

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050422\
 Data File : VY008615.D
 Acq On : 04 May 2022 16:23
 Operator : KP/MD
 Sample : N2619-08
 Misc : 6.29g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB04-14-15-FT

Quant Time: May 05 04:36:29 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y050222S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 03 01:57:20 2022
 Response via : Initial Calibration

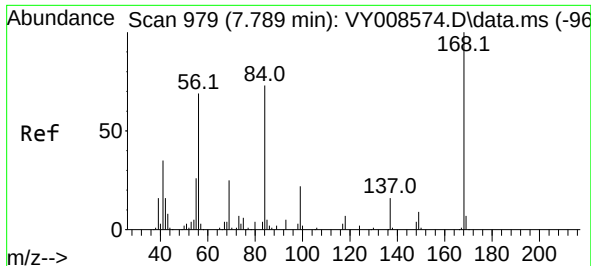
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.789	168	130322	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	226116	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	234024	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	114191	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	65583	51.777	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.560%			
35) Dibromofluoromethane	7.716	113	70552	47.154	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 94.300%			
50) Toluene-d8	10.179	98	271869	51.288	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 102.580%			
62) 4-Bromofluorobenzene	12.483	95	99064	50.989	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 101.980%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.668	94	143	Below Cal	#	62
11) Tert butyl alcohol	4.954	59	278	Below Cal	#	77
13) Acrolein	3.936	56	2953	17.254	ug/l #	73
14) Allyl chloride	4.704	41	18813	11.490	ug/l #	56
15) Acrylonitrile	5.234	53	1698	4.710	ug/l #	40
16) Acetone	3.942	43	13755	50.401	ug/l	94
18) Methyl Acetate	4.698	43	46291	59.863	ug/l #	56
20) Methylene Chloride	4.716	84	7935	Below Cal	#	70
25) 2-Butanone	6.996	43	3649	8.330	ug/l	96
30) Chloroform	7.502	83	3953	1.481	ug/l	92
31) Cyclohexane	7.783	56	6757	3.091	ug/l #	54
38) Carbon Tetrachloride	7.789	117	12086	4.553	ug/l #	15
39) Methylcyclohexane	9.179	83	4331	1.411	ug/l	90
43) Isopropyl Acetate	8.271	43	2237	1.030	ug/l #	56
73) Isopropylbenzene	12.331	105	63623	7.142	ug/l	99
76) 1,2,3-Trichloropropane	12.483	75	48659	39.918	ug/l #	100
78) n-propylbenzene	12.672	91	126166	12.171	ug/l	97
79) 2-Chlorotoluene	12.672	91	126166	21.616	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.971	105	8252	1.121	ug/l	73
81) trans-1,4-Dichloro-2-b...	12.483	75	48659	80.931	ug/l #	7
82) 4-Chlorotoluene	12.672	91	126166	20.984	ug/l #	41
85) sec-Butylbenzene	13.257	105	16812	1.730	ug/l #	60
90) Hexachloroethane	13.971	117	5710	3.738	ug/l #	6

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

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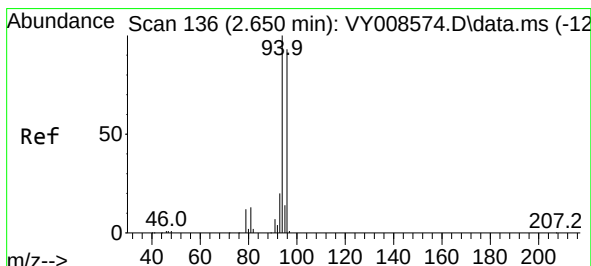
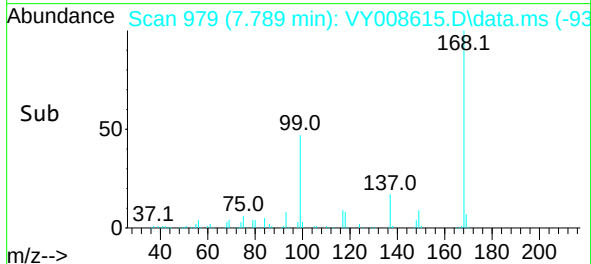
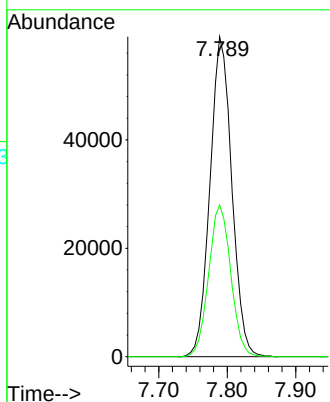
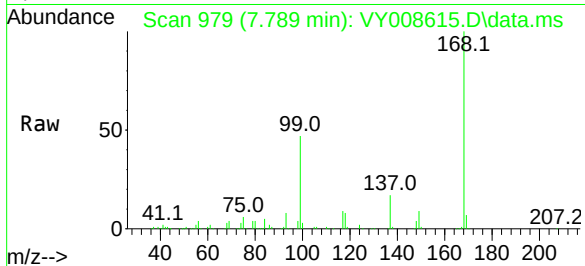




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY008615.D
Acq: 04 May 2022 16:23

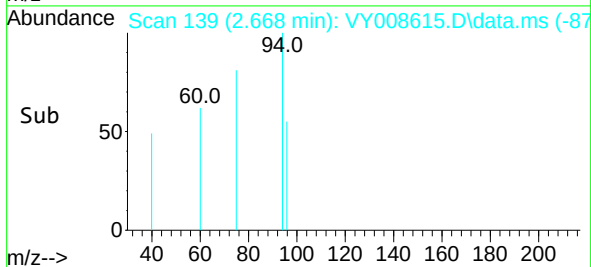
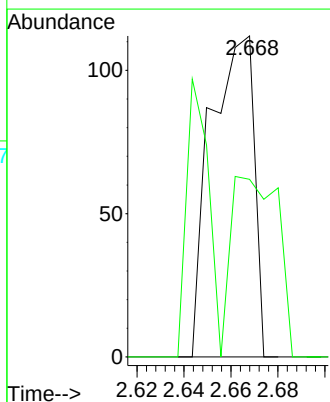
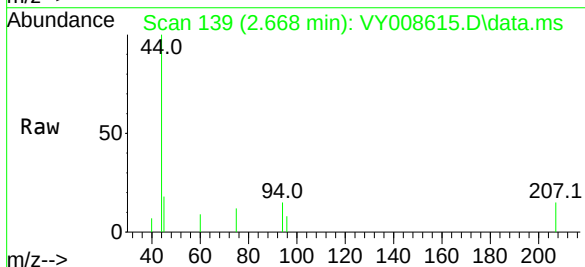
Instrument :
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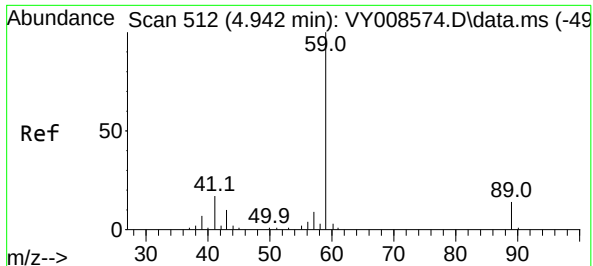
Tgt Ion:168 Resp: 130322
Ion Ratio Lower Upper
168 100
99 47.4 46.9 70.3



#5
Bromomethane
Concen: Below Cal
RT: 2.668 min Scan# 139
Delta R.T. 0.018 min
Lab File: VY008615.D
Acq: 04 May 2022 16:23

Tgt Ion: 94 Resp: 143
Ion Ratio Lower Upper
94 100
96 55.4 73.5 110.3#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.954 min Scan# 51

Delta R.T. 0.012 min

Lab File: VY008615.D

Acq: 04 May 2022 16:23

Instrument :

MSVOA_Y

ClientSampleId :

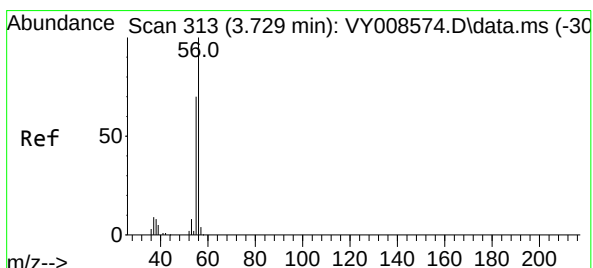
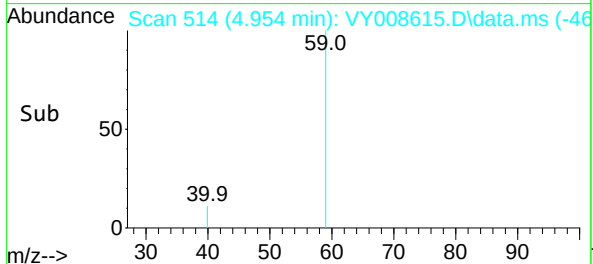
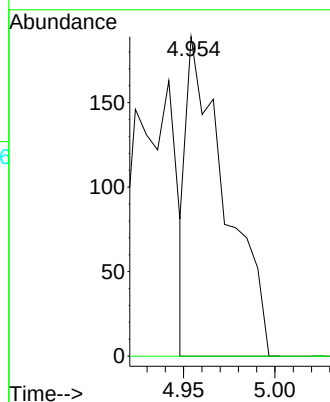
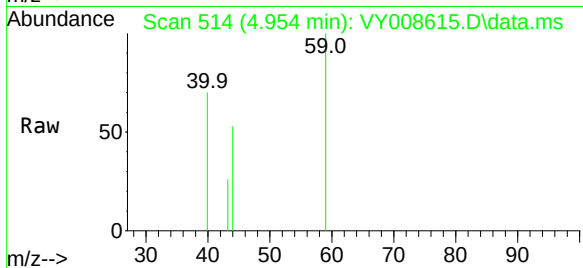
SB04-14-15-FT

