

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111122\
 Data File : VW028920.D
 Acq On : 12 Nov 2022 09:57
 Operator : SY/MD
 Sample : N5602-18
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 COAH0

Quant Time: Nov 14 00:26:42 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR111122WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Nov 12 03:43:58 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	5.612	114	311916	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.847	117	289602	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.242	152	148899	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	85201	4.480	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.600%
7) Chloroethane-d5	1.564	69	81311	4.864	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.200%
11) 1,1-Dichloroethene-d2	2.104	63	115217	3.325	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	66.400%
20) 2-Butanone-d5	3.902	46	130469	40.987	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	81.980%
24) Chloroform-d	4.342	84	184425	4.724	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.400%
26) 1,2-Dichloroethane-d4	5.030	65	81636	4.647	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.000%
32) Benzene-d6	5.046	84	381168	4.410	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.200%
36) 1,2-Dichloropropane-d6	6.066	67	115172	4.771	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.400%
41) Toluene-d8	7.310	98	351795	4.521	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.400%
43) trans-1,3-Dichloroprop...	7.619	79	34473	4.379	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.600%
46) 2-Hexanone-d5	8.085	63	174508	51.931	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.860%
56) 1,1,2,2-Tetrachloroeth...	10.210	84	85203	5.091	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.800%
66) 1,2-Dichlorobenzene-d4	11.615	152	135389	5.082	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.291	50	14243	0.660	ug/L #	74
5) Vinyl chloride	1.310	62	1430	0.058	ug/L #	1
8) Chloroethane	1.387	64	1311323	90.658	ug/L #	52
13) Acetone	2.188	43	910706	444.758	ug/L	85
14) Carbon disulfide	2.291	76	38174	0.569	ug/L	100
15) Methyl Acetate	2.436	43	38754	7.799	ug/L #	83
19) 1,1-Dichloroethane	3.185	63	28480	0.796	ug/L	98
21) 2-Butanone	3.976	43	230637	72.752	ug/L	87
22) cis-1,2-Dichloroethene	3.908	96	5173	0.232	ug/L #	37
27) 1,2-Dichloroethane	5.140	62	1674	0.087	ug/L #	70
30) Cyclohexane	4.670	56	19635	0.568	ug/L	96
33) Benzene	5.098	78	60880	0.688	ug/L	100
35) Methylcyclohexane	6.124	83	68876	1.730	ug/L #	89
38) Bromodichloromethane	6.452	83	1159	0.045	ug/L #	79
39) cis-1,3-Dichloropropene	6.982	75	2419	0.085	ug/L #	27
40) 4-Methyl-2-pentanone	7.223	43	168242	19.161	ug/L	92
42) Toluene	7.387	91	59162	0.619	ug/L	99
44) trans-1,3-Dichloropropene	7.622	75	1833	0.083	ug/L #	53
45) 1,1,2-Trichloroethane	7.779	97	20602	1.542	ug/L #	21

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

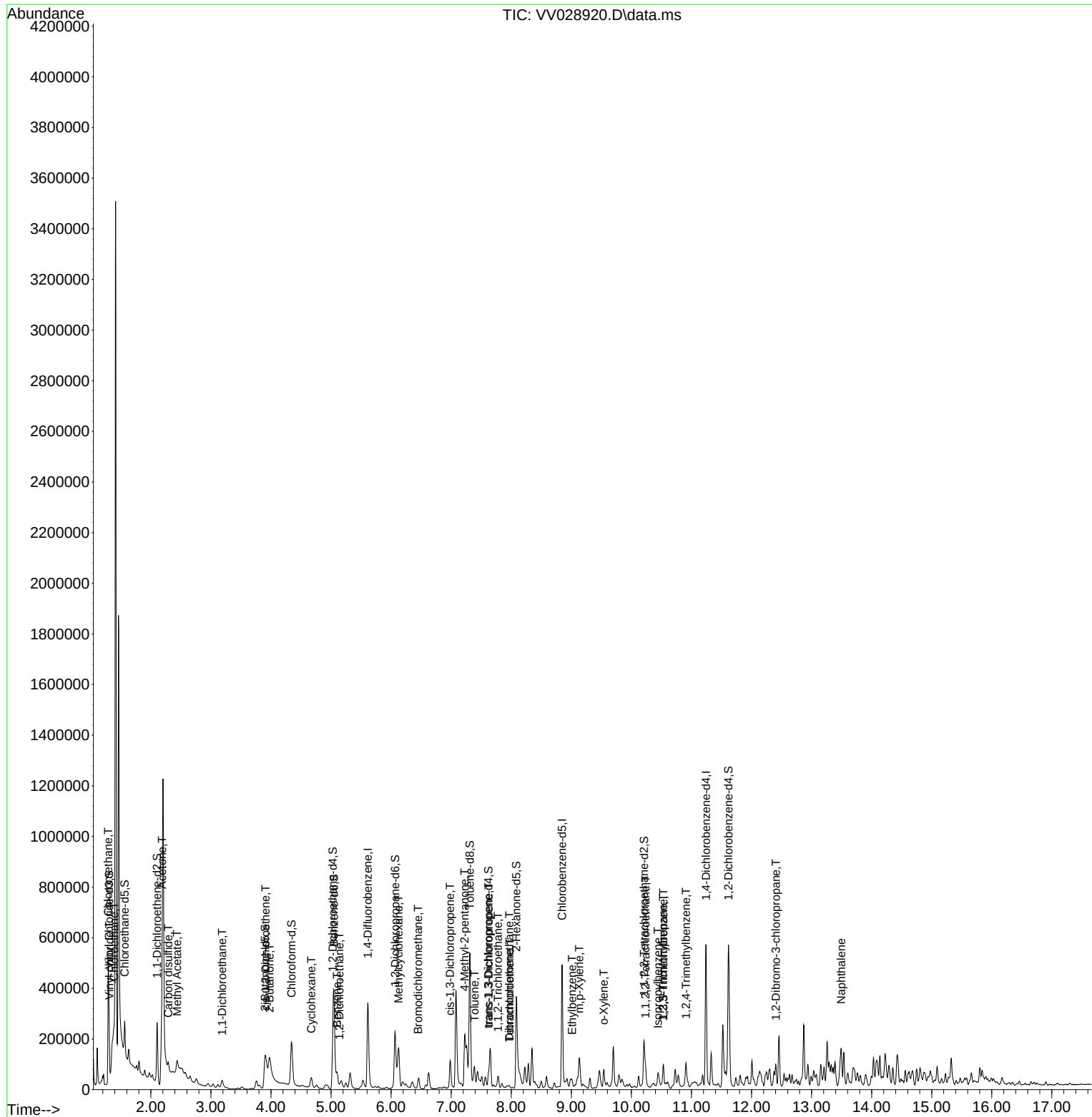
47) Tetrachloroethene	7.976	164	1078	0.059	ug/L #	73
49) Dibromochloromethane	7.969	129	853	0.053	ug/L #	10
52) Ethylbenzene	9.011	91	20355	0.205	ug/L	98
53) m,p-Xylene	9.133	106	23231	0.587	ug/L	99
54) o-Xylene	9.538	106	18228	0.484	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.233	83	6173	0.396	ug/L #	34
60) Isopropylbenzene	10.442	105	29058	0.301	ug/L	96
61) 1,2,3-Trichloropropane	10.529	75	628	0.062	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.532	105	47082	0.575	ug/L	99
63) 1,2,4-Trimethylbenzene	10.908	105	49286	0.601	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.406	75	319	0.159	ug/L #	2
71) Naphthalene	13.493	128	97975	2.865	ug/L #	93

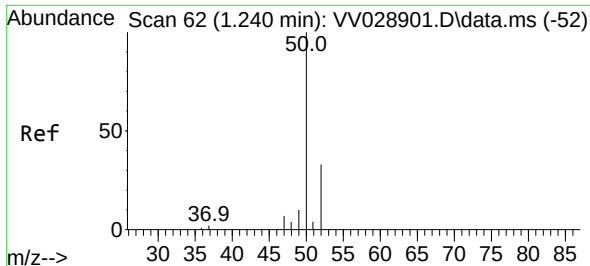
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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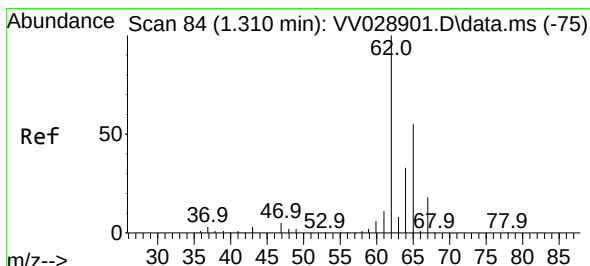
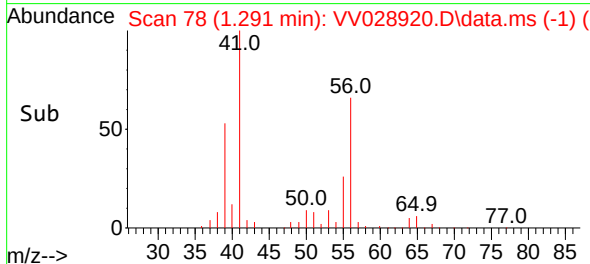
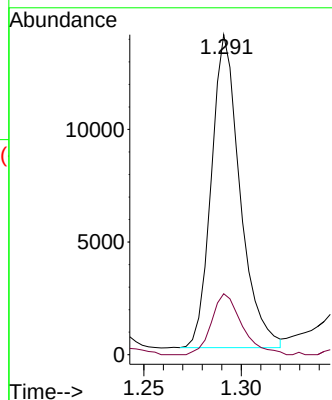
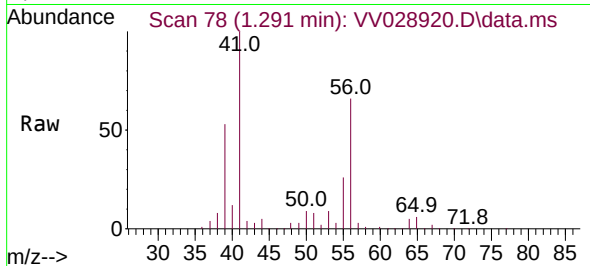




#3
Chloromethane
Concen: 0.660 ug/L
RT: 1.291 min Scan# 71
Delta R.T. 0.051 min
Lab File: VV028920.D
Acq: 12 Nov 2022 09:57

