

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW102722\
 Data File : VW028730.D
 Acq On : 27 Oct 2022 19:43
 Operator : SY/MD
 Sample : N5233-08
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BHA76

Quant Time: Oct 28 02:20:44 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR102522WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Oct 28 02:13:29 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	175650	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.847	117	158833	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.242	152	70537	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	81979	6.711	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	134.200%#
7) Chloroethane-d5	1.568	69	73636	7.129	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	142.600%#
11) 1,1-Dichloroethene-d2	2.105	63	121632	5.147	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	103.000%
20) 2-Butanone-d5	3.896	46	179633	64.488	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	128.980%
24) Chloroform-d	4.346	84	131477	6.198	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	124.000%
26) 1,2-Dichloroethane-d4	5.031	65	68997	6.410	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	128.200%
32) Benzene-d6	5.047	84	270713	6.373	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	127.400%#
36) 1,2-Dichloropropane-d6	6.069	67	88385	6.573	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	131.400%
41) Toluene-d8	7.313	98	216477	6.531	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	130.600%#
43) trans-1,3-Dichloroprop...	7.625	79	12000	2.873	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	57.400%
46) 2-Hexanone-d5	8.088	63	116932	60.133	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	120.260%
56) 1,1,2,2-Tetrachloroeth...	10.210	84	57712	6.472	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	129.400%#
66) 1,2-Dichlorobenzene-d4	11.615	152	69391	7.132	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	142.600%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.127	85	3728	0.503	ug/L	98
3) Chloromethane	1.240	50	1487	0.108	ug/L #	80
5) Vinyl chloride	1.310	62	151859	11.052	ug/L	97
6) Bromomethane	1.523	94	882	0.134	ug/L	85
8) Chloroethane	1.584	64	7601	0.814	ug/L #	59
10) 1,1,2-Trichloro-1,2,2-...	2.105	101	1087	0.100	ug/L #	29
12) 1,1-Dichloroethene	2.114	96	8806	0.912	ug/L #	1
14) Carbon disulfide	2.291	76	7960	0.357	ug/L #	93
16) Methylene chloride	2.506	84	3952	0.297	ug/L	93
18) trans-1,2-Dichloroethene	2.761	96	6499	0.669	ug/L	86
19) 1,1-Dichloroethane	3.188	63	19508	0.832	ug/L #	94
22) cis-1,2-Dichloroethene	3.902	96	808225	69.390	ug/L #	99
27) 1,2-Dichloroethane	5.092	62	65121	4.831	ug/L #	77
30) Cyclohexane	4.674	56	45828	2.315	ug/L	97
33) Benzene	5.092	78	6967184	146.769	ug/L	100
35) Methylcyclohexane	6.130	83	16078	0.990	ug/L	95
42) Toluene	7.387	91	108217	2.404	ug/L	99
44) trans-1,3-Dichloropropene	7.625	75	880	0.074	ug/L #	1
47) Tetrachloroethene	7.976	164	560	0.078	ug/L #	72

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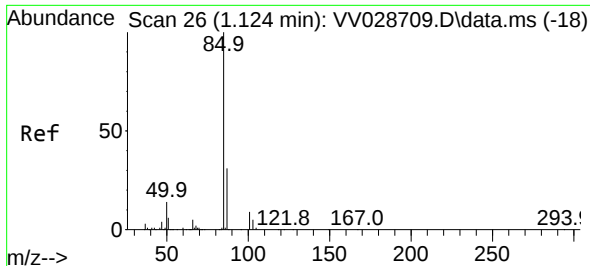
Instrument :
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 ClientSampleId :
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Quant Time: Oct 28 02:20:44 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR102522WMA.M
 Quant Title : TRACE VOA SFAM1.0
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 Response via : Initial Calibration

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

49) Dibromochloromethane	7.979	129	762	0.098	ug/L #	13
51) Chlorobenzene	8.876	112	697569	24.612	ug/L	98
52) Ethylbenzene	9.008	91	487974	9.755	ug/L	98
53) m,p-Xylene	9.133	106	44150	2.444	ug/L	99
54) o-Xylene	9.538	106	21083	1.160	ug/L	98
55) Styrene	9.567	104	1667	0.054	ug/L	88
60) Isopropylbenzene	9.924	105	140503	3.165	ug/L	100
61) 1,2,3-Trichloropropane	9.927	75	2188	0.361	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.911	105	21413	1.654	ug/L	98
63) 1,2,4-Trimethylbenzene	10.911	105	21413	0.597	ug/L	98
65) 1,4-Dichlorobenzene	11.268	146	29696	1.557	ug/L	97
67) 1,2-Dichlorobenzene	11.635	146	16301	0.932	ug/L	97
71) Naphthalene	13.506	128	2467	0.130	ug/L #	93

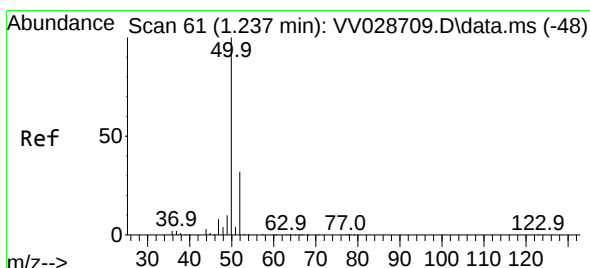
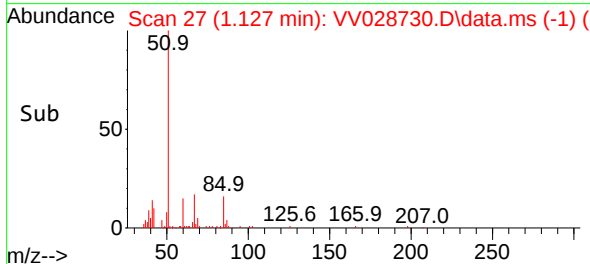
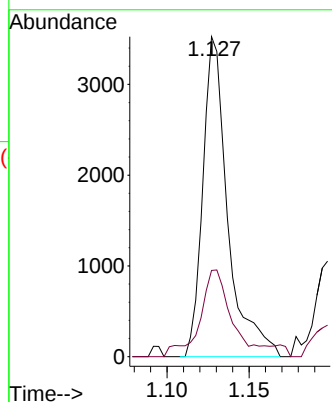
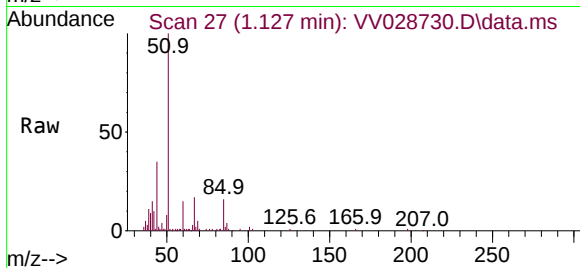
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#2
 Dichlorodifluoromethane
 Concen: 0.503 ug/L
 RT: 1.127 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: VV028730.D
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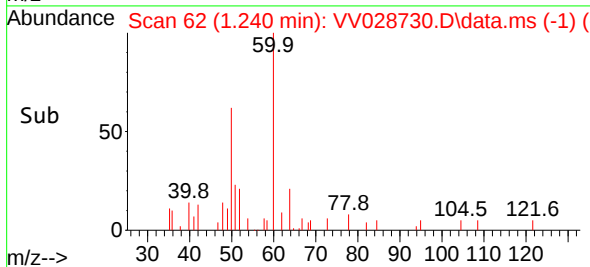
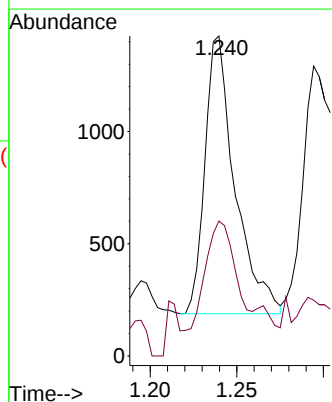
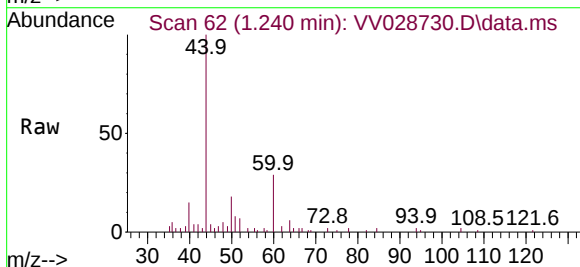
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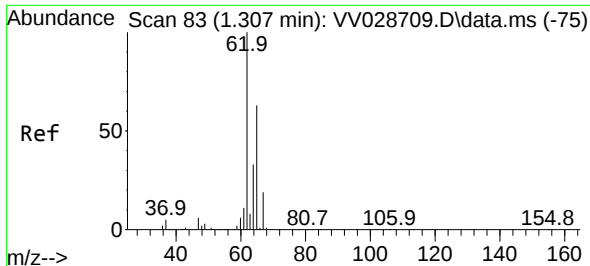
Tgt Ion: 85 Resp: 3728
 Ion Ratio Lower Upper
 85 100
 87 34.6 26.6 40.0



#3
 Chloromethane
 Concen: 0.108 ug/L
 RT: 1.240 min Scan# 62
 Delta R.T. 0.003 min
 Lab File: VV028730.D
 Acq: 27 Oct 2022 19:43

