

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV022822\
 Data File : VV024834.D
 Acq On : 28 Feb 2022 14:39
 Operator : SY/MD
 Sample : VSTDICV005
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VICV212

Quant Time: Mar 01 01:43:46 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM022822WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Mar 01 01:37:50 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	291934	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.850	117	282703	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.246	152	140434	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	141728	47.745	ug/L	0.00
Spiked Amount 50.000	Range 60	- 135	Recovery	=	95.500%	
7) Chloroethane-d5	1.568	69	110755	47.556	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	=	95.120%	
11) 1,1-Dichloroethene-d2	2.108	63	239364	48.043	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	=	96.080%	
21) 2-Butanone-d5	3.886	46	179557	106.289	ug/L	0.00
Spiked Amount 100.000	Range 40	- 130	Recovery	=	106.290%	
24) Chloroform-d	4.346	84	263184	50.790	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	101.580%	
26) 1,2-Dichloroethane-d4	5.027	65	154033	50.381	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	100.760%	
32) Benzene-d6	5.047	84	546991	52.201	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	104.400%	
36) 1,2-Dichloropropane-d6	6.066	67	166683	51.056	ug/L	0.00
Spiked Amount 50.000	Range 70	- 120	Recovery	=	102.120%	
41) Toluene-d8	7.314	98	491960	52.995	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	=	106.000%	
43) trans-1,3-Dichloroprop...	7.619	79	77151	54.387	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	=	108.780%	
47) 2-Hexanone-d5	8.085	63	142955	115.361	ug/L	0.00
Spiked Amount 100.000	Range 45	- 130	Recovery	=	115.360%	
56) 1,1,2,2-Tetrachloroeth...	10.214	84	204049	52.695	ug/L	0.00
Spiked Amount 50.000	Range 65	- 120	Recovery	=	105.400%	
66) 1,2-Dichlorobenzene-d4	11.622	152	174958	54.084	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	=	108.160%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.130	85	134675	48.861	ug/L	100
3) Chloromethane	1.243	50	132490	46.463	ug/L	100
5) Vinyl chloride	1.314	62	136217	46.558	ug/L	99
6) Bromomethane	1.523	94	83886	47.996	ug/L	99
8) Chloroethane	1.587	64	79288	46.242	ug/L	100
9) Trichlorofluoromethane	1.754	101	174387	46.608	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.118	101	103814	46.787	ug/L	98
12) 1,1-Dichloroethene	2.118	96	101437	46.942	ug/L	96
13) Acetone	2.182	43	93229	72.271	ug/L	98
14) Carbon disulfide	2.294	76	339826	51.478	ug/L	99
15) Methyl Acetate	2.433	43	108508	48.966	ug/L	99
16) Methylene chloride	2.507	84	124908	49.357	ug/L	96
17) trans-1,2-Dichloroethene	2.761	96	118605	50.751	ug/L	96
18) Methyl tert-butyl Ether	2.767	73	360743	50.626	ug/L	99
19) 1,1-Dichloroethane	3.188	63	205998	48.888	ug/L	99
20) cis-1,2-Dichloroethene	3.909	96	127568	50.428	ug/L	97
22) 2-Butanone	3.970	43	147237	99.540	ug/L	99
23) Bromochloromethane	4.246	128	62669	49.535	ug/L	97

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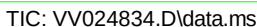
Quant Time: Mar 01 01:43:46 2022
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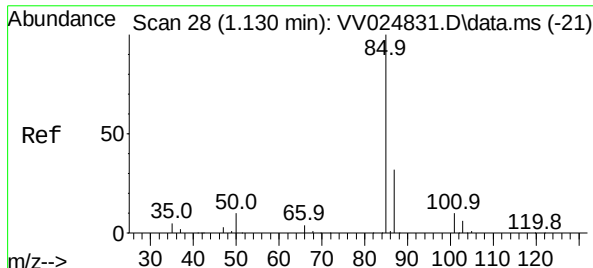
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	4.372	83	211768	48.381	ug/L	99
27) 1,2-Dichloroethane	5.127	62	148474	48.608	ug/L	97
29) Cyclohexane	4.677	56	189242	51.175	ug/L	99
30) 1,1,1-Trichloroethane	4.606	97	184197	49.481	ug/L	99
31) Carbon tetrachloride	4.825	117	157067	49.625	ug/L	99
33) Benzene	5.095	78	481120	50.427	ug/L	100
34) Trichloroethene	5.912	95	129225	49.408	ug/L	99
35) Methylcyclohexane	6.127	83	206986	52.161	ug/L	98
37) 1,2-Dichloropropane	6.169	63	121450	50.728	ug/L	100
38) Bromodichloromethane	6.506	83	156924	50.019	ug/L	99
39) cis-1,3-Dichloropropene	7.024	75	186752	51.828	ug/L	100
40) 4-Methyl-2-pentanone	7.223	43	286501	100.372	ug/L	98
42) Toluene	7.384	91	510629	51.290	ug/L	100
44) trans-1,3-Dichloropropene	7.648	75	176882	53.432	ug/L	99
45) 1,1,2-Trichloroethane	7.834	97	115907	49.827	ug/L	98
46) Tetrachloroethene	7.973	164	87382	51.731	ug/L	94
48) 2-Hexanone	8.137	43	219190	97.571	ug/L	98
49) Dibromochloromethane	8.243	129	118293	52.622	ug/L	98
50) 1,2-Dibromoethane	8.349	107	123668	51.550	ug/L	100
51) Chlorobenzene	8.879	112	315429	50.224	ug/L	100
52) Ethylbenzene	9.008	91	550295	52.407	ug/L	99
53) m,p-Xylene	9.137	106	212824	52.747	ug/L	100
54) o-Xylene	9.542	106	206241	52.901	ug/L	98
55) Styrene	9.558	104	352200	53.243	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.239	83	165557	50.882	ug/L	98
59) Bromoform	9.728	173	69325	54.190	ug/L	100
60) Isopropylbenzene	9.928	105	538459	52.796	ug/L	99
61) 1,2,3-Trichloropropane	10.268	75	140416	49.970	ug/L	100
62) 1,3,5-Trimethylbenzene	10.535	105	376369	54.696	ug/L	100
63) 1,2,4-Trimethylbenzene	10.911	105	464365	55.059	ug/L	100
64) 1,3-Dichlorobenzene	11.178	146	236250	52.789	ug/L	99
65) 1,4-Dichlorobenzene	11.268	146	238413	52.035	ug/L	98
67) 1,2-Dichlorobenzene	11.638	146	232173	51.547	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.426	75	34943	54.472	ug/L	90
69) 1,3,5-Trichlorobenzene	12.641	180	164622	54.493	ug/L	100
70) 1,2,4-trichlorobenzene	13.259	180	150030	57.000	ug/L	99
71) Naphthalene	13.500	128	536079	62.861	ug/L	99
72) 1,2,3-Trichlorobenzene	13.741	180	148632	57.266	ug/L	99

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

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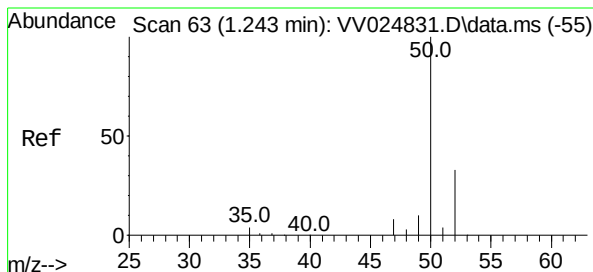
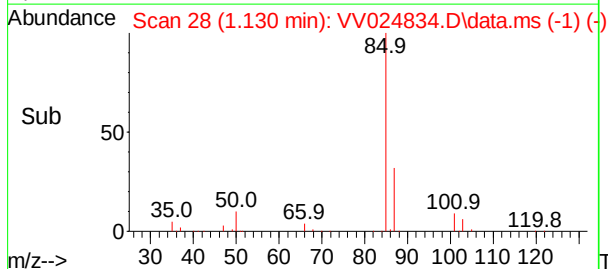
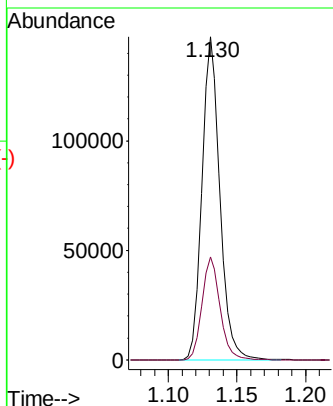
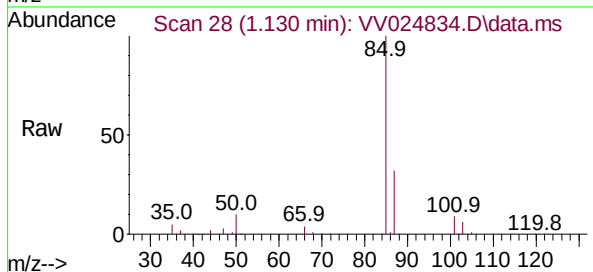




Dichlorodifluoromethane
 Concen: 48.861 ug/L
 RT: 1.130 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: VV024834.D
 Acq: 28 Feb 2022 14:39

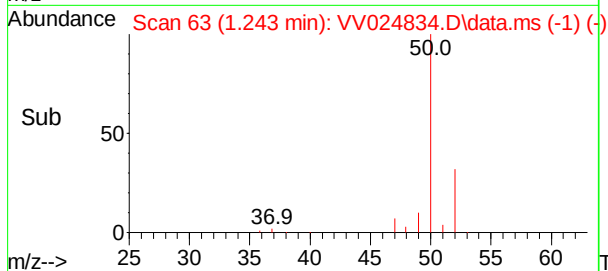
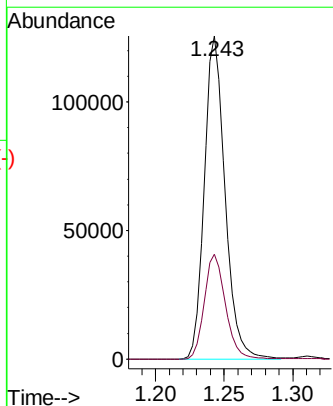
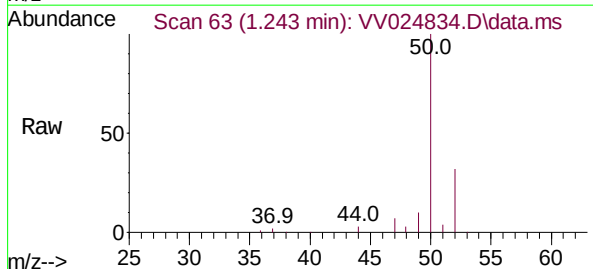
Instrument :
 MSVOA_V
 ClientSampleId :
 VICV212

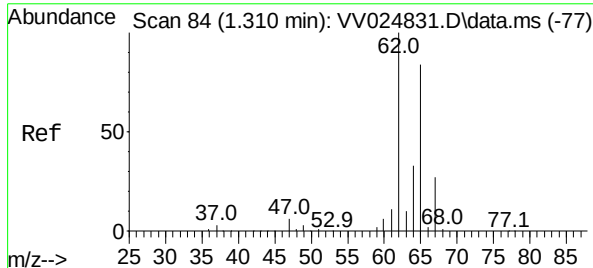
Tgt Ion: 85 Resp: 134675
 Ion Ratio Lower Upper
 85 100
 87 32.2 25.8 38.8



Chloromethane
 Concen: 46.463 ug/L
 RT: 1.243 min Scan# 63
 Delta R.T. 0.000 min
 Lab File: VV024834.D
 Acq: 28 Feb 2022 14:39

Tgt Ion: 50 Resp: 132490
 Ion Ratio Lower Upper
 50 100
 52 32.5 22.8 42.4





Vinyl chloride

Concen: 46.558 ug/L

RT: 1.314 min Scan# 84

Delta R.T. 0.003 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Instrument :

MSVOA_V

ClientSampleId :

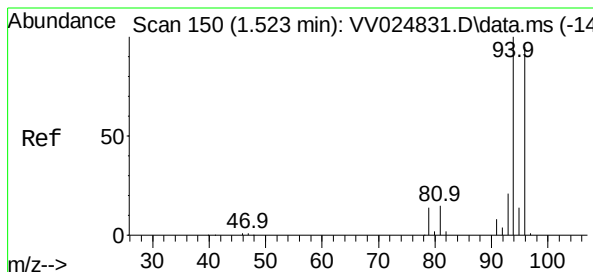
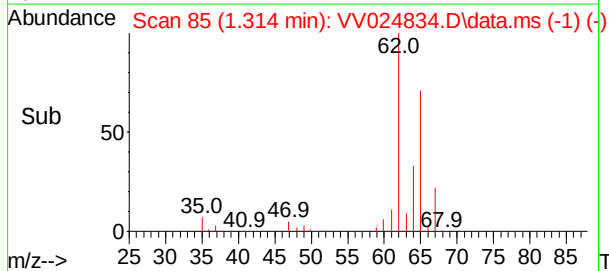
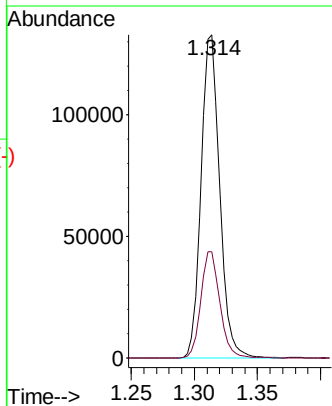
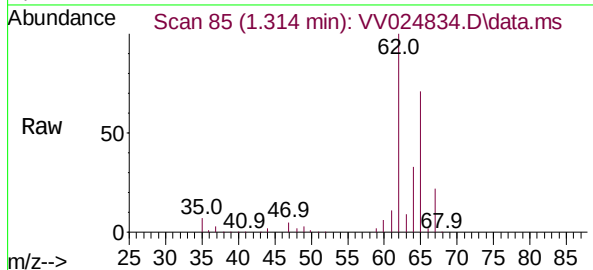
VICV212

