75	49989	276.235	ug/l	# 1

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

Quant Time: Jan 13 00:08:06 2024
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Quant Title : SW846 8260
QLast Update : Tue Jan 02 14:25:32 2024
Response via : Initial Calibration

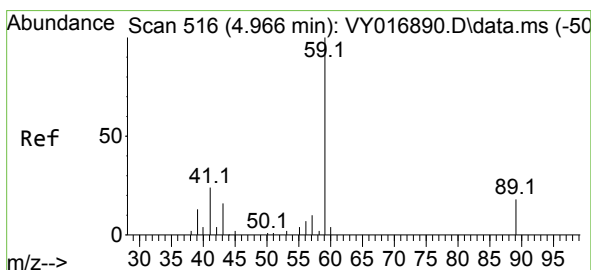
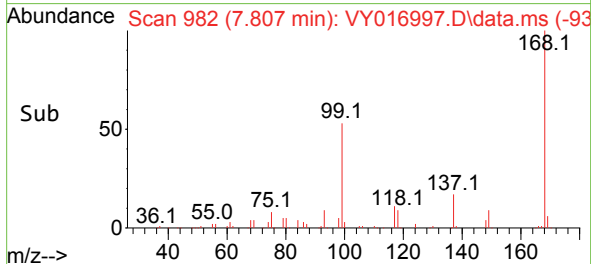
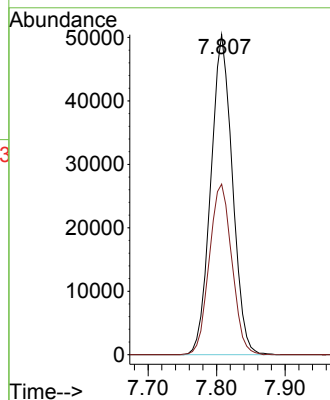
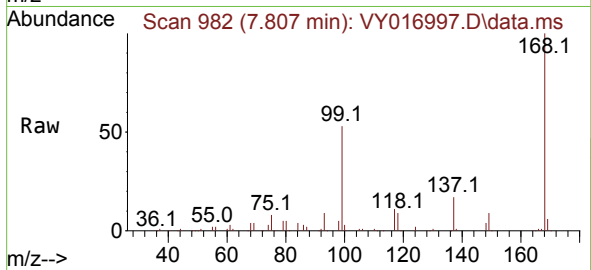




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.807 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY016997.D
Acq: 12 Jan 2024 16:55

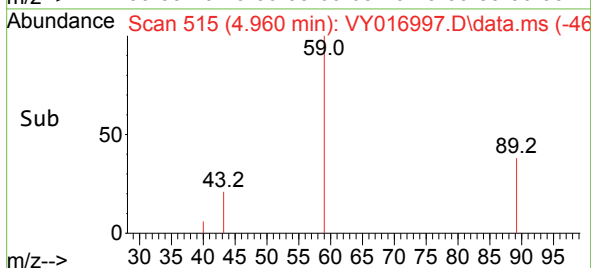
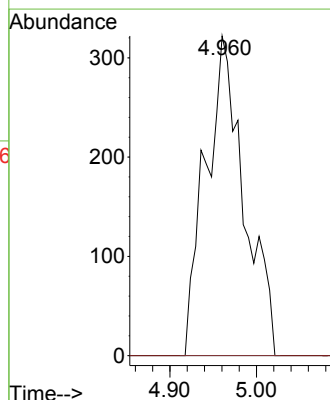
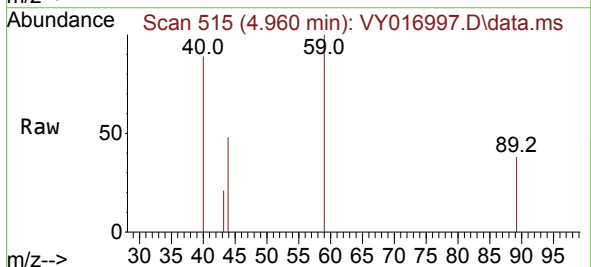
Instrument :
MSVOA_Y
ClientSampleId :

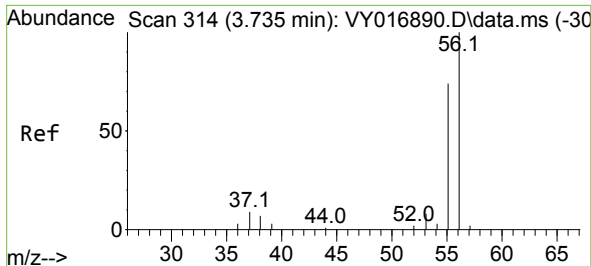
Tgt Ion:168 Resp: 110503
Ion Ratio Lower Upper
168 100
99 53.3 44.2 66.4



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.960 min Scan# 515
Delta R.T. -0.006 min
Lab File: VY016997.D
Acq: 12 Jan 2024 16:55

Tgt Ion: 59 Resp: 995
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.0#





#13

Acrolein

Concen: Below Cal

RT: 3.741 min Scan# 314

Delta R.T. 0.000 min

Lab File: VY016997.D

Acq: 12 Jan 2024 16:55

Instrument :

MSVOA_Y

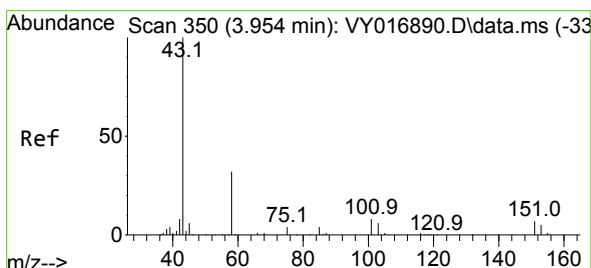
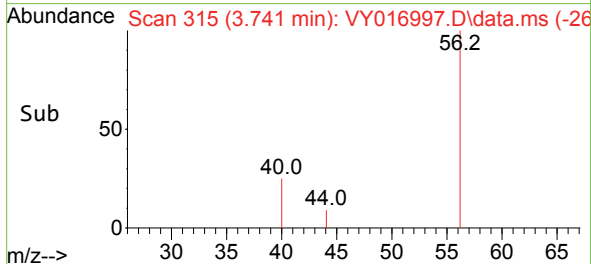
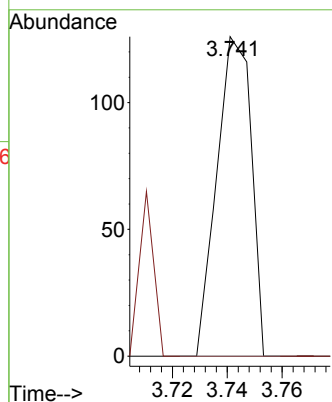
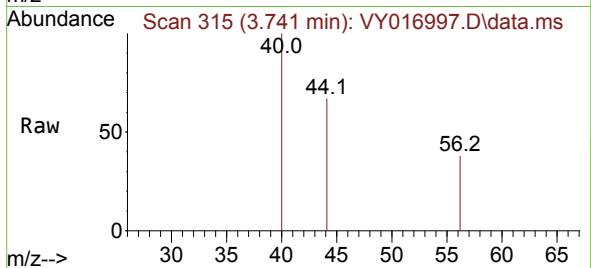
ClientSampleId :

Tgt Ion: 56 Resp: 110

Ion Ratio Lower Upper

56 100

55 0.0 55.4 83.0#



#16

Acetone

Concen: 4.993 ug/l

RT: 3.960 min Scan# 351

Delta R.T. 0.000 min

Lab File: VY016997.D

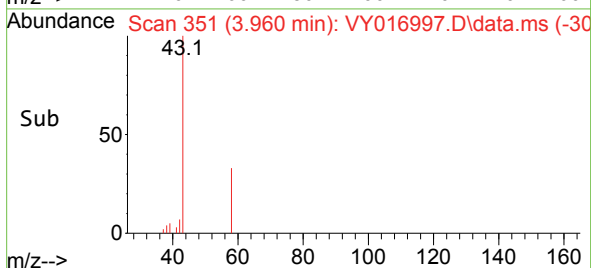
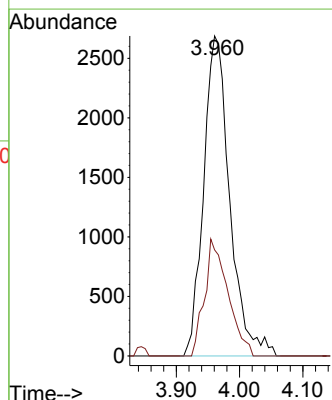
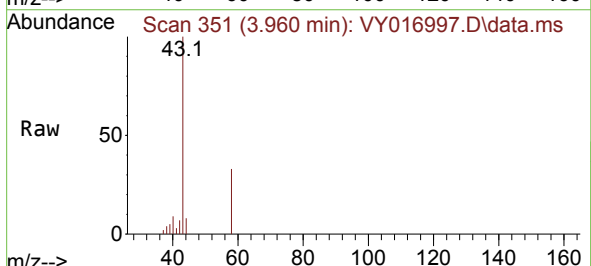
Acq: 12 Jan 2024 16:55

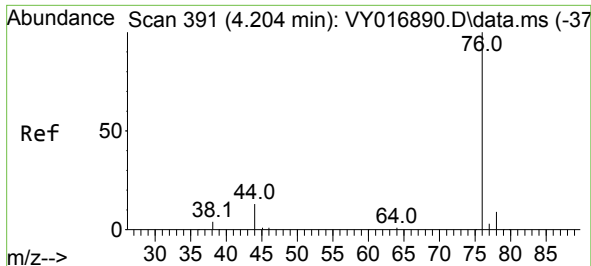
Tgt Ion: 43 Resp: 7712

Ion Ratio Lower Upper

43 100

58 33.1 26.6 39.8





#17

Carbon Disulfide

Concen: 2.683 ug/l

RT: 4.210 min Scan# 391

Delta R.T. 0.000 min

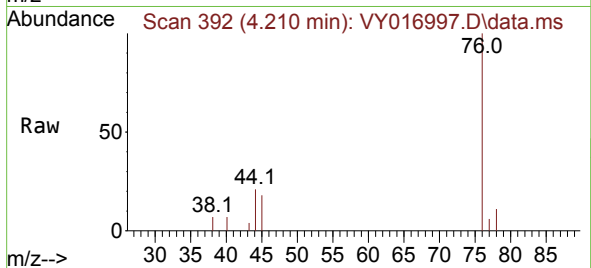
Lab File: VY016997.D

Acq: 12 Jan 2024 16:55

Instrument :

MSVOA_Y

ClientSampleId :