Tgt Ion: 50 Resp: 1487
 Ion Ratio Lower Upper
 50 100
 52 42.1 21.8 40.6#

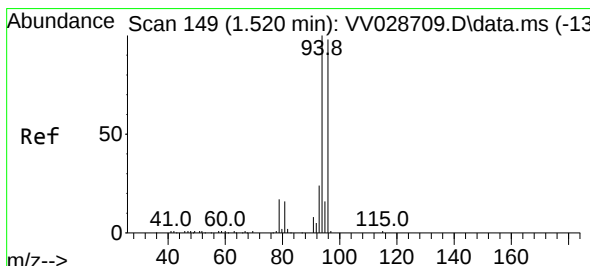
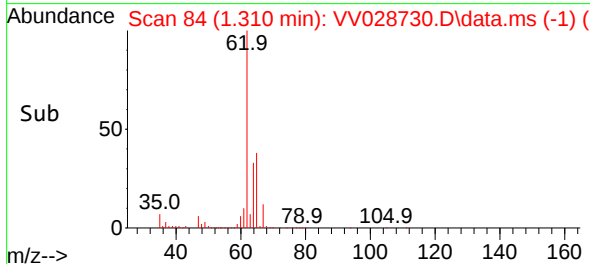
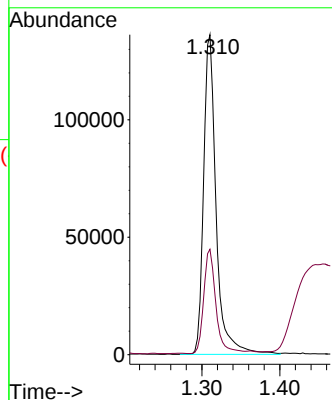
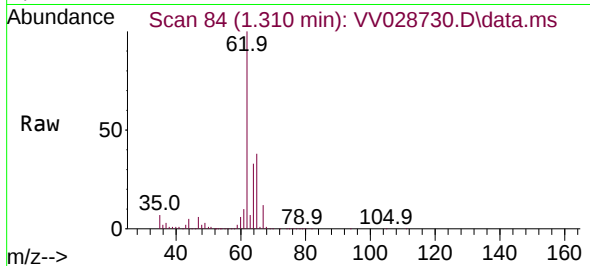




#5
 Vinyl chloride
 Concen: 11.052 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. 0.003 min
 Lab File: VV028730.D
 Acq: 27 Oct 2022 19:43

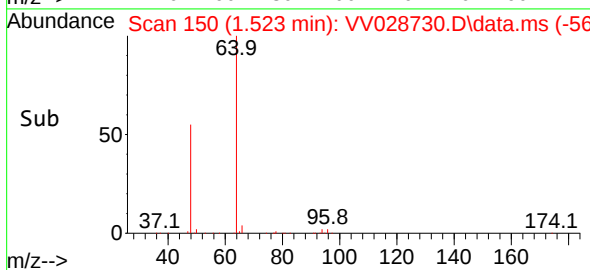
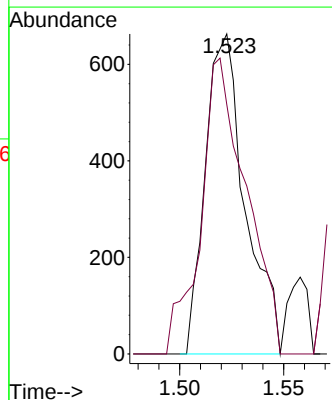
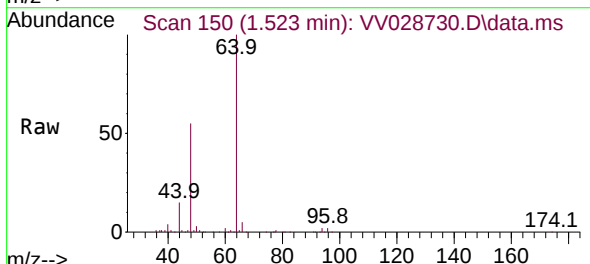
Instrument :
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 ClientSampleId :
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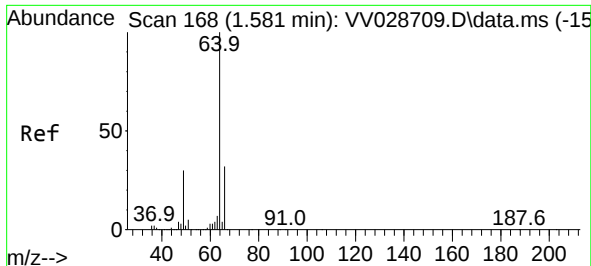
Tgt Ion: 62 Resp: 151859
 Ion Ratio Lower Upper
 62 100
 64 32.9 22.0 41.0



#6
 Bromomethane
 Concen: 0.134 ug/L
 RT: 1.523 min Scan# 150
 Delta R.T. 0.003 min
 Lab File: VV028730.D
 Acq: 27 Oct 2022 19:43

Tgt Ion: 94 Resp: 882
 Ion Ratio Lower Upper
 94 100
 96 78.0 64.3 119.3

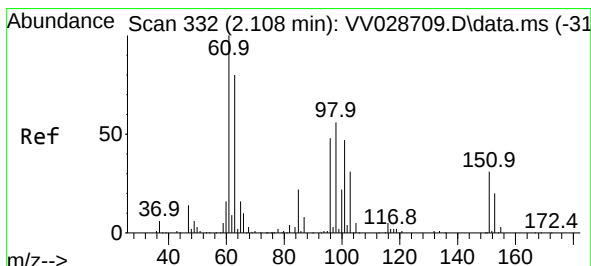
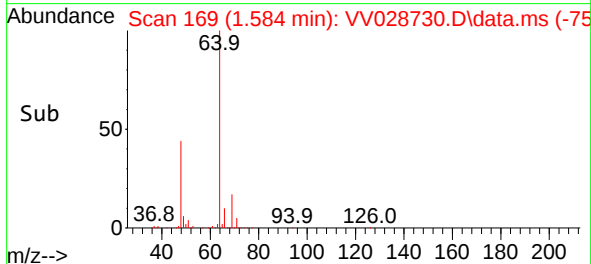
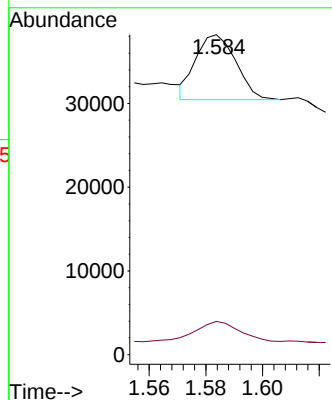
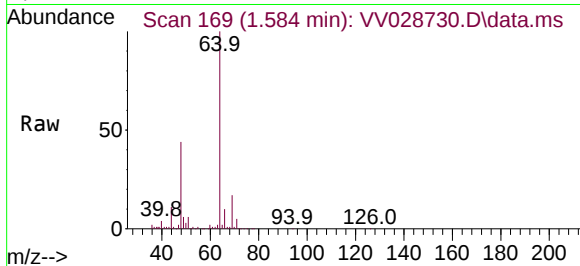




#8
Chloroethane
Concen: 0.814 ug/L
RT: 1.584 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV028730.D
Acq: 27 Oct 2022 19:43

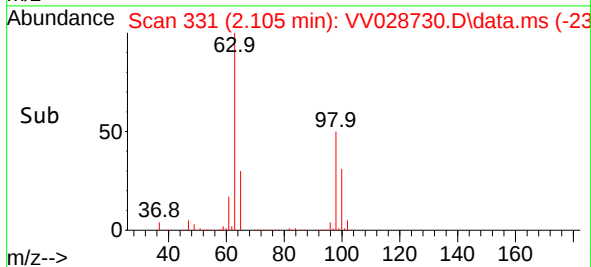
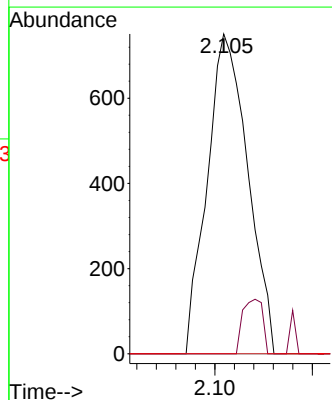
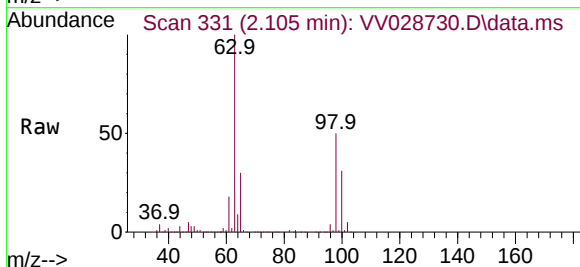
Instrument :
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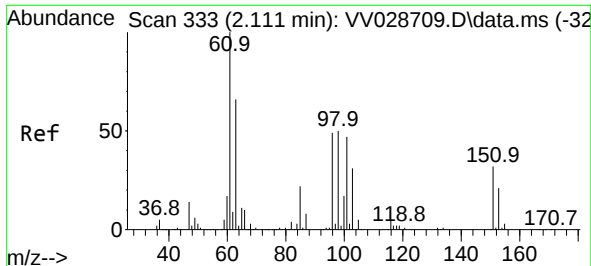
Tgt Ion: 64 Resp: 7601
Ion Ratio Lower Upper
64 100
66 10.4 23.9 44.5#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.100 ug/L
RT: 2.105 min Scan# 331
Delta R.T. -0.003 min
Lab File: VV028730.D
Acq: 27 Oct 2022 19:43

Tgt Ion: 101 Resp: 1087
Ion Ratio Lower Upper
101 100
85 8.4 37.0 55.6#
151 0.0 50.2 75.2#

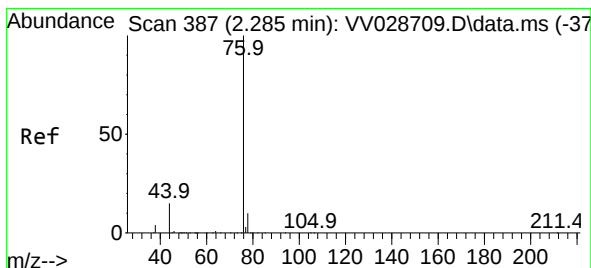
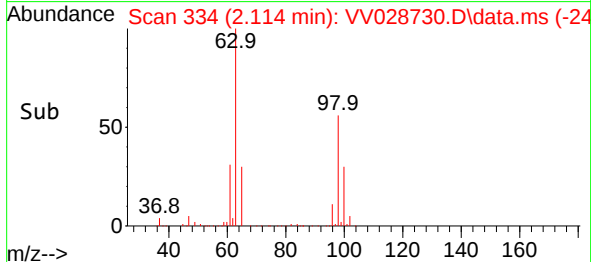
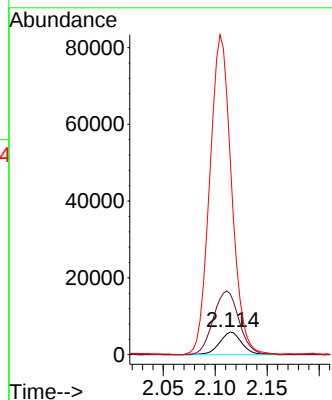
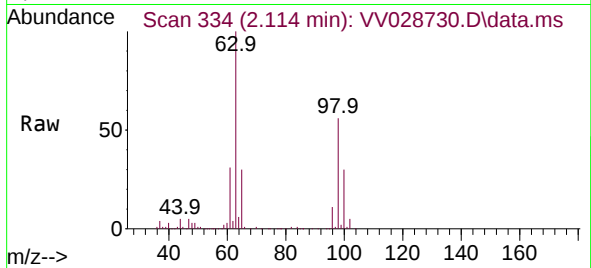




