

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091924\
 Data File : VY019631.D
 Acq On : 19 Sep 2024 14:01
 Operator : SY/MD
 Sample : P4085-03
 Misc : 4.21g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 20 01:28:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 09 16:00:30 2024
 Response via : Initial Calibration

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

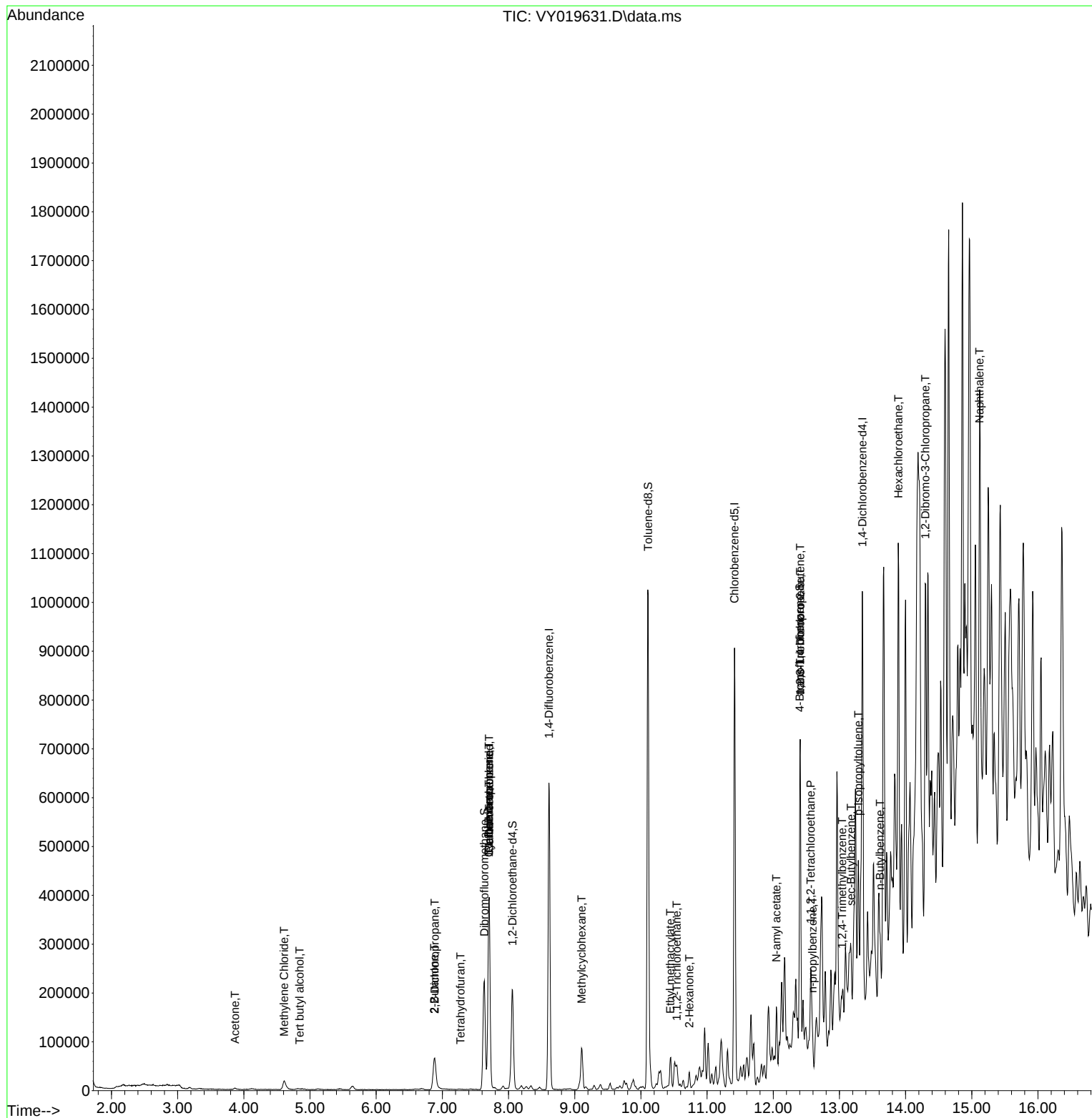
Internal Standards						
1) Pentafluorobenzene	7.707	168	284561	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.610	114	528437	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	456116	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	175744	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	153976	58.436	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 116.880%	
35) Dibromofluoromethane	7.634	113	162693	54.301	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 108.600%	
50) Toluene-d8	10.109	98	625199	56.416	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 112.840%	
62) 4-Bromofluorobenzene	12.402	95	201468	47.280	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 94.560%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.867	85	93	Below Cal	#	43
11) Tert butyl alcohol	4.842	59	3035	14.263	ug/l	# 97
13) Acrolein	3.641	56	85	Below Cal	#	1
16) Acetone	3.866	43	4539	7.231	ug/l	98
20) Methylene Chloride	4.610	84	12630	4.412	ug/l	# 93
25) 2-Butanone	6.878	43	4905	5.494	ug/l	# 55
26) 2,2-Dichloropropane	6.884	77	5239	1.113	ug/l	# 51
29) Tetrahydrofuran	7.274	42	746	1.374	ug/l	# 28
31) Cyclohexane	7.701	56	9661	2.049	ug/l	# 44
36) 1,1-Dichloropropene	7.701	75	24439	5.995	ug/l	# 49
38) Carbon Tetrachloride	7.707	117	30947	6.731	ug/l	# 17
39) Methylcyclohexane	9.103	83	35358	6.517	ug/l	93
55) 1,1,2-Trichloroethane	10.542	97	15961	6.885	ug/l	# 20
56) Ethyl methacrylate	10.445	69	7068	2.007	ug/l	# 1
59) 2-Hexanone	10.731	43	12755	7.880	ug/l	# 24
74) N-amyl acetate	12.048	43	27338	7.884	ug/l	# 47
75) 1,1,2,2-Tetrachloroethane	12.566	83	15139	6.690	ug/l	# 47
76) 1,2,3-Trichloropropane	12.408	75	104047	63.165	ug/l	# 100
78) n-propylbenzene	12.597	91	35410	2.343	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.408	75	104047	121.258	ug/l	# 16
84) 1,2,4-Trimethylbenzene	13.042	105	11569	1.128	ug/l	100
85) sec-Butylbenzene	13.176	105	42289	3.102	ug/l	# 55
86) p-Isopropyltoluene	13.285	119	15593	1.398	ug/l	# 79
89) n-Butylbenzene	13.615	91	69251	6.495	ug/l	# 64
90) Hexachloroethane	13.889	117	29520	12.721	ug/l	# 12
92) 1,2-Dibromo-3-Chloropr...	14.297	75	1609	4.266	ug/l	# 7
95) Naphthalene	15.114	128	18535	3.104	ug/l	# 1

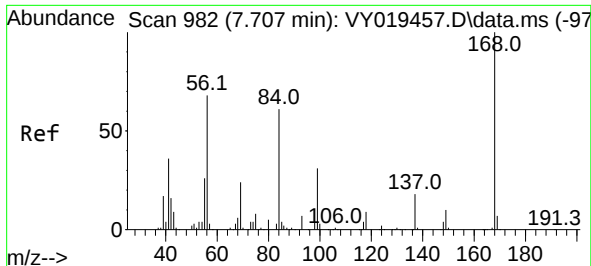
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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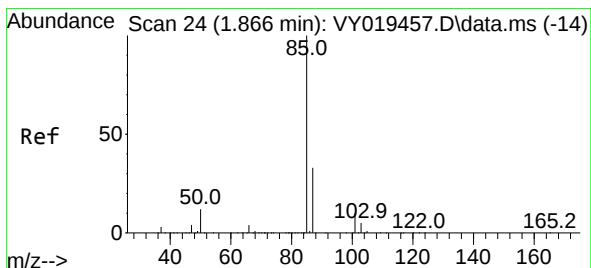
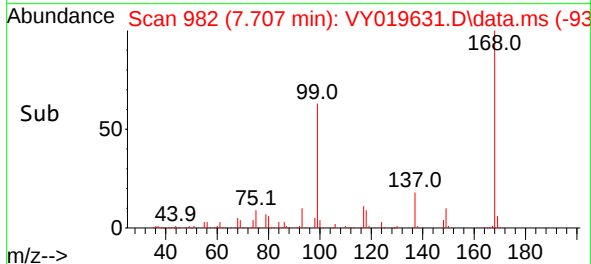
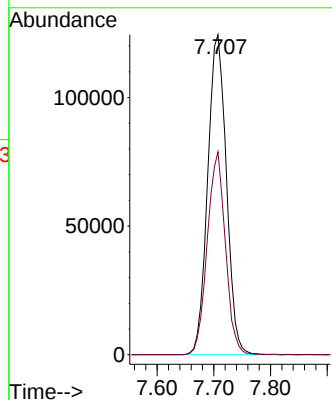
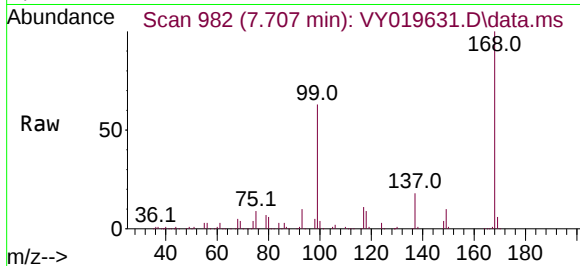




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY019631.D
Acq: 19 Sep 2024 14:01

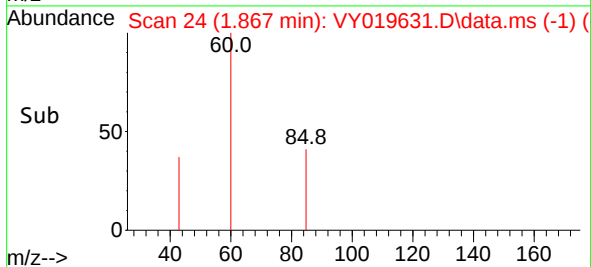
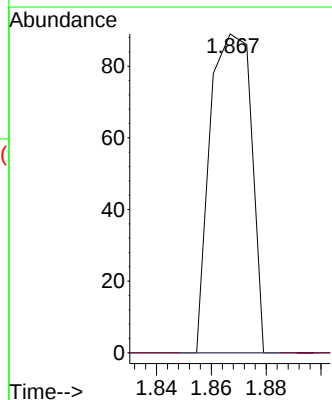
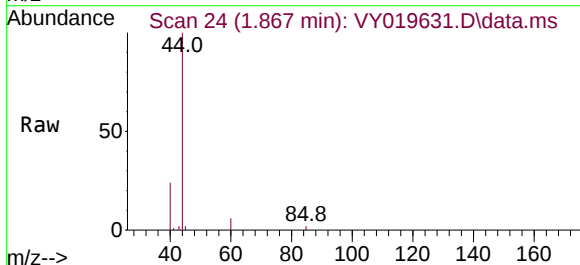
Instrument :
MSVOA_Y
ClientSampleId :

