

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111921\
 Data File : VW023634.D
 Acq On : 19 Nov 2021 11:30
 Operator : SY/MD
 Sample : M4694-11
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 22 01:45:32 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Mon Nov 22 01:44:25 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	134361	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.850	117	128543	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	59225	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	33076	3.930	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.600%
7) Chloroethane-d5	1.568	69	28106	4.097	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.000%
11) 1,1-Dichloroethene-d2	2.105	63	46316	2.939	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	58.800%#
20) 2-Butanone-d5	3.905	46	37297	25.720	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	51.440%
24) Chloroform-d	4.346	84	64651	3.604	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	72.000%
26) 1,2-Dichloroethane-d4	5.034	65	33077	4.101	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.000%
32) Benzene-d6	5.050	84	124280	3.768	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	75.400%
36) 1,2-Dichloropropane-d6	6.069	67	37173	3.829	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	76.600%
41) Toluene-d8	7.317	98	107727	3.486	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	69.800%#
43) trans-1,3-Dichloroprop...	7.625	79	14224	3.864	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.200%
46) 2-Hexanone-d5	8.091	63	46291	34.176	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	68.360%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	24896	3.566	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	71.400%
66) 1,2-Dichlorobenzene-d4	11.625	152	41818	4.240	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	84.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.236	50	128	0.011	ug/L #	40
5) Vinyl chloride	1.310	62	171	0.015	ug/L #	1
6) Bromomethane	1.526	94	87	0.012	ug/L	100
8) Chloroethane	1.580	64	91	0.014	ug/L #	43
10) 1,1,2-Trichloro-1,2,2-...	2.108	101	532	0.063	ug/L #	18
12) 1,1-Dichloroethene	2.105	96	377	0.047	ug/L #	1
13) Acetone	2.133	43	42	0.047	ug/L #	47
14) Carbon disulfide	2.294	76	326	0.011	ug/L #	75
15) Methyl Acetate	2.359	43	42	0.017	ug/L #	47
16) Methylene chloride	2.506	84	7105	0.608	ug/L	96
21) 2-Butanone	3.976	43	41	0.029	ug/L #	51
25) Chloroform	4.375	83	4289	0.242	ug/L	87
27) 1,2-Dichloroethane	5.043	62	779	0.083	ug/L #	72
33) Benzene	5.082	78	67	0.002	ug/L	100
35) Methylcyclohexane	6.069	83	9798	0.650	ug/L #	18
37) 1,2-Dichloropropane	6.069	63	4540	0.541	ug/L #	83
39) cis-1,3-Dichloropropene	6.989	75	1020	0.085	ug/L #	30
40) 4-Methyl-2-pentanone	7.310	43	420	0.108	ug/L #	1
42) Toluene	7.403	91	1752	0.046	ug/L #	73

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

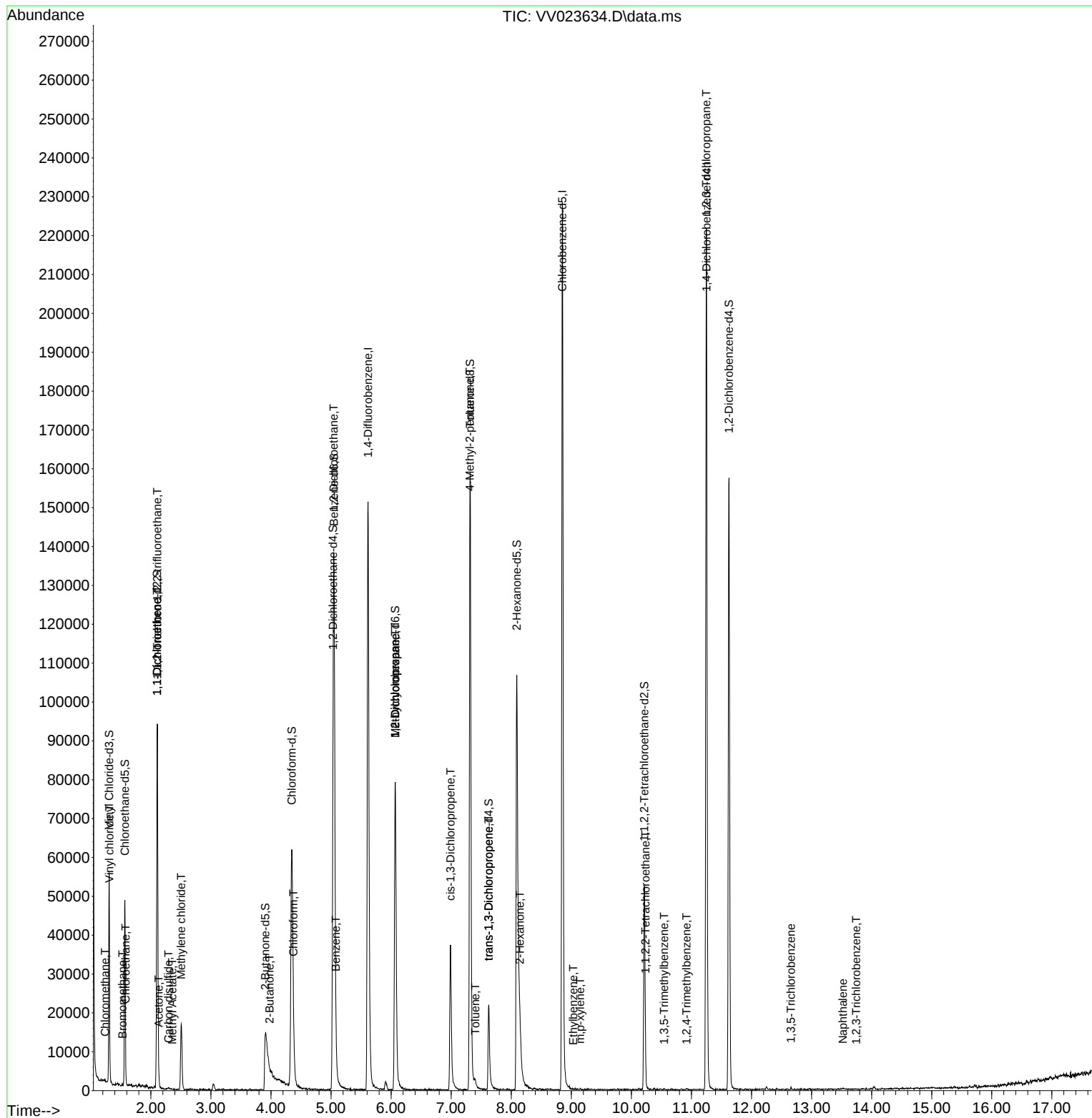
44) trans-1,3-Dichloropropene	7.625	75	665	0.066	ug/L #	71
48) 2-Hexanone	8.143	43	3611	1.325	ug/L #	78
52) Ethylbenzene	9.034	91	126	0.003	ug/L #	42
53) m,p-xylene	9.146	106	42	0.003	ug/L #	55
57) 1,1,2,2-Tetrachloroethane	10.233	83	44	0.007	ug/L #	1
61) 1,2,3-Trichloropropane	11.246	75	6240	1.586	ug/L #	65
62) 1,3,5-Trimethylbenzene	10.545	105	19	0.001	ug/L #	28
63) 1,2,4-Trimethylbenzene	10.918	105	216	0.008	ug/L #	78
69) 1,3,5-Trichlorobenzene	12.657	180	67	0.005	ug/L #	58
71) Naphthalene	13.522	128	239	0.015	ug/L #	69
72) 1,2,3-Trichlorobenzene	13.744	180	19	0.002	ug/L #	12

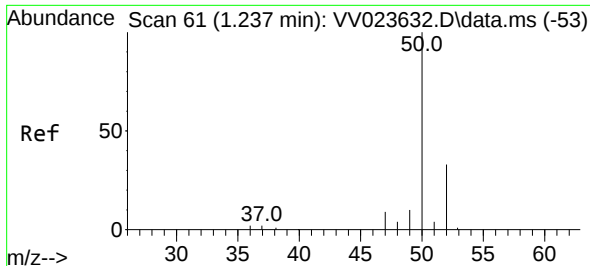
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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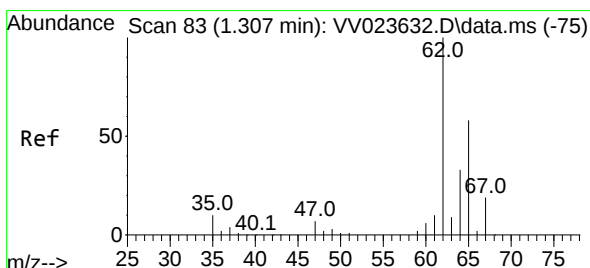
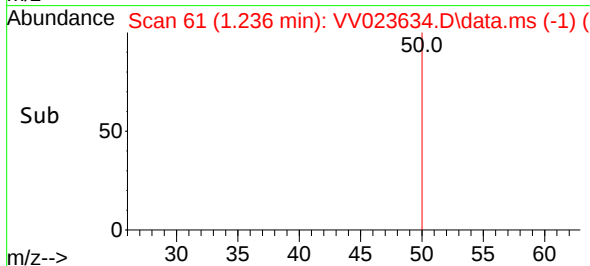
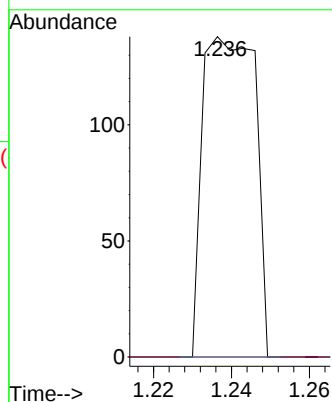
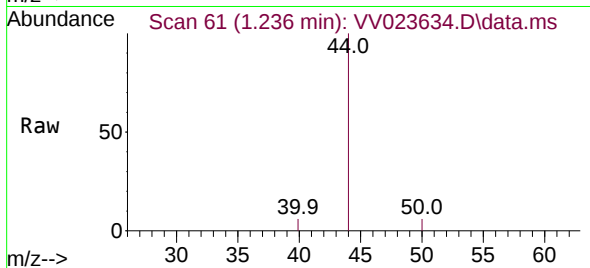




