

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW100121\
 Data File : VW022493.D
 Acq On : 02 Oct 2021 03:39
 Operator : SY/MD
 Sample : M4023-01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0AH6

Manual Integrations
 APPROVED

MMDadoda
 10/6/2021 2:24:41 PM

Quant Time: Oct 02 05:40:07 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	5.619	114	251815	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	250172	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	127905	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.301	65	256048	164.410	ug/L	0.00
Spiked Amount	50.000	Range 60 - 135	Recovery	=	328.820%#	
7) Chloroethane-d5	1.564	69	57718	47.148	ug/L	0.00
Spiked Amount	50.000	Range 70 - 130	Recovery	=	94.300%	
11) 1,1-Dichloroethene-d2	2.114	63	1345373	438.119	ug/L	0.00
Spiked Amount	50.000	Range 60 - 125	Recovery	=	876.240%#	
21) 2-Butanone-d5	3.918	46	83334	97.210	ug/L	0.03
Spiked Amount	100.000	Range 40 - 130	Recovery	=	97.210%	
24) Chloroform-d	4.349	84	125119	43.973	ug/L	0.00
Spiked Amount	50.000	Range 70 - 125	Recovery	=	87.940%	
26) 1,2-Dichloroethane-d4	5.034	65	75088	45.492	ug/L	0.00
Spiked Amount	50.000	Range 70 - 125	Recovery	=	90.980%	
32) Benzene-d6	5.050	84	251821	43.450	ug/L	0.00
Spiked Amount	50.000	Range 70 - 125	Recovery	=	86.900%	
36) 1,2-Dichloropropane-d6	6.072	67	78725	44.124	ug/L	0.00
Spiked Amount	50.000	Range 70 - 120	Recovery	=	88.240%	
41) Toluene-d8	7.317	98	231667	43.577	ug/L	0.00
Spiked Amount	50.000	Range 80 - 120	Recovery	=	87.160%	
43) trans-1,3-Dichloroprop...	7.622	79	35853	42.472	ug/L	0.00
Spiked Amount	50.000	Range 60 - 125	Recovery	=	84.940%	
47) 2-Hexanone-d5	8.091	63	67126	90.820	ug/L	0.00
Spiked Amount	100.000	Range 45 - 130	Recovery	=	90.820%	
56) 1,1,2,2-Tetrachloroeth...	10.217	84	108157	43.594	ug/L	0.00
Spiked Amount	50.000	Range 65 - 120	Recovery	=	87.180%	
66) 1,2-Dichlorobenzene-d4	11.625	152	94028	45.080	ug/L	0.00
Spiked Amount	50.000	Range 80 - 120	Recovery	=	90.160%	
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.297	62	15786966m	6650.608	ug/L	
12) 1,1-Dichloroethene	2.117	96	2311480	1314.076	ug/L #	72
13) Acetone	2.182	43	35518m	32.799	ug/L	
14) Carbon disulfide	2.297	76	4124	0.776	ug/L	100
15) Methyl Acetate	2.439	43	3844	1.946	ug/L #	82
16) Methylene chloride	2.506	84	47279	21.393	ug/L	98
17) trans-1,2-Dichloroethene	2.760	96	205869	106.616	ug/L	98
19) 1,1-Dichloroethane	3.188	63	3633515	1063.476	ug/L	99
20) cis-1,2-Dichloroethene	3.912	96	25905956m	12593.322	ug/L	
27) 1,2-Dichloroethane	5.133	62	66516	26.718	ug/L	97
30) 1,1,1-Trichloroethane	4.612	97	5086718	1627.687	ug/L	99
33) Benzene	5.104	78	20872	2.702	ug/L	100
34) Trichloroethene	5.915	95	2220578	1101.008	ug/L	99
40) 4-Methyl-2-pentanone	7.233	43	10533	3.790	ug/L #	87
42) Toluene	7.387	91	416845	51.229	ug/L	99
45) 1,1,2-Trichloroethane	7.841	97	42331	20.677	ug/L	97
52) Ethylbenzene	9.014	91	1119277	132.168	ug/L	100
53) m,p-Xylene	9.140	106	1895740	565.011	ug/L	100
54) o-Xylene	9.545	106	865291	264.703	ug/L	98

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 QLast Update : Sat Oct 02 01:27:14 2021
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) Isopropylbenzene	9.934	105	31289	3.845	ug/L	98
61) 1,2,3-Trichloropropane	10.278	75	4471	1.838	ug/L	93
62) 1,3,5-Trimethylbenzene	10.541	105	7863	1.148	ug/L	97
63) 1,2,4-Trimethylbenzene	10.918	105	15877	2.331	ug/L	96

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

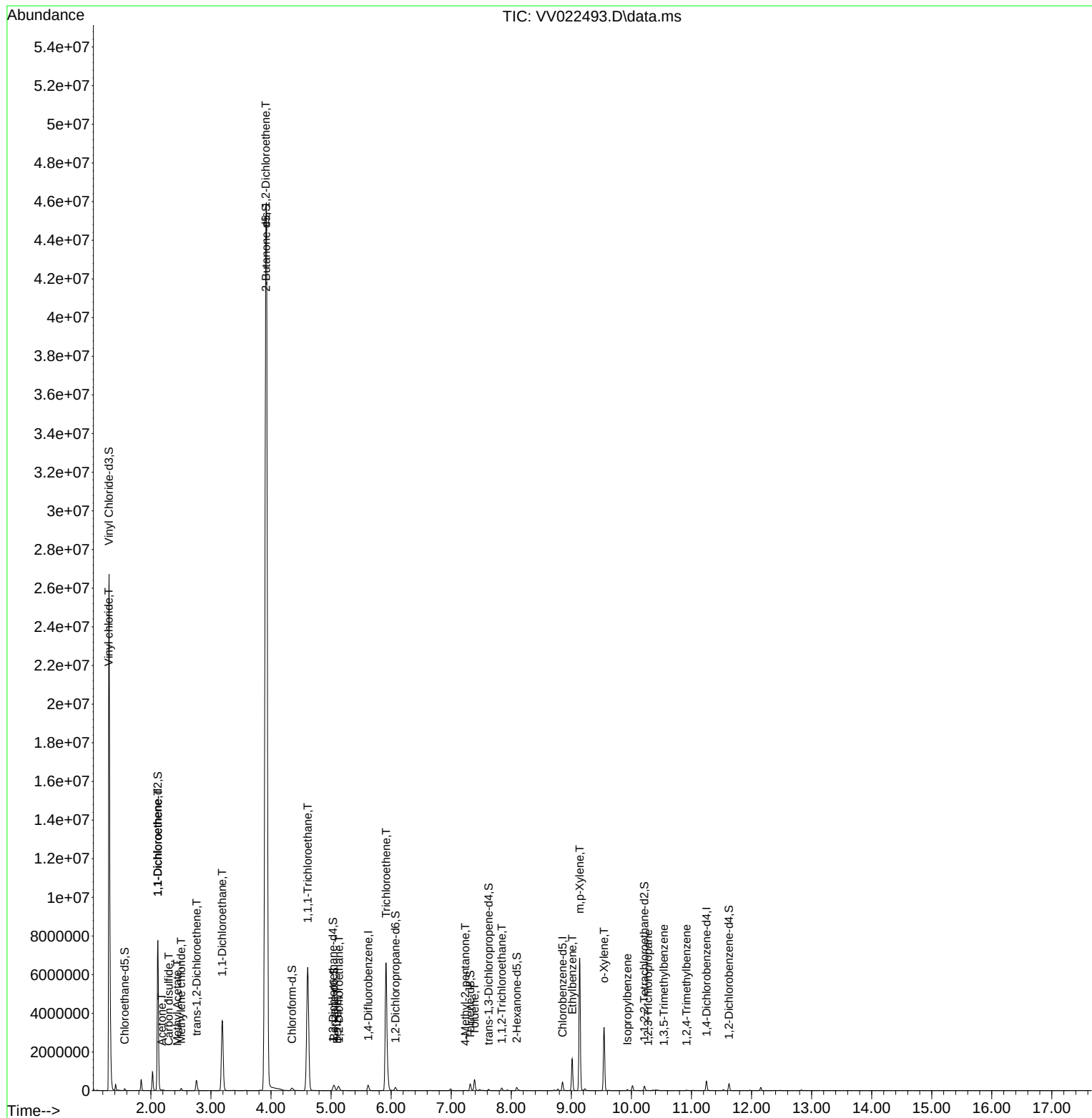
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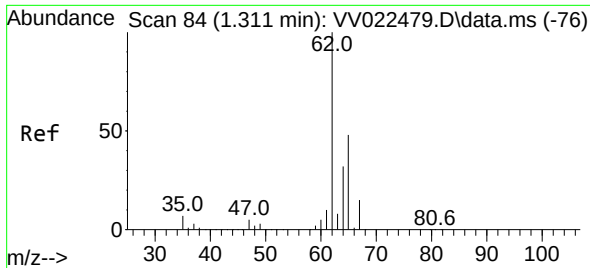
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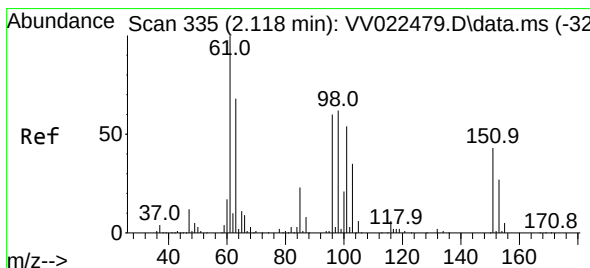
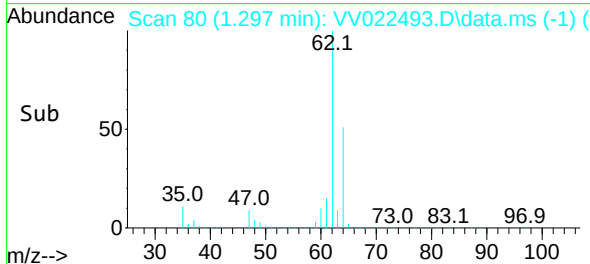
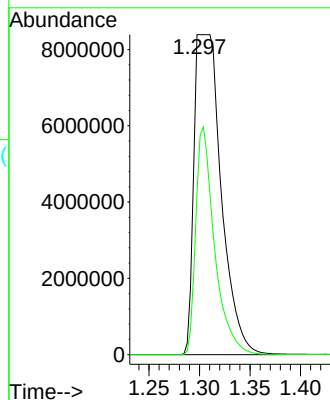
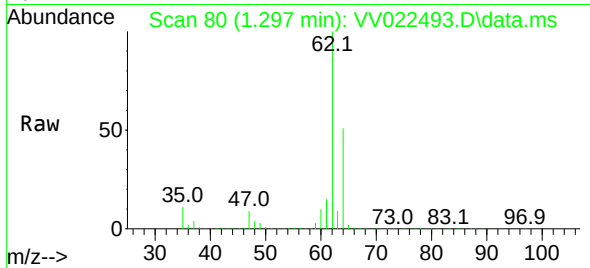
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 Vinyl chloride
 Concen: 6650.608 ug/L m
 RT: 1.297 min Scan# 80
 Delta R.T. -0.013 min
 Lab File: VV022493.D
 Acq: 02 Oct 2021 03:39

