

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111921\
 Data File : VW023648.D
 Acq On : 19 Nov 2021 17:03
 Operator : SY/MD
 Sample : M4706-21
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 22 01:49:49 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	109322	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	108715	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	48270	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	23292	3.401	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	68.000%
7) Chloroethane-d5	1.568	69	20862	3.738	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	74.800%
11) 1,1-Dichloroethene-d2	2.108	63	32484	2.534	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	50.600%#
20) 2-Butanone-d5	3.902	46	39133	33.167	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	66.340%
24) Chloroform-d	4.352	84	54850	3.758	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	75.200%
26) 1,2-Dichloroethane-d4	5.034	65	26224	3.996	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.000%
32) Benzene-d6	5.053	84	91670	3.286	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	65.800%#
36) 1,2-Dichloropropane-d6	6.072	67	29068	3.540	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	70.800%
41) Toluene-d8	7.320	98	75376	2.884	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	57.600%#
43) trans-1,3-Dichloroprop...	7.628	79	10478	3.365	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	67.400%
46) 2-Hexanone-d5	8.091	63	39610	34.577	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	69.160%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	21987	3.723	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	74.400%
66) 1,2-Dichlorobenzene-d4	11.625	152	32610	4.057	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	81.200%
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	4388	0.484	ug/L	93
5) Vinyl chloride	1.304	62	138	0.015	ug/L #	1
6) Bromomethane	1.526	94	85	0.015	ug/L #	3
8) Chloroethane	1.584	64	276	0.053	ug/L #	43
10) 1,1,2-Trichloro-1,2,2-...	2.111	101	305	0.045	ug/L #	18
12) 1,1-Dichloroethene	2.108	96	298	0.046	ug/L #	1
13) Acetone	2.198	43	2895	4.016	ug/L	98
14) Carbon disulfide	2.301	76	201	0.008	ug/L #	75
15) Methyl Acetate	2.436	43	112	0.055	ug/L #	47
16) Methylene chloride	2.510	84	21876	2.299	ug/L	97
21) 2-Butanone	3.979	43	20	0.017	ug/L #	51
25) Chloroform	4.378	83	18703	1.297	ug/L	94
27) 1,2-Dichloroethane	5.040	62	593	0.077	ug/L #	72
33) Benzene	5.063	78	343	0.011	ug/L	100
35) Methylcyclohexane	6.069	83	7557	0.593	ug/L #	21
37) 1,2-Dichloropropane	6.072	63	3359	0.474	ug/L #	83
38) Bromodichloromethane	6.516	83	1727	0.182	ug/L #	85
39) cis-1,3-Dichloropropene	6.992	75	784	0.077	ug/L #	55
40) 4-Methyl-2-pentanone	7.246	43	20	0.006	ug/L #	44

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

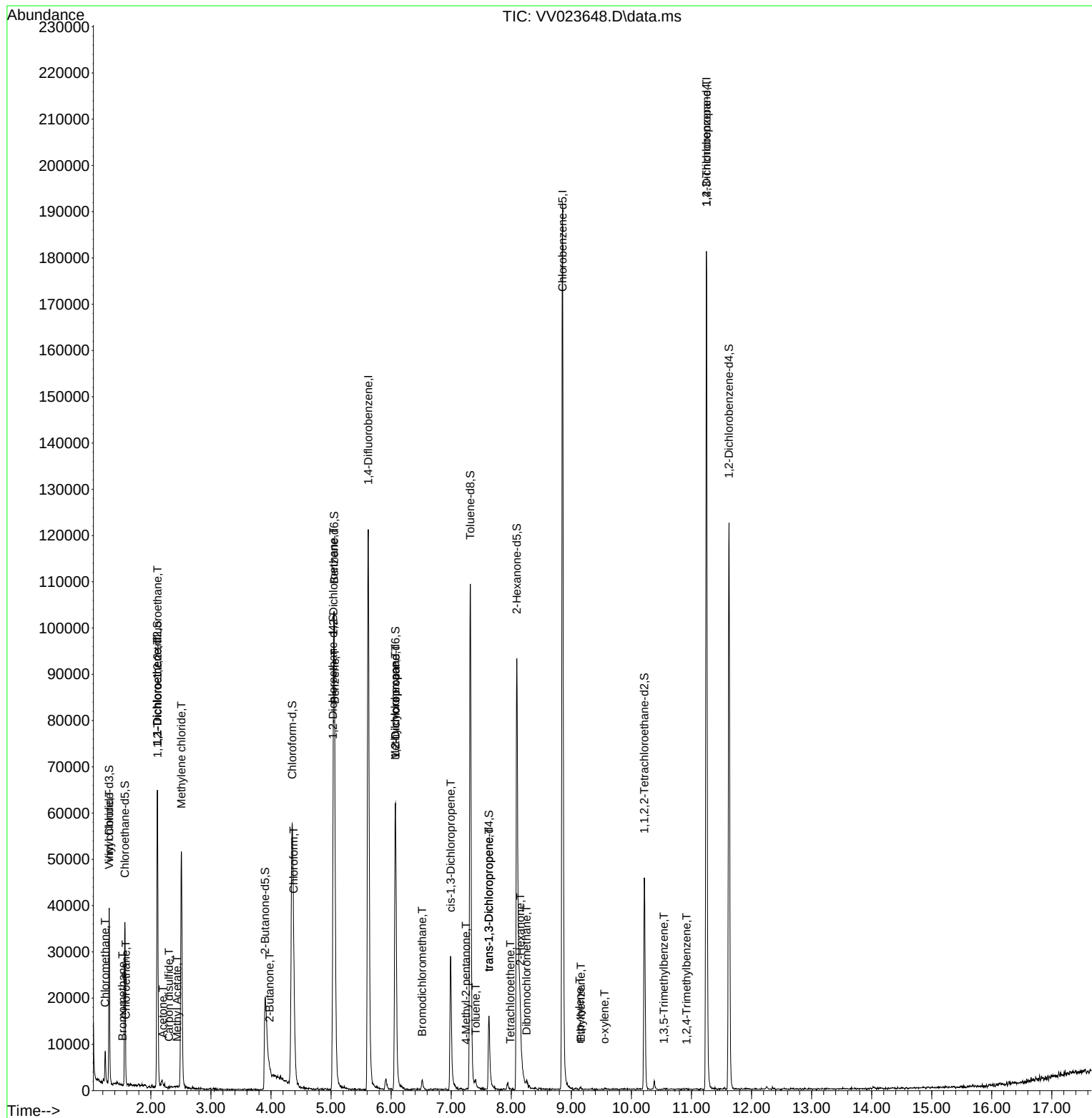
42) Toluene	7.410	91	1497	0.046	ug/L	99
44) trans-1,3-Dichloropropene	7.628	75	428	0.051	ug/L	89
47) Tetrachloroethene	7.985	164	41	0.006	ug/L #	1
48) 2-Hexanone	8.152	43	5106	2.215	ug/L #	77
49) Dibromochloromethane	8.255	129	67	0.010	ug/L #	10
52) Ethylbenzene	9.159	91	424	0.012	ug/L	98
53) m,p-xylene	9.140	106	23	0.002	ug/L #	47
54) o-xylene	9.554	106	42	0.003	ug/L #	23
61) 1,2,3-Trichloropropane	11.249	75	4962	1.547	ug/L #	66
62) 1,3,5-Trimethylbenzene	10.541	105	158	0.007	ug/L #	28
63) 1,2,4-Trimethylbenzene	10.918	105	108	0.005	ug/L #	85

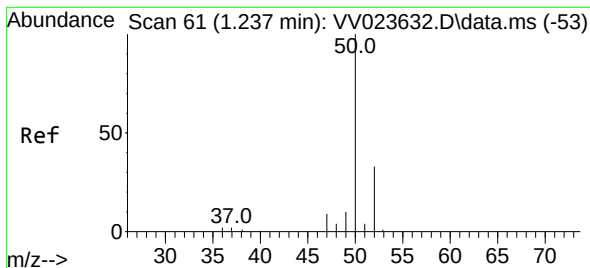
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.484 ug/L

RT: 1.240 min Scan# 61

Delta R.T. 0.003 min

Lab File: VV023648.D

Acq: 19 Nov 2021 17:03

Instrument :

MSVOA_V

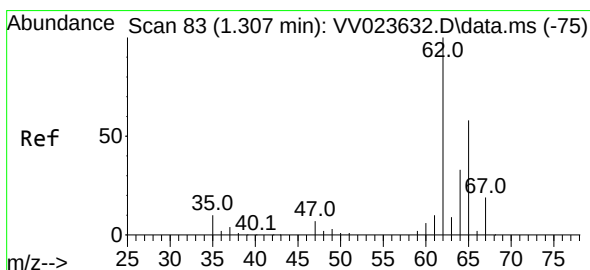
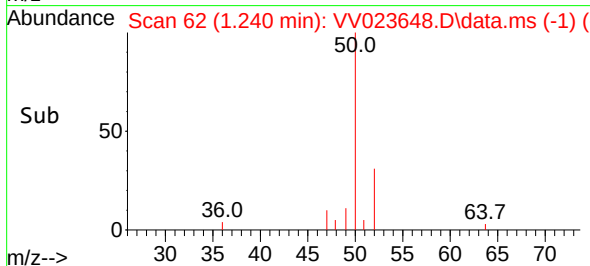
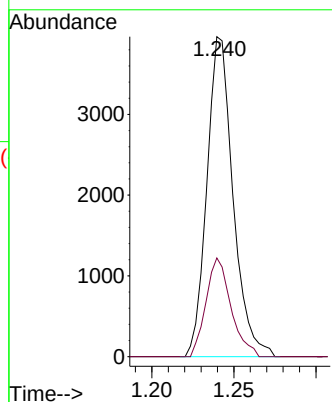
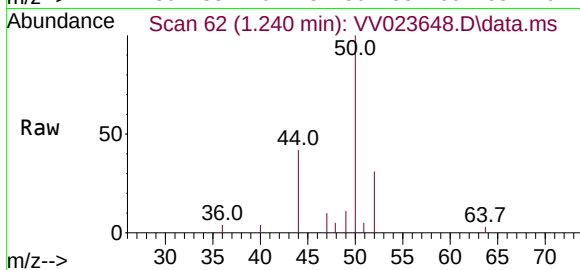
ClientSampleId :

