

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040324\
 Data File : VY017837.D
 Acq On : 03 Apr 2024 15:46
 Operator : SY/MD
 Sample : P1957-01
 Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 NM-DRUMS-040224RE

Quant Time: Apr 04 01:13:23 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032924S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 05:58:13 2024
 Response via : Initial Calibration

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

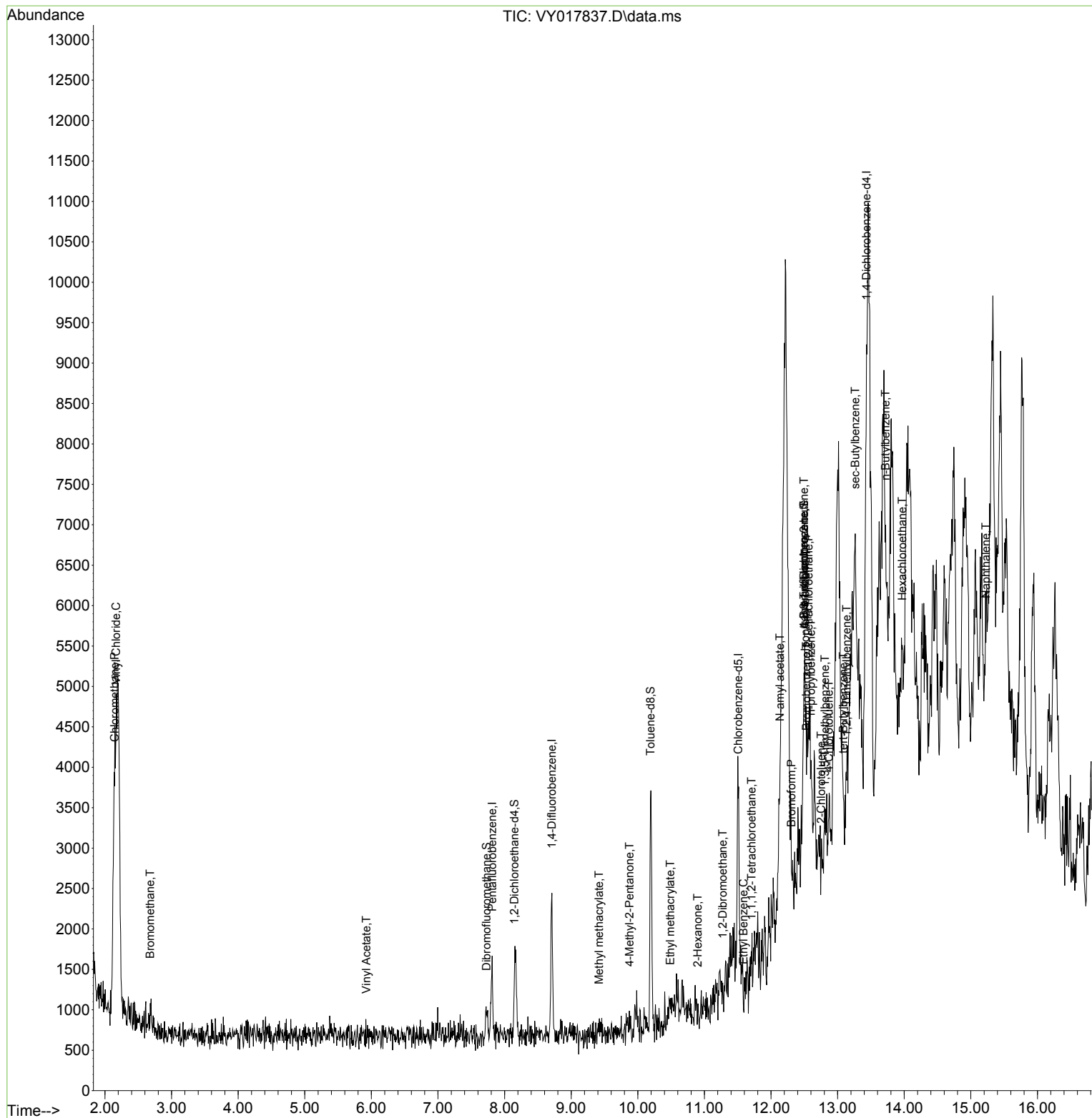
Internal Standards						
1) Pentafluorobenzene	7.813	168	974	50.000	ug/l	0.02
34) 1,4-Difluorobenzene	8.710	114	1978	50.000	ug/l	0.02
63) Chlorobenzene-d5	11.508	117	1754	50.000	ug/l	# 0.01
72) 1,4-Dichlorobenzene-d4	13.434	152	584	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	1015	120.426	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	240.860	%	#
35) Dibromofluoromethane	7.728	113	343	30.009	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	60.020	%	
50) Toluene-d8	10.191	98	2457	57.548	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	115.100	%	
62) 4-Bromofluorobenzene	12.495	95	417	32.102	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	64.200	%	
Target Compounds						Qvalue
3) Chloromethane	2.144	50	57	4.484	ug/l #	43
4) Vinyl Chloride	2.168	62	64	3.852	ug/l #	42
5) Bromomethane	2.680	94	19	1.414	ug/l	96
20) Methylene Chloride	4.735	84	20	Below Cal	#	12
23) Vinyl Acetate	5.923	43	19	1.207	ug/l #	67
48) Methyl methacrylate	9.417	41	22	4.449	ug/l #	11
51) 4-Methyl-2-Pentanone	9.874	43	42	1.034	ug/l #	31
56) Ethyl methacrylate	10.490	69	80	8.298	ug/l #	73
59) 2-Hexanone	10.898	43	46	11.259	ug/l #	19
61) 1,2-Dibromoethane	11.276	107	30	3.639	ug/l	85
66) 1,1,1,2-Tetrachloroethane	11.709	131	66	5.402	ug/l #	8
67) Ethyl Benzene	11.587	91	85	1.374	ug/l #	44
69) o-Xylene	12.276	106	20	Below Cal	#	1
71) Bromoform	12.306	173	24	3.544	ug/l #	27
73) Isopropylbenzene	12.514	105	131	3.201	ug/l	76
74) N-amyl acetate	12.136	43	222	30.870	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	12.563	83	79	11.159	ug/l #	26
76) 1,2,3-Trichloropropane	12.495	75	273	51.299	ug/l #	100
77) Bromobenzene	12.532	156	76	7.797	ug/l #	1
78) n-propylbenzene	12.599	91	165	3.304	ug/l	76
79) 2-Chlorotoluene	12.751	91	137	5.008	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.812	105	76	2.379	ug/l #	27
81) trans-1,4-Dichloro-2-b...	12.495	75	273	101.619	ug/l #	16
82) 4-Chlorotoluene	12.867	91	78	2.754	ug/l #	39
83) tert-Butylbenzene	13.087	119	30	1.033	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.136	105	686	21.565	ug/l #	30
85) sec-Butylbenzene	13.264	105	184	4.222	ug/l #	56
89) n-Butylbenzene	13.721	91	199	5.937	ug/l #	33
90) Hexachloroethane	13.971	117	35	4.831	ug/l #	12
95) Naphthalene	15.227	128	270	21.602	ug/l #	69

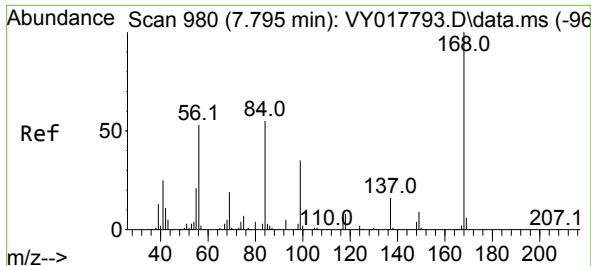
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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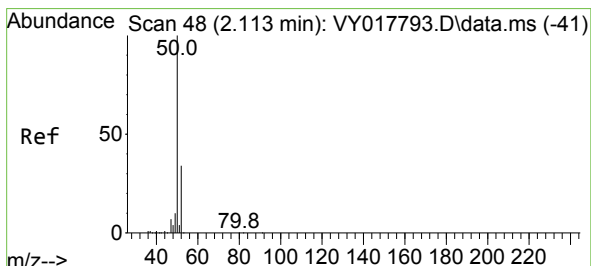
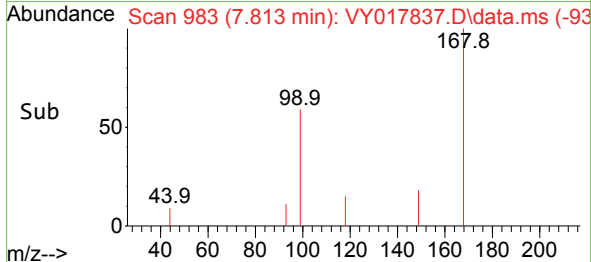
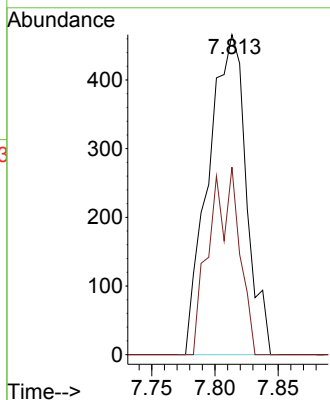
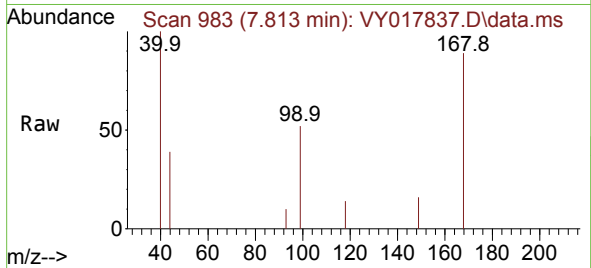




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.813 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY017837.D
Acq: 03 Apr 2024 15:46

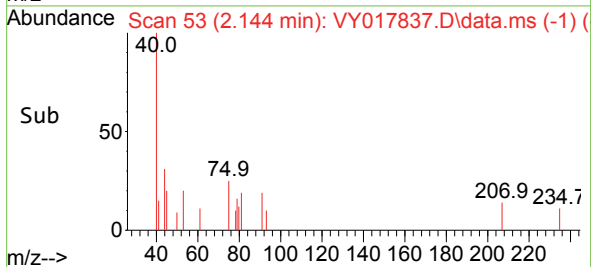
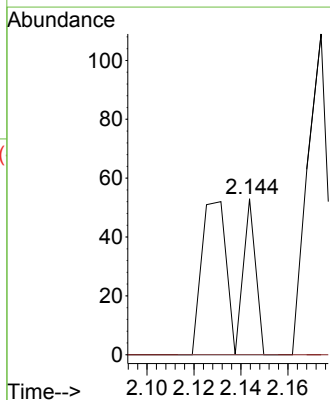
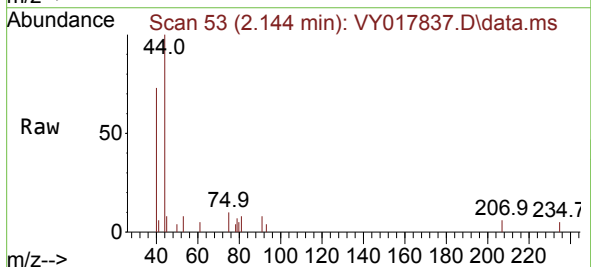
Instrument :
MSVOA_Y
ClientSampleId :
NM-DRUMS-040224RE

