

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091522\
 Data File : VY010520.D
 Acq On : 15 Sep 2022 18:46
 Operator : KP/MD
 Sample : N4630-19
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WC-17-4-4-GR

Quant Time: Sep 16 02:57:27 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090922S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 09 17:08:30 2022
 Response via : Initial Calibration

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

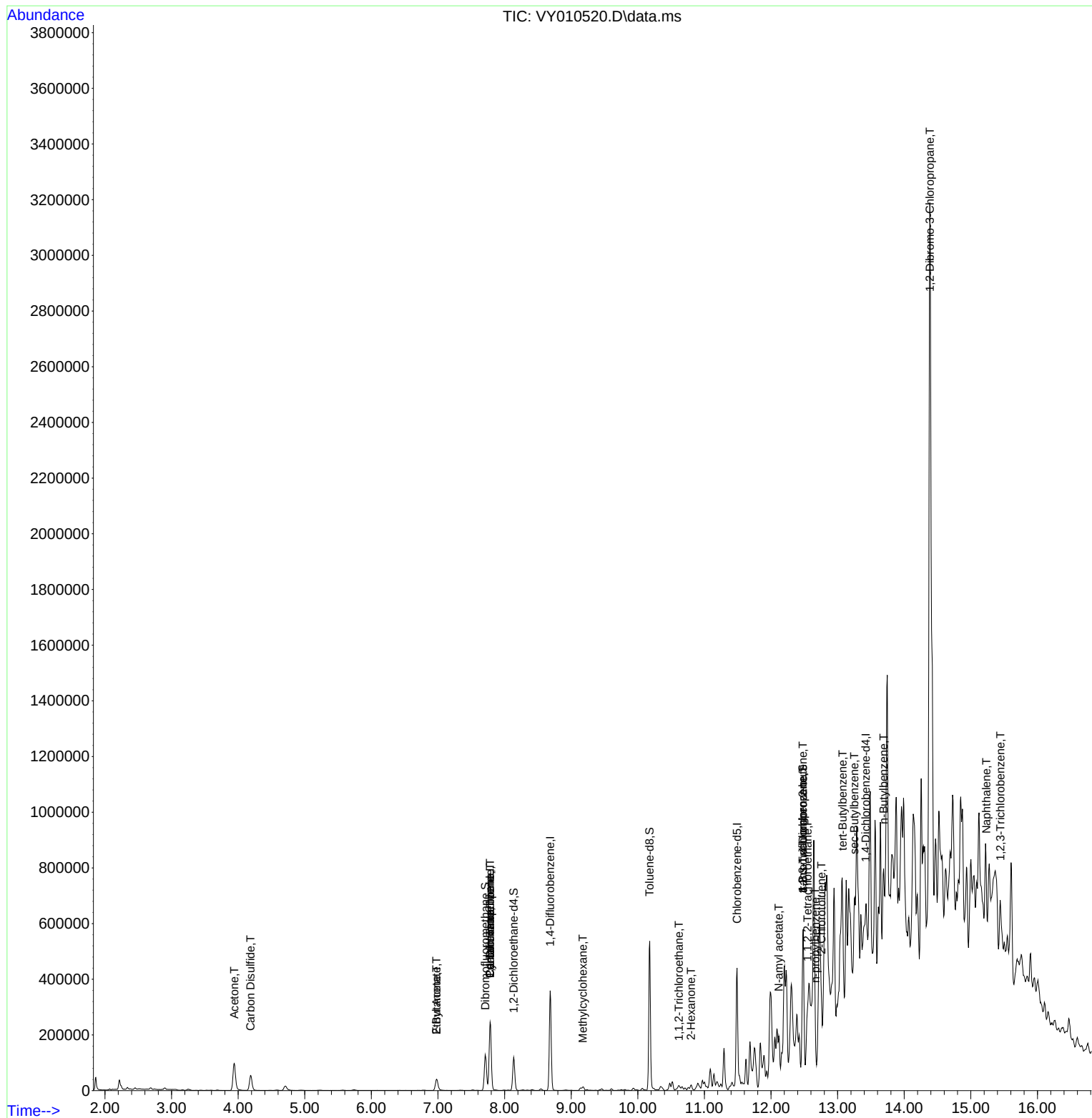
Internal Standards						
1) Pentafluorobenzene	7.783	168	192210	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	309774	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	230042	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	83399	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	89769	46.371	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	92.740%		
35) Dibromofluoromethane	7.710	113	91312	41.505	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	83.000%		
50) Toluene-d8	10.179	98	346262	48.563	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	97.120%		
62) 4-Bromofluorobenzene	12.477	95	102826	34.471	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	68.940%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.894	85	49	Below Cal	#	43
11) Tert butyl alcohol	4.936	59	2032	Below Cal	#	81
16) Acetone	3.942	43	169726	382.040	ug/l #	86
17) Carbon Disulfide	4.186	76	108258	21.597	ug/l	97
20) Methylene Chloride	4.710	84	11766	Below Cal	#	85
25) 2-Butanone	6.978	43	65870	93.296	ug/l #	84
31) Cyclohexane	7.783	56	4856	1.485	ug/l #	16
36) 1,1-Dichloropropene	7.783	75	13873	4.606	ug/l #	50
37) Ethyl Acetate	6.978	43	65870	41.603	ug/l #	72
38) Carbon Tetrachloride	7.783	117	18732	5.590	ug/l #	15
39) Methylcyclohexane	9.173	83	5117	1.363	ug/l #	85
55) 1,1,2-Trichloroethane	10.618	97	5730	3.159	ug/l #	22
59) 2-Hexanone	10.801	43	6741	6.222	ug/l #	34
74) N-amyl acetate	12.117	43	44431	29.264	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	12.550	83	28314	23.261	ug/l #	26
76) 1,2,3-Trichloropropane	12.477	75	43232	46.969	ug/l #	100
78) n-propylbenzene	12.666	91	12291	1.595	ug/l	94
79) 2-Chlorotoluene	12.758	91	9424	2.177	ug/l #	67
81) trans-1,4-Dichloro-2-b...	12.477	75	43232	104.287	ug/l #	17
83) tert-Butylbenzene	13.075	119	11713	2.441	ug/l	90
85) sec-Butylbenzene	13.251	105	13520	1.903	ug/l #	45
89) n-Butylbenzene	13.690	91	8663	1.588	ug/l	85
92) 1,2-Dibromo-3-Chloropr...	14.385	75	1102	5.364	ug/l #	6
95) Naphthalene	15.233	128	11371	3.385	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.446	180	5737	3.859	ug/l #	13

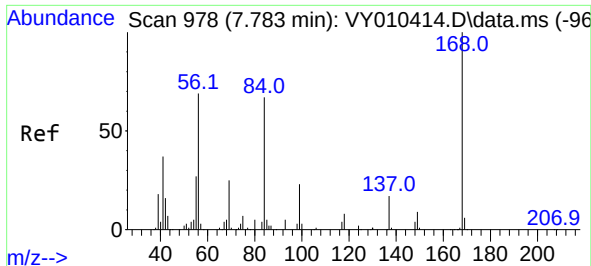
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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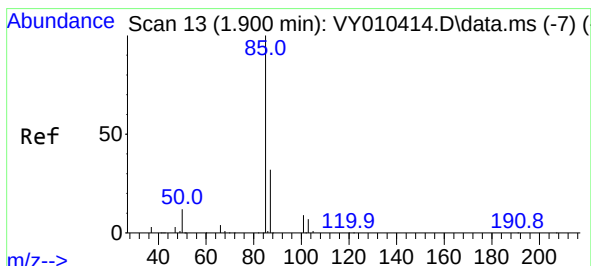
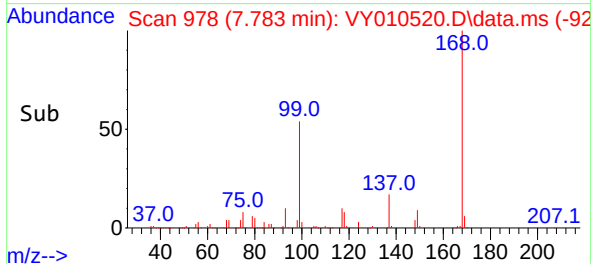
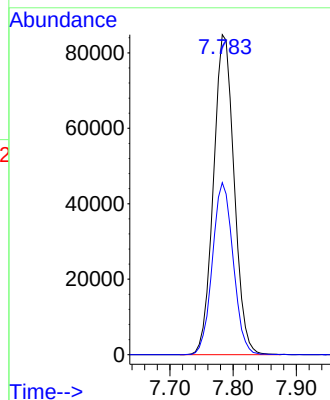
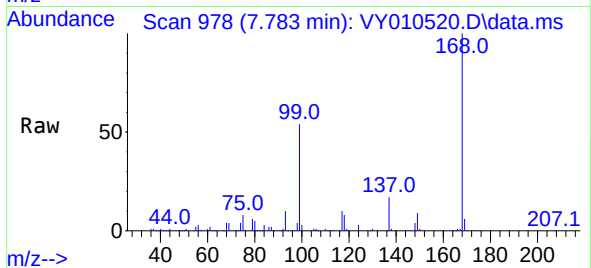




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

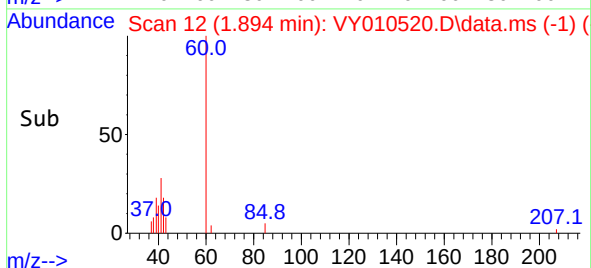
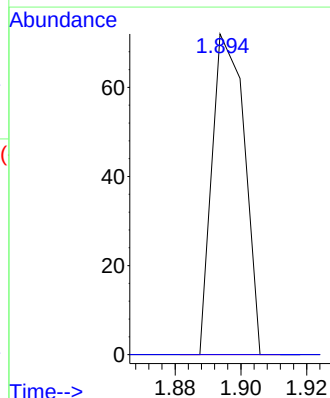
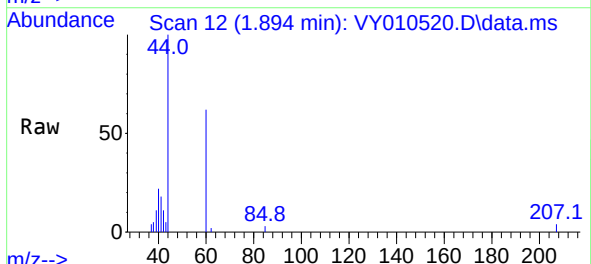
Instrument :
MSVOA_Y
ClientSampleId :
WC-17-4-4-GR

