

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW100121\
 Data File : VW022499.D
 Acq On : 02 Oct 2021 06:01
 Operator : SY/MD
 Sample : M4023-09
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0AJ8

Quant Time: Oct 02 06:33:45 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM100121WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Oct 02 01:27:14 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.625	114	242621	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	242056	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	126512	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	70107	46.722	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	93.440%
7) Chloroethane-d5	1.568	69	59526	50.467	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.940%
11) 1,1-Dichloroethene-d2	2.114	63	5169232	1747.145	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	3494.300%#
21) 2-Butanone-d5	3.909	46	77429	93.745	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	93.740%
24) Chloroform-d	4.355	84	129729	47.321	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.640%
26) 1,2-Dichloroethane-d4	5.037	65	79247	49.831	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.660%
32) Benzene-d6	5.060	84	263604	47.008	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.020%
36) 1,2-Dichloropropane-d6	6.095	67	84860	49.157	ug/L	0.03
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.320%
41) Toluene-d8	7.320	98	249441	48.493	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.980%
43) trans-1,3-Dichloroprop...	7.625	79	39028	47.783	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.560%
47) 2-Hexanone-d5	8.092	63	67015	93.710	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	93.710%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	110133	45.879	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.760%
66) 1,2-Dichlorobenzene-d4	11.625	152	98268	47.631	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.260%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.307	62	33091	14.469	ug/L	92
10) 1,1,2-Trichloro-1,2,2-...	2.114	101	21738	12.225	ug/L #	31
12) 1,1-Dichloroethene	2.118	96	8625152	5089.210	ug/L #	68
13) Acetone	2.179	43	2565	2.458	ug/L	81
14) Carbon disulfide	2.294	76	3884	0.759	ug/L	99
16) Methylene chloride	2.507	84	4987	2.342	ug/L	97
17) trans-1,2-Dichloroethene	2.764	96	25185	13.537	ug/L	100
19) 1,1-Dichloroethane	3.191	63	543237	165.022	ug/L	98
20) cis-1,2-Dichloroethene	3.918	96	16821965	8487.321	ug/L	94
25) Chloroform	4.381	83	45743	13.809	ug/L	97
27) 1,2-Dichloroethane	5.140	62	41909	17.472	ug/L	99
30) 1,1,1-Trichloroethane	4.622	97	17152845	5672.730	ug/L	96
33) Benzene	5.114	78	8264	1.106	ug/L	100
37) 1,2-Dichloropropane	6.095	63	8833	4.616	ug/L	100
39) cis-1,3-Dichloropropene	6.992	75	2616	0.909	ug/L #	73
40) 4-Methyl-2-pentanone	7.240	43	7286	2.710	ug/L	97
42) Toluene	7.391	91	314363	39.930	ug/L	100
44) trans-1,3-Dichloropropene	7.625	75	1849	0.667	ug/L	87
45) 1,1,2-Trichloroethane	7.841	97	174507	88.098	ug/L	99

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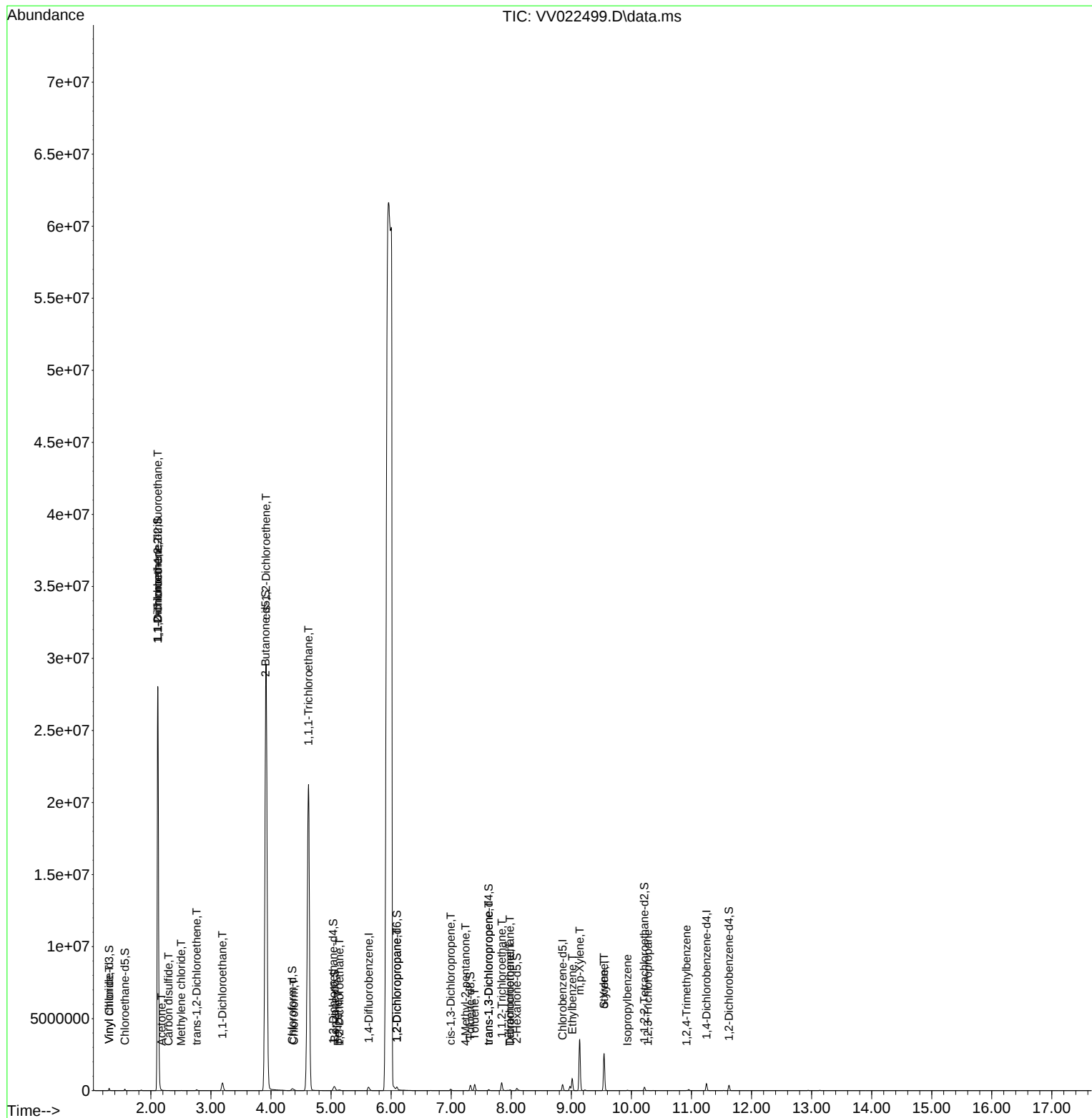
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Tetrachloroethene	7.979	164	12136	7.429	ug/L	92
49) Dibromochloromethane	7.979	129	10399	4.851	ug/L #	11
52) Ethylbenzene	9.014	91	572339	69.850	ug/L	98
53) m,p-Xylene	9.140	106	991408	305.389	ug/L	99
54) o-Xylene	9.545	106	671884	212.429	ug/L	100
55) Styrene	9.545	104	32853	6.053	ug/L #	1
60) Isopropylbenzene	9.934	105	19170	2.382	ug/L	99
61) 1,2,3-Trichloropropane	10.275	75	4331	1.800	ug/L	97
63) 1,2,4-Trimethylbenzene	10.918	105	6907	1.025	ug/L	98

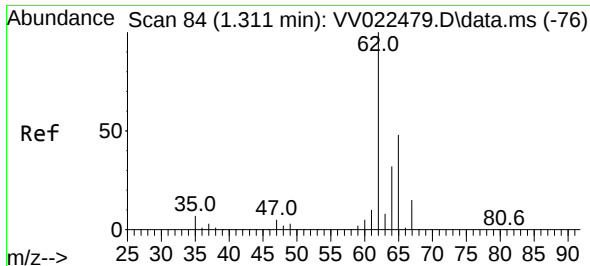
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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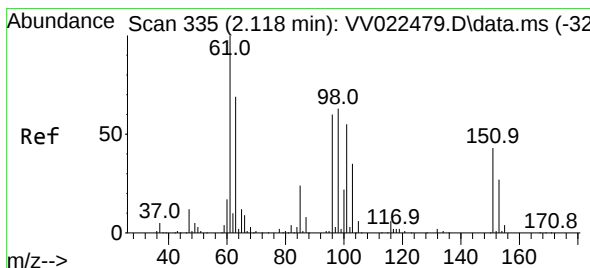
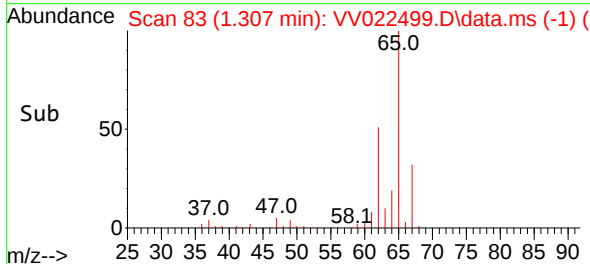
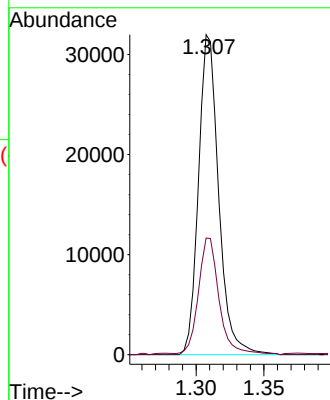
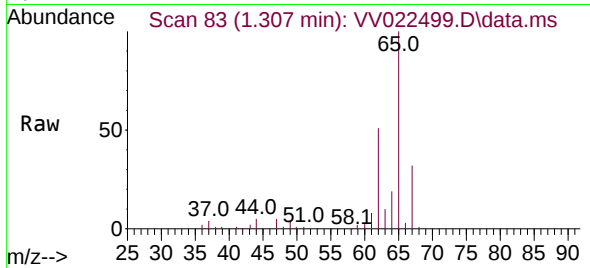




