

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW102423\
 Data File : VW032597.D
 Acq On : 24 Oct 2023 18:06
 Operator : SY/MD
 Sample : 04992-07
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 25 05:55:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR092923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Oct 25 05:52:45 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.538	114	71102	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	74988	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.204	152	36851	5.000	ug/L	# 0.02
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	22175	3.835	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.600%
7) Chloroethane-d5	1.532	69	23581	5.024	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.400%
11) 1,1-Dichloroethene-d2	2.056	65	8524	3.495	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.000%
20) 2-Butanone-d5	3.818	46	96162	65.738	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	131.480%#
24) Chloroform-d	4.374	84	5485	0.538	ug/L	0.13
Spiked Amount	5.000	Range	70 - 125	Recovery	=	10.800%#
26) 1,2-Dichloroethane-d4	4.947	65	28671	5.934	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	118.600%
32) Benzene-d6	4.963	84	80898	3.666	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	73.400%
36) 1,2-Dichloropropane-d6	5.992	67	29417	4.024	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	80.400%
41) Toluene-d8	7.249	98	68284	3.384	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	67.600%#
43) trans-1,3-Dichloroprop...	7.558	79	14259	5.504	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	110.000%
46) 2-Hexanone-d5	8.030	63	94670	77.670	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	155.340%#
56) 1,1,2,2-Tetrachloroeth...	10.185	84	153589	30.037	ug/L	0.03
Spiked Amount	5.000	Range	65 - 120	Recovery	=	600.800%#
66) 1,2-Dichlorobenzene-d4	11.577	152	39607	5.792	ug/L	0.01
Spiked Amount	5.000	Range	80 - 120	Recovery	=	115.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.214	50	877	0.110	ug/L	94
5) Vinyl chloride	1.281	62	1259	0.165	ug/L #	80
8) Chloroethane	1.603	64	9270	2.021	ug/L #	53
13) Acetone	2.143	43	17269	15.317	ug/L	65
14) Carbon disulfide	2.243	76	2698	0.148	ug/L #	85
15) Methyl Acetate	2.297	43	504	0.199	ug/L #	53
22) cis-1,2-Dichloroethene	3.818	96	2784	0.433	ug/L	91
30) Cyclohexane	4.587	56	6505	0.581	ug/L	95
33) Benzene	5.011	78	92707	3.511	ug/L	100
34) Trichloroethene	5.841	95	923	0.128	ug/L	92
35) Methylcyclohexane	6.053	83	93780	8.408	ug/L	98
39) cis-1,3-Dichloropropene	6.924	75	971	0.097	ug/L #	31
40) 4-Methyl-2-pentanone	7.194	43	9682	2.167	ug/L #	57
42) Toluene	7.326	91	4557	0.162	ug/L	90
45) 1,1,2-Trichloroethane	7.718	97	56740	11.392	ug/L #	19
47) Tetrachloroethene	7.915	164	701	0.128	ug/L	95
48) 2-Hexanone	8.017	43	47896	15.193	ug/L #	34
50) 1,2-Dibromoethane	8.284	107	799	0.170	ug/L #	1
52) Ethylbenzene	8.953	91	10535984	336.180	ug/L	96

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

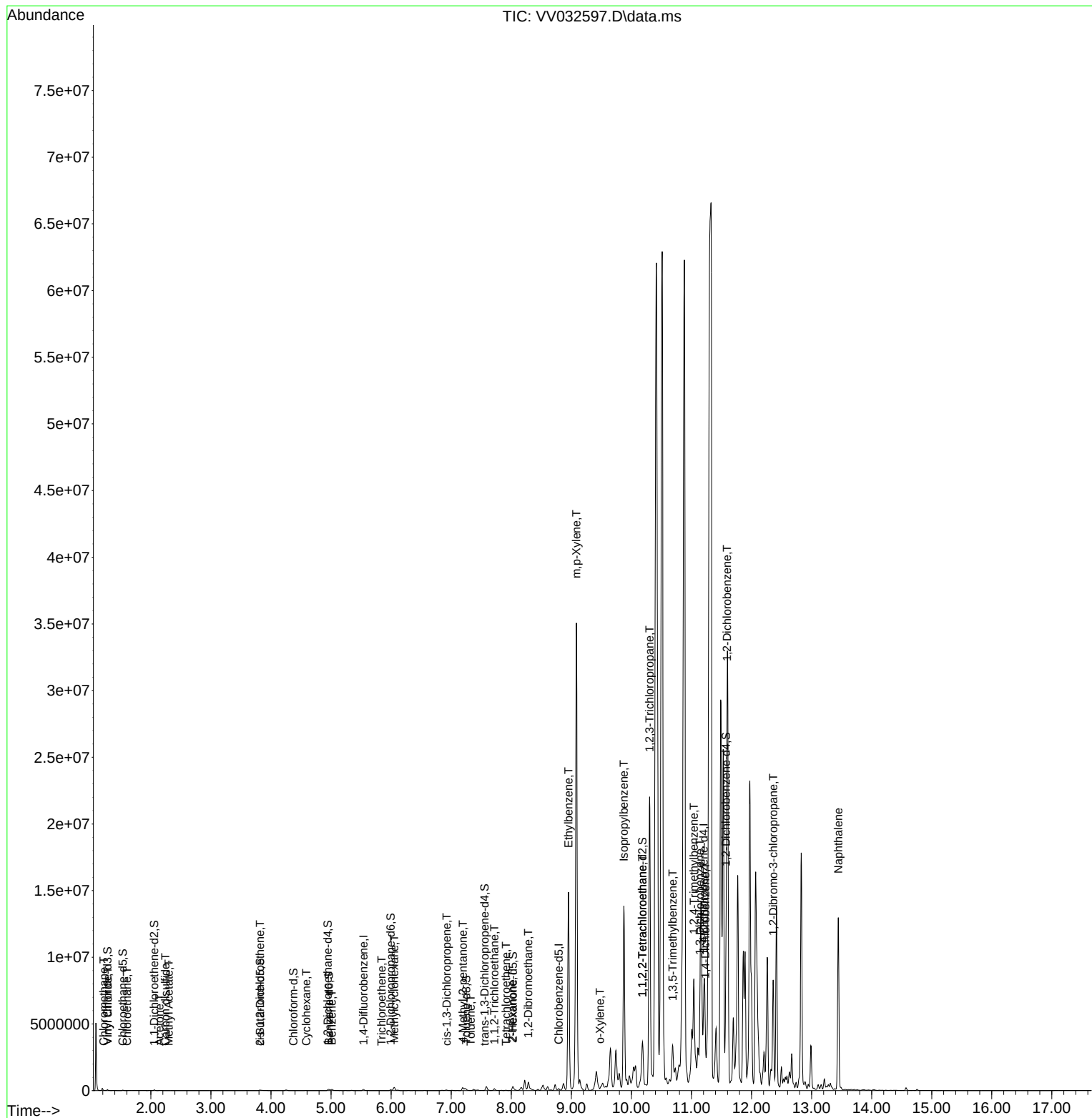
53) m,p-Xylene	9.085	106	9867020	848.897	ug/L #	58
54) o-Xylene	9.477	106	1029	0.092	ug/L	69
57) 1,1,2,2-Tetrachloroethane	10.185	83	238321	43.486	ug/L #	42
60) Isopropylbenzene	9.876	105	8715263	304.307	ug/L	98
61) 1,2,3-Trichloropropane	10.303	75	132138	33.689	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.686	105	922109	39.504	ug/L #	1
63) 1,2,4-Trimethylbenzene	11.040	105	4457520	191.814	ug/L #	66
64) 1,3-Dichlorobenzene	11.139	146	1891	0.138	ug/L #	1
65) 1,4-Dichlorobenzene	11.230	146	8172	0.595	ug/L #	1
67) 1,2-Dichlorobenzene	11.593	146	18987	1.522	ug/L #	1
68) 1,2-Dibromo-3-chloropr...	12.361	75	35970	44.885	ug/L #	1
71) Naphthalene	13.445	128	9116657	603.852	ug/L	98

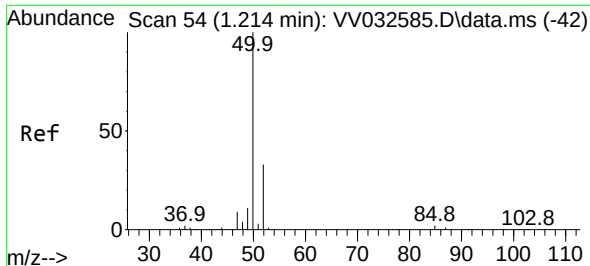
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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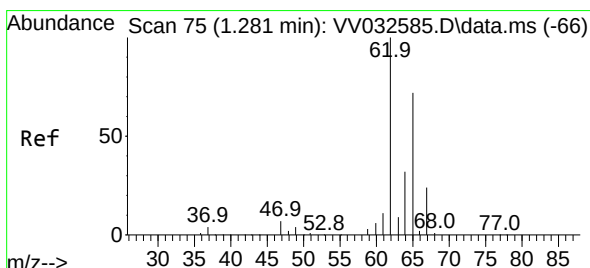
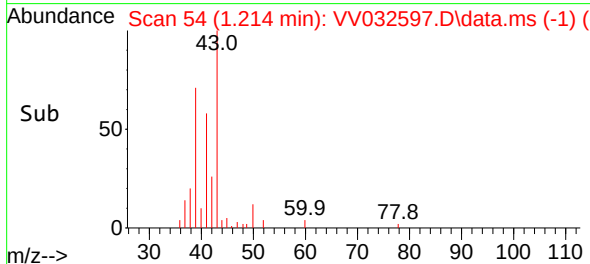
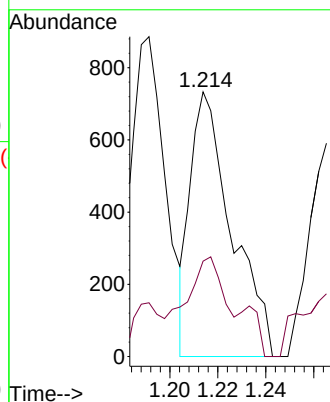
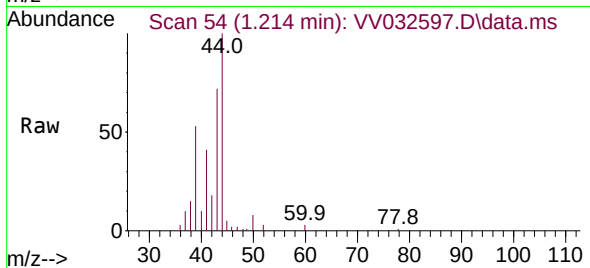