Tgt Ion: 62 Resp: 15786966
 Ion Ratio Lower Upper
 62 100
 64 50.7 22.5 41.9#

Instrument :
 MSVOA_V
 ClientSampled :
 C0AH6

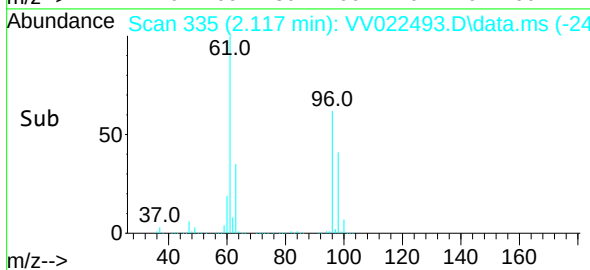
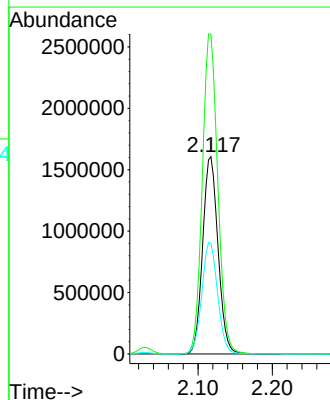
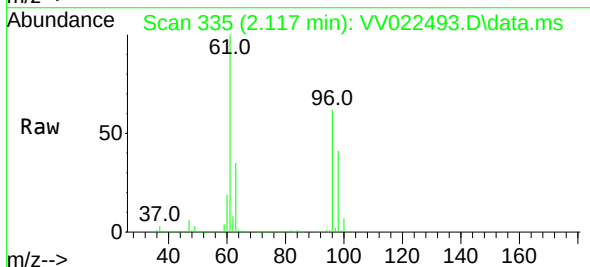
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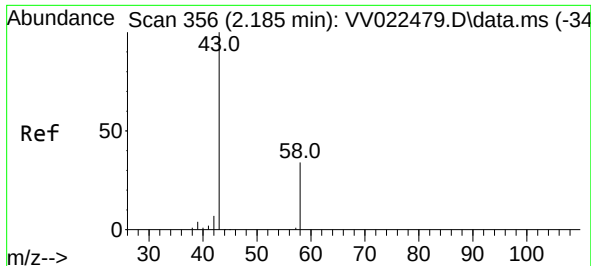
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#12
 1,1-Dichloroethene
 Concen: 1314.076 ug/L
 RT: 2.117 min Scan# 335
 Delta R.T. -0.000 min
 Lab File: VV022493.D
 Acq: 02 Oct 2021 03:39

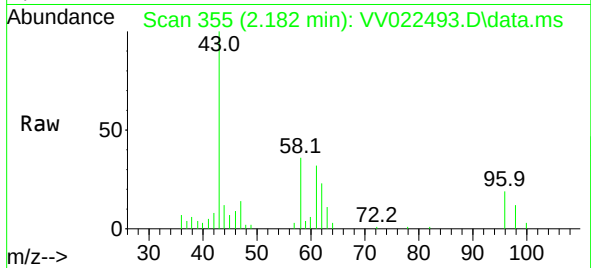
Tgt Ion: 96 Resp: 2311480
 Ion Ratio Lower Upper
 96 100
 61 162.2 118.0 219.2
 63 56.0 86.4 160.4#





#13
Acetone
Concen: 32.799 ug/L m
RT: 2.182 min Scan# 355
Delta R.T. -0.003 min
Lab File: VV022493.D
Acq: 02 Oct 2021 03:39

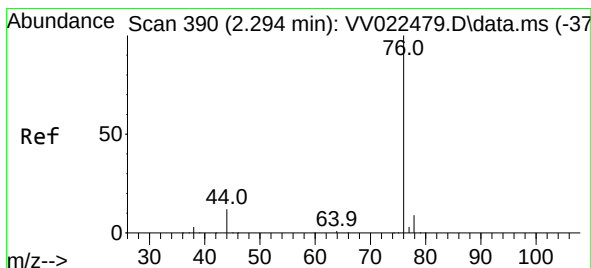
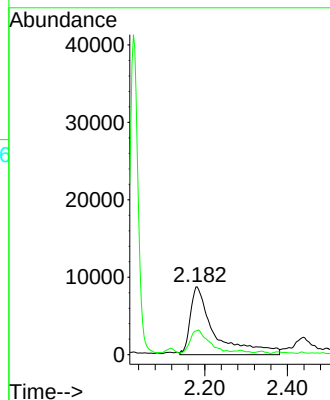
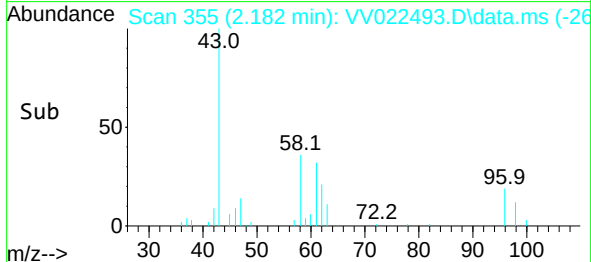
Instrument :
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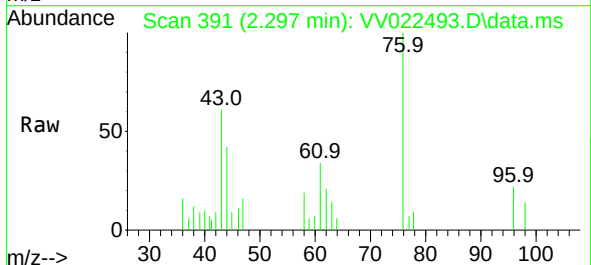
Tgt Ion: 43 Resp: 35518
Ion Ratio Lower Upper
43 100
58 0.4 0.0 21.2

