

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111422\
 Data File : VW028961.D
 Acq On : 15 Nov 2022 00:57
 Operator : SY/MD
 Sample : N5604-10
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 H46G3

Quant Time: Nov 15 05:36:42 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR111122WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Nov 15 01:23:16 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.603	114	254453	5.000	ug/L	-0.01
28) Chlorobenzene-d5	8.841	117	240929	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.239	152	118880	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.298	65	52741	3.400	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	68.000%
7) Chloroethane-d5	1.558	69	60387	4.428	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.600%
11) 1,1-Dichloroethene-d2	2.095	63	82002	2.901	ug/L	-0.02
Spiked Amount	5.000	Range	60 - 125	Recovery	=	58.000%#
20) 2-Butanone-d5	3.953	46	125721	48.415	ug/L	0.06
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.820%
24) Chloroform-d	4.336	84	144319	4.531	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.600%
26) 1,2-Dichloroethane-d4	5.024	65	69652	4.861	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.200%
32) Benzene-d6	5.031	84	291848	4.058	ug/L	-0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.200%
36) 1,2-Dichloropropane-d6	6.056	67	67242	3.349	ug/L	-0.01
Spiked Amount	5.000	Range	60 - 140	Recovery	=	67.000%
41) Toluene-d8	7.297	98	273517	4.225	ug/L	-0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.600%
43) trans-1,3-Dichloroprop...	7.609	79	23732	3.623	ug/L	-0.01
Spiked Amount	5.000	Range	55 - 130	Recovery	=	72.400%
46) 2-Hexanone-d5	8.104	63	129716	46.400	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.800%
56) 1,1,2,2-Tetrachloroeth...	10.210	84	66676	4.789	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.800%
66) 1,2-Dichlorobenzene-d4	11.616	152	105249	4.949	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.330	85	1626	0.077	ug/L	98
5) Vinyl chloride	1.301	62	13619	0.678	ug/L #	46
8) Chloroethane	1.577	64	2403	0.204	ug/L #	79
10) 1,1,2-Trichloro-1,2,2-...	2.095	101	1379	0.090	ug/L #	47
14) Carbon disulfide	2.281	76	14165	0.259	ug/L #	91
18) trans-1,2-Dichloroethene	2.744	96	5696	0.319	ug/L	81
19) 1,1-Dichloroethane	3.172	63	8335	0.285	ug/L	96
21) 2-Butanone	4.043	43	2373	0.918	ug/L	76
22) cis-1,2-Dichloroethene	3.899	96	5512	0.303	ug/L	79
25) Chloroform	4.378	83	2171	0.071	ug/L #	37
27) 1,2-Dichloroethane	5.024	62	2096	0.133	ug/L	97
30) Cyclohexane	4.651	56	5173	0.180	ug/L	96
33) Benzene	5.082	78	40671	0.552	ug/L	100
35) Methylcyclohexane	6.056	83	23489	0.709	ug/L #	21
37) 1,2-Dichloropropane	6.056	63	8229	0.485	ug/L #	86
38) Bromodichloromethane	6.535	83	2362	0.110	ug/L #	24
39) cis-1,3-Dichloropropene	6.969	75	1897	0.080	ug/L #	22
42) Toluene	7.371	91	62620	0.787	ug/L	100
45) 1,1,2-Trichloroethane	7.767	97	4498	0.405	ug/L #	22

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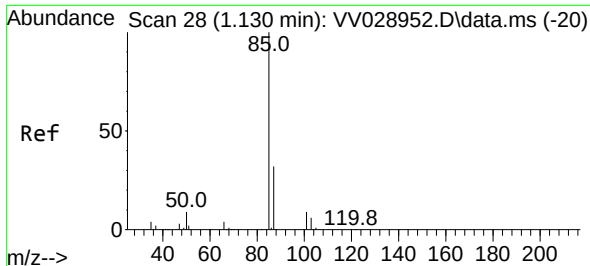
Instrument :
 MSVOA_V
 ClientSampleId :
 H46G3

Quant Time: Nov 15 05:36:42 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR111122WMA.M
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

51) Chlorobenzene	8.873	112	3555	0.072	ug/L #	84
52) Ethylbenzene	9.001	91	53300	0.644	ug/L	98
53) m,p-Xylene	9.130	106	38358	1.165	ug/L	97
54) o-Xylene	9.535	106	17094	0.546	ug/L	99
60) Isopropylbenzene	9.924	105	9806	0.127	ug/L	97
61) 1,2,3-Trichloropropane	11.239	75	12420	1.529	ug/L #	66
62) 1,3,5-Trimethylbenzene	10.532	105	4052	0.062	ug/L	99
63) 1,2,4-Trimethylbenzene	10.908	105	8068	0.123	ug/L	94
71) Naphthalene	13.500	128	3408	0.125	ug/L #	94

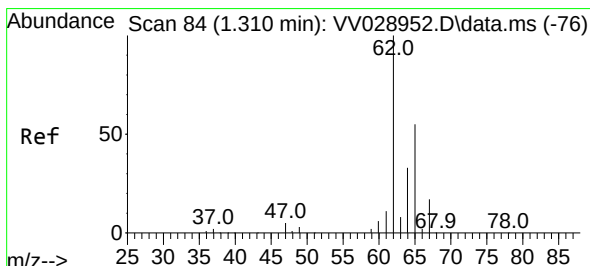
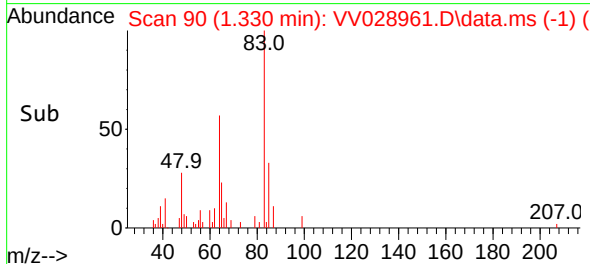
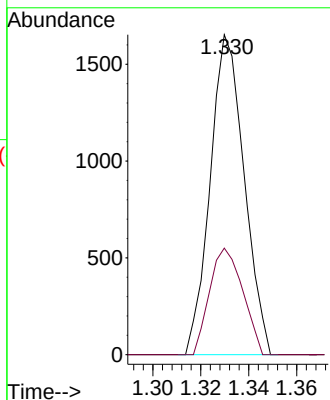
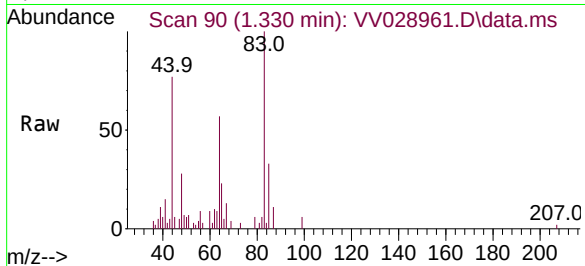
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2
Dichlorodifluoromethane
Concen: 0.077 ug/L
RT: 1.330 min Scan# 90
Delta R.T. 0.200 min
Lab File: VV028961.D
Acq: 15 Nov 2022 00:57

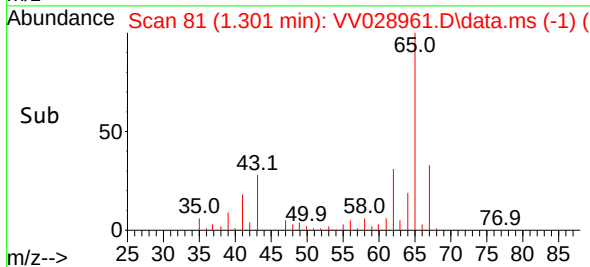
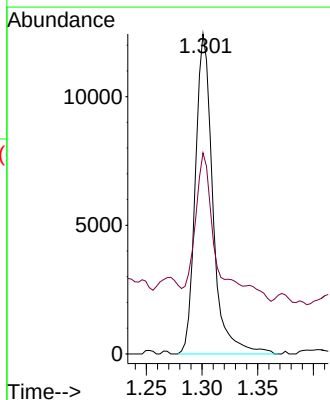
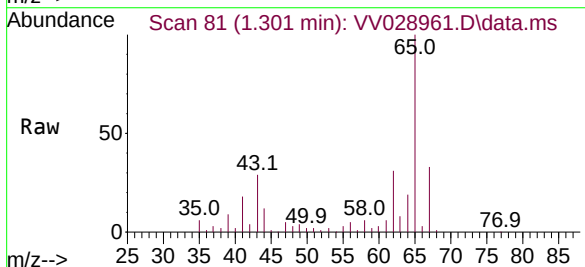
Instrument :
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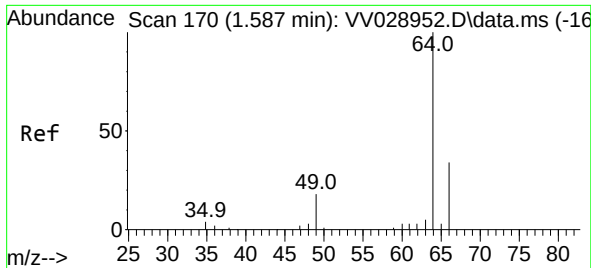
Tgt Ion: 85 Resp: 1626
Ion Ratio Lower Upper
85 100
87 32.5 25.0 37.4