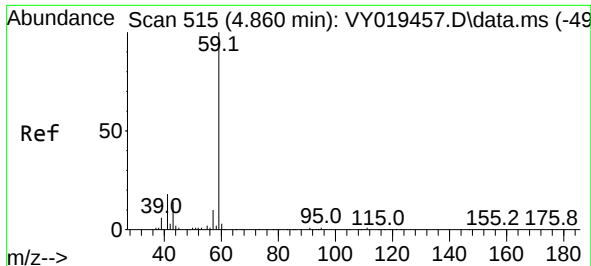
Tgt Ion:168 Resp: 284561
Ion Ratio Lower Upper
168 100
99 63.4 39.1 58.7#



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.867 min Scan# 24
Delta R.T. 0.001 min
Lab File: VY019631.D
Acq: 19 Sep 2024 14:01

Tgt Ion: 85 Resp: 93
Ion Ratio Lower Upper
85 100
87 0.0 16.0 48.0#





#11

Tert butyl alcohol

Concen: 14.263 ug/l

RT: 4.842 min Scan# 51

Delta R.T. -0.018 min

Lab File: VY019631.D

Acq: 19 Sep 2024 14:01

Instrument :

MSVOA_Y

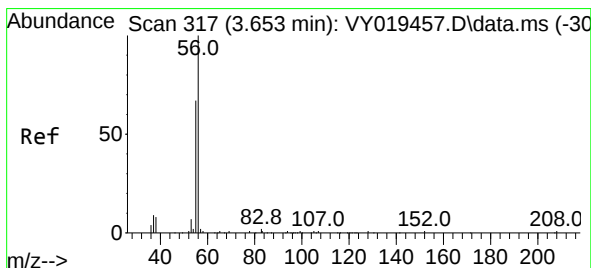
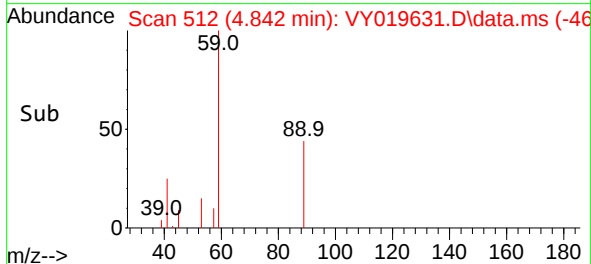
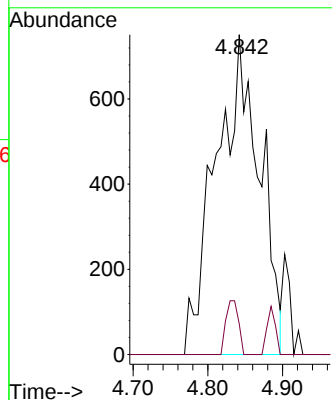
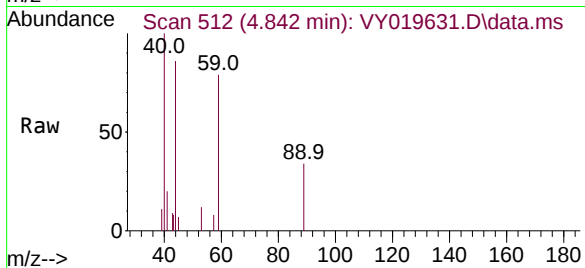
ClientSampleId :

Tgt Ion: 59 Resp: 3035

Ion Ratio Lower Upper

59 100

57 4.8 3.0 4.6#



#13

Acrolein

Concen: Below Cal

RT: 3.641 min Scan# 315

Delta R.T. -0.012 min

Lab File: VY019631.D

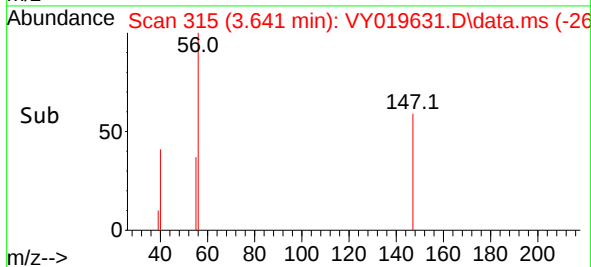
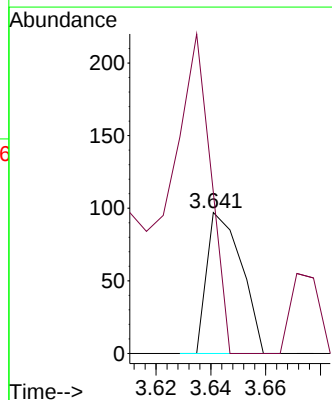
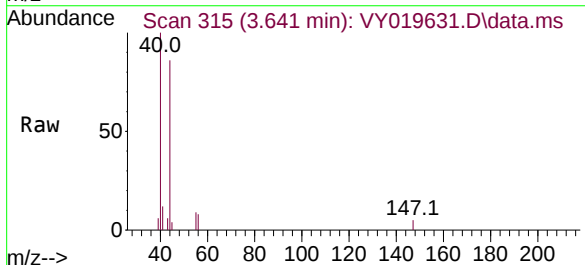
Acq: 19 Sep 2024 14:01

Tgt Ion: 56 Resp: 85

Ion Ratio Lower Upper

56 100

55 247.1 55.7 83.5#

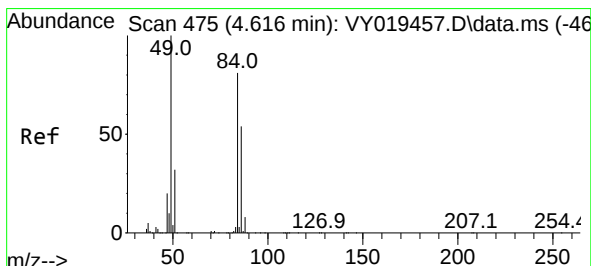
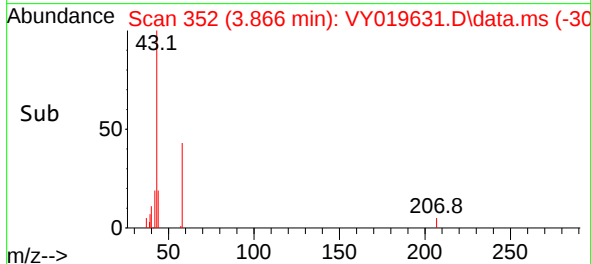
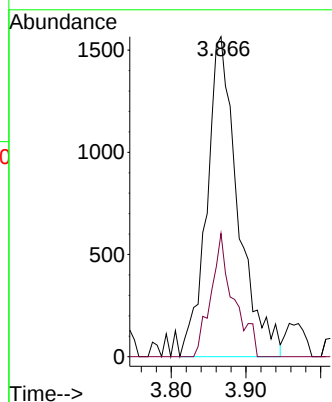
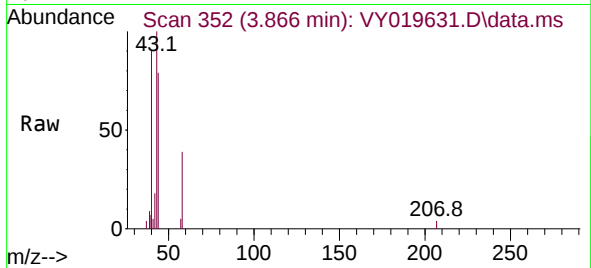




#16
Acetone
Concen: 7.231 ug/l
RT: 3.866 min Scan# 31
Delta R.T. -0.006 min
Lab File: VY019631.D
Acq: 19 Sep 2024 14:01

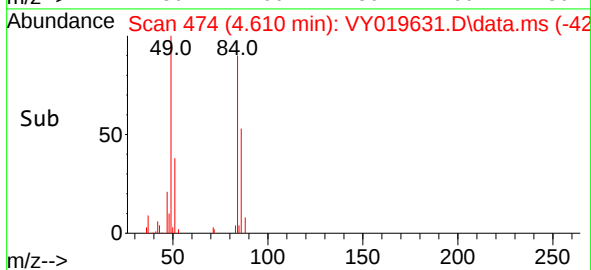
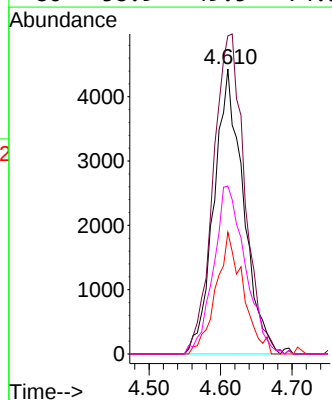
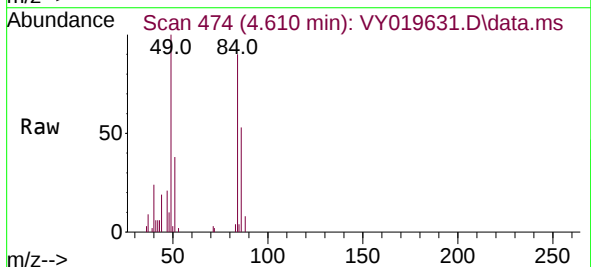
Instrument :
MSVOA_Y
ClientSampleId :

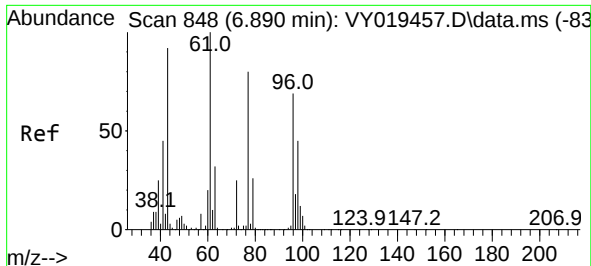
Tgt Ion: 43 Resp: 4539
Ion Ratio Lower Upper
43 100
58 38.5 31.7 47.5



#20
Methylene Chloride
Concen: 4.412 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY019631.D
Acq: 19 Sep 2024 14:01

Tgt Ion: 84 Resp: 12630
Ion Ratio Lower Upper
84 100
49 111.6 84.4 126.6
51 42.7 26.0 39.0#
86 58.9 49.5 74.3





#25

2-Butanone

Concen: 5.494 ug/l

RT: 6.878 min Scan# 846

Delta R.T. -0.012 min

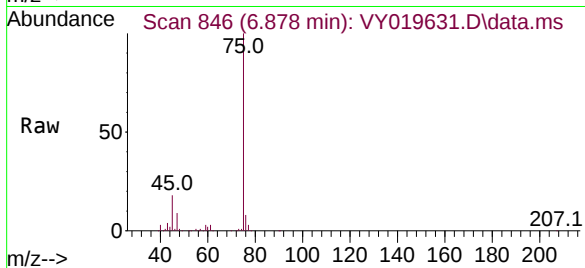
Lab File: VY019631.D

Acq: 19 Sep 2024 14:01

Instrument :

MSVOA_Y

ClientSampleId :

