

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081523\
 Data File : VY015127.D
 Acq On : 16 Aug 2023 01:19
 Operator : SY/MD
 Sample : 03973-01
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 16 04:35:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 14 12:43:26 2023
 Response via : Initial Calibration

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

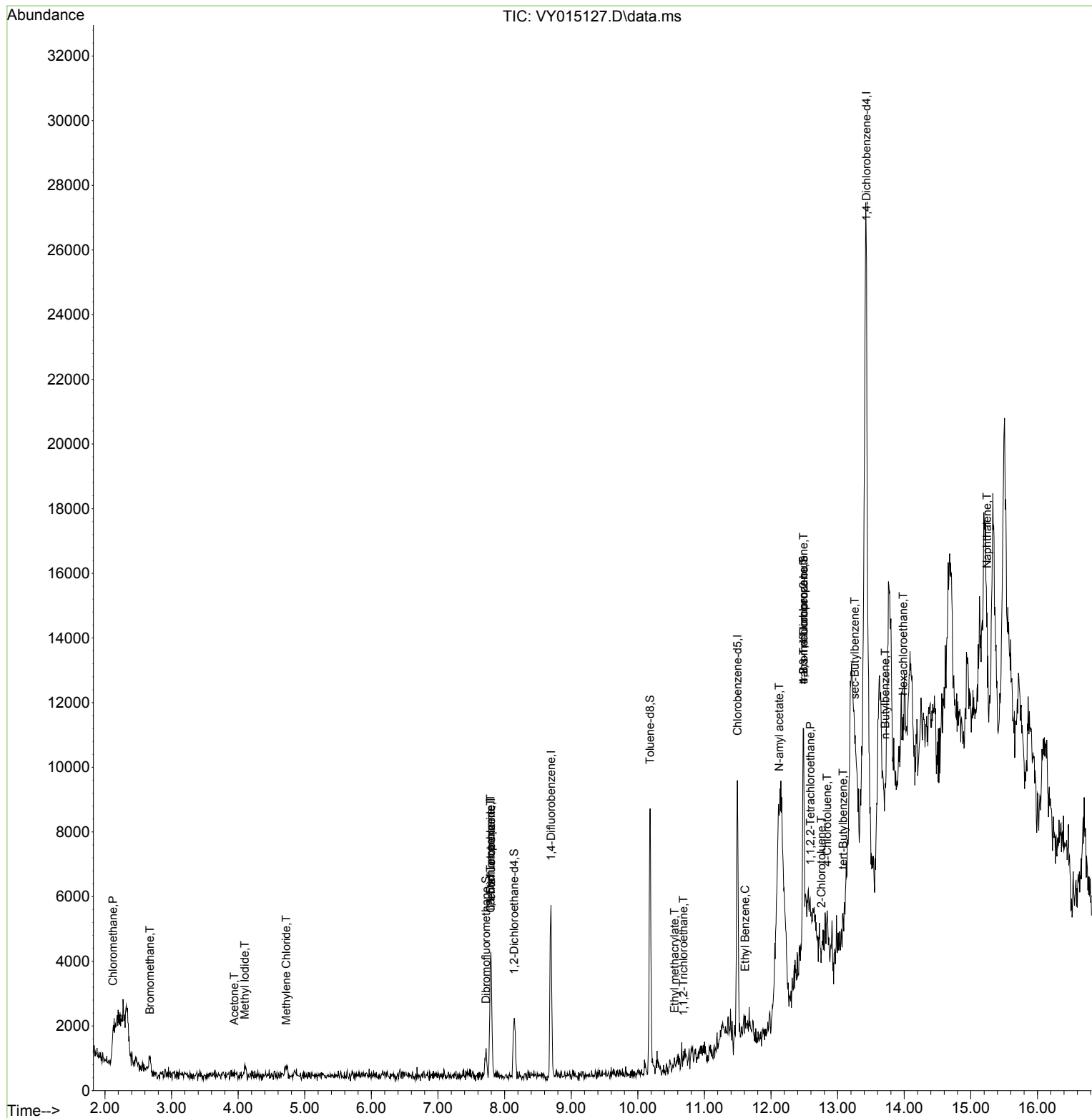
Internal Standards						
1) Pentafluorobenzene	7.795	168	3579	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.697	114	5192	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.495	117	4724	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	2349	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	1706	39.709	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	79.420%
35) Dibromofluoromethane	7.722	113	618	18.502	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	37.000%#
50) Toluene-d8	10.185	98	6072	48.833	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.660%
62) 4-Bromofluorobenzene	12.489	95	2167	47.715	ug/l	0.01
Spiked Amount	50.000	Range	30 - 143	Recovery	=	95.440%
Target Compounds						
					Qvalue	
3) Chloromethane	2.119	50	242	8.124	ug/l #	53
5) Bromomethane	2.674	94	367	16.324	ug/l #	74
10) Methyl Iodide	4.100	142	504	17.210	ug/l #	70
16) Acetone	3.942	43	39	2.779	ug/l #	46
20) Methylene Chloride	4.722	84	271	4.086	ug/l #	57
31) Cyclohexane	7.789	56	52	Below Cal	#	17
36) 1,1-Dichloropropene	7.789	75	195	5.277	ug/l #	41
38) Carbon Tetrachloride	7.789	117	253	5.785	ug/l #	12
55) 1,1,2-Trichloroethane	10.685	97	105	3.475	ug/l #	14
56) Ethyl methacrylate	10.551	69	61	1.380	ug/l #	7
67) Ethyl Benzene	11.611	91	235	1.558	ug/l #	44
74) N-amyl acetate	12.123	43	119	2.182	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.593	83	76	1.932	ug/l #	55
76) 1,2,3-Trichloropropane	12.489	75	1004	35.180	ug/l #	100
79) 2-Chlorotoluene	12.757	91	150	1.450	ug/l #	40
81) trans-1,4-Dichloro-2-b...	12.489	75	1004	77.273	ug/l #	22
82) 4-Chlorotoluene	12.843	91	188	1.759	ug/l #	40
83) tert-Butylbenzene	13.081	119	172	1.493	ug/l #	82
85) sec-Butylbenzene	13.257	105	456	2.702	ug/l #	56
89) n-Butylbenzene	13.715	91	151	1.145	ug/l	91
90) Hexachloroethane	13.983	117	130	4.684	ug/l #	8
95) Naphthalene	15.245	128	251	2.301	ug/l #	42

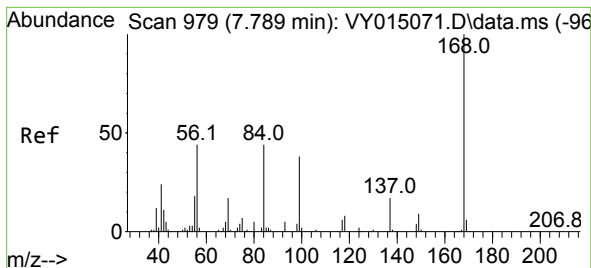
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Aug 14 12:43:26 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.795 min Scan# 91

Delta R.T. 0.012 min

Lab File: VY015127.D

Acq: 16 Aug 2023 01:19

Instrument :

MSVOA_Y

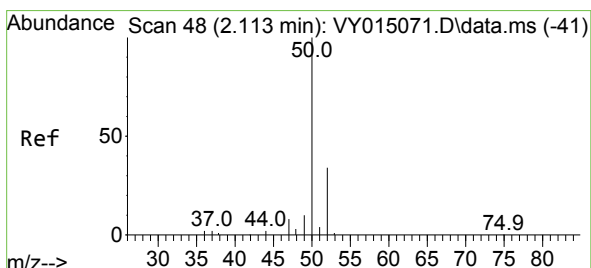
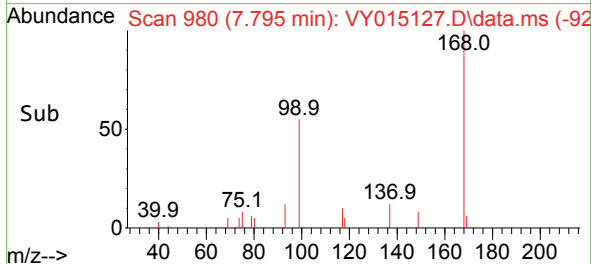
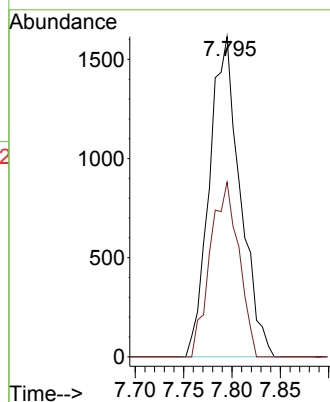
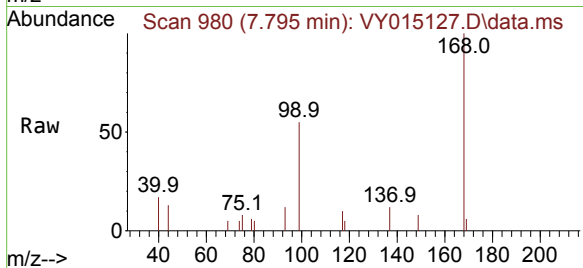
ClientSampleId :