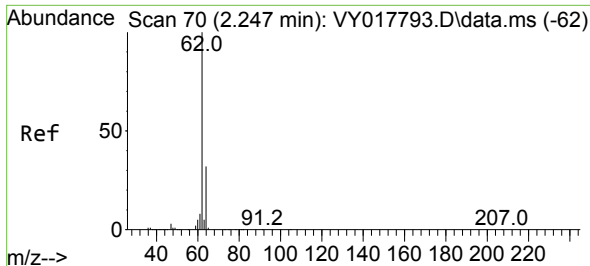
Tgt Ion:168 Resp: 974
Ion Ratio Lower Upper
168 100
99 58.6 39.1 58.7



#3
Chloromethane
Concen: 4.484 ug/l
RT: 2.144 min Scan# 53
Delta R.T. 0.031 min
Lab File: VY017837.D
Acq: 03 Apr 2024 15:46

Tgt Ion: 50 Resp: 57
Ion Ratio Lower Upper
50 100
52 0.0 25.6 38.4#

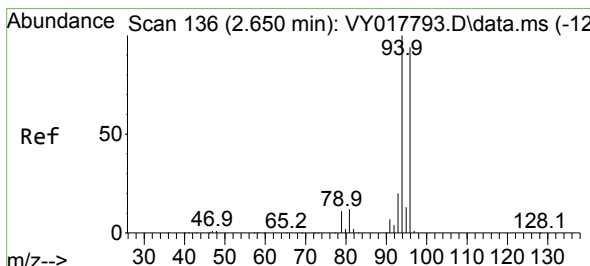
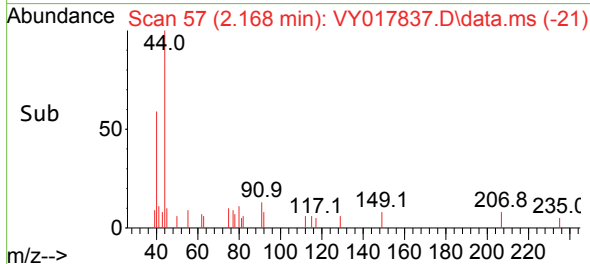
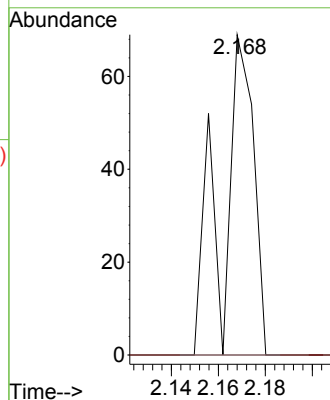
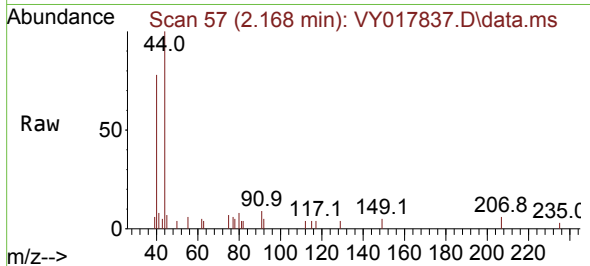




#4
 Vinyl Chloride
 Concen: 3.852 ug/l
 RT: 2.168 min Scan# 51
 Delta R.T. -0.079 min
 Lab File: VY017837.D
 Acq: 03 Apr 2024 15:46

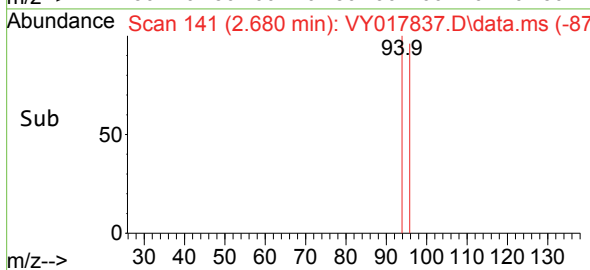
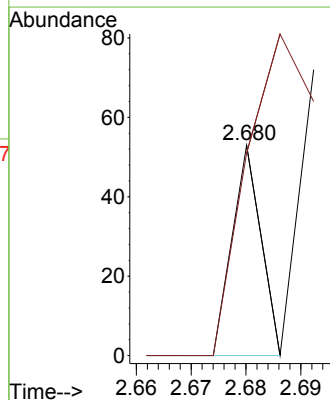
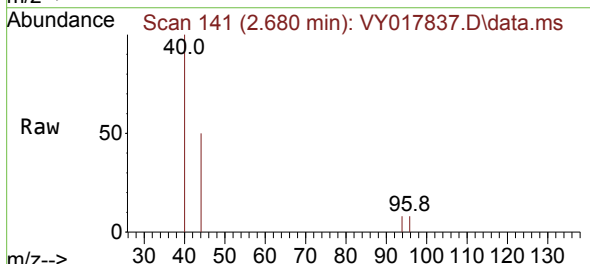
Instrument :
 MSVOA_Y
 ClientSampleId :
 NM-DRUMS-040224RE

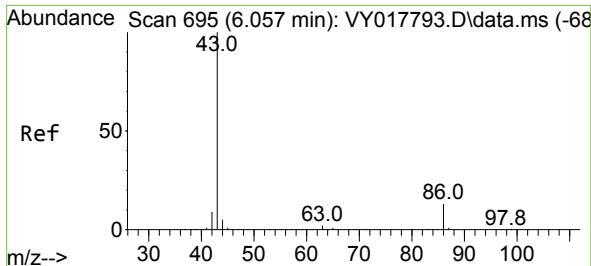
Tgt Ion: 62 Resp: 64
 Ion Ratio Lower Upper
 62 100
 64 0.0 26.1 39.1#



#5
 Bromomethane
 Concen: 1.414 ug/l
 RT: 2.680 min Scan# 141
 Delta R.T. 0.031 min
 Lab File: VY017837.D
 Acq: 03 Apr 2024 15:46

Tgt Ion: 94 Resp: 19
 Ion Ratio Lower Upper
 94 100
 96 96.2 74.1 111.1

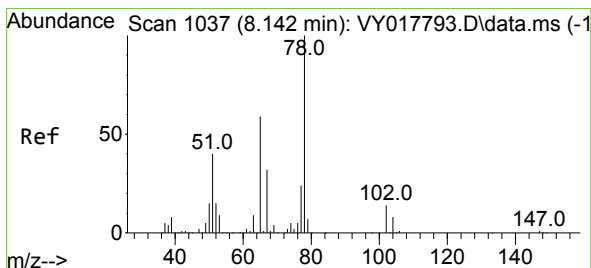
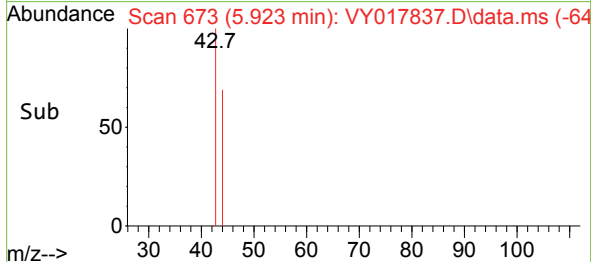
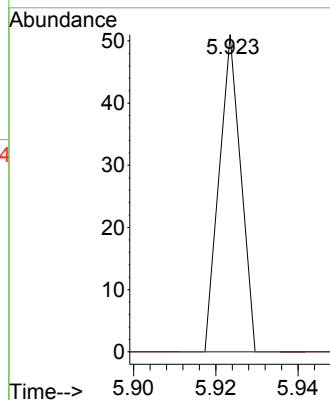
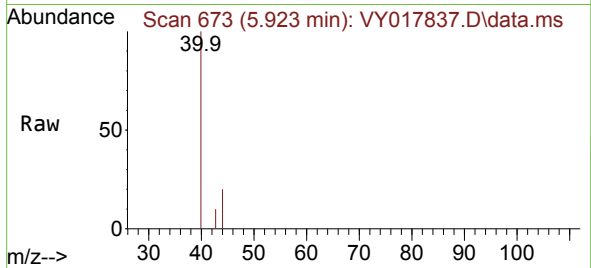




#23
 Vinyl Acetate
 Concen: 1.207 ug/l
 RT: 5.923 min Scan# 61
 Delta R.T. -0.134 min
 Lab File: VY017837.D
 Acq: 03 Apr 2024 15:46

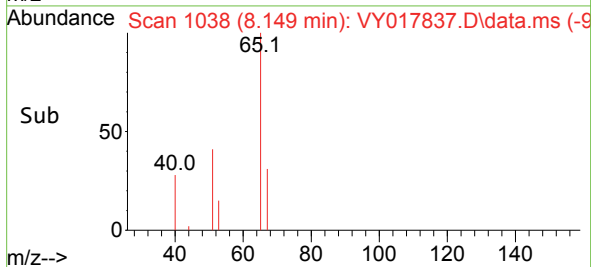
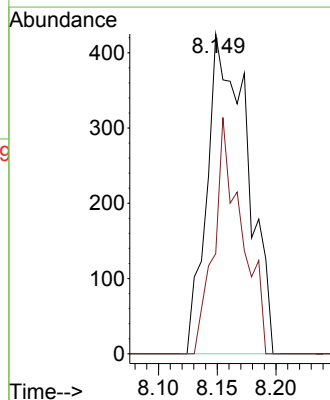
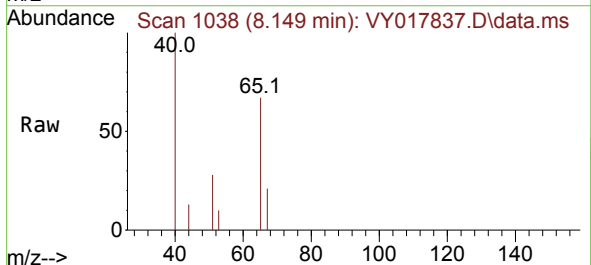
Instrument :
 MSVOA_Y
 ClientSampleId :
 NM-DRUMS-040224RE

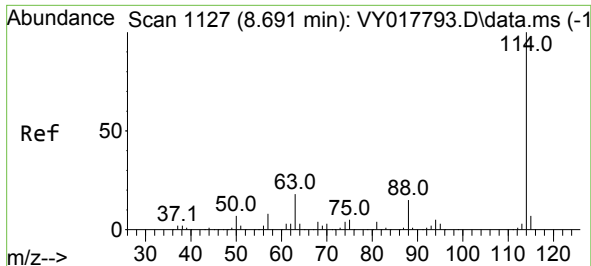
Tgt Ion: 43 Resp: 19
 Ion Ratio Lower Upper
 43 100
 86 0.0 10.6 16.0#



#33
 1,2-Dichloroethane-d4
 Concen: 120.426 ug/l
 RT: 8.149 min Scan# 1038
 Delta R.T. 0.006 min
 Lab File: VY017837.D
 Acq: 03 Apr 2024 15:46

Tgt Ion: 65 Resp: 1015
 Ion Ratio Lower Upper
 65 100
 67 50.5 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.710 min Scan# 1130

Delta R.T. 0.018 min

Lab File: VY017837.D

Acq: 03 Apr 2024 15:46

Instrument :

MSVOA_Y

ClientSampleId :

