

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032524\
 Data File : VY017750.D
 Acq On : 25 Mar 2024 12:14
 Operator : SY/MD
 Sample : P1842-01
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 EO-01-03222024-ARE

Quant Time: Mar 26 03:34:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032224S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 04:03:52 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.807	168	13677	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.704	114	18591	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.508	117	11703	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	2350	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.161	65	4118	34.561	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	69.120%
35) Dibromofluoromethane	7.740	113	4347	39.117	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	78.240%
50) Toluene-d8	10.191	98	19590	46.060	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	92.120%
62) 4-Bromofluorobenzene	12.496	95	3121	24.437	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	48.880%

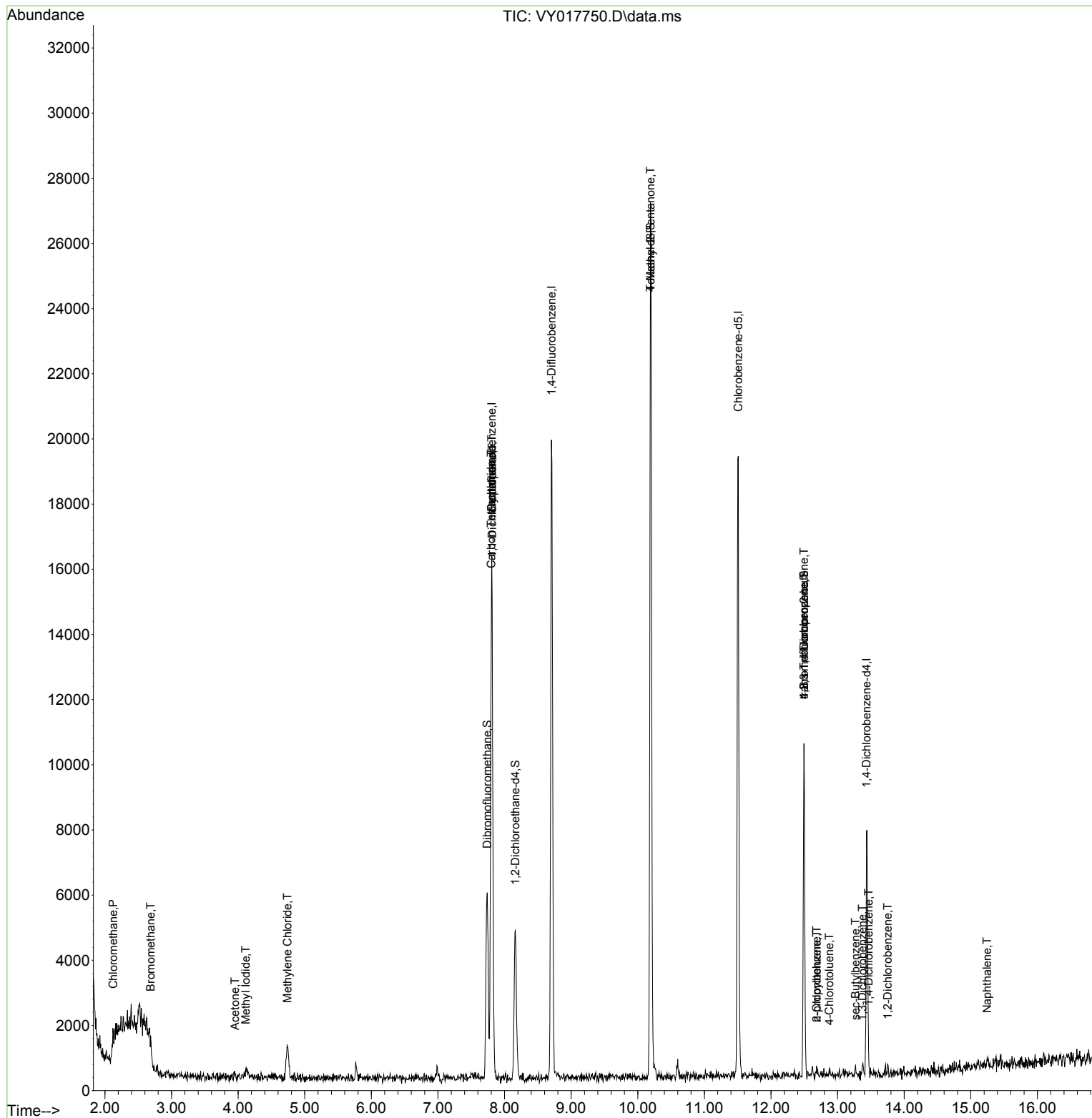
Target Compounds						Qvalue
3) Chloromethane	2.125	50	230	1.504	ug/l #	43
5) Bromomethane	2.686	94	378	2.618	ug/l	100
10) Methyl Iodide	4.113	142	503	2.965	ug/l #	62
16) Acetone	3.954	43	65	3.119	ug/l #	36
20) Methylene Chloride	4.741	84	786	5.186	ug/l #	83
31) Cyclohexane	7.807	56	313	1.328	ug/l #	54
36) 1,1-Dichloropropene	7.813	75	1017	5.924	ug/l #	40
38) Carbon Tetrachloride	7.801	117	1238	6.887	ug/l #	13
51) 4-Methyl-2-Pentanone	10.191	43	55	6.406	ug/l #	1
76) 1,2,3-Trichloropropane	12.496	75	1686	77.693	ug/l #	100
78) n-propylbenzene	12.685	91	264	1.229	ug/l #	53
79) 2-Chlorotoluene	12.685	91	264	2.241	ug/l #	39
81) trans-1,4-Dichloro-2-b...	12.496	75	1686	179.525	ug/l #	16
82) 4-Chlorotoluene	12.874	91	126	1.043	ug/l #	39
85) sec-Butylbenzene	13.270	105	204	1.083	ug/l #	56
87) 1,3-Dichlorobenzene	13.373	146	232	2.834	ug/l #	50
88) 1,4-Dichlorobenzene	13.465	146	128	1.629	ug/l #	71
91) 1,2-Dichlorobenzene	13.751	146	167	2.462	ug/l #	62
95) Naphthalene	15.245	128	302	7.320	ug/l #	69

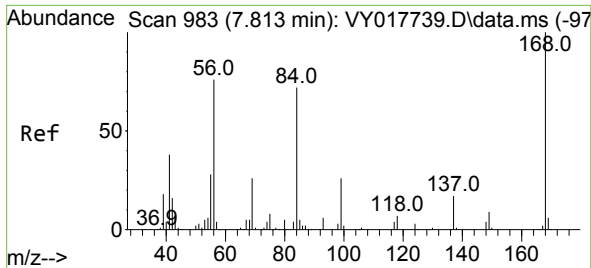
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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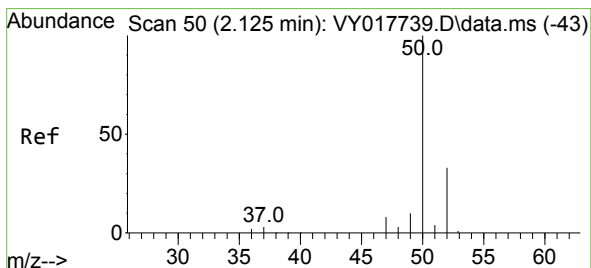
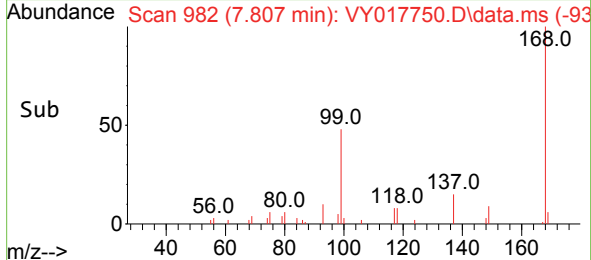
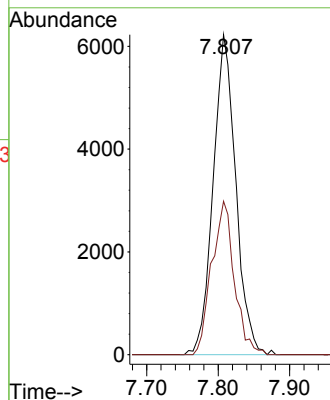
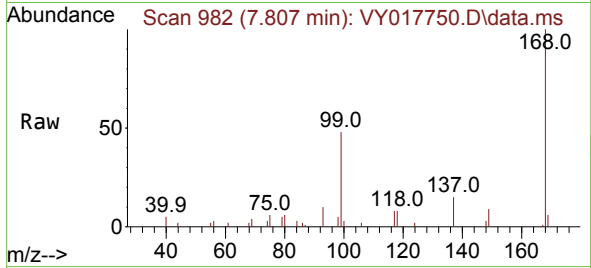




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.807 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY017750.D
Acq: 25 Mar 2024 12:14