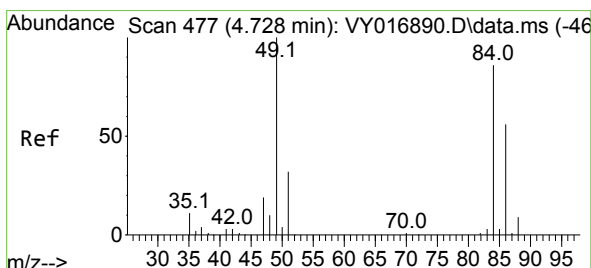
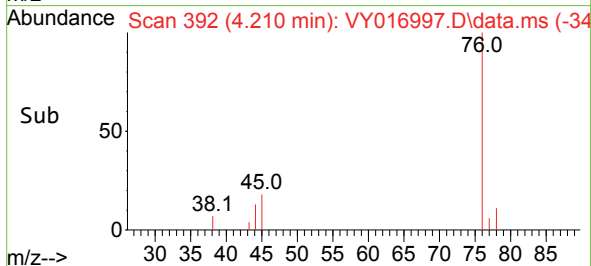
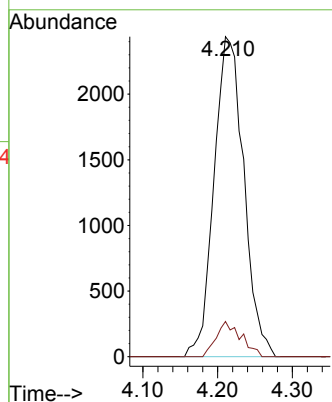


Tgt Ion: 76 Resp: 6747

Ion Ratio Lower Upper

76 100

78 11.0 7.4 11.0



#20

Methylene Chloride

Concen: 4.327 ug/l

RT: 4.741 min Scan# 479

Delta R.T. 0.007 min

Lab File: VY016997.D

Acq: 12 Jan 2024 16:55

Tgt Ion: 84 Resp: 15348

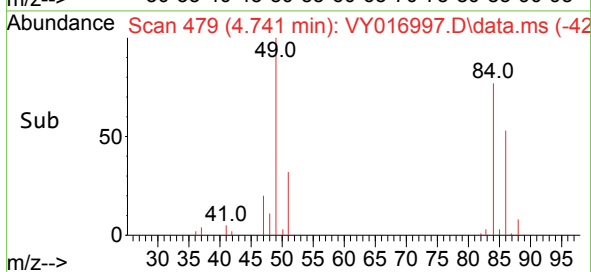
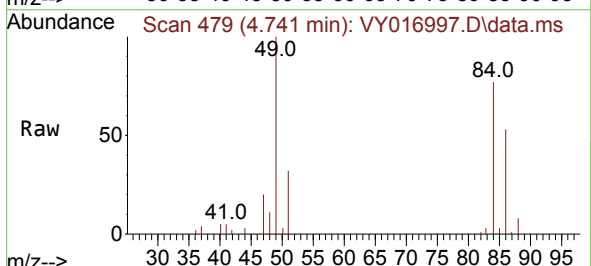
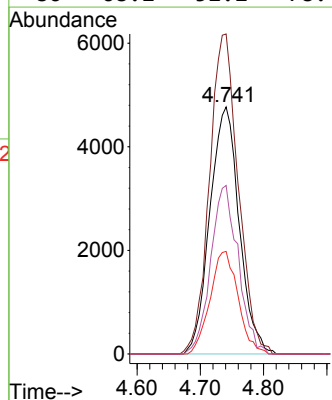
Ion Ratio Lower Upper

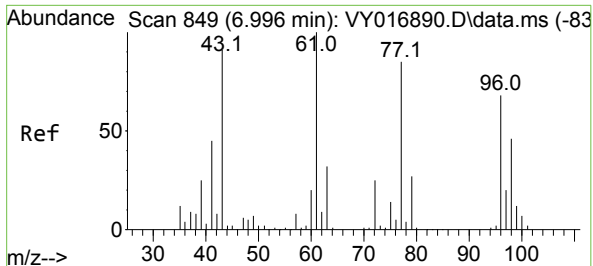
84 100

49 129.5 95.2 142.8

51 41.5 29.9 44.9

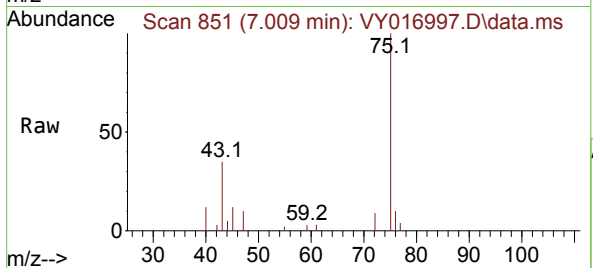
86 68.2 52.2 78.4



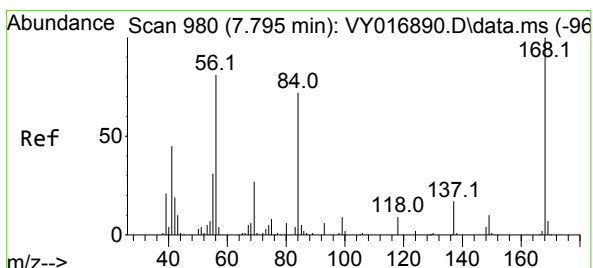
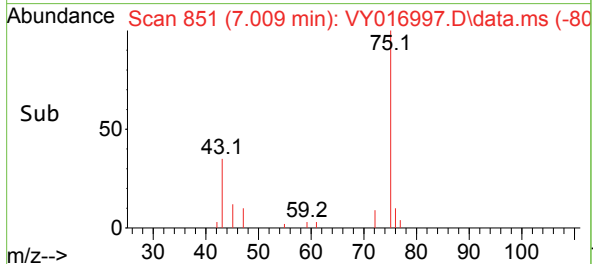
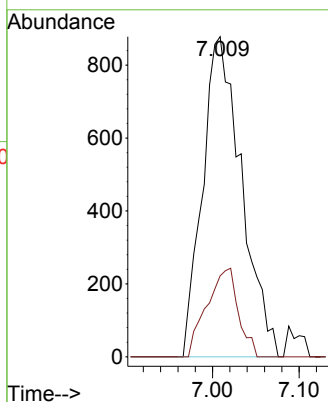


#25
2-Butanone
Concen: Below Cal
RT: 7.009 min Scan# 81
Delta R.T. 0.013 min
Lab File: VY016997.D
Acq: 12 Jan 2024 16:55

Instrument :
MSVOA_Y
ClientSampleId :

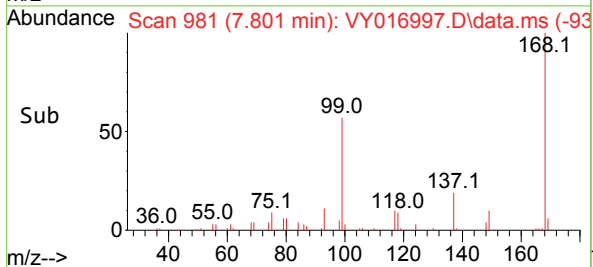
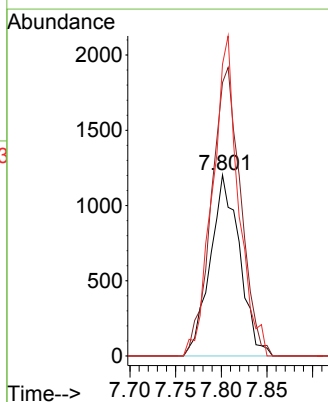
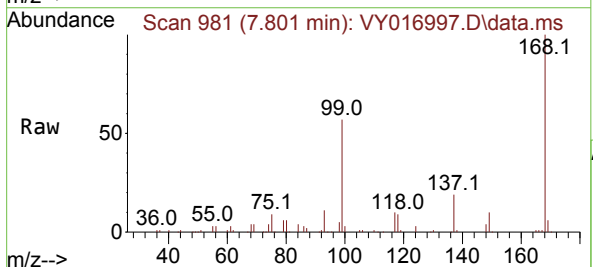


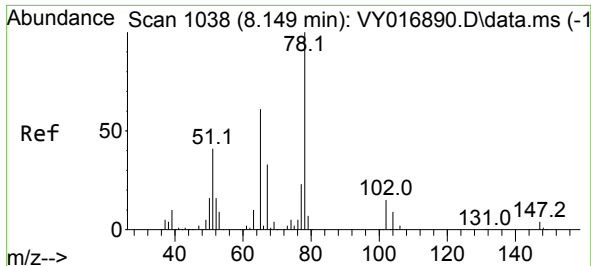
Tgt Ion: 43 Resp: 2738
Ion Ratio Lower Upper
43 100
72 25.3 21.4 32.2



#31
Cyclohexane
Concen: 1.433 ug/l
RT: 7.801 min Scan# 981
Delta R.T. 0.000 min
Lab File: VY016997.D
Acq: 12 Jan 2024 16:55

Tgt Ion: 56 Resp: 2686
Ion Ratio Lower Upper
56 100
69 151.1 27.0 40.6#
84 161.3 71.8 107.6#





#33

1,2-Dichloroethane-d4

Concen: 45.569 ug/l

RT: 8.155 min Scan# 110

Delta R.T. -0.000 min

Lab File: VY016997.D

Acq: 12 Jan 2024 16:55

Instrument :

MSVOA_Y

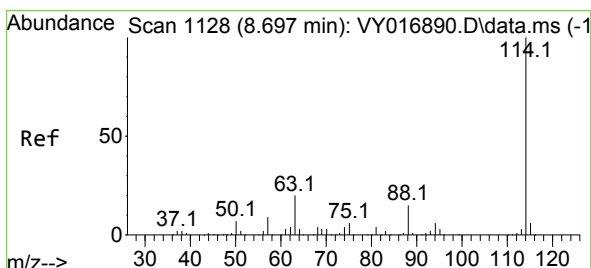
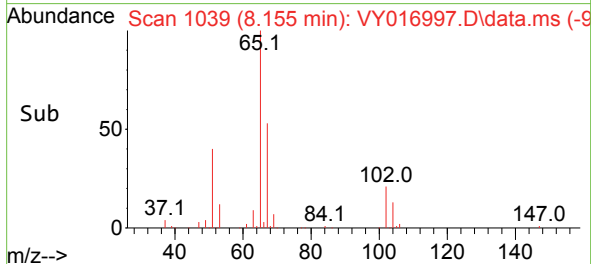
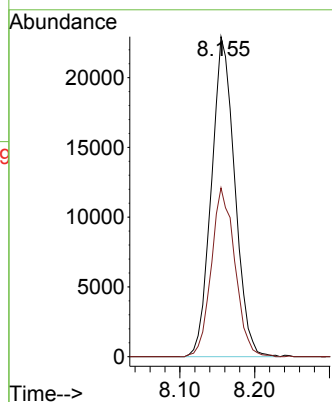
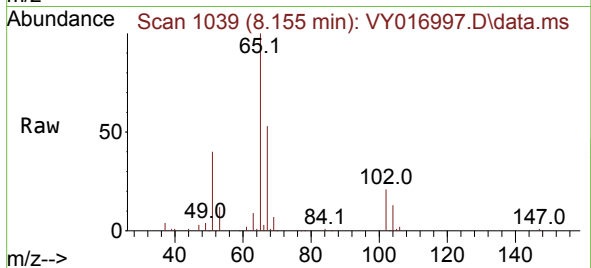
ClientSampleId :

Tgt Ion: 65 Resp: 49769

Ion Ratio Lower Upper

65 100

67 53.3 0.0 109.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.704 min Scan# 1129