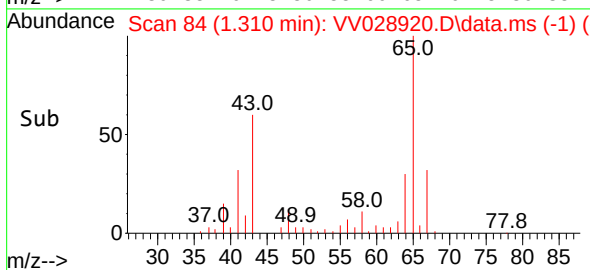
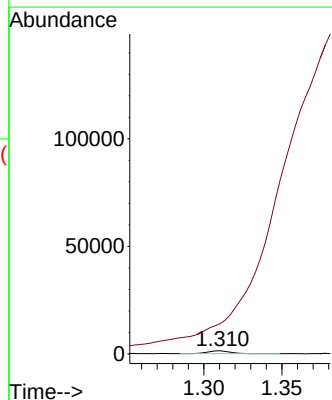
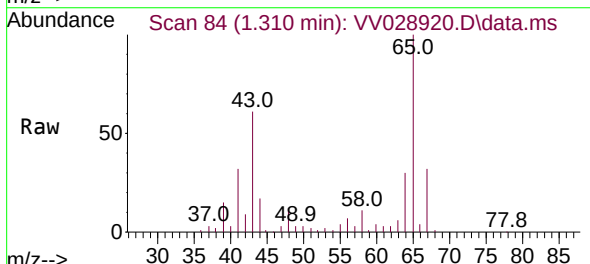
Instrument :
MSVOA_V
ClientSampleId :
COAH0

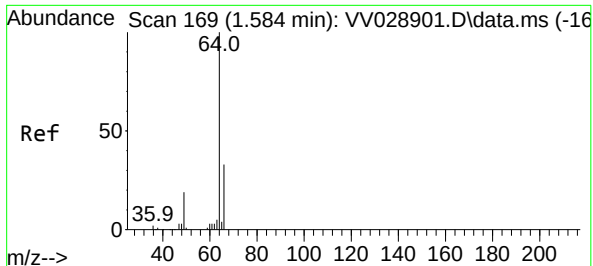
Tgt Ion: 50 Resp: 14243
Ion Ratio Lower Upper
50 100
52 19.0 23.7 43.9#



#5
Vinyl chloride
Concen: 0.058 ug/L
RT: 1.310 min Scan# 84
Delta R.T. -0.000 min
Lab File: VV028920.D
Acq: 12 Nov 2022 09:57

Tgt Ion: 62 Resp: 1430
Ion Ratio Lower Upper
62 100
64 947.4 22.8 42.4#

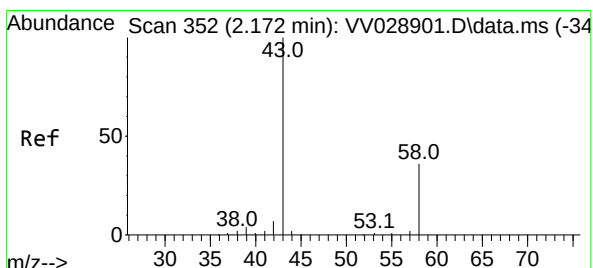
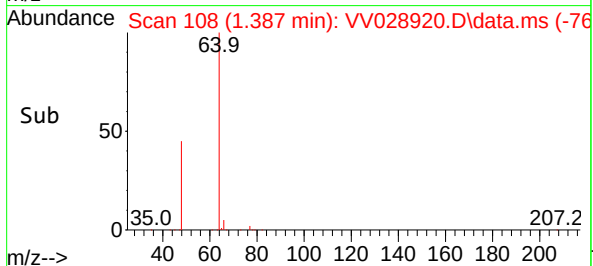
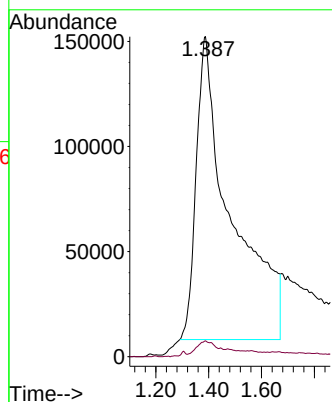
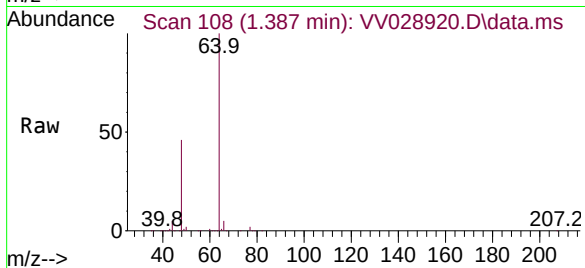




#8
Chloroethane
Concen: 90.658 ug/L
RT: 1.387 min Scan# 108
Delta R.T. -0.196 min
Lab File: VV028920.D
Acq: 12 Nov 2022 09:57

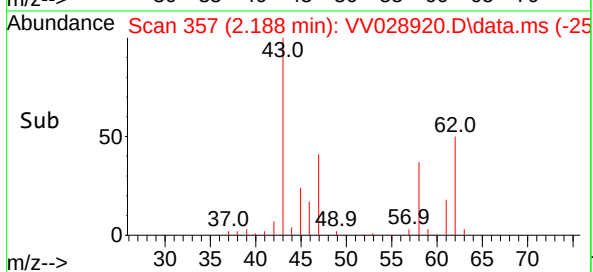
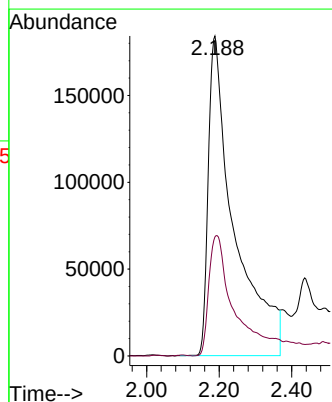
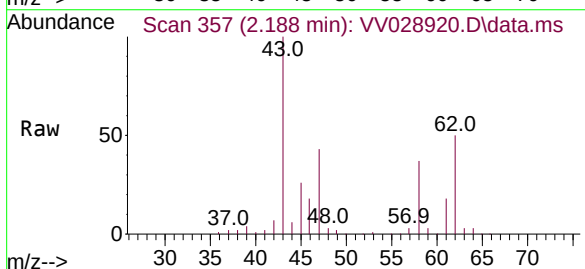
Instrument :
MSVOA_V
ClientSampleId :
COAH0

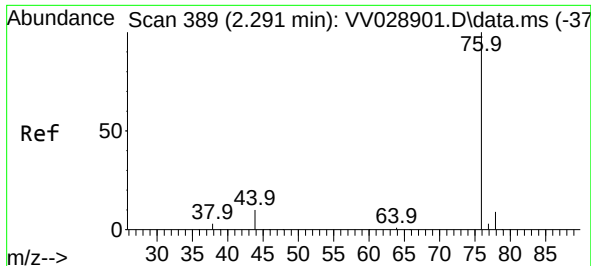
Tgt Ion: 64 Resp: 1311323
Ion Ratio Lower Upper
64 100
66 5.0 22.0 40.8#



#13
Acetone
Concen: 444.758 ug/L
RT: 2.188 min Scan# 357
Delta R.T. 0.016 min
Lab File: VV028920.D
Acq: 12 Nov 2022 09:57

Tgt Ion: 43 Resp: 910706
Ion Ratio Lower Upper
43 100
58 36.0 0.0 56.6

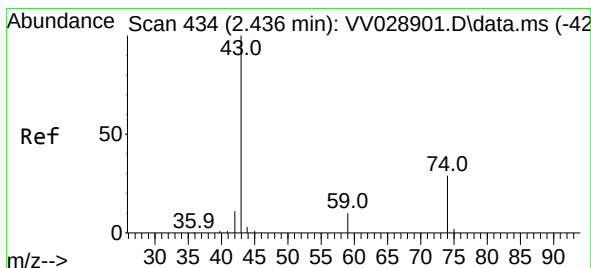
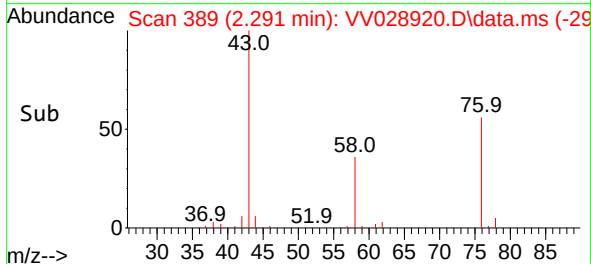
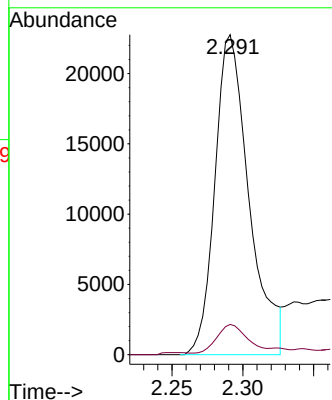
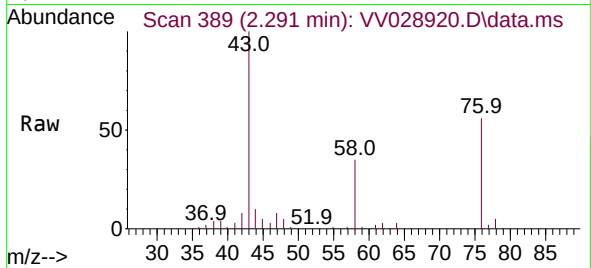




#14
Carbon disulfide
Concen: 0.569 ug/L
RT: 2.291 min Scan# 389
Delta R.T. -0.000 min
Lab File: VV028920.D
Acq: 12 Nov 2022 09:57