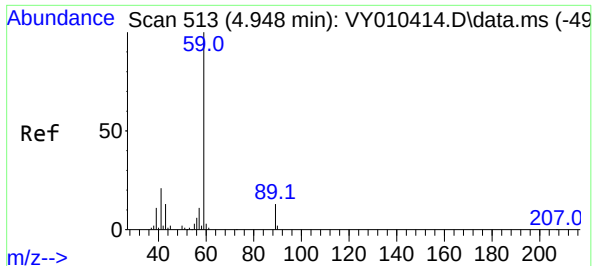
Tgt Ion:168 Resp: 192210
Ion Ratio Lower Upper
168 100
99 53.7 46.9 70.3



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.894 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

Tgt Ion: 85 Resp: 49
Ion Ratio Lower Upper
85 100
87 0.0 16.1 48.2#

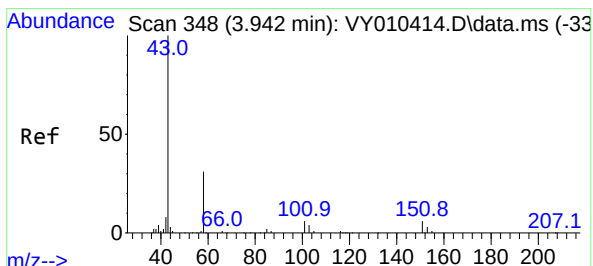
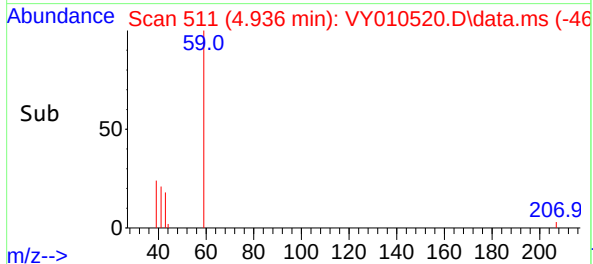
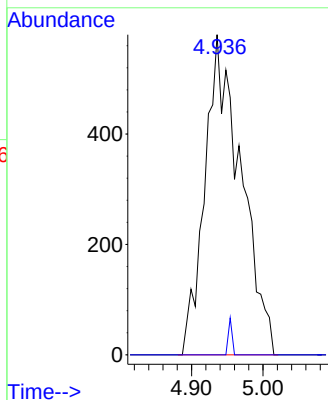
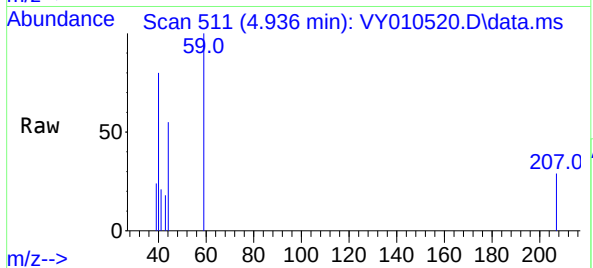




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.936 min Scan# 511
Delta R.T. -0.012 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

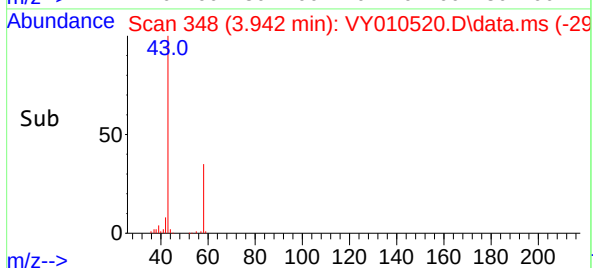
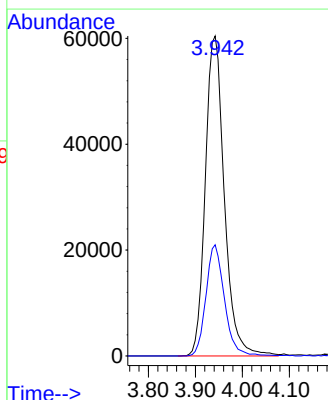
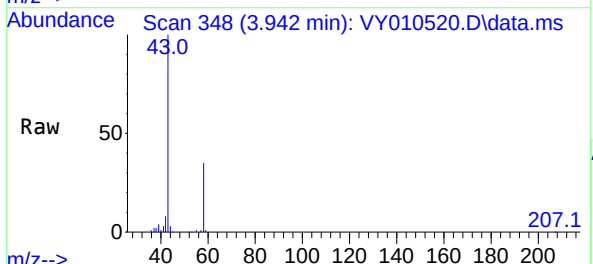
Instrument :
MSVOA_Y
ClientSampleId :
WC-17-4-4-GR

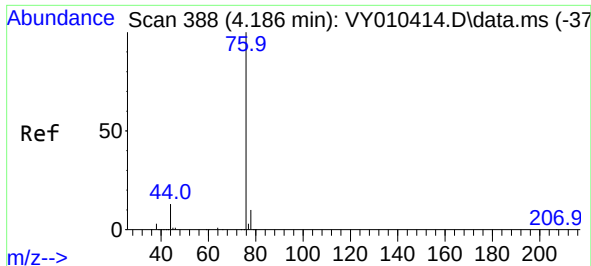
Tgt Ion: 59 Resp: 2032
Ion Ratio Lower Upper
59 100
57 1.2 6.4 9.6#



#16
Acetone
Concen: 382.040 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

Tgt Ion: 43 Resp: 169726
Ion Ratio Lower Upper
43 100
58 34.7 22.0 33.0#

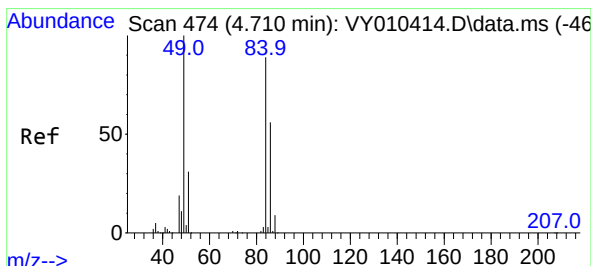
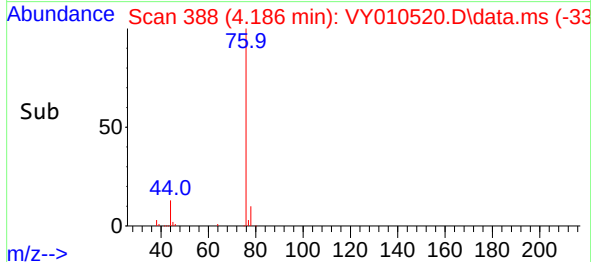
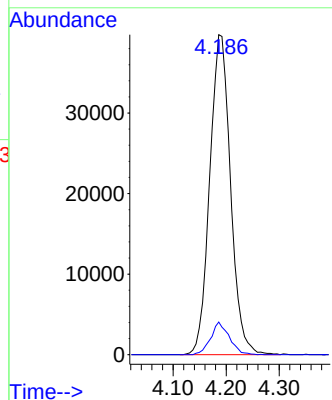
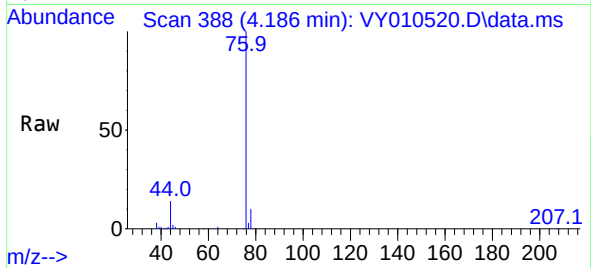




#17
Carbon Disulfide
Concen: 21.597 ug/l
RT: 4.186 min Scan# 388
Delta R.T. -0.000 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

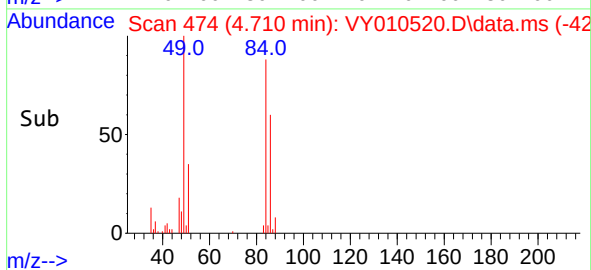
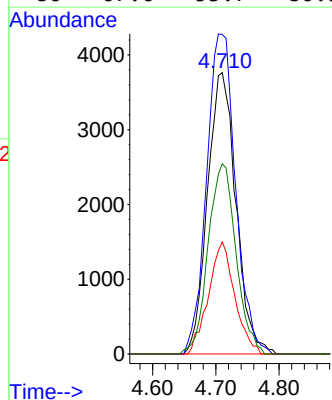
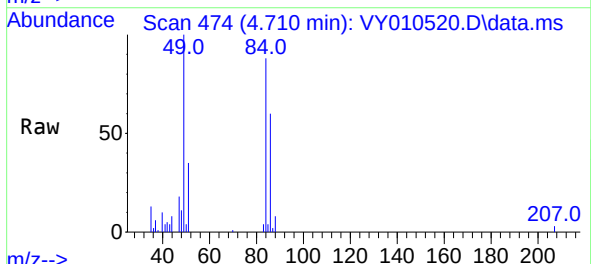
Instrument :
MSVOA_Y
ClientSampleId :
WC-17-4-4-GR

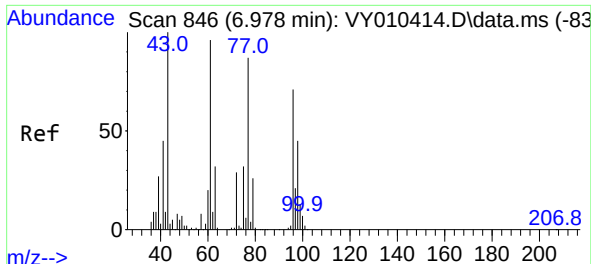
Tgt Ion: 76 Resp: 108258
Ion Ratio Lower Upper
76 100
78 10.2 7.4 11.0



#20
Methylene Chloride
Concen: Below Cal
RT: 4.710 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

Tgt Ion: 84 Resp: 11766
Ion Ratio Lower Upper
84 100
49 113.6 114.4 171.6#
51 39.8 35.3 52.9
86 67.6 53.7 80.5