Delta R.T. 0.001 min

Lab File: VY016997.D

Acq: 12 Jan 2024 16:55

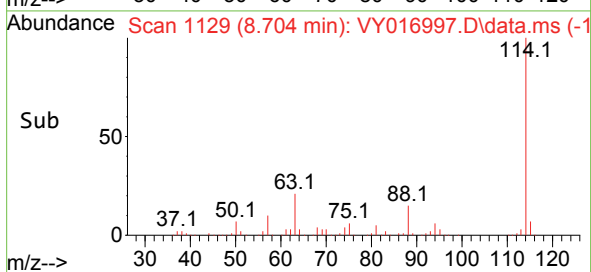
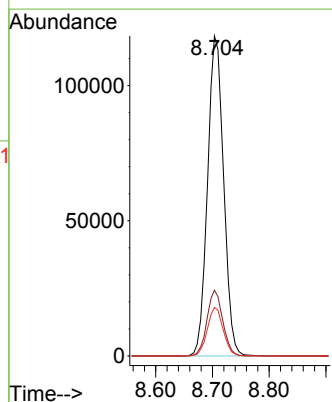
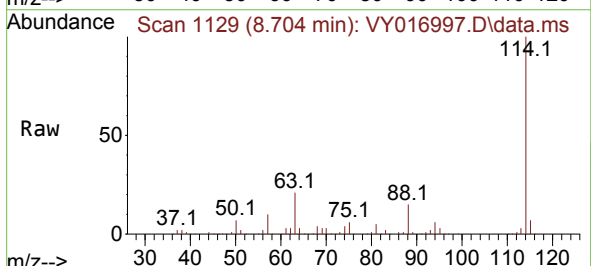
Tgt Ion: 114 Resp: 233237

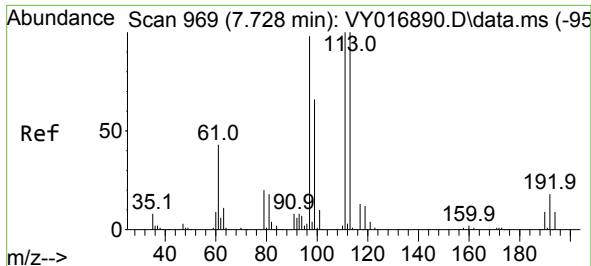
Ion Ratio Lower Upper

114 100

63 20.6 0.0 37.4

88 15.1 0.0 29.0

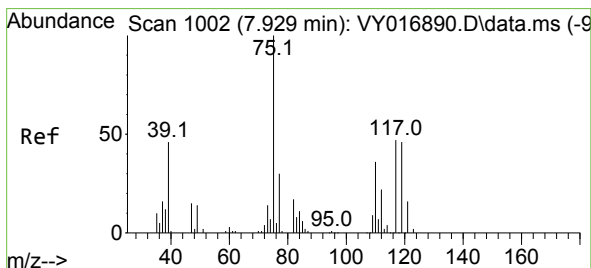
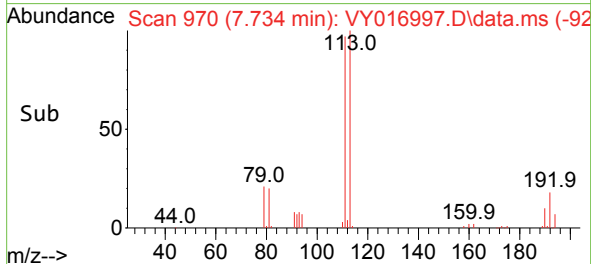
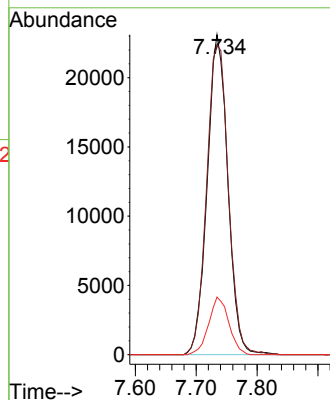
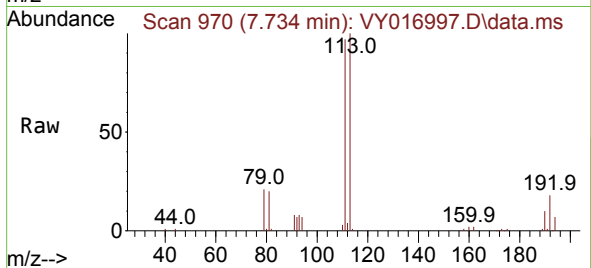




#35
Dibromofluoromethane
Concen: 36.524 ug/l
RT: 7.734 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY016997.D
Acq: 12 Jan 2024 16:55

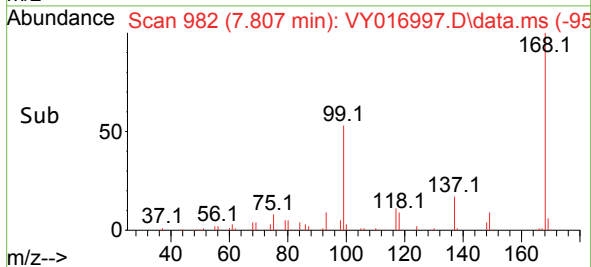
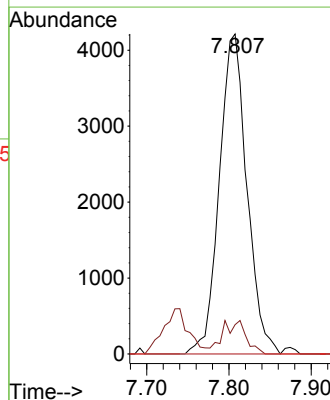
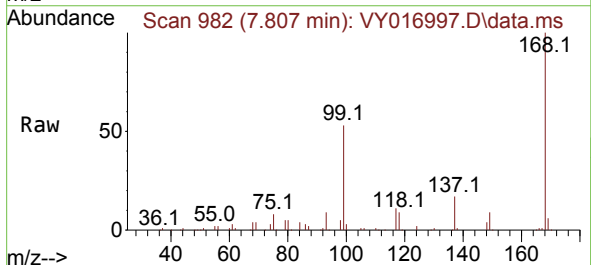
Instrument :
MSVOA_Y
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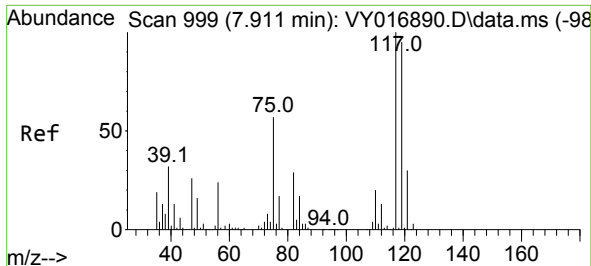
Tgt Ion:113 Resp: 54285
Ion Ratio Lower Upper
113 100
111 102.4 83.8 125.6
192 17.7 14.5 21.7



#36
1,1-Dichloropropene
Concen: 4.540 ug/l
RT: 7.807 min Scan# 982
Delta R.T. -0.122 min
Lab File: VY016997.D
Acq: 12 Jan 2024 16:55

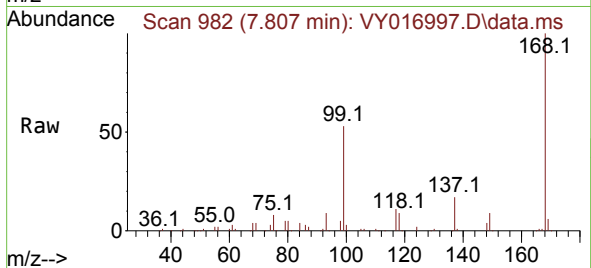
Tgt Ion: 75 Resp: 9833
Ion Ratio Lower Upper
75 100
110 8.7 17.4 52.3#
77 0.0 24.7 37.1#



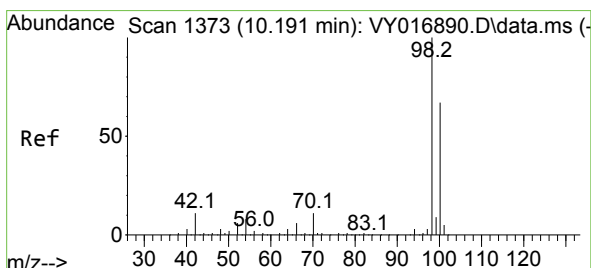
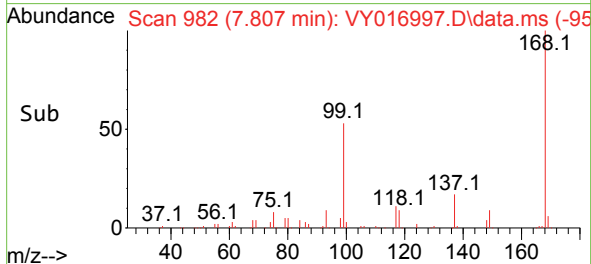
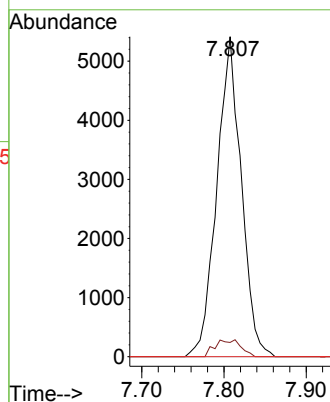


#38
Carbon Tetrachloride
Concen: 5.085 ug/l
RT: 7.807 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY016997.D
Acq: 12 Jan 2024 16:55

Instrument :
MSVOA_Y
ClientSampleId :

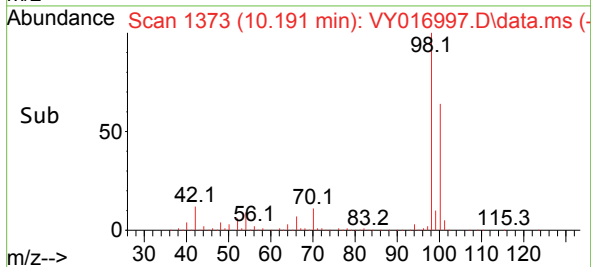
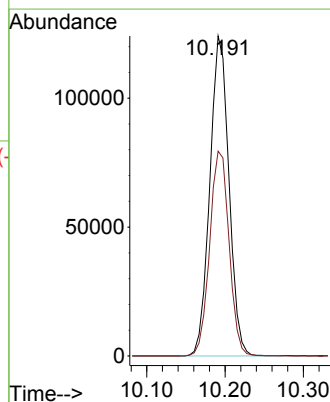
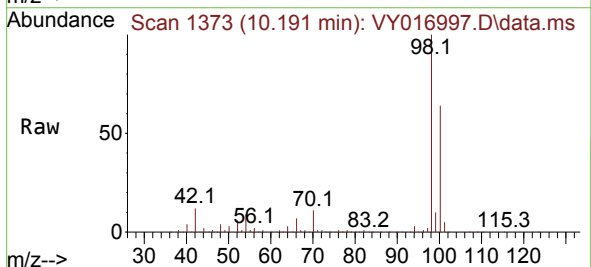