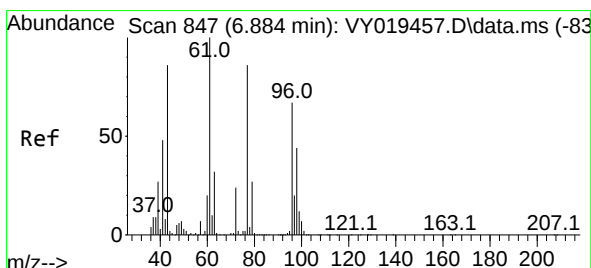
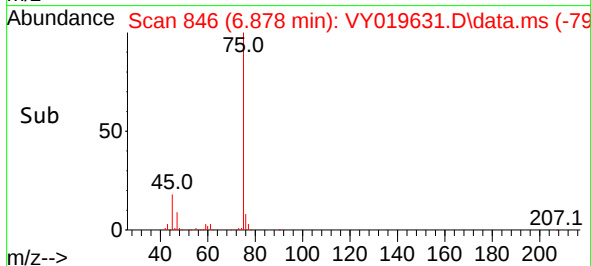
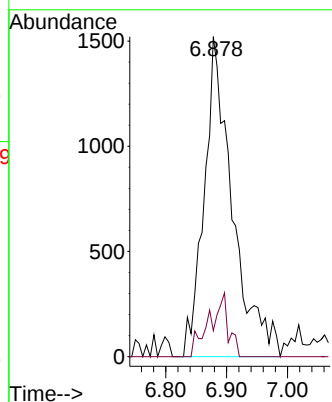


Tgt Ion: 43 Resp: 4905

Ion Ratio Lower Upper

43 100

72 8.2 27.3 40.9#



#26

2,2-Dichloropropane

Concen: 1.113 ug/l

RT: 6.884 min Scan# 847

Delta R.T. 0.000 min

Lab File: VY019631.D

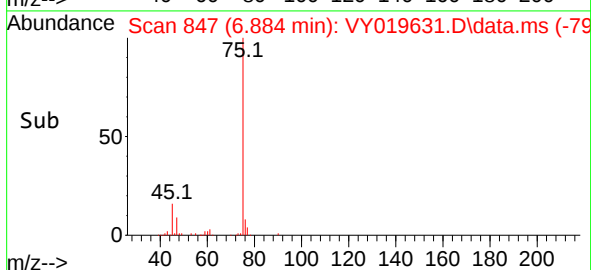
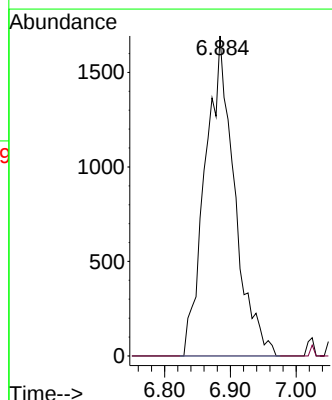
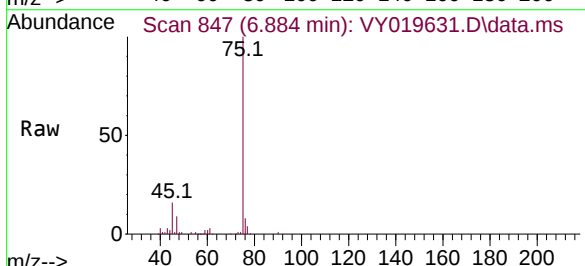
Acq: 19 Sep 2024 14:01

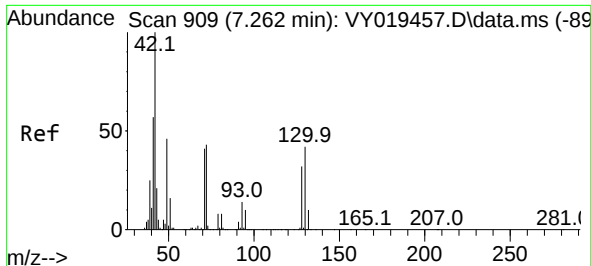
Tgt Ion: 77 Resp: 5239

Ion Ratio Lower Upper

77 100

97 0.0 12.0 36.1#





#29

Tetrahydrofuran

Concen: 1.374 ug/l

RT: 7.274 min Scan# 911

Delta R.T. 0.013 min

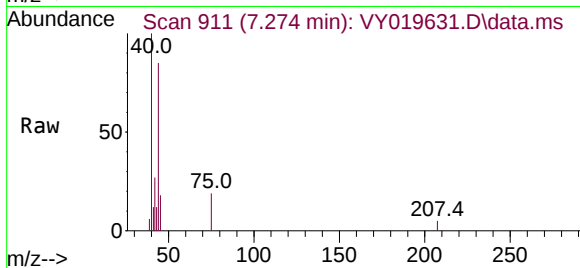
Lab File: VY019631.D

Acq: 19 Sep 2024 14:01

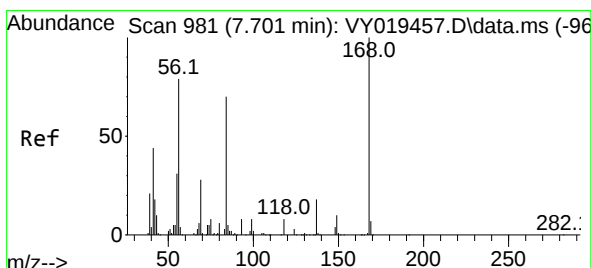
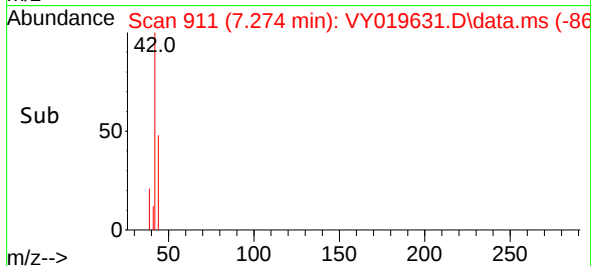
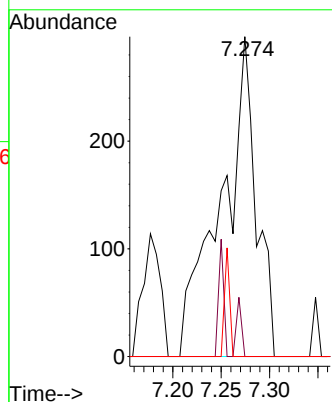
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	42	Resp:	746
Ion Ratio	100	Lower	Upper
72	2.7	43.0	64.4#
71	0.0	40.8	61.2#



#31

Cyclohexane

Concen: 2.049 ug/l

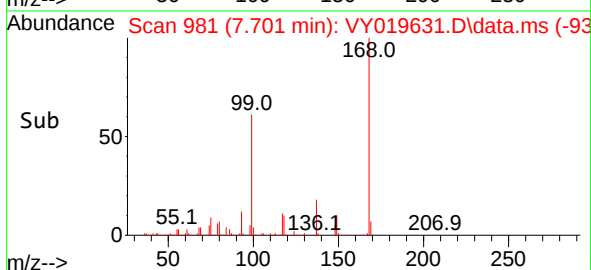
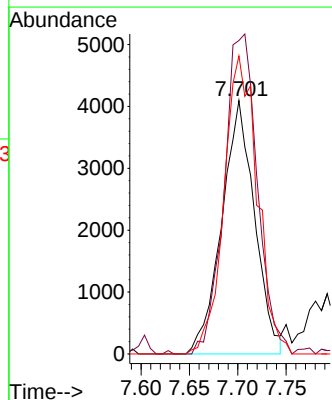
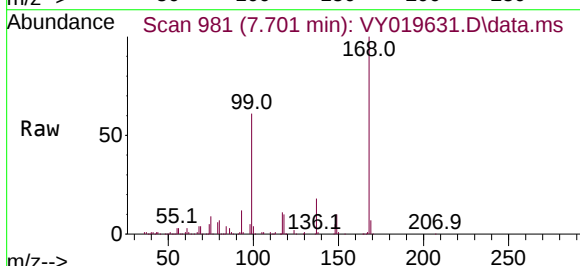
RT: 7.701 min Scan# 981

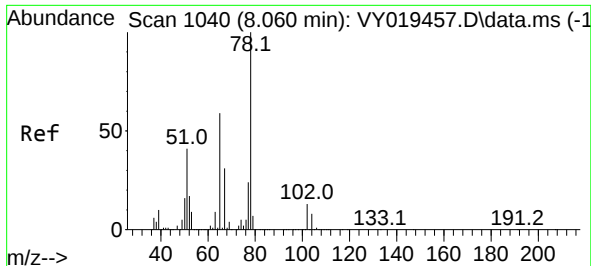
Delta R.T. 0.000 min

Lab File: VY019631.D

Acq: 19 Sep 2024 14:01

Tgt Ion:	56	Resp:	9661
Ion Ratio	100	Lower	Upper
69	123.7	28.7	43.1#
84	117.6	77.7	116.5#

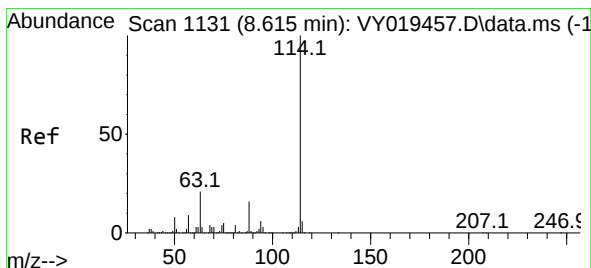
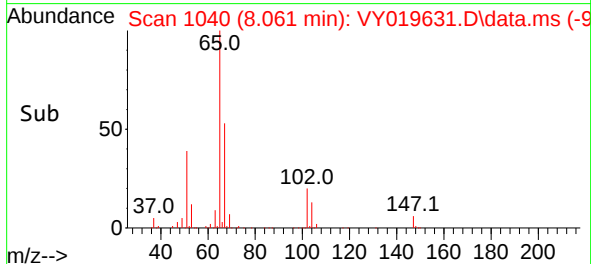
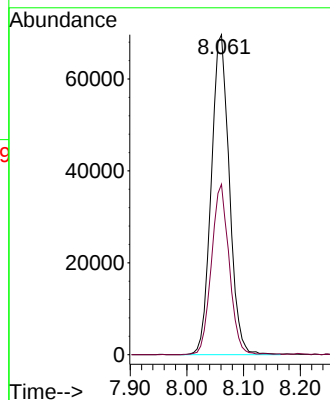
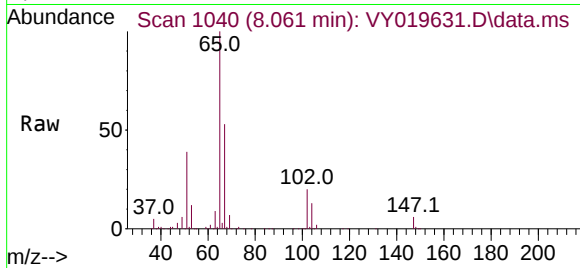




#33
 1,2-Dichloroethane-d4
 Concen: 58.436 ug/l
 RT: 8.061 min Scan# 1130
 Delta R.T. 0.000 min
 Lab File: VY019631.D
 Acq: 19 Sep 2024 14:01

