

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111921\
 Data File : VW023637.D
 Acq On : 19 Nov 2021 12:41
 Operator : SY/MD
 Sample : M4706-10
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 22 01:46:27 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	5.619	114	110766	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	110147	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	49470	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	30629	4.414	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.200%
7) Chloroethane-d5	1.568	69	26215	4.635	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.800%
11) 1,1-Dichloroethene-d2	2.108	63	44071	3.393	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.800%
20) 2-Butanone-d5	3.908	46	37980	31.770	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	63.540%
24) Chloroform-d	4.349	84	64597	4.368	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.400%
26) 1,2-Dichloroethane-d4	5.037	65	30795	4.631	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.600%
32) Benzene-d6	5.050	84	119147	4.216	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.400%
36) 1,2-Dichloropropane-d6	6.072	67	35617	4.281	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	85.600%
41) Toluene-d8	7.317	98	99897	3.772	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.400%
43) trans-1,3-Dichloroprop...	7.629	79	12640	4.007	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.200%
46) 2-Hexanone-d5	8.092	63	42447	36.572	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	73.140%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	24473	4.091	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	81.800%
66) 1,2-Dichlorobenzene-d4	11.625	152	40528	4.920	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.400%
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	2848	0.310	ug/L	94
5) Vinyl chloride	1.307	62	249	0.027	ug/L #	1
6) Bromomethane	1.523	94	80	0.014	ug/L	79
8) Chloroethane	1.587	64	159	0.030	ug/L #	43
10) 1,1,2-Trichloro-1,2,2-...	2.108	101	389	0.056	ug/L #	18
12) 1,1-Dichloroethene	2.105	96	316	0.048	ug/L #	1
13) Acetone	2.185	43	1932	2.645	ug/L	82
14) Carbon disulfide	2.298	76	239	0.010	ug/L #	75
15) Methyl Acetate	2.526	43	201	0.097	ug/L #	47
16) Methylene chloride	2.507	84	24154	2.506	ug/L	98
21) 2-Butanone	3.989	43	189	0.160	ug/L #	51
25) Chloroform	4.378	83	18631	1.275	ug/L	98
27) 1,2-Dichloroethane	5.053	62	659	0.085	ug/L #	72
33) Benzene	5.108	78	42	0.001	ug/L	100
35) Methylcyclohexane	6.072	83	9107	0.705	ug/L #	18
37) 1,2-Dichloropropane	6.076	63	4213	0.586	ug/L #	83
38) Bromodichloromethane	6.526	83	1730	0.180	ug/L #	96
39) cis-1,3-Dichloropropene	6.992	75	1065	0.103	ug/L #	63
40) 4-Methyl-2-pentanone	7.288	43	43	0.013	ug/L #	44

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

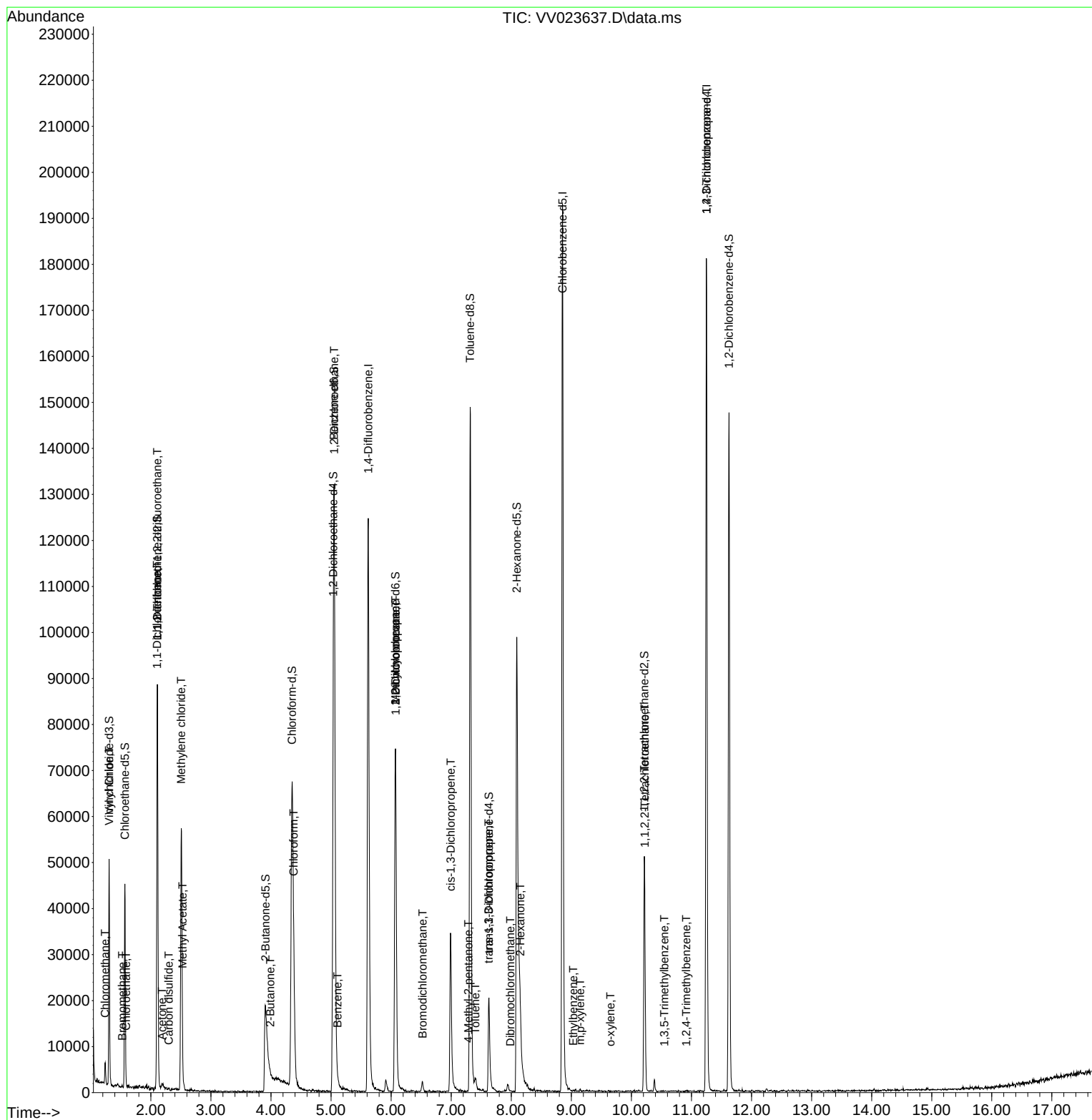
42) Toluene	7.403	91	1813	0.055	ug/L	83
44) trans-1,3-Dichloropropene	7.622	75	193	0.023	ug/L #	47
48) 2-Hexanone	8.149	43	5135	2.198	ug/L #	66
49) Dibromochloromethane	7.985	129	42	0.006	ug/L #	10
52) Ethylbenzene	9.034	91	64	0.002	ug/L #	42
53) m,p-xylene	9.146	106	70	0.005	ug/L	89
54) o-xylene	9.651	106	20	0.002	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.223	83	45	0.008	ug/L #	1
61) 1,2,3-Trichloropropane	11.249	75	5203	1.583	ug/L #	66
62) 1,3,5-Trimethylbenzene	10.548	105	41	0.002	ug/L #	28
63) 1,2,4-Trimethylbenzene	10.911	105	48	0.002	ug/L #	30

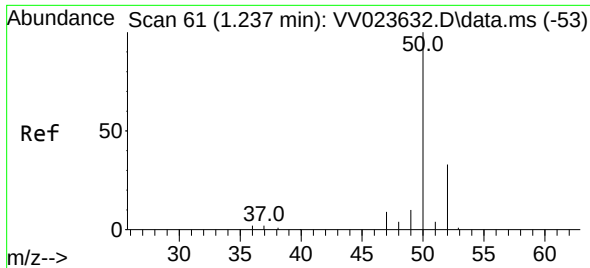
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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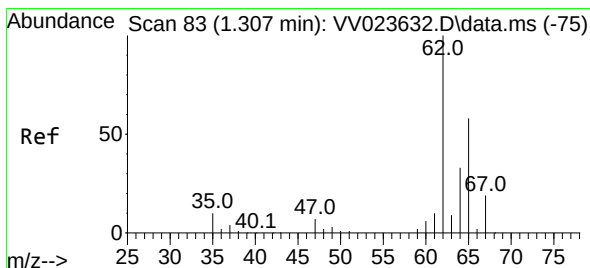
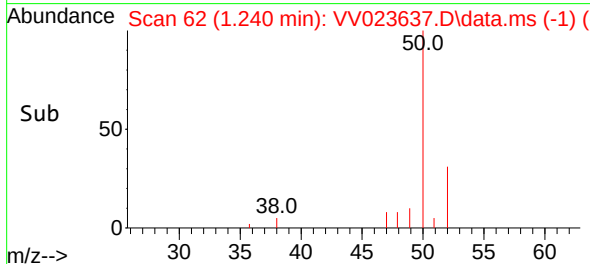
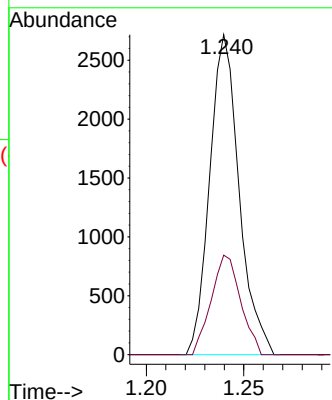
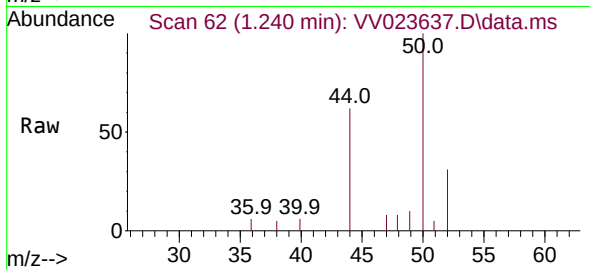