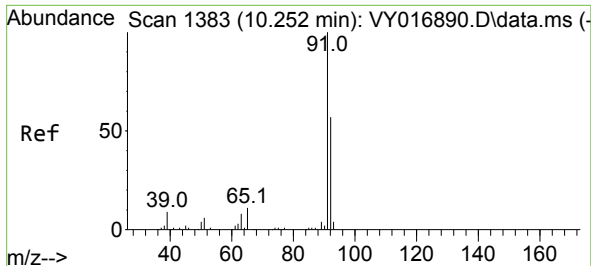
Tgt Ion:117 Resp: 11191
Ion Ratio Lower Upper
117 100
119 4.5 76.0 114.0#
121 0.0 24.2 36.2#



#50
Toluene-d8
Concen: 40.981 ug/l
RT: 10.191 min Scan# 1373
Delta R.T. 0.000 min
Lab File: VY016997.D
Acq: 12 Jan 2024 16:55

Tgt Ion: 98 Resp: 209741
Ion Ratio Lower Upper
98 100
100 65.1 52.3 78.5

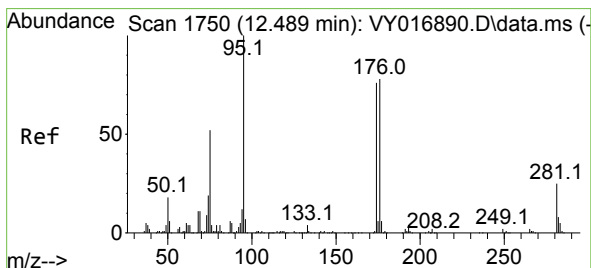
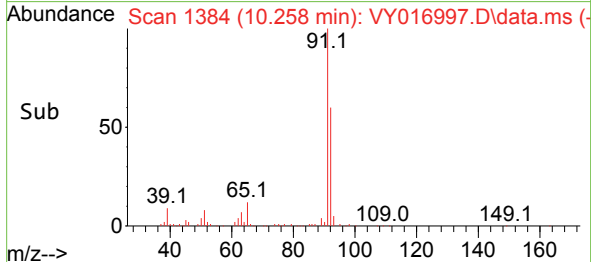
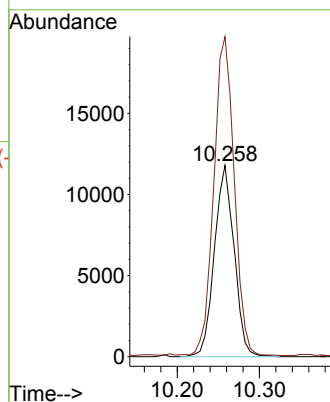
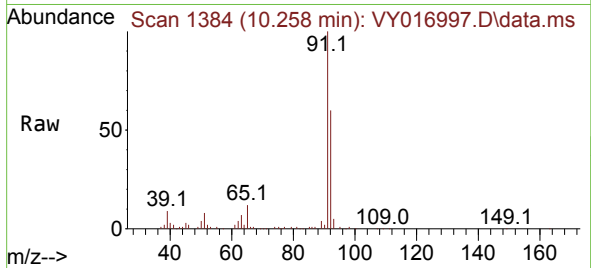




#52
Toluene
Concen: 5.017 ug/l
RT: 10.258 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY016997.D
Acq: 12 Jan 2024 16:55

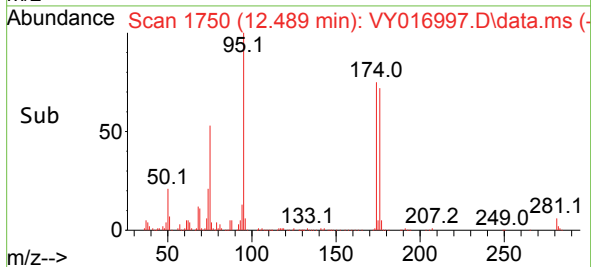
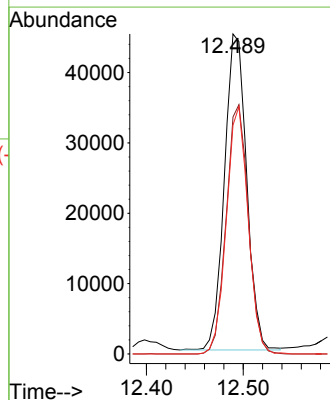
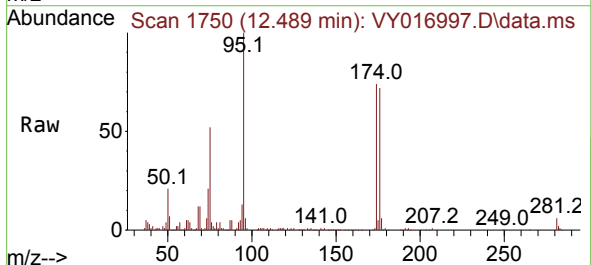
Instrument :
MSVOA_Y
ClientSampleId :

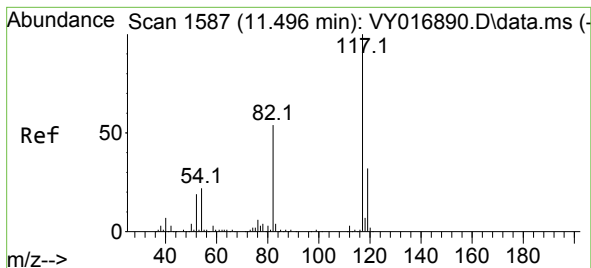
Tgt Ion: 92 Resp: 19673
Ion Ratio Lower Upper
92 100
91 172.0 137.6 206.4



#62
4-Bromofluorobenzene
Concen: 41.456 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VY016997.D
Acq: 12 Jan 2024 16:55

Tgt Ion: 95 Resp: 71585
Ion Ratio Lower Upper
95 100
174 78.6 0.0 160.0
176 76.4 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.502 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY016997.D

Acq: 12 Jan 2024 16:55

Instrument :

MSVOA_Y

ClientSampleId :

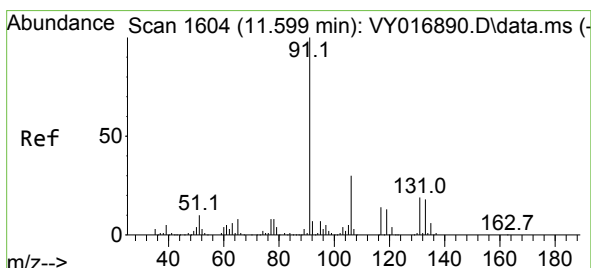
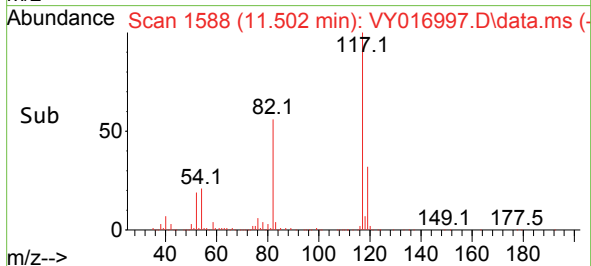
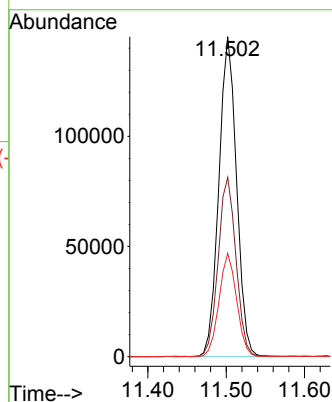
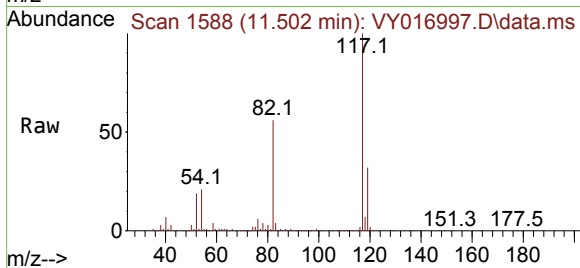
Tgt Ion:117 Resp: 228609

Ion Ratio Lower Upper

117 100

82 55.9 43.8 65.8

119 32.3 26.5 39.7



#67

Ethyl Benzene

Concen: 24.049 ug/l

RT: 11.605 min Scan# 1605

Delta R.T. 0.006 min

Lab File: VY016997.D

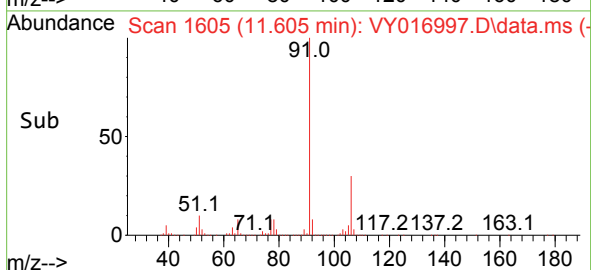
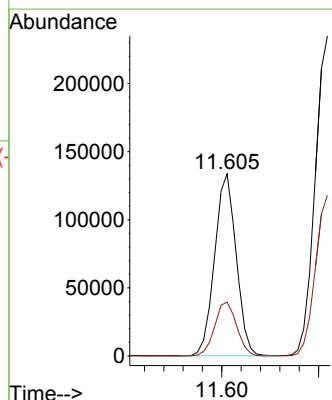
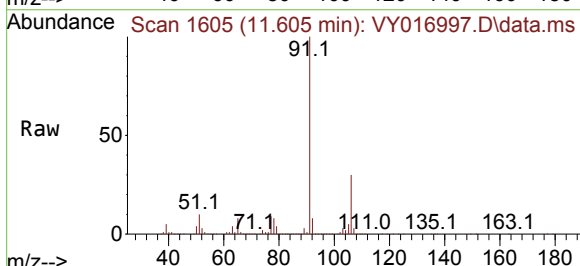
Acq: 12 Jan 2024 16:55