NM-DRUMS-040224RE

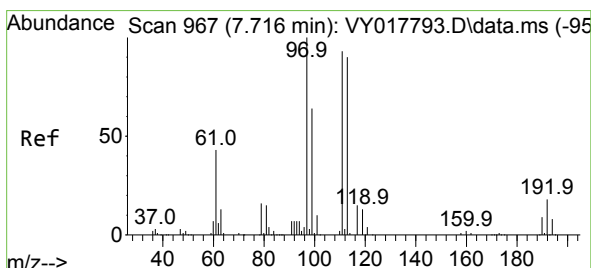
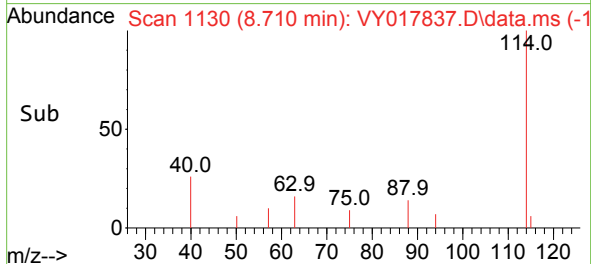
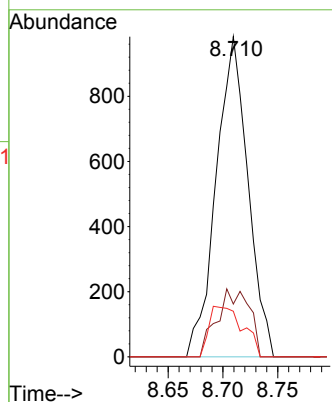
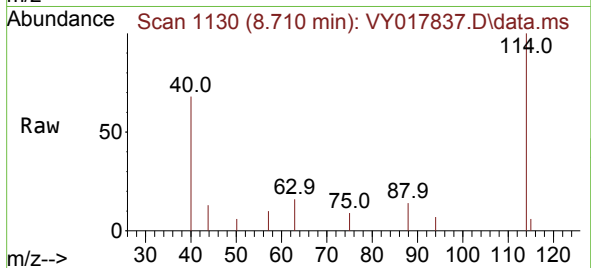
Tgt Ion:114 Resp: 1978

Ion Ratio Lower Upper

114 100

63 16.5 0.0 35.0

88 14.2 0.0 27.2



#35

Dibromofluoromethane

Concen: 30.009 ug/l

RT: 7.728 min Scan# 969

Delta R.T. 0.012 min

Lab File: VY017837.D

Acq: 03 Apr 2024 15:46

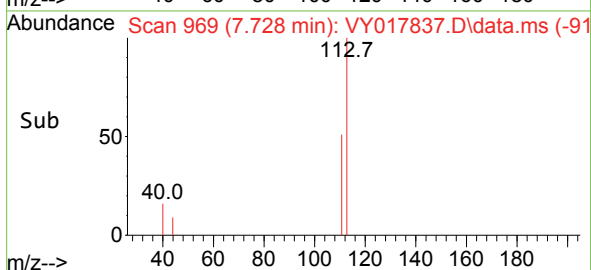
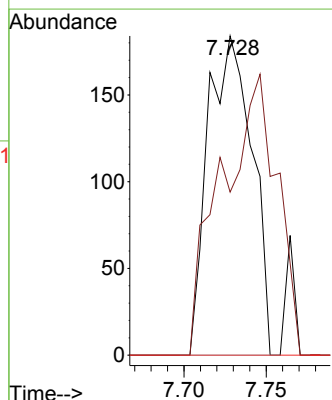
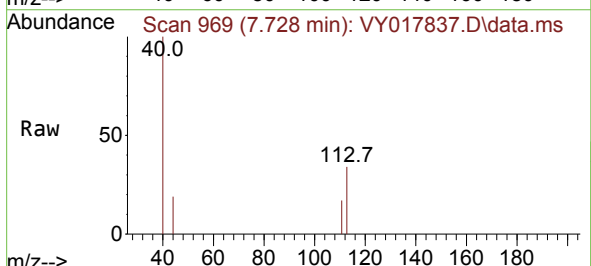
Tgt Ion:113 Resp: 343

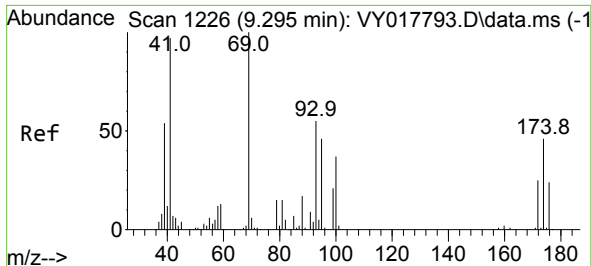
Ion Ratio Lower Upper

113 100

111 110.8 82.2 123.4

192 0.0 15.9 23.9#

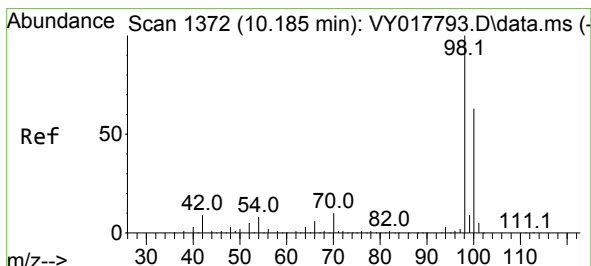
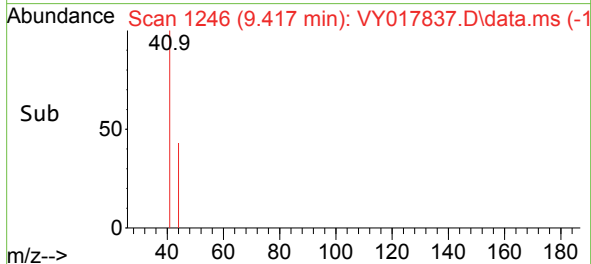
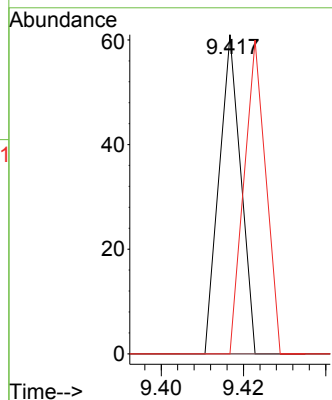
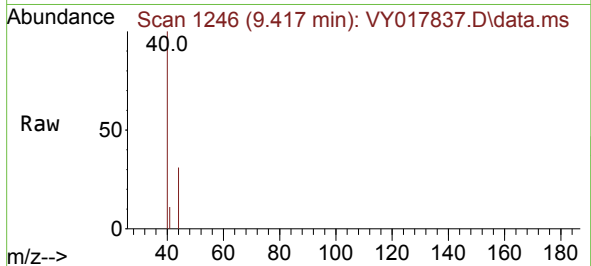




#48
Methyl methacrylate
Concen: 4.449 ug/l
RT: 9.417 min Scan# 11
Delta R.T. 0.122 min
Lab File: VY017837.D
Acq: 03 Apr 2024 15:46

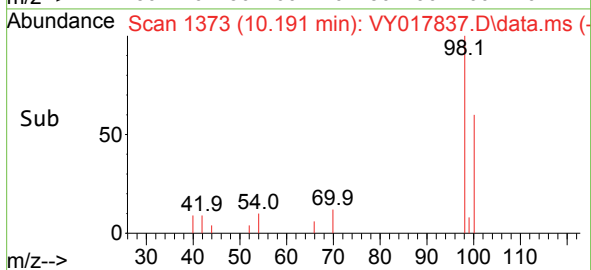
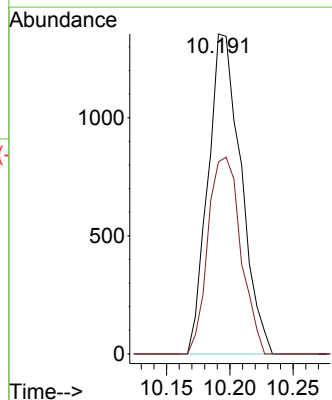
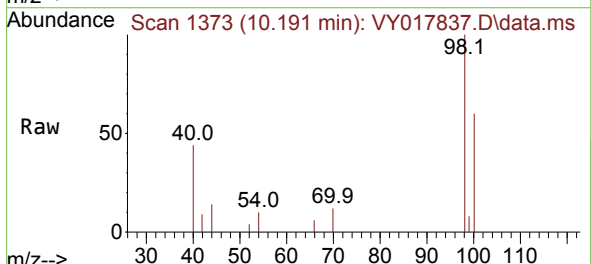
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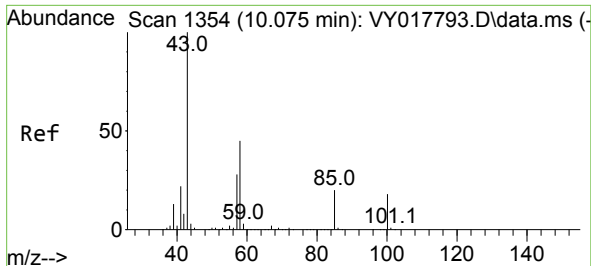
Tgt Ion: 41 Resp: 22
Ion Ratio Lower Upper
41 100
69 0.0 84.1 126.1#
39 100.0 43.6 65.4#



#50
Toluene-d8
Concen: 57.548 ug/l
RT: 10.191 min Scan# 1373
Delta R.T. 0.006 min
Lab File: VY017837.D
Acq: 03 Apr 2024 15:46

Tgt Ion: 98 Resp: 2457
Ion Ratio Lower Upper
98 100
100 61.1 52.0 78.0

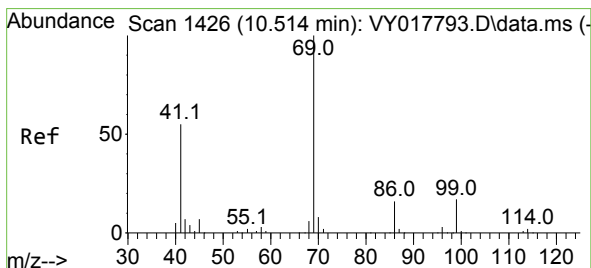
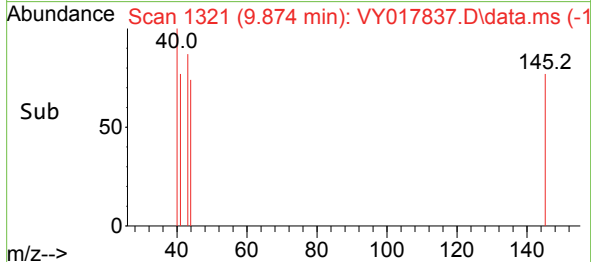
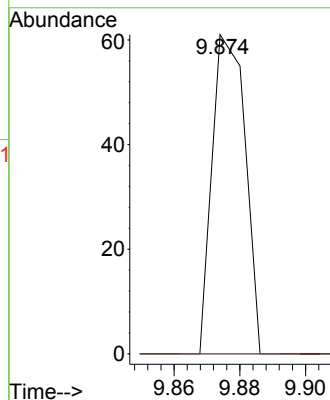
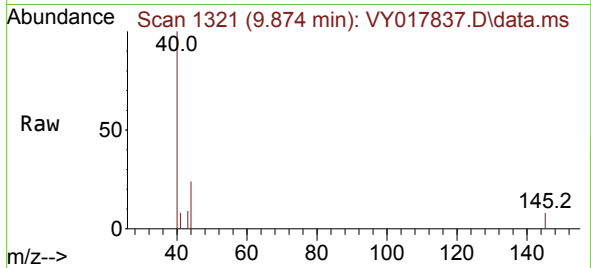




#51
4-Methyl-2-Pentanone
Concen: 1.034 ug/l
RT: 9.874 min Scan# 11
Delta R.T. -0.201 min
Lab File: VY017837.D
Acq: 03 Apr 2024 15:46