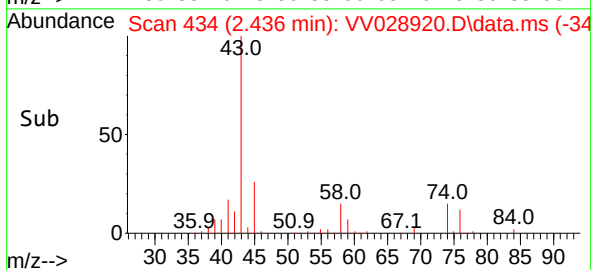
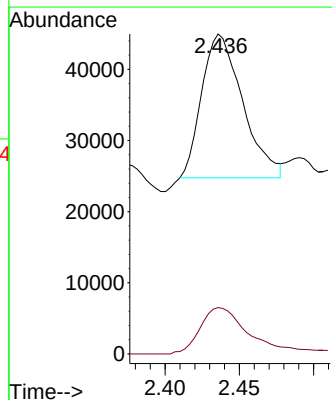
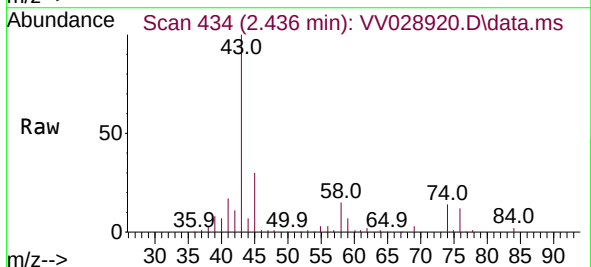
Instrument :
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ClientSampleId :
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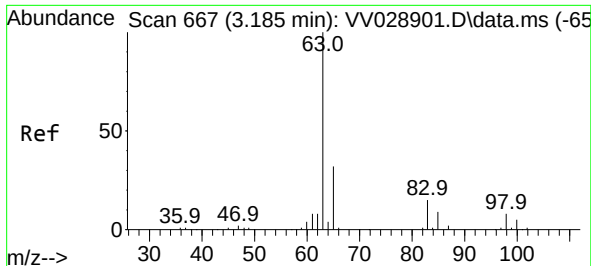
Tgt Ion: 76 Resp: 38174
Ion Ratio Lower Upper
76 100
78 9.5 7.4 11.2



#15
Methyl Acetate
Concen: 7.799 ug/L
RT: 2.436 min Scan# 434
Delta R.T. -0.000 min
Lab File: VV028920.D
Acq: 12 Nov 2022 09:57

Tgt Ion: 43 Resp: 38754
Ion Ratio Lower Upper
43 100
74 39.9 24.6 37.0#

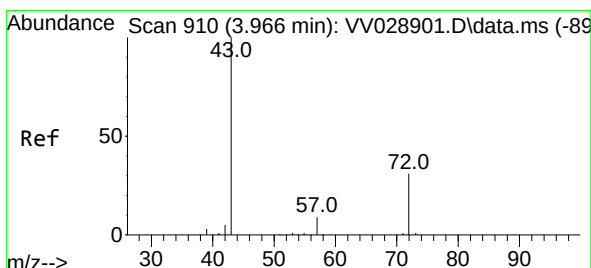
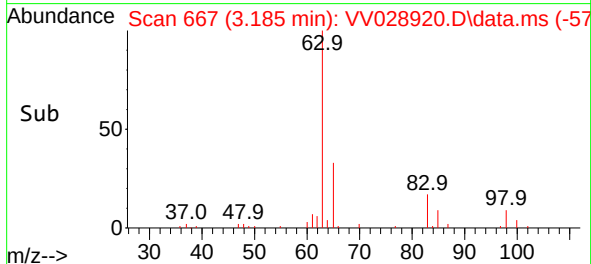
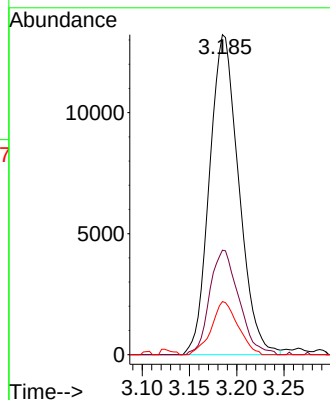
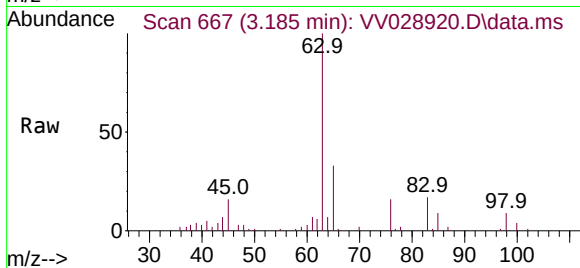




#19
1,1-Dichloroethane
Concen: 0.796 ug/L
RT: 3.185 min Scan# 667
Delta R.T. -0.000 min
Lab File: VV028920.D
Acq: 12 Nov 2022 09:57

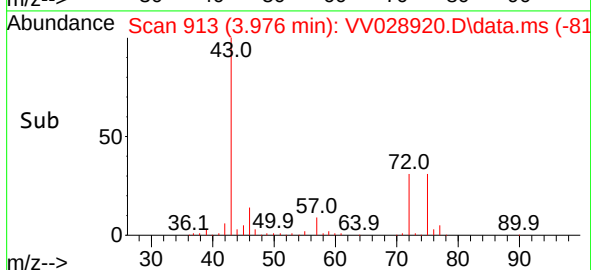
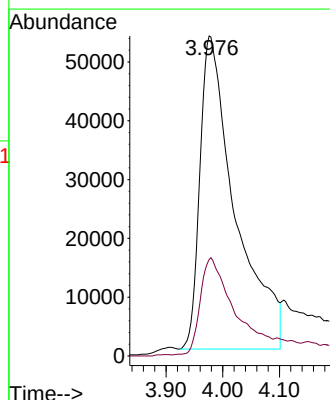
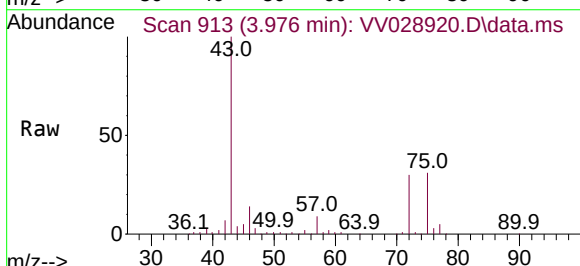
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COAH0

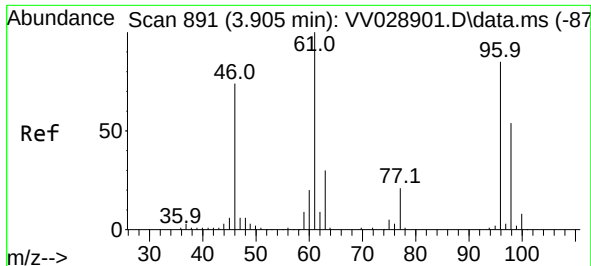
Tgt Ion:	63	Resp:	28480
Ion	Ratio	Lower	Upper
63	100		
65	32.7	23.0	42.6
83	16.6	9.4	17.6



#21
2-Butanone
Concen: 72.752 ug/L
RT: 3.976 min Scan# 913
Delta R.T. 0.010 min
Lab File: VV028920.D
Acq: 12 Nov 2022 09:57

Tgt Ion:	43	Resp:	230637
Ion	Ratio	Lower	Upper
43	100		
72	30.1	11.9	35.9

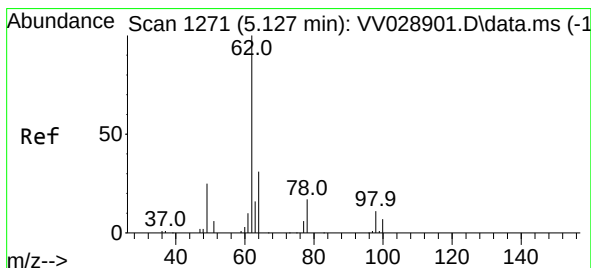
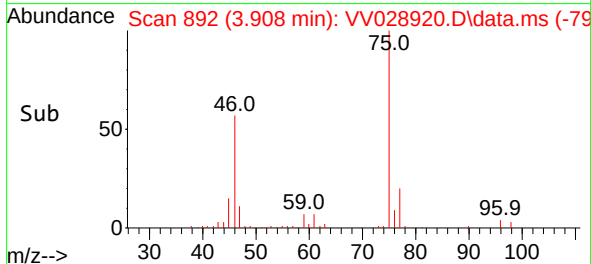
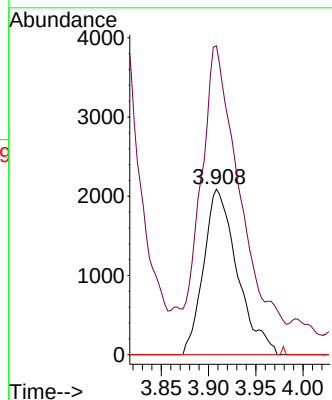
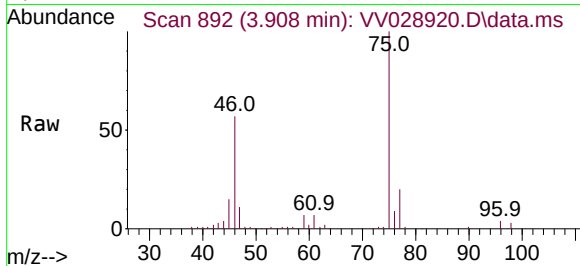




#22
 cis-1,2-Dichloroethene
 Concen: 0.232 ug/L
 RT: 3.908 min Scan# 891
 Delta R.T. 0.003 min
 Lab File: VV028920.D
 Acq: 12 Nov 2022 09:57

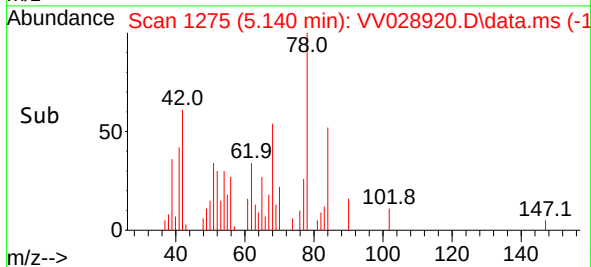
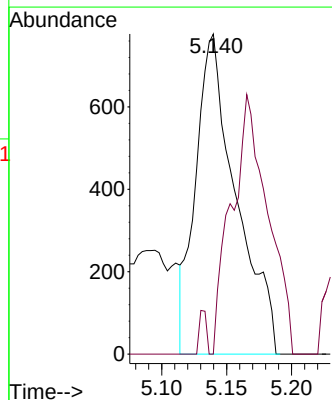
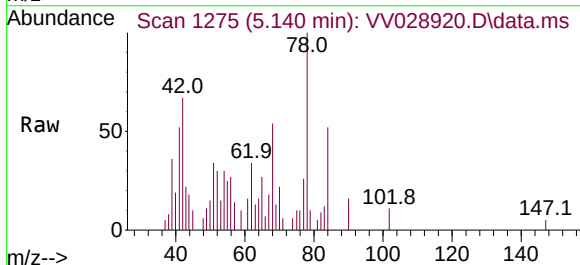
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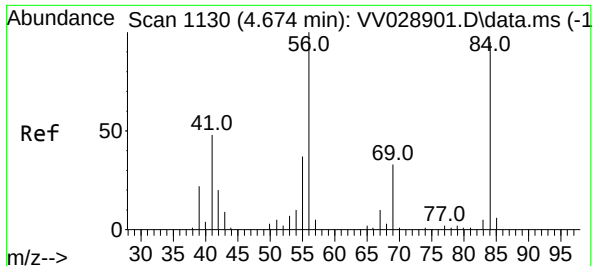
Tgt Ion: 96 Resp: 5173
 Ion Ratio Lower Upper
 96 100
 61 186.8 82.3 152.9#
 68 0.0 0.0 0.0