#5
 Vinyl chloride
 Concen: 14.469 ug/L
 RT: 1.307 min Scan# 83
 Delta R.T. -0.003 min
 Lab File: VV022499.D
 Acq: 02 Oct 2021 06:01

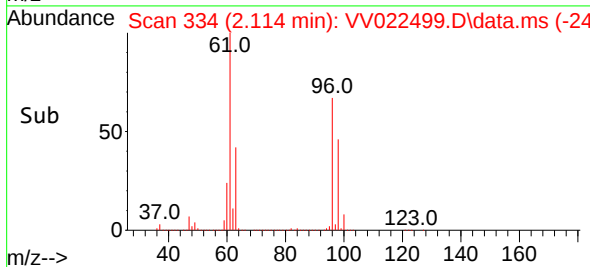
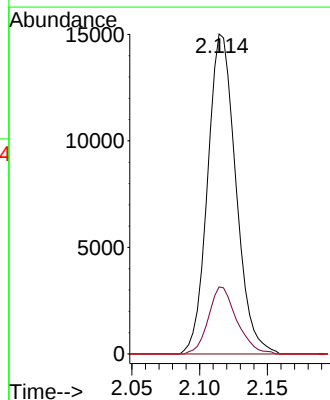
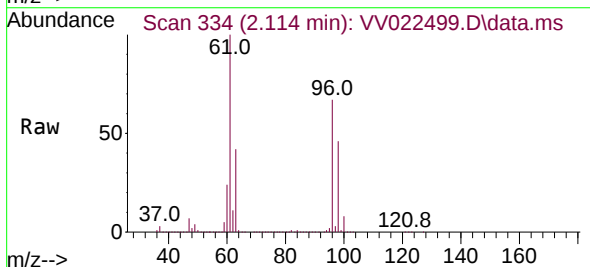
Instrument :
 MSVOA_V
 ClientSampleId :
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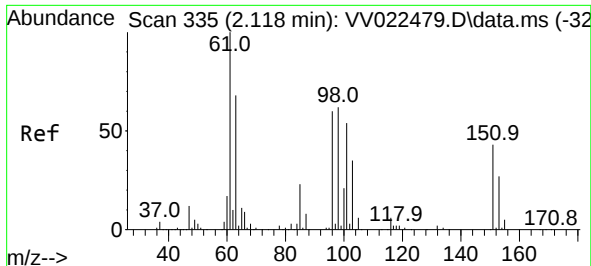
Tgt Ion: 62 Resp: 33091
 Ion Ratio Lower Upper
 62 100
 64 36.4 22.5 41.9



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 12.225 ug/L
 RT: 2.114 min Scan# 334
 Delta R.T. -0.003 min
 Lab File: VV022499.D
 Acq: 02 Oct 2021 06:01

Tgt Ion: 101 Resp: 21738
 Ion Ratio Lower Upper
 101 100
 85 21.0 34.7 52.1#
 151 0.0 61.3 91.9#

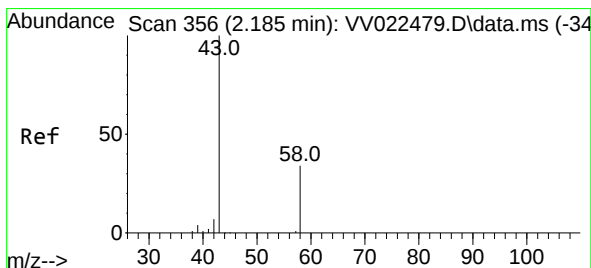
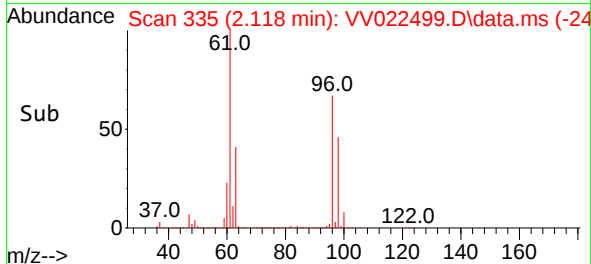
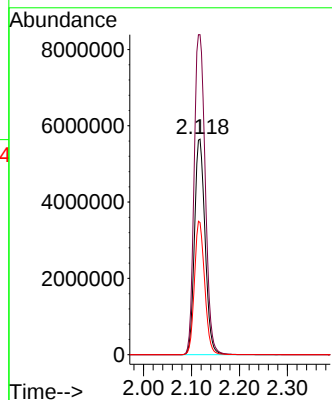
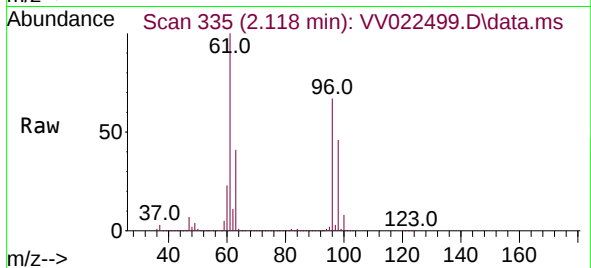




#12
1,1-Dichloroethene
Concen: 5089.210 ug/L
RT: 2.118 min Scan# 335
Delta R.T. 0.000 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

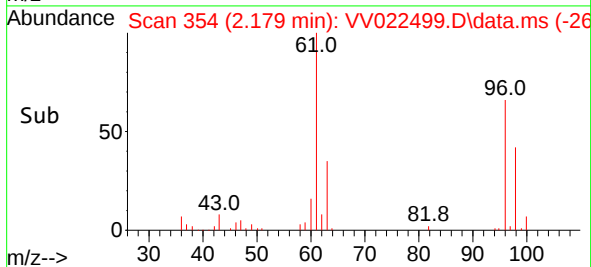
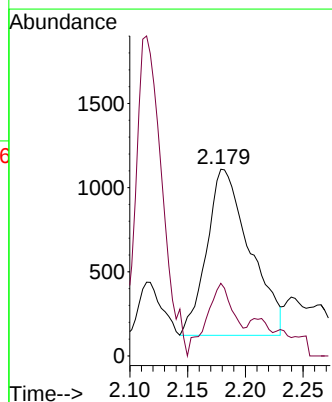
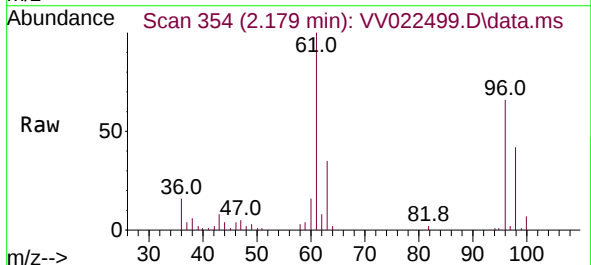
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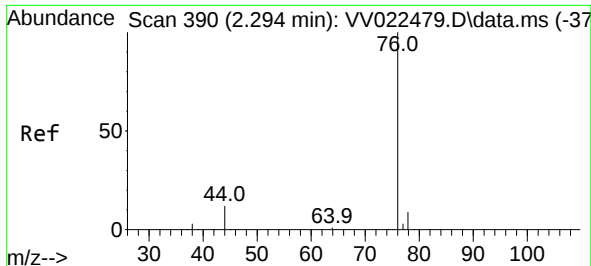
Tgt Ion: 96 Resp: 8625152
Ion Ratio Lower Upper
96 100
61 148.5 118.0 219.2
63 61.3 86.4 160.4#



#13
Acetone
Concen: 2.458 ug/L
RT: 2.179 min Scan# 354
Delta R.T. -0.006 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