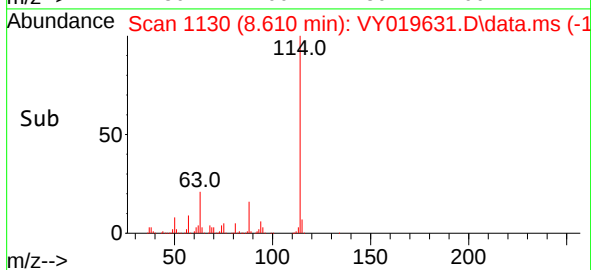
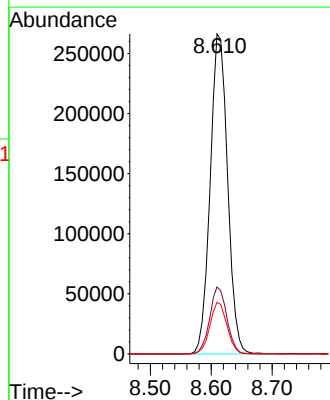
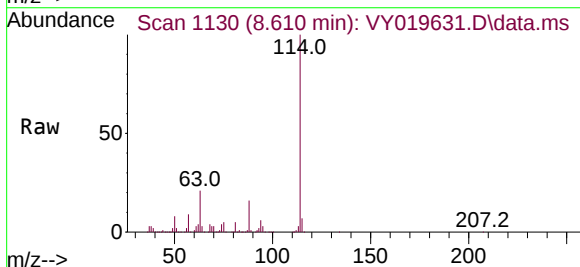
Instrument :
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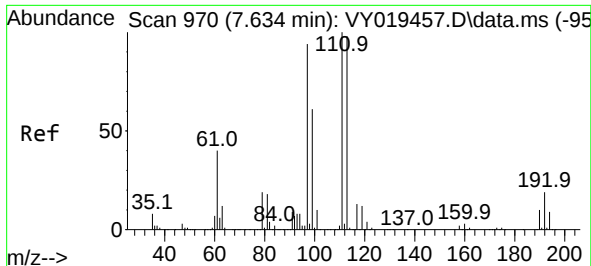
Tgt Ion: 65 Resp: 153976
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 109.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.610 min Scan# 1130
 Delta R.T. -0.006 min
 Lab File: VY019631.D
 Acq: 19 Sep 2024 14:01

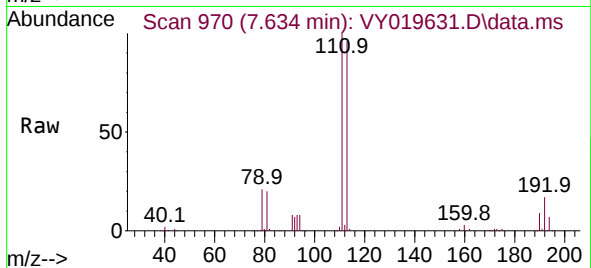
Tgt Ion: 114 Resp: 528437
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 35.0
 88 16.1 0.0 27.2



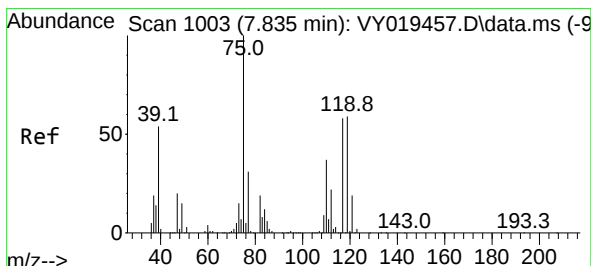
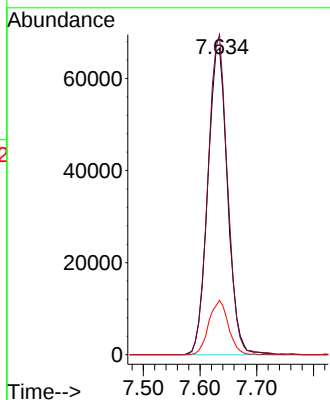
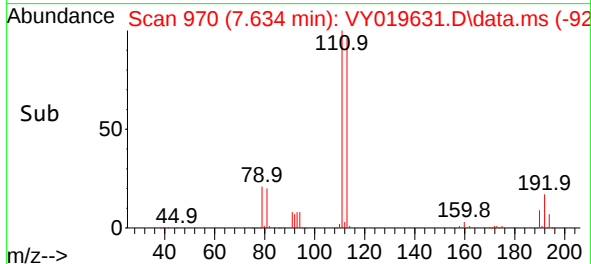


#35
Dibromofluoromethane
Concen: 54.301 ug/l
RT: 7.634 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY019631.D
Acq: 19 Sep 2024 14:01

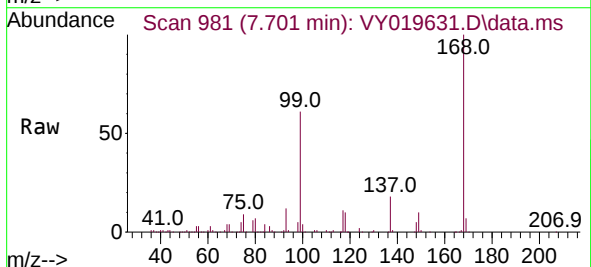
Instrument :
MSVOA_Y
ClientSampleId :



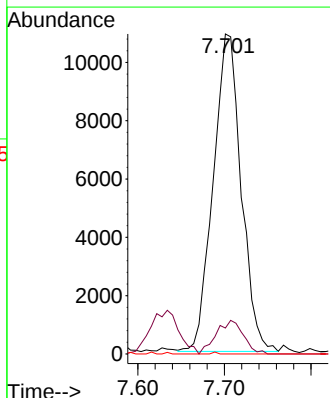
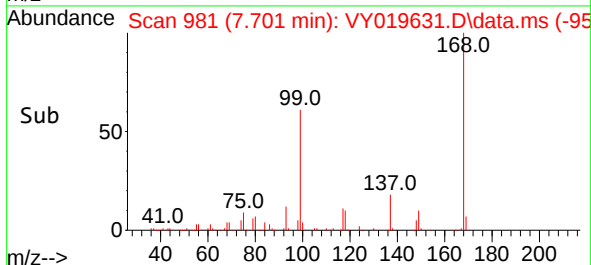
Tgt Ion:113 Resp: 162693
Ion Ratio Lower Upper
113 100
111 102.4 82.2 123.4
192 17.3 15.9 23.9

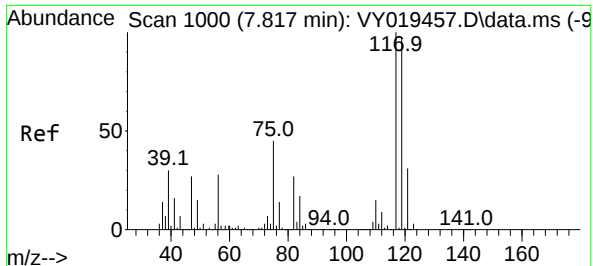


#36
1,1-Dichloropropene
Concen: 5.995 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.134 min
Lab File: VY019631.D
Acq: 19 Sep 2024 14:01



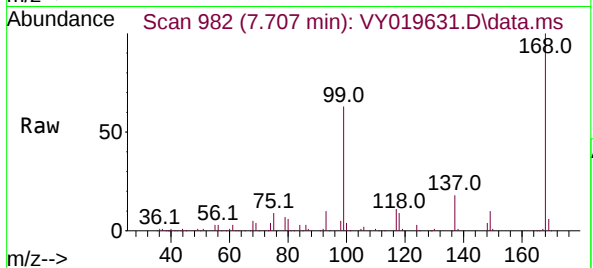
Tgt Ion: 75 Resp: 24439
Ion Ratio Lower Upper
75 100
110 10.3 19.0 57.0#
77 0.1 25.3 37.9#



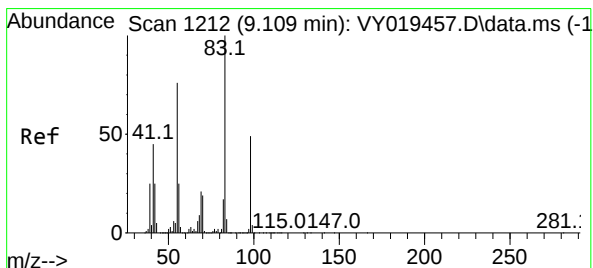
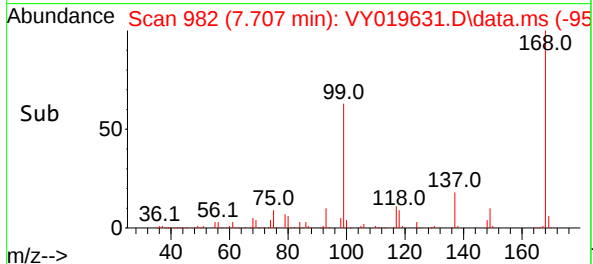
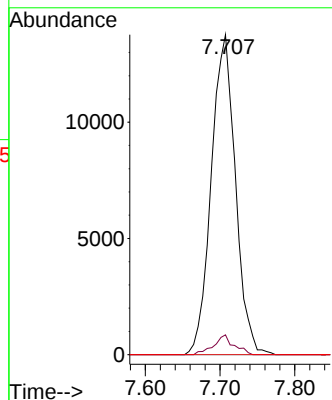


#38
Carbon Tetrachloride
Concen: 6.731 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.109 min
Lab File: VY019631.D
Acq: 19 Sep 2024 14:01

Instrument :
MSVOA_Y
ClientSampleId :

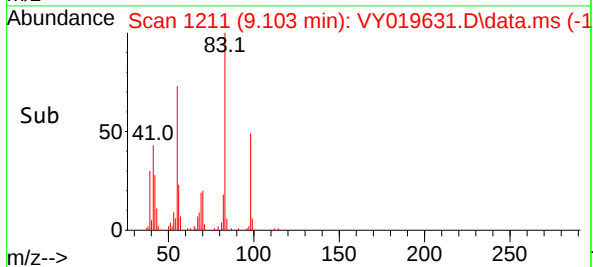
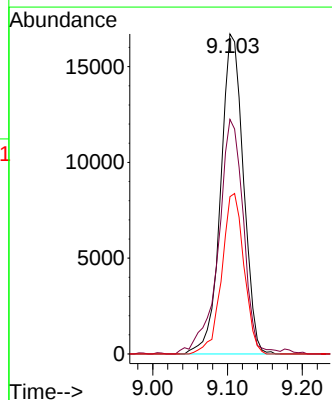
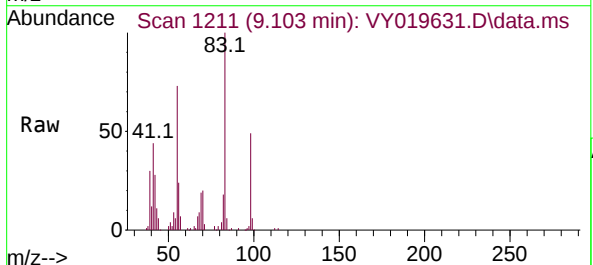


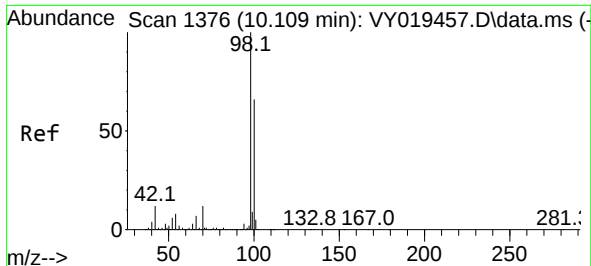
Tgt Ion:117 Resp: 30947
Ion Ratio Lower Upper
117 100
119 6.2 75.8 113.6#
121 0.0 24.0 36.0#



