

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW101923\
 Data File : VW032499.D
 Acq On : 19 Oct 2023 16:04
 Operator : SY/MD
 Sample : 04928-01DL 2X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0AA1DL

Quant Time: Oct 20 06:23:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR092923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Oct 20 06:17:42 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.539	114	99795	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	111865	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.188	152	53219	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	37748	4.651	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.000%
7) Chloroethane-d5	1.532	69	34589	5.250	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	105.000%
11) 1,1-Dichloroethene-d2	2.063	65	15456	4.515	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	90.400%
20) 2-Butanone-d5	3.806	46	101363	49.370	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.740%
24) Chloroform-d	4.256	84	66382	4.636	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.800%
26) 1,2-Dichloroethane-d4	4.947	65	34743	5.123	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.400%
32) Benzene-d6	4.963	84	132449	4.024	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.400%
36) 1,2-Dichloropropane-d6	5.992	67	43931	4.028	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	80.600%
41) Toluene-d8	7.246	98	114952	3.819	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.400%
43) trans-1,3-Dichloroprop...	7.561	79	16111	4.169	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.400%
46) 2-Hexanone-d5	8.031	63	88108	48.457	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.920%
56) 1,1,2,2-Tetrachloroeth...	10.156	84	36069	4.728	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.600%
66) 1,2-Dichlorobenzene-d4	11.564	152	44967	4.553	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.285	62	17010	1.591	ug/L	98
12) 1,1-Dichloroethene	2.073	96	65780	8.988	ug/L #	83
16) Methylene chloride	2.449	84	75934	7.958	ug/L	94
18) trans-1,2-Dichloroethene	2.696	96	81978	9.779	ug/L	96
22) cis-1,2-Dichloroethene	3.822	96	15024	1.664	ug/L	95
27) 1,2-Dichloroethane	5.047	62	65226	7.135	ug/L	99
29) 1,1,1-Trichloroethane	4.516	97	24202	1.591	ug/L	95
31) Carbon tetrachloride	4.738	117	17194	1.336	ug/L	99
33) Benzene	5.015	78	118730	3.015	ug/L	100
34) Trichloroethene	5.838	95	15204	1.414	ug/L	96
37) 1,2-Dichloropropane	6.098	63	16064	1.525	ug/L #	95
42) Toluene	7.320	91	177617	4.230	ug/L	98
45) 1,1,2-Trichloroethane	7.770	97	43004	5.788	ug/L	97
47) Tetrachloroethene	7.908	164	65132	7.988	ug/L	100
51) Chlorobenzene	8.818	112	163850	6.061	ug/L	98
52) Ethylbenzene	8.950	91	84796	1.814	ug/L	98
53) m,p-Xylene	9.075	106	172517	9.949	ug/L	100
54) o-Xylene	9.481	106	48391	2.896	ug/L	99
55) Styrene	9.500	104	183421	6.500	ug/L	100

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Oct 20 06:17:42 2023
Response via : Initial Calibration

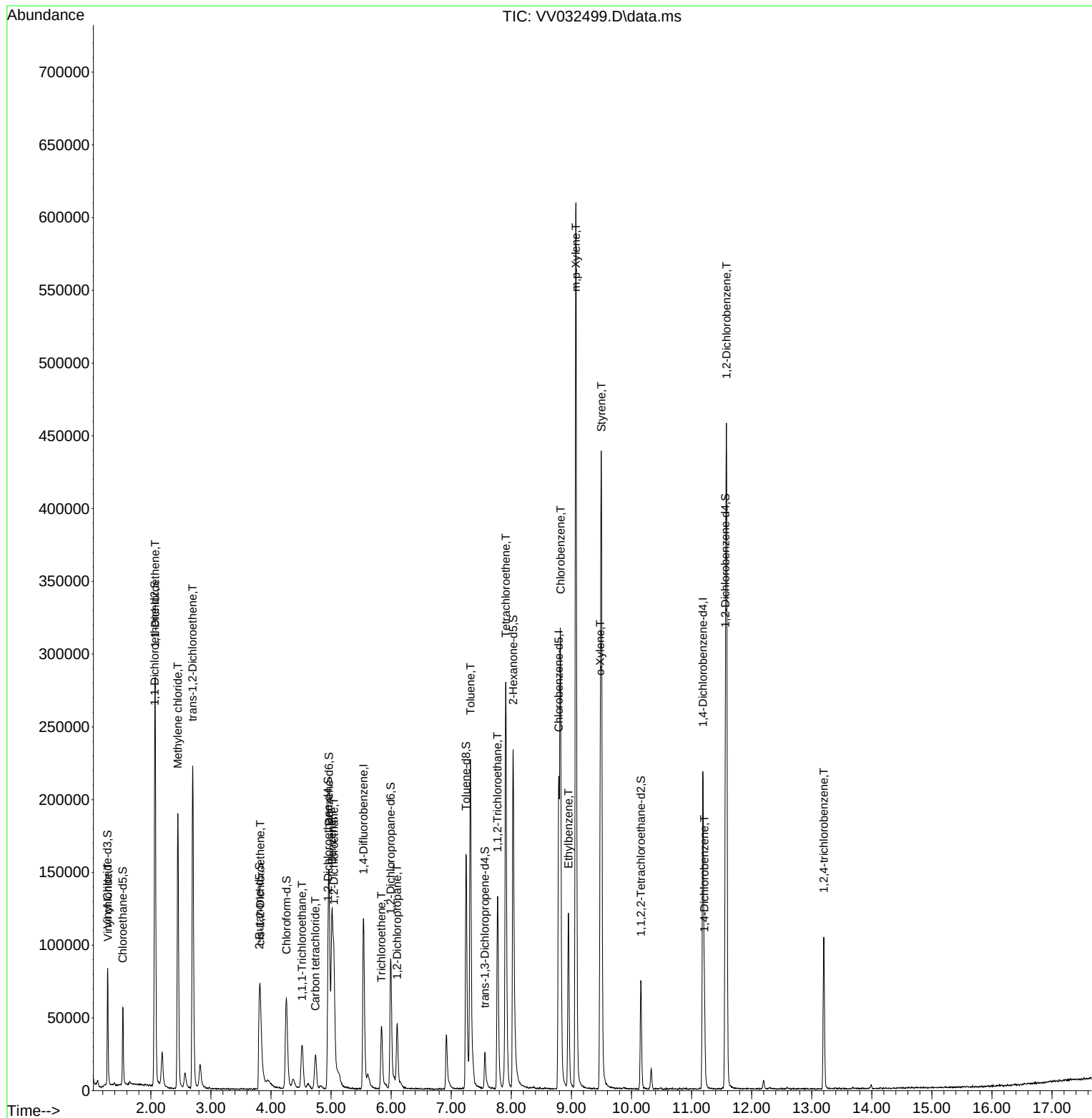
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.214	146	24742	1.248	ug/L	96
67) 1,2-Dichlorobenzene	11.580	146	157568	8.744	ug/L	99
70) 1,2,4-trichlorobenzene	13.201	180	30357	2.365	ug/L	98