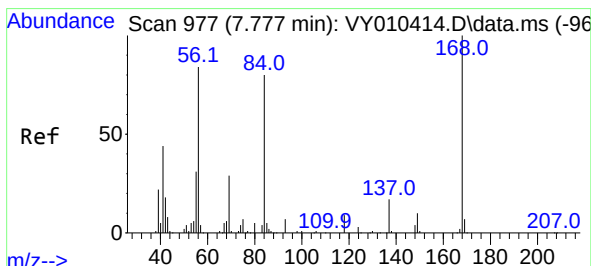
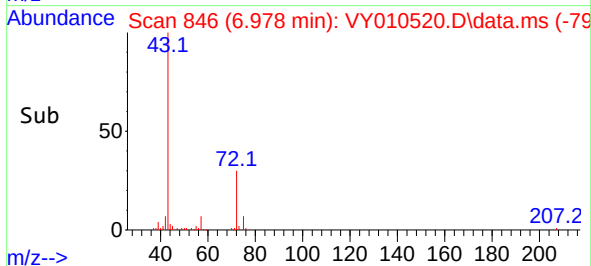
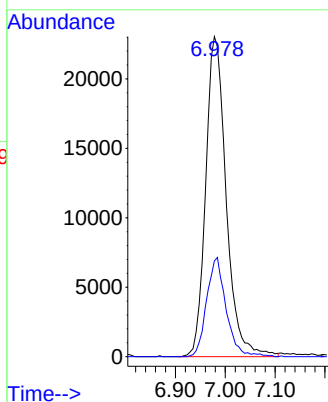
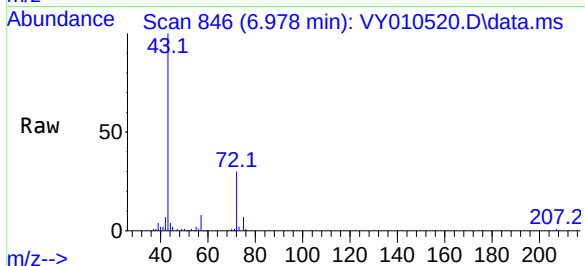




#25
2-Butanone
Concen: 93.296 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

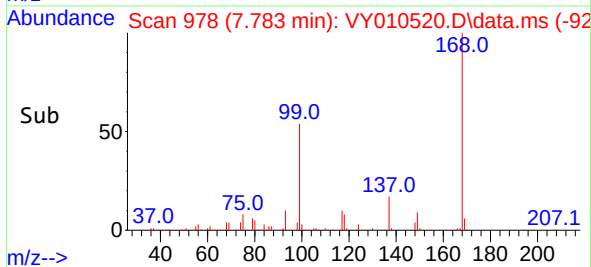
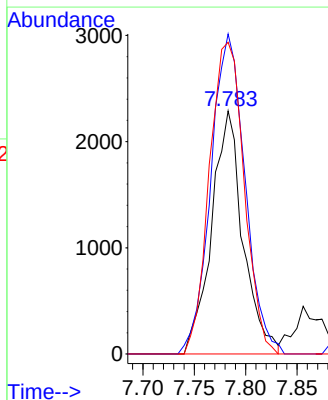
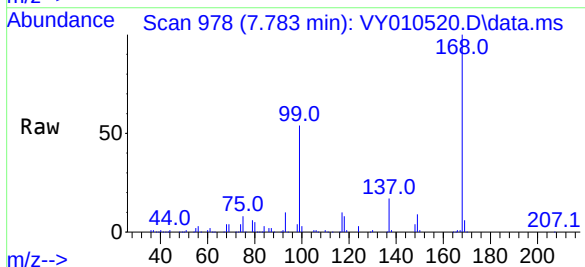
Instrument :
MSVOA_Y
ClientSampleId :
WC-17-4-4-GR

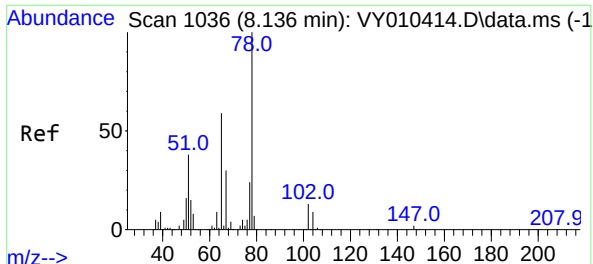
Tgt Ion: 43 Resp: 65870
Ion Ratio Lower Upper
43 100
72 29.9 17.7 26.5#



#31
Cyclohexane
Concen: 1.485 ug/l
RT: 7.783 min Scan# 978
Delta R.T. 0.006 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

Tgt Ion: 56 Resp: 4856
Ion Ratio Lower Upper
56 100
69 131.6 26.7 40.1#
84 128.2 67.2 100.8#





#33

1,2-Dichloroethane-d4

Concen: 46.371 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY010520.D

Acq: 15 Sep 2022 18:46

Instrument :

MSVOA_Y

ClientSampleId :

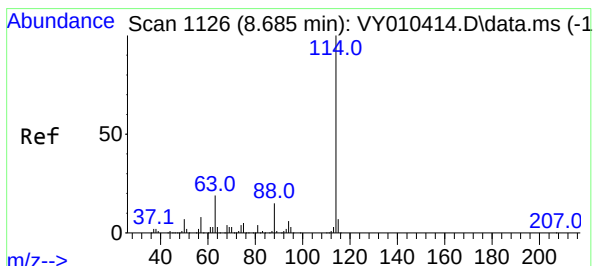
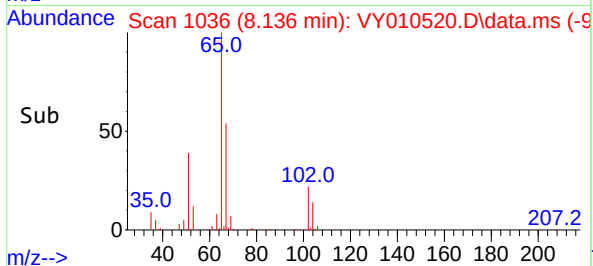
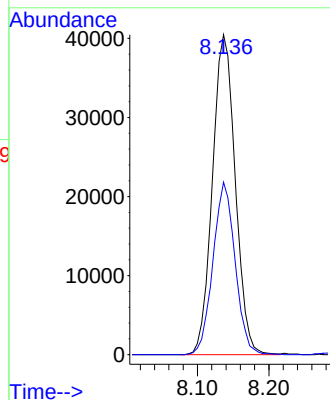
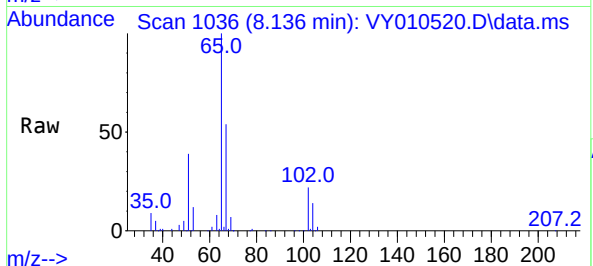
WC-17-4-4-GR

Tgt Ion: 65 Resp: 89769

Ion Ratio Lower Upper

65 100

67 52.3 0.0 99.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY010520.D

Acq: 15 Sep 2022 18:46

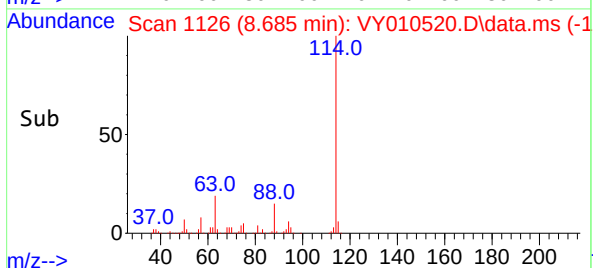
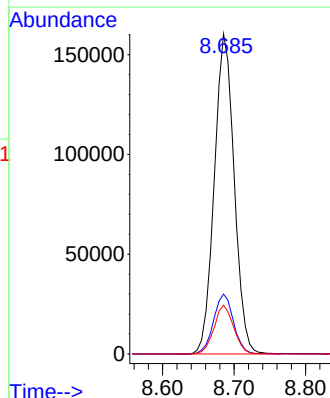
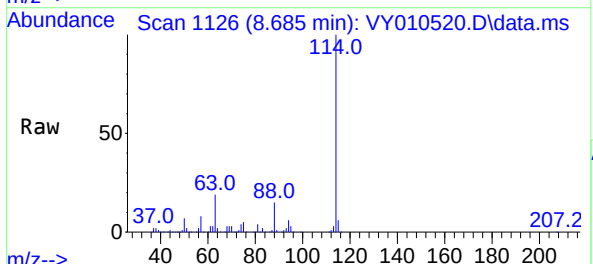
Tgt Ion: 114 Resp: 309774

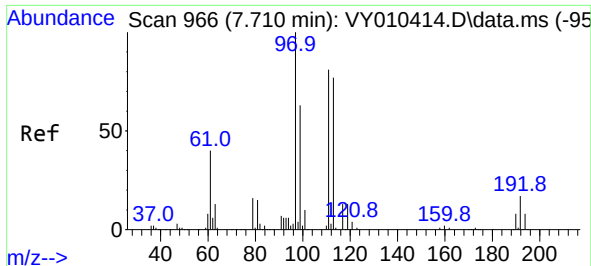
Ion Ratio Lower Upper

114 100

63 18.7 0.0 43.2

88 15.3 0.0 31.8

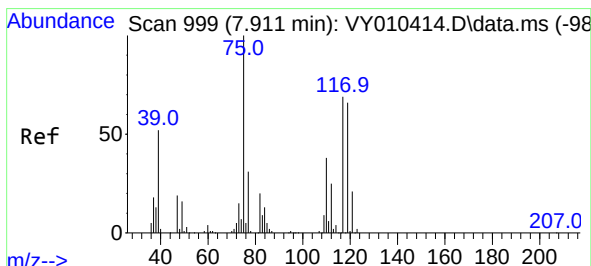
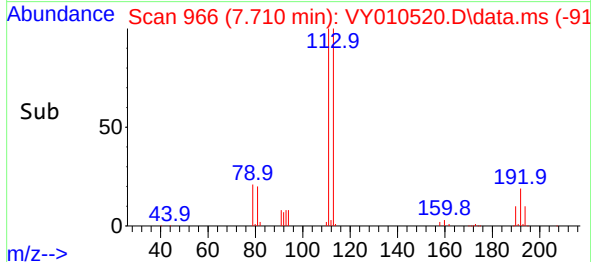
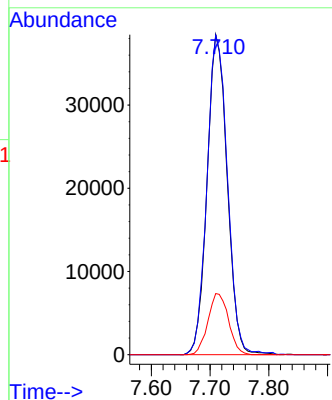
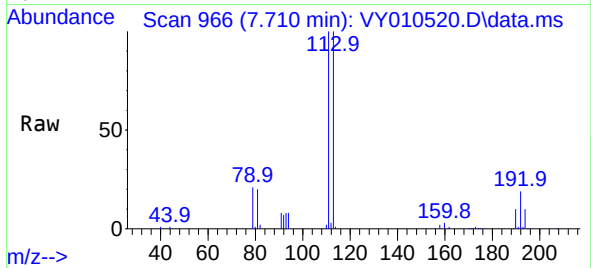