#12
1,1-Dichloroethene
Concen: 0.912 ug/L
RT: 2.114 min Scan# 311
Delta R.T. 0.003 min
Lab File: VV028730.D
Acq: 27 Oct 2022 19:43

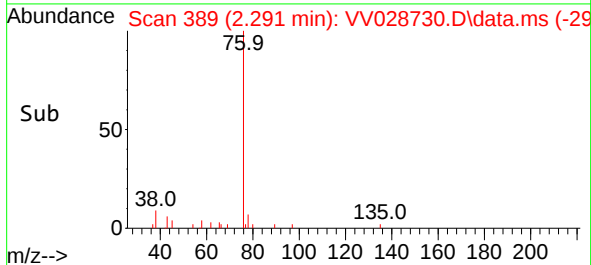
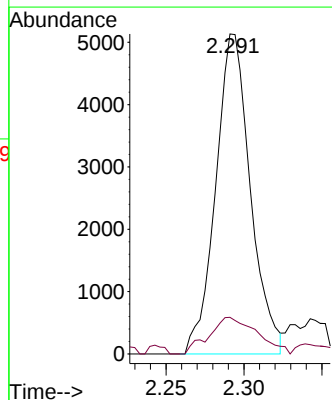
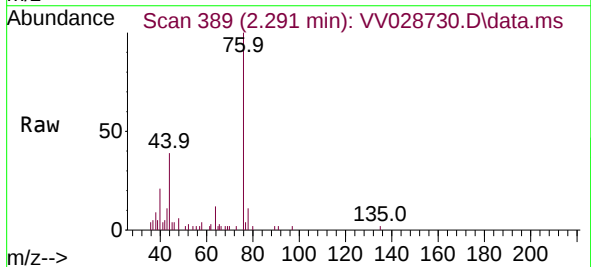
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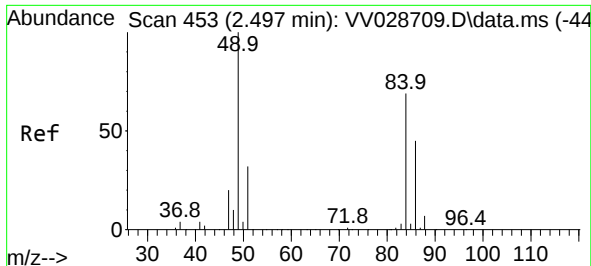
Tgt Ion: 96 Resp: 8806
Ion Ratio Lower Upper
96 100
61 270.7 148.1 275.1
63 874.2 133.3 247.7#



#14
Carbon disulfide
Concen: 0.357 ug/L
RT: 2.291 min Scan# 389
Delta R.T. 0.006 min
Lab File: VV028730.D
Acq: 27 Oct 2022 19:43

Tgt Ion: 76 Resp: 7960
Ion Ratio Lower Upper
76 100
78 11.4 7.1 10.7#

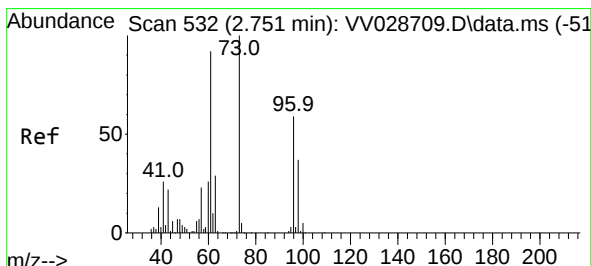
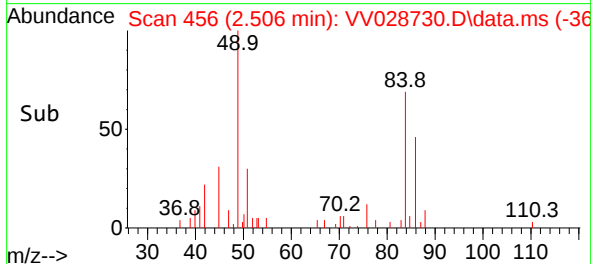
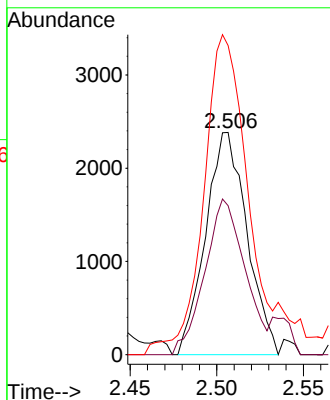
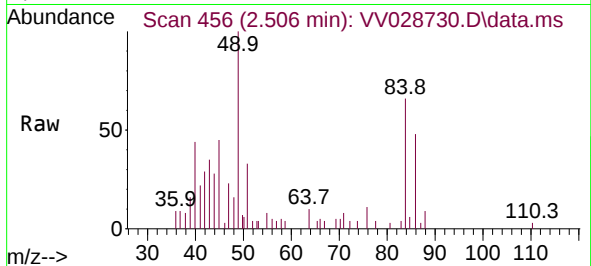




#16
Methylene chloride
Concen: 0.297 ug/L
RT: 2.506 min Scan# 456
Delta R.T. 0.010 min
Lab File: VV028730.D
Acq: 27 Oct 2022 19:43

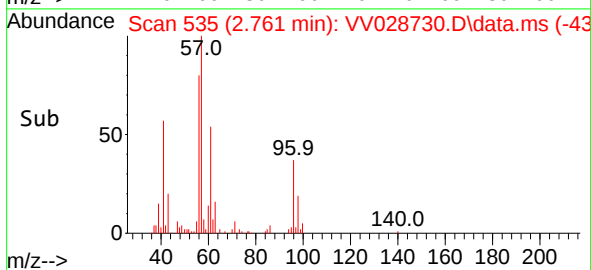
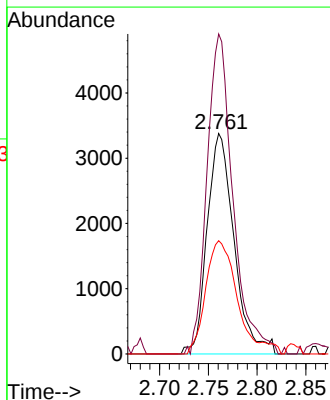
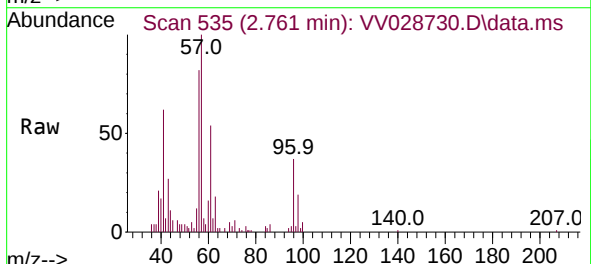
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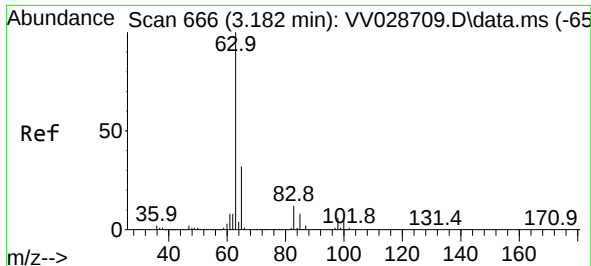
Tgt Ion: 84 Resp: 3952
Ion Ratio Lower Upper
84 100
86 67.1 44.4 82.4
49 148.2 110.8 205.8



#18
trans-1,2-Dichloroethene
Concen: 0.669 ug/L
RT: 2.761 min Scan# 535
Delta R.T. 0.010 min
Lab File: VV028730.D
Acq: 27 Oct 2022 19:43

Tgt Ion: 96 Resp: 6499
Ion Ratio Lower Upper
96 100
61 145.1 114.3 212.3
98 51.3 45.0 83.6





#19

1,1-Dichloroethane

Concen: 0.832 ug/L

RT: 3.188 min Scan# 6

Delta R.T. 0.006 min

Lab File: VV028730.D

Acq: 27 Oct 2022 19:43

Instrument :

MSVOA_V

ClientSampleId :

BHA76

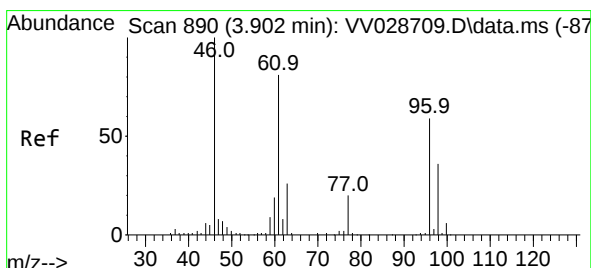
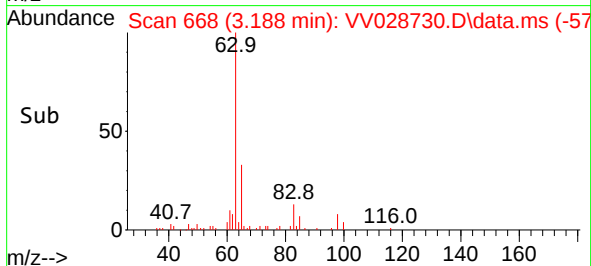
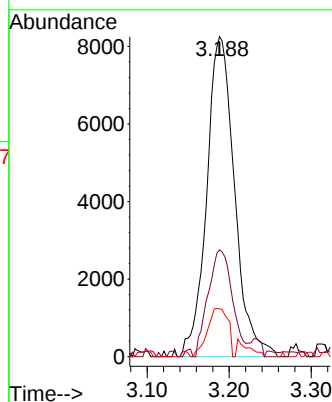
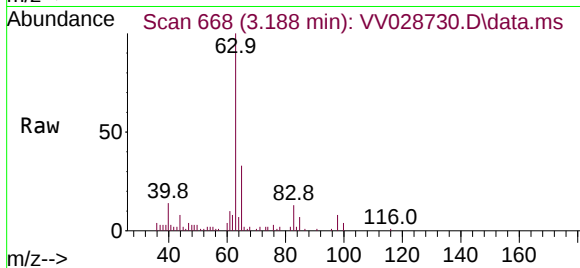
Tgt Ion: 63 Resp: 19508