Tgt Ion: 62 Resp: 136217

Ion Ratio Lower Upper

62 100

64 32.8 23.2 43.0



Bromomethane

Concen: 47.996 ug/L

RT: 1.523 min Scan# 150

Delta R.T. 0.000 min

Lab File: VV024834.D

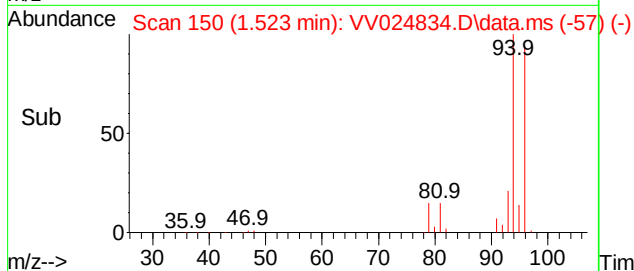
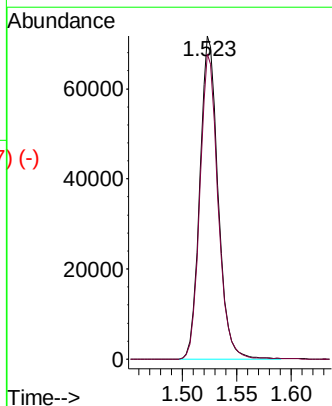
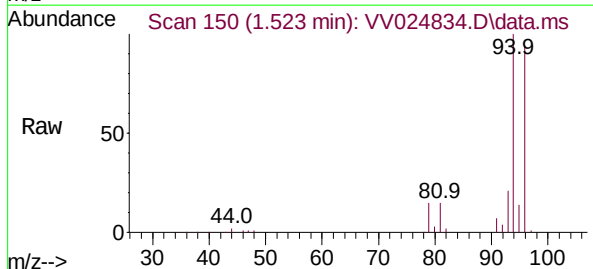
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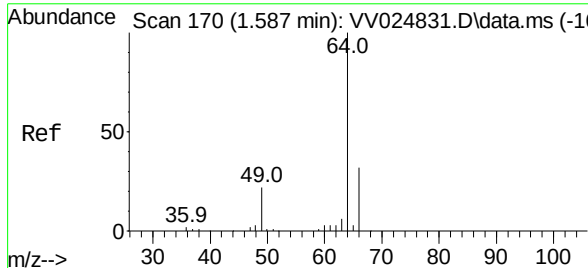
Tgt Ion: 94 Resp: 83886

Ion Ratio Lower Upper

94 100

96 94.5 66.7 123.9





Chloroethane

Concen: 46.242 ug/L

RT: 1.587 min Scan# 170

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Instrument :

MSVOA_V

ClientSampleId :

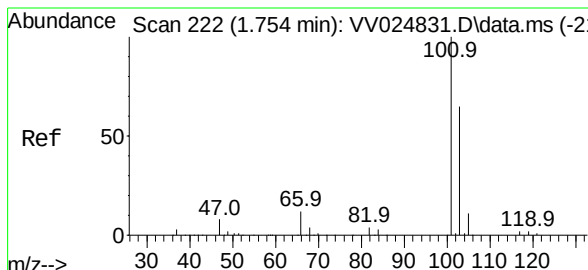
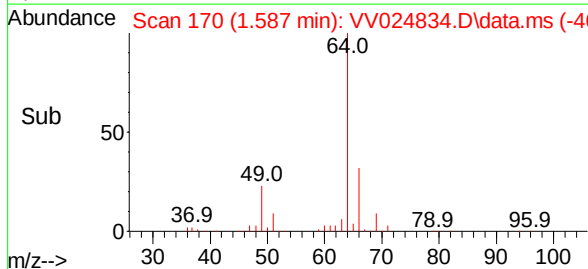
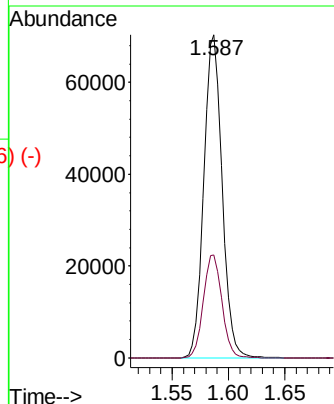
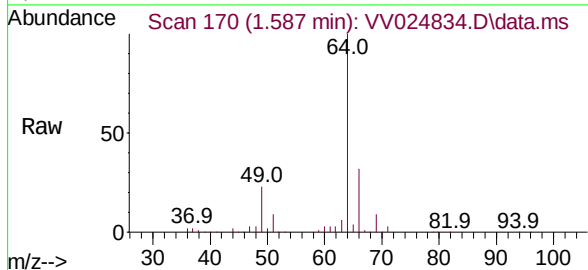
VICV212

Tgt Ion: 64 Resp: 79288

Ion Ratio Lower Upper

64 100

66 32.0 22.2 41.2



Trichlorofluoromethane

Concen: 46.608 ug/L

RT: 1.754 min Scan# 222

Delta R.T. 0.000 min

Lab File: VV024834.D

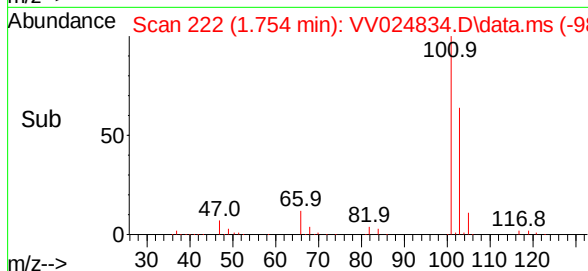
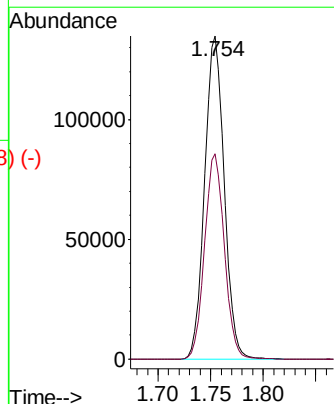
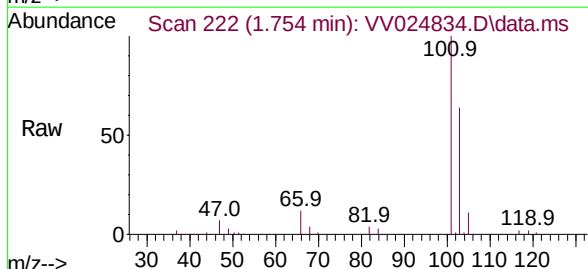
Acq: 28 Feb 2022 14:39

Tgt Ion:101 Resp: 174387

Ion Ratio Lower Upper

101 100

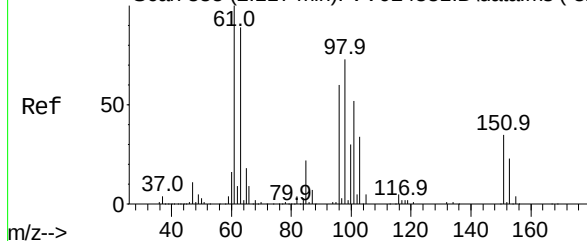
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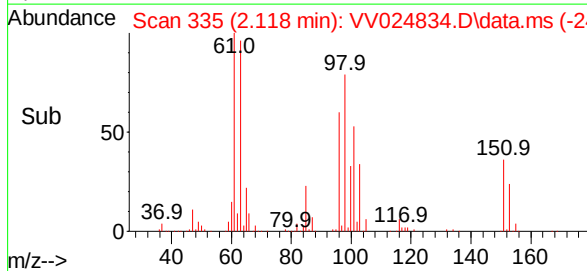
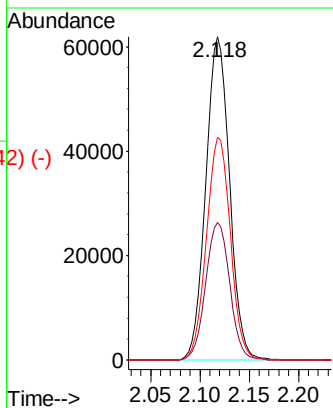
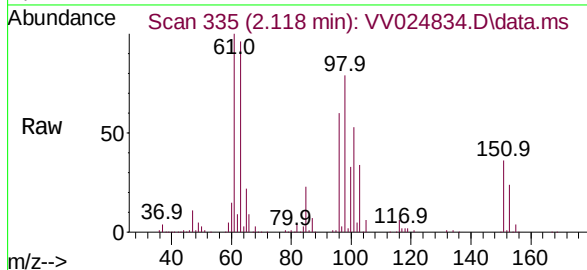
Abundance Scan 335 (2.117 min): VV024831.D\data.ms (-323) #10

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 46.787 ug/L
RT: 2.118 min Scan# 335
Delta R.T. 0.000 min
Lab File: VV024834.D
Acq: 28 Feb 2022 14:39

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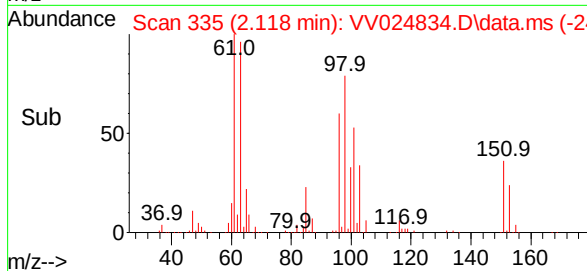
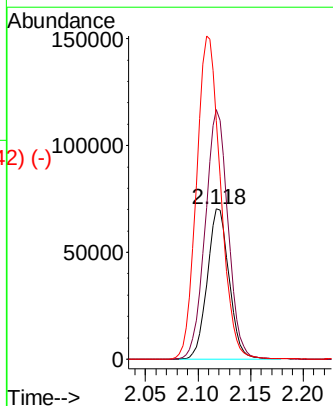
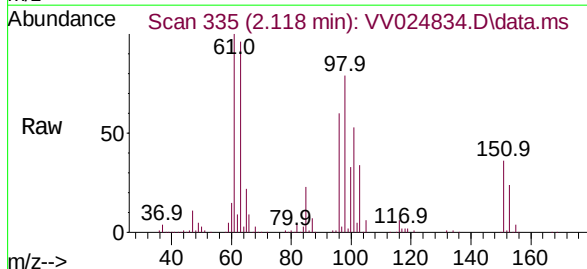
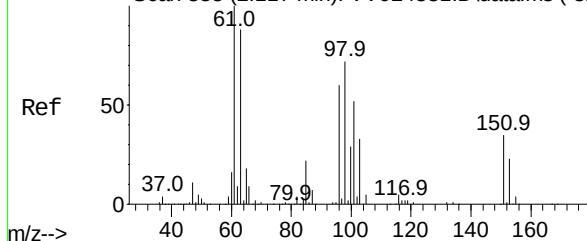
Tgt Ion:	101	Resp:	103814
Ion	Ratio	Lower	Upper
101	100		
85	43.0	33.8	50.8
151	69.5	54.1	81.1

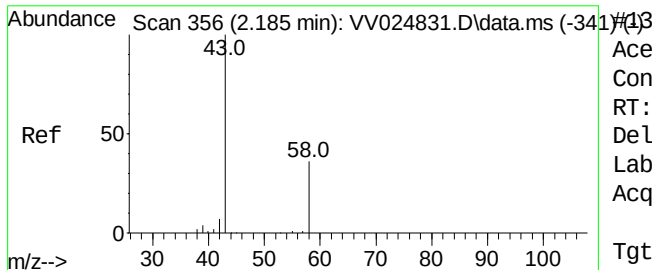


Abundance Scan 335 (2.117 min): VV024831.D\data.ms (-324) #12

1,1-Dichloroethene
Concen: 46.942 ug/L
RT: 2.118 min Scan# 335
Delta R.T. 0.000 min
Lab File: VV024834.D
Acq: 28 Feb 2022 14:39

Tgt Ion:	96	Resp:	101437
Ion	Ratio	Lower	Upper
96	100		
61	166.2	117.6	218.4
63	159.0	105.3	195.5





Acetone

Concen: 72.271 ug/L

RT: 2.182 min Scan#

Delta R.T. -0.003 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

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ClientSampleId :