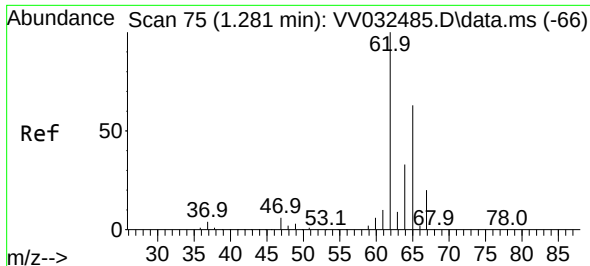
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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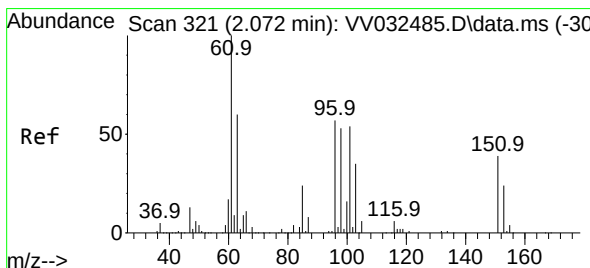
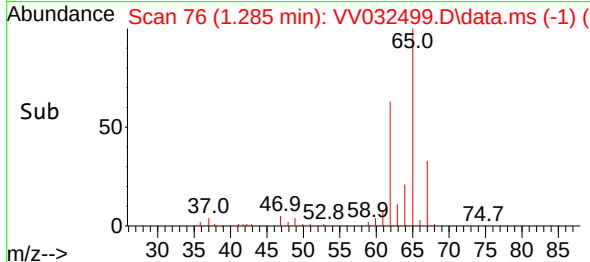
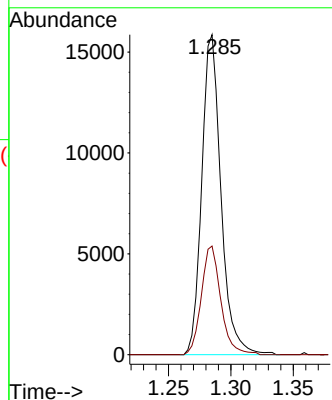
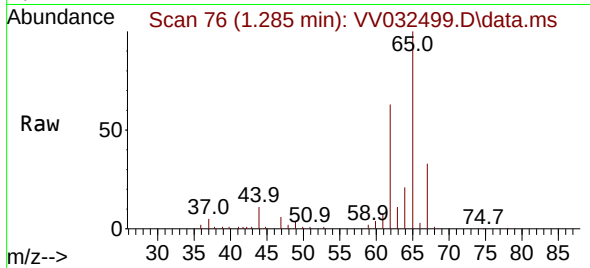




#5
 Vinyl chloride
 Concen: 1.591 ug/L
 RT: 1.285 min Scan# 75
 Delta R.T. 0.003 min
 Lab File: VV032499.D
 Acq: 19 Oct 2023 16:04

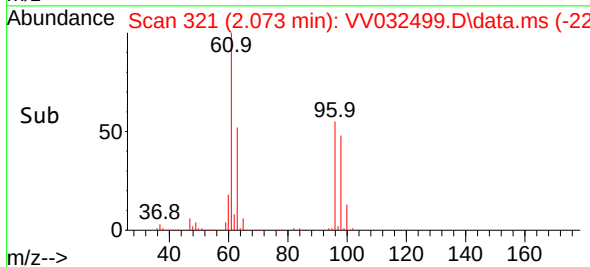
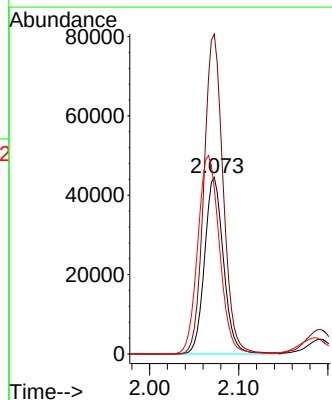
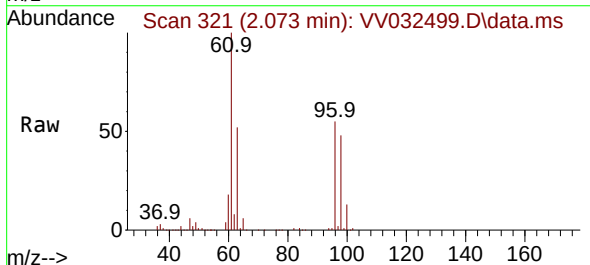
Instrument :
 MSVOA_V
 ClientSampleId :
 C0AA1DL

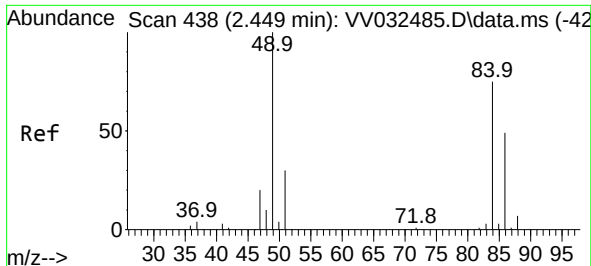
Tgt Ion: 62 Resp: 17010
 Ion Ratio Lower Upper
 62 100
 64 33.9 23.1 42.9



#12
 1,1-Dichloroethene
 Concen: 8.988 ug/L
 RT: 2.073 min Scan# 321
 Delta R.T. 0.000 min
 Lab File: VV032499.D
 Acq: 19 Oct 2023 16:04

Tgt Ion: 96 Resp: 65780
 Ion Ratio Lower Upper
 96 100
 61 181.2 127.3 236.3
 63 94.0 98.3 182.7#

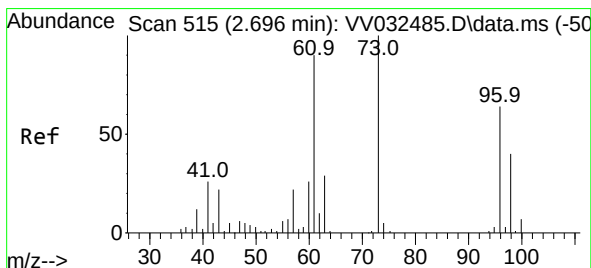
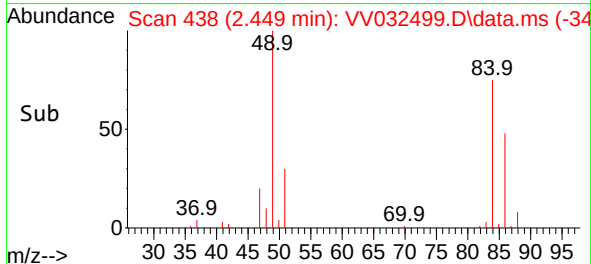
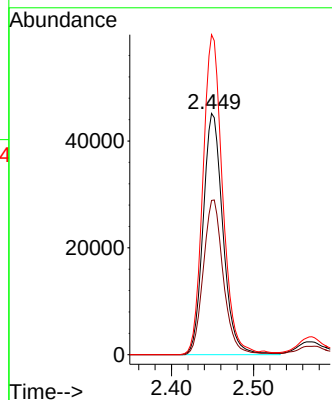
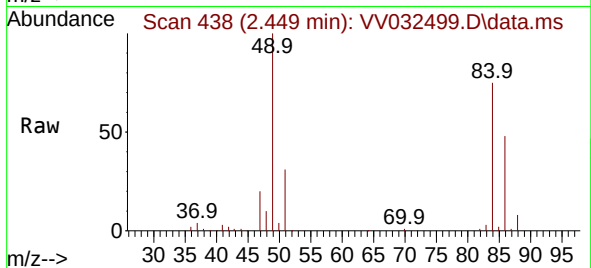




#16
Methylene chloride
Concen: 7.958 ug/L
RT: 2.449 min Scan# 41
Delta R.T. 0.000 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