#39
Methylcyclohexane
Concen: 6.517 ug/l
RT: 9.103 min Scan# 1211
Delta R.T. -0.006 min
Lab File: VY019631.D
Acq: 19 Sep 2024 14:01

Tgt Ion: 83 Resp: 35358
Ion Ratio Lower Upper
83 100
55 72.5 51.5 77.3
98 49.1 40.5 60.7

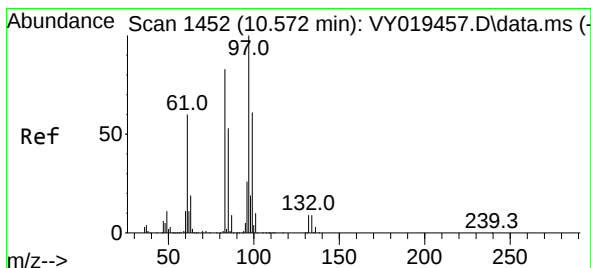
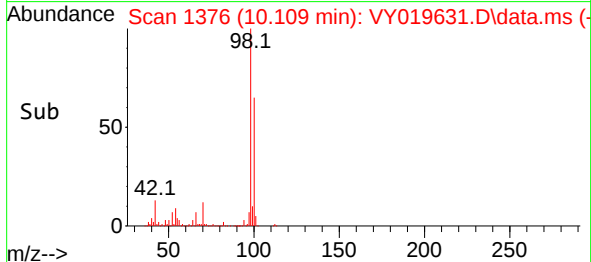
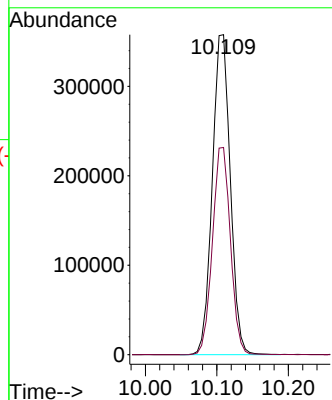
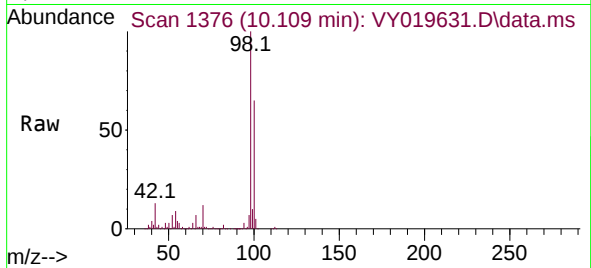




#50
Toluene-d8
Concen: 56.416 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019631.D
Acq: 19 Sep 2024 14:01

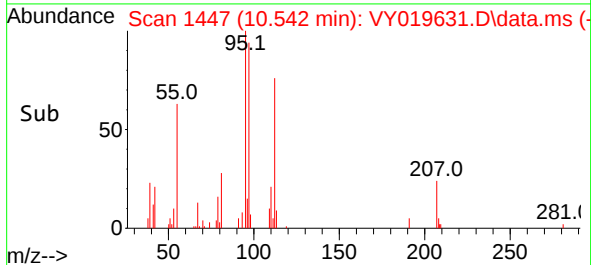
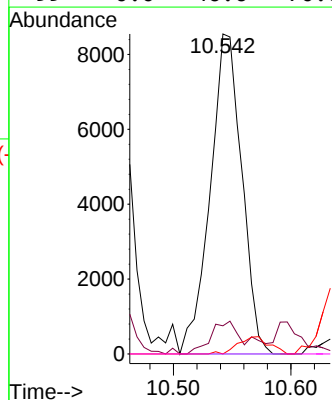
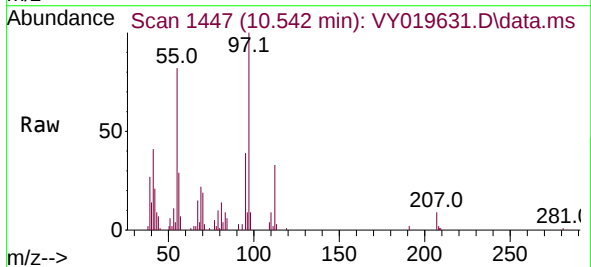
Instrument :
MSVOA_Y
ClientSampleId :

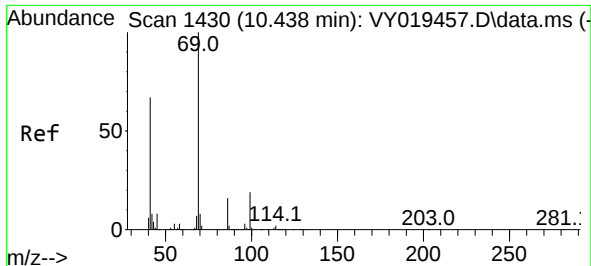
Tgt Ion: 98 Resp: 625199
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0



#55
1,1,2-Trichloroethane
Concen: 6.885 ug/l
RT: 10.542 min Scan# 1447
Delta R.T. -0.030 min
Lab File: VY019631.D
Acq: 19 Sep 2024 14:01

Tgt Ion: 97 Resp: 15961
Ion Ratio Lower Upper
97 100
83 8.8 67.5 101.3#
85 0.0 42.9 64.3#
99 0.0 46.6 70.0#





#56

Ethyl methacrylate

Concen: 2.007 ug/l

RT: 10.445 min Scan# 1430

Delta R.T. 0.006 min

Lab File: VY019631.D

Acq: 19 Sep 2024 14:01

Instrument :

MSVOA_Y

ClientSampleId :

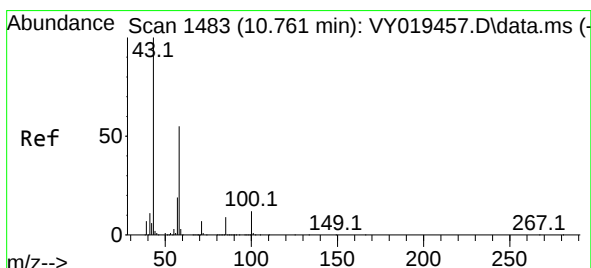
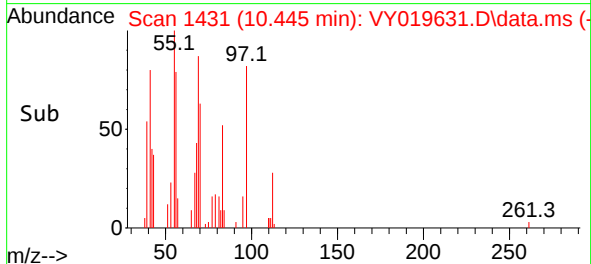
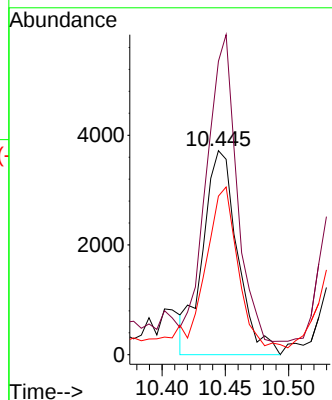
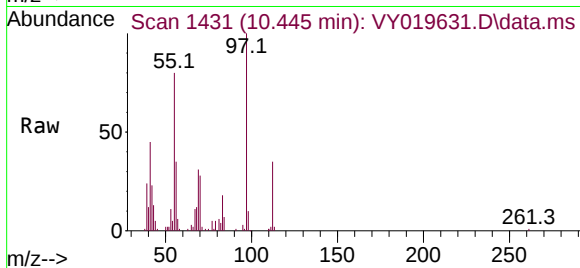
Tgt Ion: 69 Resp: 7068

Ion Ratio Lower Upper

69 100

41 134.2 42.3 63.5#

39 76.1 22.9 34.3#



#59

2-Hexanone

Concen: 7.880 ug/l

RT: 10.731 min Scan# 1478

Delta R.T. -0.030 min

Lab File: VY019631.D

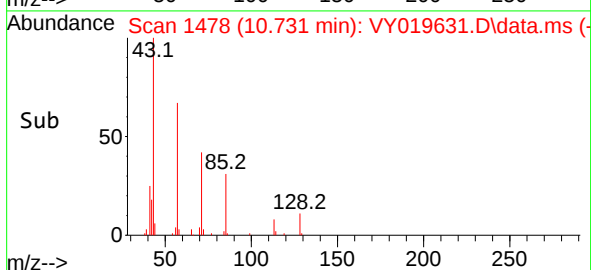
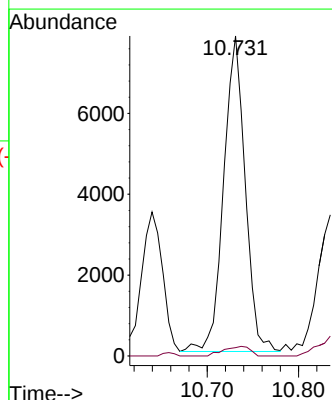
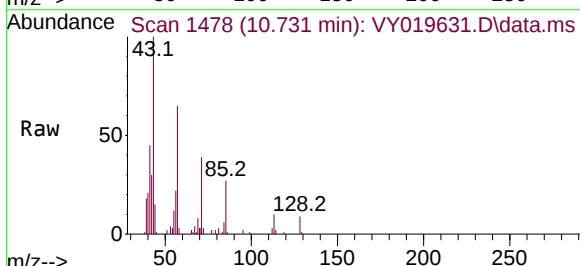
Acq: 19 Sep 2024 14:01

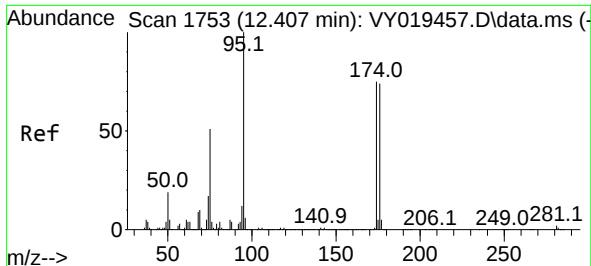
Tgt Ion: 43 Resp: 12755

Ion Ratio Lower Upper

43 100

58 3.7 31.4 94.0#





#62

4-Bromofluorobenzene

Concen: 47.280 ug/l

RT: 12.402 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY019631.D

Acq: 19 Sep 2024 14:01

Instrument :

MSVOA_Y

ClientSampleId :

