

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072023\
 Data File : VY014727.D
 Acq On : 20 Jul 2023 17:39
 Operator : SY/MD
 Sample : 03681-02
 Misc : 4.97g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RTP-1-GRAB-3

Quant Time: Jul 21 01:33:49 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 14 02:09:50 2023
 Response via : Initial Calibration

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

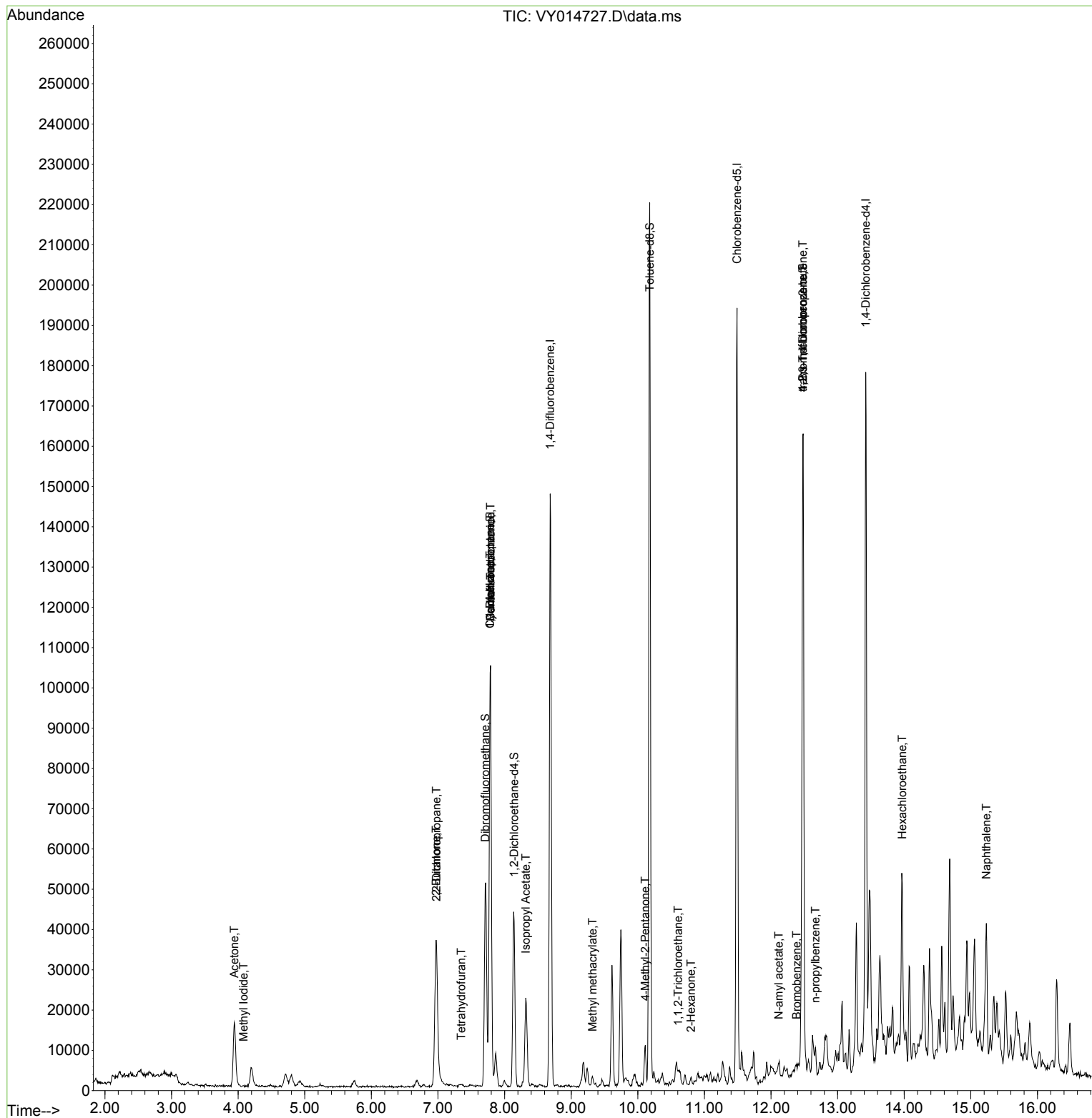
Internal Standards						
1) Pentafluorobenzene	7.789	168	82043	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	126462	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	103727	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	44236	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	34568	36.975	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	73.940%		
35) Dibromofluoromethane	7.710	113	36042	44.771	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	89.540%		
50) Toluene-d8	10.179	98	145673	49.082	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	98.160%		
62) 4-Bromofluorobenzene	12.477	95	46367	40.743	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	81.480%		
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.082	142	112	2.486	ug/l #	38
11) Tert butyl alcohol	4.936	59	2140	Below Cal	#	89
16) Acetone	3.942	43	27436	92.607	ug/l	99
20) Methylene Chloride	4.710	84	2411	Below Cal	#	69
25) 2-Butanone	6.972	43	2076	4.790	ug/l #	75
26) 2,2-Dichloropropane	6.978	77	2912	1.831	ug/l #	54
29) Tetrahydrofuran	7.350	42	309	1.158	ug/l #	41
31) Cyclohexane	7.783	56	1902	1.226	ug/l #	1
36) 1,1-Dichloropropene	7.783	75	6503	5.402	ug/l #	52
38) Carbon Tetrachloride	7.789	117	8237	6.472	ug/l #	17
43) Isopropyl Acetate	8.319	43	4847	3.070	ug/l #	55
48) Methyl methacrylate	9.319	41	835	1.175	ug/l #	47
51) 4-Methyl-2-Pentanone	10.112	43	1300	1.568	ug/l	98
55) 1,1,2-Trichloroethane	10.605	97	853	1.129	ug/l #	14
59) 2-Hexanone	10.801	43	1227	2.030	ug/l #	27
74) N-amyl acetate	12.117	43	1309	1.128	ug/l #	65
76) 1,2,3-Trichloropropane	12.477	75	24289	43.475	ug/l #	100
77) Bromobenzene	12.386	156	889	1.124	ug/l #	1
78) n-propylbenzene	12.666	91	4396	1.053	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.477	75	24289	84.175	ug/l #	11
90) Hexachloroethane	13.971	117	1436	2.275	ug/l #	8
95) Naphthalene	15.233	128	22761	10.916	ug/l	99

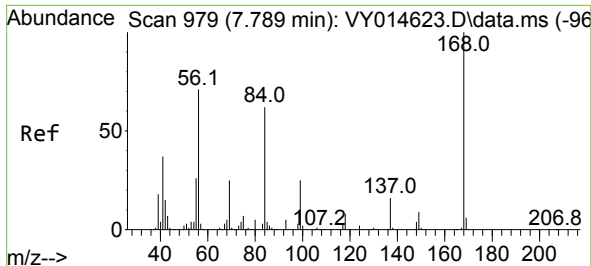
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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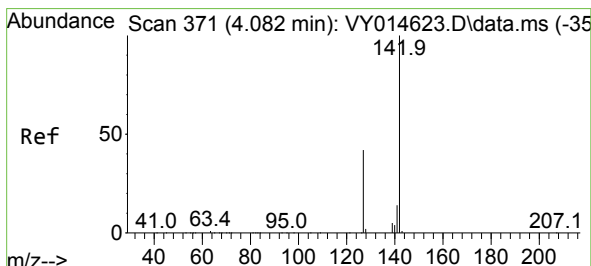
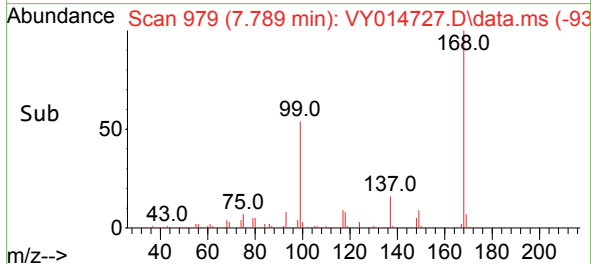
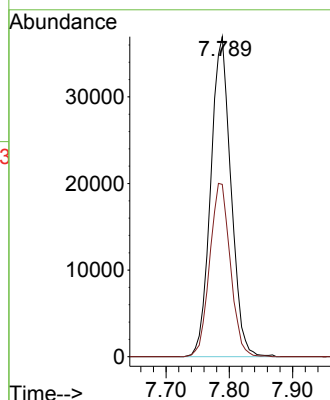
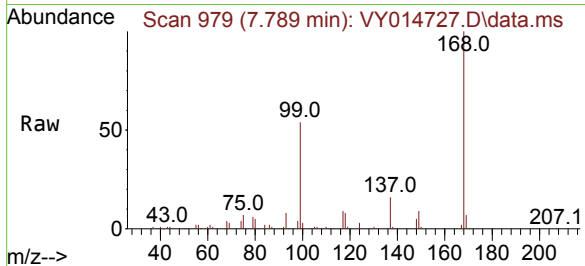




