

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051723\
 Data File : VY013781.D
 Acq On : 17 May 2023 17:13
 Operator : KP/MD
 Sample : 02812-01
 Misc : 6.39g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WG-0516-B5-0-2

Quant Time: May 18 07:16:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051723S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 18 06:54:18 2023
 Response via : Initial Calibration

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

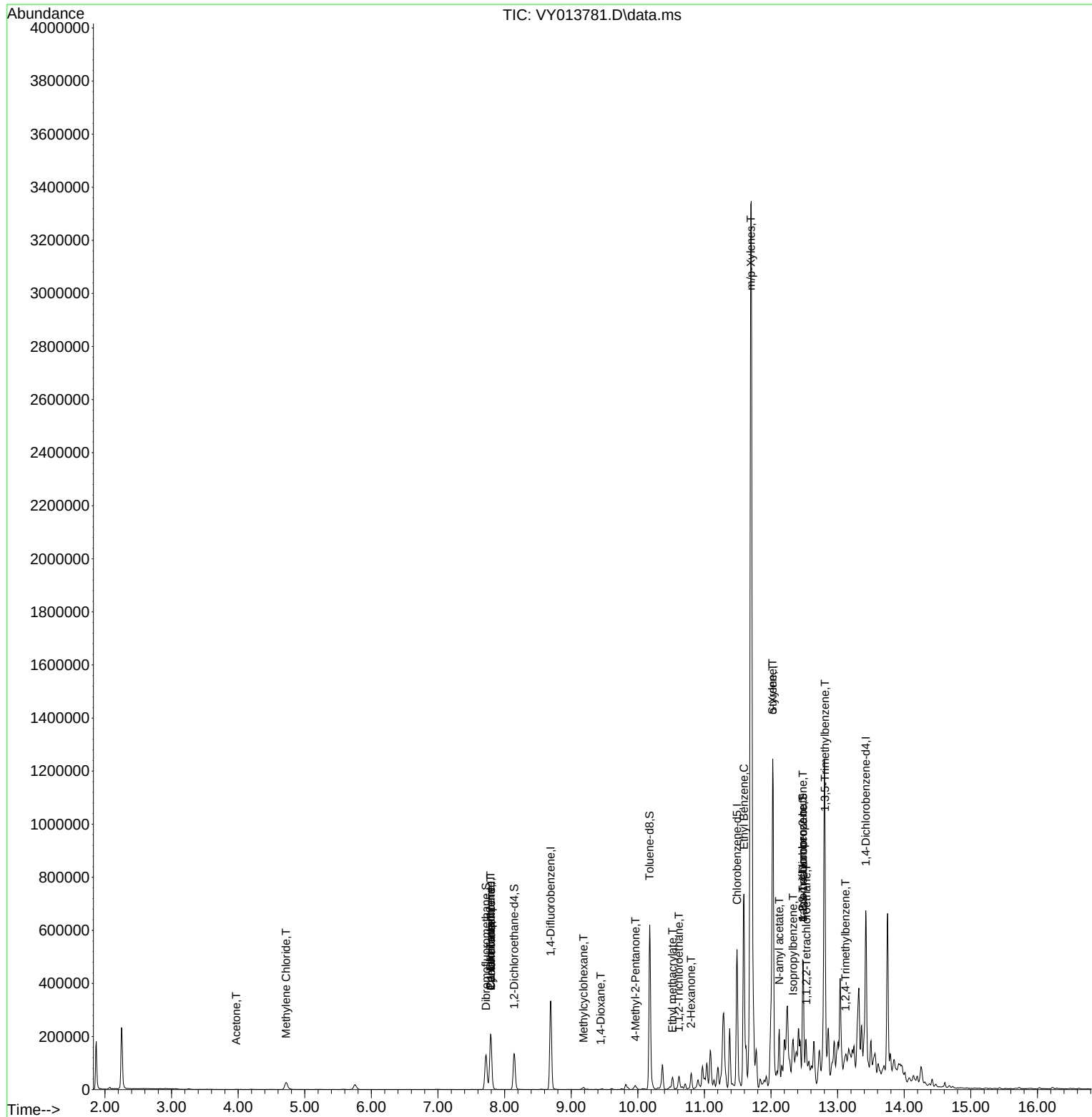
Internal Standards						
1) Pentafluorobenzene	7.795	168	158750	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	271181	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	272145	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	123013	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	107164	58.110	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery	= 116.220%		
35) Dibromofluoromethane	7.722	113	91197	52.443	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery	= 104.880%		
50) Toluene-d8	10.179	98	346537	52.564	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery	= 105.120%		
62) 4-Bromofluorobenzene	12.477	95	121844	55.642	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery	= 111.280%		
Target Compounds						
					Qvalue	
16) Acetone	3.973	43	683	1.228	ug/l	98
20) Methylene Chloride	4.716	84	18150	5.339	ug/l	94
31) Cyclohexane	7.795	56	4411	1.668	ug/l #	41
36) 1,1-Dichloropropene	7.789	75	13114	5.458	ug/l #	50
38) Carbon Tetrachloride	7.789	117	16039	6.328	ug/l #	15
39) Methylcyclohexane	9.185	83	2967	1.086	ug/l #	84
49) 1,4-Dioxane	9.441	88	46	3.488	ug/l #	1
51) 4-Methyl-2-Pentanone	9.965	43	6379	3.819	ug/l #	46
55) 1,1,2-Trichloroethane	10.618	97	15741	10.770	ug/l #	19
56) Ethyl methacrylate	10.520	69	4297	2.203	ug/l #	1
59) 2-Hexanone	10.801	43	23091	19.446	ug/l #	32
67) Ethyl Benzene	11.593	91	473384	51.717	ug/l	99
68) m/p-Xylenes	11.697	106	875358	255.328	ug/l	100
69) o-Xylene	12.026	106	281479	86.309	ug/l	99
70) Styrene	12.026	104	14733	2.660	ug/l #	1
73) Isopropylbenzene	12.331	105	12275	1.474	ug/l	92
74) N-amyl acetate	12.124	43	42811	15.148	ug/l #	62
75) 1,1,2,2-Tetrachloroethane	12.532	83	7026	3.561	ug/l #	71
76) 1,2,3-Trichloropropane	12.477	75	66843	44.898	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.812	105	9369	1.380	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.477	75	66843	99.959	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.117	105	17084	2.567	ug/l	100

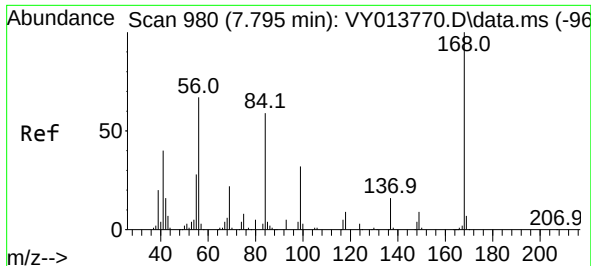
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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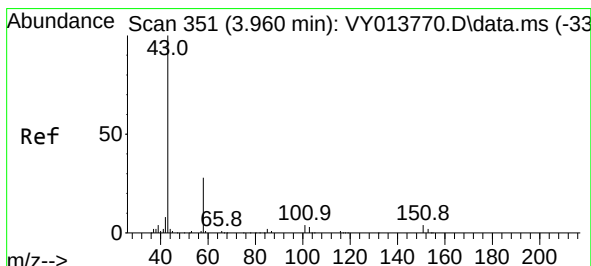
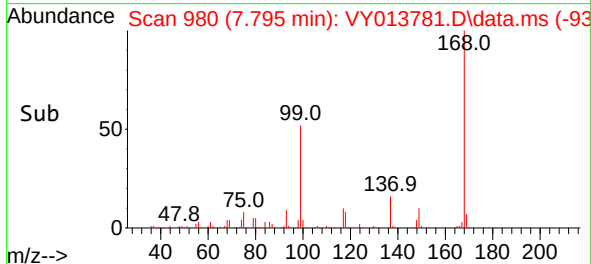
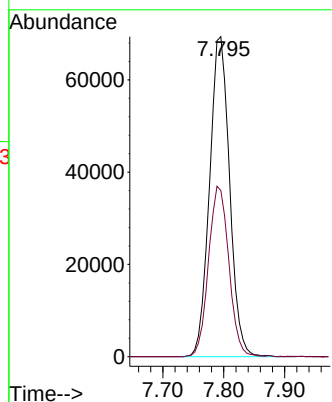
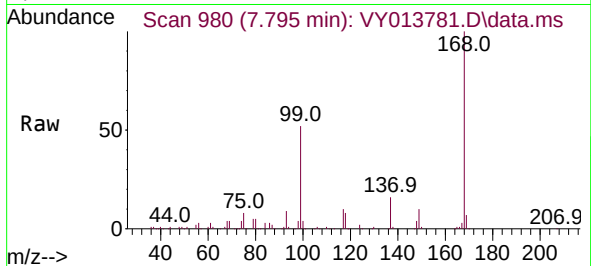




