

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032122\
 Data File : VY007976.D
 Acq On : 22 Mar 2022 01:06
 Operator : SY/MD
 Sample : N1977-05
 Misc : 5.24g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-12-20220315-19.0-20.0

Quant Time: Mar 22 03:44:31 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y031722S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 17 13:55:34 2022
 Response via : Initial Calibration

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

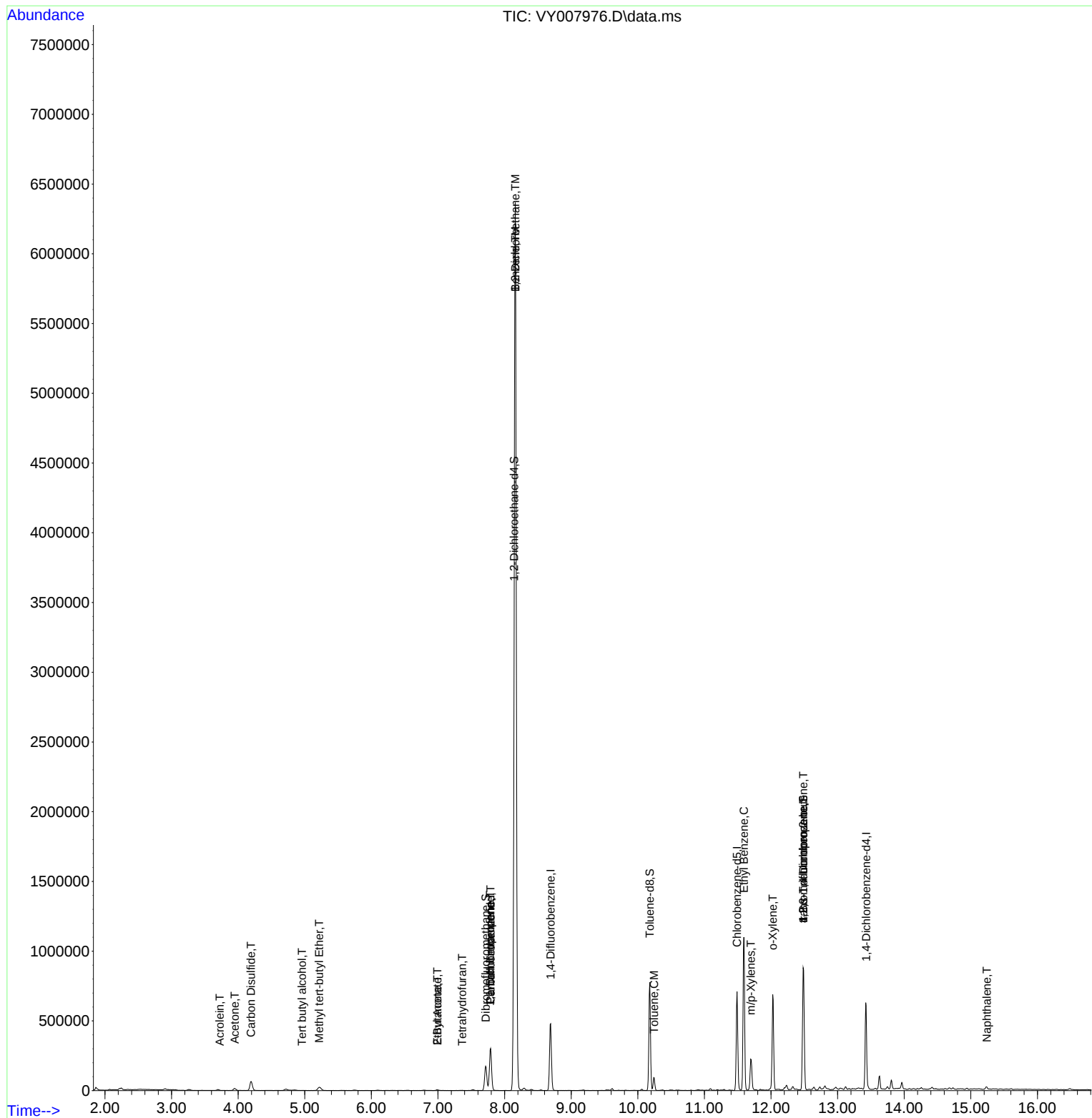
Internal Standards						
1) Pentafluorobenzene	7.789	168	215249	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	411321	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	364169	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	152601	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	145106	59.125	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 118.240%	
35) Dibromofluoromethane	7.716	113	123600	42.788	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 85.580%	
50) Toluene-d8	10.179	98	495348	57.697	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 115.400%	
62) 4-Bromofluorobenzene	12.483	95	172094	41.510	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 83.020%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.912	85	54	Below Cal	#	43
3) Chloromethane	2.113	50	975	Below Cal		89
4) Vinyl Chloride	2.265	62	223	Below Cal	#	43
5) Bromomethane	2.656	94	418	Below Cal	#	64
11) Tert butyl alcohol	4.960	59	1050	3.672	ug/l #	77
13) Acrolein	3.723	56	406	2.358	ug/l #	14
16) Acetone	3.948	43	24704	37.944	ug/l	94
17) Carbon Disulfide	4.192	76	132203	27.205	ug/l	100
18) Methyl Acetate	4.466	43	306	Below Cal	#	46
19) Methyl tert-butyl Ether	5.216	73	40379	5.508	ug/l	97
20) Methylene Chloride	4.716	84	7128	Below Cal		86
25) 2-Butanone	6.990	43	9085	8.712	ug/l	96
29) Tetrahydrofuran	7.362	42	897	1.342	ug/l #	70
31) Cyclohexane	7.789	56	8220	Below Cal	#	17
36) 1,1-Dichloropropene	7.783	75	19707	4.600	ug/l #	51
37) Ethyl Acetate	6.990	43	9085	3.475	ug/l #	72
38) Carbon Tetrachloride	7.789	117	23441	5.120	ug/l #	14
39) Methylcyclohexane	9.191	83	1505	Below Cal	#	71
40) Benzene	8.161	78	6507171	519.736	ug/l	98
42) 1,2-Dichloroethane	8.161	62	54876	15.138	ug/l	80
52) Toluene	10.246	92	38697	4.813	ug/l	94
67) Ethyl Benzene	11.593	91	776125	49.944	ug/l	98
68) m/p-Xylenes	11.697	106	71903	11.862	ug/l	93
69) o-Xylene	12.026	106	181307	30.922	ug/l	96
76) 1,2,3-Trichloropropane	12.483	75	95073	43.710	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	95073	91.809	ug/l #	8
95) Naphthalene	15.239	128	14722	1.936	ug/l	99

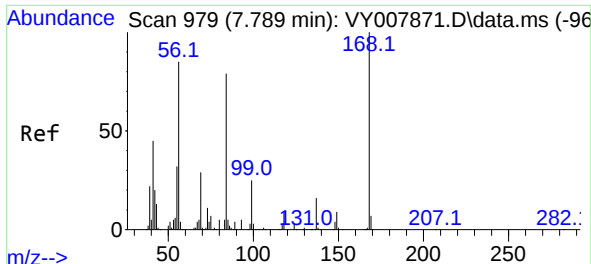
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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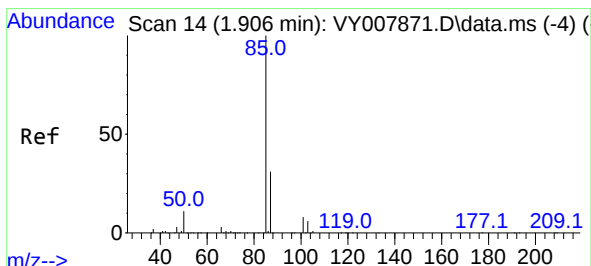
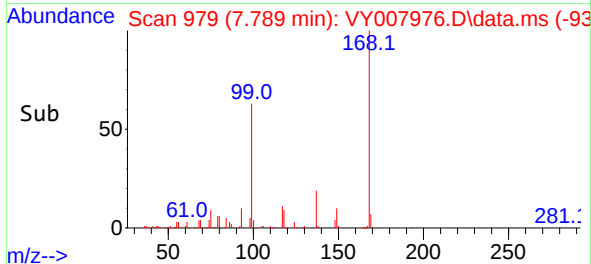
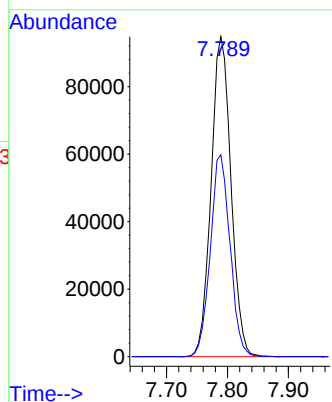
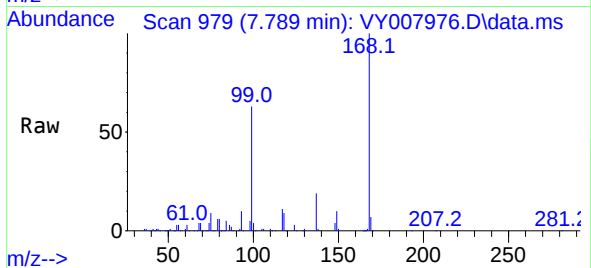




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

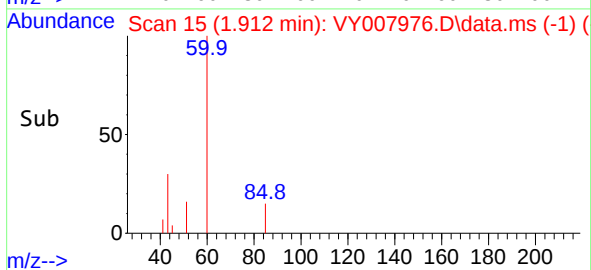
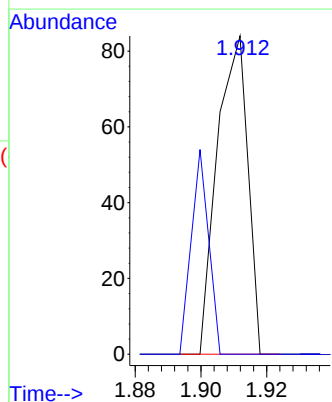
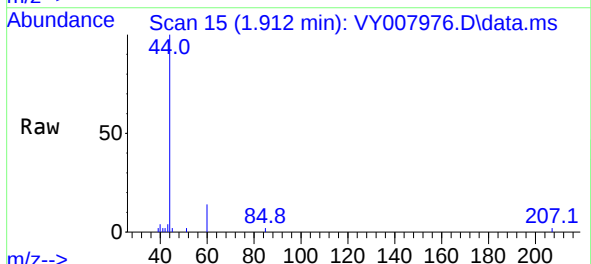
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-20220315-19.0-20.0