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

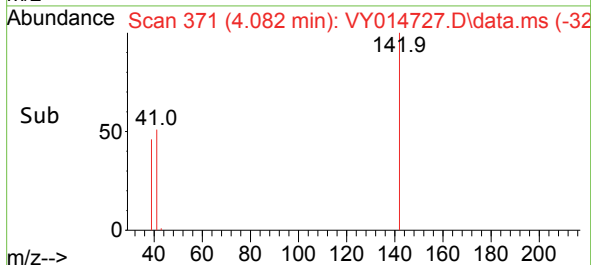
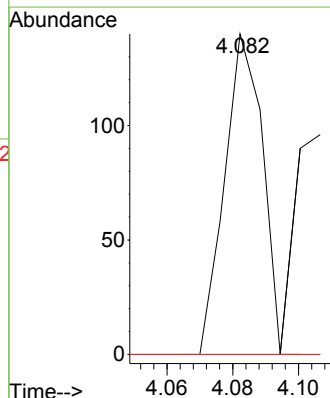
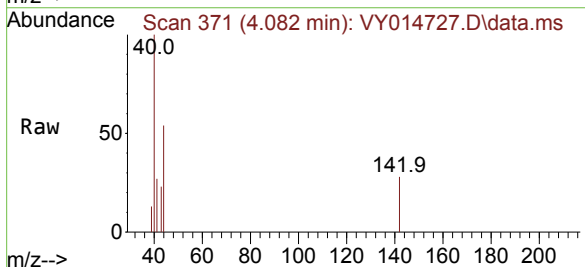
Instrument :
MSVOA_Y
ClientSampleId :
RPTP-1-GRAB-3

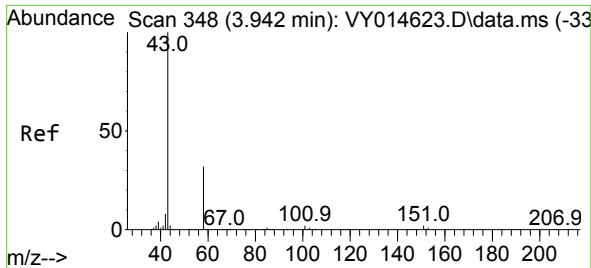
Tgt Ion:168 Resp: 82043
Ion Ratio Lower Upper
168 100
99 53.9 43.4 65.0



#10
Methyl Iodide
Concen: 2.486 ug/l
RT: 4.082 min Scan# 371
Delta R.T. 0.000 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

Tgt Ion:142 Resp: 112
Ion Ratio Lower Upper
142 100
127 0.0 37.6 56.4#
141 0.0 11.8 17.8#

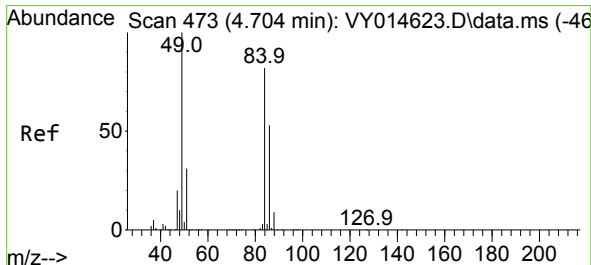
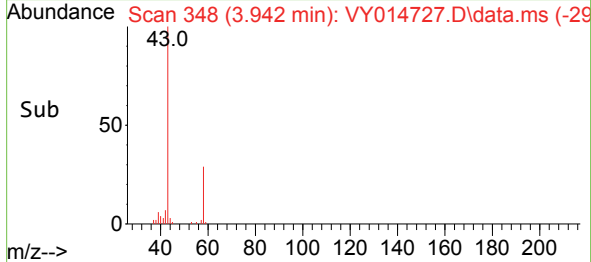
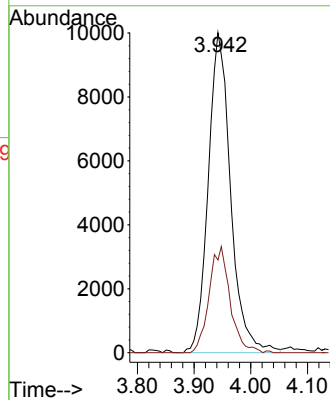
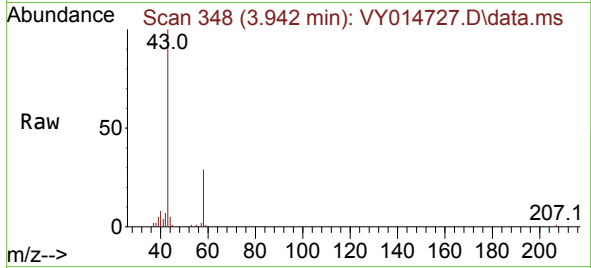




#16
Acetone
Concen: 92.607 ug/l
RT: 3.942 min Scan# 348
Delta R.T. -0.000 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

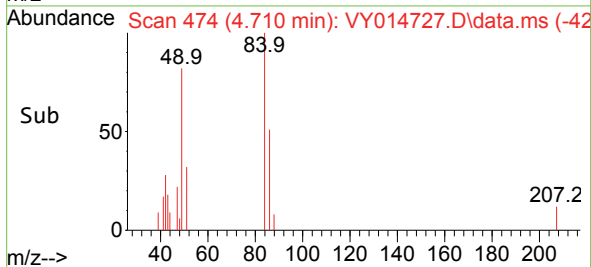
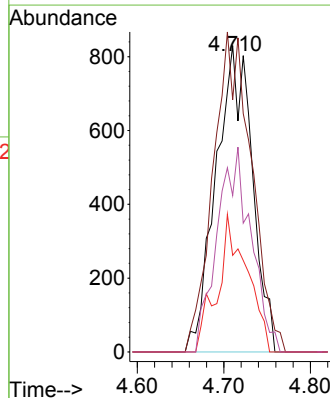
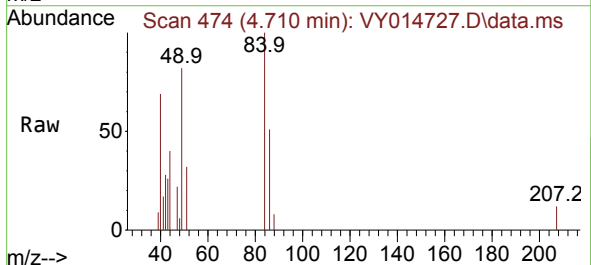
Instrument :
MSVOA_Y
ClientSampleId :
RPTP-1-GRAB-3

Tgt Ion: 43 Resp: 27436
Ion Ratio Lower Upper
43 100
58 29.0 22.7 34.1



#20
Methylene Chloride
Concen: Below Cal
RT: 4.710 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

Tgt Ion: 84 Resp: 2411
Ion Ratio Lower Upper
84 100
49 82.3 106.9 160.3#
51 31.6 33.2 49.8#
86 51.1 51.0 76.6





#25

2-Butanone

Concen: 4.790 ug/l

RT: 6.972 min Scan# 845

Delta R.T. -0.006 min

Lab File: VY014727.D

Acq: 20 Jul 2023 17:39

Instrument :

MSVOA_Y

ClientSampleId :

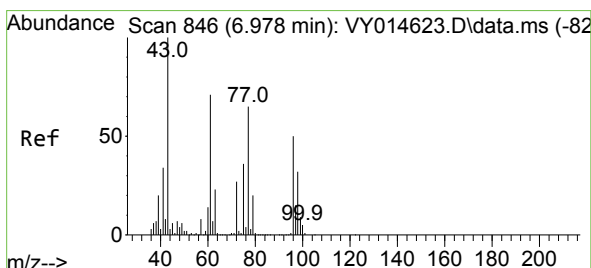
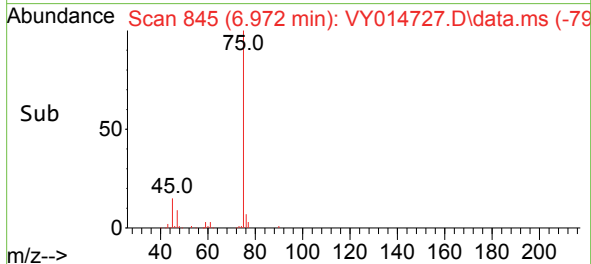
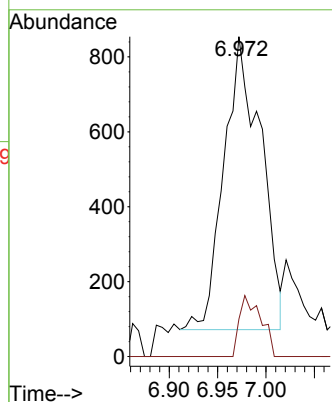
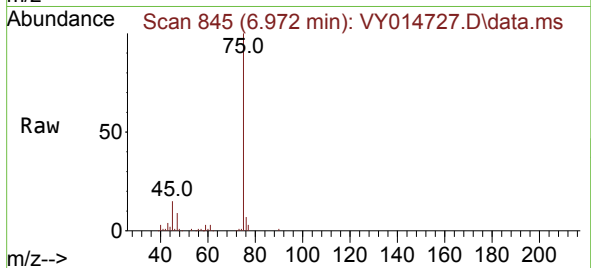
RPTP-1-GRAB-3