Tgt Ion:168 Resp: 3579

Ion Ratio Lower Upper

168 100

99 54.6 43.4 65.0



#3

Chloromethane

Concen: 8.124 ug/l

RT: 2.119 min Scan# 49

Delta R.T. 0.012 min

Lab File: VY015127.D

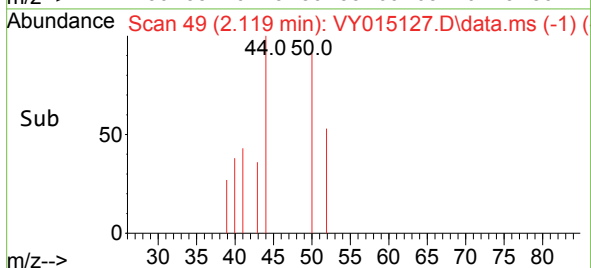
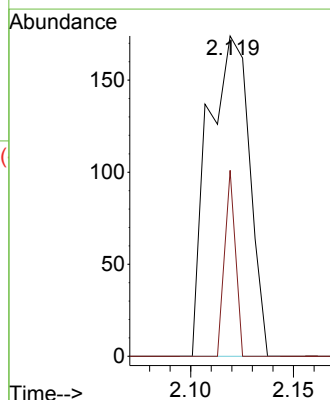
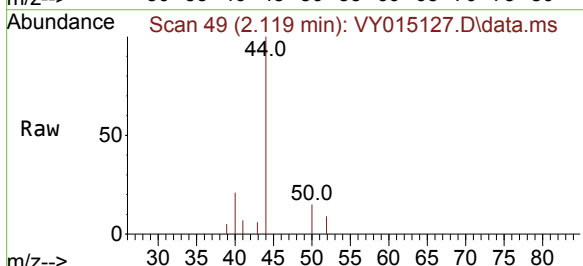
Acq: 16 Aug 2023 01:19

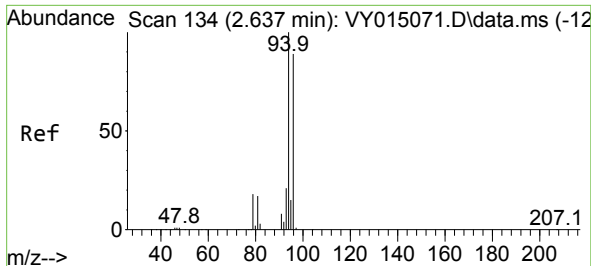
Tgt Ion: 50 Resp: 242

Ion Ratio Lower Upper

50 100

52 58.0 25.4 38.2#

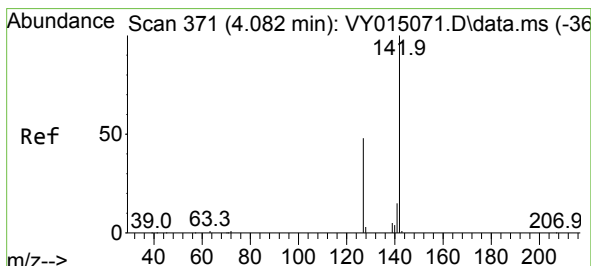
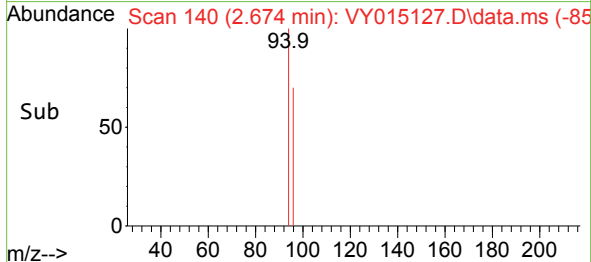
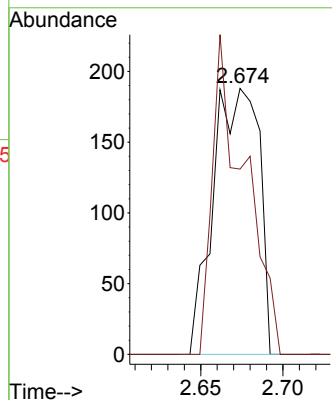
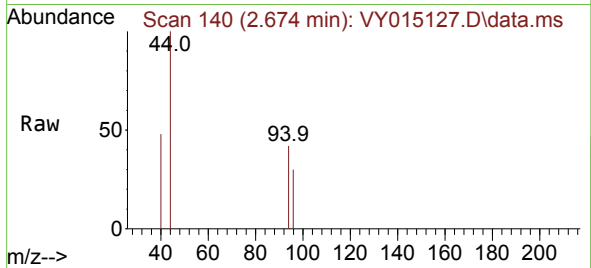




#5
Bromomethane
Concen: 16.324 ug/l
RT: 2.674 min Scan# 14
Delta R.T. 0.037 min
Lab File: VY015127.D
Acq: 16 Aug 2023 01:19

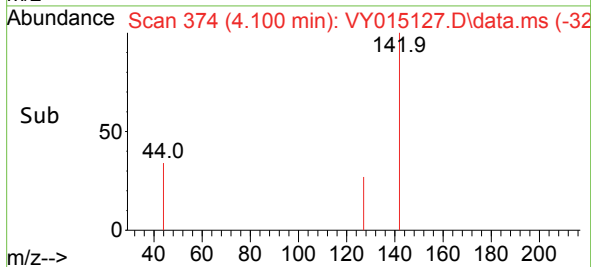
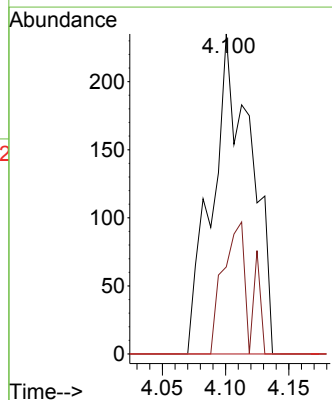
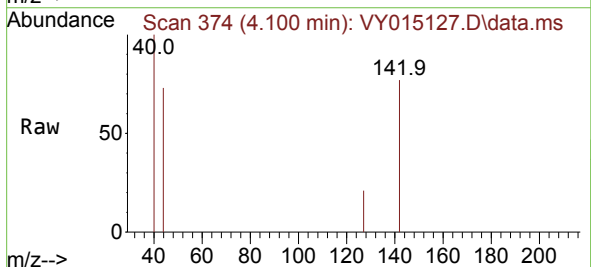
Instrument :
MSVOA_Y
ClientSampleId :

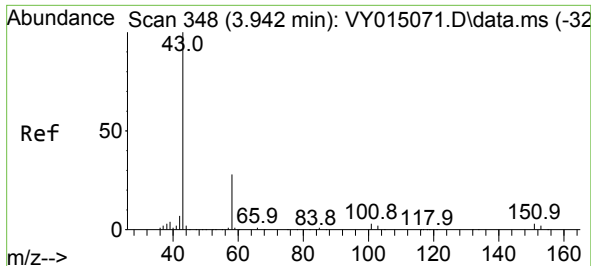
Tgt Ion: 94 Resp: 367
Ion Ratio Lower Upper
94 100
96 69.7 75.8 113.6#



#10
Methyl Iodide
Concen: 17.210 ug/l
RT: 4.100 min Scan# 374
Delta R.T. 0.018 min
Lab File: VY015127.D
Acq: 16 Aug 2023 01:19

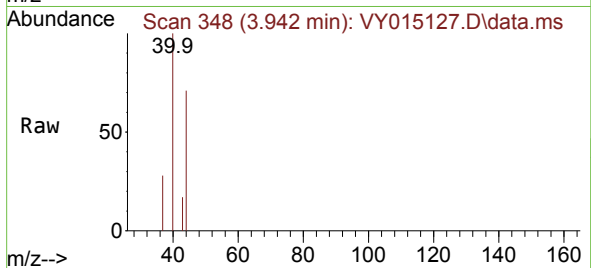
Tgt Ion:142 Resp: 504
Ion Ratio Lower Upper
142 100
127 27.8 37.6 56.4#
141 0.0 11.8 17.8#



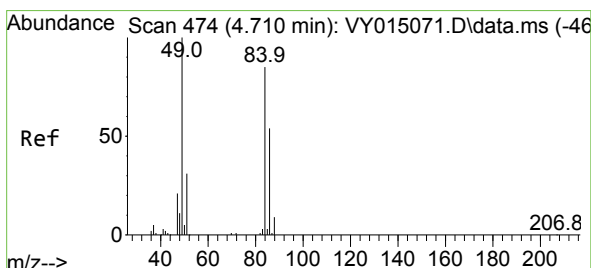
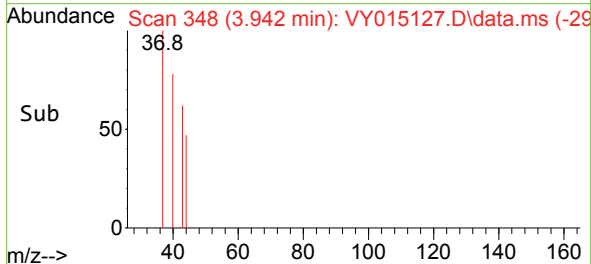
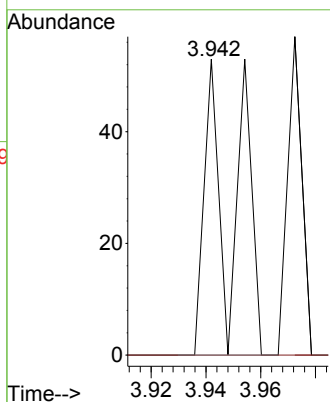


#16
Acetone
Concen: 2.779 ug/l
RT: 3.942 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY015127.D
Acq: 16 Aug 2023 01:19

Instrument :
MSVOA_Y
ClientSampleId :