#3
Chloromethane
Concen: 0.110 ug/L
RT: 1.214 min Scan# 54
Delta R.T. -0.000 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

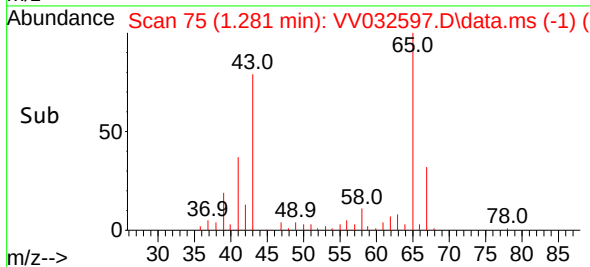
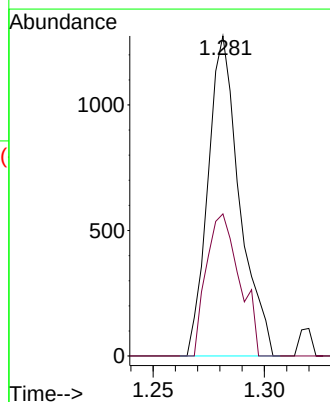
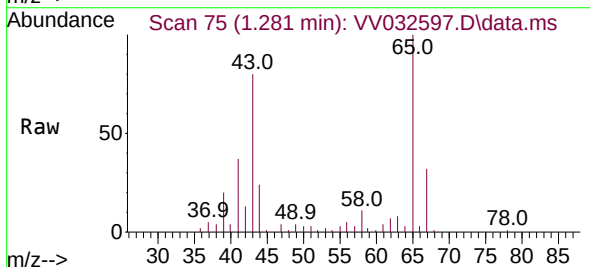
Instrument :
MSVOA_V
ClientSampleId :

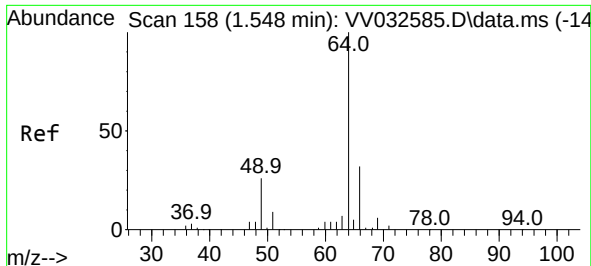
Tgt Ion: 50 Resp: 877
Ion Ratio Lower Upper
50 100
52 36.0 23.0 42.6



#5
Vinyl chloride
Concen: 0.165 ug/L
RT: 1.281 min Scan# 75
Delta R.T. -0.000 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

Tgt Ion: 62 Resp: 1259
Ion Ratio Lower Upper
62 100
64 44.4 23.1 42.9#

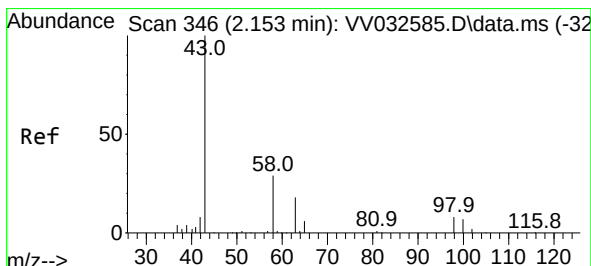
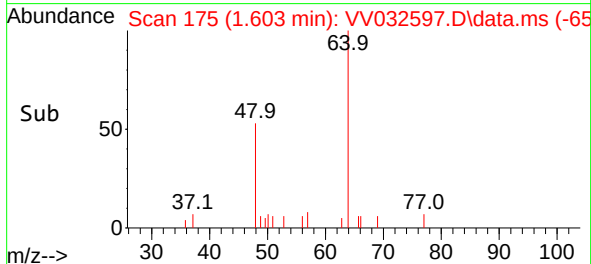
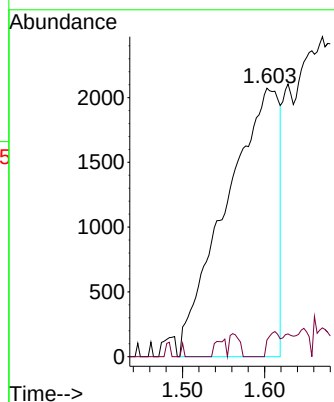
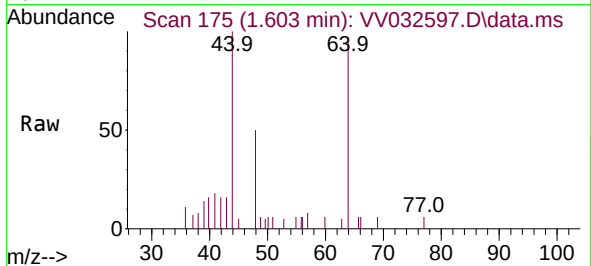




#8
Chloroethane
Concen: 2.021 ug/L
RT: 1.603 min Scan# 11
Delta R.T. 0.055 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

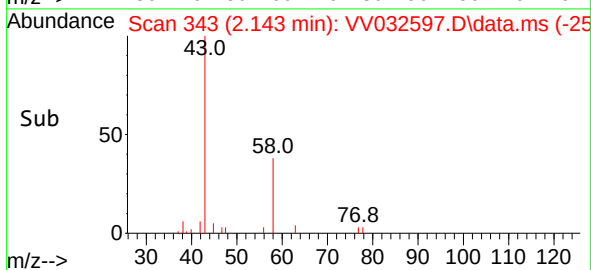
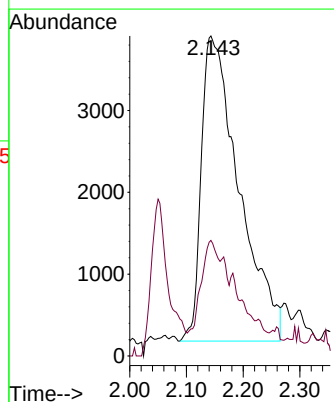
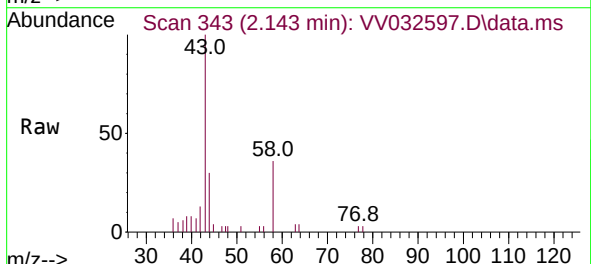
Instrument :
MSVOA_V
ClientSampleId :

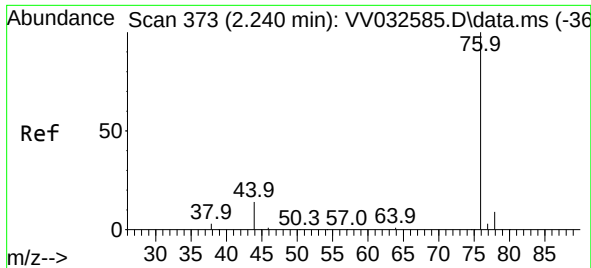
Tgt Ion: 64 Resp: 9270
Ion Ratio Lower Upper
64 100
66 6.2 22.6 42.0#



#13
Acetone
Concen: 15.317 ug/L
RT: 2.143 min Scan# 343
Delta R.T. -0.010 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

Tgt Ion: 43 Resp: 17269
Ion Ratio Lower Upper
43 100
58 13.4 0.0 66.0

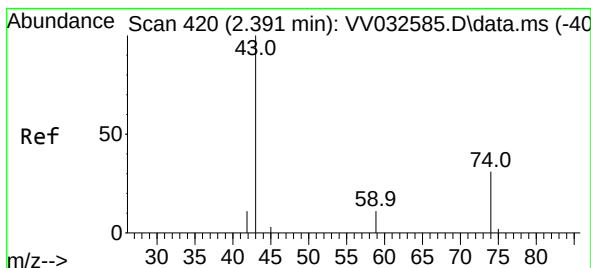
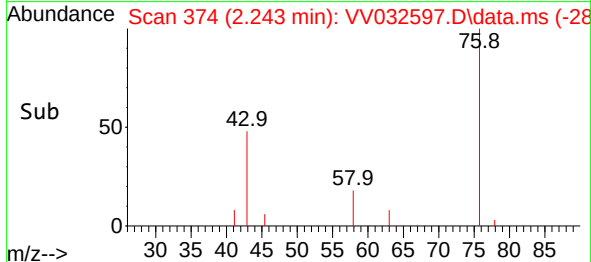
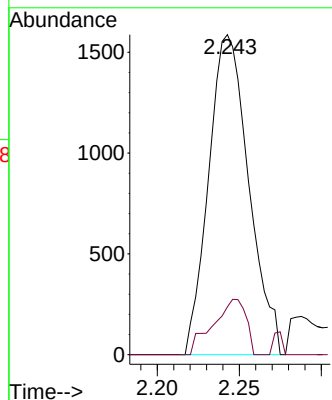
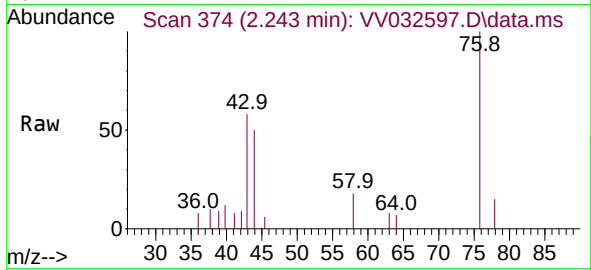




#14
Carbon disulfide
Concen: 0.148 ug/L
RT: 2.243 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