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

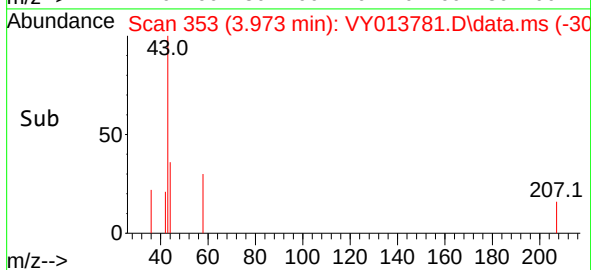
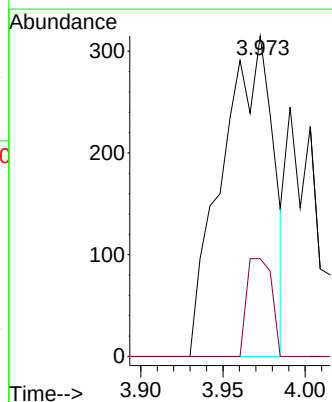
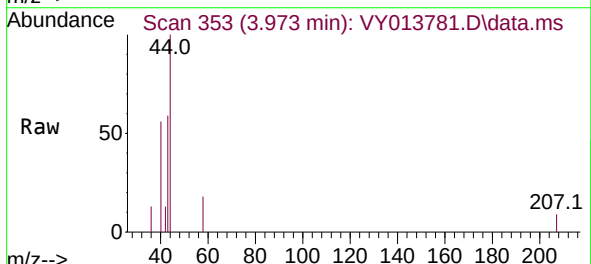
Instrument :
MSVOA_Y
ClientSampleId :
WG-0516-B5-0-2

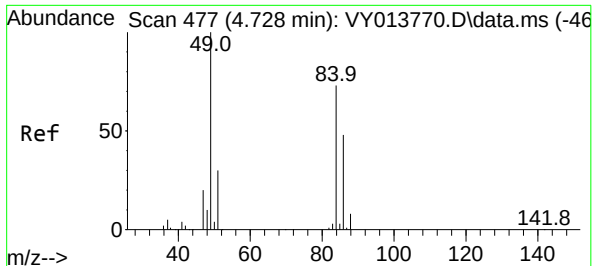
Tgt Ion:168 Resp: 158750
Ion Ratio Lower Upper
168 100
99 51.9 44.0 66.0



#16
Acetone
Concen: 1.228 ug/l
RT: 3.973 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

Tgt Ion: 43 Resp: 683
Ion Ratio Lower Upper
43 100
58 30.5 23.7 35.5

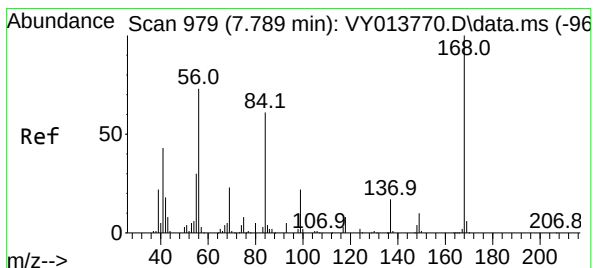
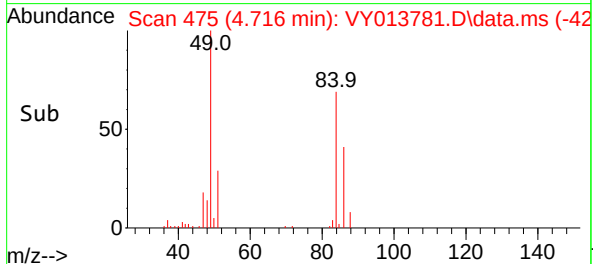
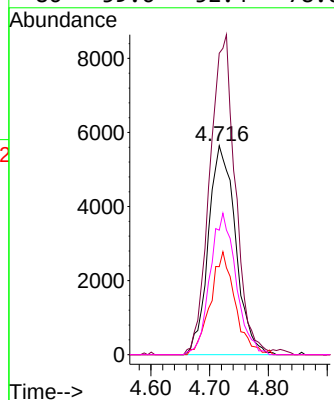
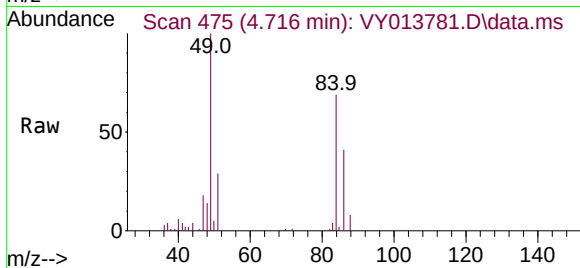




#20
Methylene Chloride
Concen: 5.339 ug/l
RT: 4.716 min Scan# 41
Delta R.T. -0.012 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

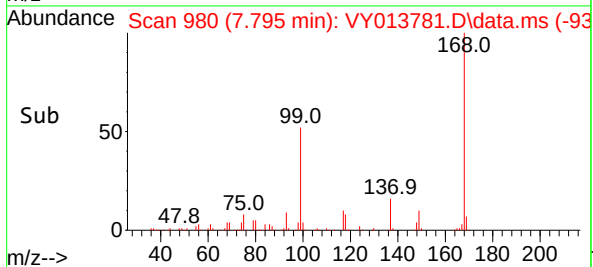
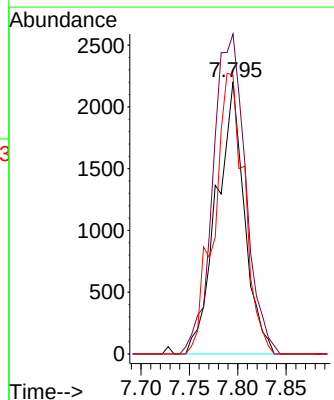
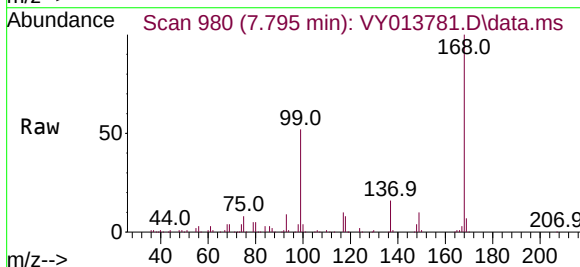
Instrument :
MSVOA_Y
ClientSampleId :
WG-0516-B5-0-2

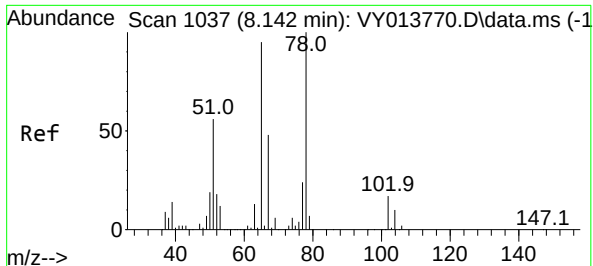
Tgt Ion:	84	Resp:	18150
Ion	Ratio	Lower	Upper
84	100		
49	144.2	109.4	164.0
51	42.1	32.8	49.2
86	59.6	52.4	78.6



#31
Cyclohexane
Concen: 1.668 ug/l
RT: 7.795 min Scan# 980
Delta R.T. 0.006 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

Tgt Ion:	56	Resp:	4411
Ion	Ratio	Lower	Upper
56	100		
69	117.6	25.8	38.6#
84	102.5	65.8	98.6#





#33

1,2-Dichloroethane-d4

Concen: 58.110 ug/l

RT: 8.143 min Scan# 1037

Delta R.T. 0.000 min

Lab File: VY013781.D

Acq: 17 May 2023 17:13

Instrument :

MSVOA_Y

ClientSampleId :

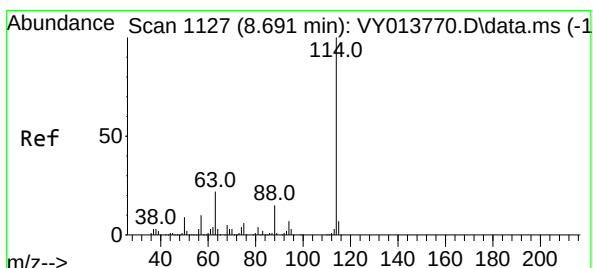
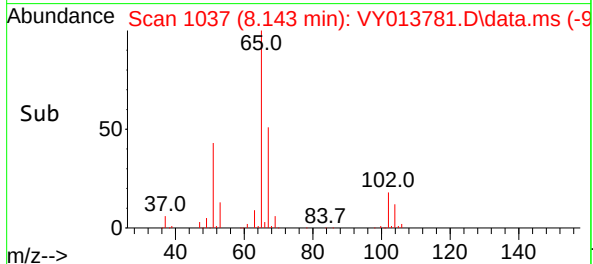
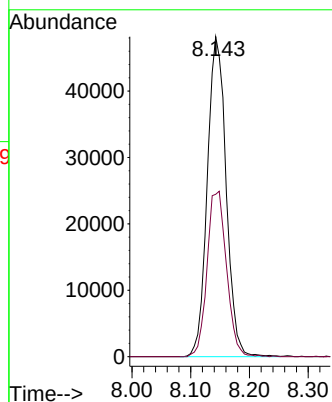
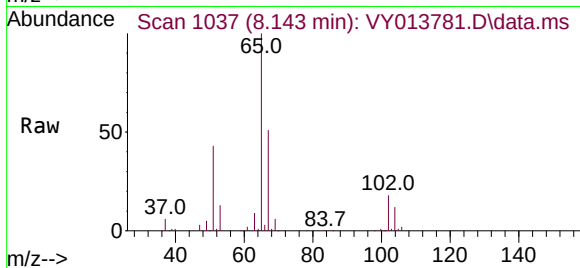
WG-0516-B5-0-2