#3
Chloromethane
Concen: 0.011 ug/L
RT: 1.236 min Scan# 61
Delta R.T. -0.000 min
Lab File: VV023634.D
Acq: 19 Nov 2021 11:30

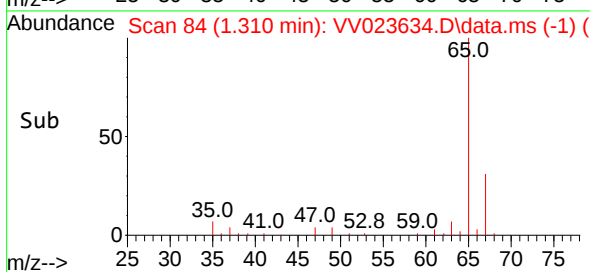
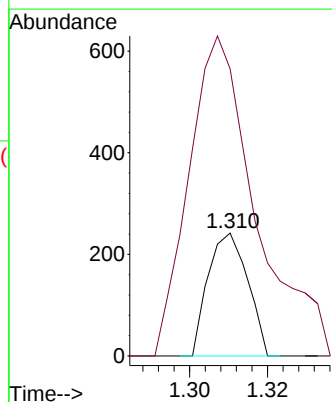
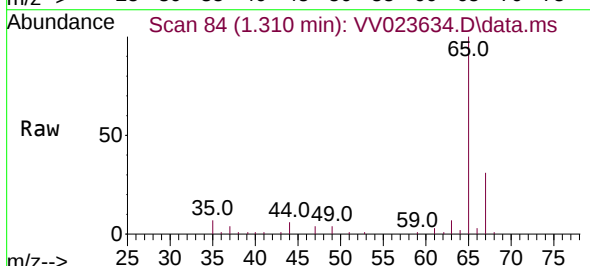
Instrument :
MSVOA_V
ClientSampleId :

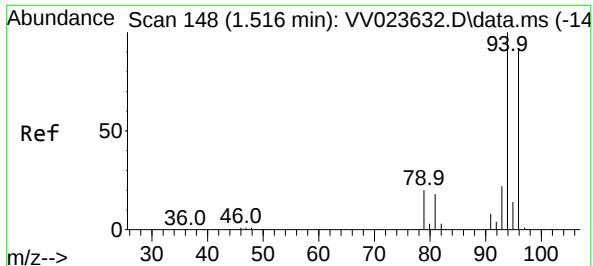
Tgt Ion: 50 Resp: 128
Ion Ratio Lower Upper
50 100
52 0.0 24.3 45.1#



#5
Vinyl chloride
Concen: 0.015 ug/L
RT: 1.310 min Scan# 84
Delta R.T. 0.003 min
Lab File: VV023634.D
Acq: 19 Nov 2021 11:30

Tgt Ion: 62 Resp: 171
Ion Ratio Lower Upper
62 100
64 233.5 23.1 42.9#

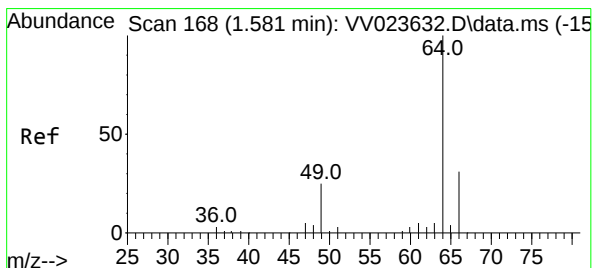
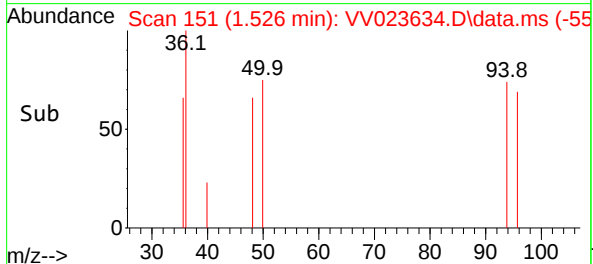
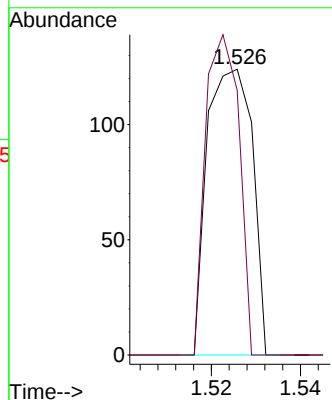
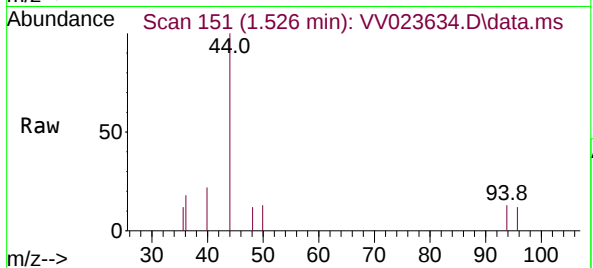




#6
Bromomethane
Concen: 0.012 ug/L
RT: 1.526 min Scan# 11
Delta R.T. 0.010 min
Lab File: VV023634.D
Acq: 19 Nov 2021 11:30

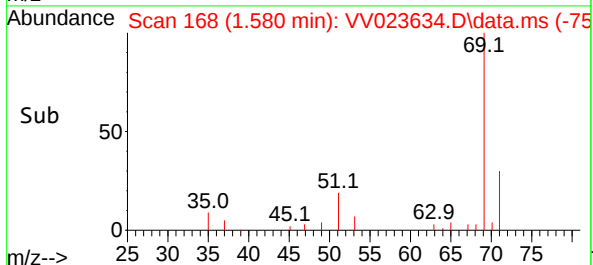
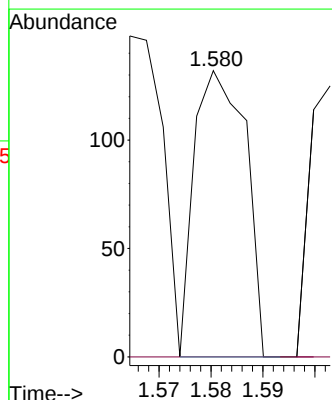
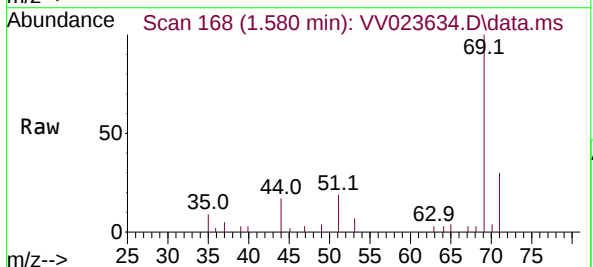
Instrument :
MSVOA_V
ClientSampleId :

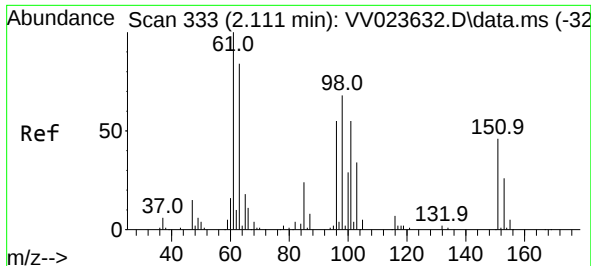
Tgt Ion: 94 Resp: 87
Ion Ratio Lower Upper
94 100
96 92.7 65.0 120.8



#8
Chloroethane
Concen: 0.014 ug/L
RT: 1.580 min Scan# 168
Delta R.T. -0.000 min
Lab File: VV023634.D
Acq: 19 Nov 2021 11:30

Tgt Ion: 64 Resp: 91
Ion Ratio Lower Upper
64 100
66 0.0 22.1 41.1#





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.063 ug/L

RT: 2.108 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV023634.D

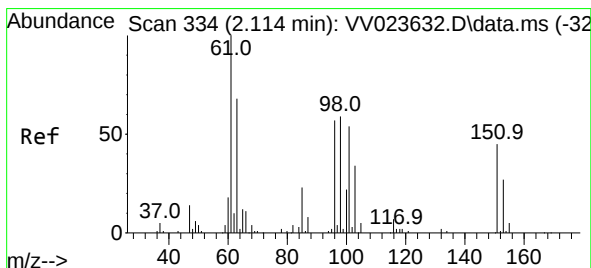
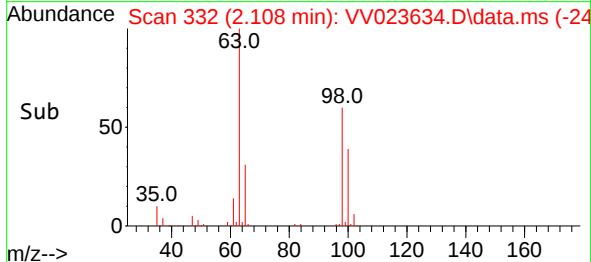
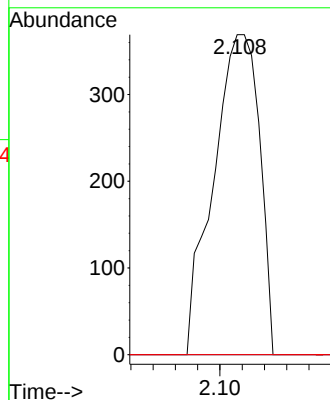
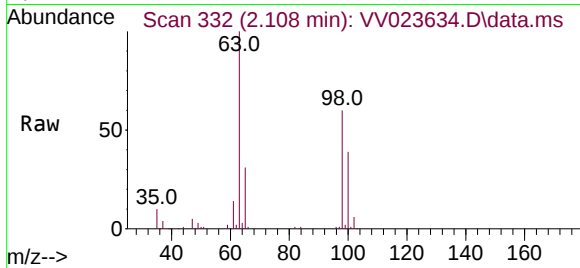
Acq: 19 Nov 2021 11:30

