

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111921\
 Data File : VW023643.D
 Acq On : 19 Nov 2021 15:04
 Operator : SY/MD
 Sample : M4706-18
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 22 01:48:16 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	106239	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	106255	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.252	152	48062	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	28513	4.284	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.600%
7) Chloroethane-d5	1.568	69	25251	4.655	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.200%
11) 1,1-Dichloroethene-d2	2.108	63	41015	3.292	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.800%
20) 2-Butanone-d5	3.912	46	42791	37.319	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	74.640%
24) Chloroform-d	4.349	84	63005	4.442	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.800%
26) 1,2-Dichloroethane-d4	5.034	65	29860	4.682	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.600%
32) Benzene-d6	5.053	84	112652	4.132	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.600%
36) 1,2-Dichloropropane-d6	6.072	67	34491	4.298	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.000%
41) Toluene-d8	7.317	98	95152	3.724	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	74.400%
43) trans-1,3-Dichloroprop...	7.625	79	12377	4.067	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.400%
46) 2-Hexanone-d5	8.091	63	45837	40.939	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	81.880%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	24641	4.269	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.400%
66) 1,2-Dichlorobenzene-d4	11.625	152	37112	4.637	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	6017	0.683	ug/L	95
5) Vinyl chloride	1.310	62	179	0.020	ug/L #	1
6) Bromomethane	1.526	94	67	0.012	ug/L #	3
8) Chloroethane	1.577	64	276	0.054	ug/L #	43
10) 1,1,2-Trichloro-1,2,2-...	2.108	101	432	0.065	ug/L #	18
12) 1,1-Dichloroethene	2.108	96	319	0.050	ug/L #	1
13) Acetone	2.188	43	849	1.212	ug/L	91
14) Carbon disulfide	2.294	76	298	0.012	ug/L #	75
15) Methyl Acetate	2.436	43	192	0.097	ug/L #	47
16) Methylene chloride	2.503	84	505	0.055	ug/L	90
21) 2-Butanone	3.976	43	105	0.093	ug/L #	51
25) Chloroform	4.378	83	15084	1.076	ug/L	91
27) 1,2-Dichloroethane	5.056	62	696	0.093	ug/L #	72
33) Benzene	5.050	78	917	0.031	ug/L	100
35) Methylcyclohexane	6.072	83	9200	0.738	ug/L #	18
37) 1,2-Dichloropropane	6.069	63	4149	0.598	ug/L #	83
38) Bromodichloromethane	6.516	83	2141	0.230	ug/L #	87
39) cis-1,3-Dichloropropene	6.995	75	1020	0.102	ug/L #	59
40) 4-Methyl-2-pentanone	7.239	43	20	0.006	ug/L #	44

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

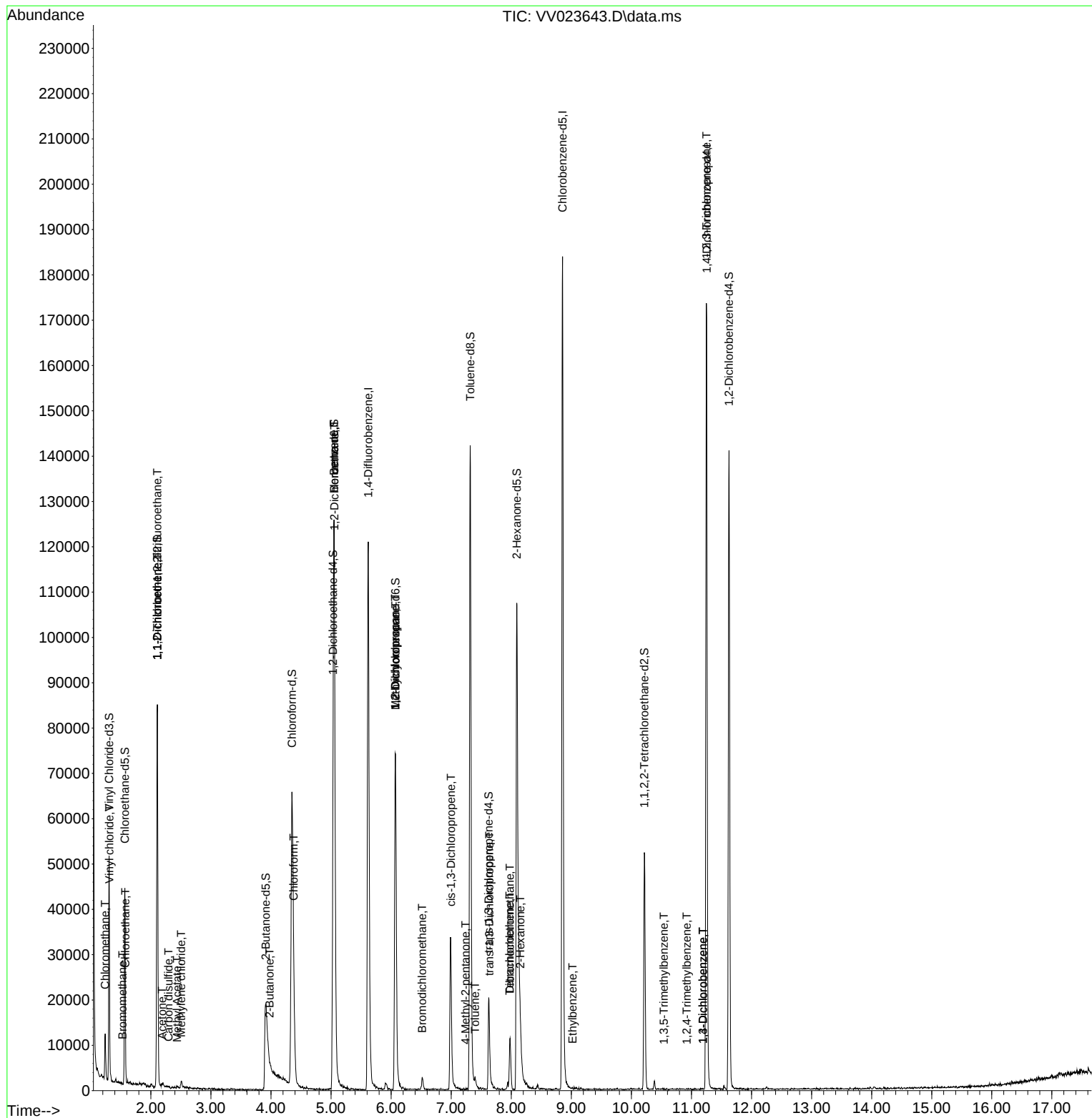
42) Toluene	7.400	91	1520	0.048	ug/L	96
44) trans-1,3-Dichloropropene	7.635	75	664	0.080	ug/L	92
47) Tetrachloroethene	7.976	164	2979	0.435	ug/L	93
48) 2-Hexanone	8.149	43	4382	1.945	ug/L #	62
49) Dibromochloromethane	7.979	129	2355	0.373	ug/L #	10
52) Ethylbenzene	9.021	91	72	0.002	ug/L #	42
61) 1,2,3-Trichloropropane	11.249	75	5064	1.586	ug/L #	67
62) 1,3,5-Trimethylbenzene	10.541	105	40	0.002	ug/L #	28
63) 1,2,4-Trimethylbenzene	10.921	105	205	0.009	ug/L #	30
64) 1,3-Dichlorobenzene	11.191	146	22	0.002	ug/L #	26
65) 1,4-Dichlorobenzene	11.191	146	22	0.002	ug/L #	26

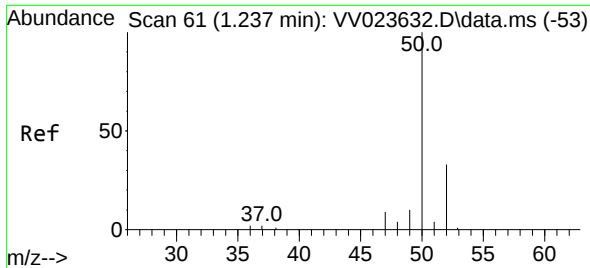
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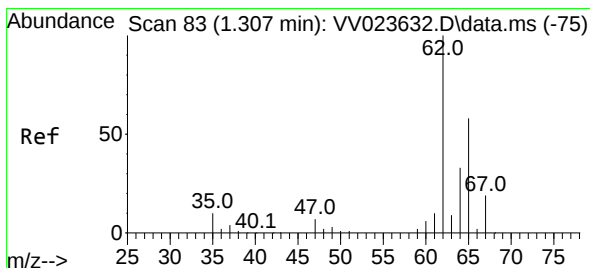
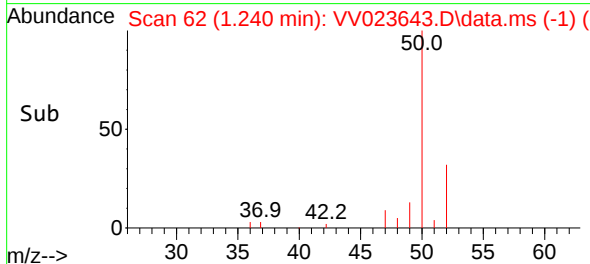
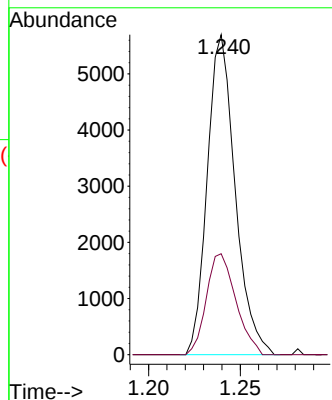
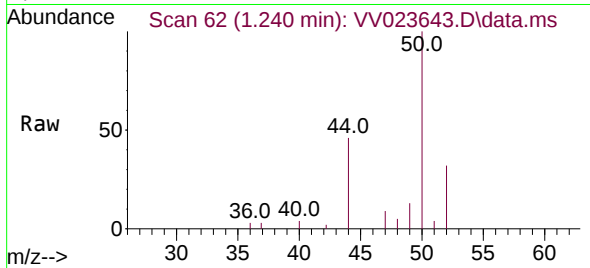