Tgt Ion: 65 Resp: 107164

Ion Ratio Lower Upper

65 100

67 53.4 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY013781.D

Acq: 17 May 2023 17:13

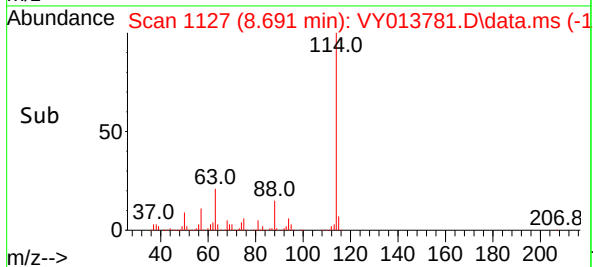
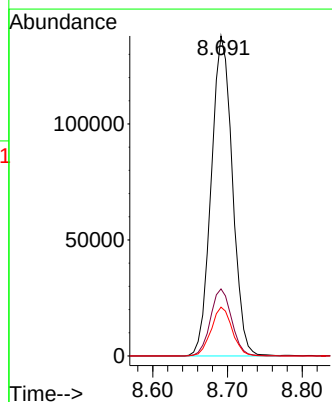
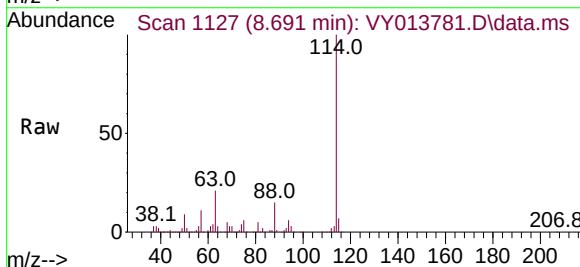
Tgt Ion: 114 Resp: 271181

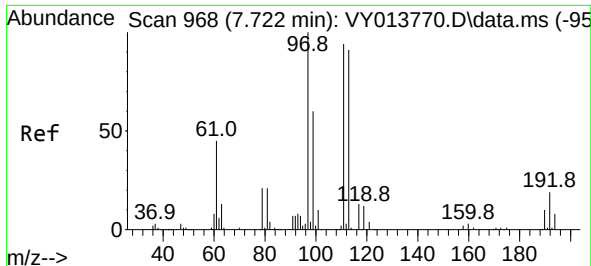
Ion Ratio Lower Upper

114 100

63 20.9 0.0 43.8

88 15.2 0.0 30.8

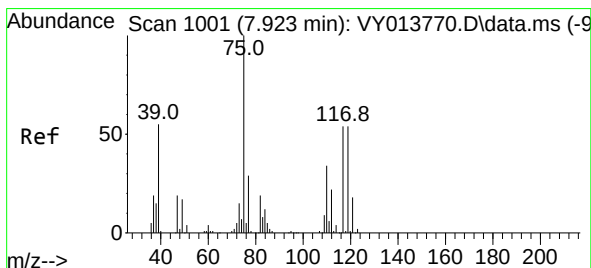
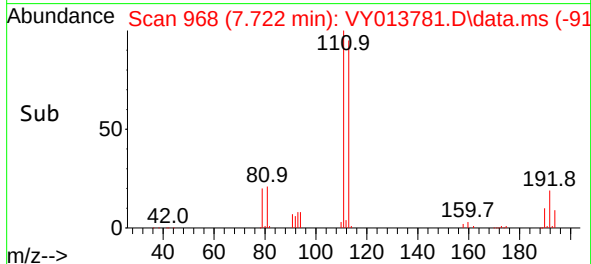
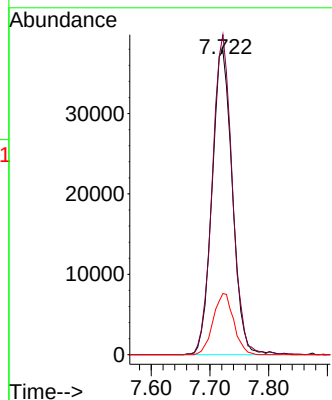
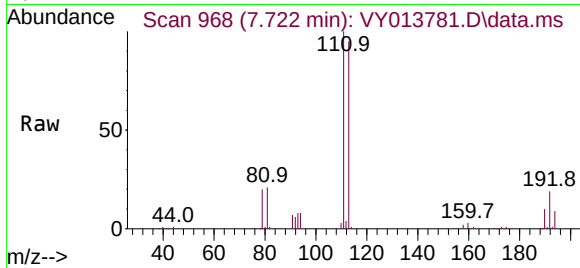




#35
Dibromofluoromethane
Concen: 52.443 ug/l
RT: 7.722 min Scan# 911
Delta R.T. 0.000 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

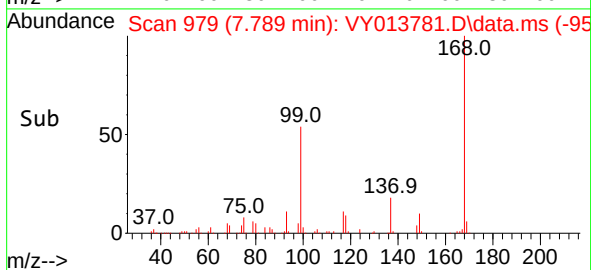
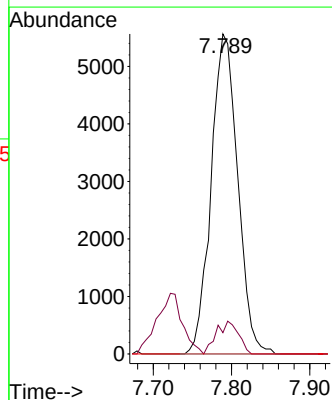
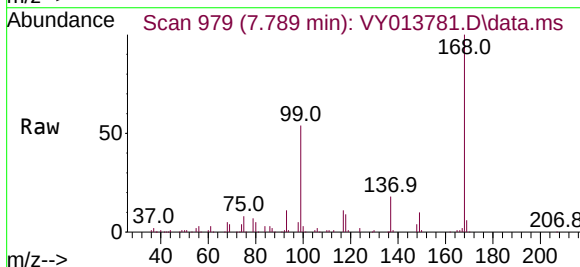
Instrument :
MSVOA_Y
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WG-0516-B5-0-2

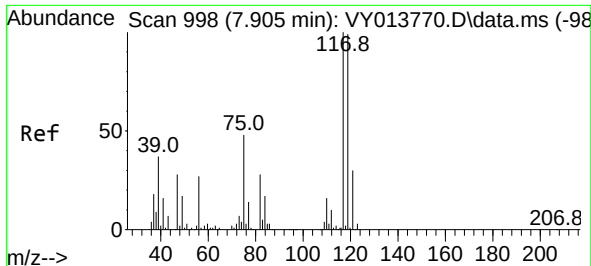
Tgt Ion:113 Resp: 91197
Ion Ratio Lower Upper
113 100
111 102.8 82.3 123.5
192 20.2 16.0 24.0



#36
1,1-Dichloropropene
Concen: 5.458 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.134 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

Tgt Ion: 75 Resp: 13114
Ion Ratio Lower Upper
75 100
110 8.5 17.3 51.7#
77 0.0 24.6 36.8#

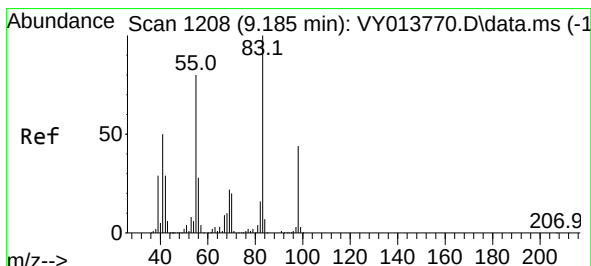
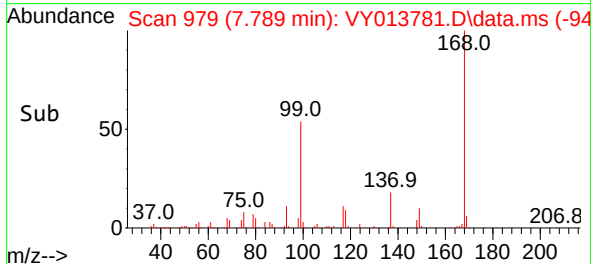
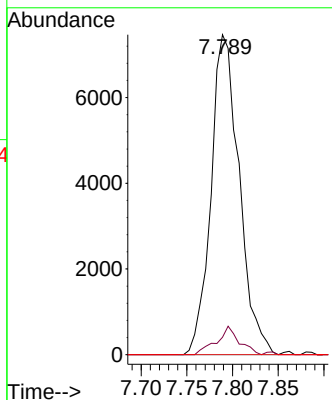
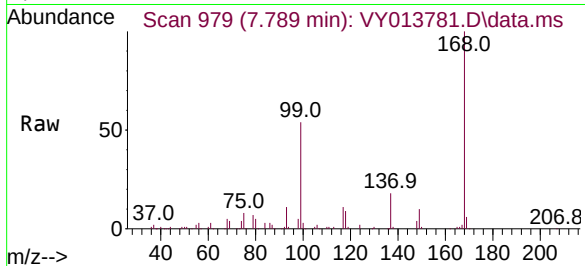




#38
Carbon Tetrachloride
Concen: 6.328 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