#27
 1,2-Dichloroethane
 Concen: 0.087 ug/L
 RT: 5.140 min Scan# 1275
 Delta R.T. 0.013 min
 Lab File: VV028920.D
 Acq: 12 Nov 2022 09:57

Tgt Ion: 62 Resp: 1674
 Ion Ratio Lower Upper
 62 100
 98 0.0 9.0 13.6#

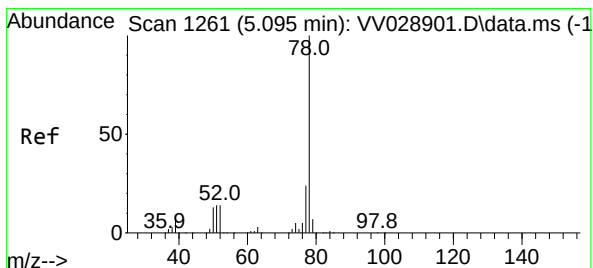
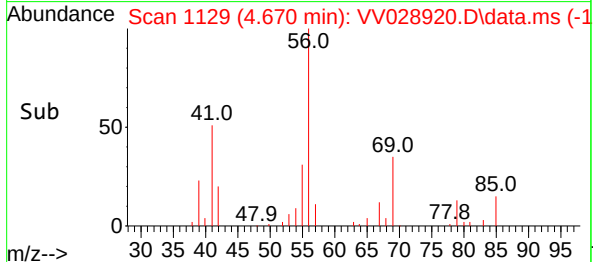
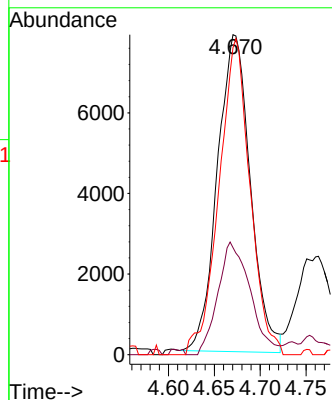
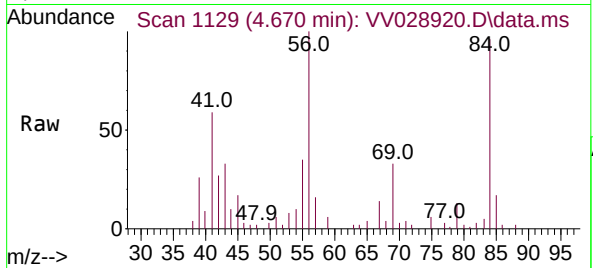




#30
Cyclohexane
Concen: 0.568 ug/L
RT: 4.670 min Scan# 1130
Delta R.T. -0.003 min
Lab File: VV028920.D
Acq: 12 Nov 2022 09:57

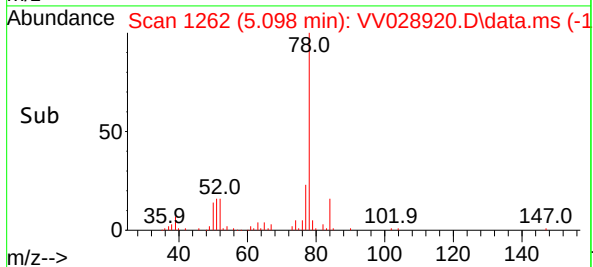
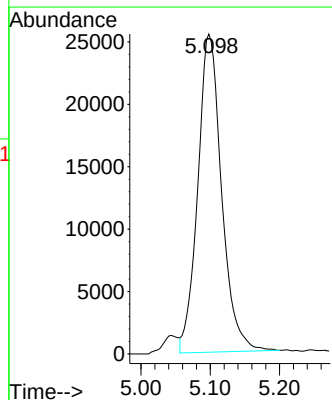
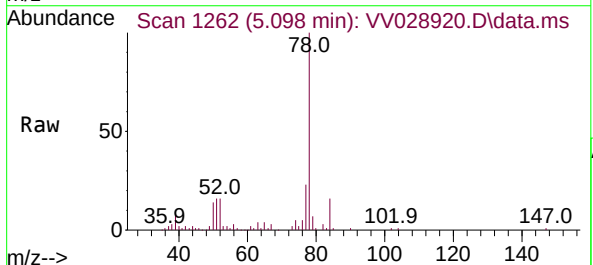
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ClientSampleId :
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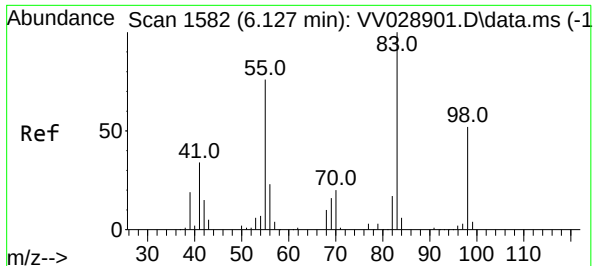
Tgt Ion: 56 Resp: 19635
Ion Ratio Lower Upper
56 100
69 34.9 26.1 39.1
84 93.8 77.9 116.9



#33
Benzene
Concen: 0.688 ug/L
RT: 5.098 min Scan# 1262
Delta R.T. 0.003 min
Lab File: VV028920.D
Acq: 12 Nov 2022 09:57

Tgt Ion: 78 Resp: 60880





#35

Methylcyclohexane

Concen: 1.730 ug/L

RT: 6.124 min Scan# 1

Delta R.T. -0.003 min

Lab File: VV028920.D

Acq: 12 Nov 2022 09:57

Instrument :

MSVOA_V

ClientSampleId :

COAH0

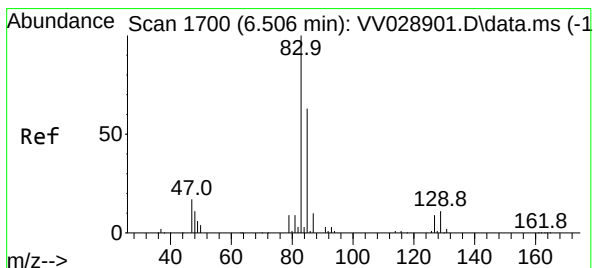
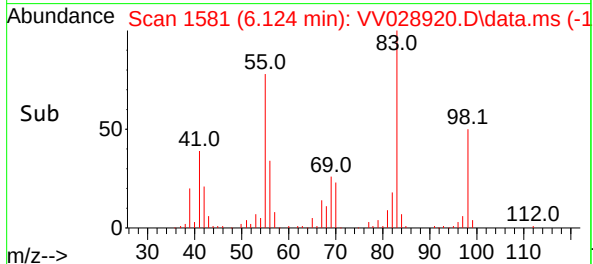
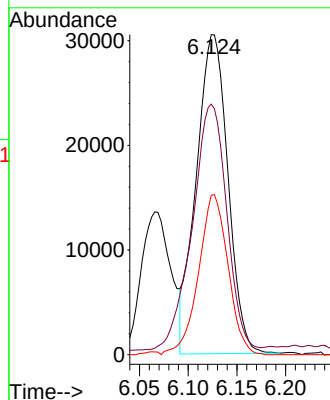
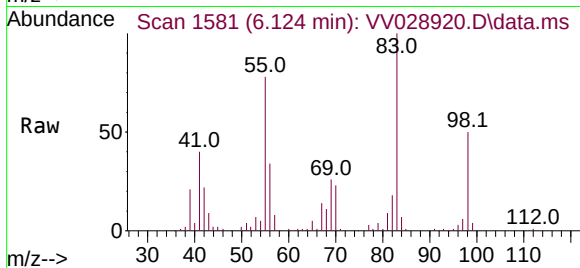
Tgt Ion: 83 Resp: 68876

Ion Ratio Lower Upper

83 100

55 83.7 55.8 83.6#

98 46.7 38.2 57.2



#38

Bromodichloromethane

Concen: 0.045 ug/L

RT: 6.452 min Scan# 1683

Delta R.T. -0.055 min

Lab File: VV028920.D

Acq: 12 Nov 2022 09:57

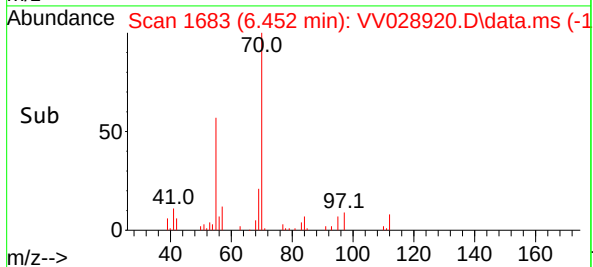
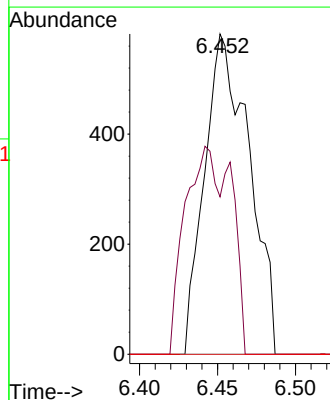
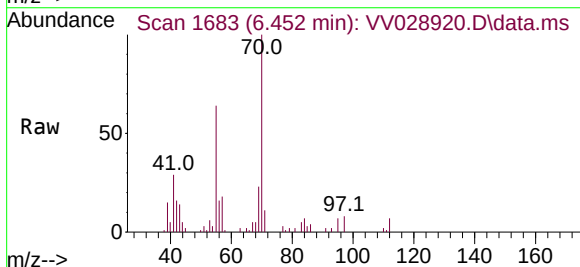
Tgt Ion: 83 Resp: 1159