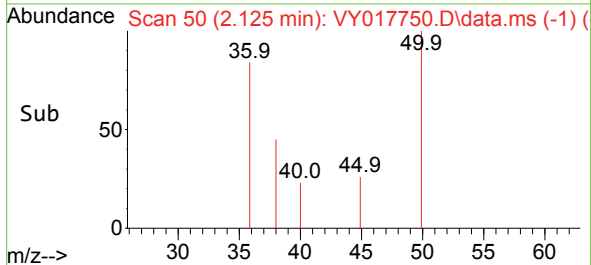
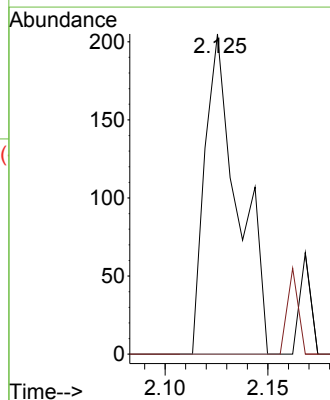
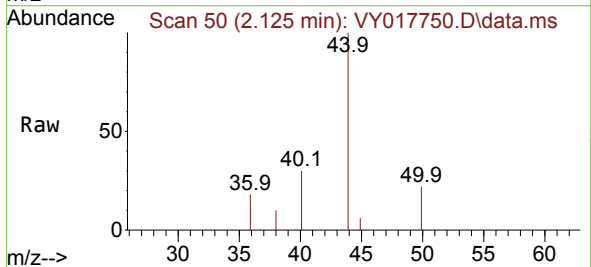
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MSVOA_Y
ClientSampleId :
EO-01-03222024-ARE

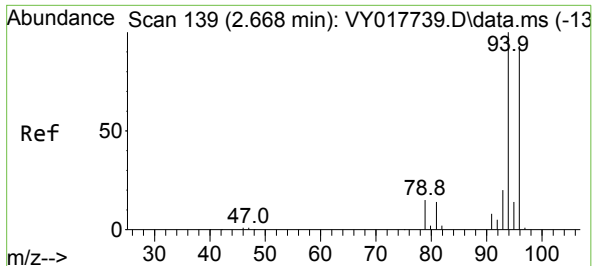
Tgt Ion:168 Resp: 13677
Ion Ratio Lower Upper
168 100
99 47.9 39.1 58.7



#3
Chloromethane
Concen: 1.504 ug/l
RT: 2.125 min Scan# 50
Delta R.T. 0.000 min
Lab File: VY017750.D
Acq: 25 Mar 2024 12:14

Tgt Ion: 50 Resp: 230
Ion Ratio Lower Upper
50 100
52 0.0 25.6 38.4#

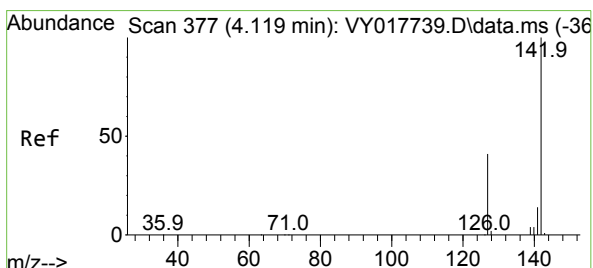
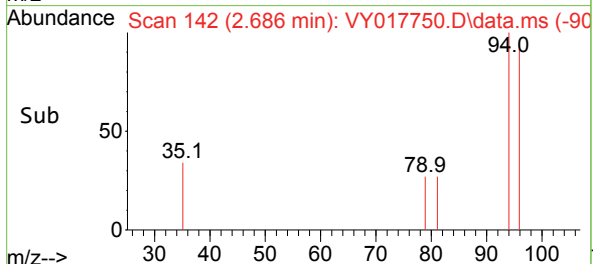
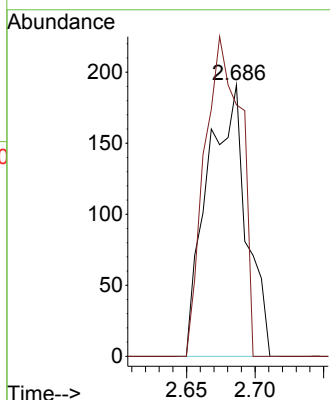
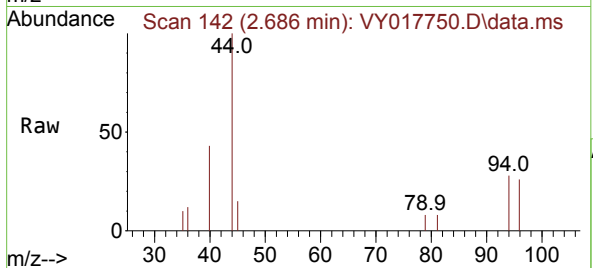




#5
Bromomethane
Concen: 2.618 ug/l
RT: 2.686 min Scan# 14
Delta R.T. 0.018 min
Lab File: VY017750.D
Acq: 25 Mar 2024 12:14

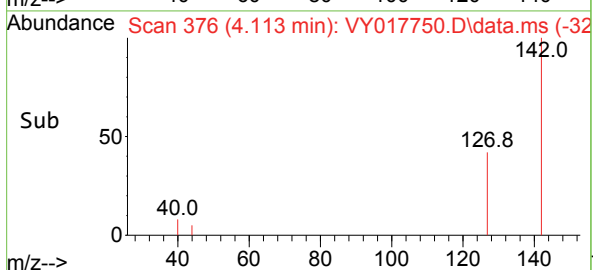
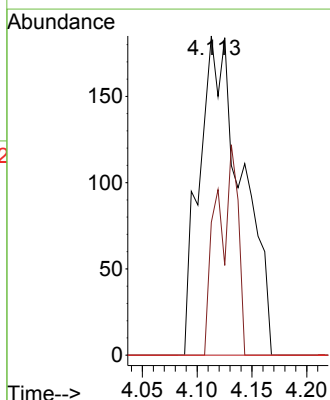
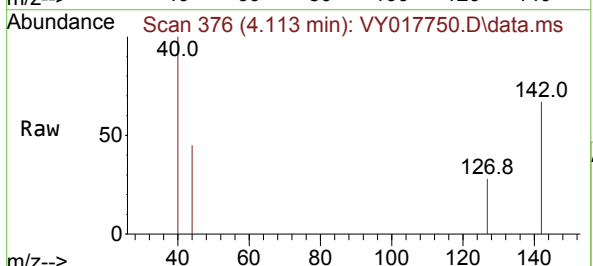
Instrument :
MSVOA_Y
ClientSampleId :
EO-01-03222024-ARE

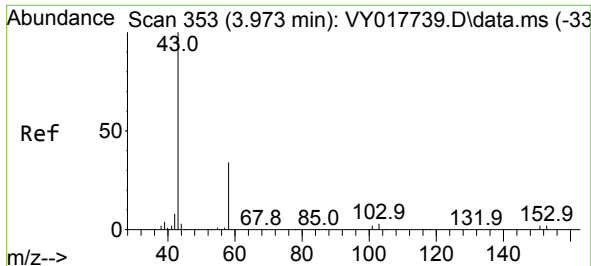
Tgt Ion: 94 Resp: 378
Ion Ratio Lower Upper
94 100
96 92.7 74.1 111.1



#10
Methyl Iodide
Concen: 2.965 ug/l
RT: 4.113 min Scan# 376
Delta R.T. -0.006 min
Lab File: VY017750.D
Acq: 25 Mar 2024 12:14

Tgt Ion:142 Resp: 503
Ion Ratio Lower Upper
142 100
127 16.3 32.8 49.2#
141 0.0 11.4 17.2#

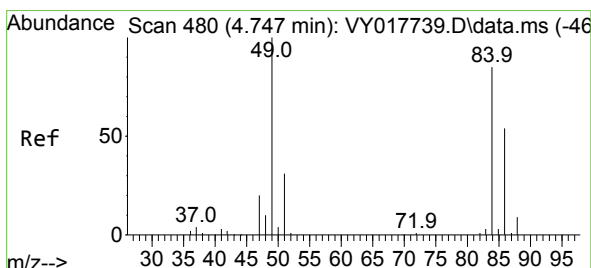
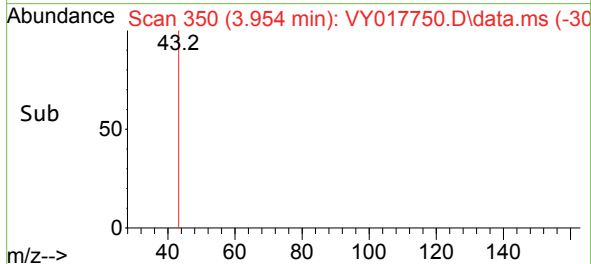
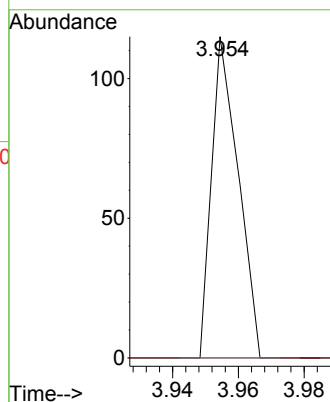
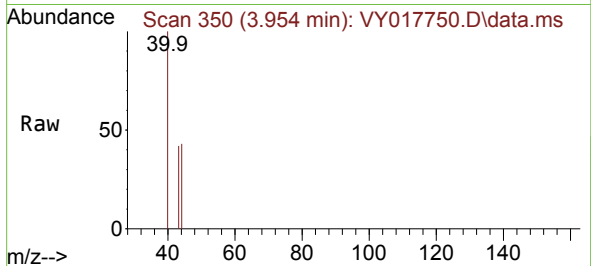