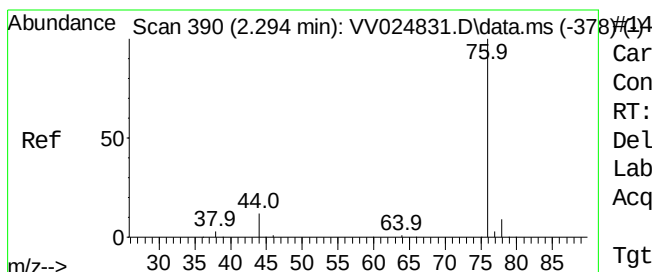
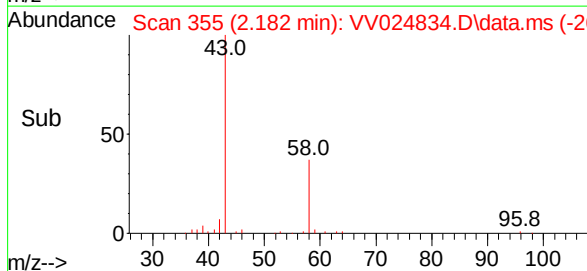
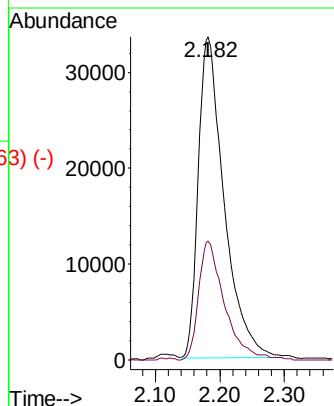
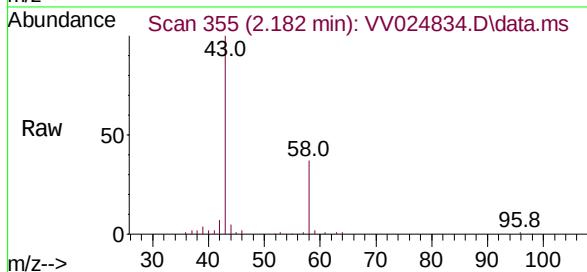
VICV212

Tgt Ion: 43 Resp: 93229

Ion Ratio Lower Upper

43 100

58 36.1 0.0 70.0



Carbon disulfide

Concen: 51.478 ug/L

RT: 2.294 min Scan# 390

Delta R.T. 0.000 min

Lab File: VV024834.D

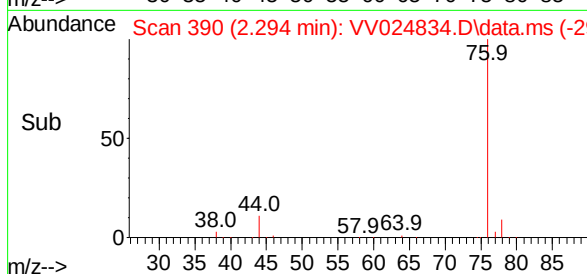
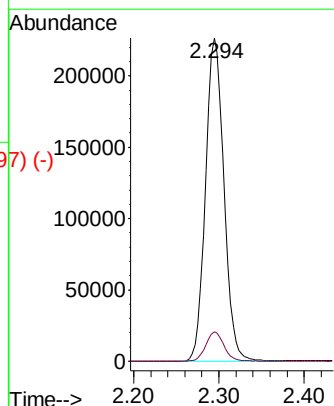
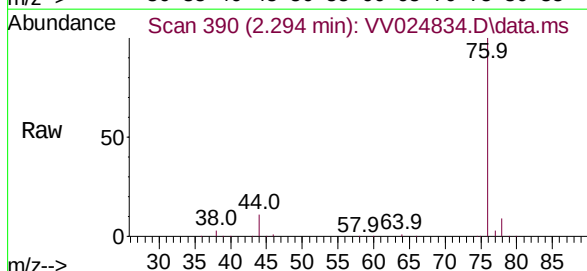
Acq: 28 Feb 2022 14:39

Tgt Ion: 76 Resp: 339826

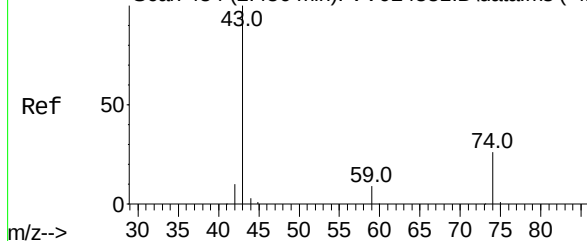
Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0



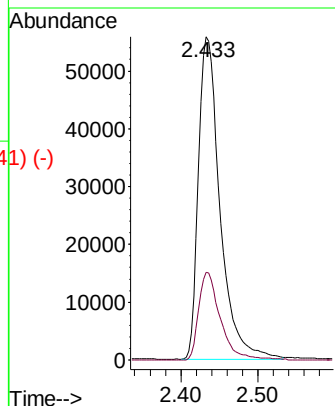
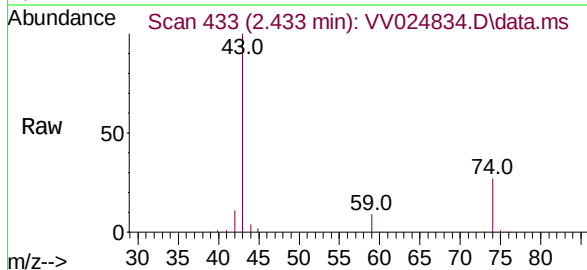
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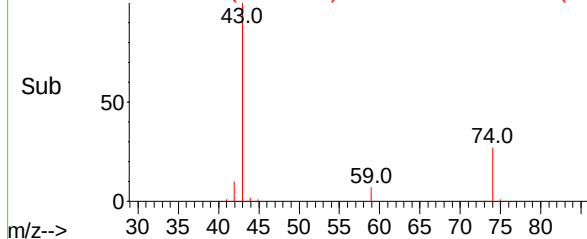
Methyl Acetate
Concen: 48.966 ug/L
RT: 2.433 min Scan# 415
Delta R.T. -0.003 min
Lab File: VV024834.D
Acq: 28 Feb 2022 14:39

Instrument :
MSVOA_V
ClientSampleId :
VICV212

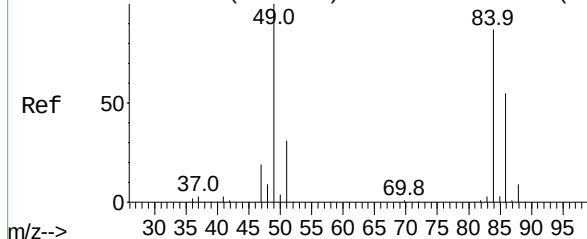
Tgt Ion: 43 Resp: 108508
Ion Ratio Lower Upper
43 100
74 26.8 21.0 31.4



Abundance Scan 433 (2.433 min): VV024834.D\data.ms (-341) (-)

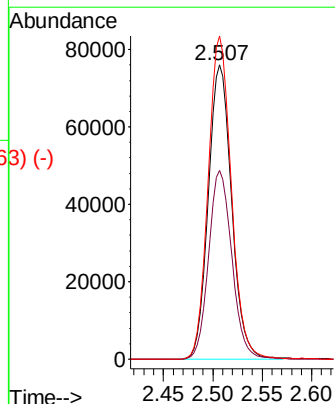
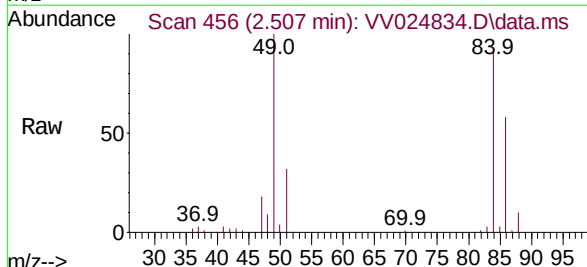


Abundance Scan 456 (2.507 min): VV024831.D\data.ms (-444) #16

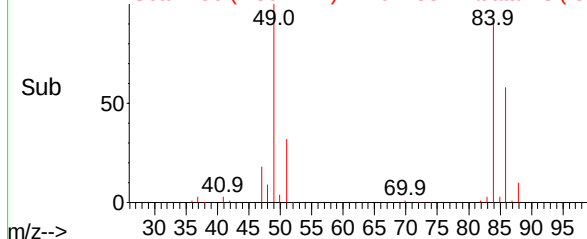


Methylene chloride
Concen: 49.357 ug/L
RT: 2.507 min Scan# 456
Delta R.T. 0.000 min
Lab File: VV024834.D
Acq: 28 Feb 2022 14:39

Tgt Ion: 84 Resp: 124908
Ion Ratio Lower Upper
84 100
86 64.2 44.3 82.3
49 109.7 80.7 149.9



Abundance Scan 456 (2.507 min): VV024834.D\data.ms (-363) (-)



Abundance Scan 535 (2.761 min): VV024831.D\data.ms (-524) #17

trans-1,2-Dichloroethene

Concen: 50.751 ug/L

RT: 2.761 min Scan# 535

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Instrument :

MSVOA_V

ClientSampleId :

VICV212

Tgt Ion: 96 Resp: 118605

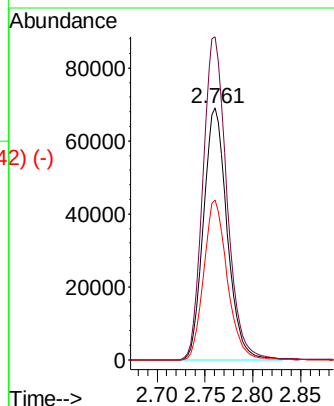
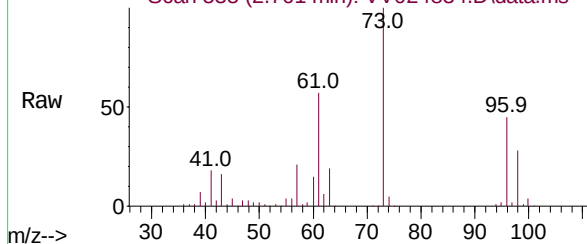
Ion Ratio Lower Upper

96 100

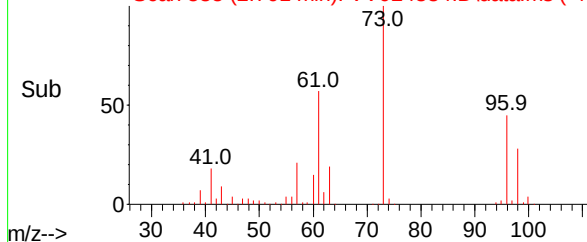
61 128.2 93.7 173.9

98 63.4 43.7 81.1

Abundance Scan 535 (2.761 min): VV024834.D\data.ms



Abundance Scan 535 (2.761 min): VV024834.D\data.ms (-442) (-)



Abundance Scan 537 (2.767 min): VV024831.D\data.ms (-521) #18

Methyl tert-butyl Ether

Concen: 50.626 ug/L

RT: 2.767 min Scan# 537

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Tgt Ion: 73 Resp: 360743

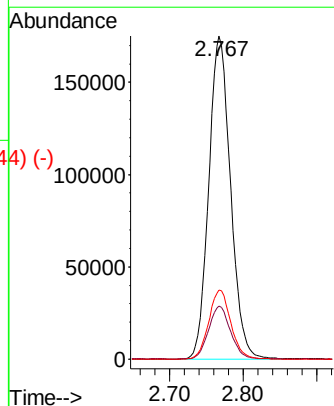
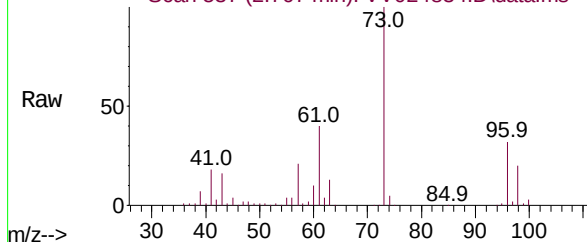
Ion Ratio Lower Upper

73 100

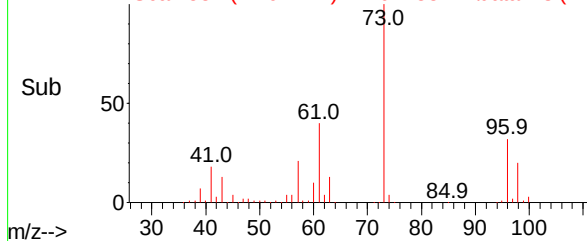
43 16.3 13.6 20.4

57 21.6 17.4 26.2

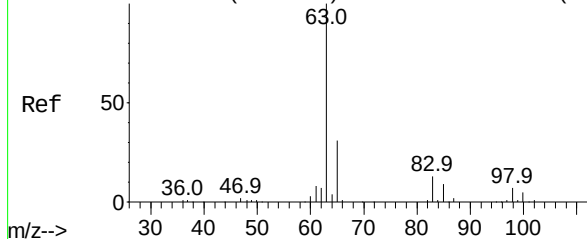
Abundance Scan 537 (2.767 min): VV024834.D\data.ms



Abundance Scan 537 (2.767 min): VV024834.D\data.ms (-444) (-)



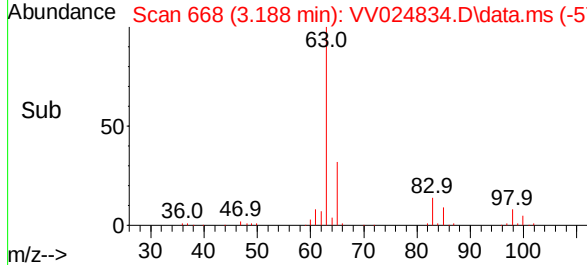
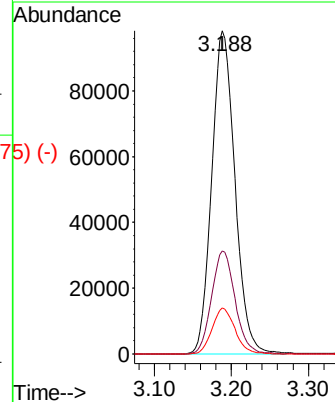
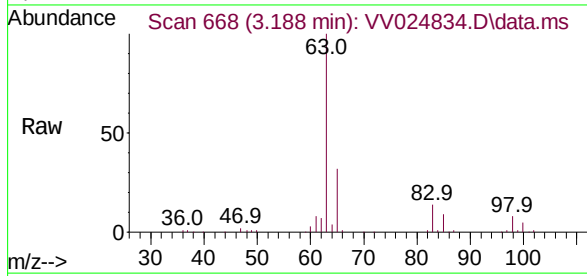
Abundance Scan 668 (3.188 min): VV024831.D\data.ms (-653) #19