#3
Chloromethane
Concen: 0.683 ug/L
RT: 1.240 min Scan# 61
Delta R.T. 0.003 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

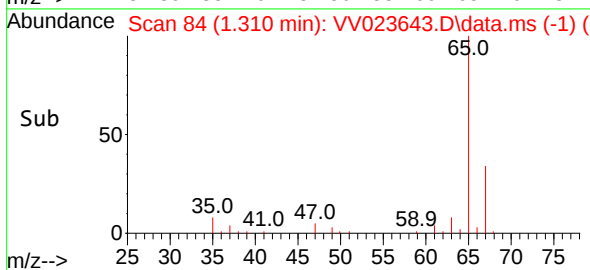
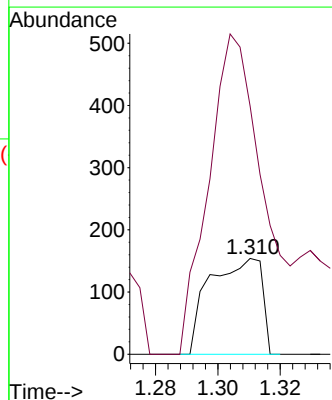
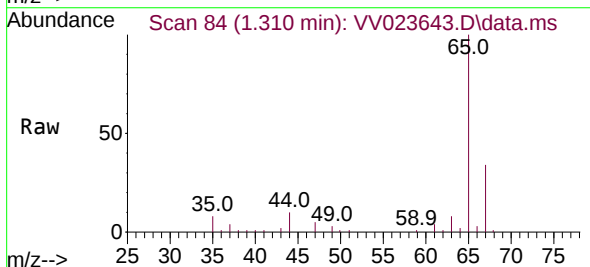
Instrument :
MSVOA_V
ClientSampleId :

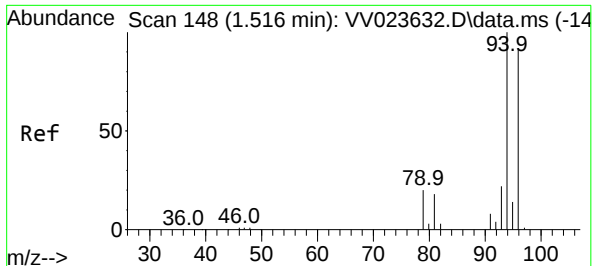
Tgt Ion: 50 Resp: 6017
Ion Ratio Lower Upper
50 100
52 31.5 24.3 45.1



#5
Vinyl chloride
Concen: 0.020 ug/L
RT: 1.310 min Scan# 84
Delta R.T. 0.003 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

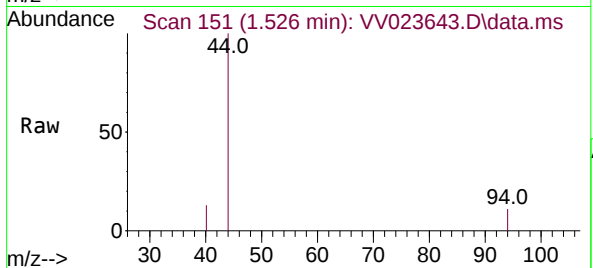
Tgt Ion: 62 Resp: 179
Ion Ratio Lower Upper
62 100
64 259.1 23.1 42.9



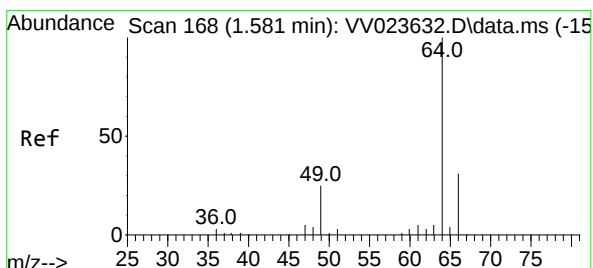
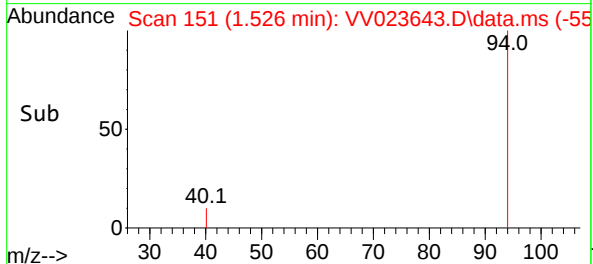
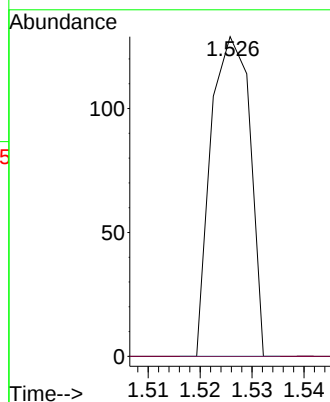


#6
Bromomethane
Concen: 0.012 ug/L
RT: 1.526 min Scan# 11
Delta R.T. 0.009 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

Instrument :
MSVOA_V
ClientSampleId :

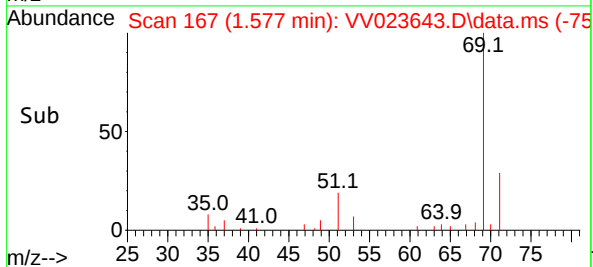
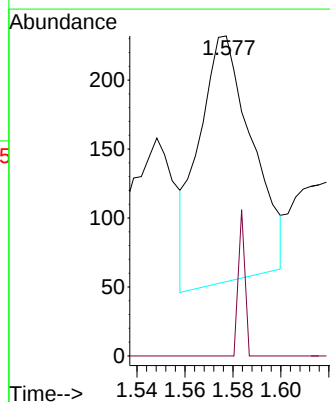
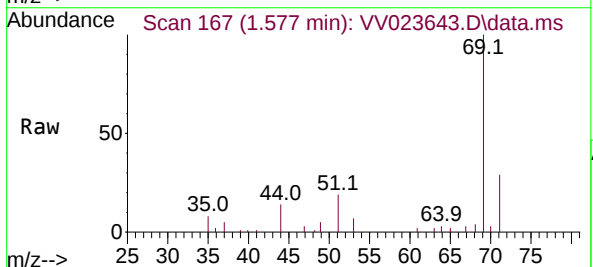


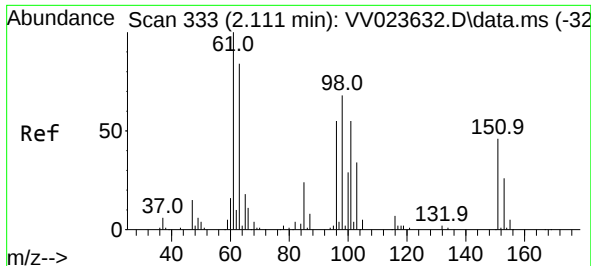
Tgt Ion: 94 Resp: 67
Ion Ratio Lower Upper
94 100
96 0.0 65.0 120.8#



#8
Chloroethane
Concen: 0.054 ug/L
RT: 1.577 min Scan# 167
Delta R.T. -0.003 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

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: 0.065 ug/L

RT: 2.108 min Scan# 331

Delta R.T. -0.003 min

Lab File: VV023643.D

Acq: 19 Nov 2021 15:04

Instrument :

MSVOA_V

ClientSampleId :

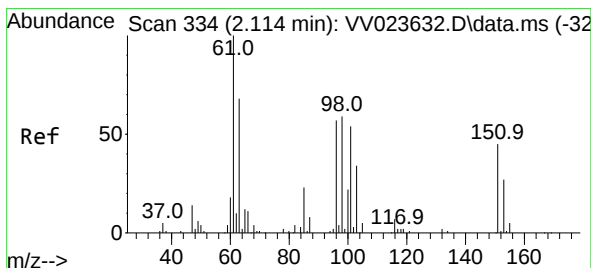
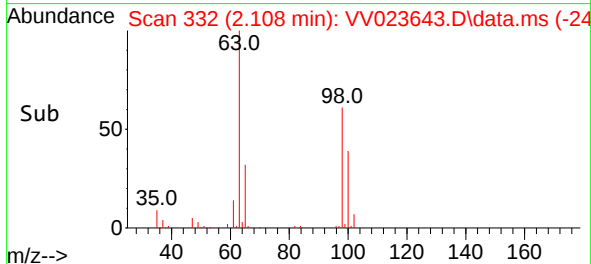
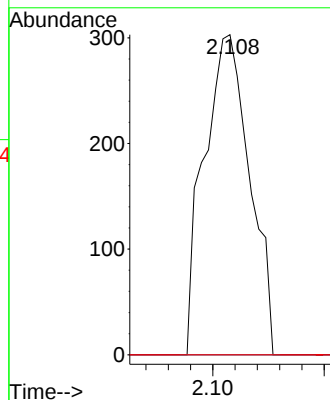
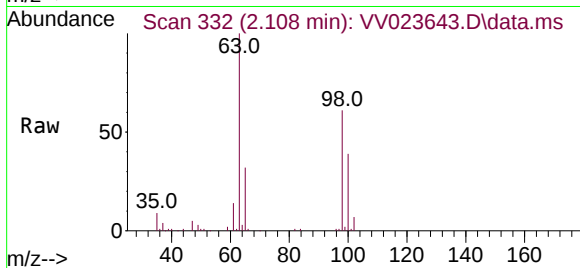
Tgt Ion:101 Resp: 432