Tgt Ion:168 Resp: 215249
Ion Ratio Lower Upper
168 100
99 63.1 46.9 70.3

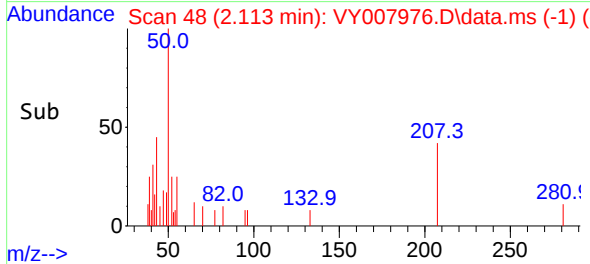
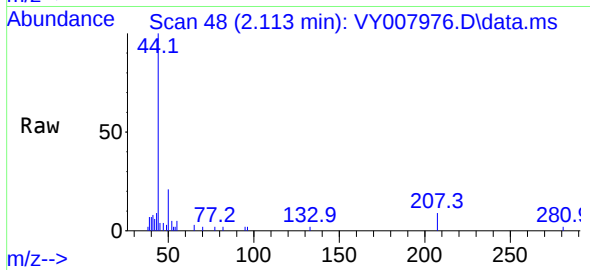
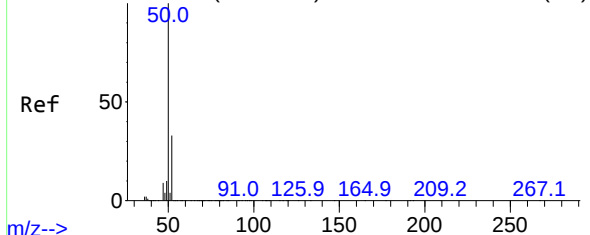


#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.912 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

Tgt Ion: 85 Resp: 54
Ion Ratio Lower Upper
85 100
87 0.0 16.1 48.2#



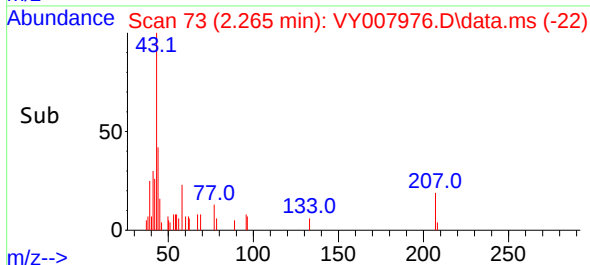
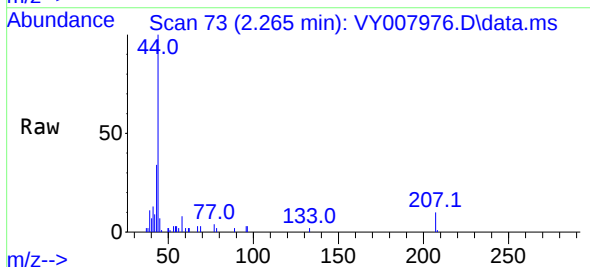
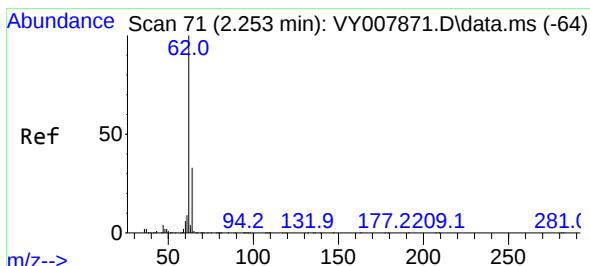
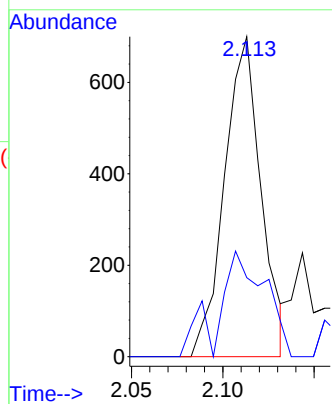
Abundance Scan 48 (2.113 min): VY007871.D\data.ms (-41)



#3
Chloromethane
Concen: Below Cal
RT: 2.113 min Scan# 41
Delta R.T. -0.000 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

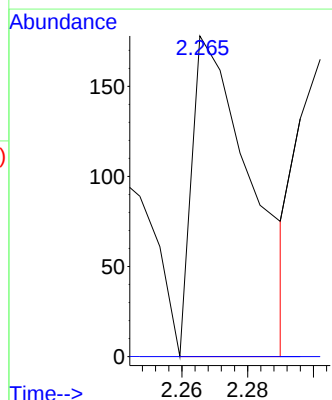
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-20220315-19.0-20.0

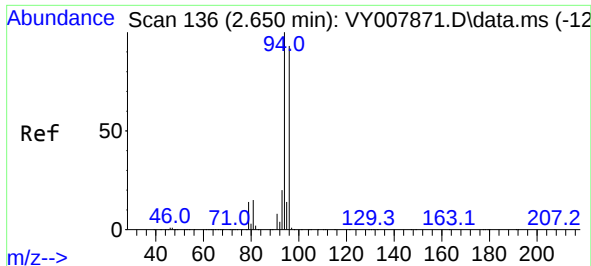
Tgt Ion: 50 Resp: 975
Ion Ratio Lower Upper
50 100
52 24.7 24.6 37.0



#4
Vinyl Chloride
Concen: Below Cal
RT: 2.265 min Scan# 73
Delta R.T. 0.012 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

Tgt Ion: 62 Resp: 223
Ion Ratio Lower Upper
62 100
64 0.0 25.0 37.6#

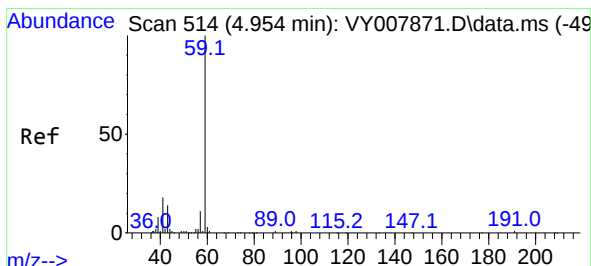
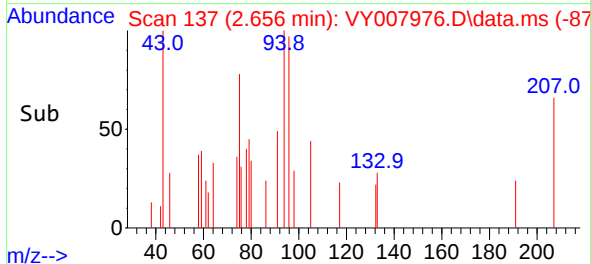
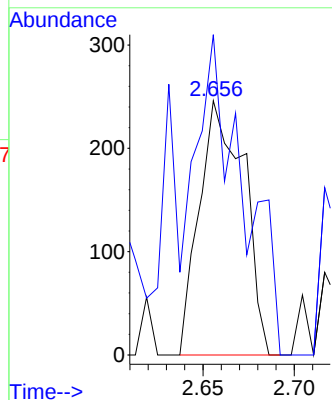
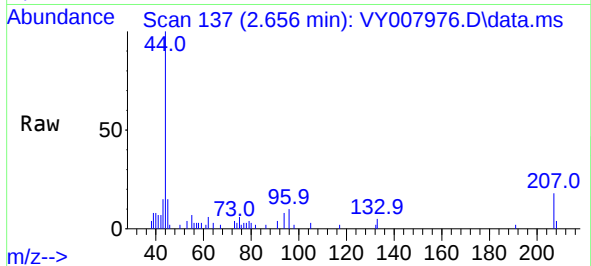




#5
Bromomethane
Concen: Below Cal
RT: 2.656 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

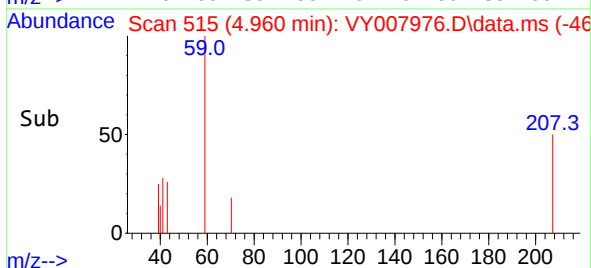
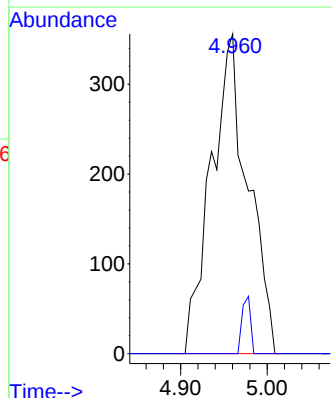
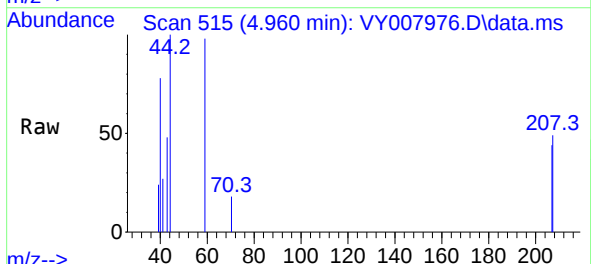
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-20220315-19.0-20.0

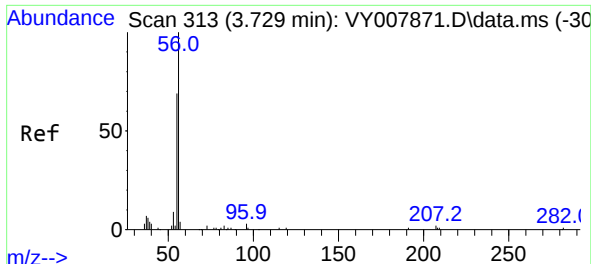
Tgt Ion: 94 Resp: 418
Ion Ratio Lower Upper
94 100
96 126.0 73.5 110.3#



#11
Tert butyl alcohol
Concen: 3.672 ug/l
RT: 4.960 min Scan# 515
Delta R.T. 0.006 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