#5
Vinyl chloride
Concen: 0.678 ug/L
RT: 1.301 min Scan# 81
Delta R.T. -0.010 min
Lab File: VV028961.D
Acq: 15 Nov 2022 00:57

Tgt Ion: 62 Resp: 13619
Ion Ratio Lower Upper
62 100
64 62.8 22.8 42.4#

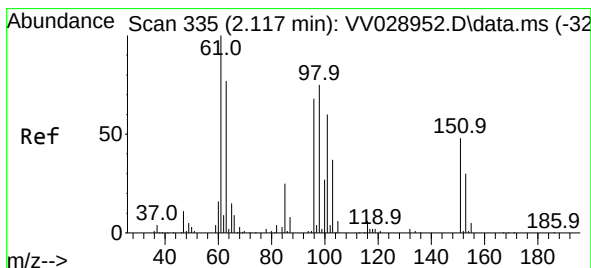
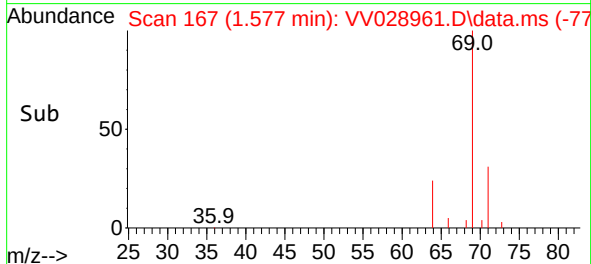
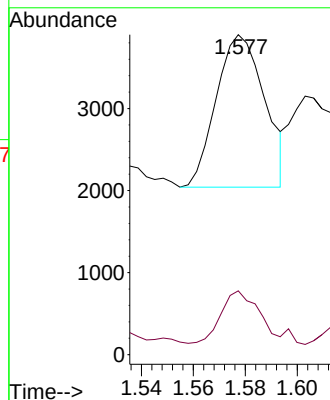
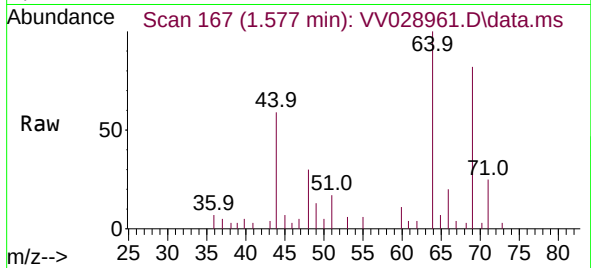




#8
Chloroethane
Concen: 0.204 ug/L
RT: 1.577 min Scan# 1
Delta R.T. -0.010 min
Lab File: VV028961.D
Acq: 15 Nov 2022 00:57

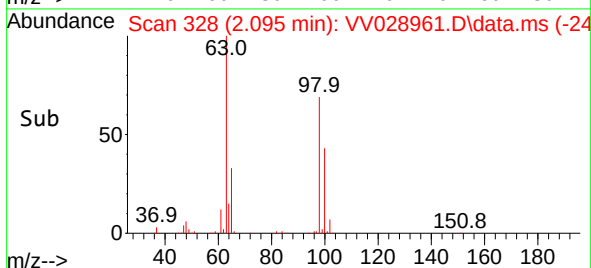
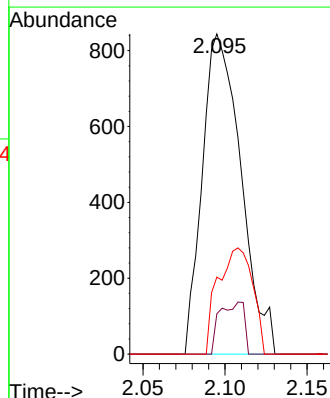
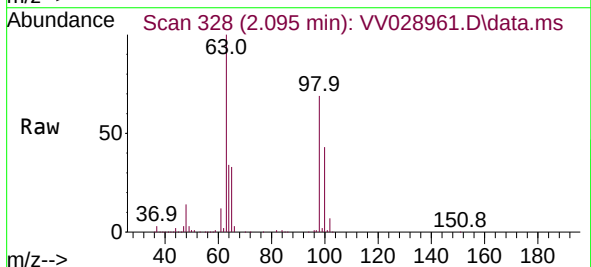
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ClientSampleId :
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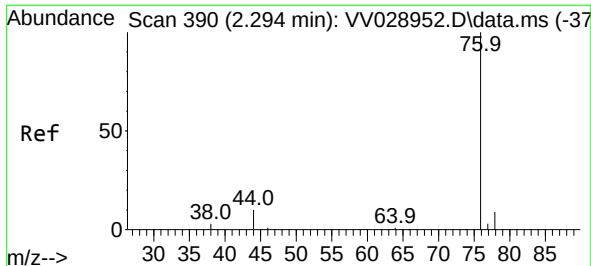
Tgt Ion: 64 Resp: 2403
Ion Ratio Lower Upper
64 100
66 19.9 22.0 40.8#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.090 ug/L
RT: 2.095 min Scan# 328
Delta R.T. -0.022 min
Lab File: VV028961.D
Acq: 15 Nov 2022 00:57

Tgt Ion: 101 Resp: 1379
Ion Ratio Lower Upper
101 100
85 10.3 32.9 49.3#
151 29.7 62.5 93.7#

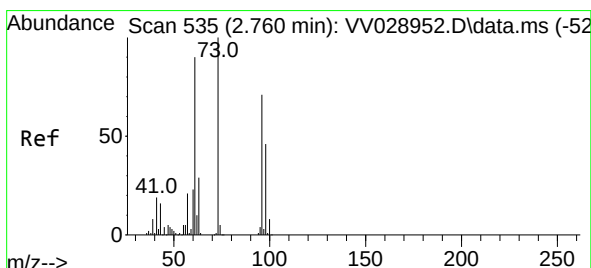
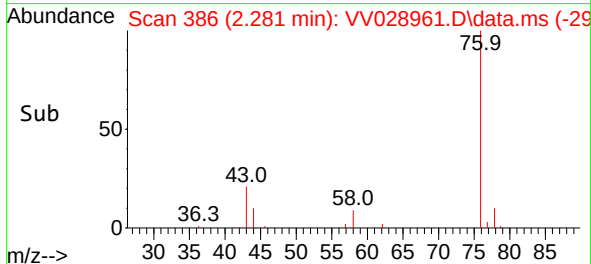
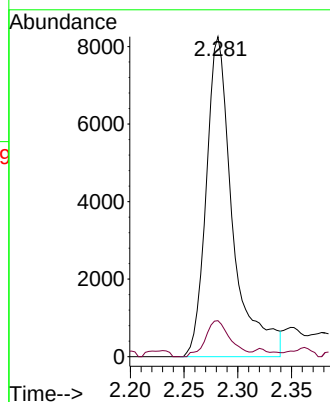
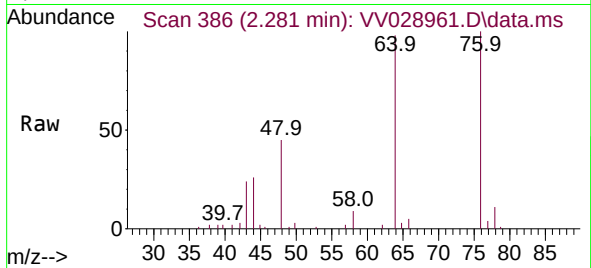




#14
Carbon disulfide
Concen: 0.259 ug/L
RT: 2.281 min Scan# 31
Delta R.T. -0.013 min
Lab File: VV028961.D
Acq: 15 Nov 2022 00:57

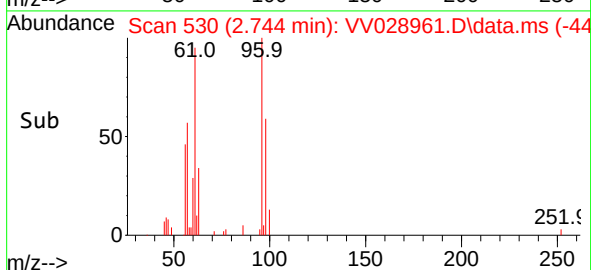
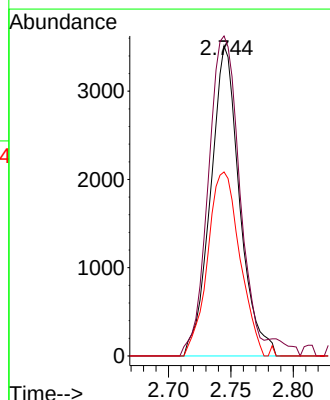
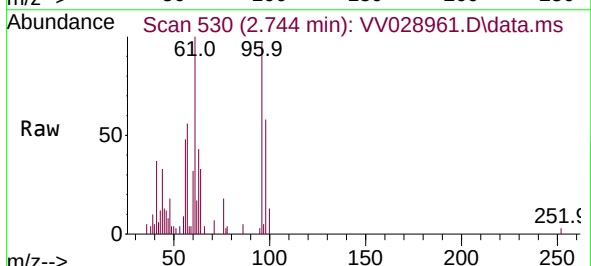
Instrument :
MSVOA_V
ClientSampleId :
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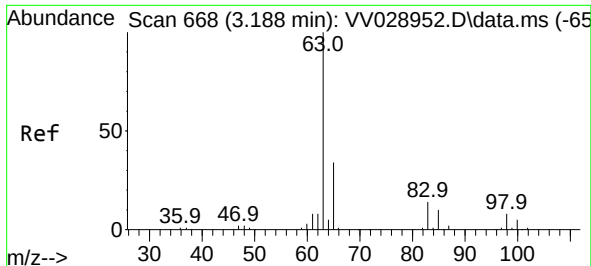
Tgt Ion: 76 Resp: 14165
Ion Ratio Lower Upper
76 100
78 12.5 7.4 11.2#