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	101	Resp:	532
Ion	Ratio	Lower	Upper
101	100		
85	0.0	35.3	52.9#
151	0.0	62.2	93.2#



#12

1,1-Dichloroethene

Concen: 0.047 ug/L

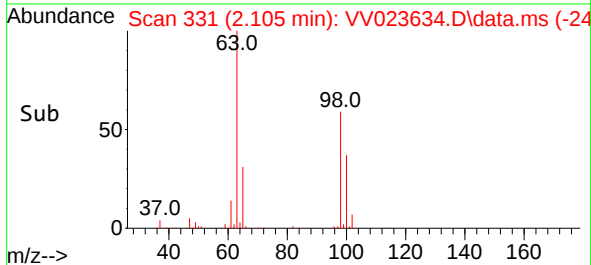
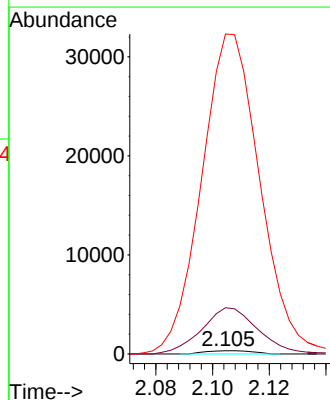
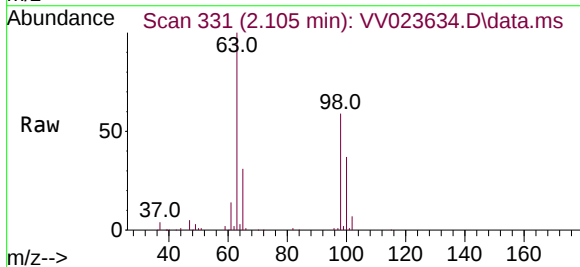
RT: 2.105 min Scan# 331

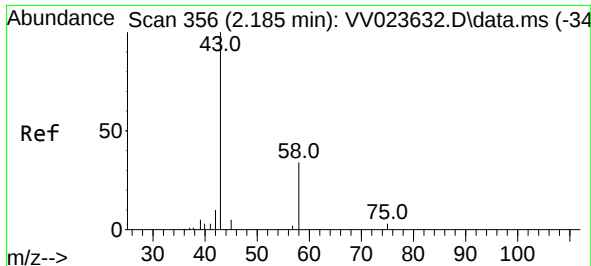
Delta R.T. -0.010 min

Lab File: VV023634.D

Acq: 19 Nov 2021 11:30

Tgt Ion:	96	Resp:	377
Ion	Ratio	Lower	Upper
96	100		
61	1428.1	121.5	225.7#
63	9878.9	99.6	185.0#





#13

Acetone

Concen: 0.047 ug/L

RT: 2.133 min Scan# 34

Delta R.T. -0.052 min

Lab File: VV023634.D

Acq: 19 Nov 2021 11:30

Instrument :

MSVOA_V

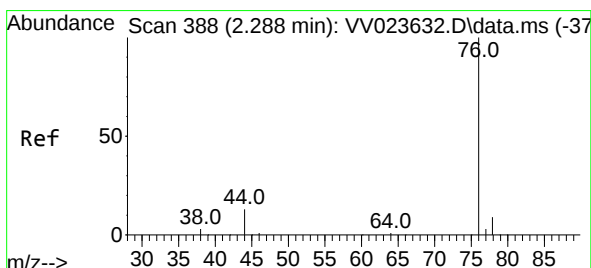
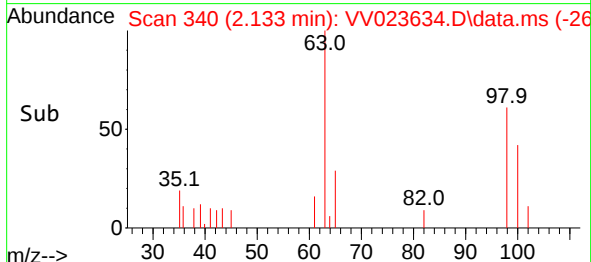
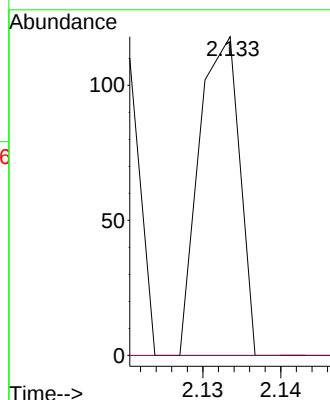
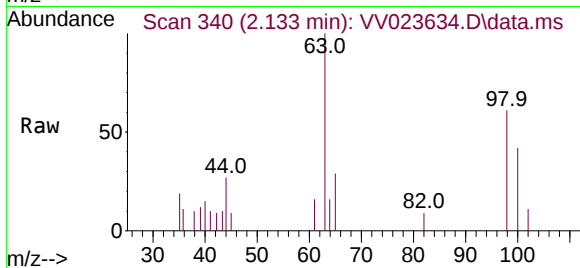
ClientSampleId :

Tgt Ion: 43 Resp: 42

Ion Ratio Lower Upper

43 100

58 0.0 0.0 55.4



#14

Carbon disulfide

Concen: 0.011 ug/L

RT: 2.294 min Scan# 390

Delta R.T. 0.006 min

Lab File: VV023634.D

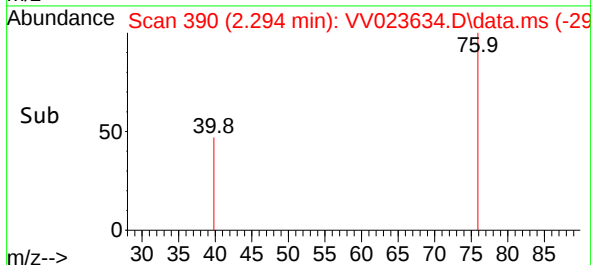
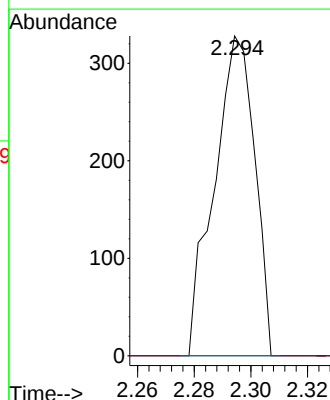
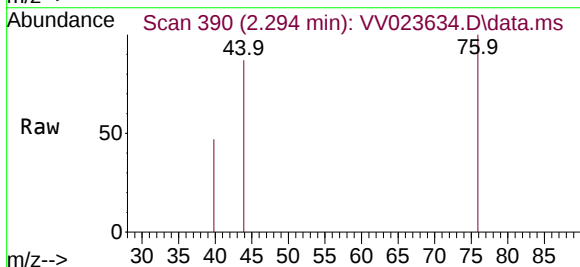
Acq: 19 Nov 2021 11:30

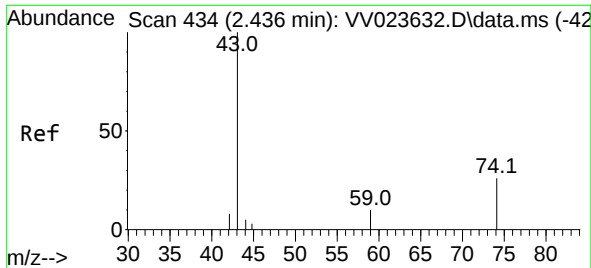
Tgt Ion: 76 Resp: 326

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

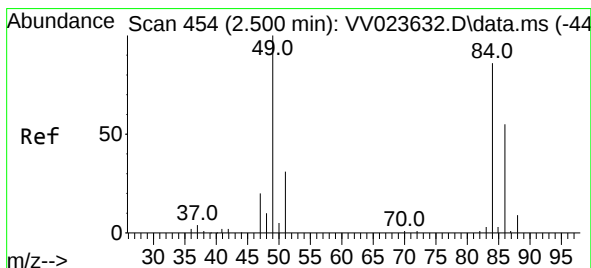
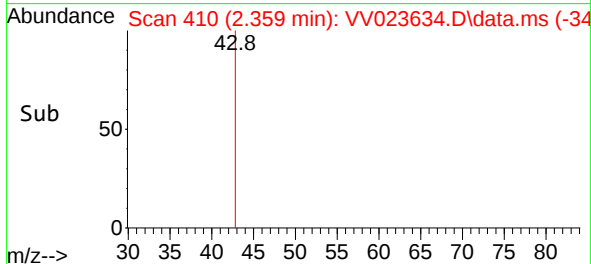
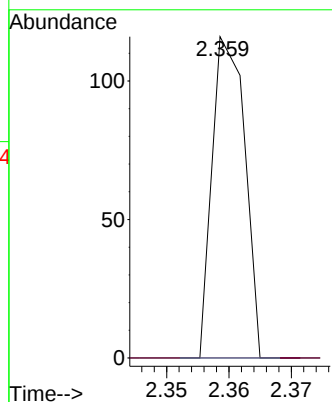
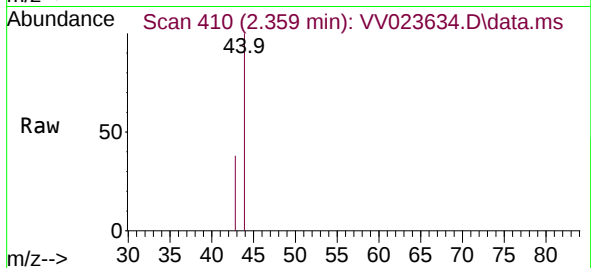




#15
Methyl Acetate
Concen: 0.017 ug/L
RT: 2.359 min Scan# 41
Delta R.T. -0.077 min
Lab File: VV023634.D
Acq: 19 Nov 2021 11:30