#16
Acetone
Concen: 3.119 ug/l
RT: 3.954 min Scan# 31
Delta R.T. -0.018 min
Lab File: VY017750.D
Acq: 25 Mar 2024 12:14

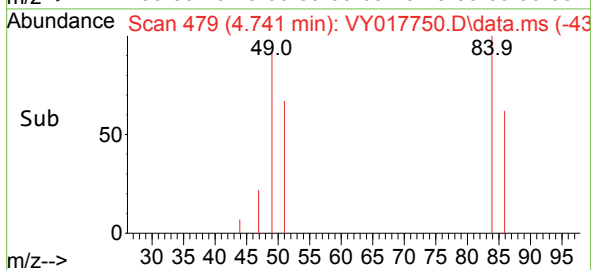
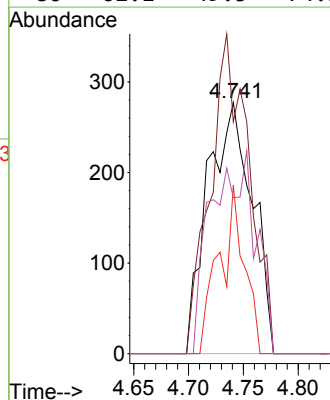
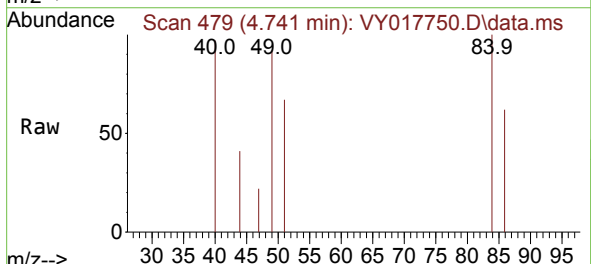
Instrument :
MSVOA_Y
ClientSampleId :
EO-01-03222024-ARE

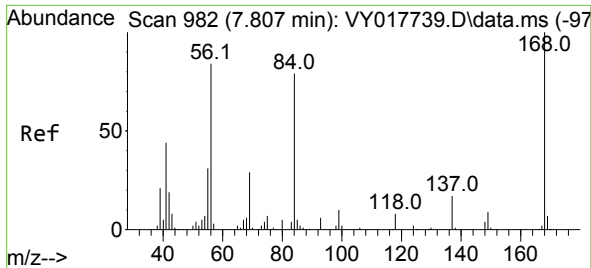
Tgt Ion: 43 Resp: 65
Ion Ratio Lower Upper
43 100
58 0.0 31.7 47.5#



#20
Methylene Chloride
Concen: 5.186 ug/l
RT: 4.741 min Scan# 479
Delta R.T. -0.006 min
Lab File: VY017750.D
Acq: 25 Mar 2024 12:14

Tgt Ion: 84 Resp: 786
Ion Ratio Lower Upper
84 100
49 92.4 84.4 126.6
51 67.1 26.0 39.0#
86 62.1 49.5 74.3

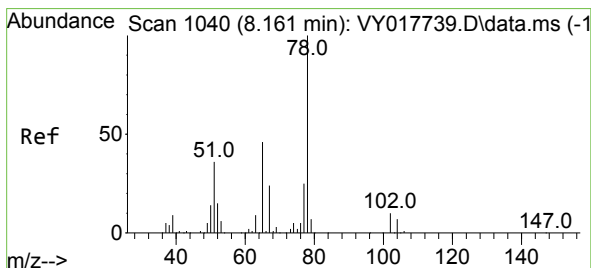
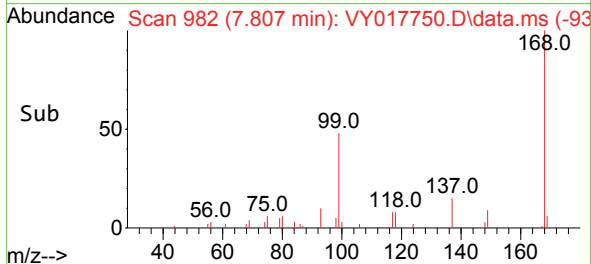
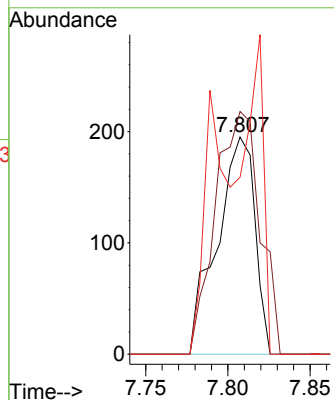
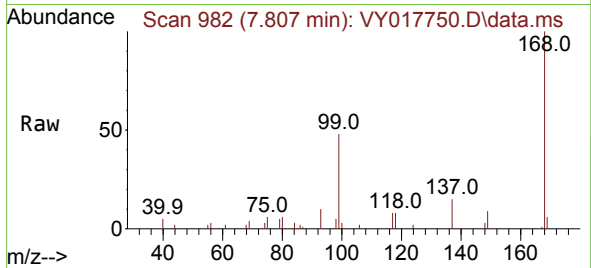




#31
Cyclohexane
Concen: 1.328 ug/l
RT: 7.807 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY017750.D
Acq: 25 Mar 2024 12:14

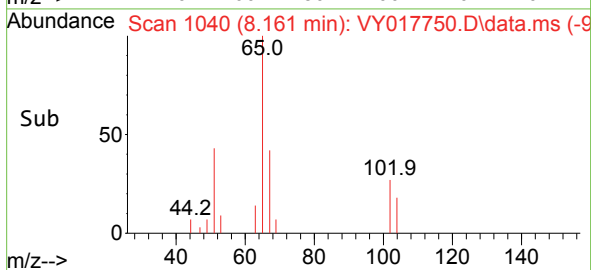
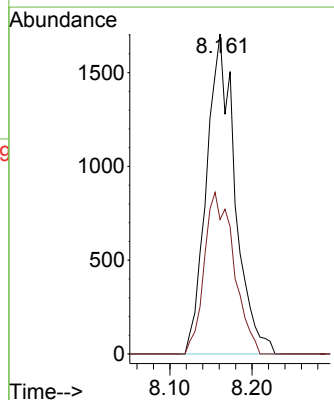
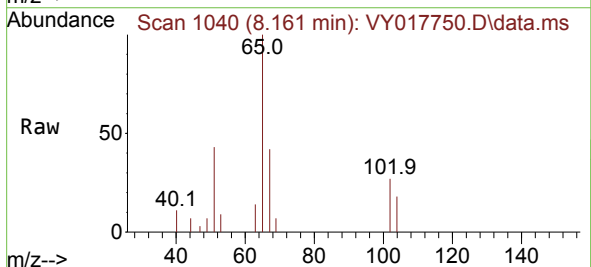
Instrument :
MSVOA_Y
ClientSampleId :
EO-01-03222024-ARE

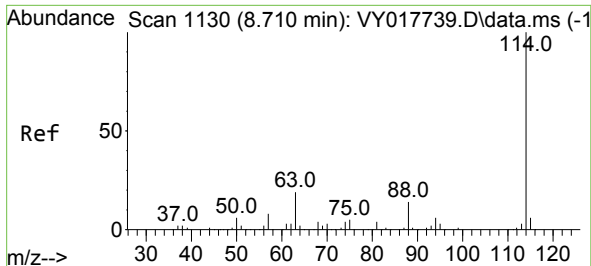
Tgt Ion: 56 Resp: 313
Ion Ratio Lower Upper
56 100
69 111.8 28.7 43.1#
84 81.5 77.7 116.5



#33
1,2-Dichloroethane-d4
Concen: 34.561 ug/l
RT: 8.161 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY017750.D
Acq: 25 Mar 2024 12:14