#18
trans-1,2-Dichloroethene
Concen: 0.319 ug/L
RT: 2.744 min Scan# 530
Delta R.T. -0.016 min
Lab File: VV028961.D
Acq: 15 Nov 2022 00:57

Tgt Ion: 96 Resp: 5696
Ion Ratio Lower Upper
96 100
61 103.3 91.8 170.6
98 59.4 46.4 86.2





#19

1,1-Dichloroethane

Concen: 0.285 ug/L

RT: 3.172 min Scan# 6

Delta R.T. -0.016 min

Lab File: VV028961.D

Acq: 15 Nov 2022 00:57

Instrument :

MSVOA_V

ClientSampleId :

H46G3

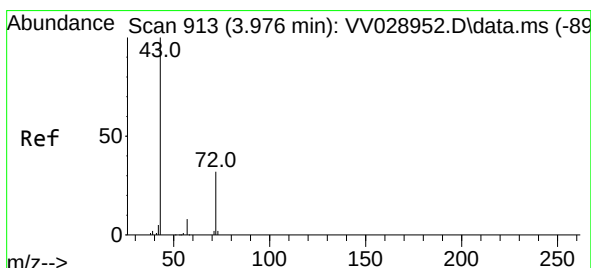
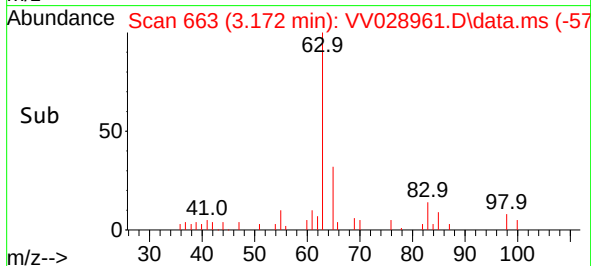
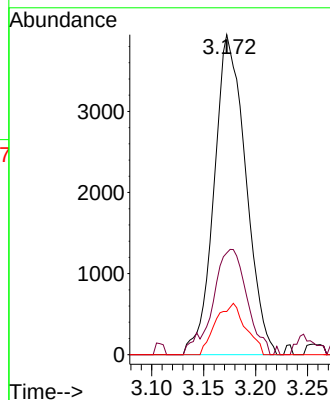
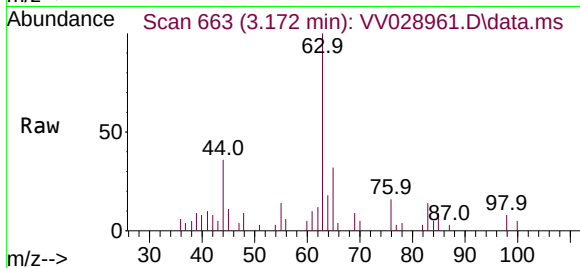
Tgt Ion: 63 Resp: 8335

Ion Ratio Lower Upper

63 100

65 36.2 23.0 42.6

83 13.5 9.4 17.6



#21

2-Butanone

Concen: 0.918 ug/L

RT: 4.043 min Scan# 934

Delta R.T. 0.068 min

Lab File: VV028961.D

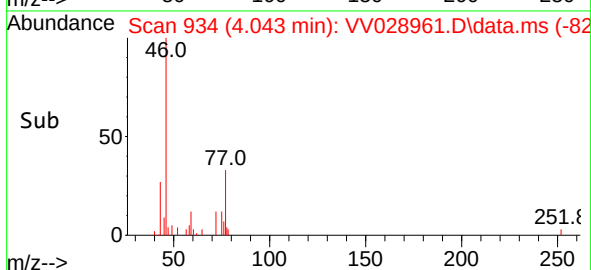
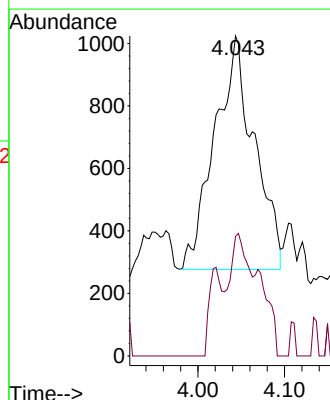
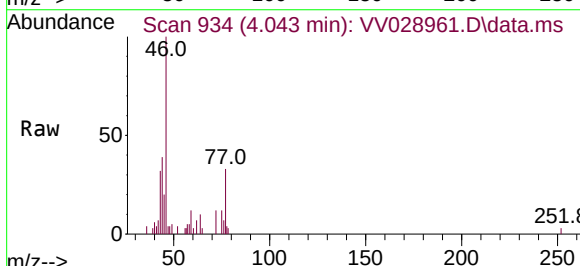
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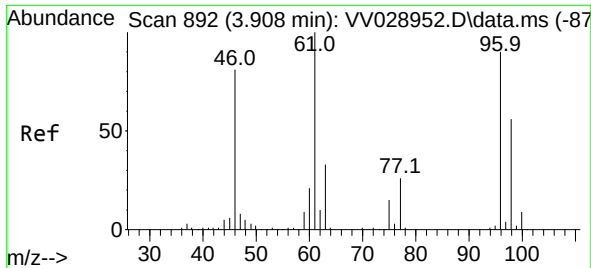
Tgt Ion: 43 Resp: 2373

Ion Ratio Lower Upper

43 100

72 12.0 11.9 35.9

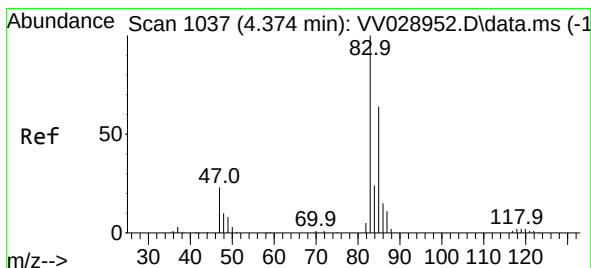
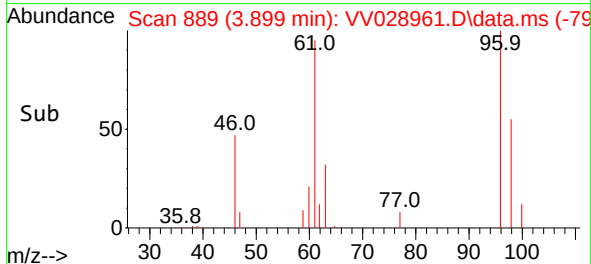
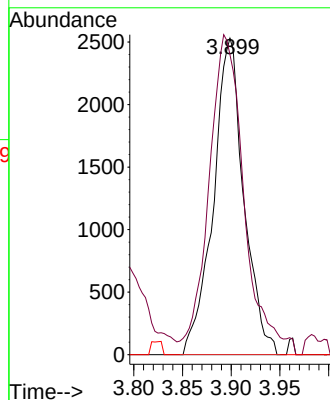
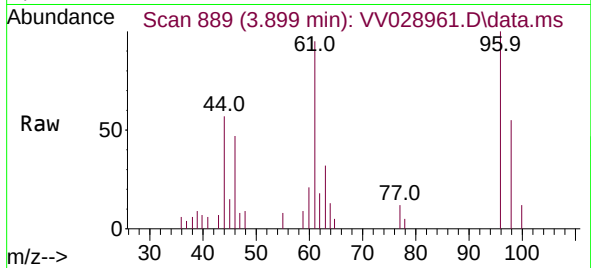




#22
 cis-1,2-Dichloroethene
 Concen: 0.303 ug/L
 RT: 3.899 min Scan# 89
 Delta R.T. -0.010 min
 Lab File: VV028961.D
 Acq: 15 Nov 2022 00:57