Tgt Ion: 43 Resp: 2565
Ion Ratio Lower Upper
43 100
58 17.7 0.0 21.2

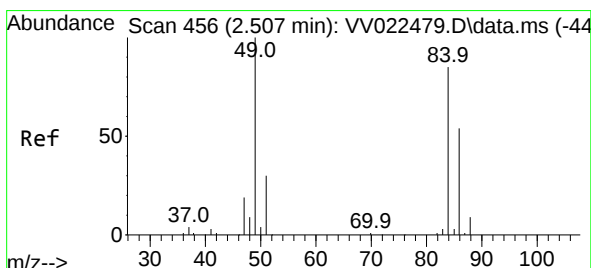
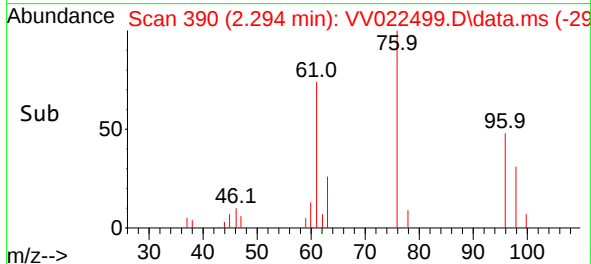
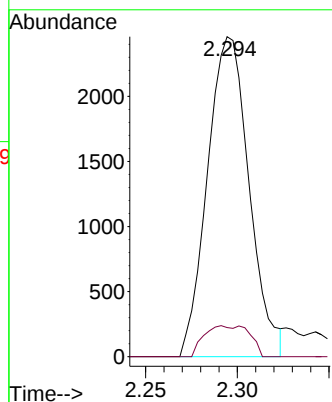
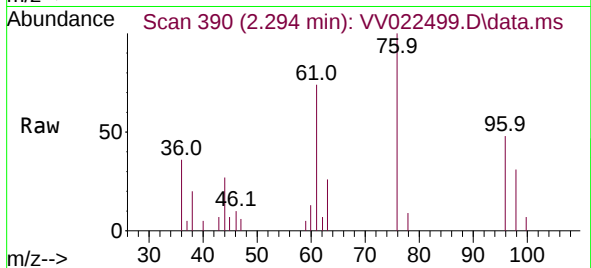




#14
Carbon disulfide
Concen: 0.759 ug/L
RT: 2.294 min Scan# 390
Delta R.T. 0.000 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

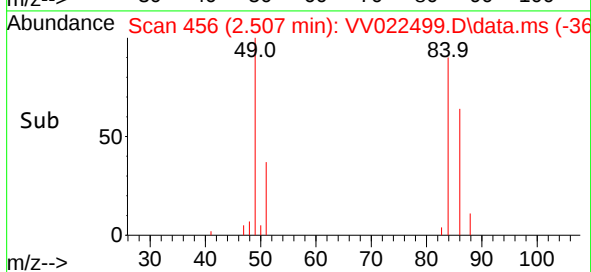
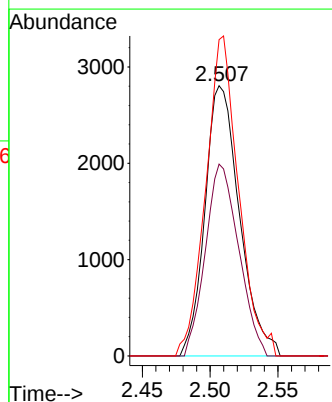
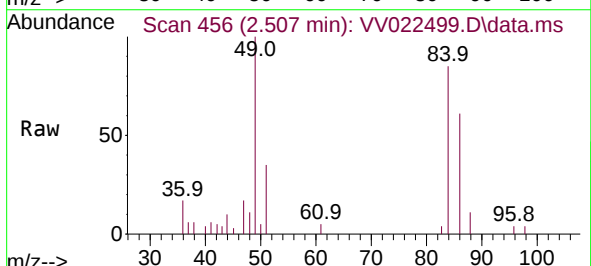
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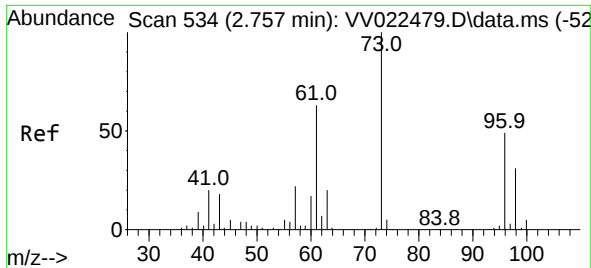
Tgt Ion: 76 Resp: 3884
Ion Ratio Lower Upper
76 100
78 9.1 7.6 11.4



#16
Methylene chloride
Concen: 2.342 ug/L
RT: 2.507 min Scan# 456
Delta R.T. 0.000 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

Tgt Ion: 84 Resp: 4987
Ion Ratio Lower Upper
84 100
86 71.0 45.6 84.6
49 117.1 82.7 153.7

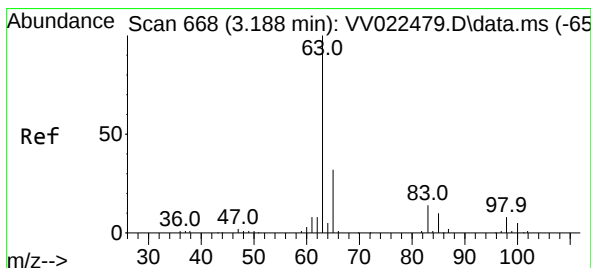
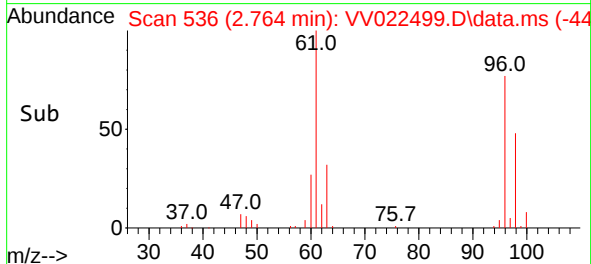
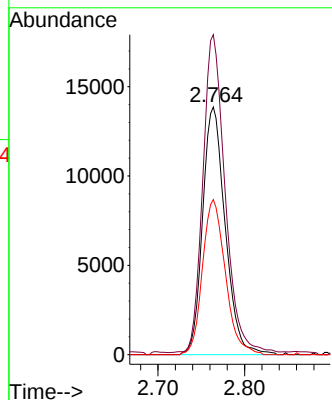
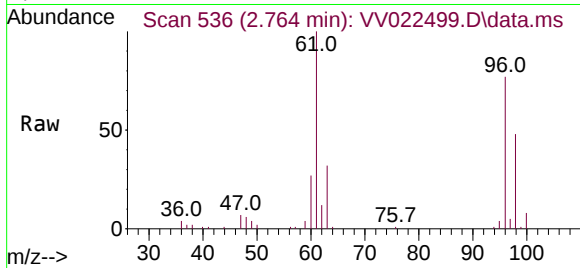




#17
trans-1,2-Dichloroethene
Concen: 13.537 ug/L
RT: 2.764 min Scan# 536
Delta R.T. 0.006 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

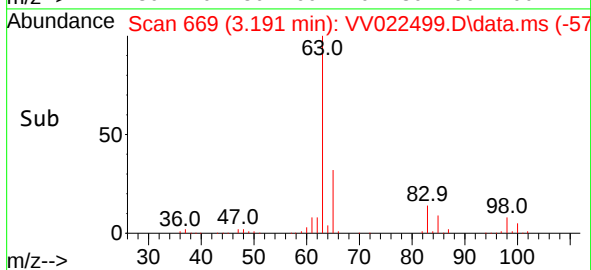
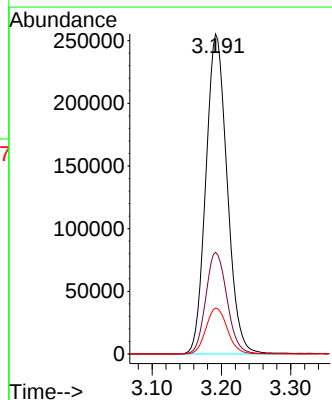
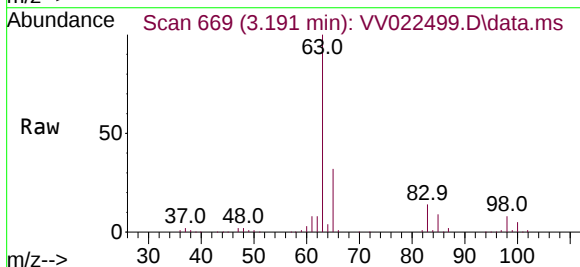
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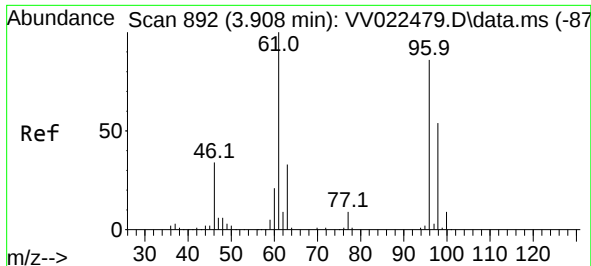
Tgt Ion:	96	Resp:	25185
Ion	Ratio	Lower	Upper
96	100		
61	129.2	90.8	168.6
98	62.6	44.0	81.8



#19
1,1-Dichloroethane
Concen: 165.022 ug/L
RT: 3.191 min Scan# 669
Delta R.T. 0.003 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

Tgt Ion:	63	Resp:	543237
Ion	Ratio	Lower	Upper
63	100		
65	31.8	22.9	42.5
83	14.4	9.4	17.4