Ion Ratio Lower Upper

63 100

65 35.7 23.1 42.9

83 14.9 7.9 14.7#



#22

cis-1,2-Dichloroethene

Concen: 69.390 ug/L

RT: 3.902 min Scan# 890

Delta R.T. -0.000 min

Lab File: VV028730.D

Acq: 27 Oct 2022 19:43

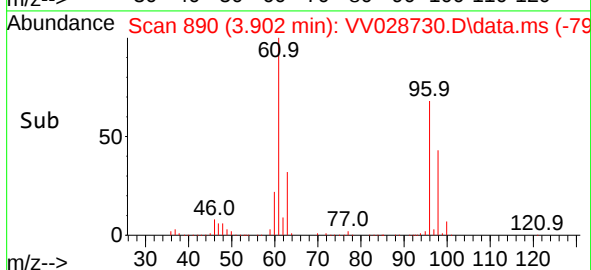
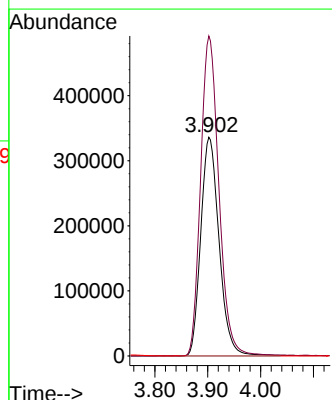
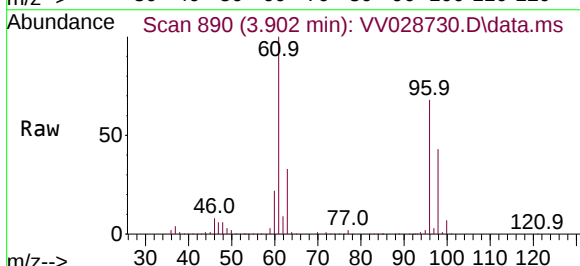
Tgt Ion: 96 Resp: 808225

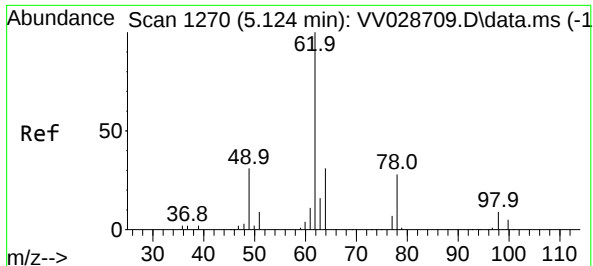
Ion Ratio Lower Upper

96 100

61 146.3 101.4 188.2

68 0.0 0.5 0.9#





#27

1,2-Dichloroethane

Concen: 4.831 ug/L

RT: 5.092 min Scan# 1130

Delta R.T. -0.032 min

Lab File: VV028730.D

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Instrument :

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ClientSampleId :

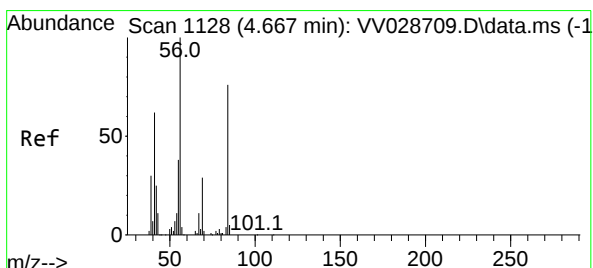
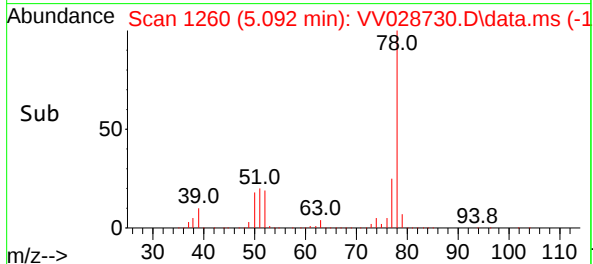
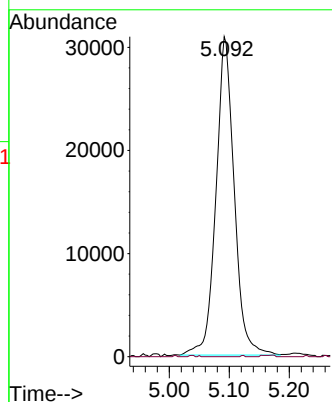
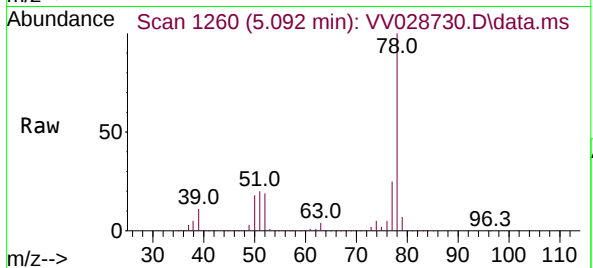
BHA76

Tgt Ion: 62 Resp: 65121

Ion Ratio Lower Upper

62 100

98 0.0 6.6 9.8#



#30

Cyclohexane

Concen: 2.315 ug/L

RT: 4.674 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VV028730.D

Acq: 27 Oct 2022 19:43

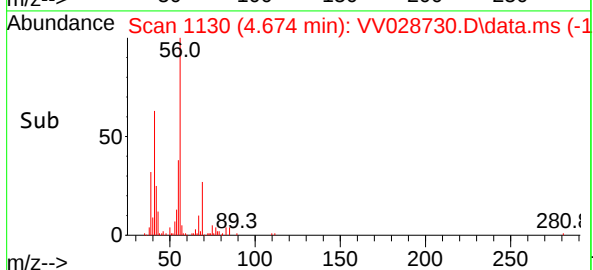
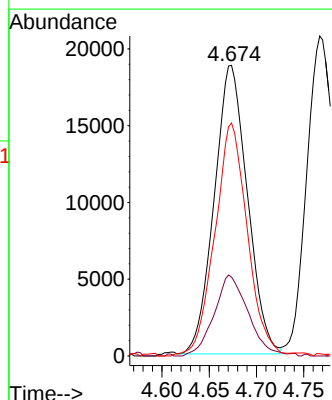
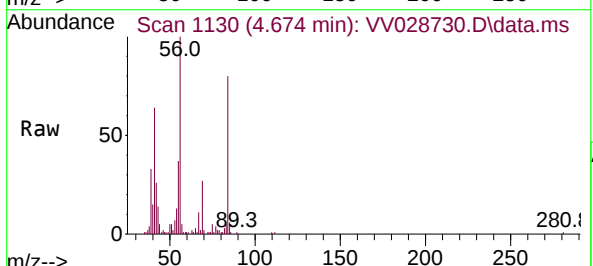
Tgt Ion: 56 Resp: 45828

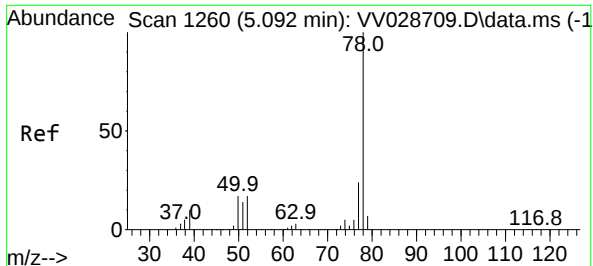
Ion Ratio Lower Upper

56 100

69 28.6 22.6 34.0

84 79.3 60.4 90.6

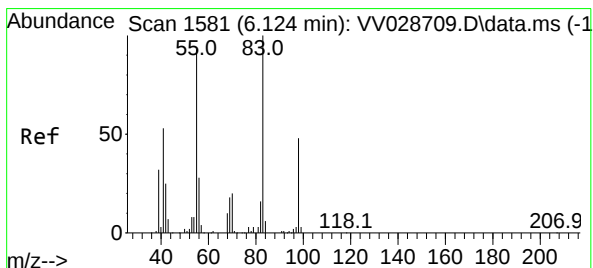
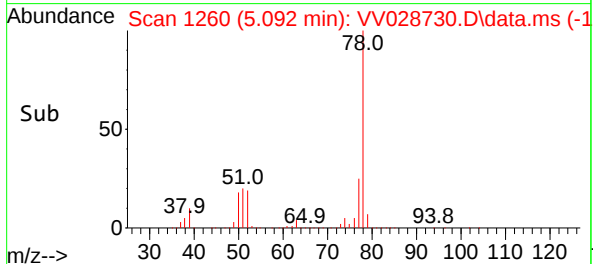
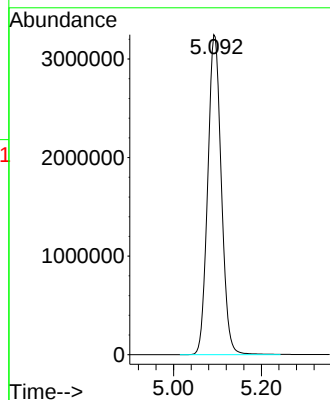
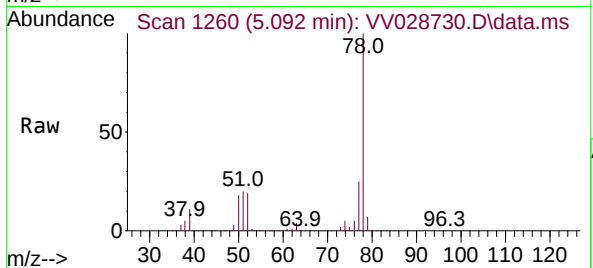