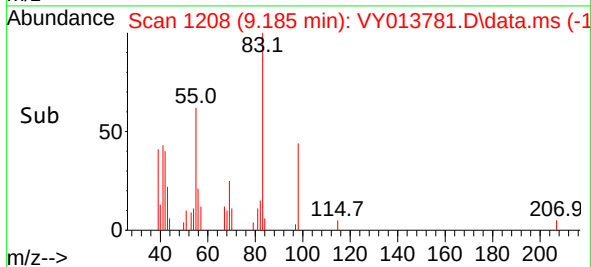
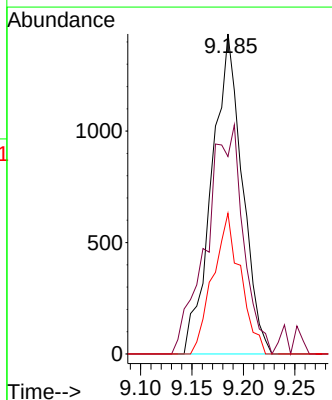
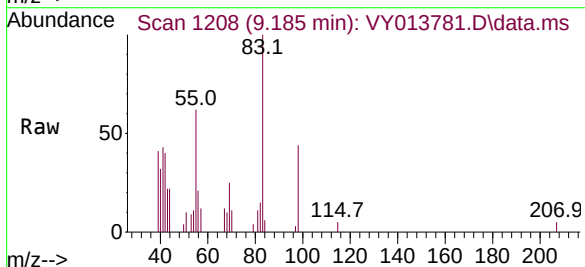
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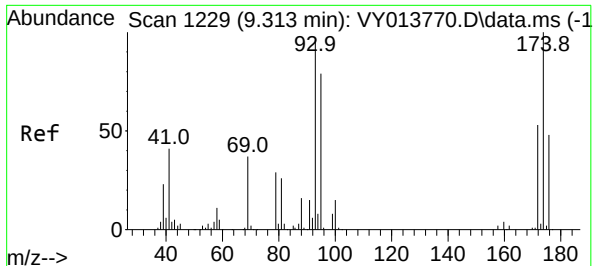
Tgt Ion:117 Resp: 16039
Ion Ratio Lower Upper
117 100
119 5.4 79.0 118.6#
121 0.0 24.1 36.1#



#39
Methylcyclohexane
Concen: 1.086 ug/l
RT: 9.185 min Scan# 1208
Delta R.T. 0.000 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

Tgt Ion: 83 Resp: 2967
Ion Ratio Lower Upper
83 100
55 58.1 63.7 95.5#
98 43.9 35.0 52.6





#49

1,4-Dioxane

Concen: 3.488 ug/l

RT: 9.441 min Scan# 1229

Delta R.T. 0.128 min

Lab File: VY013781.D

Acq: 17 May 2023 17:13

Instrument :

MSVOA_Y

ClientSampleId :

WG-0516-B5-0-2

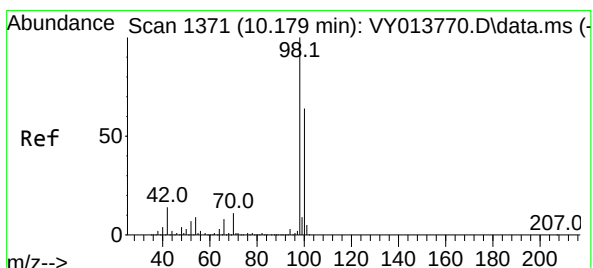
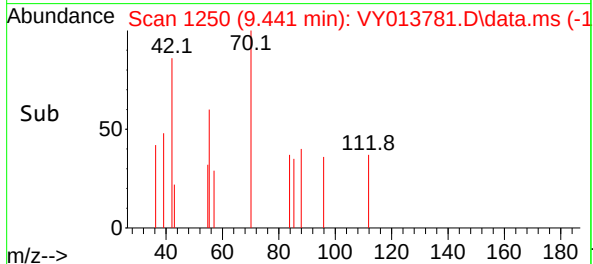
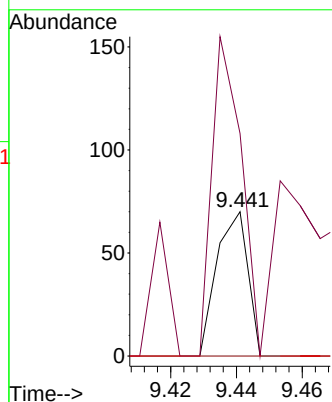
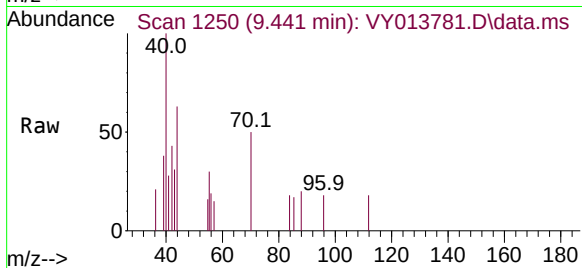
Tgt Ion: 88 Resp: 46

Ion Ratio Lower Upper

88 100

43 208.7 26.1 39.1#

58 0.0 62.2 93.2#



#50

Toluene-d8

Concen: 52.564 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. 0.000 min

Lab File: VY013781.D

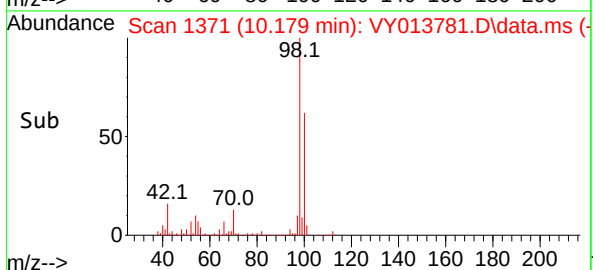
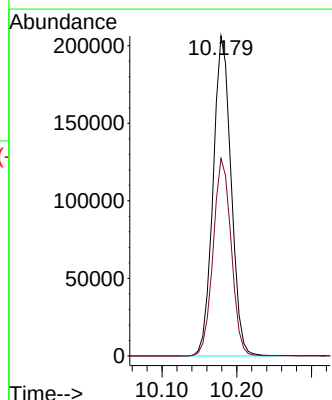
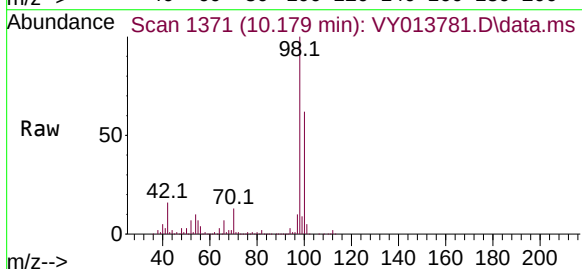
Acq: 17 May 2023 17:13

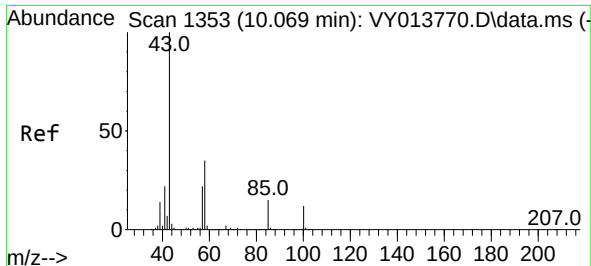
Tgt Ion: 98 Resp: 346537

Ion Ratio Lower Upper

98 100

100 61.8 51.0 76.6

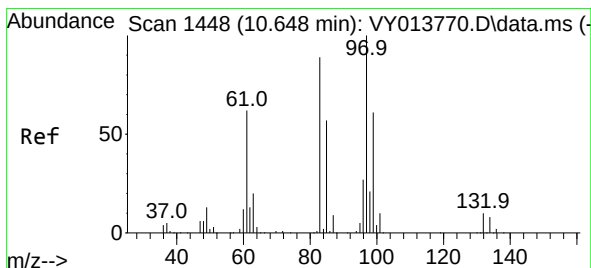
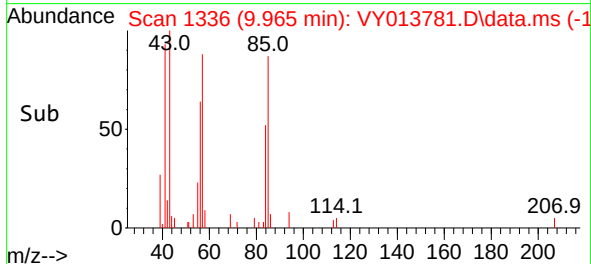
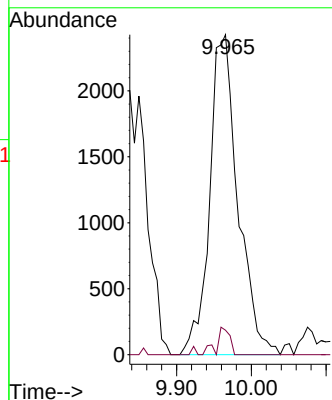
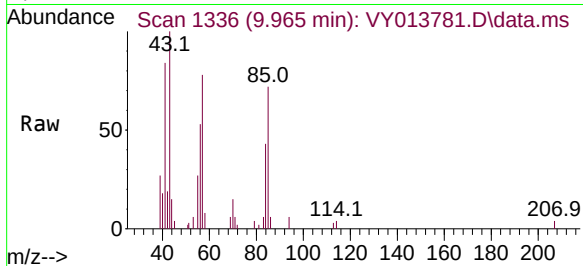




#51
4-Methyl-2-Pentanone
Concen: 3.819 ug/l
RT: 9.965 min Scan# 11
Delta R.T. -0.104 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