#35
Dibromofluoromethane
Concen: 41.505 ug/l
RT: 7.710 min Scan# 913
Delta R.T. -0.000 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

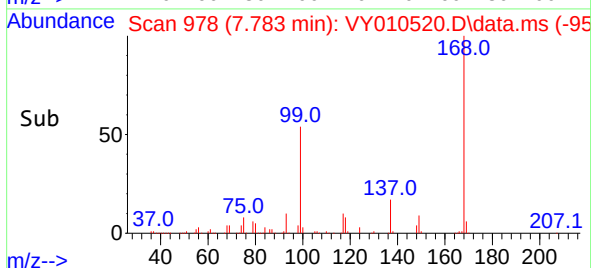
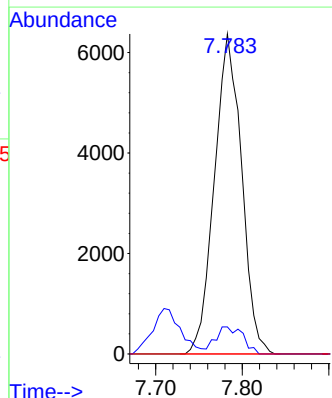
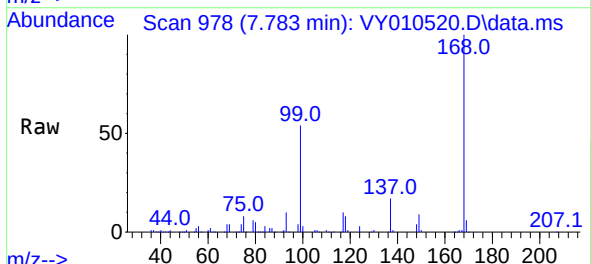
Instrument :
MSVOA_Y
ClientSampleId :
WC-17-4-4-GR

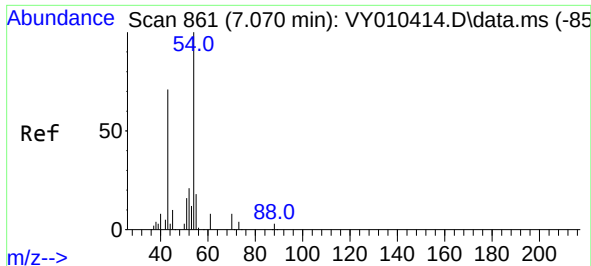
Tgt Ion:113 Resp: 91312
Ion Ratio Lower Upper
113 100
111 102.0 82.6 124.0
192 19.5 17.6 26.4



#36
1,1-Dichloropropene
Concen: 4.606 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.128 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

Tgt Ion: 75 Resp: 13873
Ion Ratio Lower Upper
75 100
110 8.4 17.1 51.2#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 41.603 ug/l

RT: 6.978 min Scan# 84

Delta R.T. -0.092 min

Lab File: VY010520.D

Acq: 15 Sep 2022 18:46

Instrument :

MSVOA_Y

ClientSampleId :

WC-17-4-4-GR

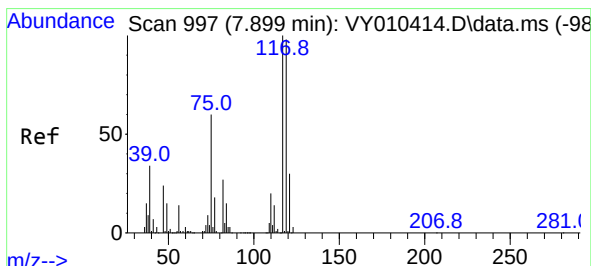
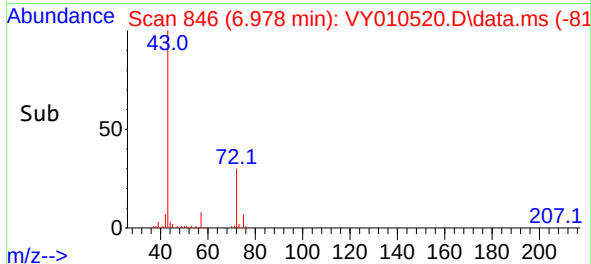
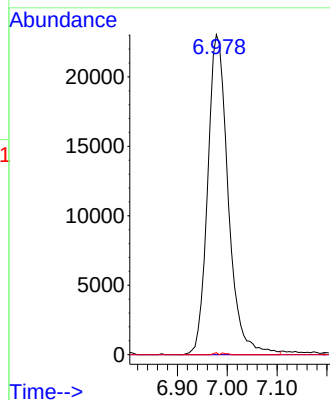
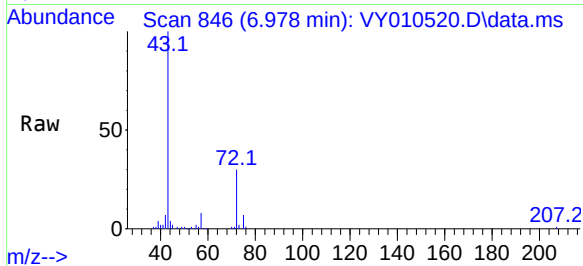
Tgt Ion: 43 Resp: 65870

Ion Ratio Lower Upper

43 100

61 0.0 9.7 14.5#

70 0.1 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 5.590 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.116 min

Lab File: VY010520.D

Acq: 15 Sep 2022 18:46

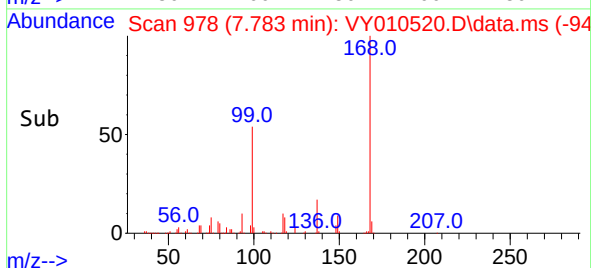
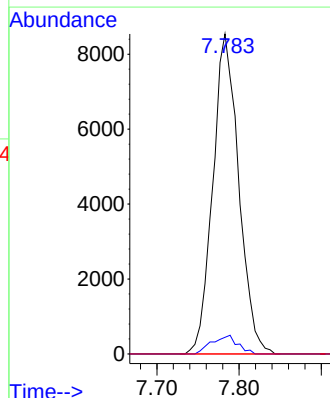
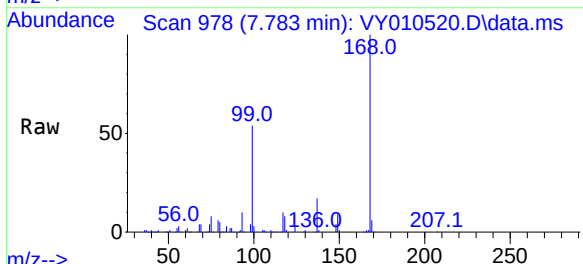
Tgt Ion: 117 Resp: 18732

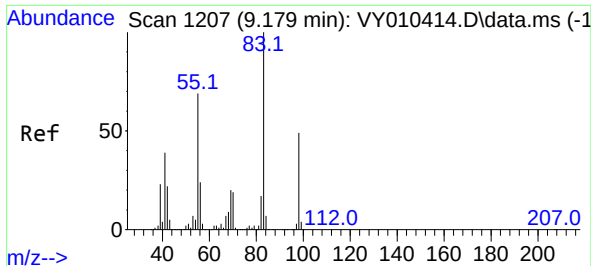
Ion Ratio Lower Upper

117 100

119 5.2 77.9 116.9#

121 0.0 24.8 37.2#

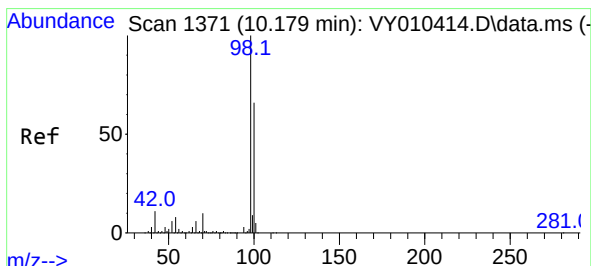
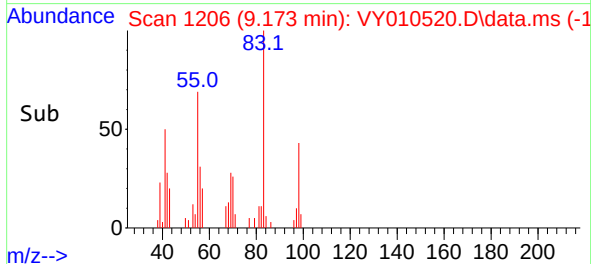
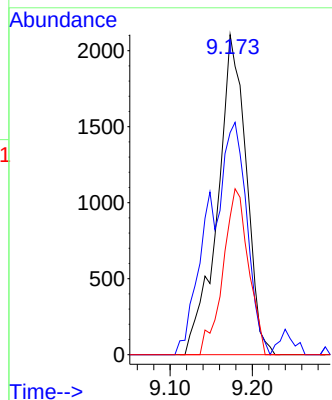
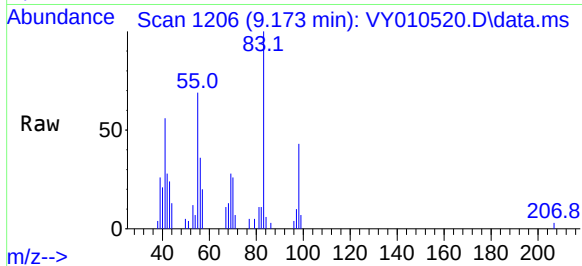