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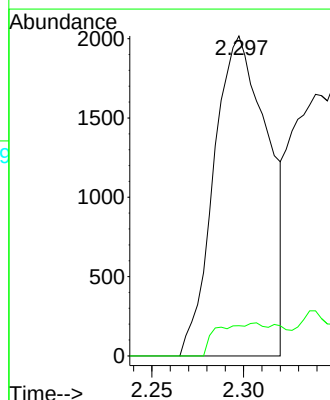
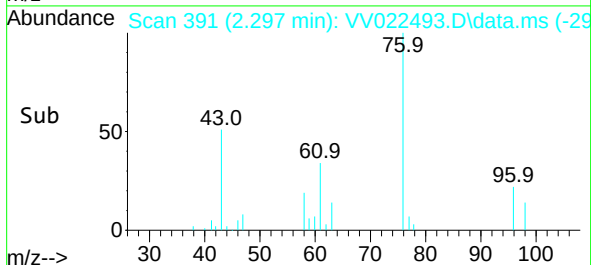
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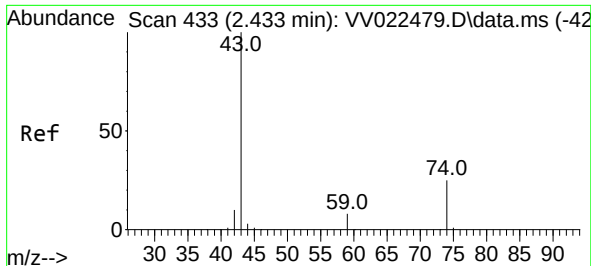


#14
Carbon disulfide
Concen: 0.776 ug/L
RT: 2.297 min Scan# 391
Delta R.T. 0.003 min
Lab File: VV022493.D
Acq: 02 Oct 2021 03:39



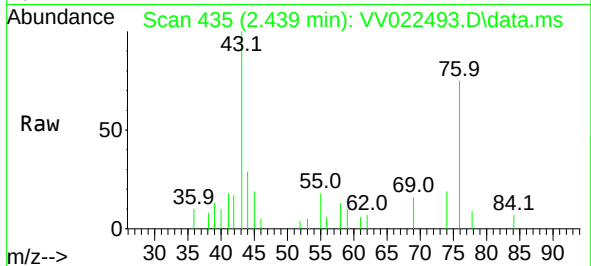
Tgt Ion: 76 Resp: 4124
Ion Ratio Lower Upper
76 100
78 9.4 7.6 11.4





#15
Methyl Acetate
Concen: 1.946 ug/L
RT: 2.439 min Scan# 435
Delta R.T. 0.006 min
Lab File: VV022493.D
Acq: 02 Oct 2021 03:39

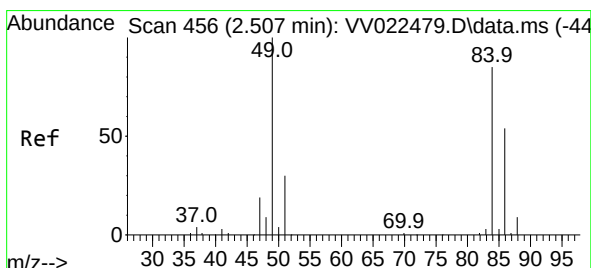
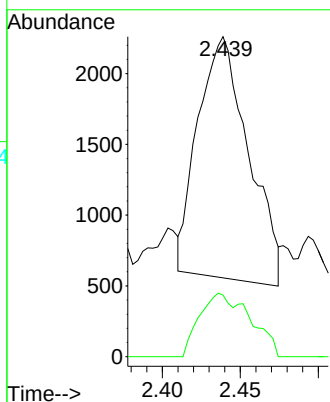
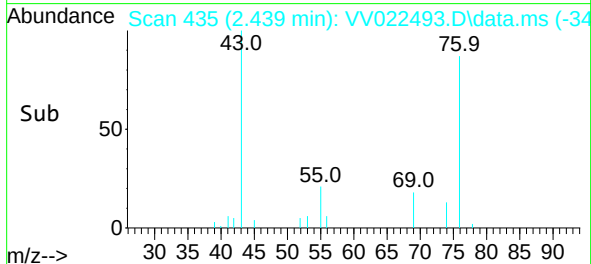
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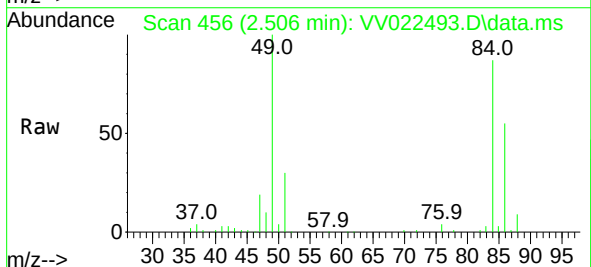
Tgt Ion: 43 Resp: 3844
Ion Ratio Lower Upper
43 100
74 16.6 20.6 30.8#

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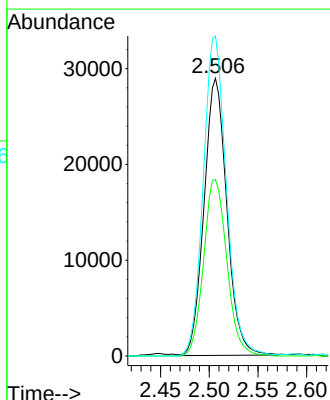
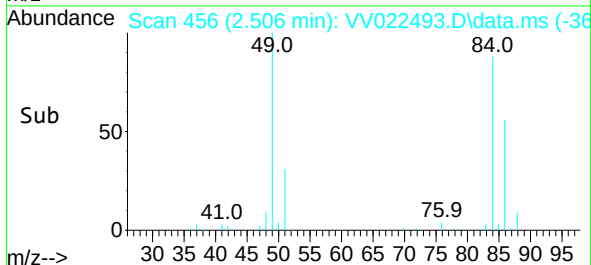
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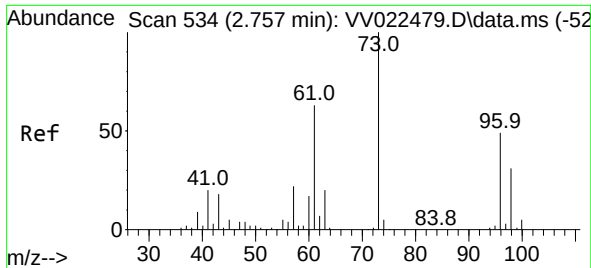


#16
Methylene chloride
Concen: 21.393 ug/L
RT: 2.506 min Scan# 456
Delta R.T. -0.000 min
Lab File: VV022493.D
Acq: 02 Oct 2021 03:39