#33
Benzene
Concen: 146.769 ug/L
RT: 5.092 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV028730.D
Acq: 27 Oct 2022 19:43

Instrument :
MSVOA_V
ClientSampleId :
BHA76

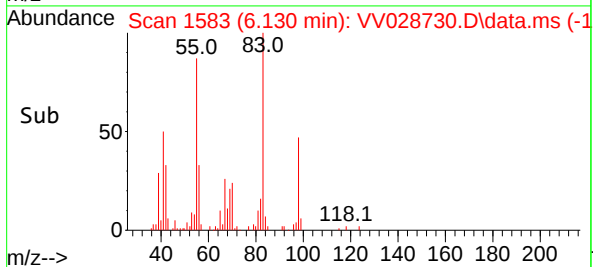
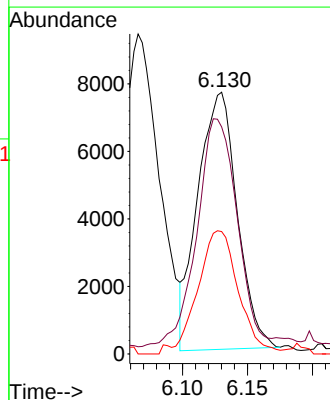
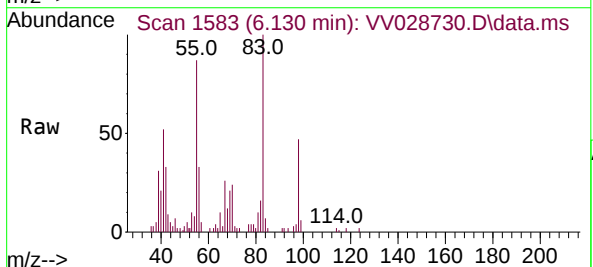
Tgt Ion: 78 Resp: 6967184

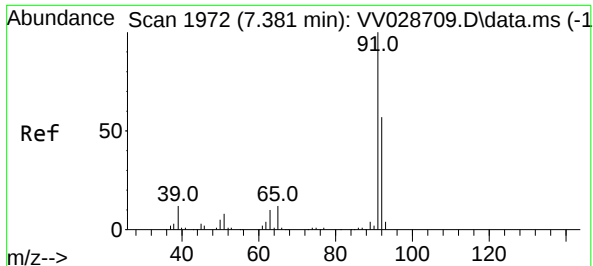


#35
Methylcyclohexane
Concen: 0.990 ug/L
RT: 6.130 min Scan# 1583
Delta R.T. 0.006 min
Lab File: VV028730.D
Acq: 27 Oct 2022 19:43

Tgt Ion: 83 Resp: 16078

Ion	Ratio	Lower	Upper
83	100		
55	90.4	70.0	105.0
98	49.6	35.6	53.4





#42

Toluene

Concen: 2.404 ug/L

RT: 7.387 min Scan# 1972

Delta R.T. 0.006 min

Lab File: VV028730.D

Acq: 27 Oct 2022 19:43

Instrument :

MSVOA_V

ClientSampleId :

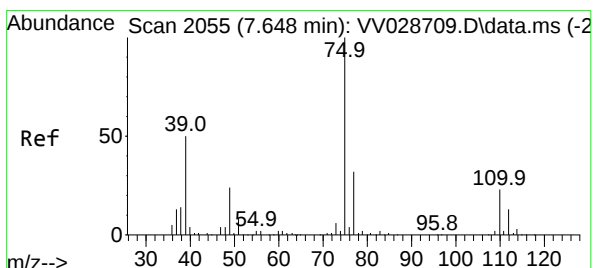
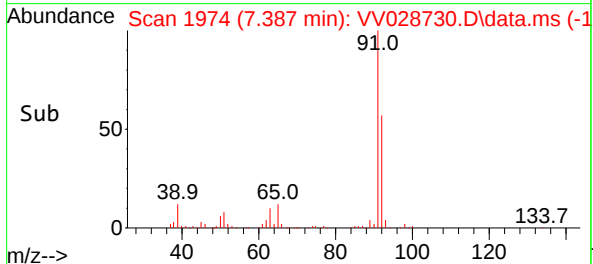
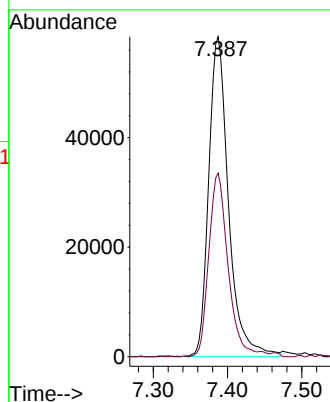
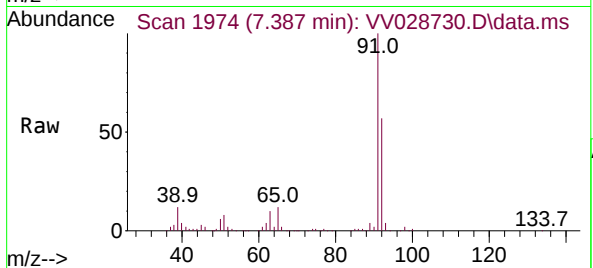
BHA76

Tgt Ion: 91 Resp: 108217

Ion Ratio Lower Upper

91 100

92 57.4 40.5 75.3



#44

trans-1,3-Dichloropropene

Concen: 0.074 ug/L

RT: 7.625 min Scan# 2048

Delta R.T. -0.023 min

Lab File: VV028730.D

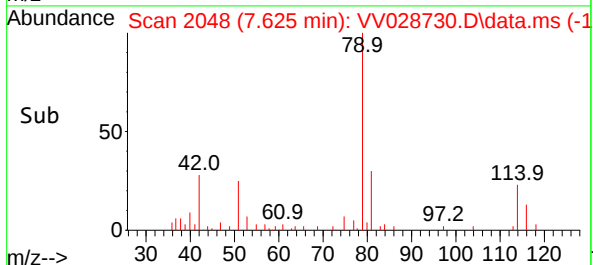
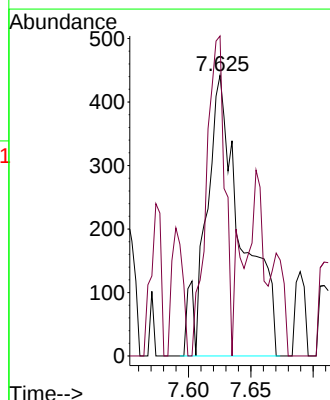
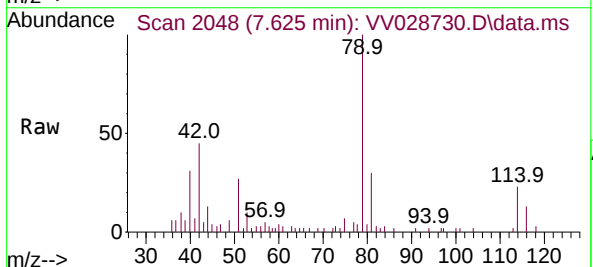
Acq: 27 Oct 2022 19:43

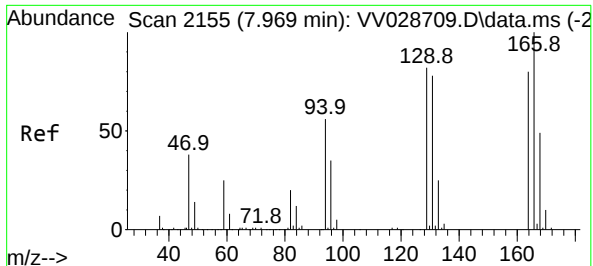
Tgt Ion: 75 Resp: 880

Ion Ratio Lower Upper

75 100

77 114.0 22.6 42.0#





#47

Tetrachloroethene

Concen: 0.078 ug/L

RT: 7.976 min Scan# 2155

Delta R.T. 0.006 min

Lab File: VV028730.D

Acq: 27 Oct 2022 19:43

Instrument :

MSVOA_V

ClientSampleId :

BHA76

Tgt Ion:164 Resp: 560

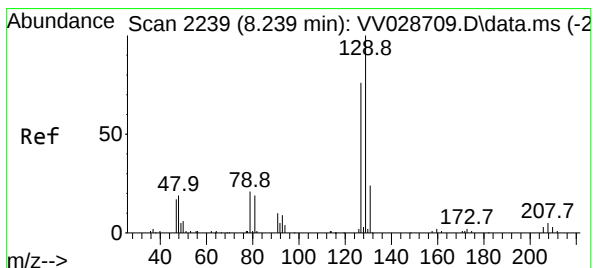
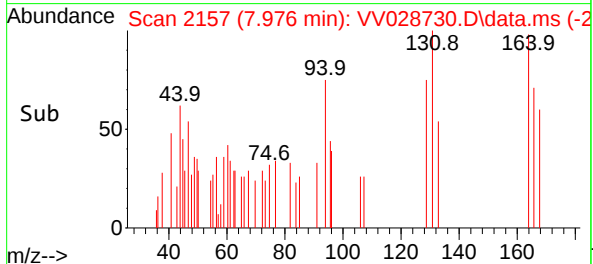
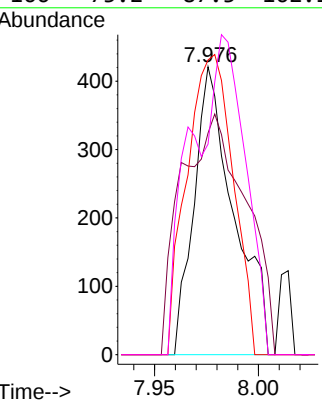
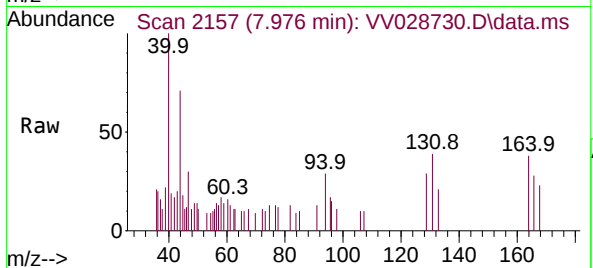
Ion Ratio Lower Upper