#39
Methylcyclohexane
Concen: 1.363 ug/l
RT: 9.173 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

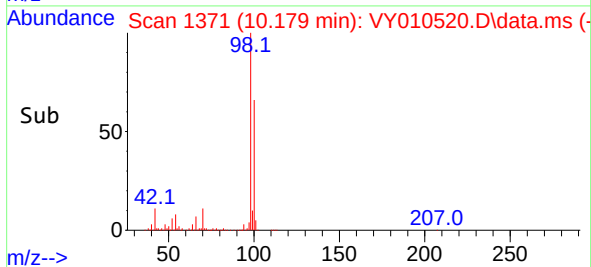
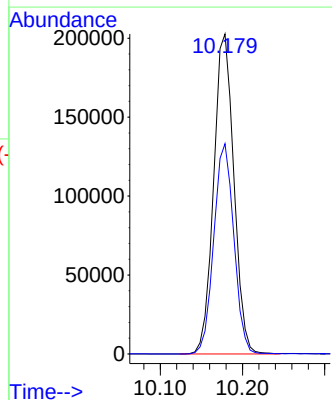
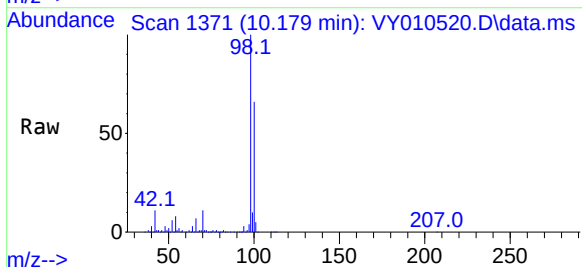
Instrument :
MSVOA_Y
ClientSampleId :
WC-17-4-4-GR

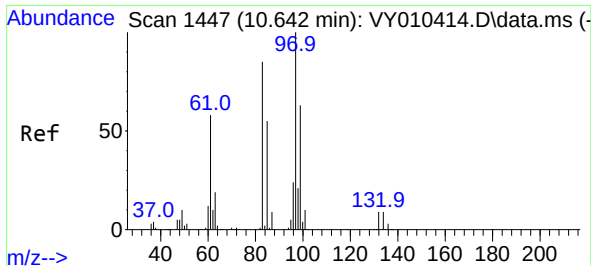
Tgt Ion: 83 Resp: 5117
Ion Ratio Lower Upper
83 100
55 65.1 66.5 99.7#
98 43.0 37.9 56.9



#50
Toluene-d8
Concen: 48.563 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

Tgt Ion: 98 Resp: 346262
Ion Ratio Lower Upper
98 100
100 65.3 50.2 75.2

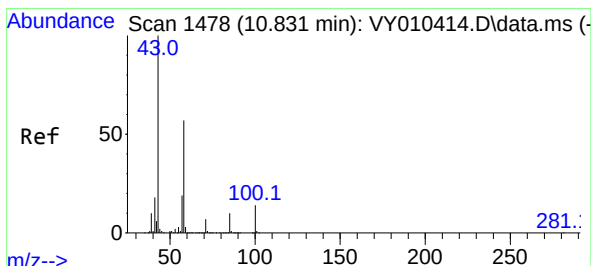
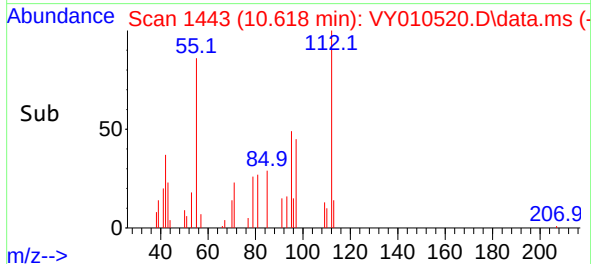
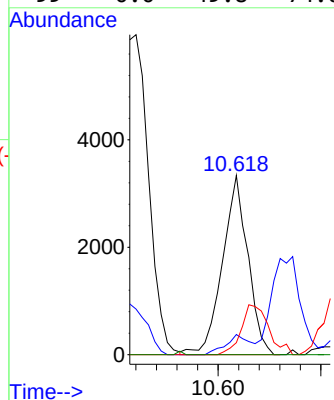
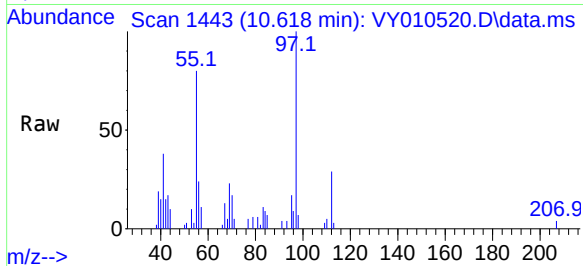




#55
1,1,2-Trichloroethane
Concen: 3.159 ug/l
RT: 10.618 min Scan# 1443
Delta R.T. -0.024 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

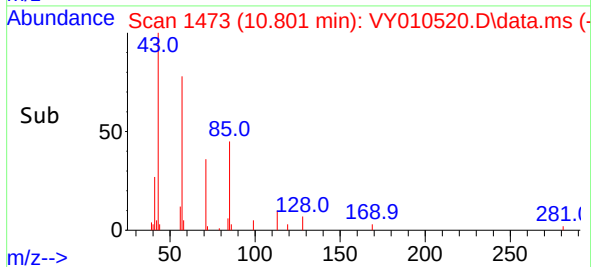
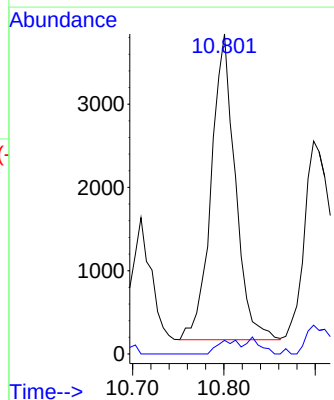
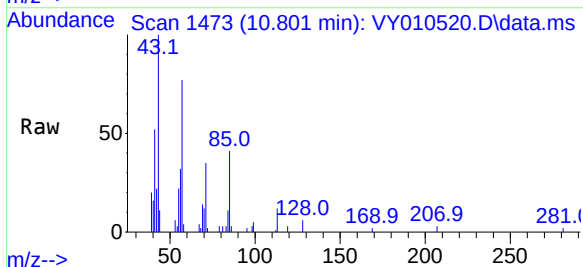
Instrument :
MSVOA_Y
ClientSampleId :
WC-17-4-4-GR

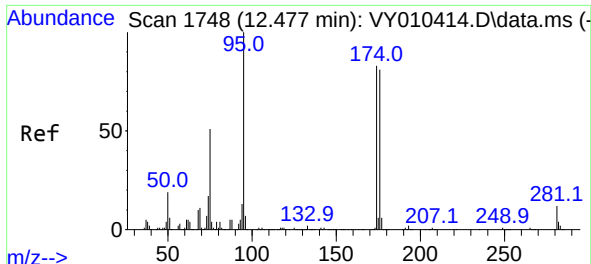
Tgt Ion:	97	Resp:	5730
Ion	Ratio	Lower	Upper
97	100		
83	11.2	69.8	104.8#
85	6.7	44.3	66.5#
99	0.0	49.8	74.6#



#59
2-Hexanone
Concen: 6.222 ug/l
RT: 10.801 min Scan# 1473
Delta R.T. -0.030 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

Tgt Ion:	43	Resp:	6741
Ion	Ratio	Lower	Upper
43	100		
58	4.0	24.4	73.4#

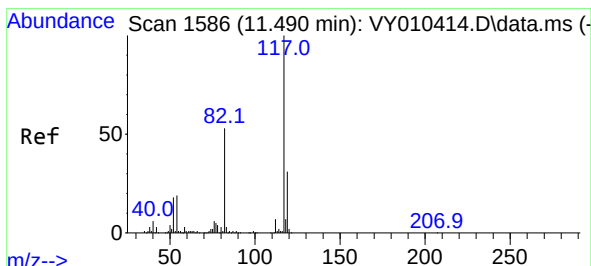
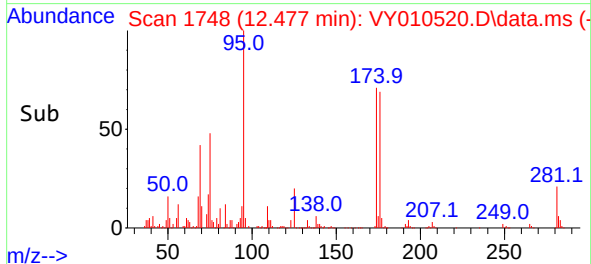
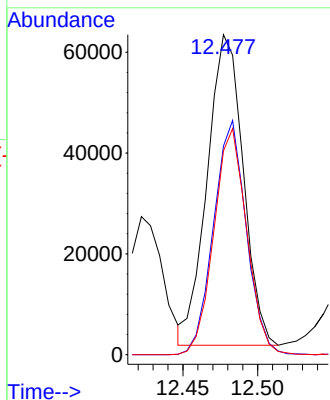
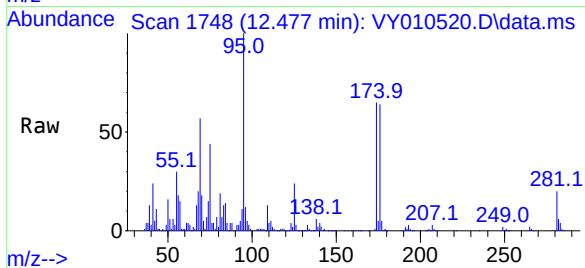




#62
4-Bromofluorobenzene
Concen: 34.471 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

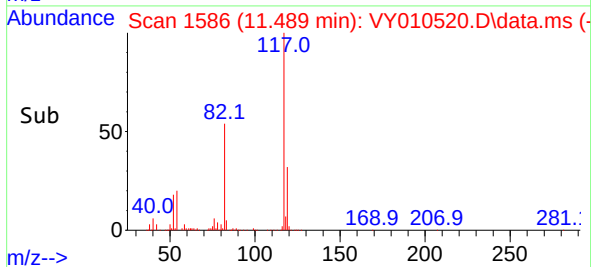
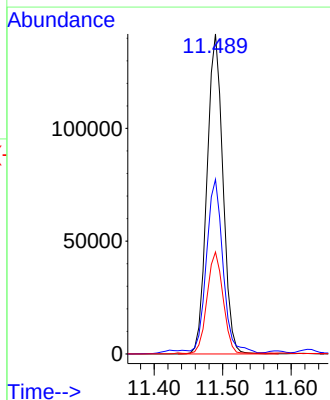
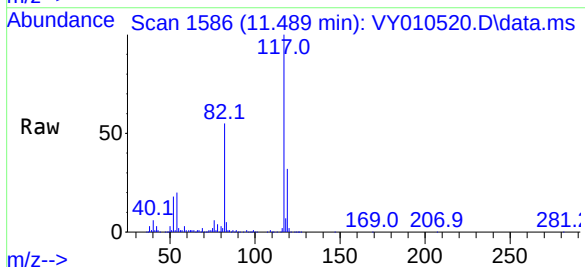
Instrument :
MSVOA_Y
ClientSampleId :
WC-17-4-4-GR