Tgt Ion: 59 Resp: 278

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#



#13

Acrolein

Concen: 17.254 ug/l

RT: 3.936 min Scan# 347

Delta R.T. 0.207 min

Lab File: VY008615.D

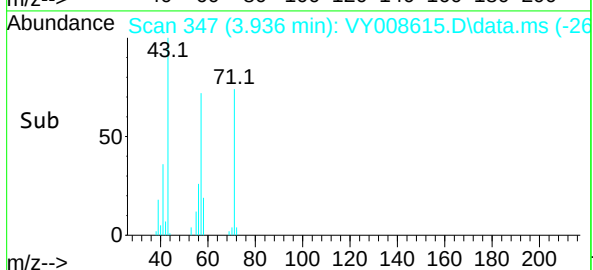
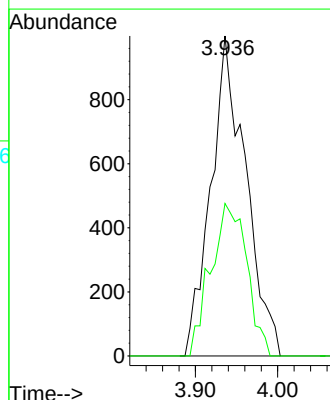
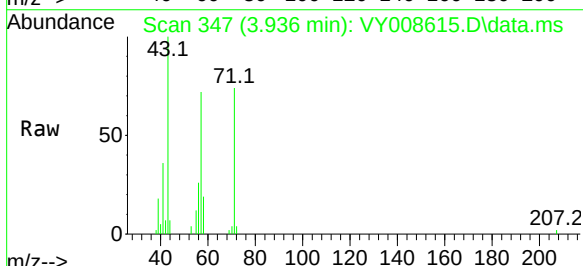
Acq: 04 May 2022 16:23

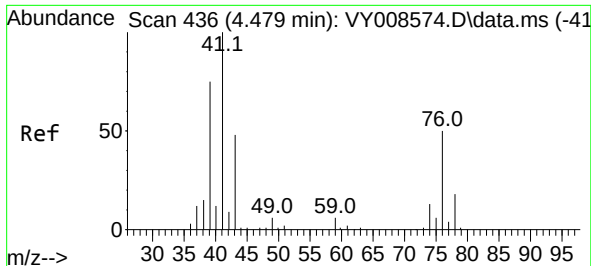
Tgt Ion: 56 Resp: 2953

Ion Ratio Lower Upper

56 100

55 49.2 57.6 86.4#

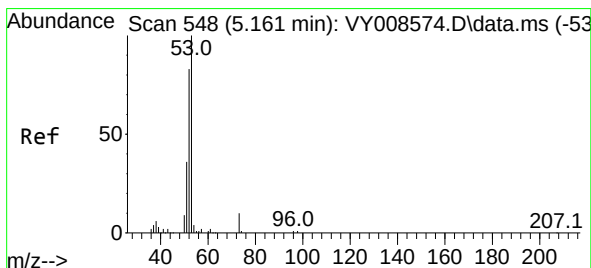
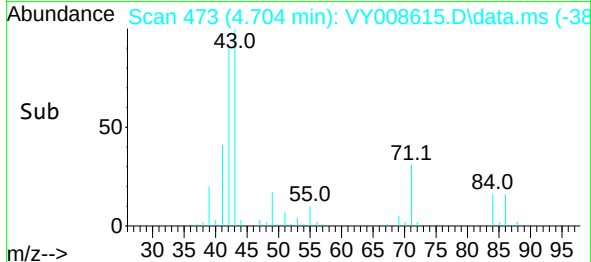
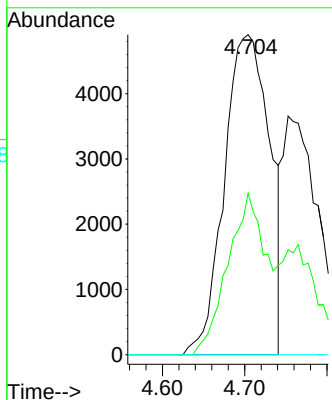
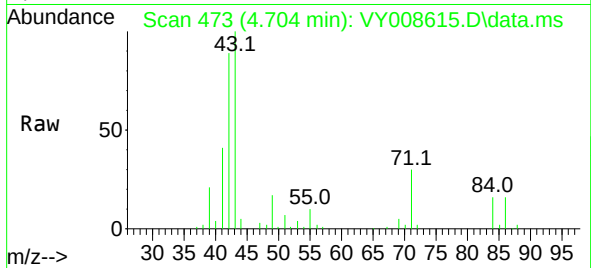




#14
 Allyl chloride
 Concen: 11.490 ug/l
 RT: 4.704 min Scan# 41
 Delta R.T. 0.226 min
 Lab File: VY008615.D
 Acq: 04 May 2022 16:23

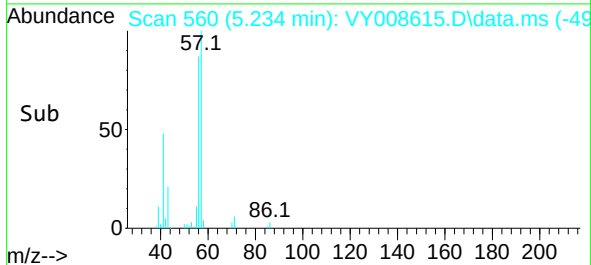
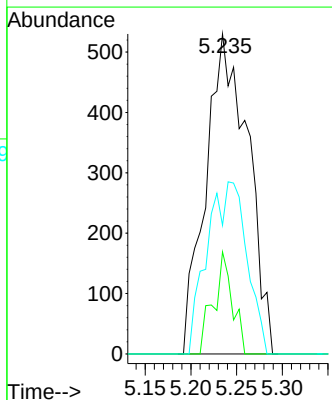
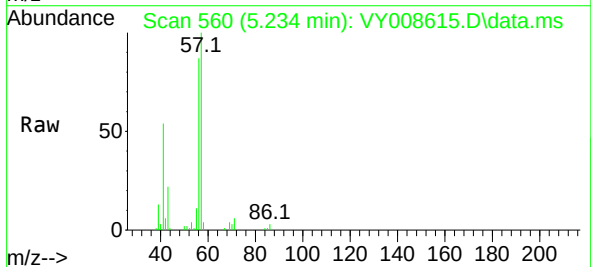
Instrument :
 MSVOA_Y
 ClientSampleId :
 SB04-14-15-FT

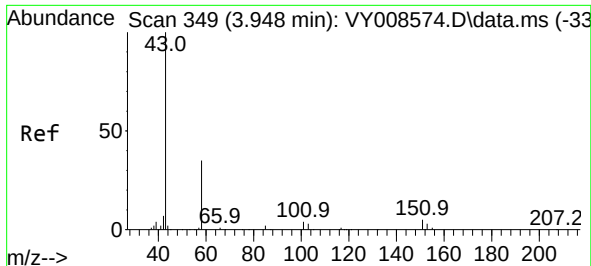
Tgt Ion: 41 Resp: 18813
 Ion Ratio Lower Upper
 41 100
 39 41.5 58.8 88.2#
 76 0.0 25.1 37.7#



#15
 Acrylonitrile
 Concen: 4.710 ug/l
 RT: 5.234 min Scan# 560
 Delta R.T. 0.073 min
 Lab File: VY008615.D
 Acq: 04 May 2022 16:23

Tgt Ion: 53 Resp: 1698
 Ion Ratio Lower Upper
 53 100
 52 14.3 67.0 100.4#
 51 50.8 29.8 44.6#

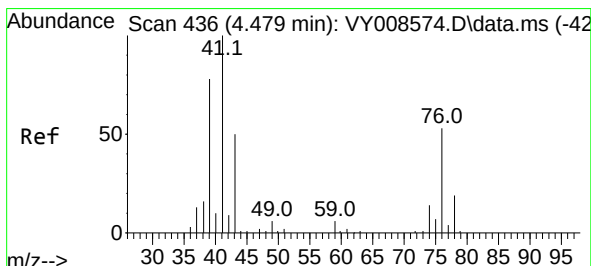
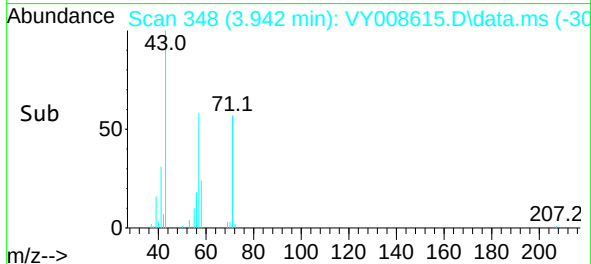
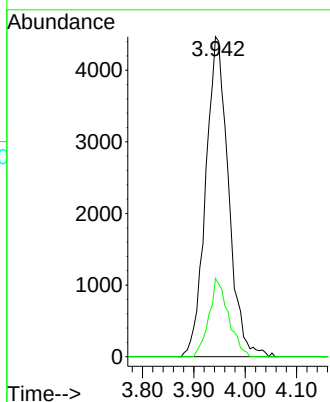
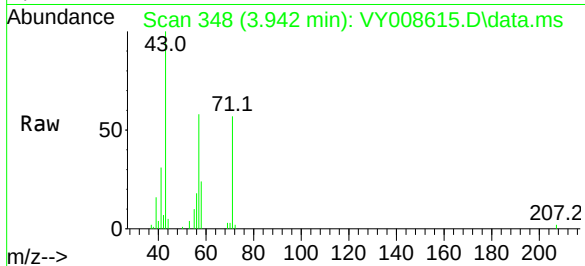