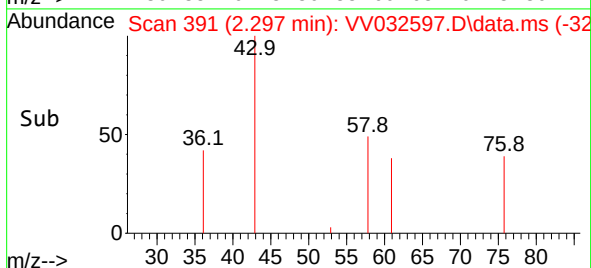
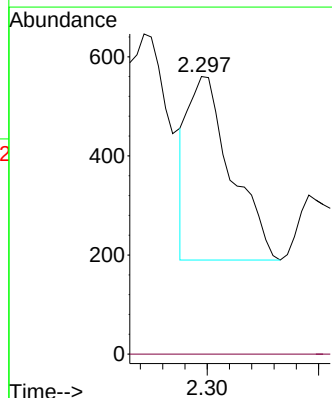
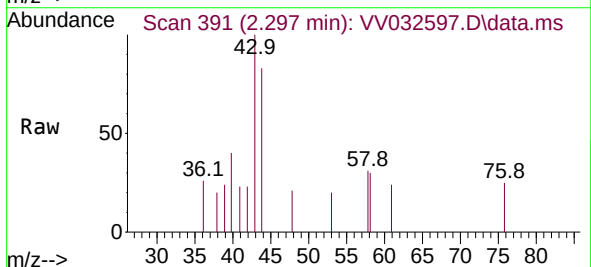
Instrument :
MSVOA_V
ClientSampleId :

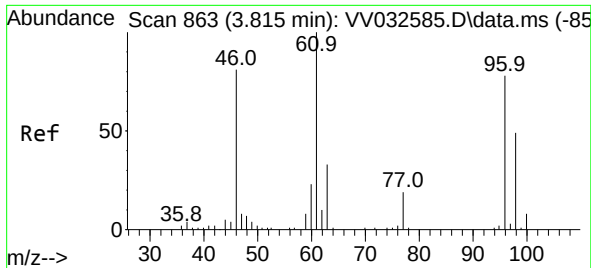
Tgt Ion: 76 Resp: 2698
Ion Ratio Lower Upper
76 100
78 14.9 7.4 11.2#



#15
Methyl Acetate
Concen: 0.199 ug/L
RT: 2.297 min Scan# 391
Delta R.T. -0.093 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

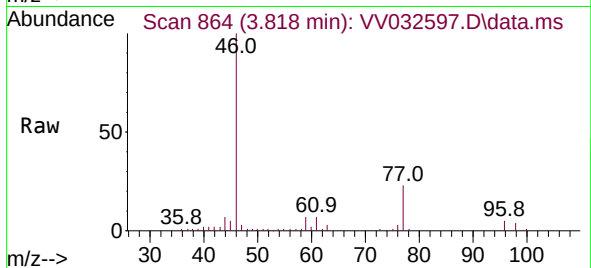
Tgt Ion: 43 Resp: 504
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#





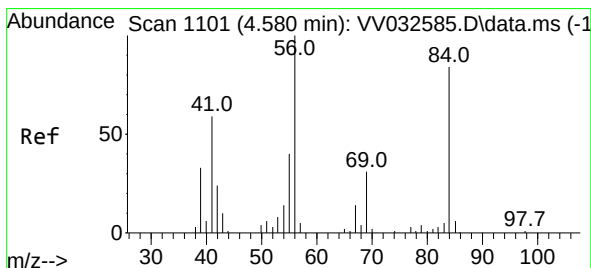
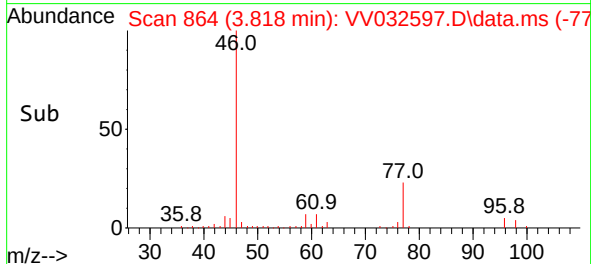
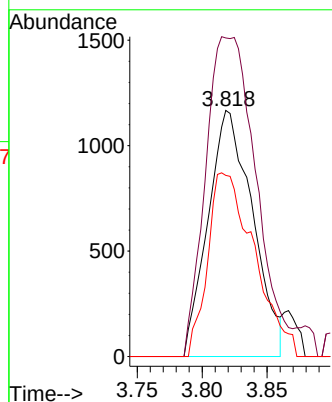
#22
 cis-1,2-Dichloroethene
 Concen: 0.433 ug/L
 RT: 3.818 min Scan# 863
 Delta R.T. 0.003 min
 Lab File: VV032597.D
 Acq: 24 Oct 2023 18:06

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion: 96 Resp: 2784

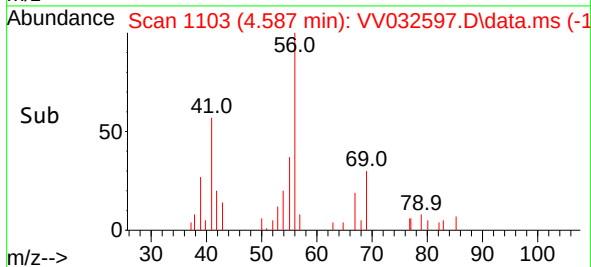
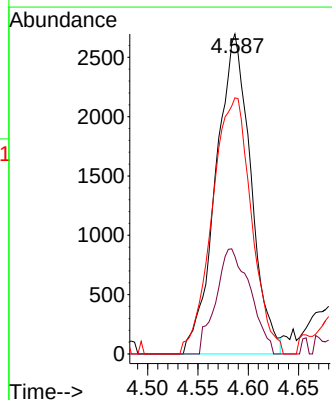
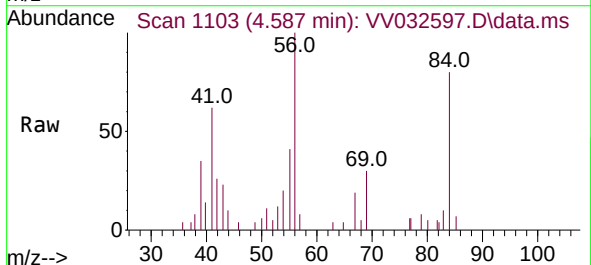
Ion	Ratio	Lower	Upper
96	100		
61	129.5	85.8	159.4
98	73.6	44.0	81.6

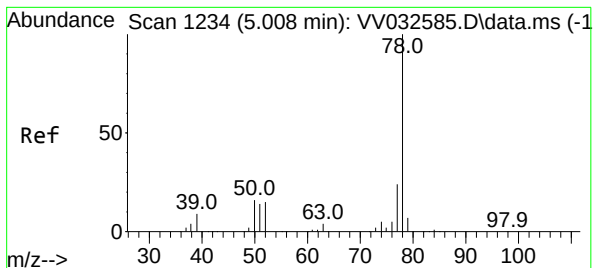


#30
 Cyclohexane
 Concen: 0.581 ug/L
 RT: 4.587 min Scan# 1103
 Delta R.T. 0.006 min
 Lab File: VV032597.D
 Acq: 24 Oct 2023 18:06

Tgt Ion: 56 Resp: 6505

Ion	Ratio	Lower	Upper
56	100		
69	32.3	24.2	36.2
84	89.8	68.1	102.1





#33

Benzene

Concen: 3.511 ug/L

RT: 5.011 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV032597.D

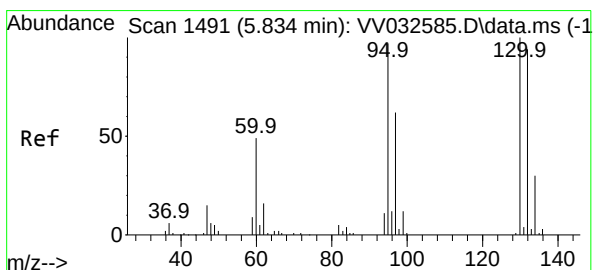
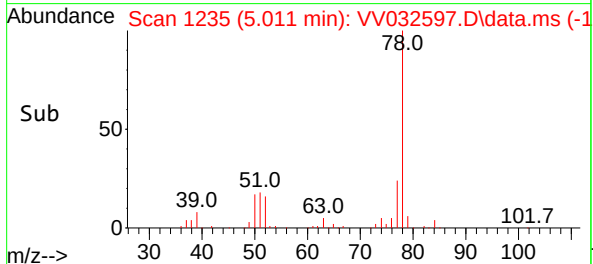
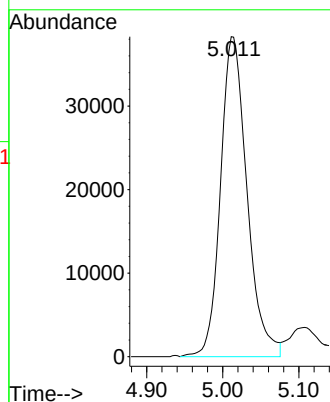
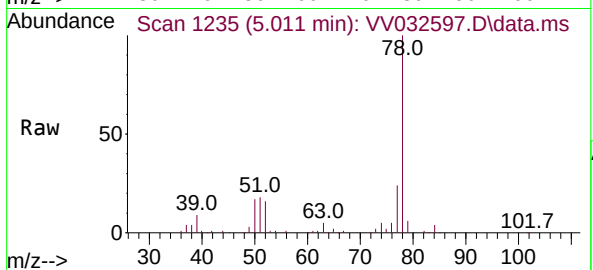
Acq: 24 Oct 2023 18:06