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: 0.050 ug/L

RT: 2.108 min Scan# 332

Delta R.T. -0.007 min

Lab File: VV023643.D

Acq: 19 Nov 2021 15:04

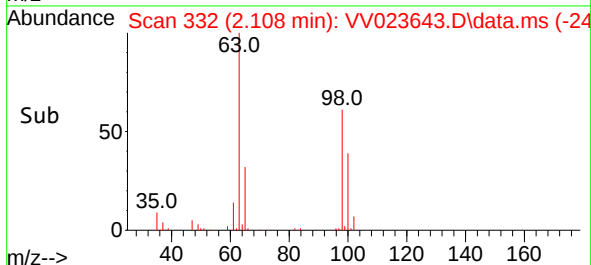
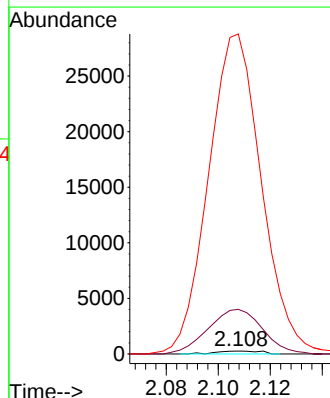
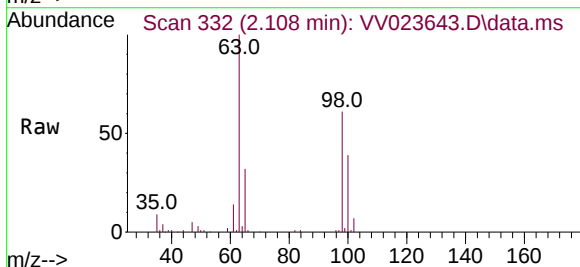
Tgt Ion: 96 Resp: 319

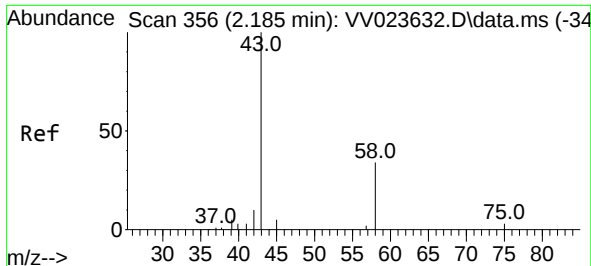
Ion Ratio Lower Upper

96 100

61 1509.8 121.5 225.7#

63 10824.1 99.6 185.0#

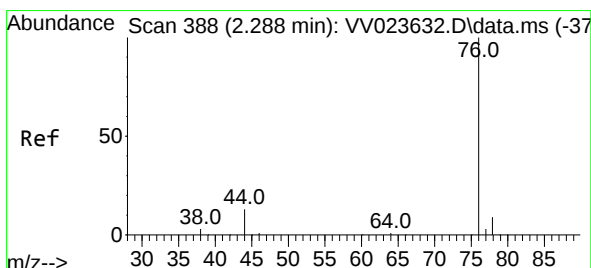
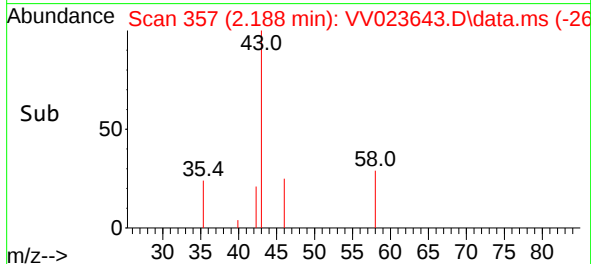
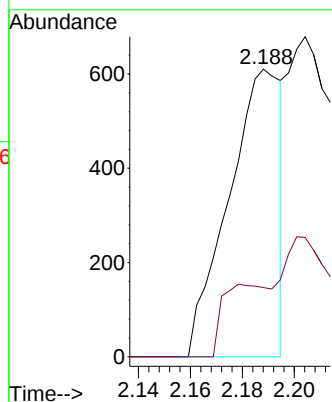
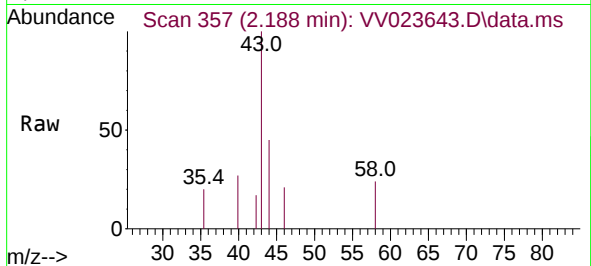




#13
Acetone
Concen: 1.212 ug/L
RT: 2.188 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

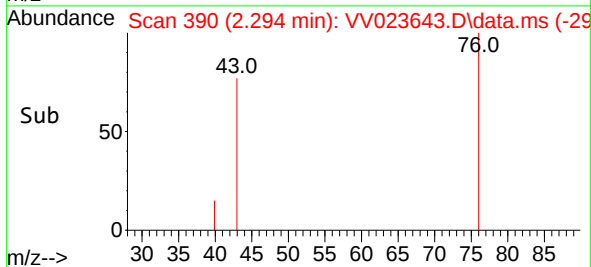
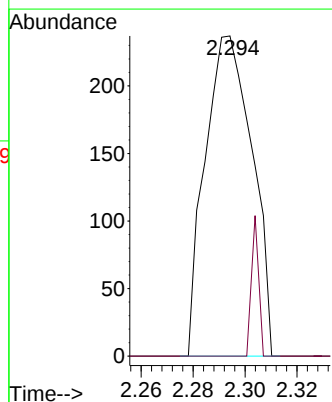
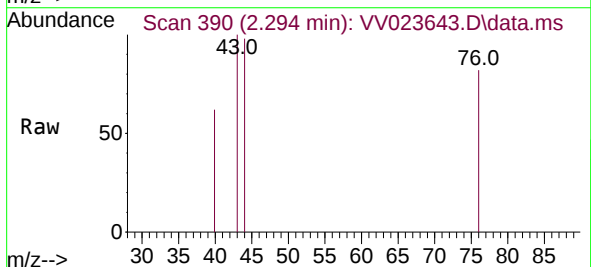
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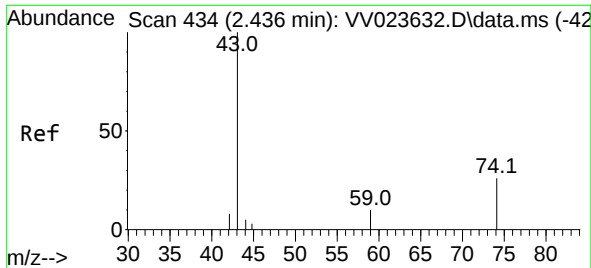
Tgt Ion: 43 Resp: 849
Ion Ratio Lower Upper
43 100
58 23.1 0.0 55.4



#14
Carbon disulfide
Concen: 0.012 ug/L
RT: 2.294 min Scan# 390
Delta R.T. 0.006 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

Tgt Ion: 76 Resp: 298
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#

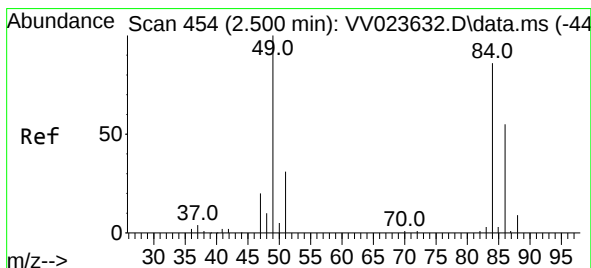
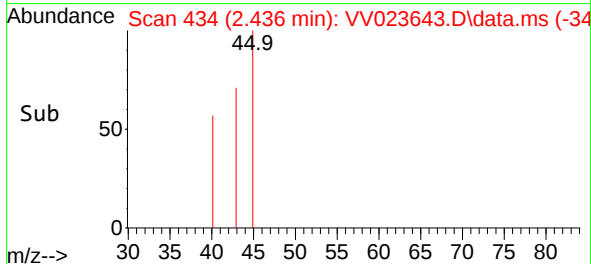
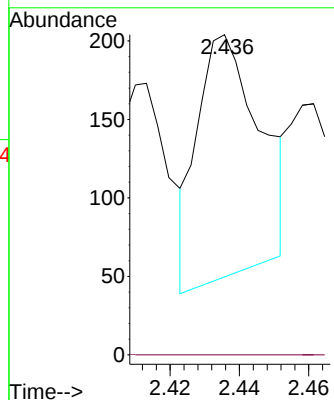
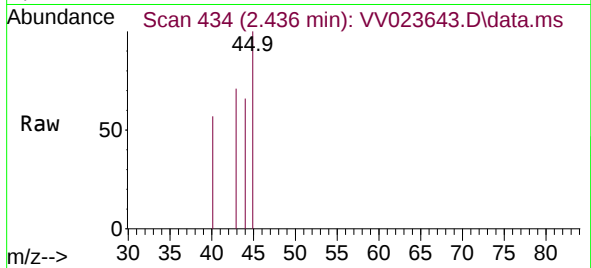




#15
Methyl Acetate
Concen: 0.097 ug/L
RT: 2.436 min Scan# 41
Delta R.T. -0.000 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