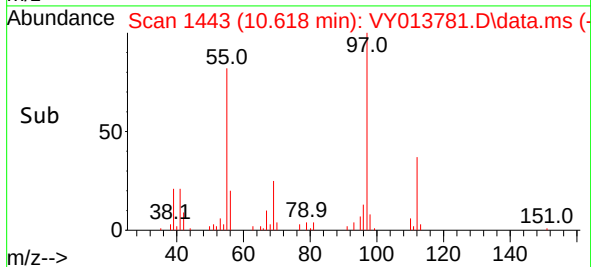
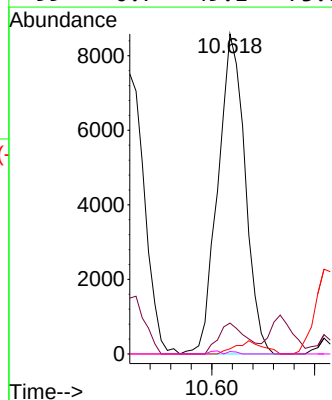
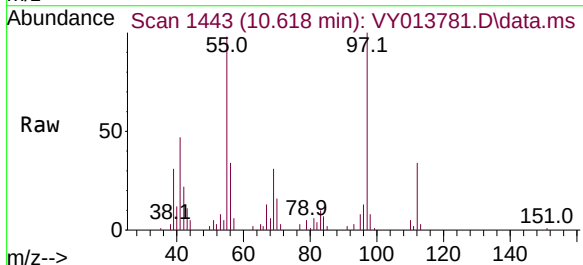
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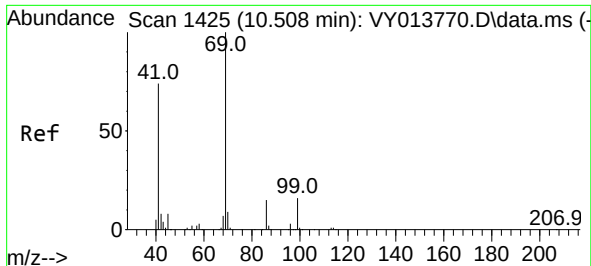
Tgt Ion: 43 Resp: 6379
Ion Ratio Lower Upper
43 100
58 3.9 28.2 42.2#



#55
1,1,2-Trichloroethane
Concen: 10.770 ug/l
RT: 10.618 min Scan# 1443
Delta R.T. -0.030 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

Tgt Ion: 97 Resp: 15741
Ion Ratio Lower Upper
97 100
83 9.6 71.1 106.7#
85 1.6 45.7 68.5#
99 0.7 49.1 73.7#

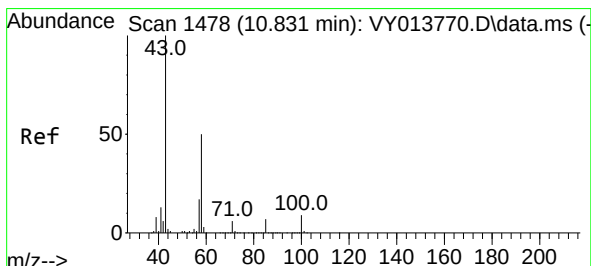
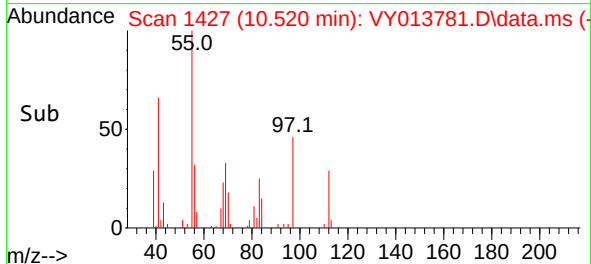
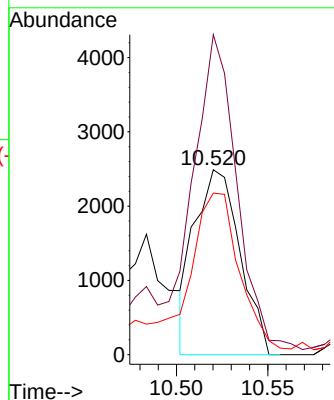
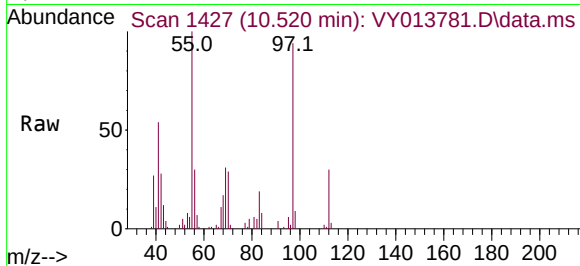




#56
Ethyl methacrylate
Concen: 2.203 ug/l
RT: 10.520 min Scan# 1427
Delta R.T. 0.012 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

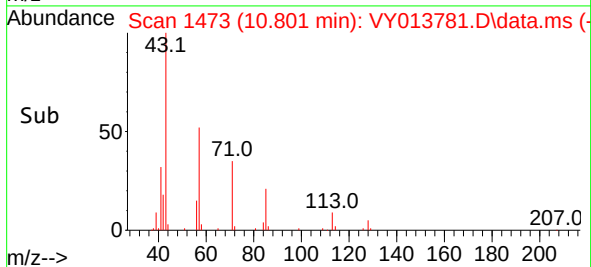
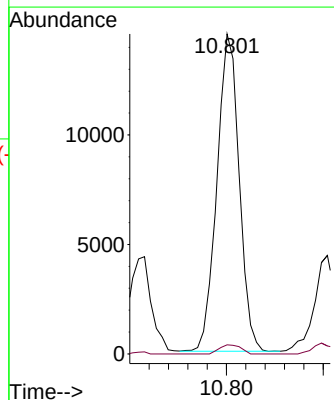
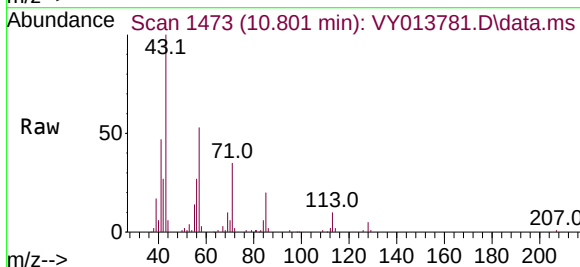
Instrument :
MSVOA_Y
ClientSampleId :
WG-0516-B5-0-2

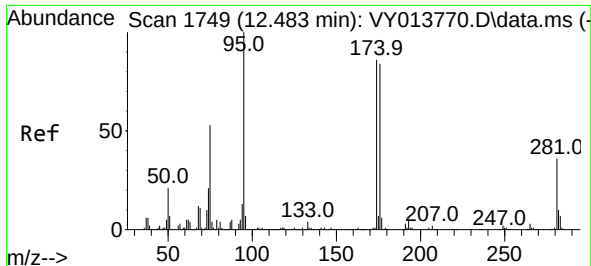
Tgt Ion: 69 Resp: 4297
Ion Ratio Lower Upper
69 100
41 165.7 58.3 87.5#
39 105.5 31.8 47.8#



#59
2-Hexanone
Concen: 19.446 ug/l
RT: 10.801 min Scan# 1473
Delta R.T. -0.030 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

Tgt Ion: 43 Resp: 23091
Ion Ratio Lower Upper
43 100
58 2.8 24.8 74.4#

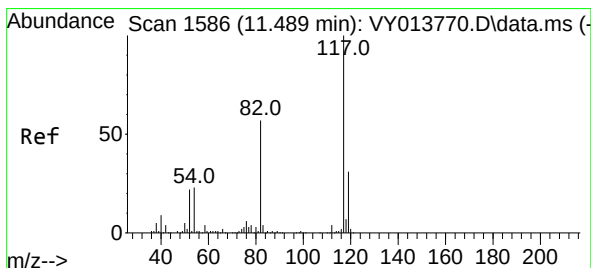
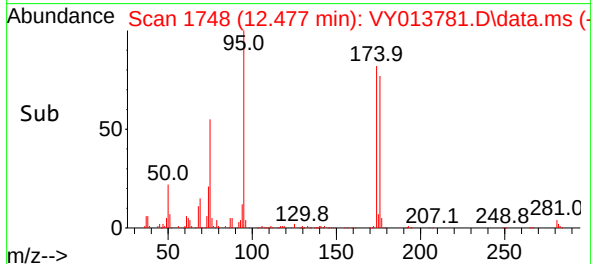
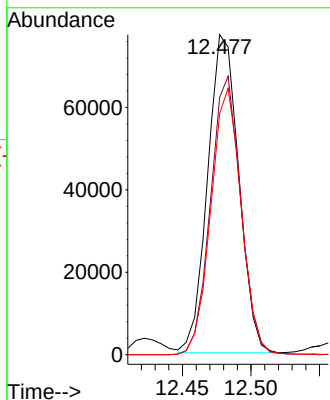
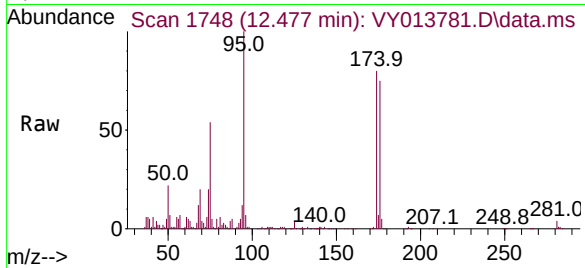




#62
4-Bromofluorobenzene
Concen: 55.642 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