#3
Chloromethane
Concen: 0.310 ug/L
RT: 1.240 min Scan# 61
Delta R.T. 0.003 min
Lab File: VV023637.D
Acq: 19 Nov 2021 12:41

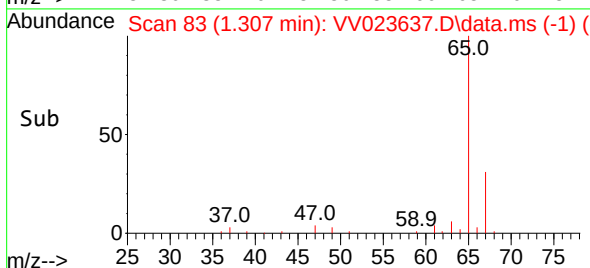
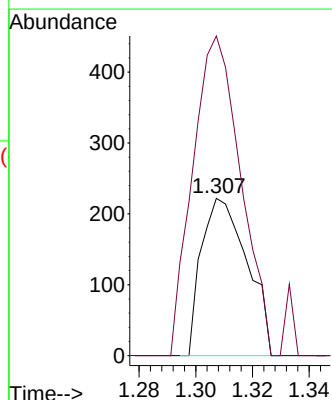
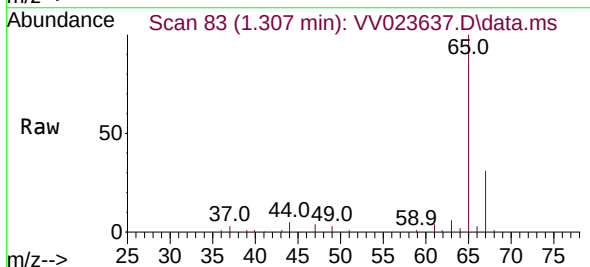
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MSVOA_V
ClientSampleId :

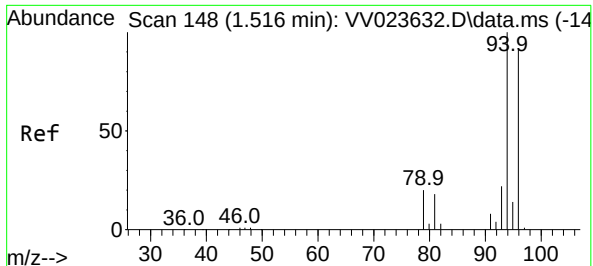
Tgt Ion: 50 Resp: 2848
Ion Ratio Lower Upper
50 100
52 31.1 24.3 45.1



#5
Vinyl chloride
Concen: 0.027 ug/L
RT: 1.307 min Scan# 83
Delta R.T. 0.000 min
Lab File: VV023637.D
Acq: 19 Nov 2021 12:41

Tgt Ion: 62 Resp: 249
Ion Ratio Lower Upper
62 100
64 203.2 23.1 42.9

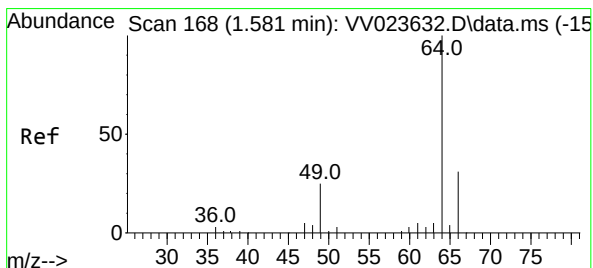
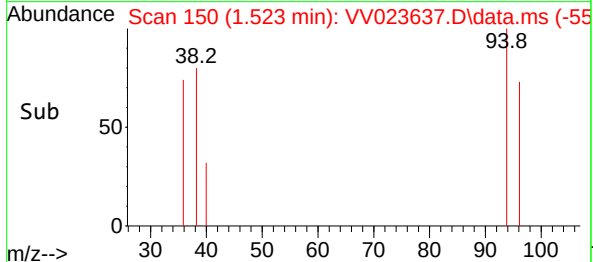
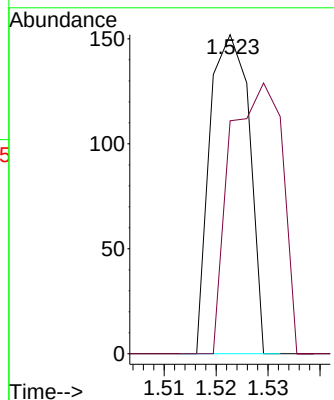
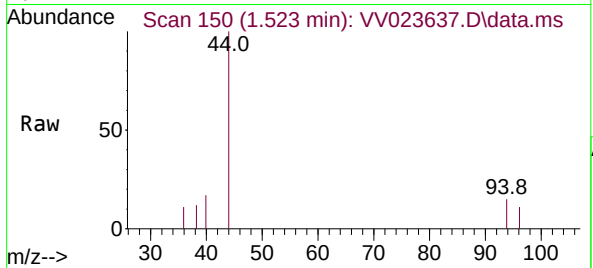




#6
Bromomethane
Concen: 0.014 ug/L
RT: 1.523 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV023637.D
Acq: 19 Nov 2021 12:41

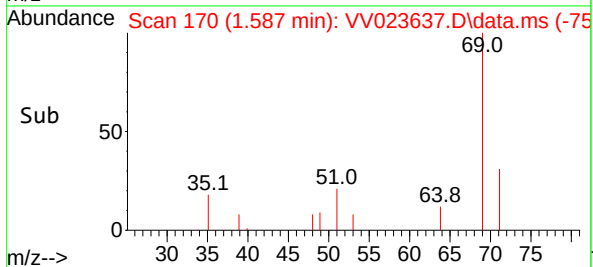
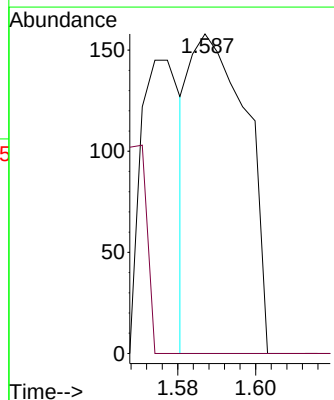
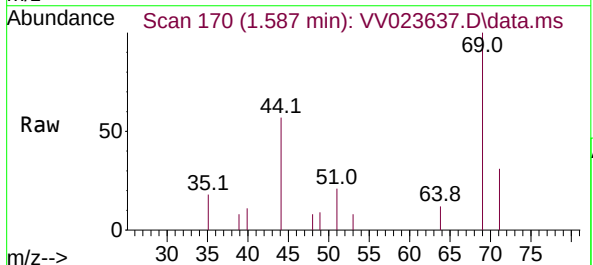
Instrument :
MSVOA_V
ClientSampleId :

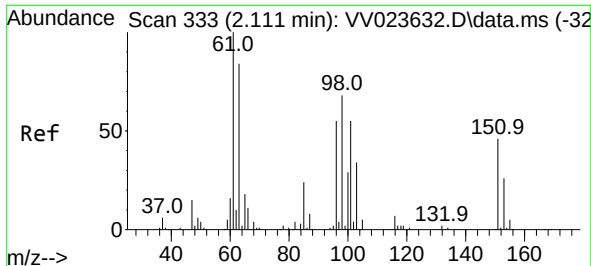
Tgt Ion: 94 Resp: 80
Ion Ratio Lower Upper
94 100
96 73.0 65.0 120.8



#8
Chloroethane
Concen: 0.030 ug/L
RT: 1.587 min Scan# 170
Delta R.T. 0.006 min
Lab File: VV023637.D
Acq: 19 Nov 2021 12:41

Tgt Ion: 64 Resp: 159
Ion Ratio Lower Upper
64 100
66 0.0 22.1 41.1#

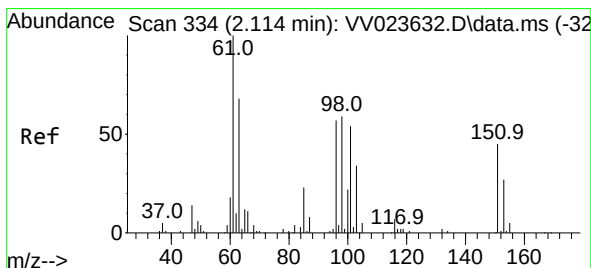
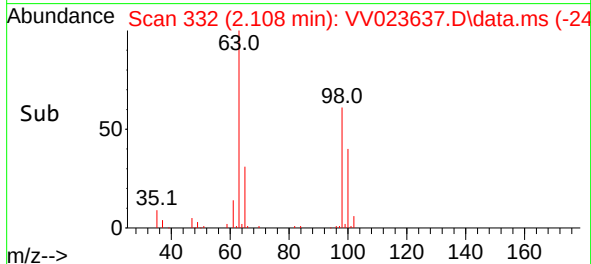
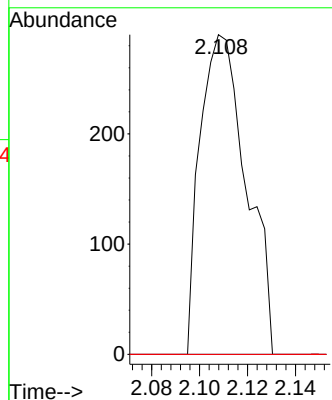
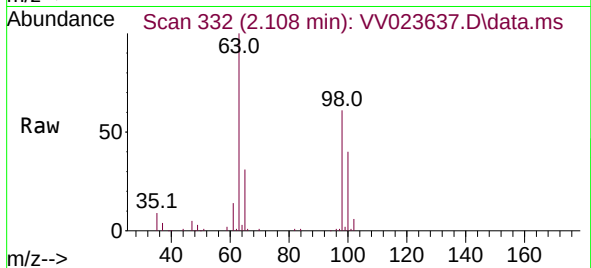