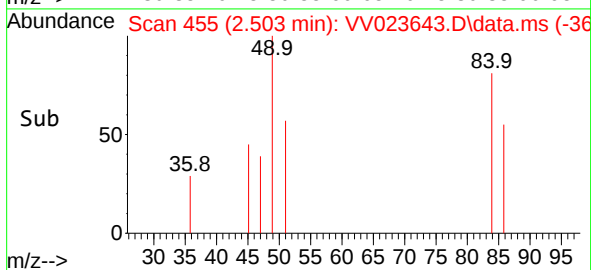
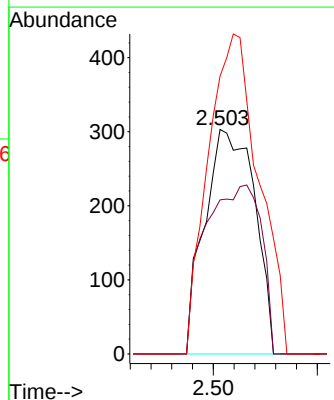
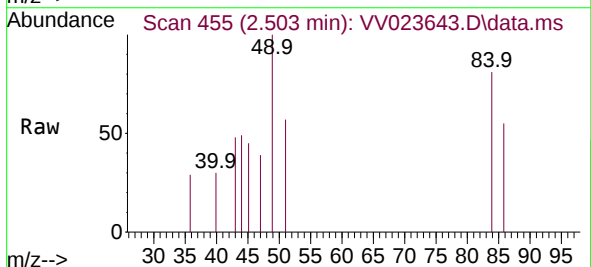
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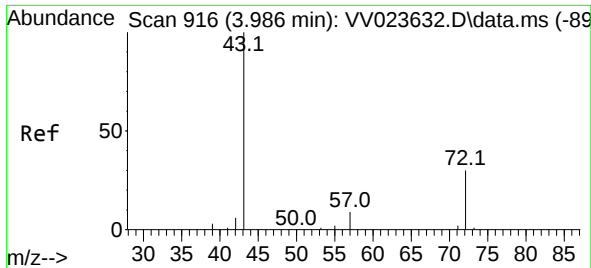
Tgt Ion: 43 Resp: 192
Ion Ratio Lower Upper
43 100
74 0.0 22.2 33.2#



#16
Methylene chloride
Concen: 0.055 ug/L
RT: 2.503 min Scan# 455
Delta R.T. 0.003 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

Tgt Ion: 84 Resp: 505
Ion Ratio Lower Upper
84 100
86 68.6 42.3 78.5
49 123.8 79.7 148.1

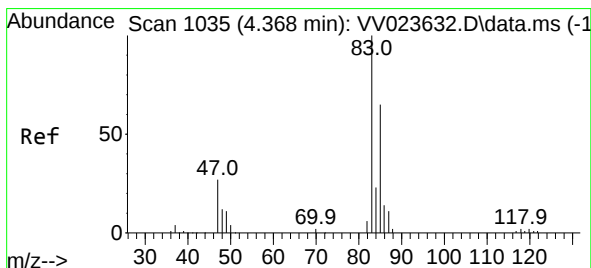
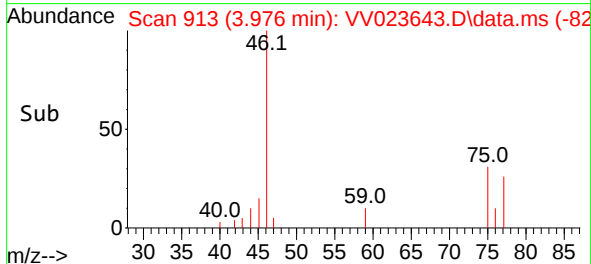
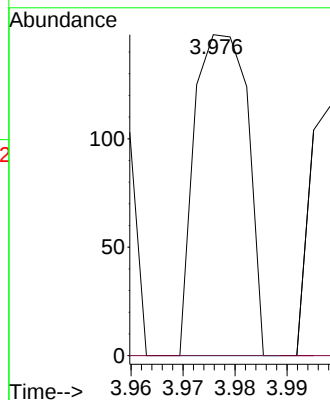
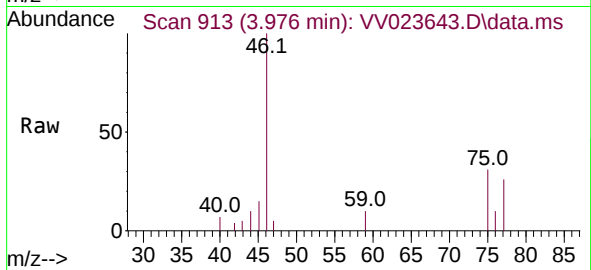




#21
2-Butanone
Concen: 0.093 ug/L
RT: 3.976 min Scan# 916
Delta R.T. -0.010 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

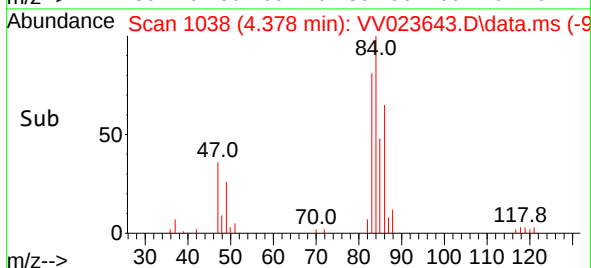
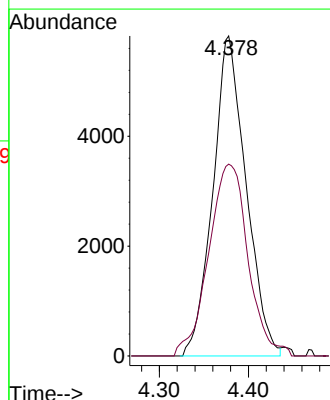
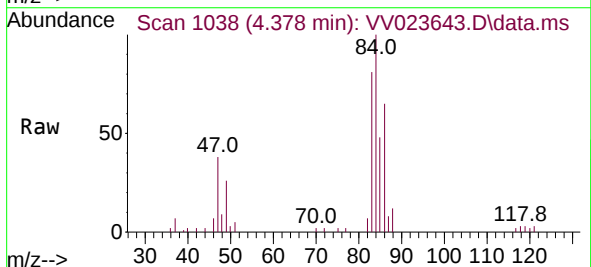
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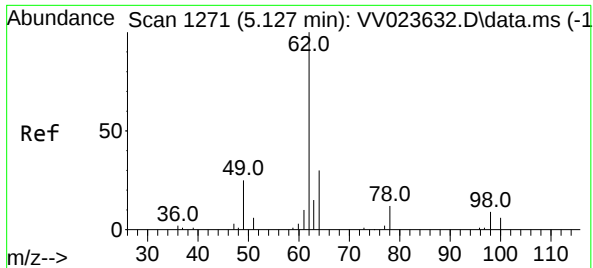
Tgt Ion: 43 Resp: 105
Ion Ratio Lower Upper
43 100
72 0.0 11.9 35.9#



#25
Chloroform
Concen: 1.076 ug/L
RT: 4.378 min Scan# 1038
Delta R.T. 0.010 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

Tgt Ion: 83 Resp: 15084
Ion Ratio Lower Upper
83 100
85 59.9 46.8 86.8





#27

1,2-Dichloroethane

Concen: 0.093 ug/L

RT: 5.056 min Scan# 1249

Delta R.T. -0.071 min

Lab File: VV023643.D

Acq: 19 Nov 2021 15:04

Instrument :

MSVOA_V

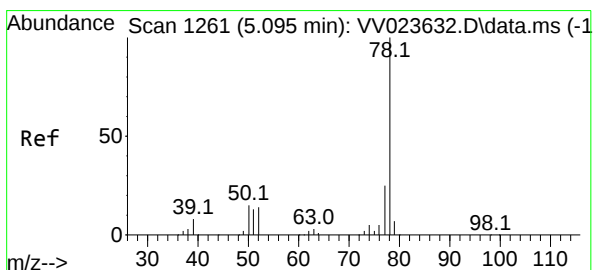
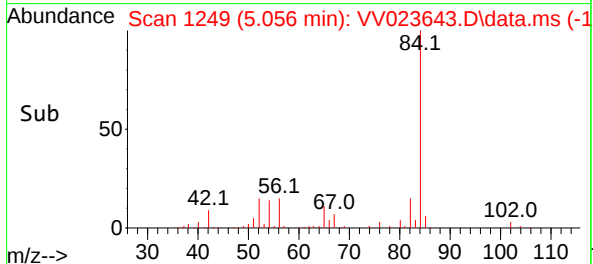
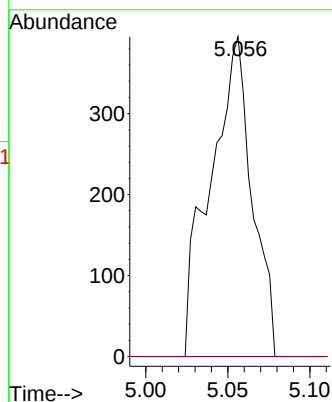
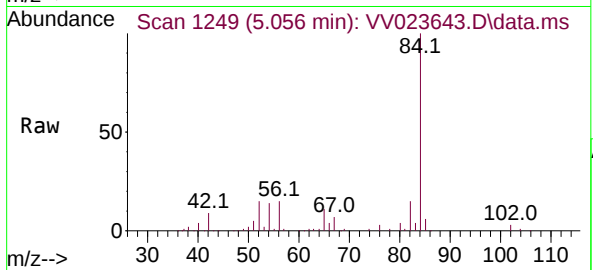
ClientSampleId :