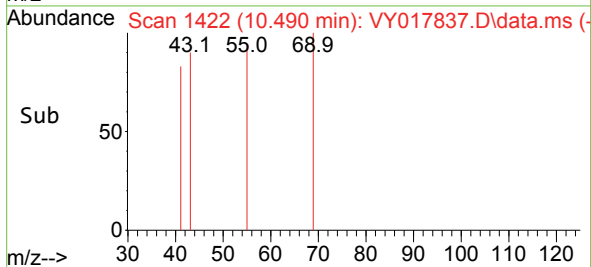
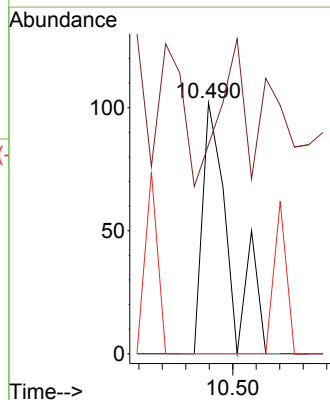
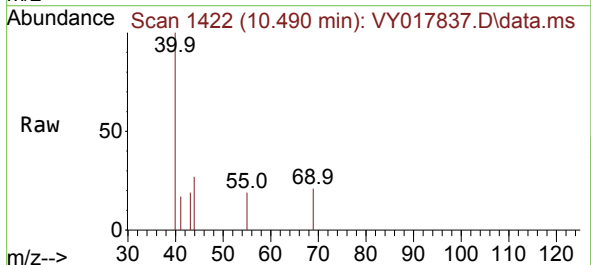
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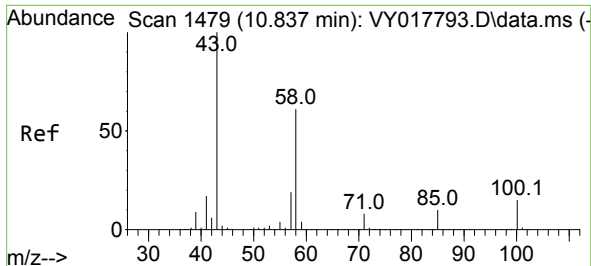
Tgt Ion: 43 Resp: 42
Ion Ratio Lower Upper
43 100
58 0.0 35.7 53.5#



#56
Ethyl methacrylate
Concen: 8.298 ug/l
RT: 10.490 min Scan# 1422
Delta R.T. -0.024 min
Lab File: VY017837.D
Acq: 03 Apr 2024 15:46

Tgt Ion: 69 Resp: 80
Ion Ratio Lower Upper
69 100
41 43.8 42.3 63.5
39 0.0 22.9 34.3#





#59

2-Hexanone

Concen: 11.259 ug/l

RT: 10.898 min Scan# 1479

Delta R.T. 0.061 min

Lab File: VY017837.D

Acq: 03 Apr 2024 15:46

Instrument :

MSVOA_Y

ClientSampleId :

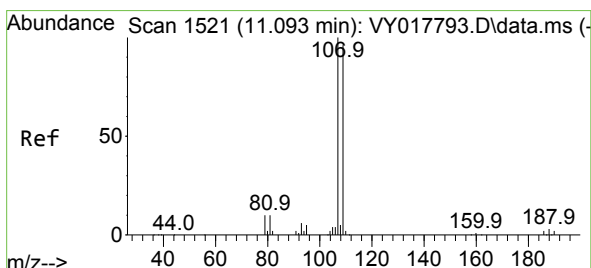
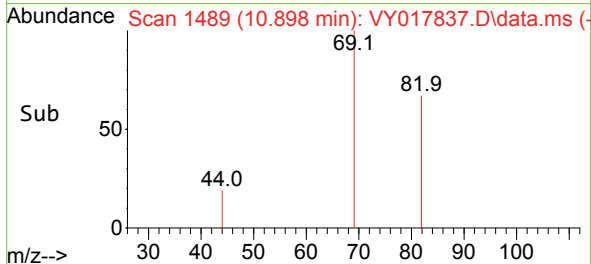
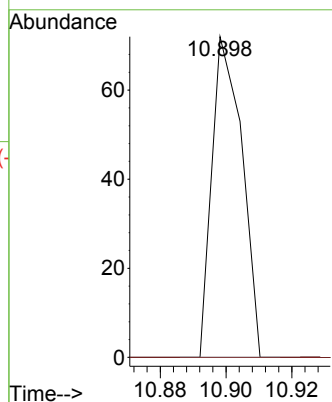
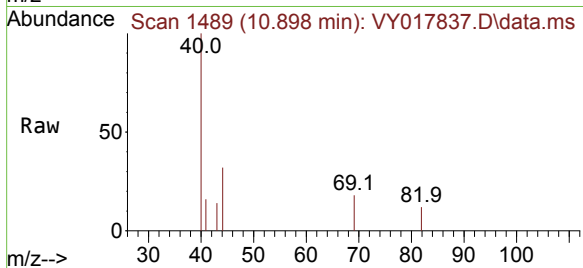
NM-DRUMS-040224RE

Tgt Ion: 43 Resp: 46

Ion Ratio Lower Upper

43 100

58 0.0 31.4 94.0#



#61

1,2-Dibromoethane

Concen: 3.639 ug/l

RT: 11.276 min Scan# 1551

Delta R.T. 0.183 min

Lab File: VY017837.D

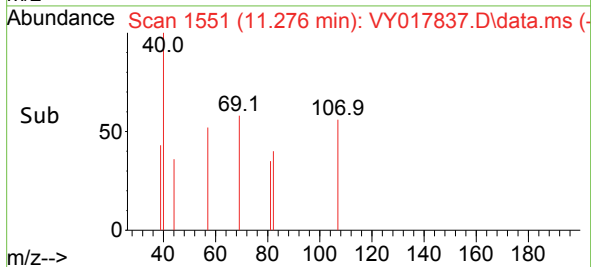
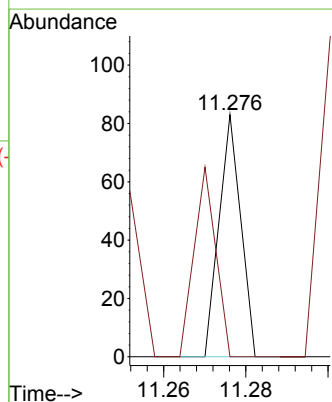
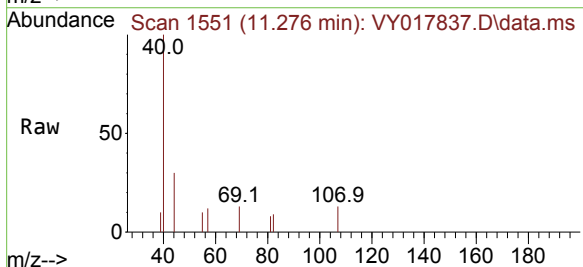
Acq: 03 Apr 2024 15:46

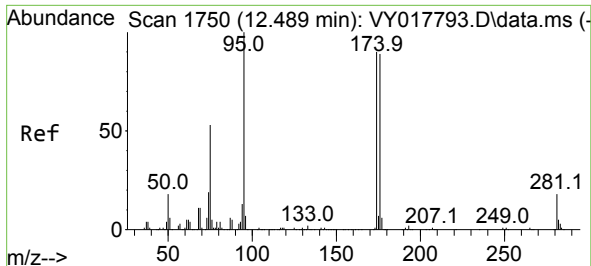
Tgt Ion: 107 Resp: 30

Ion Ratio Lower Upper

107 100

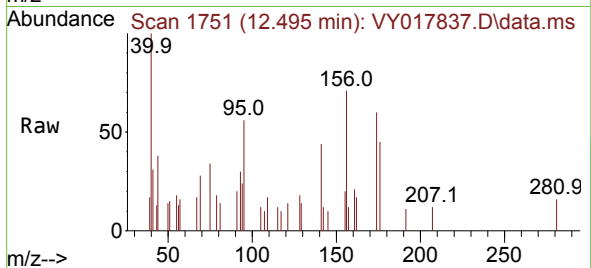
109 80.0 75.9 113.9



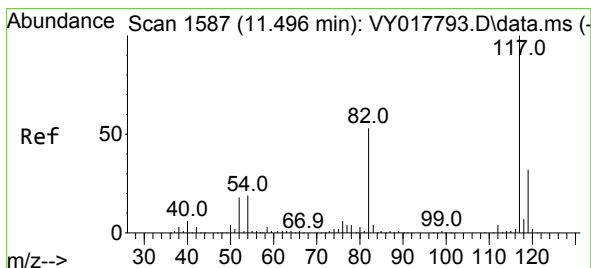
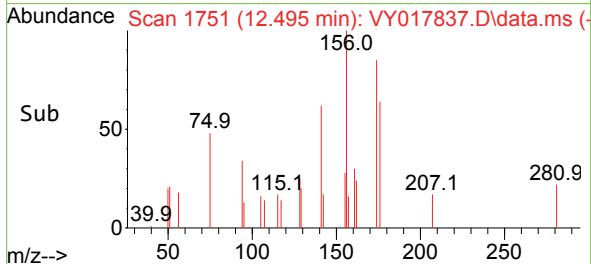
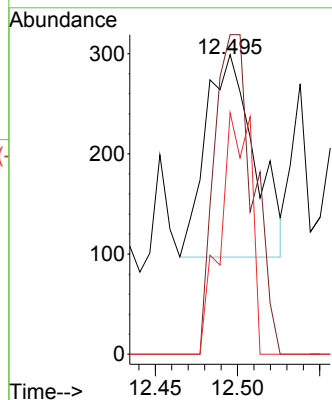


#62
4-Bromofluorobenzene
Concen: 32.102 ug/l
RT: 12.495 min Scan# 1751
Delta R.T. 0.006 min
Lab File: VY017837.D
Acq: 03 Apr 2024 15:46

Instrument :
MSVOA_Y
ClientSampleId :
NM-DRUMS-040224RE

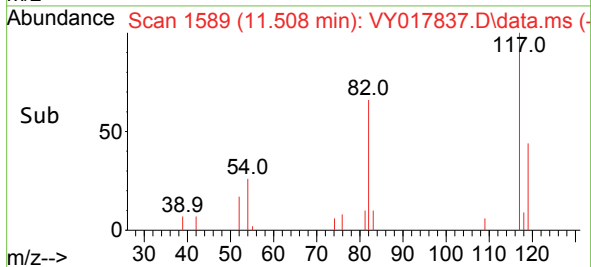
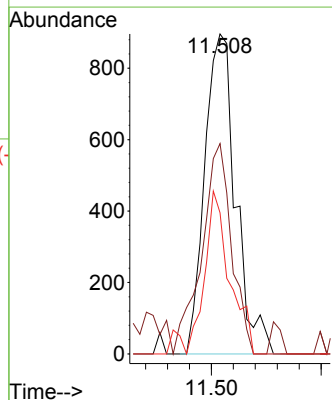
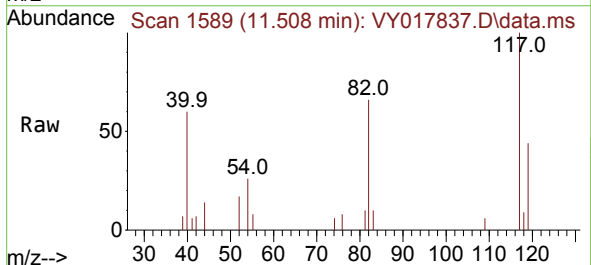


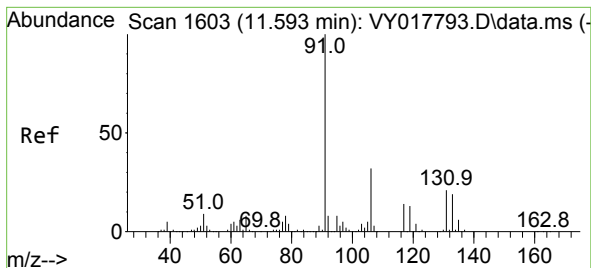
Tgt Ion: 95 Resp: 417
Ion Ratio Lower Upper
95 100
174 126.1 0.0 175.6
176 75.5 0.0 171.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.508 min Scan# 1589
Delta R.T. 0.012 min
Lab File: VY017837.D
Acq: 03 Apr 2024 15:46