Tgt Ion: 59 Resp: 1050
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#

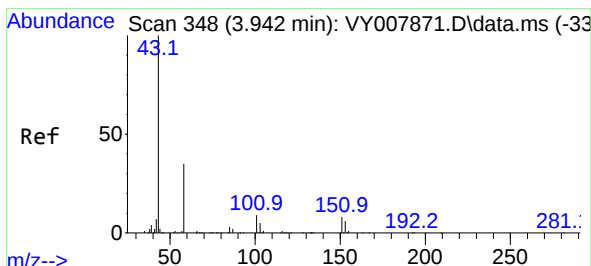
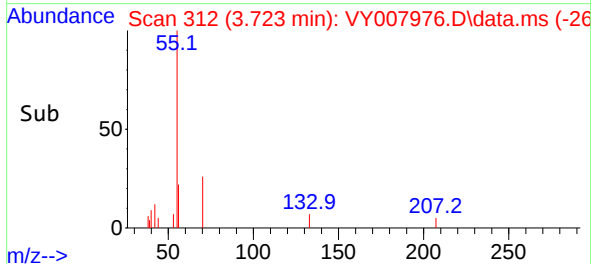
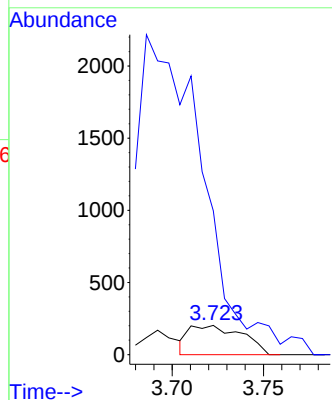
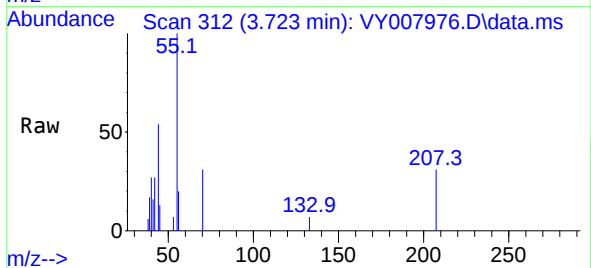




#13
Acrolein
Concen: 2.358 ug/l
RT: 3.723 min Scan# 313
Delta R.T. -0.006 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

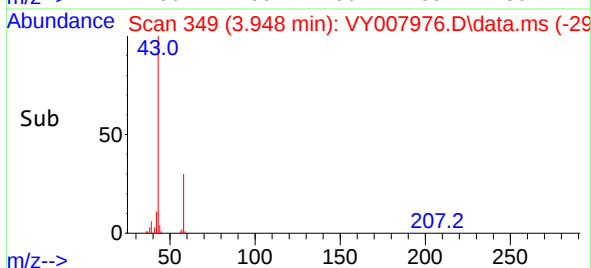
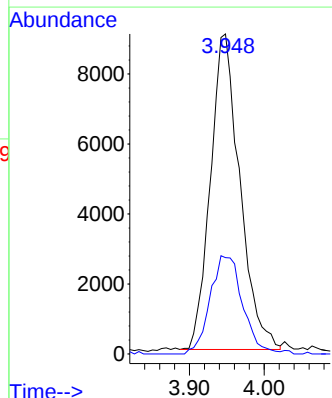
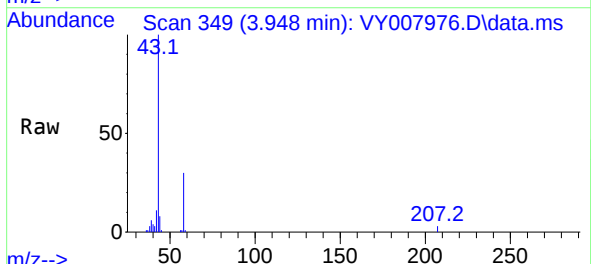
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-20220315-19.0-20.0

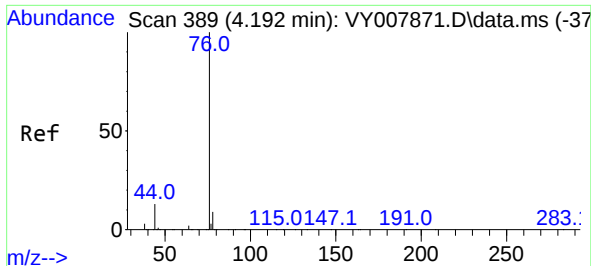
Tgt Ion: 56 Resp: 406
Ion Ratio Lower Upper
56 100
55 0.0 57.6 86.4#



#16
Acetone
Concen: 37.944 ug/l
RT: 3.948 min Scan# 349
Delta R.T. 0.006 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

Tgt Ion: 43 Resp: 24704
Ion Ratio Lower Upper
43 100
58 30.5 22.0 33.0

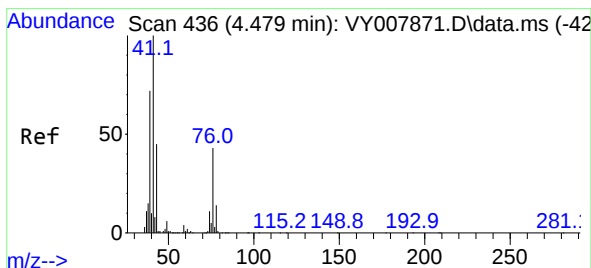
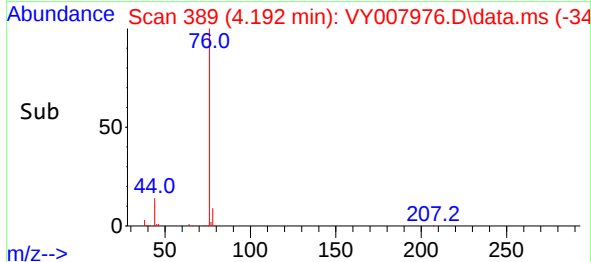
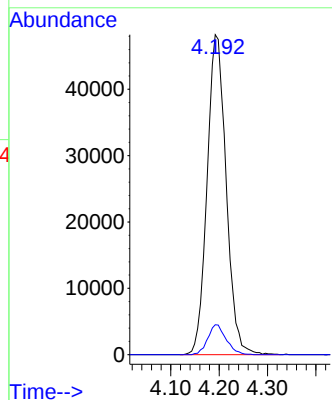
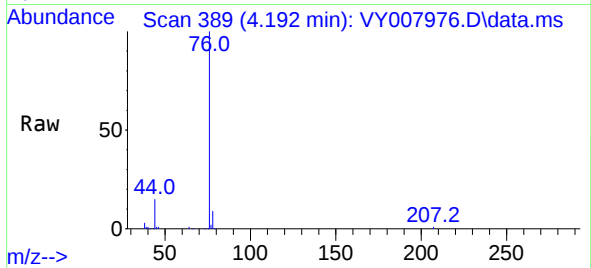




#17
Carbon Disulfide
Concen: 27.205 ug/l
RT: 4.192 min Scan# 31
Delta R.T. -0.000 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

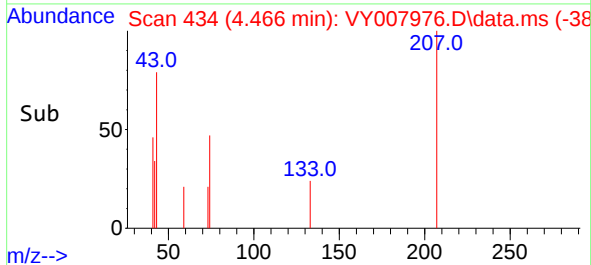
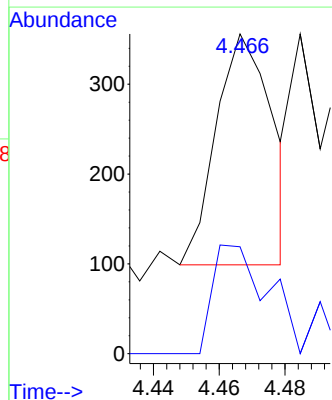
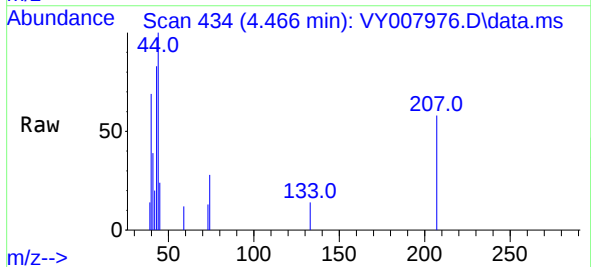
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SB-12-20220315-19.0-20.0

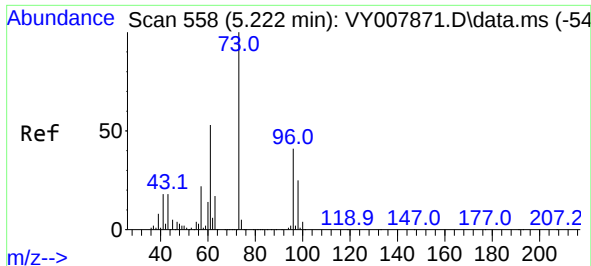
Tgt Ion: 76 Resp: 132203
Ion Ratio Lower Upper
76 100
78 9.4 7.4 11.0



#18
Methyl Acetate
Concen: Below Cal
RT: 4.466 min Scan# 434
Delta R.T. -0.006 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

Tgt Ion: 43 Resp: 306
Ion Ratio Lower Upper
43 100
74 45.8 16.6 24.8#





#19

Methyl tert-butyl Ether

Concen: 5.508 ug/l

RT: 5.216 min Scan# 51

Delta R.T. -0.006 min

Lab File: VY007976.D

Acq: 22 Mar 2022 01:06

Instrument :

MSVOA_Y

ClientSampleId :

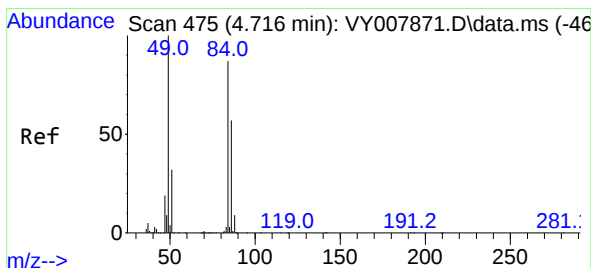
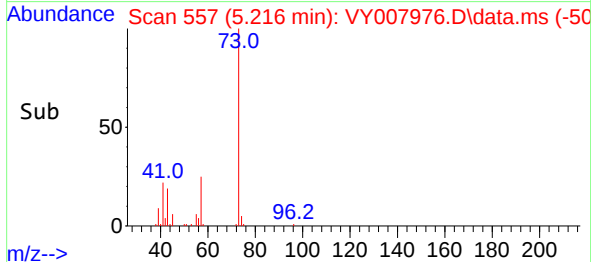
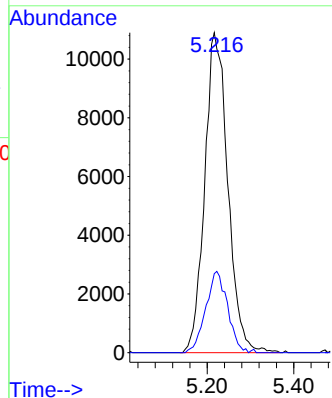
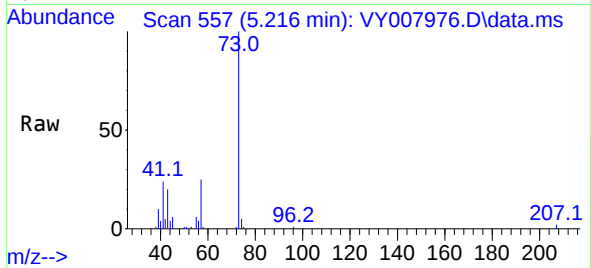
SB-12-20220315-19.0-20.0