Tgt Ion: 50 Resp: 4388

Ion Ratio Lower Upper

50 100

52 30.8 24.3 45.1



#5

Vinyl chloride

Concen: 0.015 ug/L

RT: 1.304 min Scan# 82

Delta R.T. -0.003 min

Lab File: VV023648.D

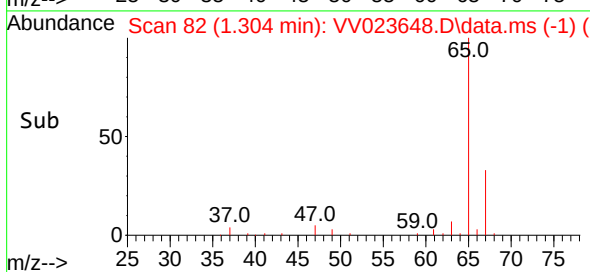
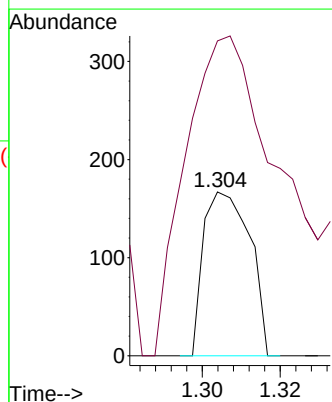
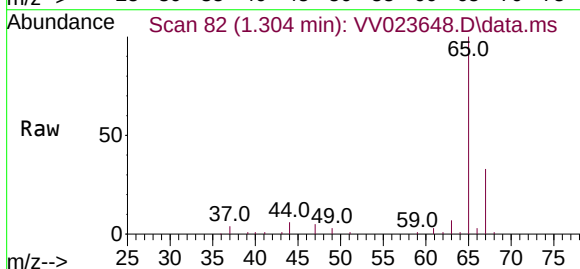
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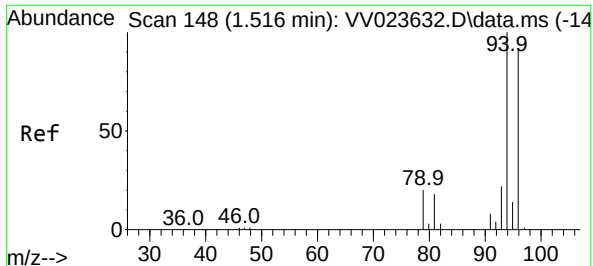
Tgt Ion: 62 Resp: 138

Ion Ratio Lower Upper

62 100

64 192.2 23.1 42.9#

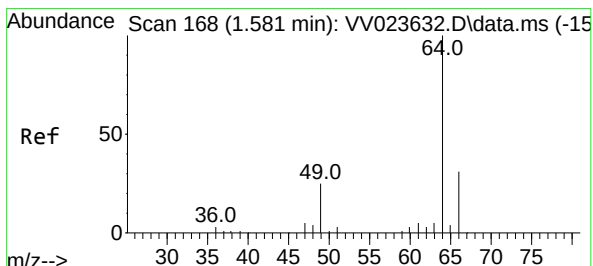
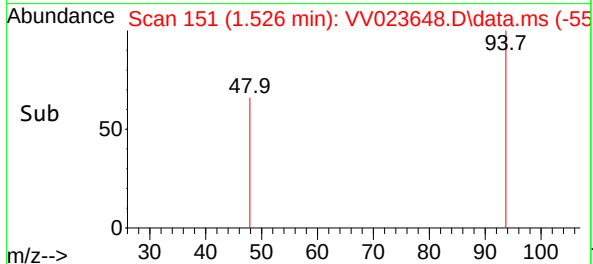
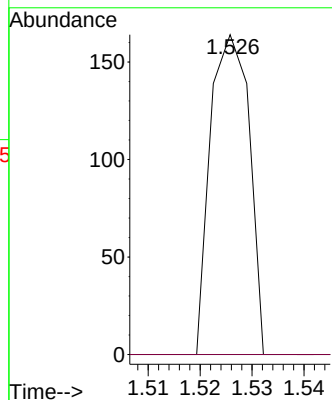
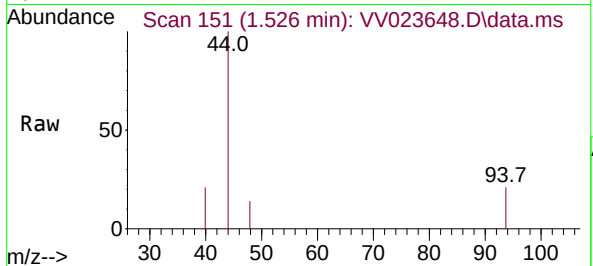




#6
Bromomethane
Concen: 0.015 ug/L
RT: 1.526 min Scan# 11
Delta R.T. 0.009 min
Lab File: VV023648.D
Acq: 19 Nov 2021 17:03

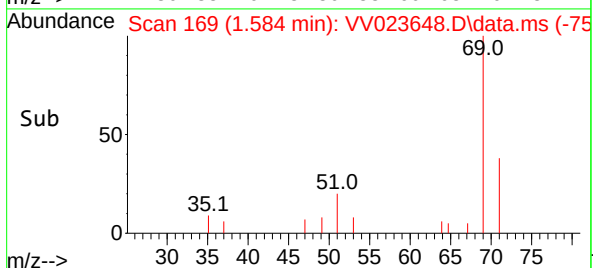
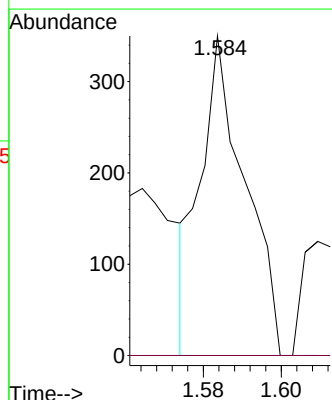
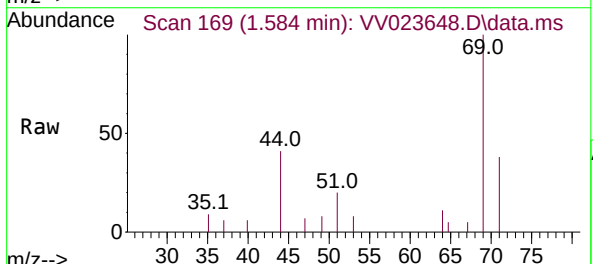
Instrument :
MSVOA_V
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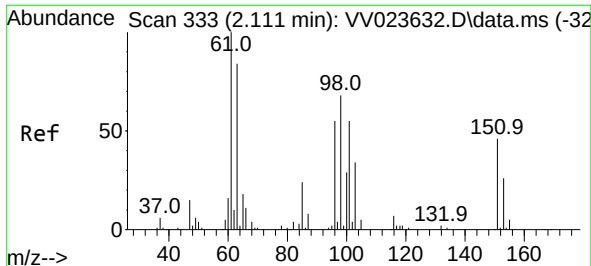
Tgt Ion: 94 Resp: 85
Ion Ratio Lower Upper
94 100
96 0.0 65.0 120.8#



#8
Chloroethane
Concen: 0.053 ug/L
RT: 1.584 min Scan# 169
Delta R.T. 0.003 min
Lab File: VV023648.D
Acq: 19 Nov 2021 17:03

Tgt Ion: 64 Resp: 276
Ion Ratio Lower Upper
64 100
66 0.0 22.1 41.1#

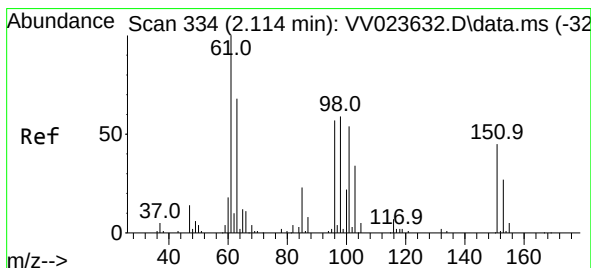
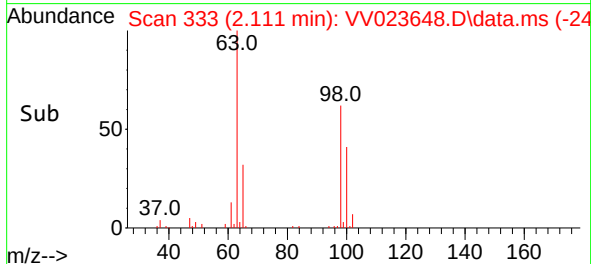
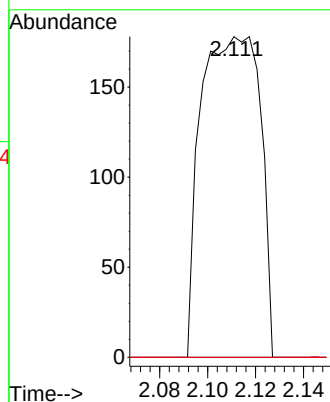
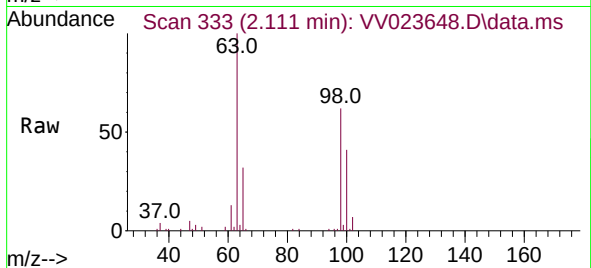




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.045 ug/L
RT: 2.111 min Scan# 311
Delta R.T. -0.000 min
Lab File: VV023648.D
Acq: 19 Nov 2021 17:03

