

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022322\
 Data File : VY007608.D
 Acq On : 23 Feb 2022 19:16
 Operator : SY/MD
 Sample : N1584-08
 Misc : 6.44g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 D13-12.5

Quant Time: Feb 24 08:25:21 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022322S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 24 07:13:58 2022
 Response via : Initial Calibration

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

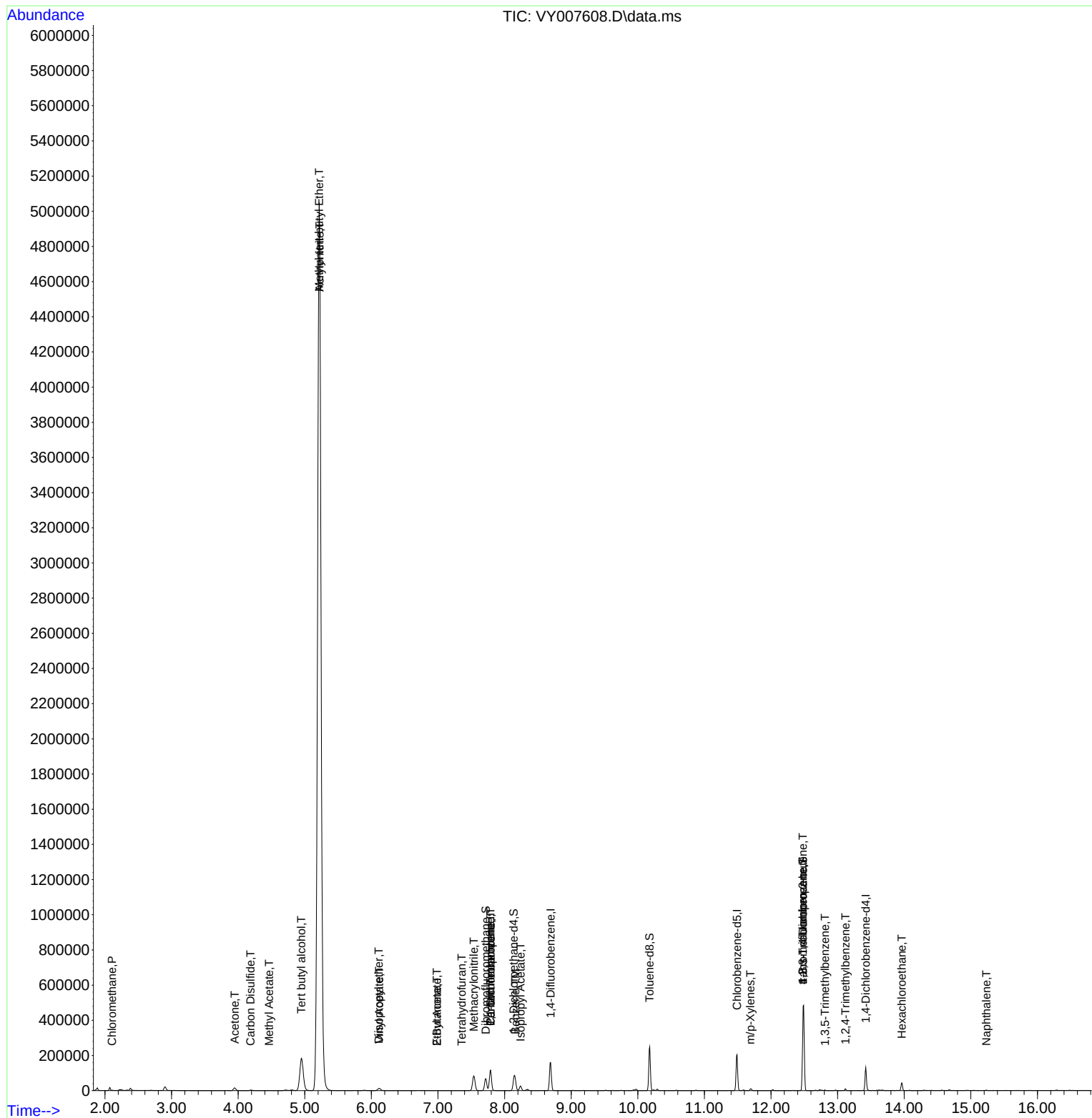
Internal Standards						
1) Pentafluorobenzene	7.789	168	86118	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	143049	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	115923	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	31424	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	44754	46.715	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 93.420%			
35) Dibromofluoromethane	7.716	113	45844	50.790	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.580%			
50) Toluene-d8	10.179	98	163853	49.136	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 98.280%			
62) 4-Bromofluorobenzene	12.477	95	37770	33.093	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 66.180%			
Target Compounds						Qvalue
3) Chloromethane	2.107	50	675	1.386	ug/l #	71
5) Bromomethane	2.662	94	264	Below Cal	#	72
11) Tert butyl alcohol	4.948	59	394766	4091.275	ug/l #	94
15) Acrylonitrile	5.222	53	96355	449.316	ug/l #	24
16) Acetone	3.948	43	25257	115.760	ug/l #	83
17) Carbon Disulfide	4.186	76	6921	2.863	ug/l #	90
18) Methyl Acetate	4.466	43	943	3.200	ug/l #	79
19) Methyl tert-butyl Ether	5.216	73	9046804	3460.368	ug/l	92
22) Diisopropyl ether	6.112	45	14739	7.800	ug/l #	86
23) Vinyl Acetate	6.118	43	8704	6.385	ug/l #	75
25) 2-Butanone	6.984	43	716	2.895	ug/l	97
29) Tetrahydrofuran	7.356	42	158	1.097	ug/l #	38
31) Cyclohexane	7.789	56	2589	Below Cal	#	49
36) 1,1-Dichloropropene	7.789	75	5679	4.366	ug/l #	53
37) Ethyl Acetate	6.984	43	716	1.223	ug/l #	72
38) Carbon Tetrachloride	7.789	117	9559	5.018	ug/l #	13
39) Methylcyclohexane	9.167	83	313	Below Cal	#	16
40) Benzene	8.161	78	51131	13.778	ug/l	98
41) Methacrylonitrile	7.539	41	32819	101.622	ug/l #	46
43) Isopropyl Acetate	8.240	43	6109	5.107	ug/l #	56
68) m/p-Xylenes	11.691	106	3251	1.959	ug/l	96
76) 1,2,3-Trichloropropane	12.477	75	25736	81.887	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.812	105	2110	1.025	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.477	75	25736	176.071	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.117	105	5725	2.837	ug/l	99
90) Hexachloroethane	13.965	117	544	1.208	ug/l #	6
95) Naphthalene	15.233	128	2319	1.455	ug/l	97

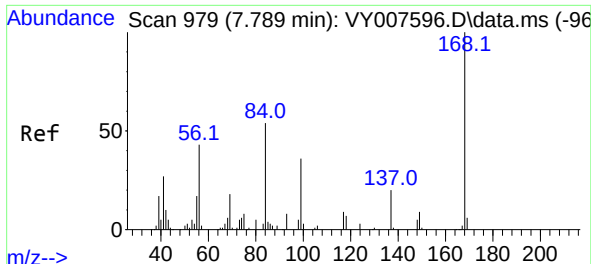
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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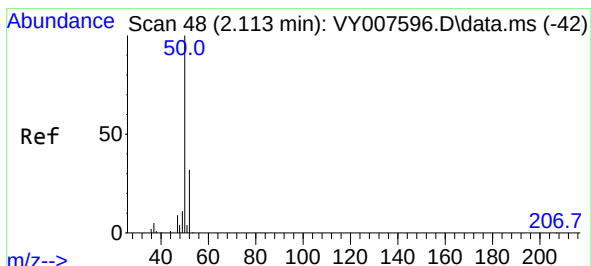
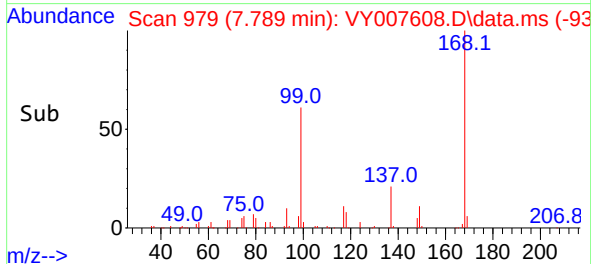
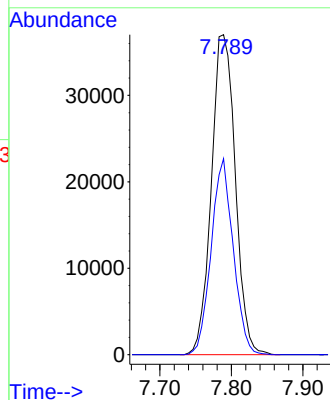
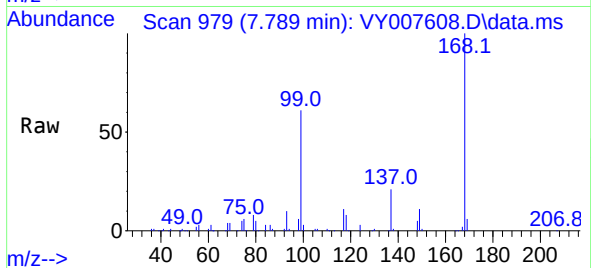




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

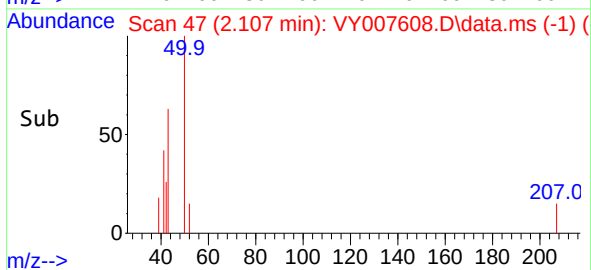
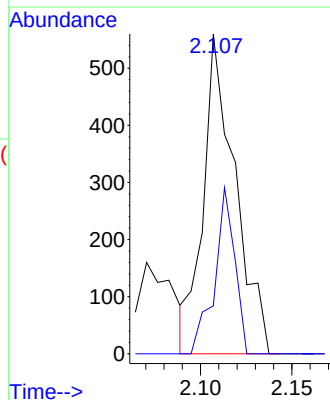
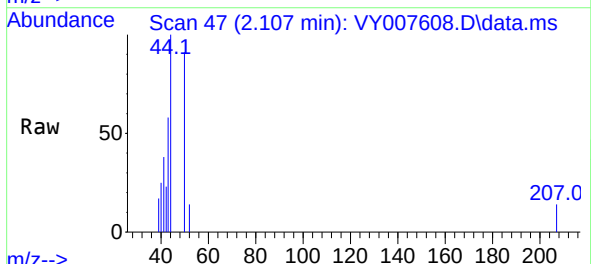
Instrument :
MSVOA_Y
ClientSampleId :
D13-12.5