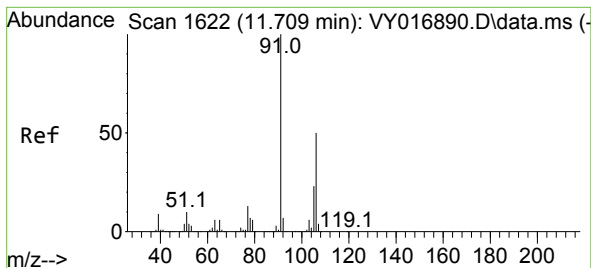
Tgt Ion: 91 Resp: 206194

Ion Ratio Lower Upper

91 100

106 29.6 25.0 37.4

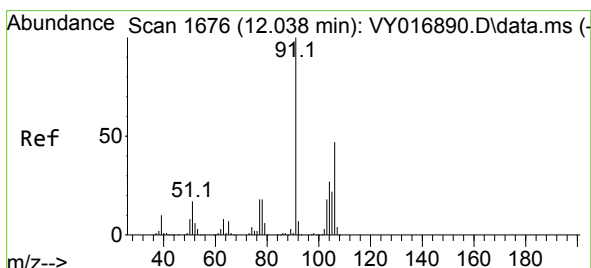
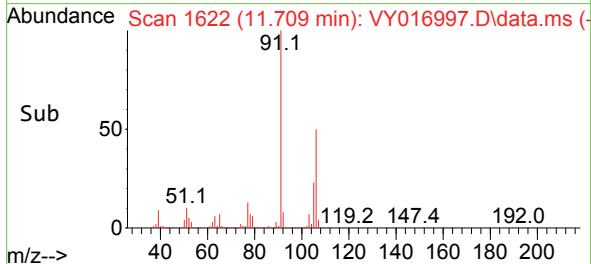
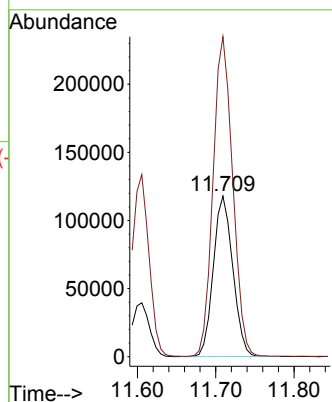
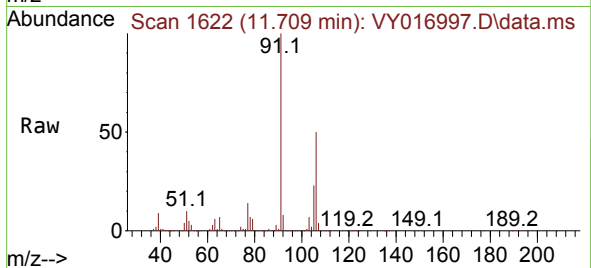




#68
m/p-Xylenes
Concen: 64.644 ug/l
RT: 11.709 min Scan# 1622
Delta R.T. 0.000 min
Lab File: VY016997.D
Acq: 12 Jan 2024 16:55

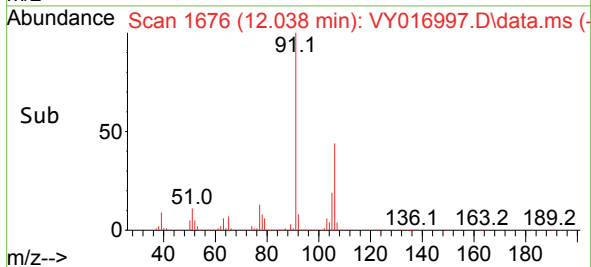
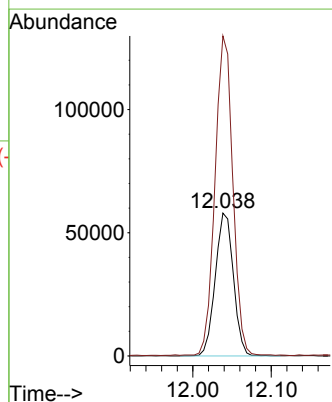
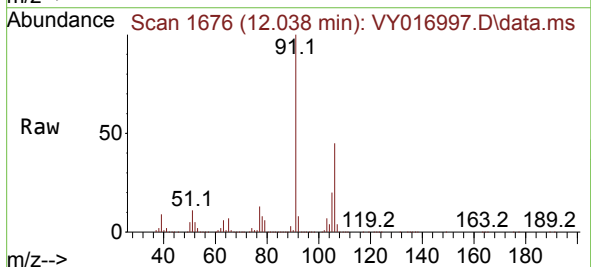
Instrument :
MSVOA_Y
ClientSampleId :

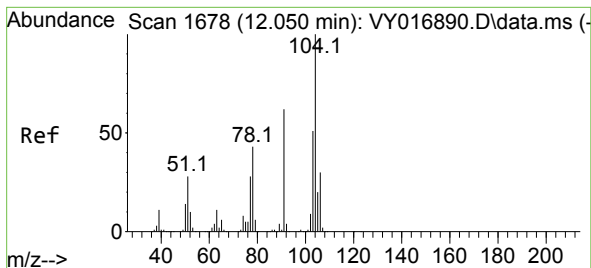
Tgt Ion:106 Resp: 203444
Ion Ratio Lower Upper
106 100
91 201.2 160.7 241.1



#69
o-Xylene
Concen: 31.662 ug/l
RT: 12.038 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VY016997.D
Acq: 12 Jan 2024 16:55

Tgt Ion:106 Resp: 93413
Ion Ratio Lower Upper
106 100
91 219.7 106.5 319.5





#70

Styrene

Concen: 3.973 ug/l

RT: 12.057 min Scan# 1

Delta R.T. 0.007 min

Lab File: VY016997.D

Acq: 12 Jan 2024 16:55

Instrument :

MSVOA_Y

ClientSampleId :

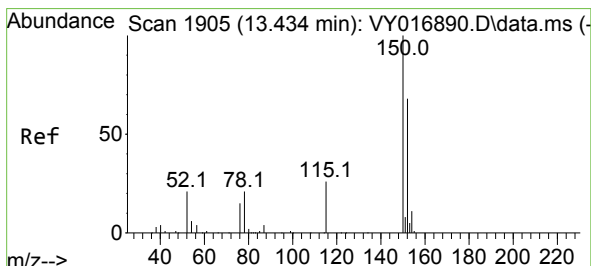
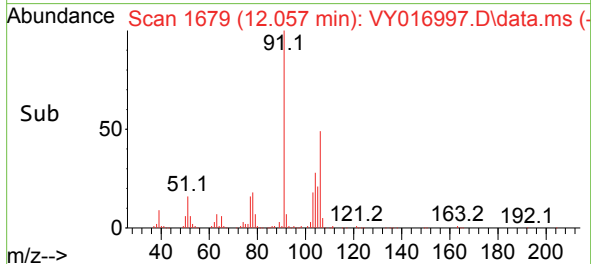
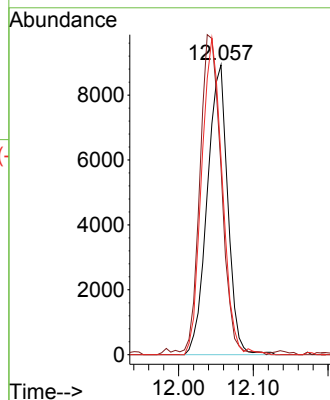
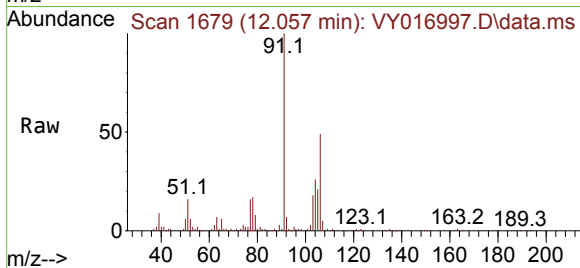
Tgt Ion:104 Resp: 17061

Ion Ratio Lower Upper

104 100

78 114.4 39.2 58.8#

103 109.4 43.8 65.6#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1905

Delta R.T. 0.000 min

Lab File: VY016997.D

Acq: 12 Jan 2024 16:55

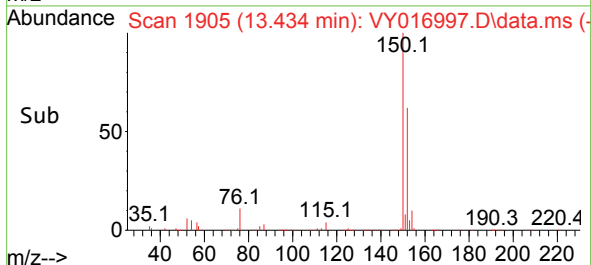
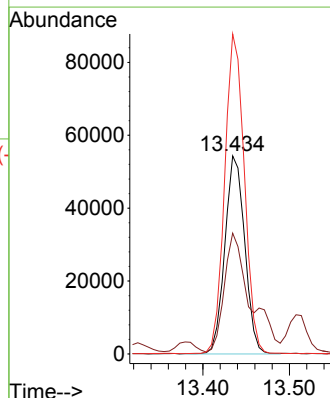
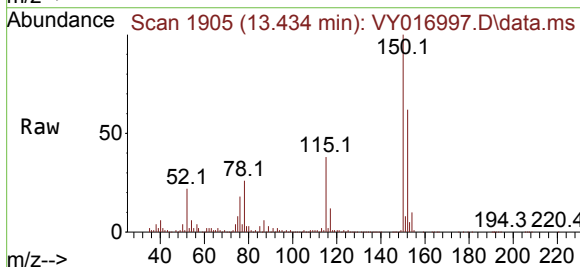
Tgt Ion:152 Resp: 86733

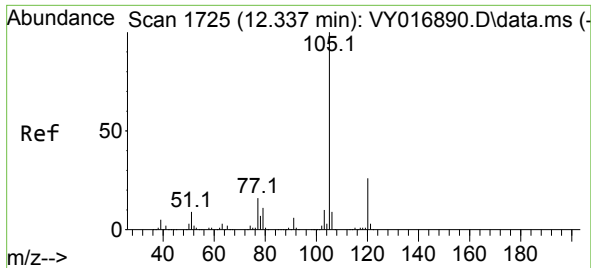
Ion Ratio Lower Upper

152 100

115 0.0 30.0 90.0#

150 159.5 0.0 344.6

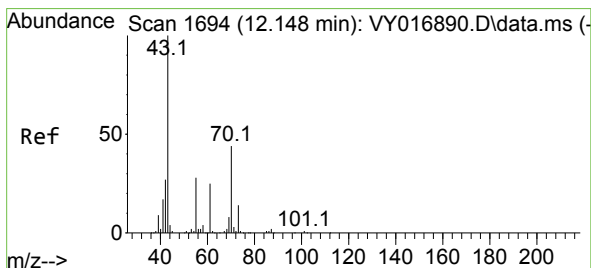
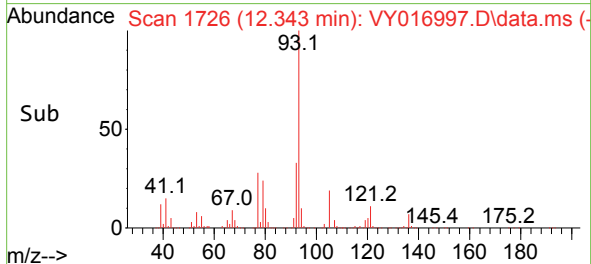
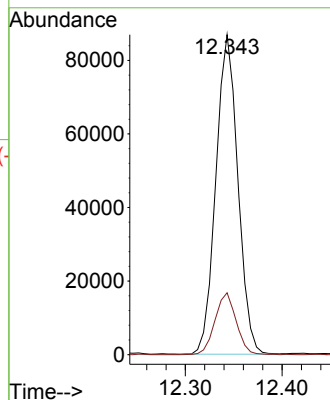
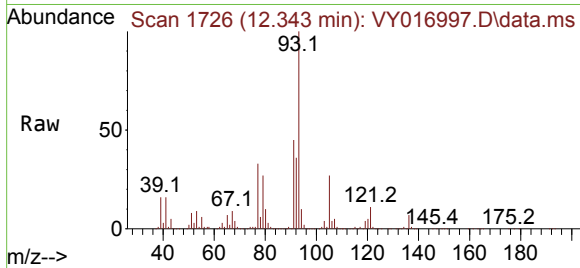