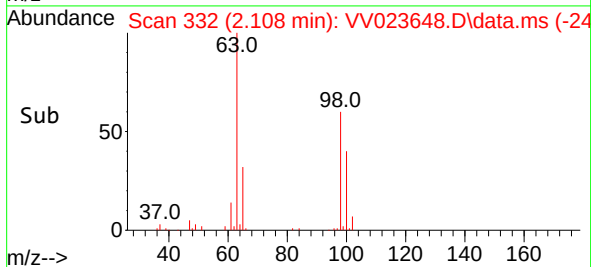
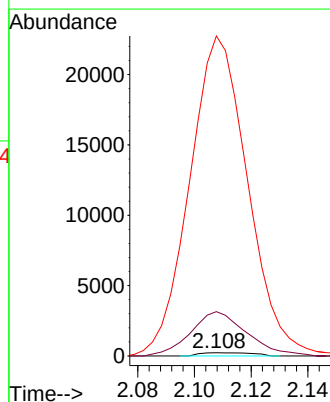
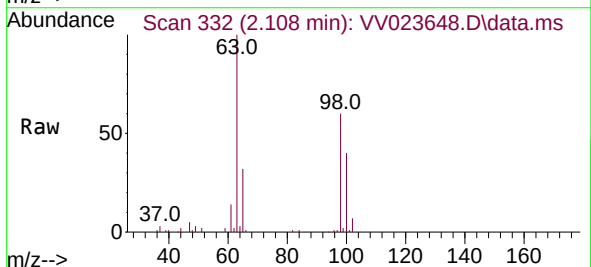
Instrument :
MSVOA_V
ClientSampleId :

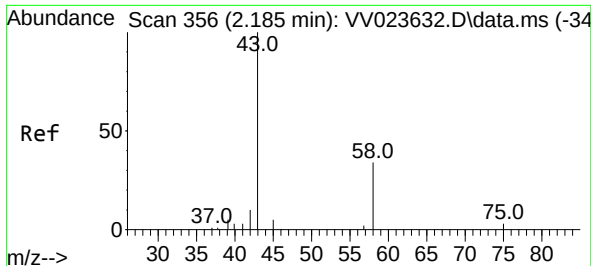
Tgt Ion:101 Resp: 305
Ion Ratio Lower Upper
101 100
85 0.0 35.3 52.9#
151 0.0 62.2 93.2#



#12
1,1-Dichloroethene
Concen: 0.046 ug/L
RT: 2.108 min Scan# 332
Delta R.T. -0.007 min
Lab File: VV023648.D
Acq: 19 Nov 2021 17:03

Tgt Ion: 96 Resp: 298
Ion Ratio Lower Upper
96 100
61 1378.2 121.5 225.7#
63 9931.9 99.6 185.0#

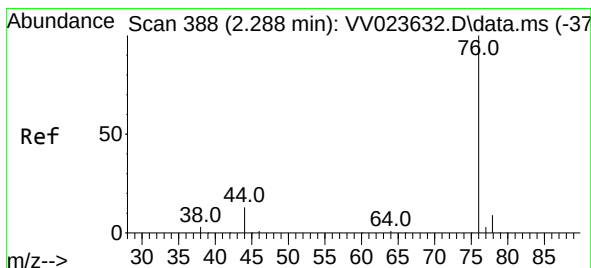
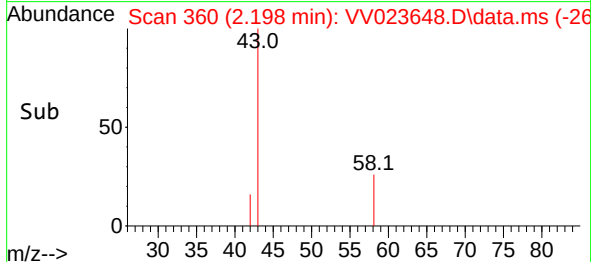
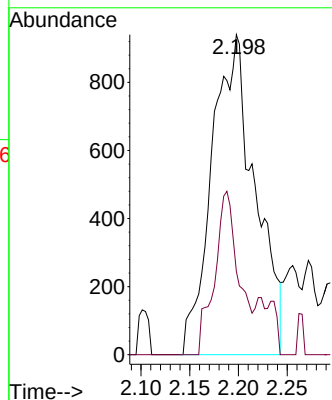
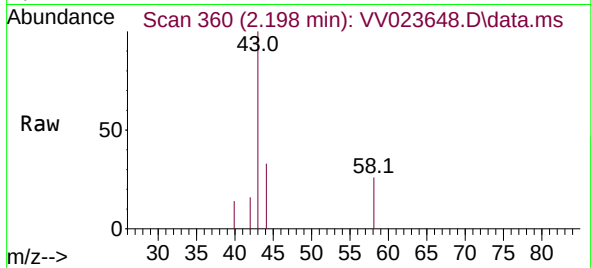




#13
Acetone
Concen: 4.016 ug/L
RT: 2.198 min Scan# 301
Delta R.T. 0.013 min
Lab File: VV023648.D
Acq: 19 Nov 2021 17:03

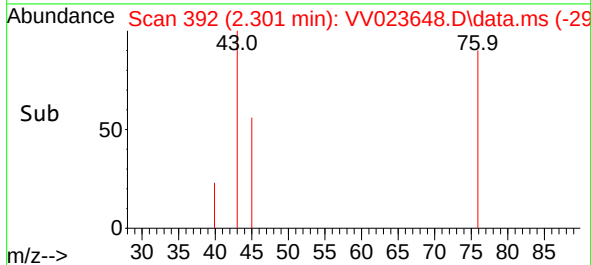
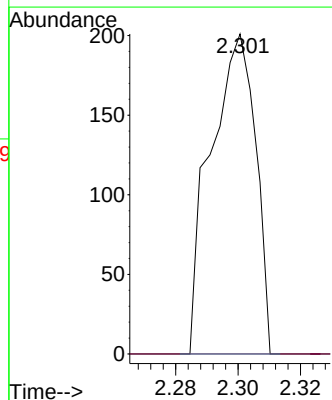
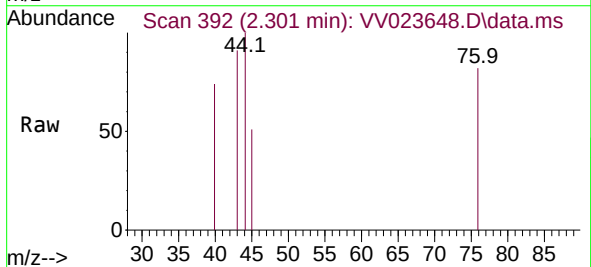
Instrument :
MSVOA_V
ClientSampleId :

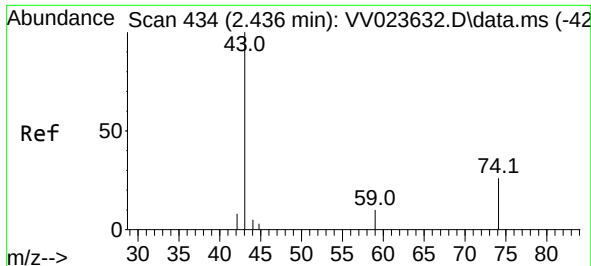
Tgt Ion: 43 Resp: 2895
Ion Ratio Lower Upper
43 100
58 28.5 0.0 55.4



#14
Carbon disulfide
Concen: 0.008 ug/L
RT: 2.301 min Scan# 392
Delta R.T. 0.013 min
Lab File: VV023648.D
Acq: 19 Nov 2021 17:03

Tgt Ion: 76 Resp: 201
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#

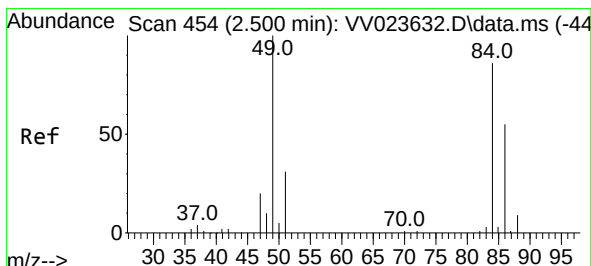
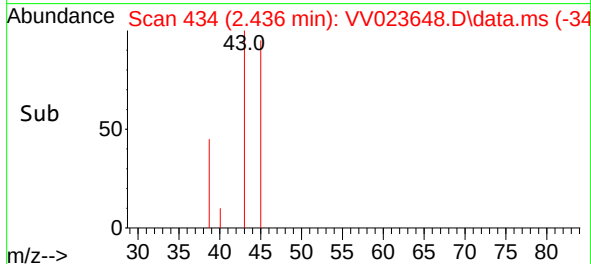
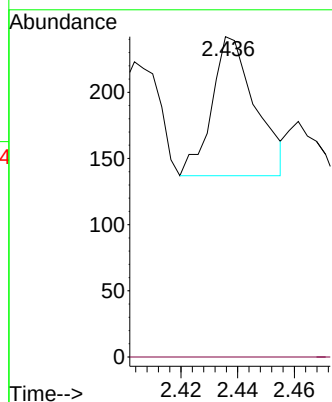
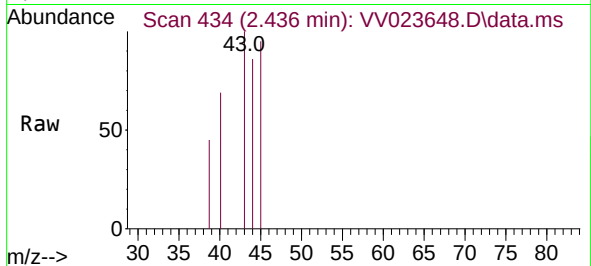




#15
Methyl Acetate
Concen: 0.055 ug/L
RT: 2.436 min Scan# 41
Delta R.T. -0.000 min
Lab File: VV023648.D
Acq: 19 Nov 2021 17:03