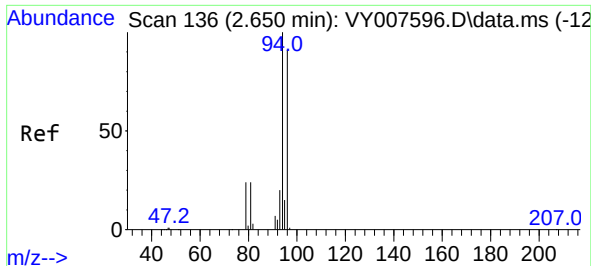
Tgt Ion:168 Resp: 86118
Ion Ratio Lower Upper
168 100
99 61.2 46.9 70.3



#3
Chloromethane
Concen: 1.386 ug/l
RT: 2.107 min Scan# 47
Delta R.T. -0.006 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

Tgt Ion: 50 Resp: 675
Ion Ratio Lower Upper
50 100
52 15.0 24.6 37.0

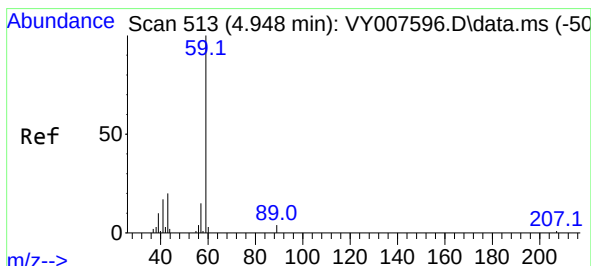
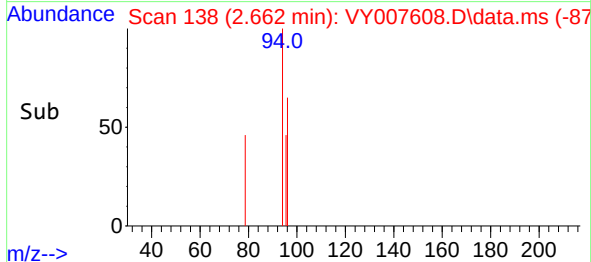
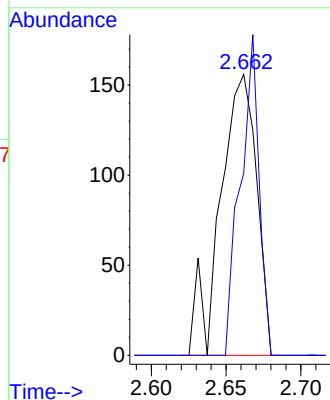
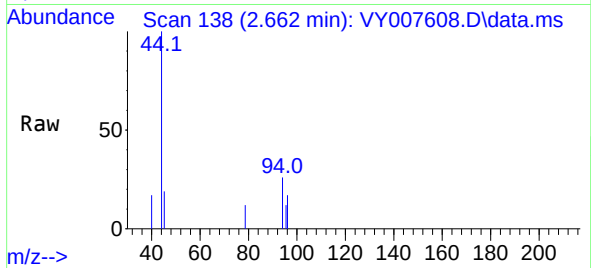




#5
Bromomethane
Concen: Below Cal
RT: 2.662 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

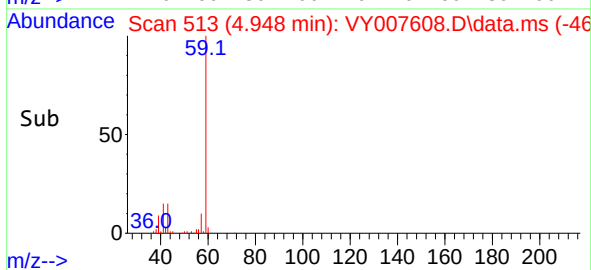
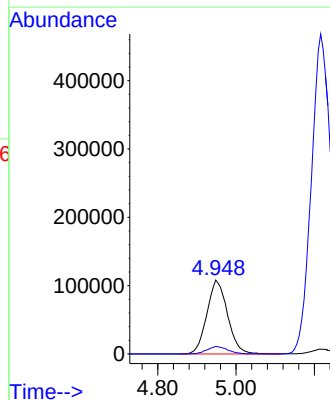
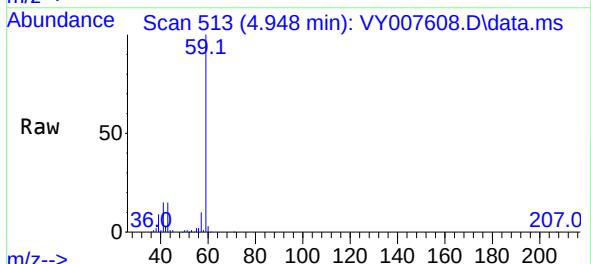
Instrument :
MSVOA_Y
ClientSampleId :
D13-12.5

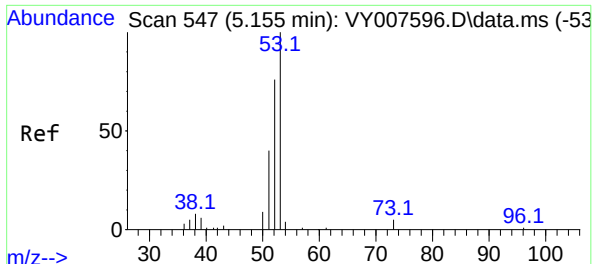
Tgt Ion: 94 Resp: 264
Ion Ratio Lower Upper
94 100
96 64.7 73.5 110.3#



#11
Tert butyl alcohol
Concen: 4091.275 ug/l
RT: 4.948 min Scan# 513
Delta R.T. -0.000 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

Tgt Ion: 59 Resp: 394766
Ion Ratio Lower Upper
59 100
57 10.2 6.4 9.6#

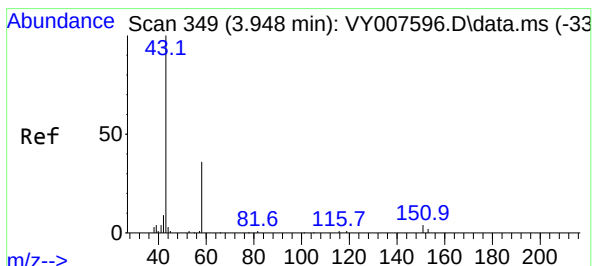
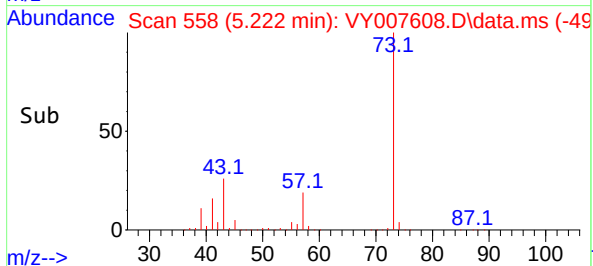
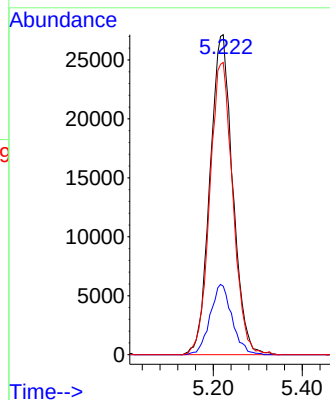
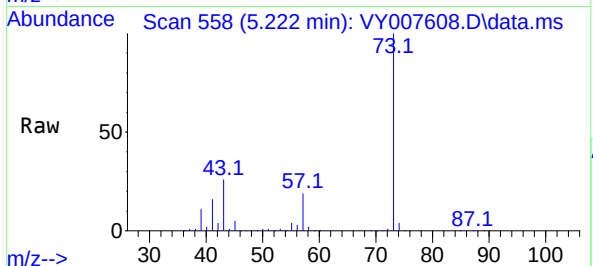




#15
Acrylonitrile
Concen: 449.316 ug/l
RT: 5.222 min Scan# 51
Delta R.T. 0.067 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

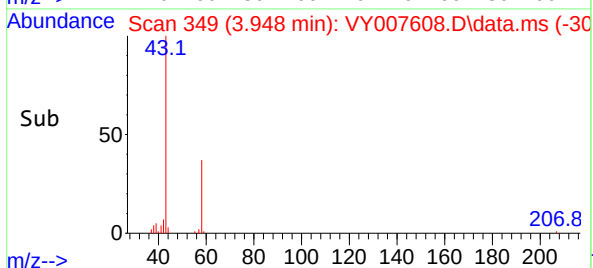
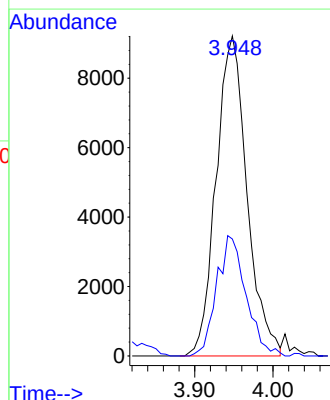
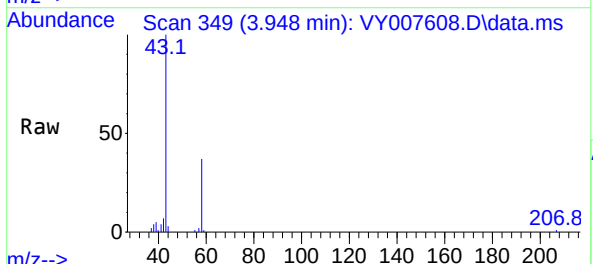
Instrument :
MSVOA_Y
ClientSampleId :
D13-12.5

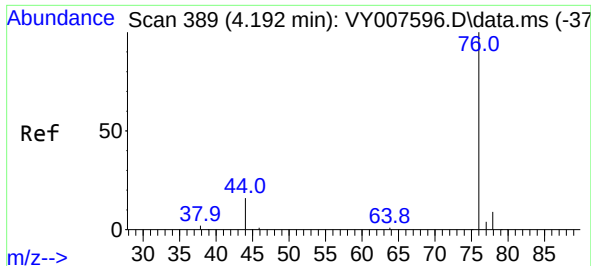
Tgt Ion: 53 Resp: 96355
Ion Ratio Lower Upper
53 100
52 21.2 67.0 100.4#
51 92.3 29.8 44.6#



#16
Acetone
Concen: 115.760 ug/l
RT: 3.948 min Scan# 349
Delta R.T. 0.000 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