#16
Acetone
Concen: 50.401 ug/l
RT: 3.942 min Scan# 349
Delta R.T. -0.006 min
Lab File: VY008615.D
Acq: 04 May 2022 16:23

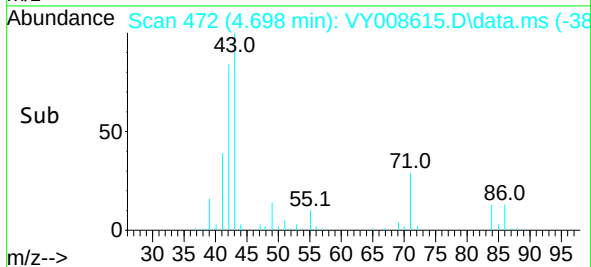
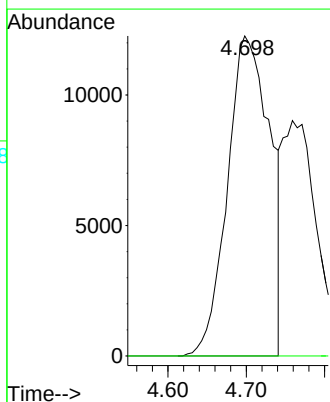
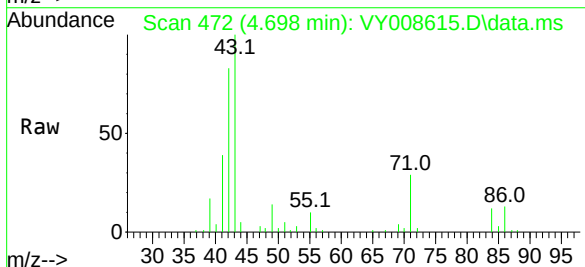
Instrument :
MSVOA_Y
ClientSampleId :
SB04-14-15-FT

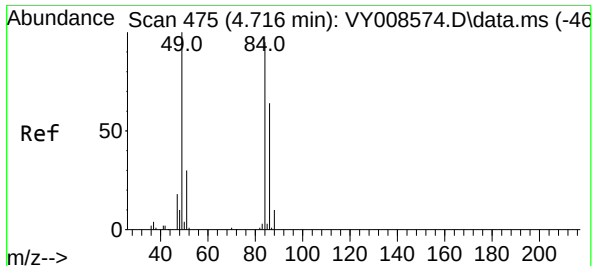
Tgt Ion: 43 Resp: 13755
Ion Ratio Lower Upper
43 100
58 24.5 22.0 33.0



#18
Methyl Acetate
Concen: 59.863 ug/l
RT: 4.698 min Scan# 472
Delta R.T. 0.219 min
Lab File: VY008615.D
Acq: 04 May 2022 16:23

Tgt Ion: 43 Resp: 46291
Ion Ratio Lower Upper
43 100
74 0.0 16.6 24.8#

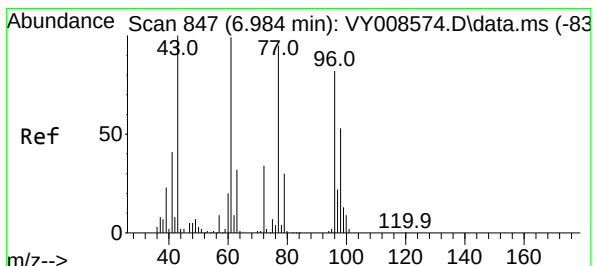
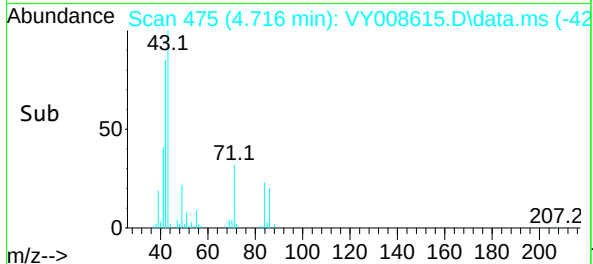
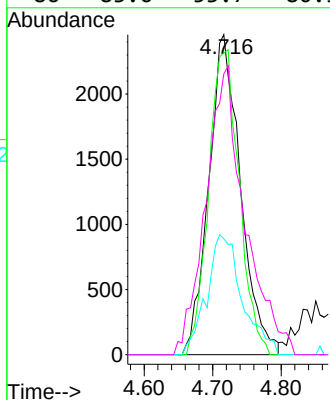
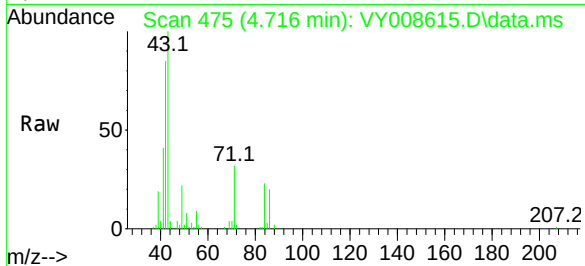




#20
Methylene Chloride
Concen: Below Cal
RT: 4.716 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY008615.D
Acq: 04 May 2022 16:23

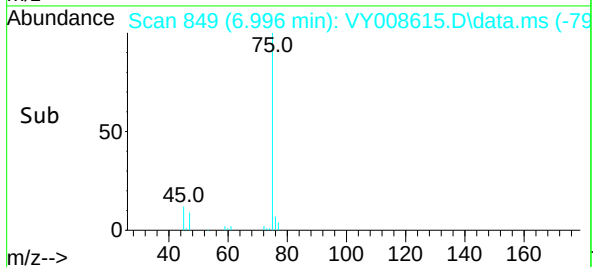
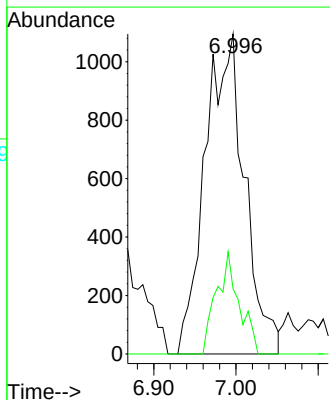
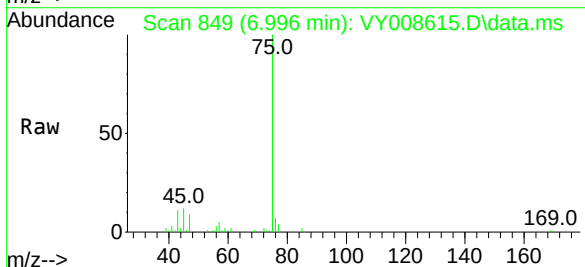
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SB04-14-15-FT

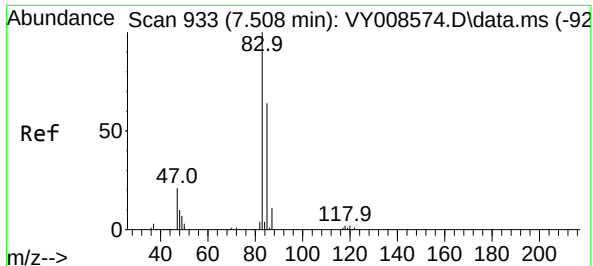
Tgt Ion: 84 Resp: 7935
Ion Ratio Lower Upper
84 100
49 94.3 114.4 171.6#
51 36.2 35.3 52.9
86 83.6 53.7 80.5#



#25
2-Butanone
Concen: 8.330 ug/l
RT: 6.996 min Scan# 849
Delta R.T. 0.012 min
Lab File: VY008615.D
Acq: 04 May 2022 16:23

Tgt Ion: 43 Resp: 3649
Ion Ratio Lower Upper
43 100
72 20.4 17.7 26.5

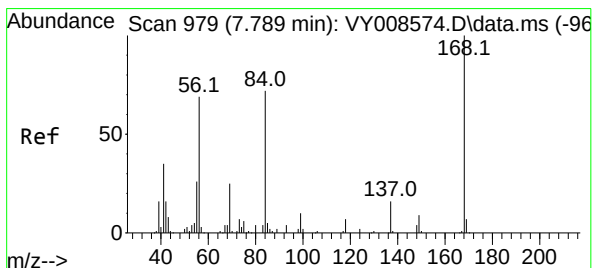
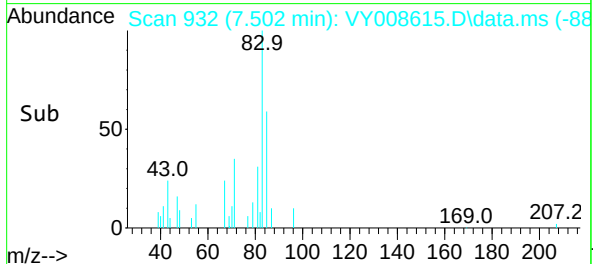
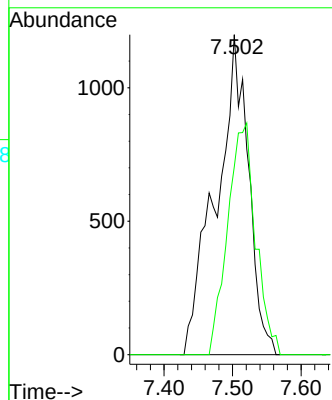
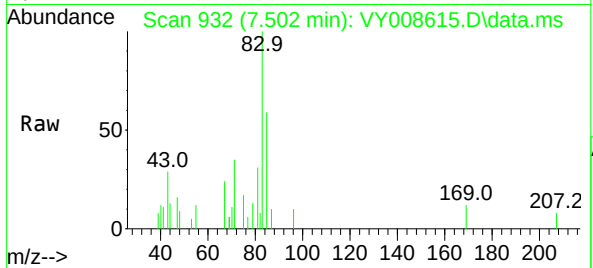