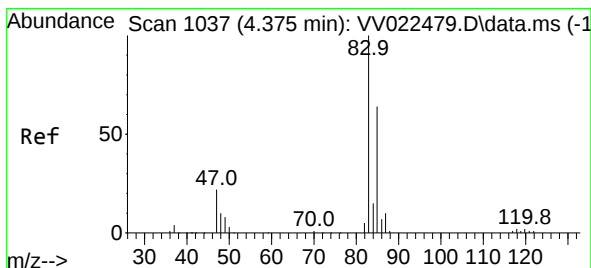
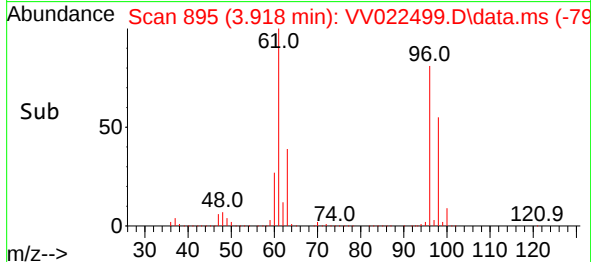
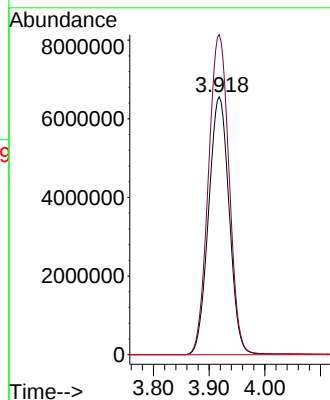
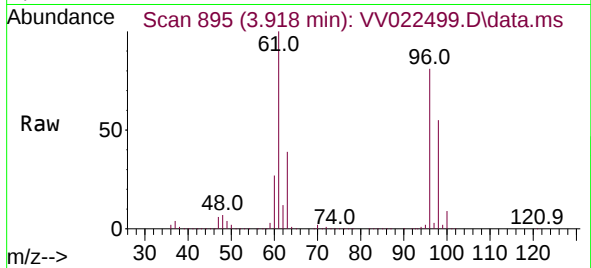




#20
cis-1,2-Dichloroethene
Concen: 8487.321 ug/L
RT: 3.918 min Scan# 895
Delta R.T. 0.010 min
Lab File: VV022499.D
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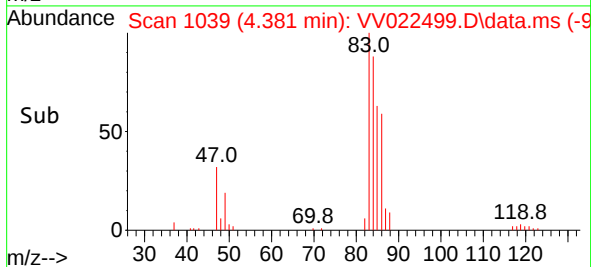
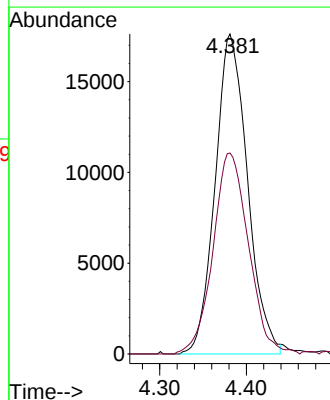
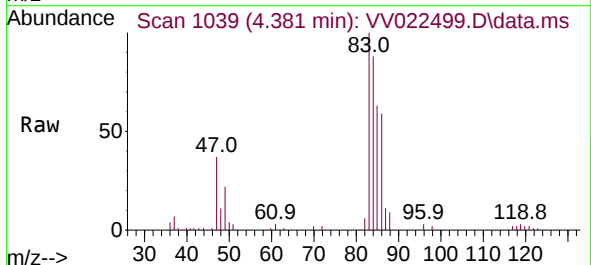
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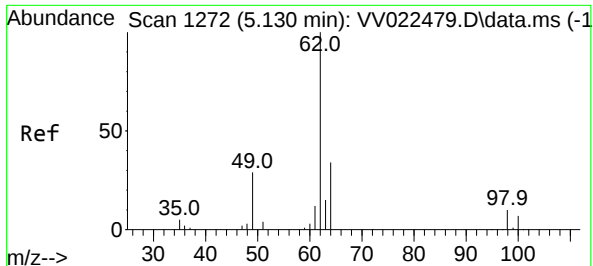
Tgt Ion: 96 Resp:16821965
Ion Ratio Lower Upper
96 100
61 124.1 81.9 152.1
68 0.0 0.0 0.0



#25
Chloroform
Concen: 13.809 ug/L
RT: 4.381 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

Tgt Ion: 83 Resp: 45743
Ion Ratio Lower Upper
83 100
85 62.8 45.8 85.0





#27

1,2-Dichloroethane

Concen: 17.472 ug/L

RT: 5.140 min Scan# 1275

Delta R.T. 0.010 min

Lab File: VV022499.D

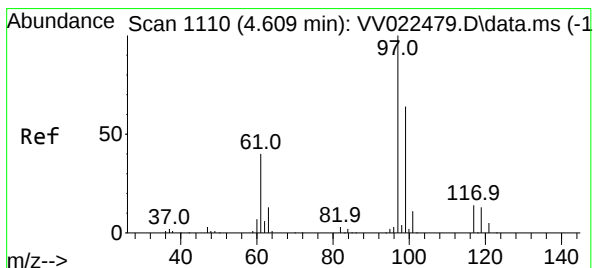
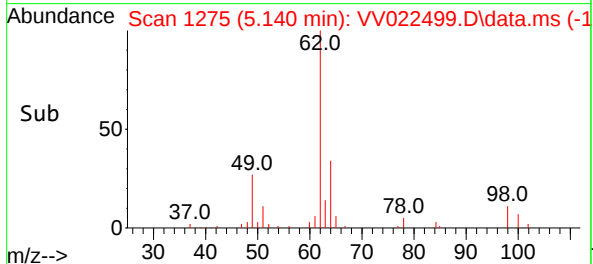
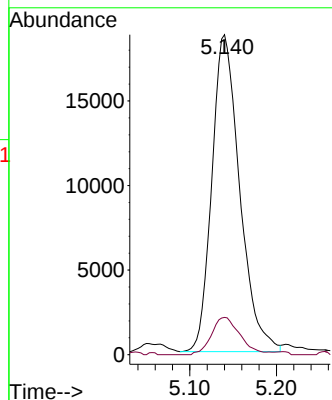
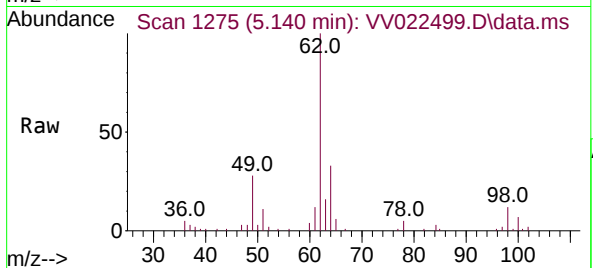
Acq: 02 Oct 2021 06:01

Tgt Ion: 62 Resp: 41909

Ion Ratio Lower Upper

62 100

98 11.7 9.0 13.4



#30

1,1,1-Trichloroethane

Concen: 5672.730 ug/L

RT: 4.622 min Scan# 1114

Delta R.T. 0.013 min

Lab File: VV022499.D

Acq: 02 Oct 2021 06:01

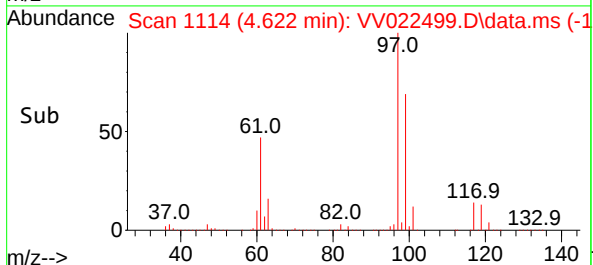
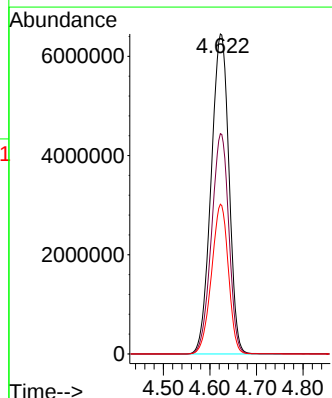
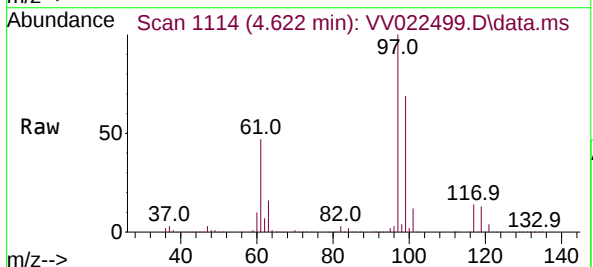
Tgt Ion: 97 Resp: 17152845