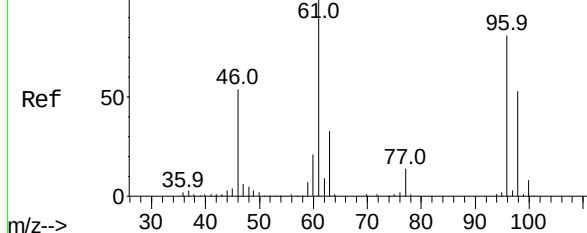
1,1-Dichloroethane
Concen: 48.888 ug/L
RT: 3.188 min Scan# 668
Delta R.T. 0.000 min
Lab File: VV024834.D
Acq: 28 Feb 2022 14:39

Instrument :
MSVOA_V
ClientSampleId :
VICV212

Tgt Ion:	63	Resp:	205998
Ion	Ratio	Lower	Upper
63	100		
65	31.9	22.0	40.8
83	14.2	9.2	17.0

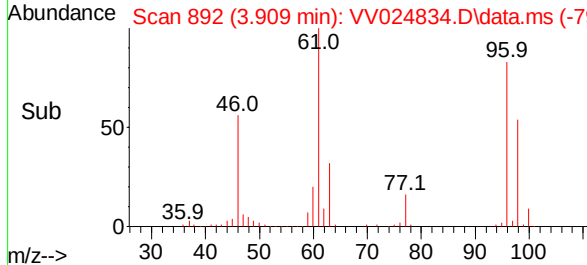
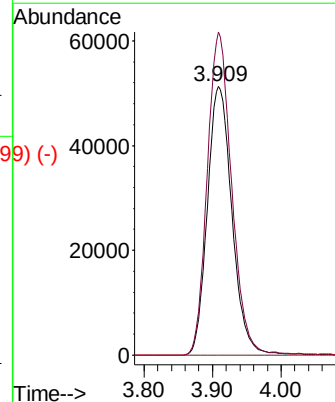
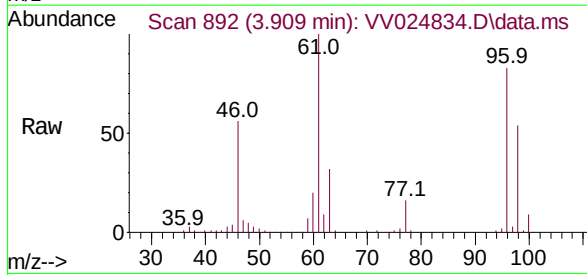


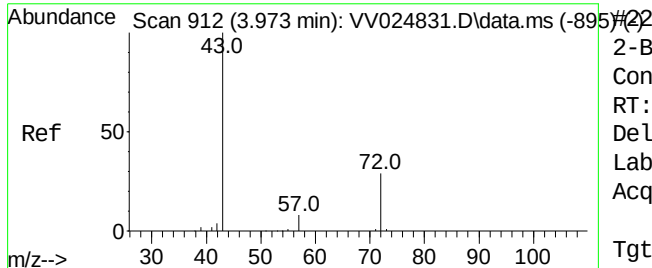
Abundance Scan 892 (3.908 min): VV024831.D\data.ms (-877) #20



cis-1,2-Dichloroethene
Concen: 50.428 ug/L
RT: 3.909 min Scan# 892
Delta R.T. 0.000 min
Lab File: VV024834.D
Acq: 28 Feb 2022 14:39

Tgt Ion:	96	Resp:	127568
Ion	Ratio	Lower	Upper
96	100		
61	120.1	86.1	159.9
68	0.0	0.0	0.0





2-Butanone

Concen: 99.540 ug/L

RT: 3.970 min Scan#

Delta R.T. -0.003 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Instrument :

MSVOA_V

ClientSampleId :

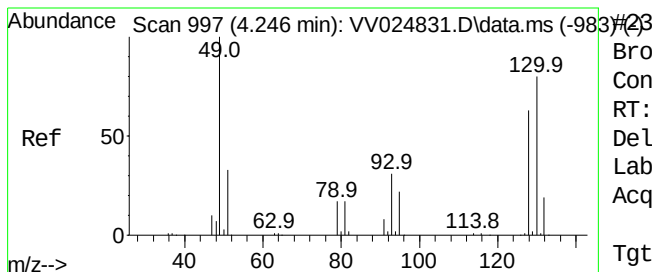
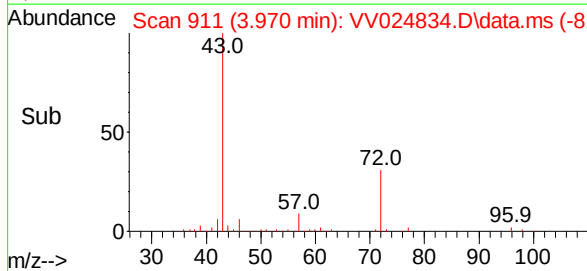
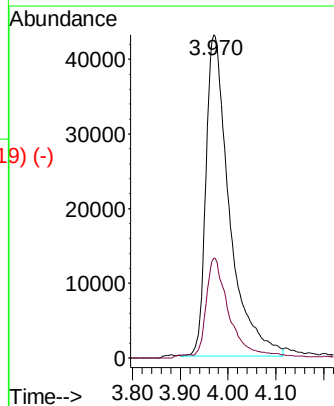
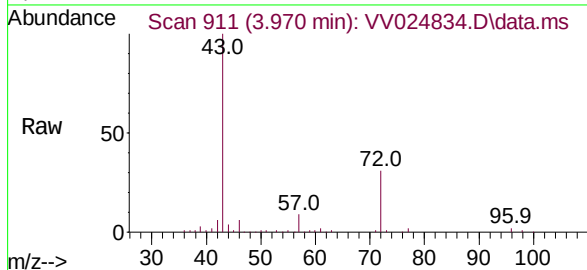
VICV212

Tgt Ion: 43 Resp: 147237

Ion Ratio Lower Upper

43 100

72 27.4 13.9 41.6



Bromochloromethane

Concen: 49.535 ug/L

RT: 4.246 min Scan# 997

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Tgt Ion: 128 Resp: 62669

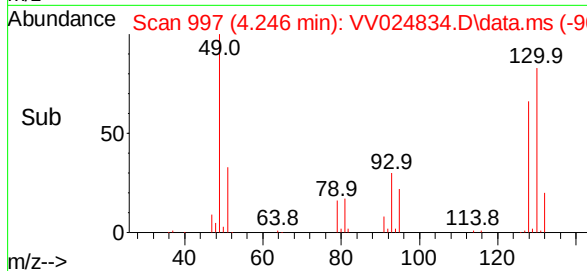
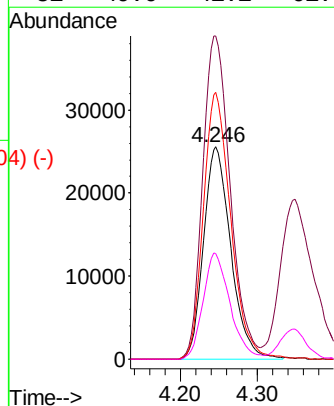
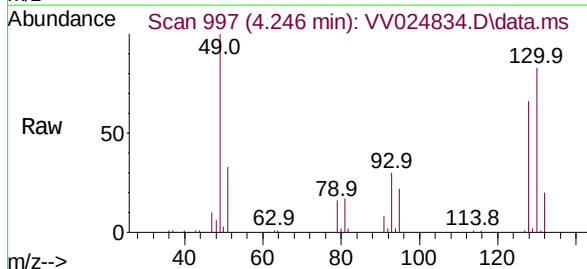
Ion Ratio Lower Upper

128 100

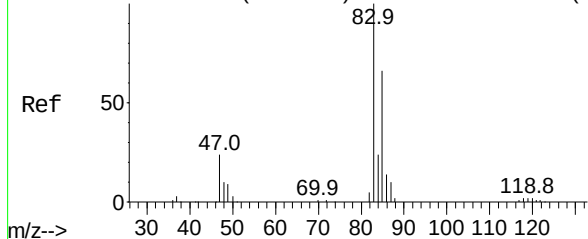
49 151.8 110.9 205.9

130 125.5 88.5 164.3

51 49.6 41.1 61.7



Abundance Scan 1037 (4.375 min): VV024831.D\data.ms (-1025)



Chloroform

Concen: 48.381 ug/L

RT: 4.372 min Scan# 1037

Delta R.T. -0.003 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Instrument :

MSVOA_V

ClientSampleId :

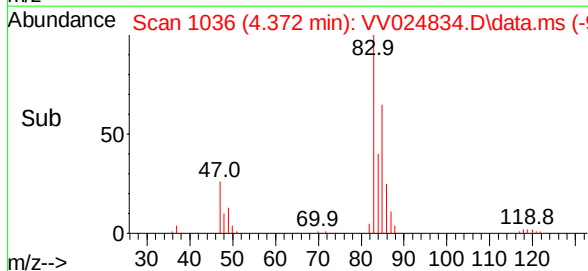
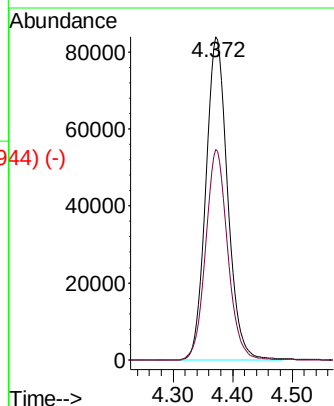
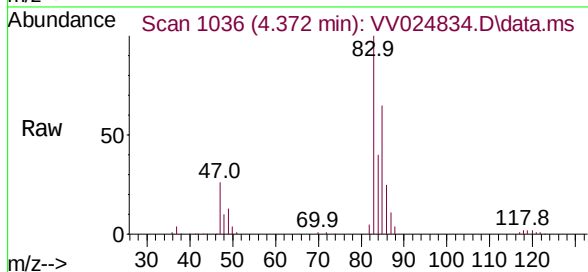
VICV212

Tgt Ion: 83 Resp: 211768

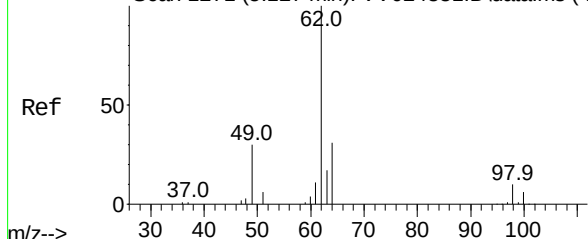
Ion Ratio Lower Upper

83 100

85 65.2 46.0 85.4



Abundance Scan 1271 (5.127 min): VV024831.D\data.ms (-12547)



1,2-Dichloroethane

Concen: 48.608 ug/L

RT: 5.127 min Scan# 1271

Delta R.T. 0.000 min

Lab File: VV024834.D

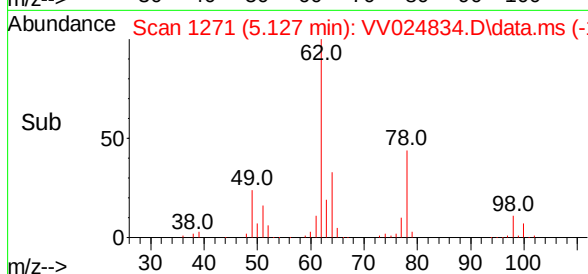
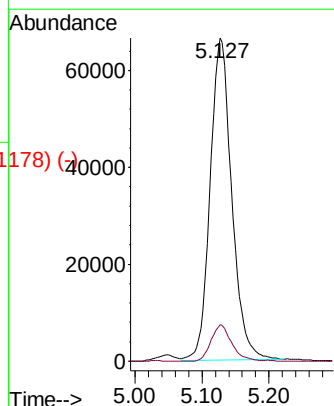
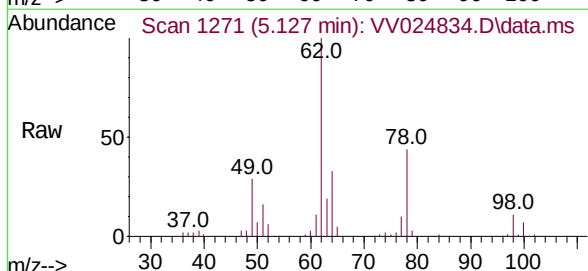
Acq: 28 Feb 2022 14:39

Tgt Ion: 62 Resp: 148474

Ion Ratio Lower Upper

62 100

98 11.3 8.2 12.4



Abundance Scan 1131 (4.677 min): VV024831.D\data.ms (-1129-)

#29-

Cyclohexane

Concen: 51.175 ug/L

RT: 4.677 min Scan#

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Instrument :

MSVOA_V

ClientSampleId :

