

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY061423\
 Data File : VY014162.D
 Acq On : 14 Jun 2023 18:37
 Operator : KP/MD
 Sample : 03186-01RE
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OR-03-061323RE

Quant Time: Jun 15 01:45:21 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060923S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 09 18:07:13 2023
 Response via : Initial Calibration

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

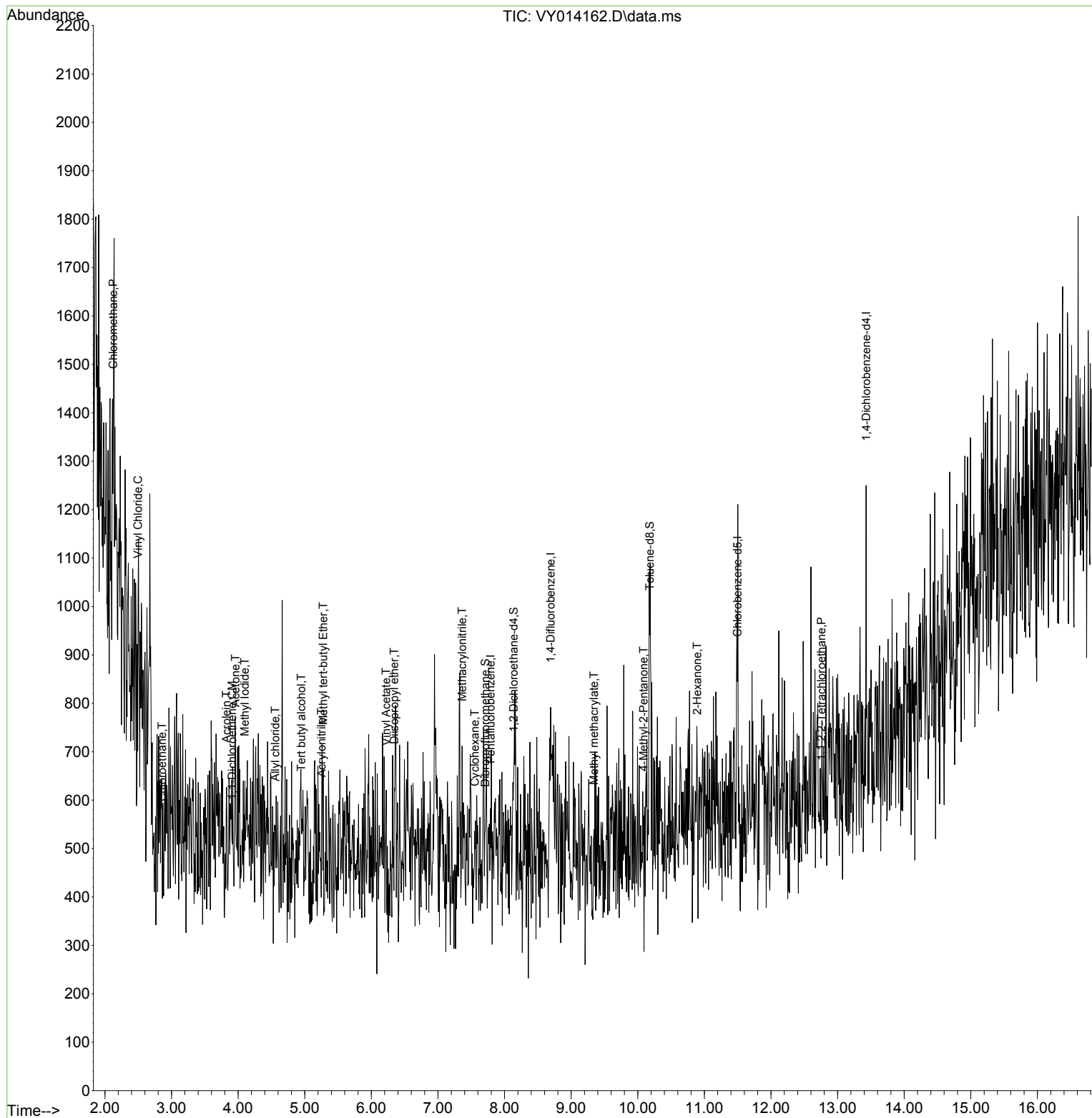
Internal Standards						
1) Pentafluorobenzene	7.789	168	126	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.691	114	557	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	206	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	33	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	343	195.490	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	390.980%#
35) Dibromofluoromethane	7.710	113	102	25.822	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	51.640%#
50) Toluene-d8	10.179	98	468	31.690	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	63.380%
62) 4-Bromofluorobenzene	0.000	95	0	0.000	ug/l	
Spiked Amount	50.000	Range	30 - 143	Recovery	=	0.000%#
Target Compounds						
						Qvalue
3) Chloromethane	2.125	50	19	10.671	ug/l	# 43
4) Vinyl Chloride	2.497	62	24	13.864	ug/l	# 1
6) Chloroethane	2.857	64	20	17.002	ug/l	# 44
10) Methyl Iodide	4.101	142	125	66.695	ug/l	# 38
11) Tert butyl alcohol	4.948	59	27	122.472	ug/l	# 89
12) 1,1-Dichloroethene	3.912	96	20	13.902	ug/l	# 1
13) Acrolein	3.826	56	19	231.908	ug/l	# 14
14) Allyl chloride	4.558	41	19	7.286	ug/l	# 22
15) Acrylonitrile	5.253	53	20	41.291	ug/l	# 68
16) Acetone	3.960	43	38	71.850	ug/l	# 46
19) Methyl tert-butyl Ether	5.277	73	19	4.478	ug/l	# 54
22) Diisopropyl ether	6.344	45	50	10.014	ug/l	# 31
23) Vinyl Acetate	6.222	43	27	9.165	ug/l	# 74
31) Cyclohexane	7.551	56	19	8.084	ug/l	# 17
41) Methacrylonitrile	7.362	41	50	23.057	ug/l	# 17
48) Methyl methacrylate	9.344	41	40	11.516	ug/l	# 49
51) 4-Methyl-2-Pentanone	10.087	43	38	9.392	ug/l	# 39
59) 2-Hexanone	10.892	43	23	7.871	ug/l	# 27
75) 1,1,2,2-Tetrachloroethane	12.758	83	19	33.777	ug/l	# 26

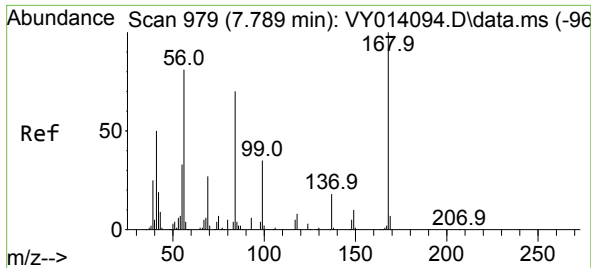
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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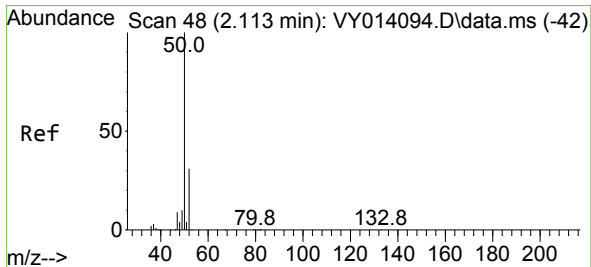
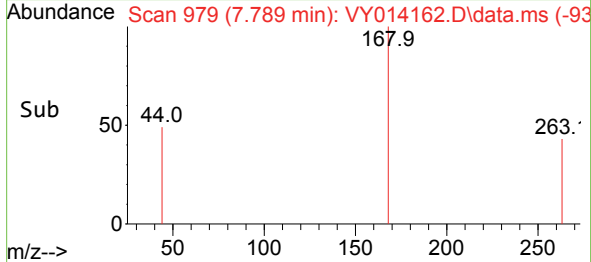
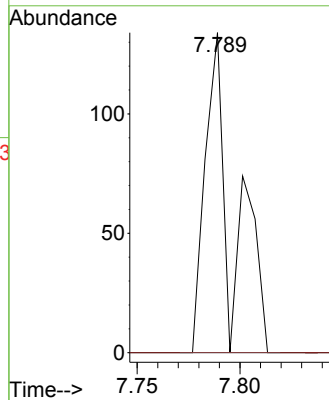
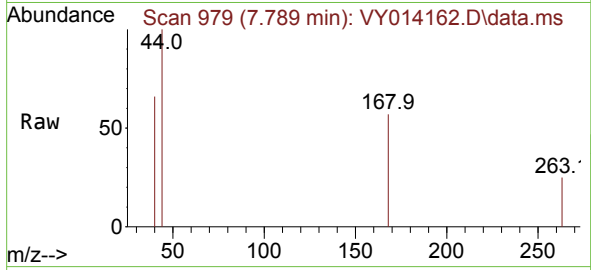