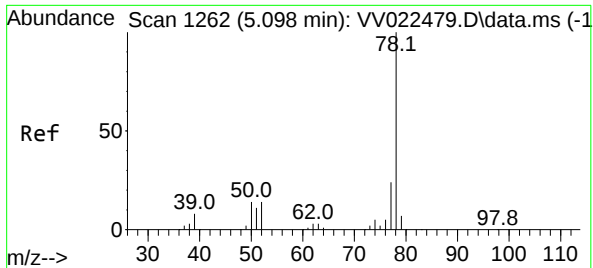
Ion Ratio Lower Upper

97 100

99 67.2 51.7 77.5

61 44.3 32.9 49.3

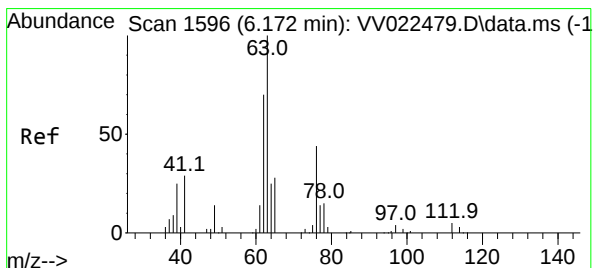
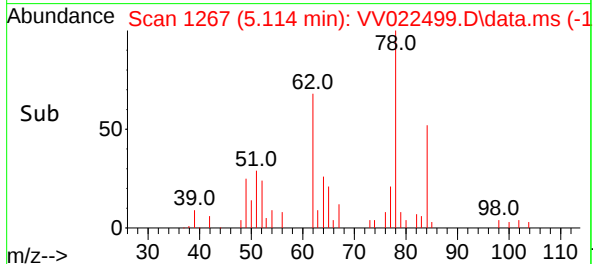
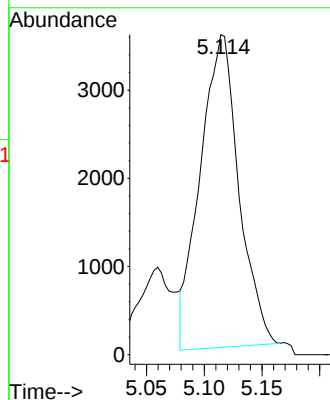
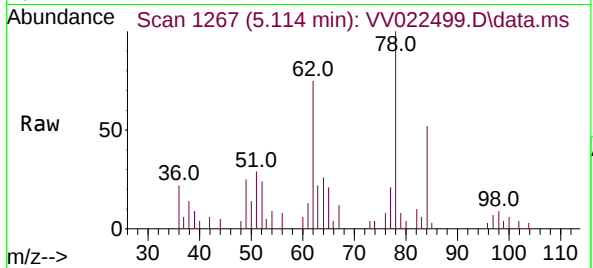




#33
Benzene
Concen: 1.106 ug/L
RT: 5.114 min Scan# 1267
Delta R.T. 0.016 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

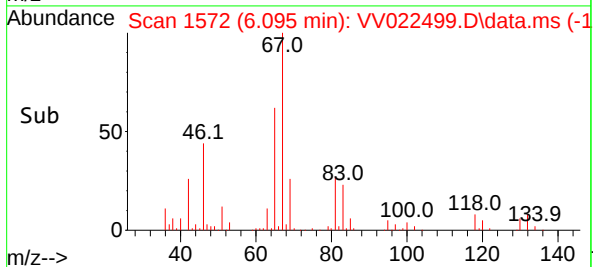
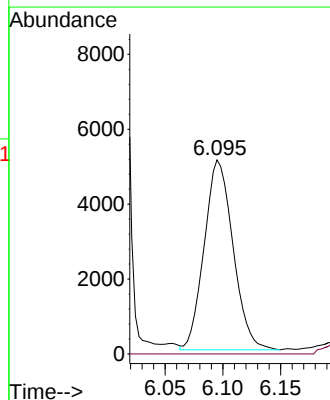
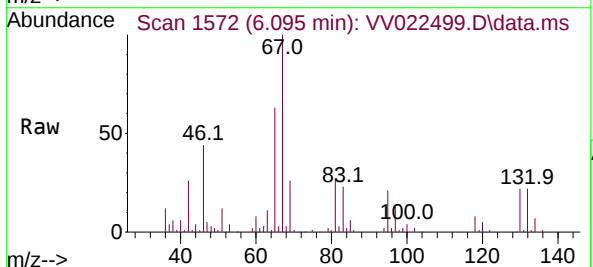
Instrument :
MSVOA_V
ClientSampled :
C0AJ8

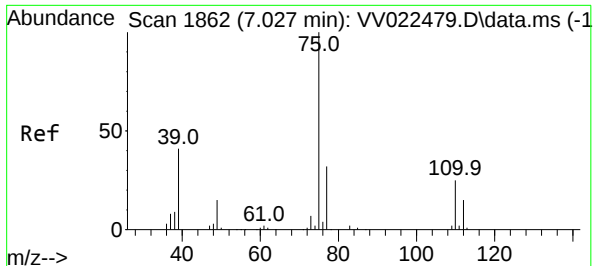
Tgt Ion: 78 Resp: 8264



#37
1,2-Dichloropropane
Concen: 4.616 ug/L
RT: 6.095 min Scan# 1572
Delta R.T. -0.077 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

Tgt Ion: 63 Resp: 8833
Ion Ratio Lower Upper
63 100
112 5.0 4.1 6.1

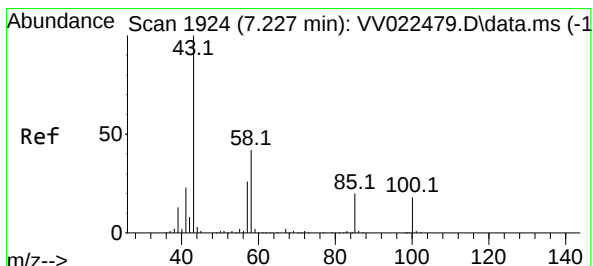
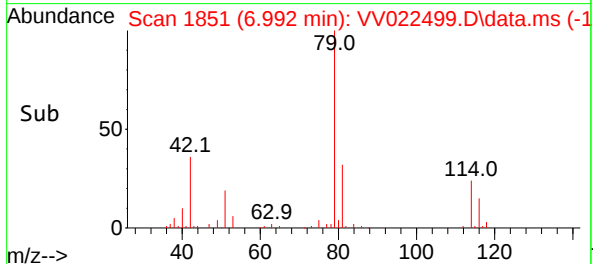
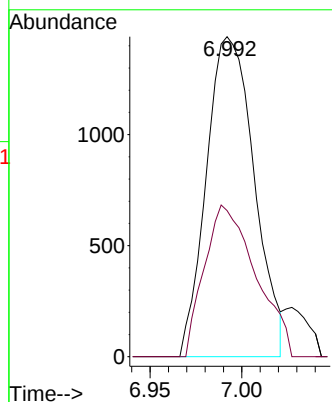
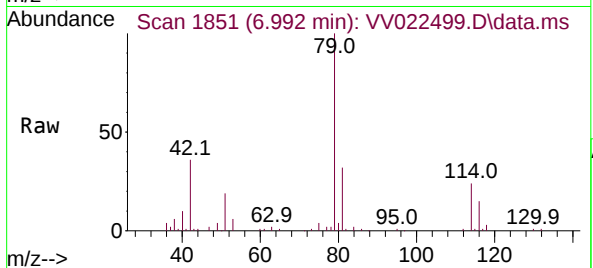




#39
 cis-1,3-Dichloropropene
 Concen: 0.909 ug/L
 RT: 6.992 min Scan# 1851
 Delta R.T. -0.035 min
 Lab File: VV022499.D
 Acq: 02 Oct 2021 06:01

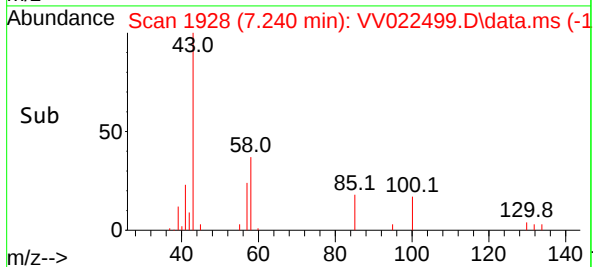
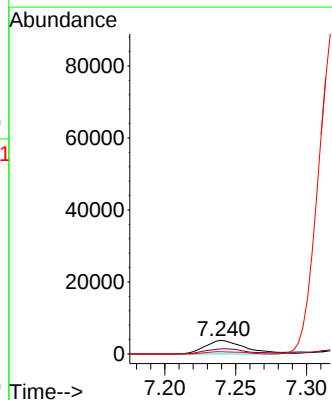
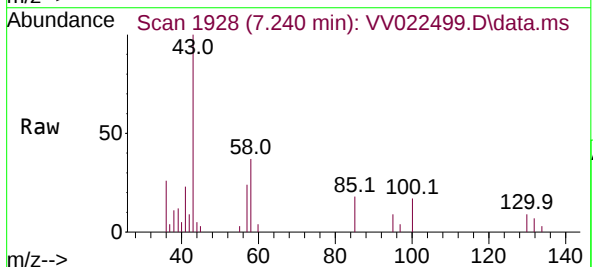
Instrument :
 MSVOA_V
 ClientSampleId :
 C0AJ8

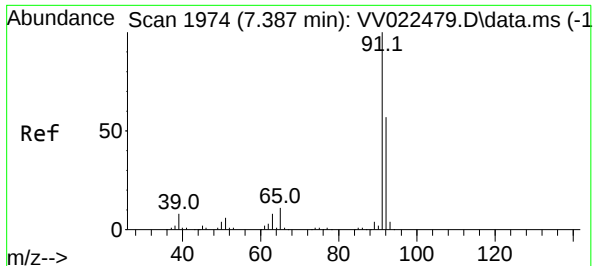
Tgt Ion: 75 Resp: 2616
 Ion Ratio Lower Upper
 75 100
 77 45.7 21.6 40.2#