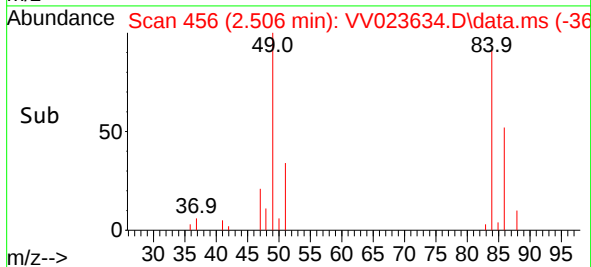
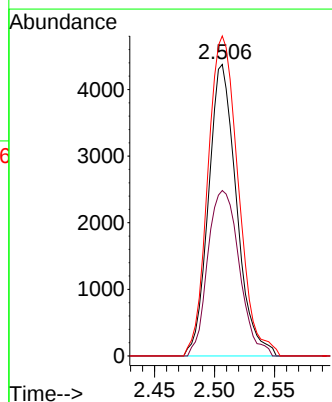
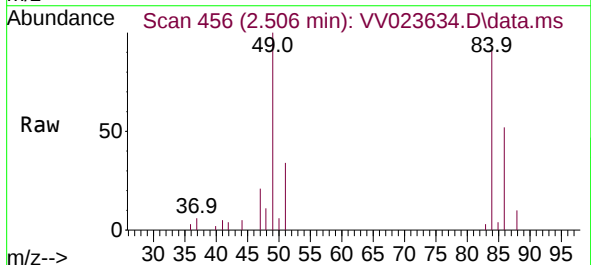
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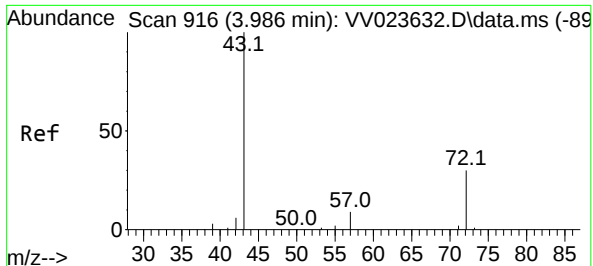
Tgt Ion: 43 Resp: 42
Ion Ratio Lower Upper
43 100
74 0.0 22.2 33.2#



#16
Methylene chloride
Concen: 0.608 ug/L
RT: 2.506 min Scan# 456
Delta R.T. 0.006 min
Lab File: VV023634.D
Acq: 19 Nov 2021 11:30

Tgt Ion: 84 Resp: 7105
Ion Ratio Lower Upper
84 100
86 56.8 42.3 78.5
49 109.8 79.7 148.1

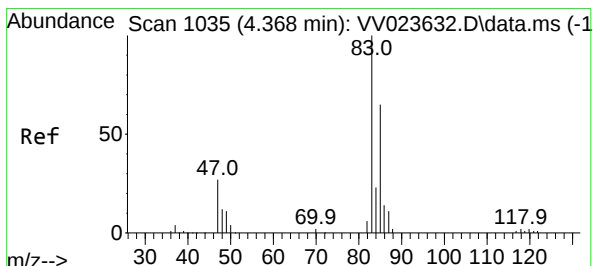
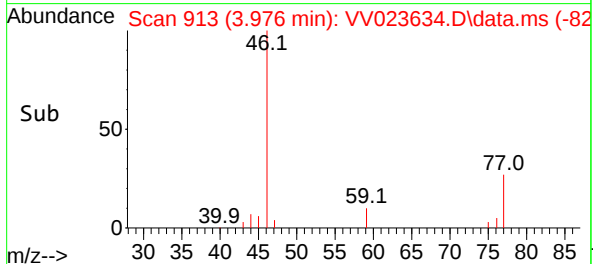
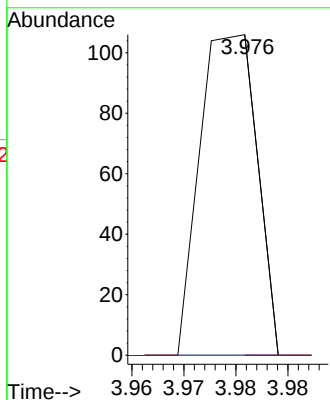
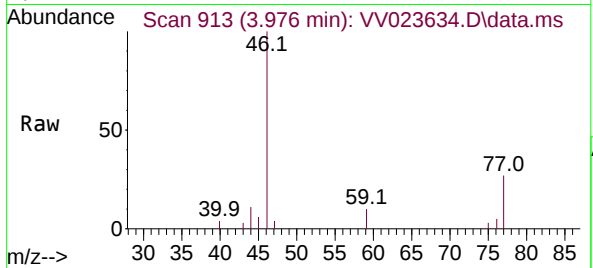




#21
2-Butanone
Concen: 0.029 ug/L
RT: 3.976 min Scan# 916
Delta R.T. -0.010 min
Lab File: VV023634.D
Acq: 19 Nov 2021 11:30

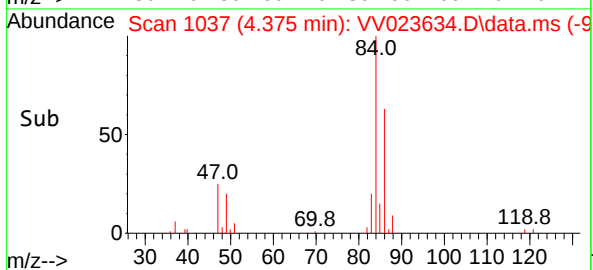
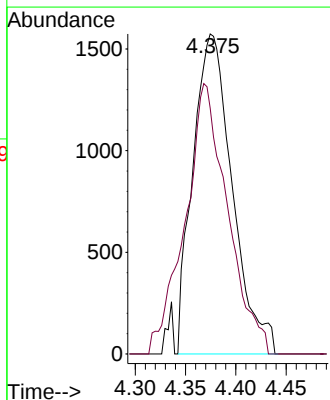
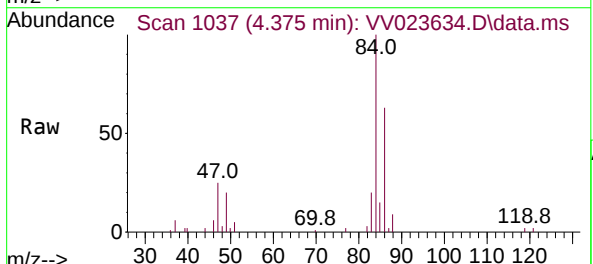
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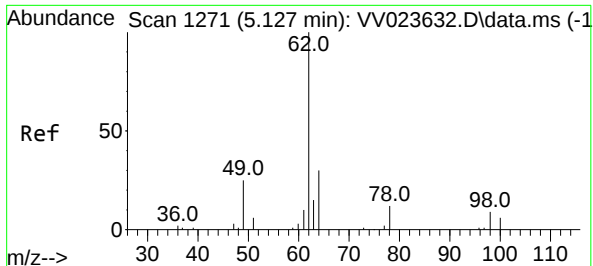
Tgt Ion: 43 Resp: 41
Ion Ratio Lower Upper
43 100
72 0.0 11.9 35.9#



#25
Chloroform
Concen: 0.242 ug/L
RT: 4.375 min Scan# 1037
Delta R.T. 0.006 min
Lab File: VV023634.D
Acq: 19 Nov 2021 11:30

Tgt Ion: 83 Resp: 4289
Ion Ratio Lower Upper
83 100
85 76.8 46.8 86.8





#27

1,2-Dichloroethane

Concen: 0.083 ug/L

RT: 5.043 min Scan# 11

Delta R.T. -0.084 min

Lab File: VV023634.D

Acq: 19 Nov 2021 11:30

Instrument :

MSVOA_V

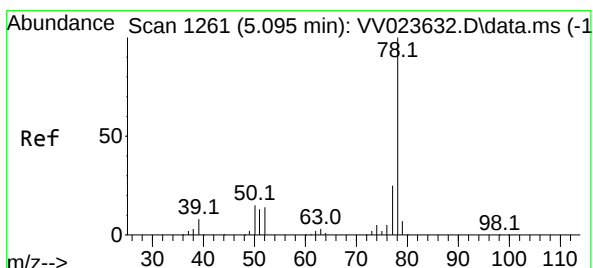
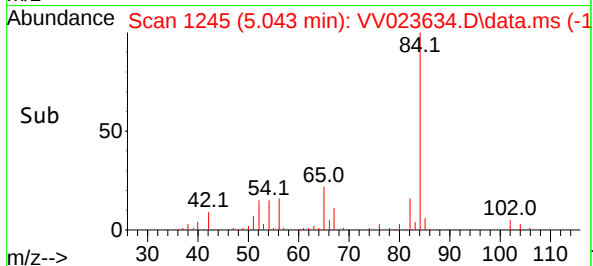
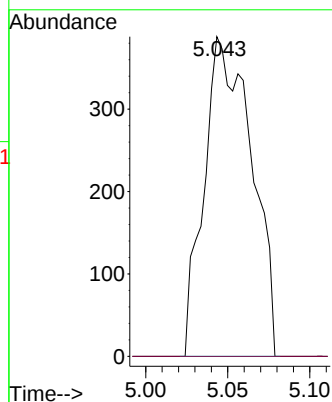
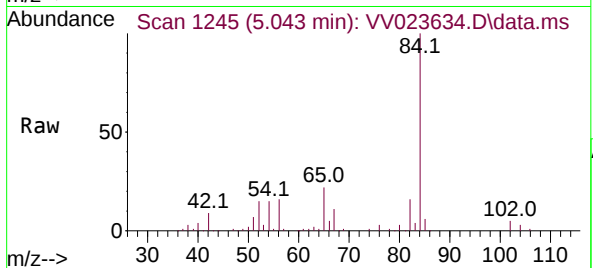
ClientSampleId :