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.056 ug/L
 RT: 2.108 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VV023637.D
 Acq: 19 Nov 2021 12:41

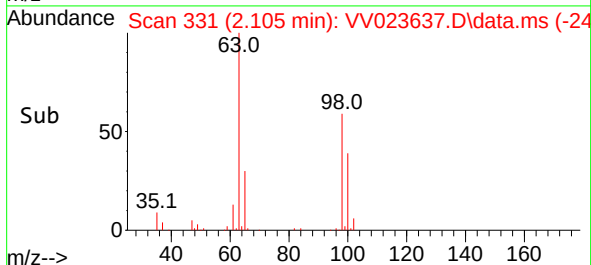
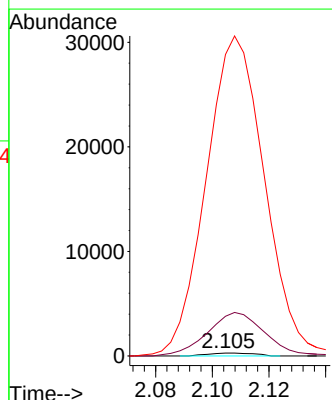
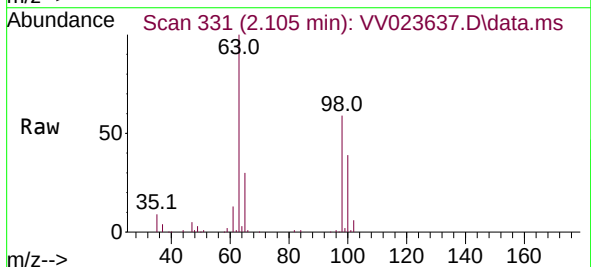
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 ClientSampleId :

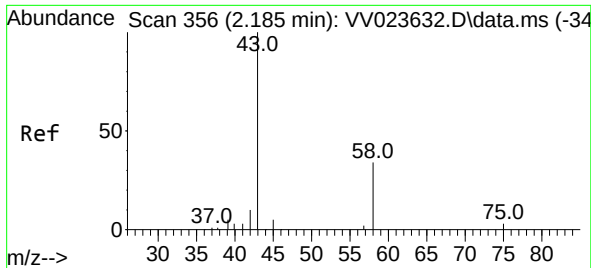
Tgt Ion:101 Resp: 389
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.3 52.9#
 151 0.0 62.2 93.2#



#12
 1,1-Dichloroethene
 Concen: 0.048 ug/L
 RT: 2.105 min Scan# 331
 Delta R.T. -0.010 min
 Lab File: VV023637.D
 Acq: 19 Nov 2021 12:41

Tgt Ion: 96 Resp: 316
 Ion Ratio Lower Upper
 96 100
 61 1349.8 121.5 225.7#
 63 10260.5 99.6 185.0#





#13

Acetone

Concen: 2.645 ug/L

RT: 2.185 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV023637.D

Acq: 19 Nov 2021 12:41

Instrument :

MSVOA_V

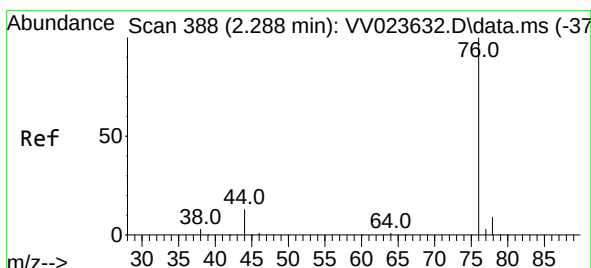
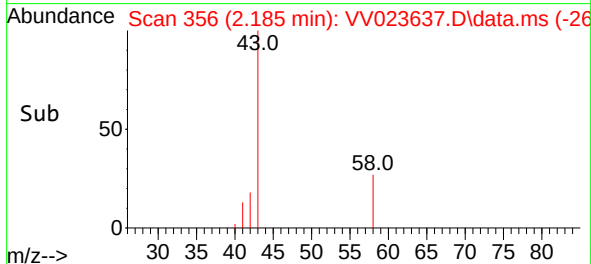
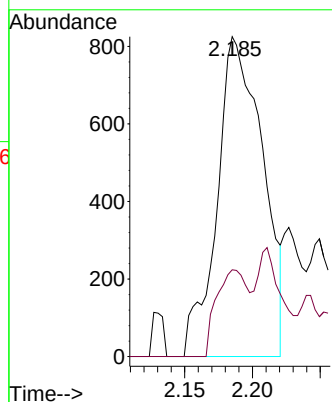
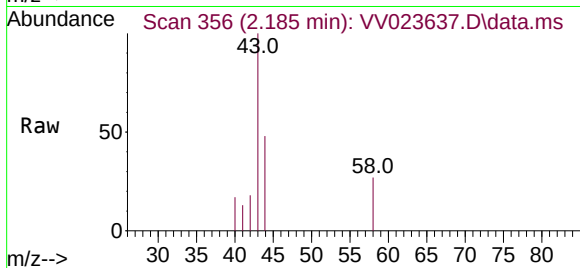
ClientSampleId :

Tgt Ion: 43 Resp: 1932

Ion Ratio Lower Upper

43 100

58 18.2 0.0 55.4



#14

Carbon disulfide

Concen: 0.010 ug/L

RT: 2.298 min Scan# 391

Delta R.T. 0.010 min

Lab File: VV023637.D

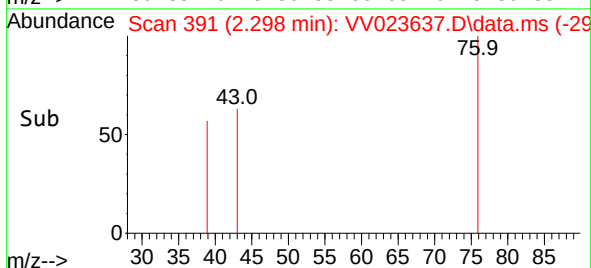
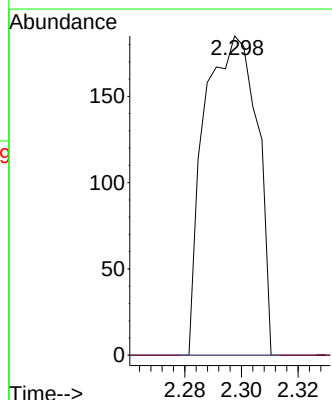
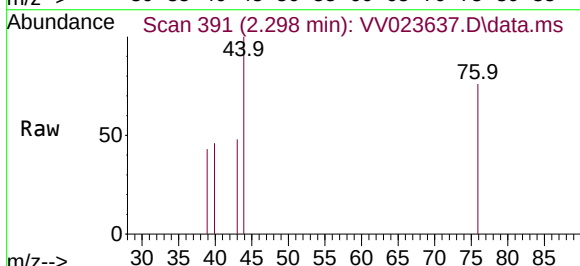
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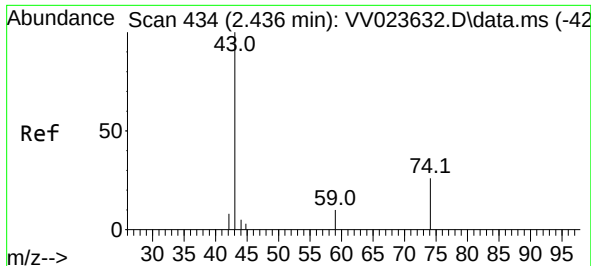
Tgt Ion: 76 Resp: 239

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

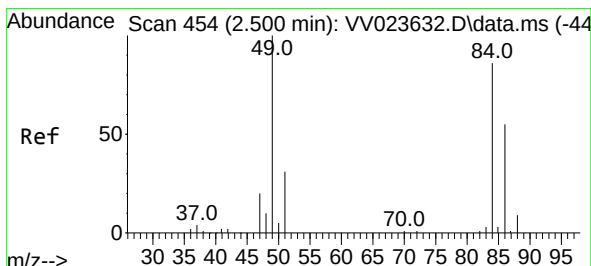
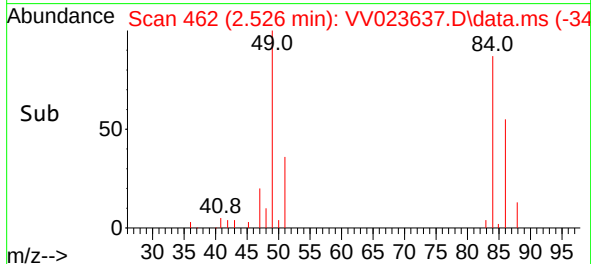
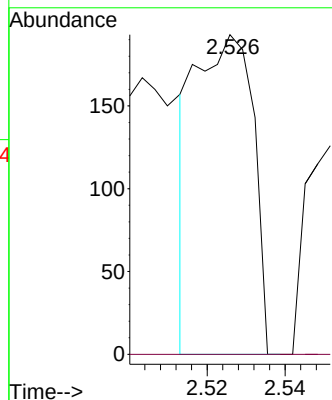
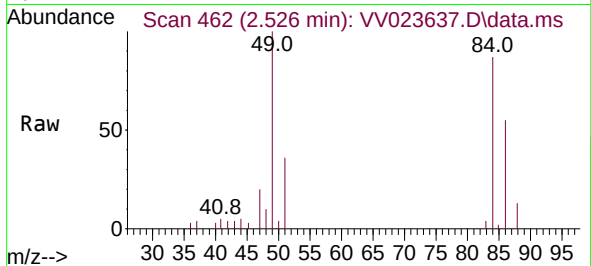




#15
Methyl Acetate
Concen: 0.097 ug/L
RT: 2.526 min Scan# 41
Delta R.T. 0.090 min
Lab File: VV023637.D
Acq: 19 Nov 2021 12:41