164 100

129 77.0 69.2 128.6

131 102.4 64.2 119.2

166 73.2 87.3 162.1#



#49

Dibromochloromethane

Concen: 0.098 ug/L

RT: 7.979 min Scan# 2158

Delta R.T. -0.261 min

Lab File: VV028730.D

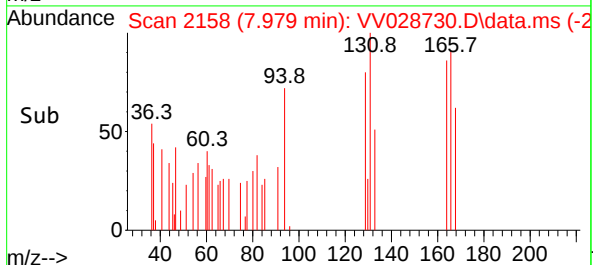
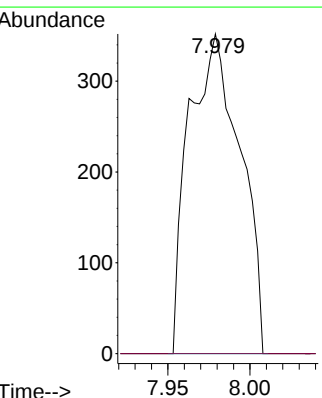
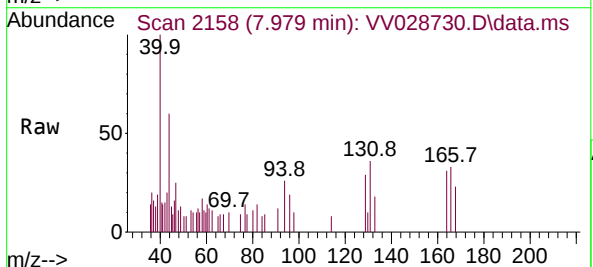
Acq: 27 Oct 2022 19:43

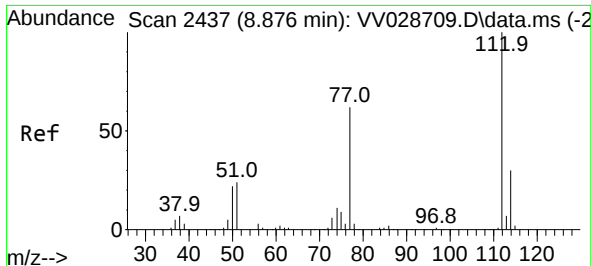
Tgt Ion:129 Resp: 762

Ion Ratio Lower Upper

129 100

127 0.0 51.6 95.8#

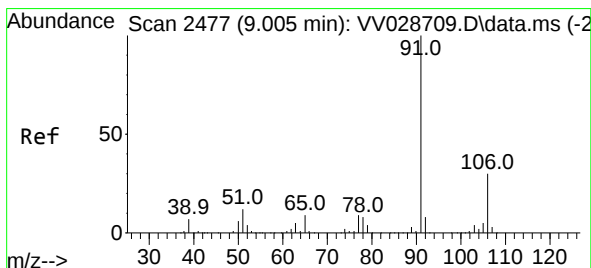
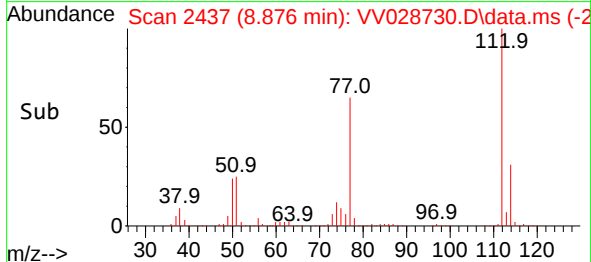
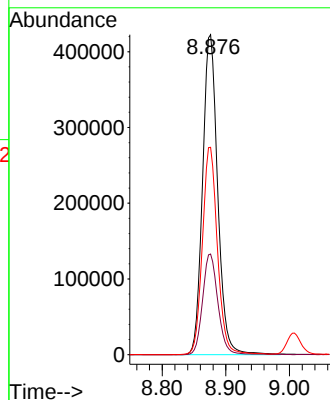
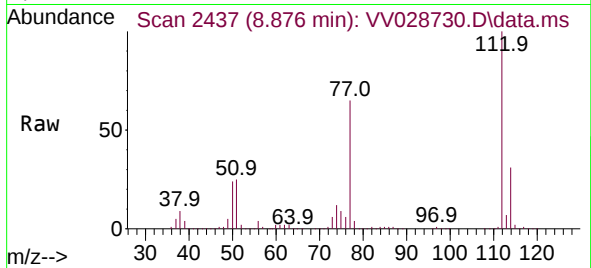




#51
Chlorobenzene
Concen: 24.612 ug/L
RT: 8.876 min Scan# 2437
Delta R.T. -0.000 min
Lab File: VV028730.D
Acq: 27 Oct 2022 19:43

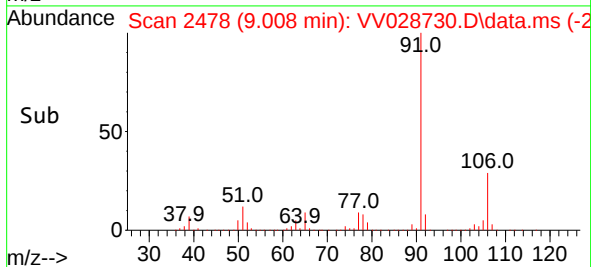
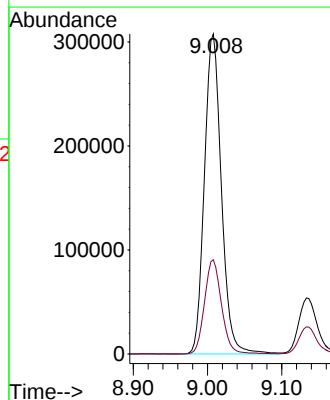
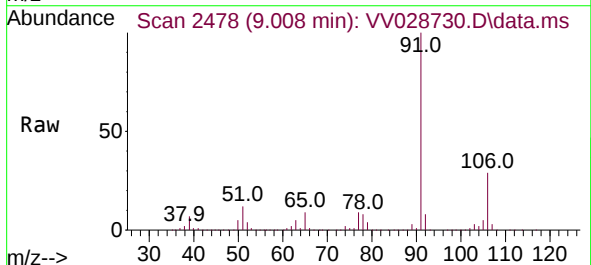
Instrument :
MSVOA_V
ClientSampleId :
BHA76

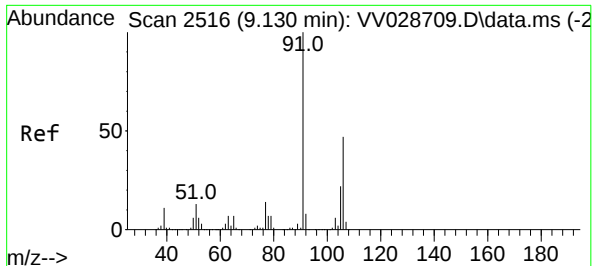
Tgt Ion:112 Resp: 697569
Ion Ratio Lower Upper
112 100
114 31.4 22.0 41.0
77 64.8 50.0 75.0



#52
Ethylbenzene
Concen: 9.755 ug/L
RT: 9.008 min Scan# 2478
Delta R.T. 0.003 min
Lab File: VV028730.D
Acq: 27 Oct 2022 19:43

Tgt Ion: 91 Resp: 487974
Ion Ratio Lower Upper
91 100
106 29.5 21.3 39.6

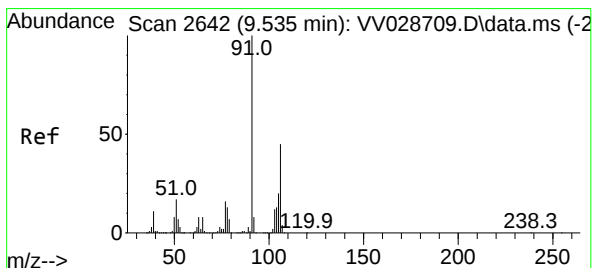
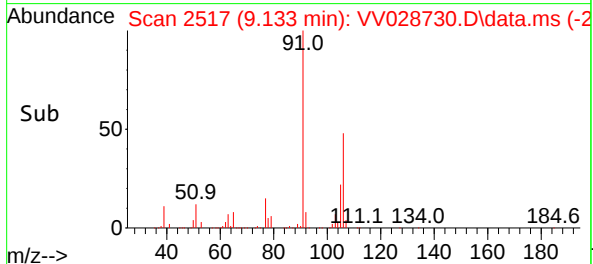
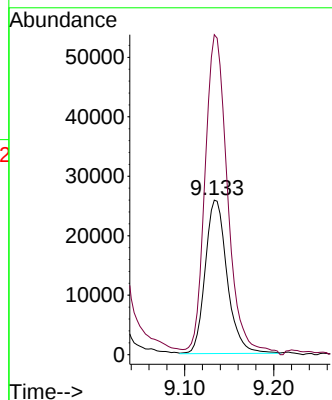
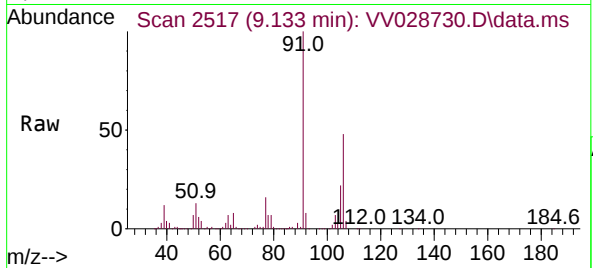




#53
m,p-Xylene
Concen: 2.444 ug/L
RT: 9.133 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VV028730.D
Acq: 27 Oct 2022 19:43