#73
Isopropylbenzene
Concen: 19.394 ug/l
RT: 12.343 min Scan# 1725
Delta R.T. 0.006 min
Lab File: VY016997.D
Acq: 12 Jan 2024 16:55

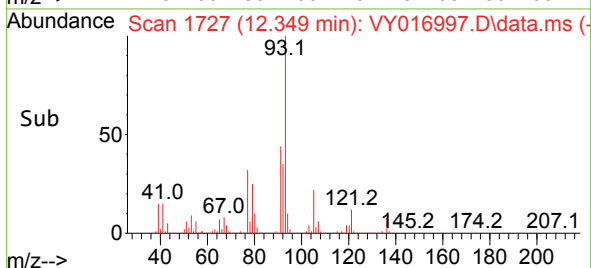
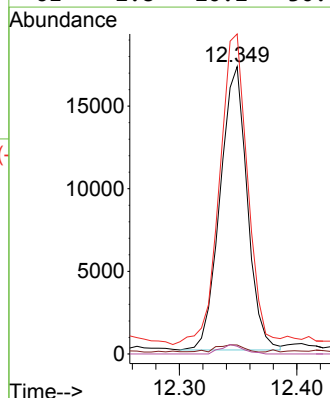
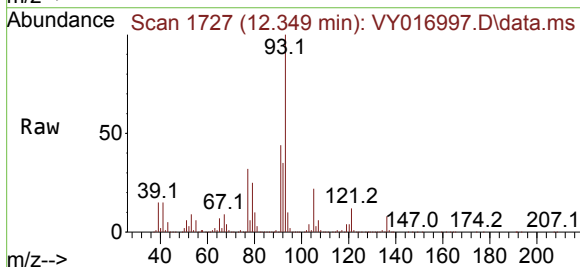
Instrument :
MSVOA_Y
ClientSampleId :

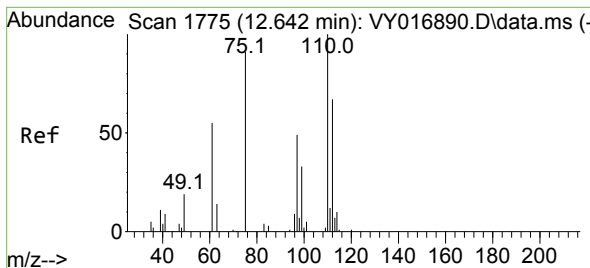
Tgt Ion:105 Resp: 137362
Ion Ratio Lower Upper
105 100
120 18.7 13.0 39.0



#74
N-ethyl acetate
Concen: 19.370 ug/l
RT: 12.349 min Scan# 1727
Delta R.T. 0.195 min
Lab File: VY016997.D
Acq: 12 Jan 2024 16:55

Tgt Ion: 43 Resp: 27563
Ion Ratio Lower Upper
43 100
70 2.7 36.6 55.0#
55 113.0 22.2 33.4#
61 2.8 20.2 30.4#





#76

1,2,3-Trichloropropane

Concen: 3.451 ug/l

RT: 12.745 min Scan# 1792

Delta R.T. 0.103 min

Lab File: VY016997.D

Acq: 12 Jan 2024 16:55

Instrument :

MSVOA_Y

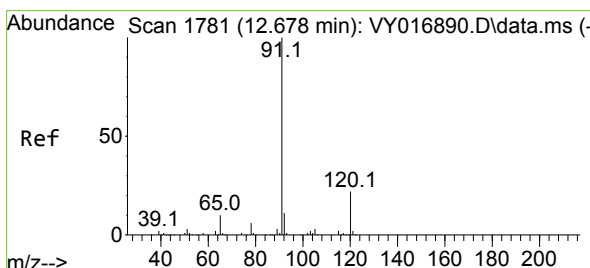
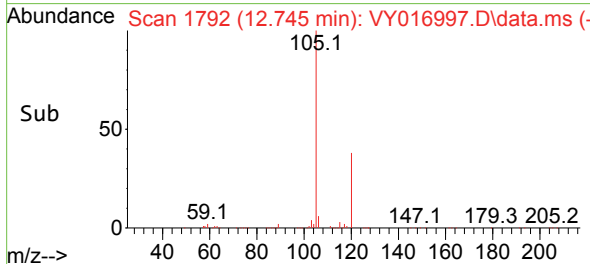
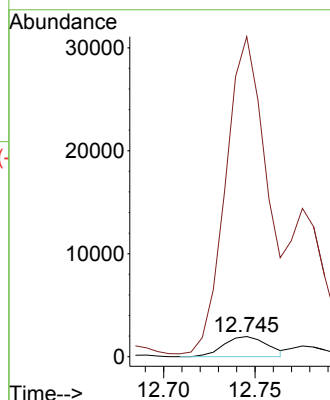
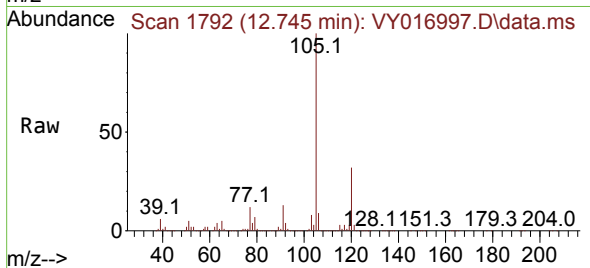
ClientSampleId :

Tgt Ion: 75 Resp: 3248

Ion Ratio Lower Upper

75 100

77 1468.2 0.0 0.0#



#78

n-propylbenzene

Concen: 3.467 ug/l

RT: 12.685 min Scan# 1782

Delta R.T. 0.007 min

Lab File: VY016997.D

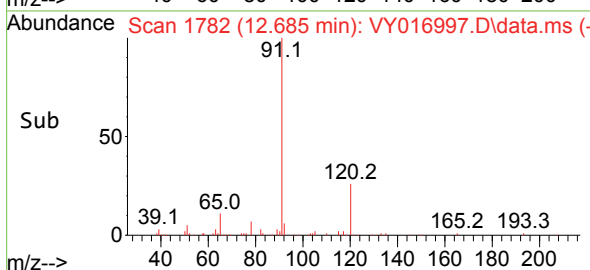
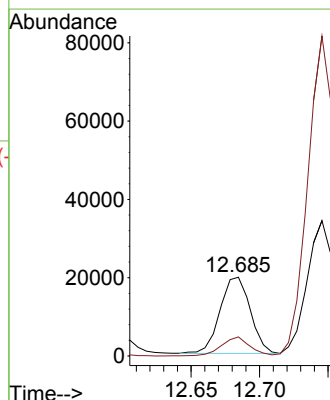
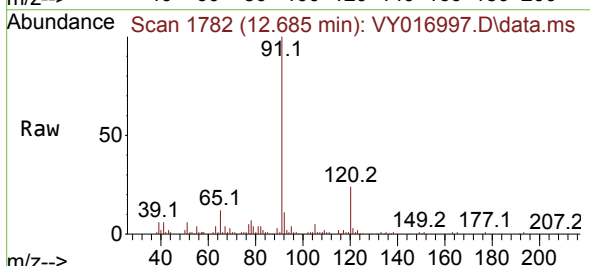
Acq: 12 Jan 2024 16:55

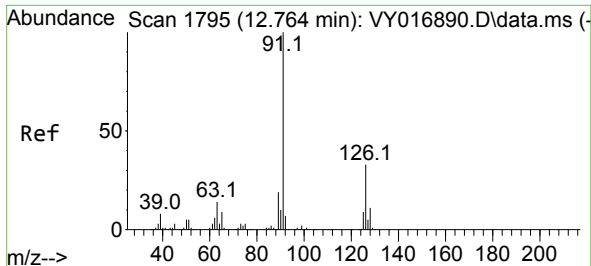
Tgt Ion: 91 Resp: 29850

Ion Ratio Lower Upper

91 100

120 23.8 11.0 33.0

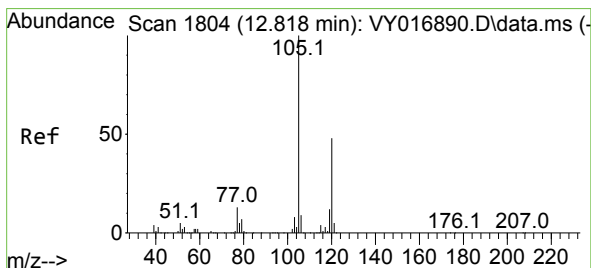
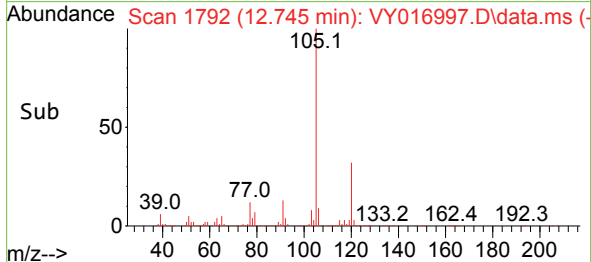
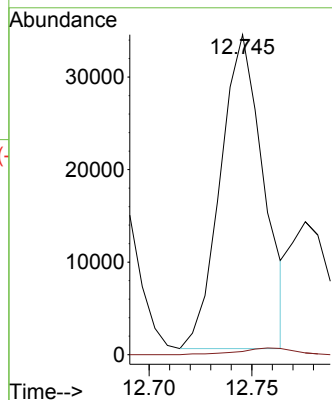
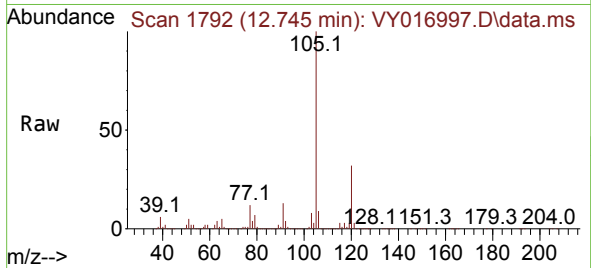




#79
2-Chlorotoluene
Concen: 10.378 ug/l
RT: 12.745 min Scan# 11
Delta R.T. -0.018 min
Lab File: VY016997.D
Acq: 12 Jan 2024 16:55

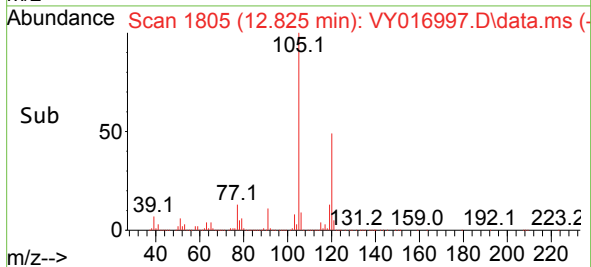
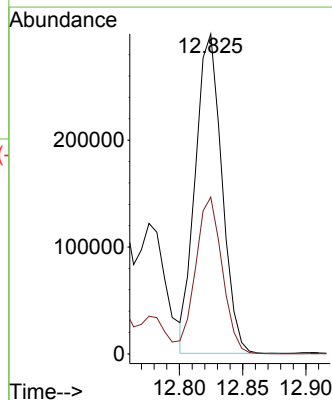
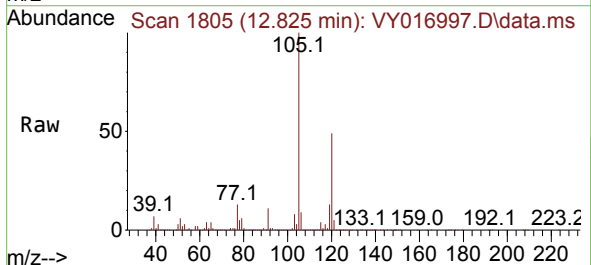
Instrument :
MSVOA_Y
ClientSampleId :