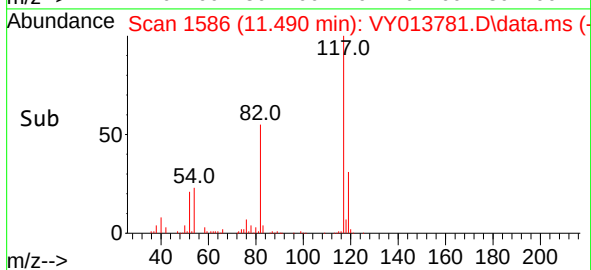
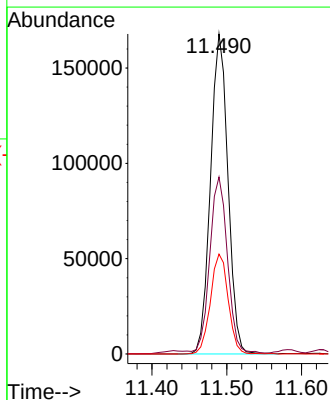
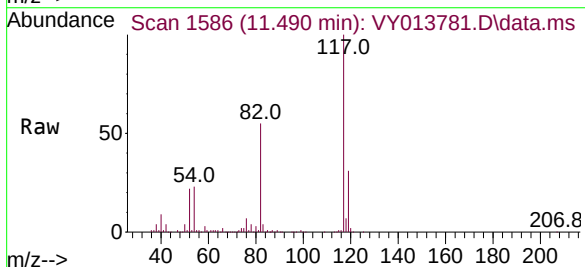
Instrument :
MSVOA_Y
ClientSampleId :
WG-0516-B5-0-2

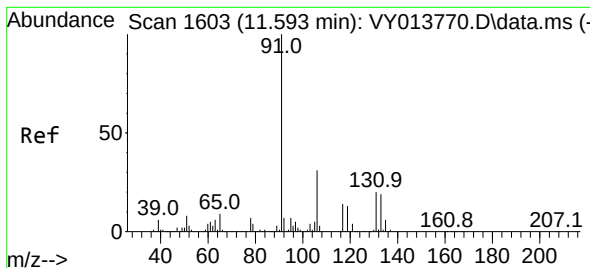
Tgt Ion: 95 Resp: 121844
Ion Ratio Lower Upper
95 100
174 85.2 0.0 168.8
176 81.9 0.0 165.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

Tgt Ion: 117 Resp: 272145
Ion Ratio Lower Upper
117 100
82 54.5 45.5 68.3
119 31.2 24.8 37.2

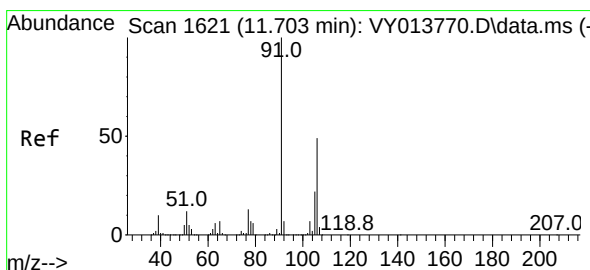
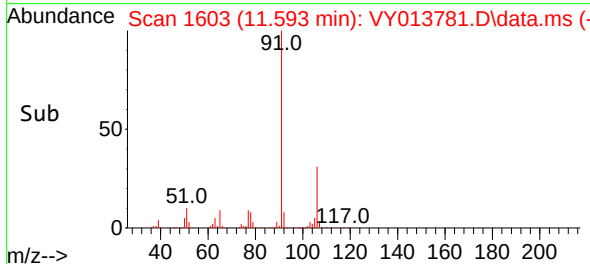
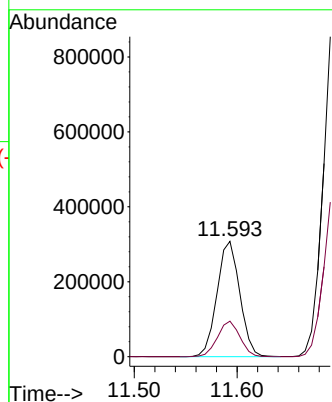
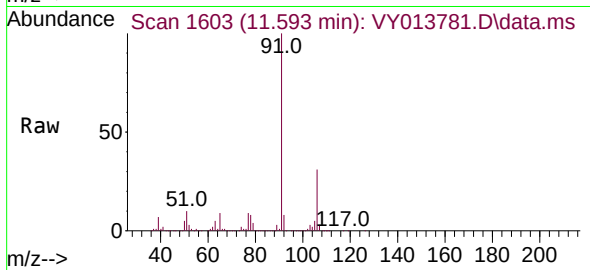




#67
Ethyl Benzene
Concen: 51.717 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. 0.000 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

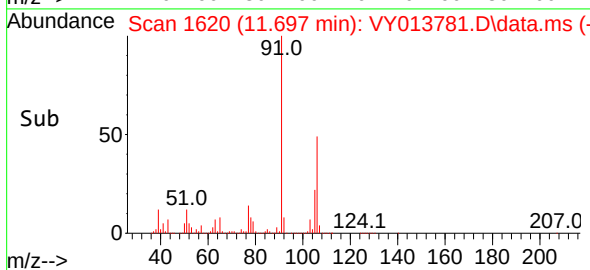
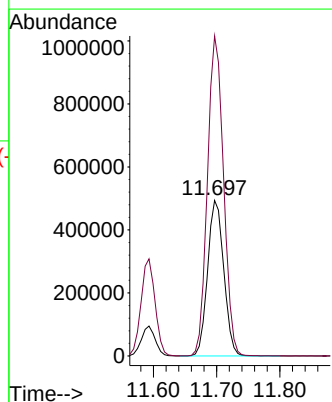
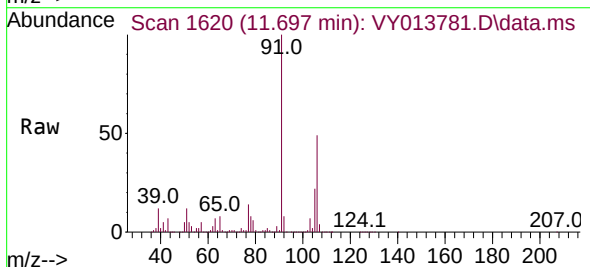
Instrument :
MSVOA_Y
ClientSampleId :
WG-0516-B5-0-2

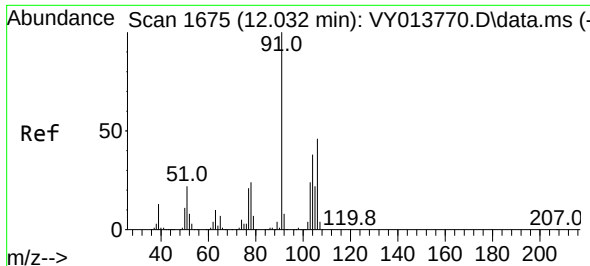
Tgt Ion: 91 Resp: 473384
Ion Ratio Lower Upper
91 100
106 30.8 25.0 37.6



#68
m/p-Xylenes
Concen: 255.328 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.006 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

Tgt Ion:106 Resp: 875358
Ion Ratio Lower Upper
106 100
91 205.6 164.0 246.0

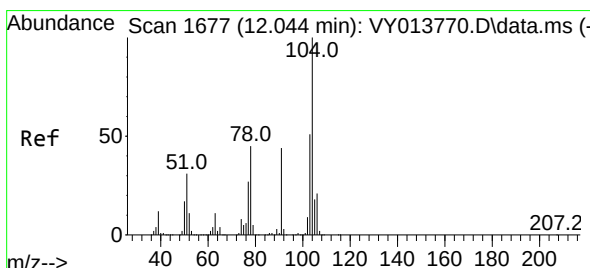
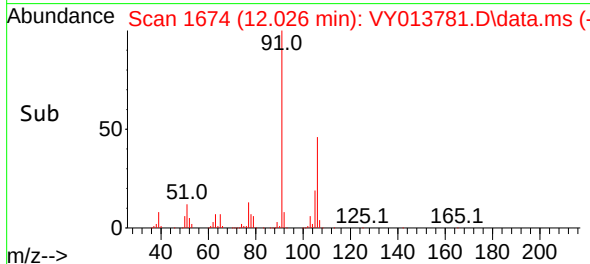
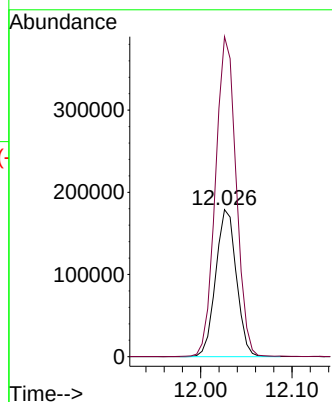
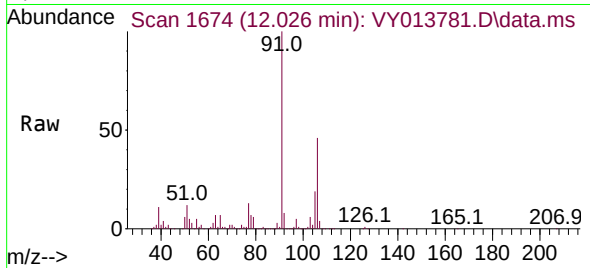




#69
o-Xylene
Concen: 86.309 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. -0.006 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