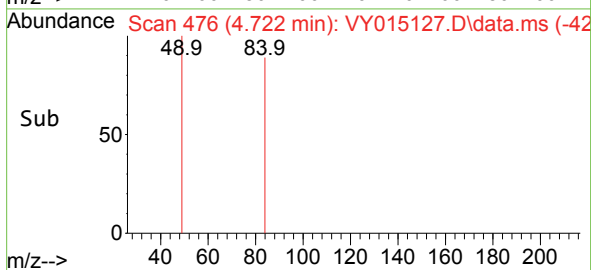
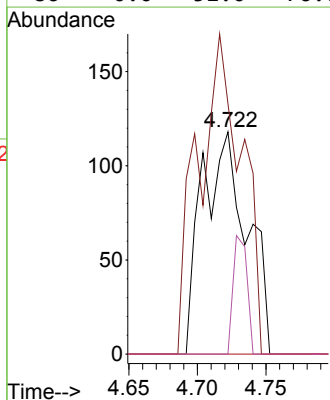
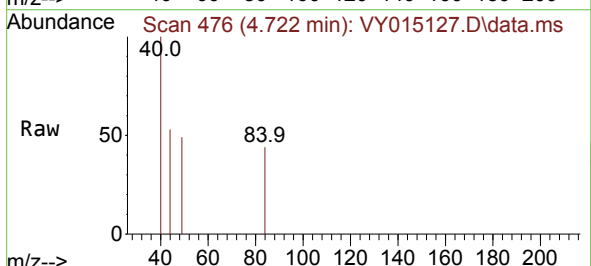


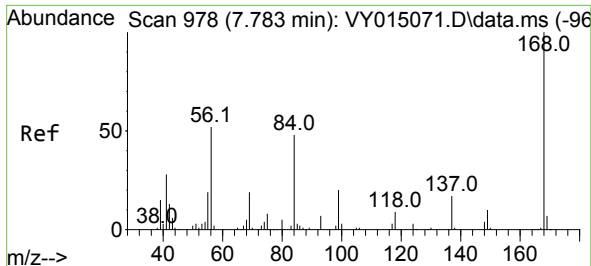
Tgt Ion: 43 Resp: 39
Ion Ratio Lower Upper
43 100
58 0.0 22.7 34.1#



#20
Methylene Chloride
Concen: 4.086 ug/l
RT: 4.722 min Scan# 476
Delta R.T. 0.012 min
Lab File: VY015127.D
Acq: 16 Aug 2023 01:19

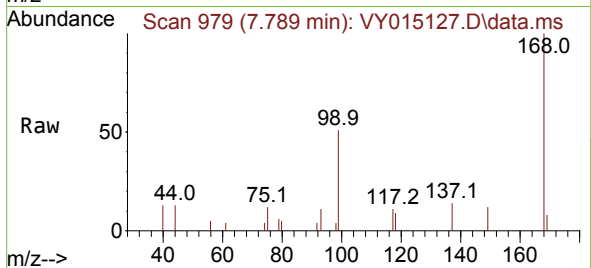
Tgt Ion: 84 Resp: 271
Ion Ratio Lower Upper
84 100
49 112.7 106.9 160.3
51 0.0 33.2 49.8#
86 0.0 51.0 76.6#



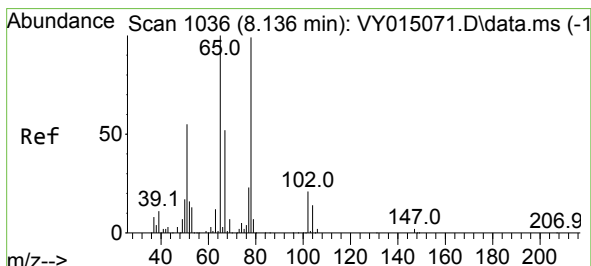
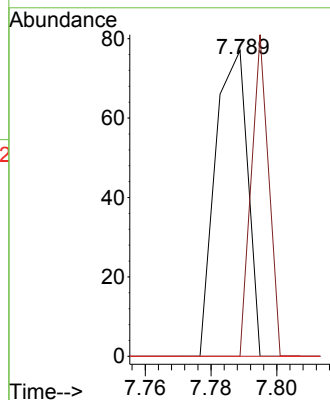
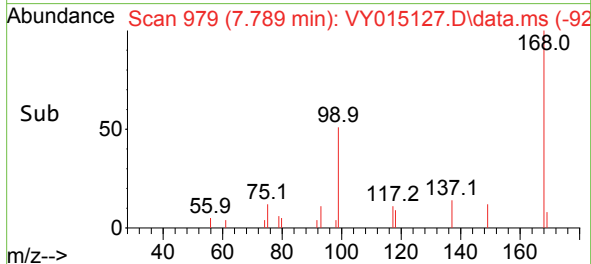


#31
Cyclohexane
Concen: Below Cal
RT: 7.789 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY015127.D
Acq: 16 Aug 2023 01:19

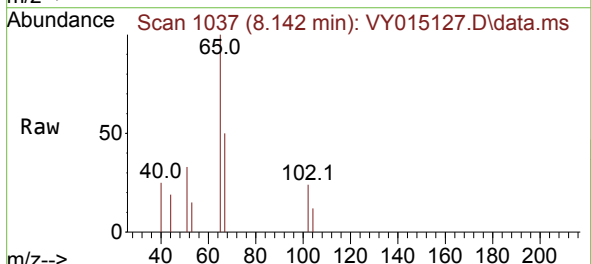
Instrument :
MSVOA_Y
ClientSampleId :



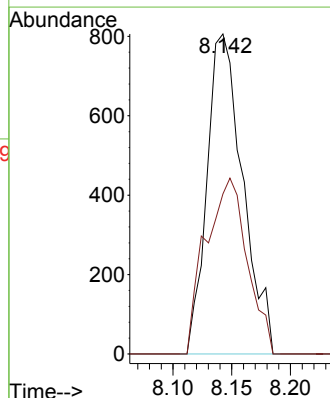
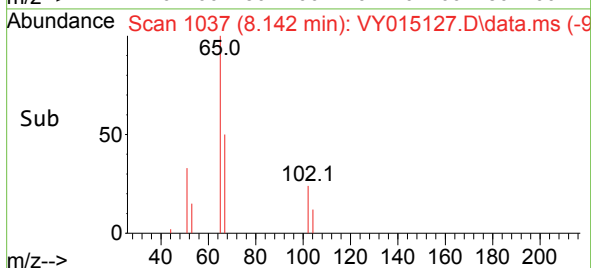
Tgt Ion: 56 Resp: 52
Ion Ratio Lower Upper
56 100
69 0.0 27.8 41.6#
84 0.0 66.4 99.6#

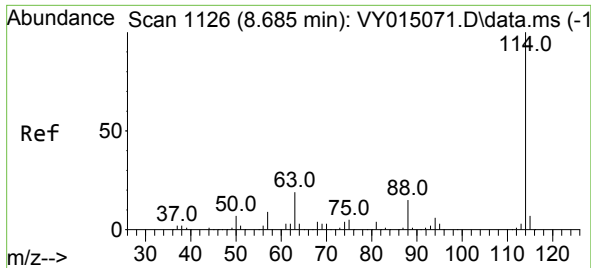


#33
1,2-Dichloroethane-d4
Concen: 39.709 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. 0.006 min
Lab File: VY015127.D
Acq: 16 Aug 2023 01:19



Tgt Ion: 65 Resp: 1706
Ion Ratio Lower Upper
65 100
67 63.9 0.0 101.8

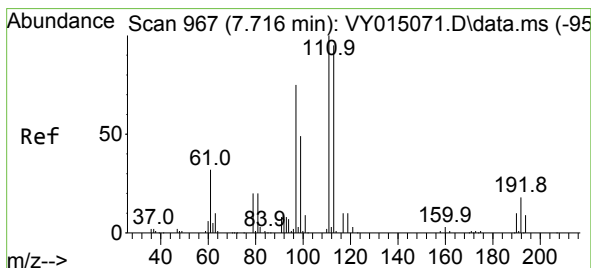
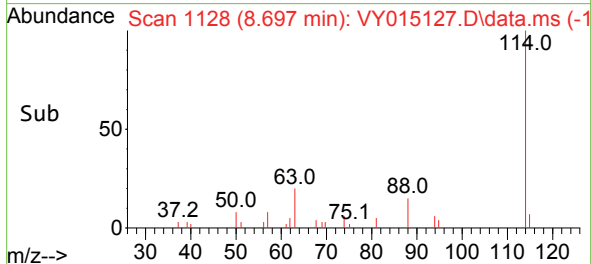
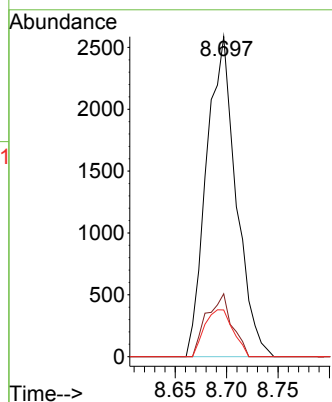
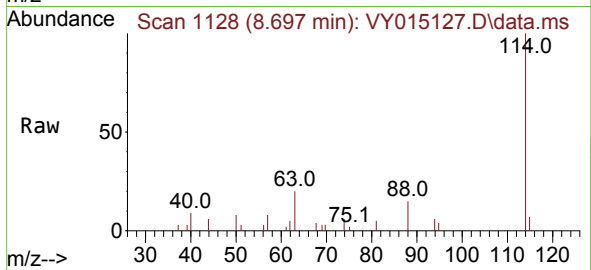




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.697 min Scan# 1128
Delta R.T. 0.012 min
Lab File: VY015127.D
Acq: 16 Aug 2023 01:19