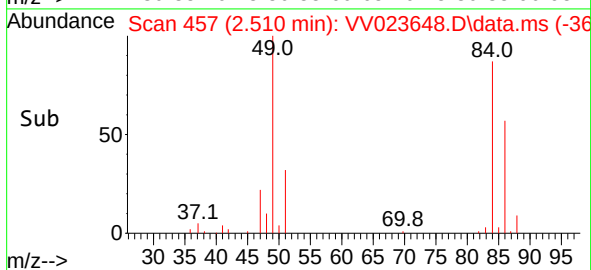
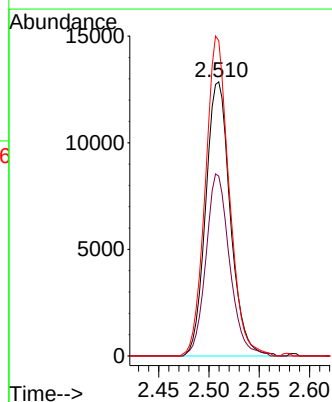
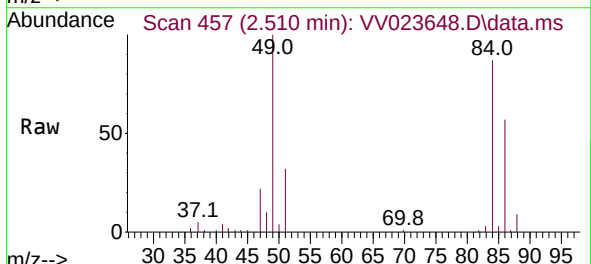
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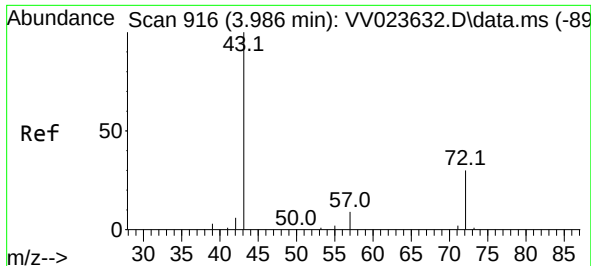
Tgt Ion: 43 Resp: 112
Ion Ratio Lower Upper
43 100
74 0.0 22.2 33.2#



#16
Methylene chloride
Concen: 2.299 ug/L
RT: 2.510 min Scan# 457
Delta R.T. 0.010 min
Lab File: VV023648.D
Acq: 19 Nov 2021 17:03

Tgt Ion: 84 Resp: 21876
Ion Ratio Lower Upper
84 100
86 65.6 42.3 78.5
49 115.0 79.7 148.1

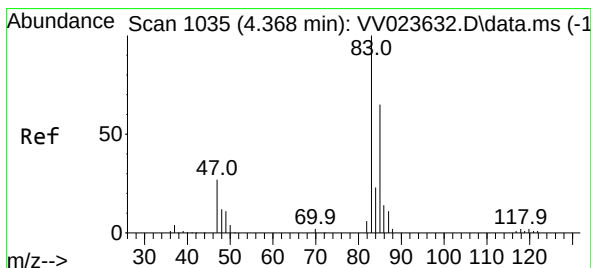
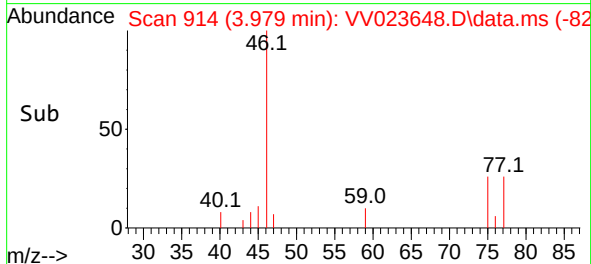
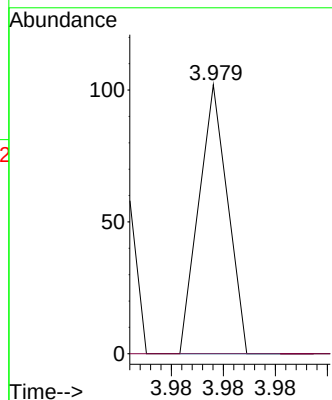
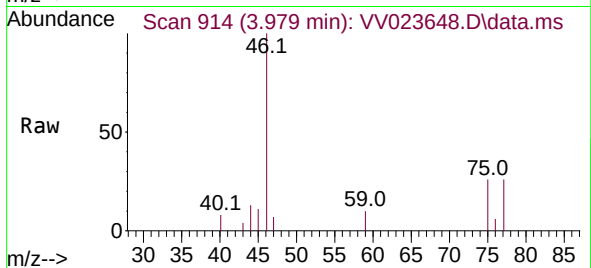




#21
2-Butanone
Concen: 0.017 ug/L
RT: 3.979 min Scan# 916
Delta R.T. -0.007 min
Lab File: VV023648.D
Acq: 19 Nov 2021 17:03

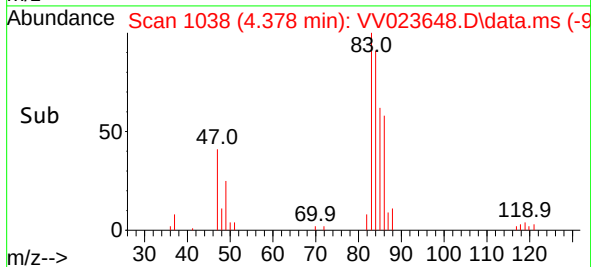
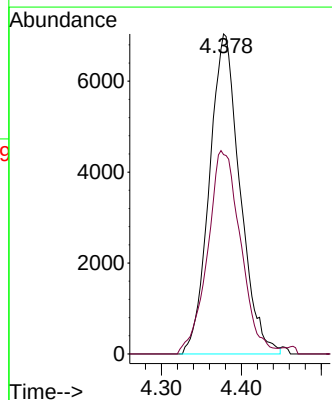
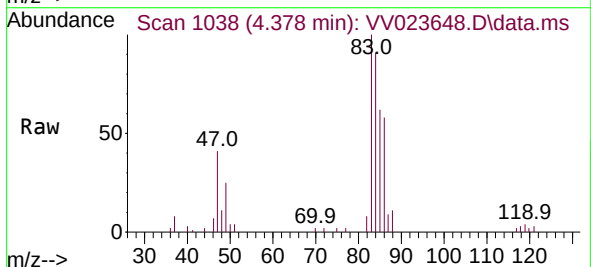
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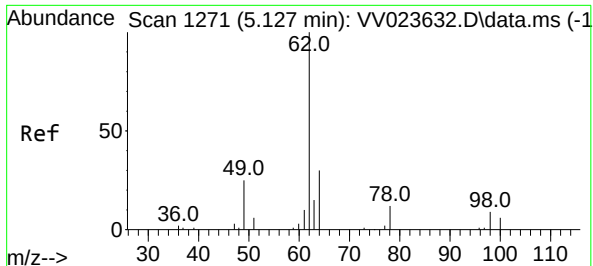
Tgt Ion: 43 Resp: 20
Ion Ratio Lower Upper
43 100
72 0.0 11.9 35.9#



#25
Chloroform
Concen: 1.297 ug/L
RT: 4.378 min Scan# 1038
Delta R.T. 0.010 min
Lab File: VV023648.D
Acq: 19 Nov 2021 17:03

Tgt Ion: 83 Resp: 18703
Ion Ratio Lower Upper
83 100
85 62.3 46.8 86.8





#27

1,2-Dichloroethane

Concen: 0.077 ug/L

RT: 5.040 min Scan# 11

Delta R.T. -0.087 min

Lab File: VV023648.D

Acq: 19 Nov 2021 17:03

Instrument :

MSVOA_V

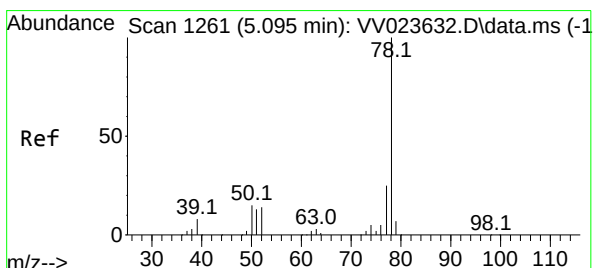
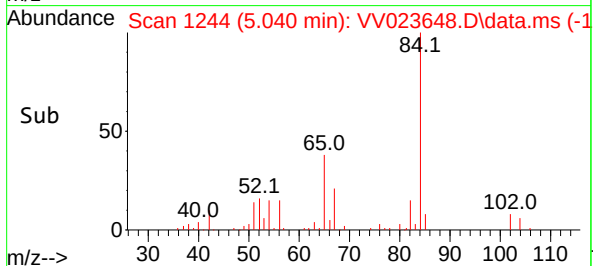
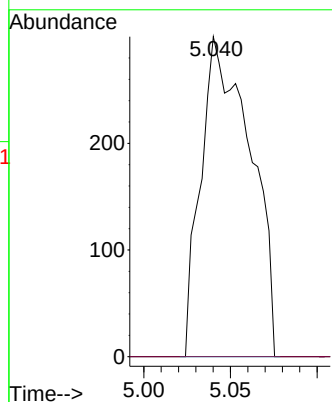
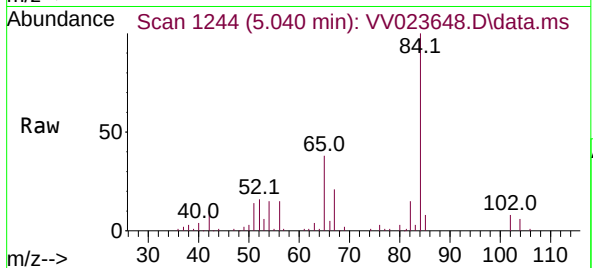
ClientSampleId :