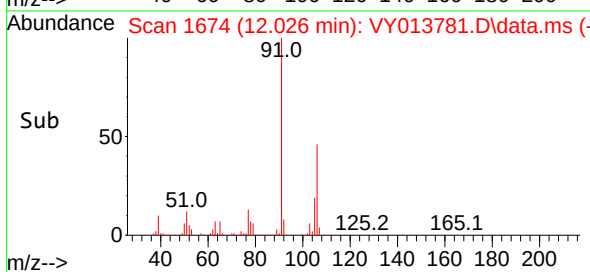
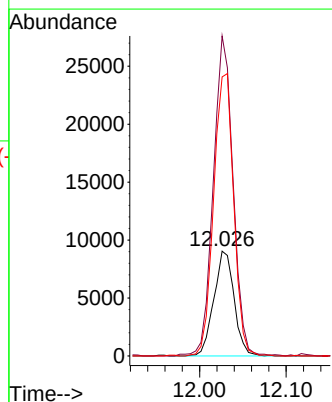
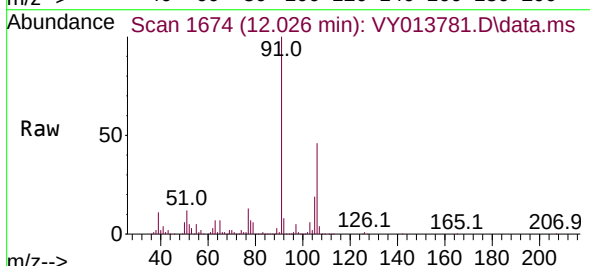
Instrument :
MSVOA_Y
ClientSampleId :
WG-0516-B5-0-2

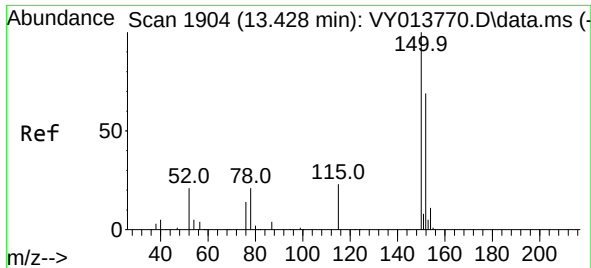
Tgt Ion:106 Resp: 281479
Ion Ratio Lower Upper
106 100
91 217.8 108.4 325.2



#70
Styrene
Concen: 2.660 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. -0.018 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

Tgt Ion:104 Resp: 14733
Ion Ratio Lower Upper
104 100
78 296.7 40.6 61.0#
103 265.9 44.6 66.8#

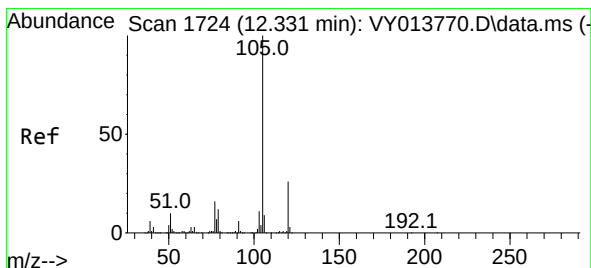
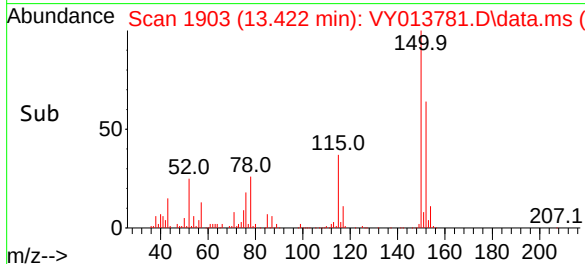
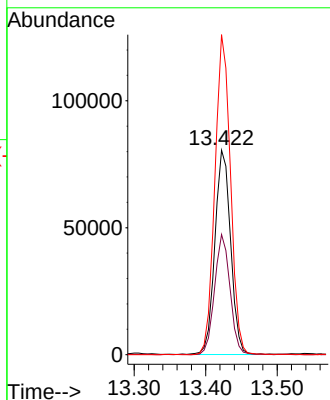
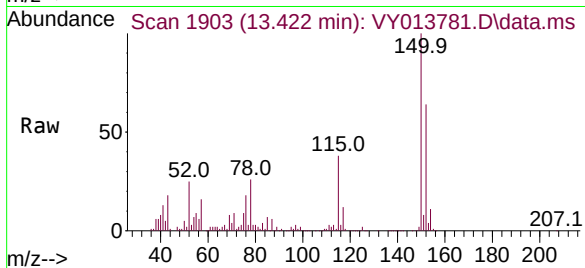




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1904
Delta R.T. -0.006 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

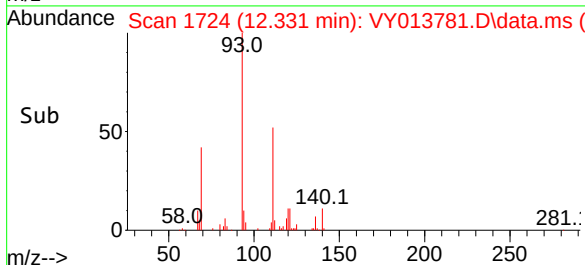
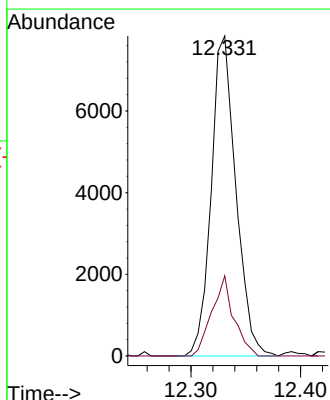
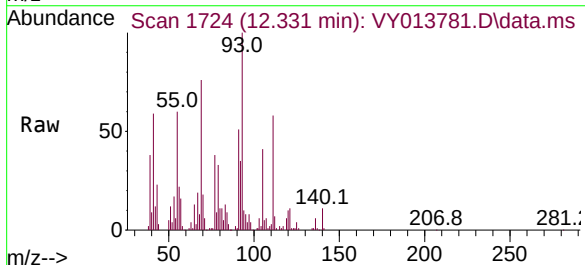
Instrument :
MSVOA_Y
ClientSampleId :
WG-0516-B5-0-2

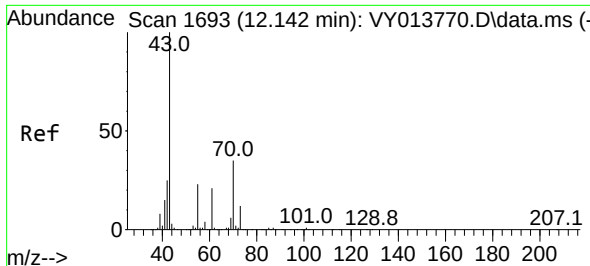
Tgt Ion:152 Resp: 123013
Ion Ratio Lower Upper
152 100
115 57.7 28.5 85.5
150 155.0 0.0 347.0



#73
Isopropylbenzene
Concen: 1.474 ug/l
RT: 12.331 min Scan# 1724
Delta R.T. 0.000 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

Tgt Ion:105 Resp: 12275
Ion Ratio Lower Upper
105 100
120 22.2 13.2 39.6

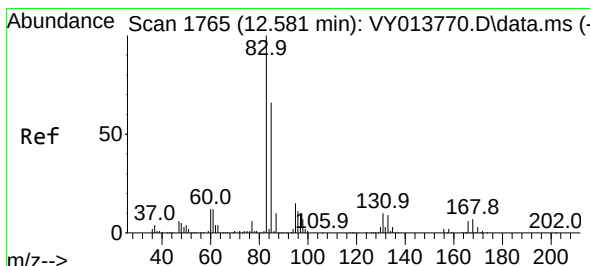
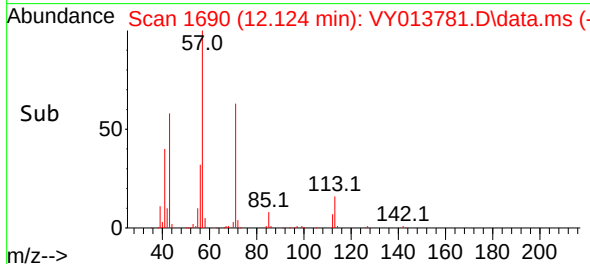
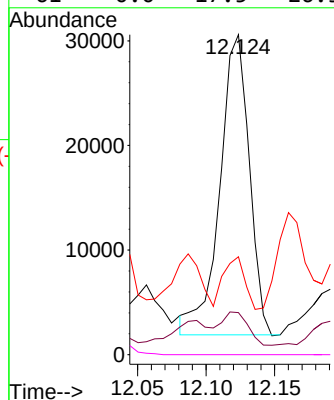
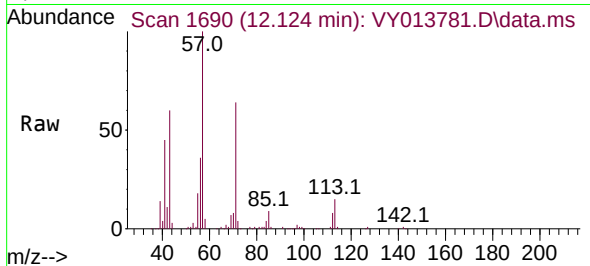




#74
N-amy1 acetate
Concen: 15.148 ug/l
RT: 12.124 min Scan# 1
Delta R.T. -0.018 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