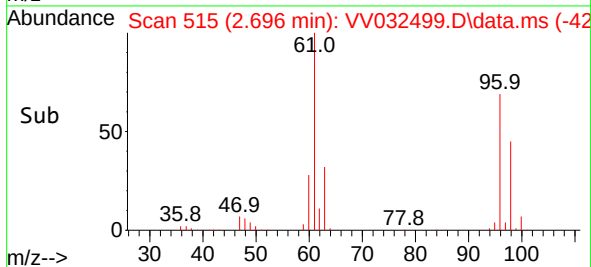
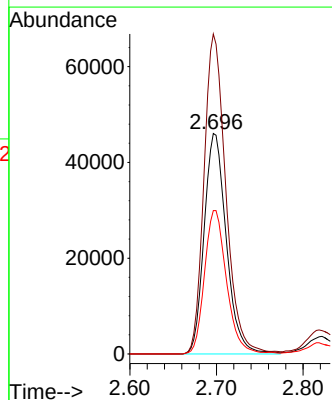
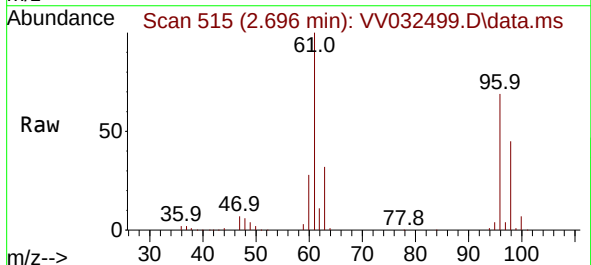
Instrument :
MSVOA_V
ClientSampleId :
C0AA1DL

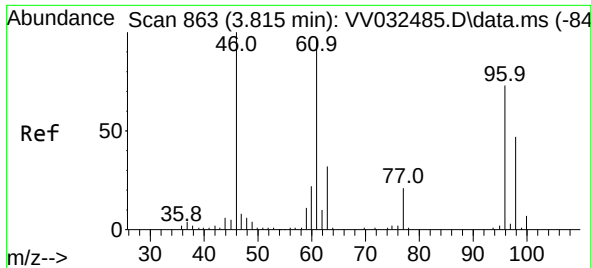
Tgt Ion: 84 Resp: 75934
Ion Ratio Lower Upper
84 100
86 63.9 43.2 80.2
49 132.6 86.3 160.3



#18
trans-1,2-Dichloroethene
Concen: 9.779 ug/L
RT: 2.696 min Scan# 515
Delta R.T. 0.000 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

Tgt Ion: 96 Resp: 81978
Ion Ratio Lower Upper
96 100
61 145.1 96.9 180.1
98 65.0 45.3 84.1

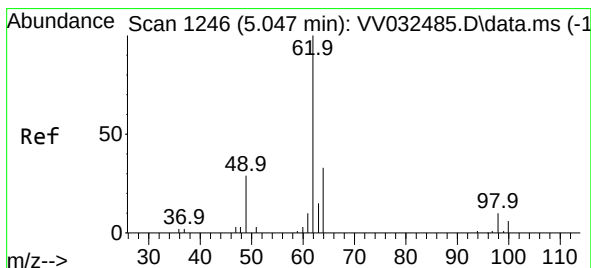
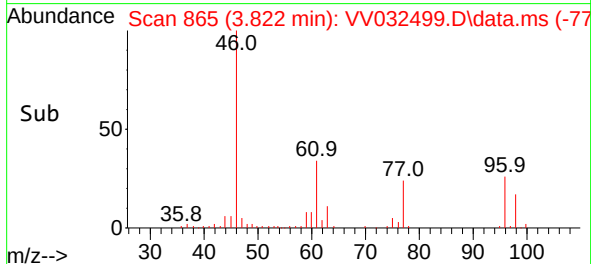
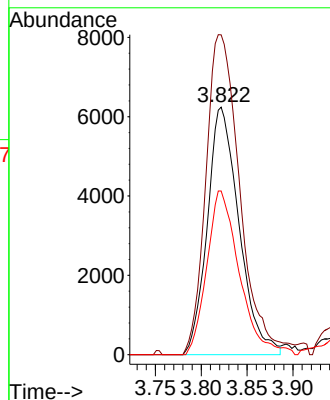
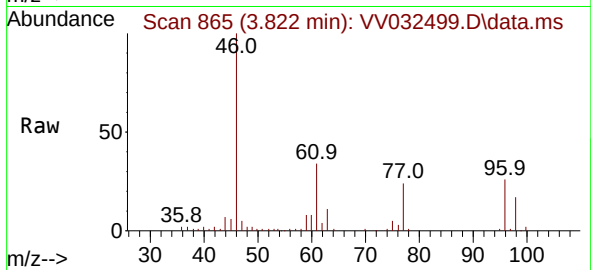




#22
cis-1,2-Dichloroethene
Concen: 1.664 ug/L
RT: 3.822 min Scan# 865
Delta R.T. 0.007 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

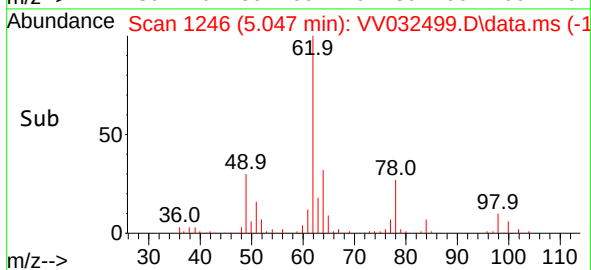
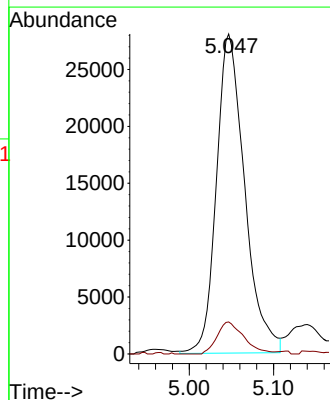
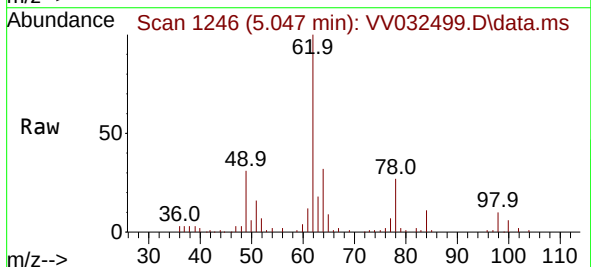
Instrument :
MSVOA_V
ClientSampleId :
C0AA1DL

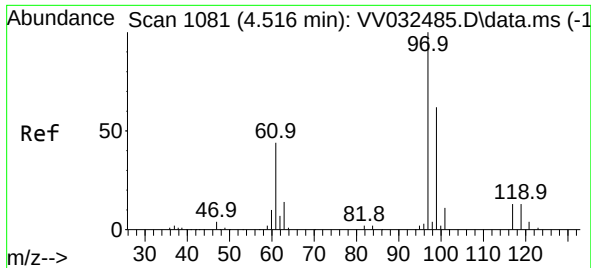
Tgt Ion: 96 Resp: 15024
Ion Ratio Lower Upper
96 100
61 129.2 85.8 159.4
98 66.1 44.0 81.6



#27
1,2-Dichloroethane
Concen: 7.135 ug/L
RT: 5.047 min Scan# 1246
Delta R.T. 0.000 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