Tgt Ion: 43 Resp: 25257
Ion Ratio Lower Upper
43 100
58 36.6 22.0 33.0#

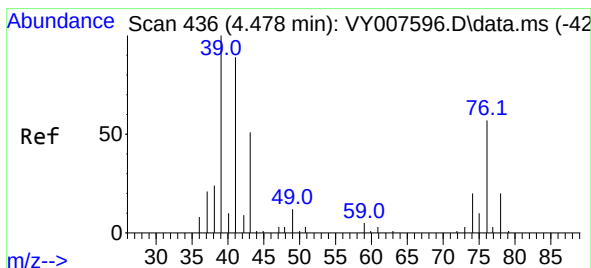
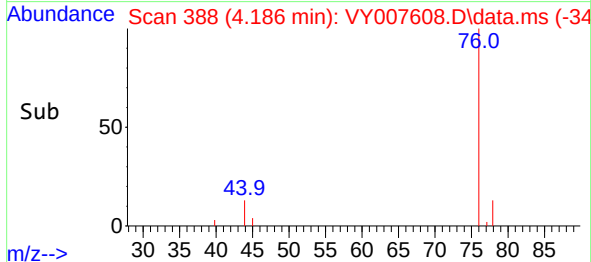
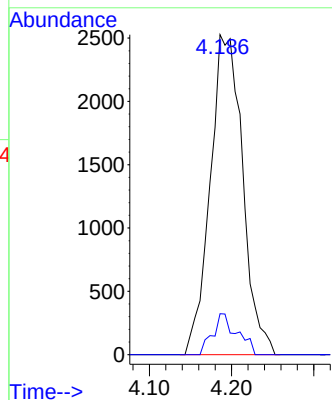
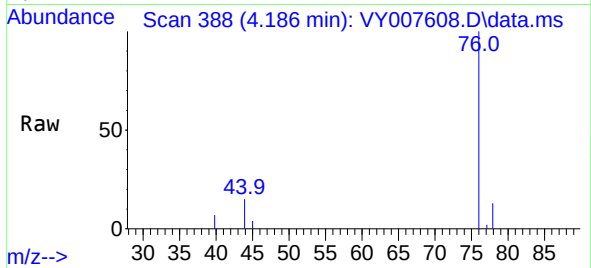




#17
Carbon Disulfide
Concen: 2.863 ug/l
RT: 4.186 min Scan# 31
Delta R.T. -0.006 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

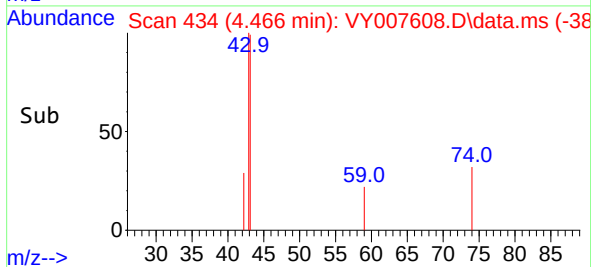
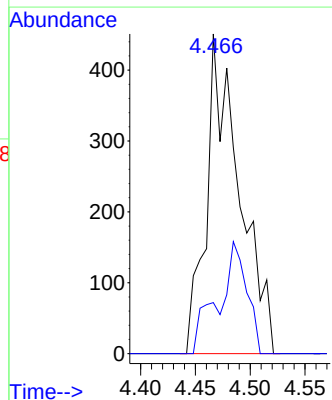
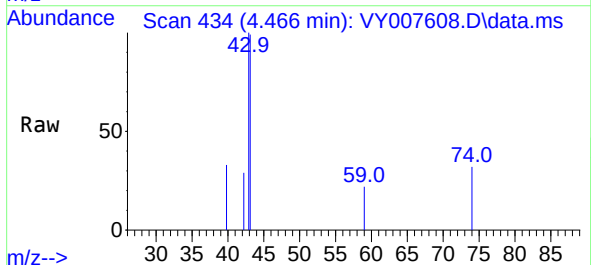
Instrument :
MSVOA_Y
ClientSampleId :
D13-12.5

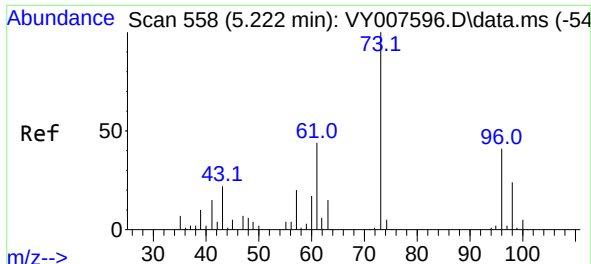
Tgt Ion: 76 Resp: 6921
Ion Ratio Lower Upper
76 100
78 12.8 7.4 11.0#



#18
Methyl Acetate
Concen: 3.200 ug/l
RT: 4.466 min Scan# 434
Delta R.T. -0.012 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

Tgt Ion: 43 Resp: 943
Ion Ratio Lower Upper
43 100
74 30.4 16.6 24.8#





#19

Methyl tert-butyl Ether

Concen: 3460.368 ug/l

RT: 5.216 min Scan# 51

Delta R.T. -0.006 min

Lab File: VY007608.D

Acq: 23 Feb 2022 19:16

Instrument :

MSVOA_Y

ClientSampleId :

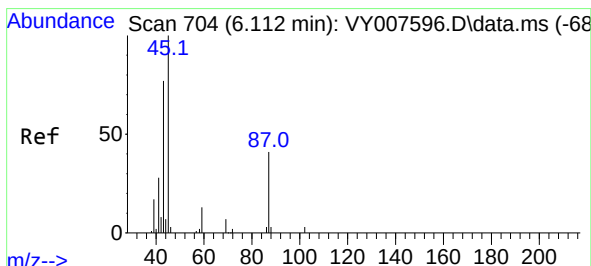
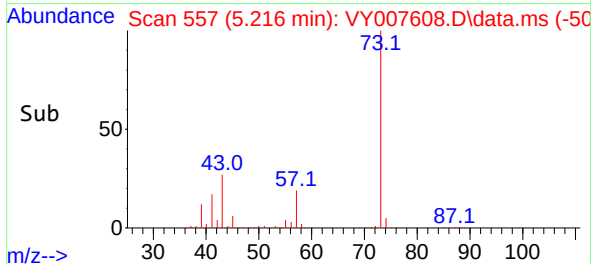
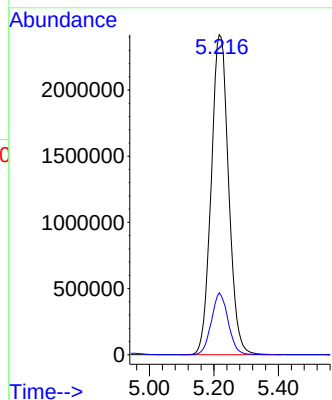
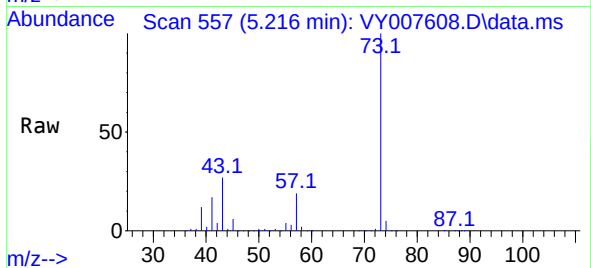
D13-12.5

Tgt Ion: 73 Resp: 9046804

Ion Ratio Lower Upper

73 100

57 19.4 18.6 27.8



#22

Diisopropyl ether

Concen: 7.800 ug/l

RT: 6.112 min Scan# 704

Delta R.T. 0.000 min

Lab File: VY007608.D

Acq: 23 Feb 2022 19:16

Tgt Ion: 45 Resp: 14739

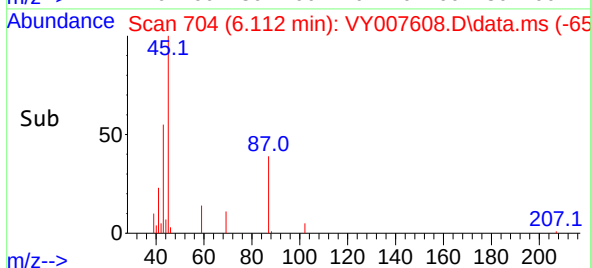
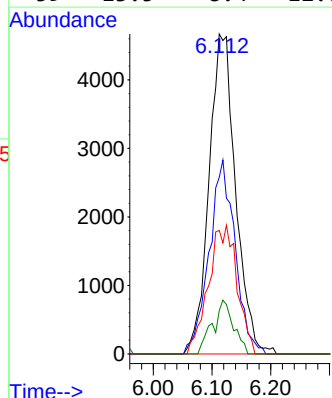
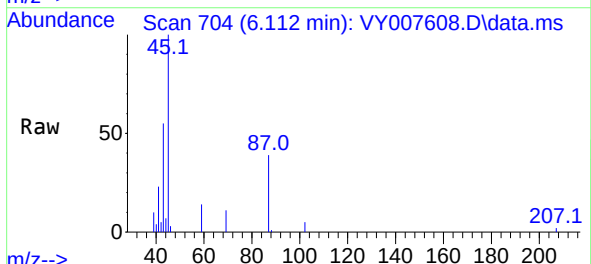
Ion Ratio Lower Upper

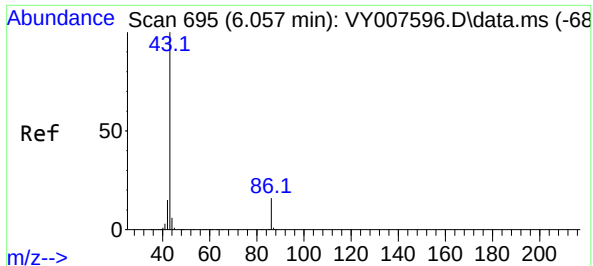
45 100

43 55.2 49.3 73.9

87 38.6 19.2 28.8#

59 13.5 8.4 12.6#





#23

Vinyl Acetate

Concen: 6.385 ug/l

RT: 6.118 min Scan# 705

Delta R.T. 0.061 min

Lab File: VY007608.D

Acq: 23 Feb 2022 19:16

Instrument :

MSVOA_Y

ClientSampleId :