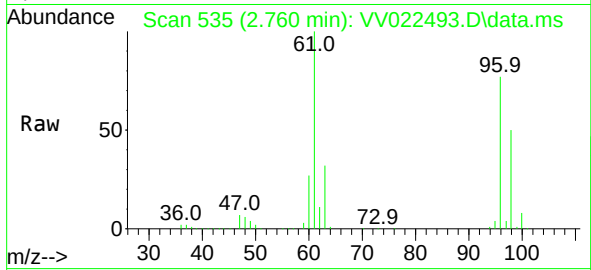


Tgt Ion: 84 Resp: 47279
Ion Ratio Lower Upper
84 100
86 63.5 45.6 84.6
49 115.2 82.7 153.7

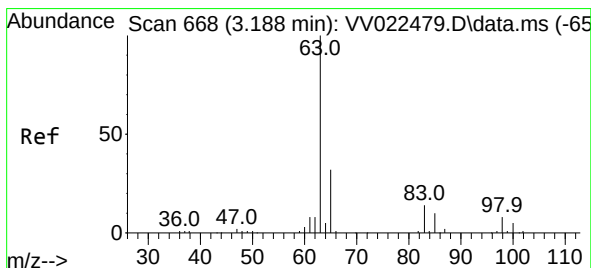
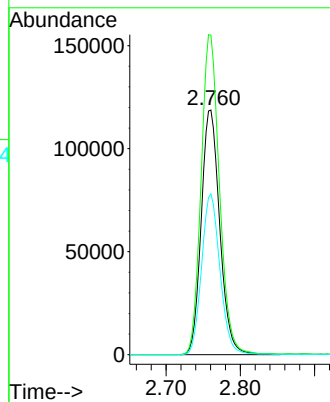
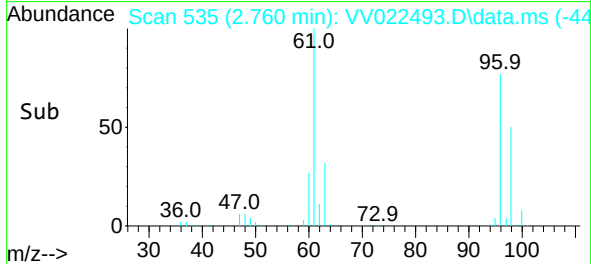




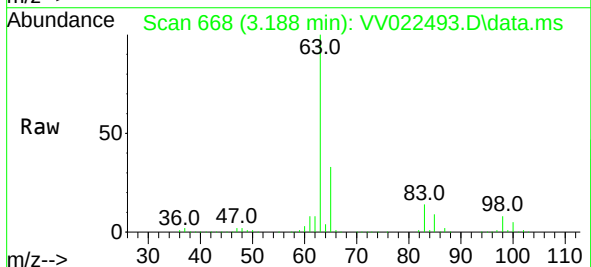
#17
trans-1,2-Dichloroethene
Concen: 106.616 ug/L
RT: 2.760 min Scan# 535
Delta R.T. 0.003 min
Lab File: VV022493.D
Acq: 02 Oct 2021 03:39



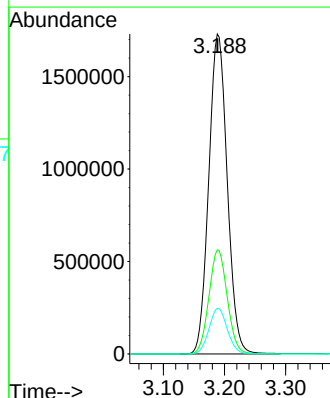
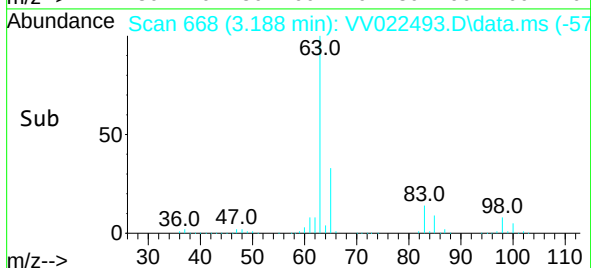
Tgt Ion: 96 Resp: 205869
Ion Ratio Lower Upper
96 100
61 130.6 90.8 168.6
98 65.7 44.0 81.8



#19
1,1-Dichloroethane
Concen: 1063.476 ug/L
RT: 3.188 min Scan# 668
Delta R.T. -0.000 min
Lab File: VV022493.D
Acq: 02 Oct 2021 03:39



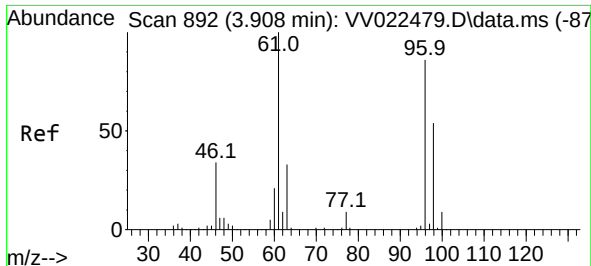
Tgt Ion: 63 Resp: 3633515
Ion Ratio Lower Upper
63 100
65 32.6 22.9 42.5
83 14.3 9.4 17.4



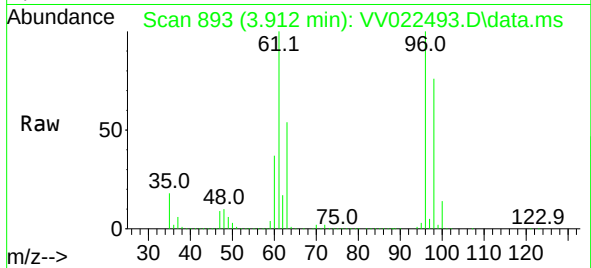
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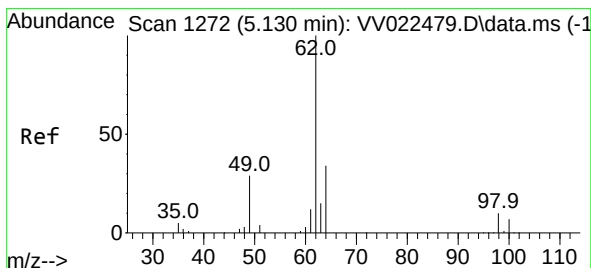
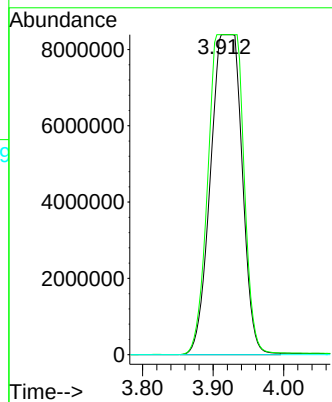
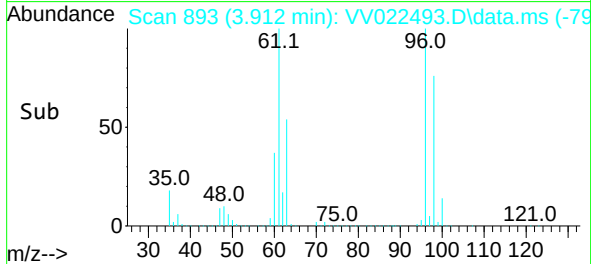


#20
cis-1,2-Dichloroethene
Concen: 12593.322 ug/L m
RT: 3.912 min Scan# 893
Delta R.T. 0.003 min
Lab File: VV022493.D
Acq: 02 Oct 2021 03:39

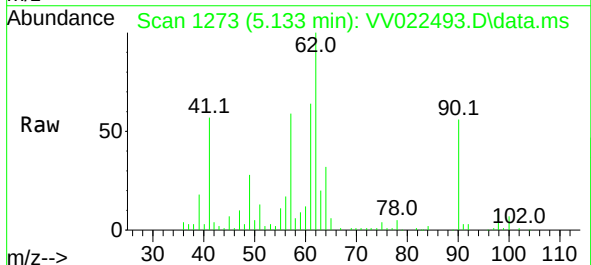


Tgt Ion: 96 Resp: 25905956

Ion	Ratio	Lower	Upper
96	100		
61	100.0	81.9	152.1
68	0.0	0.0	0.0

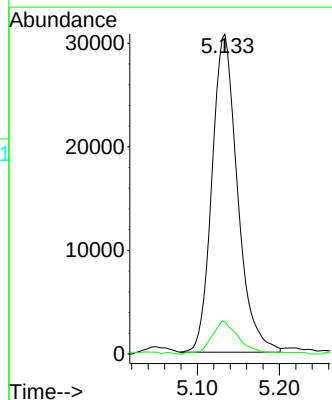
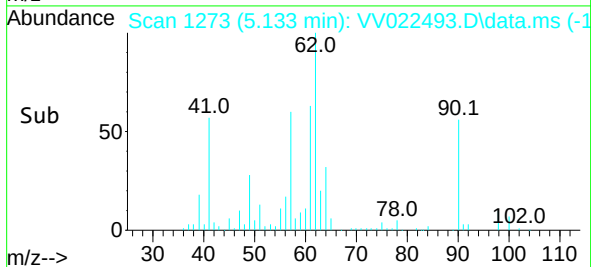