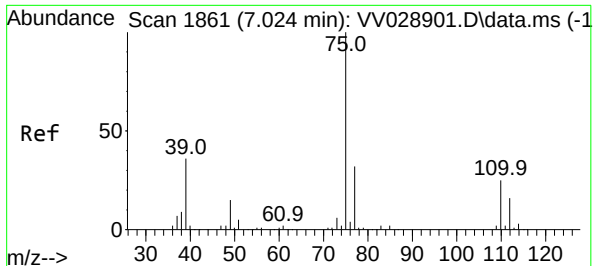
Ion Ratio Lower Upper

83 100

85 49.1 46.1 85.5

127 0.0 6.7 10.1#





#39

cis-1,3-Dichloropropene

Concen: 0.085 ug/L

RT: 6.982 min Scan# 1848

Delta R.T. -0.042 min

Lab File: VV028920.D

Acq: 12 Nov 2022 09:57

Instrument :

MSVOA_V

ClientSampleId :

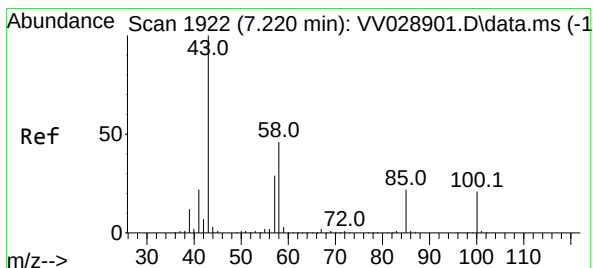
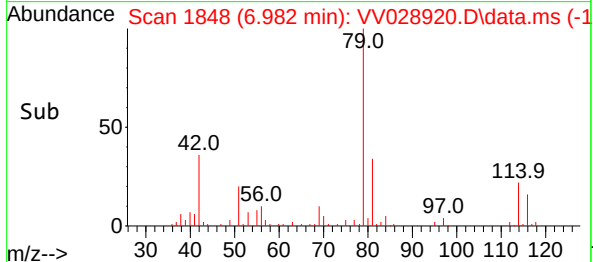
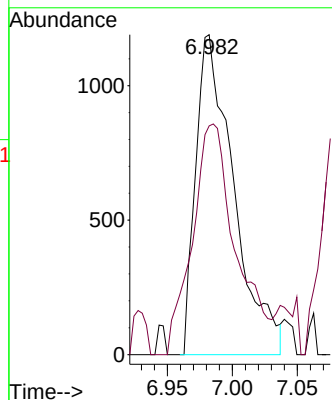
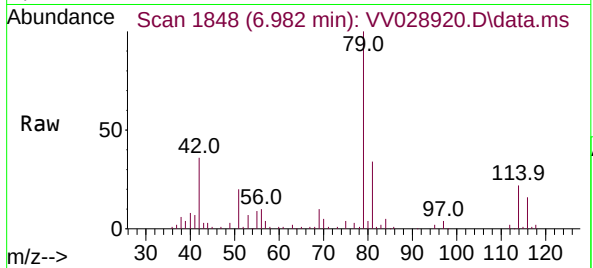
C0AH0

Tgt Ion: 75 Resp: 2419

Ion Ratio Lower Upper

75 100

77 71.5 21.8 40.6#



#40

4-Methyl-2-pentanone

Concen: 19.161 ug/L

RT: 7.223 min Scan# 1923

Delta R.T. 0.003 min

Lab File: VV028920.D

Acq: 12 Nov 2022 09:57

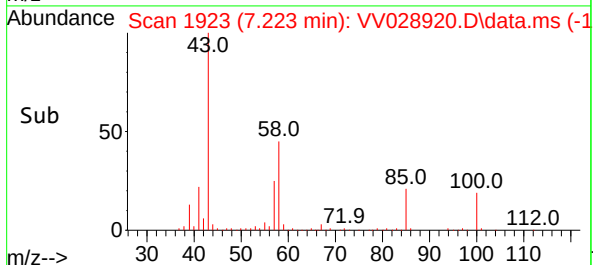
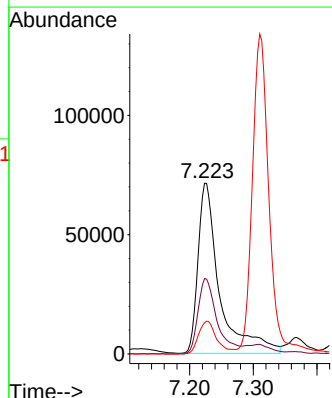
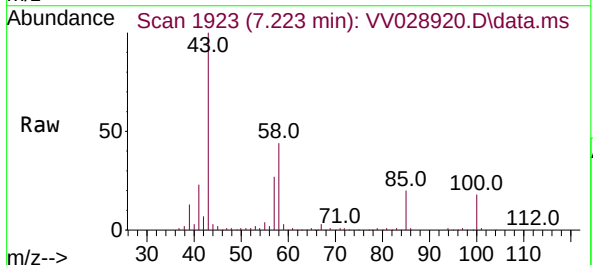
Tgt Ion: 43 Resp: 168242

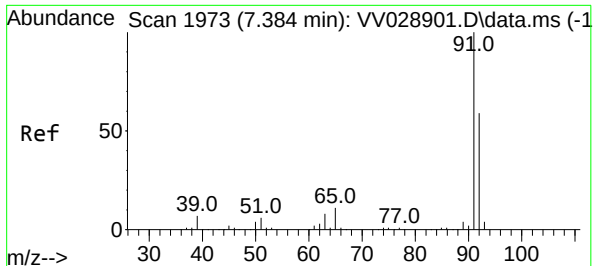
Ion Ratio Lower Upper

43 100

58 39.2 36.6 55.0

100 16.5 14.5 21.7





#42

Toluene

Concen: 0.619 ug/L

RT: 7.387 min Scan# 1973

Delta R.T. 0.003 min

Lab File: VV028920.D

Acq: 12 Nov 2022 09:57

Instrument :

MSVOA_V

ClientSampleId :

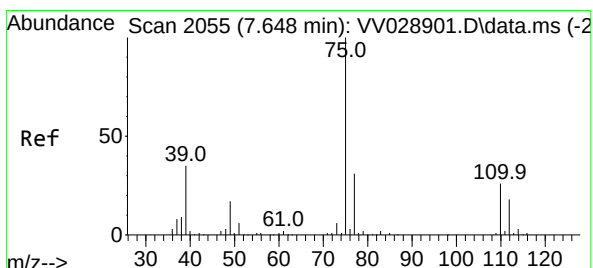
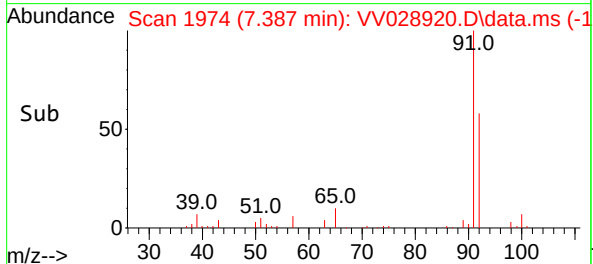
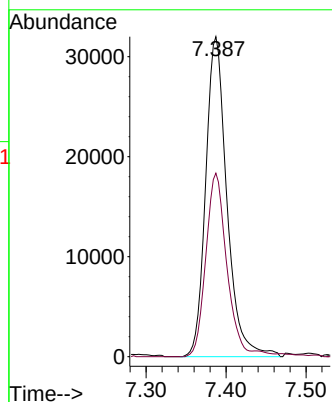
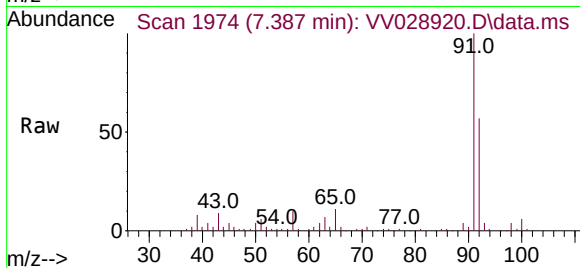
COAH0

Tgt Ion: 91 Resp: 59162

Ion Ratio Lower Upper

91 100

92 57.3 40.7 75.5



#44

trans-1,3-Dichloropropene

Concen: 0.083 ug/L

RT: 7.622 min Scan# 2047

Delta R.T. -0.026 min

Lab File: VV028920.D

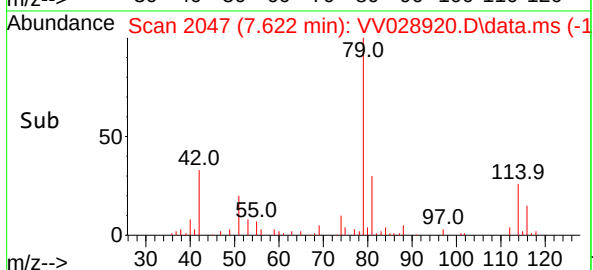
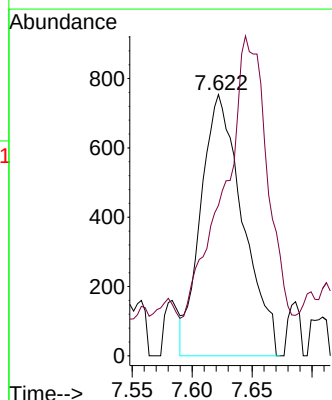
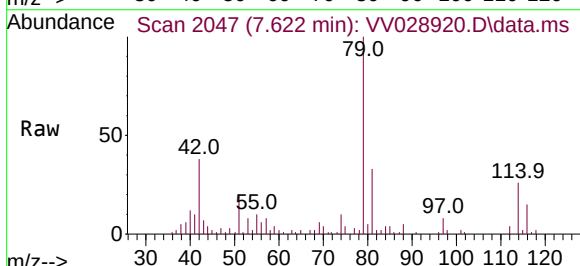
Acq: 12 Nov 2022 09:57