Tgt Ion: 117 Resp: 1754
Ion Ratio Lower Upper
117 100
82 58.3 42.4 63.6
119 44.1 25.9 38.9#

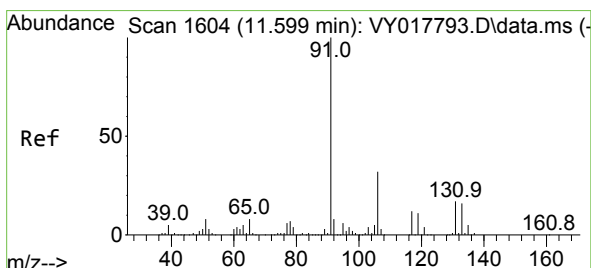
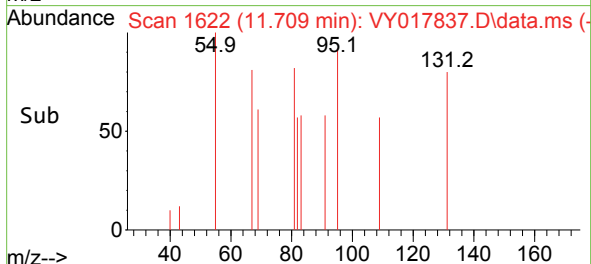
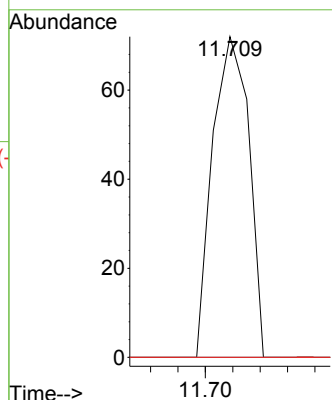
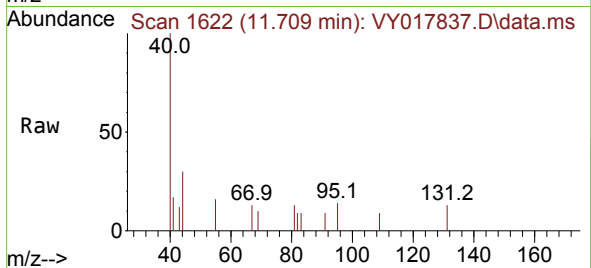




#66
 1,1,1,2-Tetrachloroethane
 Concen: 5.402 ug/l
 RT: 11.709 min Scan# 1
 Delta R.T. 0.116 min
 Lab File: VY017837.D
 Acq: 03 Apr 2024 15:46

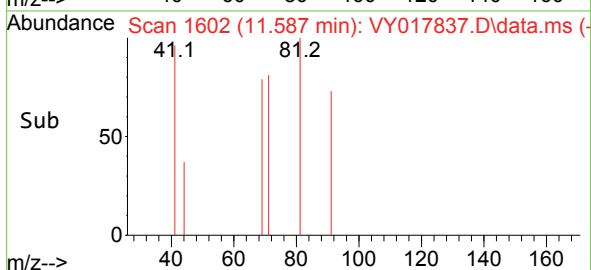
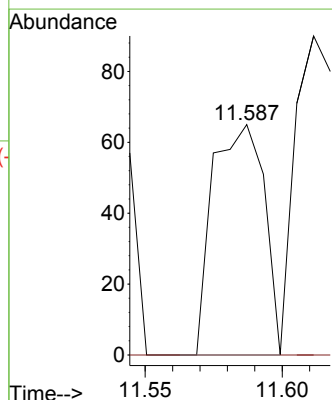
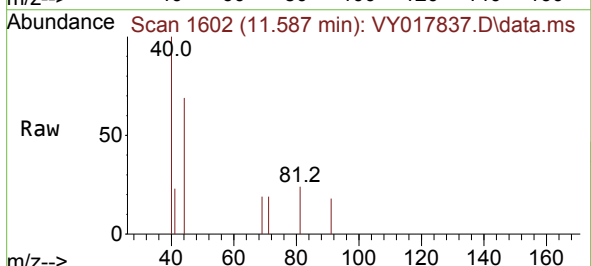
Instrument :
 MSVOA_Y
 ClientSampleId :
 NM-DRUMS-040224RE

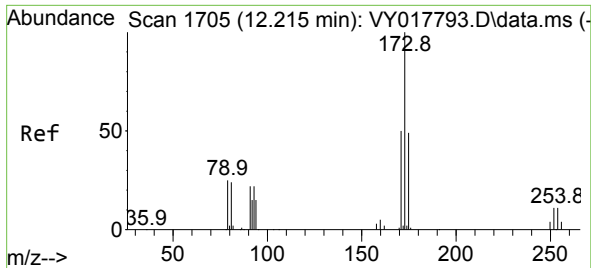
Tgt Ion:131 Resp: 66
 Ion Ratio Lower Upper
 131 100
 133 0.0 47.8 143.3#
 119 0.0 34.1 102.2#



#67
 Ethyl Benzene
 Concen: 1.374 ug/l
 RT: 11.587 min Scan# 1602
 Delta R.T. -0.012 min
 Lab File: VY017837.D
 Acq: 03 Apr 2024 15:46

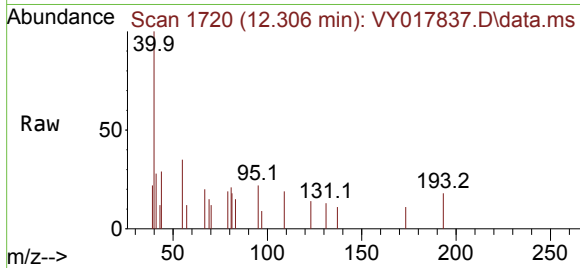
Tgt Ion: 91 Resp: 85
 Ion Ratio Lower Upper
 91 100
 106 0.0 24.5 36.7#



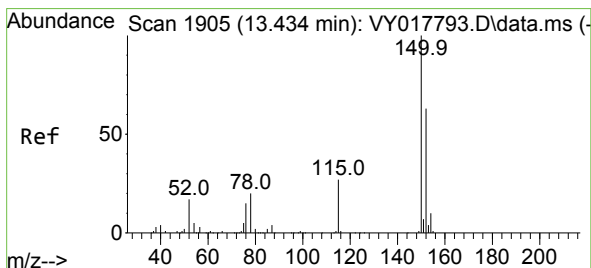
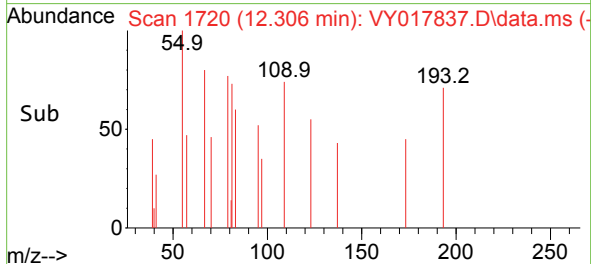
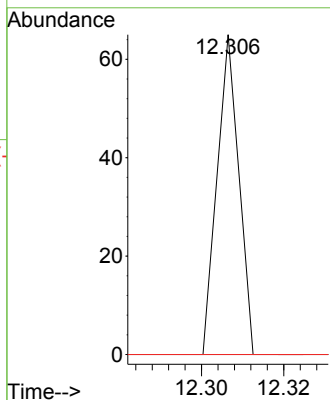


#71
Bromoform
Concen: 3.544 ug/l
RT: 12.306 min Scan# 11
Delta R.T. 0.092 min
Lab File: VY017837.D
Acq: 03 Apr 2024 15:46

Instrument :
MSVOA_Y
ClientSampleId :
NM-DRUMS-040224RE

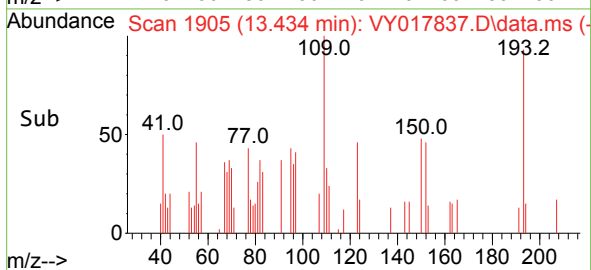
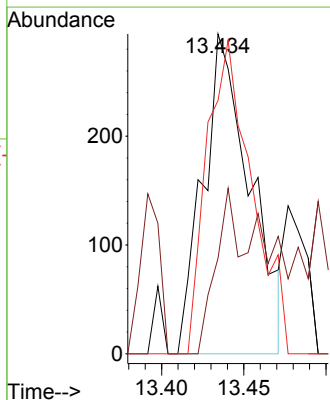
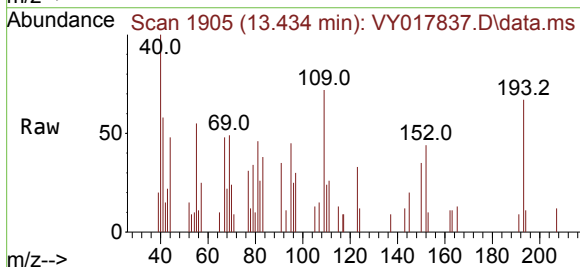


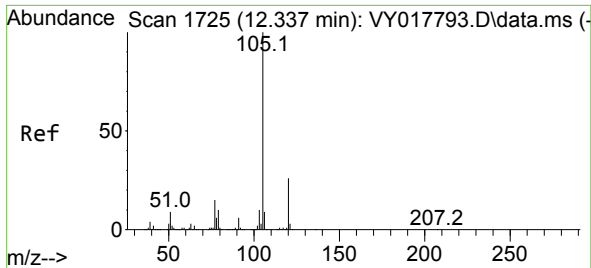
Tgt Ion:173 Resp: 24
Ion Ratio Lower Upper
173 100
175 0.0 25.1 75.3#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.434 min Scan# 1905
Delta R.T. 0.000 min
Lab File: VY017837.D
Acq: 03 Apr 2024 15:46

Tgt Ion:152 Resp: 584
Ion Ratio Lower Upper
152 100
115 29.8 28.2 84.7
150 94.5 0.0 345.6

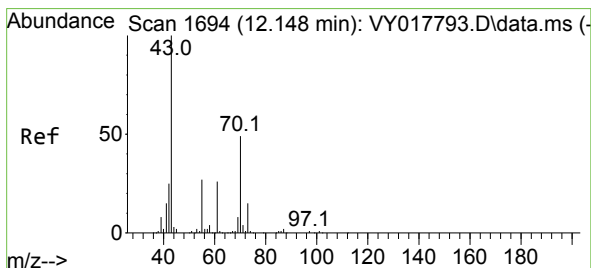
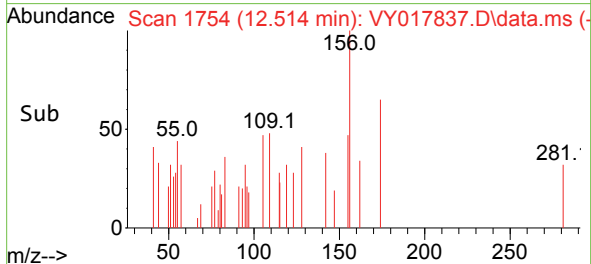
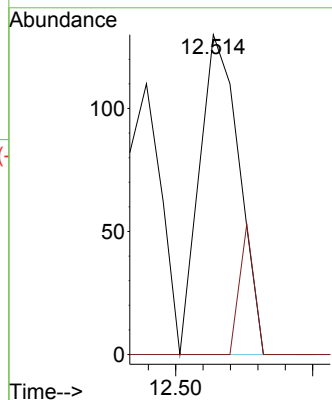
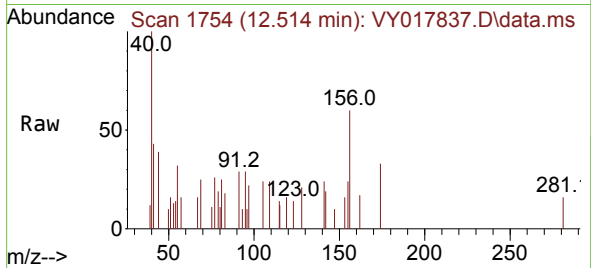