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY014162.D
Acq: 14 Jun 2023 18:37

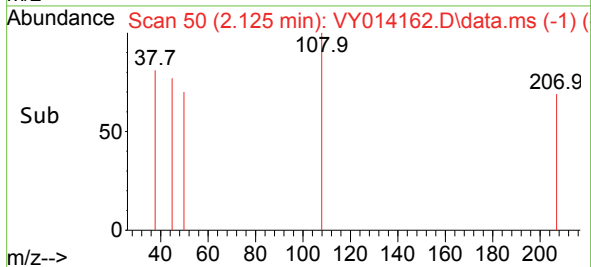
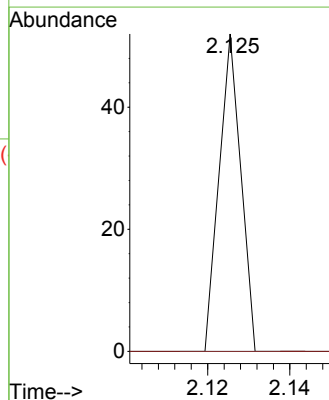
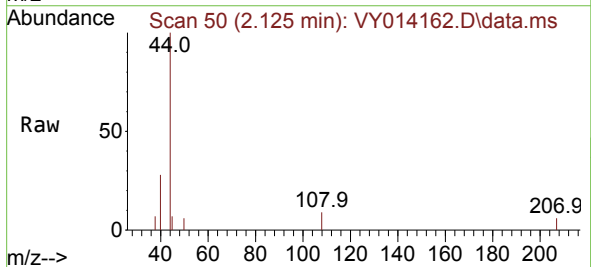
Instrument :
MSVOA_Y
ClientSampleId :
OR-03-061323RE

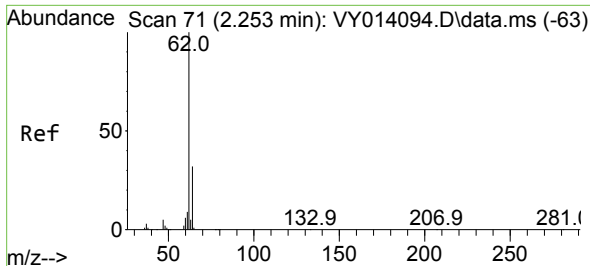
Tgt Ion:168 Resp: 126
Ion Ratio Lower Upper
168 100
99 0.0 43.4 65.0#



#3
Chloromethane
Concen: 10.671 ug/l
RT: 2.125 min Scan# 50
Delta R.T. 0.012 min
Lab File: VY014162.D
Acq: 14 Jun 2023 18:37

Tgt Ion: 50 Resp: 19
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.2#

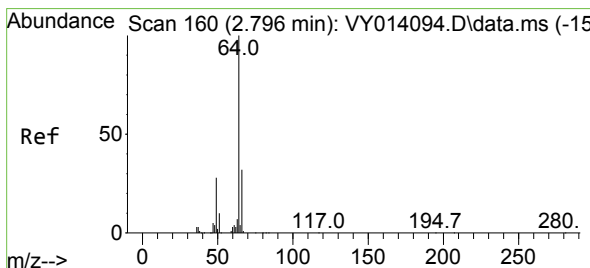
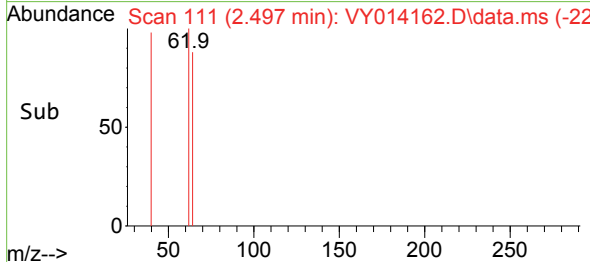
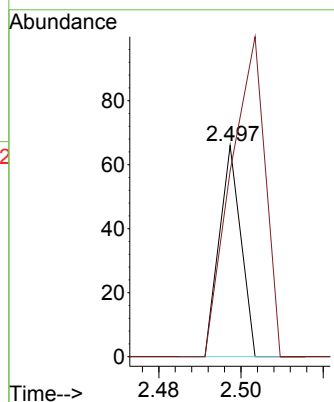
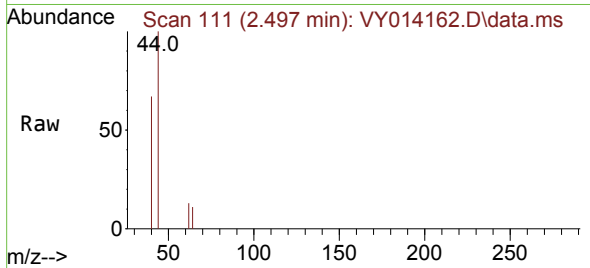




#4
 Vinyl Chloride
 Concen: 13.864 ug/l
 RT: 2.497 min Scan# 111
 Delta R.T. 0.244 min
 Lab File: VY014162.D
 Acq: 14 Jun 2023 18:37

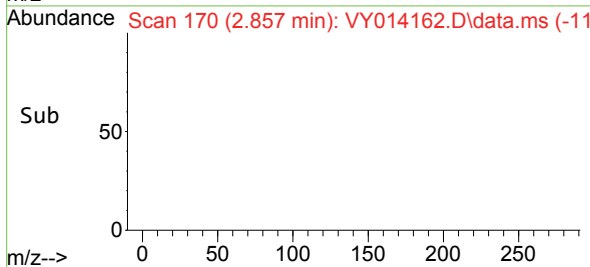
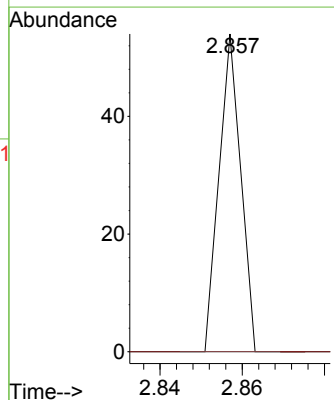
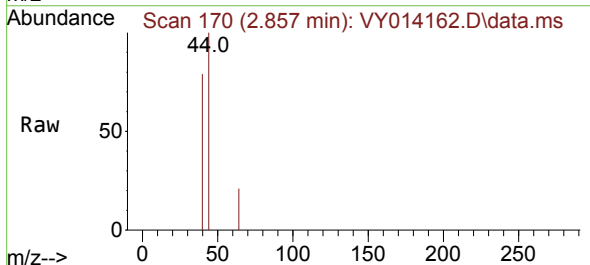
Instrument :
 MSVOA_Y
 ClientSampleId :
 OR-03-061323RE

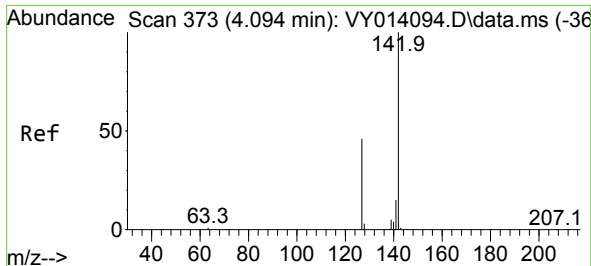
Tgt Ion: 62 Resp: 24
 Ion Ratio Lower Upper
 62 100
 64 87.9 24.3 36.5#



#6
 Chloroethane
 Concen: 17.002 ug/l
 RT: 2.857 min Scan# 170
 Delta R.T. 0.061 min
 Lab File: VY014162.D
 Acq: 14 Jun 2023 18:37

Tgt Ion: 64 Resp: 20
 Ion Ratio Lower Upper
 64 100
 66 0.0 24.4 36.6#

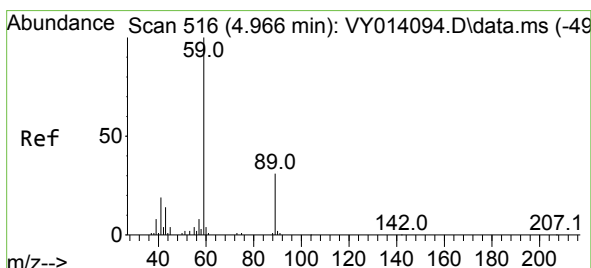
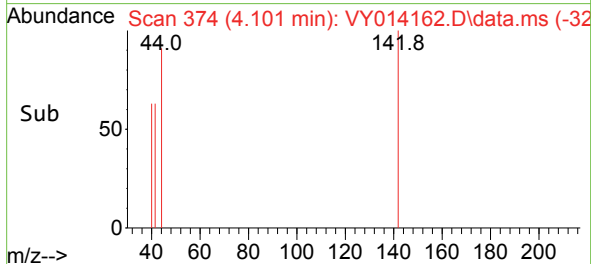
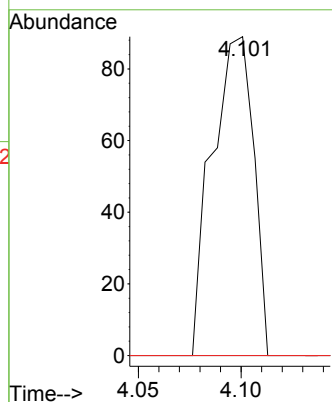
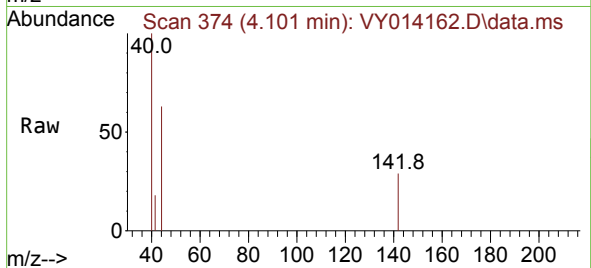