Tgt Ion: 62 Resp: 696

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#



#33

Benzene

Concen: 0.031 ug/L

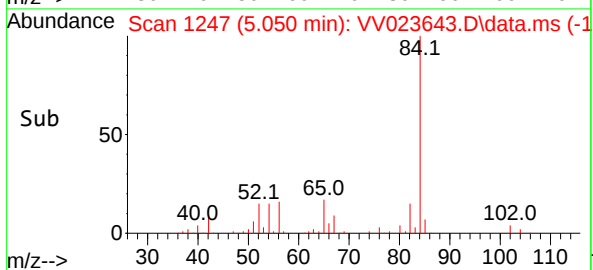
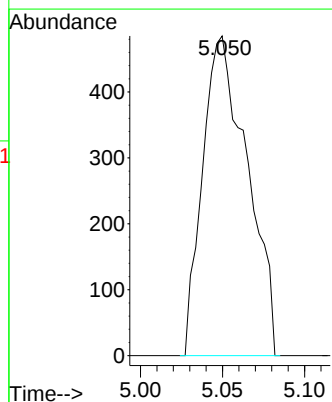
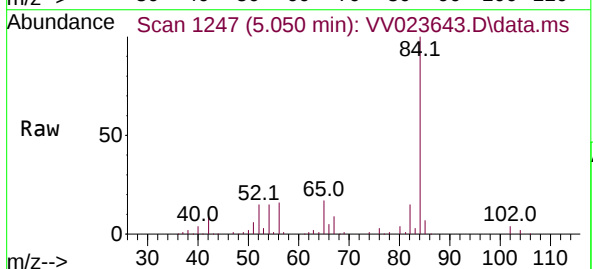
RT: 5.050 min Scan# 1247

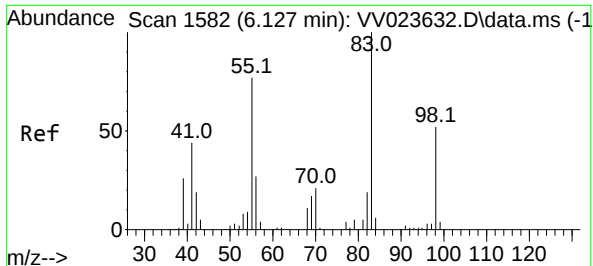
Delta R.T. -0.045 min

Lab File: VV023643.D

Acq: 19 Nov 2021 15:04

Tgt Ion: 78 Resp: 917





#35

Methylcyclohexane

Concen: 0.738 ug/L

RT: 6.072 min Scan# 1

Delta R.T. -0.055 min

Lab File: VV023643.D

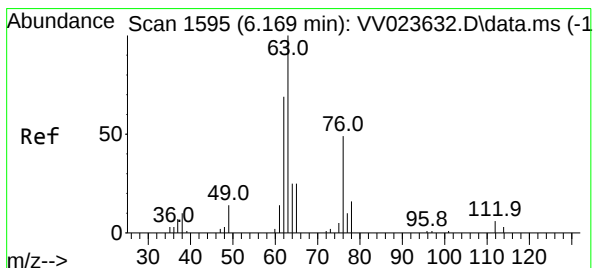
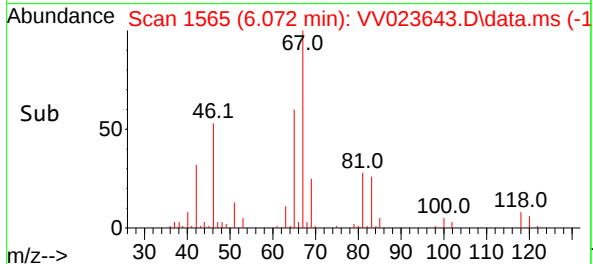
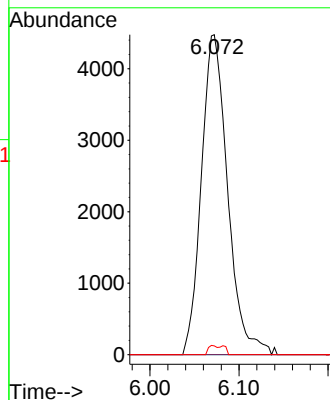
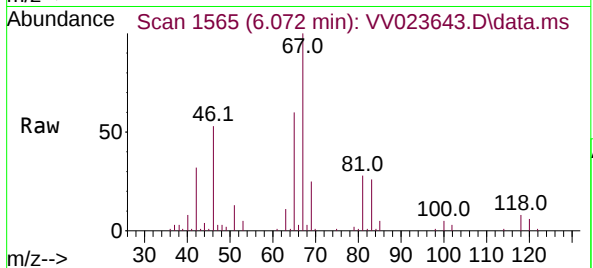
Acq: 19 Nov 2021 15:04

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	83	Resp:	9200
Ion	Ratio	Lower	Upper
83	100		
55	0.0	62.8	94.2#
98	1.0	37.9	56.9#



#37

1,2-Dichloropropane

Concen: 0.598 ug/L

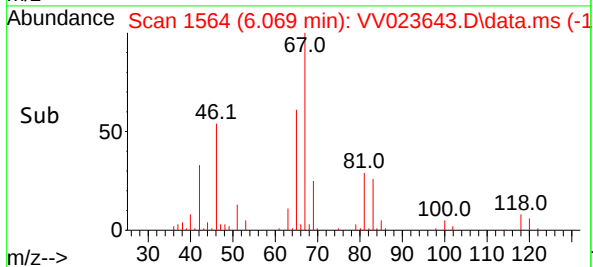
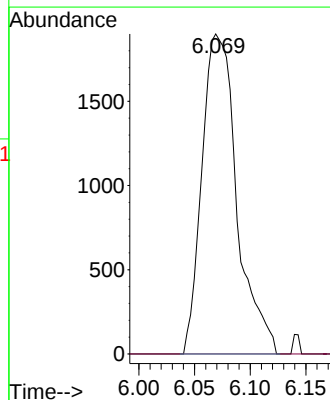
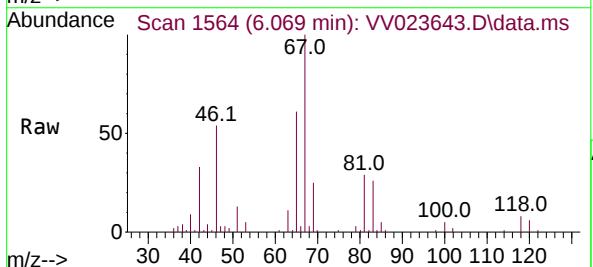
RT: 6.069 min Scan# 1564

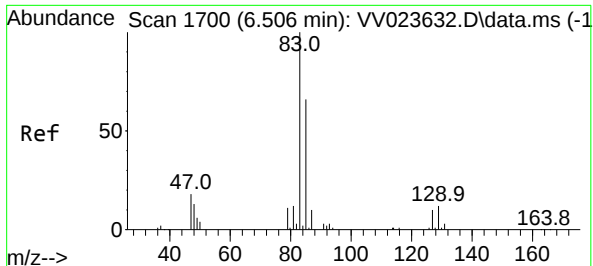
Delta R.T. -0.100 min

Lab File: VV023643.D

Acq: 19 Nov 2021 15:04

Tgt Ion:	63	Resp:	4149
Ion	Ratio	Lower	Upper
63	100		
112	0.0	4.6	6.8#

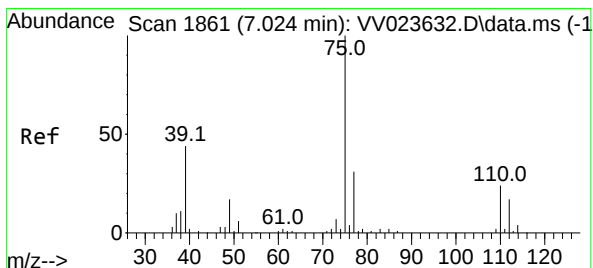
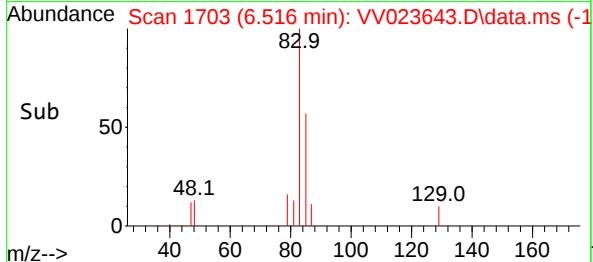
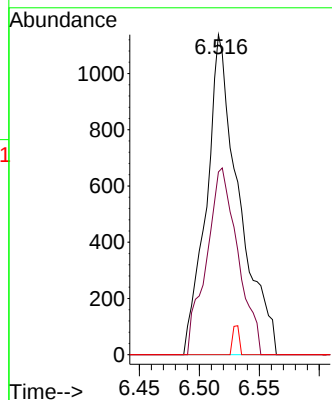
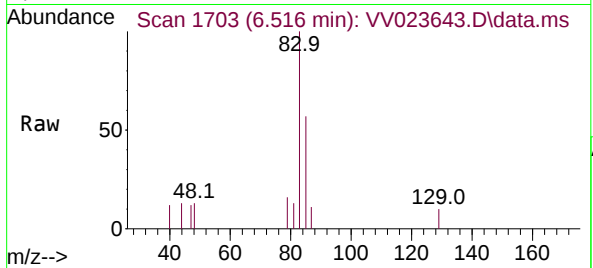




#38
Bromodichloromethane
Concen: 0.230 ug/L
RT: 6.516 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