VICV212

Tgt Ion: 56 Resp: 189242

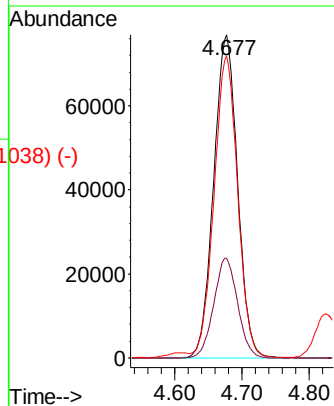
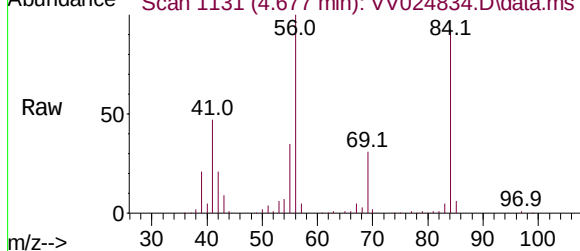
Ion Ratio Lower Upper

56 100

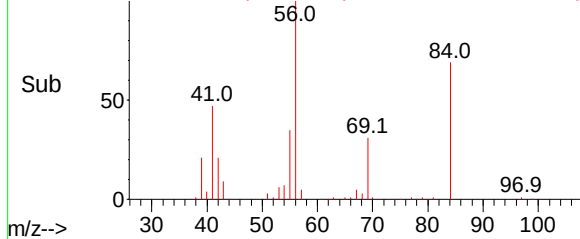
69 30.9 25.0 37.6

84 92.3 73.4 110.2

Abundance Scan 1131 (4.677 min): VV024834.D\data.ms



Abundance Scan 1131 (4.677 min): VV024834.D\data.ms (-1038-)



Abundance Scan 1109 (4.606 min): VV024831.D\data.ms (-1099-)

#99-

1,1,1-Trichloroethane

Concen: 49.481 ug/L

RT: 4.606 min Scan# 1109

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Tgt Ion: 97 Resp: 184197

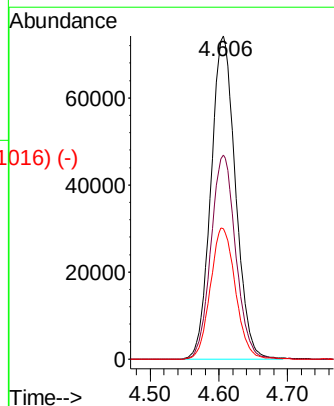
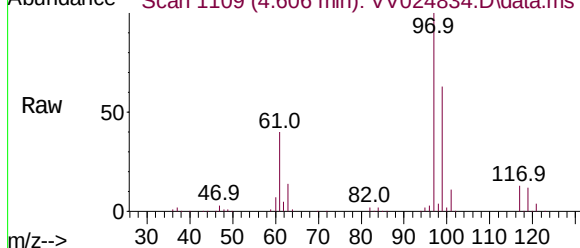
Ion Ratio Lower Upper

97 100

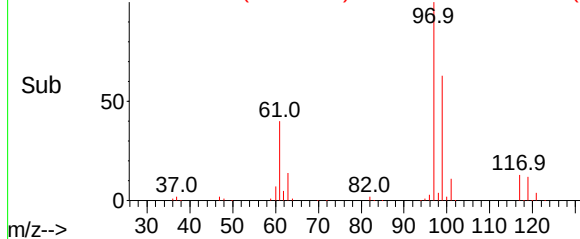
99 63.9 51.5 77.3

61 41.4 33.8 50.8

Abundance Scan 1109 (4.606 min): VV024834.D\data.ms



Abundance Scan 1109 (4.606 min): VV024834.D\data.ms (-1016-)



Abundance Scan 1178 (4.828 min): VV024831.D\data.ms (-11691-)

Carbon tetrachloride

Concen: 49.625 ug/L

RT: 4.825 min Scan#

Delta R.T. -0.003 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Instrument :

MSVOA_V

ClientSampleId :

VICV212

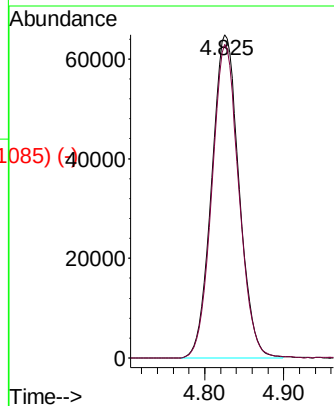
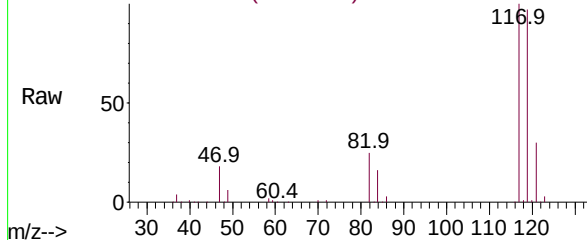
Tgt Ion:117 Resp: 157067

Ion Ratio Lower Upper

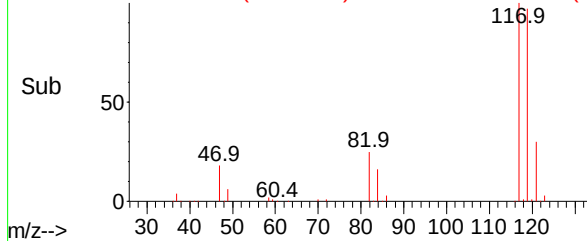
117 100

119 95.6 75.8 113.8

Abundance Scan 1177 (4.825 min): VV024834.D\data.ms



Abundance Scan 1177 (4.825 min): VV024834.D\data.ms (-1085) (-)



Abundance Scan 1262 (5.098 min): VV024831.D\data.ms (-12393-)

Benzene

Concen: 50.427 ug/L

RT: 5.095 min Scan# 1261

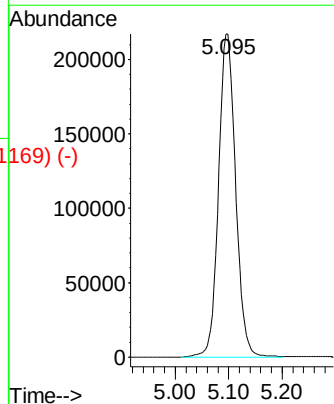
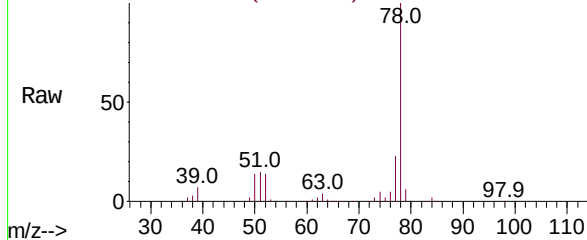
Delta R.T. -0.003 min

Lab File: VV024834.D

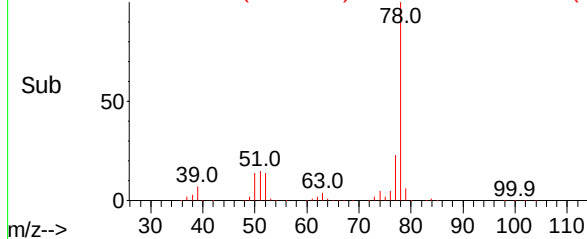
Acq: 28 Feb 2022 14:39

Tgt Ion: 78 Resp: 481120

Abundance Scan 1261 (5.095 min): VV024834.D\data.ms



Abundance Scan 1261 (5.095 min): VV024834.D\data.ms (-1169) (-)



Abundance Scan 1515 (5.912 min): VV024831.D\data.ms (-15024)

Trichloroethene

Concen: 49.408 ug/L

RT: 5.912 min Scan# 1515

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Instrument :

MSVOA_V

ClientSampleId :

VICV212

Tgt Ion: 95 Resp: 129225

Ion Ratio Lower Upper

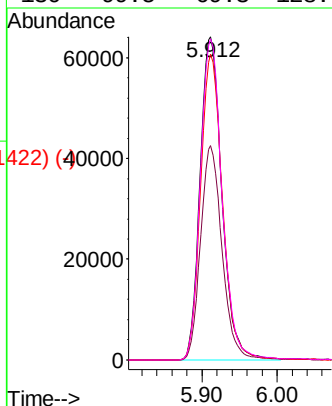
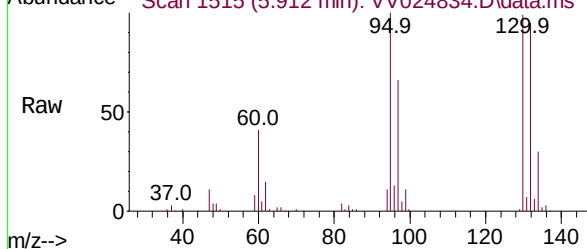
95 100

97 66.3 45.3 84.1

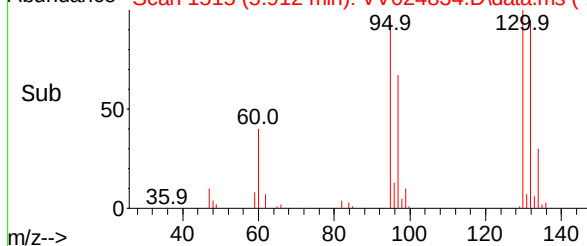
132 94.7 65.0 120.6

130 99.5 69.3 128.7

Abundance Scan 1515 (5.912 min): VV024834.D\data.ms



Abundance Scan 1515 (5.912 min): VV024834.D\data.ms (-1422) (4)



Abundance Scan 1583 (6.130 min): VV024831.D\data.ms (-15795)

Methylcyclohexane

Concen: 52.161 ug/L

RT: 6.127 min Scan# 1582

Delta R.T. -0.003 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Tgt Ion: 83 Resp: 206986

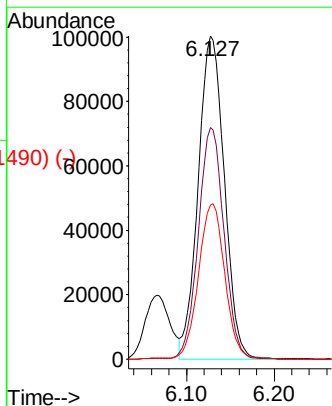
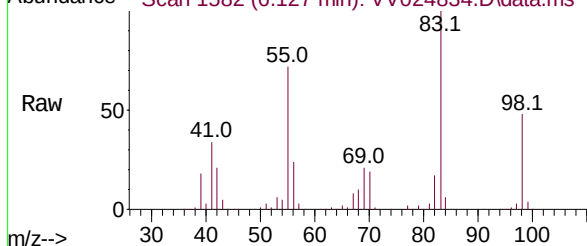
Ion Ratio Lower Upper

83 100

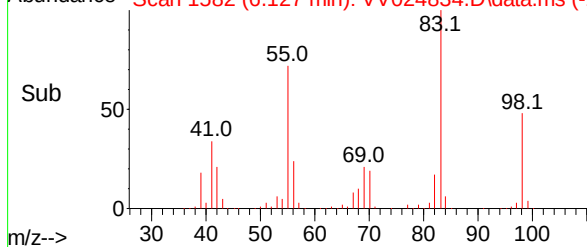
55 70.0 57.7 86.5

98 48.4 38.9 58.3

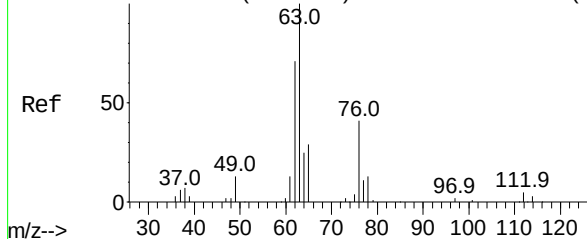
Abundance Scan 1582 (6.127 min): VV024834.D\data.ms



Abundance Scan 1582 (6.127 min): VV024834.D\data.ms (-1490) (2)



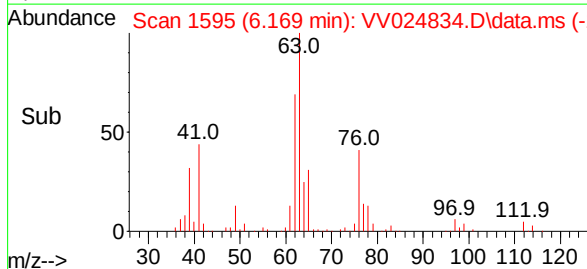
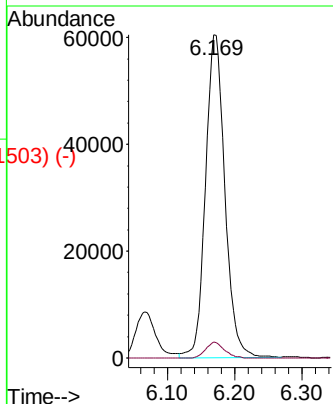
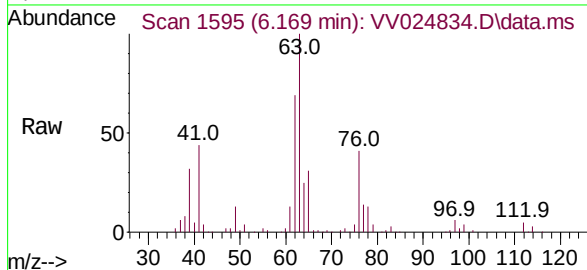
Abundance Scan 1596 (6.172 min): VV024831.D\data.ms (-1503) (-)