Tgt Ion: 43 Resp: 2076

Ion Ratio Lower Upper

43 100

72 12.8 20.5 30.7#



#26

2,2-Dichloropropane

Concen: 1.831 ug/l

RT: 6.978 min Scan# 846

Delta R.T. 0.000 min

Lab File: VY014727.D

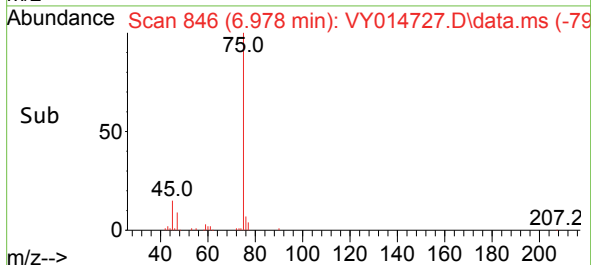
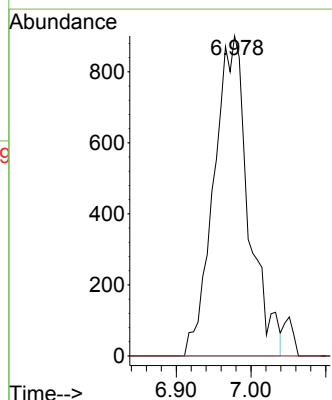
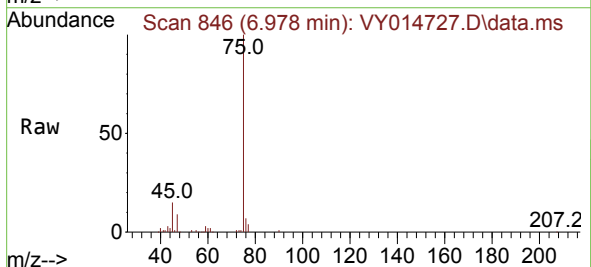
Acq: 20 Jul 2023 17:39

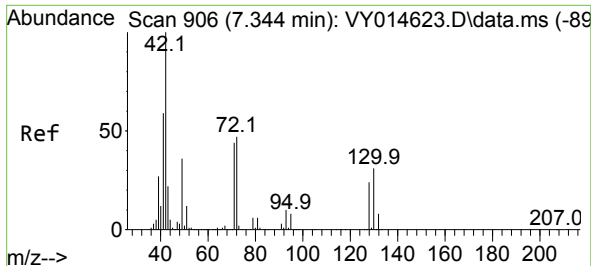
Tgt Ion: 77 Resp: 2912

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.9#





#29

Tetrahydrofuran

Concen: 1.158 ug/l

RT: 7.350 min Scan# 906

Delta R.T. 0.006 min

Lab File: VY014727.D

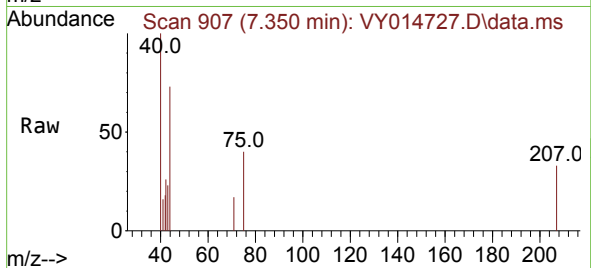
Acq: 20 Jul 2023 17:39

Instrument :

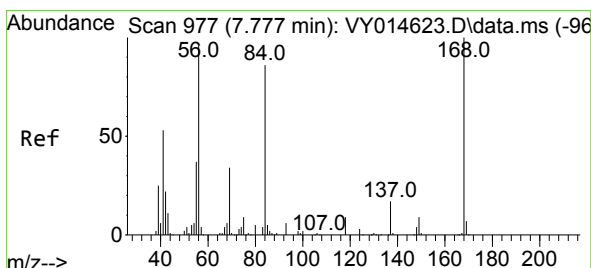
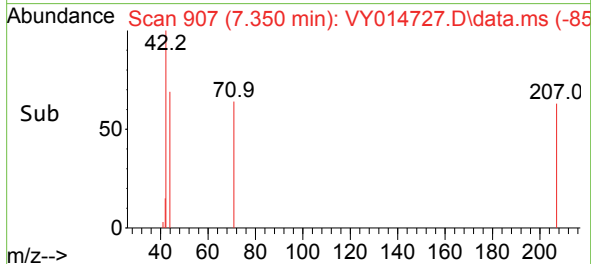
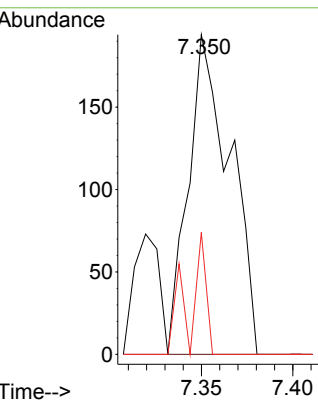
MSVOA_Y

ClientSampleId :

RPTP-1-GRAB-3



Tgt Ion:	42	Resp:	309
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.8	49.2#
71	6.5	31.0	46.4#



#31

Cyclohexane

Concen: 1.226 ug/l

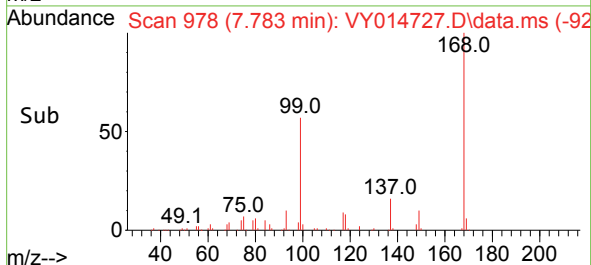
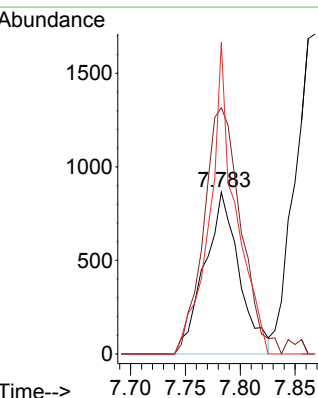
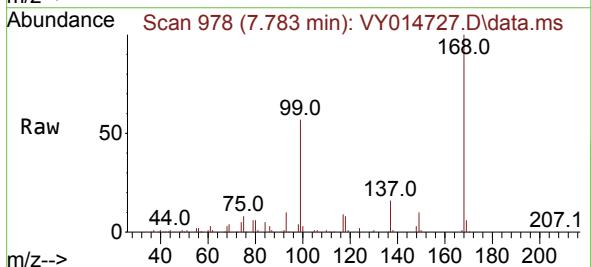
RT: 7.783 min Scan# 978

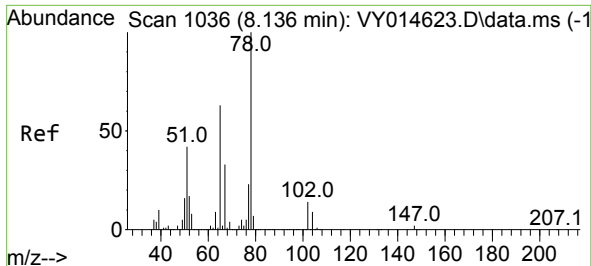
Delta R.T. 0.006 min

Lab File: VY014727.D

Acq: 20 Jul 2023 17:39

Tgt Ion:	56	Resp:	1902
Ion	Ratio	Lower	Upper
56	100		
69	152.1	27.8	41.6#
84	192.5	66.4	99.6#

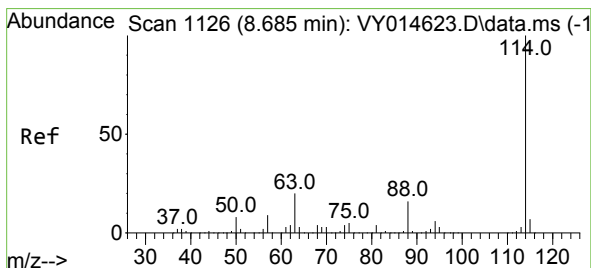
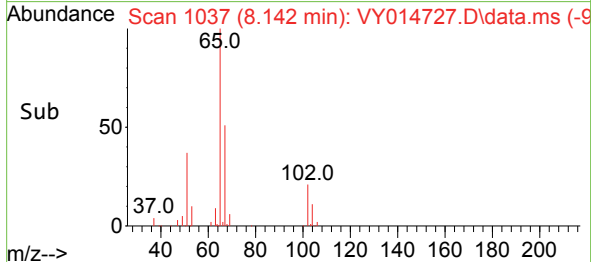
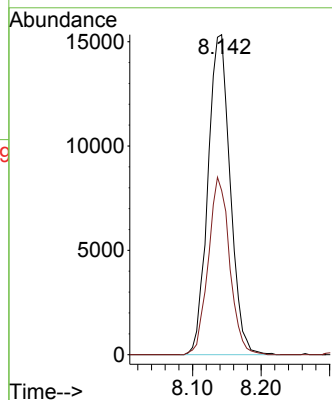
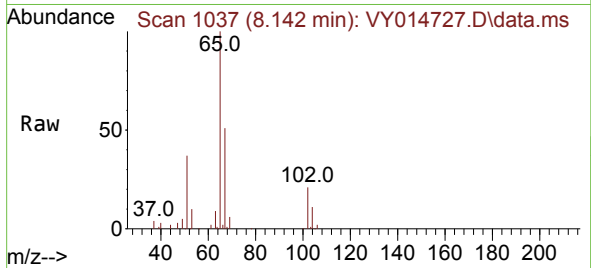