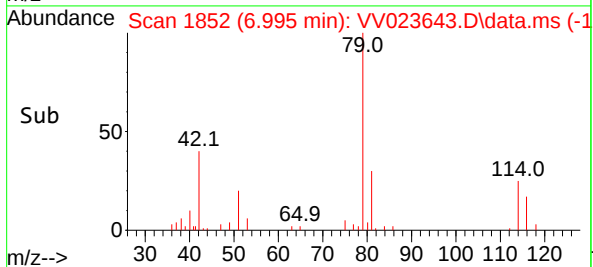
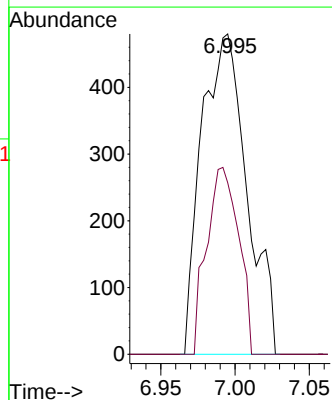
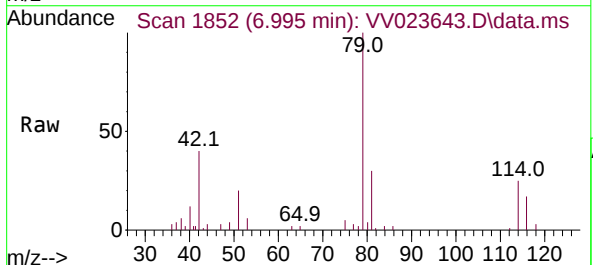
Instrument :
MSVOA_V
ClientSampleId :

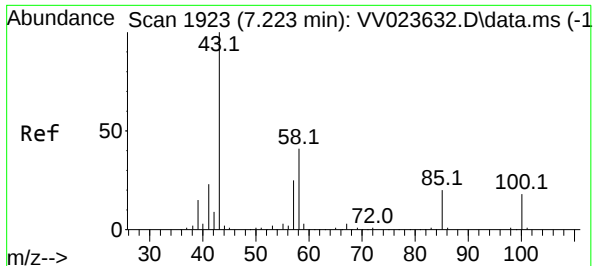
Tgt Ion: 83 Resp: 2141
Ion Ratio Lower Upper
83 100
85 57.1 46.1 85.7
127 0.0 7.2 10.8#



#39
cis-1,3-Dichloropropene
Concen: 0.102 ug/L
RT: 6.995 min Scan# 1852
Delta R.T. -0.029 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

Tgt Ion: 75 Resp: 1020
Ion Ratio Lower Upper
75 100
77 53.5 21.6 40.2#





#40

4-Methyl-2-pentanone

Concen: 0.006 ug/L

RT: 7.239 min Scan# 1923

Delta R.T. 0.016 min

Lab File: VV023643.D

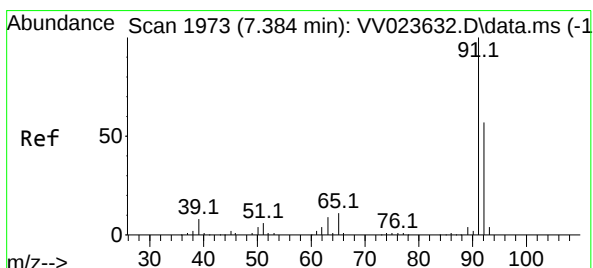
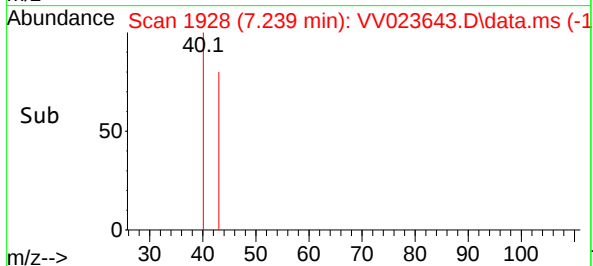
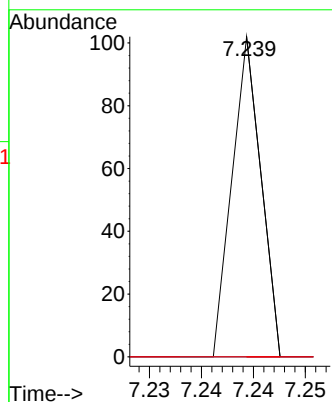
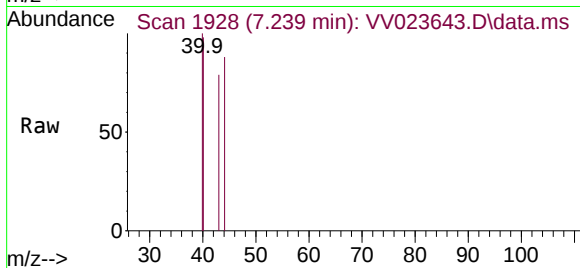
Acq: 19 Nov 2021 15:04

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: 0.048 ug/L

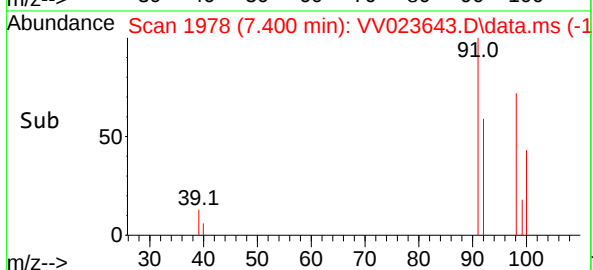
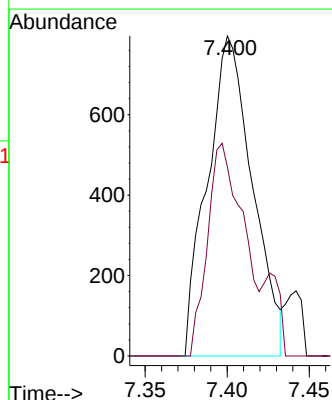
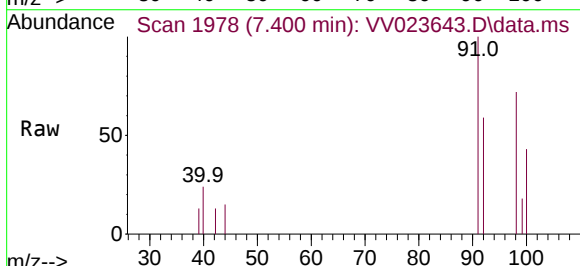
RT: 7.400 min Scan# 1978

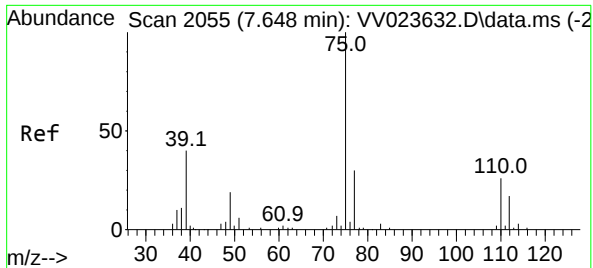
Delta R.T. 0.016 min

Lab File: VV023643.D

Acq: 19 Nov 2021 15:04

Tgt Ion:	91	Resp:	1520
Ion	Ratio	Lower	Upper
91	100		
92	59.0	39.3	72.9

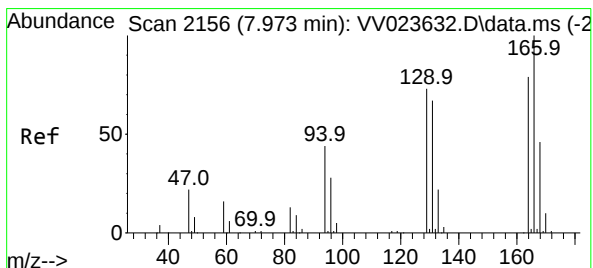
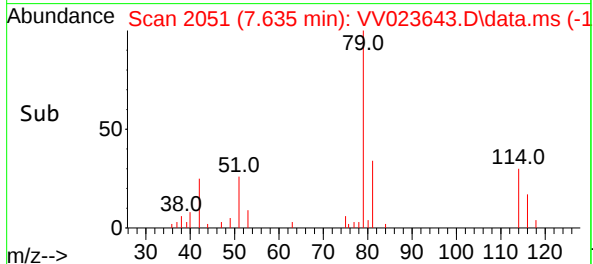
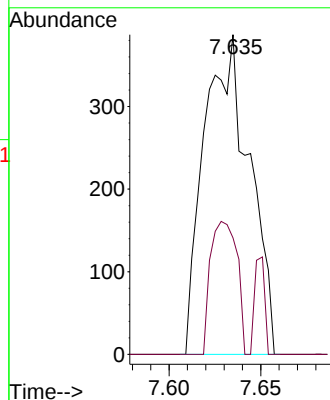
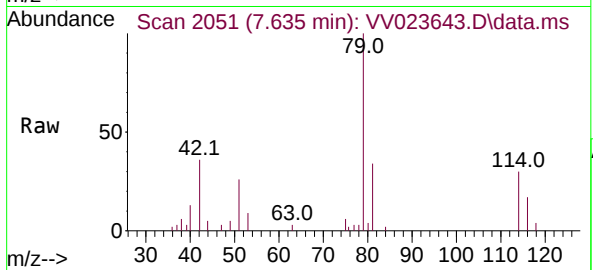




#44
trans-1,3-Dichloropropene
Concen: 0.080 ug/L
RT: 7.635 min Scan# 2055
Delta R.T. -0.013 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