Tgt Ion: 62 Resp: 65226
Ion Ratio Lower Upper
62 100
98 10.0 7.8 11.8





#29

1,1,1-Trichloroethane

Concen: 1.591 ug/L

RT: 4.516 min Scan# 1081

Delta R.T. 0.000 min

Lab File: VV032499.D

Acq: 19 Oct 2023 16:04

Instrument :

MSVOA_V

ClientSampleId :

C0AA1DL

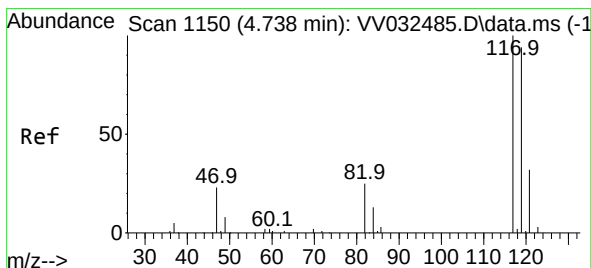
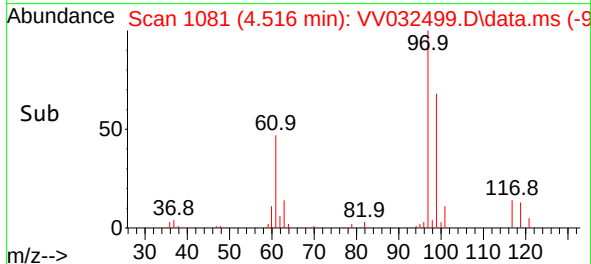
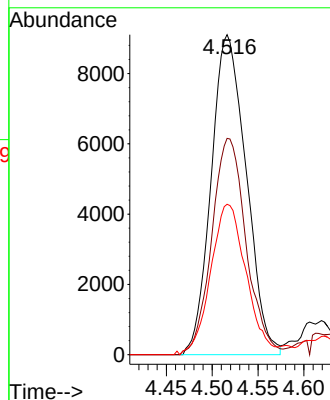
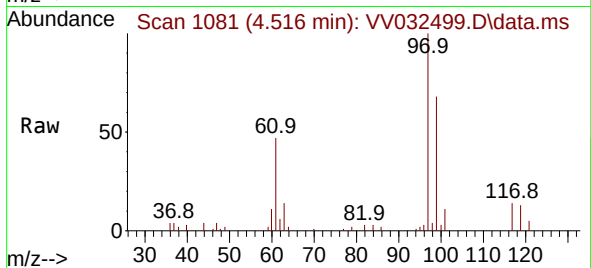
Tgt Ion: 97 Resp: 24202

Ion Ratio Lower Upper

97 100

99 66.4 50.1 75.1

61 47.5 35.1 52.7



#31

Carbon tetrachloride

Concen: 1.336 ug/L

RT: 4.738 min Scan# 1150

Delta R.T. 0.000 min

Lab File: VV032499.D

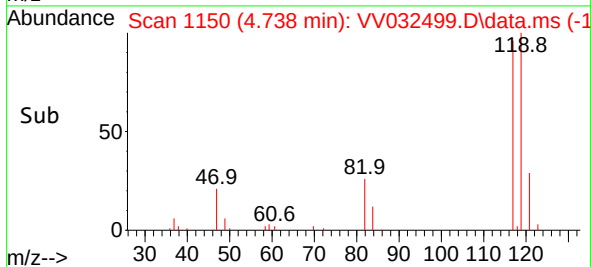
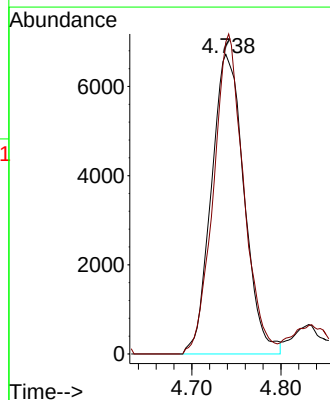
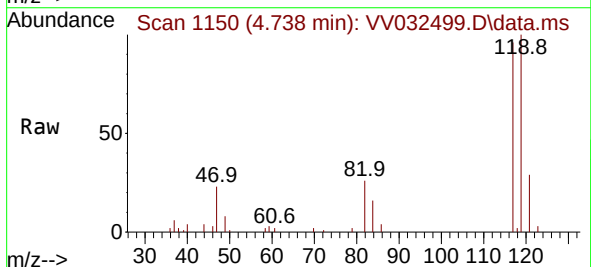
Acq: 19 Oct 2023 16:04

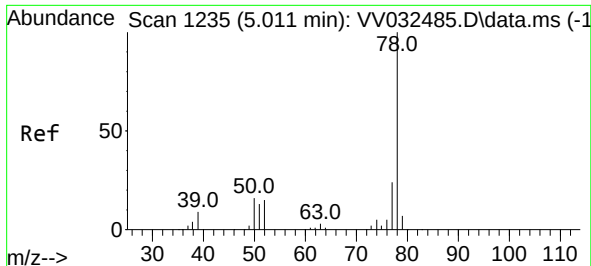
Tgt Ion: 117 Resp: 17194

Ion Ratio Lower Upper

117 100

119 97.9 77.6 116.4

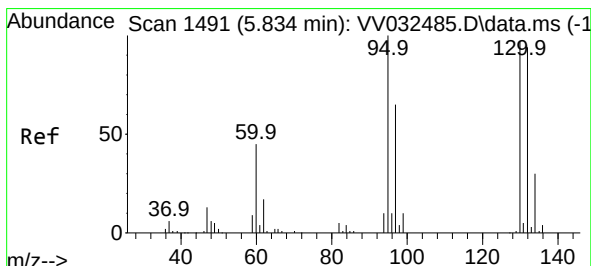
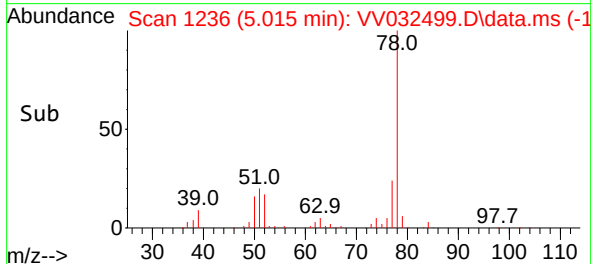
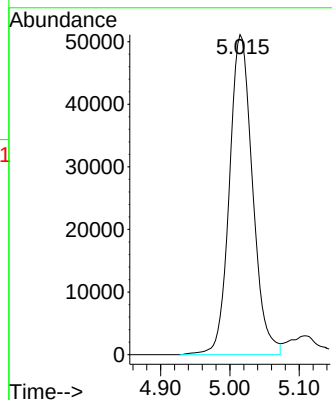
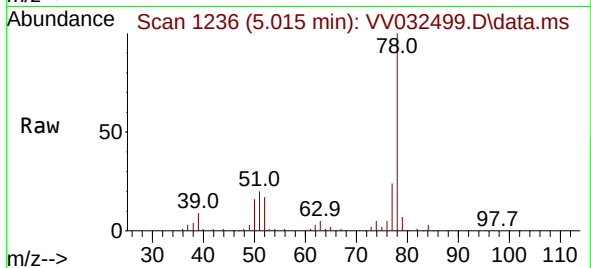




#33
Benzene
Concen: 3.015 ug/L
RT: 5.015 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

Instrument :
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ClientSampleId :
C0AA1DL