Tgt Ion: 62 Resp: 779

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#



#33

Benzene

Concen: 0.002 ug/L

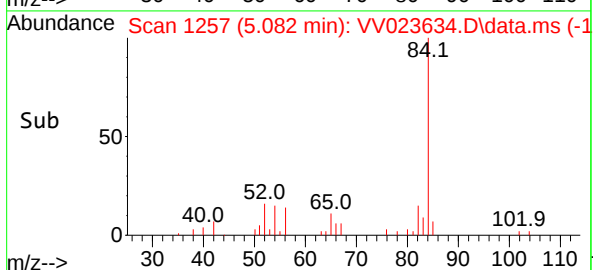
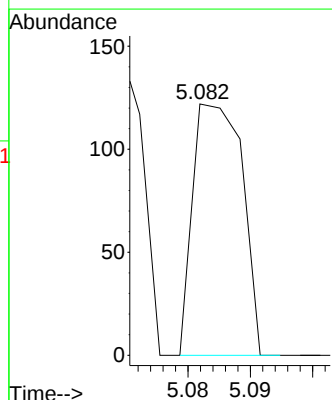
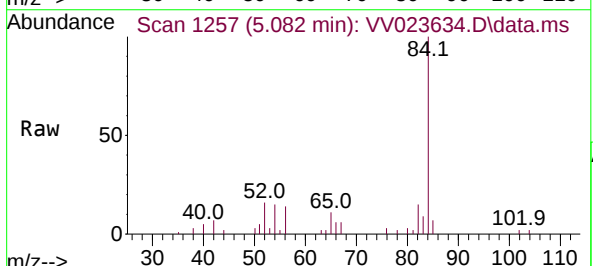
RT: 5.082 min Scan# 1257

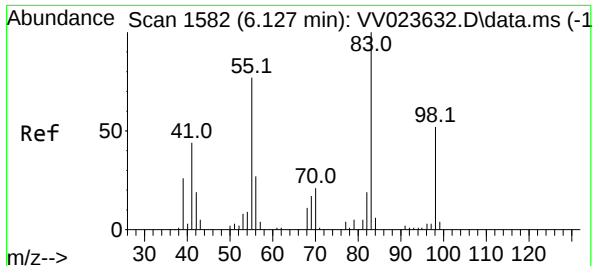
Delta R.T. -0.013 min

Lab File: VV023634.D

Acq: 19 Nov 2021 11:30

Tgt Ion: 78 Resp: 67





#35

Methylcyclohexane

Concen: 0.650 ug/L

RT: 6.069 min Scan# 1564

Delta R.T. -0.058 min

Lab File: VV023634.D

Acq: 19 Nov 2021 11:30

Instrument :

MSVOA_V

ClientSampleId :

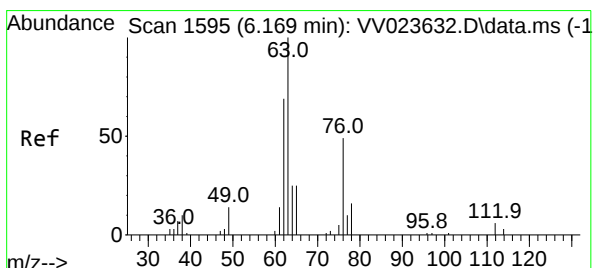
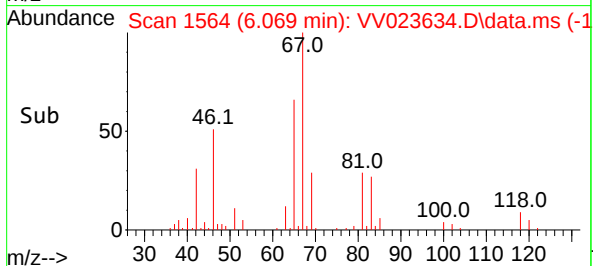
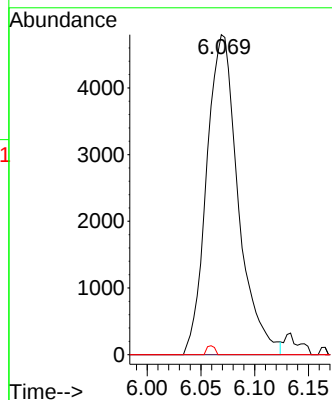
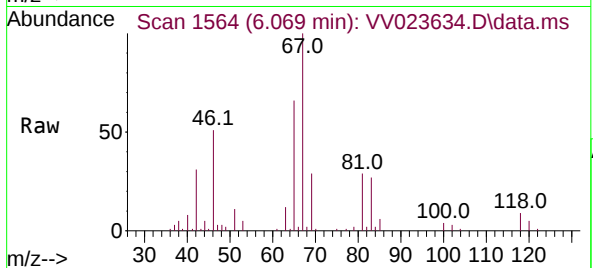
Tgt Ion: 83 Resp: 9798

Ion Ratio Lower Upper

83 100

55 0.0 62.8 94.2#

98 0.7 37.9 56.9#



#37

1,2-Dichloropropane

Concen: 0.541 ug/L

RT: 6.069 min Scan# 1564

Delta R.T. -0.100 min

Lab File: VV023634.D

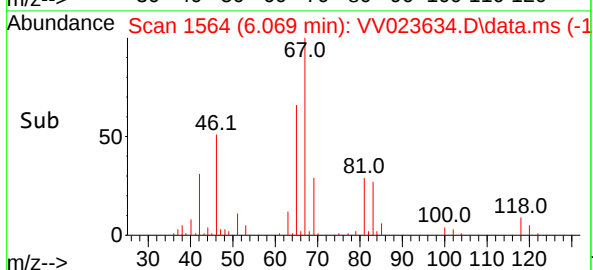
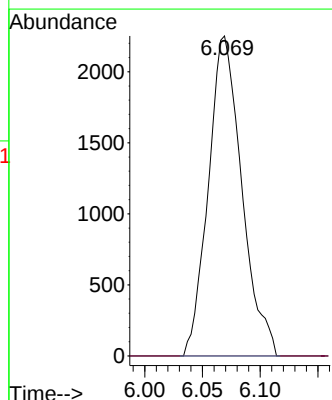
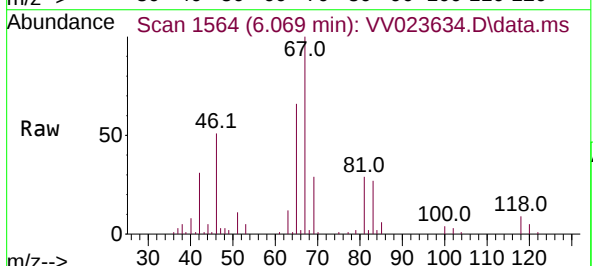
Acq: 19 Nov 2021 11:30

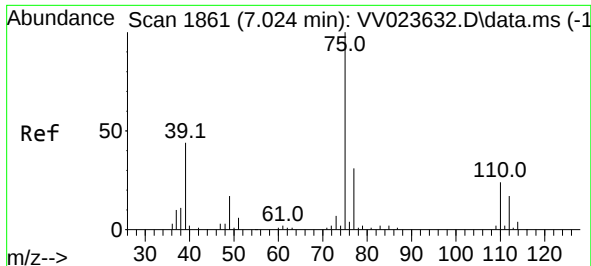
Tgt Ion: 63 Resp: 4540

Ion Ratio Lower Upper

63 100

112 0.0 4.6 6.8#





#39

cis-1,3-Dichloropropene

Concen: 0.085 ug/L

RT: 6.989 min Scan# 11

Delta R.T. -0.035 min

Lab File: VV023634.D

Acq: 19 Nov 2021 11:30

Instrument :

MSVOA_V

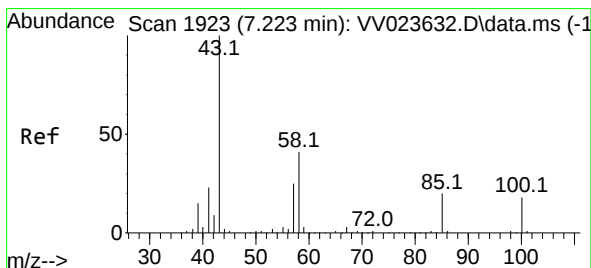
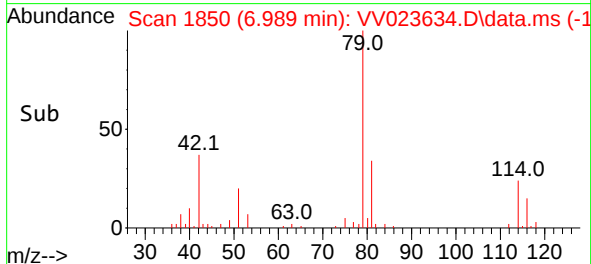
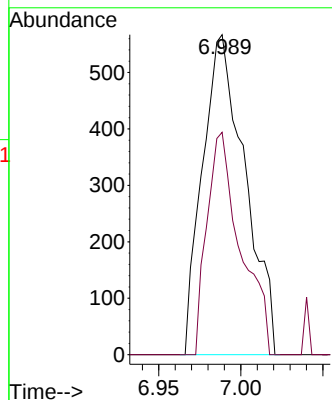
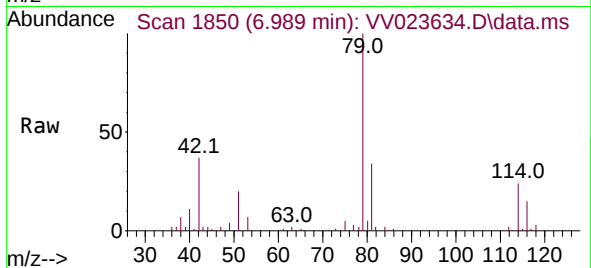
ClientSampleId :