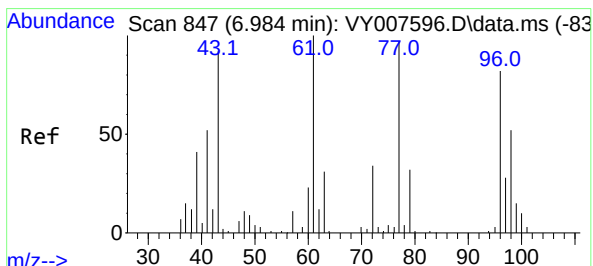
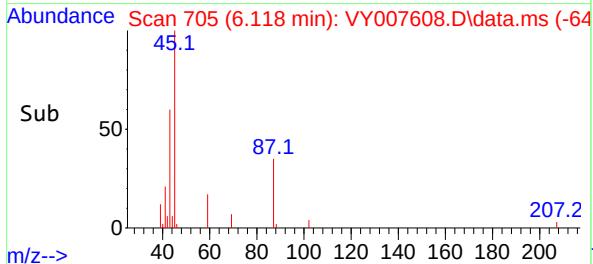
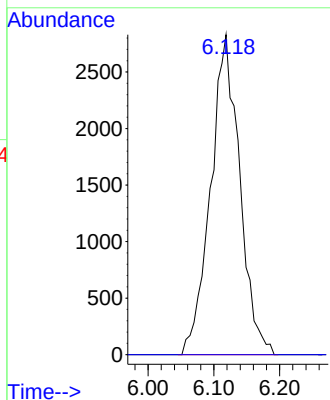
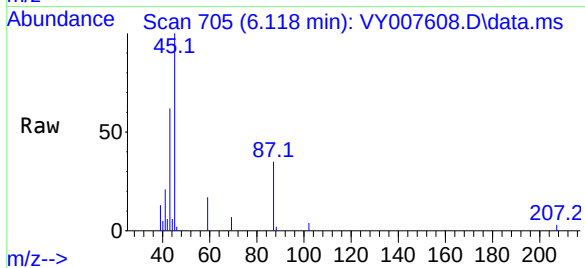
D13-12.5

Tgt Ion: 43 Resp: 8704

Ion Ratio Lower Upper

43 100

86 0.0 7.1 10.7#



#25

2-Butanone

Concen: 2.895 ug/l

RT: 6.984 min Scan# 847

Delta R.T. 0.000 min

Lab File: VY007608.D

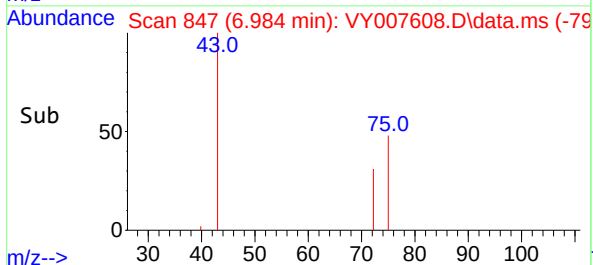
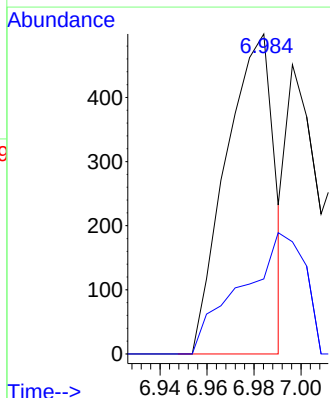
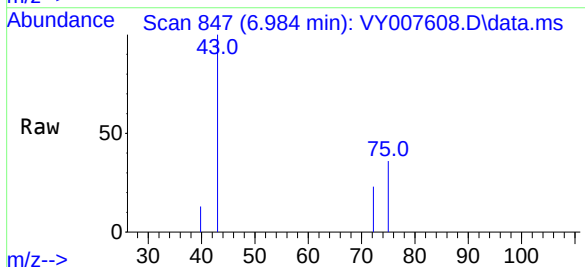
Acq: 23 Feb 2022 19:16

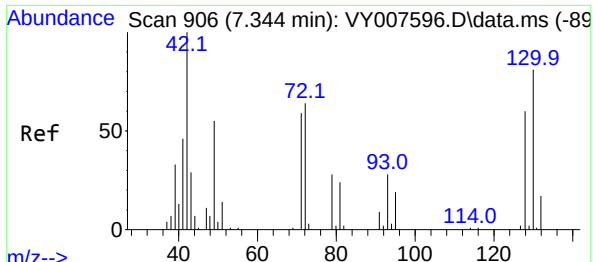
Tgt Ion: 43 Resp: 716

Ion Ratio Lower Upper

43 100

72 23.4 17.7 26.5





#29

Tetrahydrofuran

Concen: 1.097 ug/l

RT: 7.356 min Scan# 90

Delta R.T. 0.012 min

Lab File: VY007608.D

Acq: 23 Feb 2022 19:16

Instrument :

MSVOA_Y

ClientSampleId :

D13-12.5

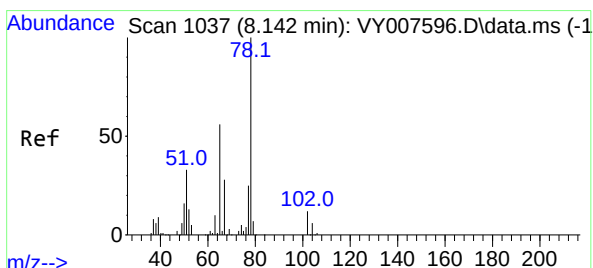
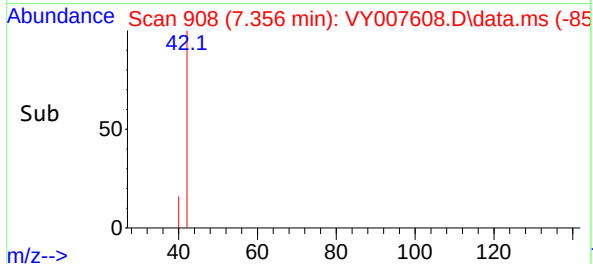
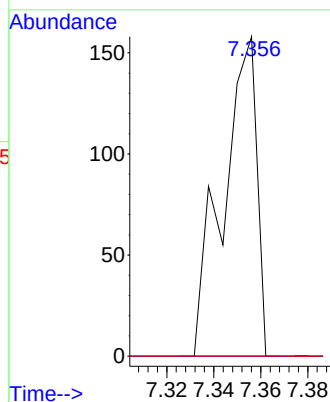
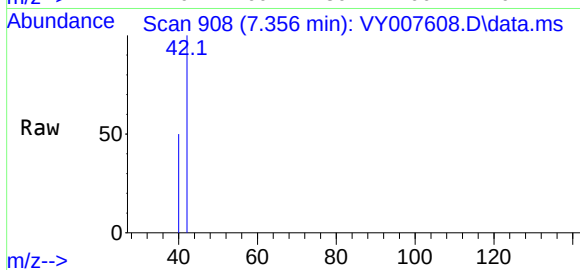
Tgt Ion: 42 Resp: 158

Ion Ratio Lower Upper

42 100

72 0.0 30.3 45.5#

71 0.0 29.0 43.4#



#33

1,2-Dichloroethane-d4

Concen: 46.715 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. -0.006 min

Lab File: VY007608.D

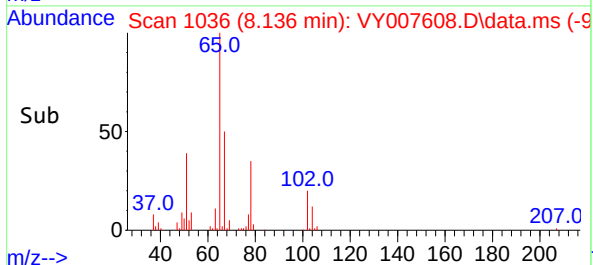
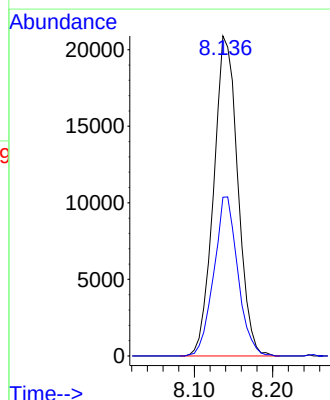
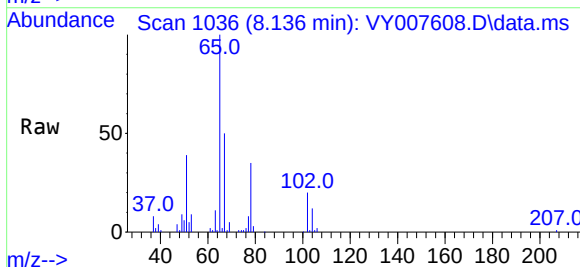
Acq: 23 Feb 2022 19:16

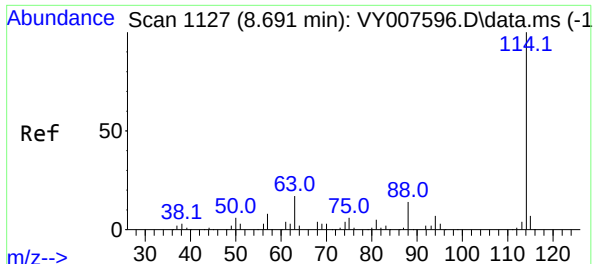
Tgt Ion: 65 Resp: 44754

Ion Ratio Lower Upper

65 100

67 49.5 0.0 99.4

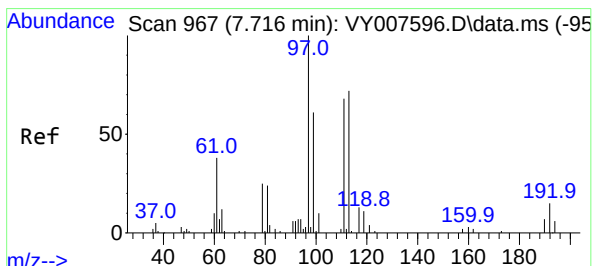
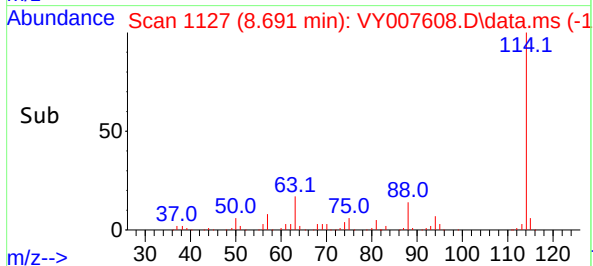
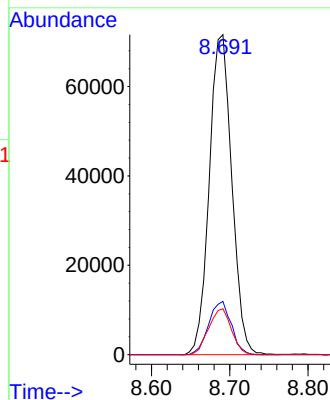
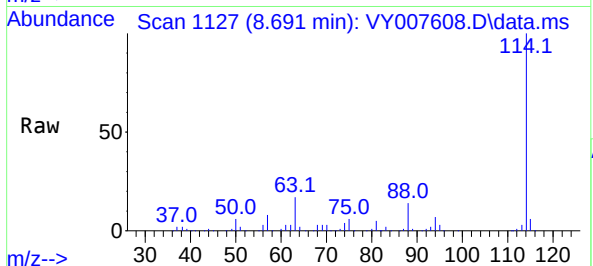