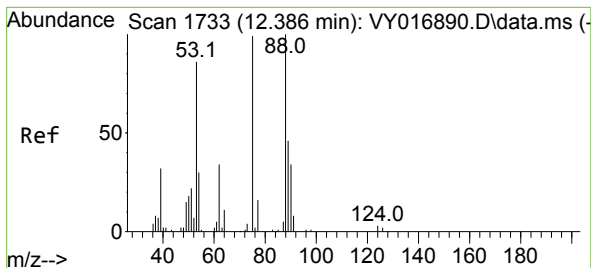
Tgt Ion: 91 Resp: 49550
Ion Ratio Lower Upper
91 100
126 2.7 17.0 51.0#



#80
1,3,5-Trimethylbenzene
Concen: 77.726 ug/l
RT: 12.825 min Scan# 1805
Delta R.T. 0.007 min
Lab File: VY016997.D
Acq: 12 Jan 2024 16:55

Tgt Ion:105 Resp: 435386
Ion Ratio Lower Upper
105 100
120 49.9 24.3 72.8

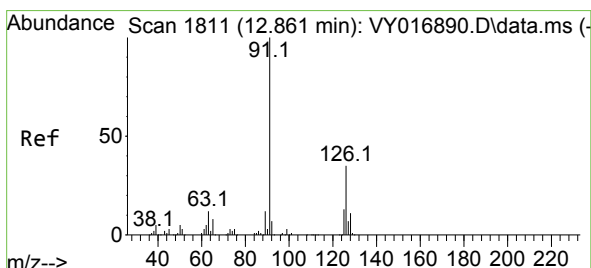
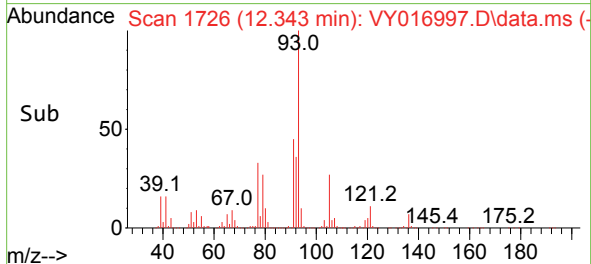
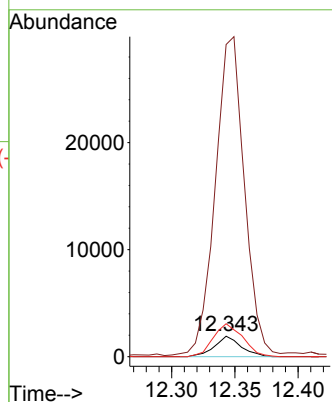
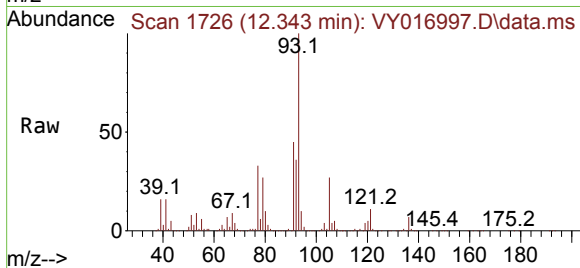




#81
trans-1,4-Dichloro-2-butene
Concen: 6.702 ug/l
RT: 12.343 min Scan# 11
Delta R.T. -0.042 min
Lab File: VY016997.D
Acq: 12 Jan 2024 16:55

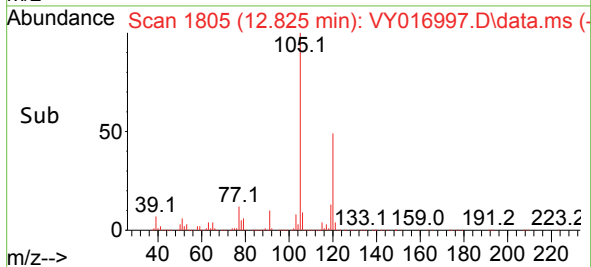
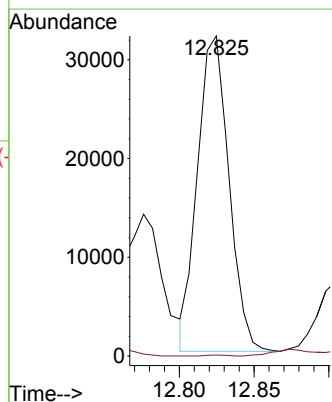
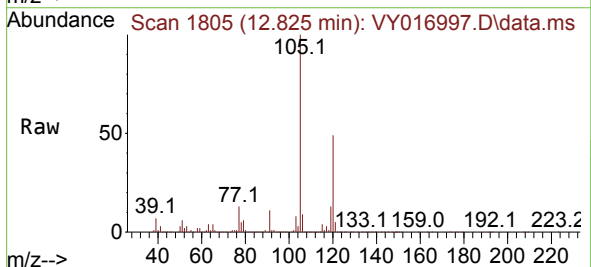
Instrument :
MSVOA_Y
ClientSampleId :

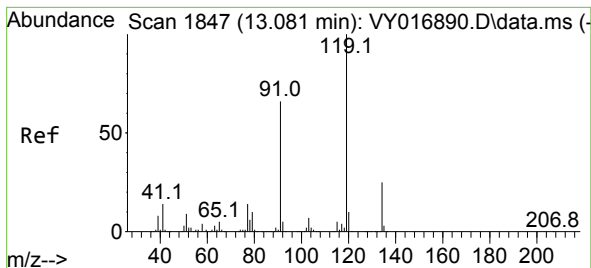
Tgt Ion: 75 Resp: 2778
Ion Ratio Lower Upper
75 100
53 1717.7 74.0 111.0#
89 180.8 36.5 54.7#



#82
4-Chlorotoluene
Concen: 9.571 ug/l
RT: 12.825 min Scan# 1805
Delta R.T. -0.036 min
Lab File: VY016997.D
Acq: 12 Jan 2024 16:55

Tgt Ion: 91 Resp: 46686
Ion Ratio Lower Upper
91 100
126 0.0 17.1 51.2#





#83

tert-Butylbenzene

Concen: 27.205 ug/l

RT: 13.130 min Scan# 1855

Delta R.T. 0.043 min

Lab File: VY016997.D

Acq: 12 Jan 2024 16:55

Instrument :

MSVOA_Y

ClientSampleId :

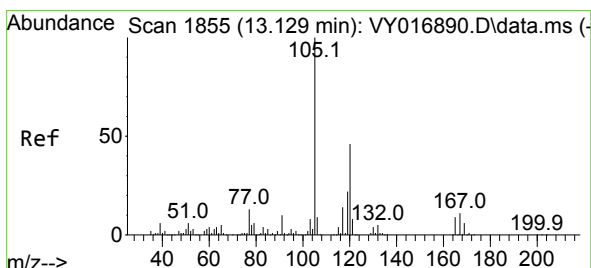
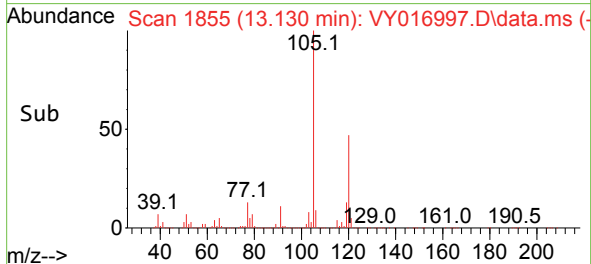
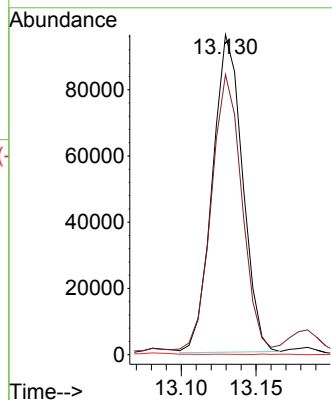
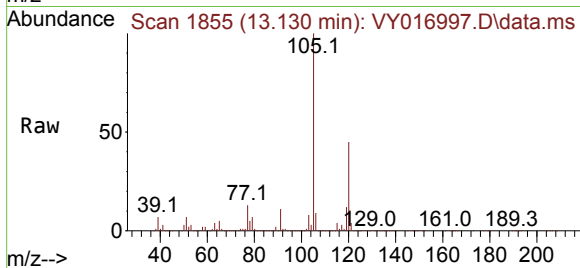
Tgt Ion:119 Resp: 134221

Ion Ratio Lower Upper

119 100

91 86.8 31.5 94.5

134 0.0 13.1 39.3#



#84

1,2,4-Trimethylbenzene

Concen: 205.390 ug/l

RT: 13.130 min Scan# 1855

Delta R.T. 0.001 min

Lab File: VY016997.D

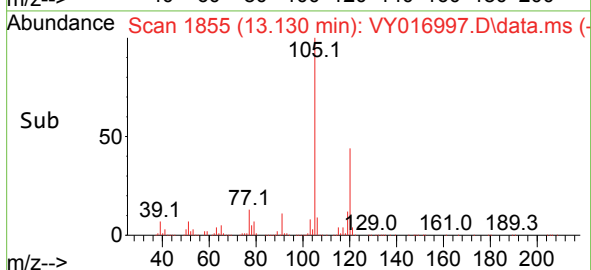
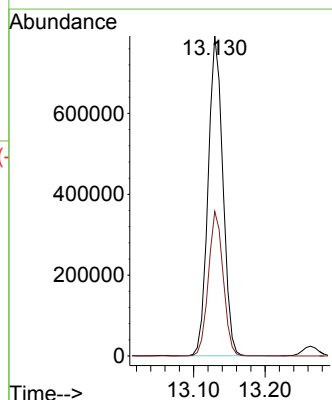
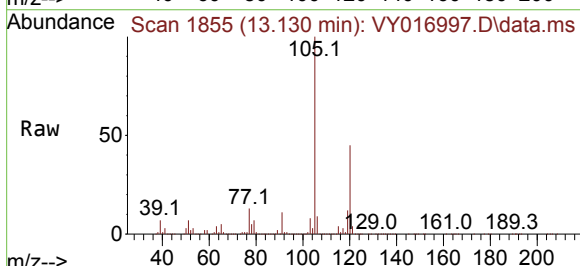
Acq: 12 Jan 2024 16:55