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 78 Resp: 92707



#34

Trichloroethene

Concen: 0.128 ug/L

RT: 5.841 min Scan# 1493

Delta R.T. 0.006 min

Lab File: VV032597.D

Acq: 24 Oct 2023 18:06

Tgt Ion: 95 Resp: 923

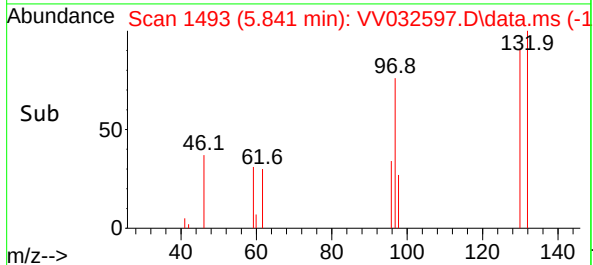
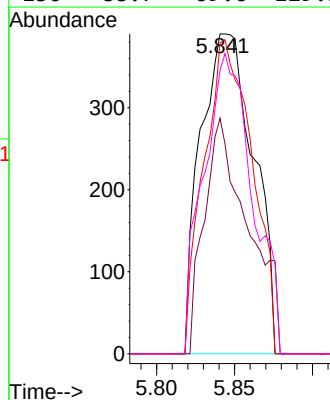
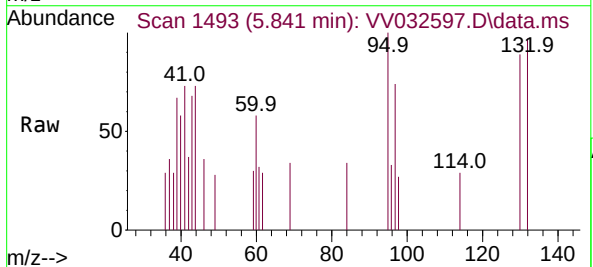
Ion Ratio Lower Upper

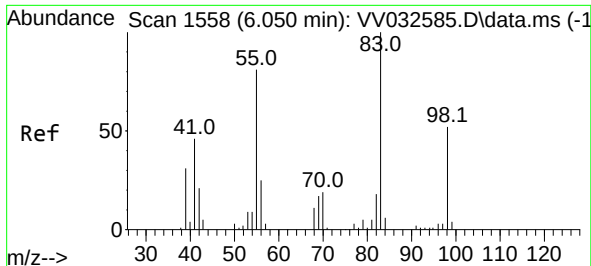
95 100

97 73.6 45.7 84.9

132 97.2 70.3 130.5

130 88.7 69.6 129.2

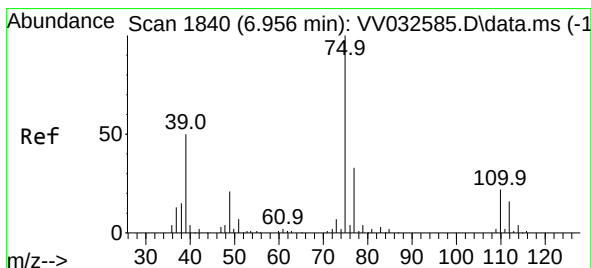
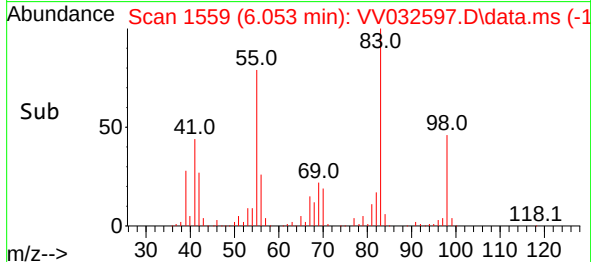
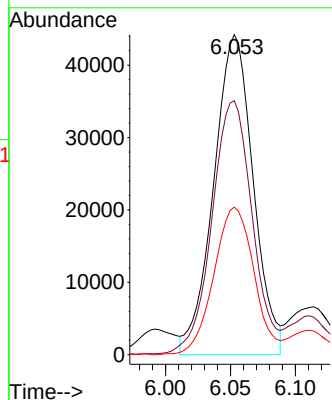
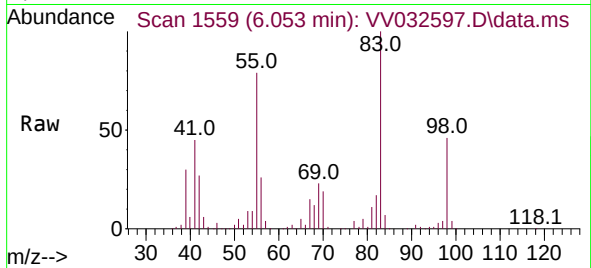




#35
Methylcyclohexane
Concen: 8.408 ug/L
RT: 6.053 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

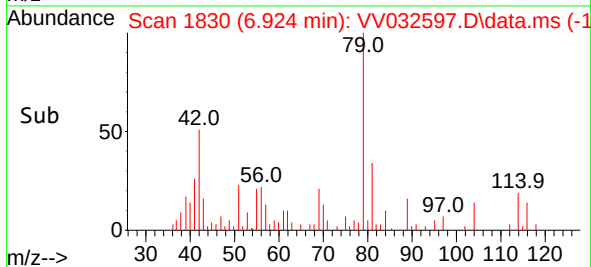
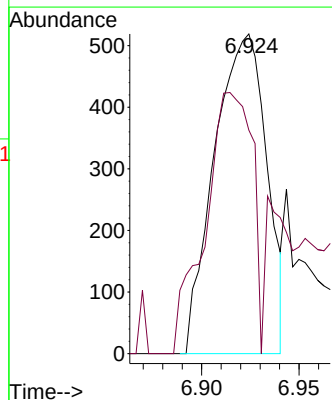
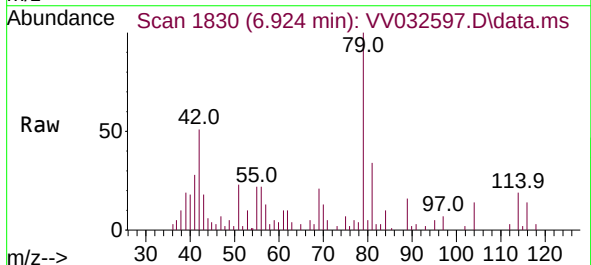
Instrument :
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ClientSampleId :

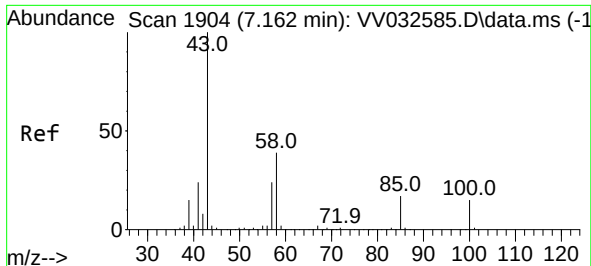
Tgt Ion: 83 Resp: 93780
Ion Ratio Lower Upper
83 100
55 81.1 64.2 96.2
98 46.7 39.6 59.4



#39
cis-1,3-Dichloropropene
Concen: 0.097 ug/L
RT: 6.924 min Scan# 1830
Delta R.T. -0.032 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

Tgt Ion: 75 Resp: 971
Ion Ratio Lower Upper
75 100
77 69.9 22.2 41.2#





#40

4-Methyl-2-pentanone

Concen: 2.167 ug/L

RT: 7.194 min Scan# 1914

Delta R.T. 0.032 min

Lab File: VV032597.D

Acq: 24 Oct 2023 18:06

Instrument :

MSVOA_V

ClientSampleId :

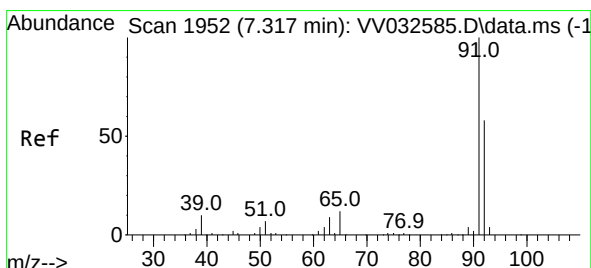
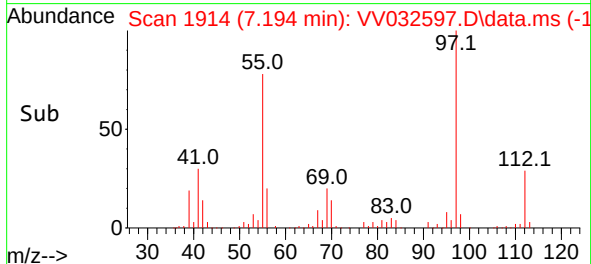
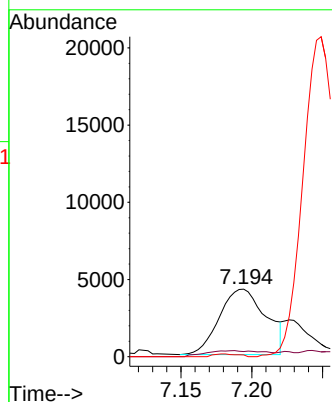
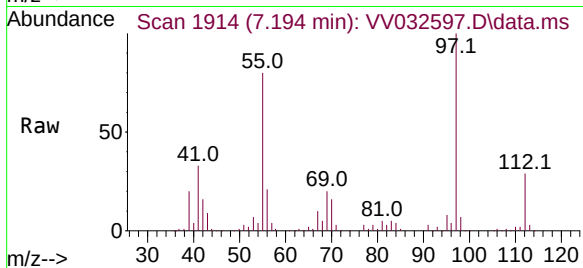
Tgt Ion: 43 Resp: 9682

Ion Ratio Lower Upper

43 100

58 11.7 31.9 47.9#

100 0.0 11.3 16.9#



#42

Toluene

Concen: 0.162 ug/L

RT: 7.326 min Scan# 1955

Delta R.T. 0.010 min

Lab File: VV032597.D

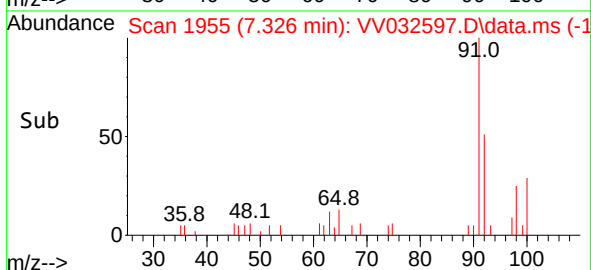
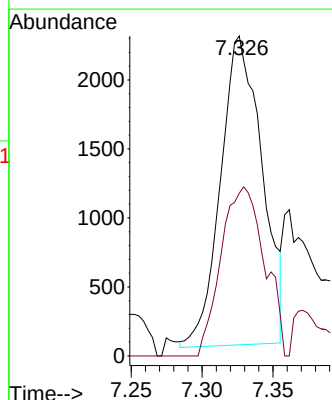
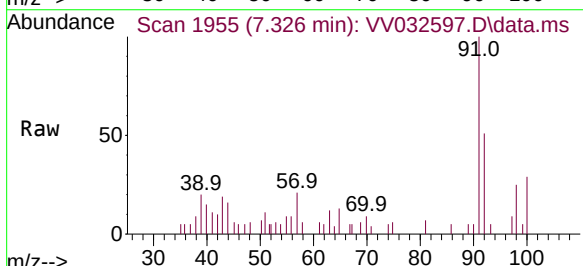
Acq: 24 Oct 2023 18:06