Tgt Ion: 73 Resp: 40379

Ion Ratio Lower Upper

73 100

57 24.7 18.6 27.8



#20

Methylene Chloride

Concen: Below Cal

RT: 4.716 min Scan# 475

Delta R.T. -0.000 min

Lab File: VY007976.D

Acq: 22 Mar 2022 01:06

Tgt Ion: 84 Resp: 7128

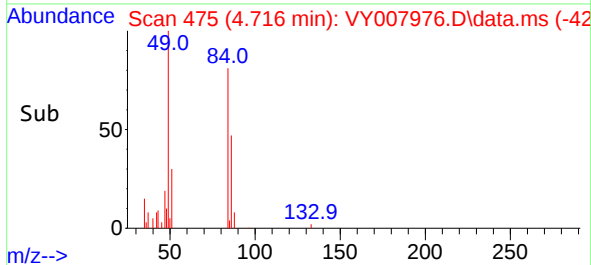
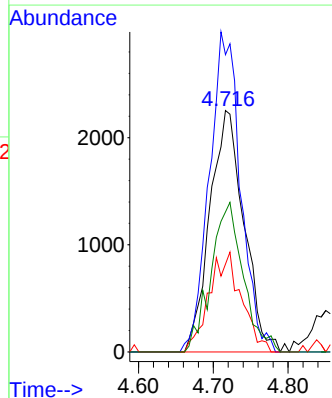
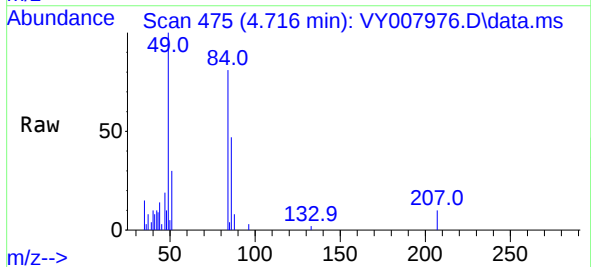
Ion Ratio Lower Upper

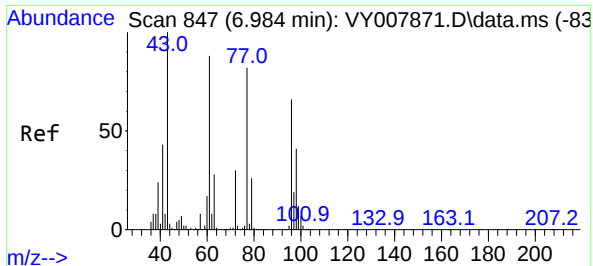
84 100

49 123.1 114.4 171.6

51 36.3 35.3 52.9

86 57.9 53.7 80.5





#25

2-Butanone

Concen: 8.712 ug/l

RT: 6.990 min Scan# 847

Delta R.T. 0.006 min

Lab File: VY007976.D

Acq: 22 Mar 2022 01:06

Instrument :

MSVOA_Y

ClientSampleId :

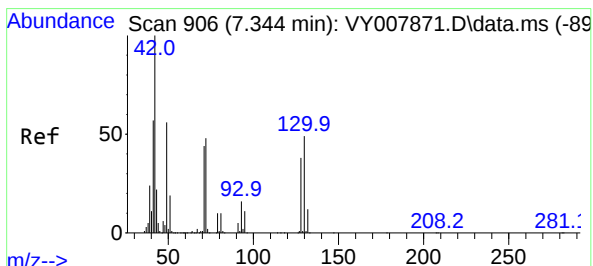
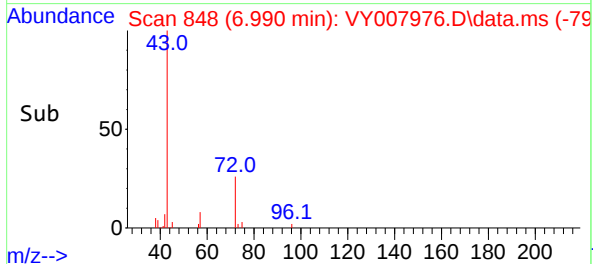
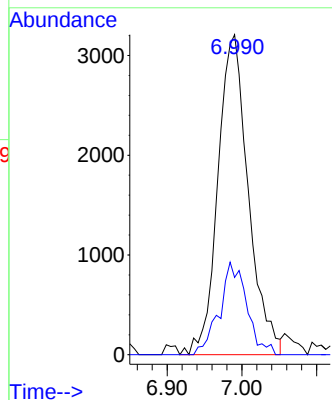
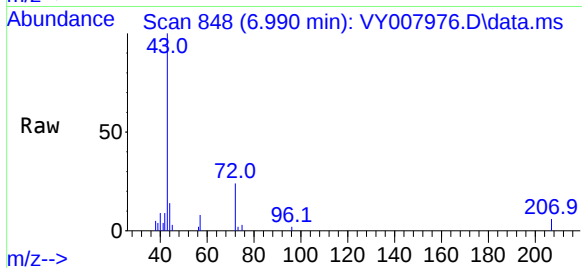
SB-12-20220315-19.0-20.0

Tgt Ion: 43 Resp: 9085

Ion Ratio Lower Upper

43 100

72 24.2 17.7 26.5



#29

Tetrahydrofuran

Concen: 1.342 ug/l

RT: 7.362 min Scan# 909

Delta R.T. 0.018 min

Lab File: VY007976.D

Acq: 22 Mar 2022 01:06

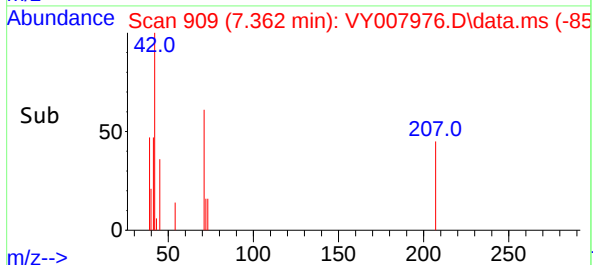
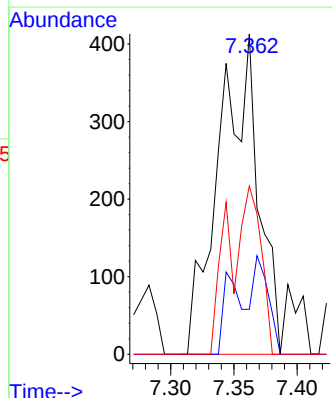
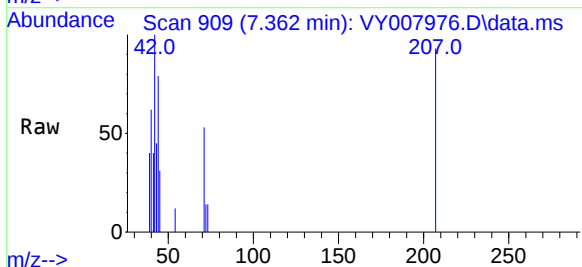
Tgt Ion: 42 Resp: 897

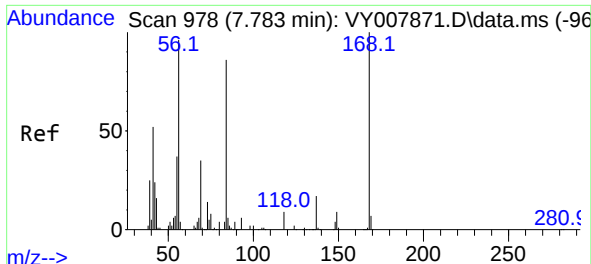
Ion Ratio Lower Upper

42 100

72 11.4 30.3 45.5#

71 27.2 29.0 43.4#

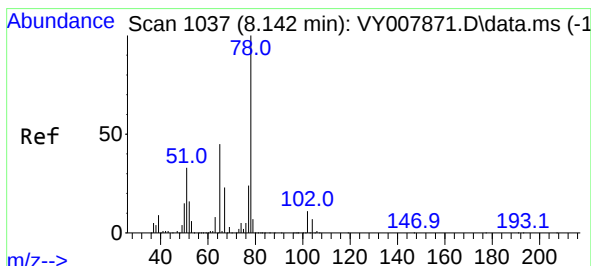
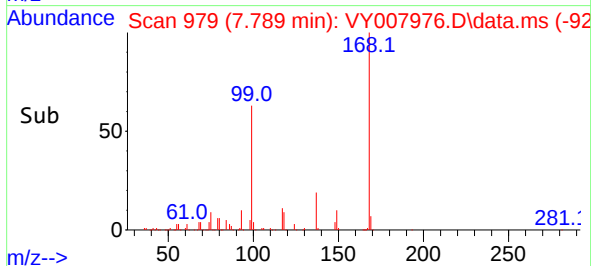
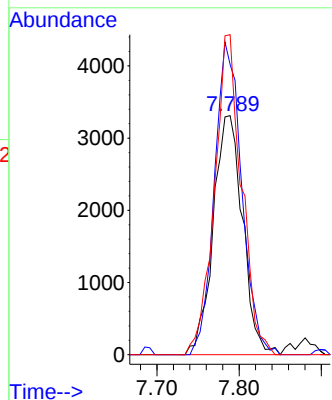
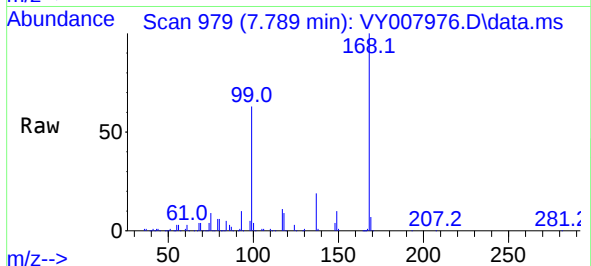




#31
Cyclohexane
Concen: Below Cal
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

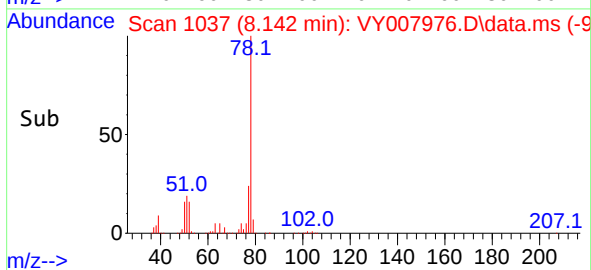
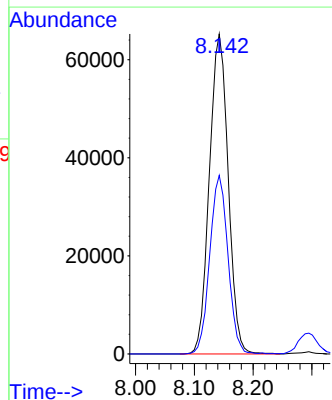
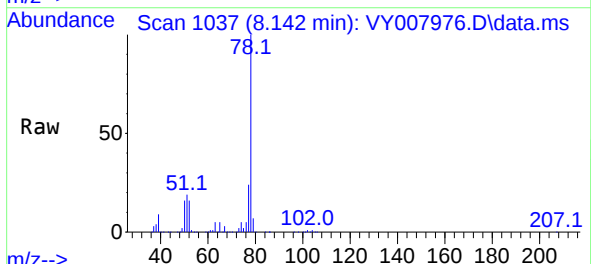
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-20220315-19.0-20.0