Tgt Ion: 62 Resp: 593

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#



#33

Benzene

Concen: 0.011 ug/L

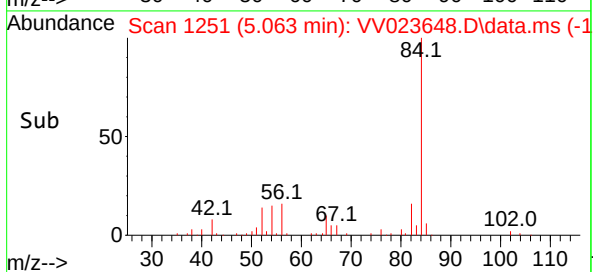
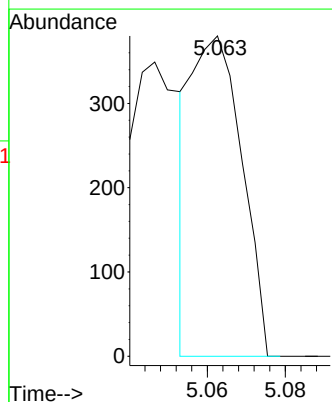
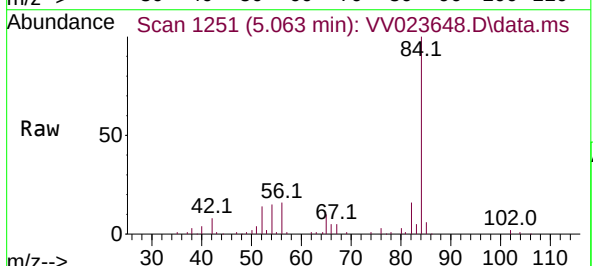
RT: 5.063 min Scan# 1251

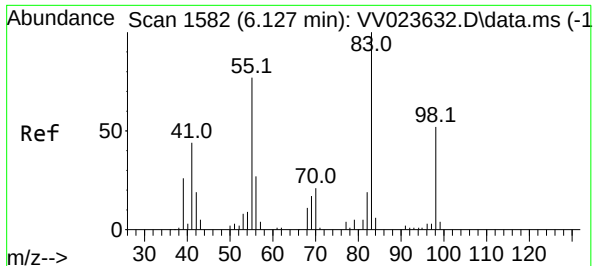
Delta R.T. -0.032 min

Lab File: VV023648.D

Acq: 19 Nov 2021 17:03

Tgt Ion: 78 Resp: 343





#35

Methylcyclohexane

Concen: 0.593 ug/L

RT: 6.069 min Scan# 1564

Delta R.T. -0.058 min

Lab File: VV023648.D

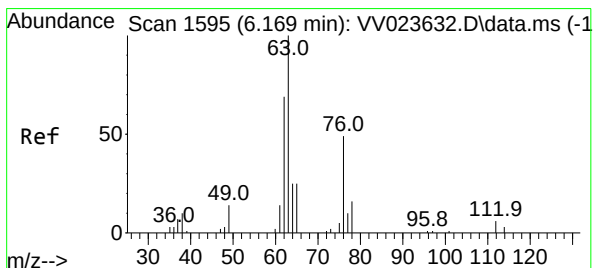
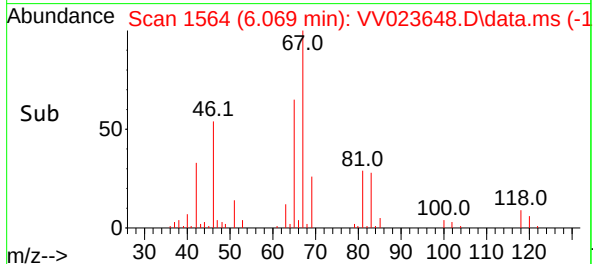
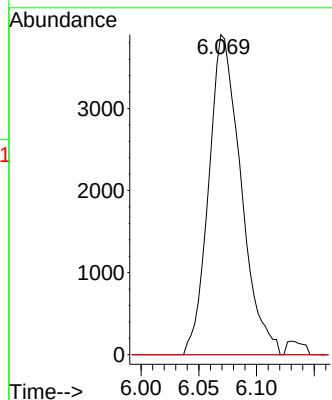
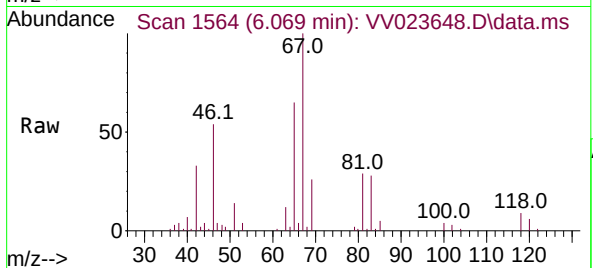
Acq: 19 Nov 2021 17:03

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	83	Resp:	7557
Ion Ratio	Lower	Upper	
83	100		
55	0.0	62.8	94.2#
98	6.3	37.9	56.9#



#37

1,2-Dichloropropane

Concen: 0.474 ug/L

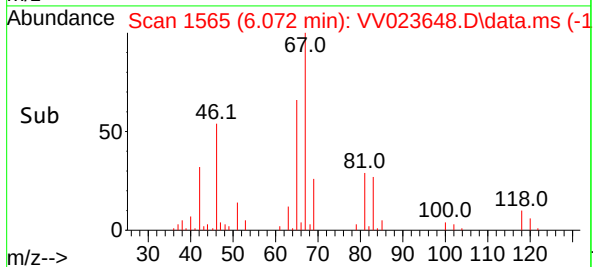
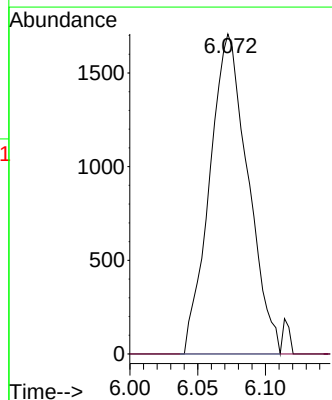
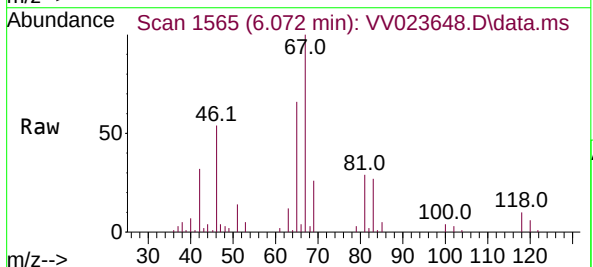
RT: 6.072 min Scan# 1565

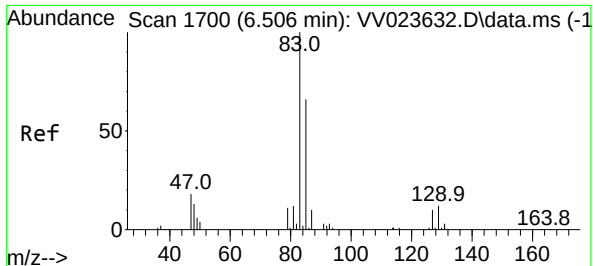
Delta R.T. -0.097 min

Lab File: VV023648.D

Acq: 19 Nov 2021 17:03

Tgt Ion:	63	Resp:	3359
Ion Ratio	Lower	Upper	
63	100		
112	0.0	4.6	6.8#

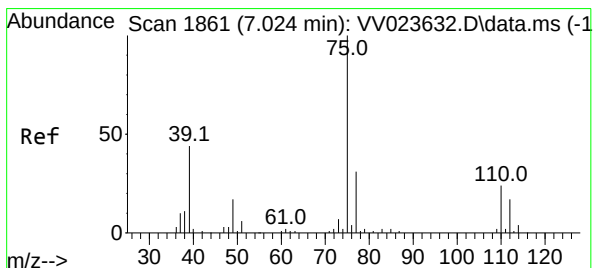
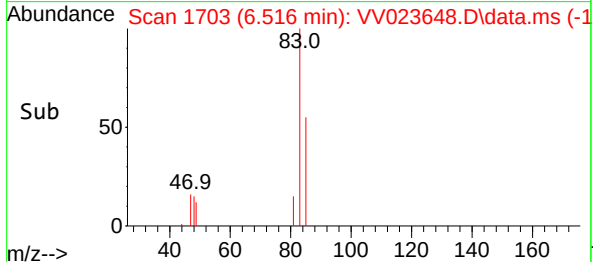
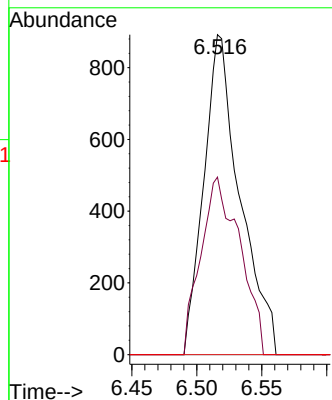
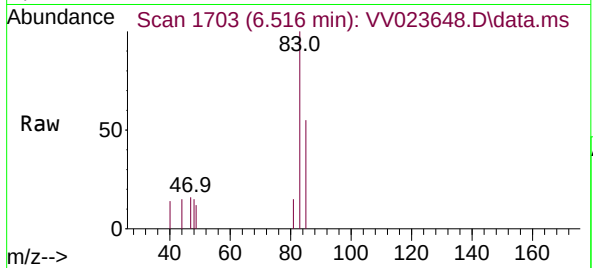




#38
Bromodichloromethane
Concen: 0.182 ug/L
RT: 6.516 min Scan# 1703
Delta R.T. 0.010 min
Lab File: VV023648.D
Acq: 19 Nov 2021 17:03