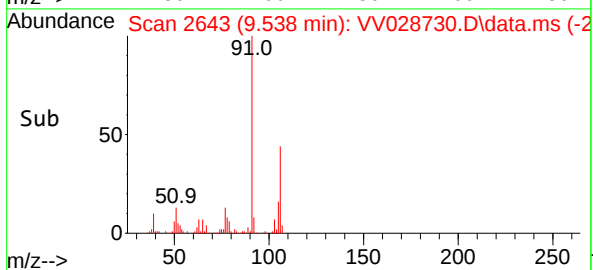
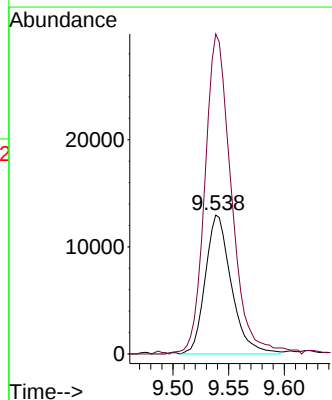
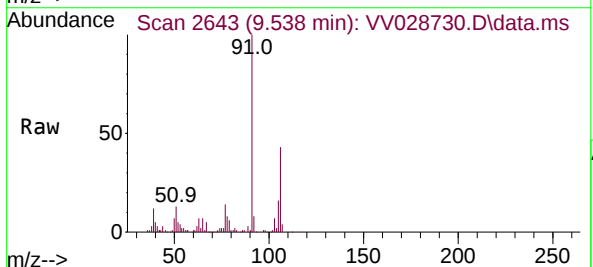
Instrument :
MSVOA_V
ClientSampleId :
BHA76

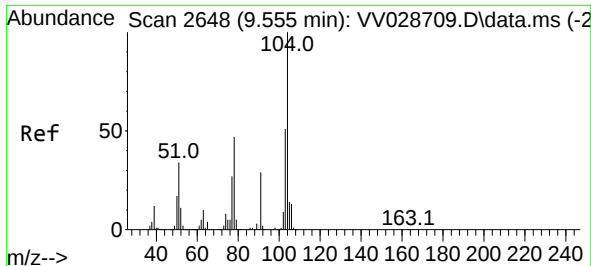
Tgt Ion:106 Resp: 44150
Ion Ratio Lower Upper
106 100
91 207.0 145.5 270.1



#54
o-Xylene
Concen: 1.160 ug/L
RT: 9.538 min Scan# 2643
Delta R.T. 0.003 min
Lab File: VV028730.D
Acq: 27 Oct 2022 19:43

Tgt Ion:106 Resp: 21083
Ion Ratio Lower Upper
106 100
91 230.3 159.0 295.4

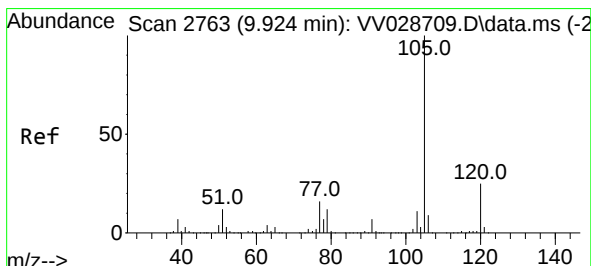
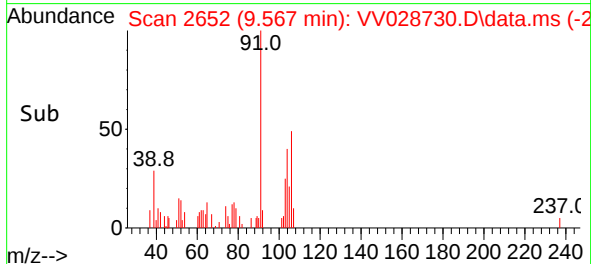
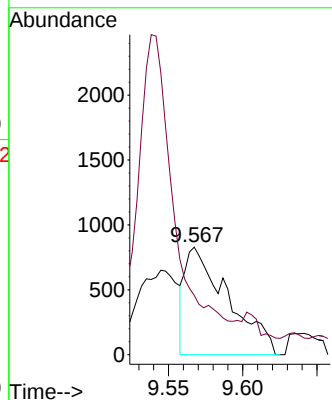
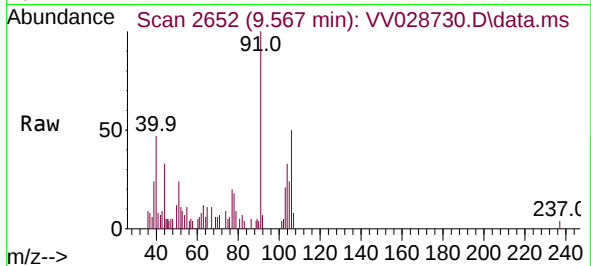




#55
Styrene
Concen: 0.054 ug/L
RT: 9.567 min Scan# 21
Delta R.T. 0.013 min
Lab File: VV028730.D
Acq: 27 Oct 2022 19:43

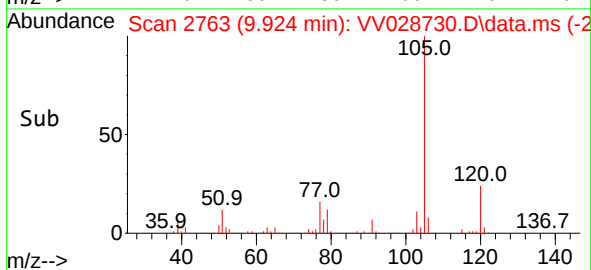
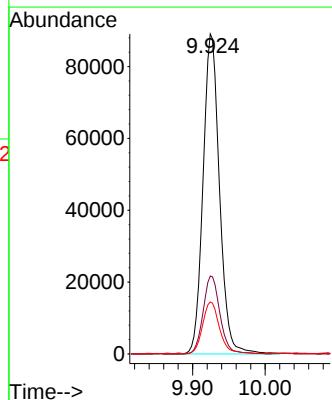
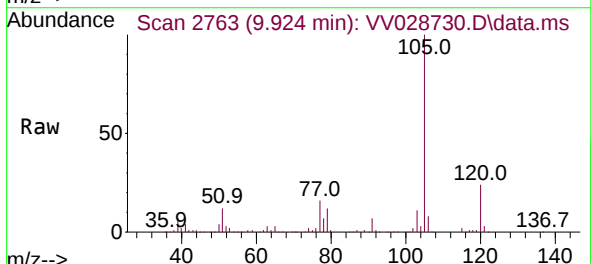
Instrument :
MSVOA_V
ClientSampleId :
BHA76

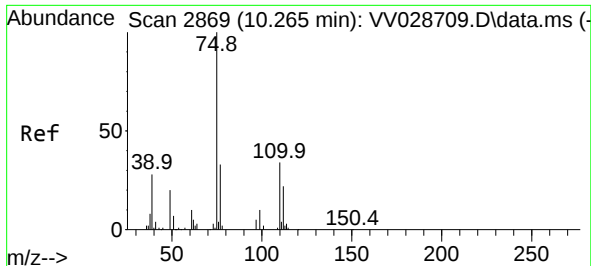
Tgt Ion:104 Resp: 1667
Ion Ratio Lower Upper
104 100
78 55.0 32.8 61.0



#60
Isopropylbenzene
Concen: 3.165 ug/L
RT: 9.924 min Scan# 2763
Delta R.T. -0.000 min
Lab File: VV028730.D
Acq: 27 Oct 2022 19:43

Tgt Ion:105 Resp: 140503
Ion Ratio Lower Upper
105 100
120 25.0 20.1 30.1
77 16.9 13.4 20.0

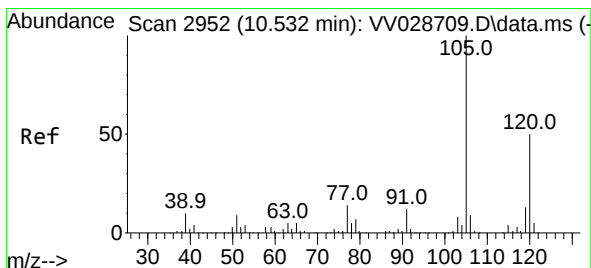
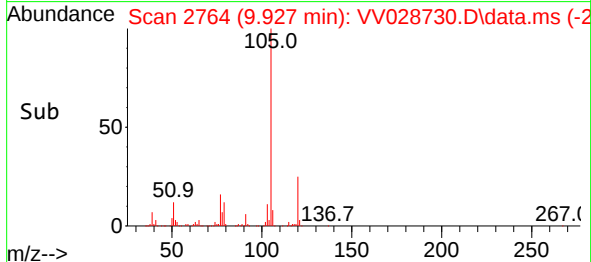
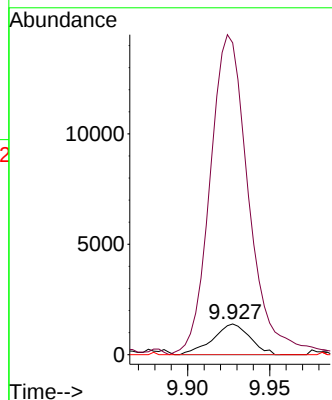
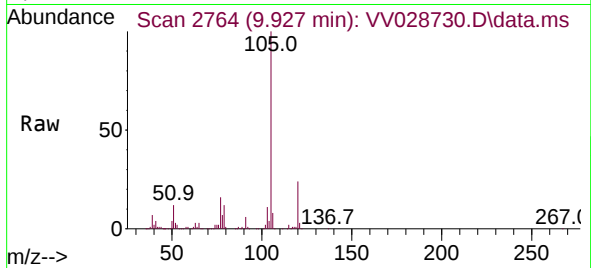




#61
 1,2,3-Trichloropropane
 Concen: 0.361 ug/L
 RT: 9.927 min Scan# 21
 Delta R.T. -0.338 min
 Lab File: VV028730.D
 Acq: 27 Oct 2022 19:43