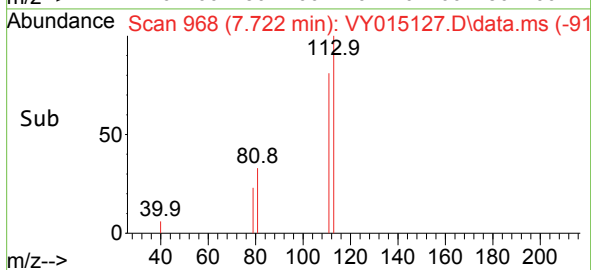
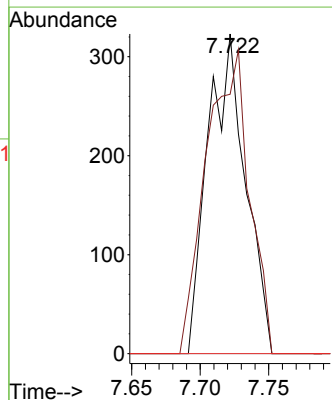
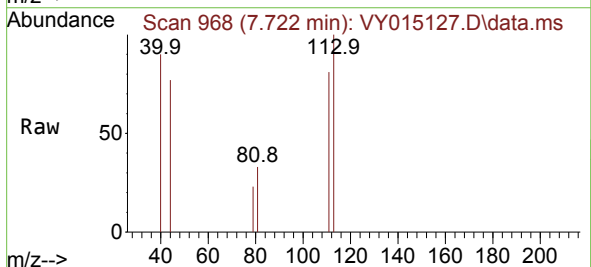
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ClientSampleId :

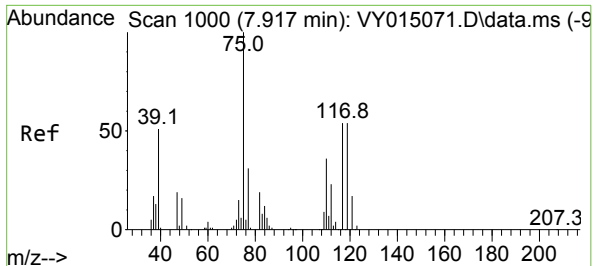
Tgt Ion:114 Resp: 5192
Ion Ratio Lower Upper
114 100
63 19.6 0.0 42.4
88 14.6 0.0 30.6



#35
Dibromofluoromethane
Concen: 18.502 ug/l
RT: 7.722 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY015127.D
Acq: 16 Aug 2023 01:19

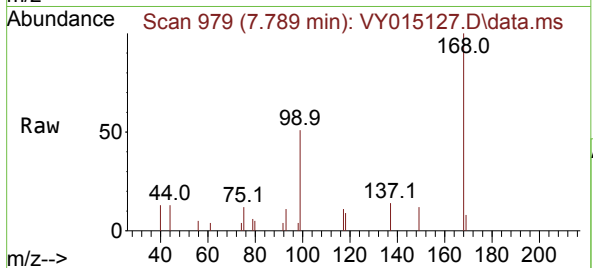
Tgt Ion:113 Resp: 618
Ion Ratio Lower Upper
113 100
111 108.1 81.3 121.9
192 0.0 16.9 25.3#



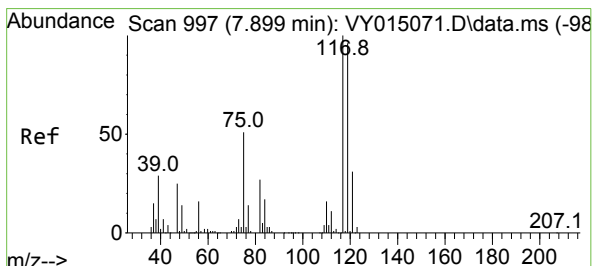
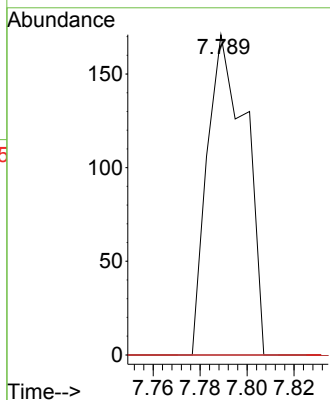
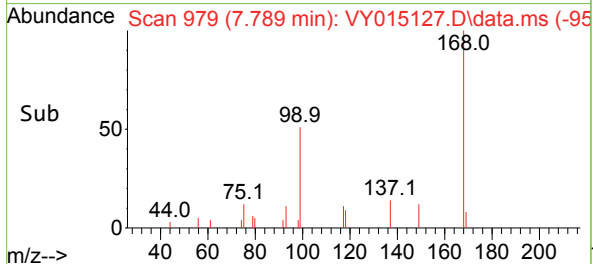


#36
 1,1-Dichloropropene
 Concen: 5.277 ug/l
 RT: 7.789 min Scan# 91
 Delta R.T. -0.122 min
 Lab File: VY015127.D
 Acq: 16 Aug 2023 01:19

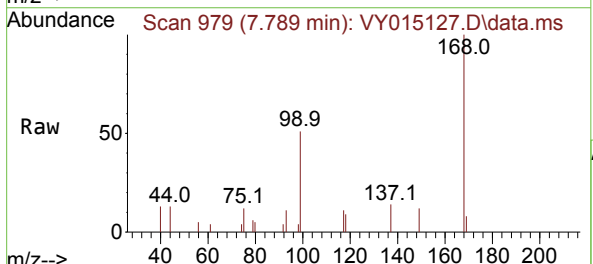
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 ClientSampleId :



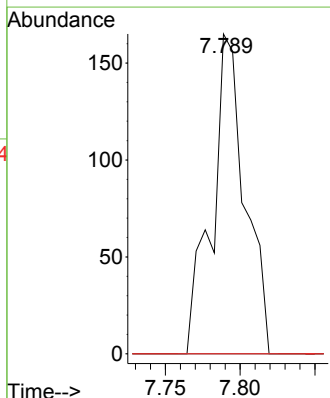
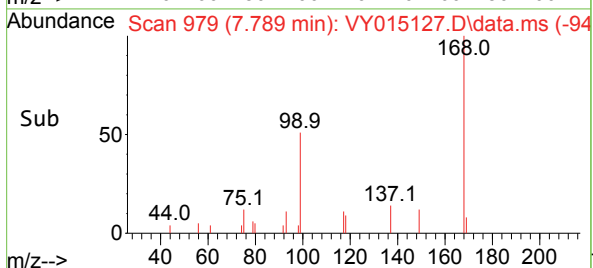
Tgt Ion: 75 Resp: 195
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.8 53.5#
 77 0.0 24.4 36.6#

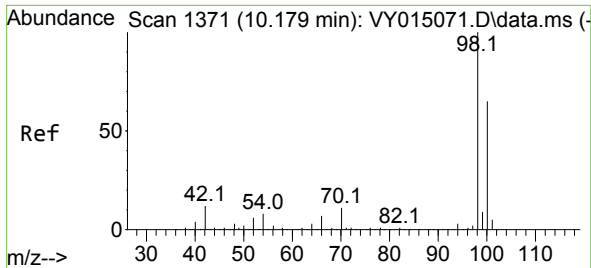


#38
 Carbon Tetrachloride
 Concen: 5.785 ug/l
 RT: 7.789 min Scan# 979
 Delta R.T. -0.110 min
 Lab File: VY015127.D
 Acq: 16 Aug 2023 01:19



Tgt Ion: 117 Resp: 253
 Ion Ratio Lower Upper
 117 100
 119 0.0 76.4 114.6#
 121 0.0 25.8 38.6#

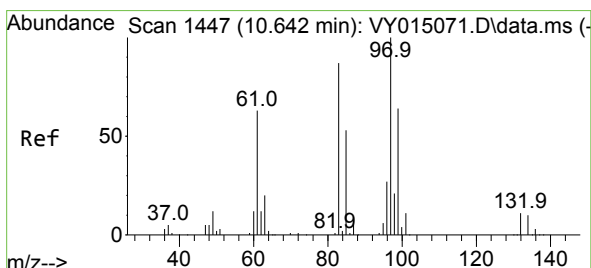
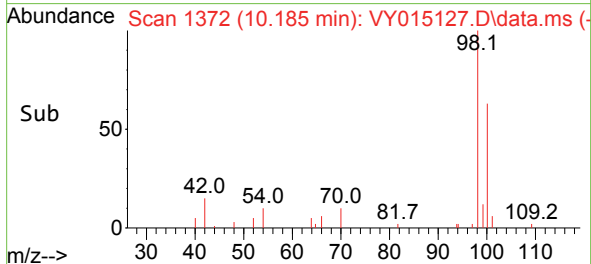
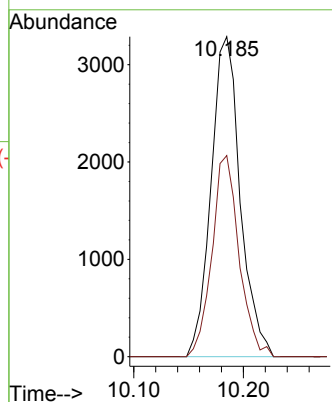
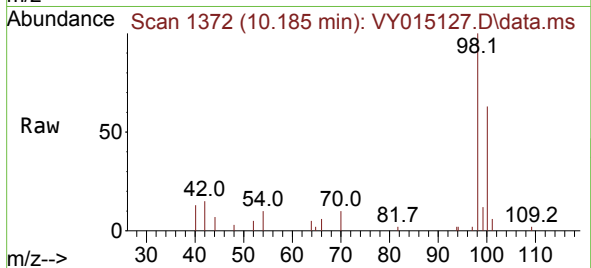




#50
Toluene-d8
Concen: 48.833 ug/l
RT: 10.185 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY015127.D
Acq: 16 Aug 2023 01:19