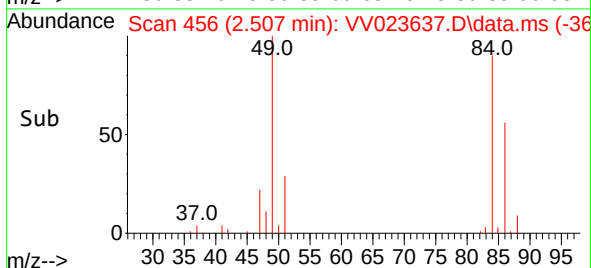
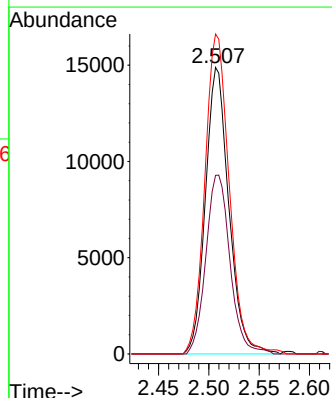
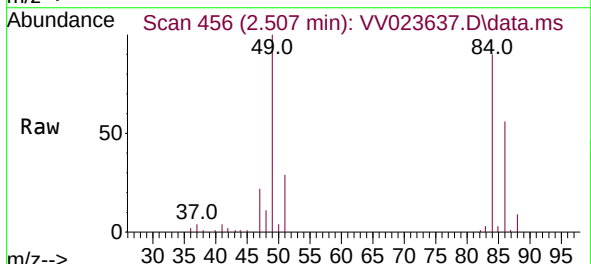
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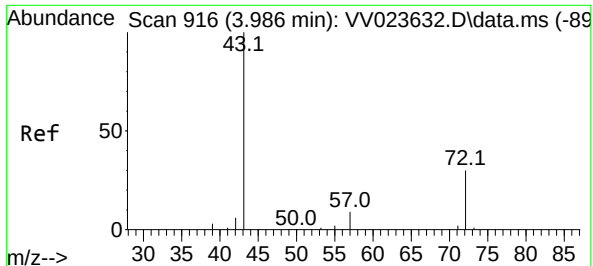
Tgt Ion: 43 Resp: 201
Ion Ratio Lower Upper
43 100
74 0.0 22.2 33.2#



#16
Methylene chloride
Concen: 2.506 ug/L
RT: 2.507 min Scan# 456
Delta R.T. 0.006 min
Lab File: VV023637.D
Acq: 19 Nov 2021 12:41

Tgt Ion: 84 Resp: 24154
Ion Ratio Lower Upper
84 100
86 62.3 42.3 78.5
49 111.7 79.7 148.1

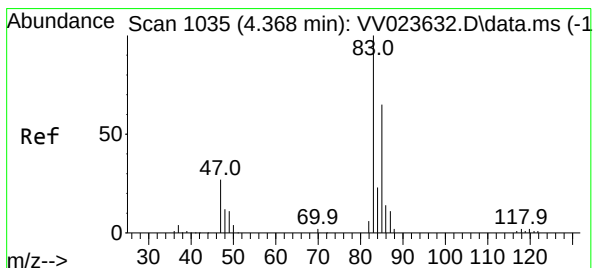
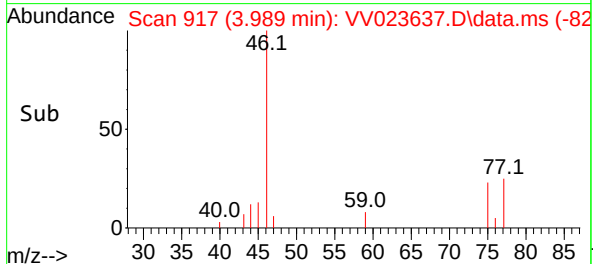
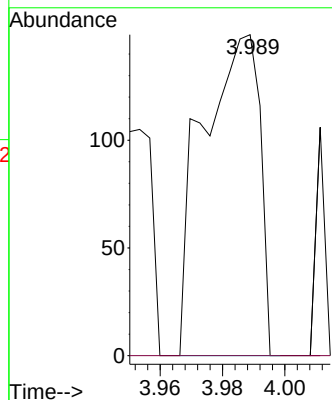
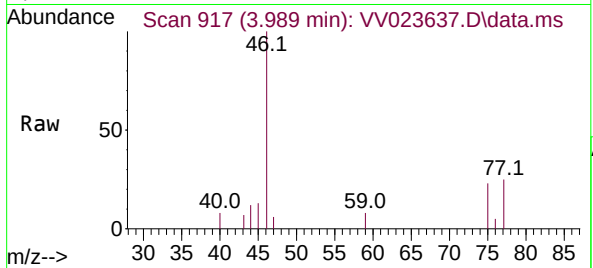




#21
2-Butanone
Concen: 0.160 ug/L
RT: 3.989 min Scan# 916
Delta R.T. 0.003 min
Lab File: VV023637.D
Acq: 19 Nov 2021 12:41

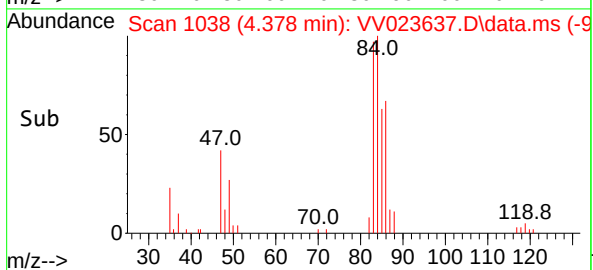
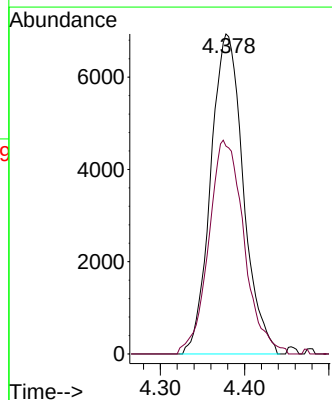
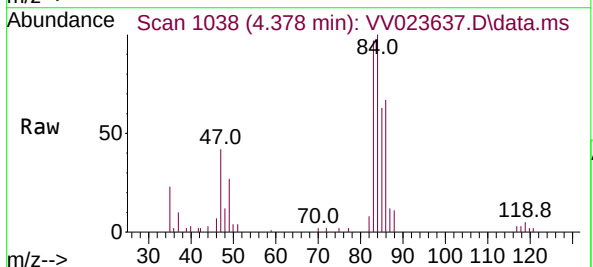
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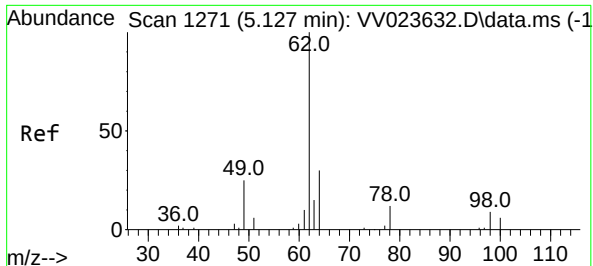
Tgt Ion: 43 Resp: 189
Ion Ratio Lower Upper
43 100
72 0.0 11.9 35.9#



#25
Chloroform
Concen: 1.275 ug/L
RT: 4.378 min Scan# 1038
Delta R.T. 0.010 min
Lab File: VV023637.D
Acq: 19 Nov 2021 12:41

Tgt Ion: 83 Resp: 18631
Ion Ratio Lower Upper
83 100
85 64.9 46.8 86.8





#27

1,2-Dichloroethane

Concen: 0.085 ug/L

RT: 5.053 min Scan# 11

Delta R.T. -0.074 min

Lab File: VV023637.D

Acq: 19 Nov 2021 12:41

Instrument :

MSVOA_V

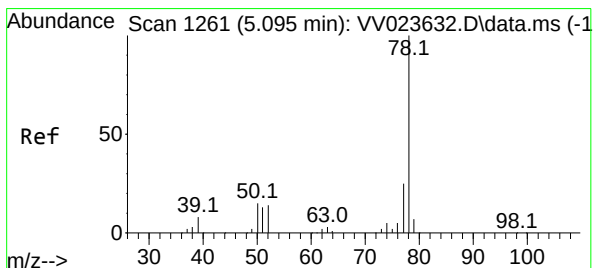
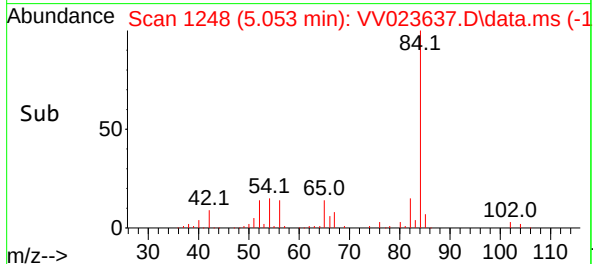
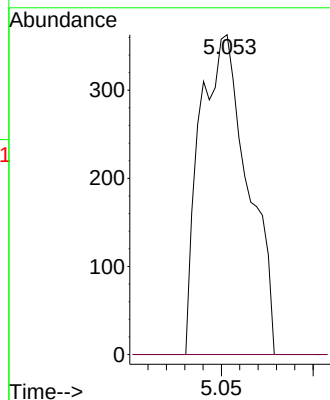
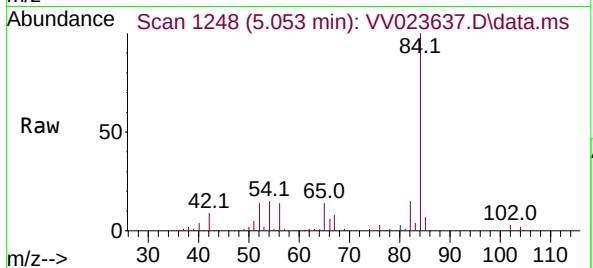
ClientSampleId :