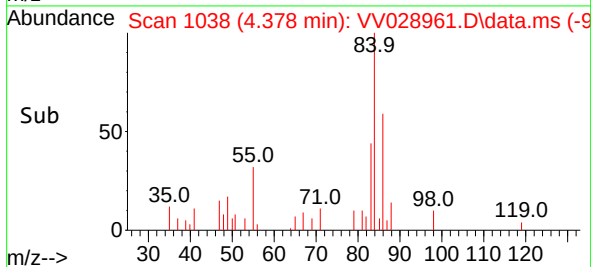
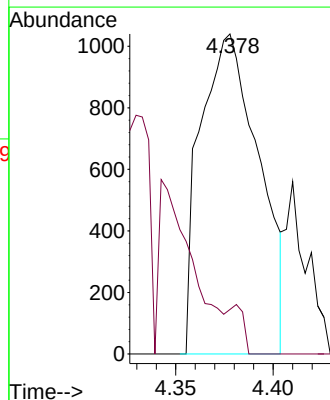
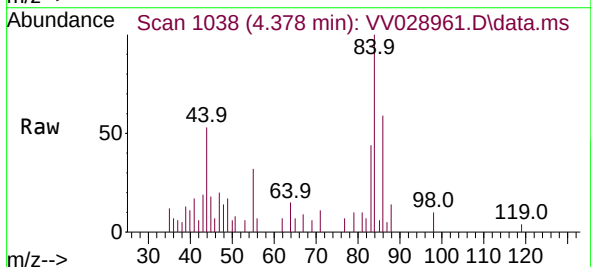
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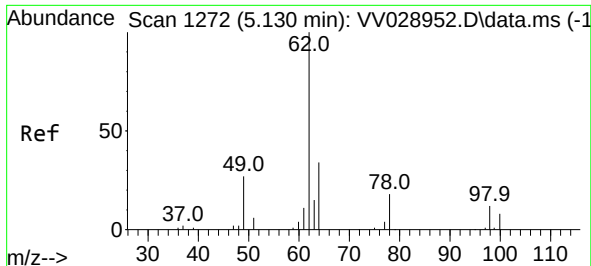
Tgt Ion: 96 Resp: 5512
 Ion Ratio Lower Upper
 96 100
 61 94.9 82.3 152.9
 68 0.0 0.0 0.0



#25
 Chloroform
 Concen: 0.071 ug/L
 RT: 4.378 min Scan# 1038
 Delta R.T. 0.003 min
 Lab File: VV028961.D
 Acq: 15 Nov 2022 00:57

Tgt Ion: 83 Resp: 2171
 Ion Ratio Lower Upper
 83 100
 85 13.9 43.7 81.1#





#27

1,2-Dichloroethane

Concen: 0.133 ug/L

RT: 5.024 min Scan# 1123

Delta R.T. -0.106 min

Lab File: VV028961.D

Acq: 15 Nov 2022 00:57

Instrument :

MSVOA_V

ClientSampleId :

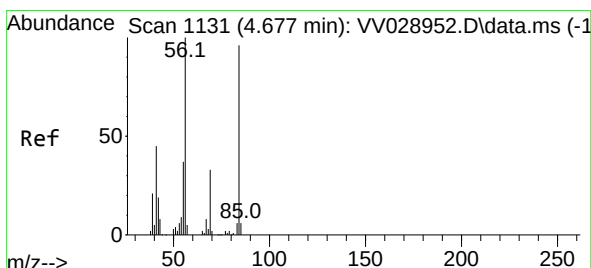
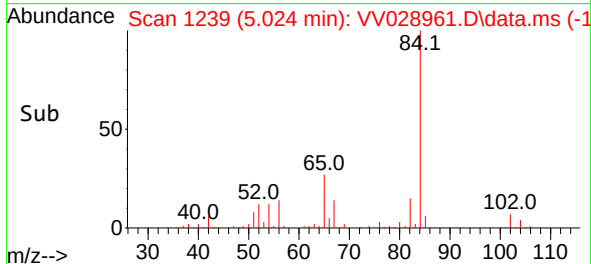
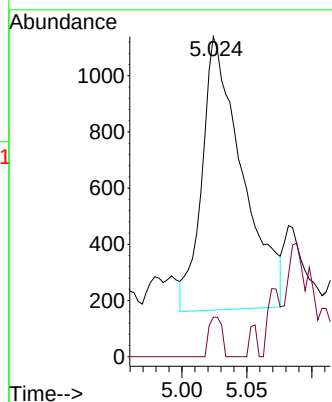
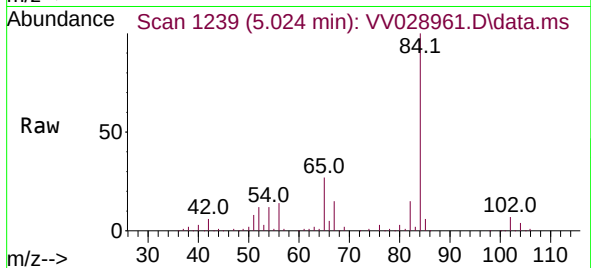
H46G3

Tgt Ion: 62 Resp: 2096

Ion Ratio Lower Upper

62 100

98 12.4 9.0 13.6



#30

Cyclohexane

Concen: 0.180 ug/L

RT: 4.651 min Scan# 1123

Delta R.T. -0.026 min

Lab File: VV028961.D

Acq: 15 Nov 2022 00:57

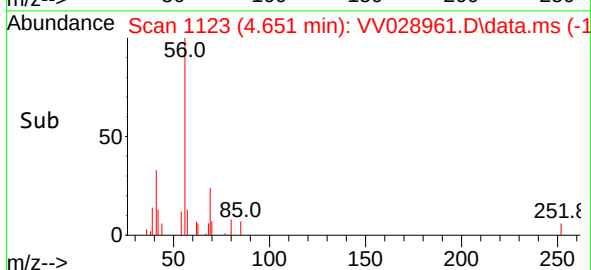
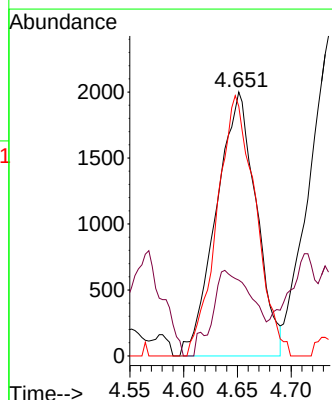
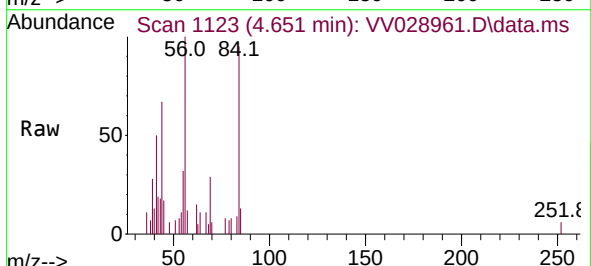
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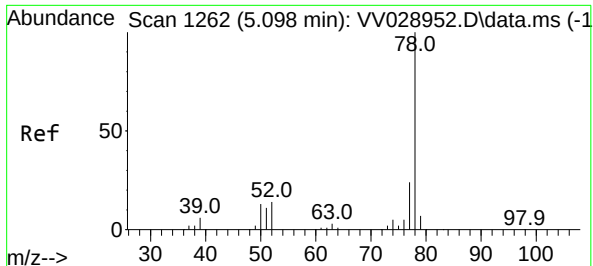
Ion Ratio Lower Upper

56 100

69 26.7 26.1 39.1

84 95.1 77.9 116.9

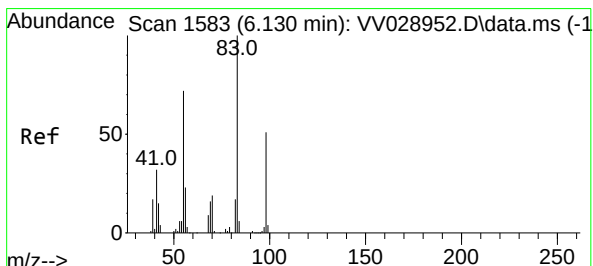
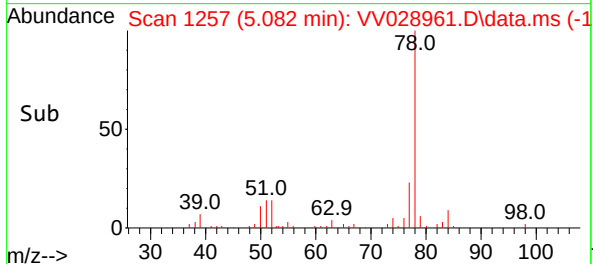
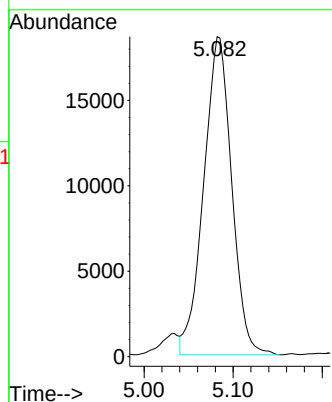
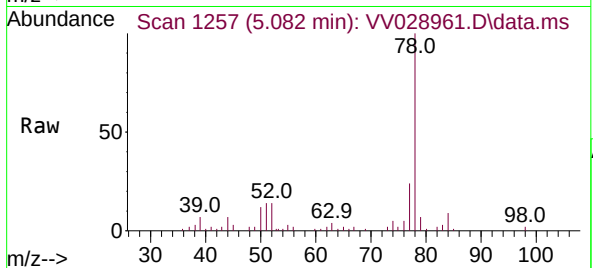