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.691 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

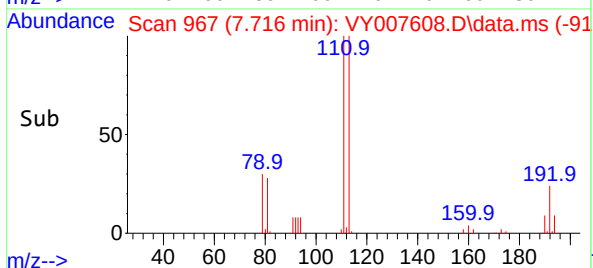
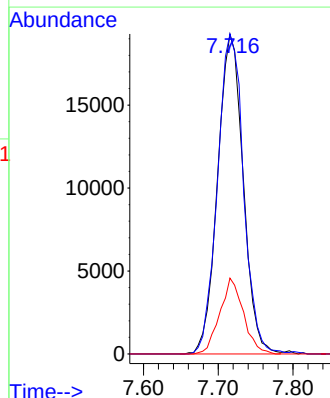
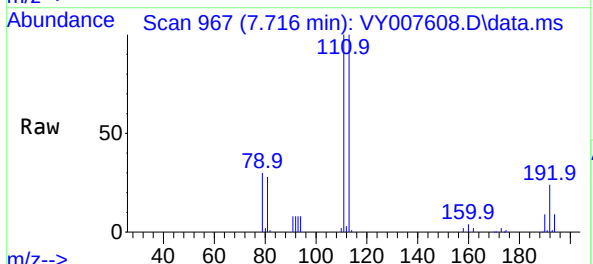
Instrument :
MSVOA_Y
ClientSampleId :
D13-12.5

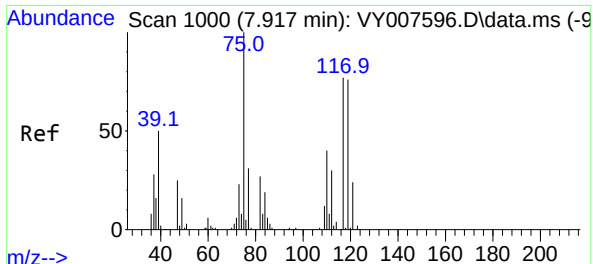
Tgt Ion:114 Resp: 143049
Ion Ratio Lower Upper
114 100
63 16.7 0.0 43.2
88 14.4 0.0 31.8



#35
Dibromofluoromethane
Concen: 50.790 ug/l
RT: 7.716 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

Tgt Ion:113 Resp: 45844
Ion Ratio Lower Upper
113 100
111 101.8 82.6 124.0
192 21.9 17.6 26.4

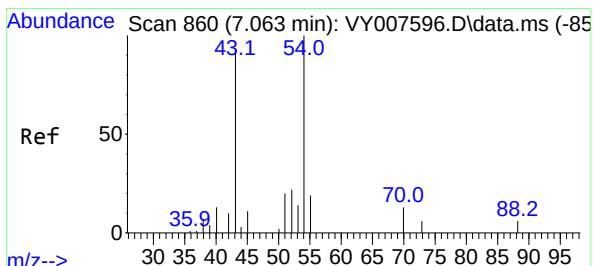
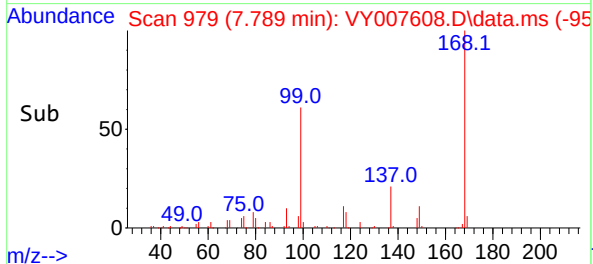
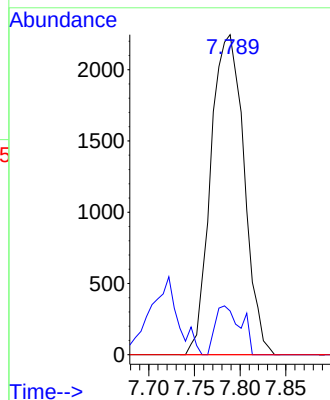
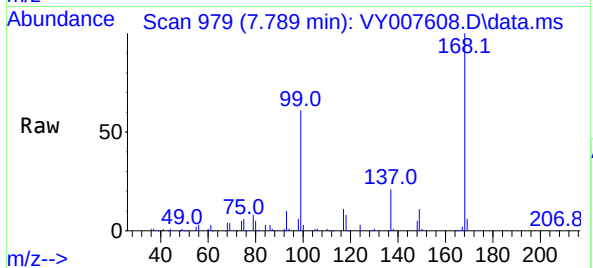




#36
1,1-Dichloropropene
Concen: 4.366 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

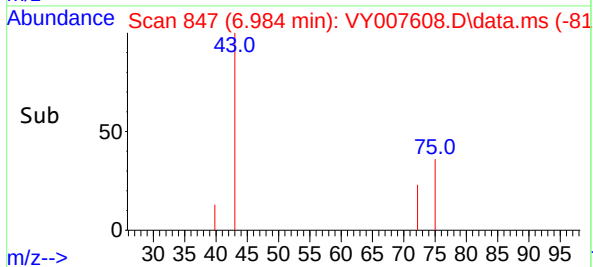
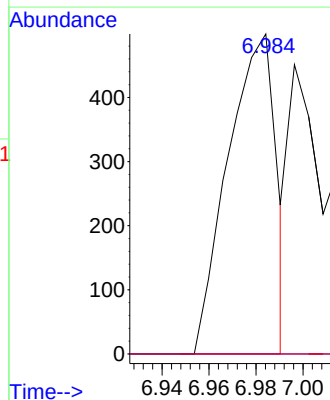
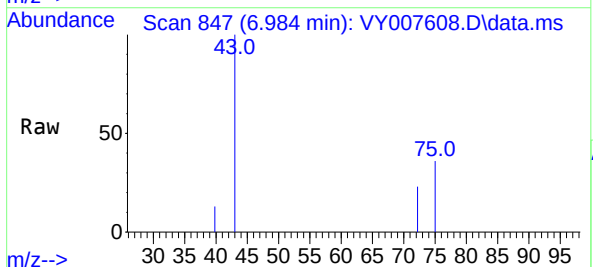
Instrument :
MSVOA_Y
ClientSampleId :
D13-12.5

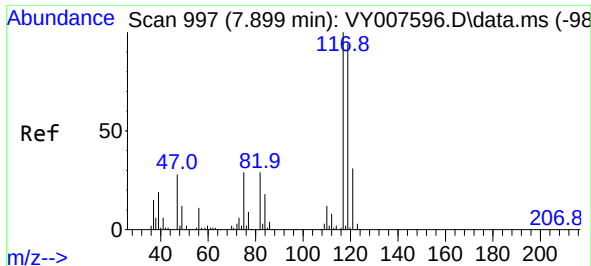
Tgt Ion: 75 Resp: 5679
Ion Ratio Lower Upper
75 100
110 11.8 17.1 51.2#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 1.223 ug/l
RT: 6.984 min Scan# 847
Delta R.T. -0.079 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

Tgt Ion: 43 Resp: 716
Ion Ratio Lower Upper
43 100
61 0.0 9.7 14.5#
70 0.0 7.1 10.7#

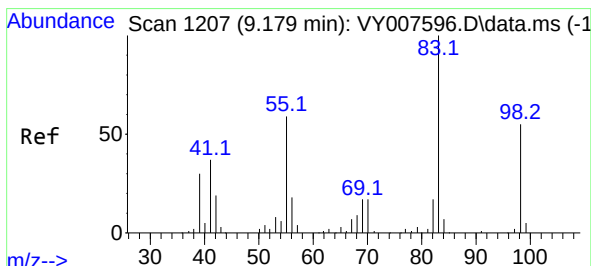
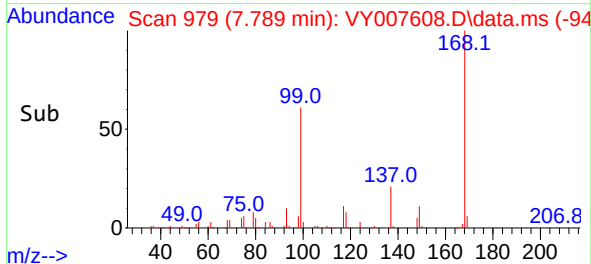
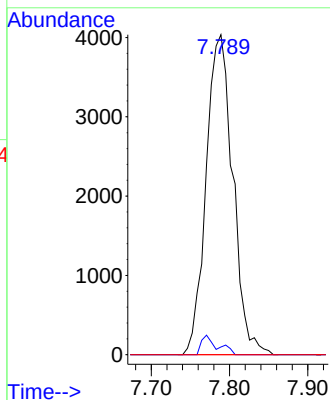
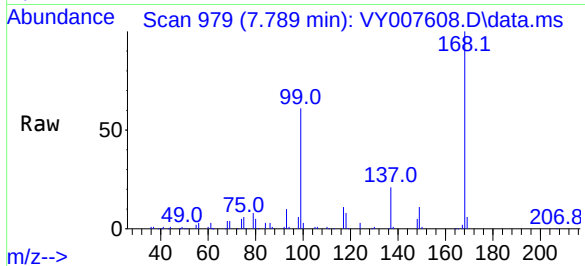




#38
Carbon Tetrachloride
Concen: 5.018 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

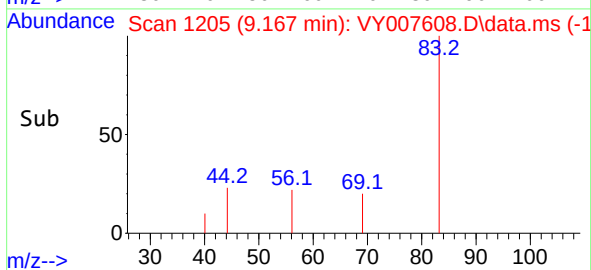
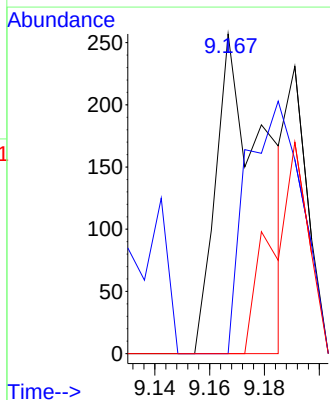
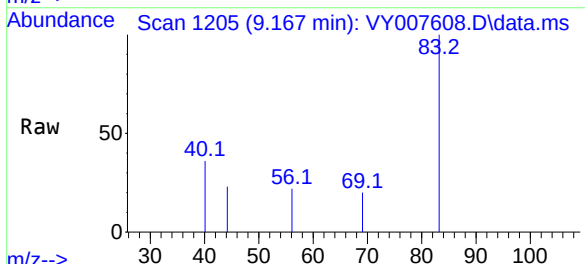
Instrument :
MSVOA_Y
ClientSampleId :
D13-12.5