#30
Chloroform
Concen: 1.481 ug/l
RT: 7.502 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY008615.D
Acq: 04 May 2022 16:23

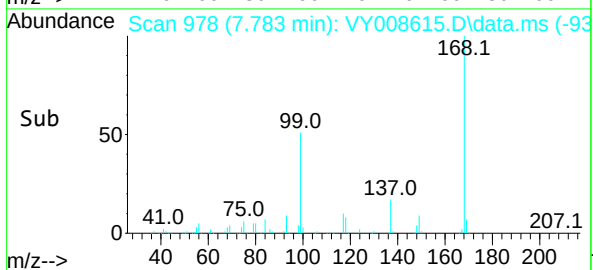
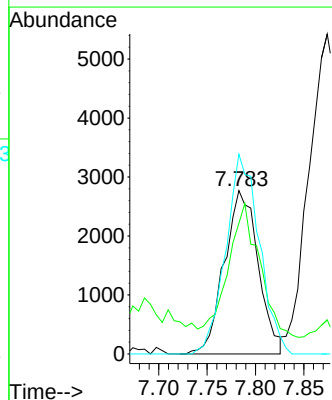
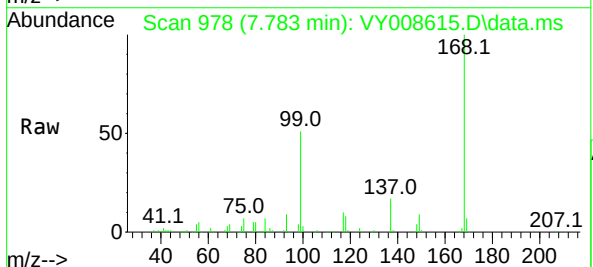
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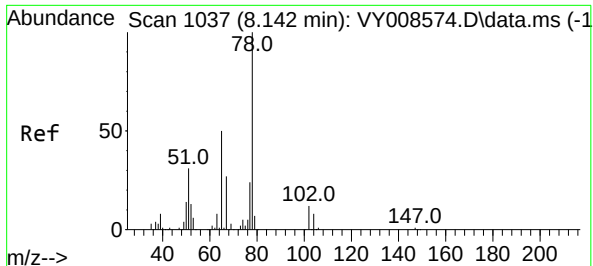
Tgt Ion: 83 Resp: 3953
Ion Ratio Lower Upper
83 100
85 58.7 51.8 77.6



#31
Cyclohexane
Concen: 3.091 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.006 min
Lab File: VY008615.D
Acq: 04 May 2022 16:23

Tgt Ion: 56 Resp: 6757
Ion Ratio Lower Upper
56 100
69 64.5 26.7 40.1#
84 122.2 67.2 100.8#





#33

1,2-Dichloroethane-d4

Concen: 51.777 ug/l

RT: 8.143 min Scan# 1103

Delta R.T. 0.000 min

Lab File: VY008615.D

Acq: 04 May 2022 16:23

Instrument :

MSVOA_Y

ClientSampleId :

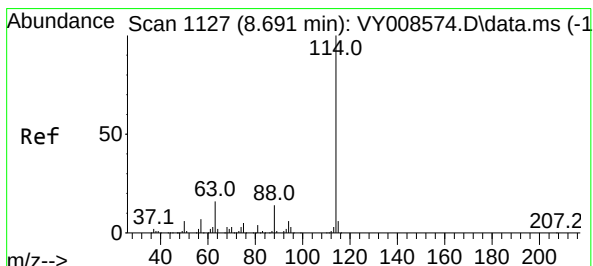
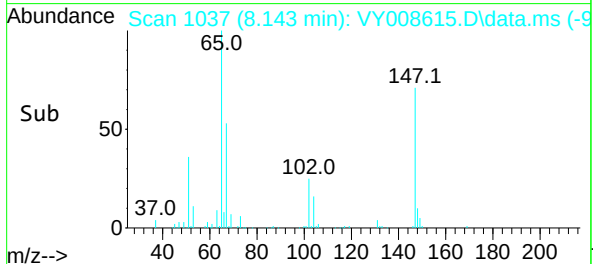
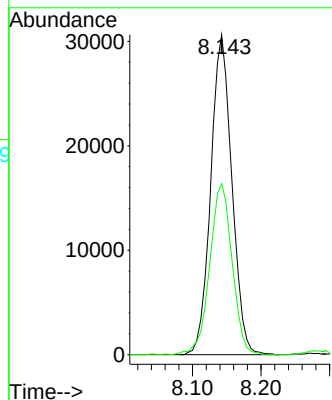
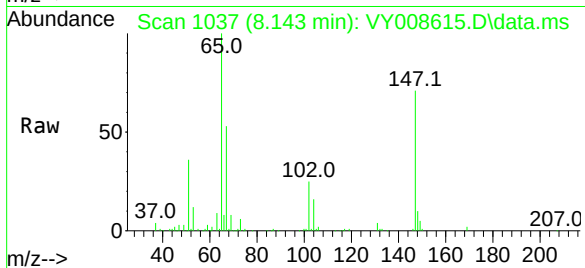
SB04-14-15-FT

Tgt Ion: 65 Resp: 65583

Ion Ratio Lower Upper

65 100

67 56.6 0.0 99.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY008615.D

Acq: 04 May 2022 16:23

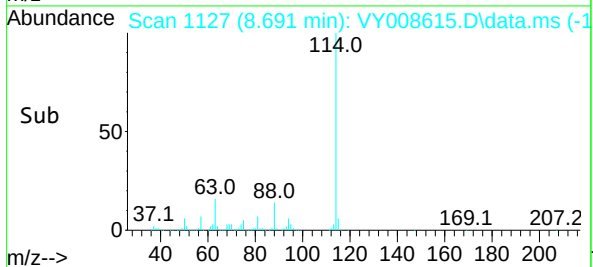
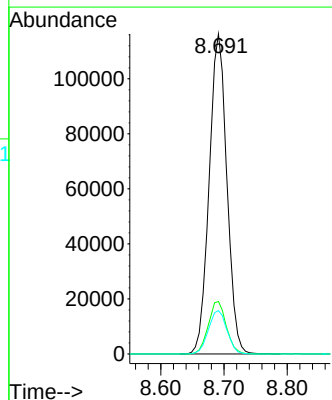
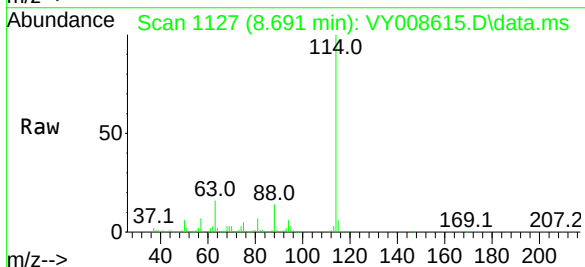
Tgt Ion: 114 Resp: 226116

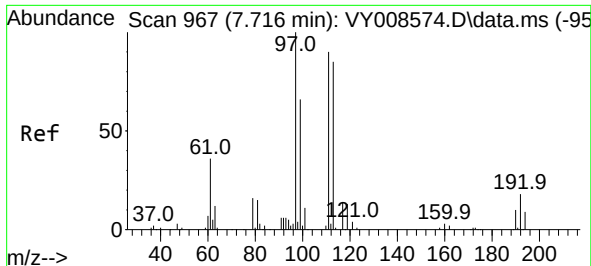
Ion Ratio Lower Upper

114 100

63 16.4 0.0 43.2

88 13.6 0.0 31.8

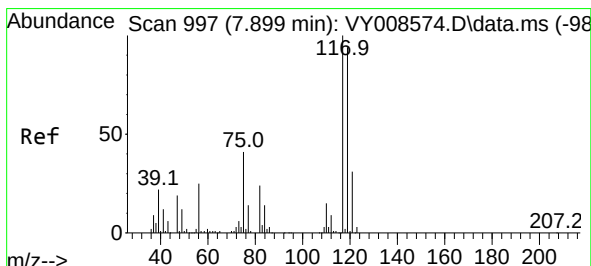
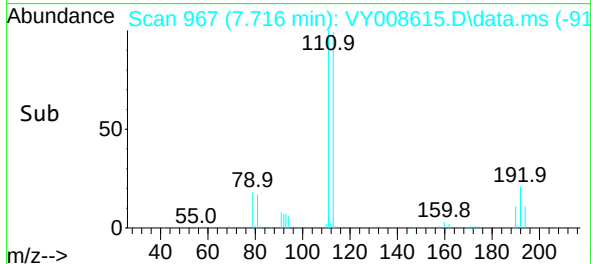
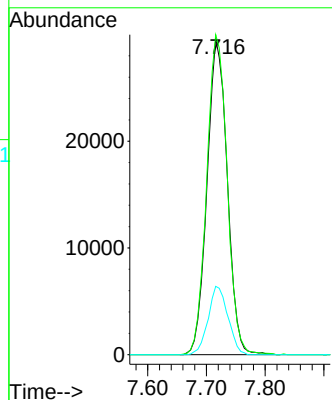
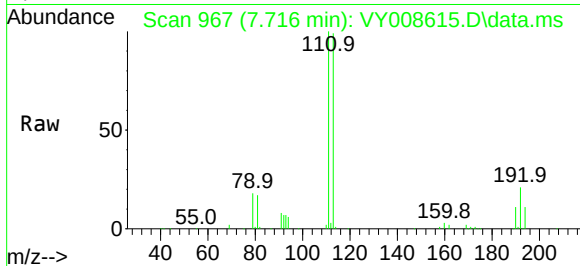