Tgt Ion: 62 Resp: 659

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#



#33

Benzene

Concen: 0.001 ug/L

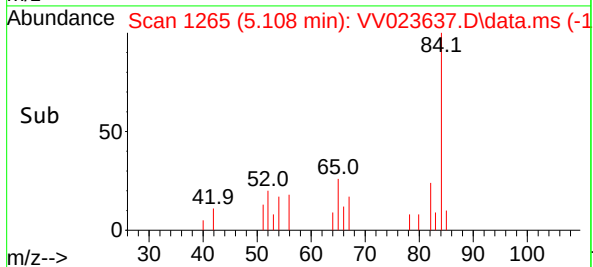
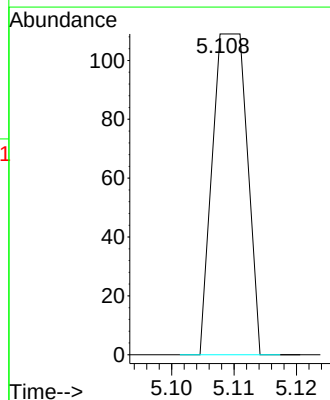
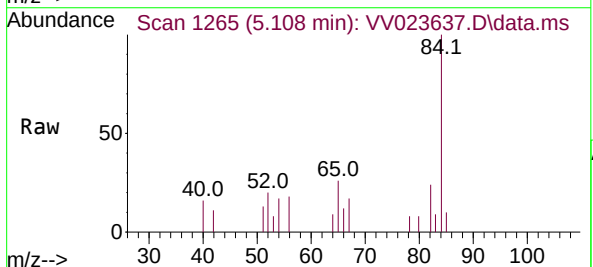
RT: 5.108 min Scan# 1265

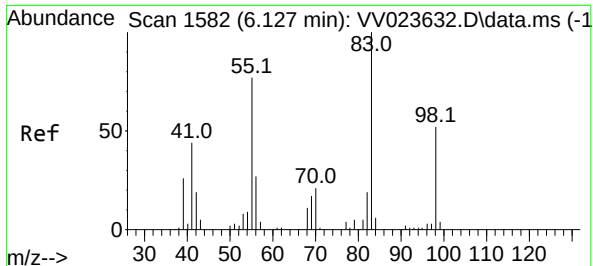
Delta R.T. 0.013 min

Lab File: VV023637.D

Acq: 19 Nov 2021 12:41

Tgt Ion: 78 Resp: 42





#35

Methylcyclohexane

Concen: 0.705 ug/L

RT: 6.072 min Scan# 1565

Delta R.T. -0.055 min

Lab File: VV023637.D

Acq: 19 Nov 2021 12:41

Instrument :

MSVOA_V

ClientSampleId :

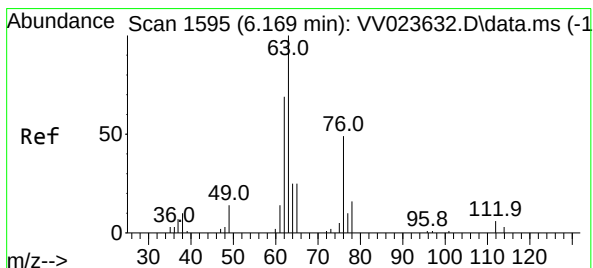
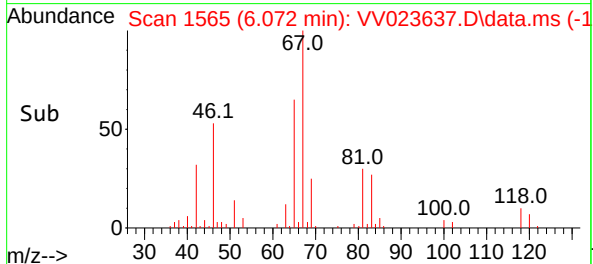
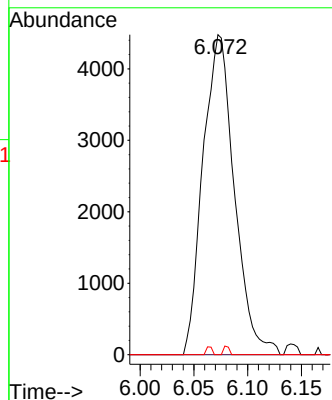
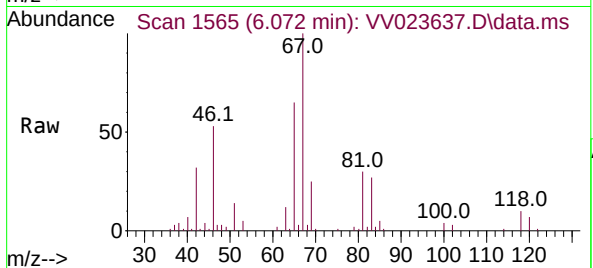
Tgt Ion: 83 Resp: 9107

Ion Ratio Lower Upper

83 100

55 0.0 62.8 94.2#

98 0.5 37.9 56.9#



#37

1,2-Dichloropropane

Concen: 0.586 ug/L

RT: 6.076 min Scan# 1566

Delta R.T. -0.093 min

Lab File: VV023637.D

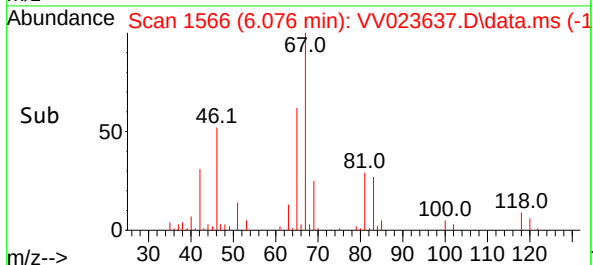
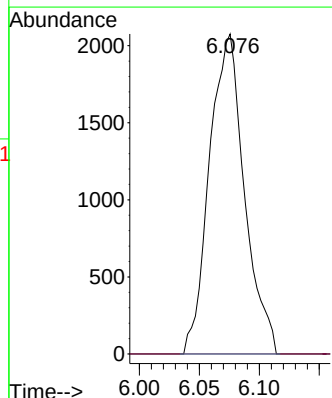
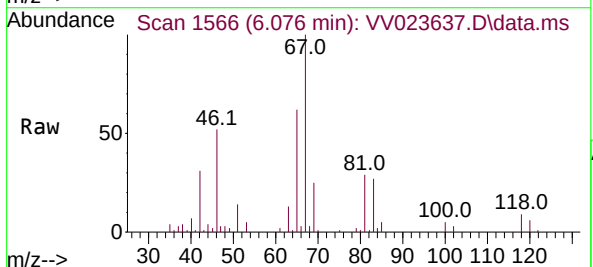
Acq: 19 Nov 2021 12:41

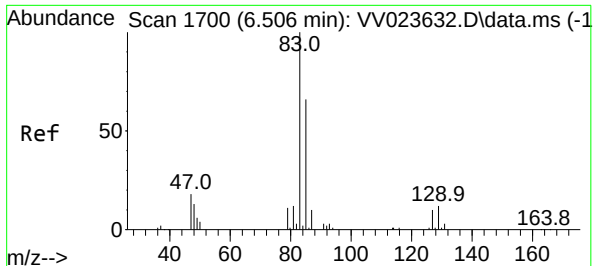
Tgt Ion: 63 Resp: 4213

Ion Ratio Lower Upper

63 100

112 0.0 4.6 6.8#

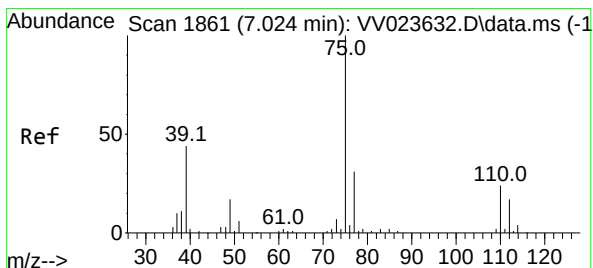
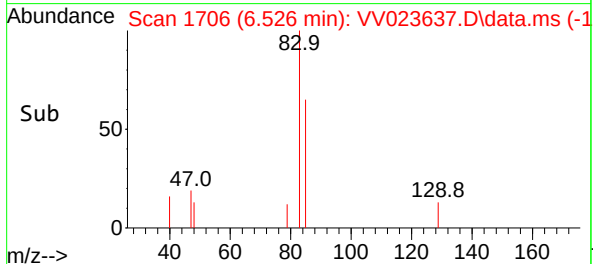
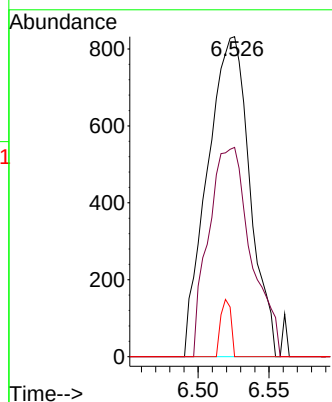
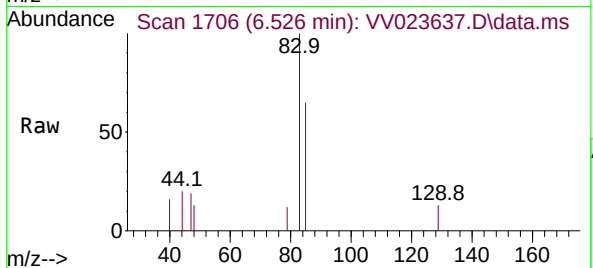




#38
Bromodichloromethane
Concen: 0.180 ug/L
RT: 6.526 min Scan# 1706
Delta R.T. 0.019 min
Lab File: VV023637.D
Acq: 19 Nov 2021 12:41