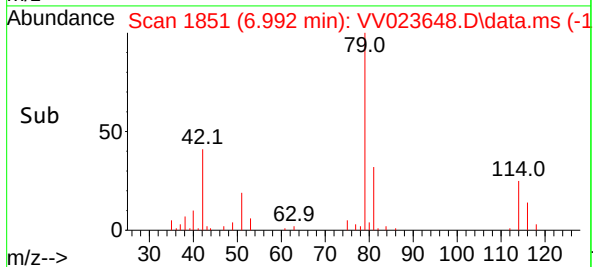
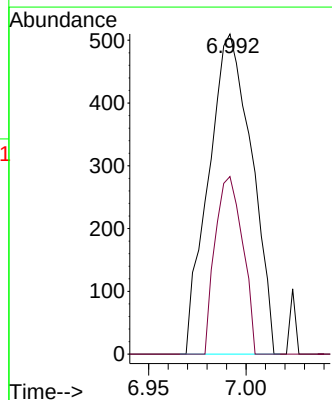
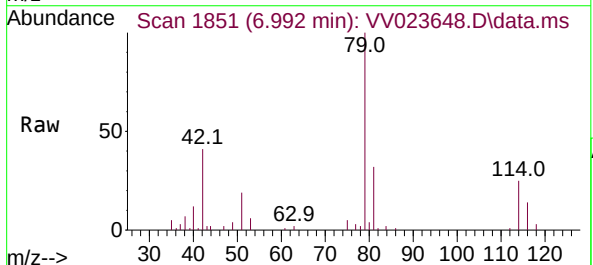
Instrument :
MSVOA_V
ClientSampleId :

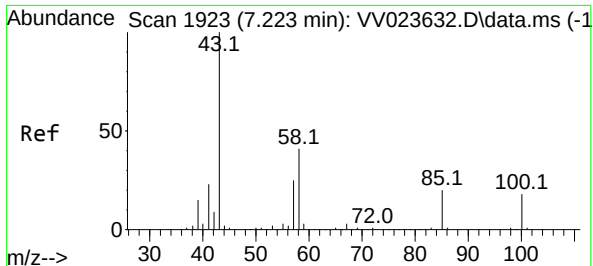
Tgt Ion: 83 Resp: 1727
Ion Ratio Lower Upper
83 100
85 55.5 46.1 85.7
127 0.0 7.2 10.8#



#39
cis-1,3-Dichloropropene
Concen: 0.077 ug/L
RT: 6.992 min Scan# 1851
Delta R.T. -0.032 min
Lab File: VV023648.D
Acq: 19 Nov 2021 17:03

Tgt Ion: 75 Resp: 784
Ion Ratio Lower Upper
75 100
77 55.5 21.6 40.2#





#40

4-Methyl-2-pentanone

Concen: 0.006 ug/L

RT: 7.246 min Scan# 1930

Delta R.T. 0.022 min

Lab File: VV023648.D

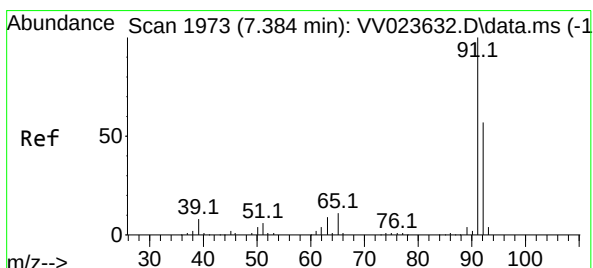
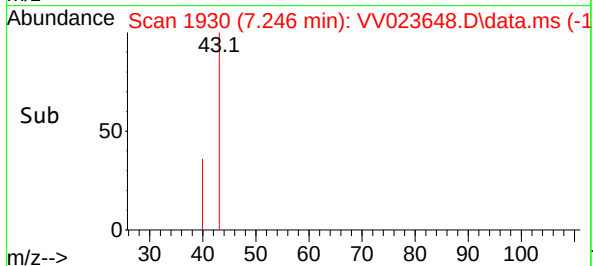
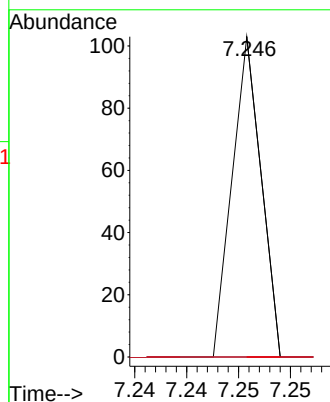
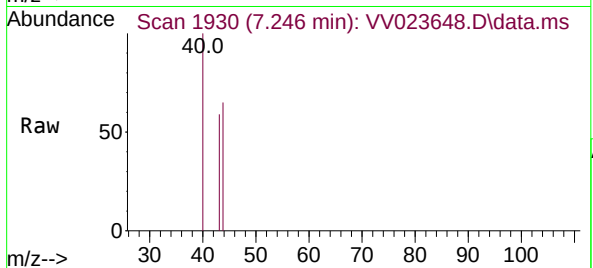
Acq: 19 Nov 2021 17:03

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	43	Resp:	20
Ion	Ratio	Lower	Upper
43	100		
58	0.0	31.1	46.7#
100	0.0	12.6	19.0#



#42

Toluene

Concen: 0.046 ug/L

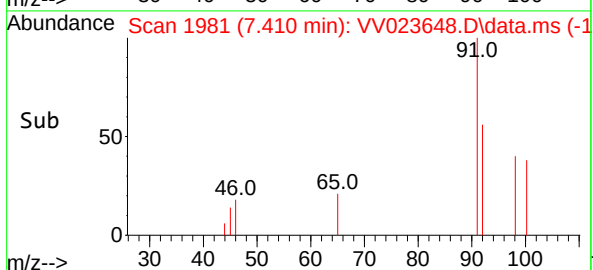
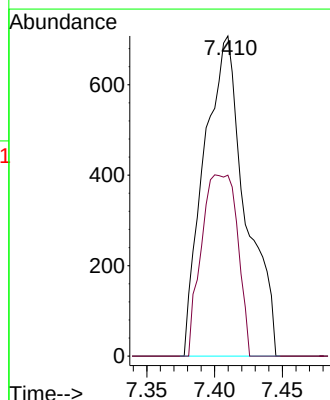
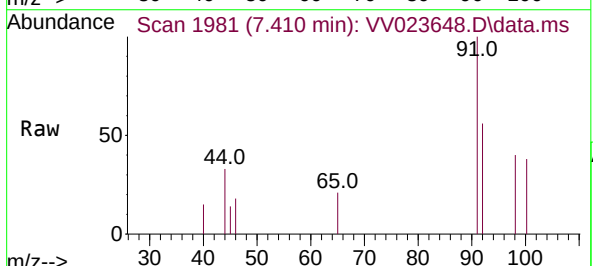
RT: 7.410 min Scan# 1981

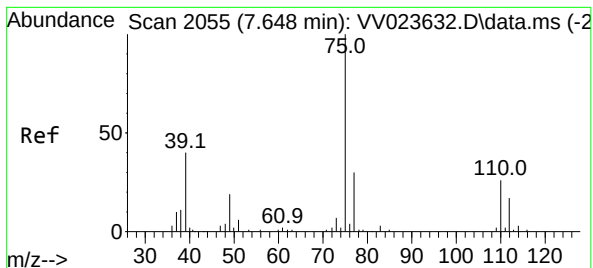
Delta R.T. 0.026 min

Lab File: VV023648.D

Acq: 19 Nov 2021 17:03

Tgt Ion:	91	Resp:	1497
Ion	Ratio	Lower	Upper
91	100		
92	56.5	39.3	72.9





#44

trans-1,3-Dichloropropene

Concen: 0.051 ug/L

RT: 7.628 min Scan# 2055

Delta R.T. -0.019 min

Lab File: VV023648.D

Acq: 19 Nov 2021 17:03

Instrument :

MSVOA_V

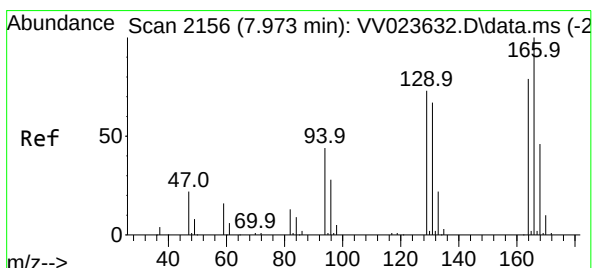
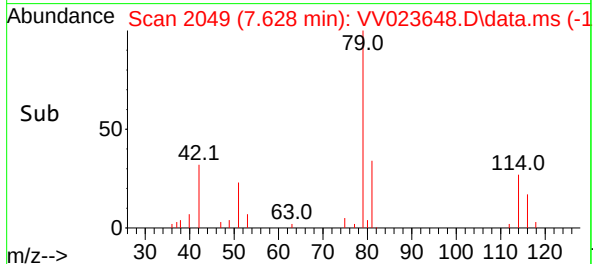
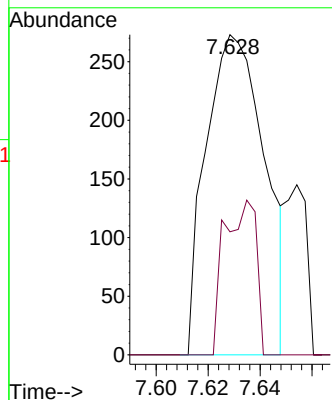
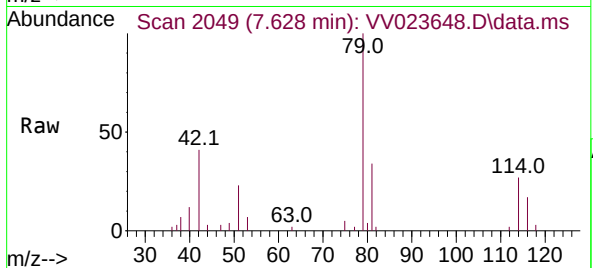
ClientSampleId :