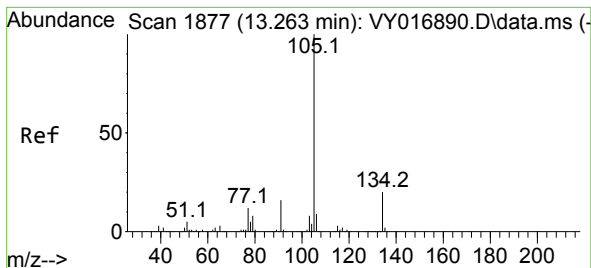
Tgt Ion:105 Resp: 1133015

Ion Ratio Lower Upper

105 100

120 45.3 22.1 66.3





#85

sec-Butylbenzene

Concen: 4.957 ug/l

RT: 13.264 min Scan# 1877

Delta R.T. 0.001 min

Lab File: VY016997.D

Acq: 12 Jan 2024 16:55

Instrument :

MSVOA_Y

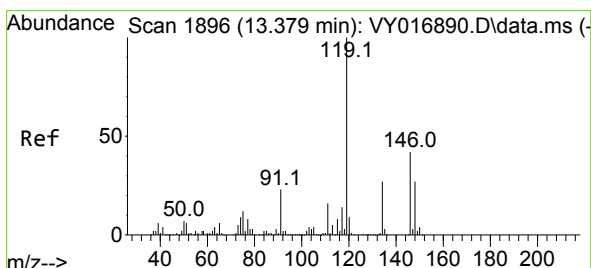
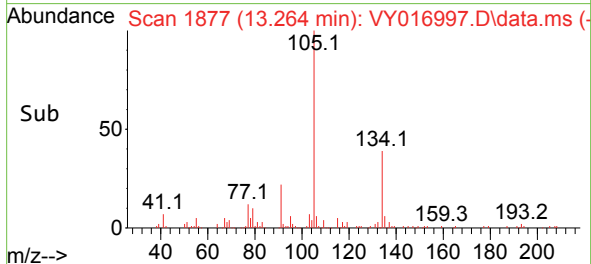
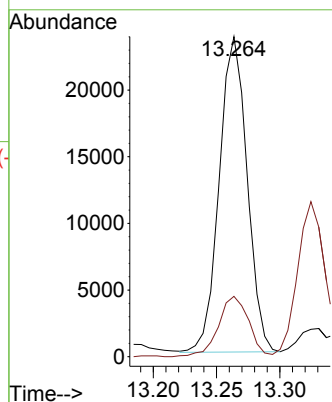
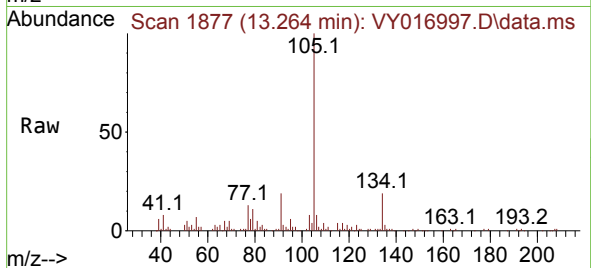
ClientSampleId :

Tgt Ion:105 Resp: 36240

Ion Ratio Lower Upper

105 100

134 20.8 9.7 28.9



#86

p-Isopropyltoluene

Concen: 12.405 ug/l

RT: 13.380 min Scan# 1896

Delta R.T. 0.001 min

Lab File: VY016997.D

Acq: 12 Jan 2024 16:55

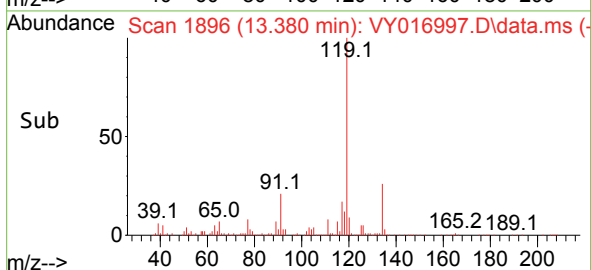
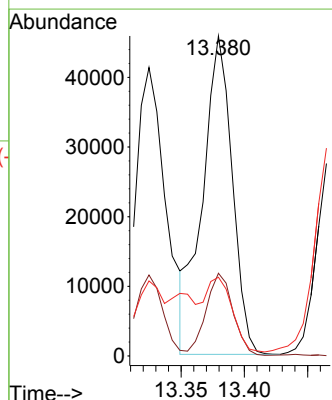
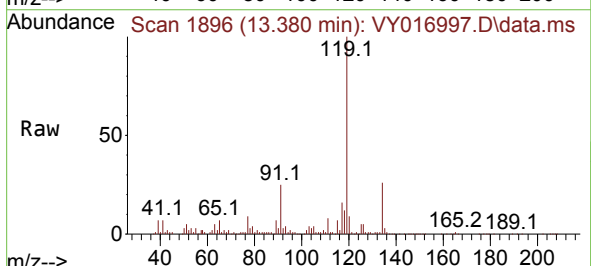
Tgt Ion:119 Resp: 74845

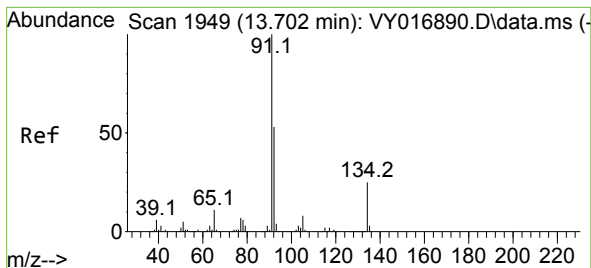
Ion Ratio Lower Upper

119 100

134 23.1 13.1 39.1

91 0.0 11.7 35.0#





#89

n-Butylbenzene

Concen: 266.578 ug/l

RT: 13.642 min Scan# 1939

Delta R.T. -0.060 min

Lab File: VY016997.D

Acq: 12 Jan 2024 16:55

Instrument :

MSVOA_Y

ClientSampleId :

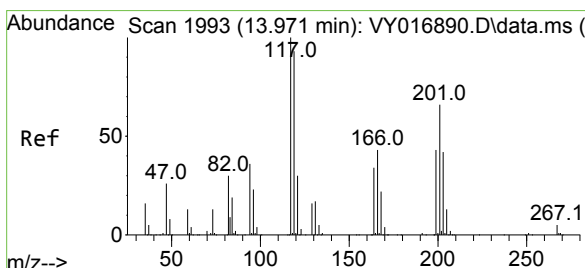
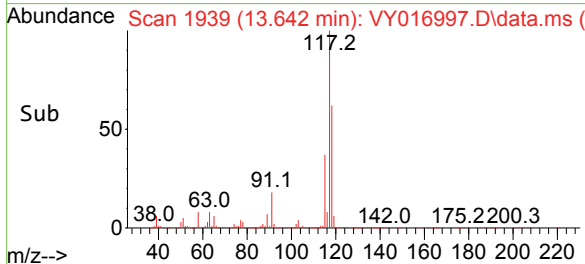
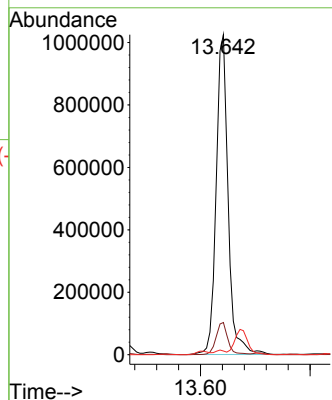
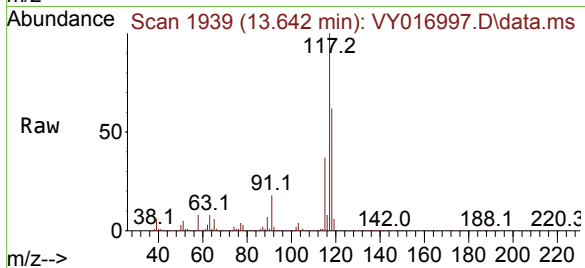
Tgt Ion: 91 Resp: 1546403

Ion Ratio Lower Upper

91 100

92 10.0 26.4 79.2#

134 1.2 12.3 36.8#



#90

Hexachloroethane

Concen: 26.359 ug/l

RT: 13.983 min Scan# 1995

Delta R.T. 0.012 min

Lab File: VY016997.D

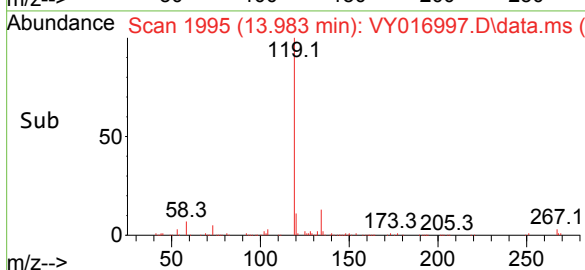
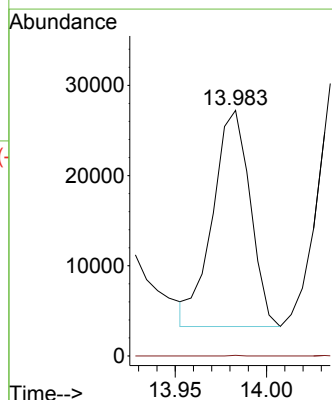
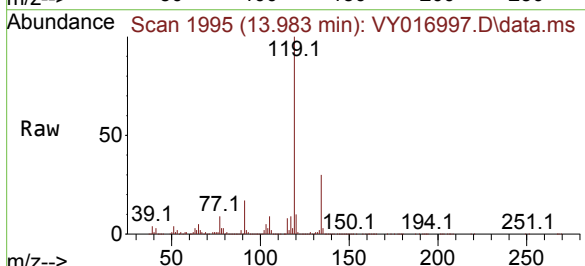
Acq: 12 Jan 2024 16:55

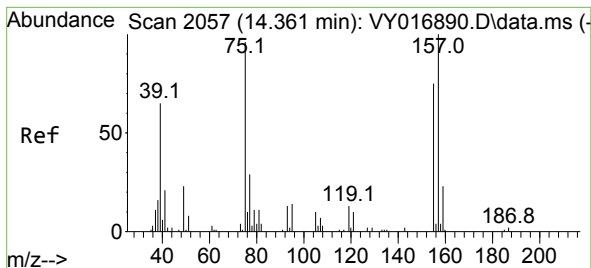
Tgt Ion: 117 Resp: 34174

Ion Ratio Lower Upper

117 100

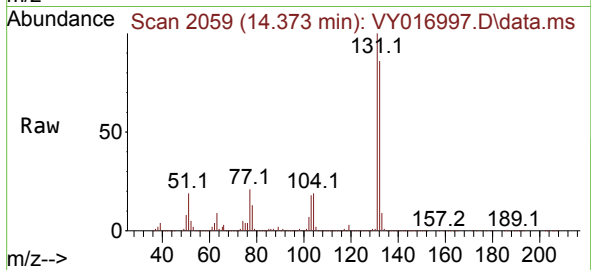
201 0.1 33.4 100.1#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 276.235 ug/l
 RT: 14.373 min Scan# 2059
 Delta R.T. 0.006 min
 Lab File: VY016997.D
 Acq: 12 Jan 2024 16:55

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion: 75 Resp: 49989
 Ion Ratio Lower Upper
 75 100
 155 0.0 42.1 126.3#
 157 0.0 55.8 167.4#