#27
1,2-Dichloroethane
Concen: 26.718 ug/L
RT: 5.133 min Scan# 1273
Delta R.T. 0.003 min
Lab File: VV022493.D
Acq: 02 Oct 2021 03:39



Tgt Ion: 62 Resp: 66516

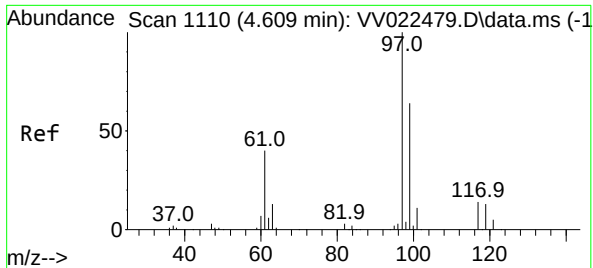
Ion	Ratio	Lower	Upper
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98	10.1	9.0	13.4



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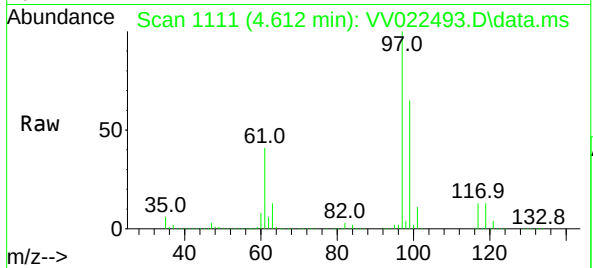
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#30
1,1,1-Trichloroethane
Concen: 1627.687 ug/L
RT: 4.612 min Scan# 1111
Delta R.T. 0.003 min
Lab File: VV022493.D
Acq: 02 Oct 2021 03:39

Instrument :
MSVOA_V
ClientSampled :
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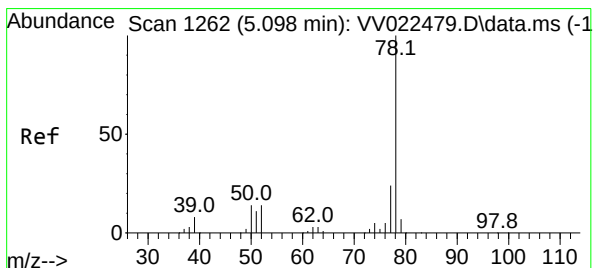
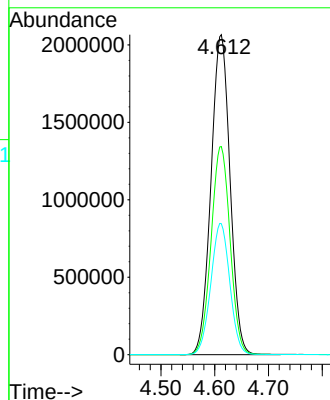
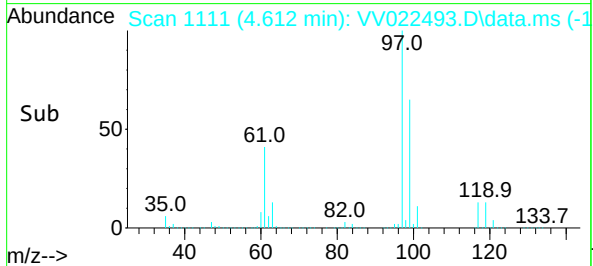


Tgt Ion: 97 Resp: 5086718

Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.7	77.5
61	40.7	32.9	49.3

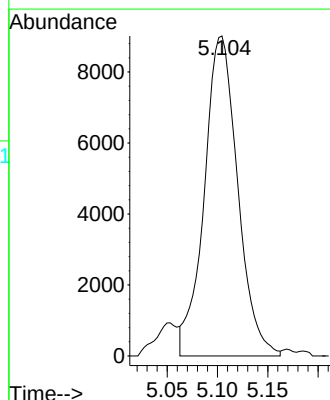
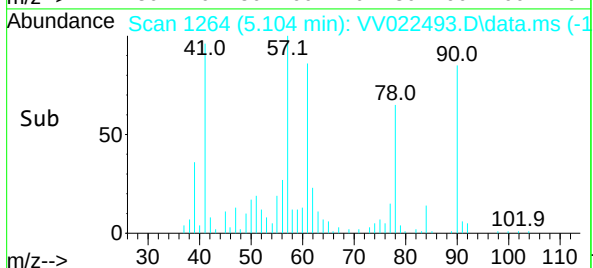
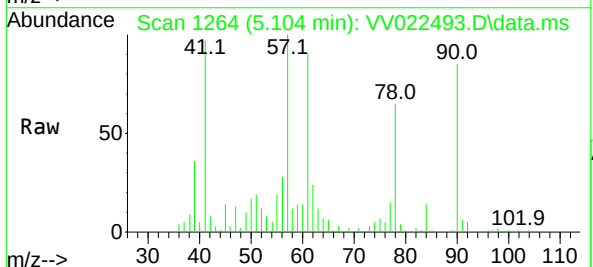
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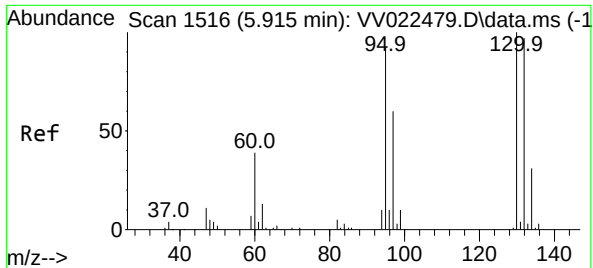
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#33
Benzene
Concen: 2.702 ug/L
RT: 5.104 min Scan# 1264
Delta R.T. 0.006 min
Lab File: VV022493.D
Acq: 02 Oct 2021 03:39

Tgt Ion: 78 Resp: 20872





#34

Trichloroethene

Concen: 1101.008 ug/L

RT: 5.915 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VV022493.D

Acq: 02 Oct 2021 03:39

Tgt Ion: 95 Resp: 2220578

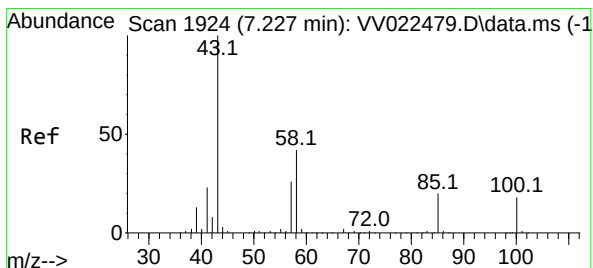
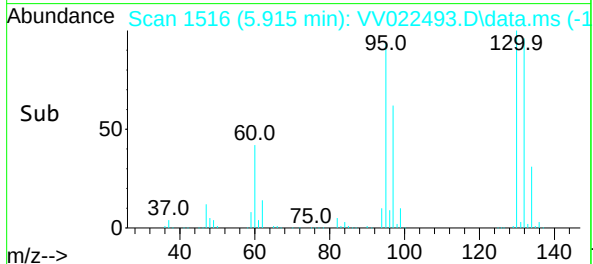
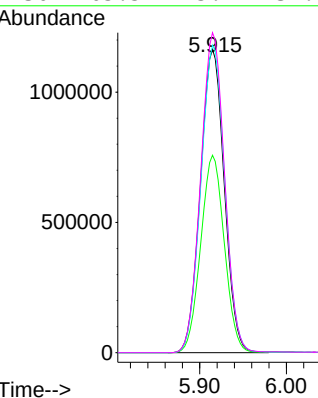
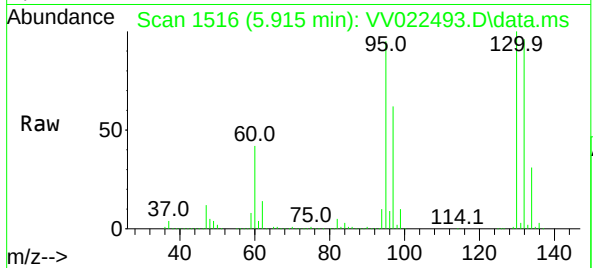
Ion Ratio Lower Upper