#35
Dibromofluoromethane
Concen: 47.154 ug/l
RT: 7.716 min Scan# 911
Delta R.T. 0.000 min
Lab File: VY008615.D
Acq: 04 May 2022 16:23

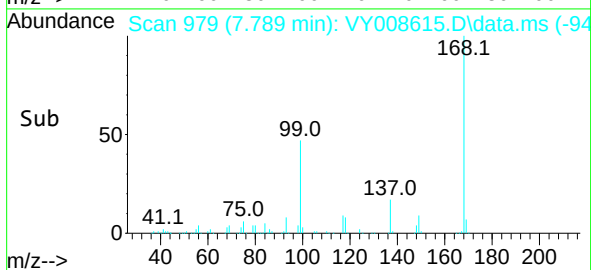
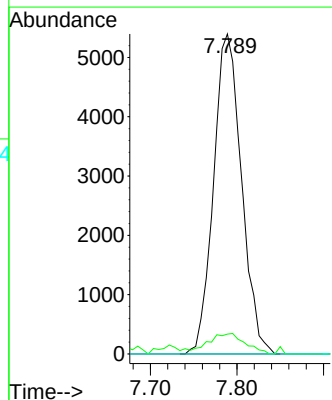
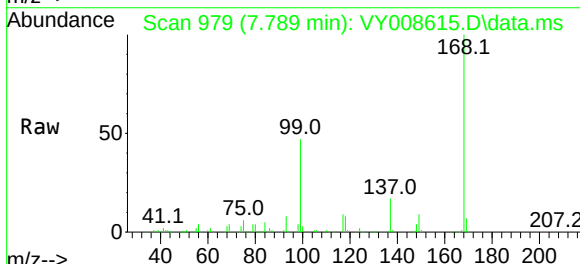
Instrument :
MSVOA_Y
ClientSampleId :
SB04-14-15-FT

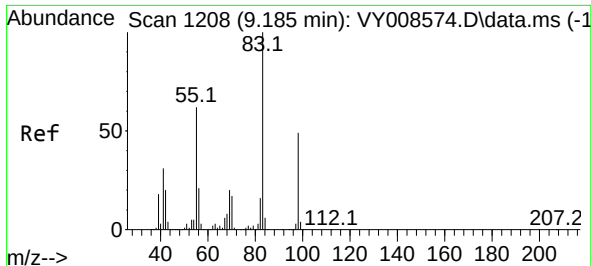
Tgt Ion:113 Resp: 70552
Ion Ratio Lower Upper
113 100
111 102.7 82.6 124.0
192 21.2 17.6 26.4



#38
Carbon Tetrachloride
Concen: 4.553 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.110 min
Lab File: VY008615.D
Acq: 04 May 2022 16:23

Tgt Ion:117 Resp: 12086
Ion Ratio Lower Upper
117 100
119 5.1 77.9 116.9#
121 0.0 24.8 37.2#





#39

Methylcyclohexane

Concen: 1.411 ug/l

RT: 9.179 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY008615.D

Acq: 04 May 2022 16:23

Instrument :

MSVOA_Y

ClientSampleId :

SB04-14-15-FT

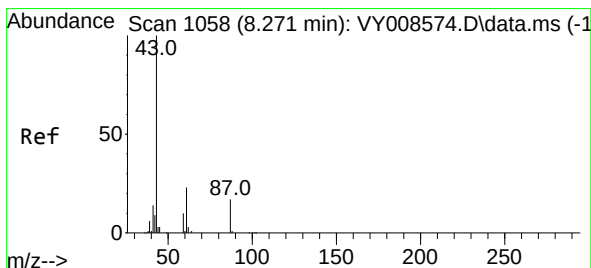
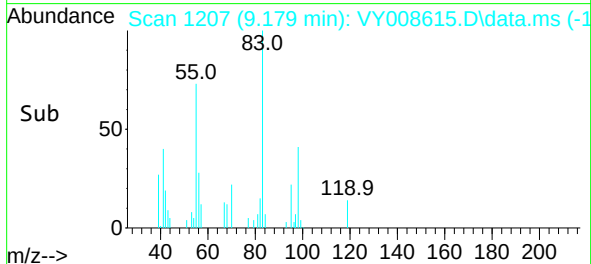
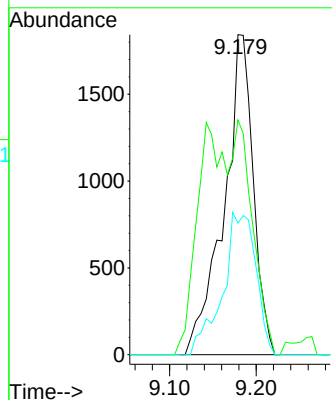
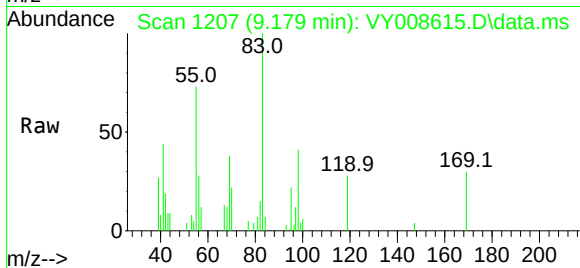
Tgt Ion: 83 Resp: 4331

Ion Ratio Lower Upper

83 100

55 73.4 66.5 99.7

98 41.1 37.9 56.9



#43

Isopropyl Acetate

Concen: 1.030 ug/l

RT: 8.271 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VY008615.D

Acq: 04 May 2022 16:23

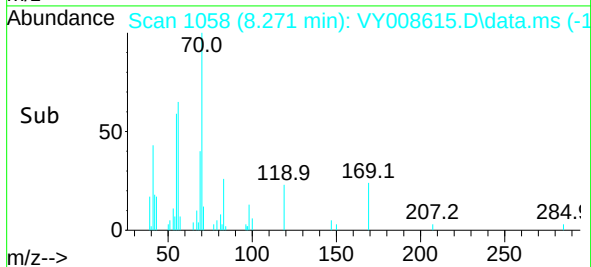
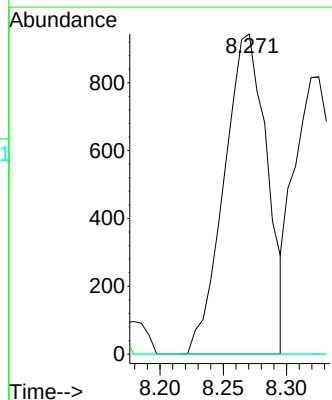
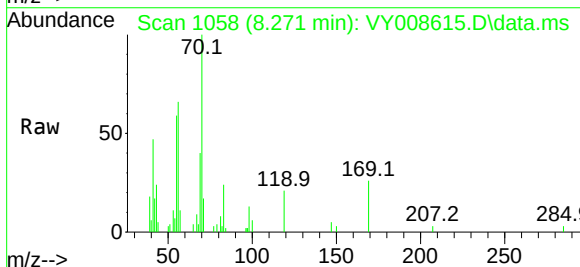
Tgt Ion: 43 Resp: 2237

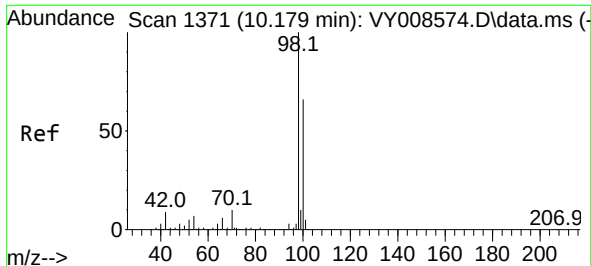
Ion Ratio Lower Upper

43 100

61 0.0 20.2 30.2#

87 0.0 8.9 13.3#

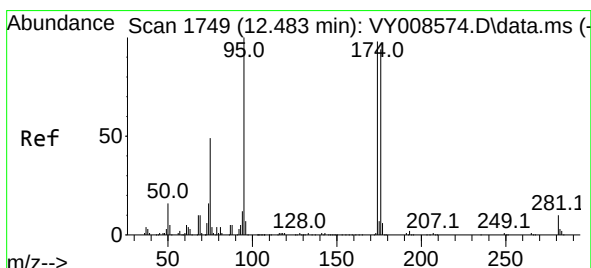
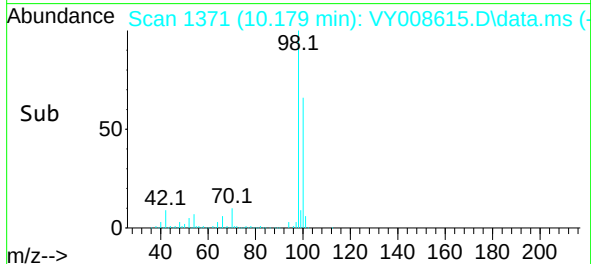
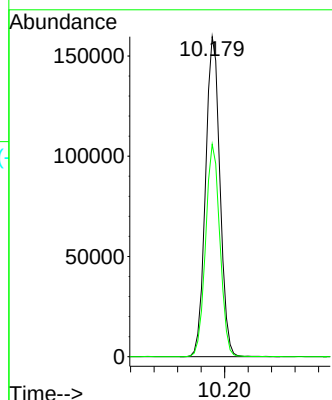
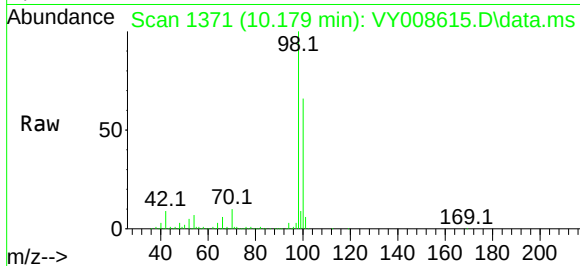