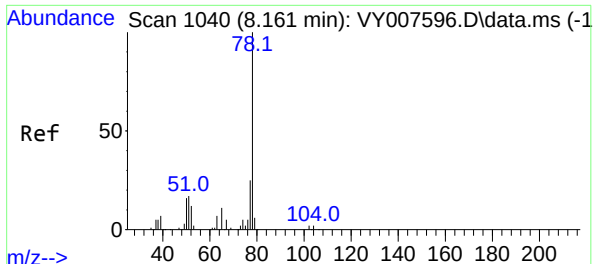
Tgt Ion:117 Resp: 9559
Ion Ratio Lower Upper
117 100
119 2.4 77.9 116.9#
121 0.0 24.8 37.2#



#39
Methylcyclohexane
Concen: Below Cal
RT: 9.167 min Scan# 1205
Delta R.T. -0.012 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

Tgt Ion: 83 Resp: 313
Ion Ratio Lower Upper
83 100
55 0.0 66.5 99.7#
98 0.0 37.9 56.9#

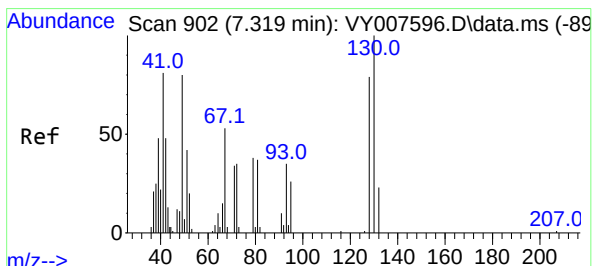
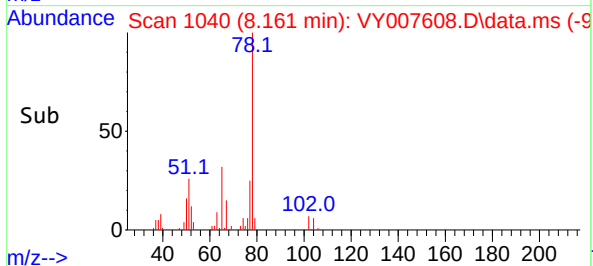
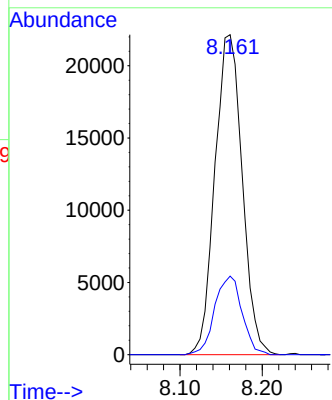
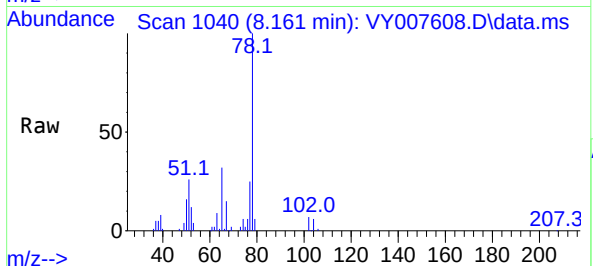




#40
Benzene
Concen: 13.778 ug/l
RT: 8.161 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

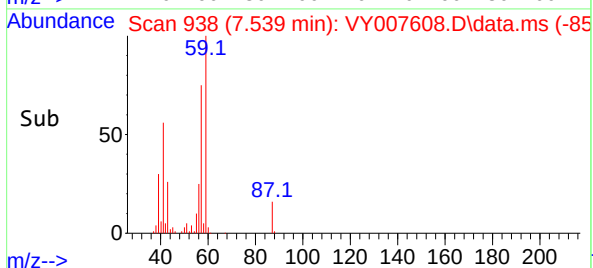
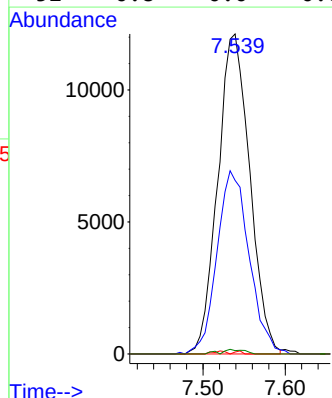
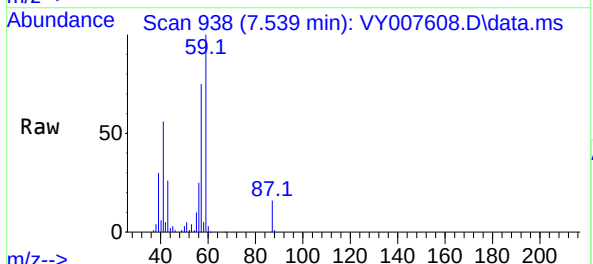
Instrument :
MSVOA_Y
ClientSampleId :
D13-12.5

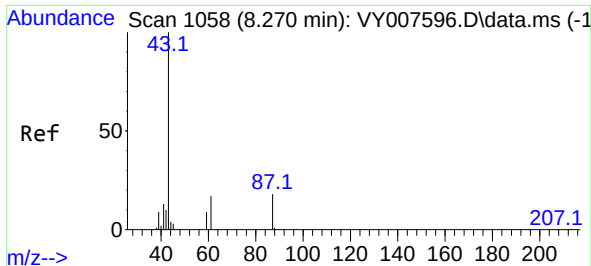
Tgt Ion: 78 Resp: 51131
Ion Ratio Lower Upper
78 100
77 24.6 20.4 30.6



#41
Methacrylonitrile
Concen: 101.622 ug/l
RT: 7.539 min Scan# 938
Delta R.T. 0.220 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

Tgt Ion: 41 Resp: 32819
Ion Ratio Lower Upper
41 100
39 57.5 92.9 139.3#
67 0.2 0.0 0.0#
52 0.8 0.0 0.0#

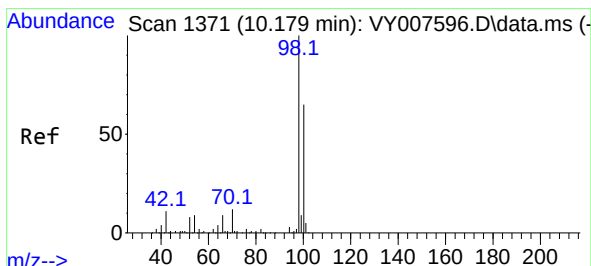
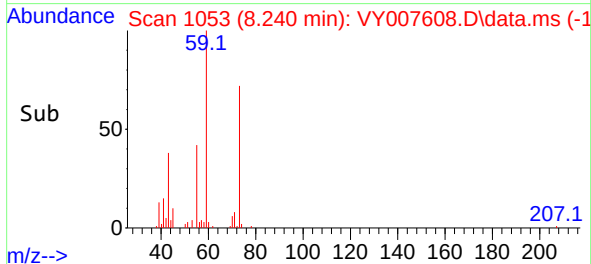
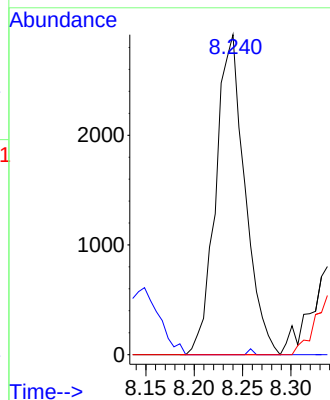
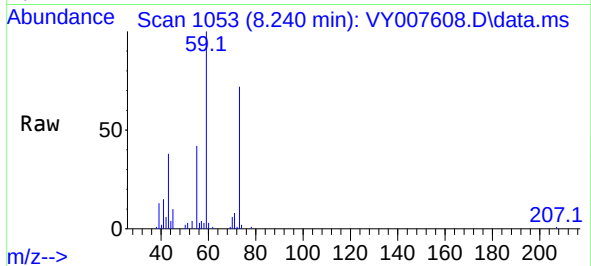




#43
Isopropyl Acetate
Concen: 5.107 ug/l
RT: 8.240 min Scan# 1053
Delta R.T. -0.030 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

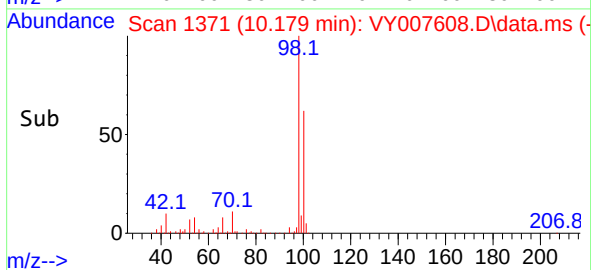
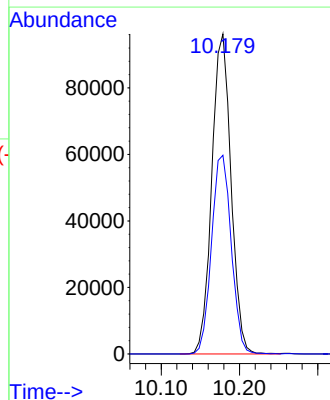
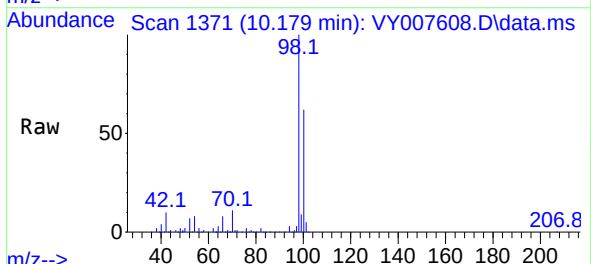
Instrument :
MSVOA_Y
ClientSampleId :
D13-12.5

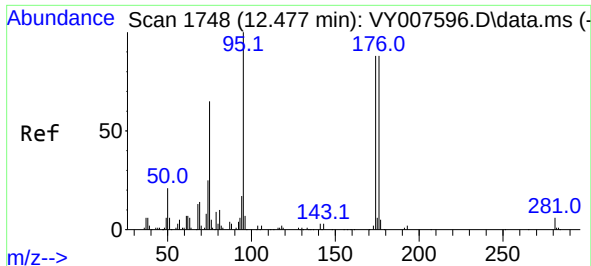
Tgt Ion: 43 Resp: 6109
Ion Ratio Lower Upper
43 100
61 0.0 20.2 30.2#
87 0.0 8.9 13.3#