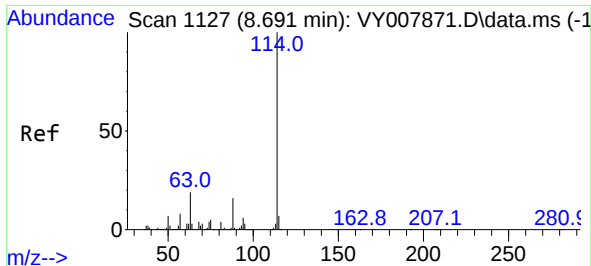
Tgt Ion: 56 Resp: 8220
Ion Ratio Lower Upper
56 100
69 121.4 26.7 40.1#
84 133.9 67.2 100.8#



#33
1,2-Dichloroethane-d4
Concen: 59.125 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. 0.006 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

Tgt Ion: 65 Resp: 145106
Ion Ratio Lower Upper
65 100
67 54.1 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: VY007976.D

Acq: 22 Mar 2022 01:06

Instrument :

MSVOA_Y

ClientSampleId :

SB-12-20220315-19.0-20.0

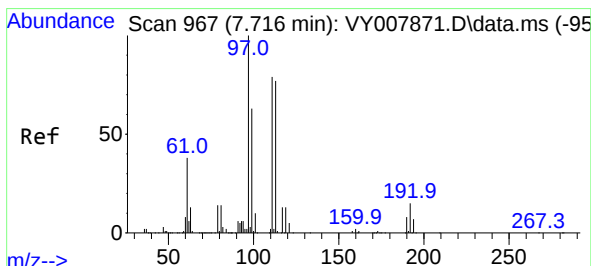
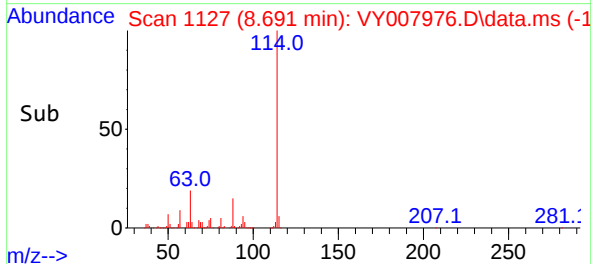
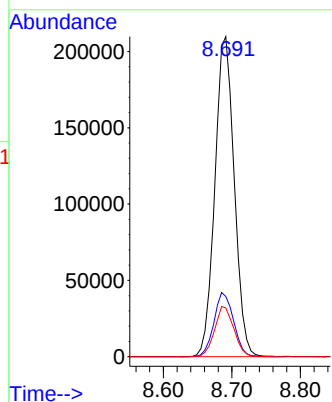
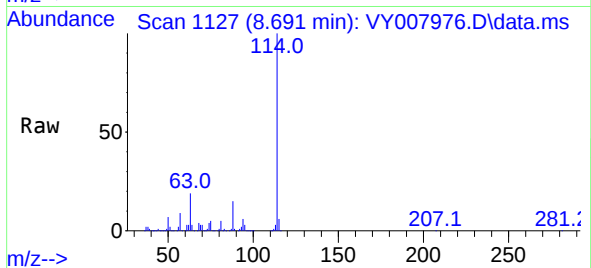
Tgt Ion:114 Resp: 411321

Ion Ratio Lower Upper

114 100

63 18.8 0.0 43.2

88 15.2 0.0 31.8



#35

Dibromofluoromethane

Concen: 42.788 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY007976.D

Acq: 22 Mar 2022 01:06

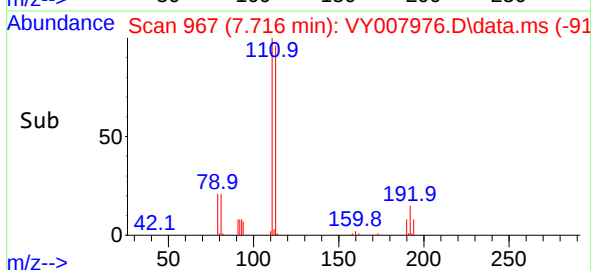
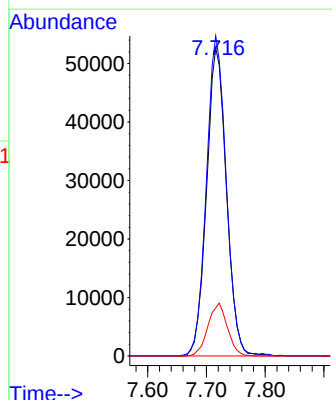
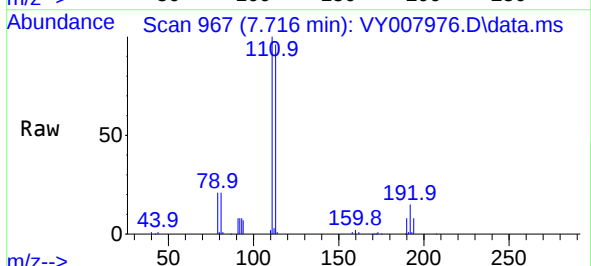
Tgt Ion:113 Resp: 123600

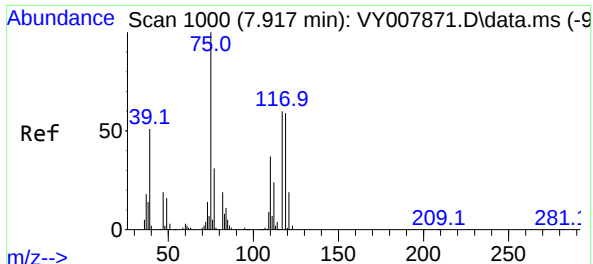
Ion Ratio Lower Upper

113 100

111 103.7 82.6 124.0

192 16.8 17.6 26.4#

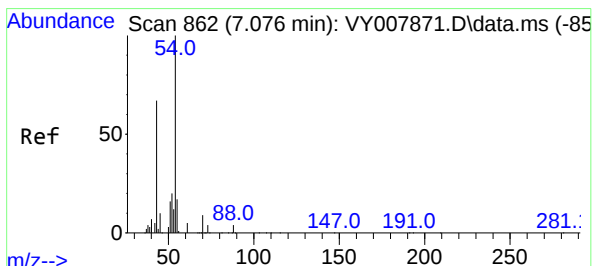
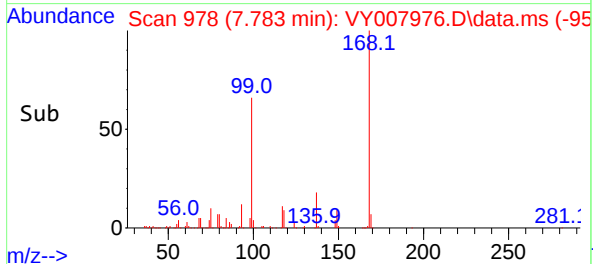
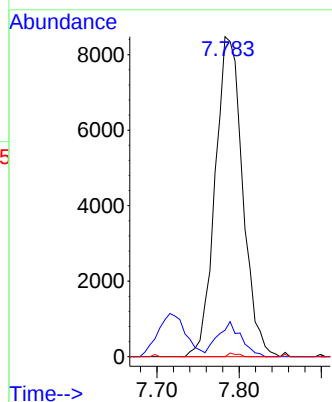
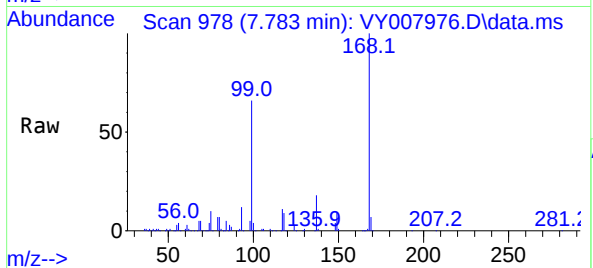




#36
1,1-Dichloropropene
Concen: 4.600 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.134 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

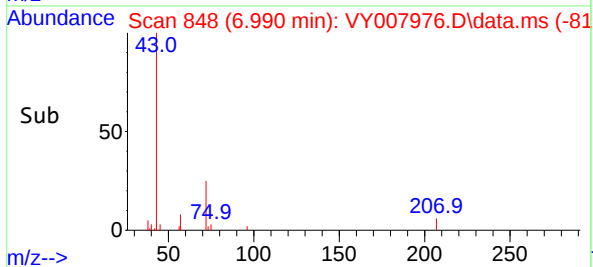
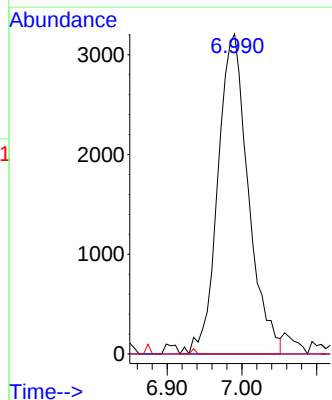
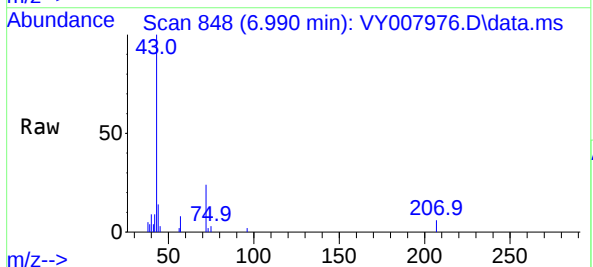
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-20220315-19.0-20.0

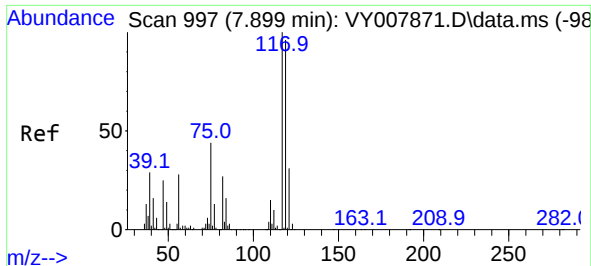
Tgt Ion: 75 Resp: 19707
Ion Ratio Lower Upper
75 100
110 9.3 17.1 51.2#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 3.475 ug/l
RT: 6.990 min Scan# 848
Delta R.T. -0.079 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

Tgt Ion: 43 Resp: 9085
Ion Ratio Lower Upper
43 100
61 0.0 9.7 14.5#
70 0.0 7.1 10.7#