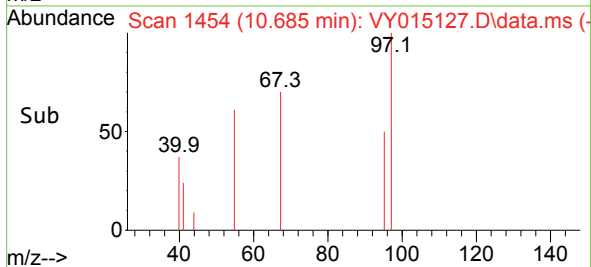
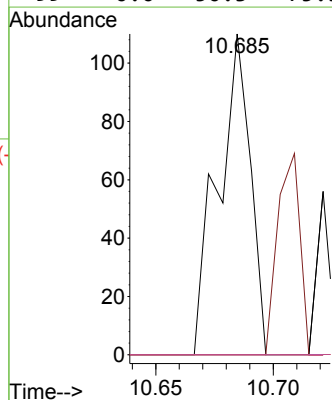
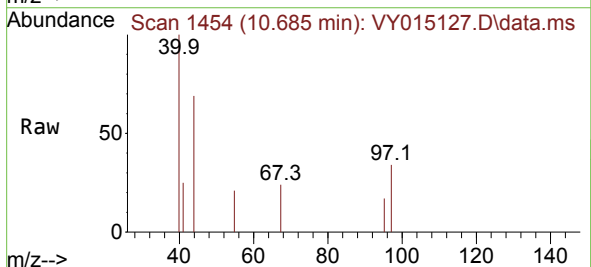
Instrument :
MSVOA_Y
ClientSampleId :

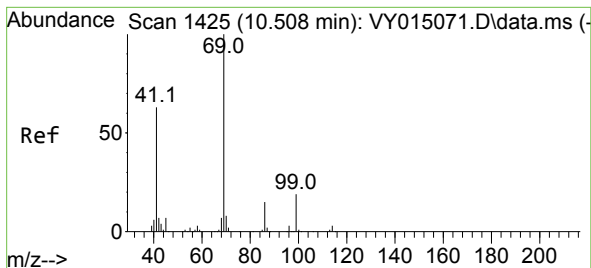
Tgt Ion: 98 Resp: 6072
Ion Ratio Lower Upper
98 100
100 58.4 50.1 75.1



#55
1,1,2-Trichloroethane
Concen: 3.475 ug/l
RT: 10.685 min Scan# 1454
Delta R.T. 0.043 min
Lab File: VY015127.D
Acq: 16 Aug 2023 01:19

Tgt Ion: 97 Resp: 105
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#





#56

Ethyl methacrylate

Concen: 1.380 ug/l

RT: 10.551 min Scan# 14

Delta R.T. 0.043 min

Lab File: VY015127.D

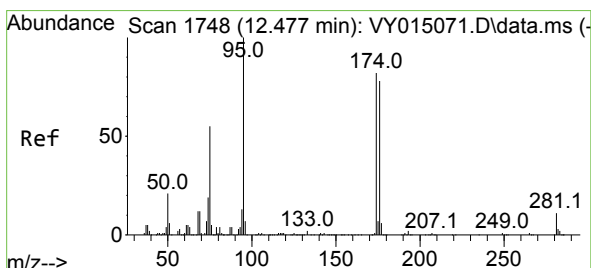
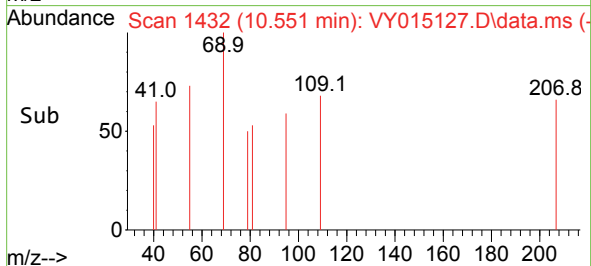
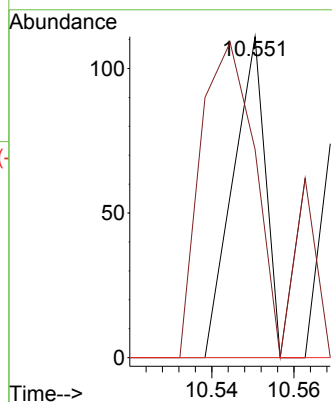
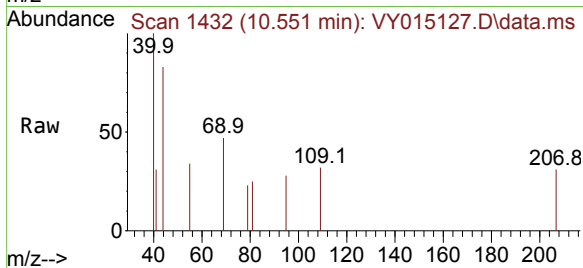
Acq: 16 Aug 2023 01:19

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 69	Resp: 61
Ion Ratio	Lower Upper
69	100
41	162.3 57.6 86.4#
39	0.0 34.1 51.1#



#62

4-Bromofluorobenzene

Concen: 47.715 ug/l

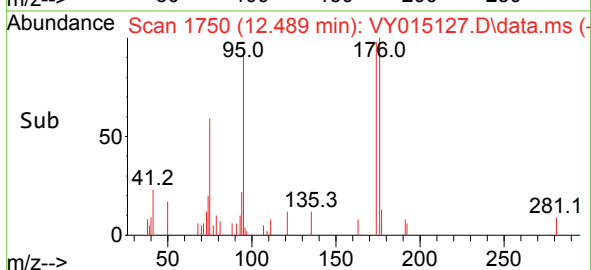
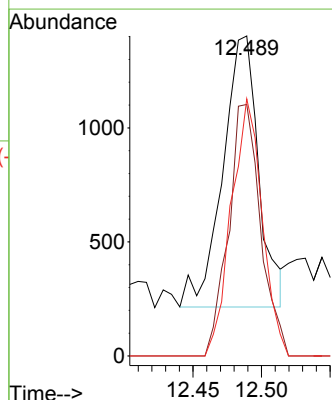
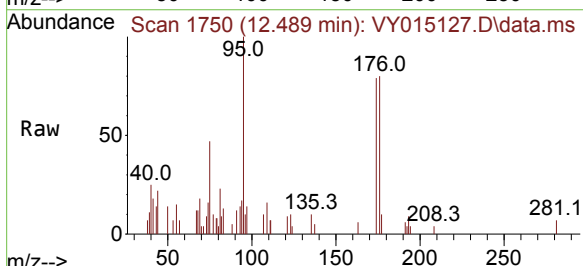
RT: 12.489 min Scan# 1750

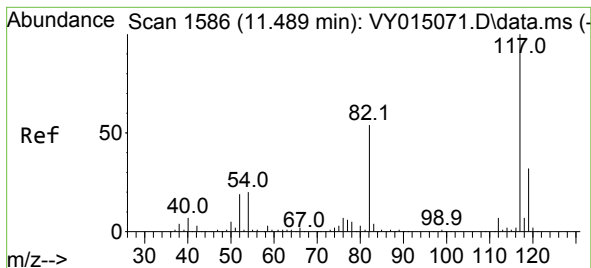
Delta R.T. 0.012 min

Lab File: VY015127.D

Acq: 16 Aug 2023 01:19

Tgt Ion: 95	Resp: 2167
Ion Ratio	Lower Upper
95	100
174	82.6 0.0 178.2
176	81.1 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.495 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY015127.D

Acq: 16 Aug 2023 01:19

Instrument :

MSVOA_Y

ClientSampleId :

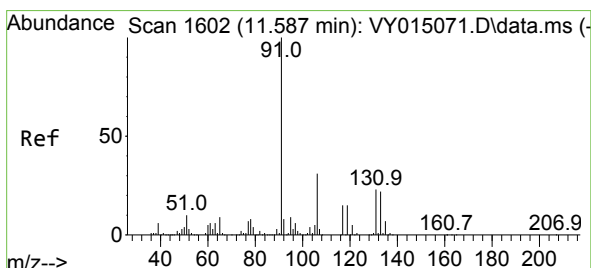
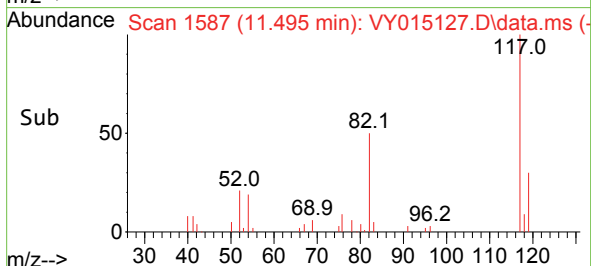
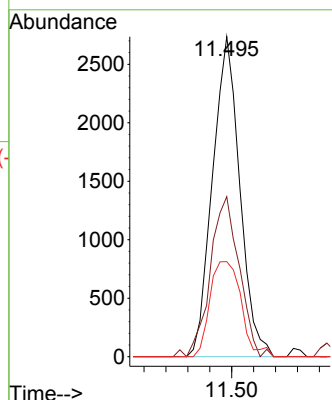
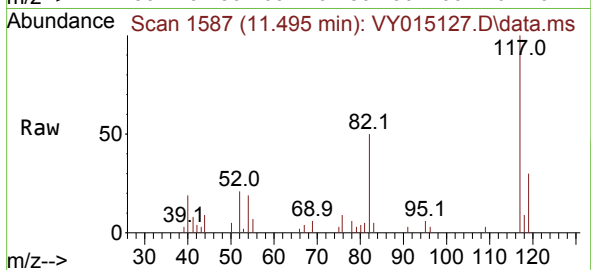
Tgt Ion:117 Resp: 4724