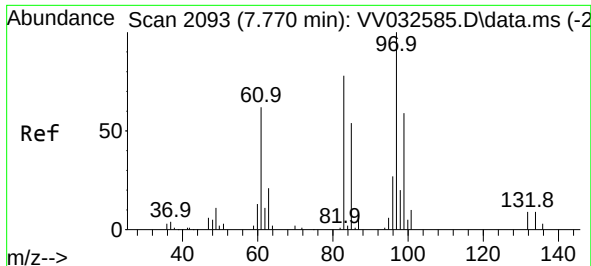
Tgt Ion: 91 Resp: 4557

Ion Ratio Lower Upper

91 100

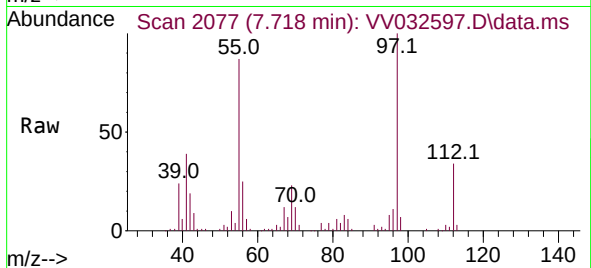
92 50.8 40.8 75.8



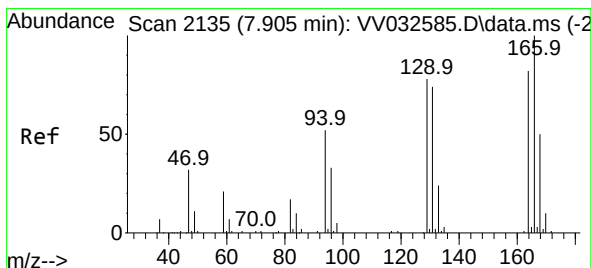
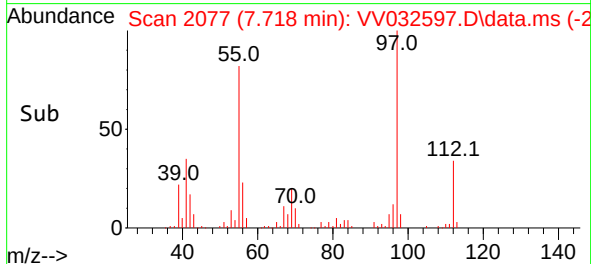
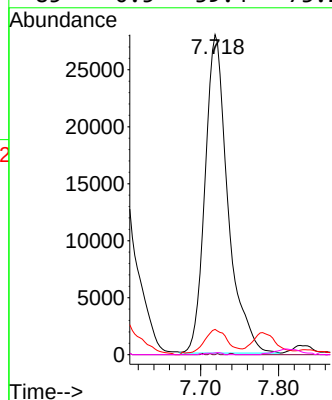


#45
1,1,2-Trichloroethane
Concen: 11.392 ug/L
RT: 7.718 min Scan# 2093
Delta R.T. -0.052 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

Instrument :
MSVOA_V
ClientSampleId :

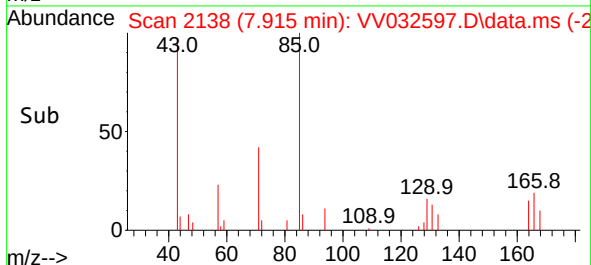
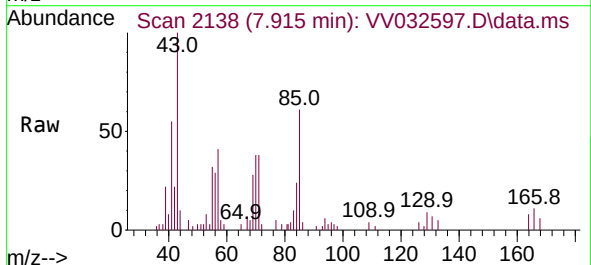
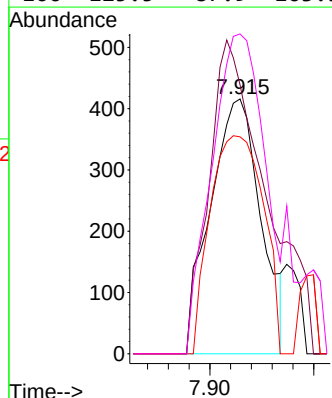


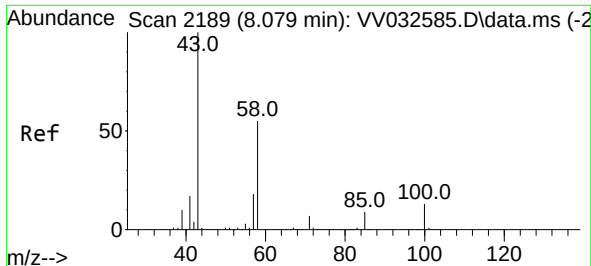
Tgt Ion: 97	Resp: 56740
Ion Ratio	Lower Upper
97 100	
99 0.0	42.8 79.4#
83 7.9	60.9 113.1#
85 0.5	39.4 73.2#



#47
Tetrachloroethene
Concen: 0.128 ug/L
RT: 7.915 min Scan# 2138
Delta R.T. 0.010 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

Tgt	Ion:164	Resp:	701
Ion	Ratio	Lower	Upper
164	100		
129	105.5	66.4	123.4
131	85.1	63.7	118.3
166	125.5	87.9	163.3

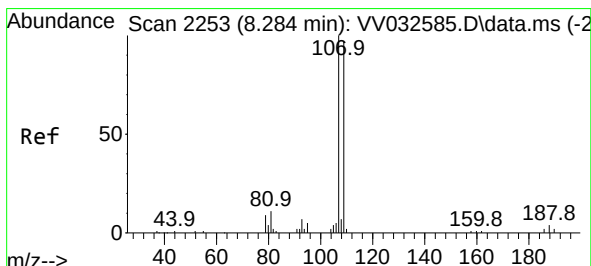
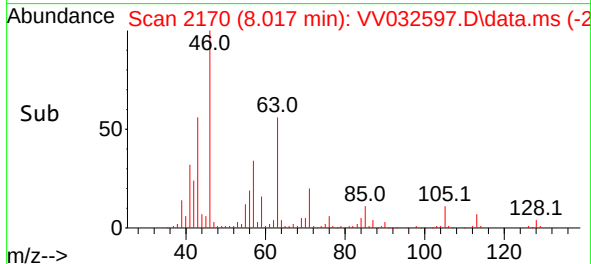
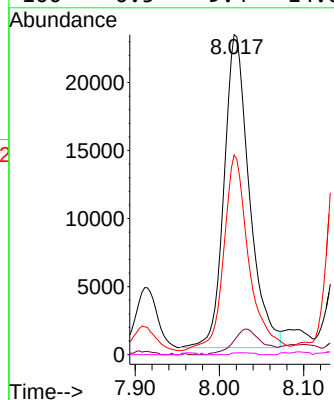
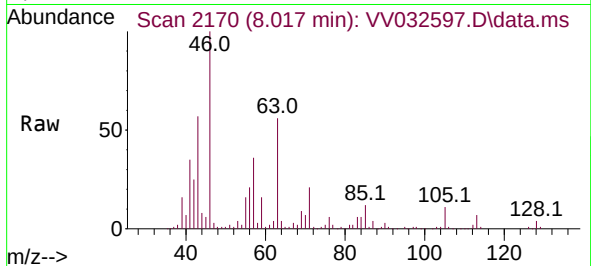




#48
2-Hexanone
Concen: 15.193 ug/L
RT: 8.017 min Scan# 2189
Delta R.T. -0.061 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

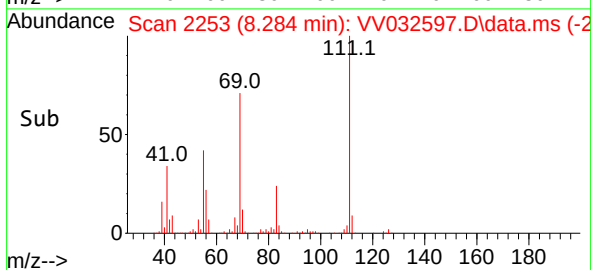
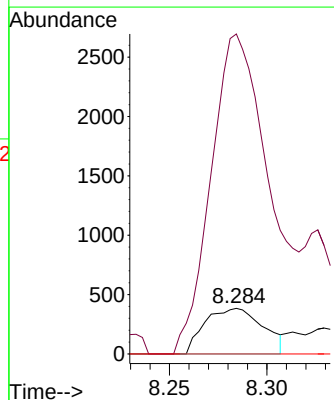
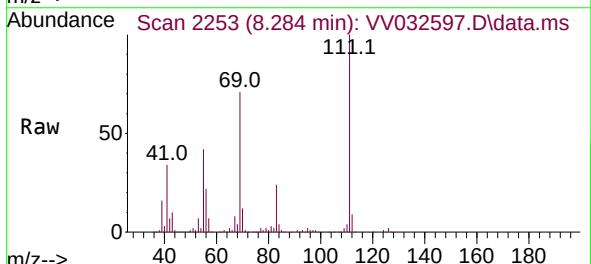
Instrument :
MSVOA_V
ClientSampleId :