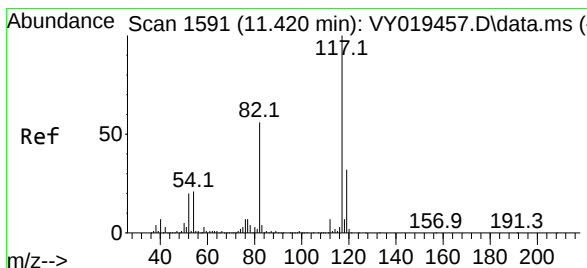
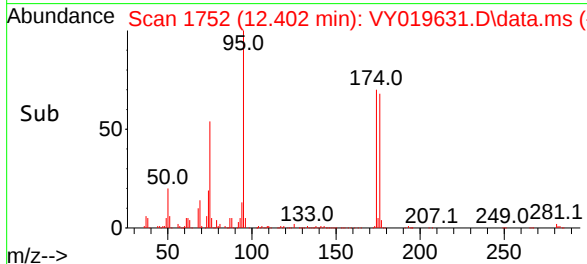
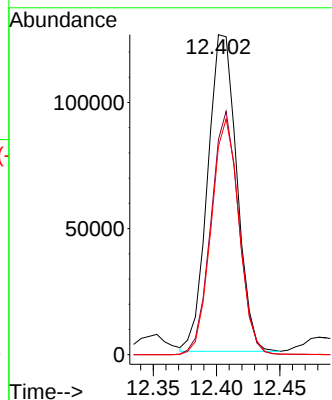
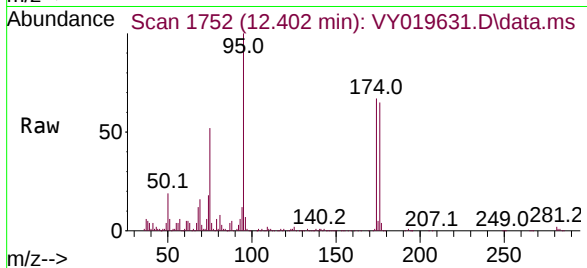
Tgt Ion: 95 Resp: 201468

Ion Ratio Lower Upper

95 100

174 73.2 0.0 175.6

176 71.2 0.0 171.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY019631.D

Acq: 19 Sep 2024 14:01

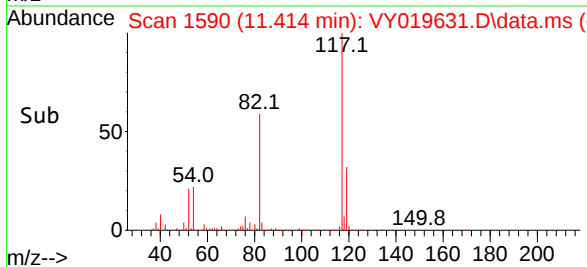
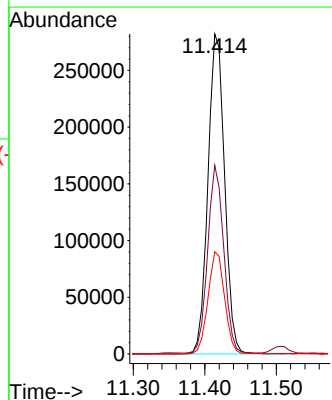
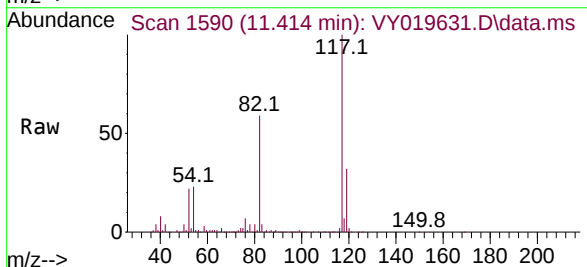
Tgt Ion: 117 Resp: 456116

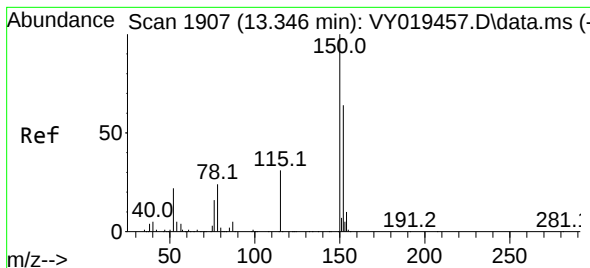
Ion Ratio Lower Upper

117 100

82 58.7 42.4 63.6

119 31.9 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY019631.D

Acq: 19 Sep 2024 14:01

Instrument :

MSVOA_Y

ClientSampleId :

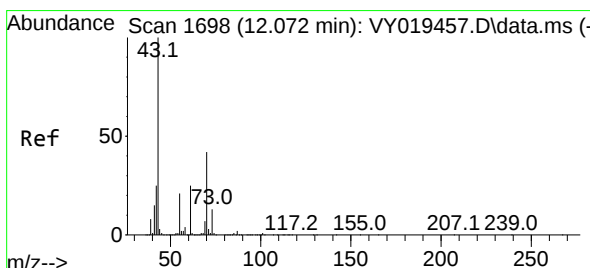
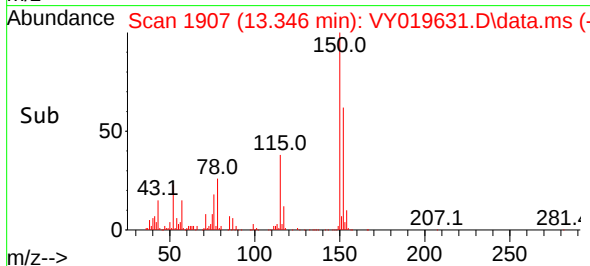
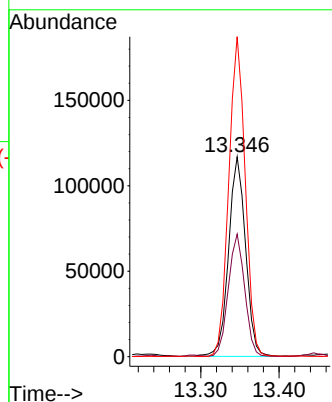
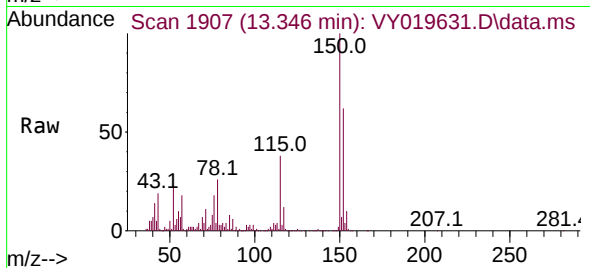
Tgt Ion:152 Resp: 175744

Ion Ratio Lower Upper

152 100

115 59.0 28.2 84.7

150 155.2 0.0 345.6



#74

N-ethyl acetate

Concen: 7.884 ug/l

RT: 12.048 min Scan# 1694

Delta R.T. -0.024 min

Lab File: VY019631.D

Acq: 19 Sep 2024 14:01

Tgt Ion: 43 Resp: 27338

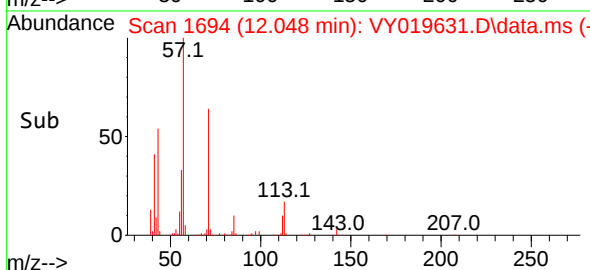
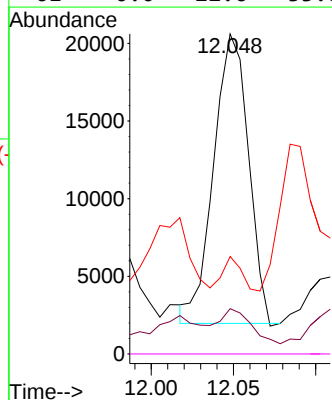
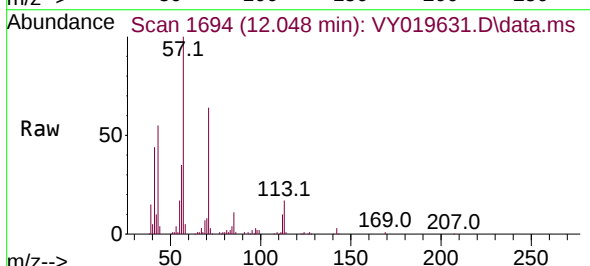
Ion Ratio Lower Upper

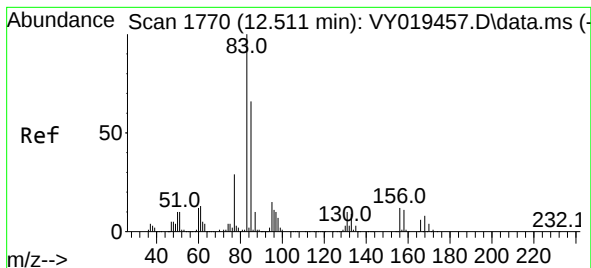
43 100

70 10.4 41.4 62.2#

55 6.3 23.3 34.9#

61 0.0 22.6 33.8#





#75

1,1,2,2-Tetrachloroethane

Concen: 6.690 ug/l

RT: 12.566 min Scan# 1753

Delta R.T. 0.055 min

Lab File: VY019631.D

Acq: 19 Sep 2024 14:01

Instrument :

MSVOA_Y

ClientSampleId :

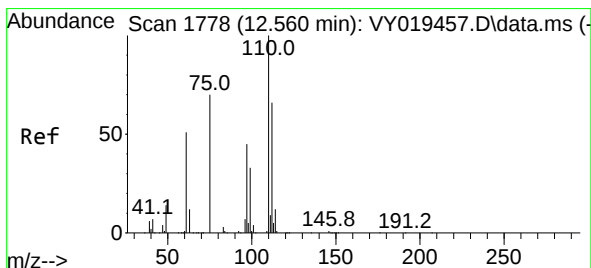
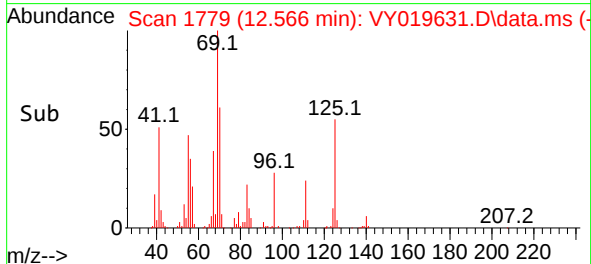
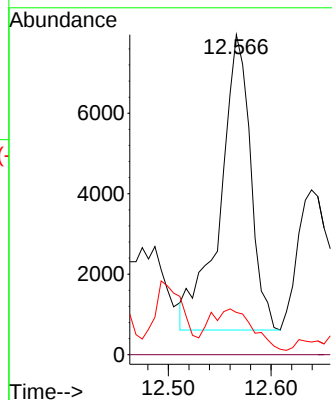
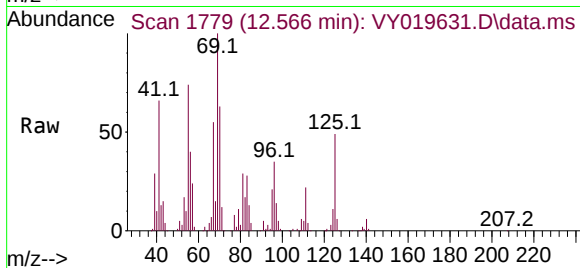
Tgt Ion: 83 Resp: 15139