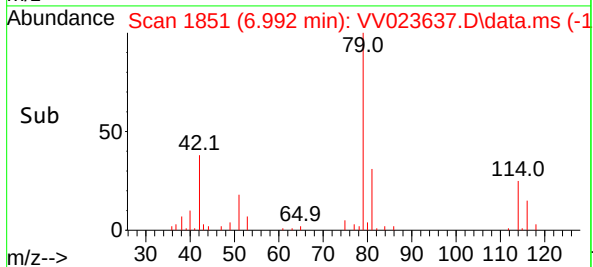
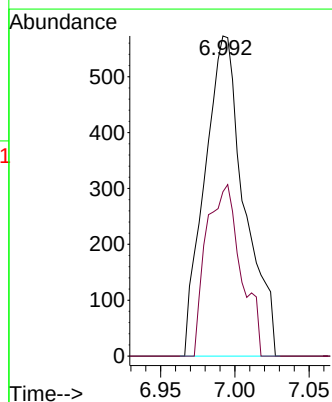
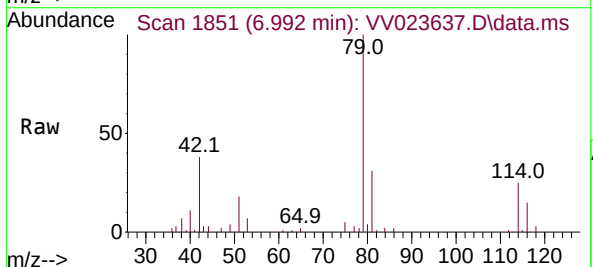
Instrument :
MSVOA_V
ClientSampleId :

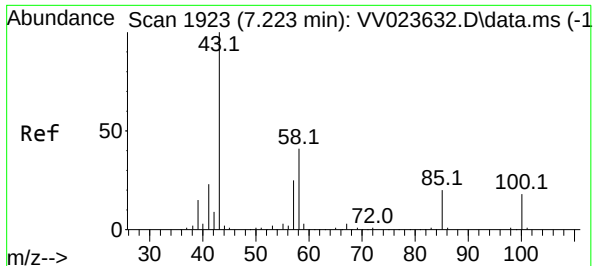
Tgt Ion: 83 Resp: 1730
Ion Ratio Lower Upper
83 100
85 65.4 46.1 85.7
127 0.0 7.2 10.8#



#39
cis-1,3-Dichloropropene
Concen: 0.103 ug/L
RT: 6.992 min Scan# 1851
Delta R.T. -0.032 min
Lab File: VV023637.D
Acq: 19 Nov 2021 12:41

Tgt Ion: 75 Resp: 1065
Ion Ratio Lower Upper
75 100
77 51.3 21.6 40.2#





#40

4-Methyl-2-pentanone

Concen: 0.013 ug/L

RT: 7.288 min Scan# 1923

Delta R.T. 0.064 min

Lab File: VV023637.D

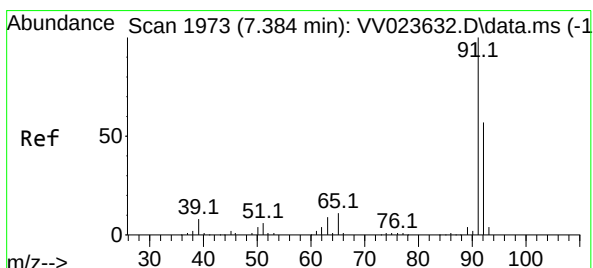
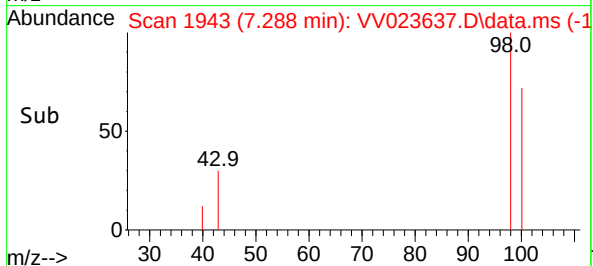
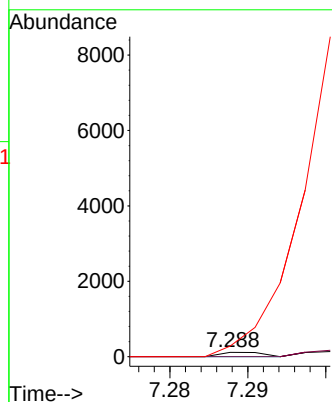
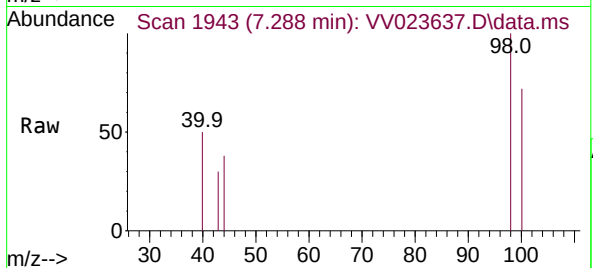
Acq: 19 Nov 2021 12:41

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 43	Resp:	43
Ion	Ratio	Lower Upper
43	100	
58	0.0	31.1 46.7#
100	0.0	12.6 19.0#



#42

Toluene

Concen: 0.055 ug/L

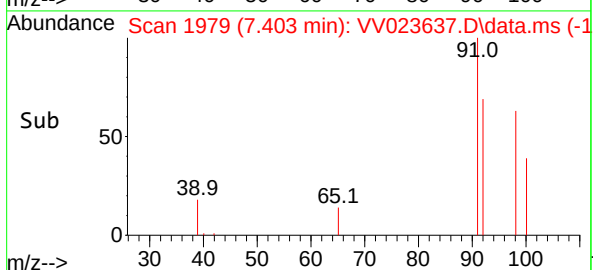
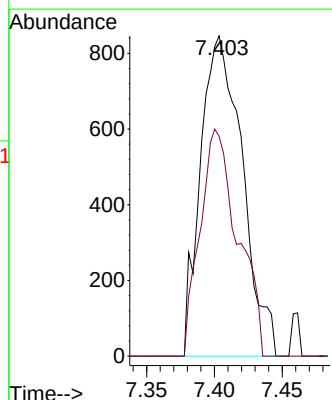
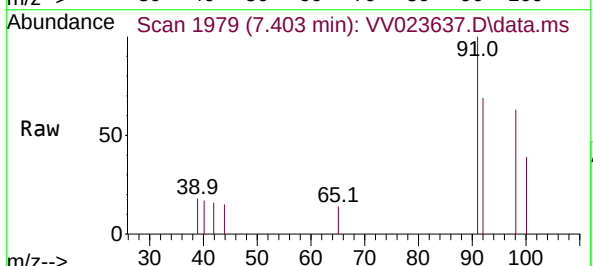
RT: 7.403 min Scan# 1979

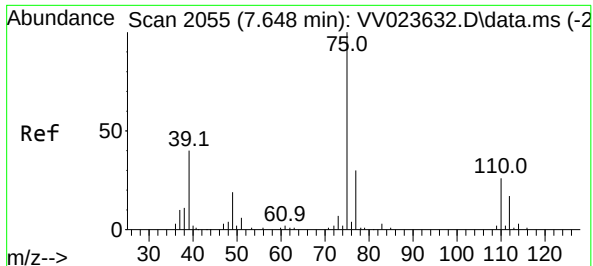
Delta R.T. 0.019 min

Lab File: VV023637.D

Acq: 19 Nov 2021 12:41

Tgt Ion: 91	Resp:	1813
Ion	Ratio	Lower Upper
91	100	
92	68.7	39.3 72.9





#44

trans-1,3-Dichloropropene

Concen: 0.023 ug/L

RT: 7.622 min Scan# 2055

Delta R.T. -0.026 min

Lab File: VV023637.D

Acq: 19 Nov 2021 12:41

Instrument :

MSVOA_V

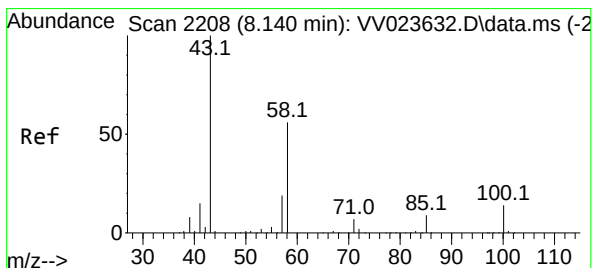
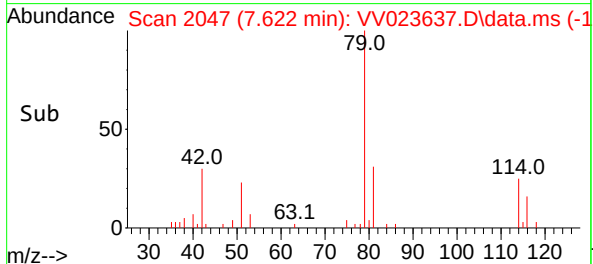
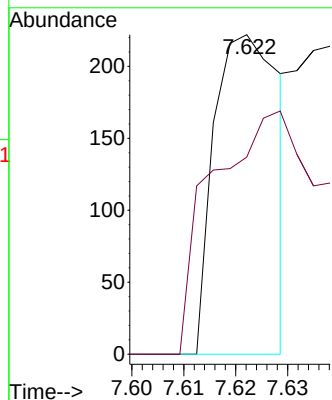
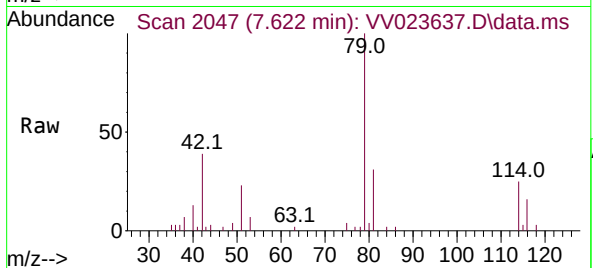
ClientSampleId :