#10
Methyl Iodide
Concen: 66.695 ug/l
RT: 4.101 min Scan# 31
Delta R.T. 0.007 min
Lab File: VY014162.D
Acq: 14 Jun 2023 18:37

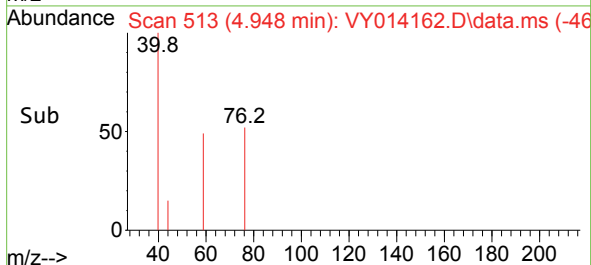
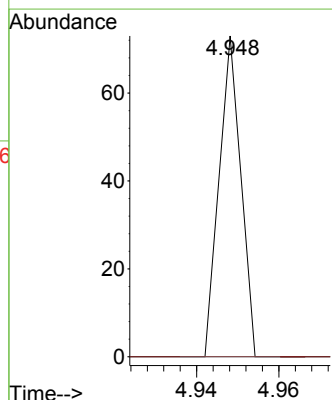
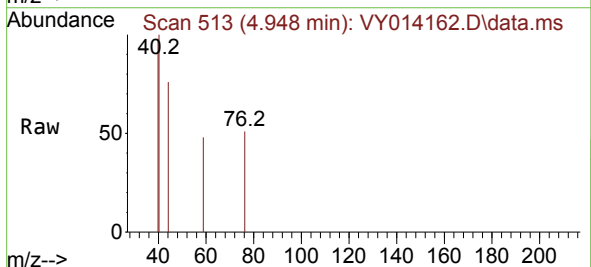
Instrument :
MSVOA_Y
ClientSampleId :
OR-03-061323RE

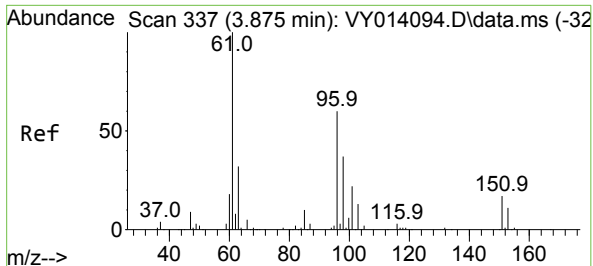
Tgt Ion:142 Resp: 125
Ion Ratio Lower Upper
142 100
127 0.0 37.6 56.4#
141 0.0 11.8 17.8#



#11
Tert butyl alcohol
Concen: 122.472 ug/l
RT: 4.948 min Scan# 513
Delta R.T. -0.018 min
Lab File: VY014162.D
Acq: 14 Jun 2023 18:37

Tgt Ion: 59 Resp: 27
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#





#12

1,1-Dichloroethene

Concen: 13.902 ug/l

RT: 3.912 min Scan# 341

Delta R.T. 0.037 min

Lab File: VY014162.D

Acq: 14 Jun 2023 18:37

Instrument :

MSVOA_Y

ClientSampleId :

OR-03-061323RE

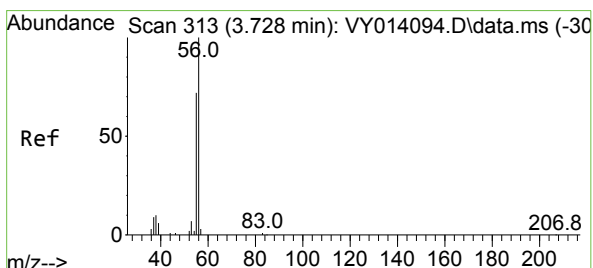
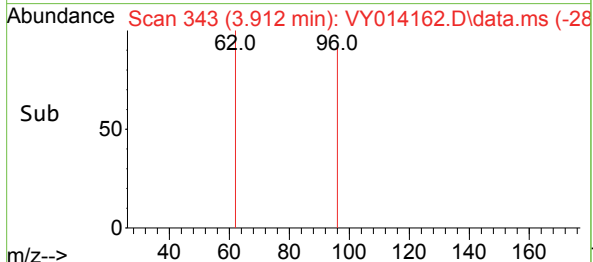
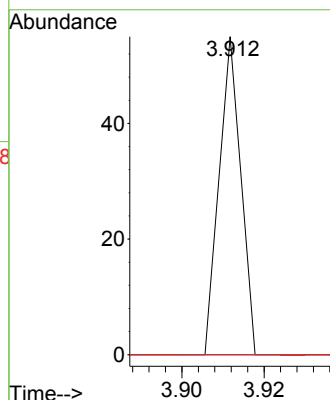
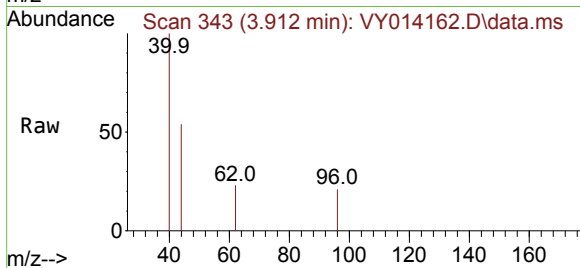
Tgt Ion: 96 Resp: 20

Ion Ratio Lower Upper

96 100

61 0.0 136.4 204.6#

98 0.0 49.4 74.2#



#13

Acrolein

Concen: 231.908 ug/l

RT: 3.826 min Scan# 329

Delta R.T. 0.098 min

Lab File: VY014162.D

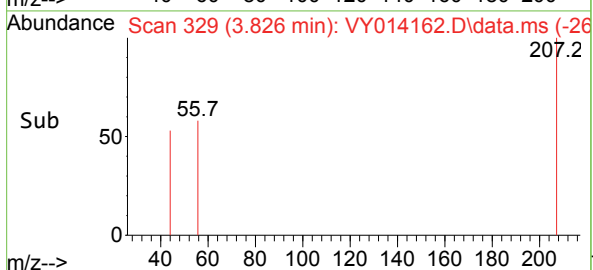
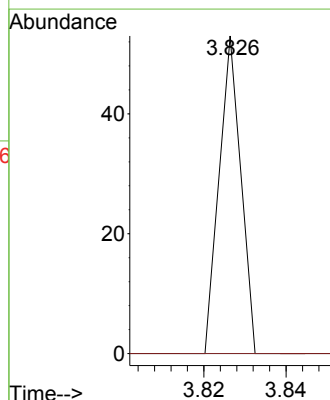
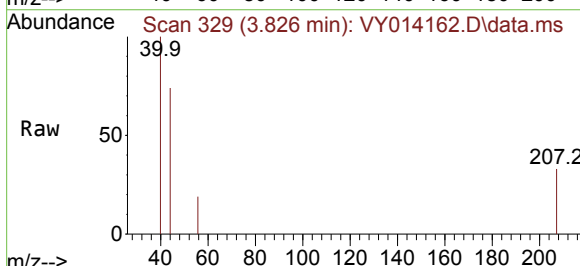
Acq: 14 Jun 2023 18:37