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 19.5 32.0 96.0#



#76

1,2,3-Trichloropropane

Concen: 63.165 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.152 min

Lab File: VY019631.D

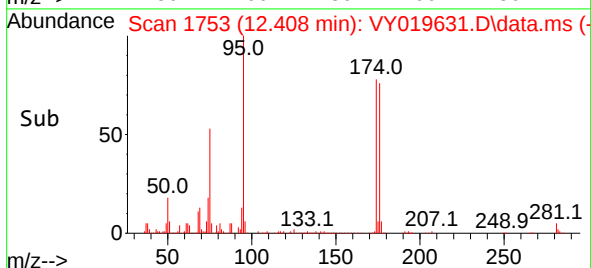
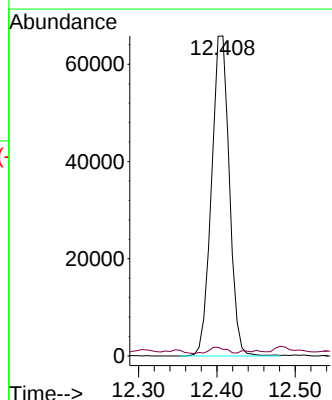
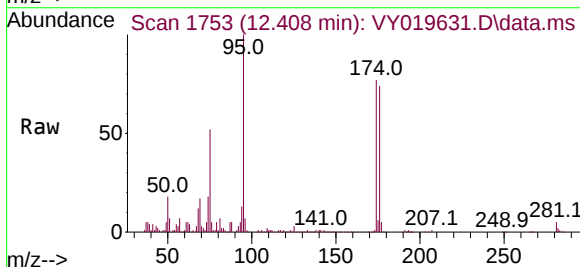
Acq: 19 Sep 2024 14:01

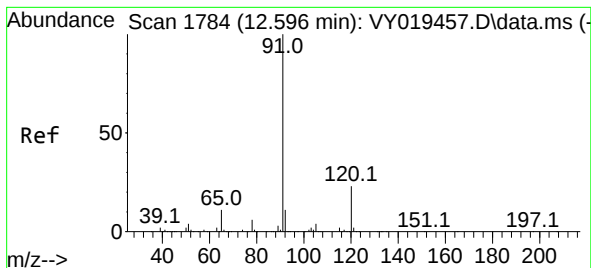
Tgt Ion: 75 Resp: 104047

Ion Ratio Lower Upper

75 100

77 1.9 0.0 0.0#





#78

n-propylbenzene

Concen: 2.343 ug/l

RT: 12.597 min Scan# 1784

Delta R.T. 0.000 min

Lab File: VY019631.D

Acq: 19 Sep 2024 14:01

Instrument :

MSVOA_Y

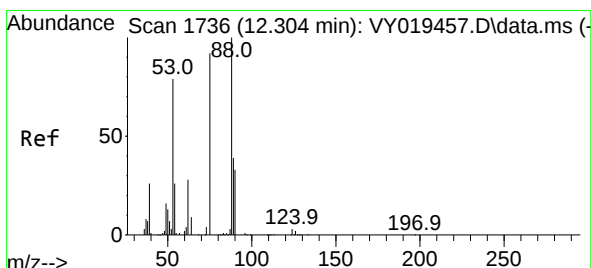
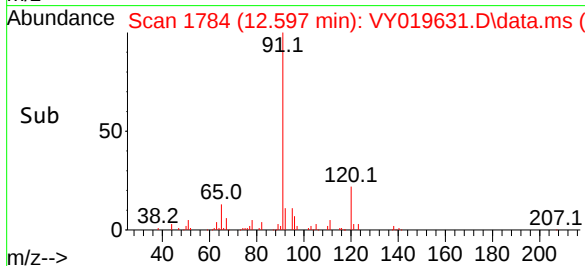
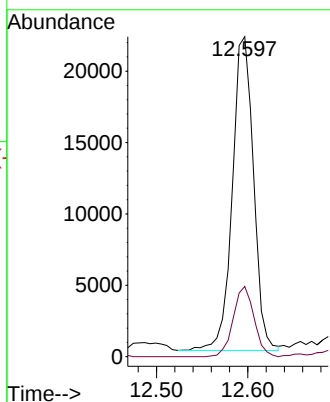
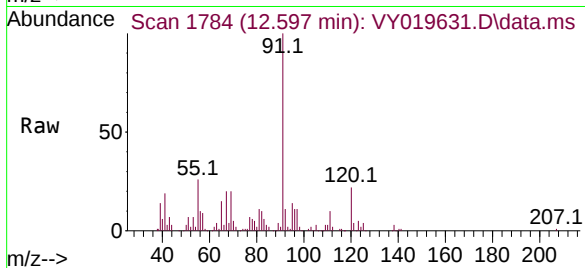
ClientSampleId :

Tgt Ion: 91 Resp: 35410

Ion Ratio Lower Upper

91 100

120 22.0 11.5 34.4



#81

trans-1,4-Dichloro-2-butene

Concen: 121.258 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.104 min

Lab File: VY019631.D

Acq: 19 Sep 2024 14:01

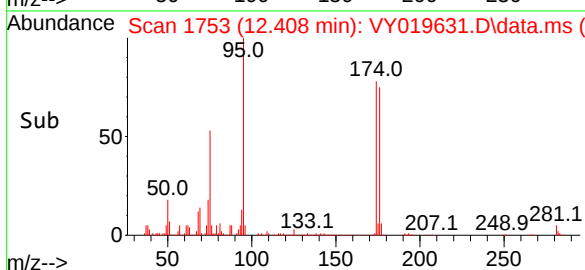
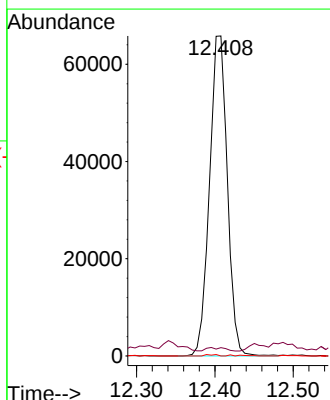
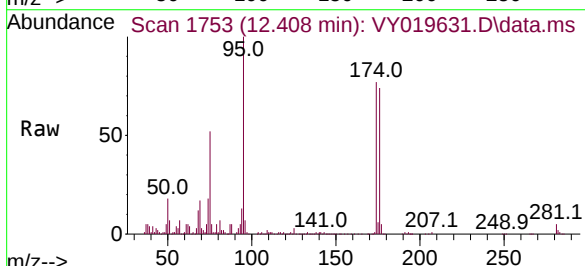
Tgt Ion: 75 Resp: 104047

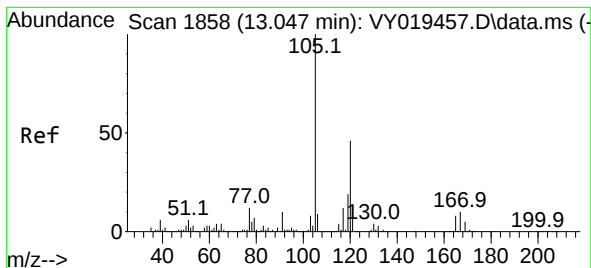
Ion Ratio Lower Upper

75 100

53 0.0 66.8 100.2#

89 0.1 35.8 53.6#





#84

1,2,4-Trimethylbenzene

Concen: 1.128 ug/l

RT: 13.042 min Scan# 1858

Delta R.T. -0.006 min

Lab File: VY019631.D

Acq: 19 Sep 2024 14:01

Instrument :

MSVOA_Y

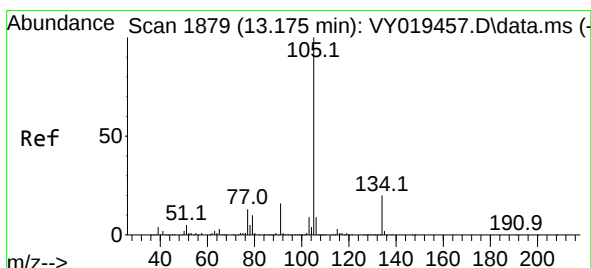
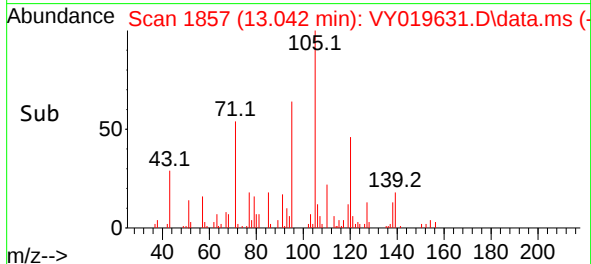
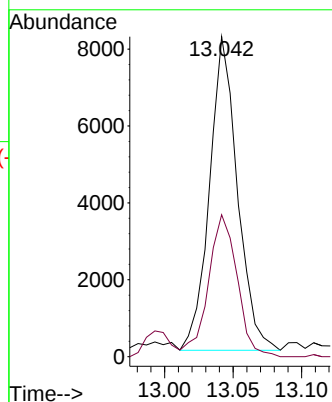
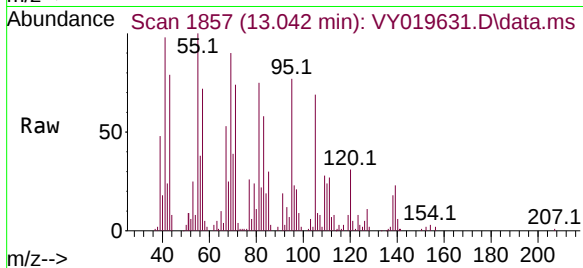
ClientSampleId :

Tgt Ion:105 Resp: 11569

Ion Ratio Lower Upper

105 100

120 46.6 23.2 69.6



#85

sec-Butylbenzene

Concen: 3.102 ug/l

RT: 13.176 min Scan# 1879

Delta R.T. 0.000 min

Lab File: VY019631.D

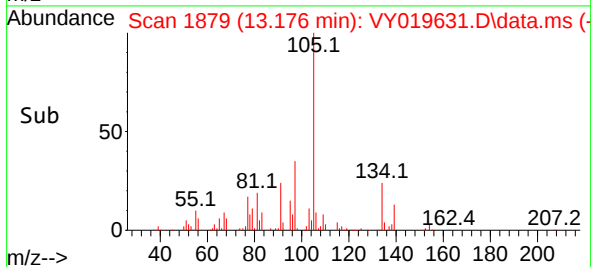
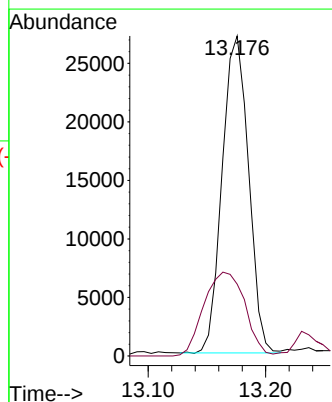
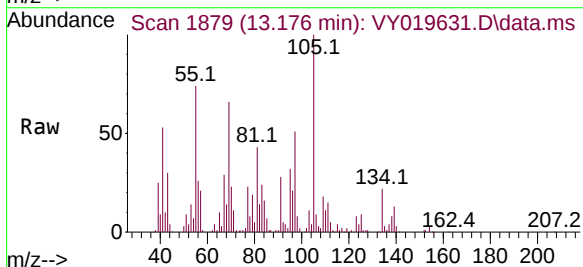
Acq: 19 Sep 2024 14:01