Tgt Ion: 75 Resp: 193

Ion Ratio Lower Upper

75 100

77 61.7 22.5 41.7#



#48

2-Hexanone

Concen: 2.198 ug/L

RT: 8.149 min Scan# 2211

Delta R.T. 0.010 min

Lab File: VV023637.D

Acq: 19 Nov 2021 12:41

Tgt Ion: 43 Resp: 5135

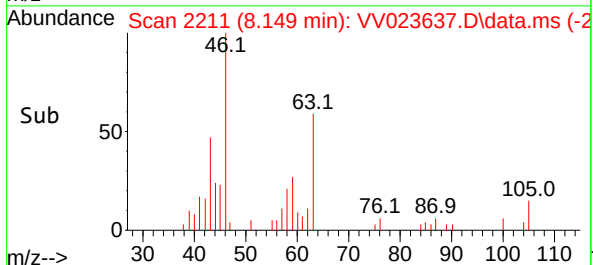
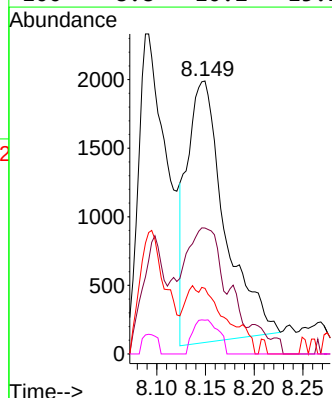
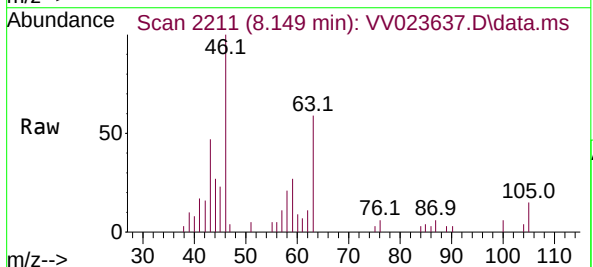
Ion Ratio Lower Upper

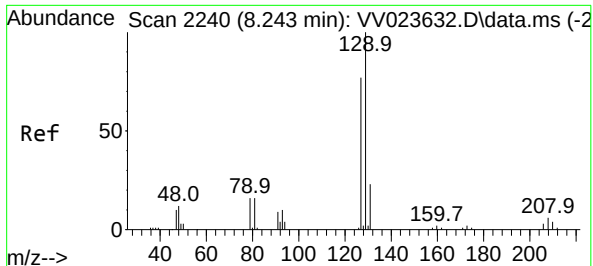
43 100

58 25.6 43.7 65.5#

57 3.6 14.1 21.1#

100 8.8 10.2 15.2#





#49

Dibromochloromethane

Concen: 0.006 ug/L

RT: 7.985 min Scan# 2160

Delta R.T. -0.257 min

Lab File: VV023637.D

Acq: 19 Nov 2021 12:41

Instrument :

MSVOA_V

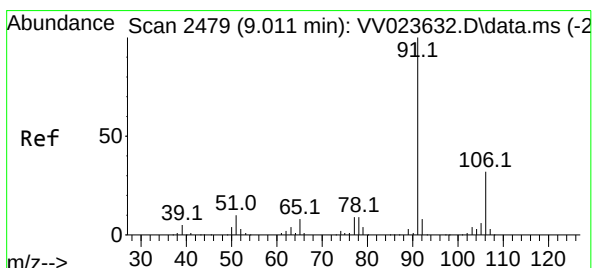
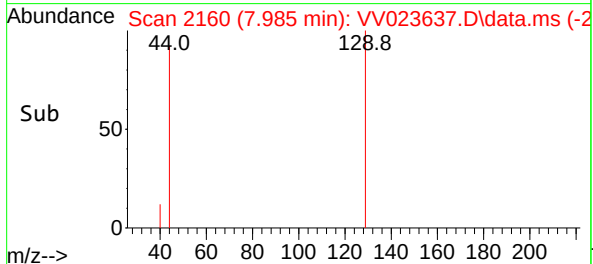
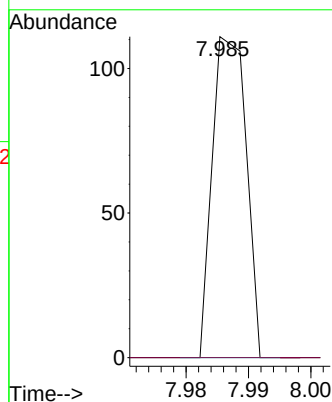
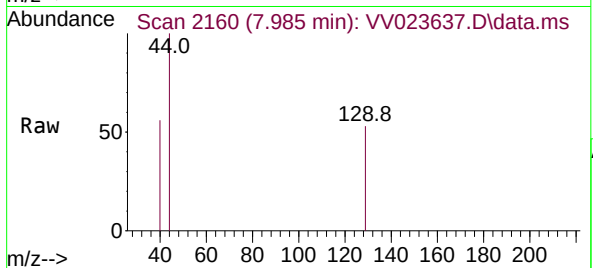
ClientSampleId :

Tgt Ion:129 Resp: 42

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.7#



#52

Ethylbenzene

Concen: 0.002 ug/L

RT: 9.034 min Scan# 2486

Delta R.T. 0.022 min

Lab File: VV023637.D

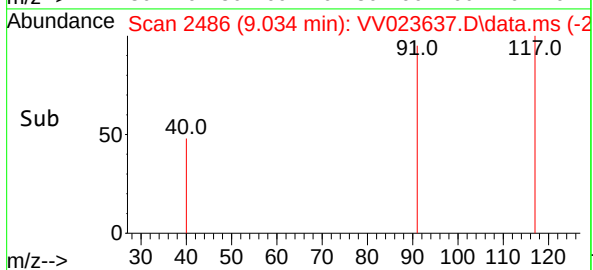
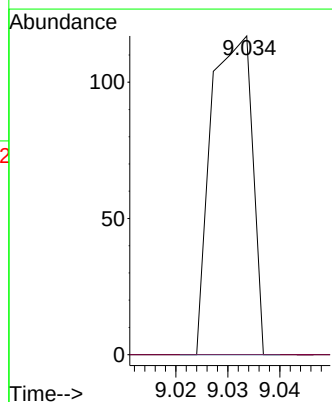
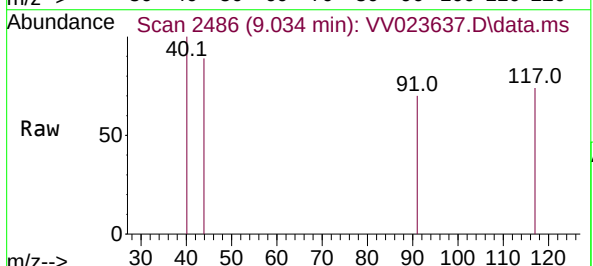
Acq: 19 Nov 2021 12:41

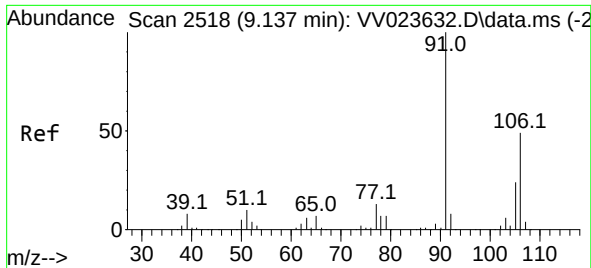
Tgt Ion: 91 Resp: 64

Ion Ratio Lower Upper

91 100

106 0.0 22.5 41.9#

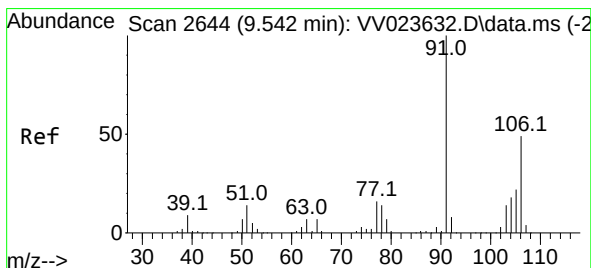
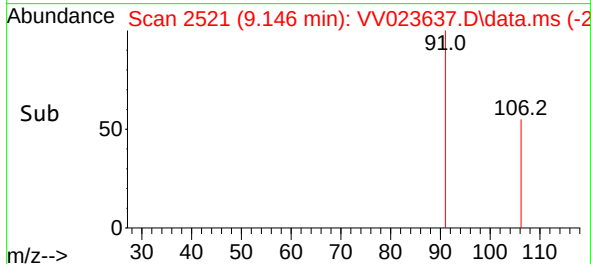
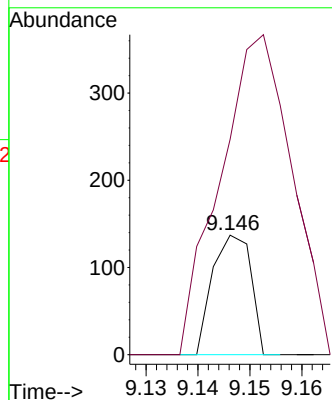
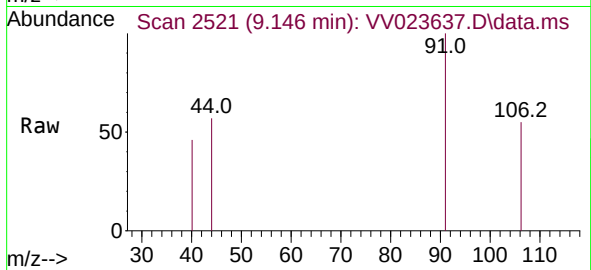




#53
m,p-xylene
Concen: 0.005 ug/L
RT: 9.146 min Scan# 21
Delta R.T. 0.010 min
Lab File: VV023637.D
Acq: 19 Nov 2021 12:41