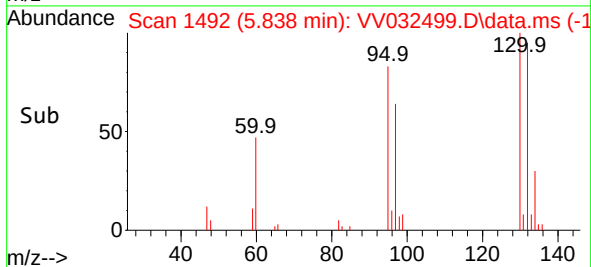
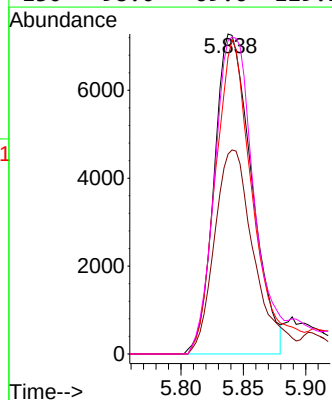
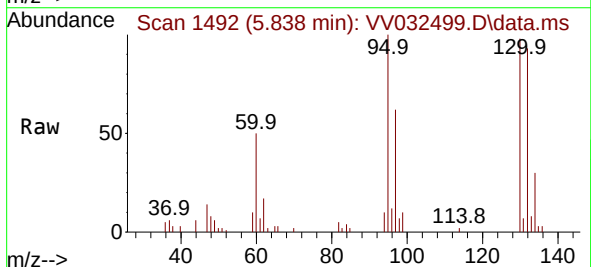
Tgt Ion: 78 Resp: 118730

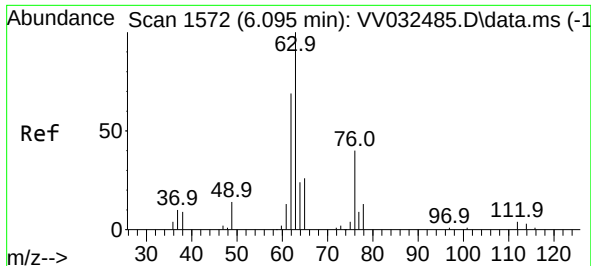


#34
Trichloroethene
Concen: 1.414 ug/L
RT: 5.838 min Scan# 1492
Delta R.T. 0.003 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

Tgt Ion: 95 Resp: 15204

Ion	Ratio	Lower	Upper
95	100		
97	62.5	45.7	84.9
132	92.7	70.3	130.5
130	98.0	69.6	129.2





#37

1,2-Dichloropropane

Concen: 1.525 ug/L

RT: 6.098 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV032499.D

Acq: 19 Oct 2023 16:04

Instrument :

MSVOA_V

ClientSampleId :

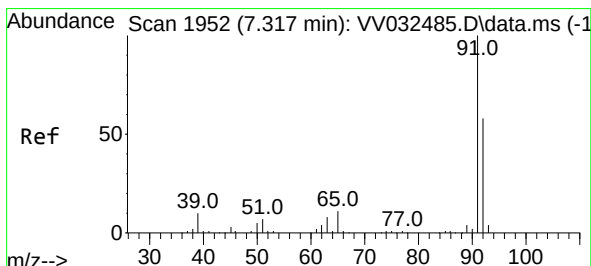
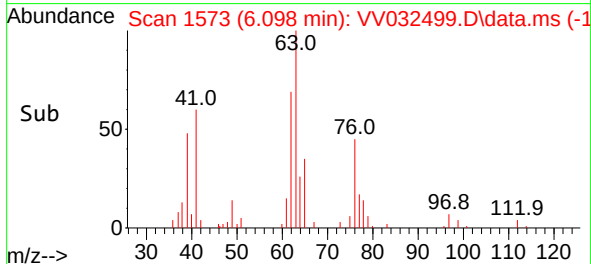
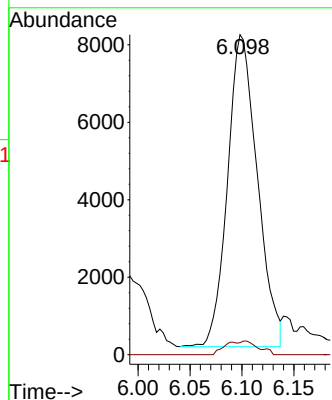
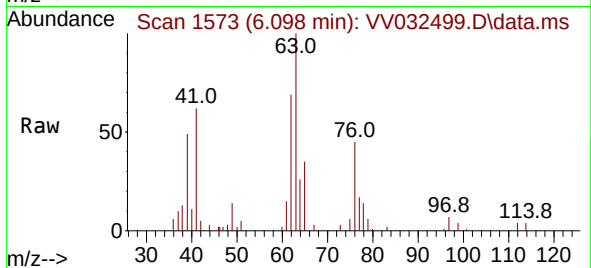
C0AA1DL

Tgt Ion: 63 Resp: 16064

Ion Ratio Lower Upper

63 100

112 2.8 3.4 5.2#



#42

Toluene

Concen: 4.230 ug/L

RT: 7.320 min Scan# 1953

Delta R.T. 0.003 min

Lab File: VV032499.D

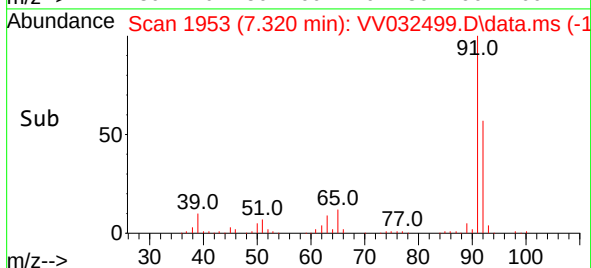
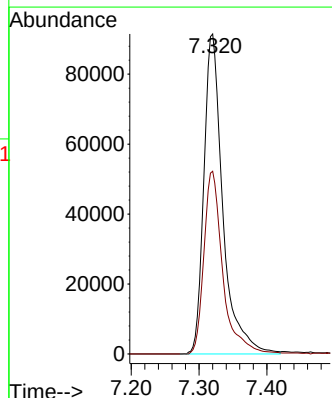
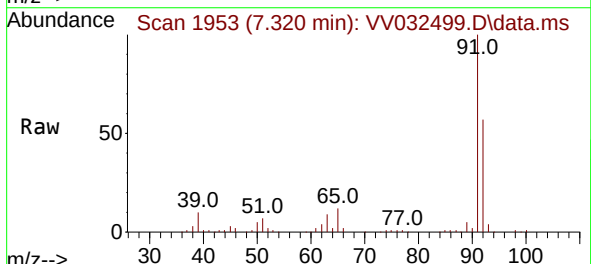
Acq: 19 Oct 2023 16:04

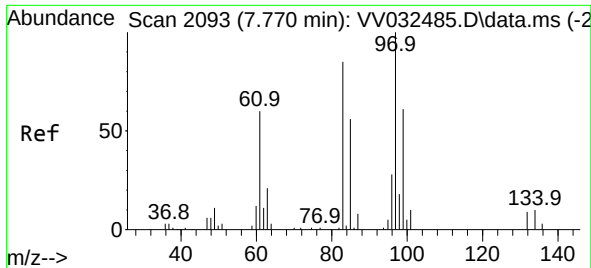
Tgt Ion: 91 Resp: 177617

Ion Ratio Lower Upper

91 100

92 57.1 40.8 75.8





#45

1,1,2-Trichloroethane

Concen: 5.788 ug/L

RT: 7.770 min Scan# 2093

Delta R.T. 0.000 min

Lab File: VV032499.D

Acq: 19 Oct 2023 16:04

Instrument :