Tgt Ion: 75 Resp: 1020

Ion Ratio Lower Upper

75 100

77 69.5 21.6 40.2#



#40

4-Methyl-2-pentanone

Concen: 0.108 ug/L

RT: 7.310 min Scan# 1950

Delta R.T. 0.087 min

Lab File: VV023634.D

Acq: 19 Nov 2021 11:30

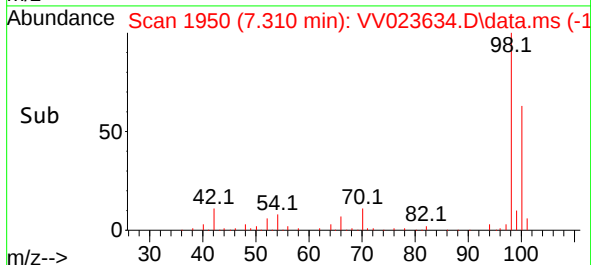
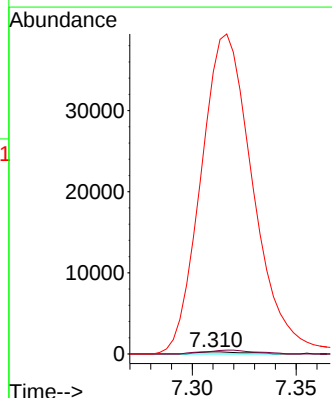
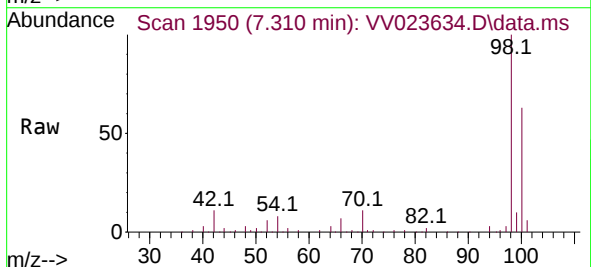
Tgt Ion: 43 Resp: 420

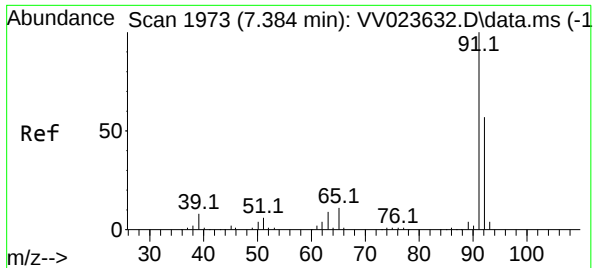
Ion Ratio Lower Upper

43 100

58 191.0 31.1 46.7#

100 16754.0 12.6 19.0#





#42

Toluene

Concen: 0.046 ug/L

RT: 7.403 min Scan# 1973

Delta R.T. 0.019 min

Lab File: VV023634.D

Acq: 19 Nov 2021 11:30

Instrument :

MSVOA_V

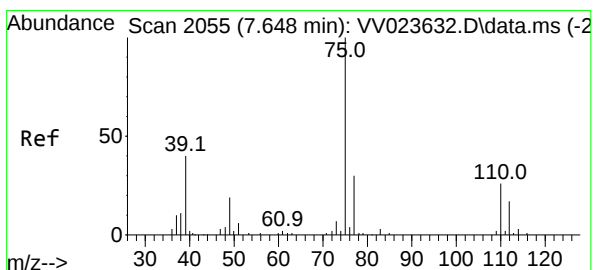
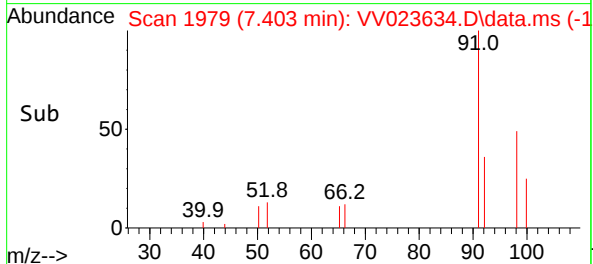
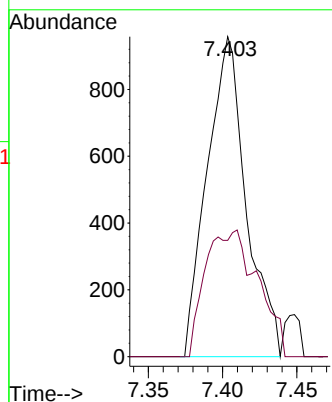
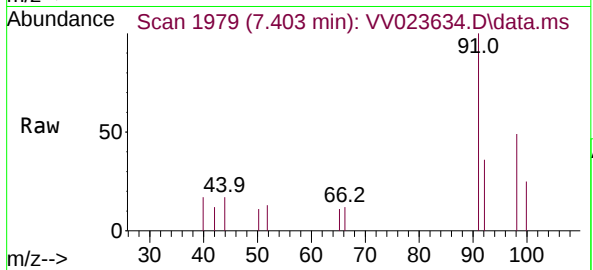
ClientSampleId :

Tgt Ion: 91 Resp: 1752

Ion Ratio Lower Upper

91 100

92 36.3 39.3 72.9#



#44

trans-1,3-Dichloropropene

Concen: 0.066 ug/L

RT: 7.625 min Scan# 2048

Delta R.T. -0.023 min

Lab File: VV023634.D

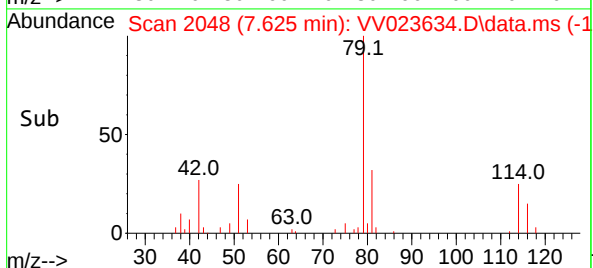
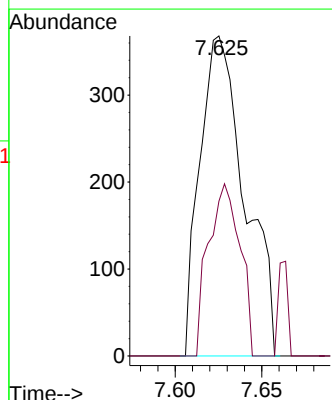
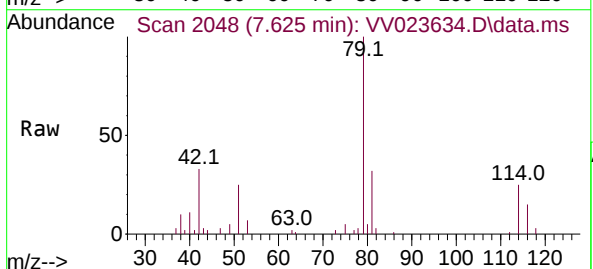
Acq: 19 Nov 2021 11:30

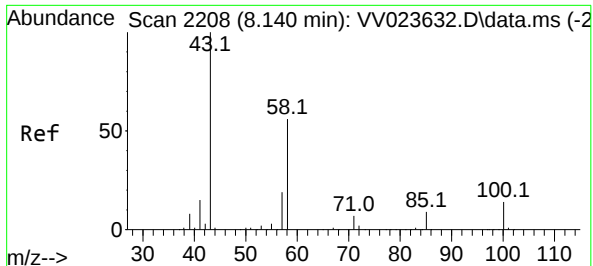
Tgt Ion: 75 Resp: 665

Ion Ratio Lower Upper

75 100

77 48.4 22.5 41.7#

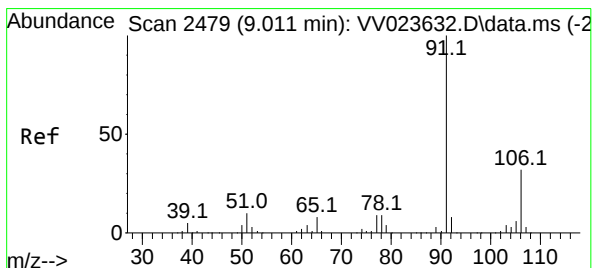
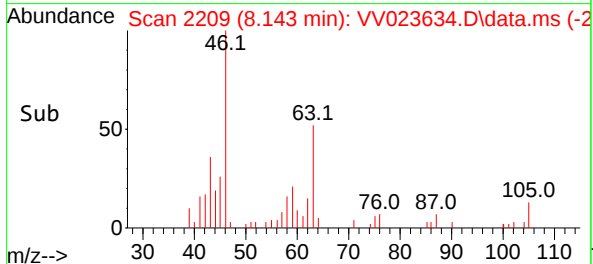
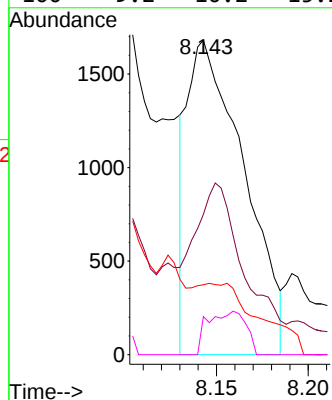
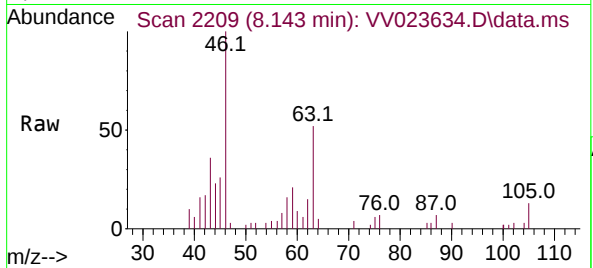




#48
2-Hexanone
Concen: 1.325 ug/L
RT: 8.143 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV023634.D
Acq: 19 Nov 2021 11:30