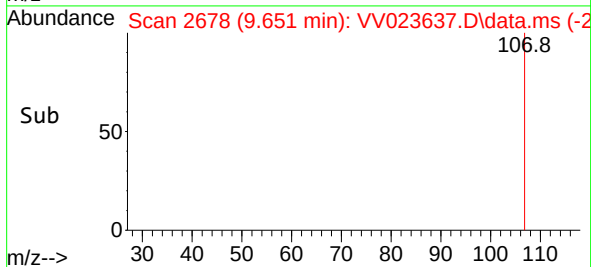
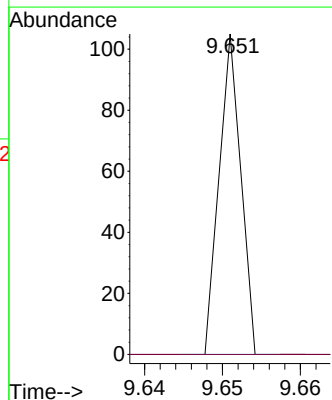
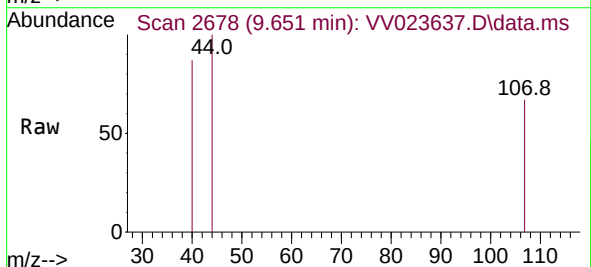
Instrument :
MSVOA_V
ClientSampleId :

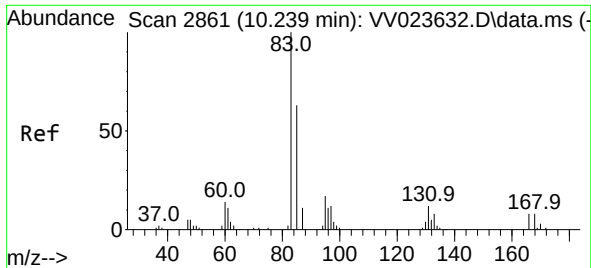
Tgt Ion:106 Resp: 70
Ion Ratio Lower Upper
106 100
91 180.3 137.2 254.8



#54
o-xylene
Concen: 0.002 ug/L
RT: 9.651 min Scan# 2678
Delta R.T. 0.109 min
Lab File: VV023637.D
Acq: 19 Nov 2021 12:41

Tgt Ion:106 Resp: 20
Ion Ratio Lower Upper
106 100
91 0.0 148.3 275.5#





#57

1,1,2,2-Tetrachloroethane

Concen: 0.008 ug/L

RT: 10.223 min Scan# 21

Delta R.T. -0.016 min

Lab File: VV023637.D

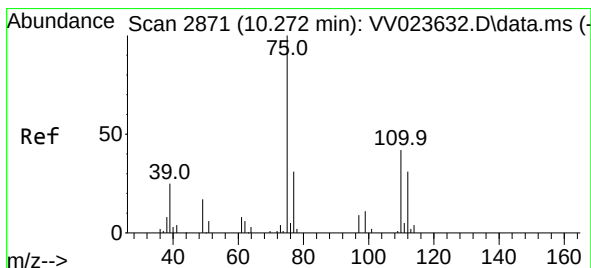
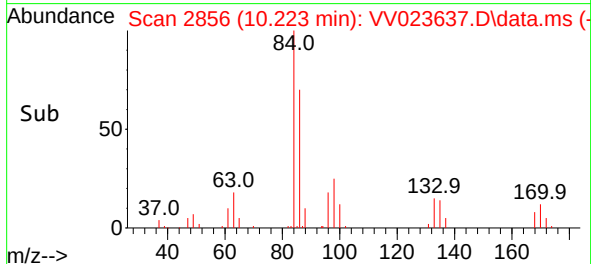
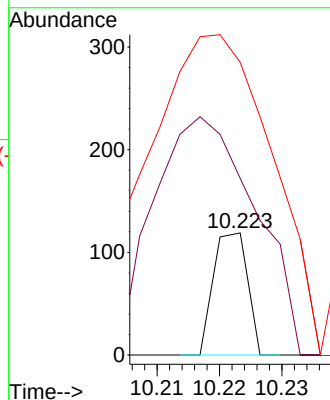
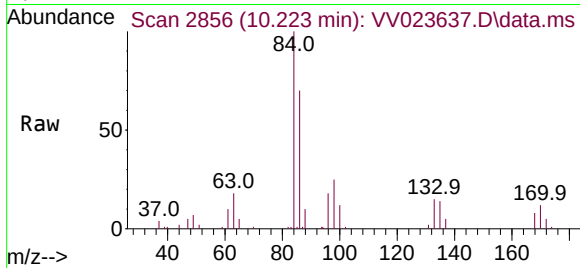
Acq: 19 Nov 2021 12:41

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	83	Resp:	45
Ion	Ratio	Lower	Upper
83	100		
85	144.5	45.1	83.9#
131	239.5	7.8	11.6#



#61

1,2,3-Trichloropropane

Concen: 1.583 ug/L

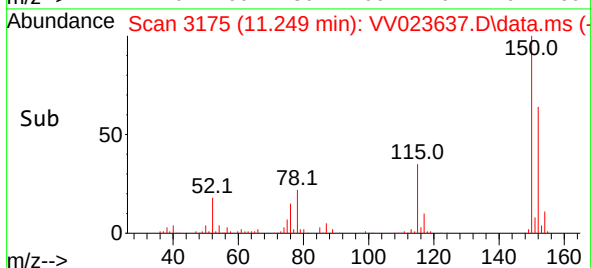
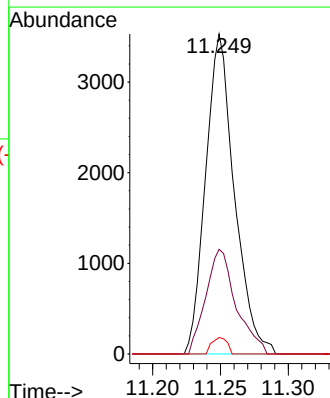
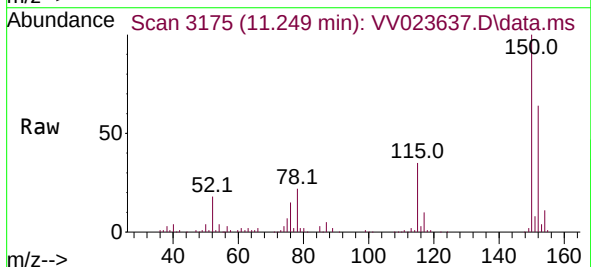
RT: 11.249 min Scan# 3175

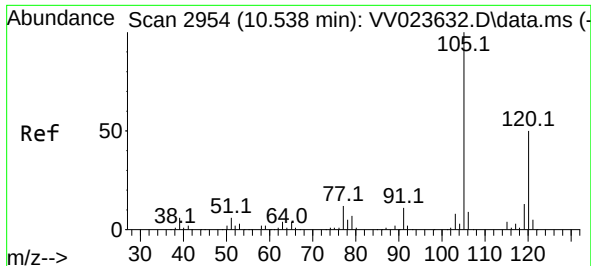
Delta R.T. 0.977 min

Lab File: VV023637.D

Acq: 19 Nov 2021 12:41

Tgt Ion:	75	Resp:	5203
Ion	Ratio	Lower	Upper
75	100		
77	34.4	26.6	39.8
110	2.7	31.8	47.6#





#62

1,3,5-Trimethylbenzene

Concen: 0.002 ug/L

RT: 10.548 min Scan# 2954

Delta R.T. 0.010 min

Lab File: VV023637.D

Acq: 19 Nov 2021 12:41

Instrument :

MSVOA_V

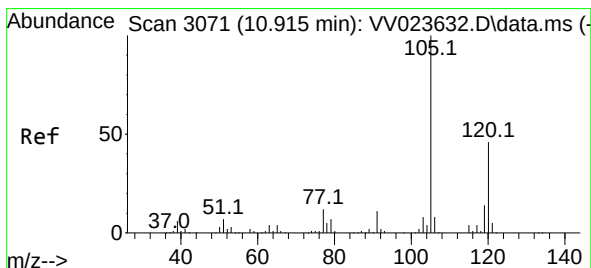
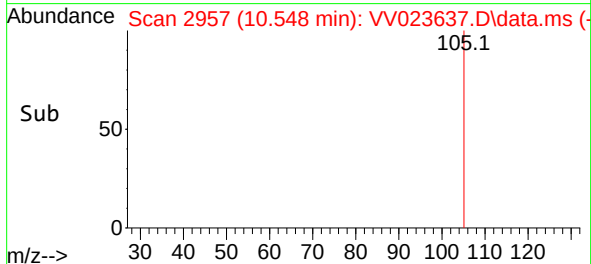
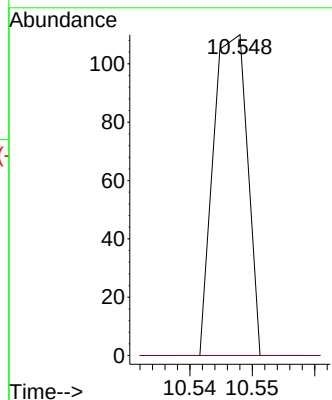
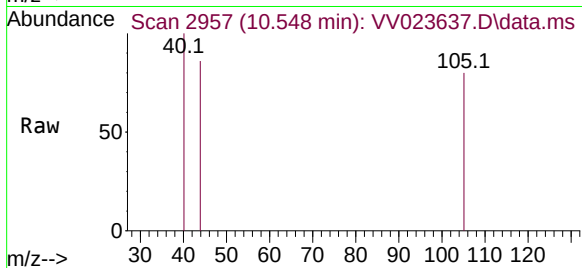
ClientSampleId :

Tgt Ion:105 Resp: 41

Ion Ratio Lower Upper

105 100

120 0.0 39.7 59.5#



#63

1,2,4-Trimethylbenzene

Concen: 0.002 ug/L

RT: 10.911 min Scan# 3070

Delta R.T. -0.003 min

Lab File: VV023637.D

Acq: 19 Nov 2021 12:41

Tgt Ion:105 Resp: 48

Ion Ratio Lower Upper

105 100

120 0.0 37.4 56.2#