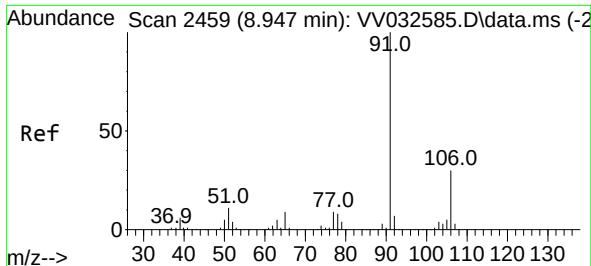
Tgt Ion: 43	Resp: 47896
Ion Ratio	Lower Upper
43 100	
58 9.3	43.6 65.4#
57 62.0	14.6 22.0#
100 0.5	9.4 14.0#



#50
1,2-Dibromoethane
Concen: 0.170 ug/L
RT: 8.284 min Scan# 2253
Delta R.T. -0.000 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

Tgt Ion:107	Resp:	799	
Ion	Ratio	Lower	Upper
107	100		
109	701.8	68.4	127.0#
188	0.0	3.2	4.8#

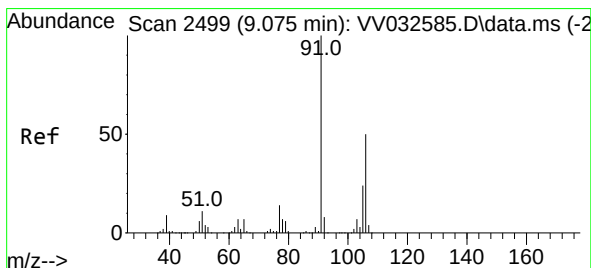
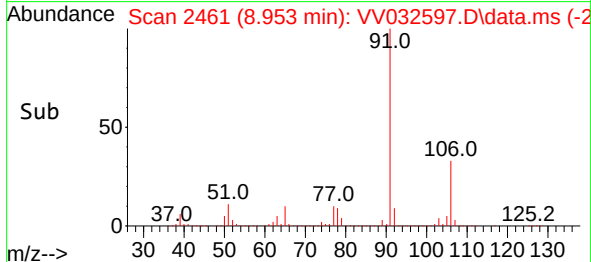
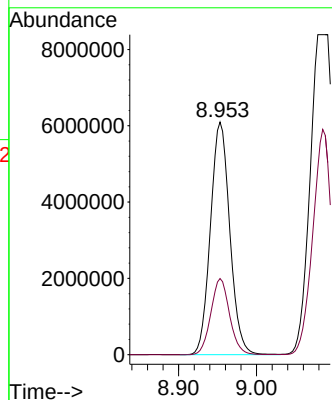
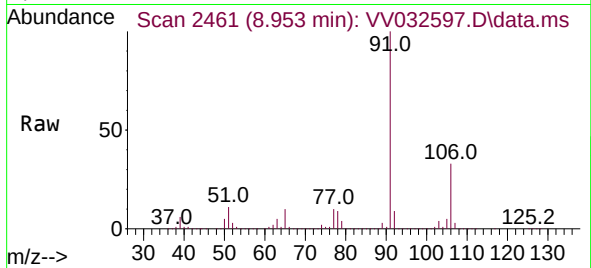




#52
Ethylbenzene
Concen: 336.180 ug/L
RT: 8.953 min Scan# 2459
Delta R.T. 0.006 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

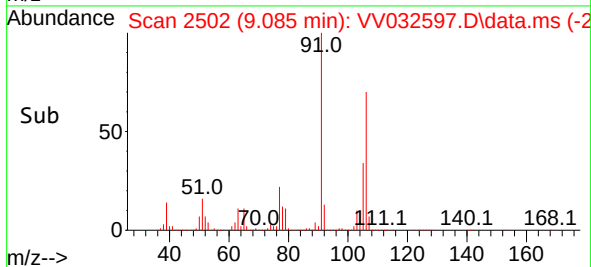
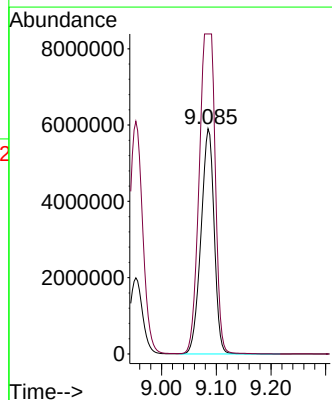
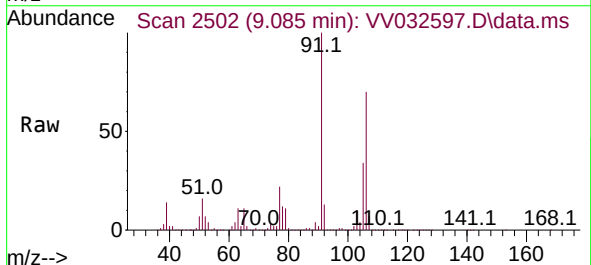
Instrument :
MSVOA_V
ClientSampleId :

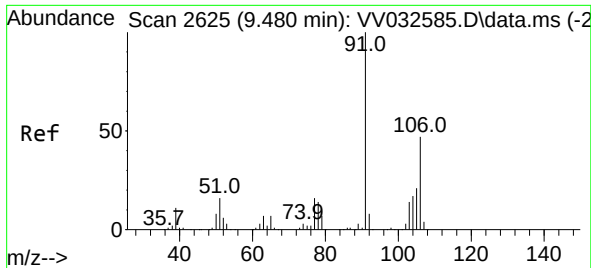
Tgt Ion: 91 Resp:10535984
Ion Ratio Lower Upper
91 100
106 32.7 21.3 39.5



#53
m,p-Xylene
Concen: 848.897 ug/L
RT: 9.085 min Scan# 2502
Delta R.T. 0.010 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

Tgt Ion:106 Resp: 9867020
Ion Ratio Lower Upper
106 100
91 142.1 144.5 268.3#

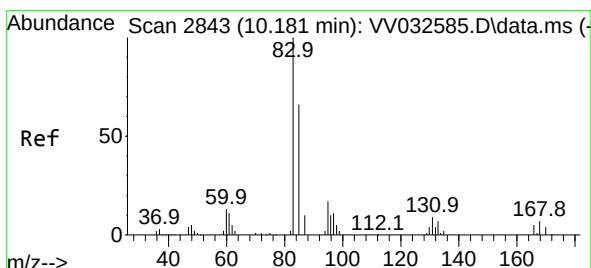
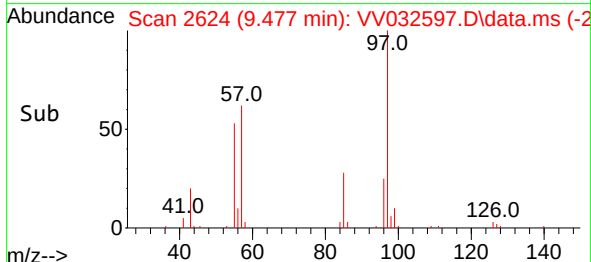
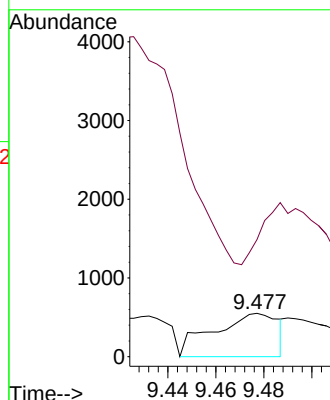
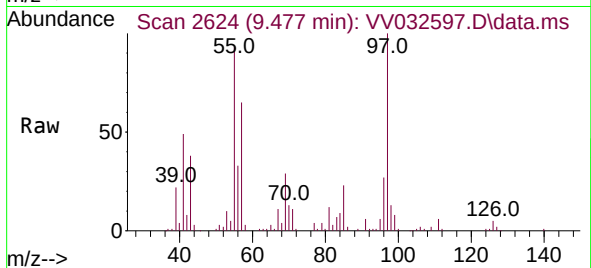




#54
o-Xylene
Concen: 0.092 ug/L
RT: 9.477 min Scan# 210
Delta R.T. -0.003 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

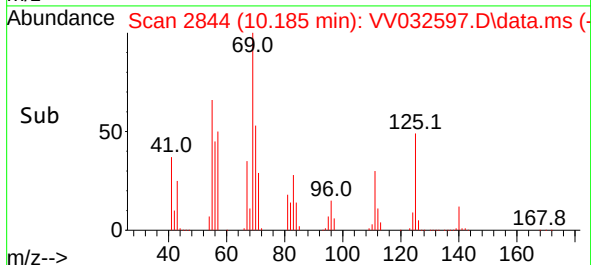
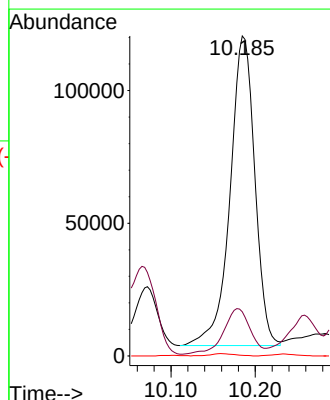
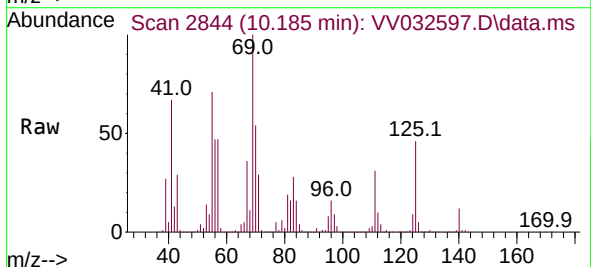
Instrument :
MSVOA_V
ClientSampleId :

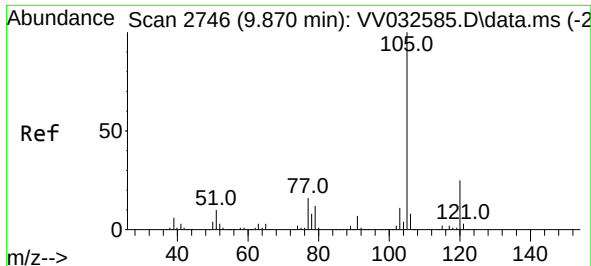
Tgt Ion:106 Resp: 1029
Ion Ratio Lower Upper
106 100
91 270.4 154.8 287.4



#57
1,1,2,2-Tetrachloroethane
Concen: 43.486 ug/L
RT: 10.185 min Scan# 2844
Delta R.T. 0.003 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

Tgt Ion: 83 Resp: 238321
Ion Ratio Lower Upper
83 100
85 13.8 43.6 81.0#
131 0.2 7.0 10.6#