#50
Toluene-d8
Concen: 51.288 ug/l
RT: 10.179 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY008615.D
Acq: 04 May 2022 16:23

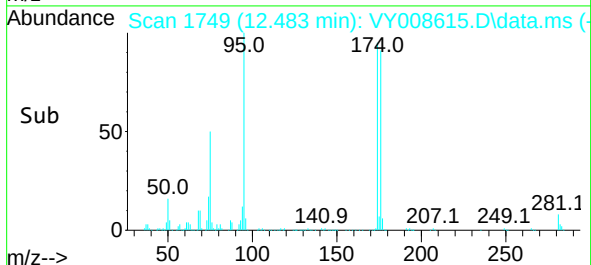
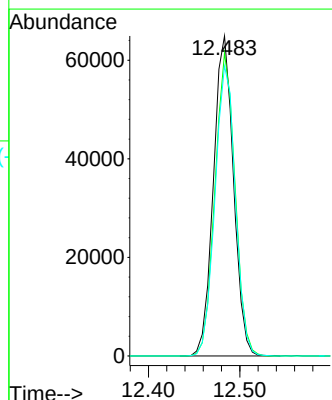
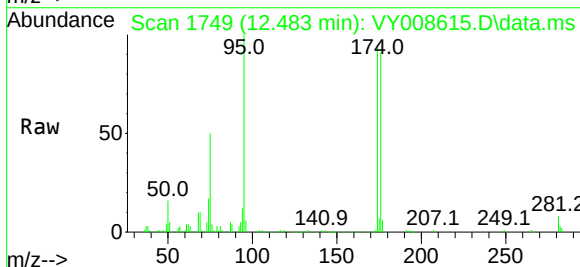
Instrument :
MSVOA_Y
ClientSampleId :
SB04-14-15-FT

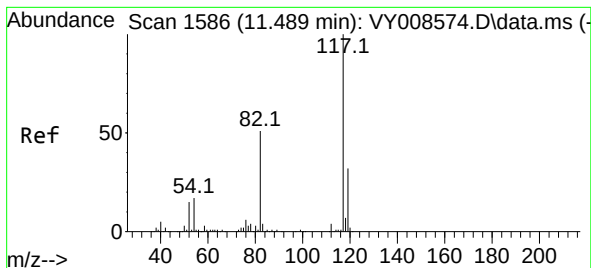
Tgt Ion: 98 Resp: 271869
Ion Ratio Lower Upper
98 100
100 66.0 50.2 75.2



#62
4-Bromofluorobenzene
Concen: 50.989 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY008615.D
Acq: 04 May 2022 16:23

Tgt Ion: 95 Resp: 99064
Ion Ratio Lower Upper
95 100
174 95.0 0.0 177.0
176 92.1 0.0 175.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY008615.D

Acq: 04 May 2022 16:23

Instrument :

MSVOA_Y

ClientSampleId :

SB04-14-15-FT

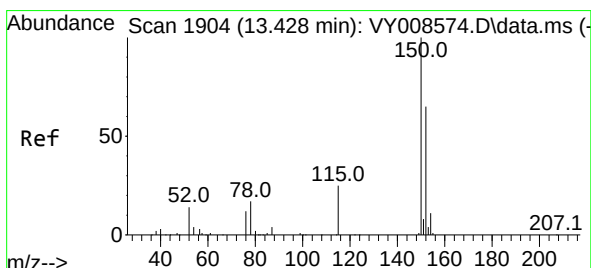
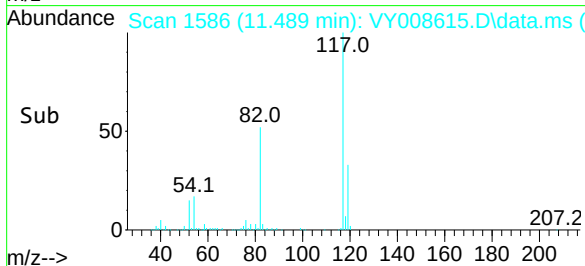
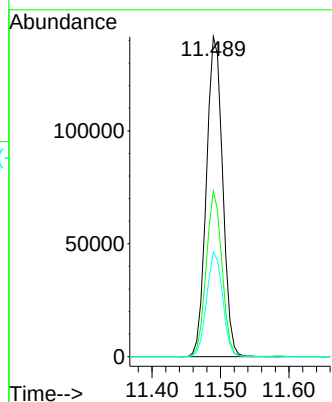
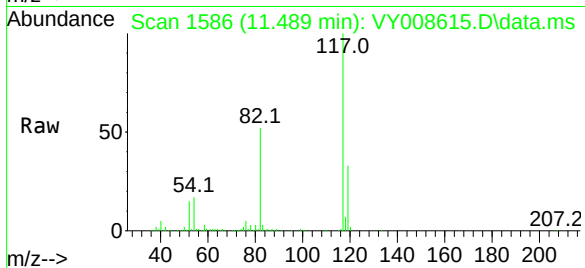
Tgt Ion:117 Resp: 234024

Ion Ratio Lower Upper

117 100

82 51.8 43.0 64.4

119 32.7 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VY008615.D

Acq: 04 May 2022 16:23

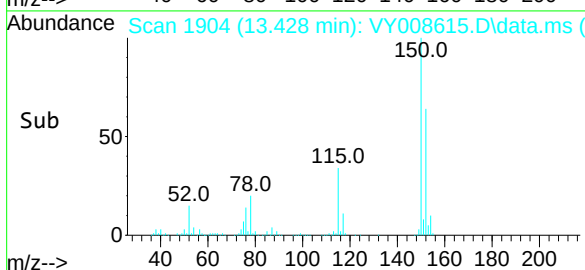
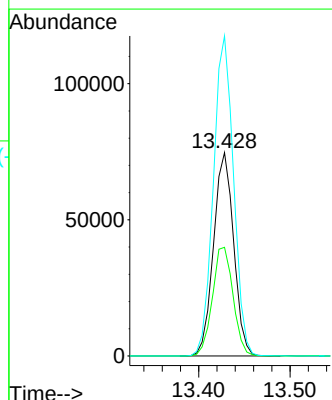
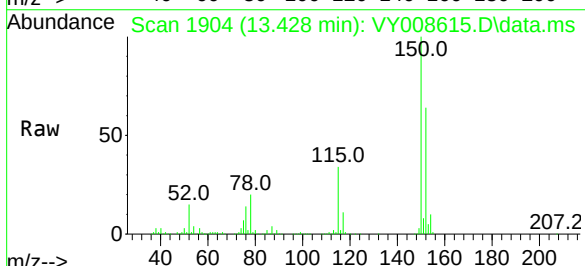
Tgt Ion:152 Resp: 114191

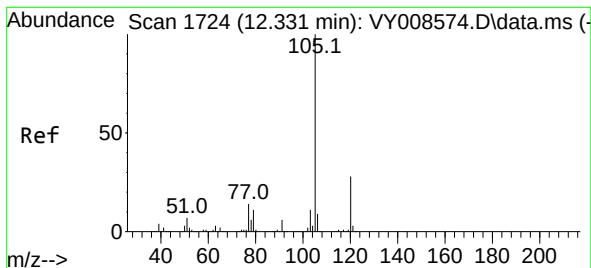
Ion Ratio Lower Upper

152 100

115 54.9 28.2 84.7

150 157.6 0.0 347.6





#73

Isopropylbenzene

Concen: 7.142 ug/l

RT: 12.331 min Scan# 1724

Delta R.T. 0.000 min

Lab File: VY008615.D

Acq: 04 May 2022 16:23

Instrument :

MSVOA_Y

ClientSampleId :