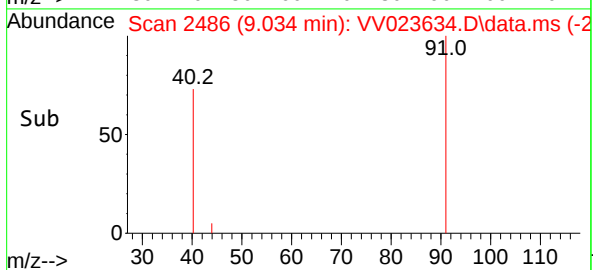
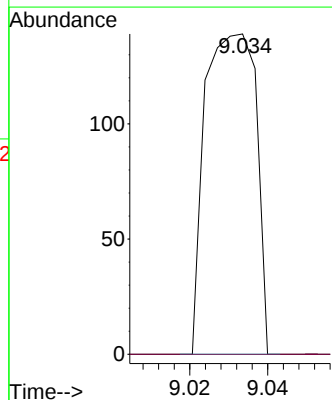
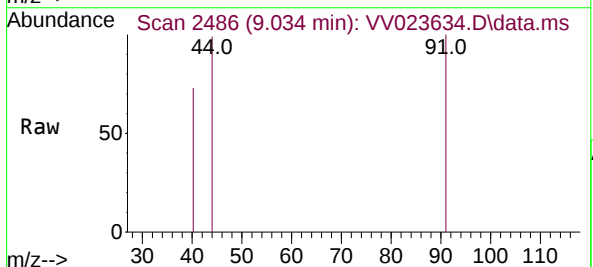
Instrument :
MSVOA_V
ClientSampleId :

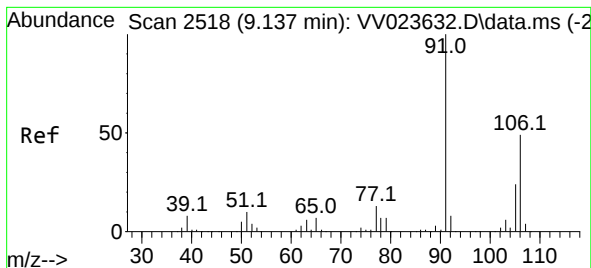
Tgt Ion: 43	Resp: 3611
Ion Ratio	Lower Upper
43	100
58	38.6 43.7 65.5#
57	4.1 14.1 21.1#
100	9.2 10.2 15.2#



#52
Ethylbenzene
Concen: 0.003 ug/L
RT: 9.034 min Scan# 2486
Delta R.T. 0.022 min
Lab File: VV023634.D
Acq: 19 Nov 2021 11:30

Tgt Ion: 91	Resp: 126
Ion Ratio	Lower Upper
91	100
106	0.0 22.5 41.9#





#53

m,p-xylene

Concen: 0.003 ug/L

RT: 9.146 min Scan# 21

Delta R.T. 0.010 min

Lab File: VV023634.D

Acq: 19 Nov 2021 11:30

Instrument :

MSVOA_V

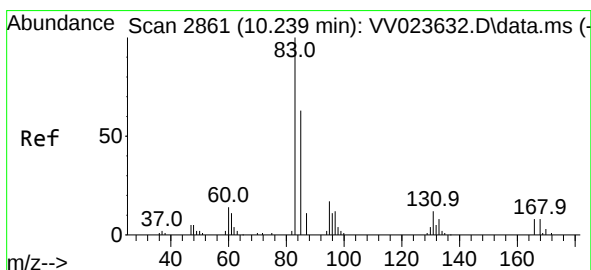
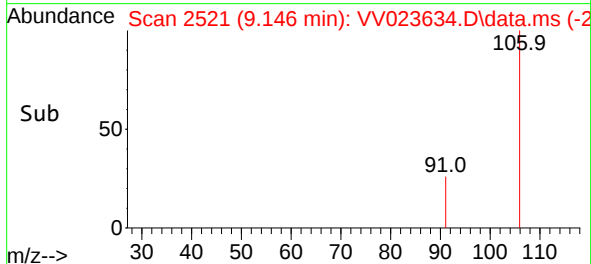
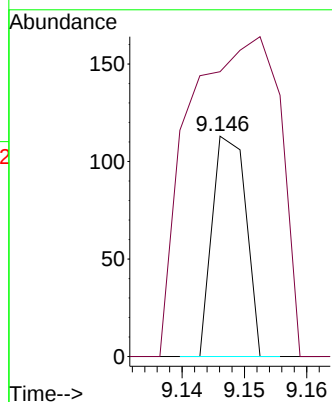
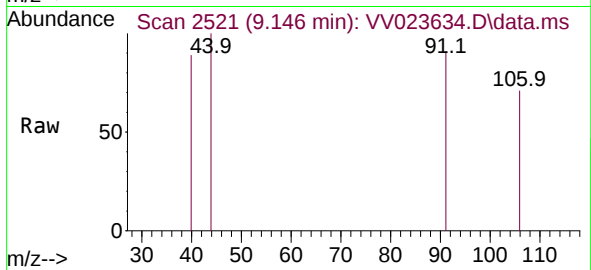
ClientSampleId :

Tgt Ion:106 Resp: 42

Ion Ratio Lower Upper

106 100

91 129.2 137.2 254.8#



#57

1,1,2,2-Tetrachloroethane

Concen: 0.007 ug/L

RT: 10.233 min Scan# 2859

Delta R.T. -0.007 min

Lab File: VV023634.D

Acq: 19 Nov 2021 11:30

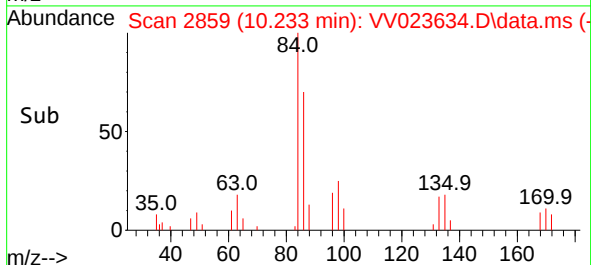
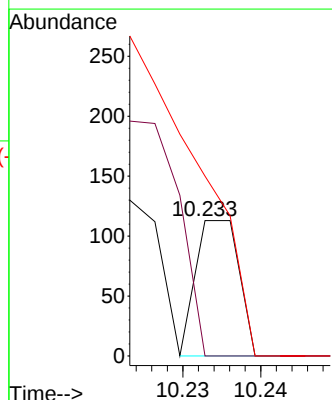
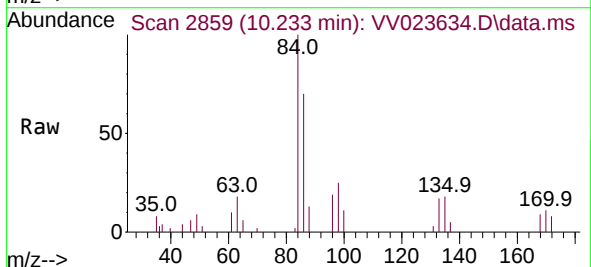
Tgt Ion: 83 Resp: 44

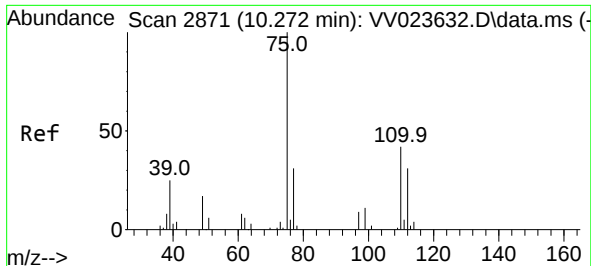
Ion Ratio Lower Upper

83 100

85 0.0 45.1 83.9#

131 132.7 7.8 11.6#

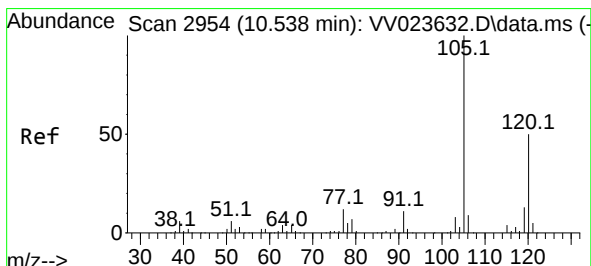
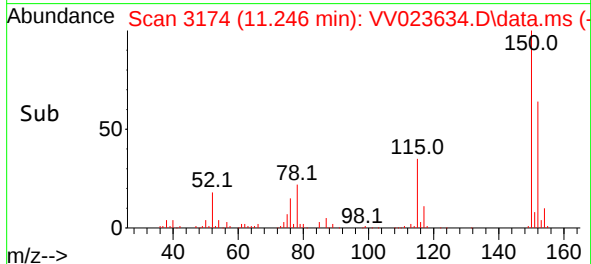
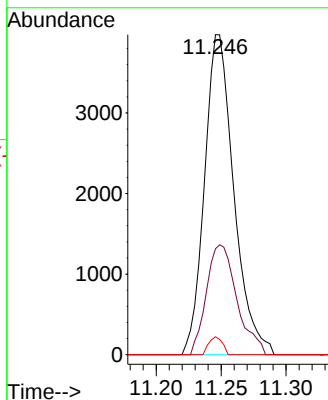
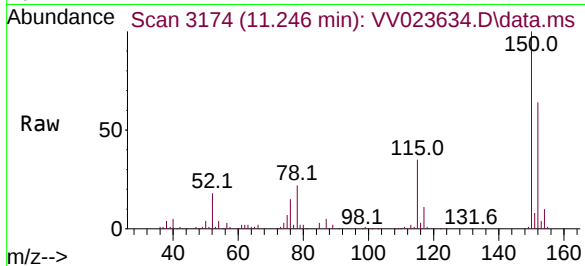




#61
 1,2,3-Trichloropropane
 Concen: 1.586 ug/L
 RT: 11.246 min Scan# 31174
 Delta R.T. 0.974 min
 Lab File: VV023634.D
 Acq: 19 Nov 2021 11:30