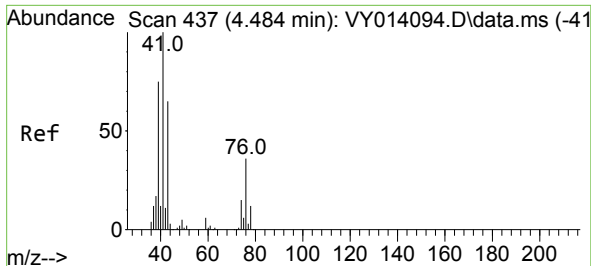
Tgt Ion: 56 Resp: 19

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#

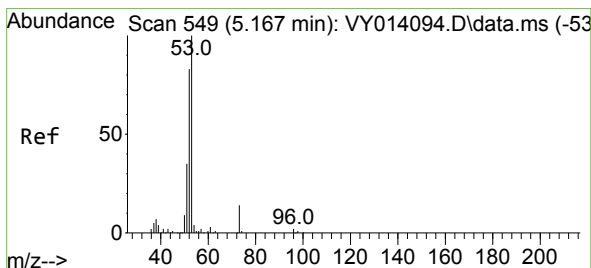
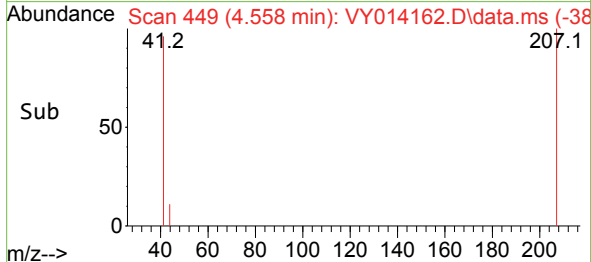
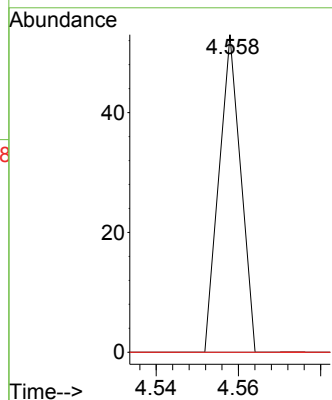
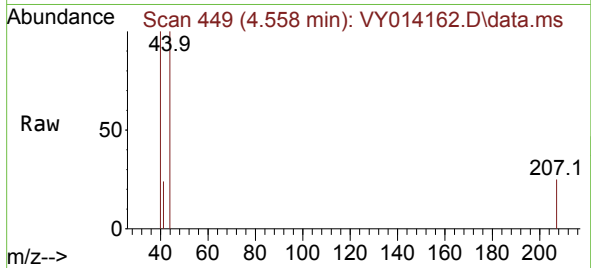




#14
 Allyl chloride
 Concen: 7.286 ug/l
 RT: 4.558 min Scan# 449
 Delta R.T. 0.074 min
 Lab File: VY014162.D
 Acq: 14 Jun 2023 18:37

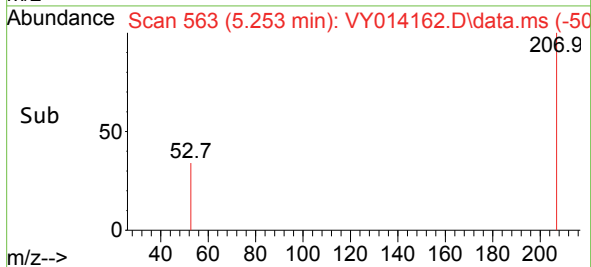
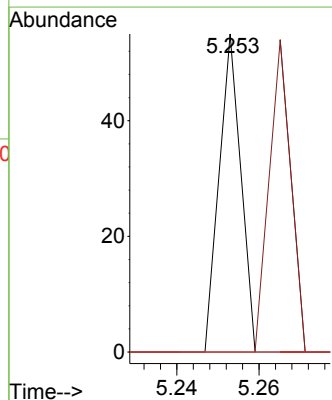
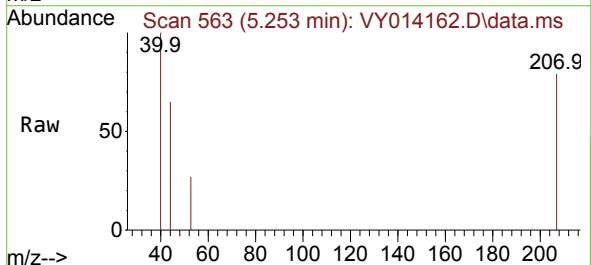
Instrument :
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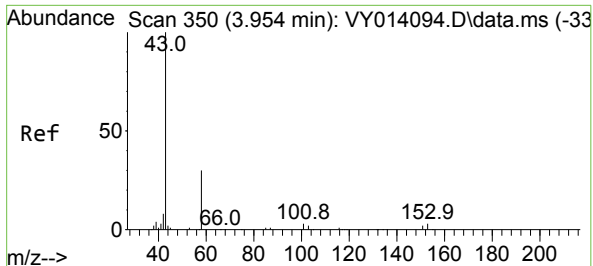
Tgt Ion: 41	Resp:	19
Ion Ratio	Lower	Upper
41 100		
39 0.0	58.0	87.0#
76 0.0	27.4	41.2#



#15
 Acrylonitrile
 Concen: 41.291 ug/l
 RT: 5.253 min Scan# 563
 Delta R.T. 0.086 min
 Lab File: VY014162.D
 Acq: 14 Jun 2023 18:37

Tgt Ion: 53	Resp: 20
Ion Ratio	Lower Upper
53 100	
52 100.0	66.9 100.3
51 0.0	29.8 44.6#





#16

Acetone

Concen: 71.850 ug/l

RT: 3.960 min Scan# 31

Delta R.T. 0.006 min

Lab File: VY014162.D

Acq: 14 Jun 2023 18:37

Instrument :

MSVOA_Y

ClientSampleId :

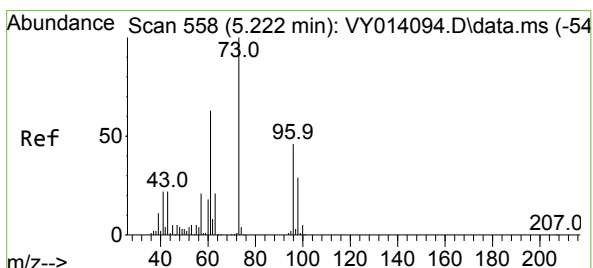
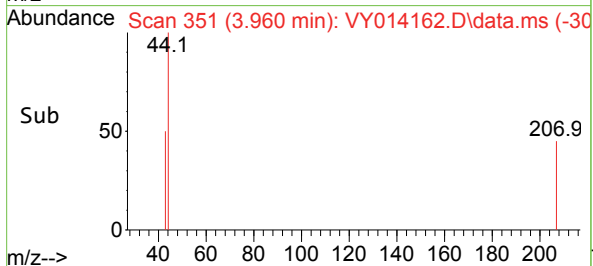
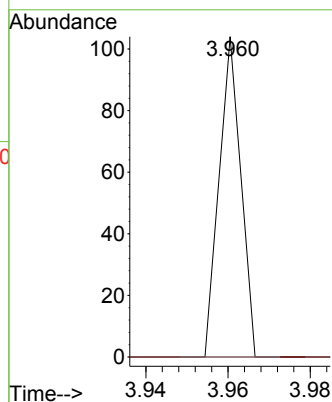
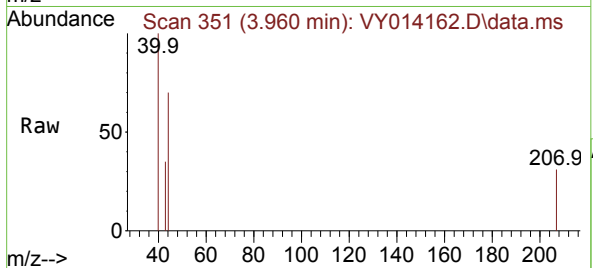
OR-03-061323RE

Tgt Ion: 43 Resp: 38

Ion Ratio Lower Upper

43 100

58 0.0 22.7 34.1#



#19

Methyl tert-butyl Ether

Concen: 4.478 ug/l

RT: 5.277 min Scan# 567

Delta R.T. 0.055 min

Lab File: VY014162.D

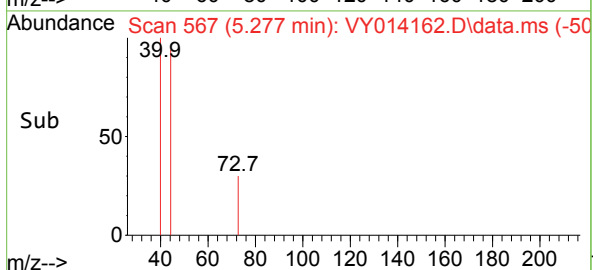
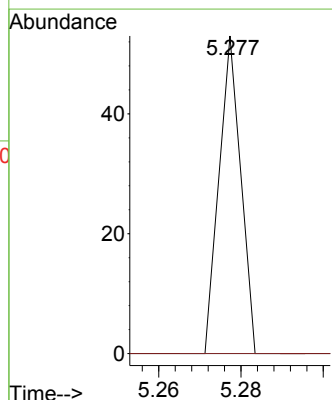
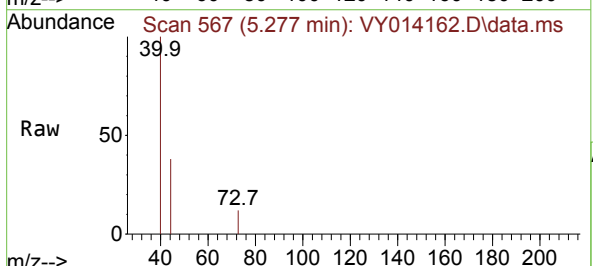
Acq: 14 Jun 2023 18:37