Tgt Ion: 75 Resp: 428

Ion Ratio Lower Upper

75 100

77 38.5 22.5 41.7



#47

Tetrachloroethene

Concen: 0.006 ug/L

RT: 7.985 min Scan# 2160

Delta R.T. 0.013 min

Lab File: VV023648.D

Acq: 19 Nov 2021 17:03

Tgt Ion: 164 Resp: 41

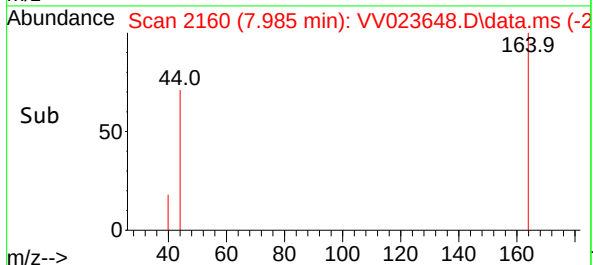
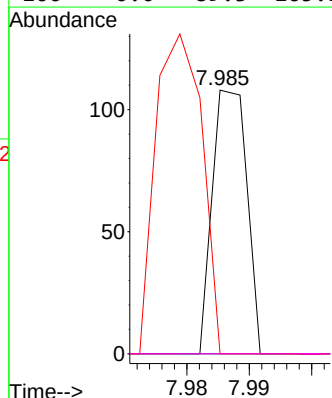
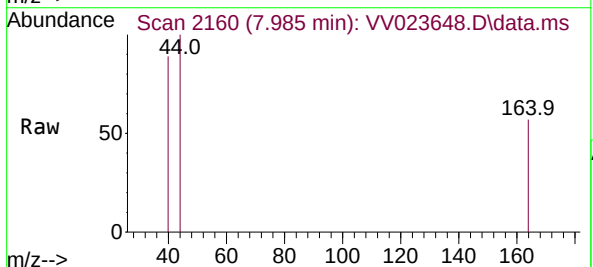
Ion Ratio Lower Upper

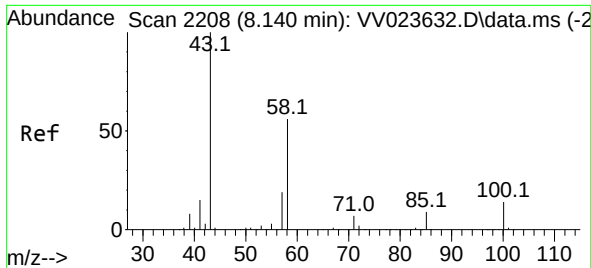
164 100

129 0.0 64.0 119.0#

131 0.0 63.4 117.8#

166 0.0 89.3 165.9#

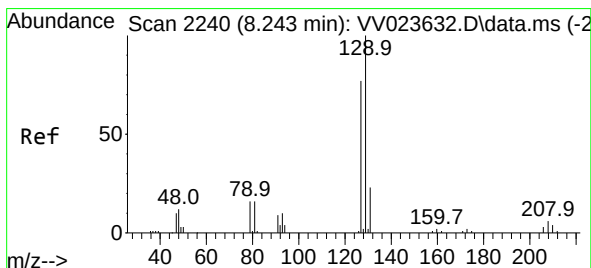
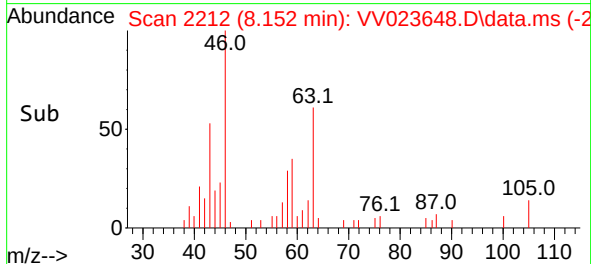
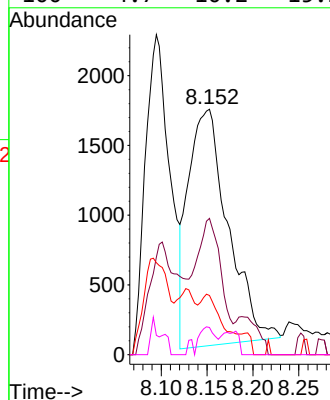
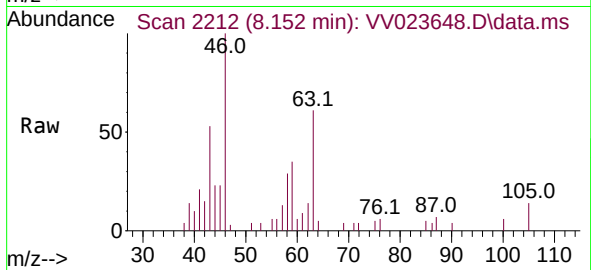




#48
2-Hexanone
Concen: 2.215 ug/L
RT: 8.152 min Scan# 2112
Delta R.T. 0.013 min
Lab File: VV023648.D
Acq: 19 Nov 2021 17:03

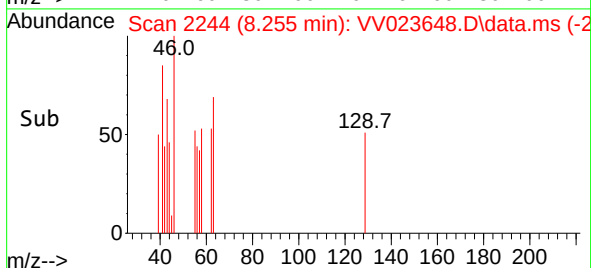
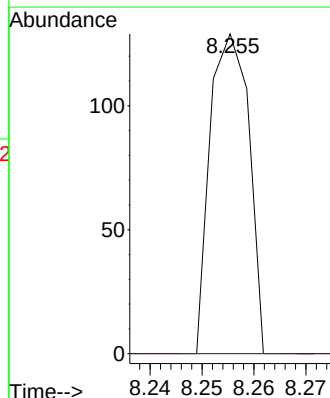
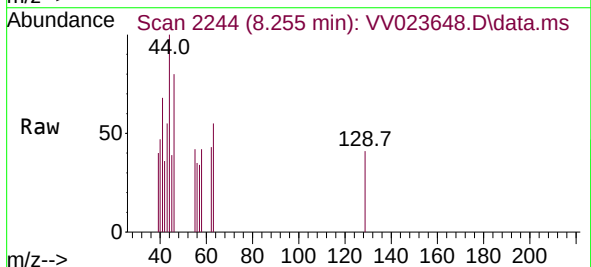
Instrument :
MSVOA_V
ClientSampleId :

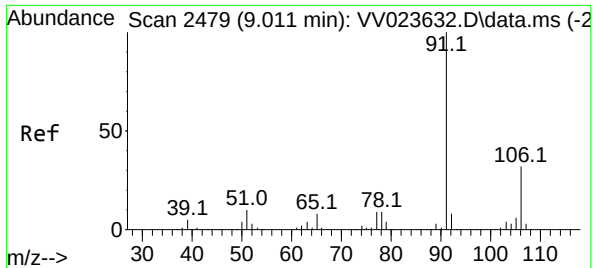
Tgt Ion: 43	Resp: 5106
Ion Ratio	Lower Upper
43	100
58	37.0 43.7 65.5#
57	8.2 14.1 21.1#
100	4.7 10.2 15.2#



#49
Dibromochloromethane
Concen: 0.010 ug/L
RT: 8.255 min Scan# 2244
Delta R.T. 0.013 min
Lab File: VV023648.D
Acq: 19 Nov 2021 17:03

Tgt Ion: 129	Resp: 67
Ion Ratio	Lower Upper
129	100
127	0.0 54.7 101.7#





#52

Ethylbenzene

Concen: 0.012 ug/L

RT: 9.159 min Scan# 2525

Delta R.T. 0.148 min

Lab File: VV023648.D

Acq: 19 Nov 2021 17:03

Instrument :

MSVOA_V

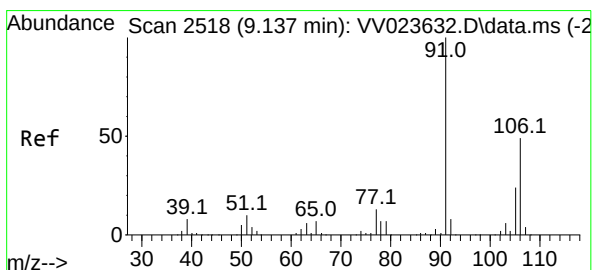
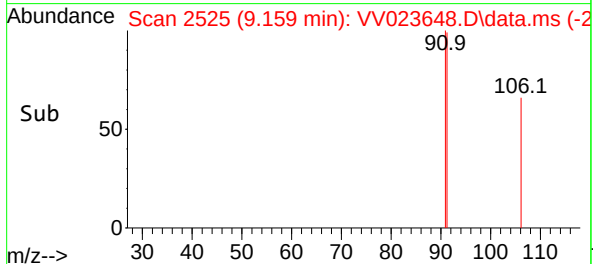
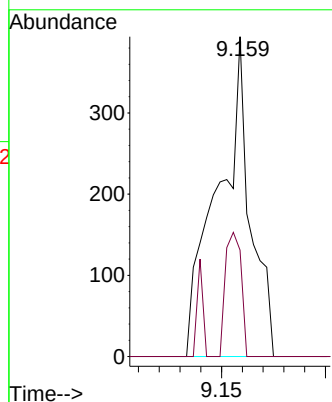
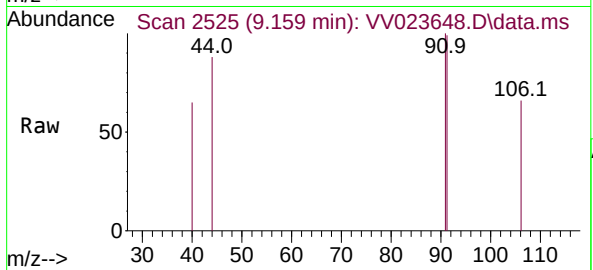
ClientSampleId :