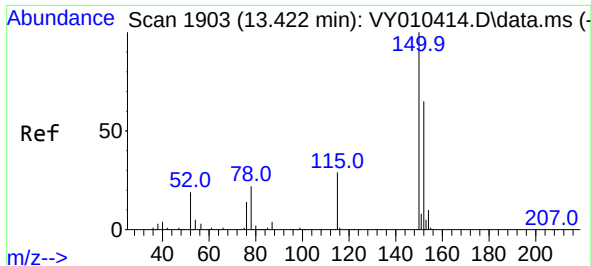
Tgt Ion: 95 Resp: 102826
Ion Ratio Lower Upper
95 100
174 68.8 0.0 177.0
176 66.7 0.0 175.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. -0.001 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

Tgt Ion: 117 Resp: 230042
Ion Ratio Lower Upper
117 100
82 53.6 43.0 64.4
119 31.5 25.4 38.0

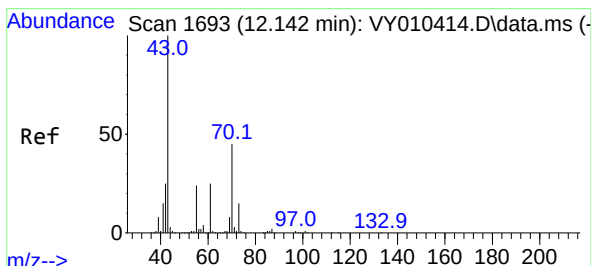
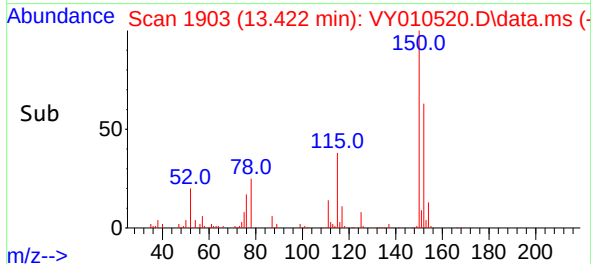
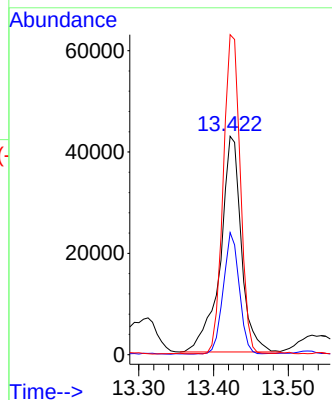
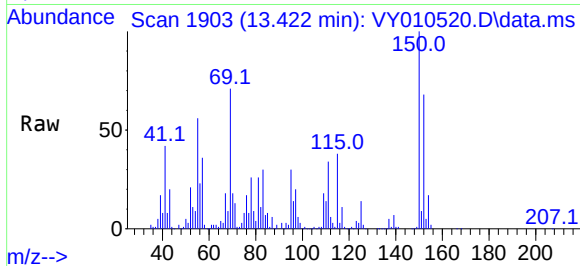




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

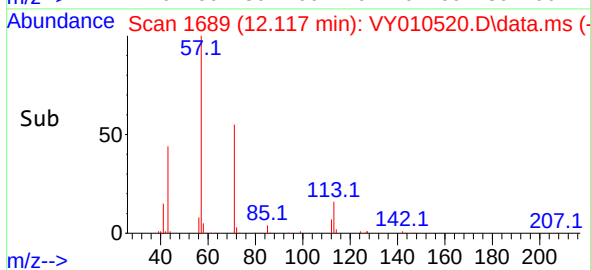
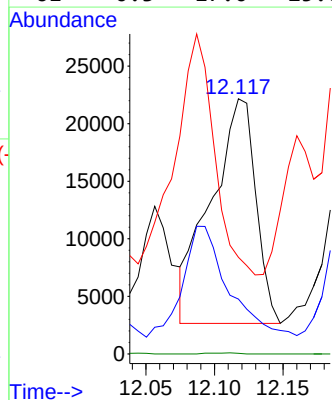
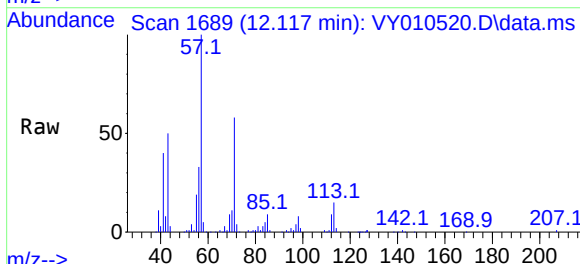
Instrument :
MSVOA_Y
ClientSampleId :
WC-17-4-4-GR

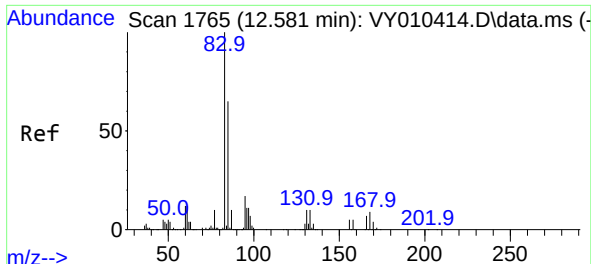
Tgt Ion:152 Resp: 83399
Ion Ratio Lower Upper
152 100
115 43.0 28.2 84.7
150 119.7 0.0 347.6



#74
N-ethyl acetate
Concen: 29.264 ug/l
RT: 12.117 min Scan# 1689
Delta R.T. -0.025 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

Tgt Ion: 43 Resp: 44431
Ion Ratio Lower Upper
43 100
70 0.0 28.7 43.1#
55 0.0 17.3 25.9#
61 0.3 17.0 25.6#

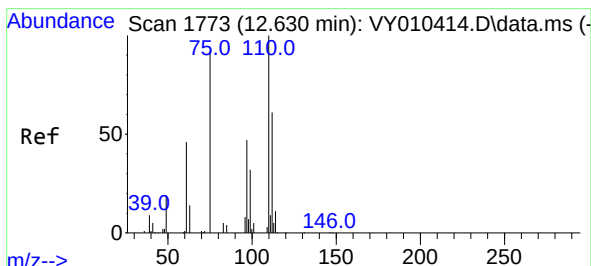
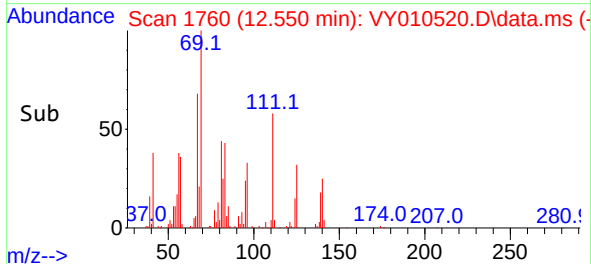
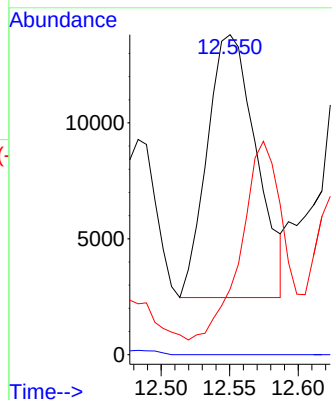
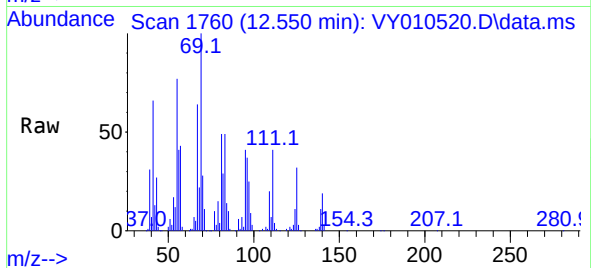




#75
1,1,2,2-Tetrachloroethane
Concen: 23.261 ug/l
RT: 12.550 min Scan# 11
Delta R.T. -0.031 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

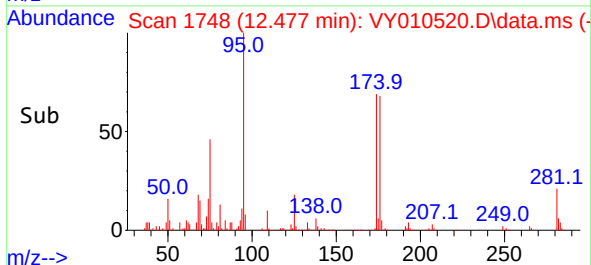
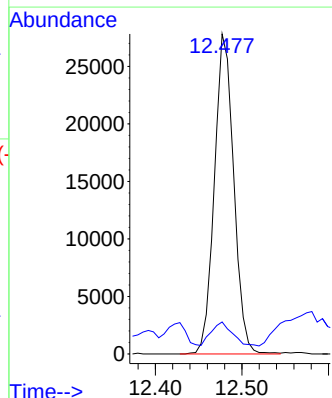
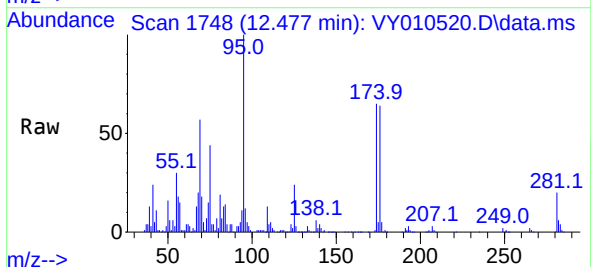
Instrument :
MSVOA_Y
ClientSampleId :
WC-17-4-4-GR