#40
 4-Methyl-2-pentanone
 Concen: 2.710 ug/L
 RT: 7.240 min Scan# 1928
 Delta R.T. 0.013 min
 Lab File: VV022499.D
 Acq: 02 Oct 2021 06:01

Tgt Ion: 43 Resp: 7286
 Ion Ratio Lower Upper
 43 100
 58 42.2 32.5 48.7
 100 15.4 13.9 20.9





#42

Toluene

Concen: 39.930 ug/L

RT: 7.391 min Scan# 1975

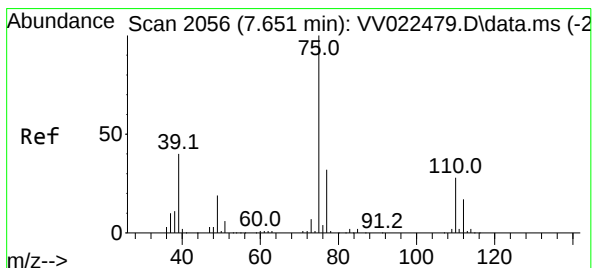
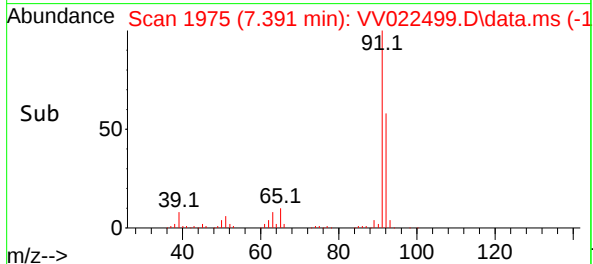
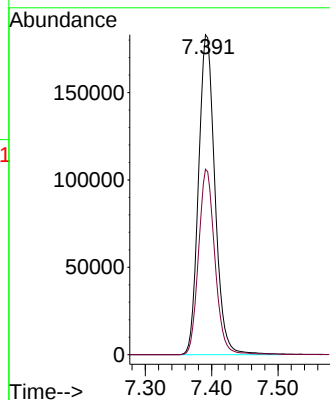
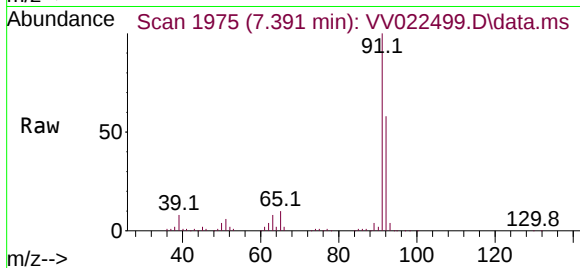
Delta R.T. 0.003 min

Lab File: VV022499.D

Acq: 02 Oct 2021 06:01

Tgt Ion: 91 Resp: 314363

Ion	Ratio	Lower	Upper
91	100		
92	57.9	40.6	75.4



#44

trans-1,3-Dichloropropene

Concen: 0.667 ug/L

RT: 7.625 min Scan# 2048

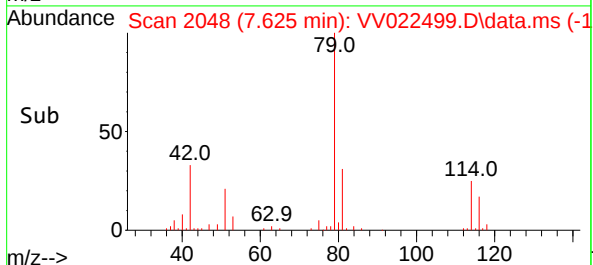
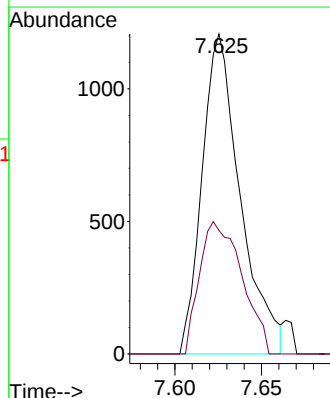
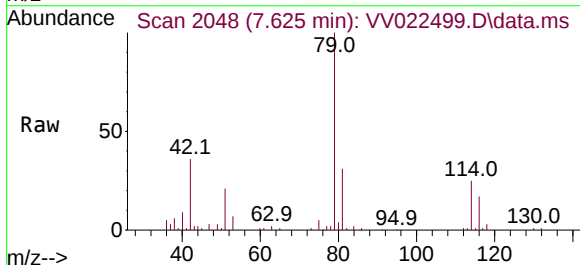
Delta R.T. -0.026 min

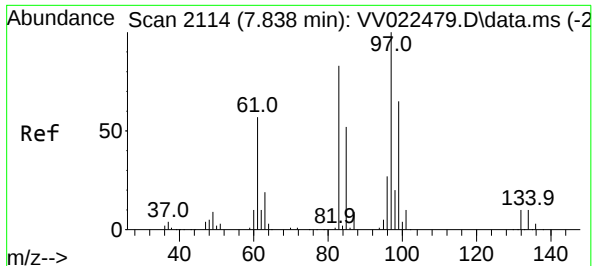
Lab File: VV022499.D

Acq: 02 Oct 2021 06:01

Tgt Ion: 75 Resp: 1849

Ion	Ratio	Lower	Upper
75	100		
77	38.6	22.0	40.8





#45

1,1,2-Trichloroethane

Concen: 88.098 ug/L

RT: 7.841 min Scan# 2115

Delta R.T. 0.003 min

Lab File: VV022499.D

Acq: 02 Oct 2021 06:01

Tgt Ion: 97 Resp: 174507

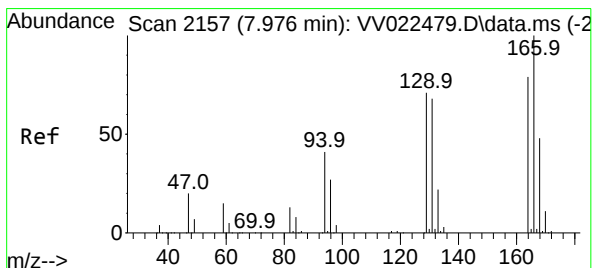
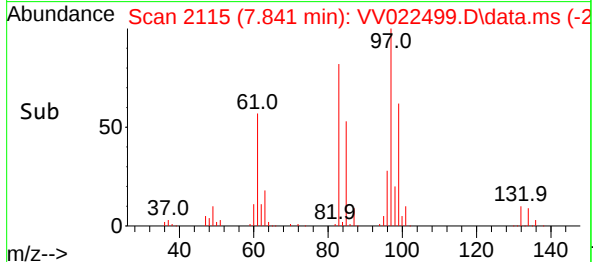
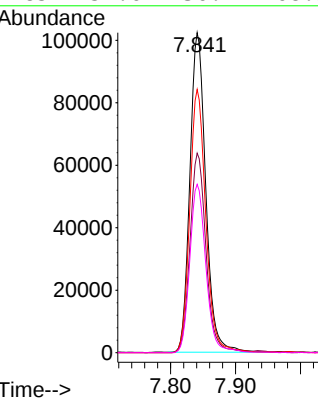
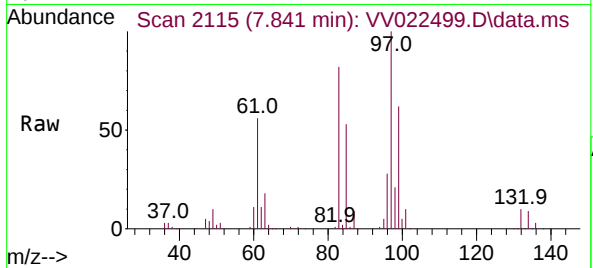
Ion Ratio Lower Upper

97 100

99 62.3 43.1 80.1

83 82.3 58.6 108.8

85 52.6 36.9 68.5



#46

Tetrachloroethene

Concen: 7.429 ug/L

RT: 7.979 min Scan# 2158

Delta R.T. 0.003 min

Lab File: VV022499.D

Acq: 02 Oct 2021 06:01

Tgt Ion: 164 Resp: 12136

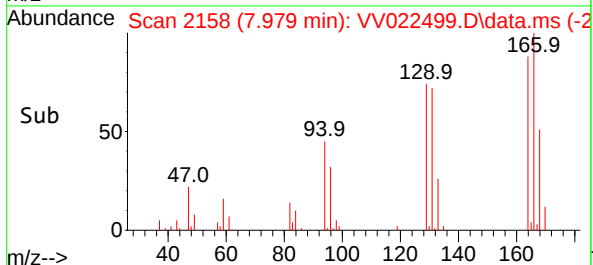
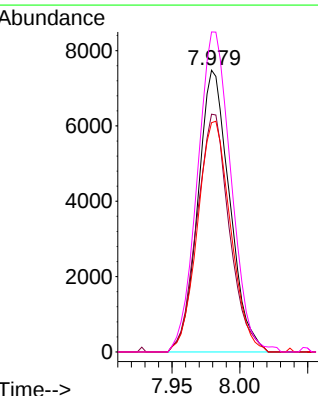
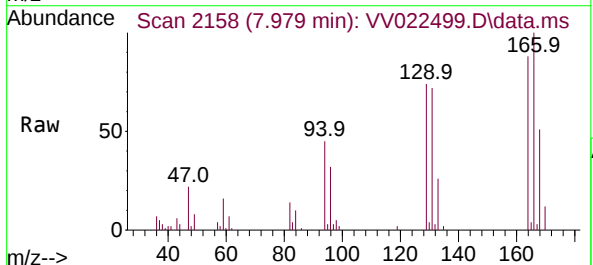
Ion Ratio Lower Upper