Tgt Ion: 91 Resp: 424

Ion Ratio Lower Upper

91 100

106 33.2 22.5 41.9



#53

m,p-xylene

Concen: 0.002 ug/L

RT: 9.140 min Scan# 2519

Delta R.T. 0.003 min

Lab File: VV023648.D

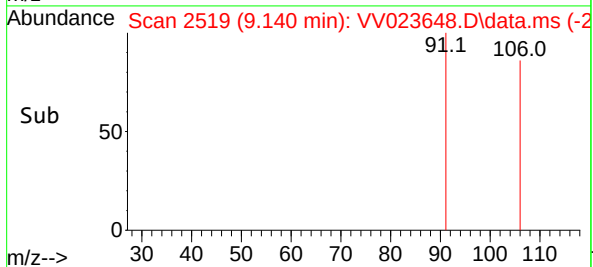
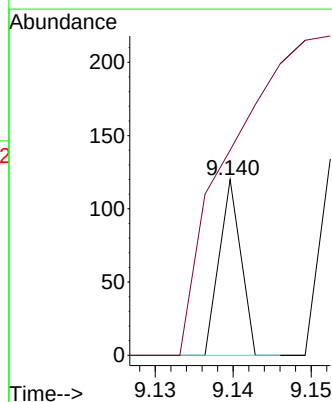
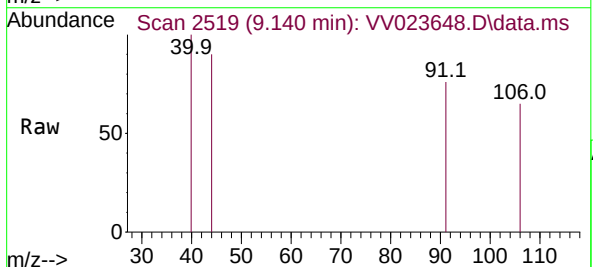
Acq: 19 Nov 2021 17:03

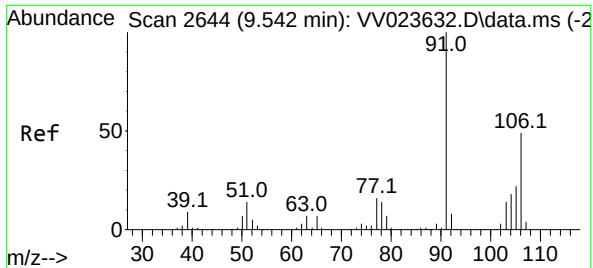
Tgt Ion: 106 Resp: 23

Ion Ratio Lower Upper

106 100

91 116.7 137.2 254.8#

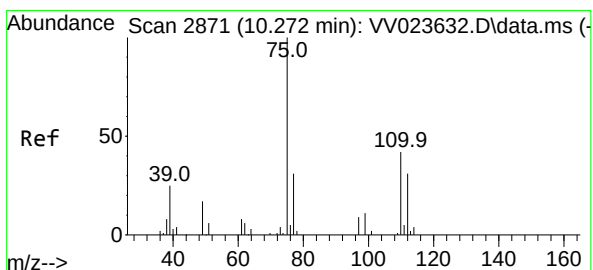
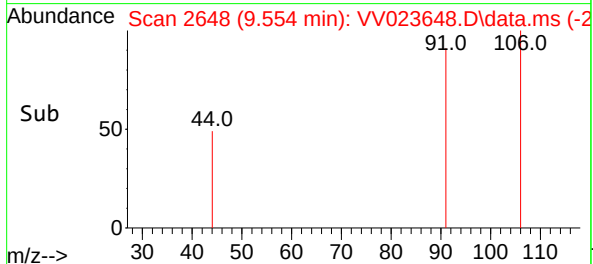
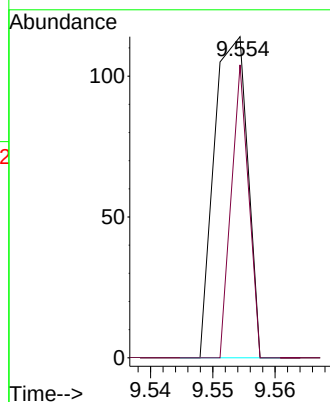
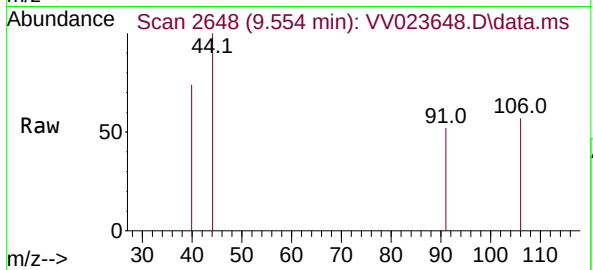




#54
o-xylene
Concen: 0.003 ug/L
RT: 9.554 min Scan# 21
Delta R.T. 0.013 min
Lab File: VV023648.D
Acq: 19 Nov 2021 17:03

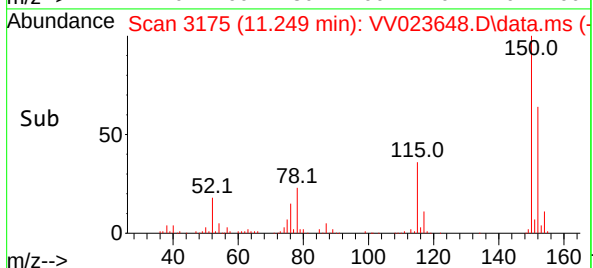
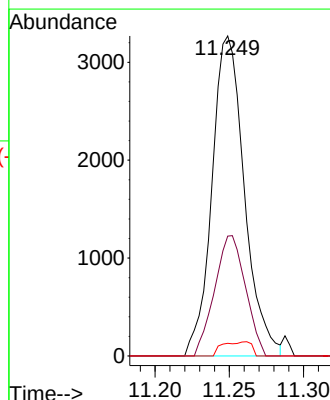
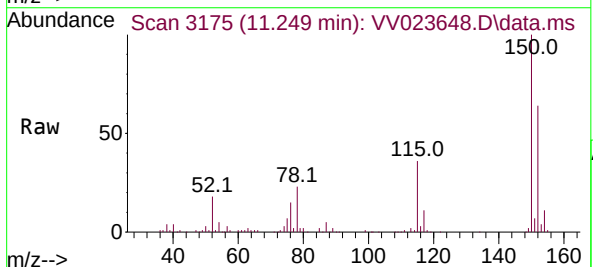
Instrument :
MSVOA_V
ClientSampleId :

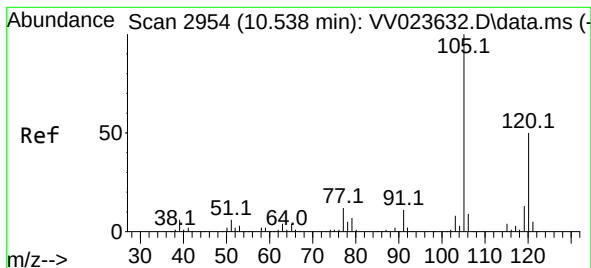
Tgt Ion:106 Resp: 42
Ion Ratio Lower Upper
106 100
91 91.2 148.3 275.5#



#61
1,2,3-Trichloropropane
Concen: 1.547 ug/L
RT: 11.249 min Scan# 3175
Delta R.T. 0.977 min
Lab File: VV023648.D
Acq: 19 Nov 2021 17:03

Tgt Ion: 75 Resp: 4962
Ion Ratio Lower Upper
75 100
77 35.8 26.6 39.8
110 4.0 31.8 47.6#





#62

1,3,5-Trimethylbenzene

Concen: 0.007 ug/L

RT: 10.541 min Scan# 2955

Delta R.T. 0.003 min

Lab File: VV023648.D

Acq: 19 Nov 2021 17:03

Instrument :

MSVOA_V

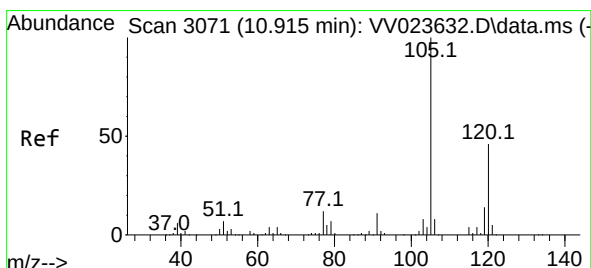
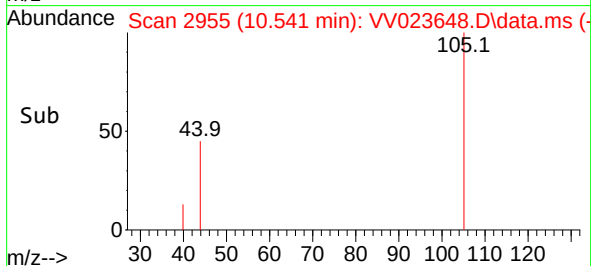
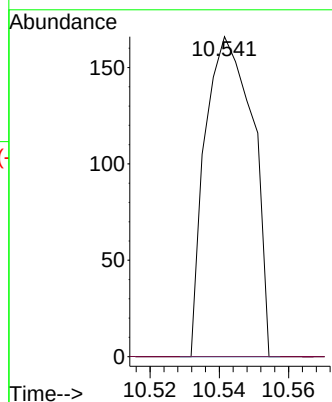
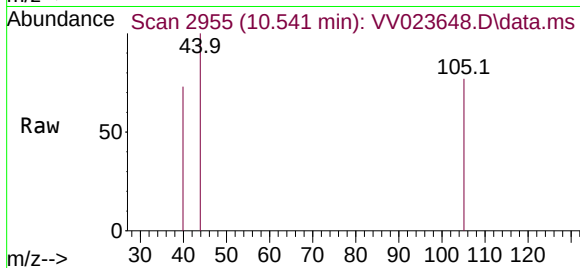
ClientSampleId :

Tgt Ion:105 Resp: 158

Ion Ratio Lower Upper

105 100

120 0.0 39.7 59.5#



#63

1,2,4-Trimethylbenzene

Concen: 0.005 ug/L

RT: 10.918 min Scan# 3072

Delta R.T. 0.003 min

Lab File: VV023648.D

Acq: 19 Nov 2021 17:03

Tgt Ion:105 Resp: 108

Ion Ratio Lower Upper

105 100

120 37.0 37.4 56.2#