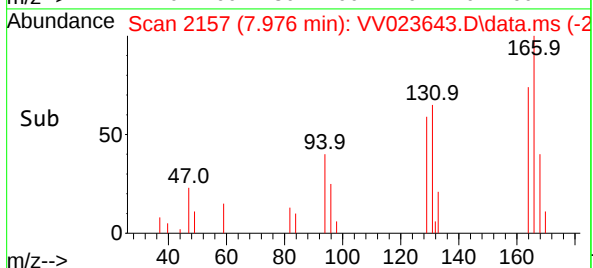
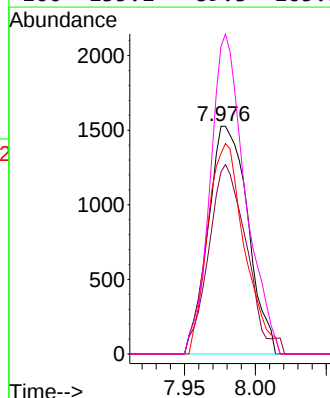
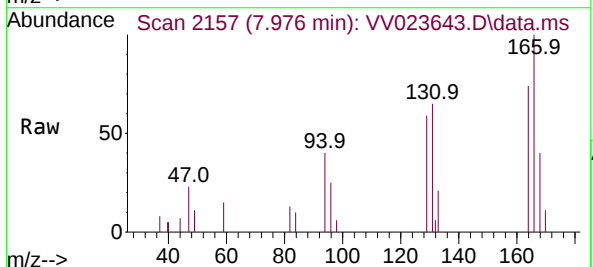
Instrument :
MSVOA_V
ClientSampleId :

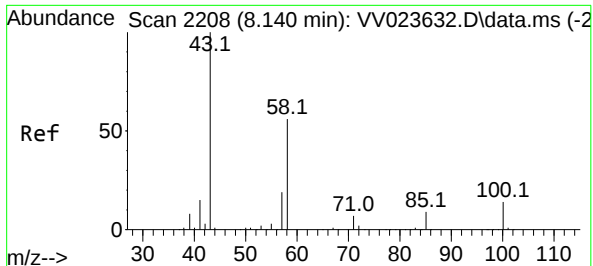
Tgt Ion: 75 Resp: 664
Ion Ratio Lower Upper
75 100
77 36.4 22.5 41.7



#47
Tetrachloroethene
Concen: 0.435 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. 0.003 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

Tgt Ion: 164 Resp: 2979
Ion Ratio Lower Upper
164 100
129 80.0 64.0 119.0
131 88.1 63.4 117.8
166 135.1 89.3 165.9

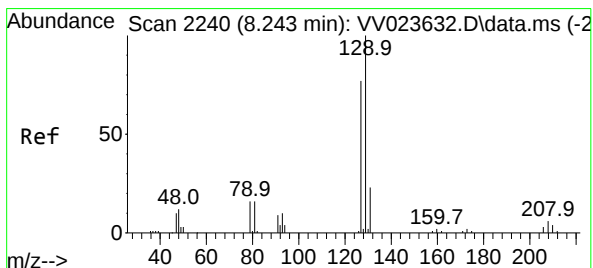
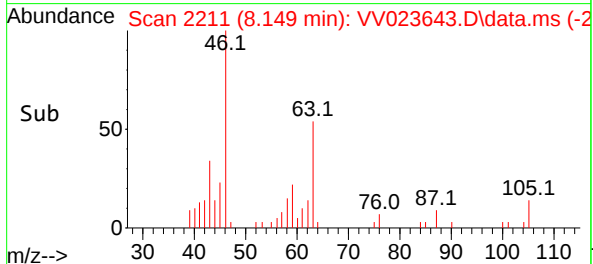
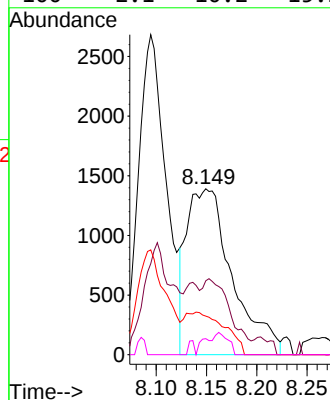
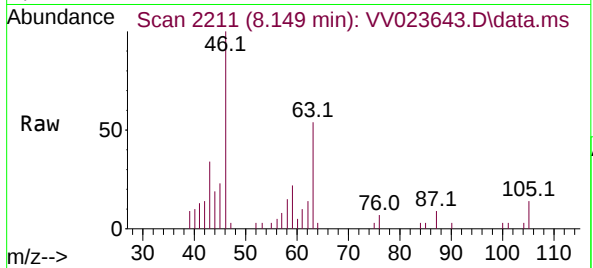




#48
2-Hexanone
Concen: 1.945 ug/L
RT: 8.149 min Scan# 2118
Delta R.T. 0.009 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

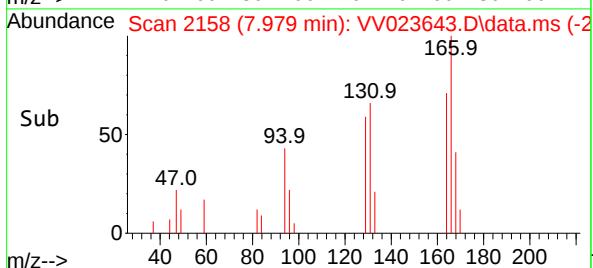
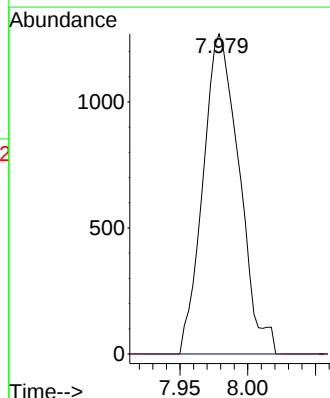
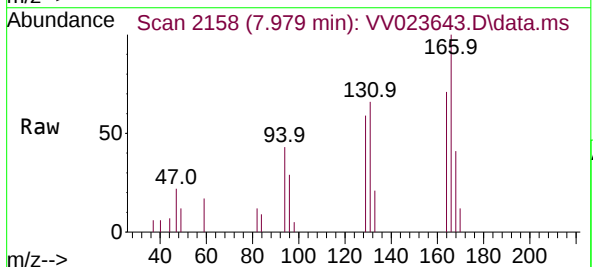
Instrument :
MSVOA_V
ClientSampleId :

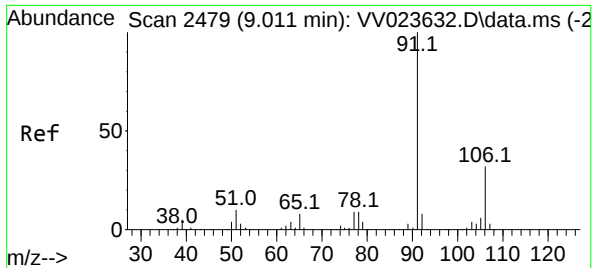
Tgt Ion: 43	Resp: 4382
Ion Ratio	Lower Upper
43 100	
58 25.9	43.7 65.5#
57 0.0	14.1 21.1#
100 2.1	10.2 15.2#



#49
Dibromochloromethane
Concen: 0.373 ug/L
RT: 7.979 min Scan# 2158
Delta R.T. -0.264 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

Tgt Ion:129	Resp:	2355	
Ion	Ratio	Lower	Upper
129	100		
127	0.0	54.7	101.7#

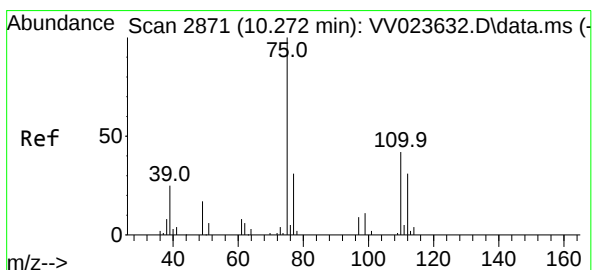
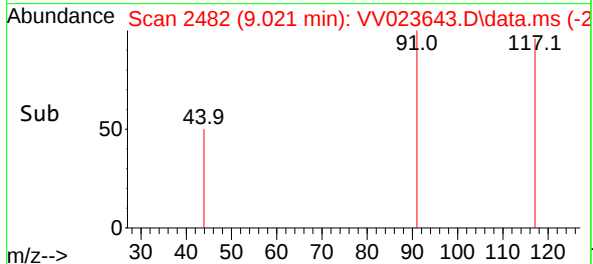
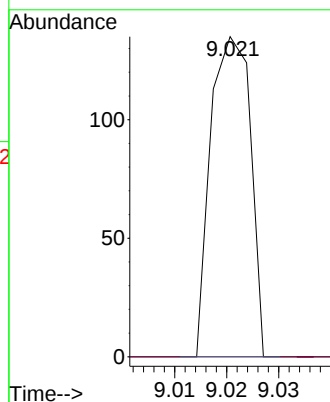
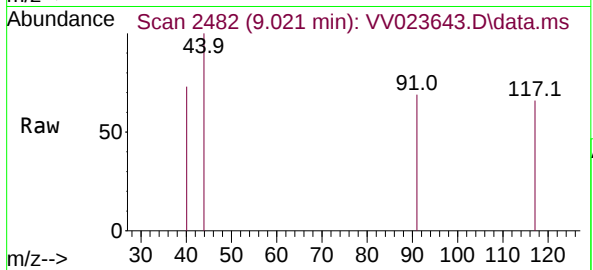




#52
Ethylbenzene
Concen: 0.002 ug/L
RT: 9.021 min Scan# 24
Delta R.T. 0.009 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