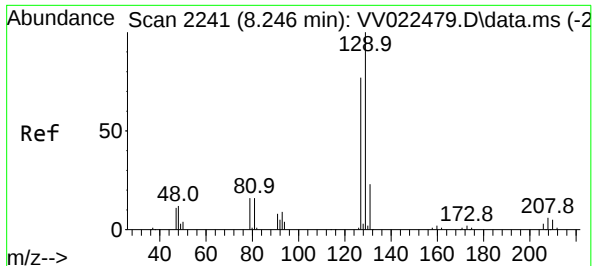
164 100

129 84.4 64.6 120.0

131 81.4 59.9 111.3

166 113.6 88.0 163.4





#49

Dibromochloromethane

Concen: 4.851 ug/L

RT: 7.979 min Scan# 2158

Delta R.T. -0.267 min

Lab File: VV022499.D

Acq: 02 Oct 2021 06:01

Tgt Ion: 129 Resp: 10399

Ion Ratio Lower Upper

129 100

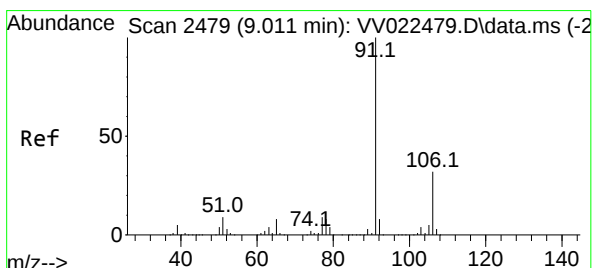
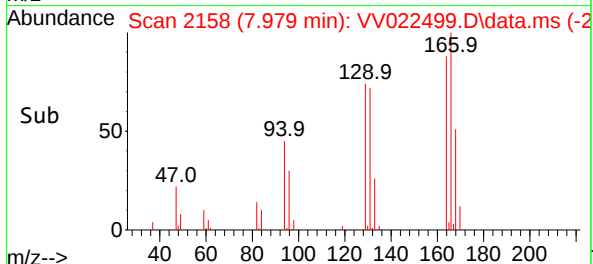
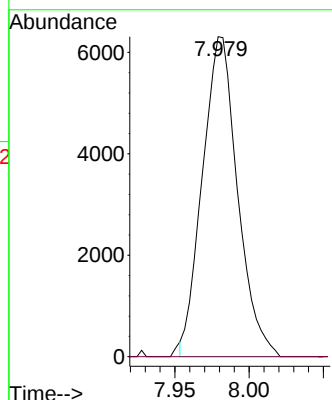
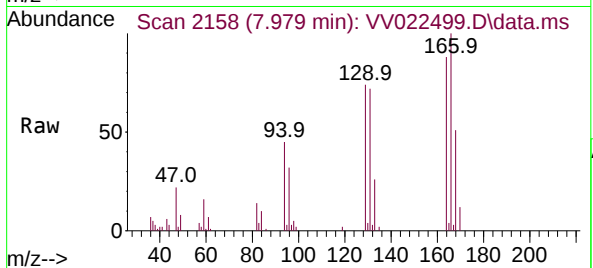
127 0.0 53.5 99.5#

Instrument :

MSVOA_V

ClientSampleId :

C0AJ8



#52

Ethylbenzene

Concen: 69.850 ug/L

RT: 9.014 min Scan# 2480

Delta R.T. 0.003 min

Lab File: VV022499.D

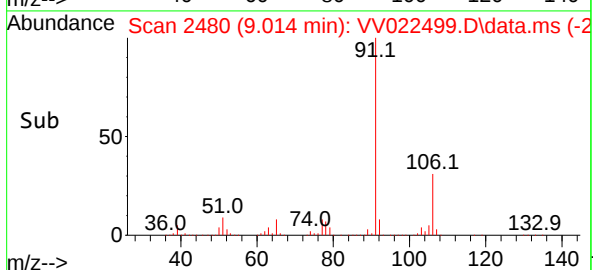
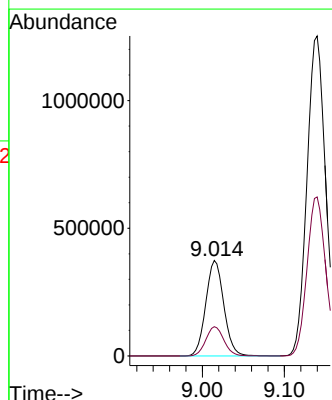
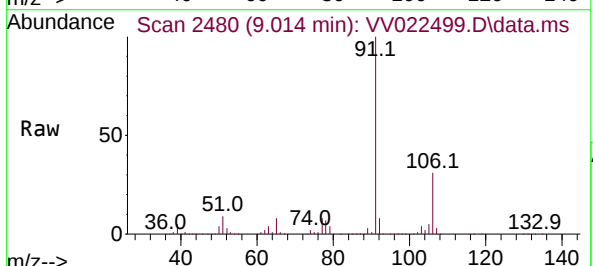
Acq: 02 Oct 2021 06:01

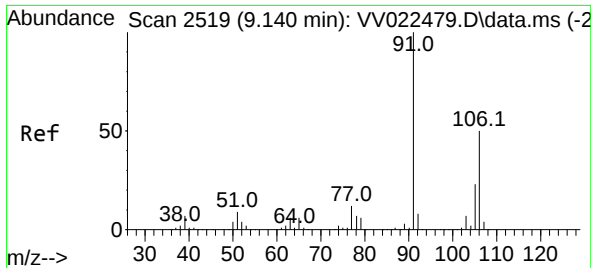
Tgt Ion: 91 Resp: 572339

Ion Ratio Lower Upper

91 100

106 30.7 22.0 41.0

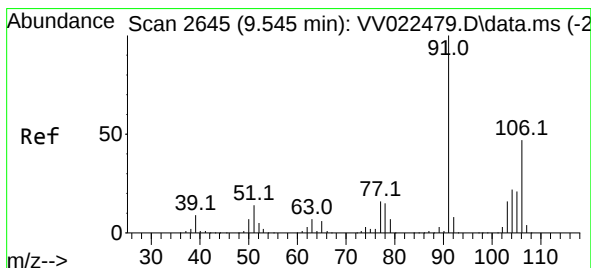
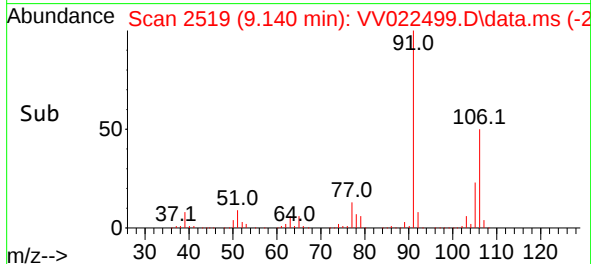
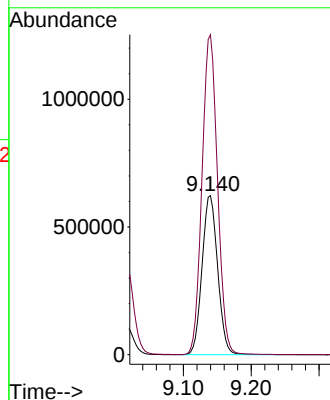
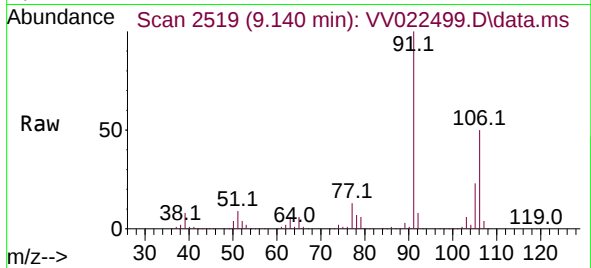




#53
m,p-Xylene
Concen: 305.389 ug/L
RT: 9.140 min Scan# 2519
Delta R.T. 0.000 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

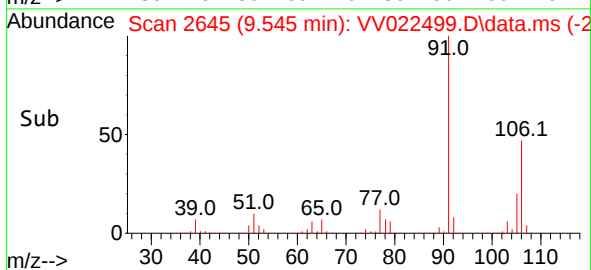
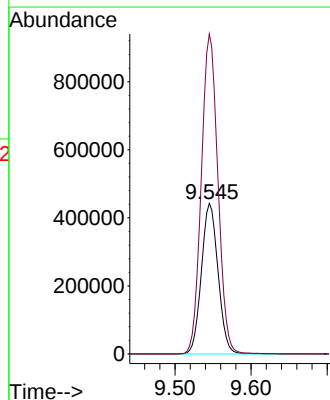
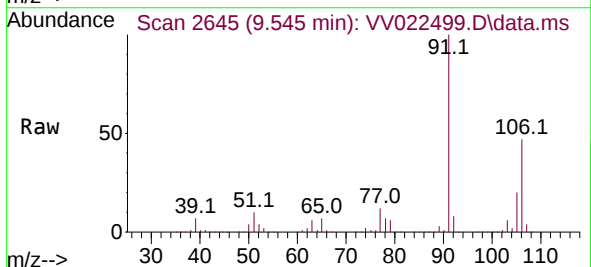
Instrument :
MSVOA_V
ClientSampleId :
C0AJ8