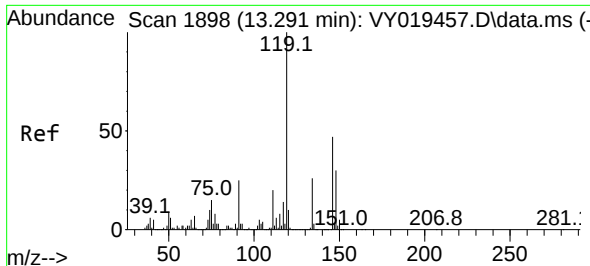
Tgt Ion:105 Resp: 42289

Ion Ratio Lower Upper

105 100

134 41.0 10.1 30.1#

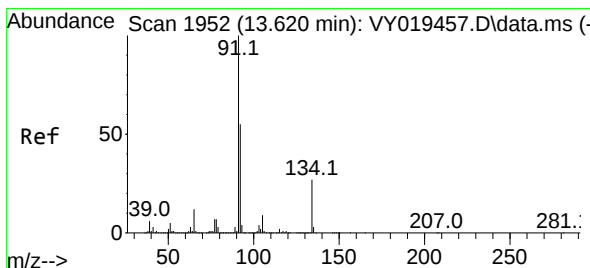
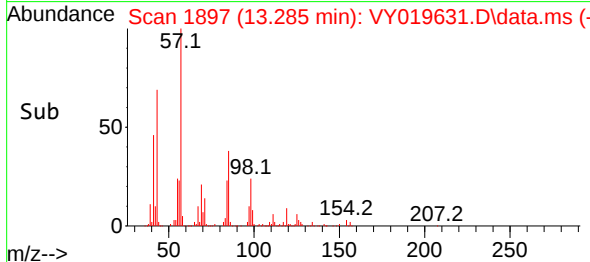
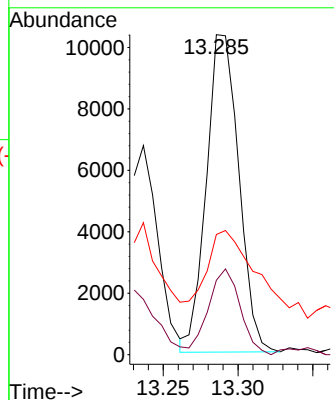
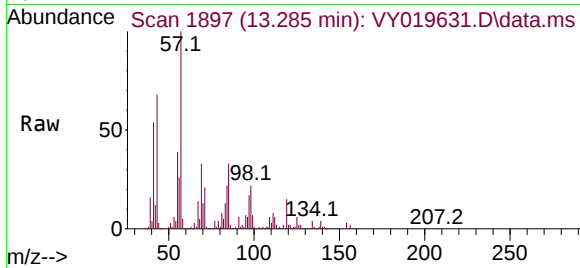




#86
p-Isopropyltoluene
Concen: 1.398 ug/l
RT: 13.285 min Scan# 119
Delta R.T. -0.006 min
Lab File: VY019631.D
Acq: 19 Sep 2024 14:01

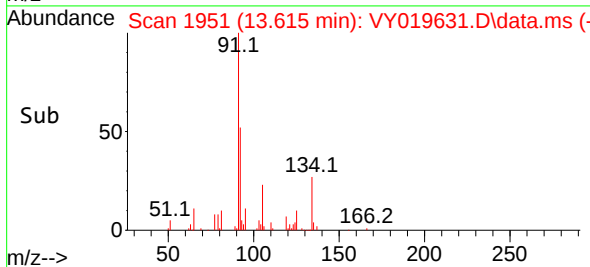
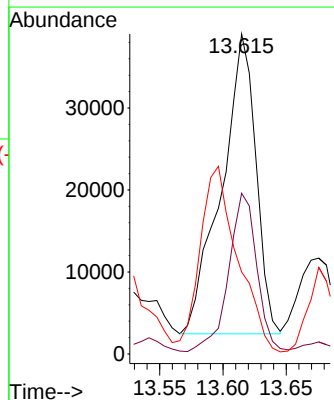
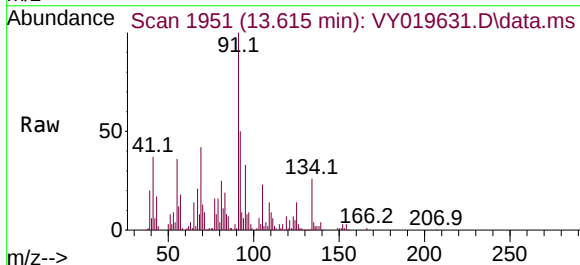
Instrument :
MSVOA_Y
ClientSampleId :

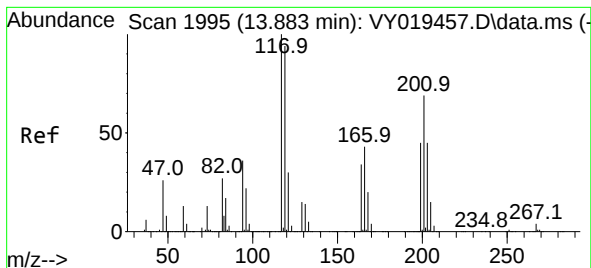
Tgt Ion:119 Resp: 15593
Ion Ratio Lower Upper
119 100
134 26.2 13.1 39.3
91 43.3 10.7 32.1#



#89
n-Butylbenzene
Concen: 6.495 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. -0.006 min
Lab File: VY019631.D
Acq: 19 Sep 2024 14:01

Tgt Ion: 91 Resp: 69251
Ion Ratio Lower Upper
91 100
92 43.1 26.6 79.7
134 67.7 12.9 38.7#





#90

Hexachloroethane

Concen: 12.721 ug/l

RT: 13.889 min Scan# 1995

Delta R.T. 0.006 min

Lab File: VY019631.D

Acq: 19 Sep 2024 14:01

Instrument :

MSVOA_Y

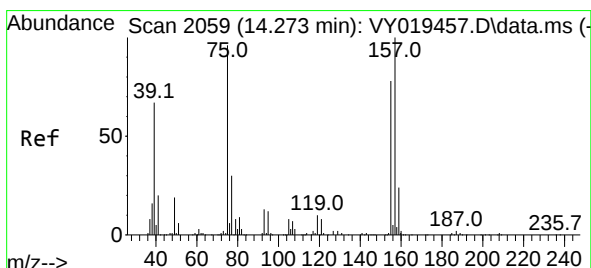
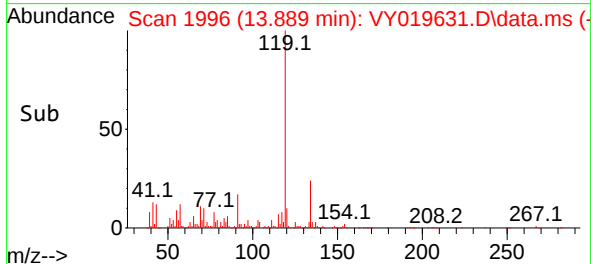
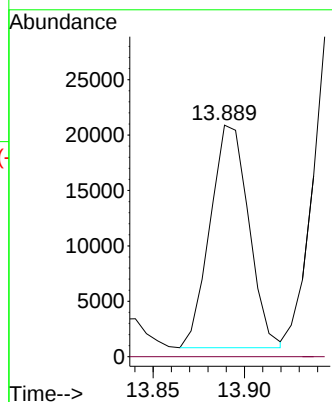
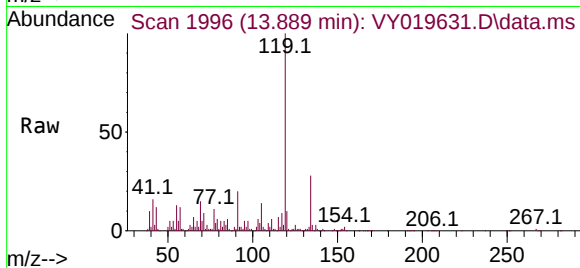
ClientSampleId :

Tgt Ion:117 Resp: 29520

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.266 ug/l

RT: 14.297 min Scan# 2063

Delta R.T. 0.025 min

Lab File: VY019631.D

Acq: 19 Sep 2024 14:01

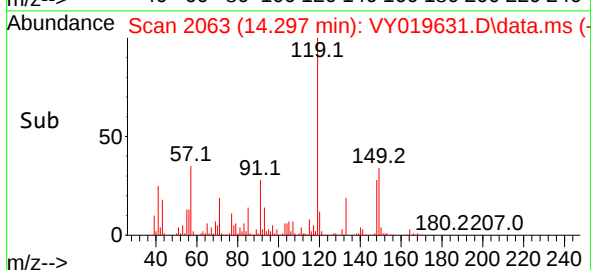
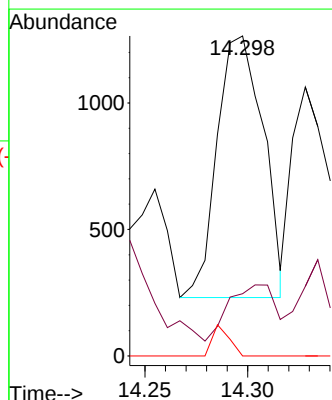
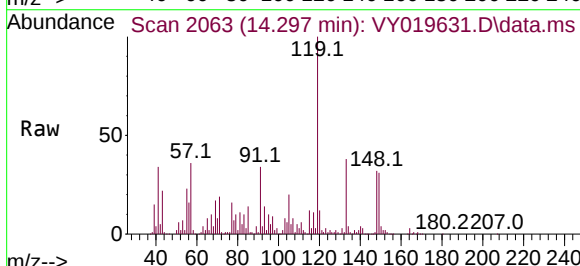
Tgt Ion: 75 Resp: 1609

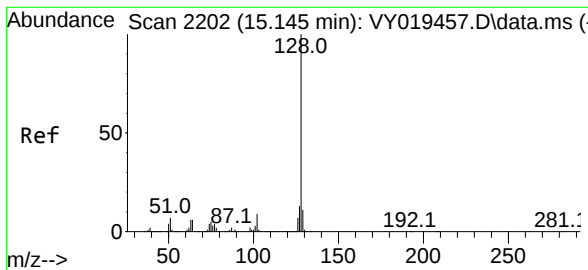
Ion Ratio Lower Upper

75 100

155 21.5 48.6 145.8#

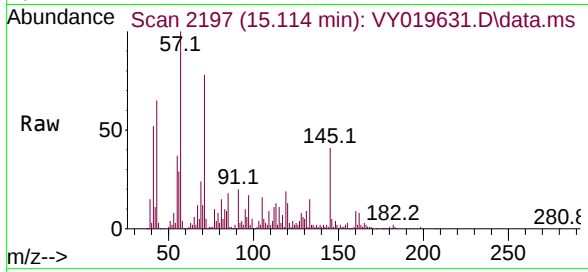
157 4.3 62.7 188.2#





#95
Naphthalene
Concen: 3.104 ug/l
RT: 15.114 min Scan# 21
Delta R.T. -0.030 min
Lab File: VY019631.D
Acq: 19 Sep 2024 14:01

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion:128 Resp: 18535
Ion Ratio Lower Upper
128 100
127 61.0 10.6 16.0#
129 77.8 8.6 13.0#