#73
Isopropylbenzene
Concen: 3.201 ug/l
RT: 12.514 min Scan# 1754
Delta R.T. 0.177 min
Lab File: VY017837.D
Acq: 03 Apr 2024 15:46

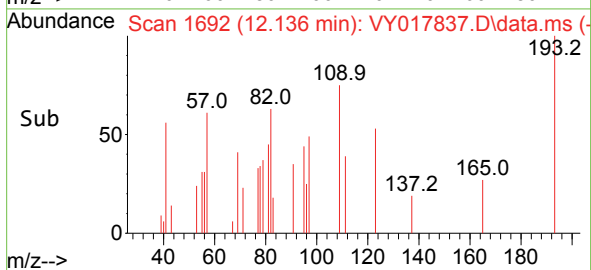
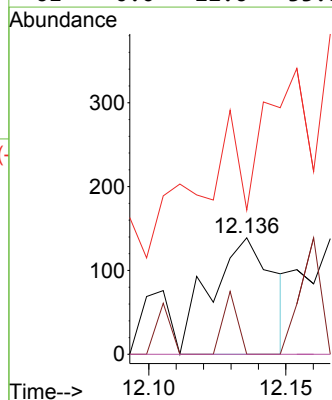
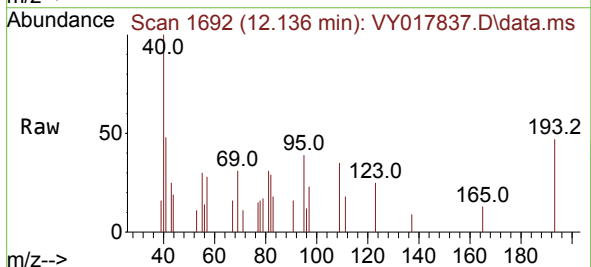
Instrument :
MSVOA_Y
ClientSampleId :
NM-DRUMS-040224RE

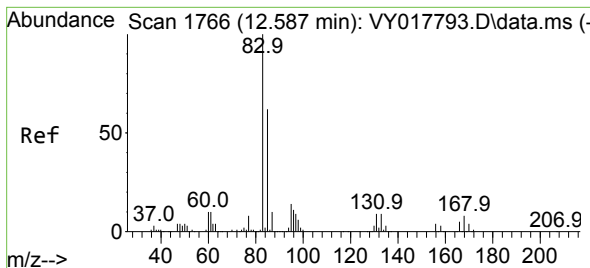
Tgt Ion:105 Resp: 131
Ion Ratio Lower Upper
105 100
120 14.5 13.4 40.1



#74
N-ethyl acetate
Concen: 30.870 ug/l
RT: 12.136 min Scan# 1692
Delta R.T. -0.012 min
Lab File: VY017837.D
Acq: 03 Apr 2024 15:46

Tgt Ion: 43 Resp: 222
Ion Ratio Lower Upper
43 100
70 12.2 41.4 62.2#
55 0.0 23.3 34.9#
61 0.0 22.6 33.8#





#75

1,1,2,2-Tetrachloroethane

Concen: 11.159 ug/l

RT: 12.563 min Scan# 1762

Delta R.T. -0.024 min

Lab File: VY017837.D

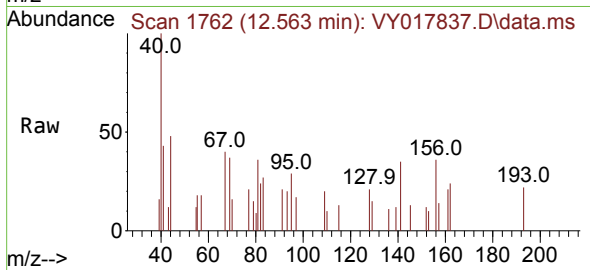
Acq: 03 Apr 2024 15:46

Instrument :

MSVOA_Y

ClientSampleId :

NM-DRUMS-040224RE



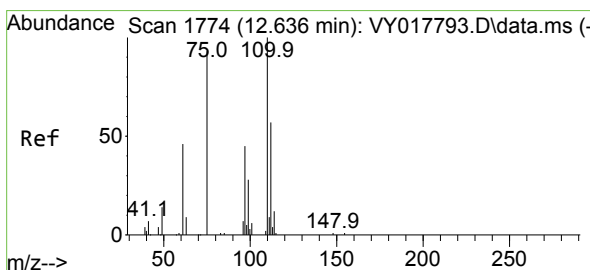
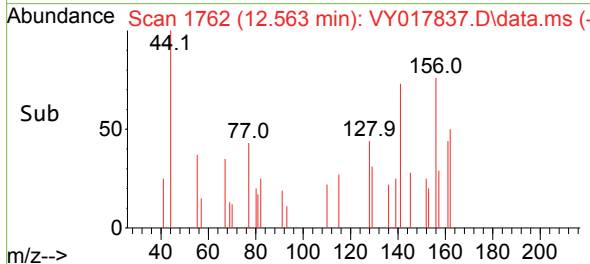
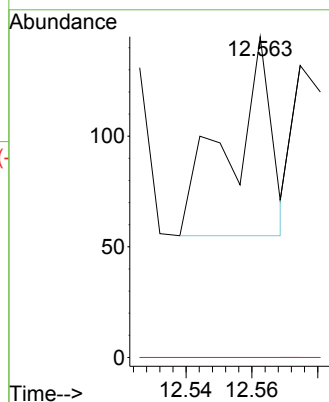
Tgt Ion: 83 Resp: 79

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 0.0 32.0 96.0#



#76

1,2,3-Trichloropropane

Concen: 51.299 ug/l

RT: 12.495 min Scan# 1751

Delta R.T. -0.140 min

Lab File: VY017837.D

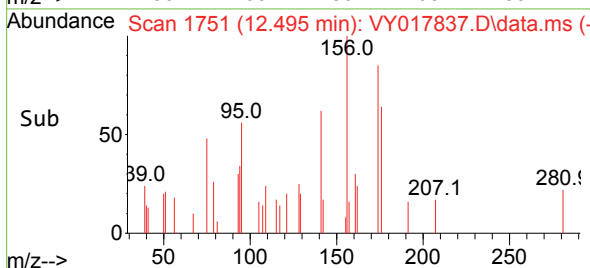
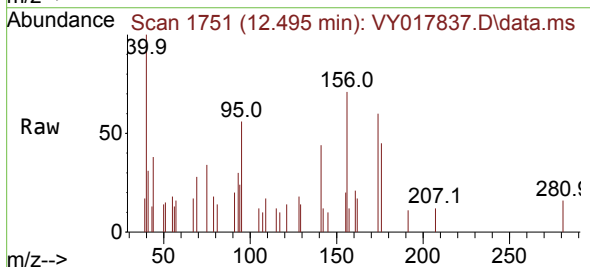
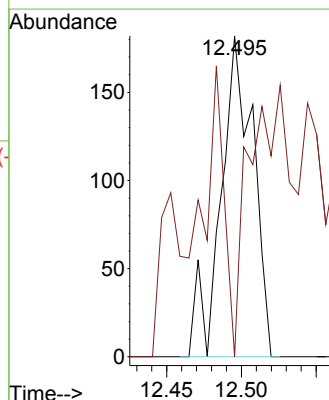
Acq: 03 Apr 2024 15:46

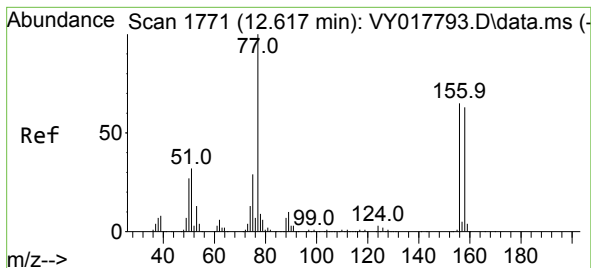
Tgt Ion: 75 Resp: 273

Ion Ratio Lower Upper

75 100

77 53.5 0.0 0.0#





#77

Bromobenzene

Concen: 7.797 ug/l

RT: 12.532 min Scan# 1757

Delta R.T. -0.085 min

Lab File: VY017837.D

Acq: 03 Apr 2024 15:46

Instrument :

MSVOA_Y

ClientSampleId :

NM-DRUMS-040224RE

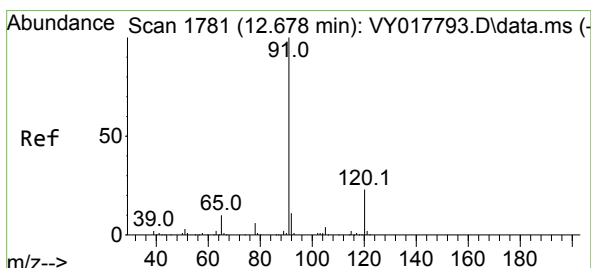
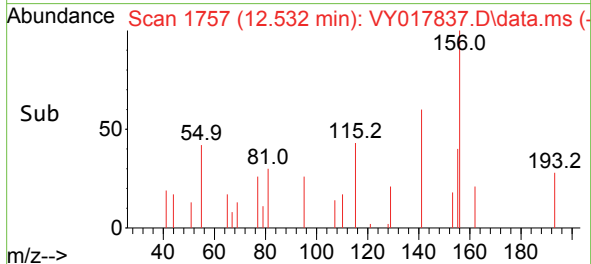
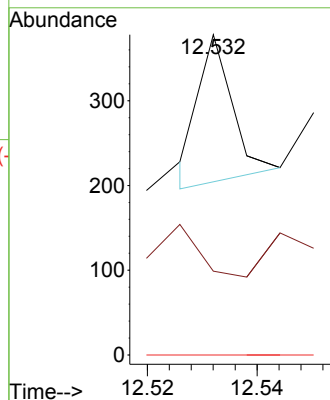
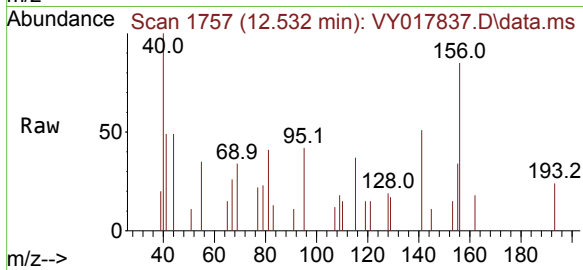
Tgt Ion:156 Resp: 76

Ion Ratio Lower Upper

156 100

77 398.7 87.1 261.3#

158 0.0 48.6 145.9#



#78

n-propylbenzene

Concen: 3.304 ug/l

RT: 12.599 min Scan# 1768

Delta R.T. -0.079 min

Lab File: VY017837.D

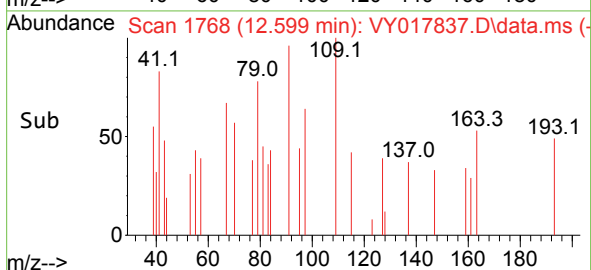
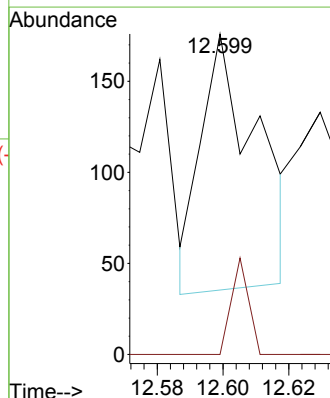
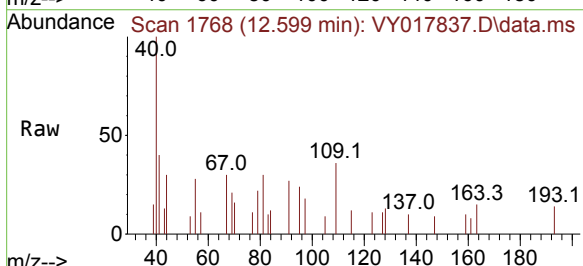
Acq: 03 Apr 2024 15:46