#33
 1,2-Dichloroethane-d4
 Concen: 36.975 ug/l
 RT: 8.142 min Scan# 1037
 Delta R.T. 0.006 min
 Lab File: VY014727.D
 Acq: 20 Jul 2023 17:39

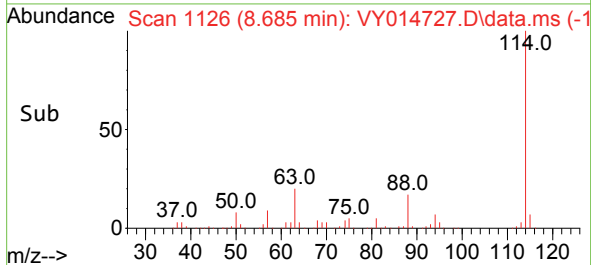
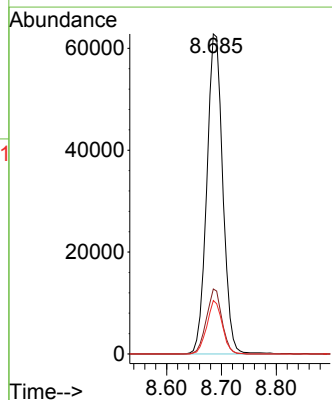
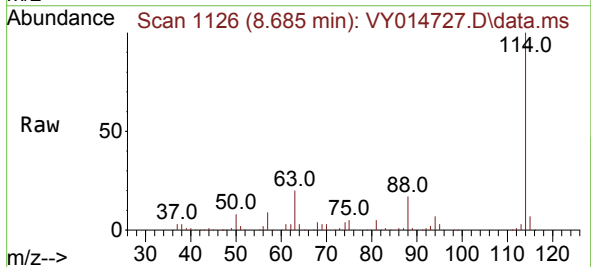
Instrument :
 MSVOA_Y
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 RPTP-1-GRAB-3

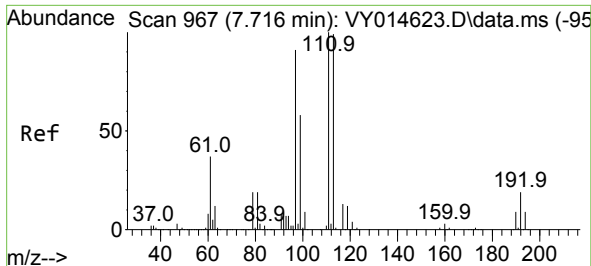
Tgt Ion: 65 Resp: 34568
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.685 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VY014727.D
 Acq: 20 Jul 2023 17:39

Tgt Ion: 114 Resp: 126462
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 42.4
 88 16.7 0.0 30.6

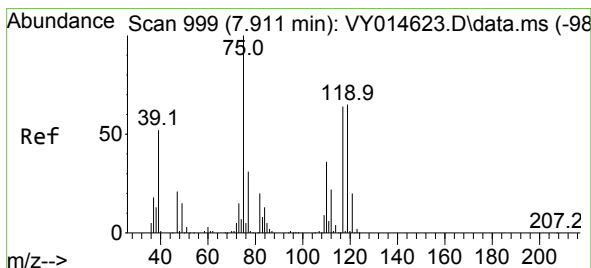
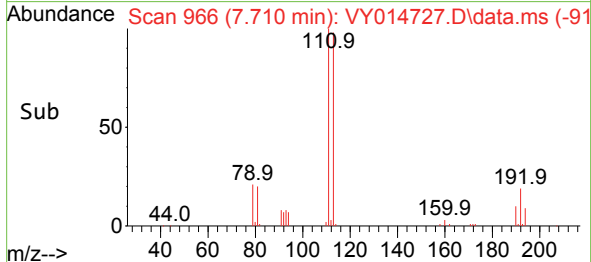
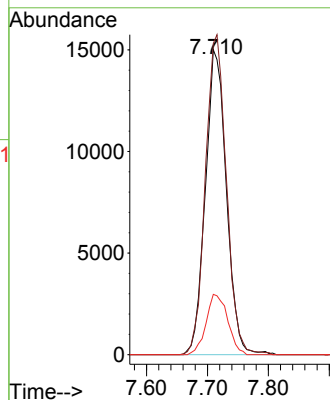
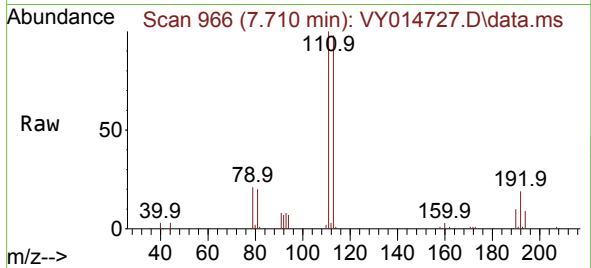




#35
Dibromofluoromethane
Concen: 44.771 ug/l
RT: 7.710 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

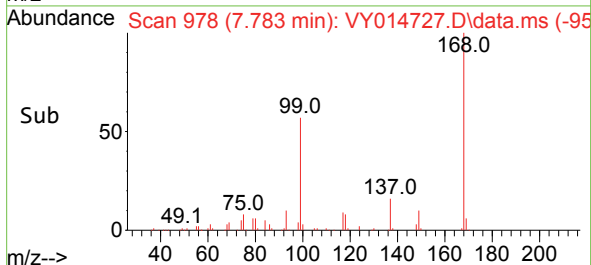
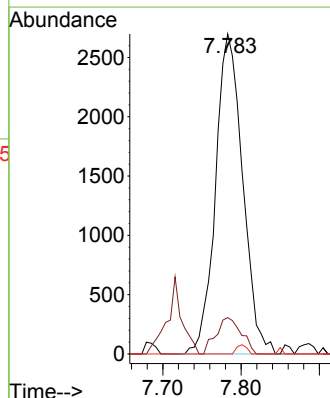
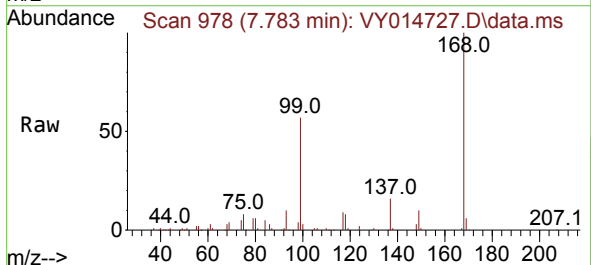
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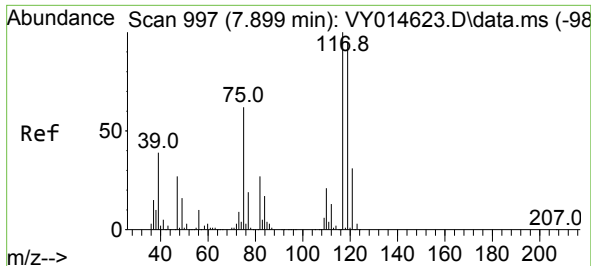
Tgt Ion:113 Resp: 36042
Ion Ratio Lower Upper
113 100
111 104.5 81.3 121.9
192 20.3 16.9 25.3



#36
1,1-Dichloropropene
Concen: 5.402 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.128 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

Tgt Ion: 75 Resp: 6503
Ion Ratio Lower Upper
75 100
110 10.6 17.8 53.5#
77 1.1 24.4 36.6#

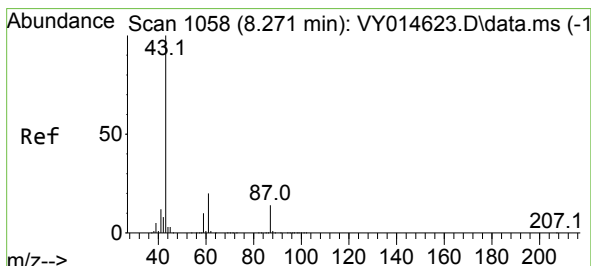
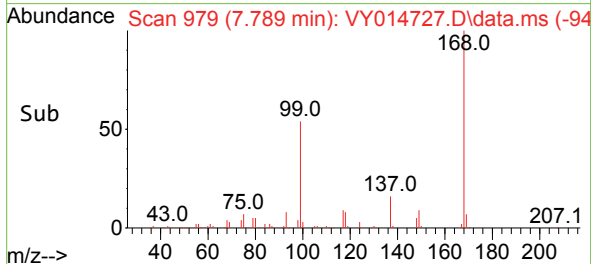
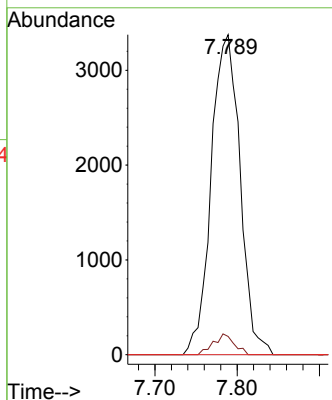
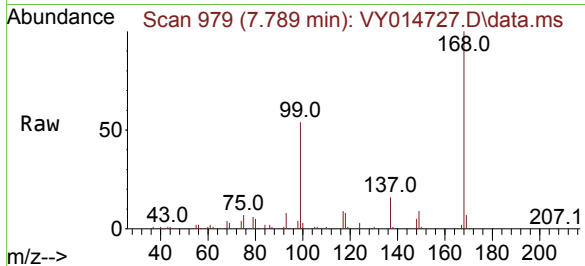