95 100

97 65.1 45.4 84.4

132 101.4 71.5 132.9

130 105.5 75.2 139.6



#40

4-Methyl-2-pentanone

Concen: 3.790 ug/L

RT: 7.233 min Scan# 1926

Delta R.T. 0.006 min

Lab File: VV022493.D

Acq: 02 Oct 2021 03:39

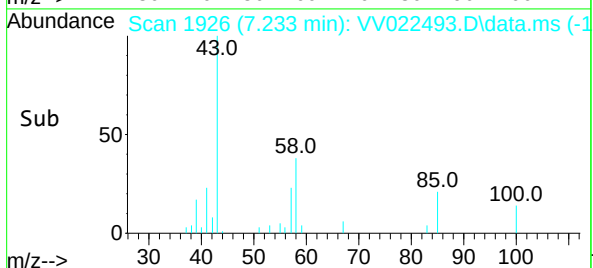
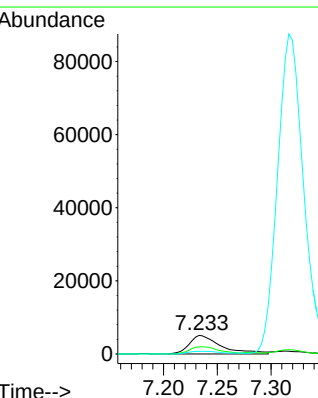
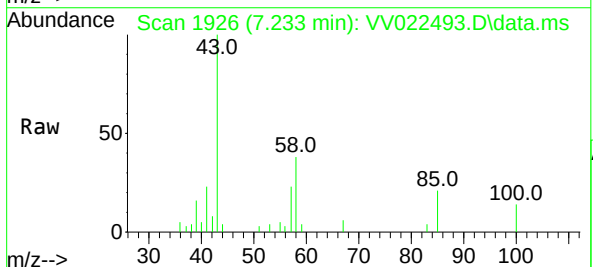
Tgt Ion: 43 Resp: 10533

Ion Ratio Lower Upper

43 100

58 35.7 32.5 48.7

100 6.6 13.9 20.9#



Instrument :

MSVOA_V

ClientSampled :

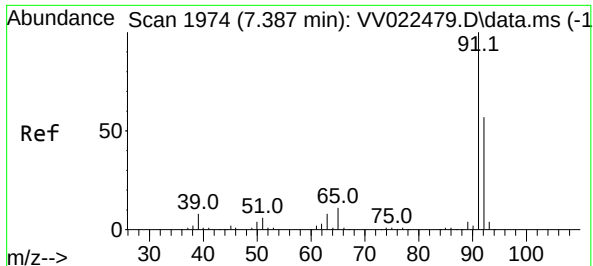
C0AH6

Manual Integrations

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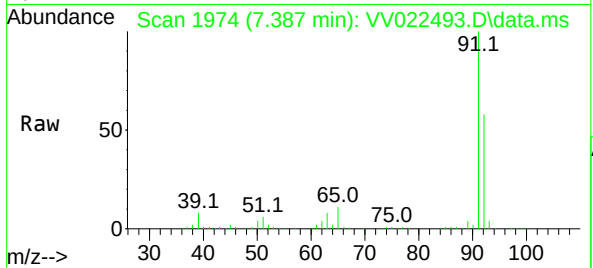
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#42
Toluene
Concen: 51.229 ug/L
RT: 7.387 min Scan# 1974
Delta R.T. -0.000 min
Lab File: VV022493.D
Acq: 02 Oct 2021 03:39

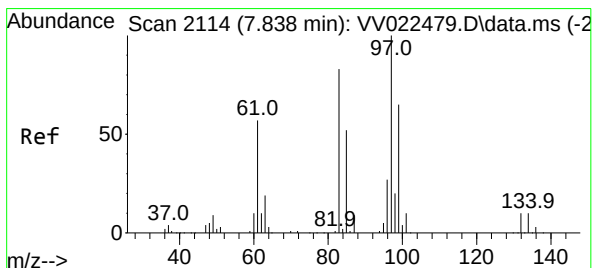
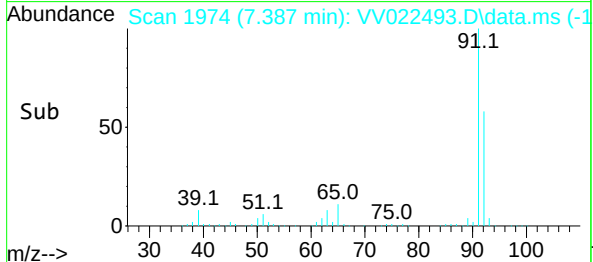
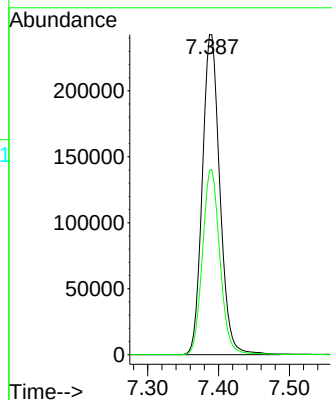
Instrument :
MSVOA_V
ClientSampled :
C0AH6



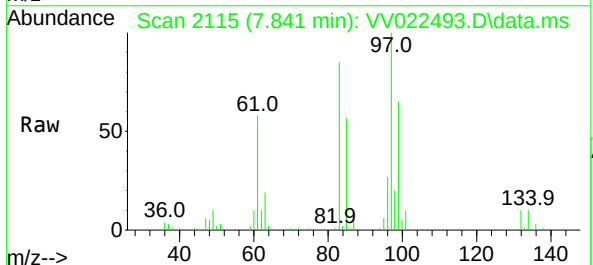
Tgt Ion: 91 Resp: 416845
Ion Ratio Lower Upper
91 100
92 57.6 40.6 75.4

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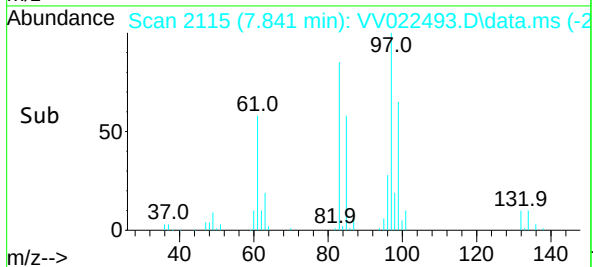
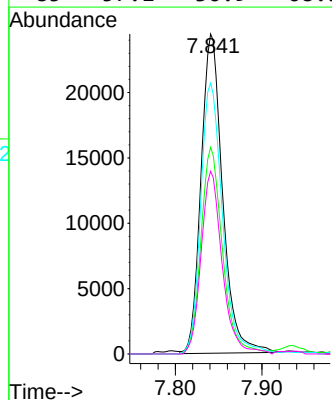
MMDadoda
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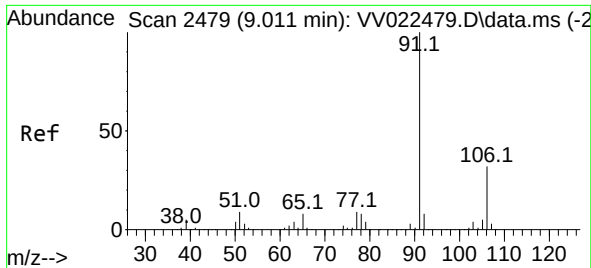