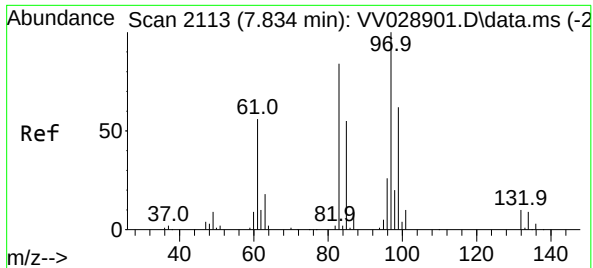
Tgt Ion: 75 Resp: 1833

Ion Ratio Lower Upper

75 100

77 57.6 22.2 41.2#

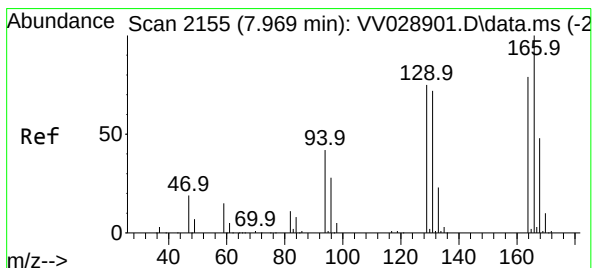
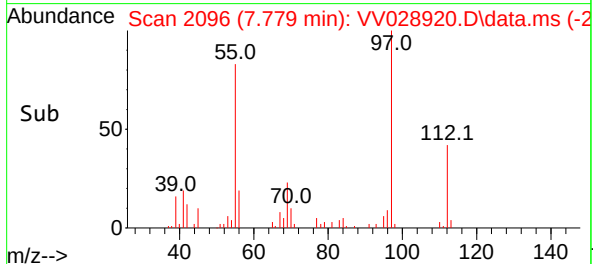
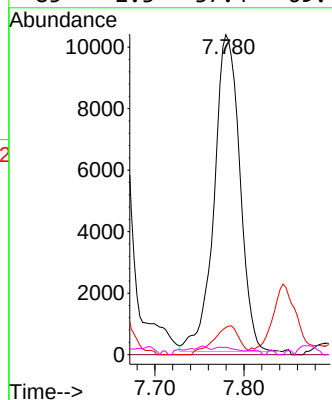
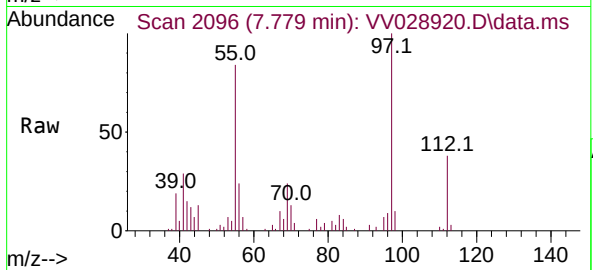




#45
1,1,2-Trichloroethane
Concen: 1.542 ug/L
RT: 7.779 min Scan# 2096
Delta R.T. -0.055 min
Lab File: VV028920.D
Acq: 12 Nov 2022 09:57

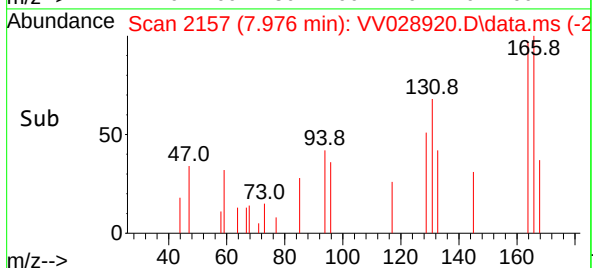
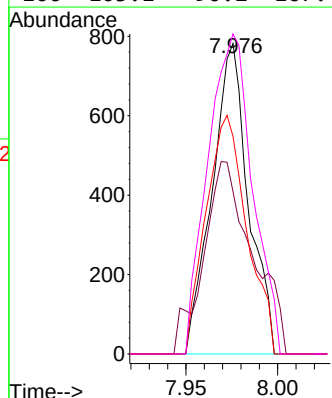
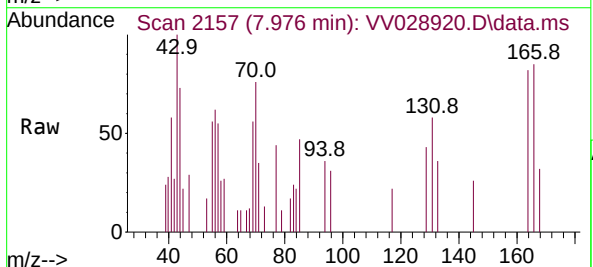
Instrument :
MSVOA_V
ClientSampleId :
COAH0

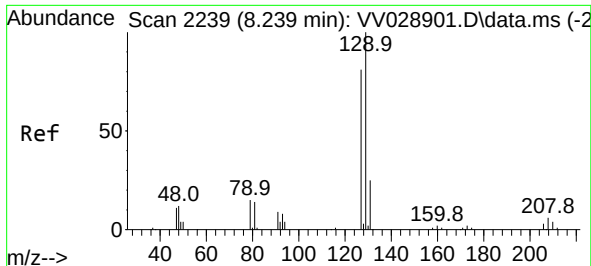
Tgt Ion:	97	Resp:	20602
Ion	Ratio	Lower	Upper
97	100		
99	0.0	41.5	77.1#
83	8.5	60.0	111.4#
85	2.3	37.4	69.4#



#47
Tetrachloroethene
Concen: 0.059 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. 0.006 min
Lab File: VV028920.D
Acq: 12 Nov 2022 09:57

Tgt Ion:	164	Resp:	1078
Ion	Ratio	Lower	Upper
164	100		
129	52.3	63.9	118.7#
131	70.1	61.8	114.8
166	103.1	90.2	167.4





#49

Dibromochloromethane

Concen: 0.053 ug/L

RT: 7.969 min Scan# 2155

Delta R.T. -0.270 min

Lab File: VV028920.D

Acq: 12 Nov 2022 09:57

Instrument :

MSVOA_V

ClientSampleId :

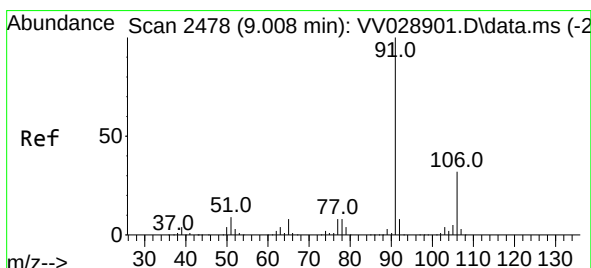
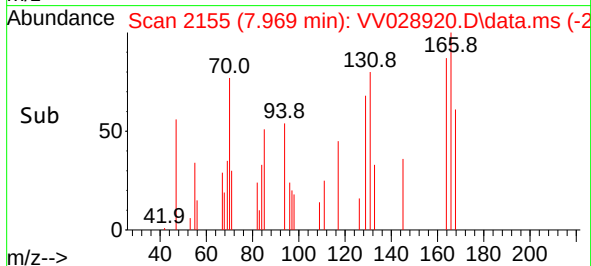
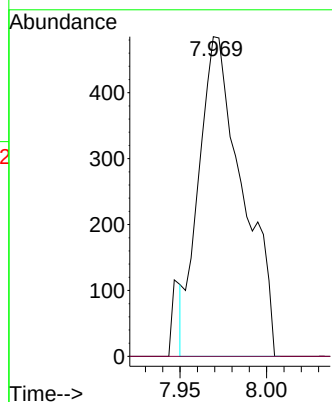
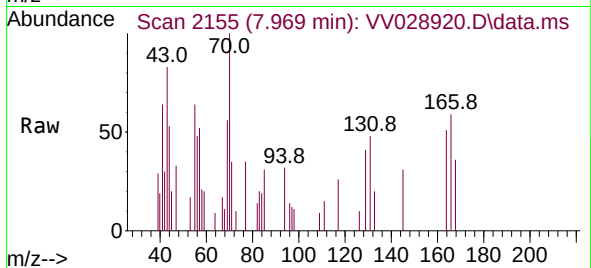
COAH0

Tgt Ion:129 Resp: 853

Ion Ratio Lower Upper

129 100

127 0.0 54.5 101.1#



#52

Ethylbenzene

Concen: 0.205 ug/L

RT: 9.011 min Scan# 2479

Delta R.T. 0.003 min

Lab File: VV028920.D

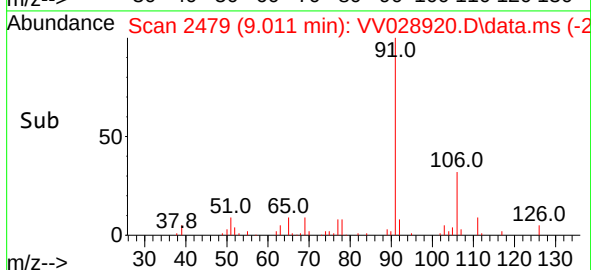
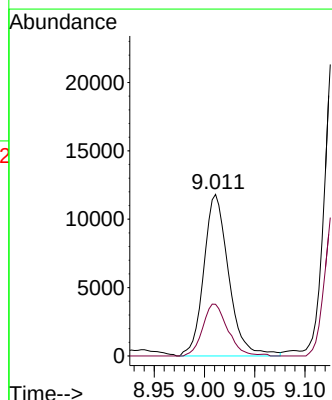
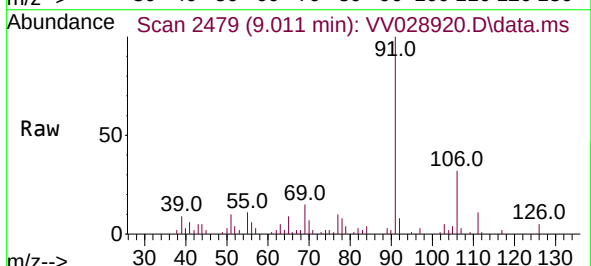
Acq: 12 Nov 2022 09:57