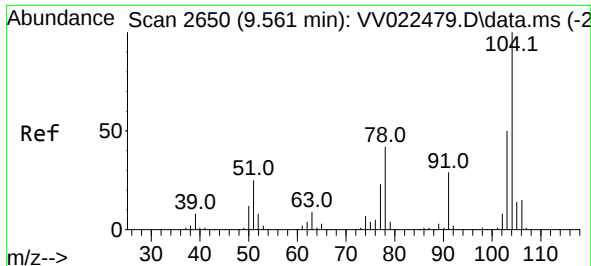
Tgt Ion:106 Resp: 991408
Ion Ratio Lower Upper
106 100
91 201.2 139.4 258.8



#54
o-Xylene
Concen: 212.429 ug/L
RT: 9.545 min Scan# 2645
Delta R.T. 0.000 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

Tgt Ion:106 Resp: 671884
Ion Ratio Lower Upper
106 100
91 212.6 148.7 276.1

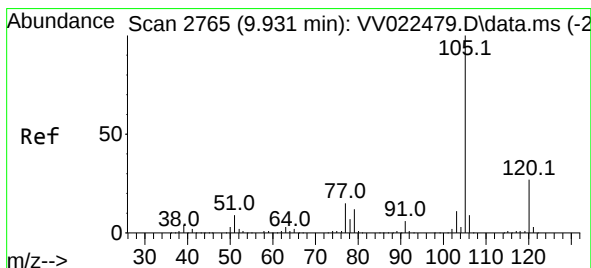
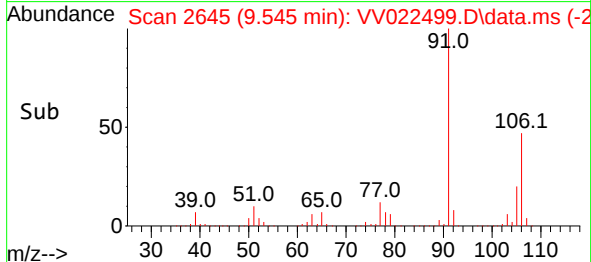
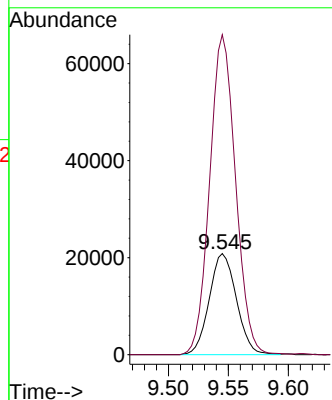
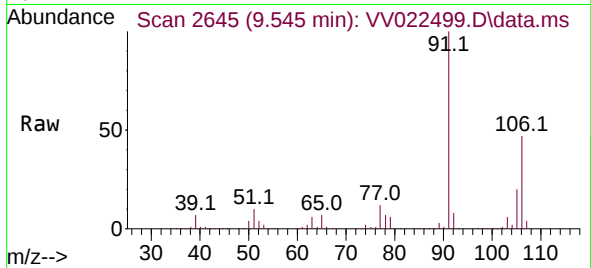




#55
Styrene
Concen: 6.053 ug/L
RT: 9.545 min Scan# 2645
Delta R.T. -0.016 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

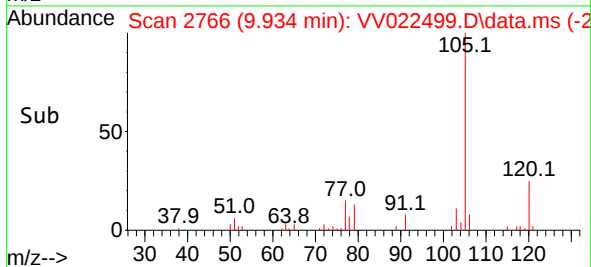
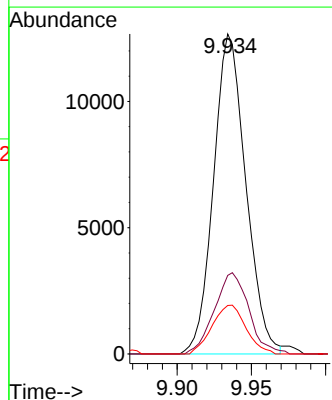
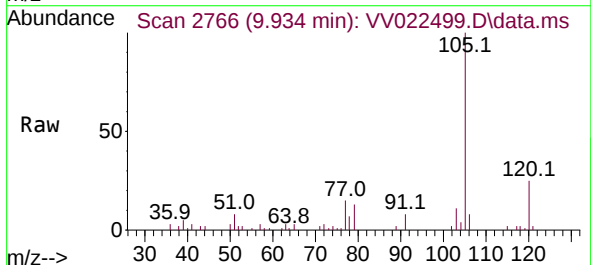
Instrument :
MSVOA_V
ClientSampleId :
C0AJ8

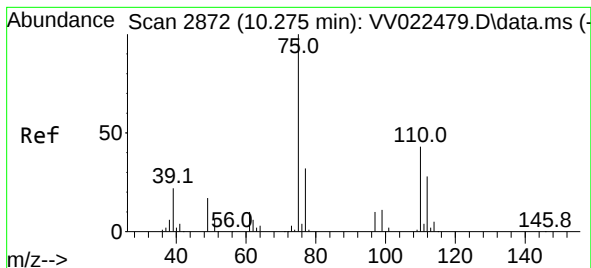
Tgt Ion:104 Resp: 32853
Ion Ratio Lower Upper
104 100
78 316.5 30.6 56.8#



#60
Isopropylbenzene
Concen: 2.382 ug/L
RT: 9.934 min Scan# 2766
Delta R.T. 0.003 min
Lab File: VV022499.D
Acq: 02 Oct 2021 06:01

Tgt Ion:105 Resp: 19170
Ion Ratio Lower Upper
105 100
120 27.1 21.6 32.4
77 16.0 12.0 18.0





#61

1,2,3-Trichloropropane

Concen: 1.800 ug/L

RT: 10.275 min Scan# 2872

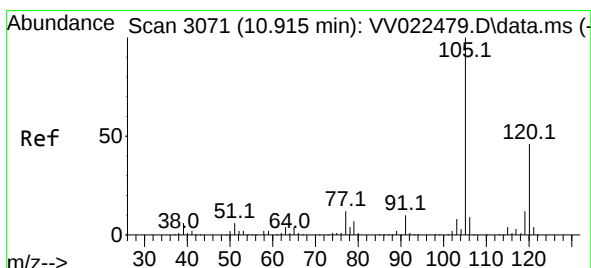
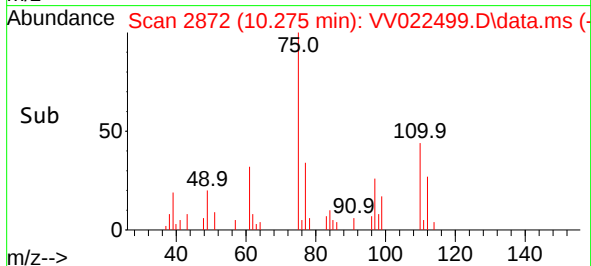
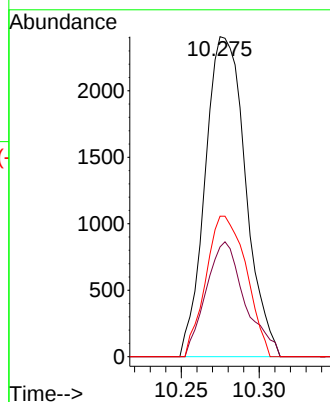
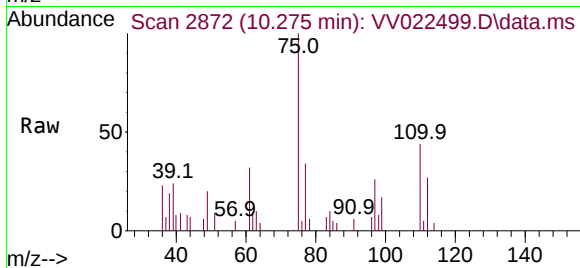
Delta R.T. 0.000 min

Lab File: VV022499.D

Acq: 02 Oct 2021 06:01

Tgt Ion: 75	Resp: 4331
Ion Ratio	Lower Upper
75	100
77	34.7 26.0 39.0
110	43.9 34.3 51.5

Instrument :
MSVOA_V
ClientSampleId :
C0AJ8



#63

1,2,4-Trimethylbenzene

Concen: 1.025 ug/L

RT: 10.918 min Scan# 3072

Delta R.T. 0.003 min

Lab File: VV022499.D

Acq: 02 Oct 2021 06:01

Tgt Ion: 105	Resp: 6907
Ion Ratio	Lower Upper
105	100
120	45.5 37.4 56.0