Tgt Ion: 65 Resp: 4118
Ion Ratio Lower Upper
65 100
67 52.2 0.0 109.6

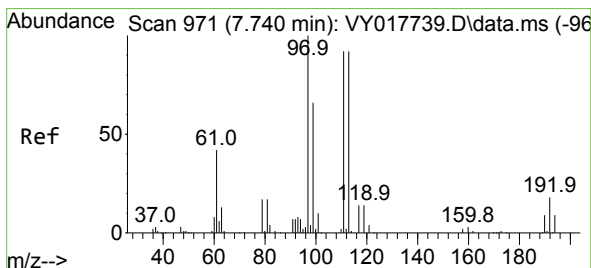
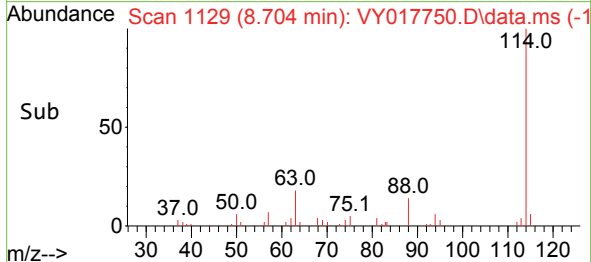
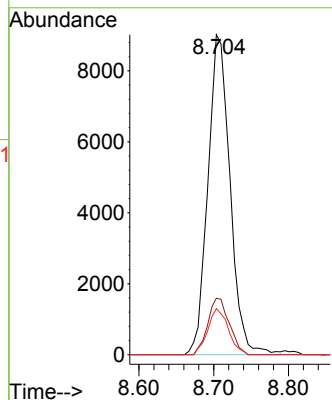
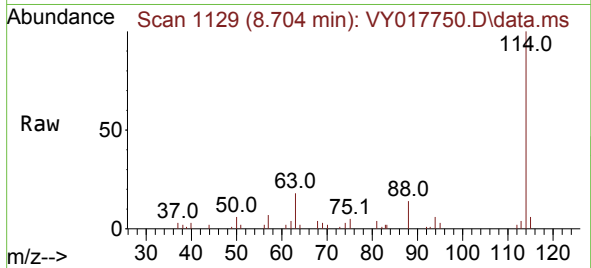




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.704 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY017750.D
Acq: 25 Mar 2024 12:14

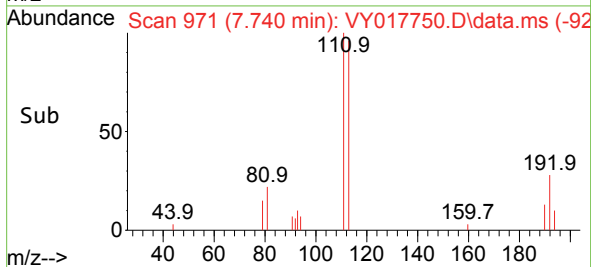
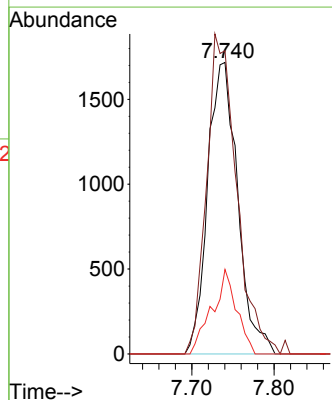
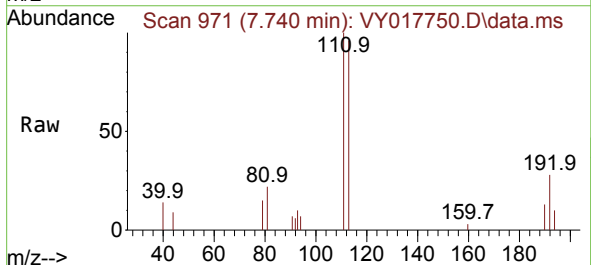
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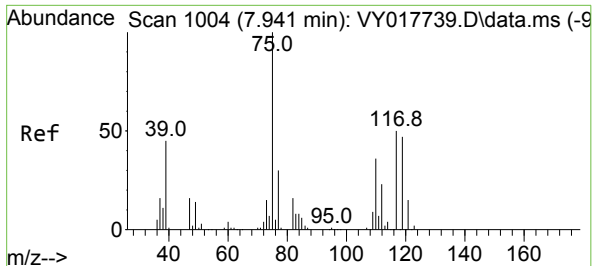
Tgt Ion:114 Resp: 18591
Ion Ratio Lower Upper
114 100
63 17.6 0.0 35.0
88 14.4 0.0 27.2



#35
Dibromofluoromethane
Concen: 39.117 ug/l
RT: 7.740 min Scan# 971
Delta R.T. 0.000 min
Lab File: VY017750.D
Acq: 25 Mar 2024 12:14

Tgt Ion:113 Resp: 4347
Ion Ratio Lower Upper
113 100
111 109.3 82.2 123.4
192 23.7 15.9 23.9





#36

1,1-Dichloropropene

Concen: 5.924 ug/l

RT: 7.813 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY017750.D

Acq: 25 Mar 2024 12:14

Instrument :

MSVOA_Y

ClientSampleId :

EO-01-03222024-ARE

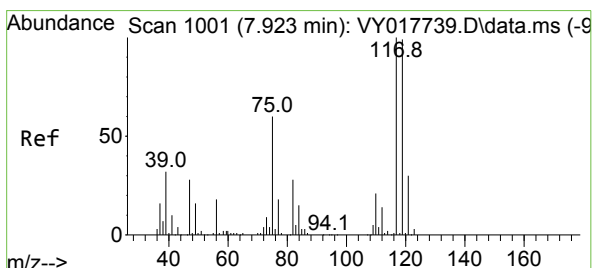
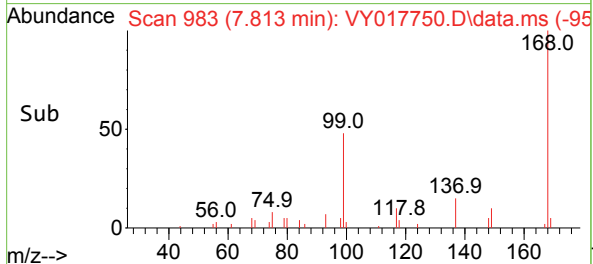
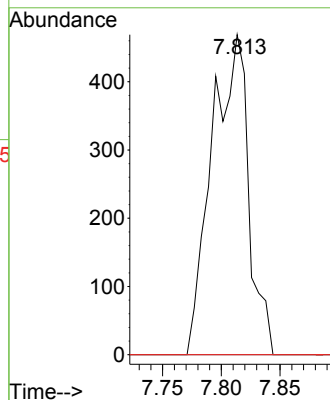
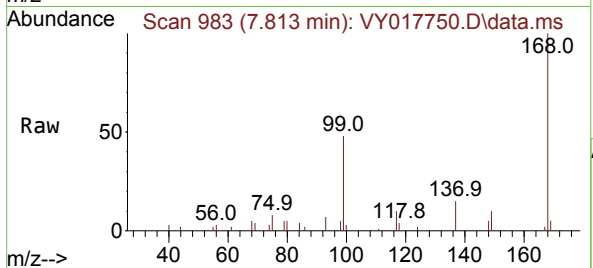
Tgt Ion: 75 Resp: 1017

Ion Ratio Lower Upper

75 100

110 0.0 19.0 57.0#

77 0.0 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 6.887 ug/l

RT: 7.801 min Scan# 981

Delta R.T. -0.122 min

Lab File: VY017750.D

Acq: 25 Mar 2024 12:14

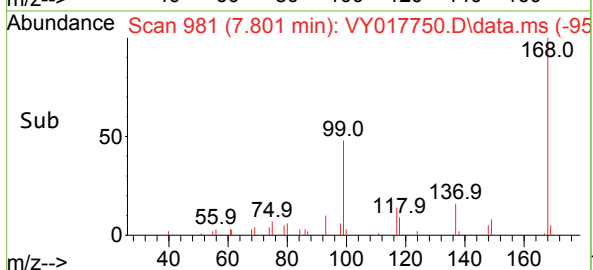
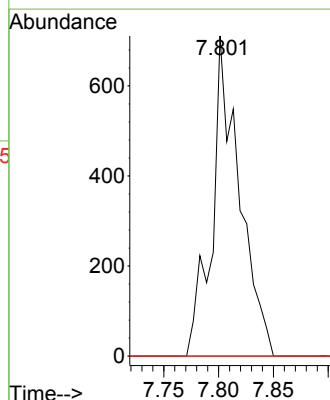
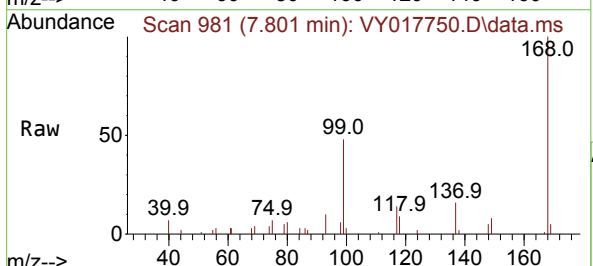
Tgt Ion: 117 Resp: 1238