#50
Toluene-d8
Concen: 49.136 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

Tgt Ion: 98 Resp: 163853
Ion Ratio Lower Upper
98 100
100 63.8 50.2 75.2



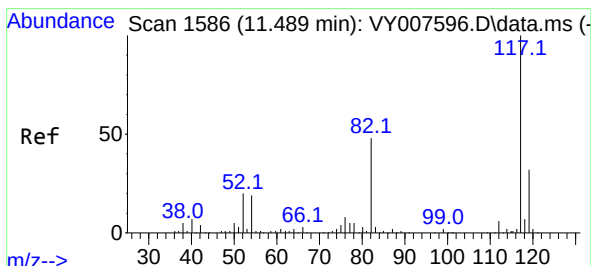
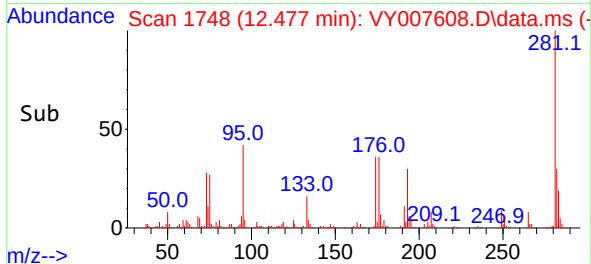
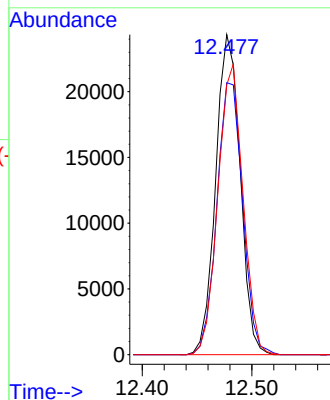
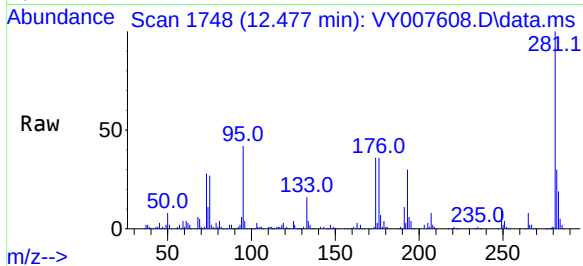


#62
4-Bromofluorobenzene
Concen: 33.093 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

Instrument :
MSVOA_Y
ClientSampleId :
D13-12.5

Tgt Ion: 95 Resp: 37770

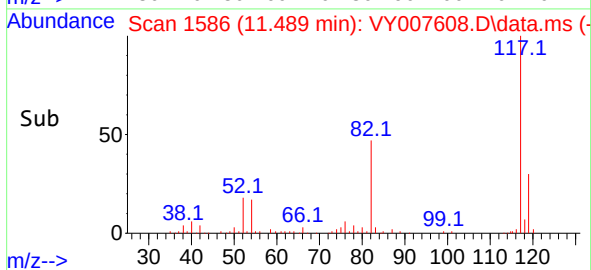
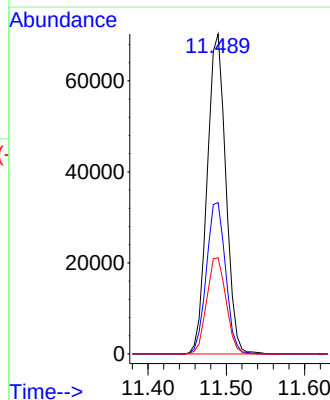
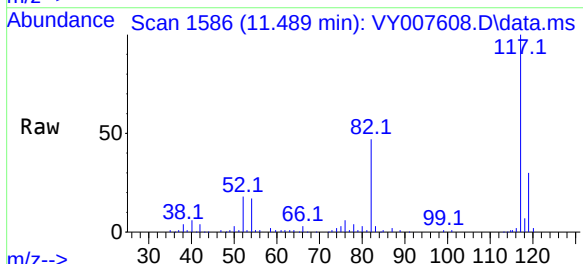
Ion	Ratio	Lower	Upper
95	100		
174	89.6	0.0	177.0
176	92.6	0.0	175.8

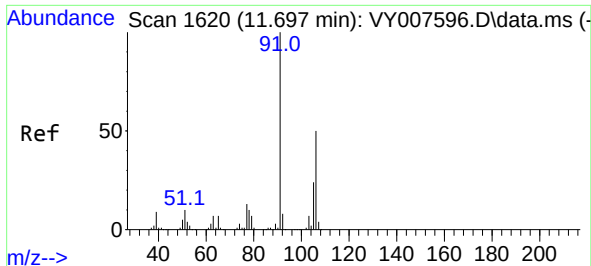


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

Tgt Ion: 117 Resp: 115923

Ion	Ratio	Lower	Upper
117	100		
82	47.3	43.0	64.4
119	30.1	25.4	38.0

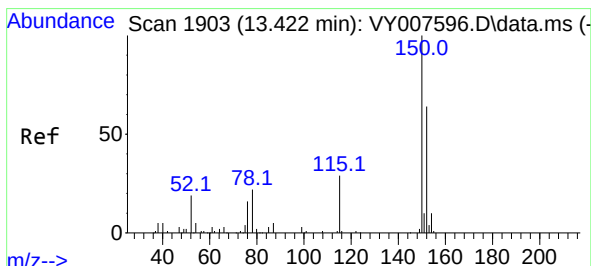
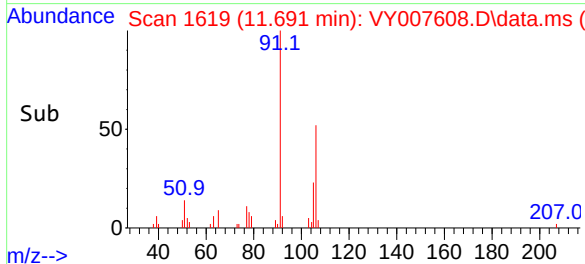
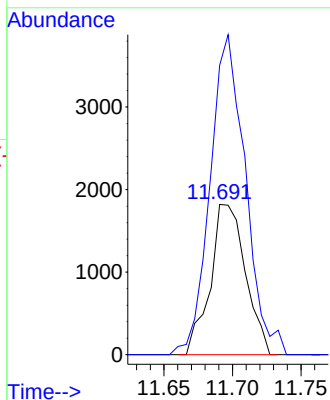
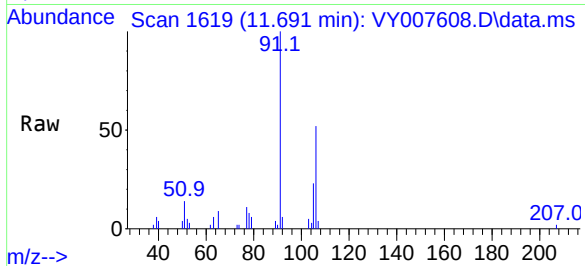




#68
m/p-Xylenes
Concen: 1.959 ug/l
RT: 11.691 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

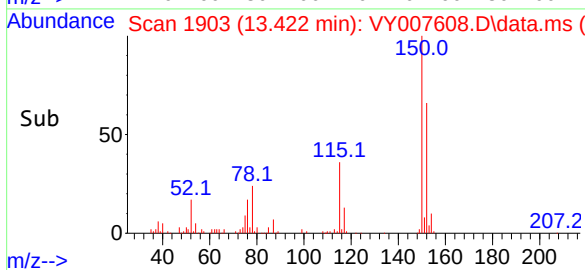
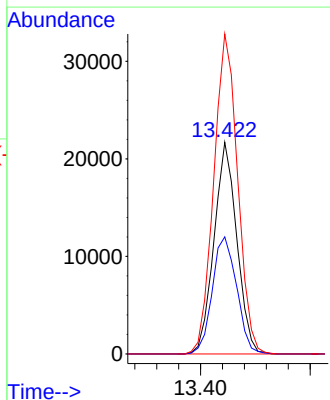
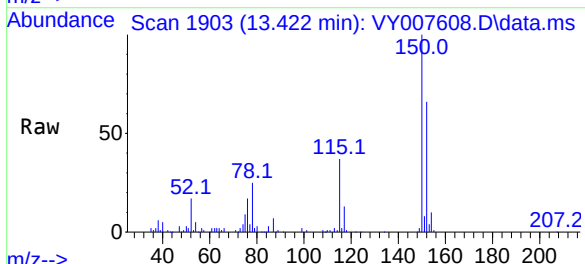
Instrument :
MSVOA_Y
ClientSampleId :
D13-12.5

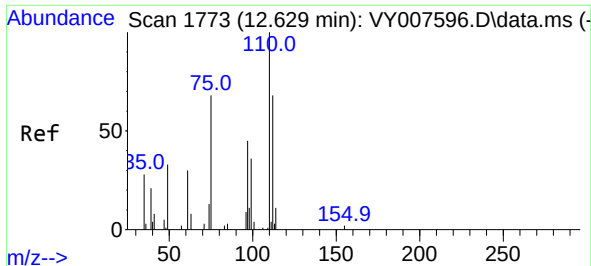
Tgt Ion:106 Resp: 3251
Ion Ratio Lower Upper
106 100
91 214.0 166.6 249.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

Tgt Ion:152 Resp: 31424
Ion Ratio Lower Upper
152 100
115 59.0 28.2 84.7
150 158.1 0.0 347.6

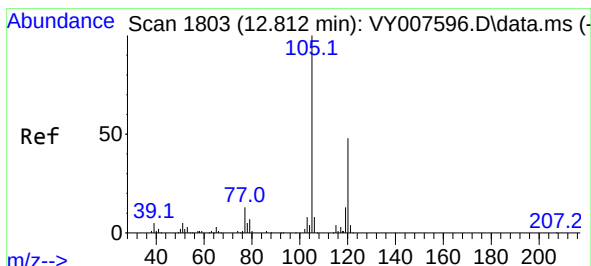
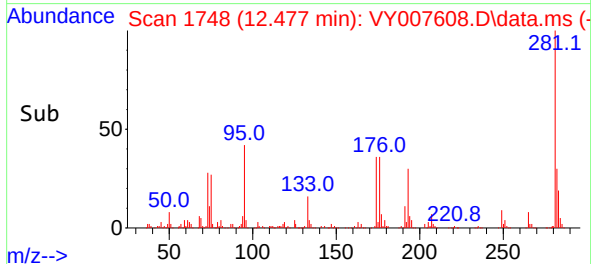
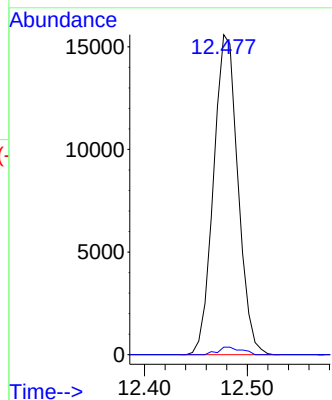
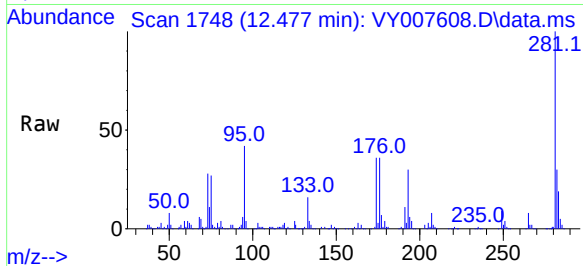