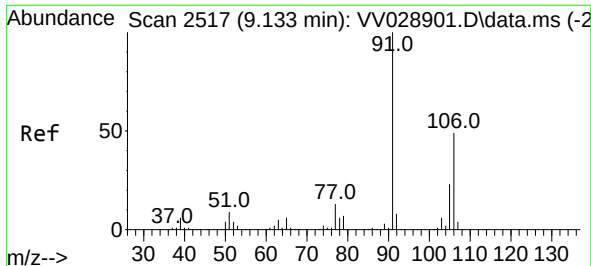
Tgt Ion: 91 Resp: 20355

Ion Ratio Lower Upper

91 100

106 32.0 21.6 40.2

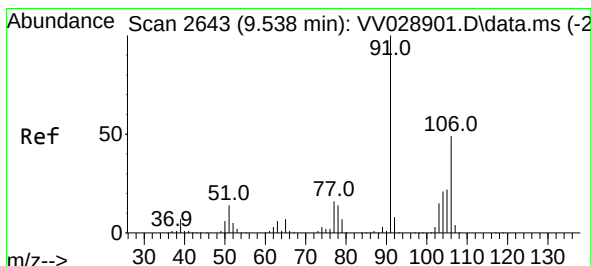
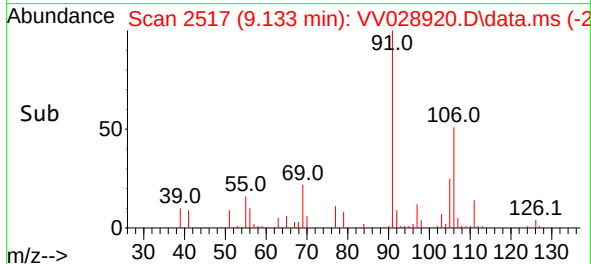
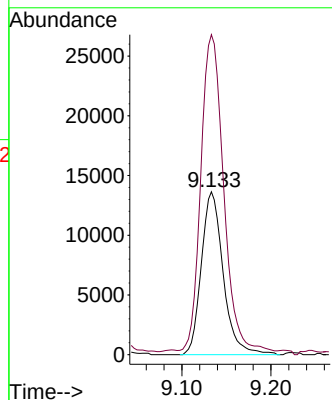
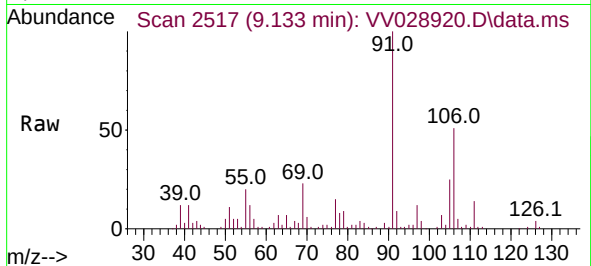




#53
m,p-Xylene
Concen: 0.587 ug/L
RT: 9.133 min Scan# 2517
Delta R.T. -0.000 min
Lab File: VV028920.D
Acq: 12 Nov 2022 09:57

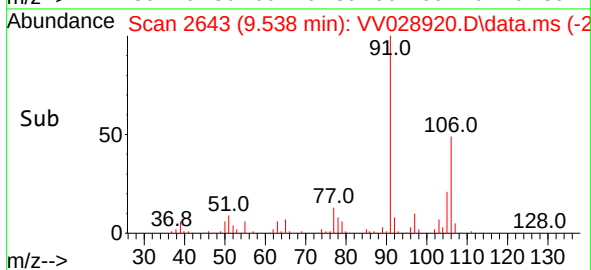
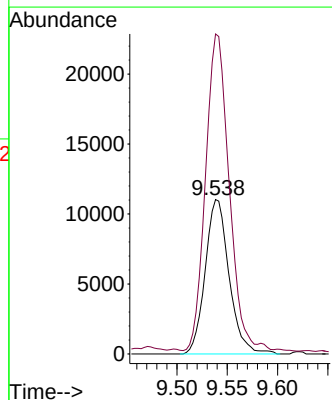
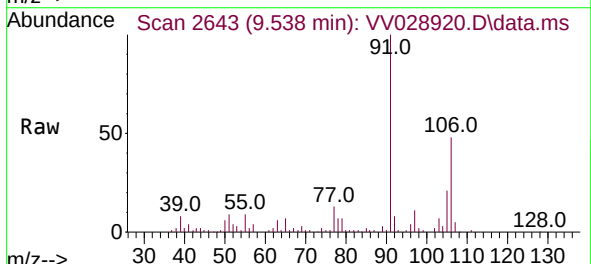
Instrument :
MSVOA_V
ClientSampleId :
COAH0

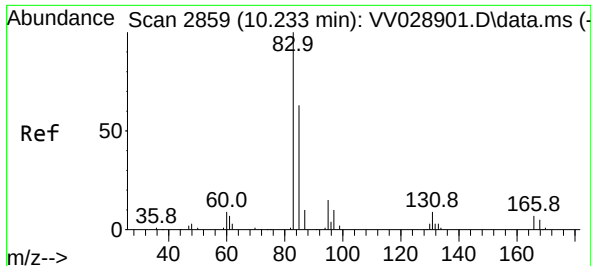
Tgt Ion:106 Resp: 23231
Ion Ratio Lower Upper
106 100
91 196.6 139.1 258.3



#54
o-Xylene
Concen: 0.484 ug/L
RT: 9.538 min Scan# 2643
Delta R.T. -0.000 min
Lab File: VV028920.D
Acq: 12 Nov 2022 09:57

Tgt Ion:106 Resp: 18228
Ion Ratio Lower Upper
106 100
91 207.2 145.7 270.7





#57

1,1,2,2-Tetrachloroethane

Concen: 0.396 ug/L

RT: 10.233 min Scan# 2189

Delta R.T. -0.000 min

Lab File: VV028920.D

Acq: 12 Nov 2022 09:57

Instrument :

MSVOA_V

ClientSampleId :

COAH0

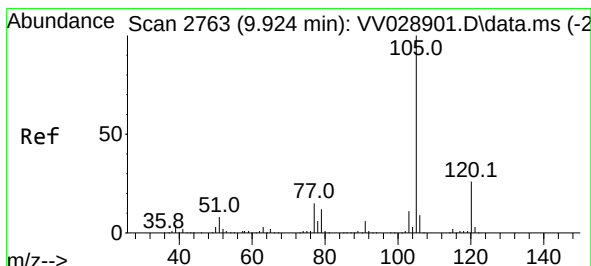
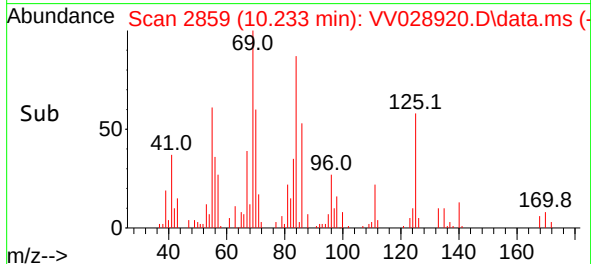
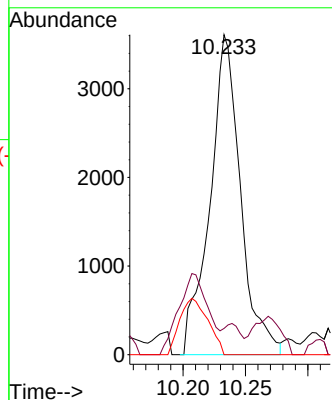
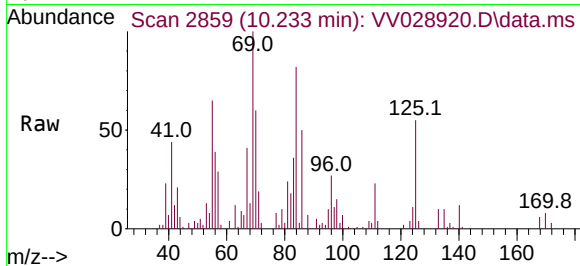
Tgt Ion: 83 Resp: 6173

Ion Ratio Lower Upper

83 100

85 8.2 45.2 84.0#

131 0.0 7.5 11.3#



#60

Isopropylbenzene

Concen: 0.301 ug/L

RT: 10.442 min Scan# 2924

Delta R.T. 0.518 min

Lab File: VV028920.D

Acq: 12 Nov 2022 09:57

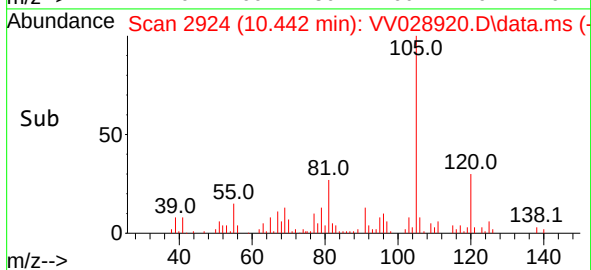
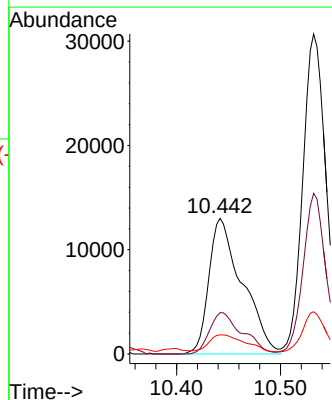
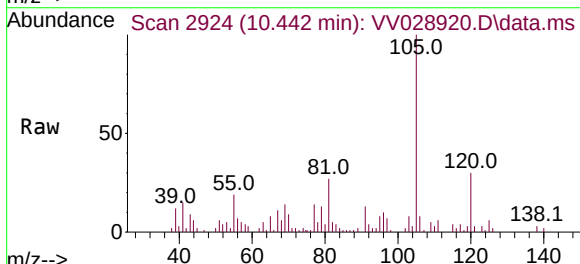
Tgt Ion: 105 Resp: 29058