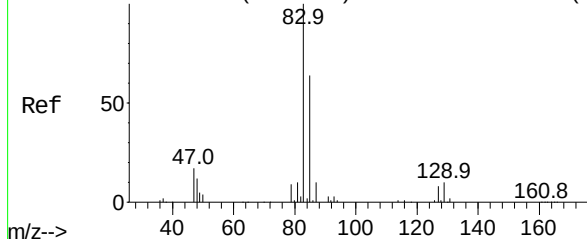
1,2-Dichloropropane
Concen: 50.728 ug/L
RT: 6.169 min Scan# 1595
Delta R.T. -0.003 min
Lab File: VV024834.D
Acq: 28 Feb 2022 14:39

Instrument :
MSVOA_V
ClientSampleId :
VICV212

Tgt Ion: 63 Resp: 121450
Ion Ratio Lower Upper
63 100
112 4.7 3.6 5.4

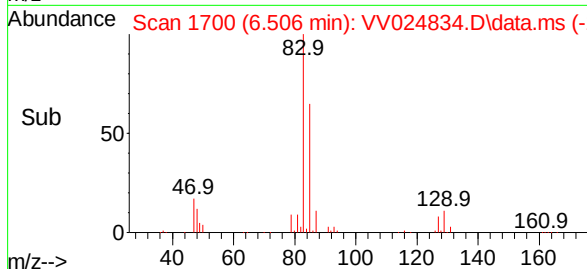
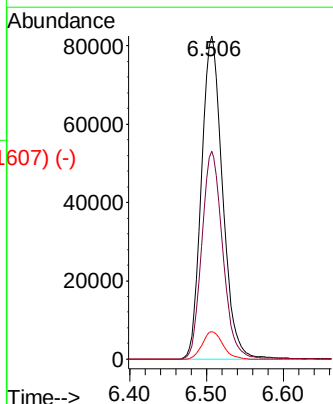
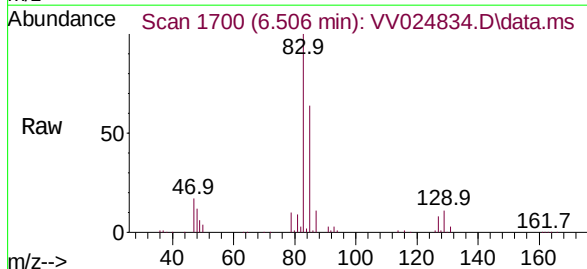


Abundance Scan 1700 (6.506 min): VV024831.D\data.ms (-1607) (-)



Bromodichloromethane
Concen: 50.019 ug/L
RT: 6.506 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VV024834.D
Acq: 28 Feb 2022 14:39

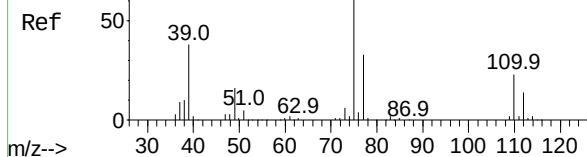
Tgt Ion: 83 Resp: 156924
Ion Ratio Lower Upper
83 100
85 64.4 44.5 82.7
127 8.5 6.5 9.7



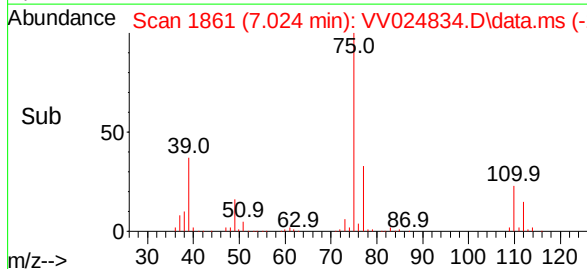
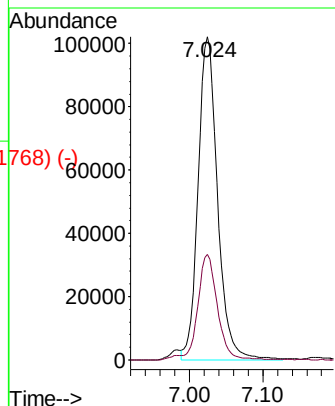
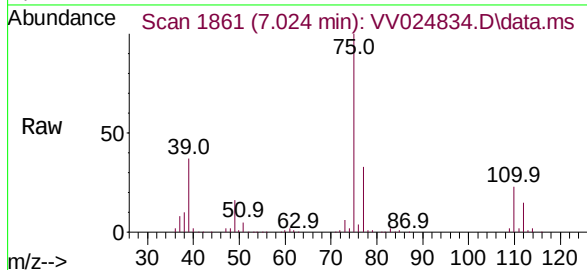
Abundance Scan 1861 (7.024 min): VV024831.D\data.ms (-18409-)

cis-1,3-Dichloropropene
Concen: 51.828 ug/L
RT: 7.024 min Scan# 1861
Delta R.T. 0.000 min
Lab File: VV024834.D
Acq: 28 Feb 2022 14:39

Instrument :
MSVOA_V
ClientSampleId :
VICV212



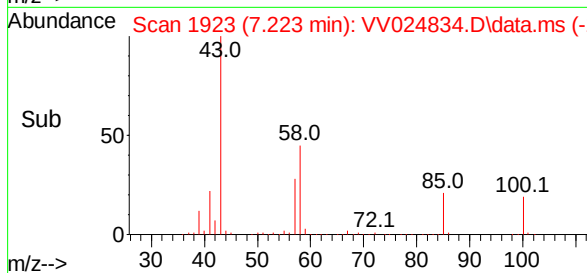
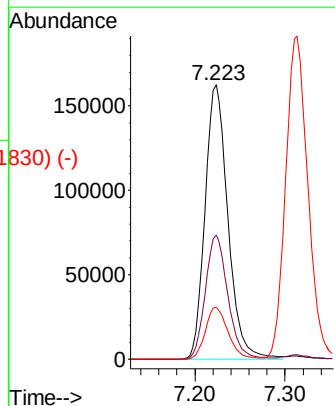
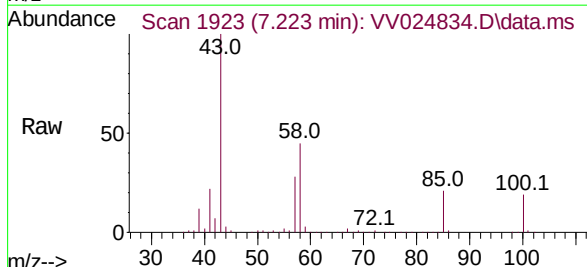
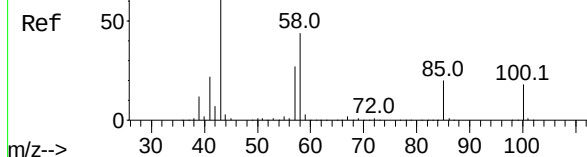
Tgt Ion: 75 Resp: 186752
Ion Ratio Lower Upper
75 100
77 32.6 22.9 42.5



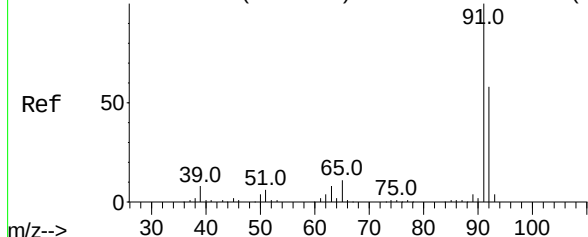
Abundance Scan 1923 (7.223 min): VV024831.D\data.ms (-19140-)

4-Methyl-2-pentanone
Concen: 100.372 ug/L
RT: 7.223 min Scan# 1923
Delta R.T. 0.000 min
Lab File: VV024834.D
Acq: 28 Feb 2022 14:39

Tgt Ion: 43 Resp: 286501
Ion Ratio Lower Upper
43 100
58 44.5 34.8 52.2
100 18.7 14.2 21.2



Abundance Scan 1973 (7.384 min): VV024831.D\data.ms (-1964)



Toluene

Concen: 51.290 ug/L

RT: 7.384 min Scan# 1973

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Instrument :

MSVOA_V

ClientSampleId :

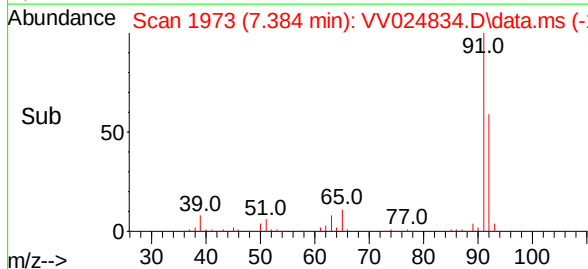
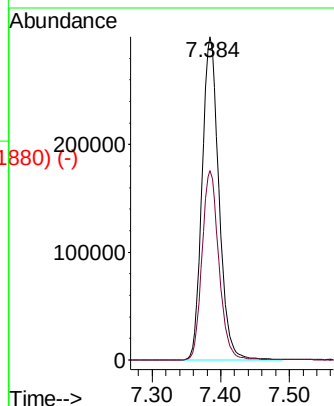
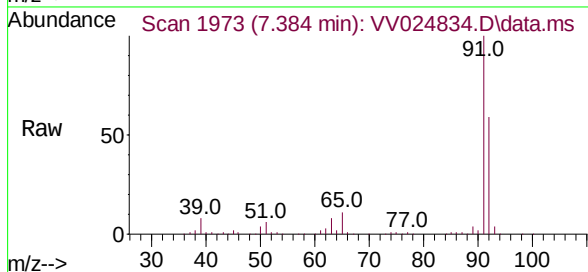
VICV212

Tgt Ion: 91 Resp: 510629

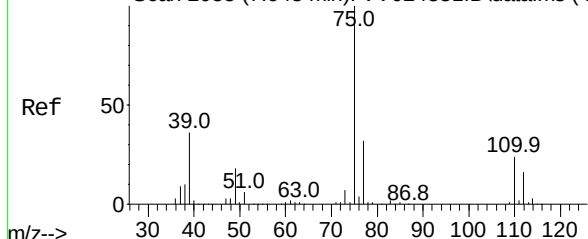
Ion Ratio Lower Upper

91 100

92 58.7 40.8 75.8



Abundance Scan 2055 (7.648 min): VV024831.D\data.ms (-2034)



trans-1,3-Dichloropropene

Concen: 53.432 ug/L

RT: 7.648 min Scan# 2055

Delta R.T. 0.000 min

Lab File: VV024834.D

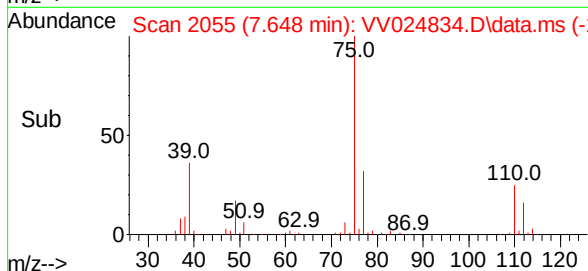
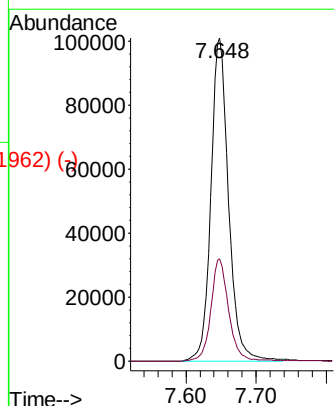
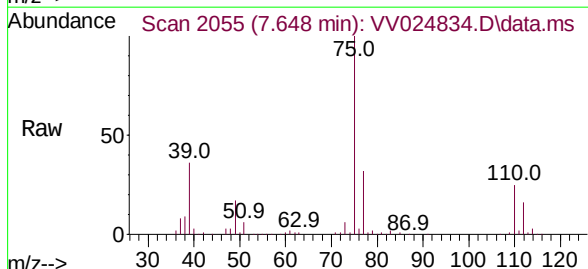
Acq: 28 Feb 2022 14:39

Tgt Ion: 75 Resp: 176882

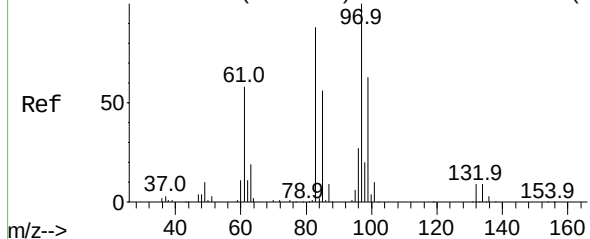
Ion Ratio Lower Upper

75 100

77 31.8 22.5 41.9



Abundance Scan 2113 (7.834 min): VV024831.D\data.ms (-21025)



1,1,2-Trichloroethane

Concen: 49.827 ug/L

RT: 7.834 min Scan# 2113

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Instrument :

MSVOA_V

ClientSampleId :