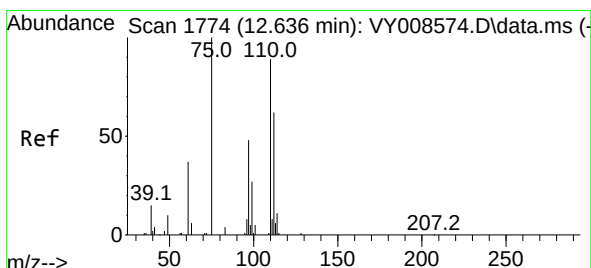
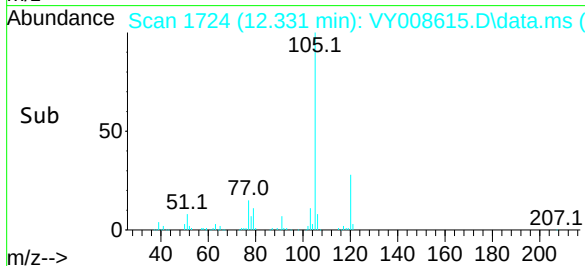
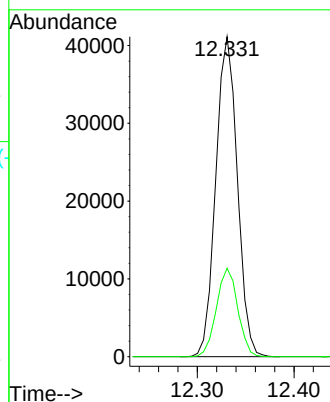
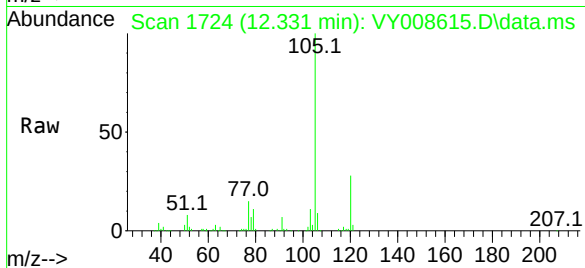
SB04-14-15-FT

Tgt Ion:105 Resp: 63623

Ion Ratio Lower Upper

105 100

120 27.4 13.4 40.2



#76

1,2,3-Trichloropropane

Concen: 39.918 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.152 min

Lab File: VY008615.D

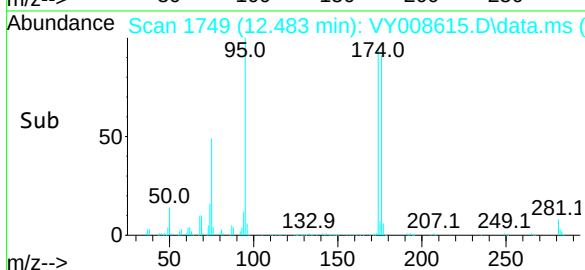
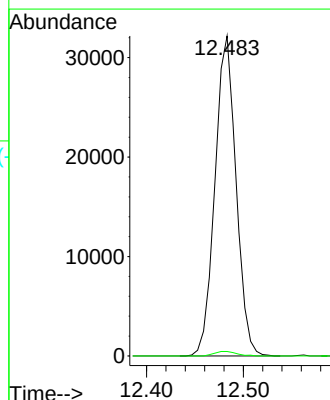
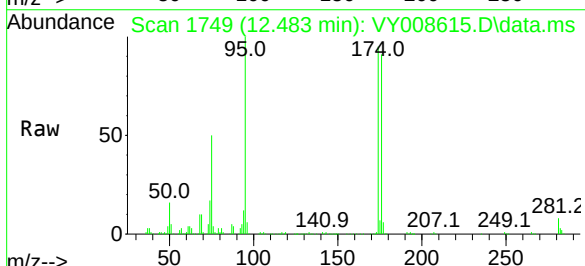
Acq: 04 May 2022 16:23

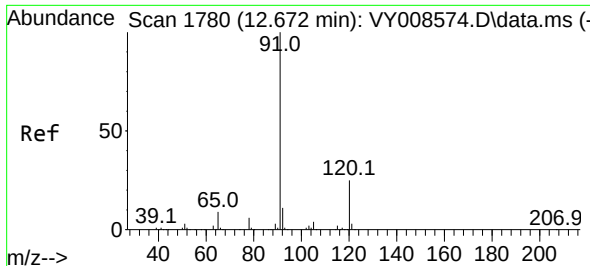
Tgt Ion: 75 Resp: 48659

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#

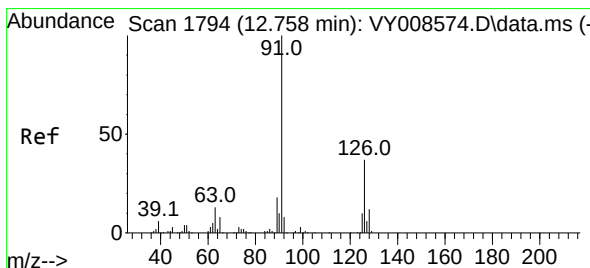
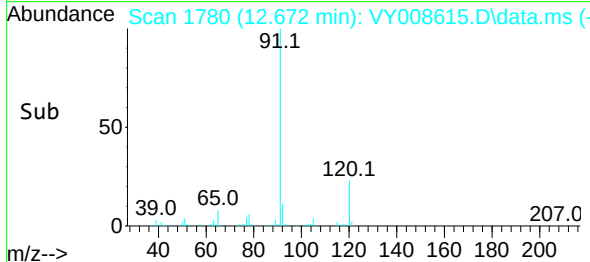
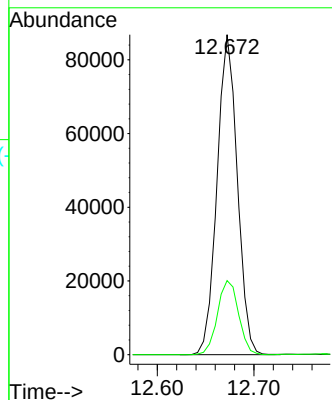
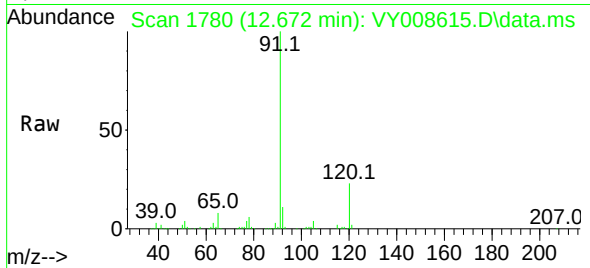




#78
n-propylbenzene
Concen: 12.171 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.000 min
Lab File: VY008615.D
Acq: 04 May 2022 16:23

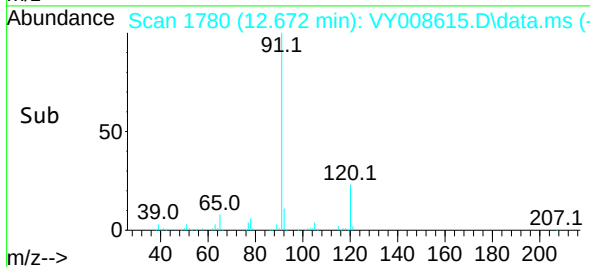
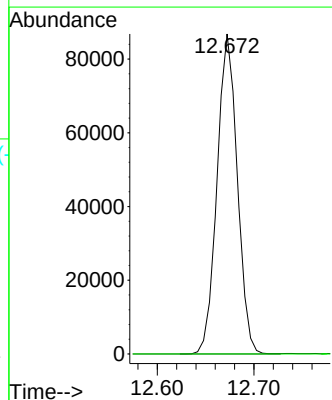
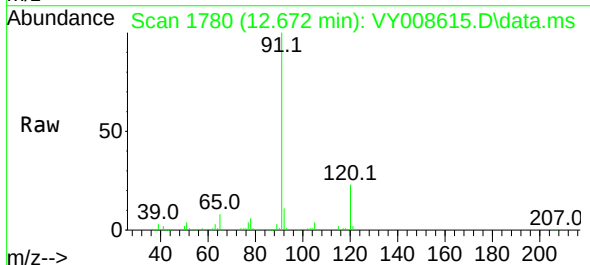
Instrument :
MSVOA_Y
ClientSampleId :
SB04-14-15-FT

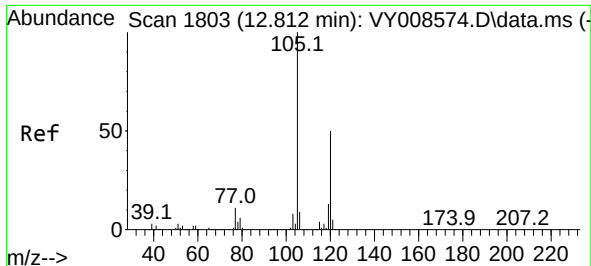
Tgt Ion: 91 Resp: 126166
Ion Ratio Lower Upper
91 100
120 24.1 11.3 33.9



#79
2-Chlorotoluene
Concen: 21.616 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. -0.085 min
Lab File: VY008615.D
Acq: 04 May 2022 16:23