Ion Ratio Lower Upper

117 100

82 50.0 43.4 65.0

119 29.7 26.3 39.5



#67

Ethyl Benzene

Concen: 1.558 ug/l

RT: 11.611 min Scan# 1606

Delta R.T. 0.024 min

Lab File: VY015127.D

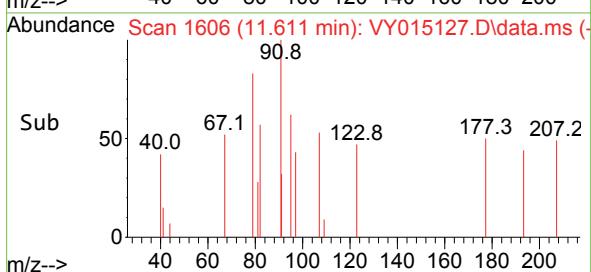
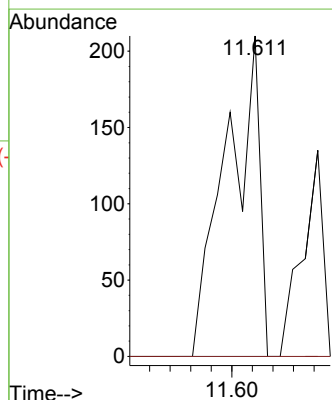
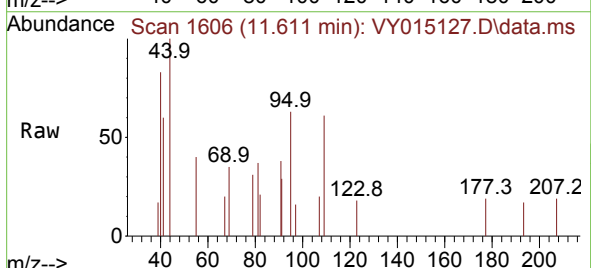
Acq: 16 Aug 2023 01:19

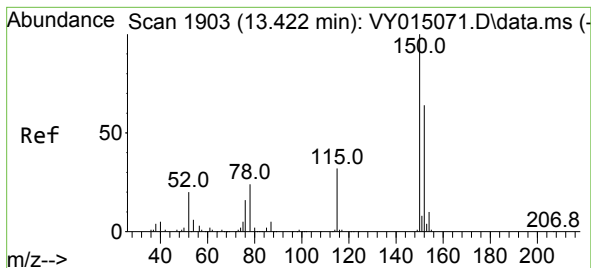
Tgt Ion: 91 Resp: 235

Ion Ratio Lower Upper

91 100

106 0.0 24.6 36.8#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1905

Delta R.T. 0.012 min

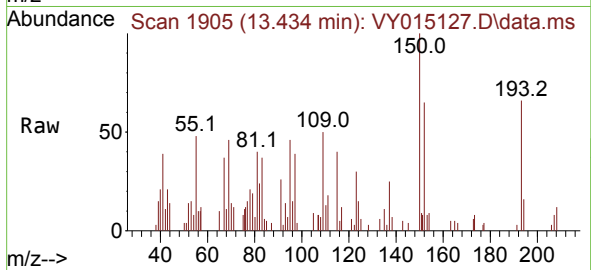
Lab File: VY015127.D

Acq: 16 Aug 2023 01:19

Instrument :

MSVOA_Y

ClientSampleId :



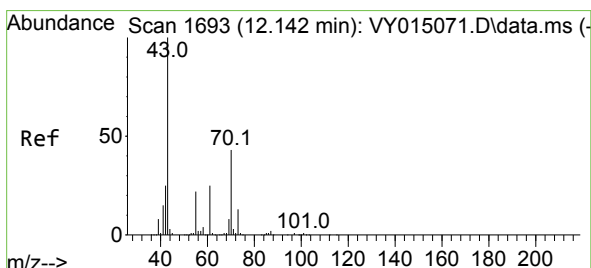
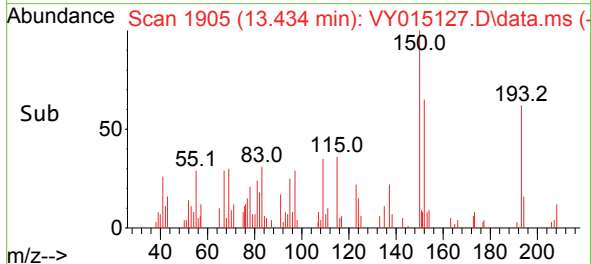
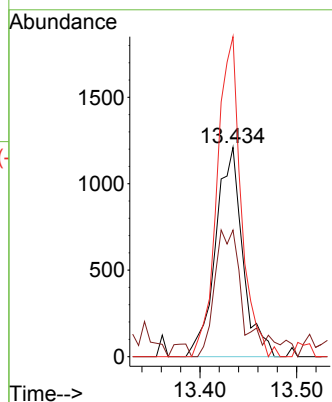
Tgt Ion:152 Resp: 2349

Ion Ratio Lower Upper

152 100

115 66.3 28.8 86.5

150 136.2 0.0 348.8



#74

N-ethyl acetate

Concen: 2.182 ug/l

RT: 12.123 min Scan# 1690

Delta R.T. -0.018 min

Lab File: VY015127.D

Acq: 16 Aug 2023 01:19

Tgt Ion: 43 Resp: 119

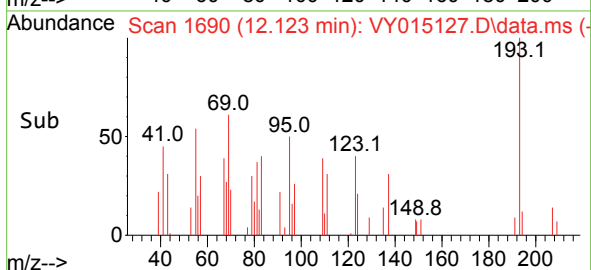
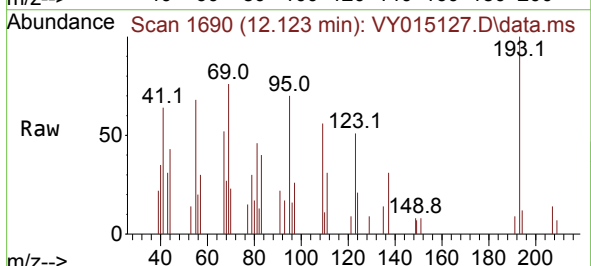
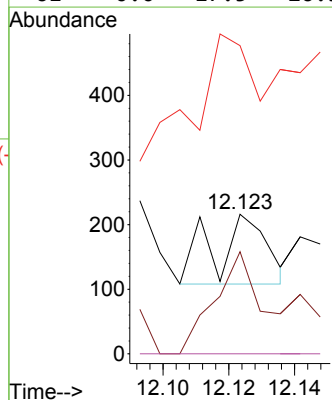
Ion Ratio Lower Upper

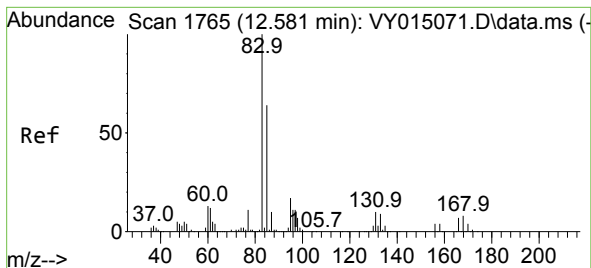
43 100

70 133.6 29.7 44.5#

55 201.7 18.3 27.5#

61 0.0 17.5 26.3#





#75

1,1,2,2-Tetrachloroethane

Concen: 1.932 ug/l

RT: 12.593 min Scan# 1767

Delta R.T. 0.012 min

Lab File: VY015127.D

Acq: 16 Aug 2023 01:19

Instrument :

MSVOA_Y

ClientSampleId :

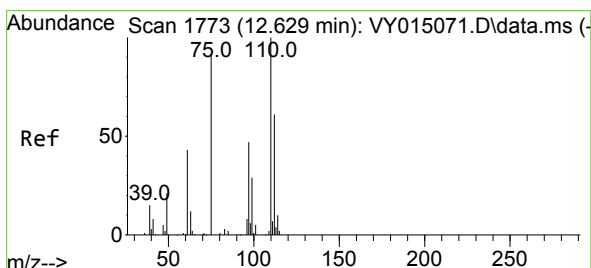
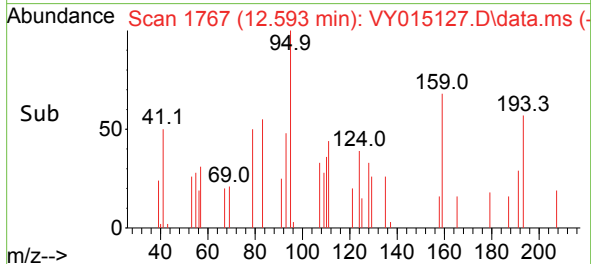
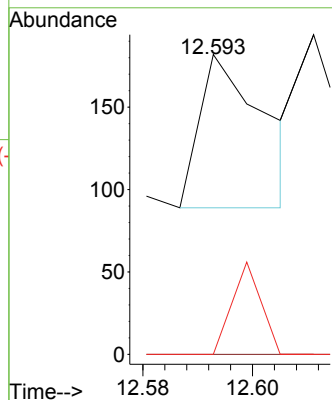
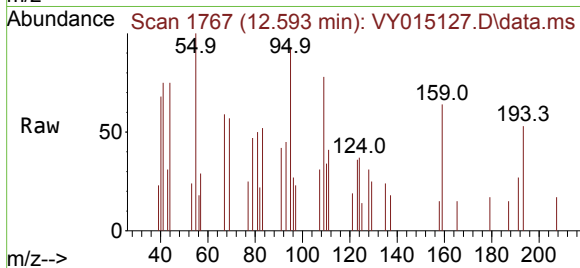
Tgt Ion: 83 Resp: 76

Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

85 26.3 31.8 95.4#



#76

1,2,3-Trichloropropane

Concen: 35.180 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. -0.140 min

Lab File: VY015127.D

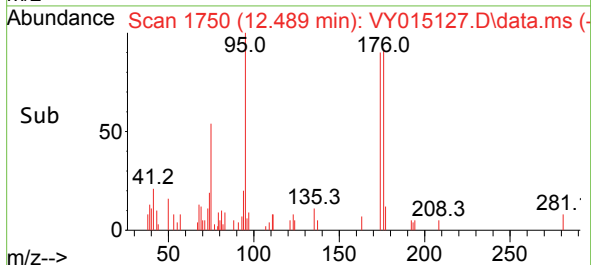
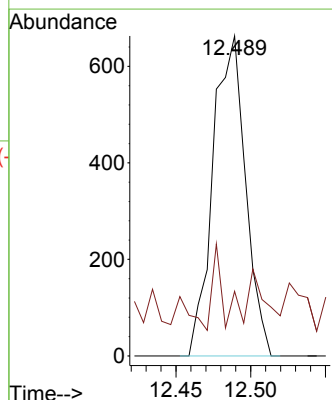
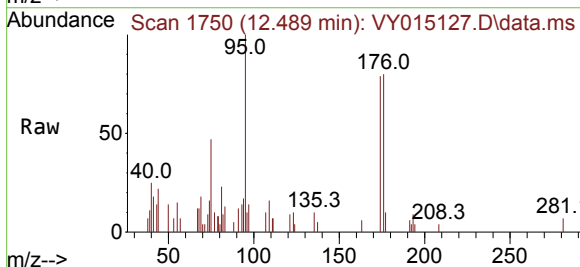
Acq: 16 Aug 2023 01:19

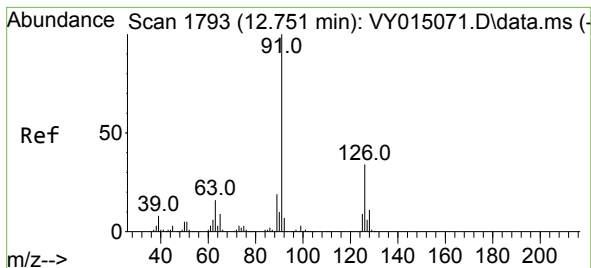
Tgt Ion: 75 Resp: 1004

Ion Ratio Lower Upper

75 100

77 17.5 0.0 0.0#





#79

2-Chlorotoluene

Concen: 1.450 ug/l

RT: 12.757 min Scan# 1793

Delta R.T. 0.006 min

Lab File: VY015127.D

Acq: 16 Aug 2023 01:19

Instrument :

MSVOA_Y

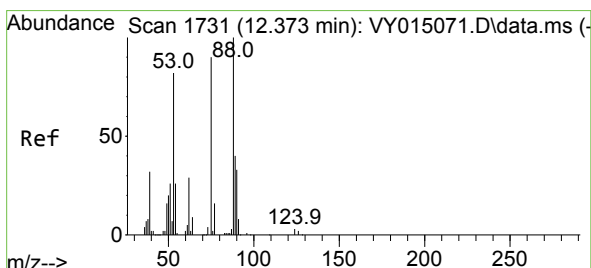
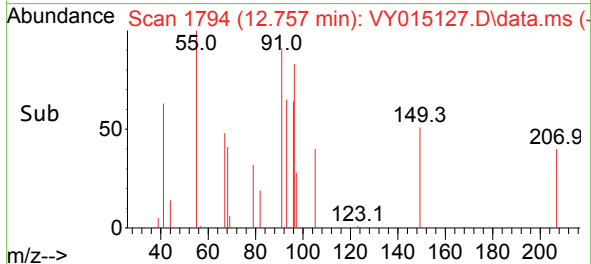
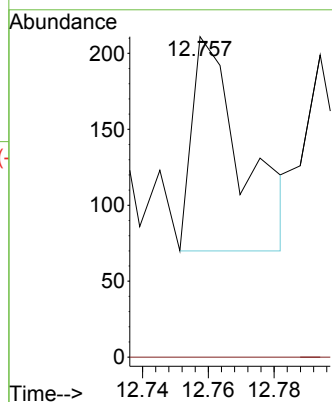
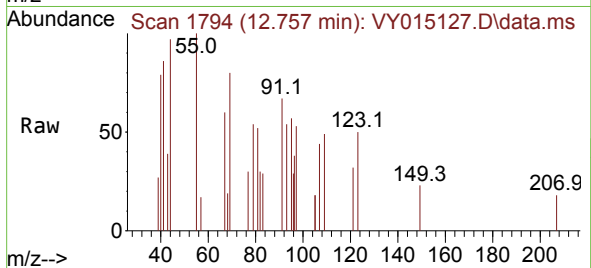
ClientSampleId :

Tgt Ion: 91 Resp: 150

Ion Ratio Lower Upper

91 100

126 0.0 17.3 51.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 77.273 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. 0.116 min

Lab File: VY015127.D

Acq: 16 Aug 2023 01:19

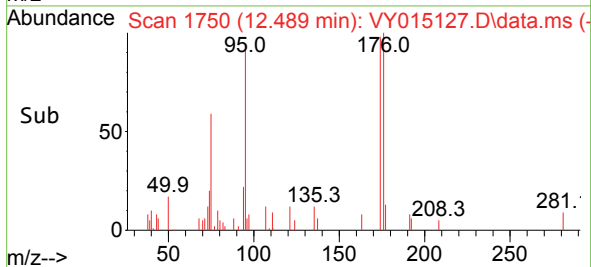
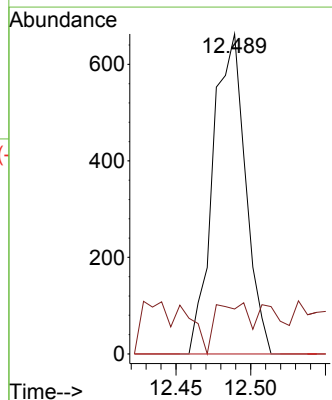
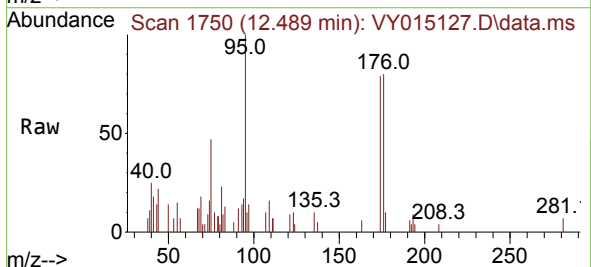
Tgt Ion: 75 Resp: 1004

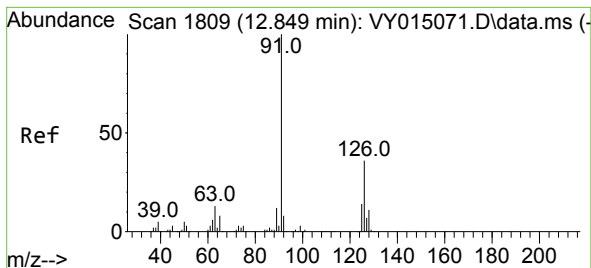
Ion Ratio Lower Upper

75 100

53 16.4 77.8 116.8#

89 0.0 37.4 56.0#

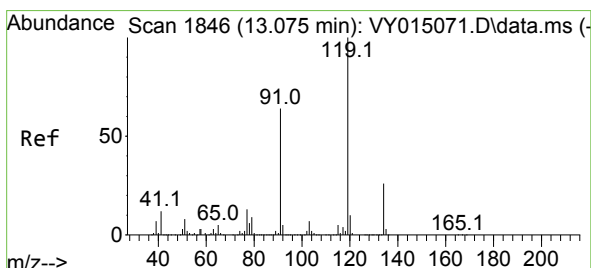
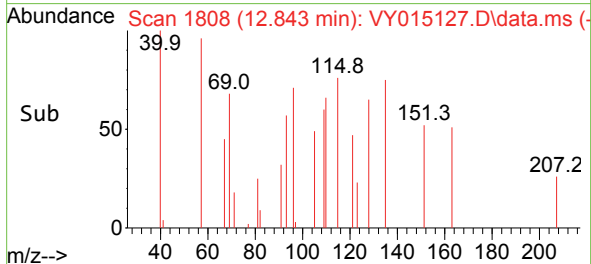
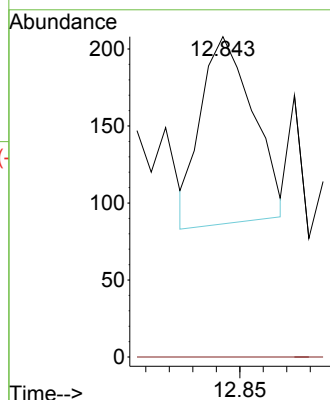
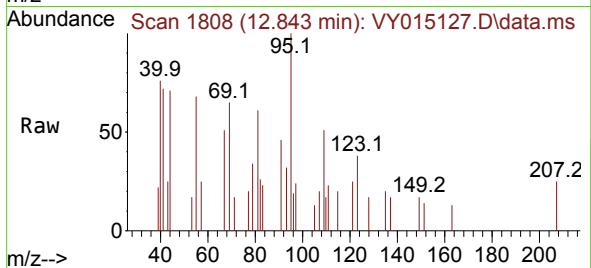




#82
4-Chlorotoluene
Concen: 1.759 ug/l
RT: 12.843 min Scan# 1808
Delta R.T. -0.012 min
Lab File: VY015127.D
Acq: 16 Aug 2023 01:19