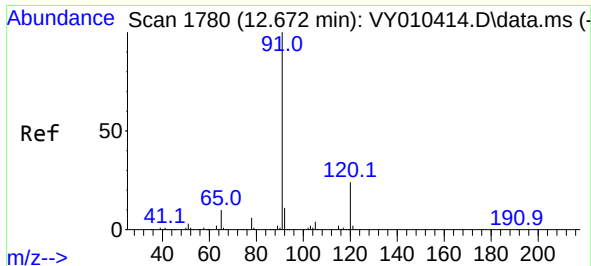
Tgt Ion: 83 Resp: 28314
Ion Ratio Lower Upper
83 100
131 0.0 5.6 16.8#
85 0.0 32.3 96.8#



#76
1,2,3-Trichloropropane
Concen: 46.969 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.153 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

Tgt Ion: 75 Resp: 43232
Ion Ratio Lower Upper
75 100
77 8.1 0.0 0.0#

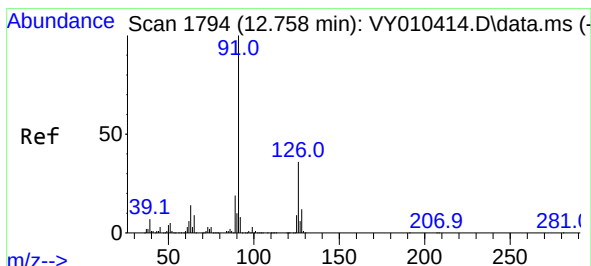
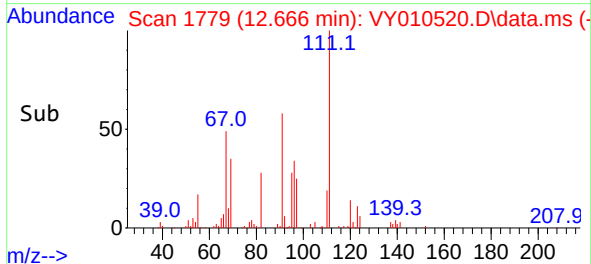
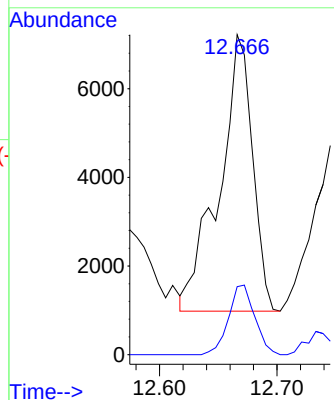
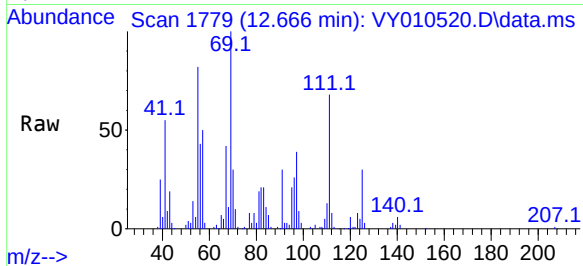




#78
n-propylbenzene
Concen: 1.595 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. -0.006 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

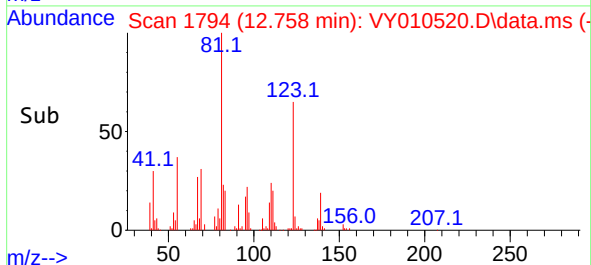
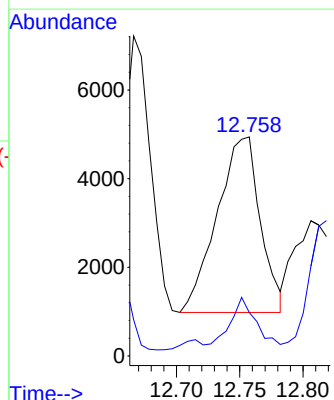
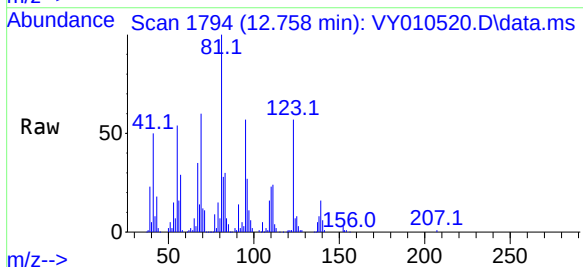
Instrument :
MSVOA_Y
ClientSampleId :
WC-17-4-4-GR

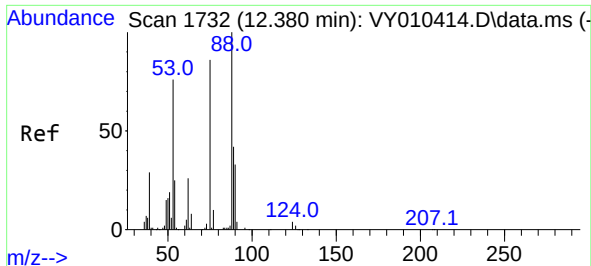
Tgt Ion: 91 Resp: 12291
Ion Ratio Lower Upper
91 100
120 19.8 11.3 33.9



#79
2-Chlorotoluene
Concen: 2.177 ug/l
RT: 12.758 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

Tgt Ion: 91 Resp: 9424
Ion Ratio Lower Upper
91 100
126 14.7 16.9 50.6#

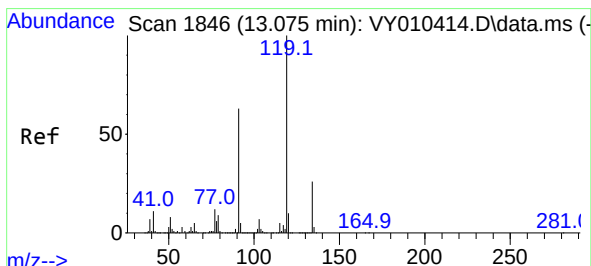
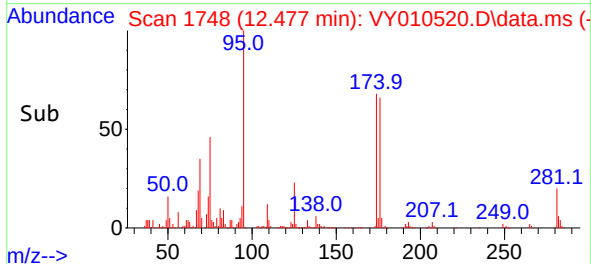
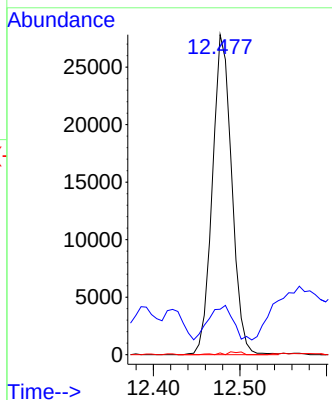
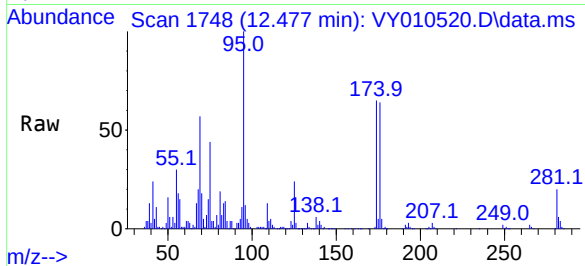




#81
trans-1,4-Dichloro-2-butene
Concen: 104.287 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.097 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

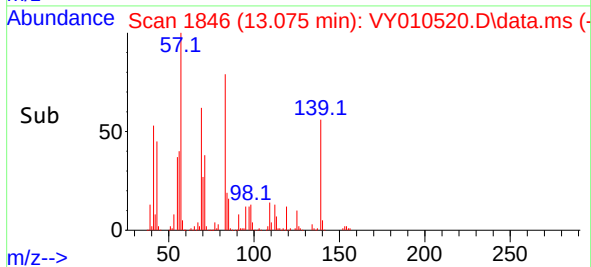
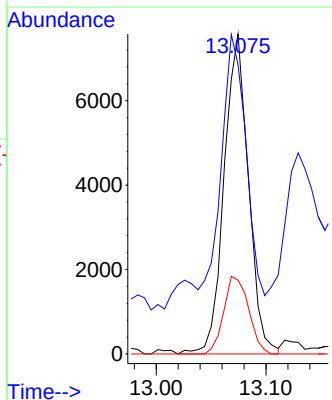
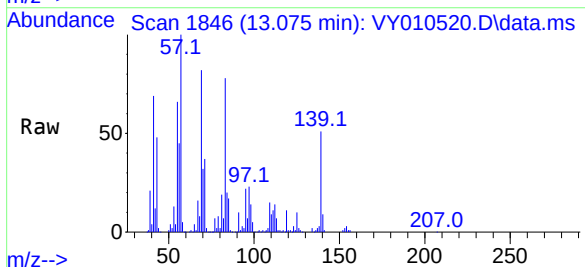
Instrument :
MSVOA_Y
ClientSampleId :
WC-17-4-4-GR

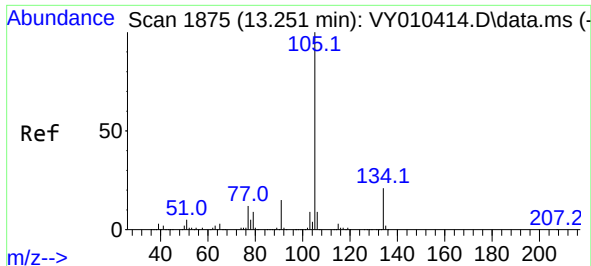
Tgt Ion: 75 Resp: 43232
Ion Ratio Lower Upper
75 100
53 13.3 85.3 127.9#
89 0.7 37.0 55.4#



#83
tert-Butylbenzene
Concen: 2.441 ug/l
RT: 13.075 min Scan# 1846
Delta R.T. -0.000 min
Lab File: VY010520.D
Acq: 15 Sep 2022 18:46

Tgt Ion: 119 Resp: 11713
Ion Ratio Lower Upper
119 100
91 79.2 34.8 104.4
134 24.7 13.3 39.9