#45
1,1,2-Trichloroethane
Concen: 20.677 ug/L
RT: 7.841 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VV022493.D
Acq: 02 Oct 2021 03:39



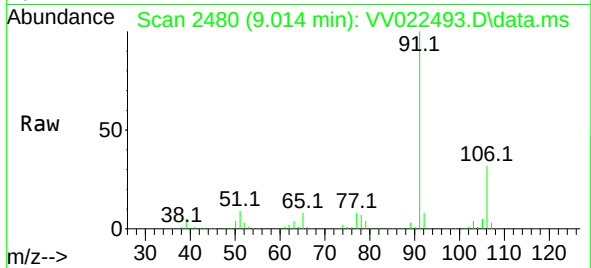
Tgt Ion: 97 Resp: 42331
Ion Ratio Lower Upper
97 100
99 64.5 43.1 80.1
83 84.6 58.6 108.8
85 57.1 36.9 68.5





#52
Ethylbenzene
Concen: 132.168 ug/L
RT: 9.014 min Scan# 2480
Delta R.T. 0.003 min
Lab File: VV022493.D
Acq: 02 Oct 2021 03:39

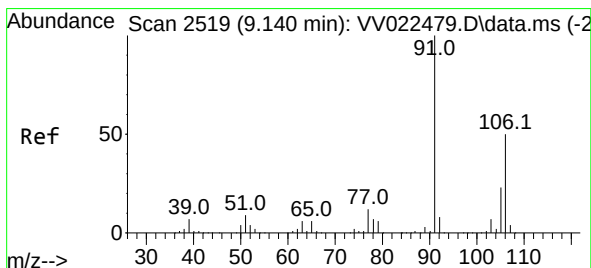
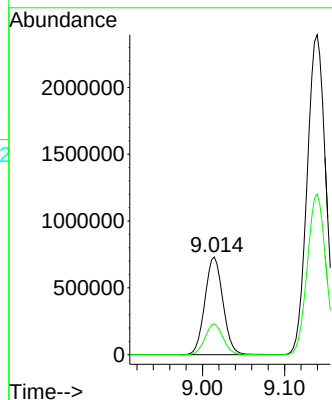
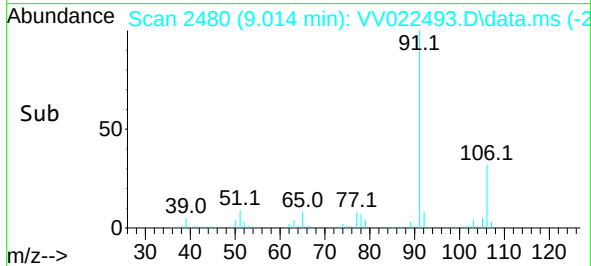
Instrument :
MSVOA_V
ClientSampled :
C0AH6



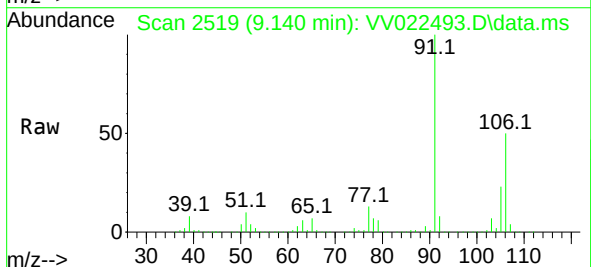
Tgt Ion: 91 Resp: 1119277
Ion Ratio Lower Upper
91 100
106 31.6 22.0 41.0

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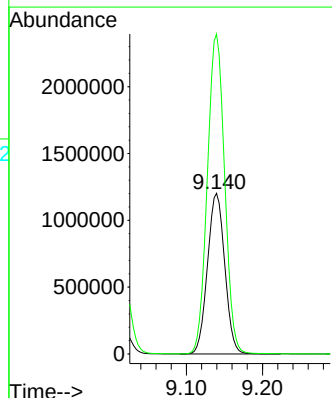
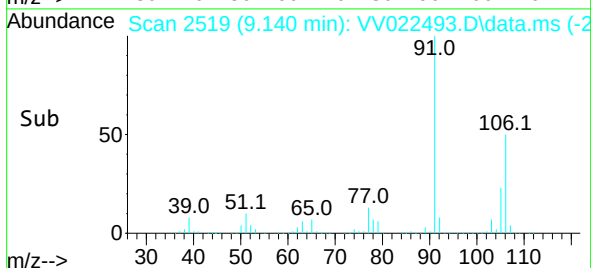
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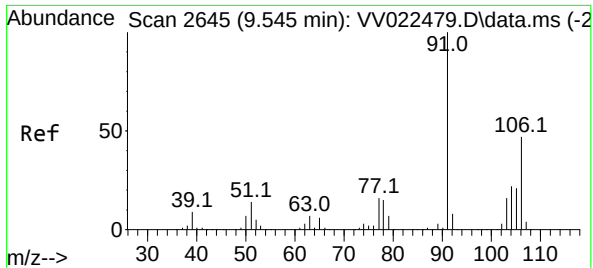


#53
m,p-Xylene
Concen: 565.011 ug/L
RT: 9.140 min Scan# 2519
Delta R.T. -0.000 min
Lab File: VV022493.D
Acq: 02 Oct 2021 03:39



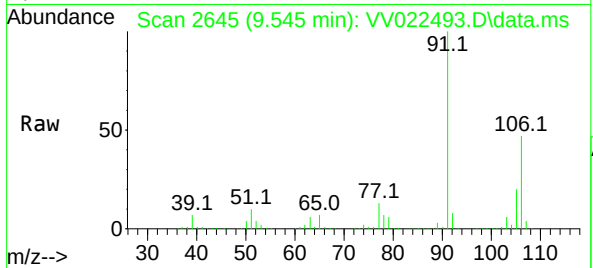
Tgt Ion: 106 Resp: 1895740
Ion Ratio Lower Upper
106 100
91 199.3 139.4 258.8





#54
o-Xylene
Concen: 264.703 ug/L
RT: 9.545 min Scan# 2645
Delta R.T. -0.000 min
Lab File: VV022493.D
Acq: 02 Oct 2021 03:39

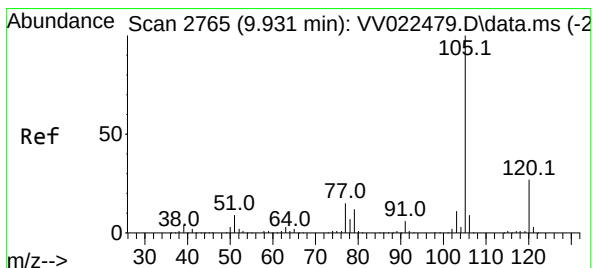
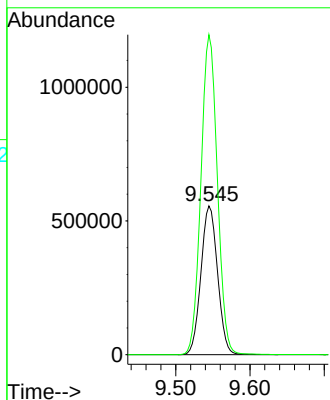
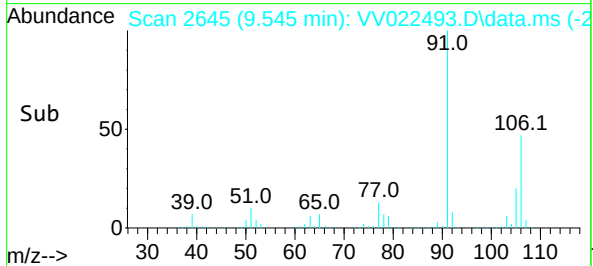
Instrument :
MSVOA_V
ClientSampled :
C0AH6