#38
Carbon Tetrachloride
Concen: 6.472 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

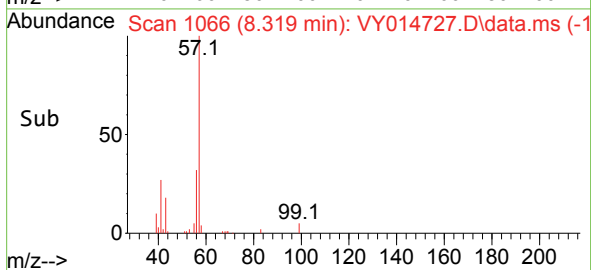
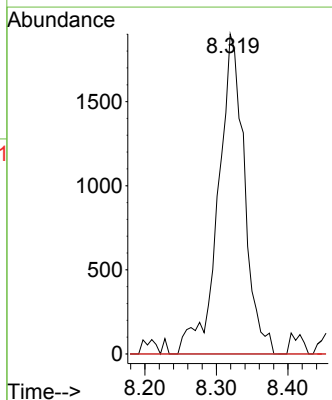
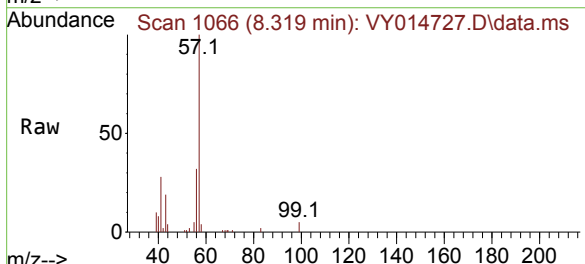
Instrument :
MSVOA_Y
ClientSampleId :
RPTP-1-GRAB-3

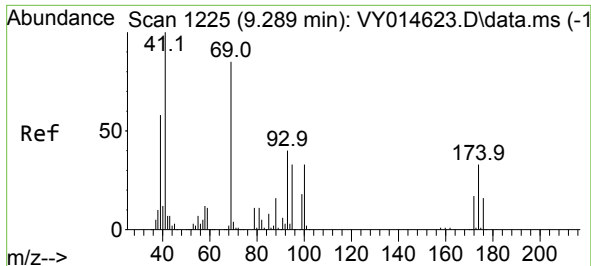
Tgt Ion:117 Resp: 8237
Ion Ratio Lower Upper
117 100
119 5.7 76.4 114.6#
121 0.0 25.8 38.6#



#43
Isopropyl Acetate
Concen: 3.070 ug/l
RT: 8.319 min Scan# 1066
Delta R.T. 0.048 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

Tgt Ion: 43 Resp: 4847
Ion Ratio Lower Upper
43 100
61 0.0 21.1 31.7#
87 0.0 9.8 14.8#

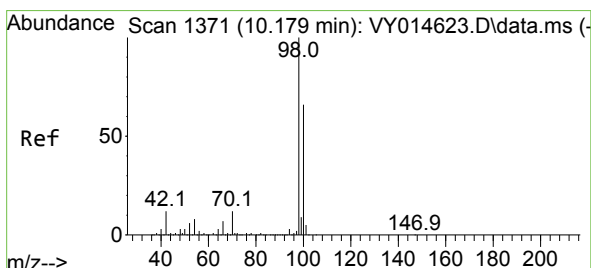
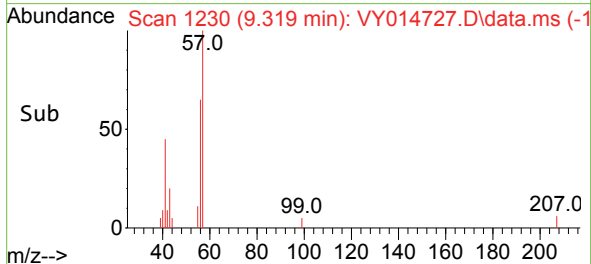
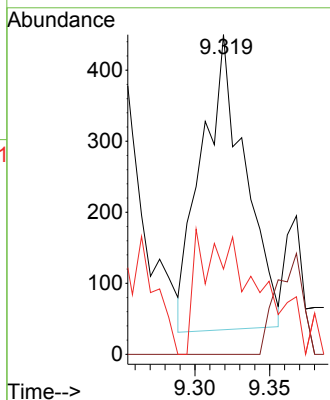
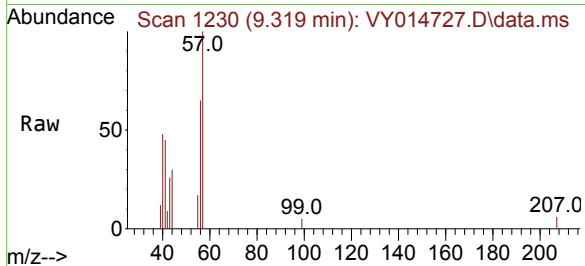




#48
Methyl methacrylate
Concen: 1.175 ug/l
RT: 9.319 min Scan# 1230
Delta R.T. 0.030 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

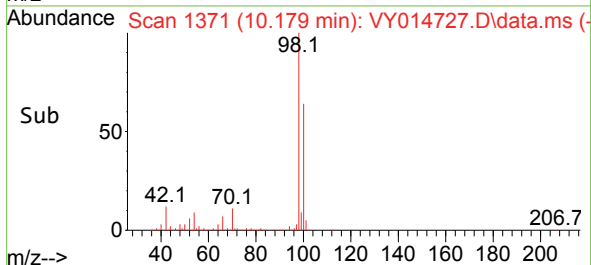
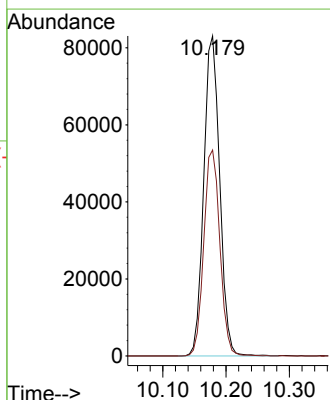
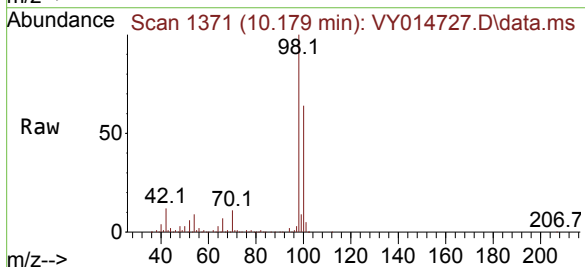
Instrument :
MSVOA_Y
ClientSampleId :
RPTP-1-GRAB-3

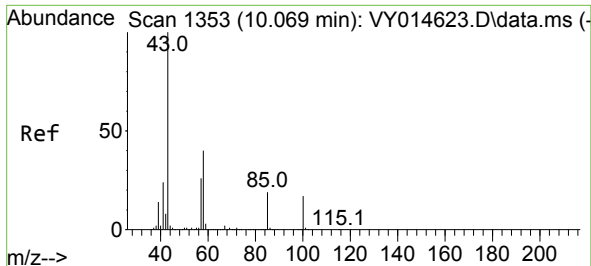
Tgt Ion: 41 Resp: 835
Ion Ratio Lower Upper
41 100
69 0.0 64.5 96.7#
39 60.1 50.8 76.2



#50
Toluene-d8
Concen: 49.082 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

Tgt Ion: 98 Resp: 145673
Ion Ratio Lower Upper
98 100
100 65.0 50.1 75.1

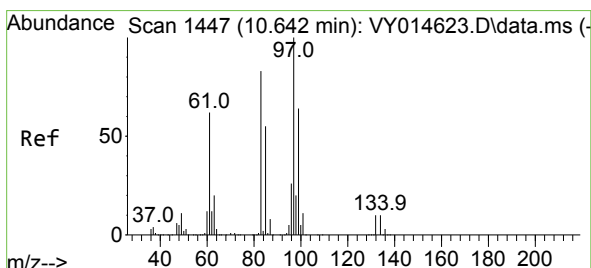
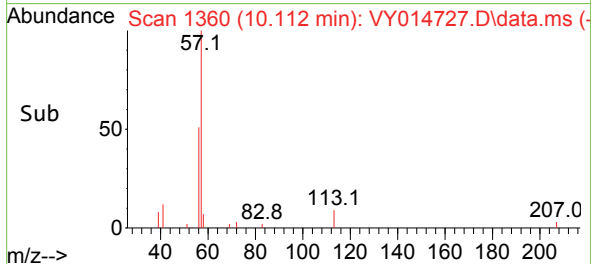
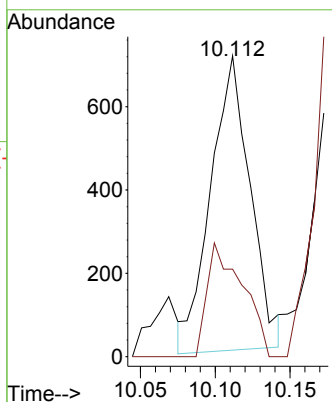
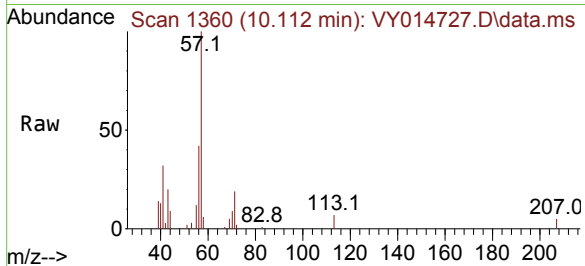