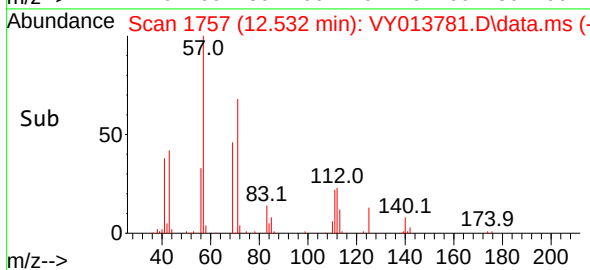
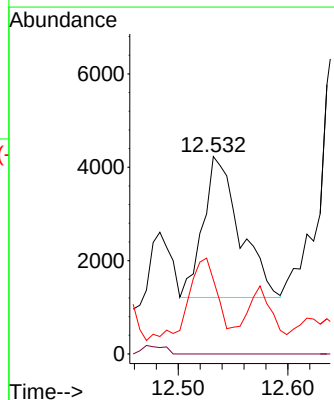
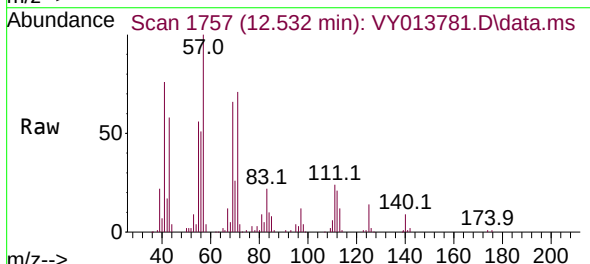
Instrument :
MSVOA_Y
ClientSampleId :
WG-0516-B5-0-2

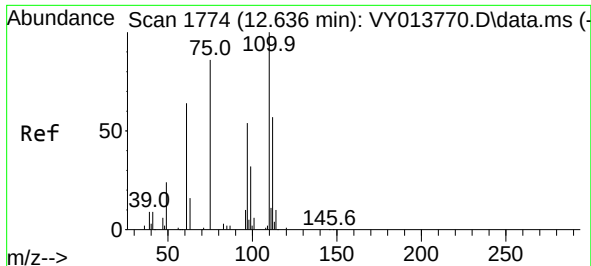
Tgt Ion: 43	Resp: 42811
Ion Ratio	Lower Upper
43	100
70	9.7 28.8 43.2#
55	12.6 18.5 27.7#
61	0.0 17.5 26.3#



#75
1,1,2,2-Tetrachloroethane
Concen: 3.561 ug/l
RT: 12.532 min Scan# 1757
Delta R.T. -0.049 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

Tgt Ion: 83	Resp: 7026
Ion Ratio	Lower Upper
83	100
131	0.0 5.1 15.2#
85	41.0 32.0 96.2

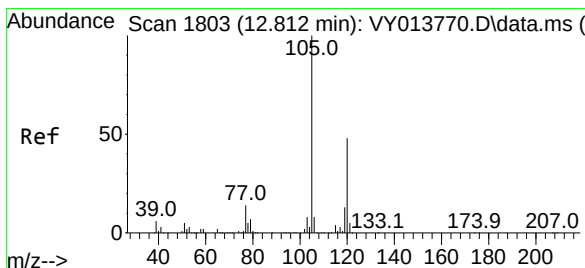
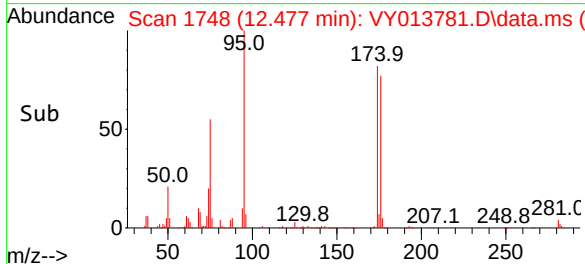
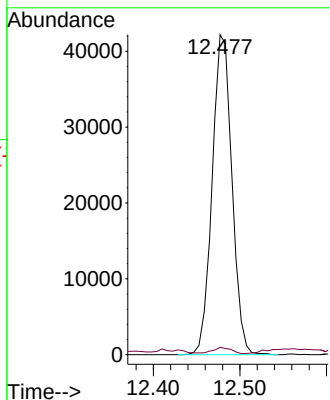
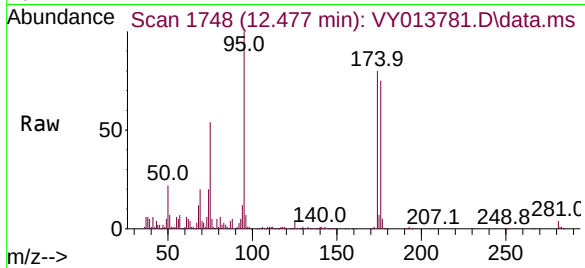




#76
1,2,3-Trichloropropane
Concen: 44.898 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.158 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

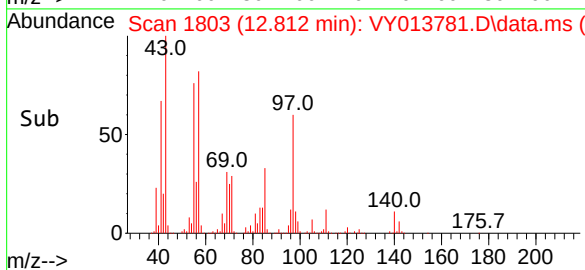
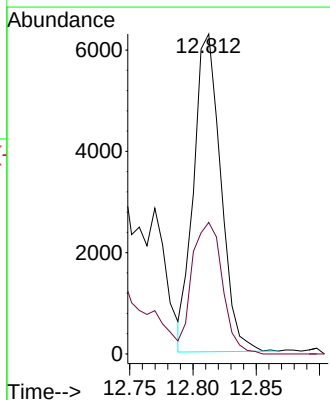
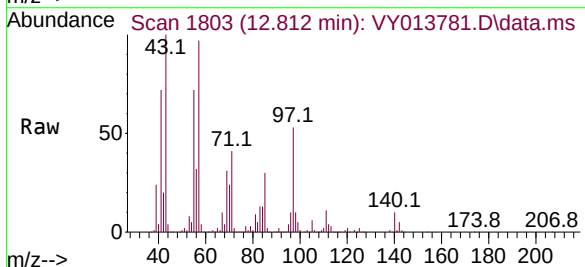
Instrument :
MSVOA_Y
ClientSampleId :
WG-0516-B5-0-2

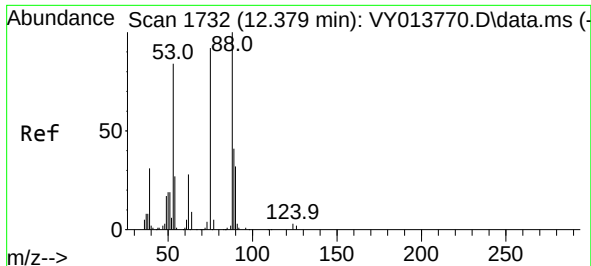
Tgt Ion: 75 Resp: 66843
Ion Ratio Lower Upper
75 100
77 1.7 0.0 0.0#



#80
1,3,5-Trimethylbenzene
Concen: 1.380 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

Tgt Ion:105 Resp: 9369
Ion Ratio Lower Upper
105 100
120 46.2 23.8 71.5

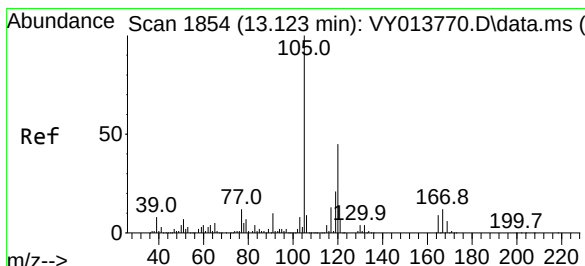
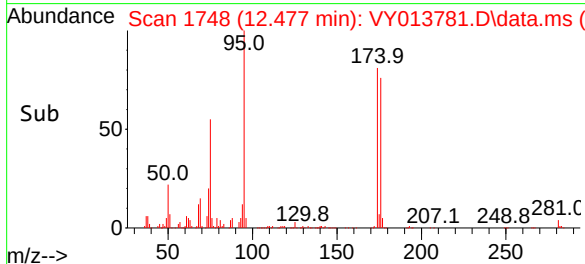
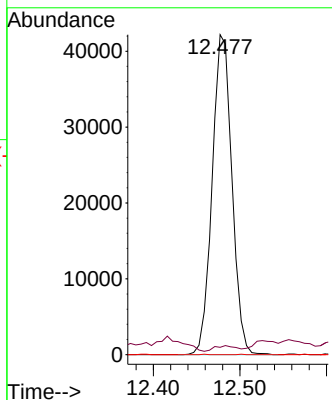
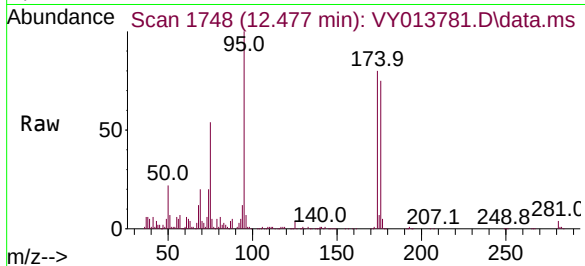




#81
trans-1,4-Dichloro-2-butene
Concen: 99.959 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.098 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

Instrument :
MSVOA_Y
ClientSampleId :
WG-0516-B5-0-2

Tgt Ion: 75 Resp: 66843
Ion Ratio Lower Upper
75 100
53 1.9 75.3 112.9#
89 0.0 35.4 53.2#



#84
1,2,4-Trimethylbenzene
Concen: 2.567 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. -0.006 min
Lab File: VY013781.D
Acq: 17 May 2023 17:13

Tgt Ion: 105 Resp: 17084
Ion Ratio Lower Upper
105 100
120 44.4 22.2 66.6