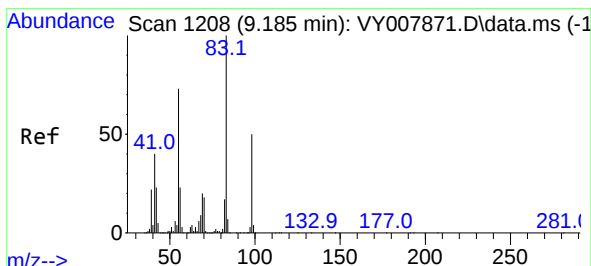
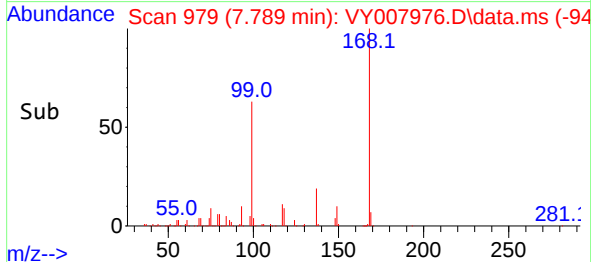
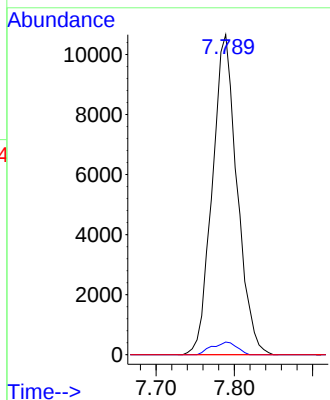
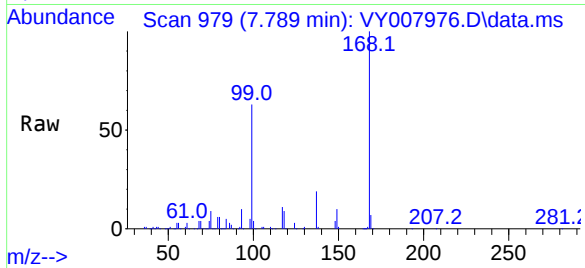




#38
Carbon Tetrachloride
Concen: 5.120 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

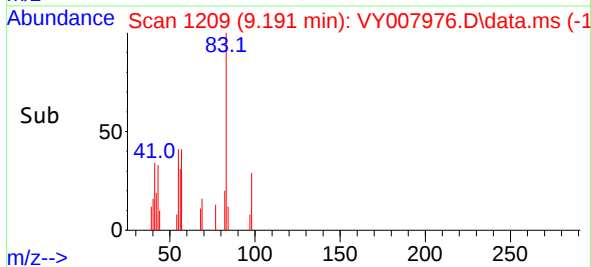
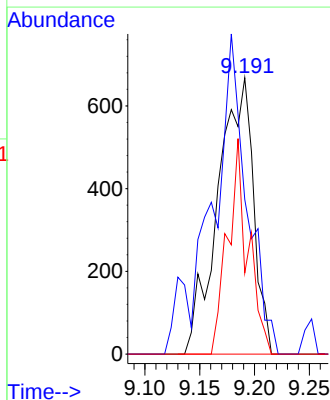
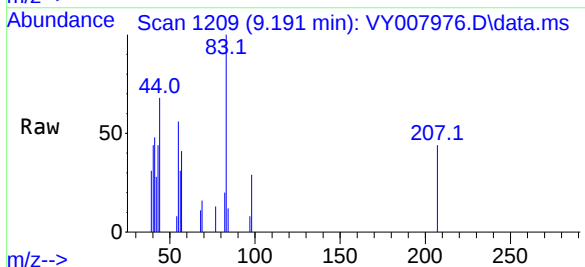
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-20220315-19.0-20.0

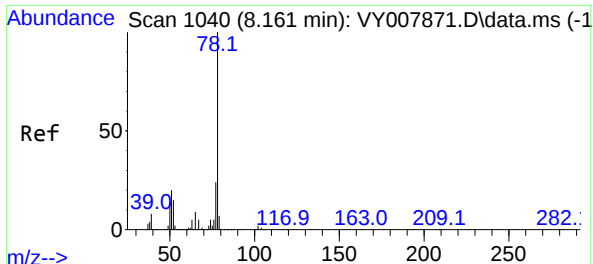
Tgt Ion:117 Resp: 23441
Ion Ratio Lower Upper
117 100
119 3.9 77.9 116.9#
121 0.0 24.8 37.2#



#39
Methylcyclohexane
Concen: Below Cal
RT: 9.191 min Scan# 1209
Delta R.T. 0.006 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

Tgt Ion: 83 Resp: 1505
Ion Ratio Lower Upper
83 100
55 56.0 66.5 99.7#
98 29.3 37.9 56.9#

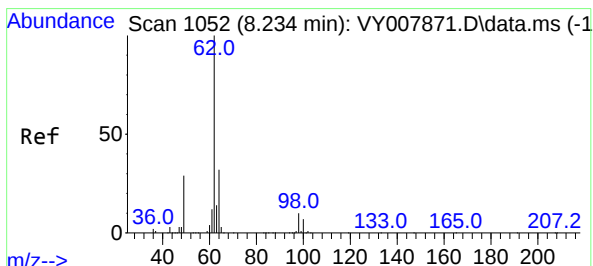
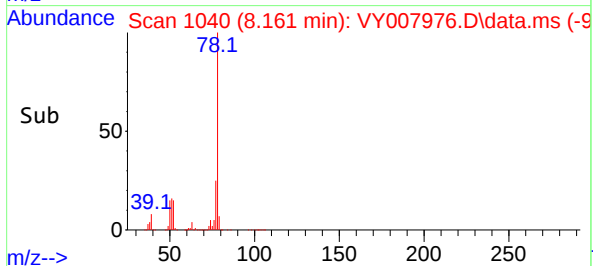
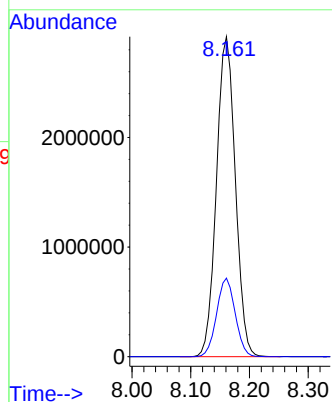
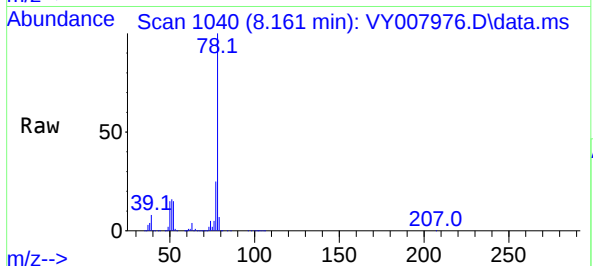




#40
Benzene
Concen: 519.736 ug/l
RT: 8.161 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

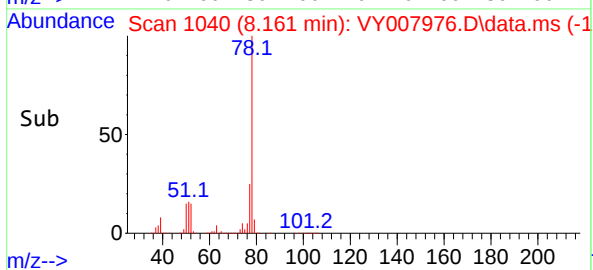
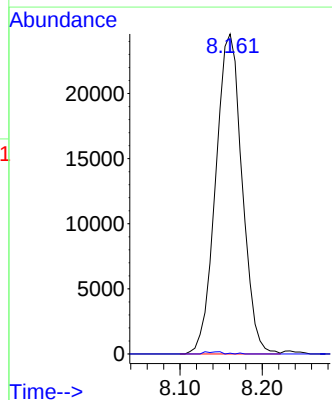
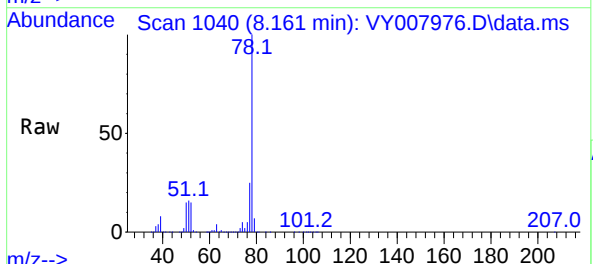
Instrument : MSVOA_Y
ClientSampleId : SB-12-20220315-19.0-20.0

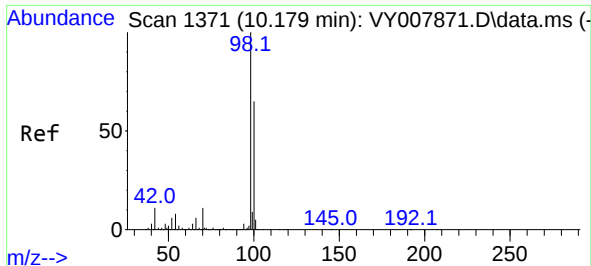
Tgt Ion: 78 Resp: 6507171
Ion Ratio Lower Upper
78 100
77 24.5 20.4 30.6



#42
1,2-Dichloroethane
Concen: 15.138 ug/l
RT: 8.161 min Scan# 1040
Delta R.T. -0.073 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

Tgt Ion: 62 Resp: 54876
Ion Ratio Lower Upper
62 100
98 0.5 0.0 14.8

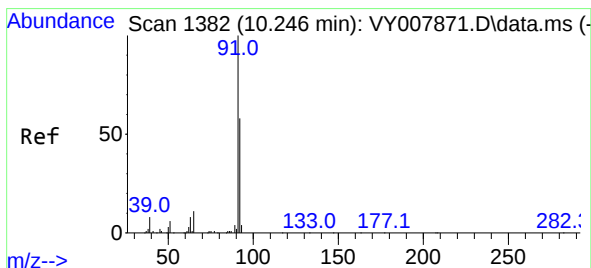
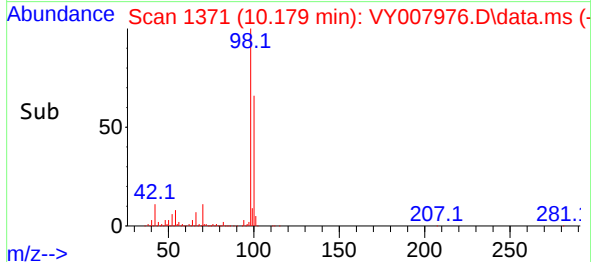
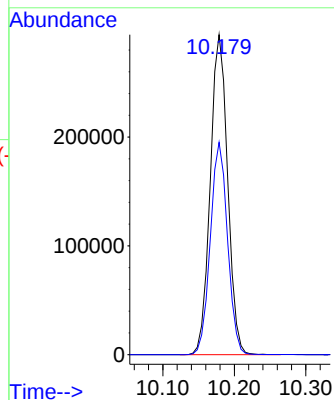
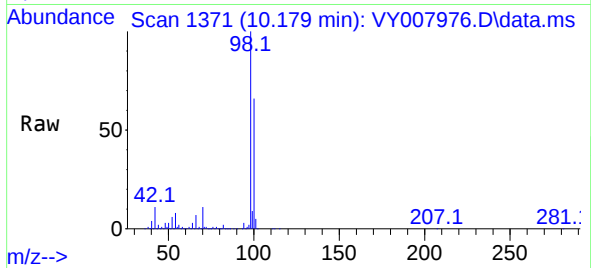