#51
4-Methyl-2-Pentanone
Concen: 1.568 ug/l
RT: 10.112 min Scan# 11
Delta R.T. 0.043 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

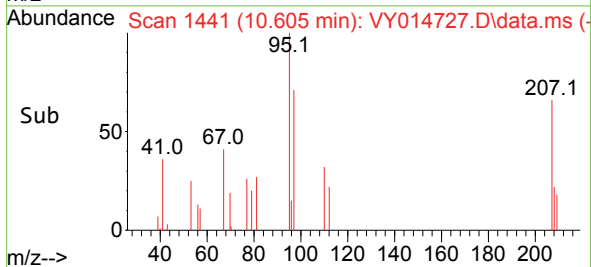
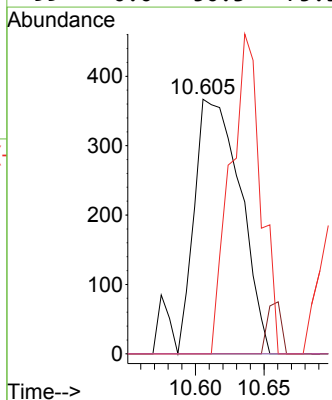
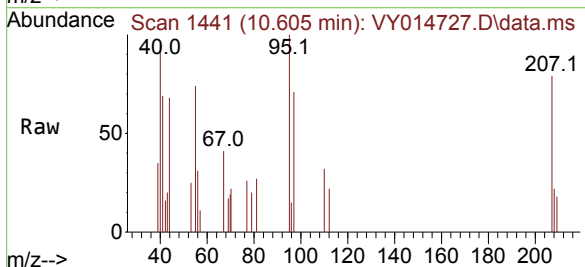
Instrument :
MSVOA_Y
ClientSampleId :
RPTP-1-GRAB-3

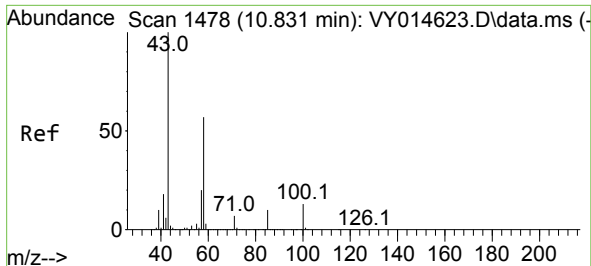
Tgt Ion: 43 Resp: 1300
Ion Ratio Lower Upper
43 100
58 34.8 29.0 43.6



#55
1,1,2-Trichloroethane
Concen: 1.129 ug/l
RT: 10.605 min Scan# 1441
Delta R.T. -0.037 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

Tgt Ion: 97 Resp: 853
Ion Ratio Lower Upper
97 100
83 0.0 72.0 108.0#
85 0.0 45.4 68.0#
99 0.0 50.3 75.5#

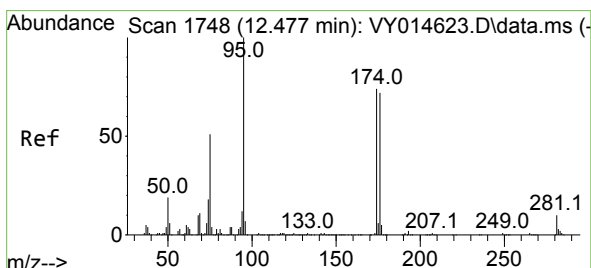
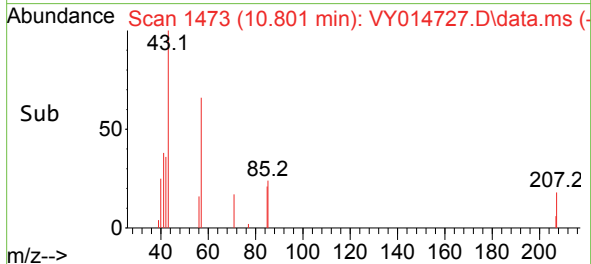
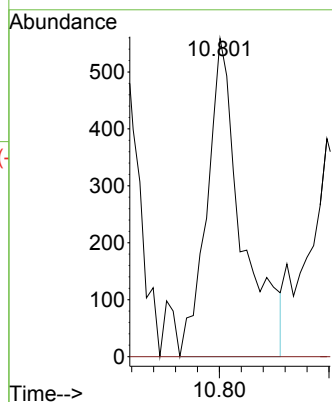
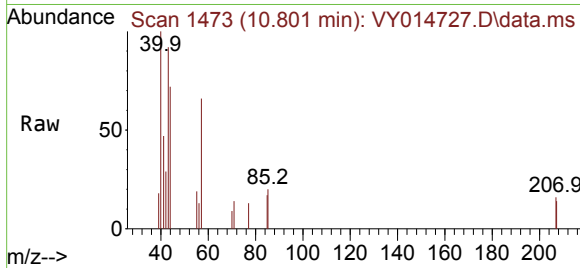




#59
2-Hexanone
Concen: 2.030 ug/l
RT: 10.801 min Scan# 1473
Delta R.T. -0.030 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

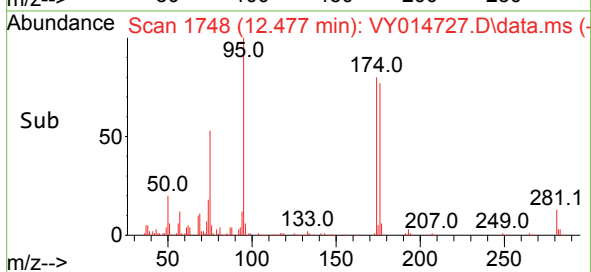
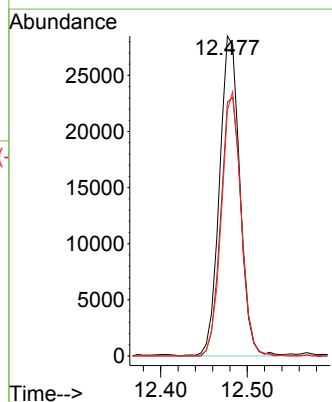
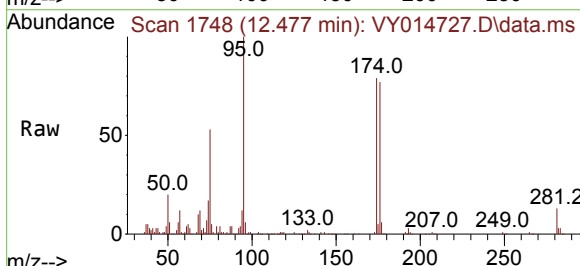
Instrument :
MSVOA_Y
ClientSampleId :
RPTP-1-GRAB-3

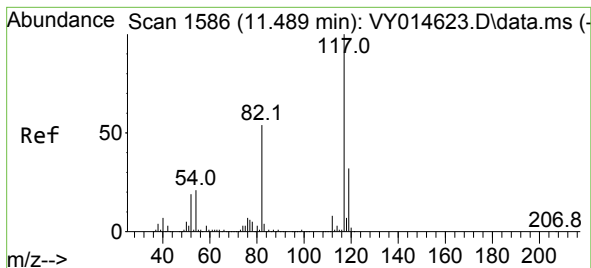
Tgt Ion: 43 Resp: 1227
Ion Ratio Lower Upper
43 100
58 0.0 25.1 75.3#



#62
4-Bromofluorobenzene
Concen: 40.743 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

Tgt Ion: 95 Resp: 46367
Ion Ratio Lower Upper
95 100
174 81.8 0.0 178.2
176 79.7 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY014727.D

Acq: 20 Jul 2023 17:39

Instrument :

MSVOA_Y

ClientSampleId :