VICV212

Tgt Ion: 97 Resp: 115907

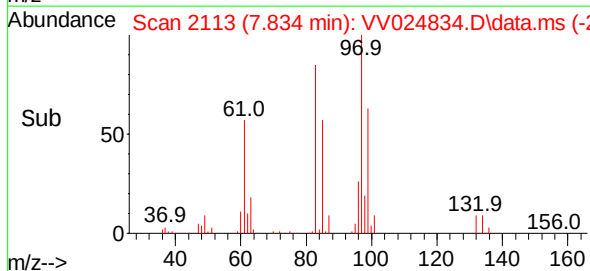
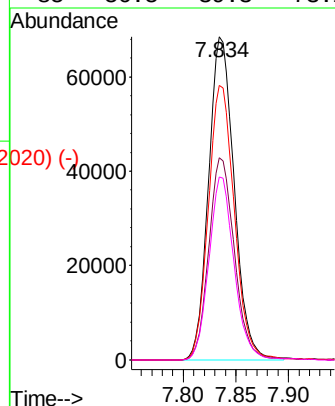
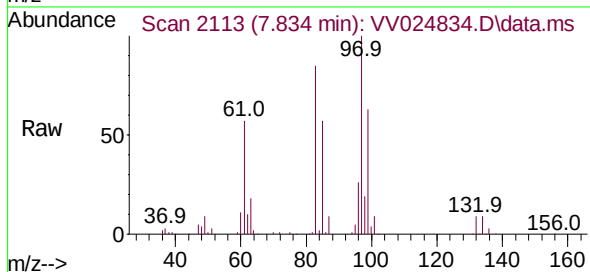
Ion Ratio Lower Upper

97 100

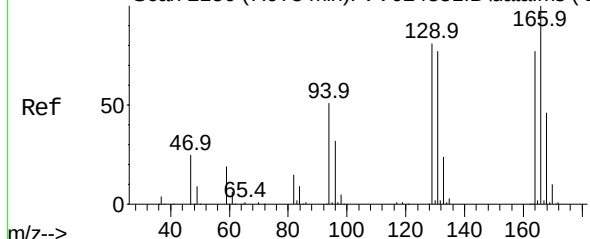
99 62.6 43.9 81.5

83 85.0 61.7 114.5

85 56.5 39.3 73.1



Abundance Scan 2156 (7.973 min): VV024831.D\data.ms (-21446)



Tetrachloroethene

Concen: 51.731 ug/L

RT: 7.973 min Scan# 2156

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Tgt Ion: 164 Resp: 87382

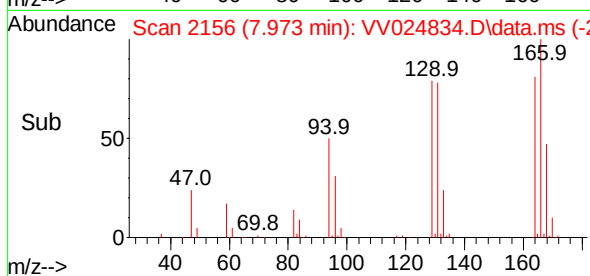
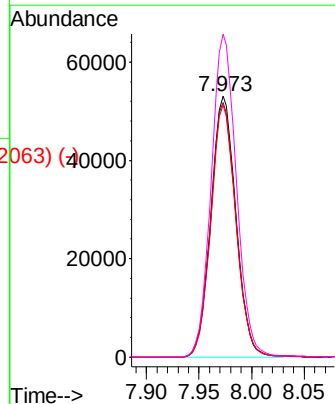
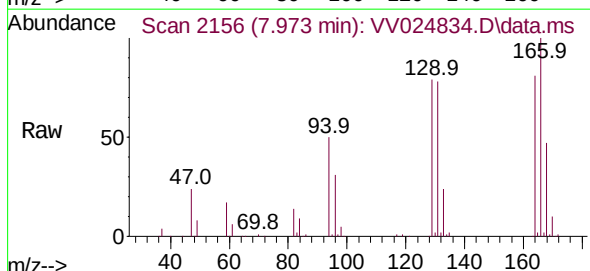
Ion Ratio Lower Upper

164 100

129 97.5 74.1 137.7

131 96.5 70.1 130.1

166 123.7 91.1 169.1



Abundance Scan 2207 (8.137 min): VV024831.D\data.ms (-2197) (-)

2-Hexanone

Concen: 97.571 ug/L

RT: 8.137 min Scan# 2207

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Instrument :

MSVOA_V

ClientSampleId :

VICV212

Tgt Ion: 43 Resp: 219190

Ion Ratio Lower Upper

43 100

58 62.8 48.6 72.8

57 21.5 16.5 24.7

100 14.6 11.4 17.0

Abundance Scan 2207 (8.137 min): VV024834.D\data.ms

Ref

50

43.0

58.0

71.0

85.0

100.0

m/z-->

30 40 50 60 70 80 90 100 110

Abundance Scan 2207 (8.137 min): VV024834.D\data.ms (-2114) (-)

Ref

50

43.0

58.0

71.0

86.0

100.1

m/z-->

30 40 50 60 70 80 90 100 110

Abundance

8.137

100000

50000

0

8.10 8.15 8.20

Time-->

Abundance Scan 2240 (8.243 min): VV024831.D\data.ms (-2249) (-)

Dibromochloromethane

Concen: 52.622 ug/L

RT: 8.243 min Scan# 2240

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Tgt Ion:129 Resp: 118293

Ion Ratio Lower Upper

129 100

127 78.8 54.2 100.6

Abundance Scan 2240 (8.243 min): VV024834.D\data.ms

Ref

50

48.0

80.9

128.9

159.8

207.9

m/z-->

40 60 80 100 120 140 160 180 200

Abundance

8.243

60000

40000

20000

0

8.20 8.25 8.30

Time-->

Abundance Scan 2240 (8.243 min): VV024834.D\data.ms (-2147) (-)

Ref

50

48.0

80.9

128.8

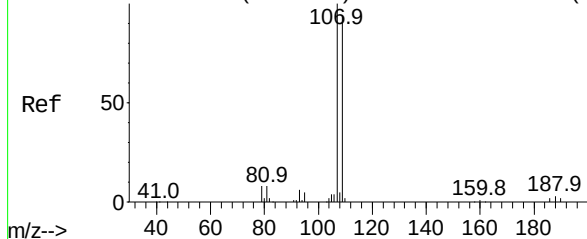
172.8

207.9

m/z-->

40 60 80 100 120 140 160 180 200

Abundance Scan 2273 (8.349 min): VV024831.D\data.ms (-2451-)



1,2-Dibromoethane

Concen: 51.550 ug/L

RT: 8.349 min Scan# 2273

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Instrument :

MSVOA_V

ClientSampleId :

VICV212

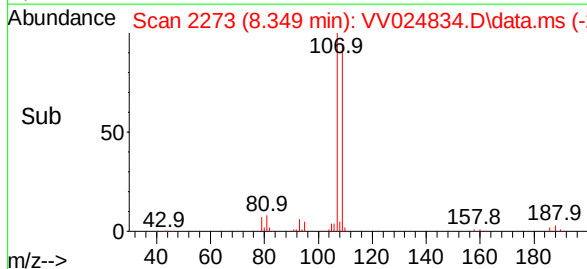
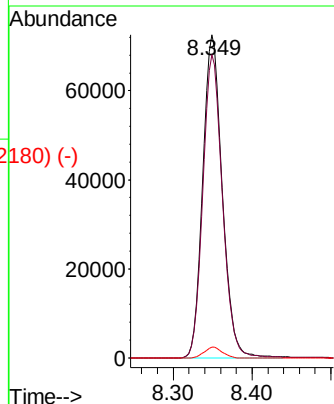
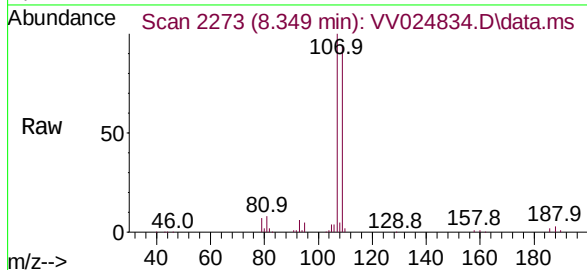
Tgt Ion:107 Resp: 123668

Ion Ratio Lower Upper

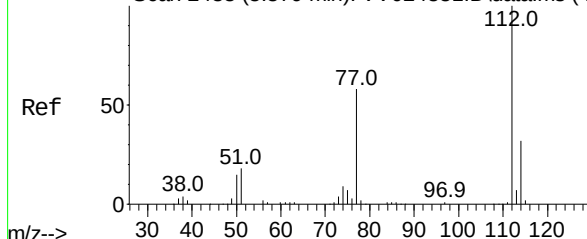
107 100

109 94.0 65.6 121.8

188 3.3 2.4 3.6



Abundance Scan 2438 (8.879 min): VV024831.D\data.ms (-2451-)



Chlorobenzene

Concen: 50.224 ug/L

RT: 8.879 min Scan# 2438

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

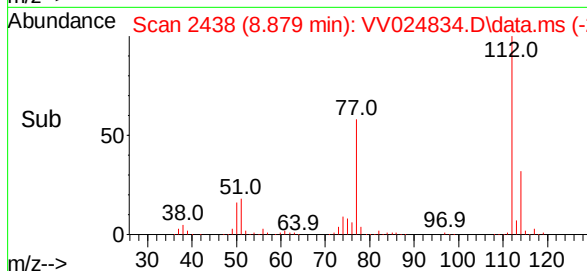
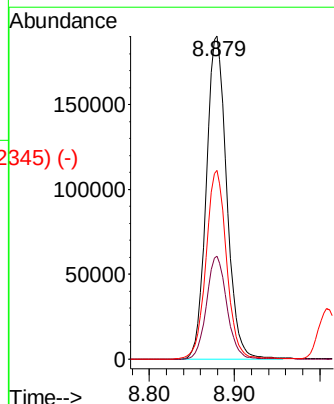
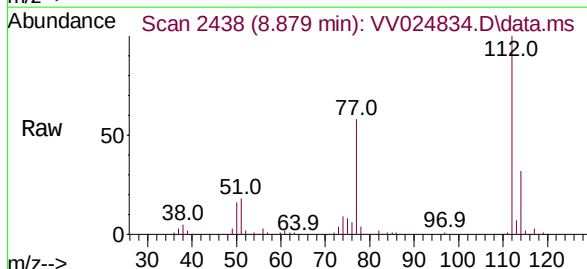
Tgt Ion:112 Resp: 315429

Ion Ratio Lower Upper

112 100

114 31.8 22.3 41.5

77 58.4 46.7 70.1



Abundance Scan 2479 (9.011 min): VV024831.D\data.ms (-24652-)

Ethylbenzene

Concen: 52.407 ug/L

RT: 9.008 min Scan# 2479

Delta R.T. -0.003 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Instrument :

MSVOA_V

ClientSampleId :

VICV212

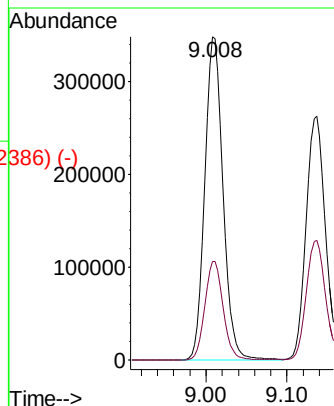
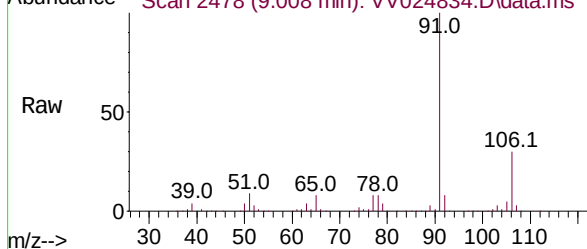
Tgt Ion: 91 Resp: 550295

Ion Ratio Lower Upper

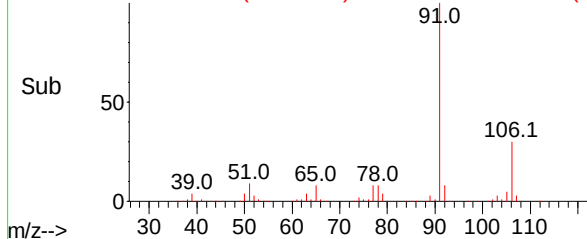
91 100

106 30.5 21.6 40.2

Abundance Scan 2478 (9.008 min): VV024834.D\data.ms



Abundance Scan 2478 (9.008 min): VV024834.D\data.ms (-2386-)



Abundance Scan 2518 (9.136 min): VV024831.D\data.ms (-25053-)

m,p-Xylene

Concen: 52.747 ug/L

RT: 9.137 min Scan# 2518

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

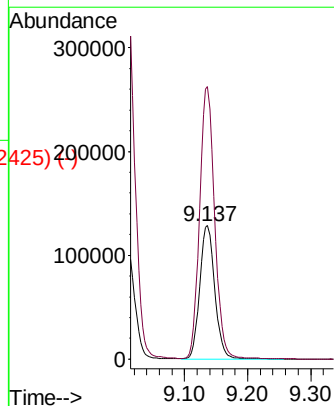
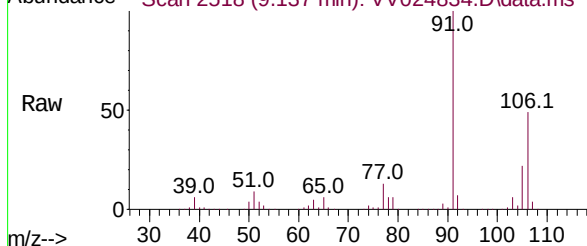
Tgt Ion:106 Resp: 212824