#33
Benzene
Concen: 0.552 ug/L
RT: 5.082 min Scan# 11
Delta R.T. -0.016 min
Lab File: VV028961.D
Acq: 15 Nov 2022 00:57

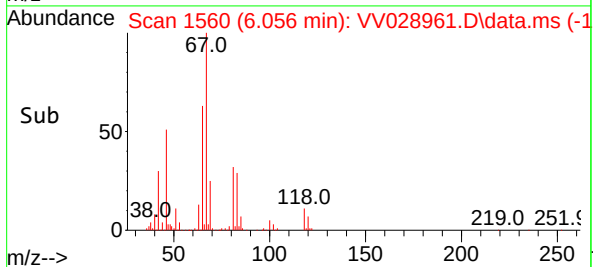
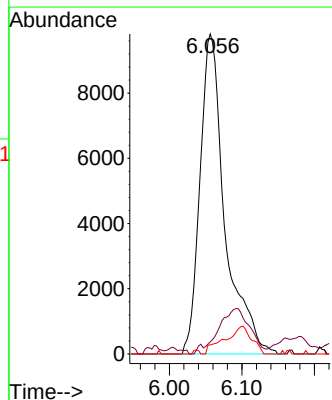
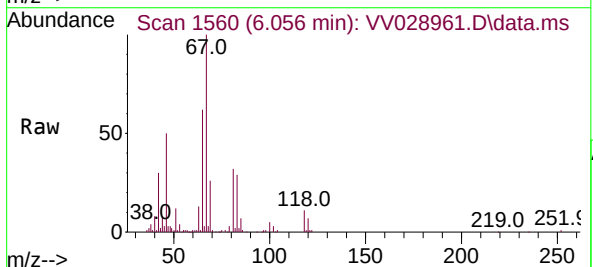
Instrument :
MSVOA_V
ClientSampleId :
H46G3

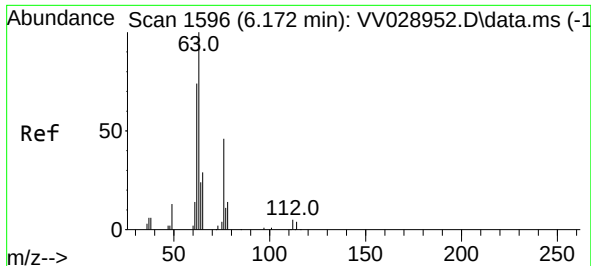
Tgt Ion: 78 Resp: 40671



#35
Methylcyclohexane
Concen: 0.709 ug/L
RT: 6.056 min Scan# 1560
Delta R.T. -0.074 min
Lab File: VV028961.D
Acq: 15 Nov 2022 00:57

Tgt Ion: 83 Resp: 23489
Ion Ratio Lower Upper
83 100
55 0.7 55.8 83.6#
98 0.3 38.2 57.2#





#37

1,2-Dichloropropane

Concen: 0.485 ug/L

RT: 6.056 min Scan# 11

Delta R.T. -0.116 min

Lab File: VV028961.D

Acq: 15 Nov 2022 00:57

Instrument :

MSVOA_V

ClientSampleId :

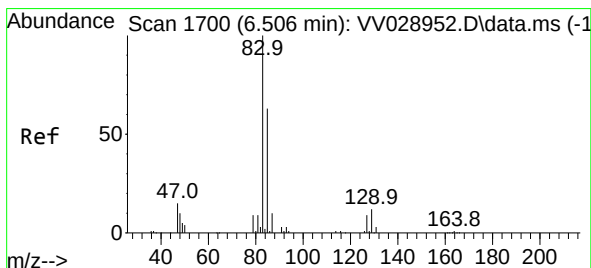
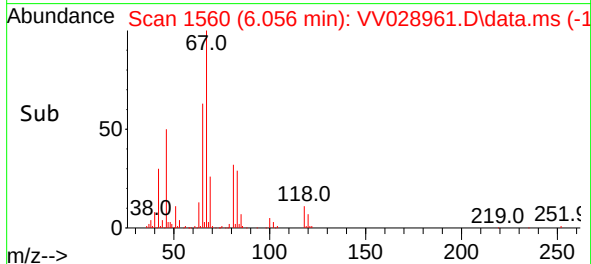
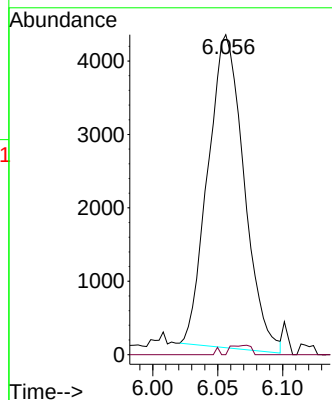
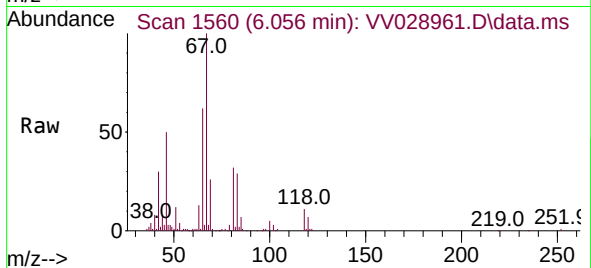
H46G3

Tgt Ion: 63 Resp: 8229

Ion Ratio Lower Upper

63 100

112 0.2 4.0 6.0#



#38

Bromodichloromethane

Concen: 0.110 ug/L

RT: 6.535 min Scan# 1709

Delta R.T. 0.029 min

Lab File: VV028961.D

Acq: 15 Nov 2022 00:57

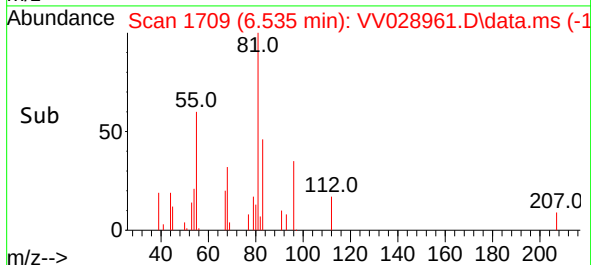
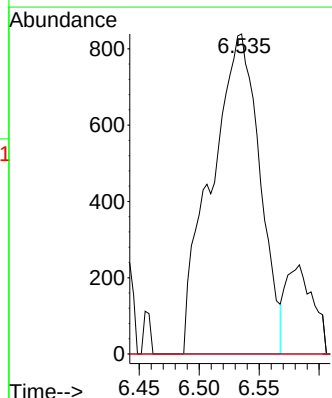
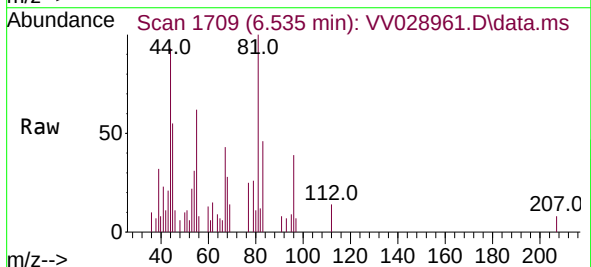
Tgt Ion: 83 Resp: 2362

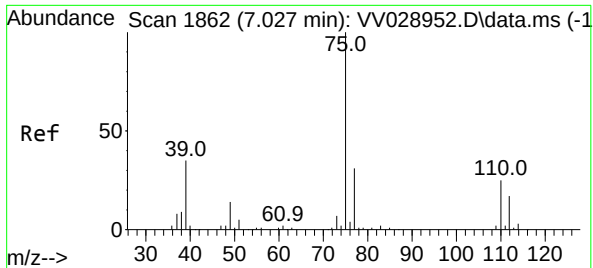
Ion Ratio Lower Upper

83 100

85 0.0 46.1 85.5#

127 0.0 6.7 10.1#





#39

cis-1,3-Dichloropropene

Concen: 0.080 ug/L

RT: 6.969 min Scan# 1862

Delta R.T. -0.058 min

Lab File: VV028961.D

Acq: 15 Nov 2022 00:57

Instrument :

MSVOA_V

ClientSampleId :