RPTP-1-GRAB-3

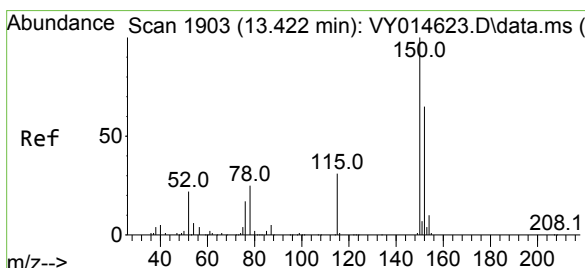
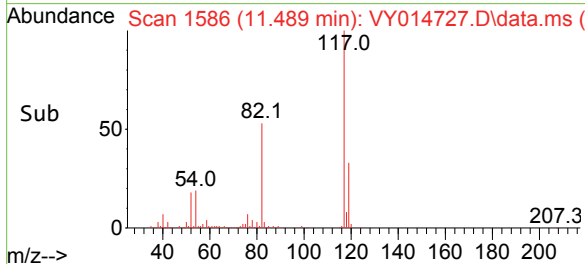
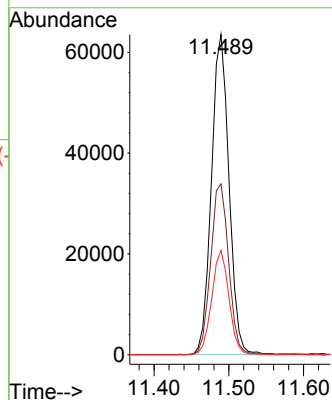
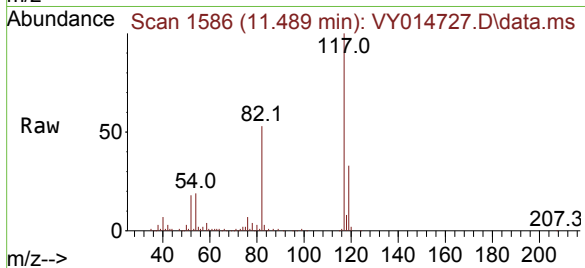
Tgt Ion:117 Resp: 103727

Ion Ratio Lower Upper

117 100

82 53.3 43.4 65.0

119 32.6 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY014727.D

Acq: 20 Jul 2023 17:39

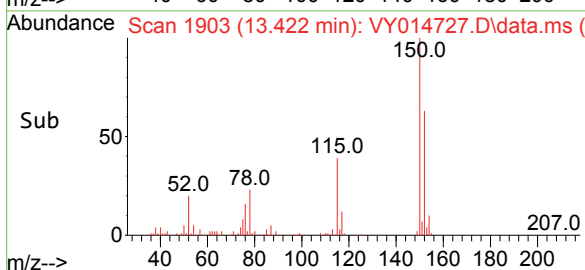
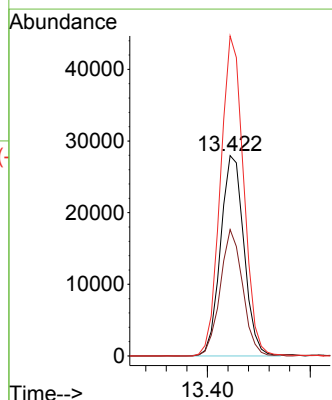
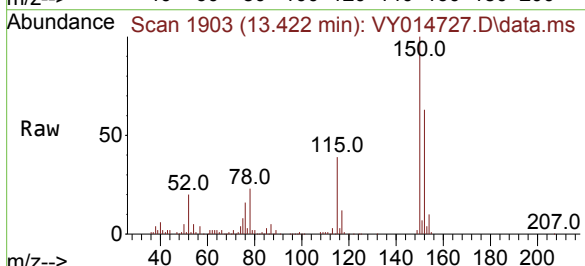
Tgt Ion:152 Resp: 44236

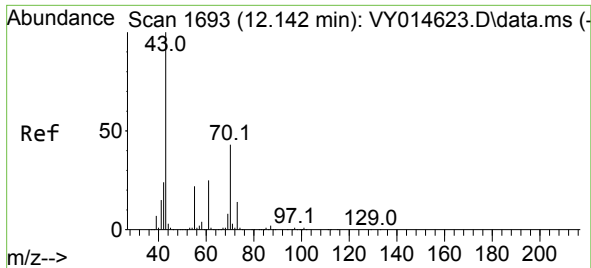
Ion Ratio Lower Upper

152 100

115 60.5 28.8 86.5

150 158.0 0.0 348.8

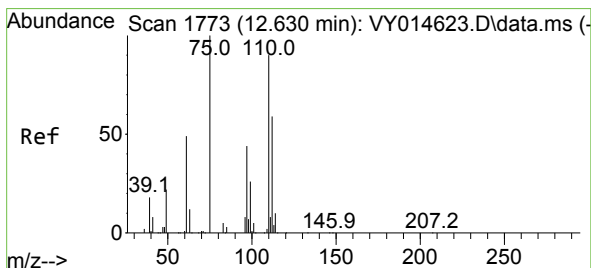
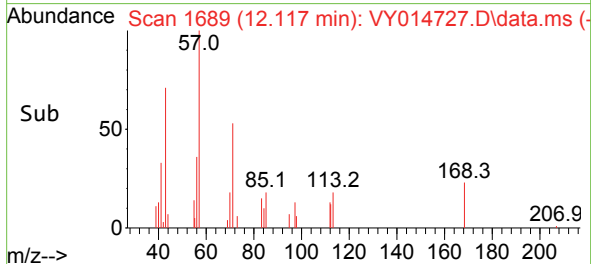
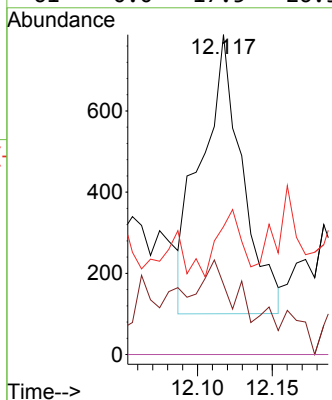
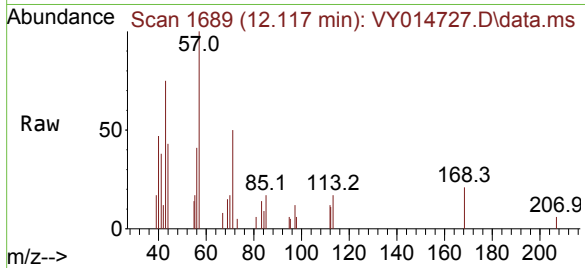




#74
N-amy1 acetate
Concen: 1.128 ug/l
RT: 12.117 min Scan# 1748
Delta R.T. -0.025 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

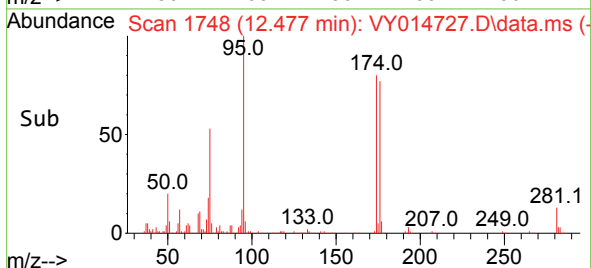
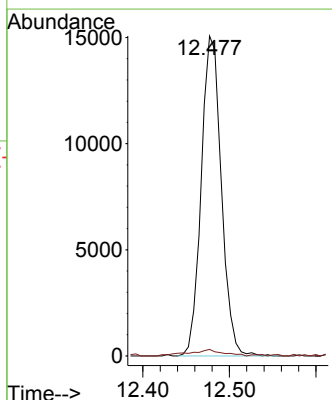
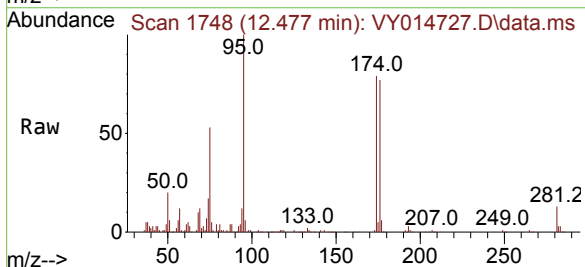
Instrument :
MSVOA_Y
ClientSampleId :
RPTP-1-GRAB-3

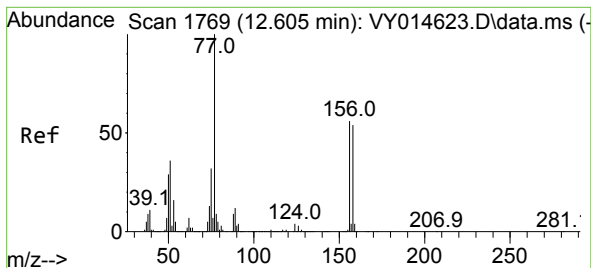
Tgt Ion: 43 Resp: 1309
Ion Ratio Lower Upper
43 100
70 14.3 29.7 44.5#
55 14.4 18.3 27.5#
61 0.0 17.5 26.3#



#76
1,2,3-Trichloropropane
Concen: 43.475 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.153 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

Tgt Ion: 75 Resp: 24289
Ion Ratio Lower Upper
75 100
77 3.4 0.0 0.0#





#77

Bromobenzene

Concen: 1.124 ug/l

RT: 12.386 min Scan# 1733

Delta R.T. -0.219 min

Lab File: VY014727.D

Acq: 20 Jul 2023 17:39

Instrument :

MSVOA_Y

ClientSampleId :