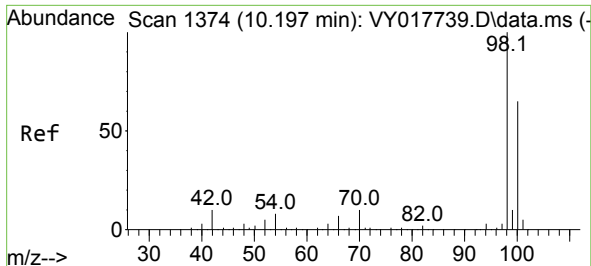
Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.6#

121 0.0 24.0 36.0#

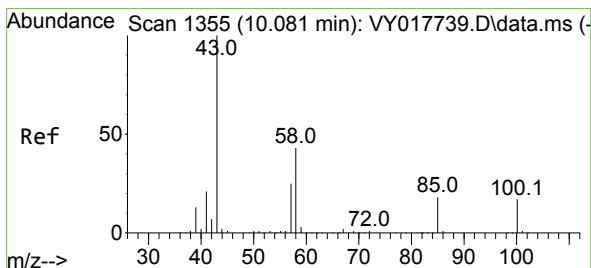
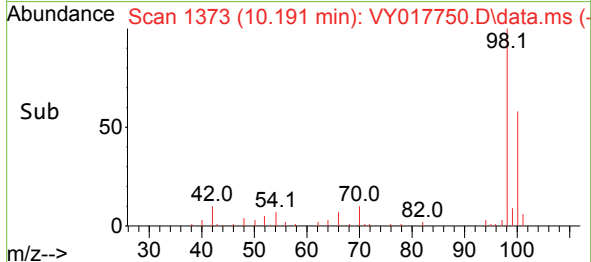
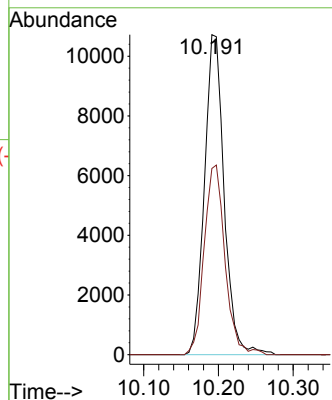
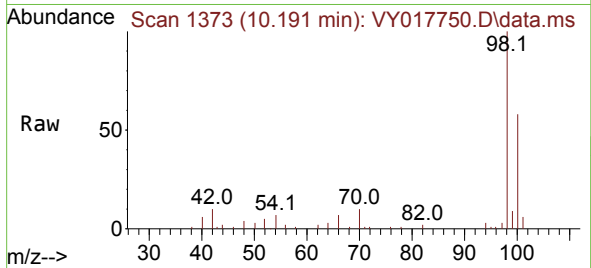




#50
Toluene-d8
Concen: 46.060 ug/l
RT: 10.191 min Scan# 1373
Delta R.T. -0.006 min
Lab File: VY017750.D
Acq: 25 Mar 2024 12:14

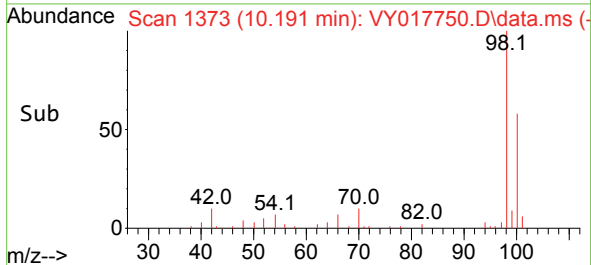
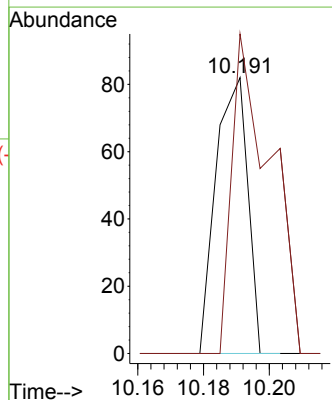
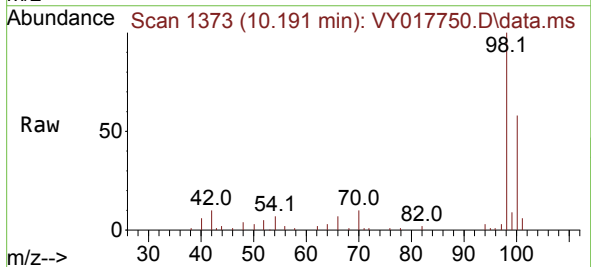
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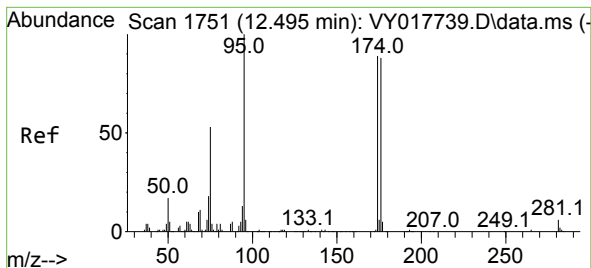
Tgt Ion: 98 Resp: 19590
Ion Ratio Lower Upper
98 100
100 62.7 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 6.406 ug/l
RT: 10.191 min Scan# 1373
Delta R.T. 0.110 min
Lab File: VY017750.D
Acq: 25 Mar 2024 12:14

Tgt Ion: 43 Resp: 55
Ion Ratio Lower Upper
43 100
58 140.0 35.7 53.5#





#62

4-Bromofluorobenzene

Concen: 24.437 ug/l

RT: 12.496 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY017750.D

Acq: 25 Mar 2024 12:14

Instrument :

MSVOA_Y

ClientSampleId :

EO-01-03222024-ARE

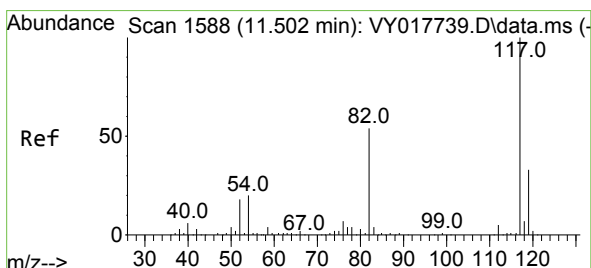
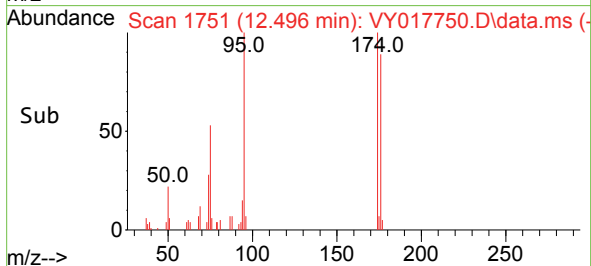
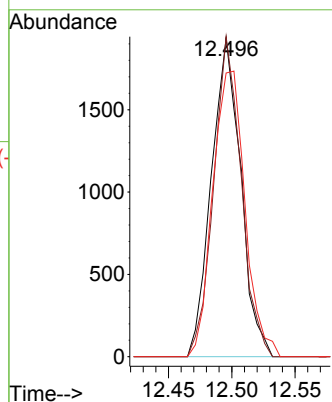
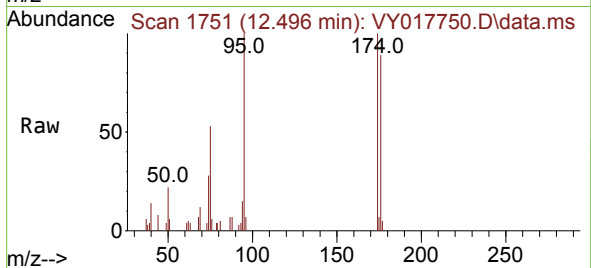
Tgt Ion: 95 Resp: 3121

Ion Ratio Lower Upper

95 100

174 93.9 0.0 175.6

176 98.4 0.0 171.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.508 min Scan# 1589

Delta R.T. 0.006 min

Lab File: VY017750.D

Acq: 25 Mar 2024 12:14

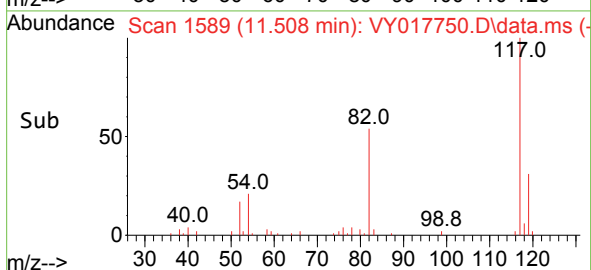
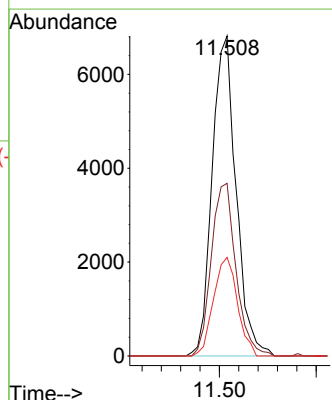
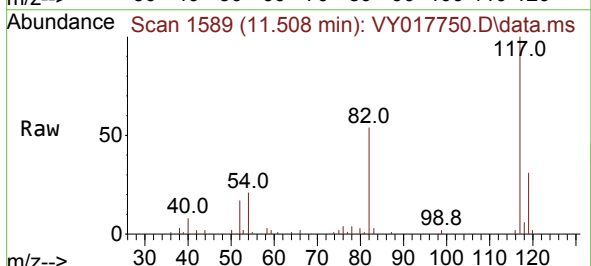
Tgt Ion: 117 Resp: 11703