Tgt Ion: 91 Resp: 126166
Ion Ratio Lower Upper
91 100
126 0.0 16.9 50.6#

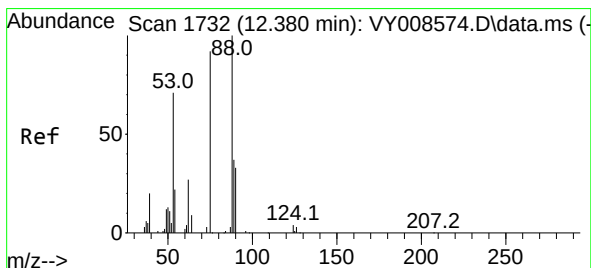
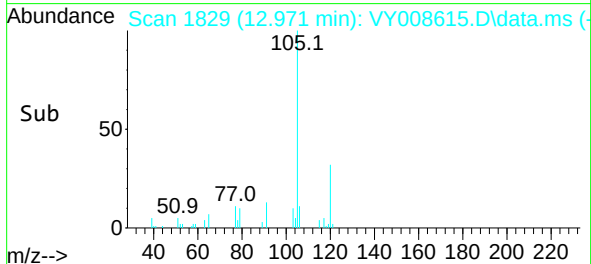
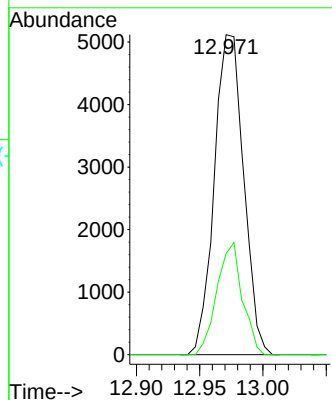
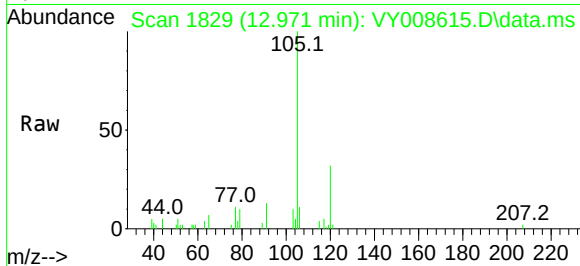




#80
 1,3,5-Trimethylbenzene
 Concen: 1.121 ug/l
 RT: 12.971 min Scan# 11
 Delta R.T. 0.159 min
 Lab File: VY008615.D
 Acq: 04 May 2022 16:23

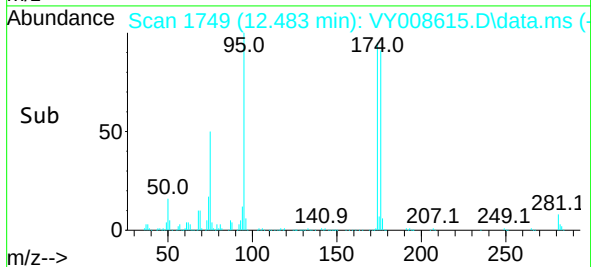
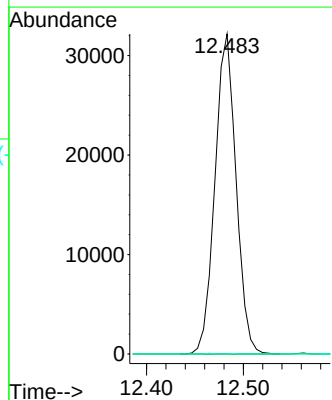
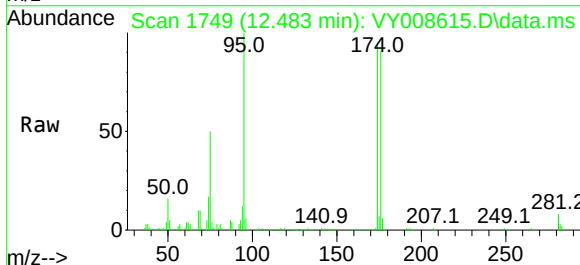
Instrument :
 MSVOA_Y
 ClientSampleId :
 SB04-14-15-FT

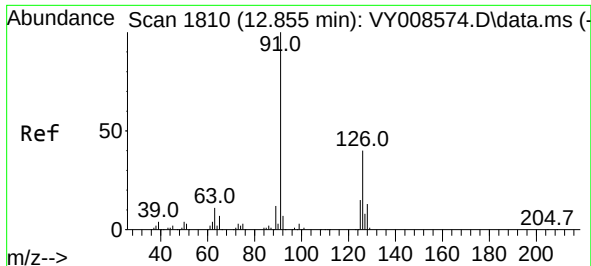
Tgt Ion:105 Resp: 8252
 Ion Ratio Lower Upper
 105 100
 120 30.4 24.4 73.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 80.931 ug/l
 RT: 12.483 min Scan# 1749
 Delta R.T. 0.104 min
 Lab File: VY008615.D
 Acq: 04 May 2022 16:23

Tgt Ion: 75 Resp: 48659
 Ion Ratio Lower Upper
 75 100
 53 0.0 85.3 127.9#
 89 0.0 37.0 55.4#

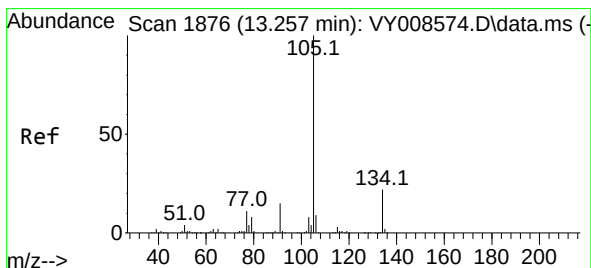
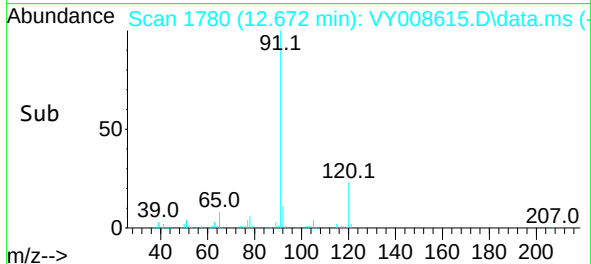
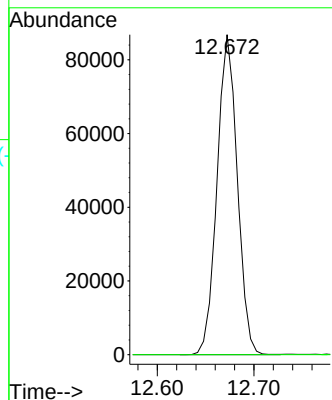
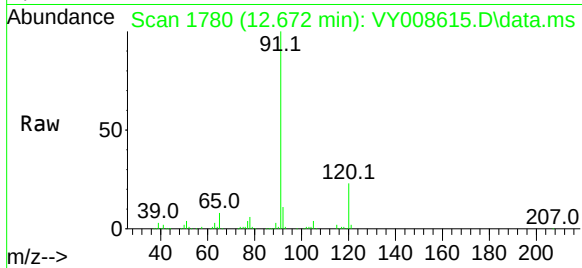




#82
4-Chlorotoluene
Concen: 20.984 ug/l
RT: 12.672 min Scan# 11
Delta R.T. -0.183 min
Lab File: VY008615.D
Acq: 04 May 2022 16:23

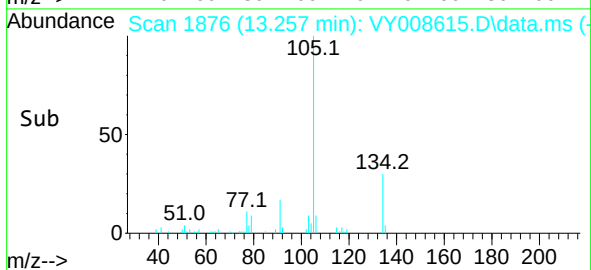
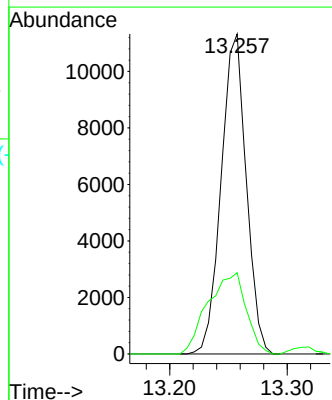
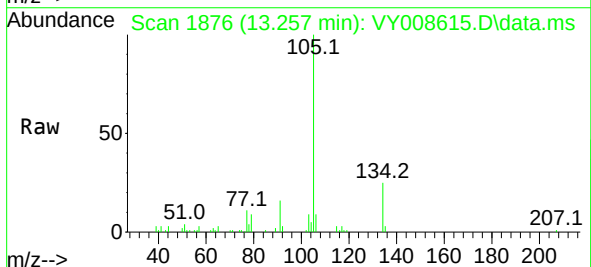
Instrument :
MSVOA_Y
ClientSampleId :
SB04-14-15-FT

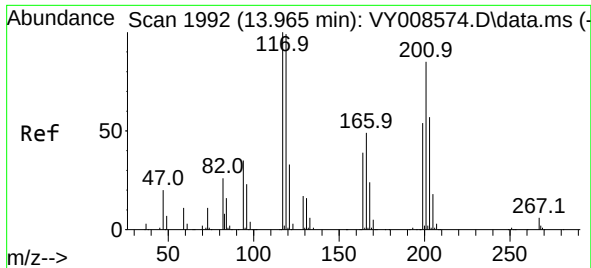
Tgt Ion: 91 Resp: 126166
Ion Ratio Lower Upper
91 100
126 0.0 17.0 51.0#



#85
sec-Butylbenzene
Concen: 1.730 ug/l
RT: 13.257 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VY008615.D
Acq: 04 May 2022 16:23

Tgt Ion: 105 Resp: 16812
Ion Ratio Lower Upper
105 100
134 38.6 10.2 30.4#





#90
 Hexachloroethane
 Concen: 3.738 ug/l
 RT: 13.971 min Scan# 1993
 Delta R.T. 0.006 min
 Lab File: VY008615.D
 Acq: 04 May 2022 16:23

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB04-14-15-FT

Tgt Ion:117 Resp: 5710
 Ion Ratio Lower Upper
 117 100
 201 0.0 43.0 128.8#