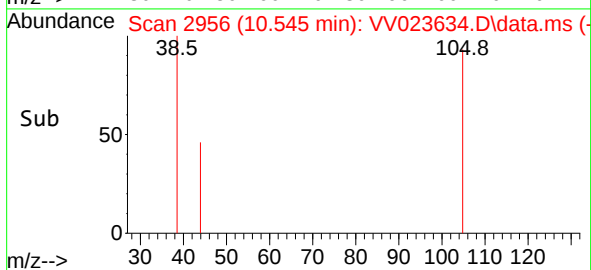
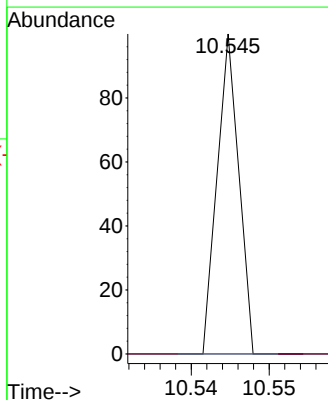
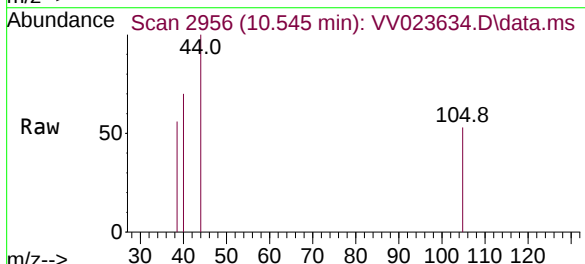
Instrument :
 MSVOA_V
 ClientSampleId :

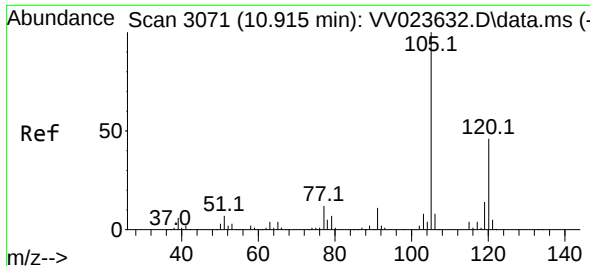
Tgt Ion: 75 Resp: 6240
 Ion Ratio Lower Upper
 75 100
 77 35.6 26.6 39.8
 110 2.6 31.8 47.6#



#62
 1,3,5-Trimethylbenzene
 Concen: 0.001 ug/L
 RT: 10.545 min Scan# 2956
 Delta R.T. 0.006 min
 Lab File: VV023634.D
 Acq: 19 Nov 2021 11:30

Tgt Ion: 105 Resp: 19
 Ion Ratio Lower Upper
 105 100
 120 0.0 39.7 59.5#





#63

1,2,4-Trimethylbenzene

Concen: 0.008 ug/L

RT: 10.918 min Scan# 3071

Delta R.T. 0.003 min

Lab File: VV023634.D

Acq: 19 Nov 2021 11:30

Instrument :

MSVOA_V

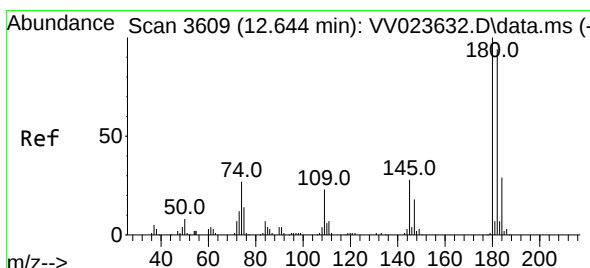
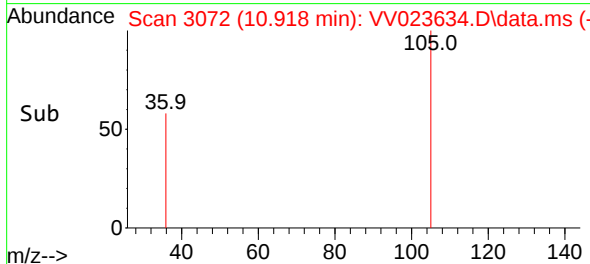
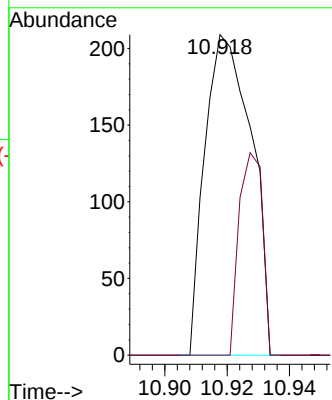
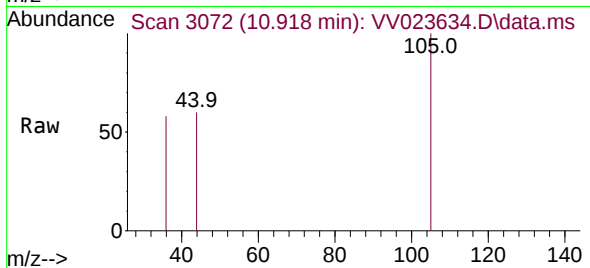
ClientSampleId :

Tgt Ion:105 Resp: 216

Ion Ratio Lower Upper

105 100

120 31.9 37.4 56.2#



#69

1,3,5-Trichlorobenzene

Concen: 0.005 ug/L

RT: 12.657 min Scan# 3613

Delta R.T. 0.013 min

Lab File: VV023634.D

Acq: 19 Nov 2021 11:30

Tgt Ion:180 Resp: 67

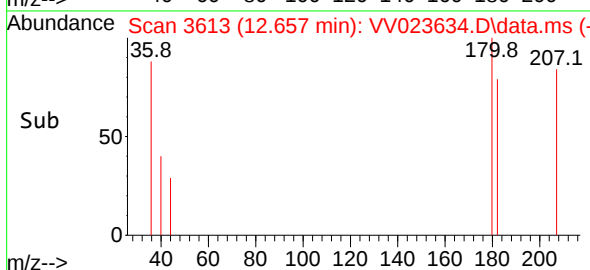
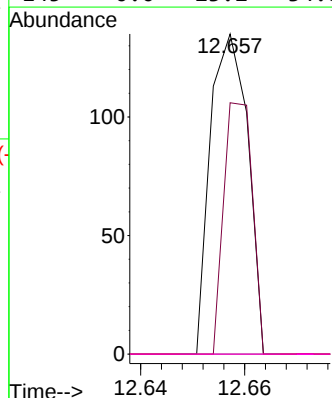
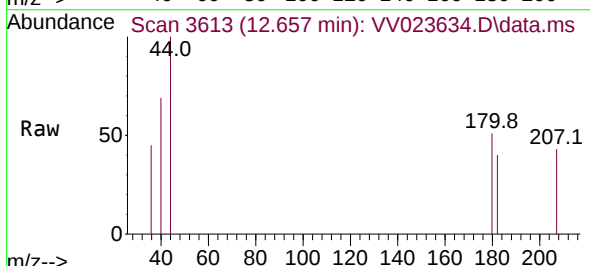
Ion Ratio Lower Upper

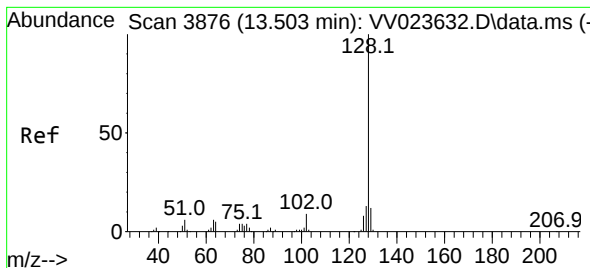
180 100

182 61.2 74.9 112.3#

184 0.0 23.8 35.8#

145 0.0 23.2 34.8#





#71

Naphthalene

Concen: 0.015 ug/L

RT: 13.522 min Scan# 3882

Delta R.T. 0.019 min

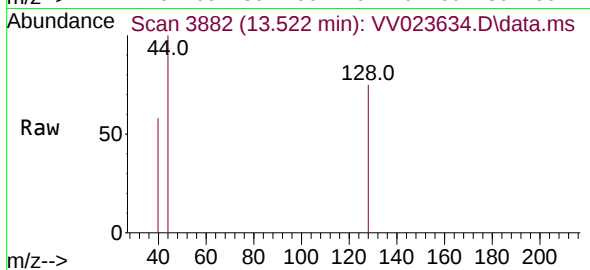
Lab File: VV023634.D

Acq: 19 Nov 2021 11:30

Instrument :

MSVOA_V

ClientSampleId :



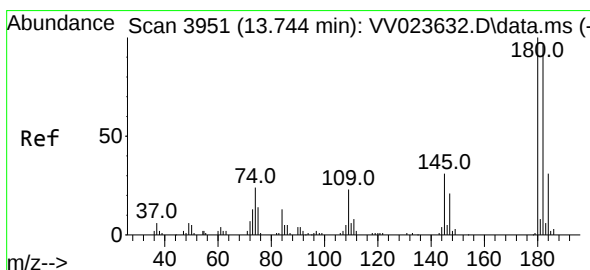
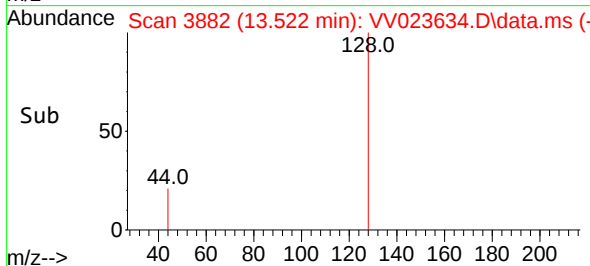
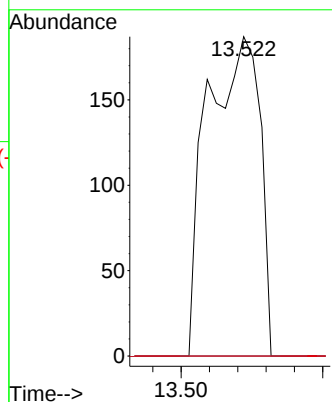
Tgt Ion:128 Resp: 239

Ion Ratio Lower Upper

128 100

129 0.0 8.6 13.0#

127 0.0 10.5 15.7#



#72

1,2,3-Trichlorobenzene

Concen: 0.002 ug/L

RT: 13.744 min Scan# 3951

Delta R.T. -0.000 min

Lab File: VV023634.D

Acq: 19 Nov 2021 11:30

Tgt Ion:180 Resp: 19

Ion Ratio Lower Upper

180 100

182 0.0 76.7 115.1#

145 0.0 25.7 38.5#