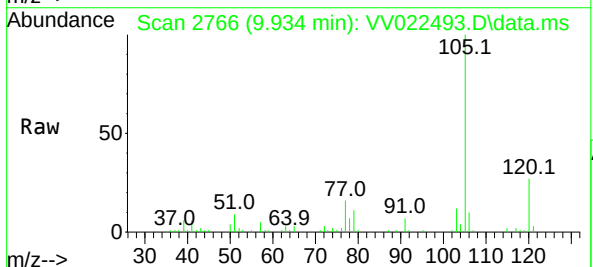
Tgt Ion:106 Resp: 865291
Ion Ratio Lower Upper
106 100
91 214.9 148.7 276.1

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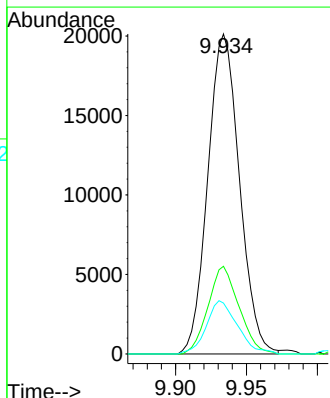
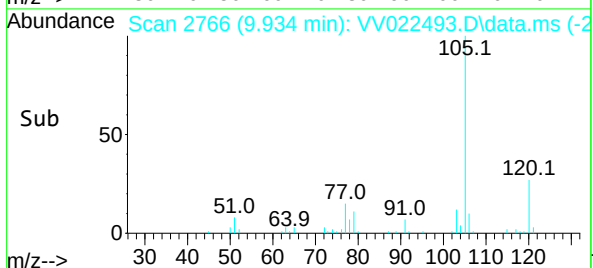
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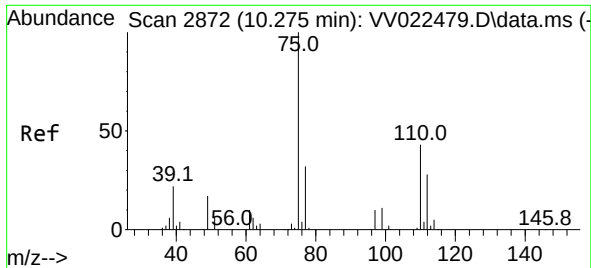


#60
Isopropylbenzene
Concen: 3.845 ug/L
RT: 9.934 min Scan# 2766
Delta R.T. 0.003 min
Lab File: VV022493.D
Acq: 02 Oct 2021 03:39



Tgt Ion:105 Resp: 31289
Ion Ratio Lower Upper
105 100
120 26.8 21.6 32.4
77 16.4 12.0 18.0





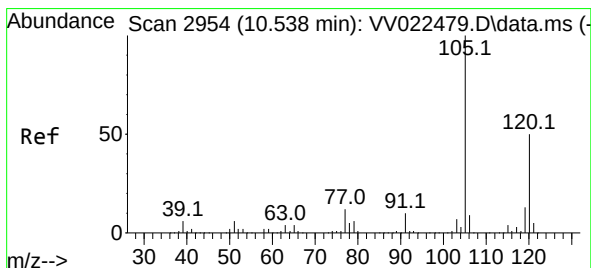
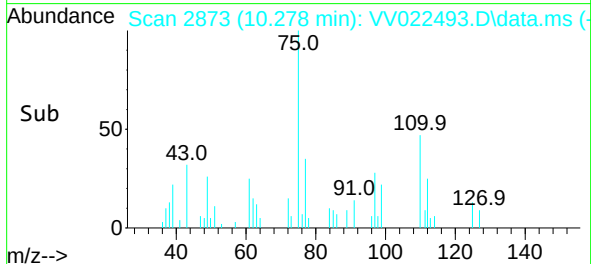
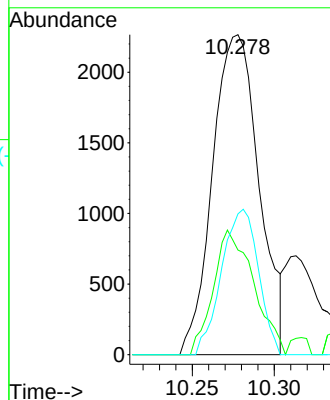
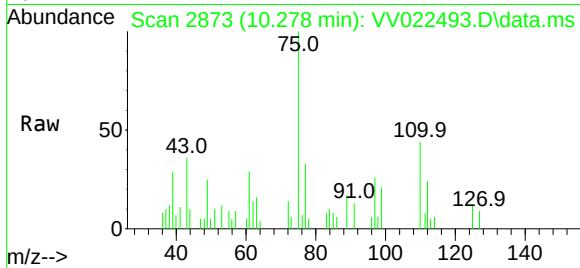
#61
 1,2,3-Trichloropropane
 Concen: 1.838 ug/L
 RT: 10.278 min Scan# 2873
 Delta R.T. 0.003 min
 Lab File: VV022493.D
 Acq: 02 Oct 2021 03:39

Tgt Ion: 75	Resp: 4471
Ion Ratio	Lower Upper
75 100	
77 33.8	26.0 39.0
110 36.0	34.3 51.5

Instrument :
 MSVOA_V
 ClientSampled :
 C0AH6

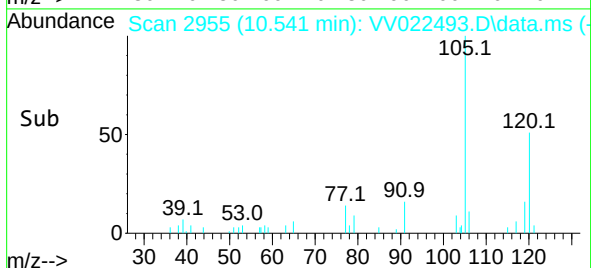
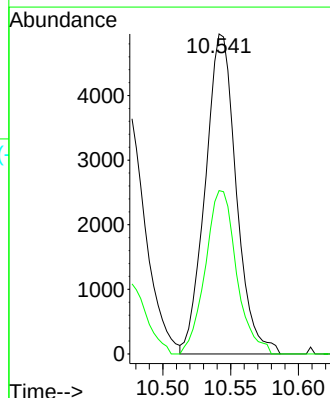
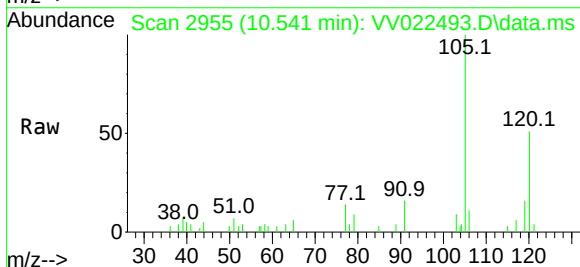
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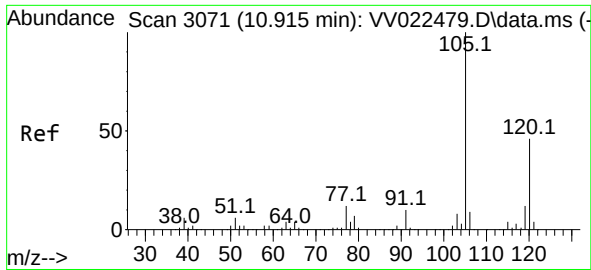
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#62
 1,3,5-Trimethylbenzene
 Concen: 1.148 ug/L
 RT: 10.541 min Scan# 2955
 Delta R.T. 0.003 min
 Lab File: VV022493.D
 Acq: 02 Oct 2021 03:39

Tgt Ion: 105	Resp: 7863
Ion Ratio	Lower Upper
105 100	
120 51.4	39.7 59.5





#63
 1,2,4-Trimethylbenzene
 Concen: 2.331 ug/L
 RT: 10.918 min Scan# 3072
 Delta R.T. 0.003 min
 Lab File: VV022493.D
 Acq: 02 Oct 2021 03:39

Tgt Ion:105 Resp: 15877
 Ion Ratio Lower Upper
 105 100
 120 49.0 37.4 56.0

Instrument :
 MSVOA_V
 ClientSampleId :
 C0AH6

Manual Integrations
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