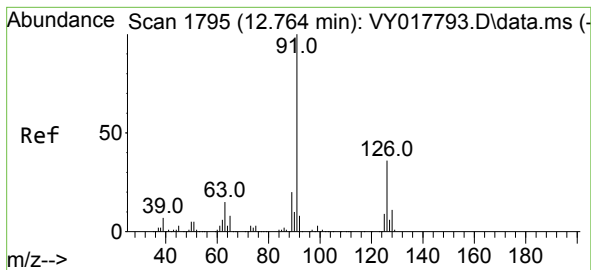
Tgt Ion: 91 Resp: 165

Ion Ratio Lower Upper

91 100

120 11.5 11.5 34.4

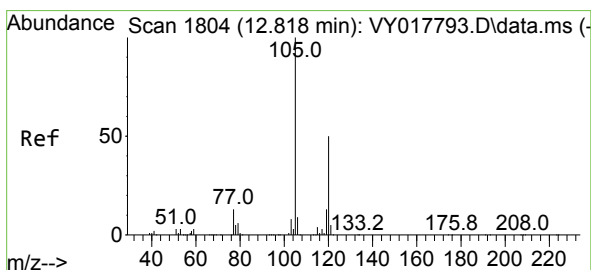
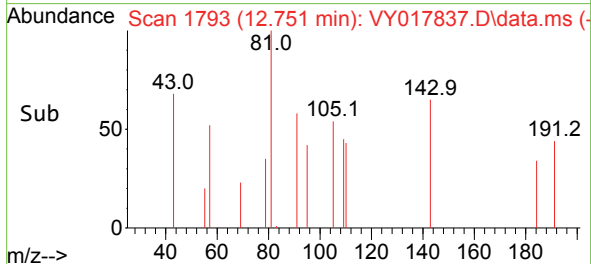
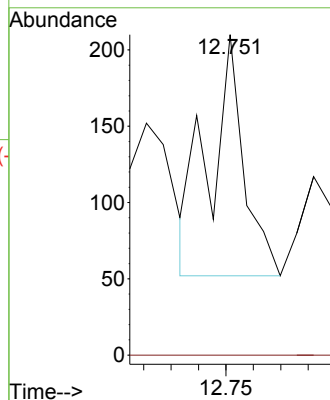
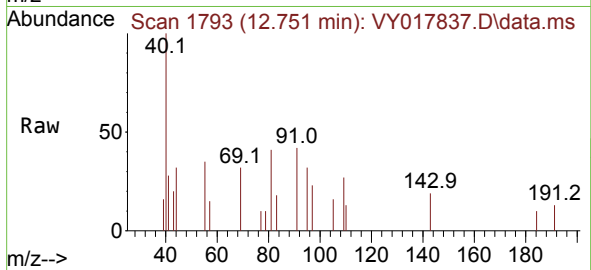




#79
2-Chlorotoluene
Concen: 5.008 ug/l
RT: 12.751 min Scan# 1793
Delta R.T. -0.012 min
Lab File: VY017837.D
Acq: 03 Apr 2024 15:46

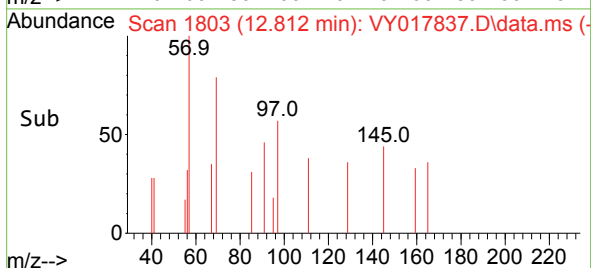
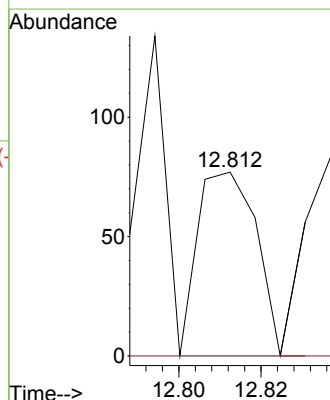
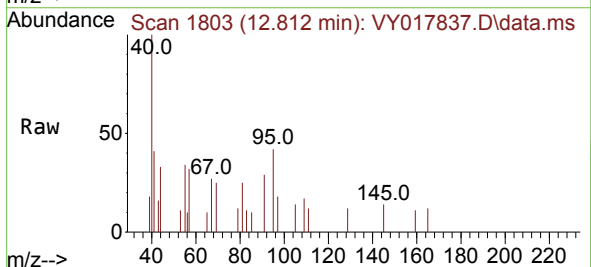
Instrument :
MSVOA_Y
ClientSampleId :
NM-DRUMS-040224RE

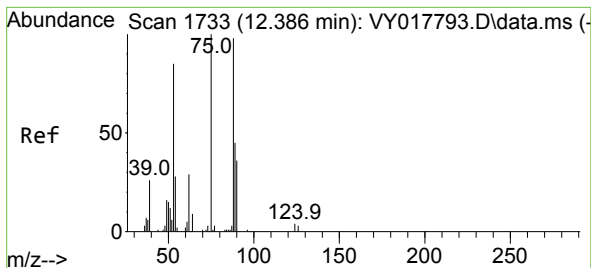
Tgt Ion: 91 Resp: 137
Ion Ratio Lower Upper
91 100
126 0.0 17.8 53.5#



#80
1,3,5-Trimethylbenzene
Concen: 2.379 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. -0.006 min
Lab File: VY017837.D
Acq: 03 Apr 2024 15:46

Tgt Ion: 105 Resp: 76
Ion Ratio Lower Upper
105 100
120 0.0 25.1 75.2#

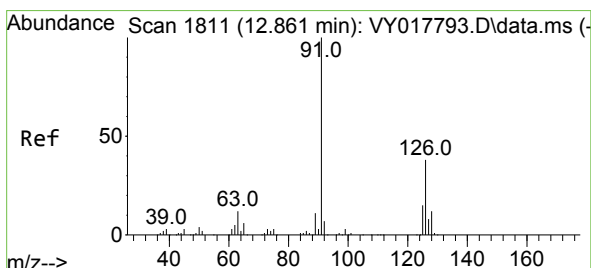
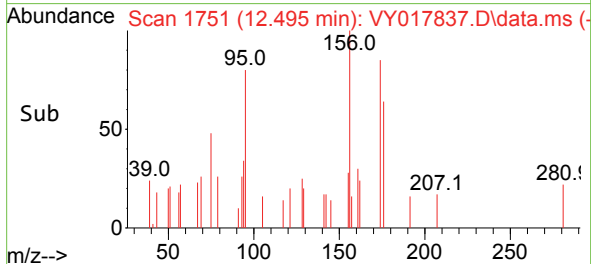
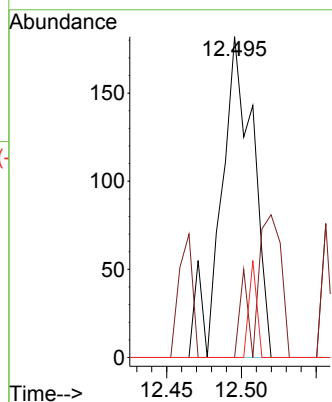
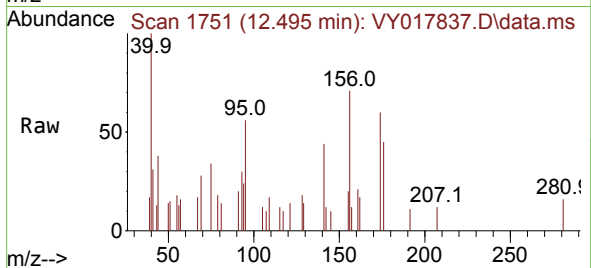




#81
trans-1,4-Dichloro-2-butene
Concen: 101.619 ug/l
RT: 12.495 min Scan# 11
Delta R.T. 0.109 min
Lab File: VY017837.D
Acq: 03 Apr 2024 15:46

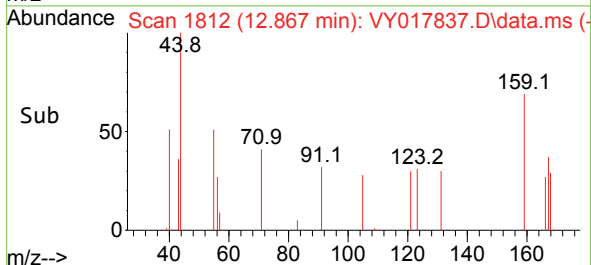
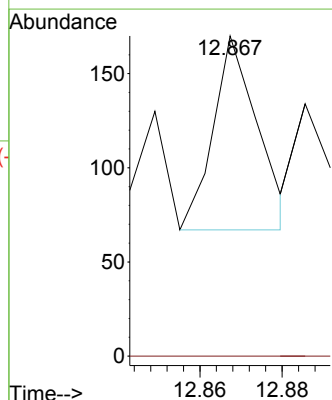
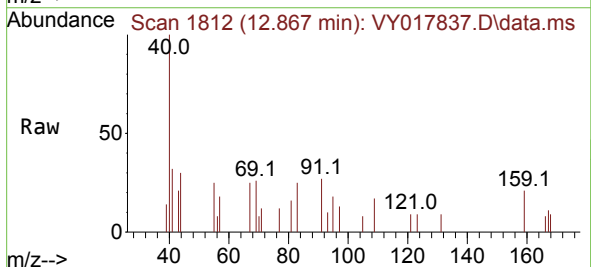
Instrument :
MSVOA_Y
ClientSampleId :
NM-DRUMS-040224RE

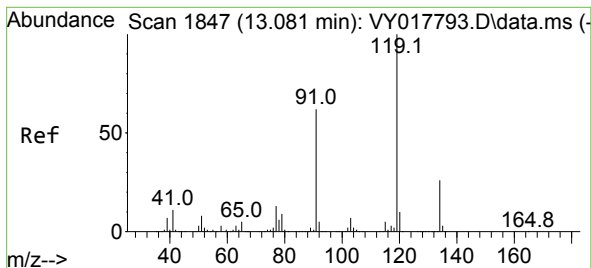
Tgt Ion: 75 Resp: 273
Ion Ratio Lower Upper
75 100
53 0.0 66.8 100.2#
89 0.0 35.8 53.6#



#82
4-Chlorotoluene
Concen: 2.754 ug/l
RT: 12.867 min Scan# 1812
Delta R.T. 0.006 min
Lab File: VY017837.D
Acq: 03 Apr 2024 15:46

Tgt Ion: 91 Resp: 78
Ion Ratio Lower Upper
91 100
126 0.0 17.6 52.9#





#83

tert-Butylbenzene

Concen: 1.033 ug/l

RT: 13.087 min Scan# 1847

Delta R.T. 0.006 min

Lab File: VY017837.D

Acq: 03 Apr 2024 15:46

Instrument :

MSVOA_Y

ClientSampleId :