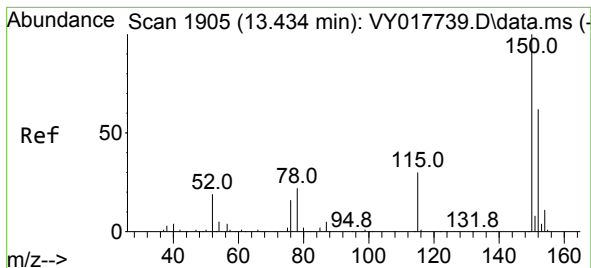
Ion Ratio Lower Upper

117 100

82 53.9 42.4 63.6

119 30.8 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1905

Delta R.T. 0.000 min

Lab File: VY017750.D

Acq: 25 Mar 2024 12:14

Instrument :

MSVOA_Y

ClientSampleId :

EO-01-03222024-ARE

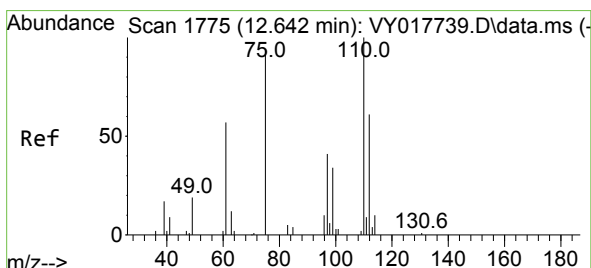
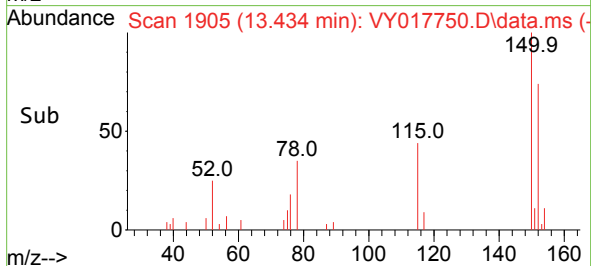
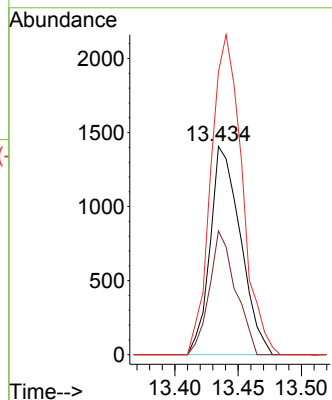
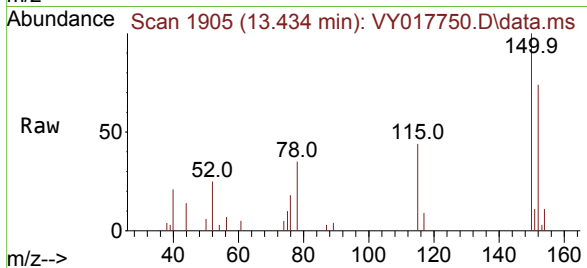
Tgt Ion:152 Resp: 2350

Ion Ratio Lower Upper

152 100

115 51.4 28.2 84.7

150 157.7 0.0 345.6



#76

1,2,3-Trichloropropane

Concen: 77.693 ug/l

RT: 12.496 min Scan# 1751

Delta R.T. -0.146 min

Lab File: VY017750.D

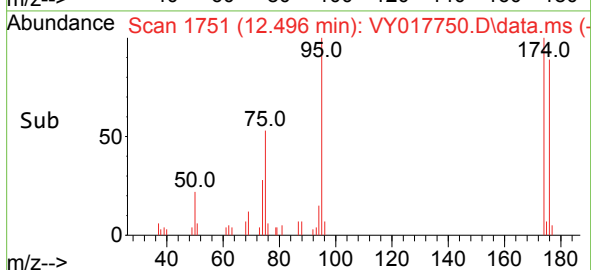
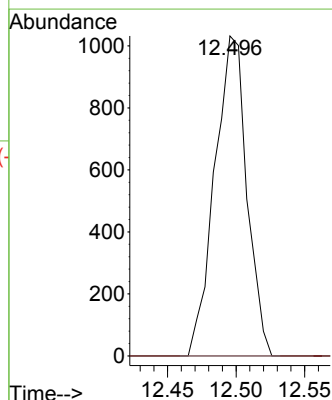
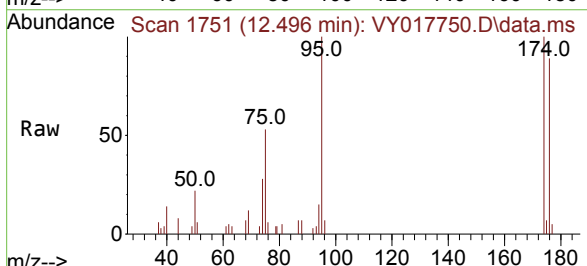
Acq: 25 Mar 2024 12:14

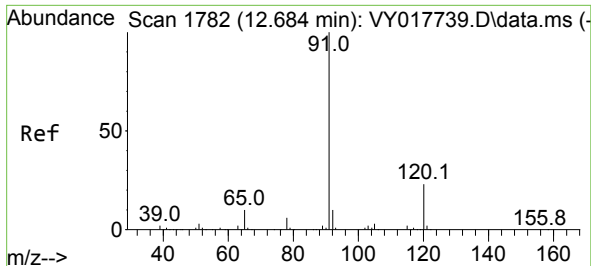
Tgt Ion: 75 Resp: 1686

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

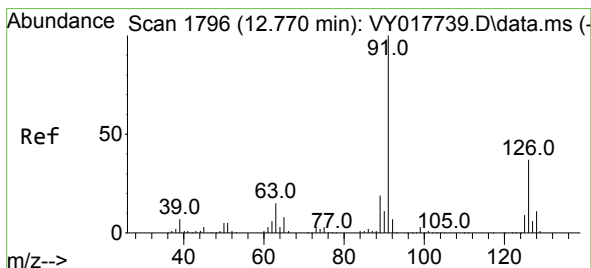
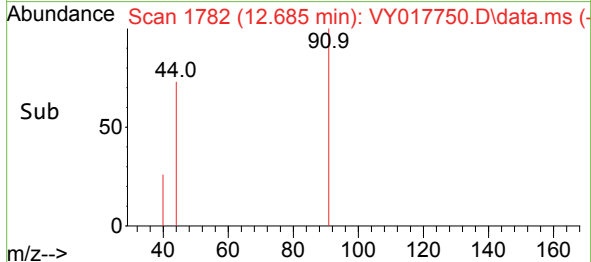
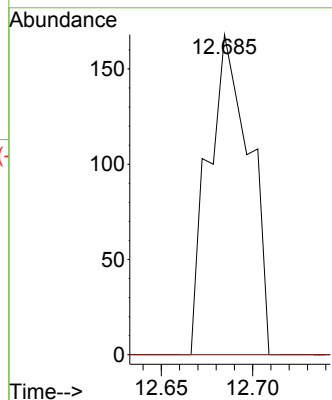
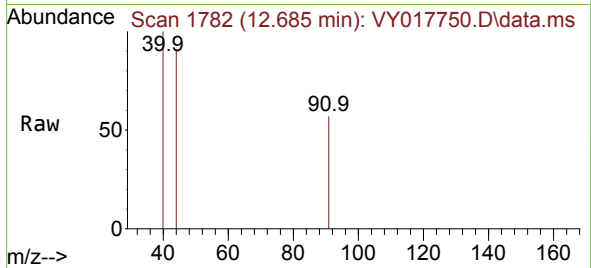




#78
n-propylbenzene
Concen: 1.229 ug/l
RT: 12.685 min Scan# 1782
Delta R.T. 0.000 min
Lab File: VY017750.D
Acq: 25 Mar 2024 12:14