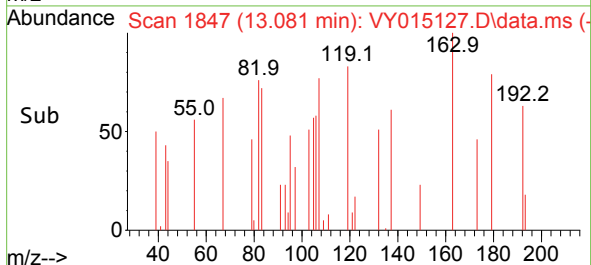
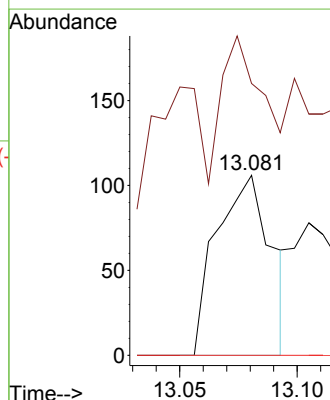
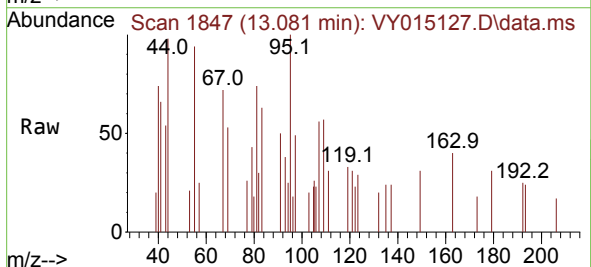
Instrument :
MSVOA_Y
ClientSampleId :

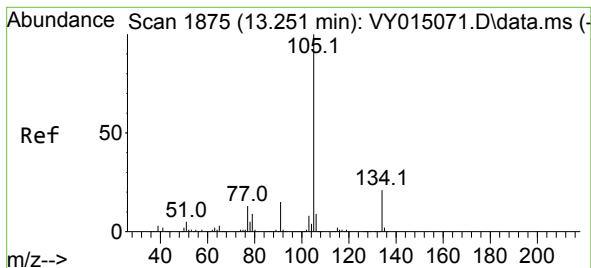
Tgt Ion: 91 Resp: 188
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#



#83
tert-Butylbenzene
Concen: 1.493 ug/l
RT: 13.081 min Scan# 1847
Delta R.T. 0.006 min
Lab File: VY015127.D
Acq: 16 Aug 2023 01:19

Tgt Ion: 119 Resp: 172
Ion Ratio Lower Upper
119 100
91 62.2 32.9 98.6
134 0.0 13.0 38.9#





#85

sec-Butylbenzene

Concen: 2.702 ug/l

RT: 13.257 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY015127.D

Acq: 16 Aug 2023 01:19

Instrument :

MSVOA_Y

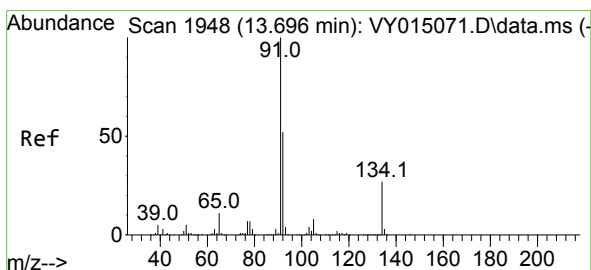
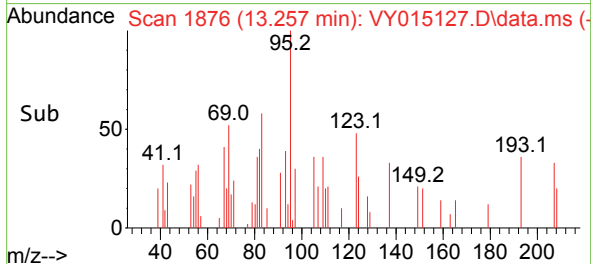
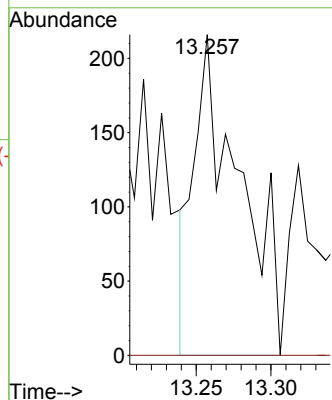
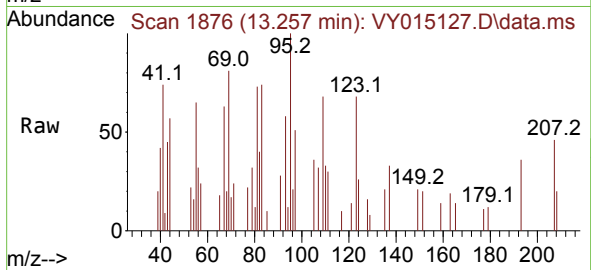
ClientSampleId :

Tgt Ion:105 Resp: 456

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.6#



#89

n-Butylbenzene

Concen: 1.145 ug/l

RT: 13.715 min Scan# 1951

Delta R.T. 0.018 min

Lab File: VY015127.D

Acq: 16 Aug 2023 01:19

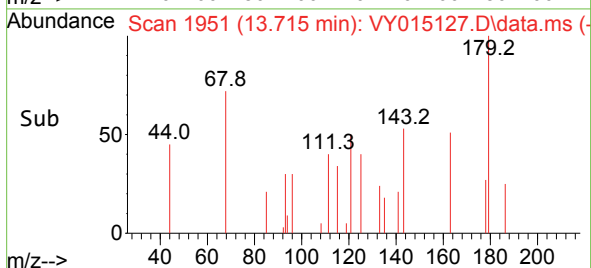
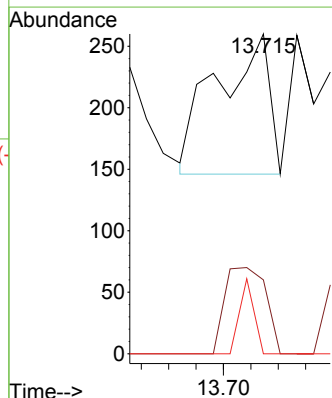
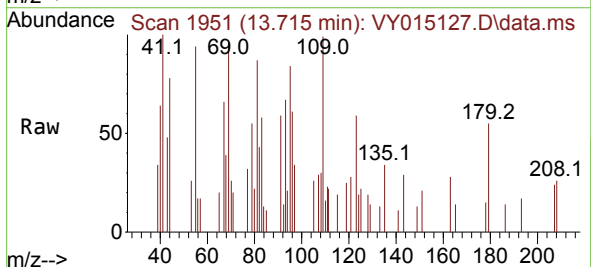
Tgt Ion: 91 Resp: 151

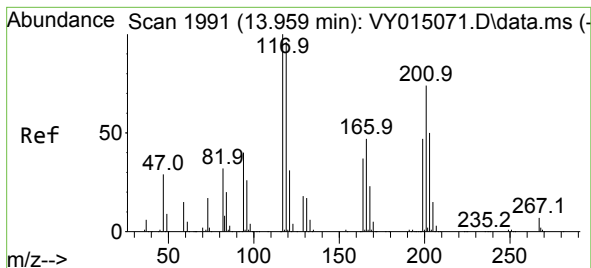
Ion Ratio Lower Upper

91 100

92 48.3 25.4 76.0

134 14.6 12.6 37.6

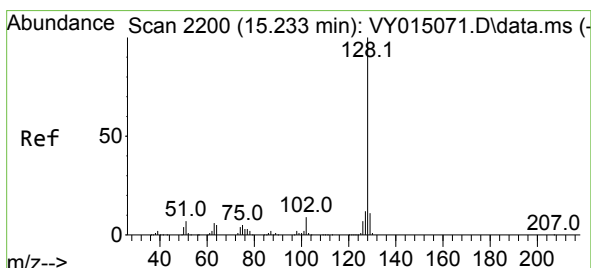
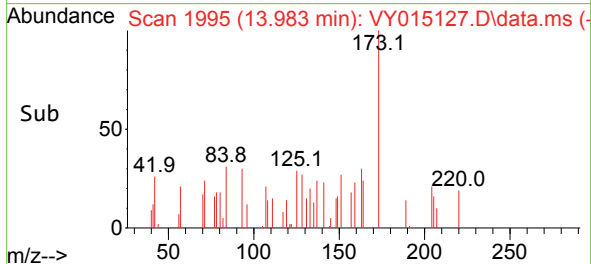
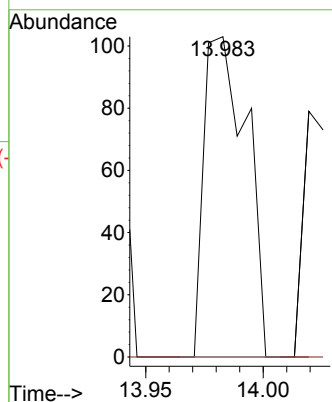
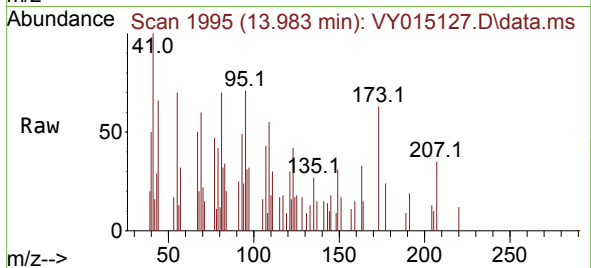




#90
Hexachloroethane
Concen: 4.684 ug/l
RT: 13.983 min Scan# 1995
Delta R.T. 0.024 min
Lab File: VY015127.D
Acq: 16 Aug 2023 01:19

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion:117 Resp: 130
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#



#95
Naphthalene
Concen: 2.301 ug/l
RT: 15.245 min Scan# 2202
Delta R.T. 0.012 min
Lab File: VY015127.D
Acq: 16 Aug 2023 01:19

Tgt Ion:128 Resp: 251
Ion Ratio Lower Upper
128 100
127 25.9 10.8 16.2#
129 45.8 8.6 13.0#