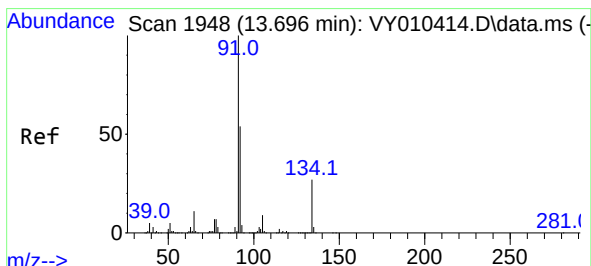
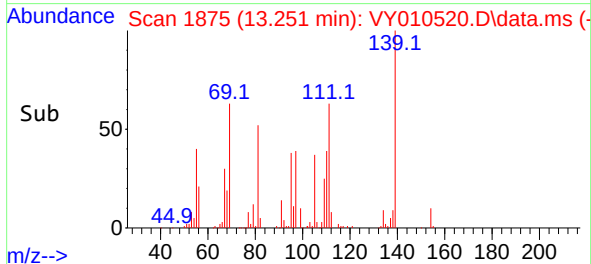
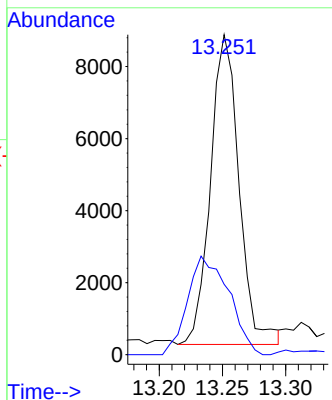
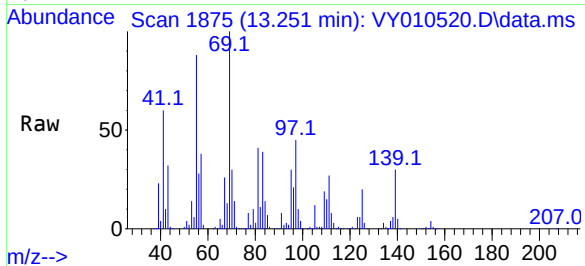




#85
 sec-Butylbenzene
 Concen: 1.903 ug/l
 RT: 13.251 min Scan# 1875
 Delta R.T. 0.000 min
 Lab File: VY010520.D
 Acq: 15 Sep 2022 18:46

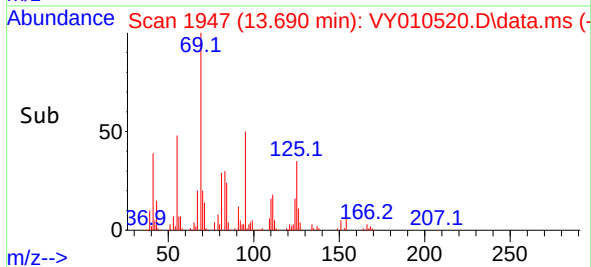
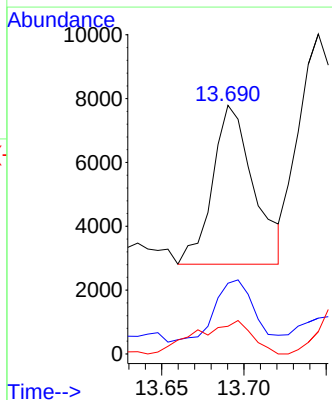
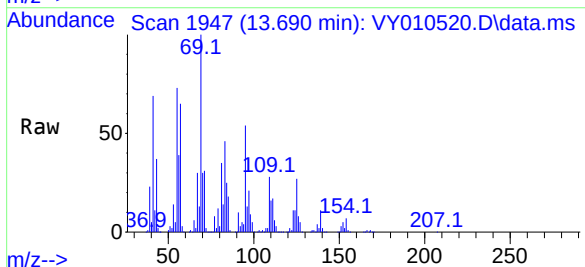
Instrument :
 MSVOA_Y
 ClientSampleId :
 WC-17-4-4-GR

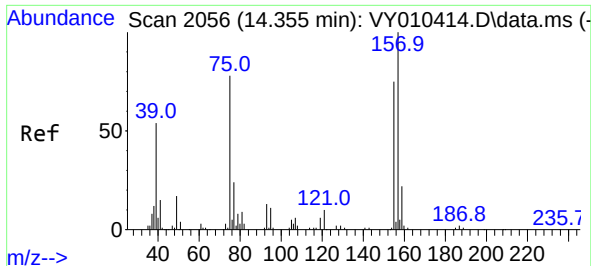
Tgt Ion:105 Resp: 13520
 Ion Ratio Lower Upper
 105 100
 134 45.8 10.2 30.4#



#89
 n-Butylbenzene
 Concen: 1.588 ug/l
 RT: 13.690 min Scan# 1947
 Delta R.T. -0.006 min
 Lab File: VY010520.D
 Acq: 15 Sep 2022 18:46

Tgt Ion: 91 Resp: 8663
 Ion Ratio Lower Upper
 91 100
 92 38.5 26.3 78.9
 134 28.1 13.0 38.9





#92

1,2-Dibromo-3-Chloropropane

Concen: 5.364 ug/l

RT: 14.385 min Scan# 2056

Delta R.T. 0.030 min

Lab File: VY010520.D

Acq: 15 Sep 2022 18:46

Instrument :

MSVOA_Y

ClientSampleId :

WC-17-4-4-GR

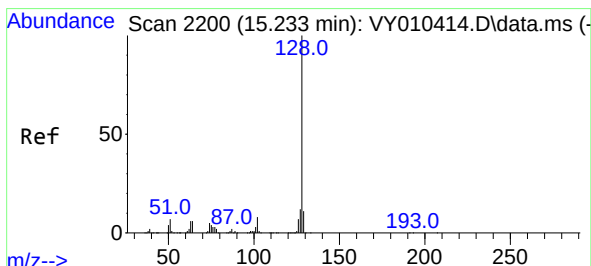
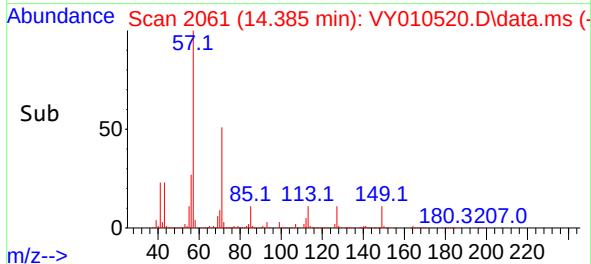
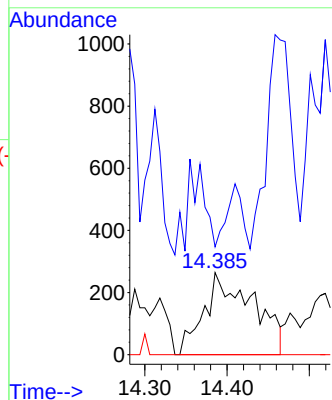
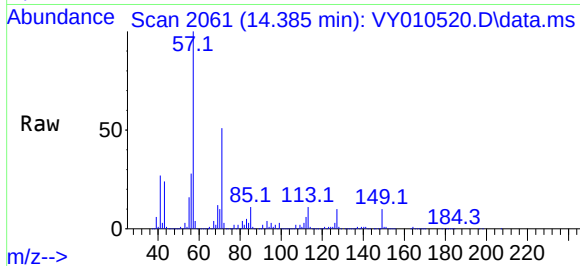
Tgt Ion: 75 Resp: 1102

Ion Ratio Lower Upper

75 100

155 0.0 38.0 113.9#

157 0.0 47.8 143.3#



#95

Naphthalene

Concen: 3.385 ug/l

RT: 15.233 min Scan# 2200

Delta R.T. -0.000 min

Lab File: VY010520.D

Acq: 15 Sep 2022 18:46

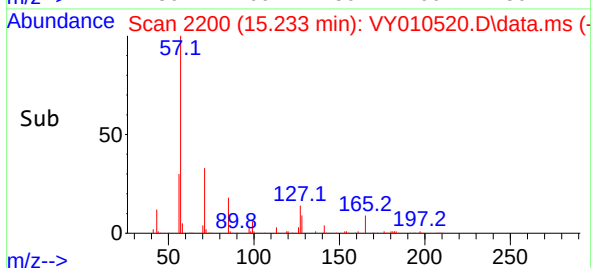
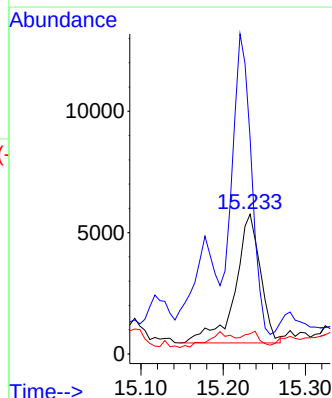
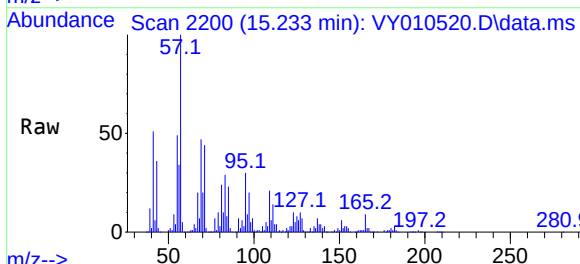
Tgt Ion: 128 Resp: 11371

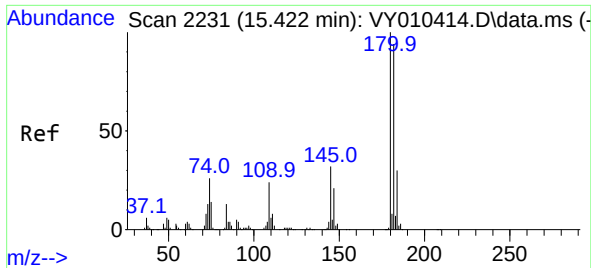
Ion Ratio Lower Upper

128 100

127 176.3 11.0 16.4#

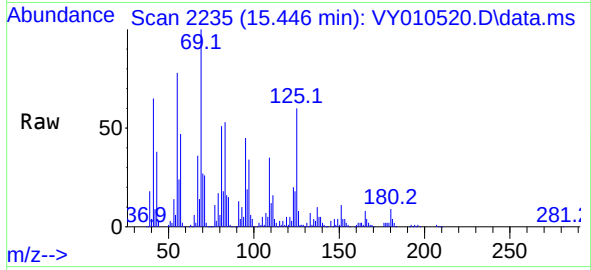
129 5.5 8.4 12.6#





#96
 1,2,3-Trichlorobenzene
 Concen: 3.859 ug/l
 RT: 15.446 min Scan# 21
 Delta R.T. 0.024 min
 Lab File: VY010520.D
 Acq: 15 Sep 2022 18:46

Instrument :
 MSVOA_Y
 ClientSampleId :
 WC-17-4-4-GR



Tgt Ion:	180	Resp:	5737
Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.3	141.9#
145	0.0	15.3	45.9#