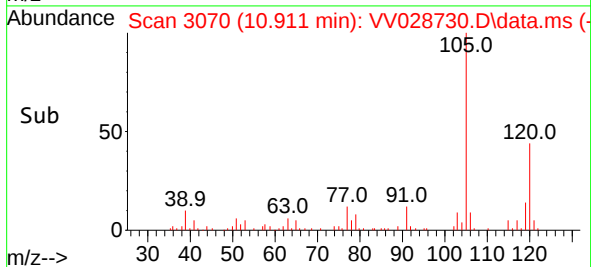
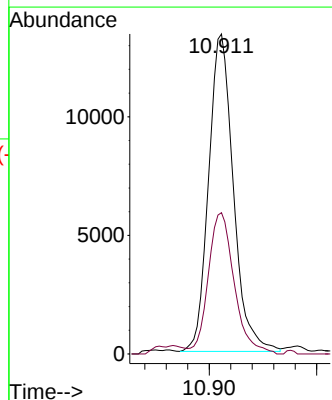
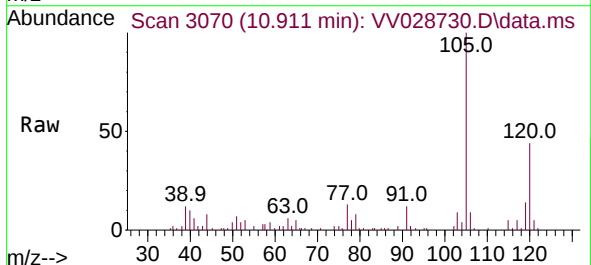
Instrument :
 MSVOA_V
 ClientSampleId :
 BHA76

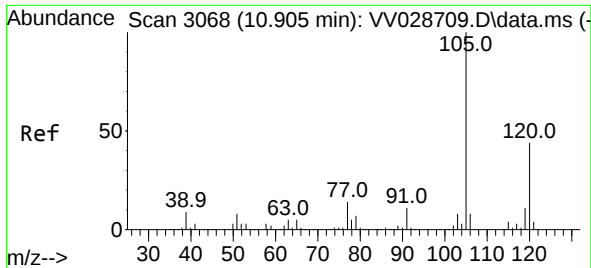
Tgt Ion: 75 Resp: 2188
 Ion Ratio Lower Upper
 75 100
 77 1086.7 25.2 37.8#
 110 2.1 27.9 41.9#



#62
 1,3,5-Trimethylbenzene
 Concen: 1.654 ug/L
 RT: 10.911 min Scan# 3070
 Delta R.T. 0.379 min
 Lab File: VV028730.D
 Acq: 27 Oct 2022 19:43

Tgt Ion: 105 Resp: 21413
 Ion Ratio Lower Upper
 105 100
 120 46.7 38.3 57.5

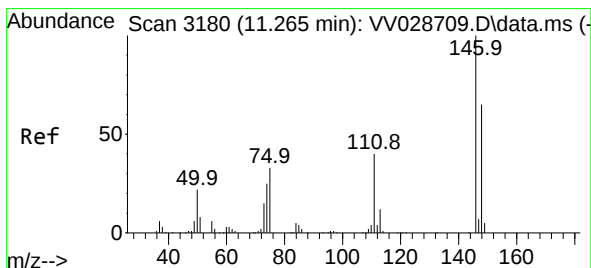
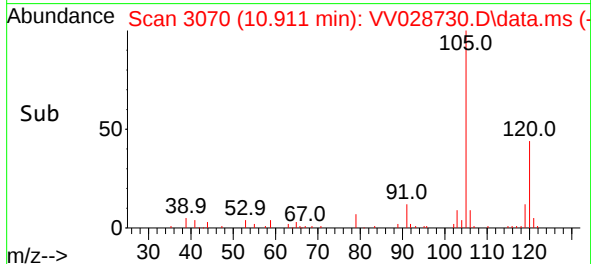
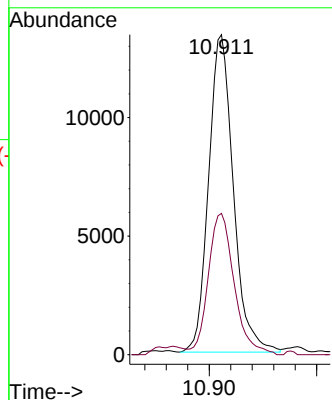
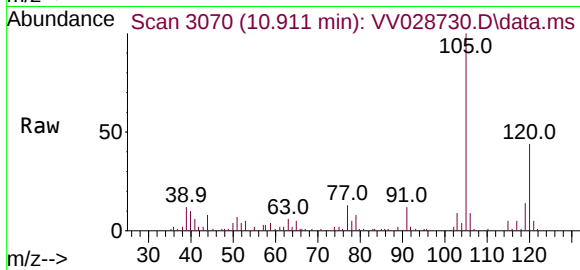




#63
1,2,4-Trimethylbenzene
Concen: 0.597 ug/L
RT: 10.911 min Scan# 3068
Delta R.T. 0.006 min
Lab File: VV028730.D
Acq: 27 Oct 2022 19:43

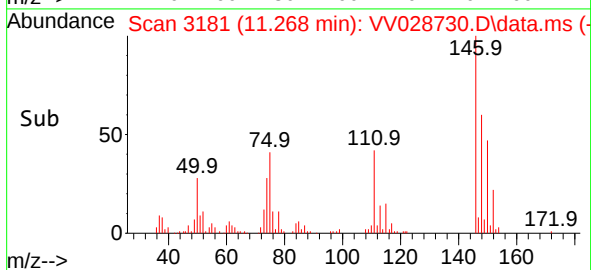
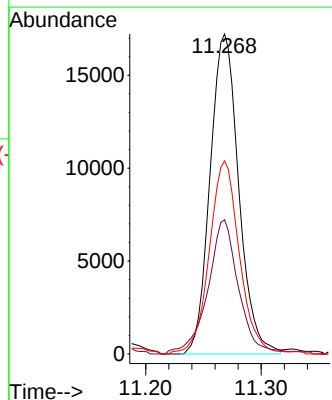
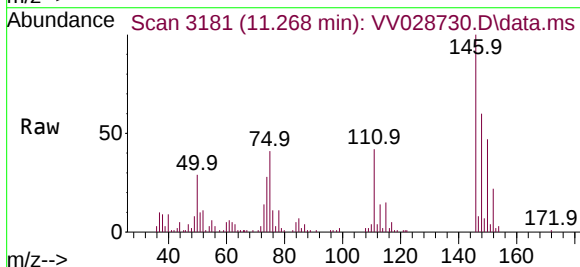
Instrument :
MSVOA_V
ClientSampleId :
BHA76

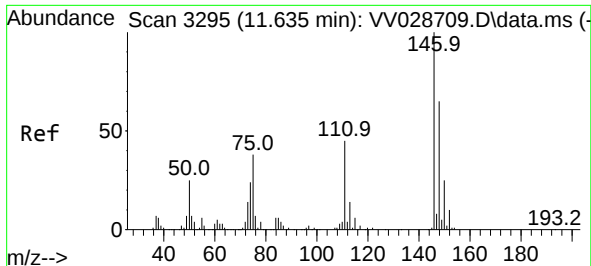
Tgt Ion:105 Resp: 21413
Ion Ratio Lower Upper
105 100
120 46.7 36.2 54.2



#65
1,4-Dichlorobenzene
Concen: 1.557 ug/L
RT: 11.268 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VV028730.D
Acq: 27 Oct 2022 19:43

Tgt Ion:146 Resp: 29696
Ion Ratio Lower Upper
146 100
111 41.9 28.6 53.2
148 60.4 44.3 82.3





#67

1,2-Dichlorobenzene

Concen: 0.932 ug/L

RT: 11.635 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV028730.D

Acq: 27 Oct 2022 19:43

Instrument :

MSVOA_V

ClientSampleId :

BHA76

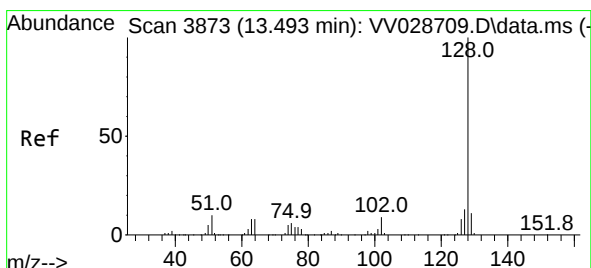
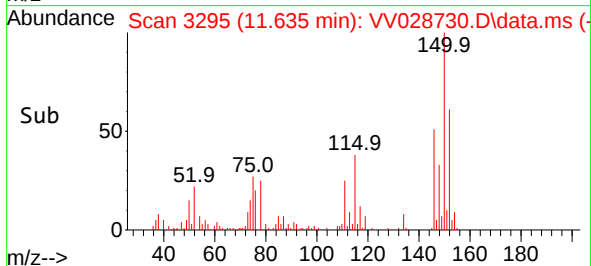
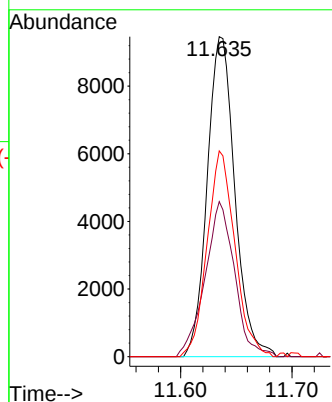
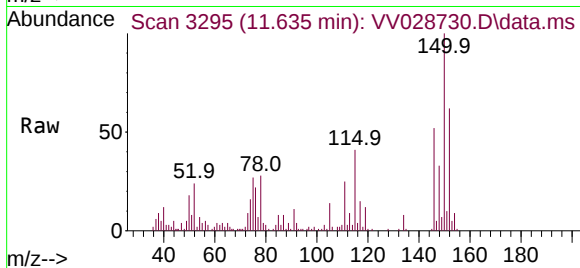
Tgt Ion:146 Resp: 16301

Ion Ratio Lower Upper

146 100

111 48.4 36.2 54.4

148 64.3 50.6 75.8



#71

Naphthalene

Concen: 0.130 ug/L

RT: 13.506 min Scan# 3877

Delta R.T. 0.013 min

Lab File: VV028730.D

Acq: 27 Oct 2022 19:43

Tgt Ion:128 Resp: 2467

Ion Ratio Lower Upper

128 100

129 13.7 8.9 13.3#

127 10.1 10.2 15.4#