#76
1,2,3-Trichloropropane
Concen: 81.887 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.152 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

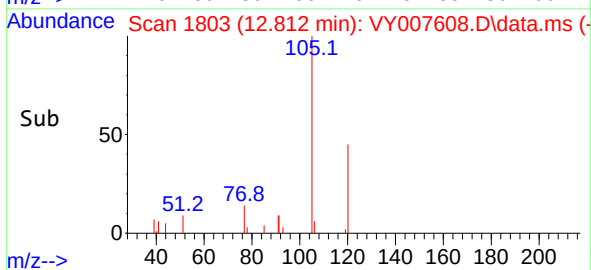
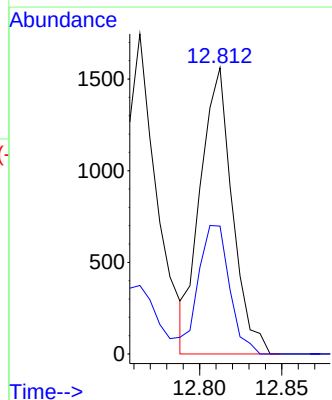
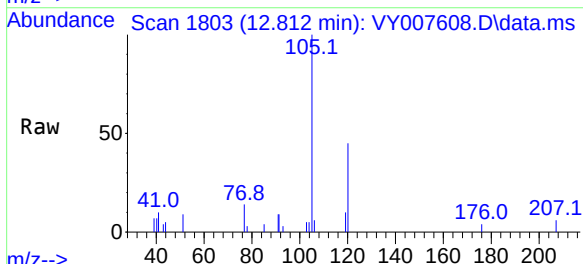
Instrument :
MSVOA_Y
ClientSampleId :
D13-12.5

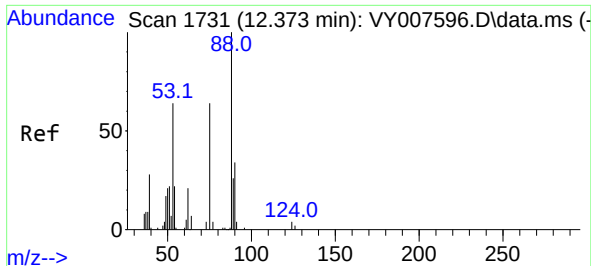
Tgt Ion: 75 Resp: 25736
Ion Ratio Lower Upper
75 100
77 2.3 0.0 0.0#



#80
1,3,5-Trimethylbenzene
Concen: 1.025 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

Tgt Ion:105 Resp: 2110
Ion Ratio Lower Upper
105 100
120 44.9 24.4 73.4

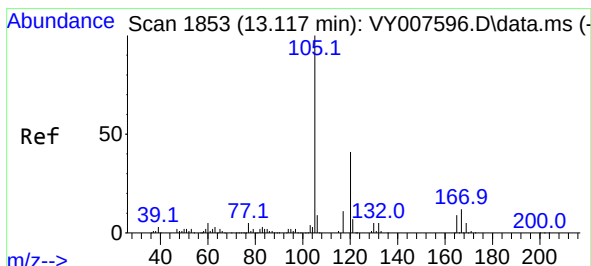
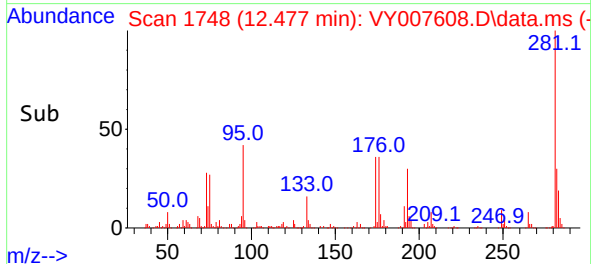
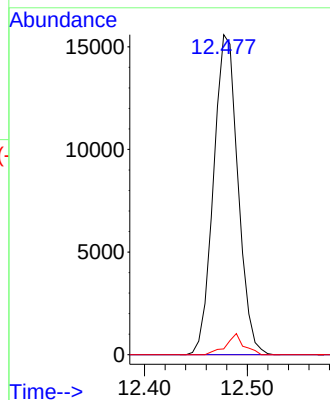
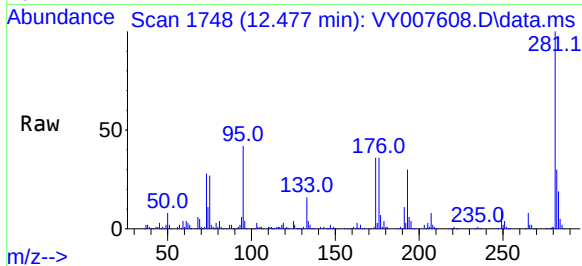




#81
trans-1,4-Dichloro-2-butene
Concen: 176.071 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.104 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

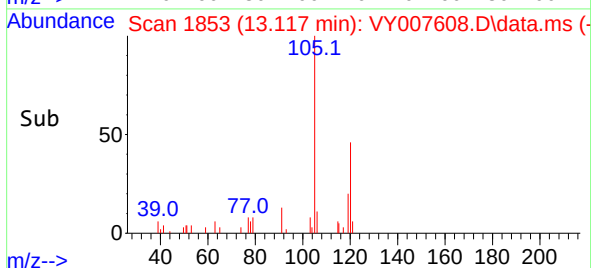
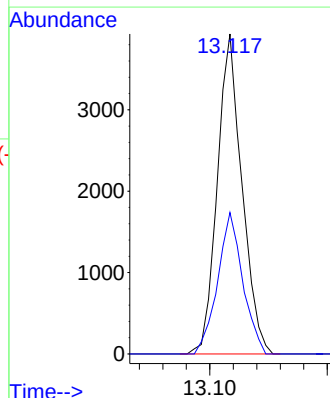
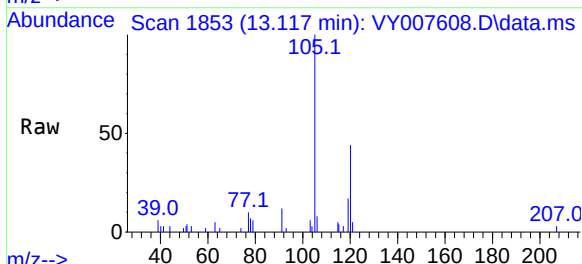
Instrument :
MSVOA_Y
ClientSampleId :
D13-12.5

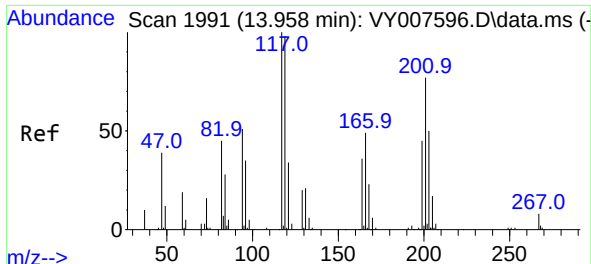
Tgt Ion: 75 Resp: 25736
Ion Ratio Lower Upper
75 100
53 0.0 85.3 127.9#
89 4.7 37.0 55.4#



#84
1,2,4-Trimethylbenzene
Concen: 2.837 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

Tgt Ion: 105 Resp: 5725
Ion Ratio Lower Upper
105 100
120 44.9 22.3 66.9

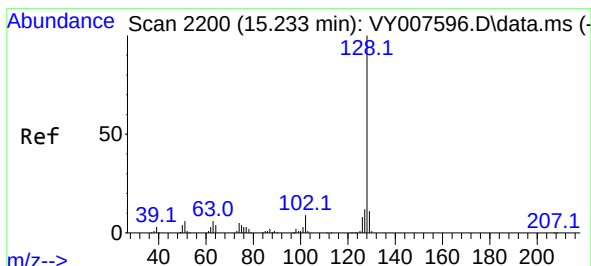
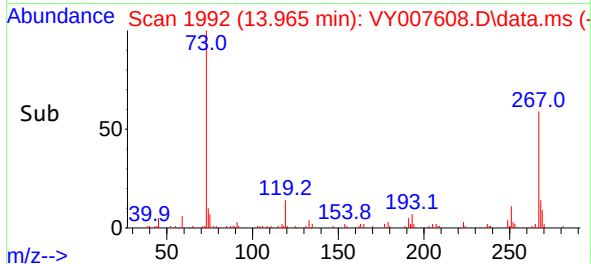
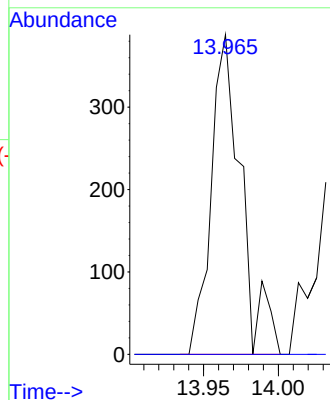
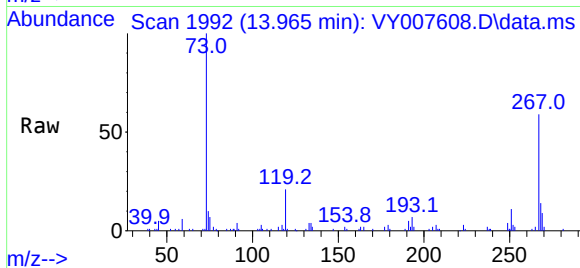




#90
Hexachloroethane
Concen: 1.208 ug/l
RT: 13.965 min Scan# 1991
Delta R.T. 0.007 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

Instrument :
MSVOA_Y
ClientSampleId :
D13-12.5

Tgt Ion:117 Resp: 544
Ion Ratio Lower Upper
117 100
201 0.0 43.0 128.8#



#95
Naphthalene
Concen: 1.455 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.000 min
Lab File: VY007608.D
Acq: 23 Feb 2022 19:16

Tgt Ion:128 Resp: 2319
Ion Ratio Lower Upper
128 100
127 15.2 11.0 16.4
129 11.3 8.4 12.6