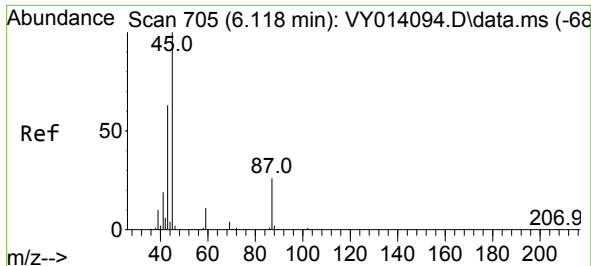
Tgt Ion: 73 Resp: 19

Ion Ratio Lower Upper

73 100

57 0.0 17.3 25.9#

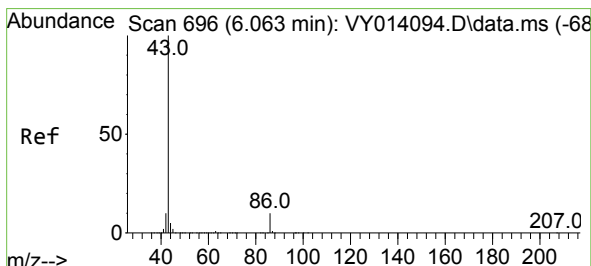
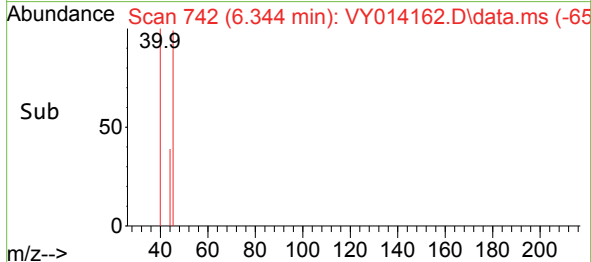
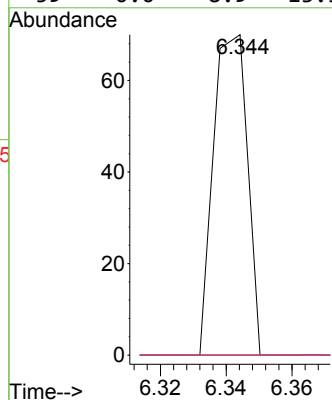
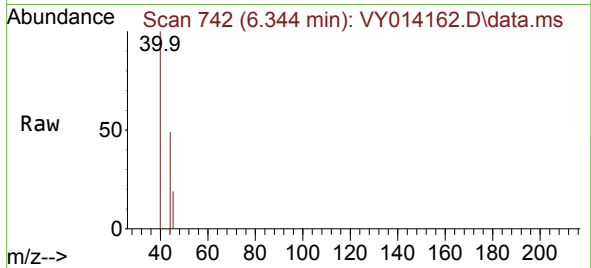




#22
Diisopropyl ether
Concen: 10.014 ug/l
RT: 6.344 min Scan# 741
Delta R.T. 0.226 min
Lab File: VY014162.D
Acq: 14 Jun 2023 18:37

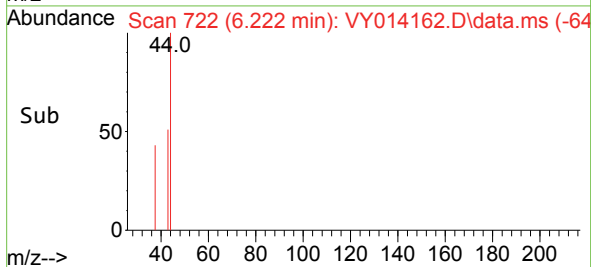
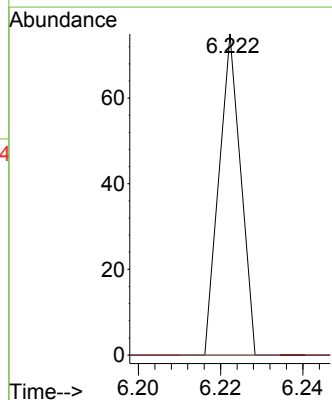
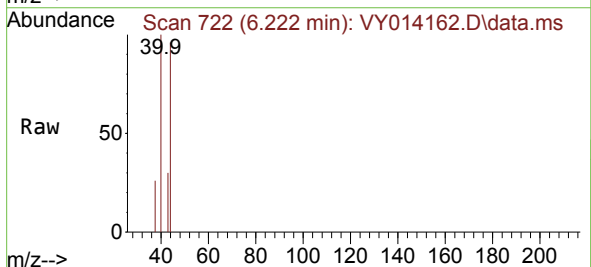
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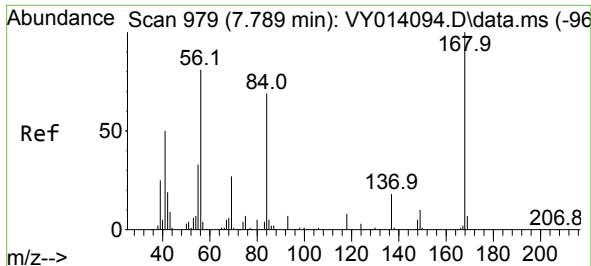
Tgt Ion:	45	Resp:	50
Ion	Ratio	Lower	Upper
45	100		
43	0.0	52.2	78.4#
87	0.0	21.0	31.6#
59	0.0	8.9	13.3#



#23
Vinyl Acetate
Concen: 9.165 ug/l
RT: 6.222 min Scan# 722
Delta R.T. 0.159 min
Lab File: VY014162.D
Acq: 14 Jun 2023 18:37

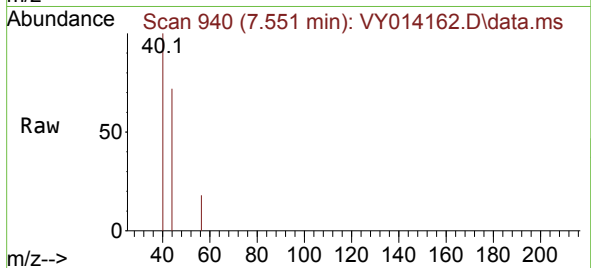
Tgt Ion:	43	Resp:	27
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.5	11.3#



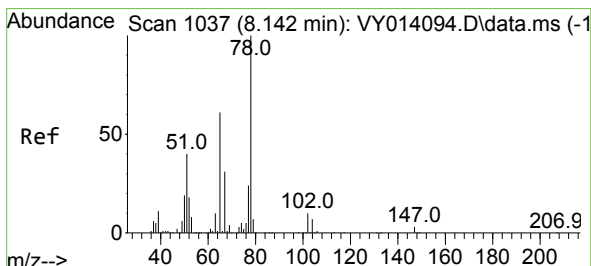
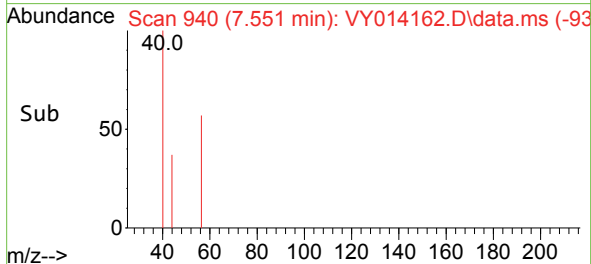
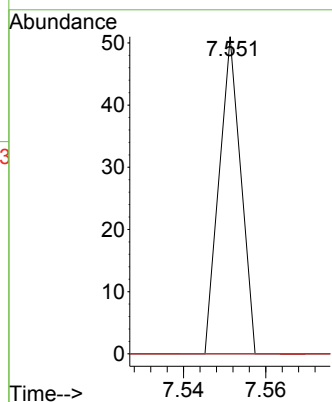


#31
Cyclohexane
Concen: 8.084 ug/l
RT: 7.551 min Scan# 941
Delta R.T. -0.238 min
Lab File: VY014162.D
Acq: 14 Jun 2023 18:37