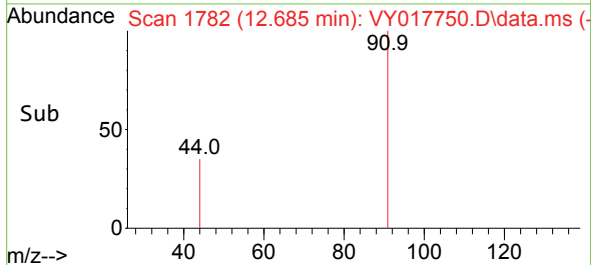
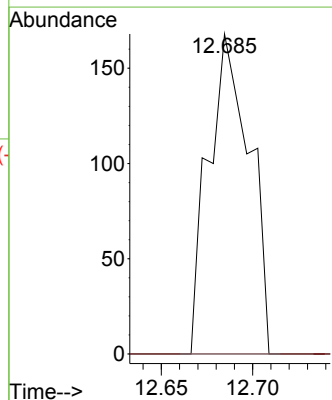
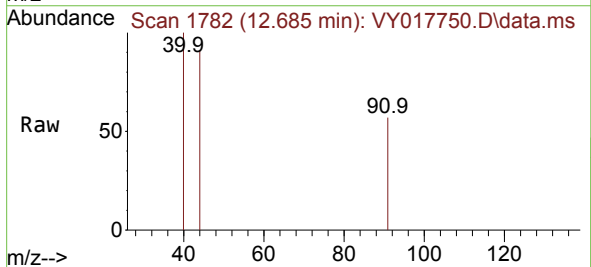
Instrument :
MSVOA_Y
ClientSampleId :
EO-01-03222024-ARE

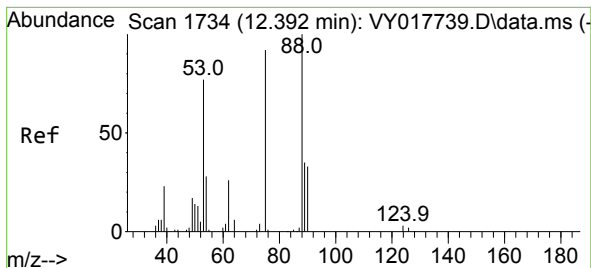
Tgt Ion: 91 Resp: 264
Ion Ratio Lower Upper
91 100
120 0.0 11.5 34.4#



#79
2-Chlorotoluene
Concen: 2.241 ug/l
RT: 12.685 min Scan# 1782
Delta R.T. -0.085 min
Lab File: VY017750.D
Acq: 25 Mar 2024 12:14

Tgt Ion: 91 Resp: 264
Ion Ratio Lower Upper
91 100
126 0.0 17.8 53.5#

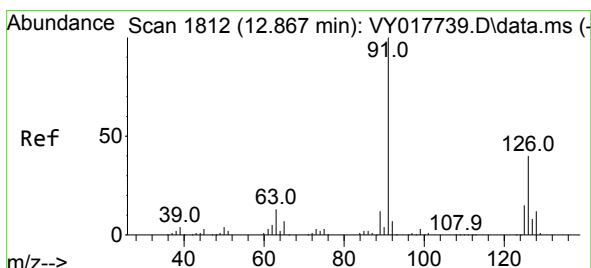
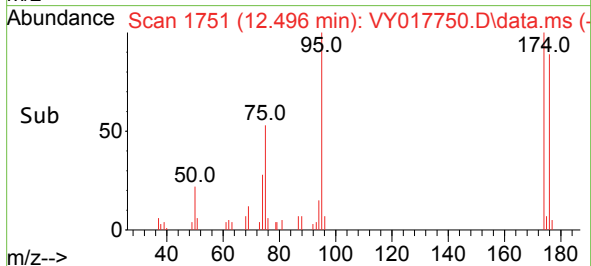
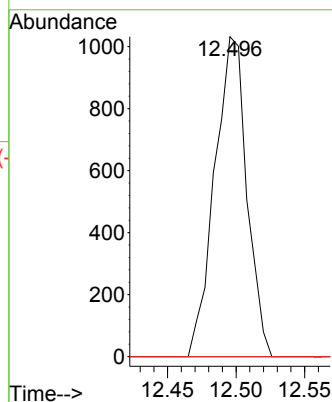
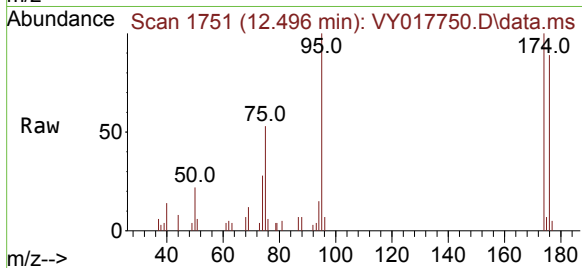




#81
trans-1,4-Dichloro-2-butene
Concen: 179.525 ug/l
RT: 12.496 min Scan# 1751
Delta R.T. 0.104 min
Lab File: VY017750.D
Acq: 25 Mar 2024 12:14

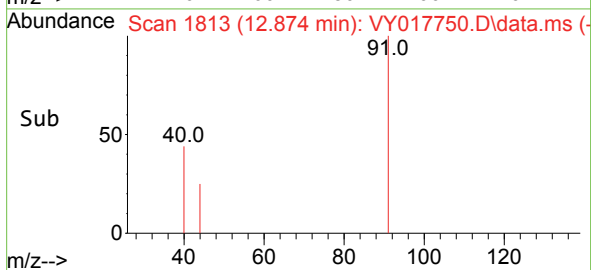
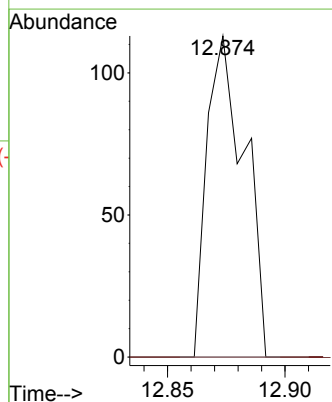
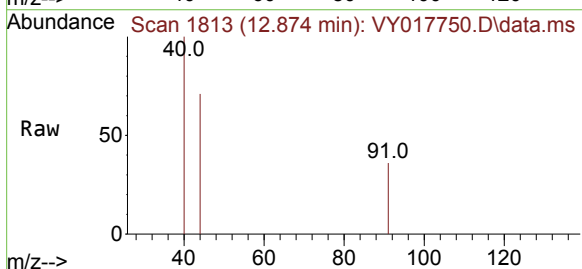
Instrument :
MSVOA_Y
ClientSampleId :
EO-01-03222024-ARE

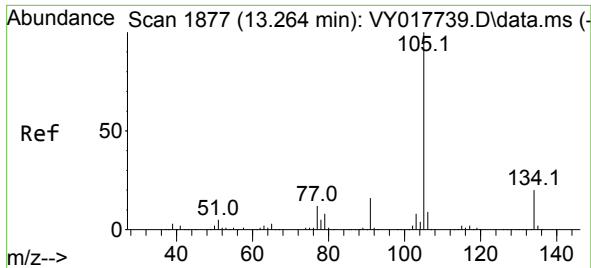
Tgt Ion: 75 Resp: 1686
Ion Ratio Lower Upper
75 100
53 0.0 66.8 100.2#
89 0.0 35.8 53.6#



#82
4-Chlorotoluene
Concen: 1.043 ug/l
RT: 12.874 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY017750.D
Acq: 25 Mar 2024 12:14

Tgt Ion: 91 Resp: 126
Ion Ratio Lower Upper
91 100
126 0.0 17.6 52.9#

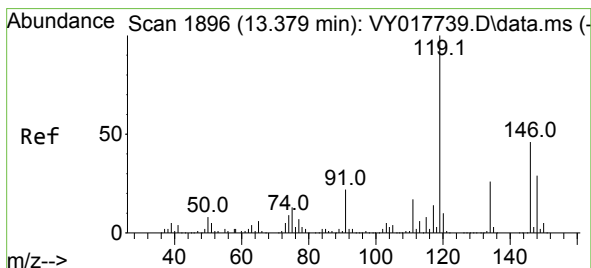
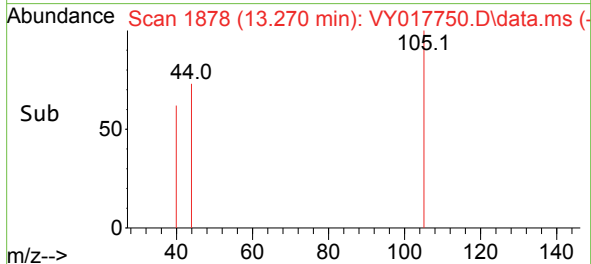
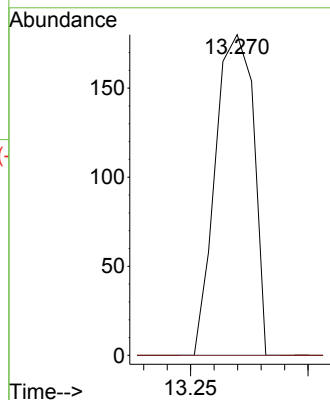
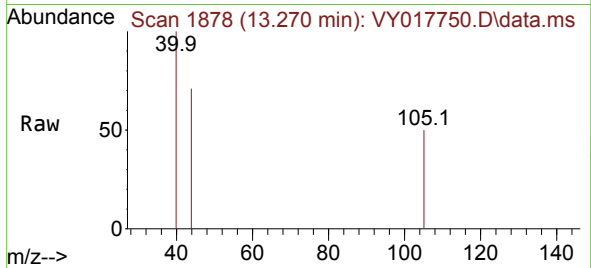