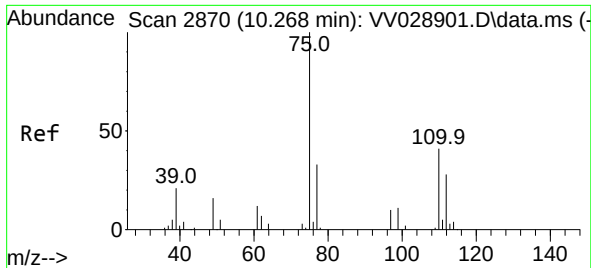
Ion Ratio Lower Upper

105 100

120 29.9 21.3 31.9

77 14.3 11.8 17.8

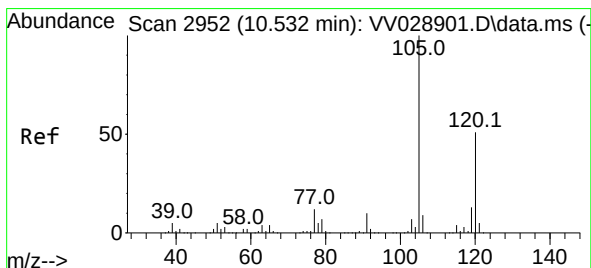
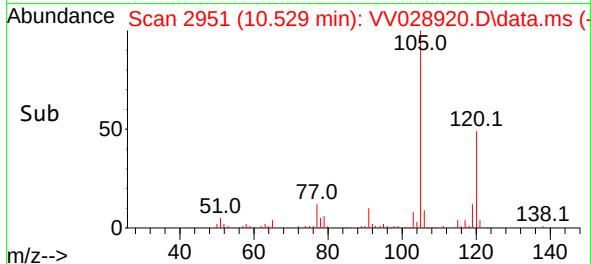
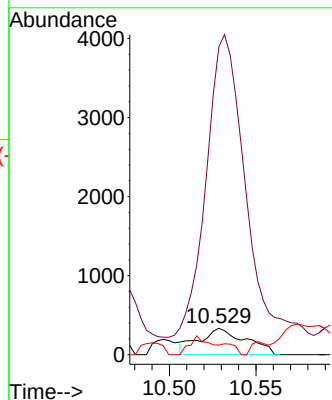
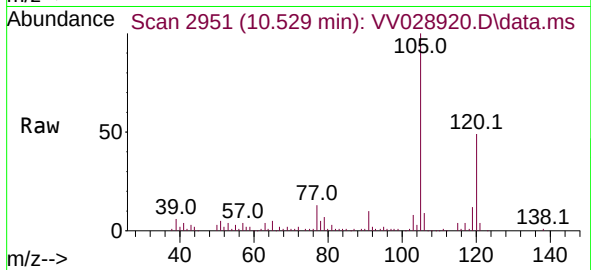




#61
1,2,3-Trichloropropane
Concen: 0.062 ug/L
RT: 10.529 min Scan# 2951
Delta R.T. 0.260 min
Lab File: VV028920.D
Acq: 12 Nov 2022 09:57

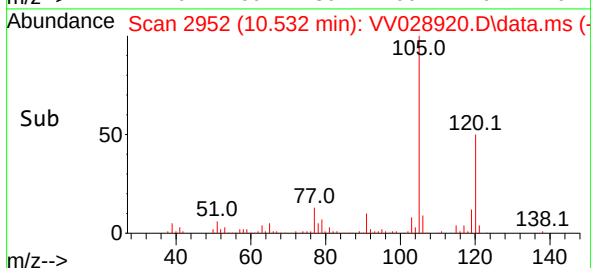
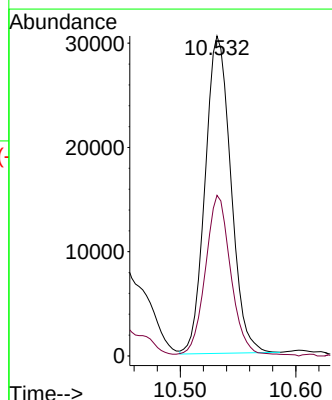
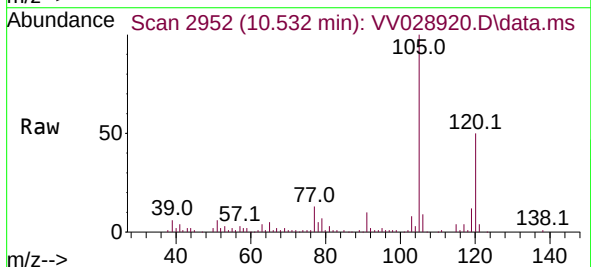
Instrument :
MSVOA_V
ClientSampleId :
COAH0

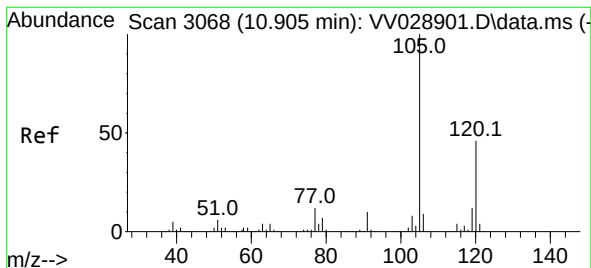
Tgt Ion: 75 Resp: 628
Ion Ratio Lower Upper
75 100
77 1001.4 26.2 39.2#
110 31.7 32.6 48.8#



#62
1,3,5-Trimethylbenzene
Concen: 0.575 ug/L
RT: 10.532 min Scan# 2952
Delta R.T. -0.000 min
Lab File: VV028920.D
Acq: 12 Nov 2022 09:57

Tgt Ion: 105 Resp: 47082
Ion Ratio Lower Upper
105 100
120 50.6 39.9 59.9





#63

1,2,4-Trimethylbenzene

Concen: 0.601 ug/L

RT: 10.908 min Scan# 3069

Delta R.T. 0.003 min

Lab File: VV028920.D

Acq: 12 Nov 2022 09:57

Instrument :

MSVOA_V

ClientSampleId :

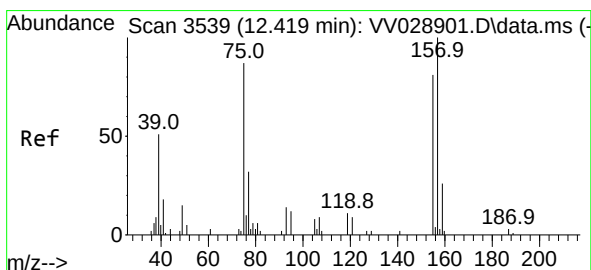
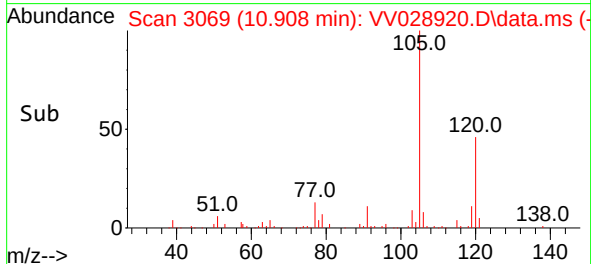
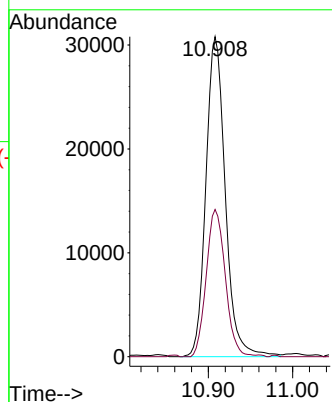
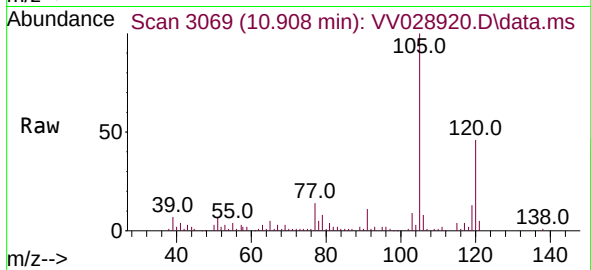
COAH0

Tgt Ion:105 Resp: 49286

Ion Ratio Lower Upper

105 100

120 45.3 37.8 56.8



#68

1,2-Dibromo-3-chloropropane

Concen: 0.159 ug/L

RT: 12.406 min Scan# 3535

Delta R.T. -0.013 min

Lab File: VV028920.D

Acq: 12 Nov 2022 09:57

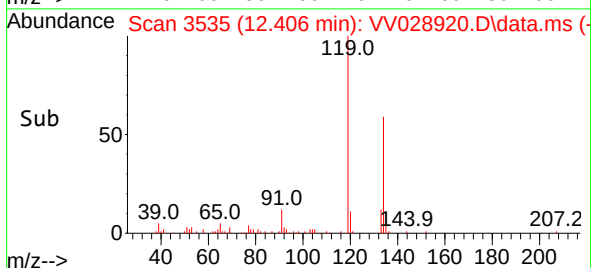
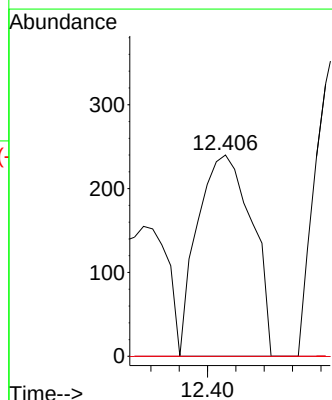
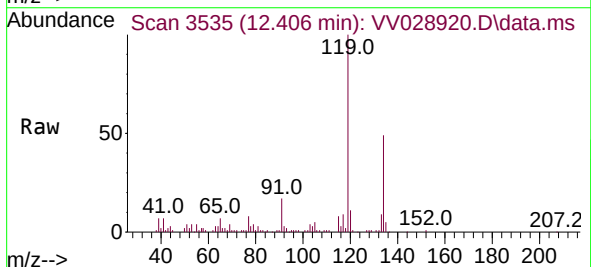
Tgt Ion: 75 Resp: 319

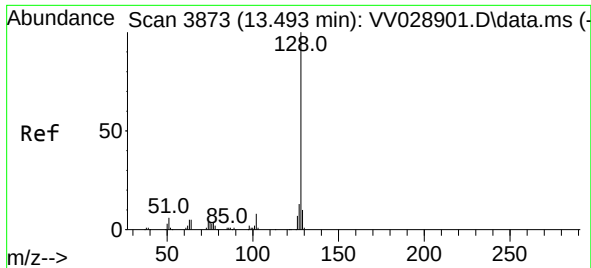
Ion Ratio Lower Upper

75 100

155 0.0 64.8 97.2#

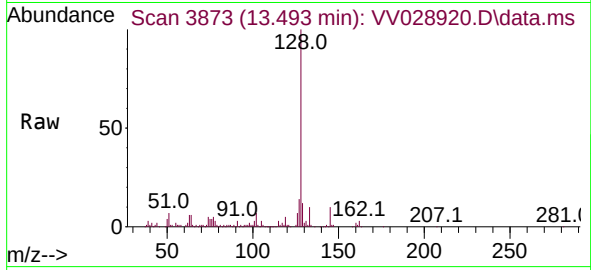
157 0.0 86.3 129.5#





#71
Naphthalene
Concen: 2.865 ug/L
RT: 13.493 min Scan# 3873
Delta R.T. -0.000 min
Lab File: VV028920.D
Acq: 12 Nov 2022 09:57

Instrument :
MSVOA_V
ClientSampleId :
C0AH0



Tgt Ion:	128	Resp:	97975
Ion	Ratio	Lower	Upper
128	100		
129	14.5	8.8	13.2#
127	13.9	9.8	14.8