MSVOA_V

ClientSampleId :

C0AA1DL

Tgt Ion: 97 Resp: 43004

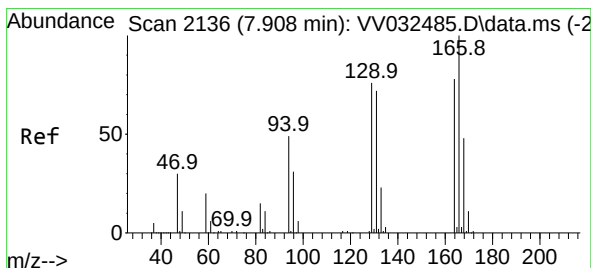
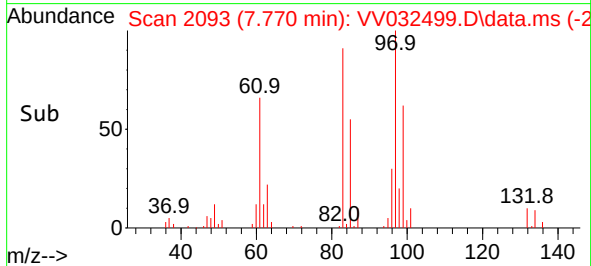
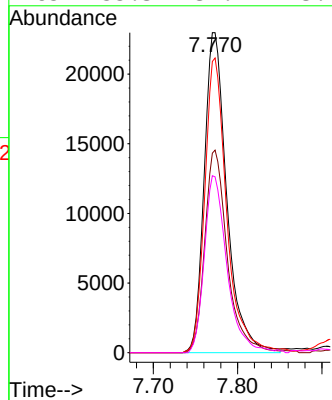
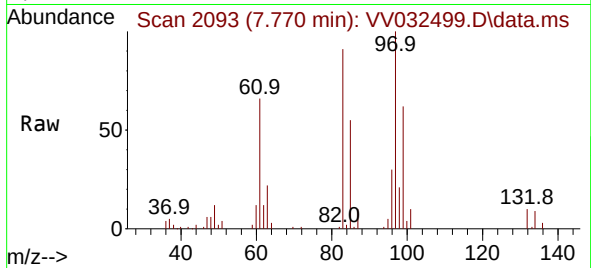
Ion Ratio Lower Upper

97 100

99 62.4 42.8 79.4

83 91.0 60.9 113.1

85 55.3 39.4 73.2



#47

Tetrachloroethene

Concen: 7.988 ug/L

RT: 7.908 min Scan# 2136

Delta R.T. 0.000 min

Lab File: VV032499.D

Acq: 19 Oct 2023 16:04

Tgt Ion:164 Resp: 65132

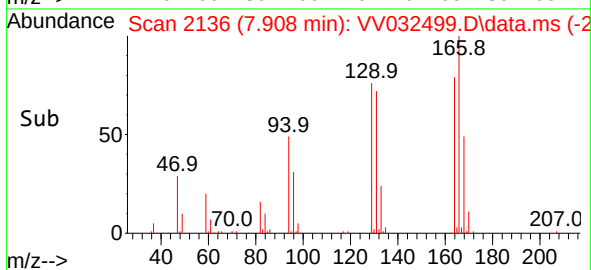
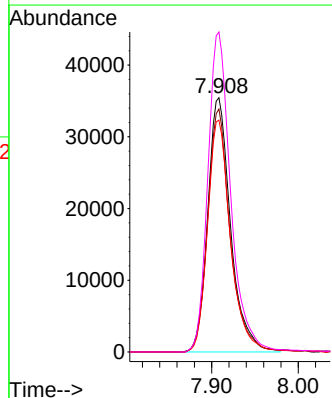
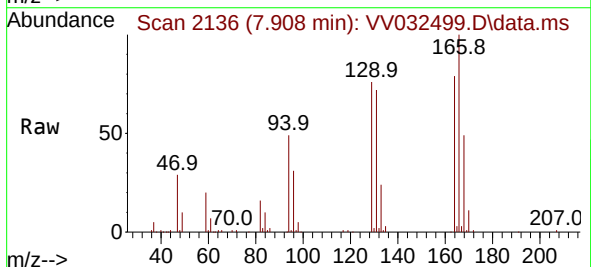
Ion Ratio Lower Upper

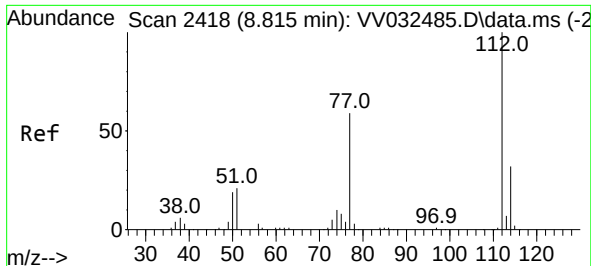
164 100

129 95.5 66.4 123.4

131 91.2 63.7 118.3

166 125.8 87.9 163.3

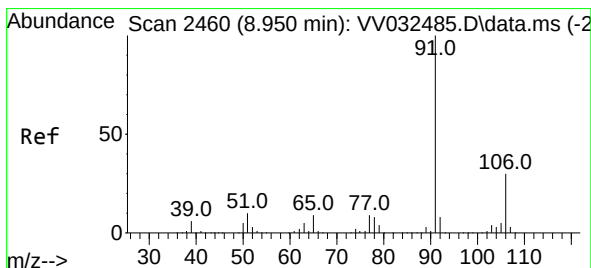
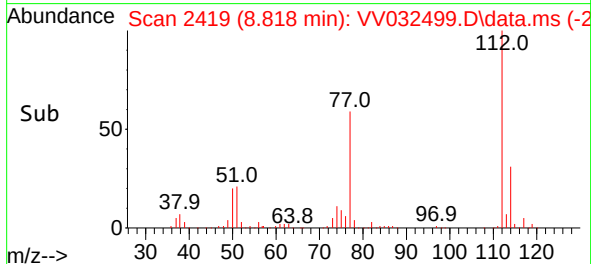
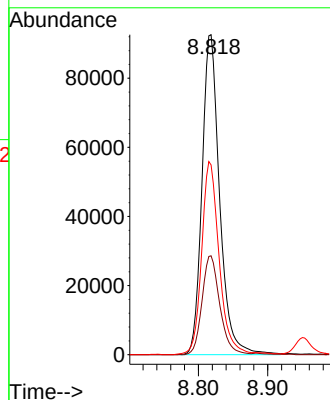
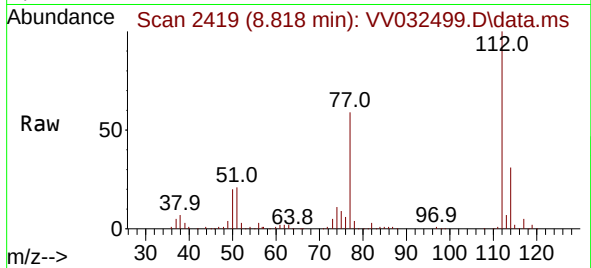




#51
Chlorobenzene
Concen: 6.061 ug/L
RT: 8.818 min Scan# 2418
Delta R.T. 0.003 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