Instrument :
MSVOA_Y
ClientSampleId :
OR-03-061323RE

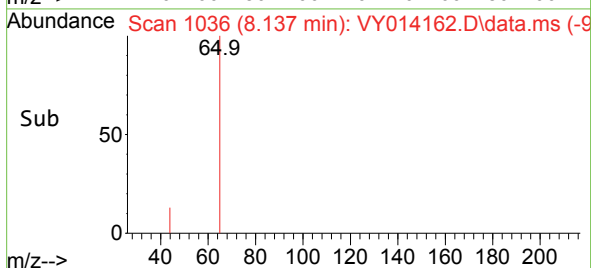
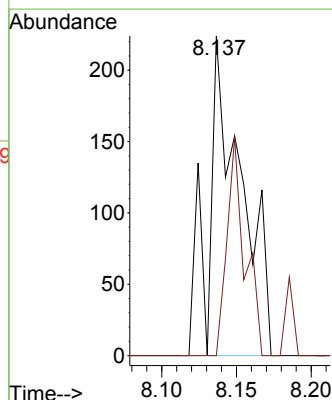
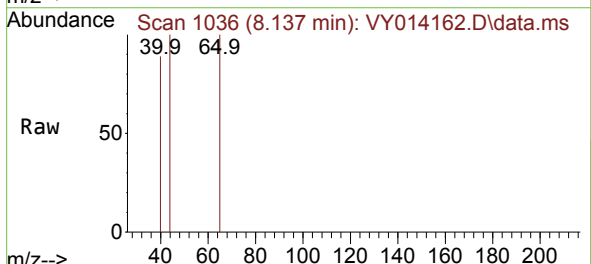


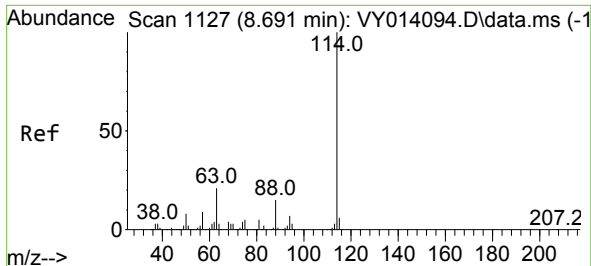
Tgt Ion: 56 Resp: 19
Ion Ratio Lower Upper
56 100
69 0.0 27.8 41.6#
84 0.0 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 195.490 ug/l
RT: 8.137 min Scan# 1036
Delta R.T. -0.005 min
Lab File: VY014162.D
Acq: 14 Jun 2023 18:37

Tgt Ion: 65 Resp: 343
Ion Ratio Lower Upper
65 100
67 37.0 0.0 101.8

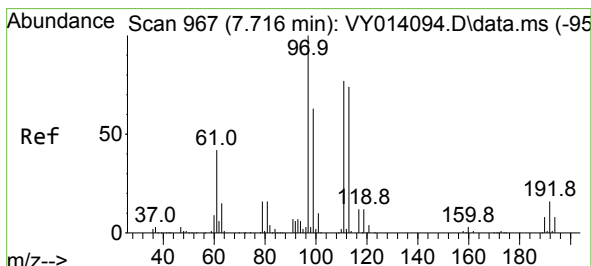
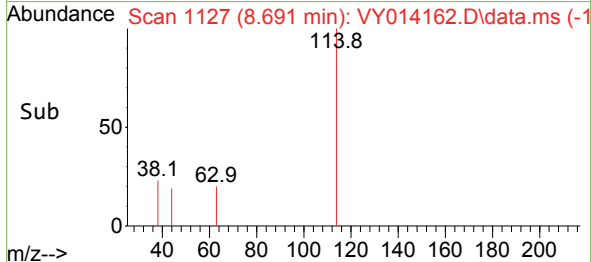
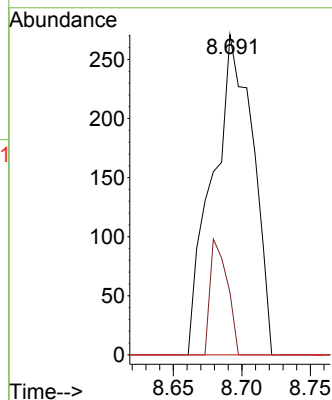
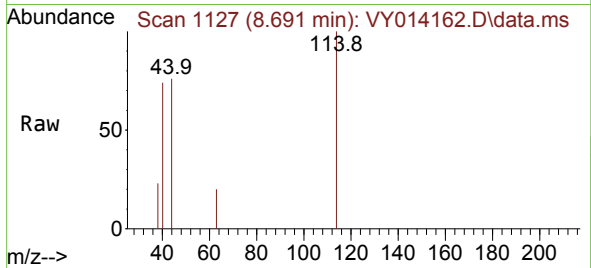




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.691 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VY014162.D
Acq: 14 Jun 2023 18:37

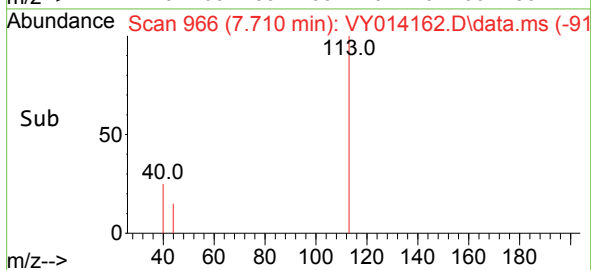
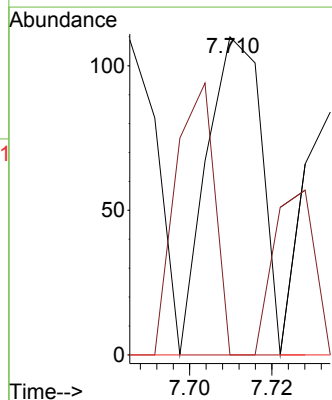
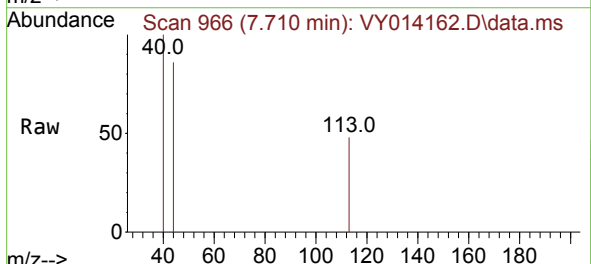
Instrument :
MSVOA_Y
ClientSampleId :
OR-03-061323RE

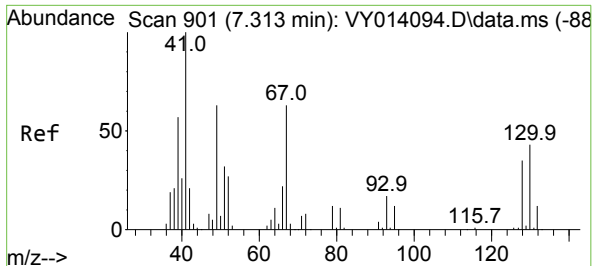
Tgt Ion:114	Resp:	557
Ion Ratio	Lower	Upper
114	100	
63	19.6	0.0 42.4
88	0.0	0.0 30.6



#35
Dibromofluoromethane
Concen: 25.822 ug/l
RT: 7.710 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY014162.D
Acq: 14 Jun 2023 18:37

Tgt Ion:113	Resp:	102
Ion Ratio	Lower	Upper
113	100	
111	60.8	81.3 121.9#
192	0.0	16.9 25.3#

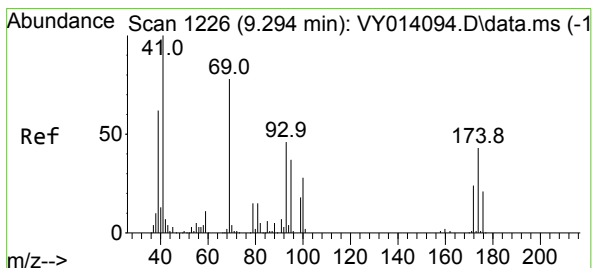
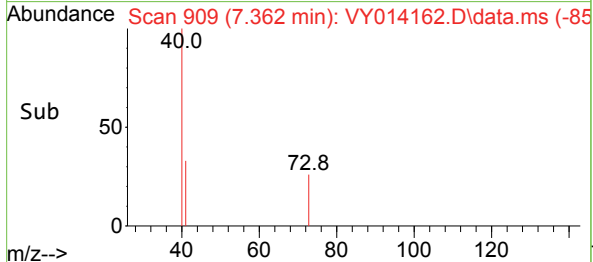
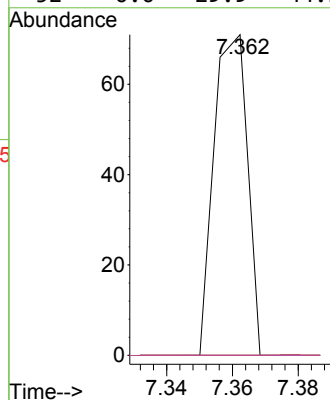
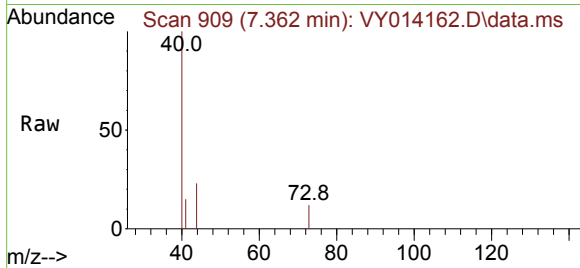




#41
Methacrylonitrile
Concen: 23.057 ug/l
RT: 7.362 min Scan# 901
Delta R.T. 0.049 min
Lab File: VY014162.D
Acq: 14 Jun 2023 18:37