#50
Toluene-d8
Concen: 57.697 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

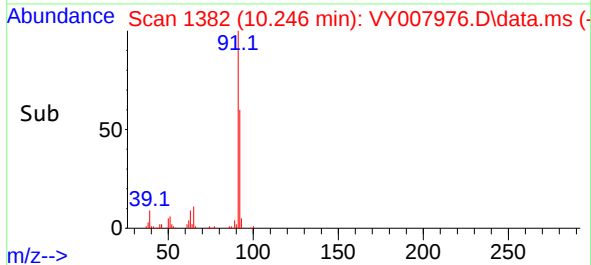
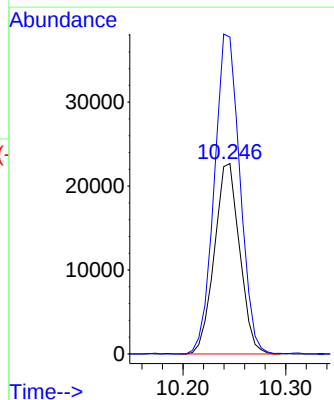
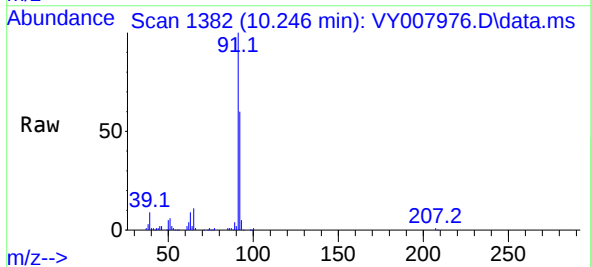
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-20220315-19.0-20.0

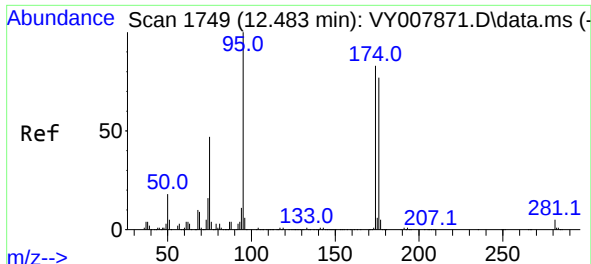
Tgt Ion: 98 Resp: 495348
Ion Ratio Lower Upper
98 100
100 65.8 50.2 75.2



#52
Toluene
Concen: 4.813 ug/l
RT: 10.246 min Scan# 1382
Delta R.T. -0.000 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

Tgt Ion: 92 Resp: 38697
Ion Ratio Lower Upper
92 100
91 170.4 142.6 213.8

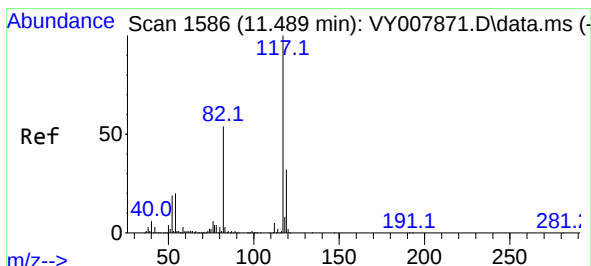
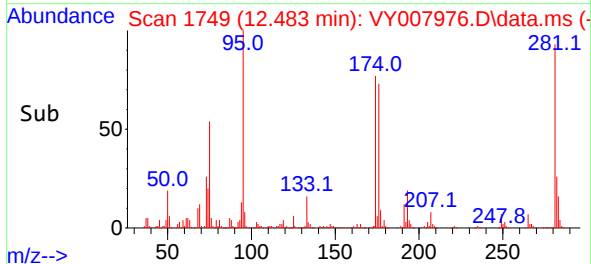
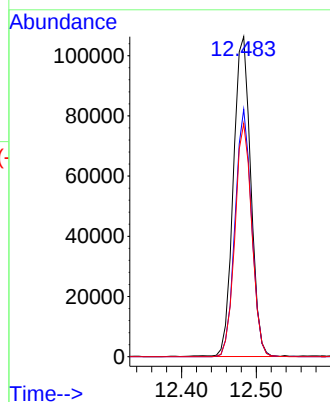
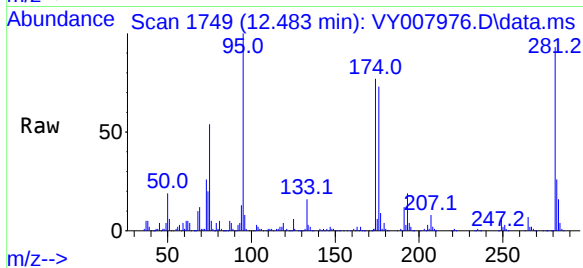




#62
4-Bromofluorobenzene
Concen: 41.510 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

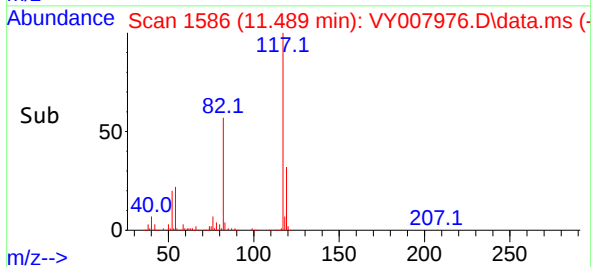
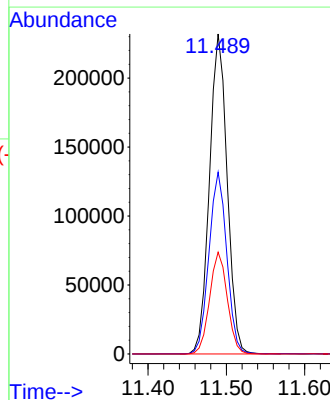
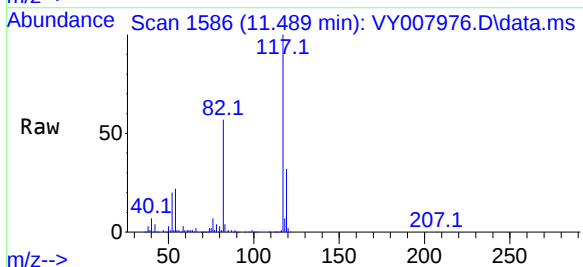
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-20220315-19.0-20.0

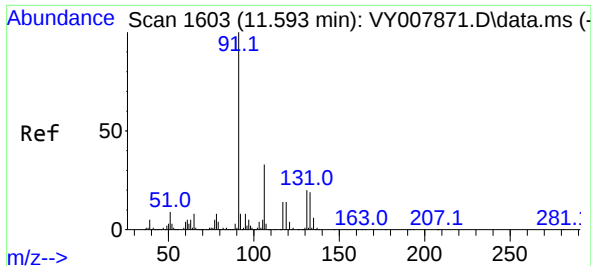
Tgt Ion: 95 Resp: 172094
Ion Ratio Lower Upper
95 100
174 73.3 0.0 177.0
176 70.3 0.0 175.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. -0.000 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

Tgt Ion: 117 Resp: 364169
Ion Ratio Lower Upper
117 100
82 56.8 43.0 64.4
119 31.8 25.4 38.0

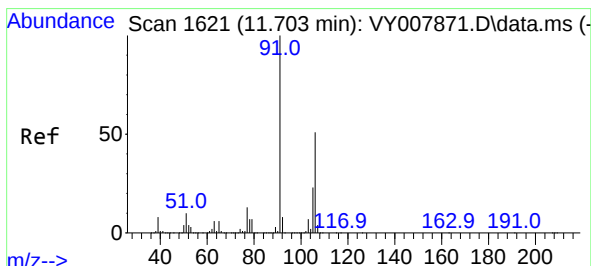
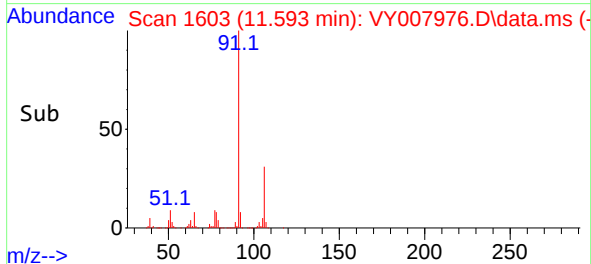
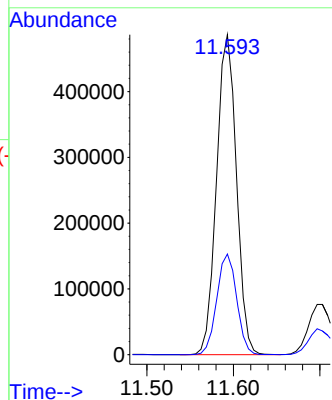
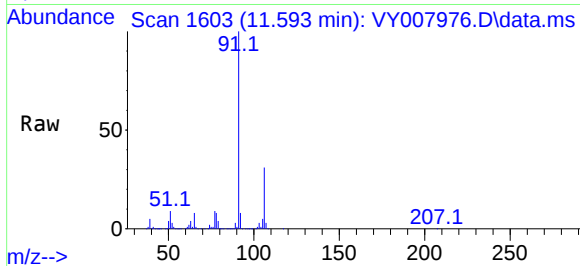




#67
Ethyl Benzene
Concen: 49.944 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. -0.000 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

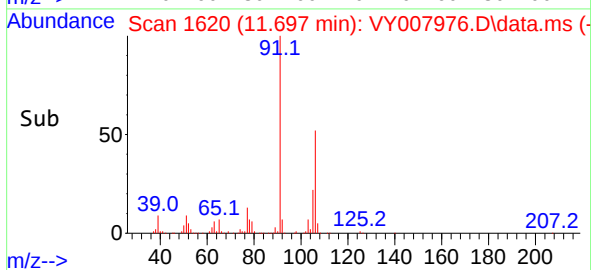
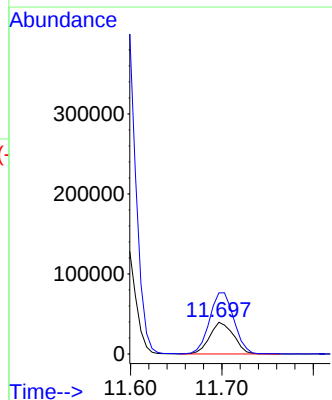
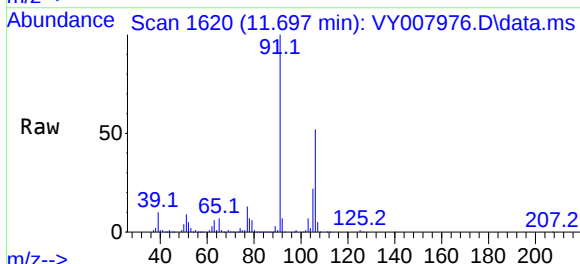
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-20220315-19.0-20.0