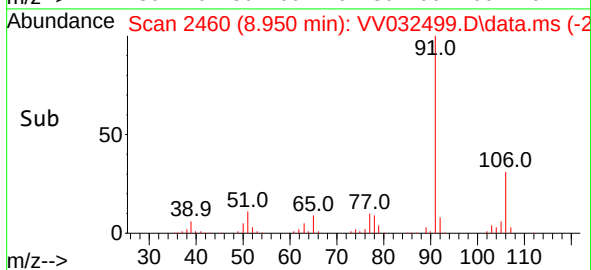
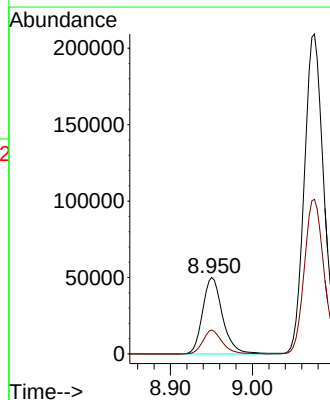
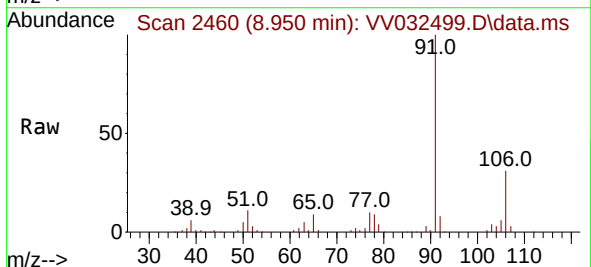
Instrument :
MSVOA_V
ClientSampleId :
C0AA1DL

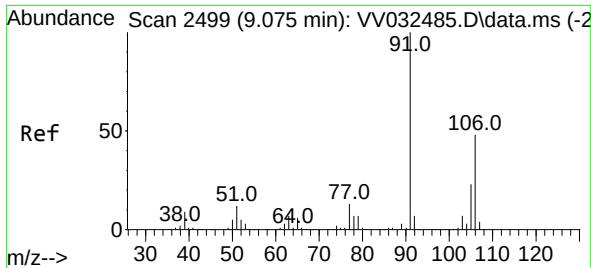
Tgt Ion:112 Resp: 163850
Ion Ratio Lower Upper
112 100
114 30.9 22.1 41.1
77 59.3 46.1 69.1



#52
Ethylbenzene
Concen: 1.814 ug/L
RT: 8.950 min Scan# 2460
Delta R.T. 0.000 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

Tgt Ion: 91 Resp: 84796
Ion Ratio Lower Upper
91 100
106 31.4 21.3 39.5

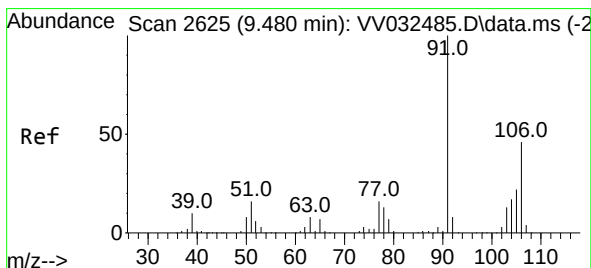
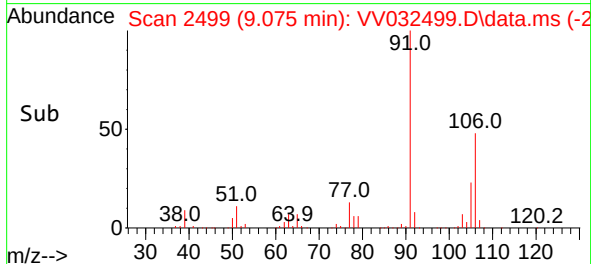
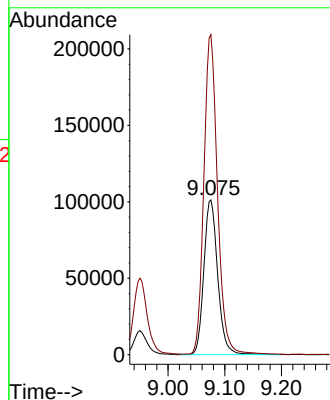
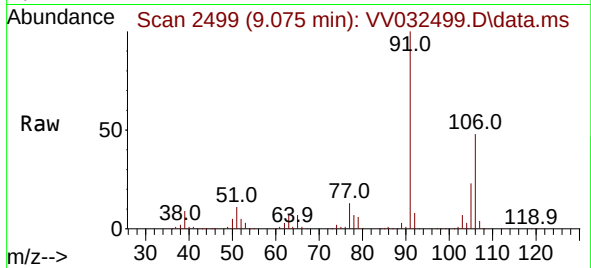




#53
m,p-Xylene
Concen: 9.949 ug/L
RT: 9.075 min Scan# 2499
Delta R.T. 0.000 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

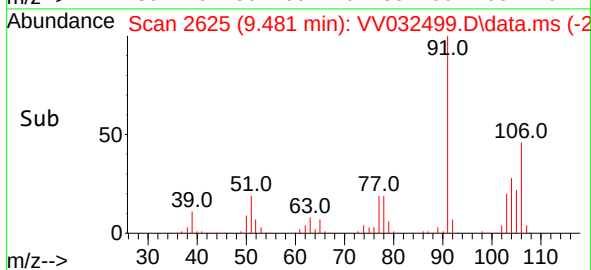
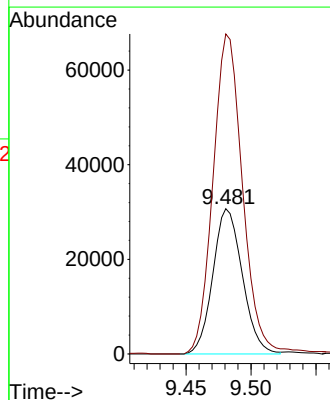
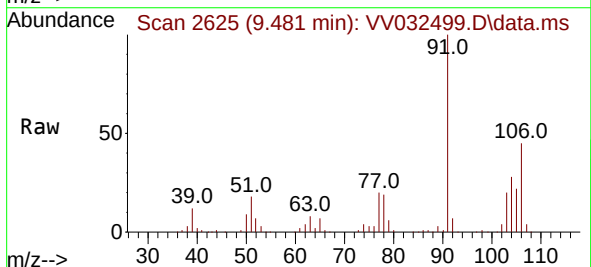
Instrument :
MSVOA_V
ClientSampleId :
C0AA1DL

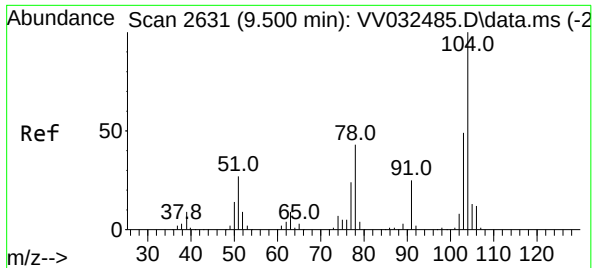
Tgt Ion:106 Resp: 172517
Ion Ratio Lower Upper
106 100
91 206.7 144.5 268.3



#54
o-Xylene
Concen: 2.896 ug/L
RT: 9.481 min Scan# 2625
Delta R.T. 0.000 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