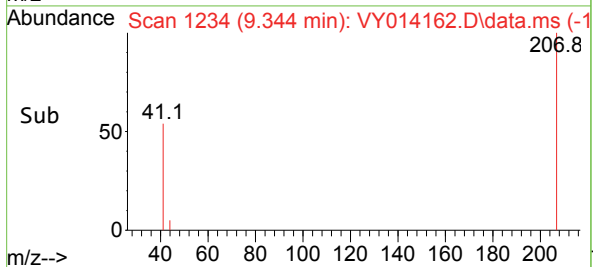
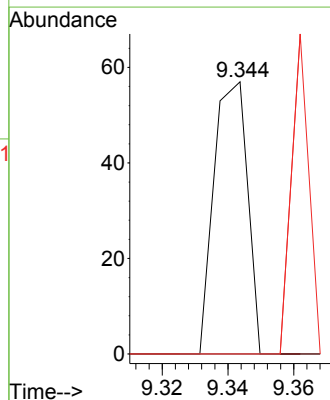
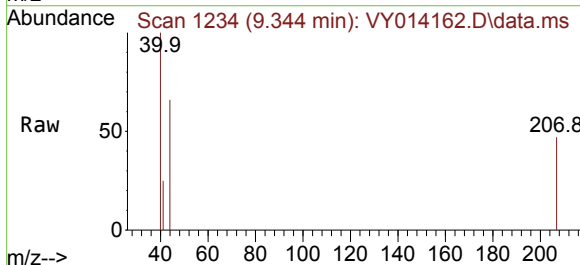
Instrument :
MSVOA_Y
ClientSampleId :
OR-03-061323RE

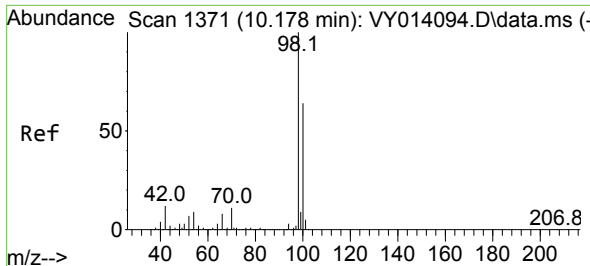
Tgt Ion:	41	Resp:	50
Ion	Ratio	Lower	Upper
41	100		
39	0.0	52.1	78.1#
67	0.0	66.2	99.2#
52	0.0	29.9	44.9#



#48
Methyl methacrylate
Concen: 11.516 ug/l
RT: 9.344 min Scan# 1234
Delta R.T. 0.050 min
Lab File: VY014162.D
Acq: 14 Jun 2023 18:37

Tgt Ion:	41	Resp:	40
Ion	Ratio	Lower	Upper
41	100		
69	0.0	64.5	96.7#
39	62.5	50.8	76.2

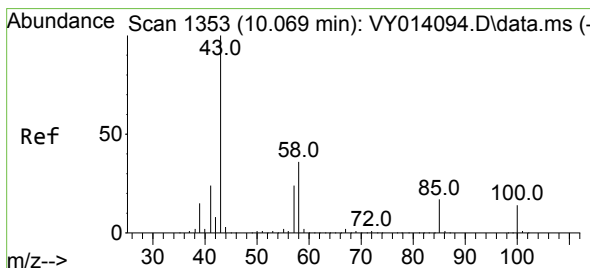
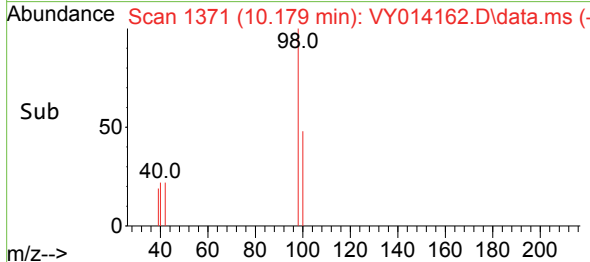
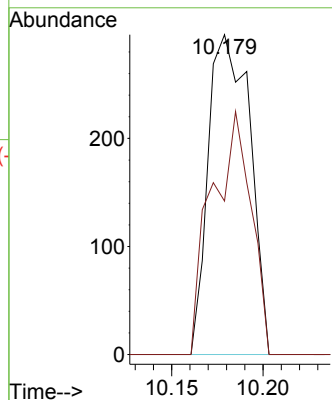
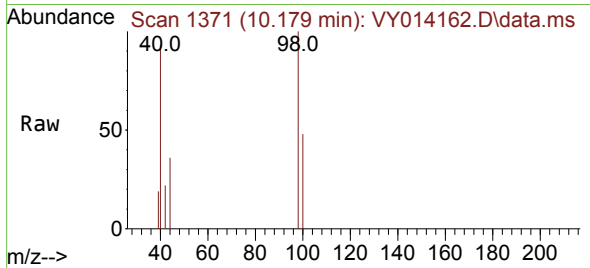




#50
Toluene-d8
Concen: 31.690 ug/l
RT: 10.179 min Scan# 11
Delta R.T. 0.001 min
Lab File: VY014162.D
Acq: 14 Jun 2023 18:37

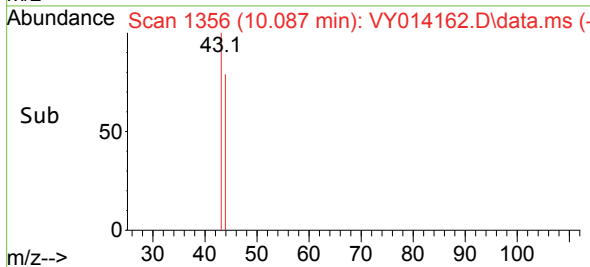
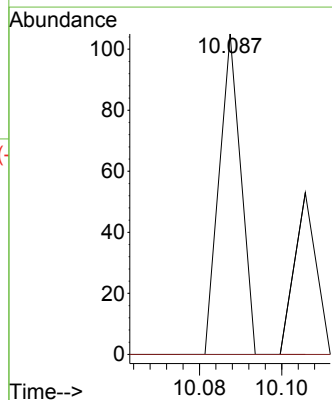
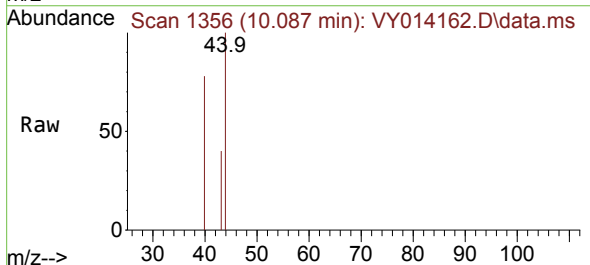
Instrument :
MSVOA_Y
ClientSampleId :
OR-03-061323RE

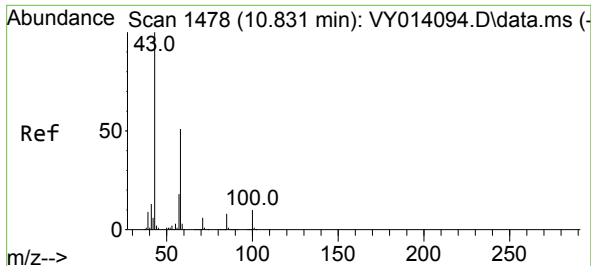
Tgt Ion: 98 Resp: 468
Ion Ratio Lower Upper
98 100
100 72.0 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 9.392 ug/l
RT: 10.087 min Scan# 1356
Delta R.T. 0.018 min
Lab File: VY014162.D
Acq: 14 Jun 2023 18:37

Tgt Ion: 43 Resp: 38
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6#

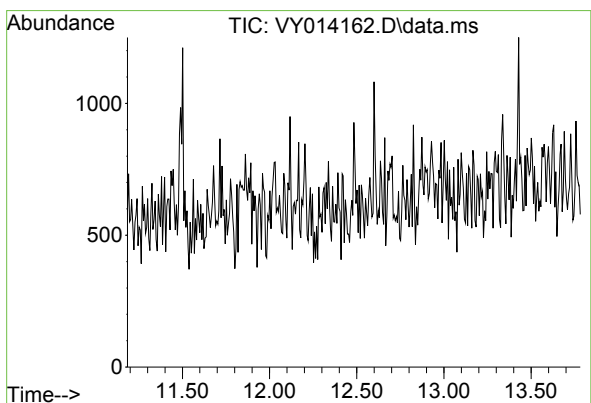
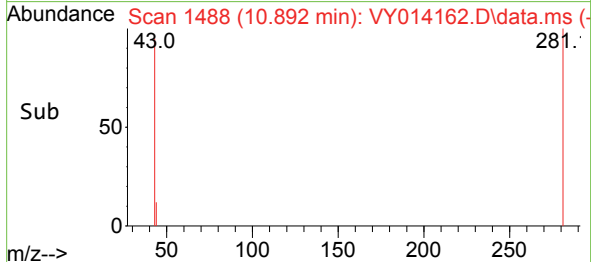
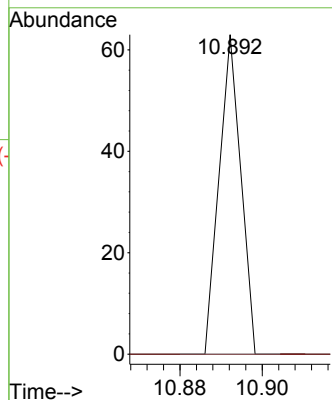
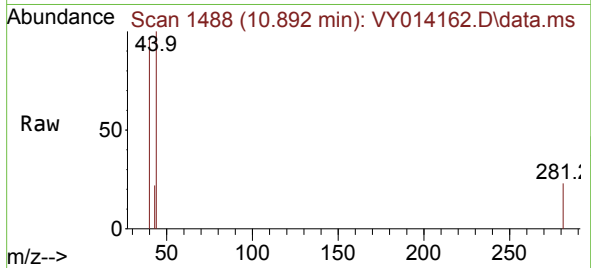