NM-DRUMS-040224RE

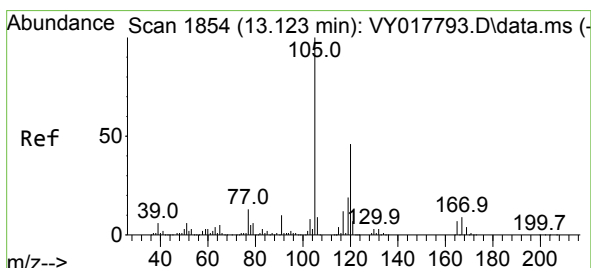
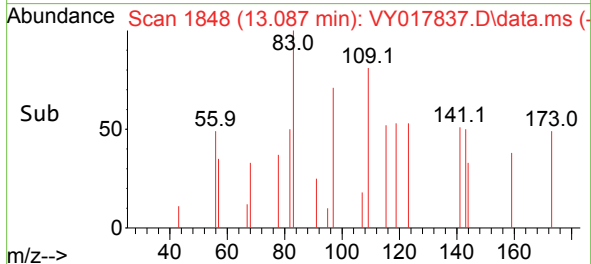
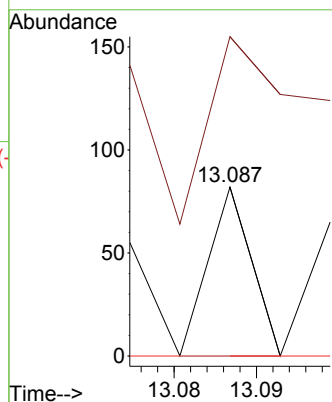
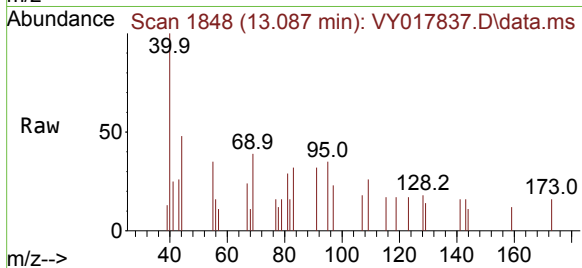
Tgt Ion:119 Resp: 30

Ion Ratio Lower Upper

119 100

91 293.3 31.3 93.8#

134 0.0 13.4 40.1#



#84

1,2,4-Trimethylbenzene

Concen: 21.565 ug/l

RT: 13.136 min Scan# 1856

Delta R.T. 0.012 min

Lab File: VY017837.D

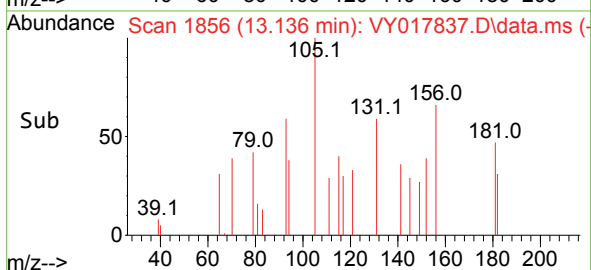
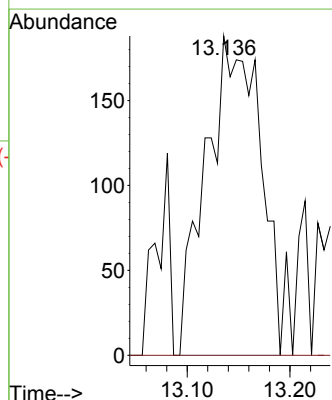
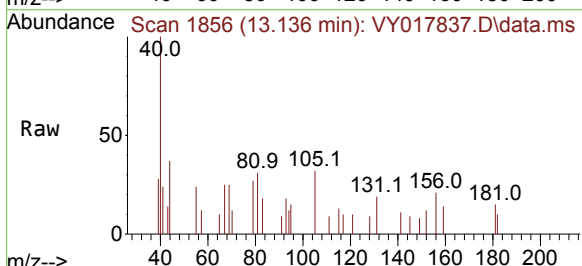
Acq: 03 Apr 2024 15:46

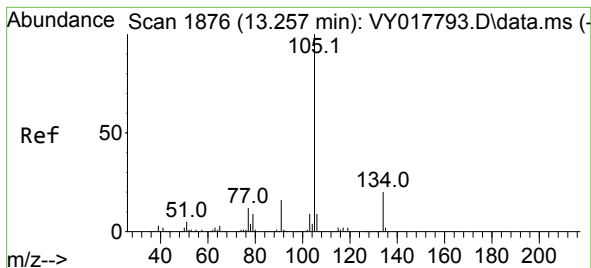
Tgt Ion:105 Resp: 686

Ion Ratio Lower Upper

105 100

120 0.0 23.2 69.6#





#85

sec-Butylbenzene

Concen: 4.222 ug/l

RT: 13.264 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY017837.D

Acq: 03 Apr 2024 15:46

Instrument :

MSVOA_Y

ClientSampleId :

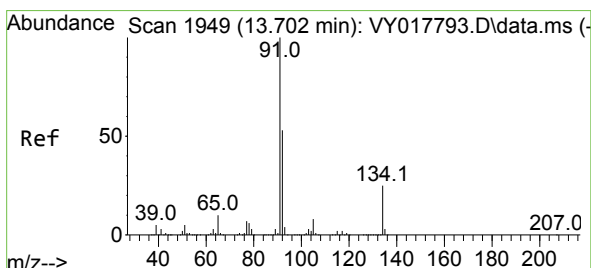
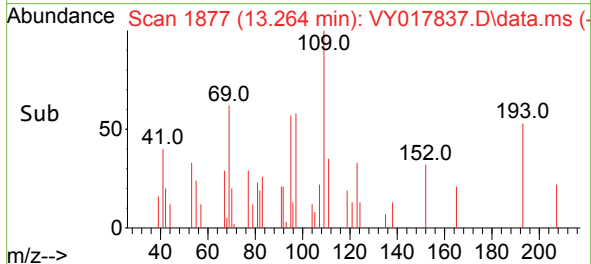
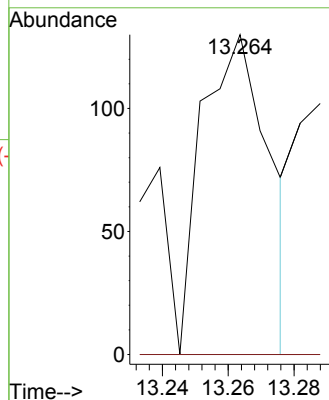
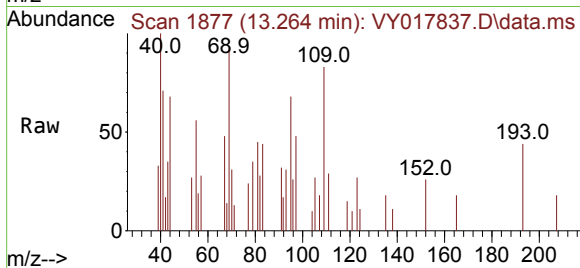
NM-DRUMS-040224RE

Tgt Ion:105 Resp: 184

Ion Ratio Lower Upper

105 100

134 0.0 10.1 30.1#



#89

n-Butylbenzene

Concen: 5.937 ug/l

RT: 13.721 min Scan# 1952

Delta R.T. 0.018 min

Lab File: VY017837.D

Acq: 03 Apr 2024 15:46

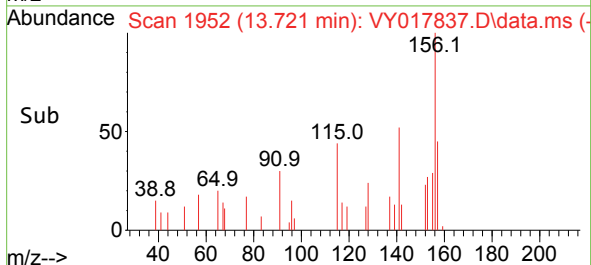
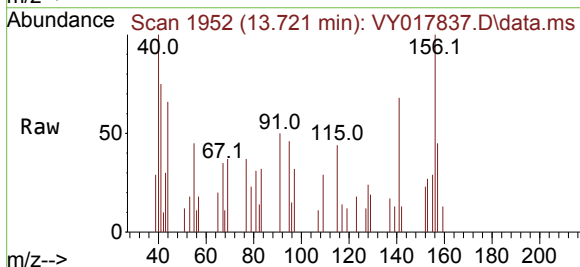
Tgt Ion: 91 Resp: 199

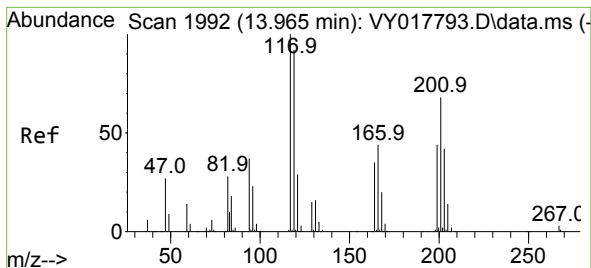
Ion Ratio Lower Upper

91 100

92 0.0 26.6 79.7#

134 0.0 12.9 38.7#





#90

Hexachloroethane

Concen: 4.831 ug/l

RT: 13.971 min Scan# 1992

Delta R.T. 0.006 min

Lab File: VY017837.D

Acq: 03 Apr 2024 15:46

Instrument :

MSVOA_Y

ClientSampleId :

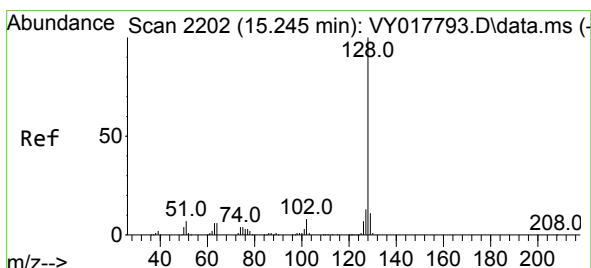
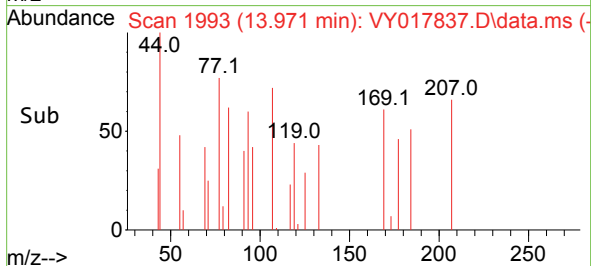
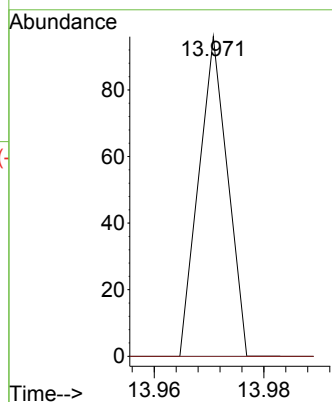
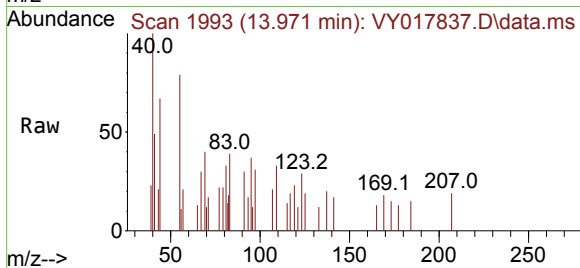
NM-DRUMS-040224RE

Tgt Ion:117 Resp: 35

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.2#



#95

Naphthalene

Concen: 21.602 ug/l

RT: 15.227 min Scan# 2199

Delta R.T. -0.018 min

Lab File: VY017837.D

Acq: 03 Apr 2024 15:46

Tgt Ion:128 Resp: 270

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 13.0#