Tgt Ion:106 Resp: 48391
Ion Ratio Lower Upper
106 100
91 220.2 154.8 287.4

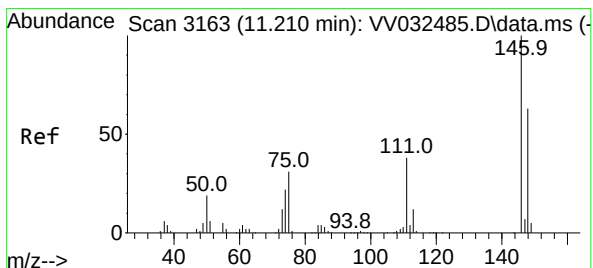
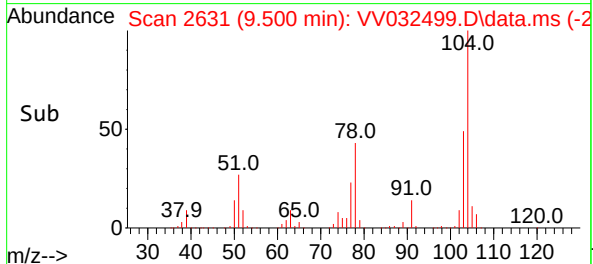
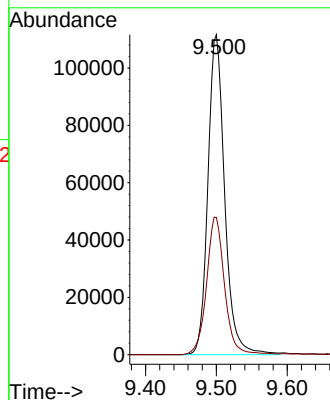
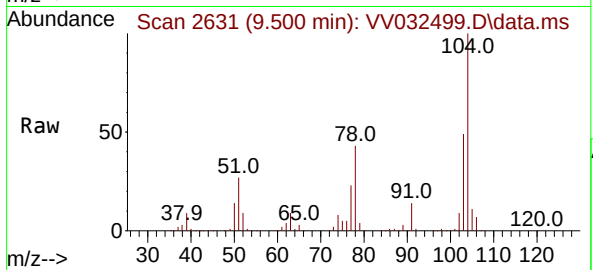




#55
Styrene
Concen: 6.500 ug/L
RT: 9.500 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

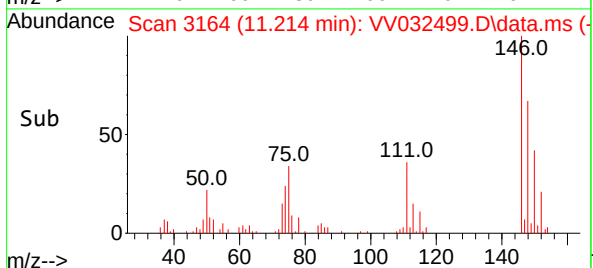
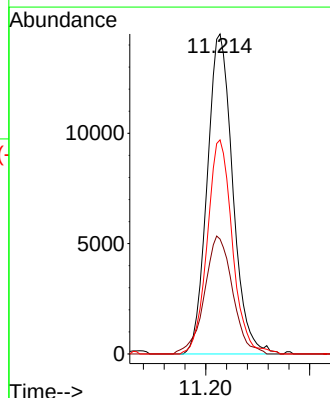
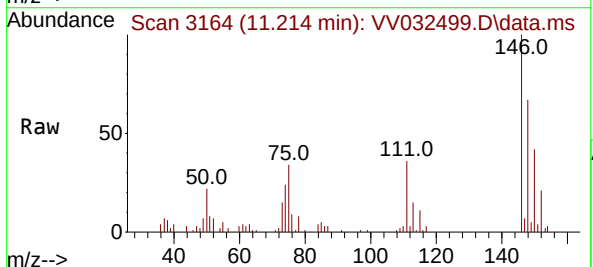
Instrument :
MSVOA_V
ClientSampleId :
C0AA1DL

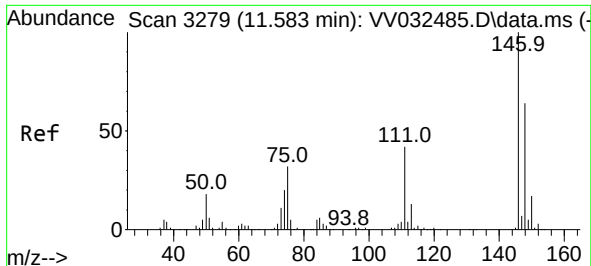
Tgt Ion:104 Resp: 183421
Ion Ratio Lower Upper
104 100
78 42.9 29.9 55.5



#65
1,4-Dichlorobenzene
Concen: 1.248 ug/L
RT: 11.214 min Scan# 3164
Delta R.T. 0.003 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

Tgt Ion:146 Resp: 24742
Ion Ratio Lower Upper
146 100
111 35.9 26.9 49.9
148 66.9 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 8.744 ug/L

RT: 11.580 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV032499.D

Acq: 19 Oct 2023 16:04

Instrument :

MSVOA_V

ClientSampleId :

C0AA1DL

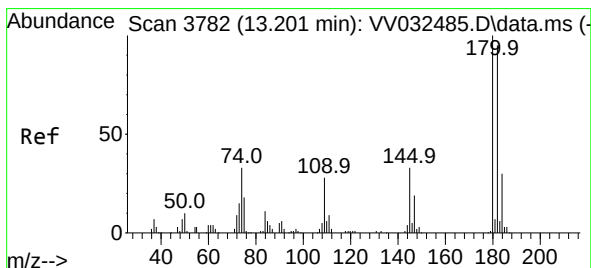
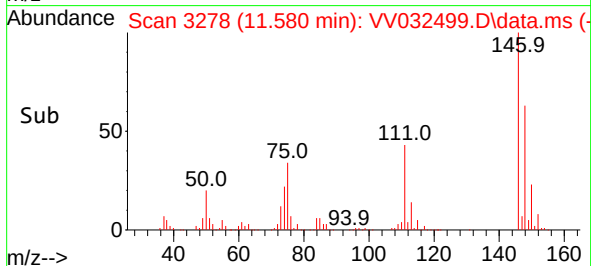
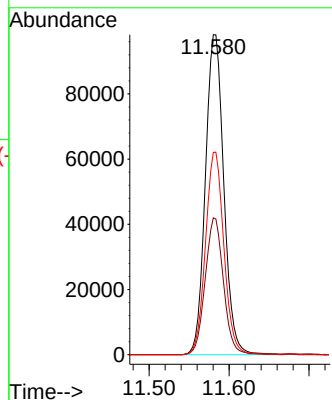
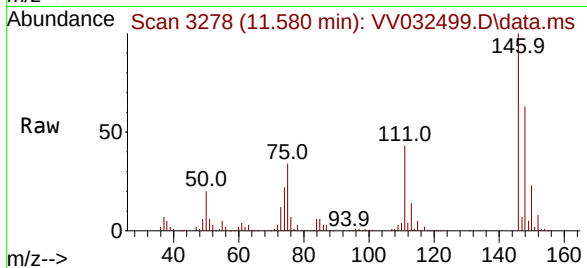
Tgt Ion:146 Resp: 157568

Ion Ratio Lower Upper

146 100

111 42.8 32.8 49.2

148 63.2 51.0 76.4



#70

1,2,4-trichlorobenzene

Concen: 2.365 ug/L

RT: 13.201 min Scan# 3782

Delta R.T. 0.000 min

Lab File: VV032499.D

Acq: 19 Oct 2023 16:04

Tgt Ion:180 Resp: 30357

Ion Ratio Lower Upper

180 100

182 93.3 76.5 114.7

145 30.5 24.3 36.5