#59
2-Hexanone
Concen: 7.871 ug/l
RT: 10.892 min Scan# 14
Delta R.T. 0.061 min
Lab File: VY014162.D
Acq: 14 Jun 2023 18:37

Instrument :
MSVOA_Y
ClientSampleId :
OR-03-061323RE

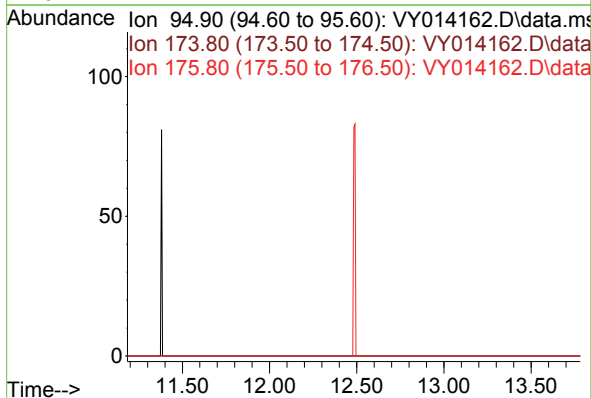
Tgt Ion: 43 Resp: 23
Ion Ratio Lower Upper
43 100
58 0.0 25.1 75.3#

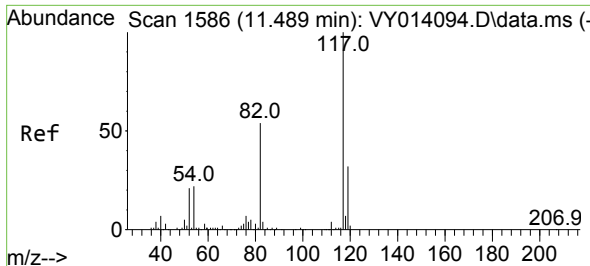


#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 12.48 min

Lab File: VY014162.D
Acq: 14 Jun 2023 18:37

Tgt Ion: 95
Sig Exp Ratio
95 100
174 89.1
176 86.9

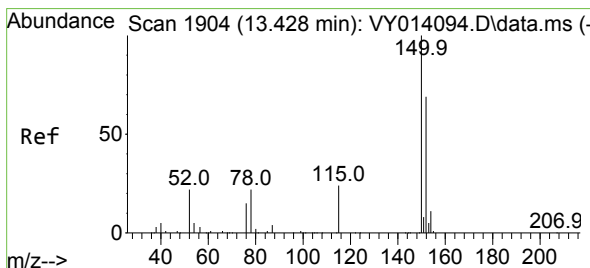
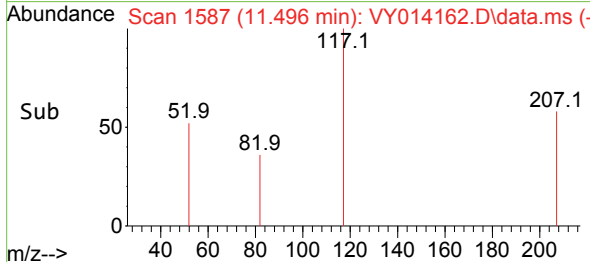
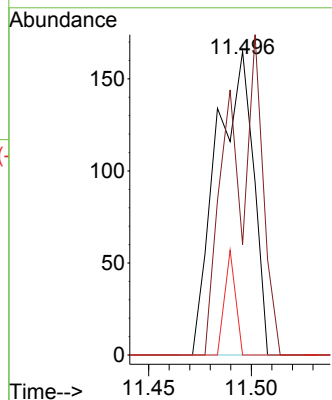
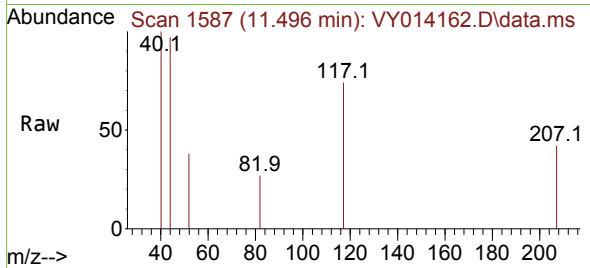




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 11
Delta R.T. 0.007 min
Lab File: VY014162.D
Acq: 14 Jun 2023 18:37

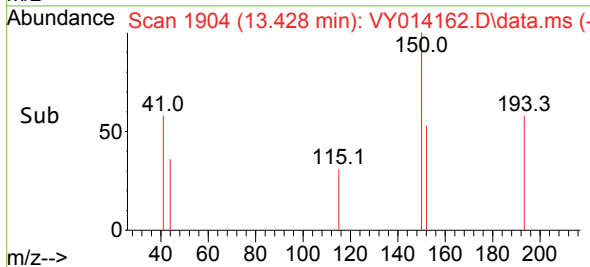
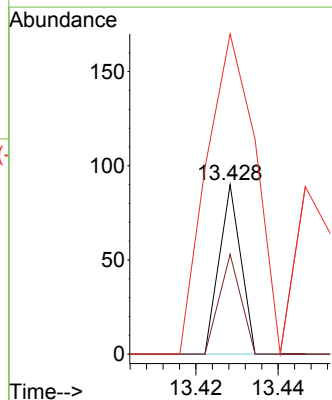
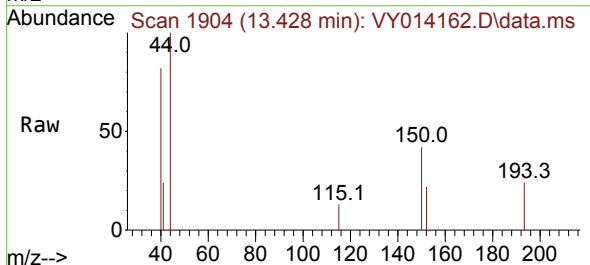
Instrument :
MSVOA_Y
ClientSampleId :
OR-03-061323RE

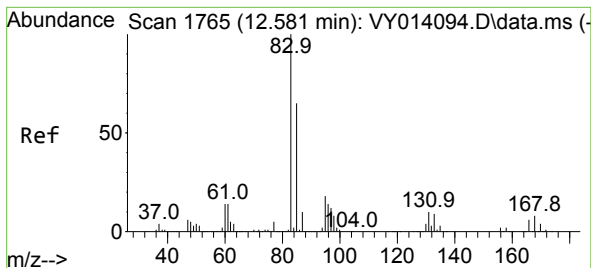
Tgt Ion:117 Resp: 206
Ion Ratio Lower Upper
117 100
82 36.4 43.4 65.0#
119 0.0 26.3 39.5#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VY014162.D
Acq: 14 Jun 2023 18:37

Tgt Ion:152 Resp: 33
Ion Ratio Lower Upper
152 100
115 57.6 28.8 86.5
150 424.2 0.0 348.8#





#75

1,1,2,2-Tetrachloroethane

Concen: 33.777 ug/l

RT: 12.758 min Scan# 11

Delta R.T. 0.177 min

Lab File: VY014162.D

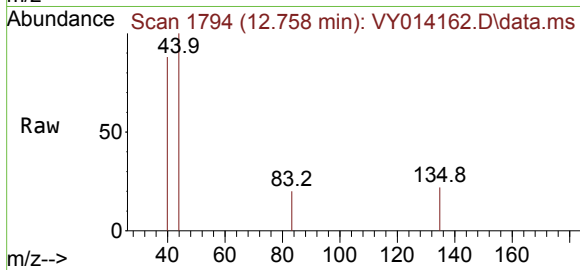
Acq: 14 Jun 2023 18:37

Instrument :

MSVOA_Y

ClientSampleId :

OR-03-061323RE



Tgt Ion: 83 Resp: 19

Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

85 0.0 31.8 95.4#