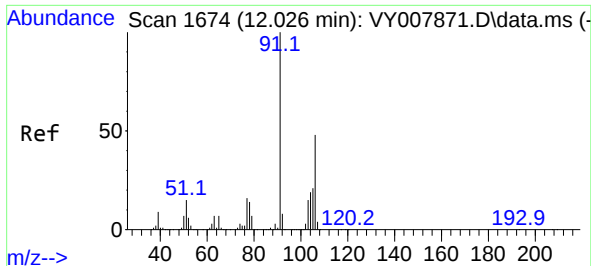
Tgt Ion: 91 Resp: 776125
Ion Ratio Lower Upper
91 100
106 31.5 24.5 36.7



#68
m/p-Xylenes
Concen: 11.862 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.006 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

Tgt Ion:106 Resp: 71903
Ion Ratio Lower Upper
106 100
91 198.1 166.6 249.8

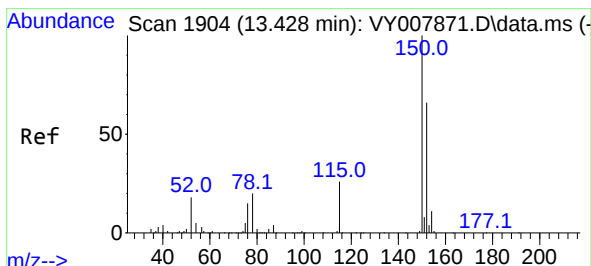
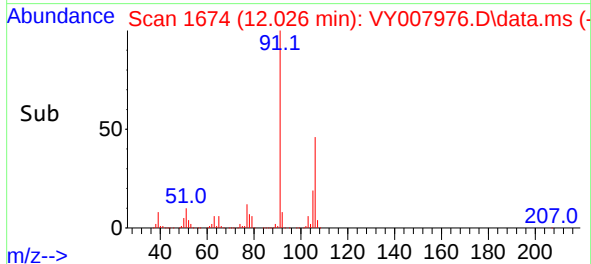
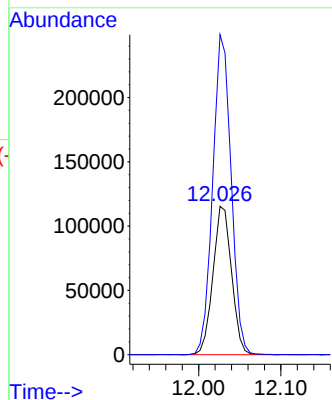
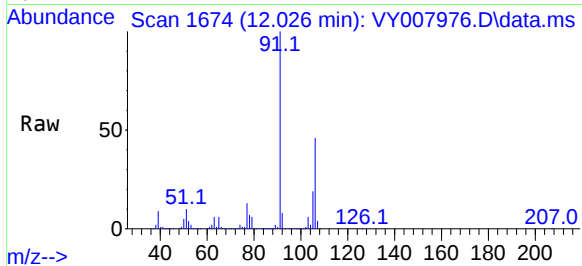




#69
o-Xylene
Concen: 30.922 ug/l
RT: 12.026 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

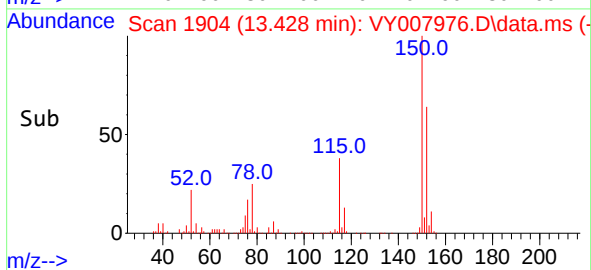
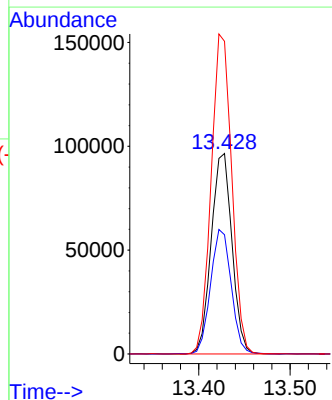
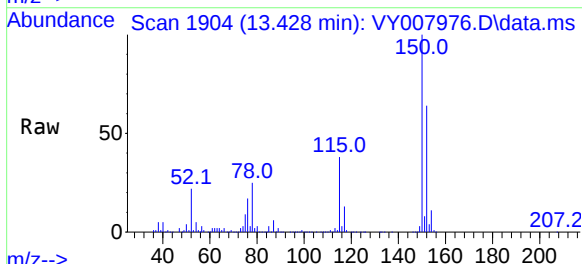
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-20220315-19.0-20.0

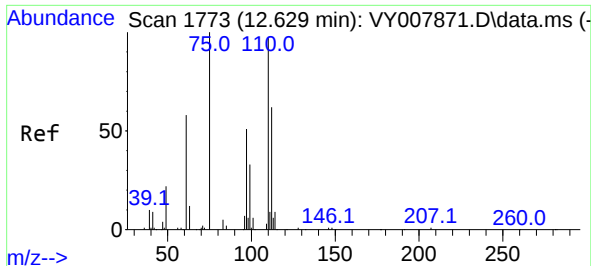
Tgt Ion:106 Resp: 181307
Ion Ratio Lower Upper
106 100
91 213.6 110.3 331.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

Tgt Ion:152 Resp: 152601
Ion Ratio Lower Upper
152 100
115 61.7 28.2 84.7
150 157.8 0.0 347.6

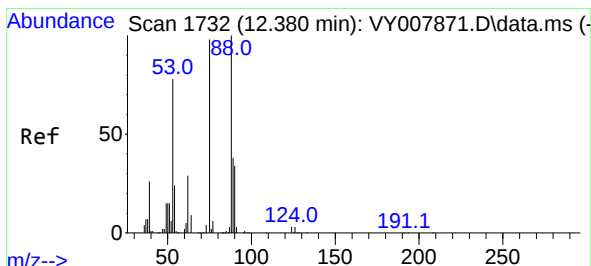
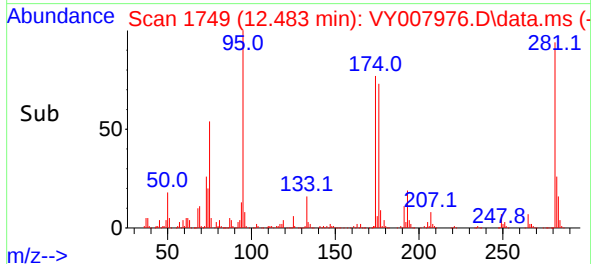
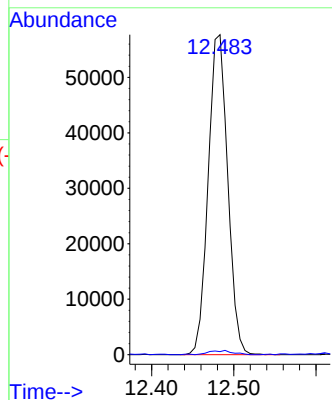
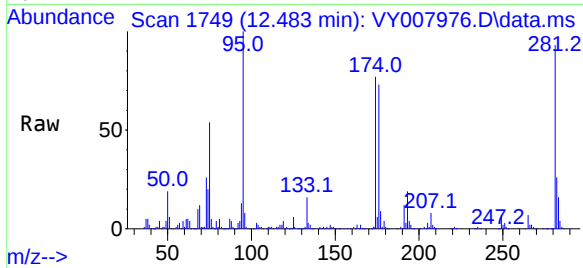




#76
1,2,3-Trichloropropane
Concen: 43.710 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.153 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

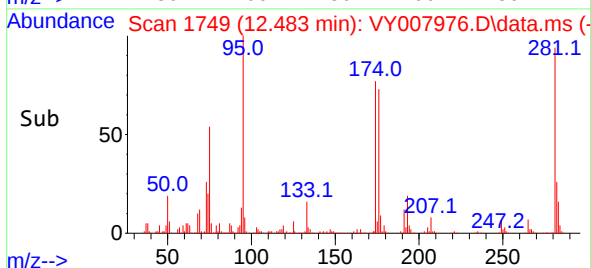
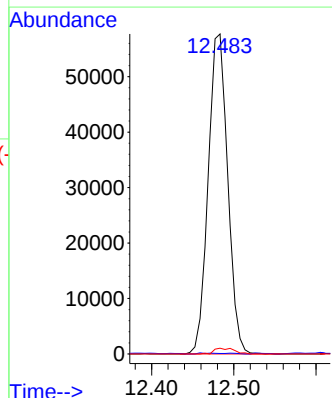
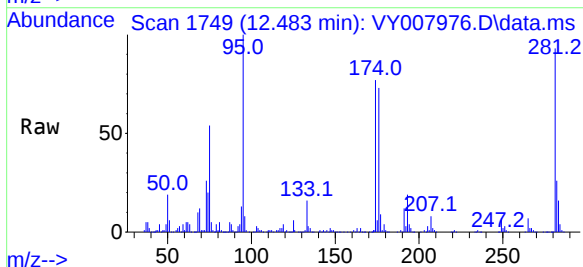
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-20220315-19.0-20.0

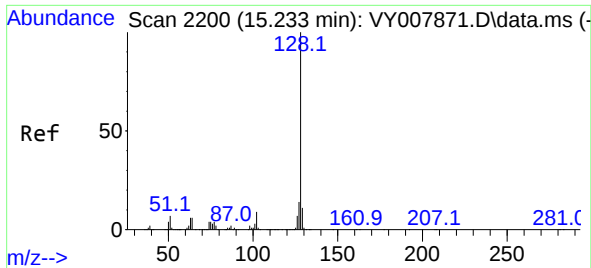
Tgt Ion: 75 Resp: 95073
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 91.809 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.103 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

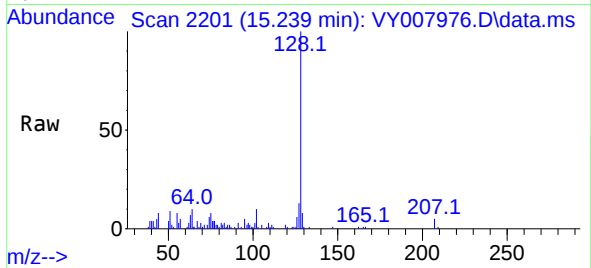
Tgt Ion: 75 Resp: 95073
Ion Ratio Lower Upper
75 100
53 0.0 85.3 127.9#
89 1.9 37.0 55.4#





#95
Naphthalene
Concen: 1.936 ug/l
RT: 15.239 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY007976.D
Acq: 22 Mar 2022 01:06

Instrument :
MSVOA_Y
ClientSampleId :
SB-12-20220315-19.0-20.0



Tgt Ion:	128	Resp:	14722
Ion	Ratio	Lower	Upper
128	100		
127	13.1	11.0	16.4
129	10.6	8.4	12.6