#85
 sec-Butylbenzene
 Concen: 1.083 ug/l
 RT: 13.270 min Scan# 1877
 Delta R.T. 0.006 min
 Lab File: VY017750.D
 Acq: 25 Mar 2024 12:14

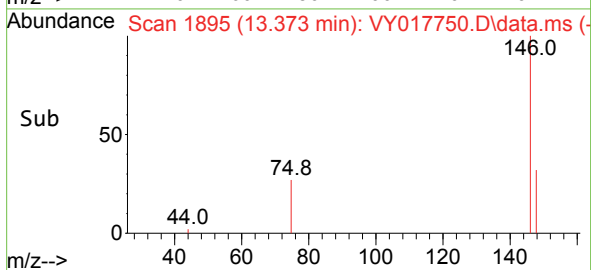
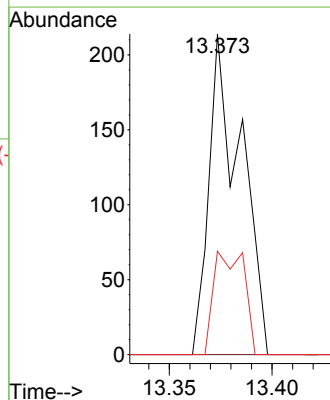
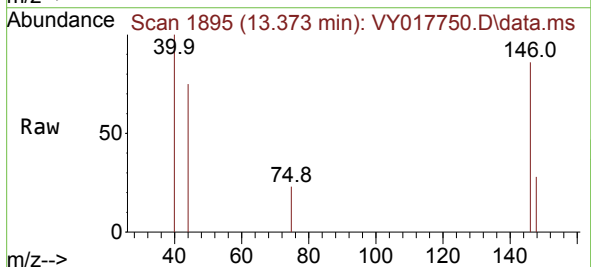
Instrument :
 MSVOA_Y
 ClientSampleId :
 EO-01-03222024-ARE

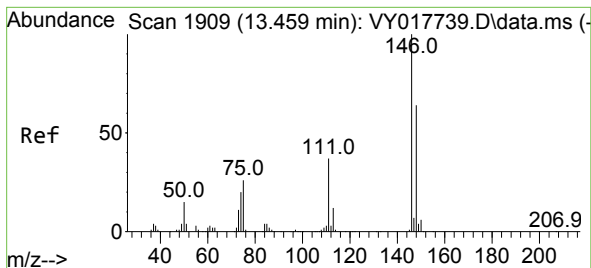
Tgt Ion:105 Resp: 204
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.1 30.1#



#87
 1,3-Dichlorobenzene
 Concen: 2.834 ug/l
 RT: 13.373 min Scan# 1895
 Delta R.T. -0.006 min
 Lab File: VY017750.D
 Acq: 25 Mar 2024 12:14

Tgt Ion:146 Resp: 232
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.0 57.0#
 148 30.6 31.7 95.1#





#88

1,4-Dichlorobenzene

Concen: 1.629 ug/l

RT: 13.465 min Scan# 1909

Delta R.T. 0.006 min

Lab File: VY017750.D

Acq: 25 Mar 2024 12:14

Instrument :

MSVOA_Y

ClientSampleId :

EO-01-03222024-ARE

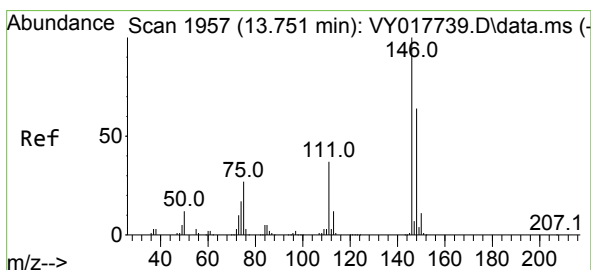
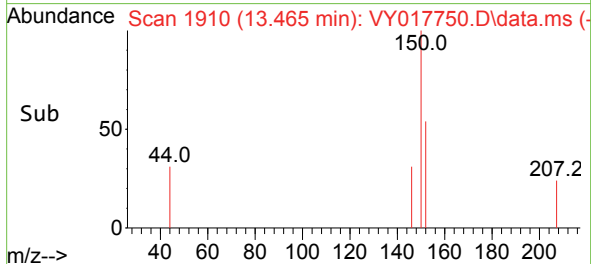
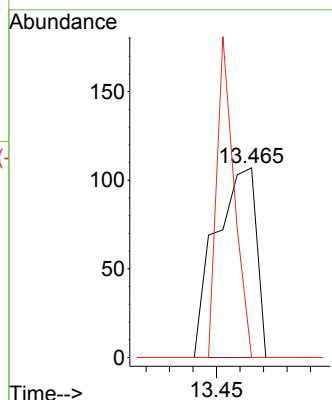
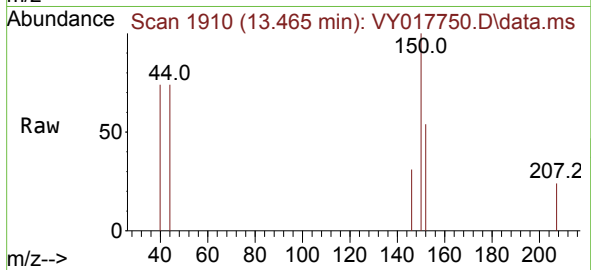
Tgt Ion:146 Resp: 128

Ion Ratio Lower Upper

146 100

111 0.0 18.4 55.4#

148 72.7 32.4 97.2



#91

1,2-Dichlorobenzene

Concen: 2.462 ug/l

RT: 13.751 min Scan# 1957

Delta R.T. 0.000 min

Lab File: VY017750.D

Acq: 25 Mar 2024 12:14

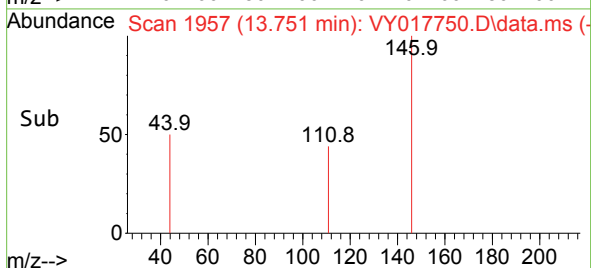
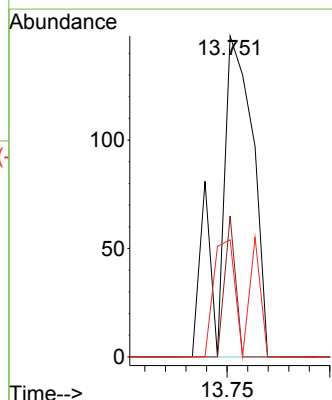
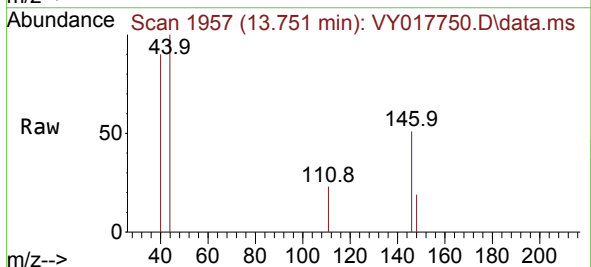
Tgt Ion:146 Resp: 167

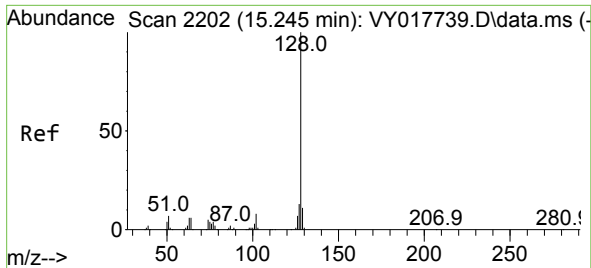
Ion Ratio Lower Upper

146 100

111 14.4 19.9 59.7#

148 35.3 31.8 95.4





#95

Naphthalene

Concen: 7.320 ug/l

RT: 15.245 min Scan# 21

Delta R.T. 0.000 min

Lab File: VY017750.D

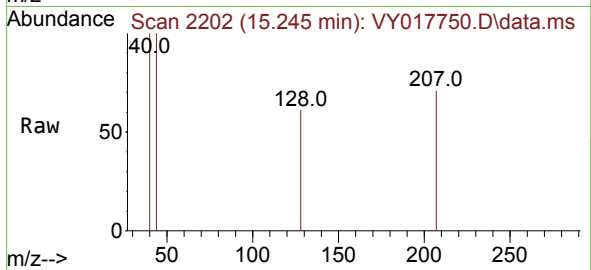
Acq: 25 Mar 2024 12:14

Instrument :

MSVOA_Y

ClientSampleId :

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Tgt Ion:128 Resp: 302

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 13.0#