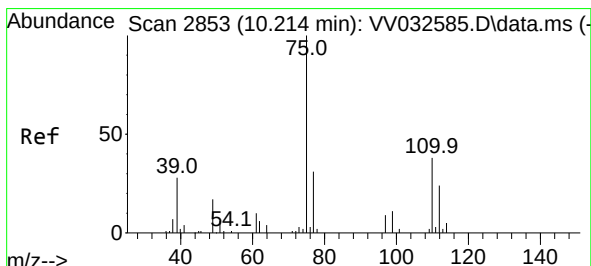
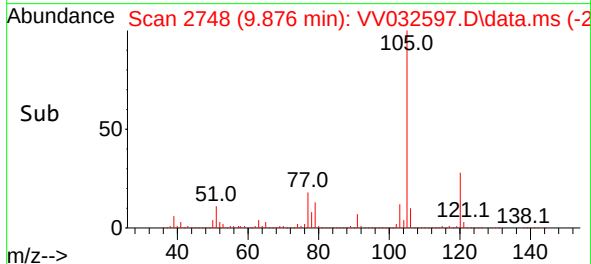
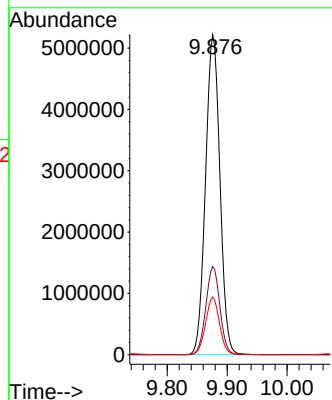
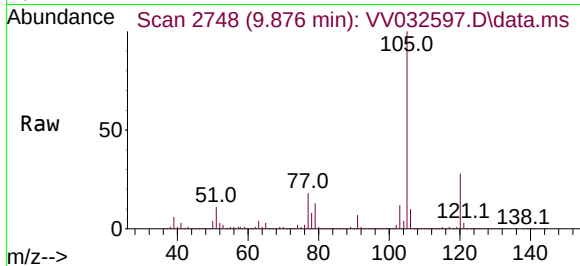




#60
Isopropylbenzene
Concen: 304.307 ug/L
RT: 9.876 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

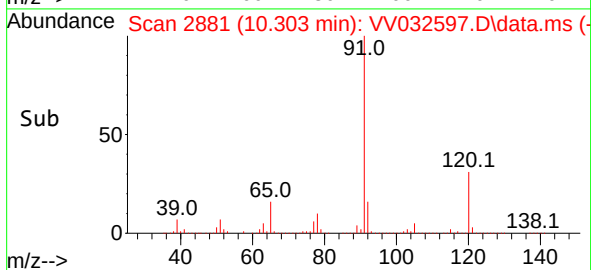
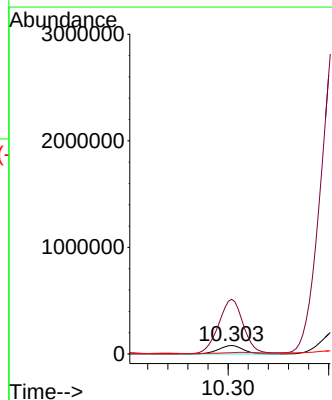
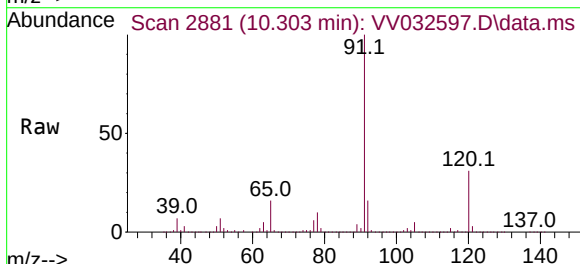
Instrument :
MSVOA_V
ClientSampleId :

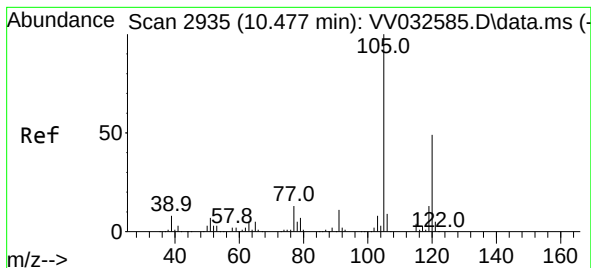
Tgt Ion:105 Resp: 8715263
Ion Ratio Lower Upper
105 100
120 26.9 21.0 31.6
77 17.4 12.6 19.0



#61
1,2,3-Trichloropropane
Concen: 33.689 ug/L
RT: 10.303 min Scan# 2881
Delta R.T. 0.090 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

Tgt Ion: 75 Resp: 132138
Ion Ratio Lower Upper
75 100
77 658.7 26.2 39.2#
110 25.2 30.6 46.0#





#62

1,3,5-Trimethylbenzene

Concen: 39.504 ug/L

RT: 10.686 min Scan# 3000

Delta R.T. 0.209 min

Lab File: VV032597.D

Acq: 24 Oct 2023 18:06

Instrument :

MSVOA_V

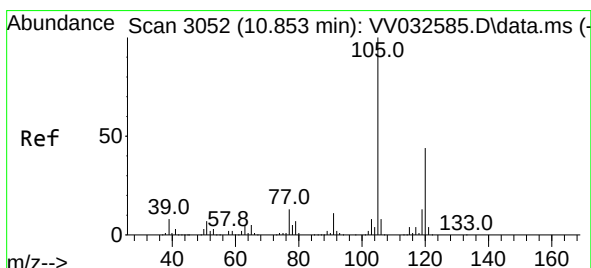
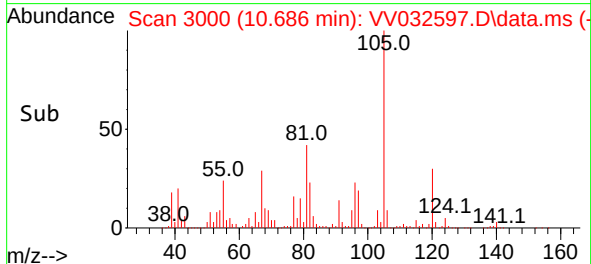
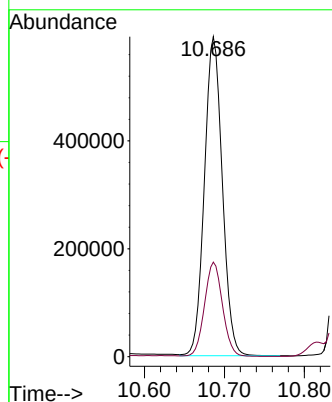
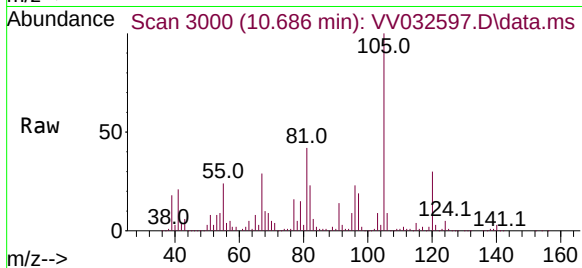
ClientSampleId :

Tgt Ion:105 Resp: 922109

Ion Ratio Lower Upper

105 100

120 2260.0 39.9 59.9#



#63

1,2,4-Trimethylbenzene

Concen: 191.814 ug/L

RT: 11.040 min Scan# 3110

Delta R.T. 0.186 min

Lab File: VV032597.D

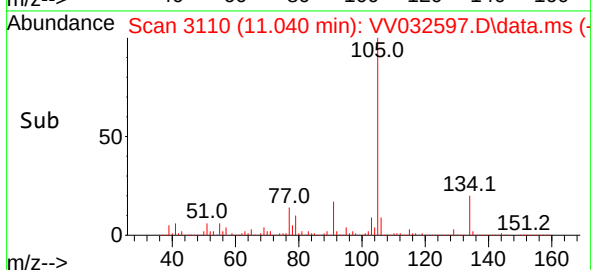
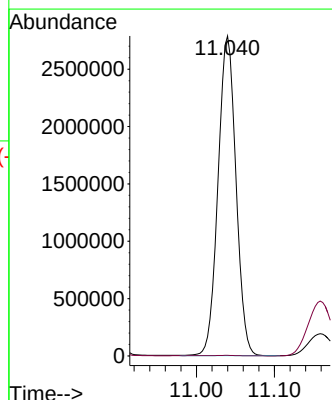
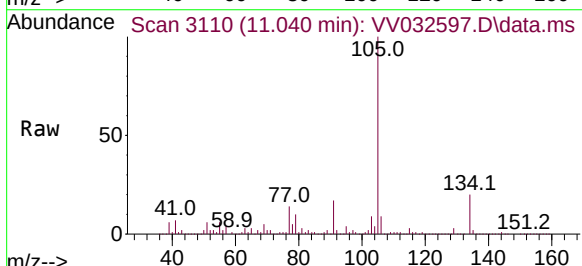
Acq: 24 Oct 2023 18:06

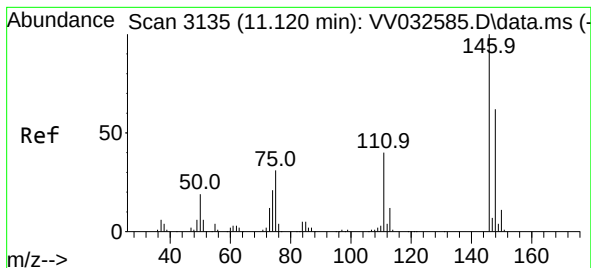
Tgt Ion:105 Resp: 4457520

Ion Ratio Lower Upper

105 100

120 23.0 36.2 54.4#





#64

1,3-Dichlorobenzene

Concen: 0.138 ug/L

RT: 11.139 min Scan# 3135

Delta R.T. 0.019 min

Lab File: VV032597.D

Acq: 24 Oct 2023 18:06

Instrument :

MSVOA_V

ClientSampleId :