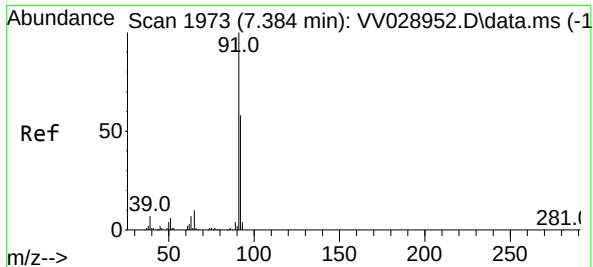
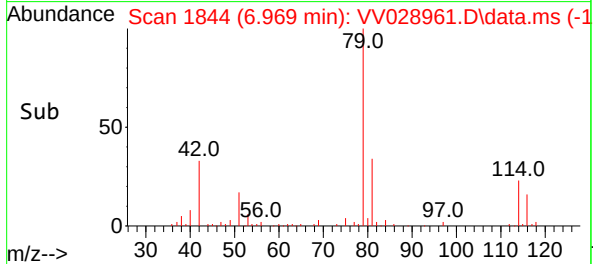
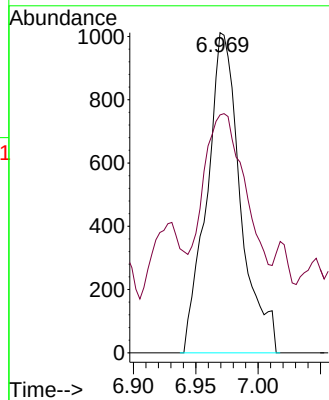
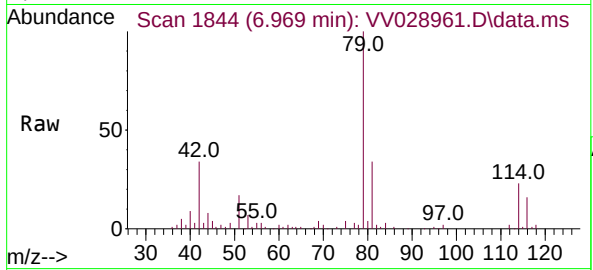
H46G3

Tgt Ion: 75 Resp: 1897

Ion Ratio Lower Upper

75 100

77 74.3 21.8 40.6#



#42

Toluene

Concen: 0.787 ug/L

RT: 7.371 min Scan# 1969

Delta R.T. -0.013 min

Lab File: VV028961.D

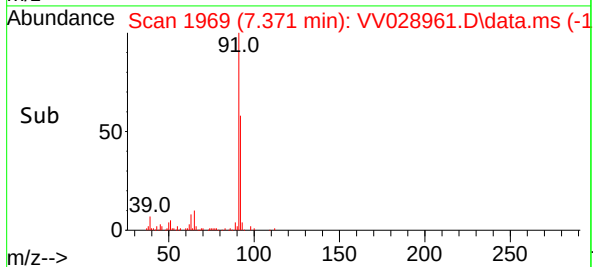
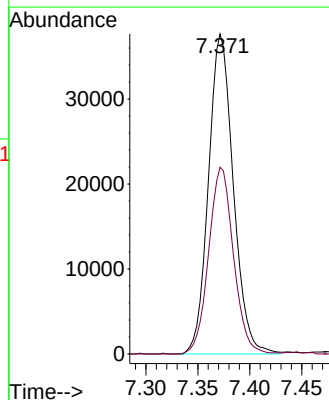
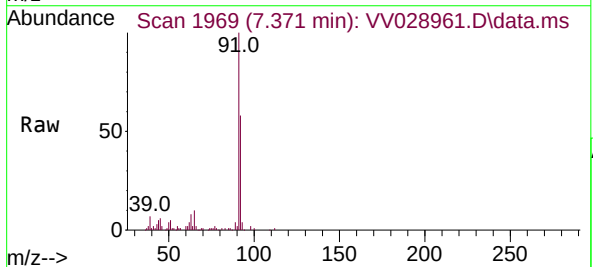
Acq: 15 Nov 2022 00:57

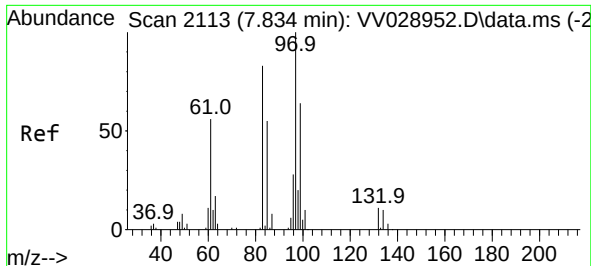
Tgt Ion: 91 Resp: 62620

Ion Ratio Lower Upper

91 100

92 58.3 40.7 75.5





#45

1,1,2-Trichloroethane

Concen: 0.405 ug/L

RT: 7.767 min Scan# 2092

Delta R.T. -0.067 min

Lab File: VV028961.D

Acq: 15 Nov 2022 00:57

Instrument :

MSVOA_V

ClientSampleId :

H46G3

Tgt Ion: 97 Resp: 4498

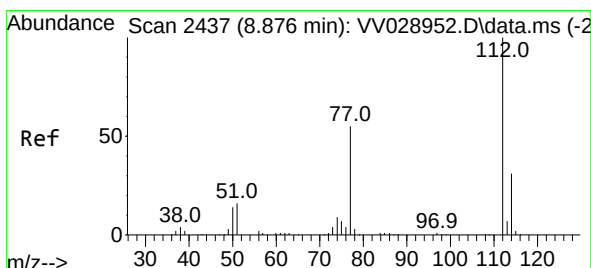
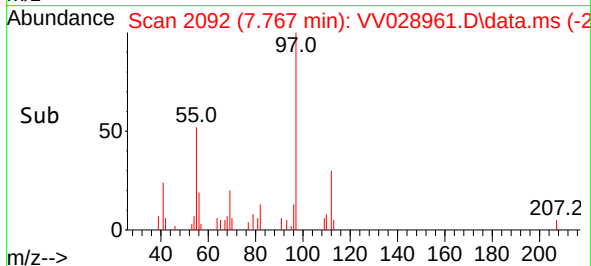
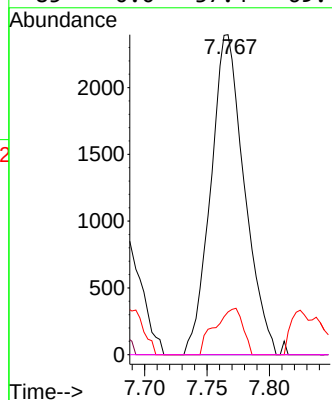
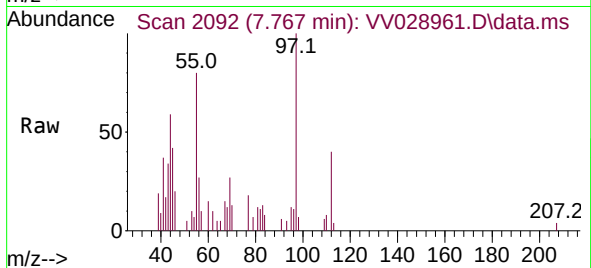
Ion Ratio Lower Upper

97 100

99 0.0 41.5 77.1#

83 13.4 60.0 111.4#

85 0.0 37.4 69.4#



#51

Chlorobenzene

Concen: 0.072 ug/L

RT: 8.873 min Scan# 2436

Delta R.T. -0.003 min

Lab File: VV028961.D

Acq: 15 Nov 2022 00:57

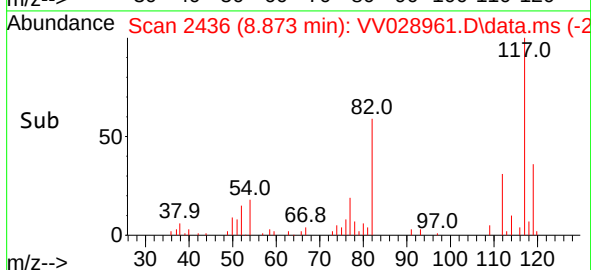
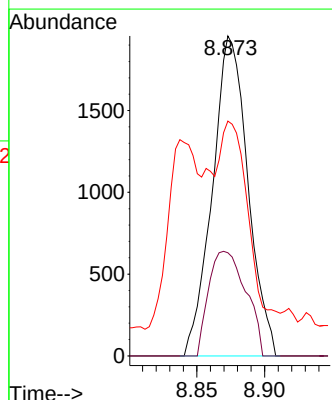
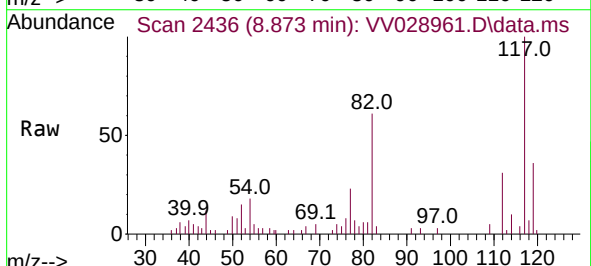
Tgt Ion: 112 Resp: 3555