RPTP-1-GRAB-3

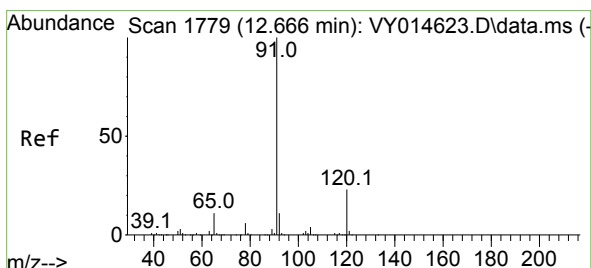
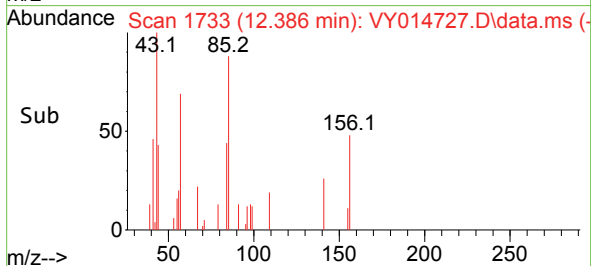
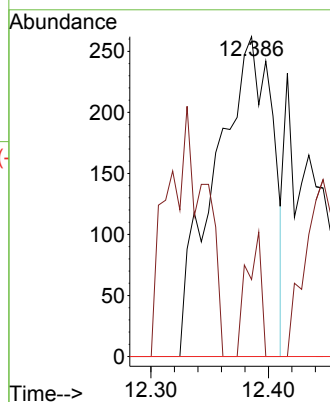
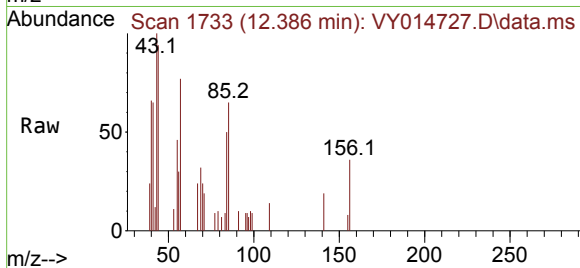
Tgt Ion:156 Resp: 889

Ion Ratio Lower Upper

156 100

77 9.9 92.8 278.6#

158 0.0 48.4 145.3#



#78

n-propylbenzene

Concen: 1.053 ug/l

RT: 12.666 min Scan# 1779

Delta R.T. 0.000 min

Lab File: VY014727.D

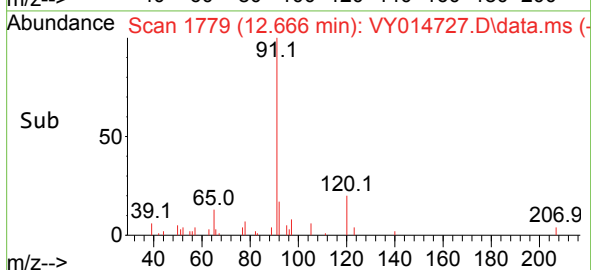
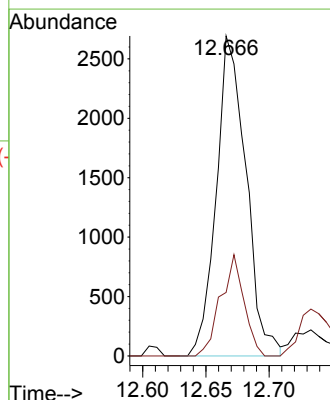
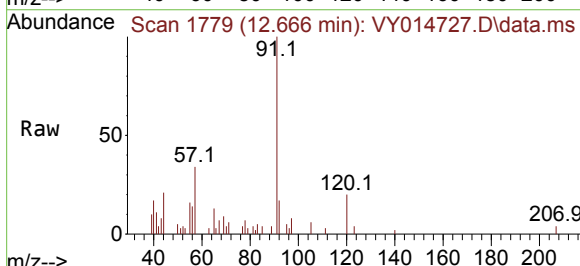
Acq: 20 Jul 2023 17:39

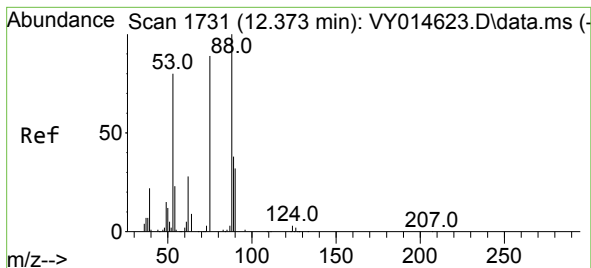
Tgt Ion: 91 Resp: 4396

Ion Ratio Lower Upper

91 100

120 24.8 11.5 34.4

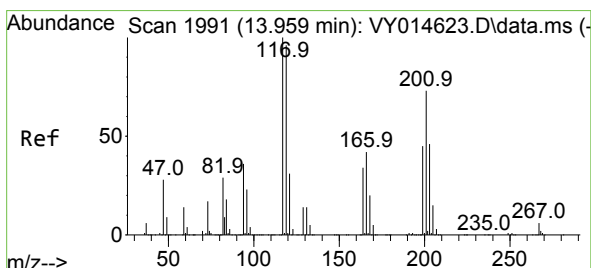
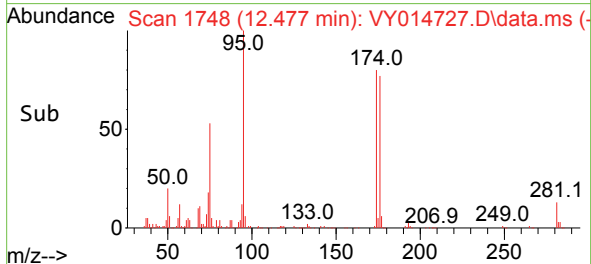
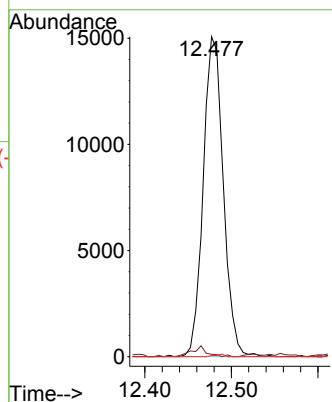
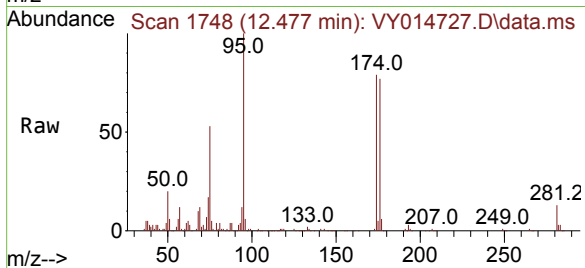




#81
trans-1,4-Dichloro-2-butene
Concen: 84.175 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

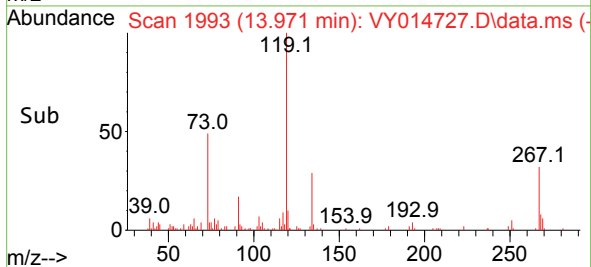
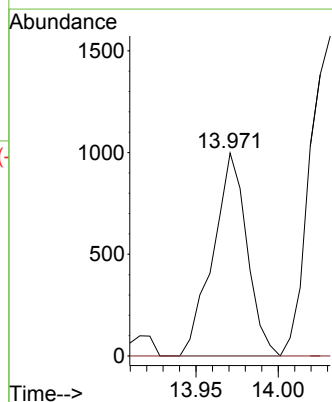
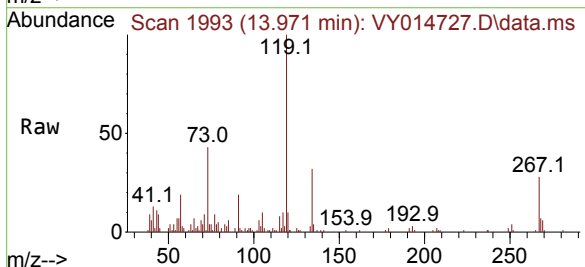
Instrument :
MSVOA_Y
ClientSampleId :
RPTP-1-GRAB-3

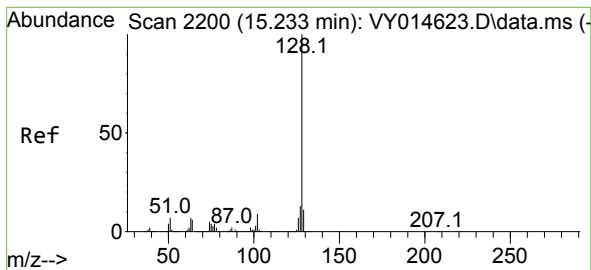
Tgt Ion: 75 Resp: 24289
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.4 37.4 56.0#



#90
Hexachloroethane
Concen: 2.275 ug/l
RT: 13.971 min Scan# 1993
Delta R.T. 0.012 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

Tgt Ion: 117 Resp: 1436
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#





#95
Naphthalene
Concen: 10.916 ug/l
RT: 15.233 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY014727.D
Acq: 20 Jul 2023 17:39

Instrument :
MSVOA_Y
ClientSampleId :
RPTP-1-GRAB-3

Tgt Ion:128	Resp:	22761
Ion	Ratio	Lower Upper
128	100	
127	13.5	10.8 16.2
129	11.6	8.6 13.0