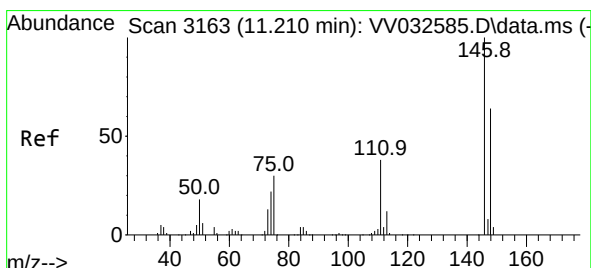
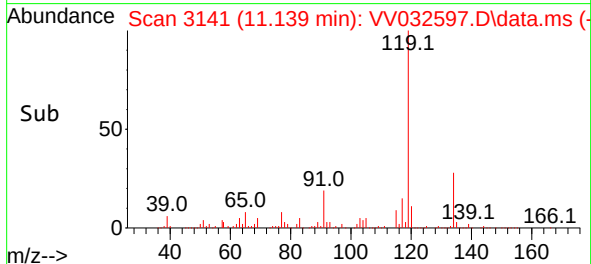
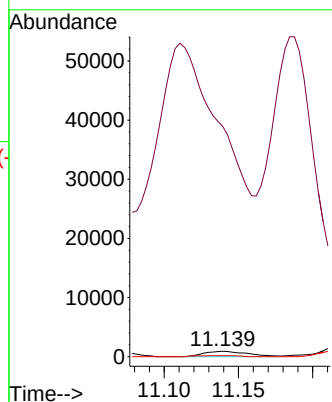
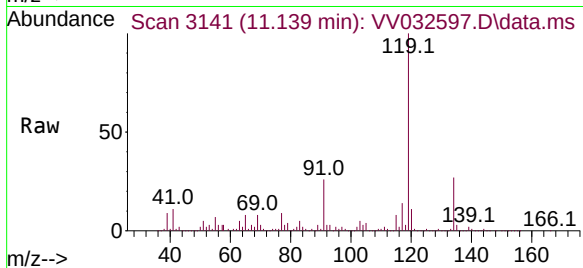
Tgt Ion:146 Resp: 1891

Ion Ratio Lower Upper

146 100

111 4279.9 27.8 51.6#

148 17.2 43.7 81.1#



#65

1,4-Dichlorobenzene

Concen: 0.595 ug/L

RT: 11.230 min Scan# 3169

Delta R.T. 0.019 min

Lab File: VV032597.D

Acq: 24 Oct 2023 18:06

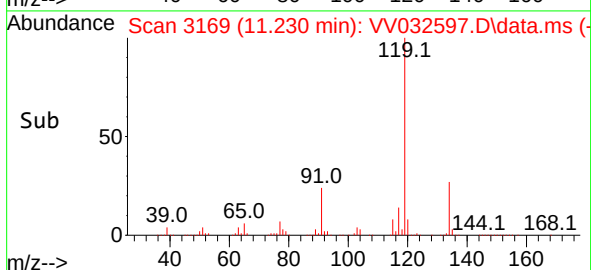
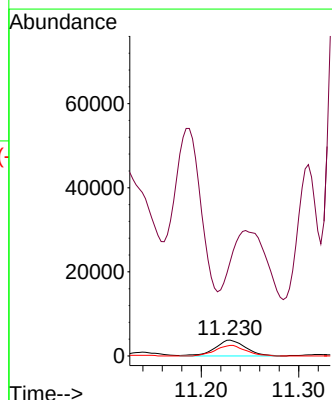
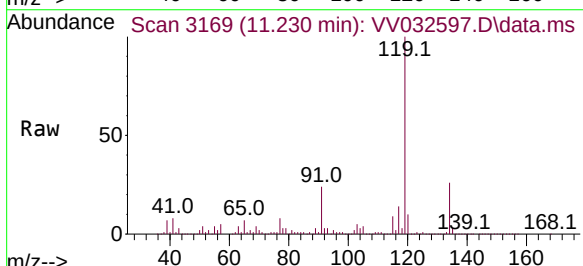
Tgt Ion:146 Resp: 8172

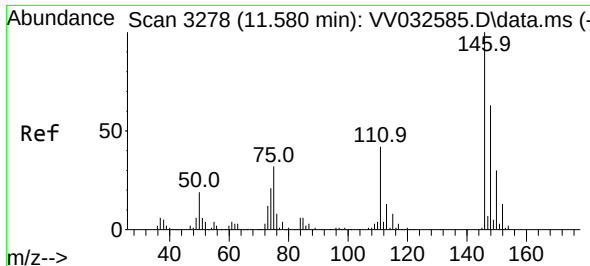
Ion Ratio Lower Upper

146 100

111 596.5 26.9 49.9#

148 67.0 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 1.522 ug/L

RT: 11.593 min Scan# 31

Delta R.T. 0.013 min

Lab File: VV032597.D

Acq: 24 Oct 2023 18:06

Instrument :

MSVOA_V

ClientSampleId :

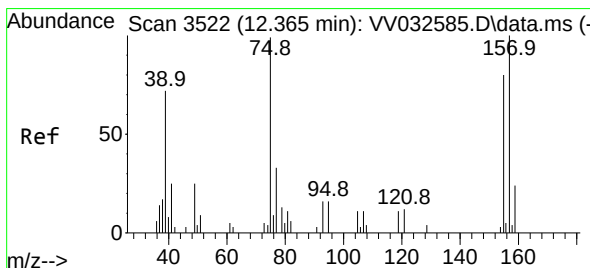
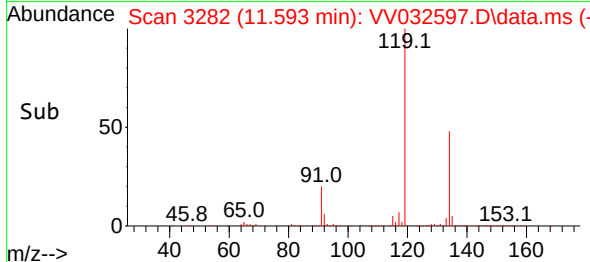
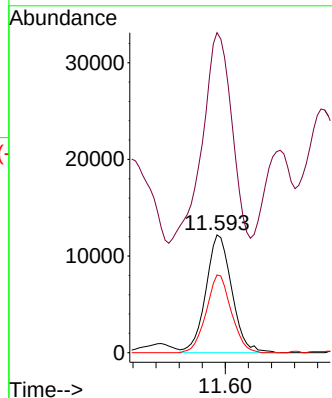
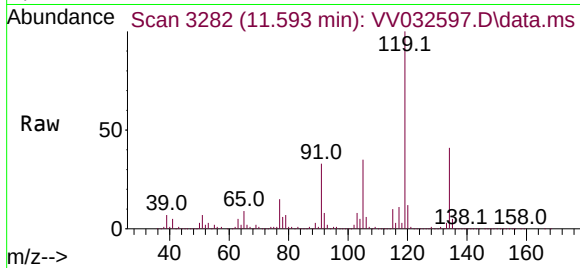
Tgt Ion:146 Resp: 18987

Ion Ratio Lower Upper

146 100

111 271.8 32.8 49.2#

148 66.0 51.0 76.4



#68

1,2-Dibromo-3-chloropropane

Concen: 44.885 ug/L

RT: 12.361 min Scan# 3521

Delta R.T. -0.003 min

Lab File: VV032597.D

Acq: 24 Oct 2023 18:06

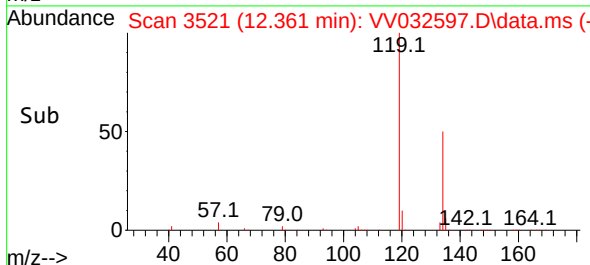
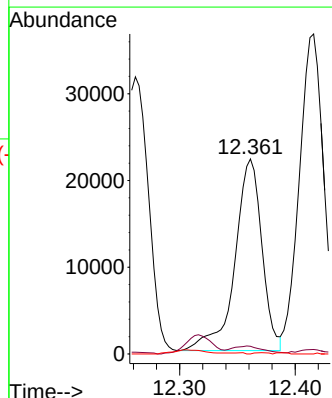
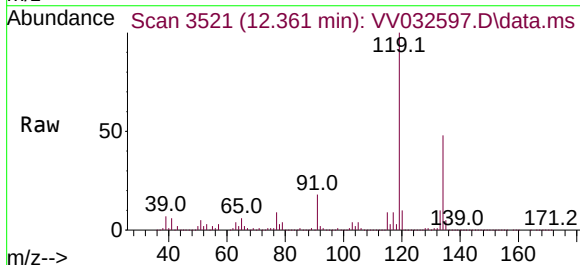
Tgt Ion: 75 Resp: 35970

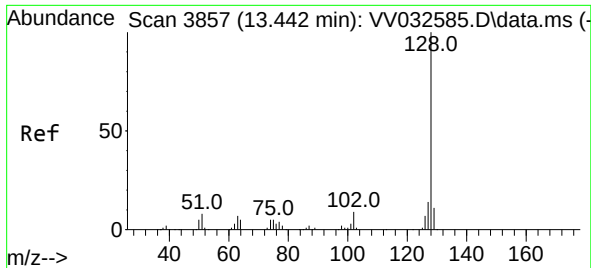
Ion Ratio Lower Upper

75 100

155 3.9 70.2 105.4#

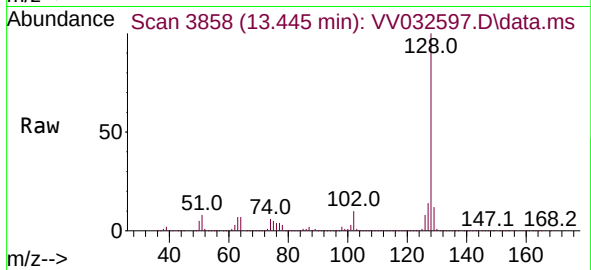
157 0.0 90.6 135.8#





#71
Naphthalene
Concen: 603.852 ug/L
RT: 13.445 min Scan# 3858
Delta R.T. 0.003 min
Lab File: VV032597.D
Acq: 24 Oct 2023 18:06

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:128 Resp: 9116657
Ion Ratio Lower Upper
128 100
129 11.8 9.0 13.4
127 13.9 10.2 15.2