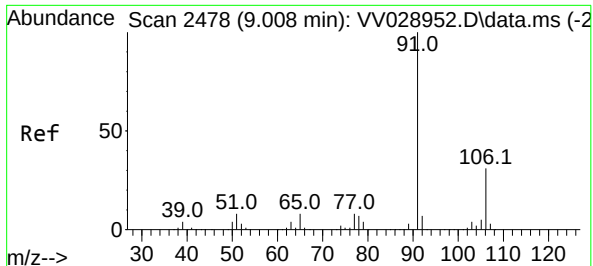
Ion Ratio Lower Upper

112 100

114 32.3 22.4 41.6

77 73.4 44.4 66.6#

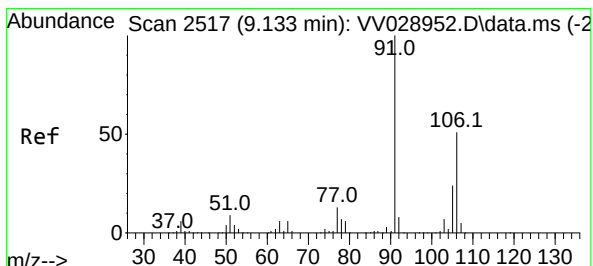
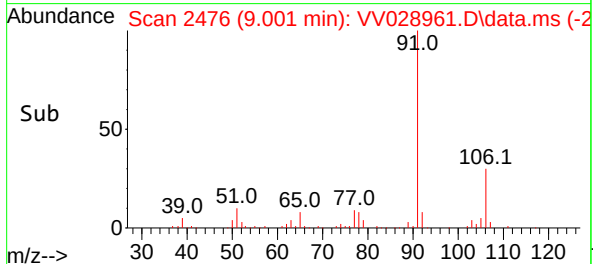
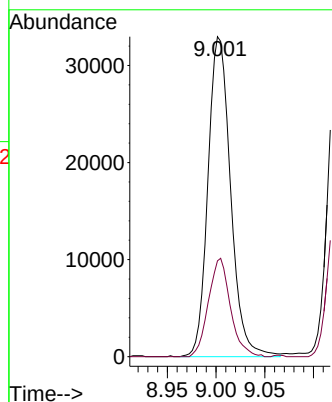
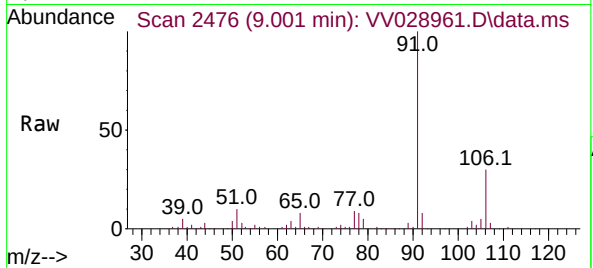




#52
Ethylbenzene
Concen: 0.644 ug/L
RT: 9.001 min Scan# 2478
Delta R.T. -0.006 min
Lab File: VV028961.D
Acq: 15 Nov 2022 00:57

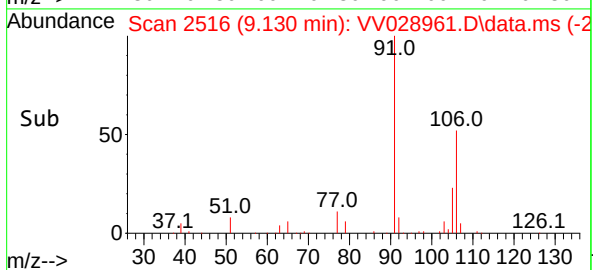
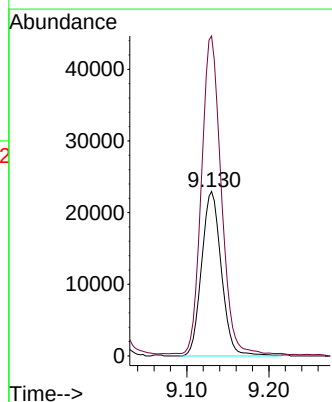
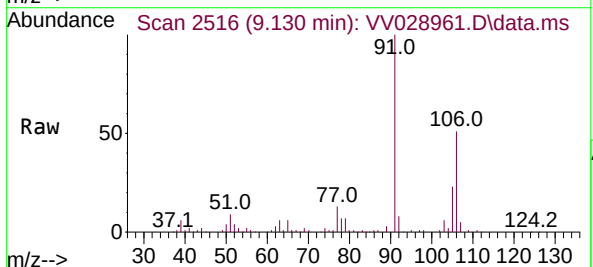
Instrument :
MSVOA_V
ClientSampleId :
H46G3

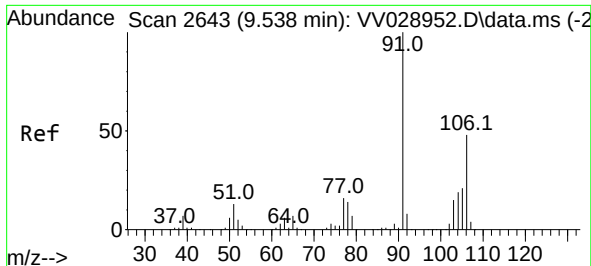
Tgt Ion: 91 Resp: 53300
Ion Ratio Lower Upper
91 100
106 30.0 21.6 40.2



#53
m,p-Xylene
Concen: 1.165 ug/L
RT: 9.130 min Scan# 2516
Delta R.T. -0.003 min
Lab File: VV028961.D
Acq: 15 Nov 2022 00:57

Tgt Ion: 106 Resp: 38358
Ion Ratio Lower Upper
106 100
91 194.6 139.1 258.3

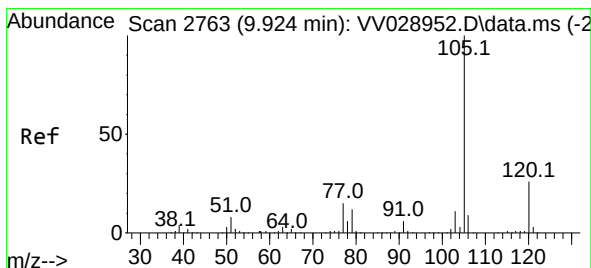
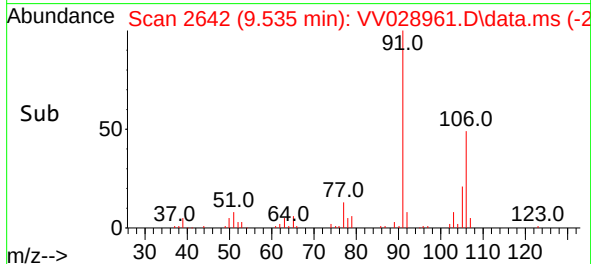
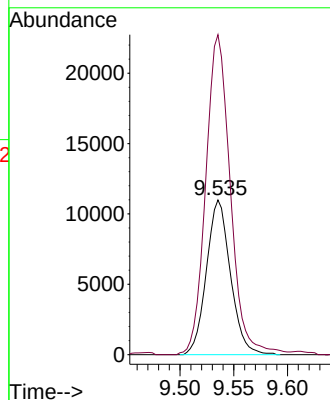
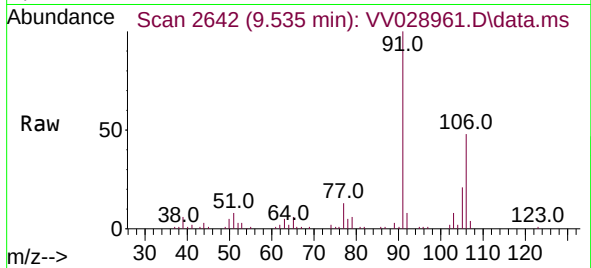




#54
o-Xylene
Concen: 0.546 ug/L
RT: 9.535 min Scan# 2642
Delta R.T. -0.003 min
Lab File: VV028961.D
Acq: 15 Nov 2022 00:57

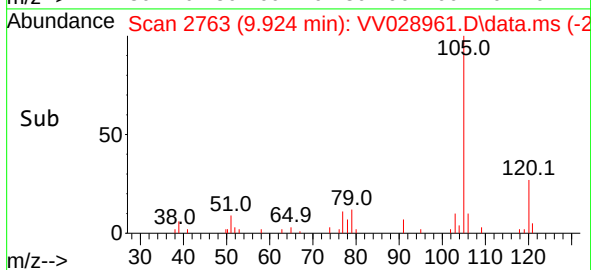
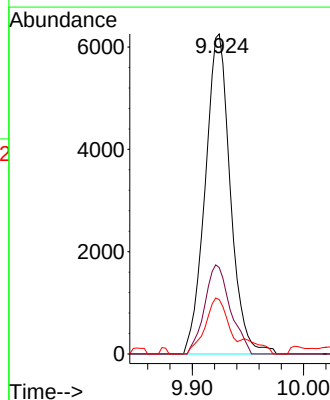
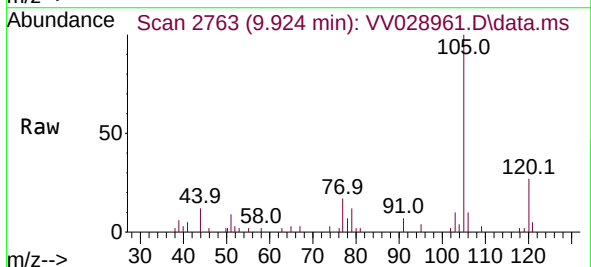
Instrument :
MSVOA_V
ClientSampleId :
H46G3