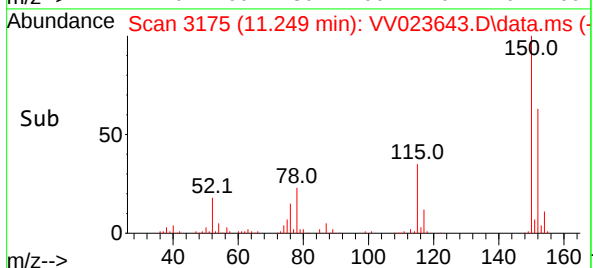
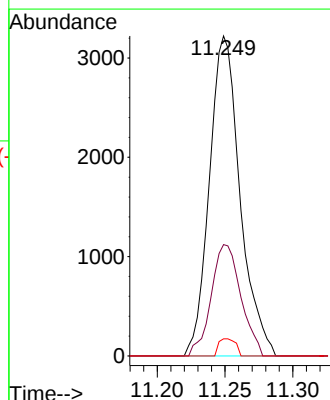
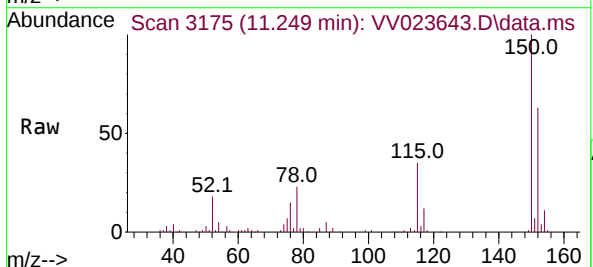
Instrument :
MSVOA_V
ClientSampleId :

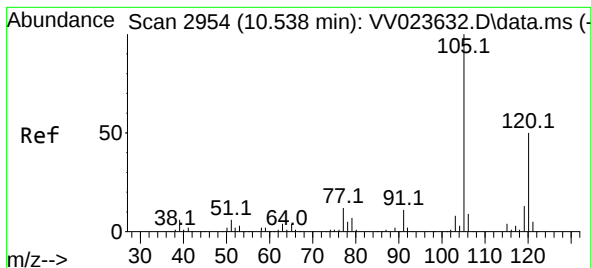
Tgt Ion: 91 Resp: 72
Ion Ratio Lower Upper
91 100
106 0.0 22.5 41.9#



#61
1,2,3-Trichloropropane
Concen: 1.586 ug/L
RT: 11.249 min Scan# 3175
Delta R.T. 0.977 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

Tgt Ion: 75 Resp: 5064
Ion Ratio Lower Upper
75 100
77 33.7 26.6 39.8
110 2.9 31.8 47.6#





#62

1,3,5-Trimethylbenzene

Concen: 0.002 ug/L

RT: 10.541 min Scan# 2954

Delta R.T. 0.003 min

Lab File: VV023643.D

Acq: 19 Nov 2021 15:04

Instrument :

MSVOA_V

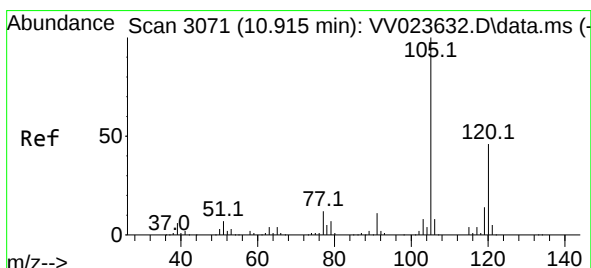
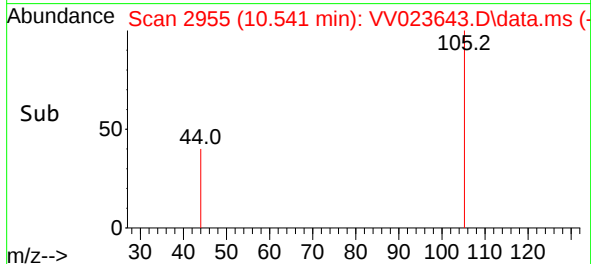
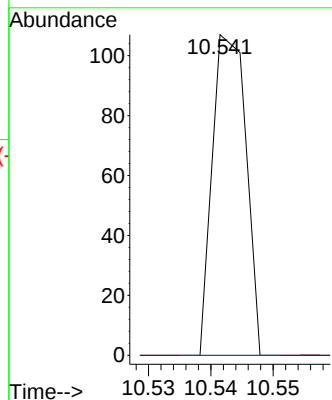
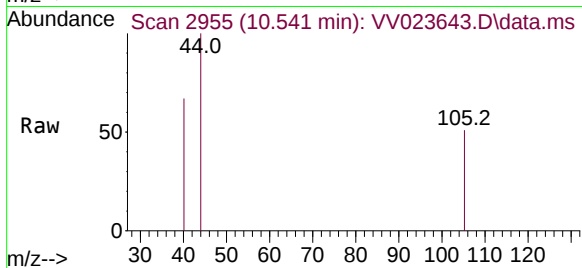
ClientSampleId :

Tgt Ion:105 Resp: 40

Ion Ratio Lower Upper

105 100

120 0.0 39.7 59.5#



#63

1,2,4-Trimethylbenzene

Concen: 0.009 ug/L

RT: 10.921 min Scan# 3073

Delta R.T. 0.006 min

Lab File: VV023643.D

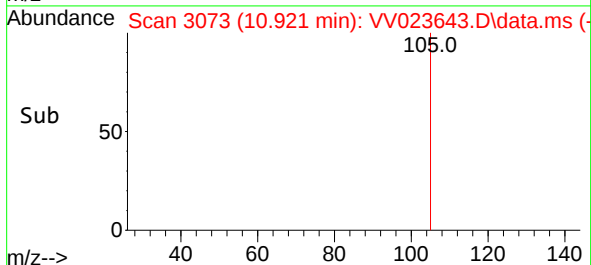
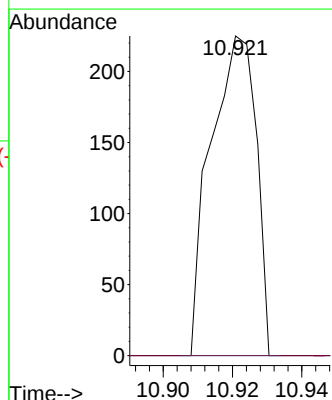
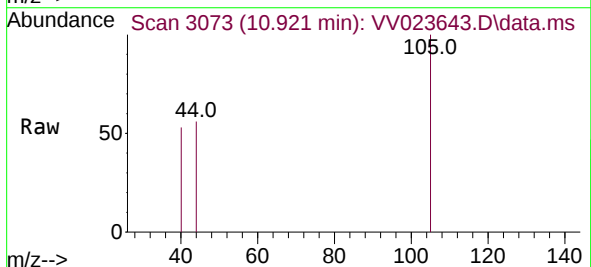
Acq: 19 Nov 2021 15:04

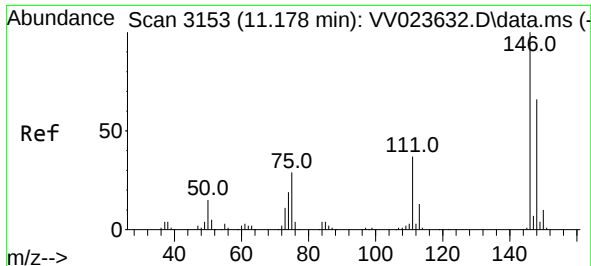
Tgt Ion:105 Resp: 205

Ion Ratio Lower Upper

105 100

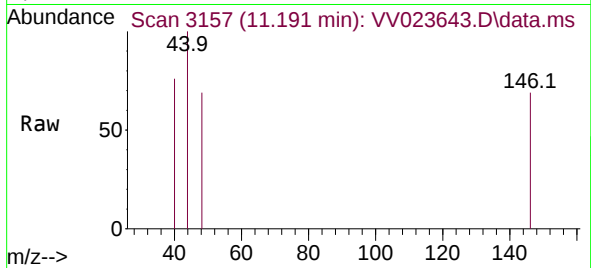
120 0.0 37.4 56.2#



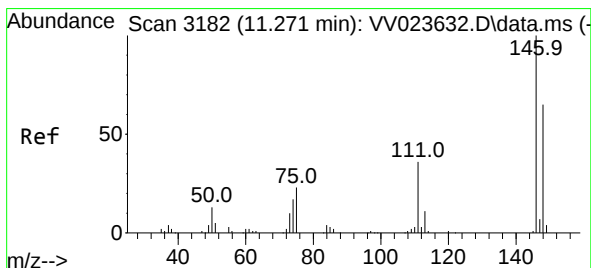
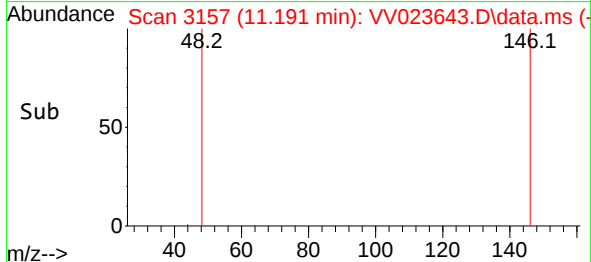
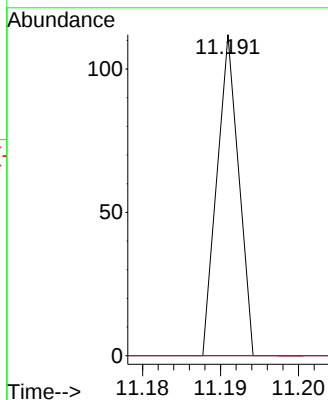


#64
1,3-Dichlorobenzene
Concen: 0.002 ug/L
RT: 11.191 min Scan# 3157
Delta R.T. 0.013 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:146 Resp: 22
Ion Ratio Lower Upper
146 100
111 0.0 26.7 49.7#
148 0.0 42.9 79.7#



#65
1,4-Dichlorobenzene
Concen: 0.002 ug/L
RT: 11.191 min Scan# 3157
Delta R.T. -0.081 min
Lab File: VV023643.D
Acq: 19 Nov 2021 15:04

Tgt Ion:146 Resp: 22
Ion Ratio Lower Upper
146 100
111 0.0 26.2 48.8#
148 0.0 44.4 82.5#