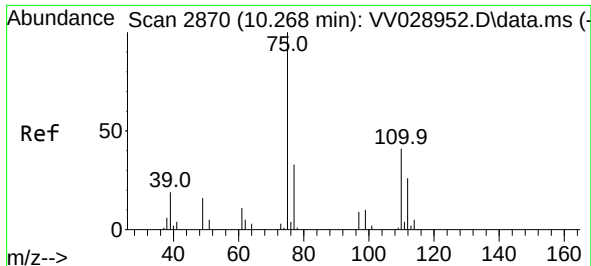
Tgt Ion:106 Resp: 17094
Ion Ratio Lower Upper
106 100
91 206.9 145.7 270.7



#60
Isopropylbenzene
Concen: 0.127 ug/L
RT: 9.924 min Scan# 2763
Delta R.T. 0.000 min
Lab File: VV028961.D
Acq: 15 Nov 2022 00:57

Tgt Ion:105 Resp: 9806
Ion Ratio Lower Upper
105 100
120 28.4 21.3 31.9
77 15.7 11.8 17.8





#61

1,2,3-Trichloropropane

Concen: 1.529 ug/L

RT: 11.239 min Scan# 31

Delta R.T. 0.971 min

Lab File: VV028961.D

Acq: 15 Nov 2022 00:57

Instrument :

MSVOA_V

ClientSampleId :

H46G3

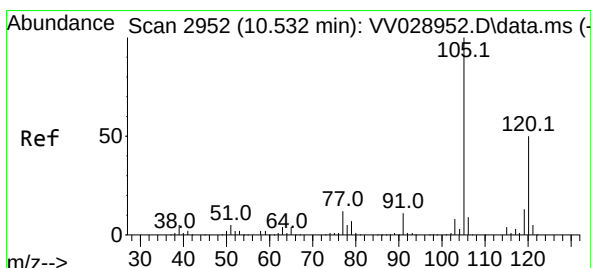
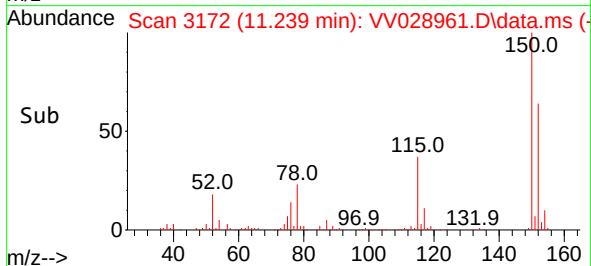
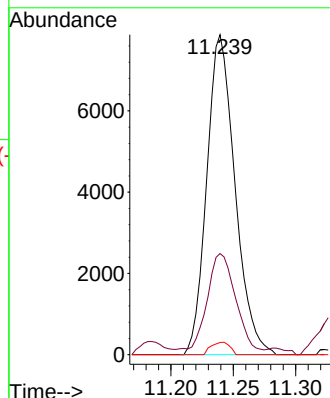
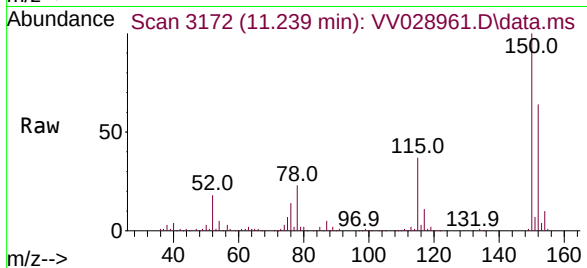
Tgt Ion: 75 Resp: 12420

Ion Ratio Lower Upper

75 100

77 33.2 26.2 39.2

110 2.6 32.6 48.8#



#62

1,3,5-Trimethylbenzene

Concen: 0.062 ug/L

RT: 10.532 min Scan# 2952

Delta R.T. 0.000 min

Lab File: VV028961.D

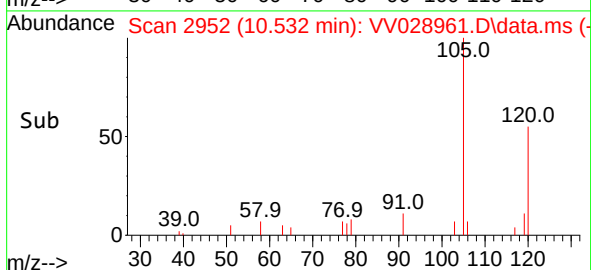
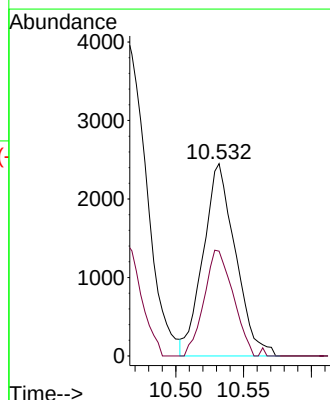
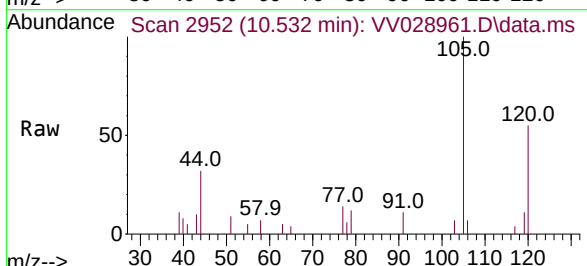
Acq: 15 Nov 2022 00:57

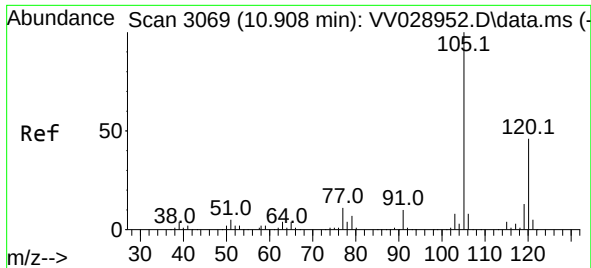
Tgt Ion: 105 Resp: 4052

Ion Ratio Lower Upper

105 100

120 49.5 39.9 59.9

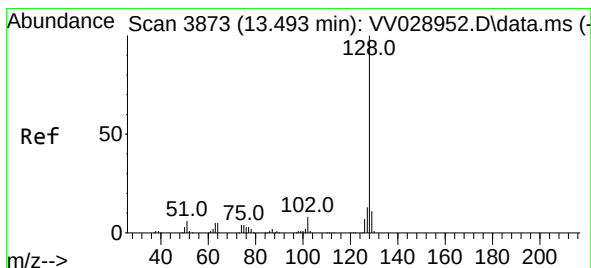
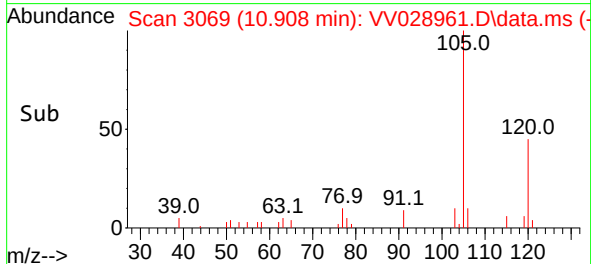
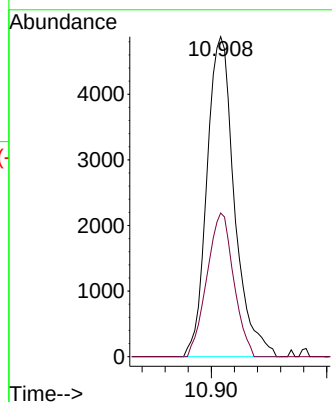
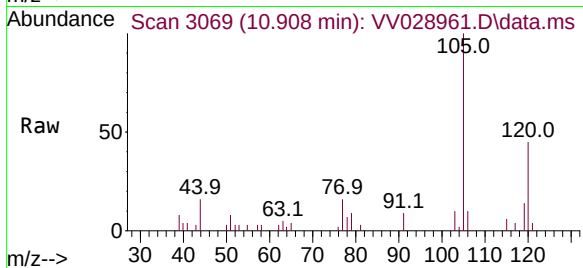




#63
1,2,4-Trimethylbenzene
Concen: 0.123 ug/L
RT: 10.908 min Scan# 3069
Delta R.T. 0.000 min
Lab File: VV028961.D
Acq: 15 Nov 2022 00:57

Instrument :
MSVOA_V
ClientSampleId :
H46G3

Tgt Ion:105 Resp: 8068
Ion Ratio Lower Upper
105 100
120 43.5 37.8 56.8



#71
Naphthalene
Concen: 0.125 ug/L
RT: 13.500 min Scan# 3875
Delta R.T. 0.007 min
Lab File: VV028961.D
Acq: 15 Nov 2022 00:57

Tgt Ion:128 Resp: 3408
Ion Ratio Lower Upper
128 100
129 7.7 8.8 13.2#
127 13.6 9.8 14.8