Ion Ratio Lower Upper

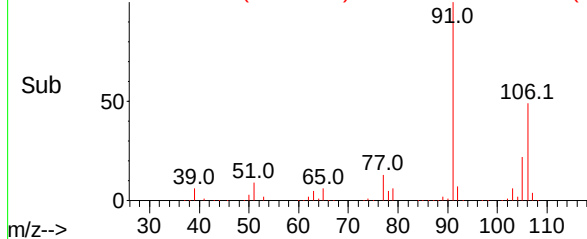
106 100

91 203.9 142.2 264.2

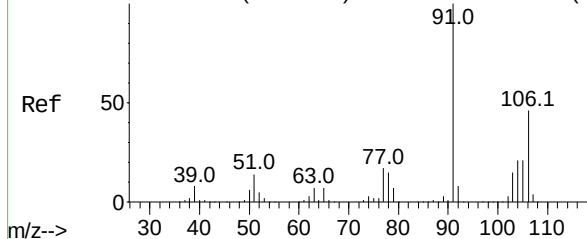
Abundance Scan 2518 (9.137 min): VV024834.D\data.ms



Abundance Scan 2518 (9.137 min): VV024834.D\data.ms (-2425-)



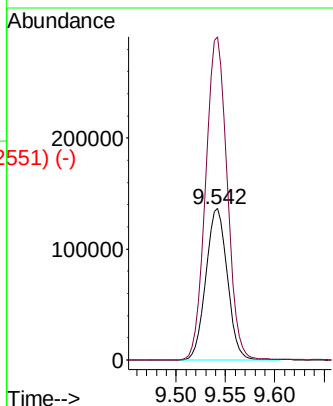
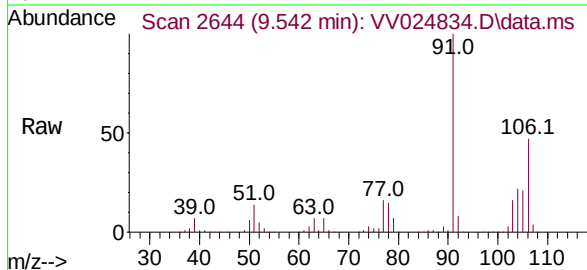
Abundance Scan 2644 (9.542 min): VV024831.D\data.ms (-26351-)



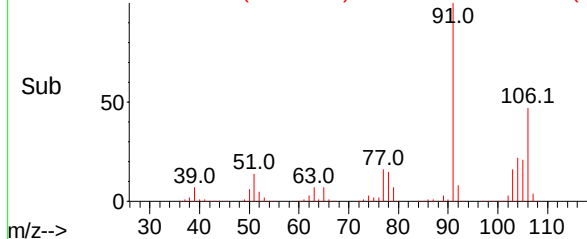
o-Xylene
Concen: 52.901 ug/L
RT: 9.542 min Scan# 2644
Delta R.T. 0.000 min
Lab File: VV024834.D
Acq: 28 Feb 2022 14:39

Instrument : MSVOA_V
ClientSampleId : VICV212

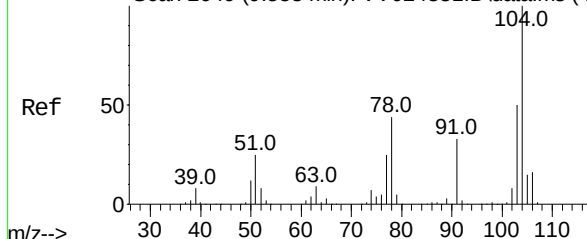
Tgt Ion:106 Resp: 206241
Ion Ratio Lower Upper
106 100
91 213.2 151.6 281.6



Abundance Scan 2644 (9.542 min): VV024834.D\data.ms (-2551-)

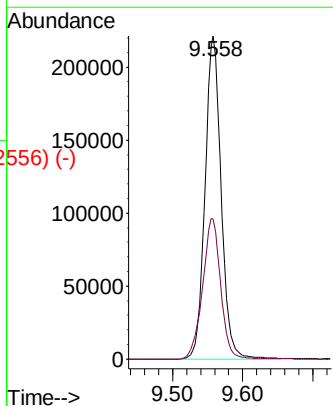
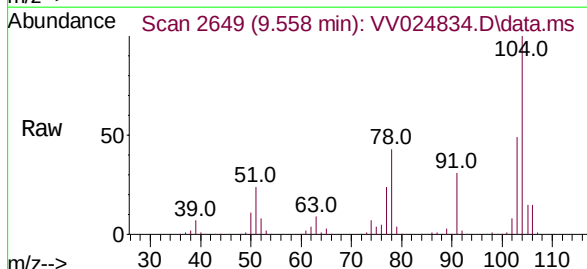


Abundance Scan 2649 (9.558 min): VV024831.D\data.ms (-26355-)

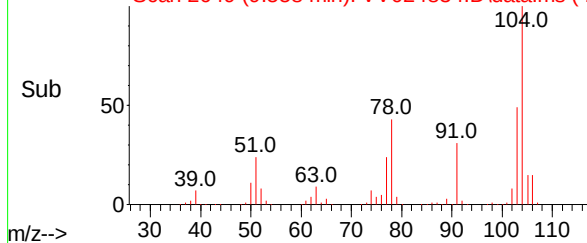


Styrene
Concen: 53.243 ug/L
RT: 9.558 min Scan# 2649
Delta R.T. 0.000 min
Lab File: VV024834.D
Acq: 28 Feb 2022 14:39

Tgt Ion:104 Resp: 352200
Ion Ratio Lower Upper
104 100
78 43.4 30.9 57.3



Abundance Scan 2649 (9.558 min): VV024834.D\data.ms (-2556-)



Abundance Scan 2861 (10.239 min): VV024831.D\data.ms (-2857) (-)

1,1,2,2-Tetrachloroethane

Concen: 50.882 ug/L

RT: 10.239 min Scan# 2861

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Instrument :

MSVOA_V

ClientSampleId :

VICV212

Tgt Ion: 83 Resp: 165557

Ion Ratio Lower Upper

83 100

85 64.4 44.2 82.2

131 9.1 7.0 10.4

Abundance Scan 2861 (10.239 min): VV024834.D\data.ms

Ref

50

36.9 59.9 82.9 111.8 130.8 167.9

m/z-->

Abundance Scan 2861 (10.239 min): VV024834.D\data.ms

Raw

50

36.9 61.0 82.9 109.9 132.9 167.9

m/z-->

Abundance Scan 2861 (10.239 min): VV024834.D\data.ms (-2768) (-)

Sub

50

36.9 59.9 82.9 109.9 130.9 167.9

m/z-->

Abundance

100000

80000

60000

40000

20000

0

10.20 10.239 10.30

Time-->

Abundance Scan 2702 (9.728 min): VV024831.D\data.ms (-2699) (-)

Bromoform

Concen: 54.190 ug/L

RT: 9.728 min Scan# 2702

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Tgt Ion:173 Resp: 69325

Ion Ratio Lower Upper

173 100

175 47.4 37.9 56.9

254 7.8 6.2 9.4

Abundance Scan 2702 (9.728 min): VV024834.D\data.ms

Ref

50

44.0 90.9 172.8 253.8

m/z-->

Abundance Scan 2702 (9.728 min): VV024834.D\data.ms

Raw

50

44.0 90.9 172.8 253.8

m/z-->

Abundance Scan 2702 (9.728 min): VV024834.D\data.ms (-2609) (-)

Sub

50

44.0 90.9 172.8 251.8

m/z-->

Abundance

40000

30000

20000

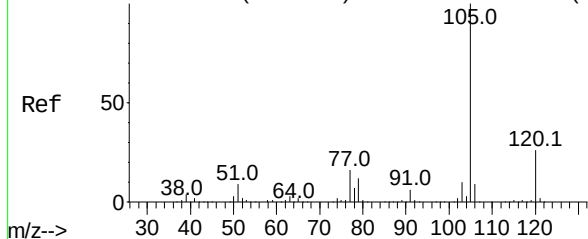
10000

0

9.70 9.728 9.80

Time-->

Abundance Scan 2764 (9.927 min): VV024831.D\data.ms (-2759) (-)



Isopropylbenzene

Concen: 52.796 ug/L

RT: 9.928 min Scan# 2764

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Instrument :

MSVOA_V

ClientSampleId :

VICV212

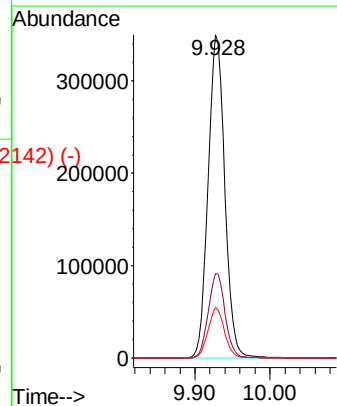
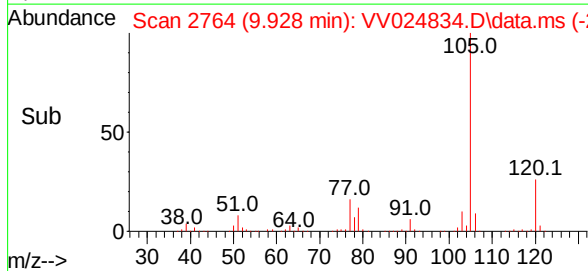
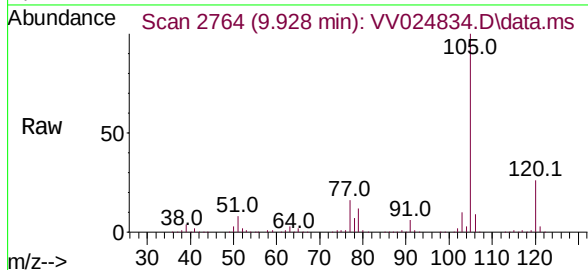
Tgt Ion:105 Resp: 538459

Ion Ratio Lower Upper

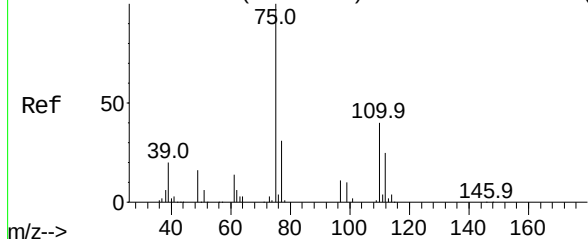
105 100

120 26.3 20.6 31.0

77 15.2 12.3 18.5



Abundance Scan 2870 (10.268 min): VV024831.D\data.ms (-2869) (-)



1,2,3-Trichloropropane

Concen: 49.970 ug/L

RT: 10.268 min Scan# 2870

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

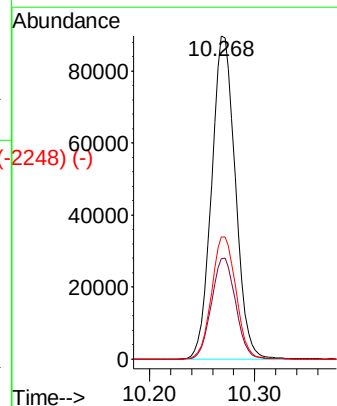
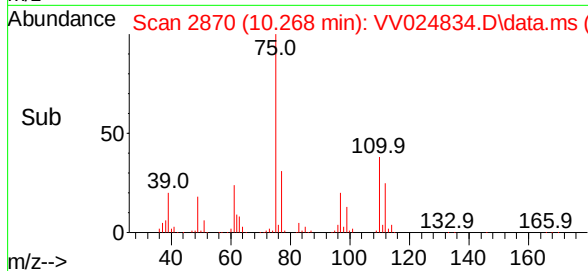
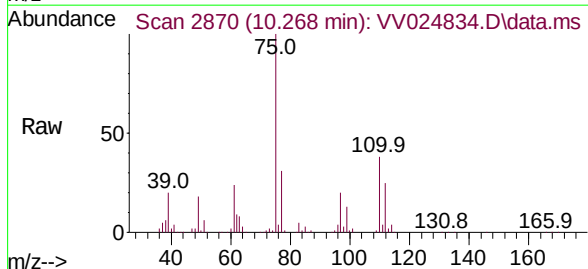
Tgt Ion: 75 Resp: 140416

Ion Ratio Lower Upper

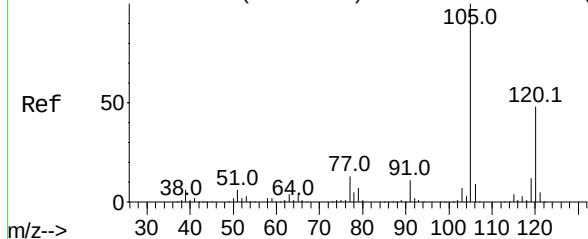
75 100

77 31.6 25.4 38.0

110 38.9 31.4 47.2



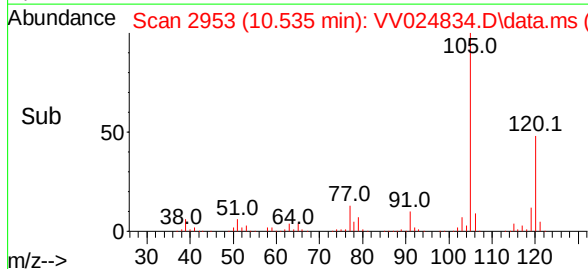
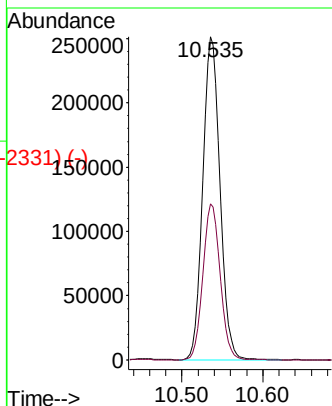
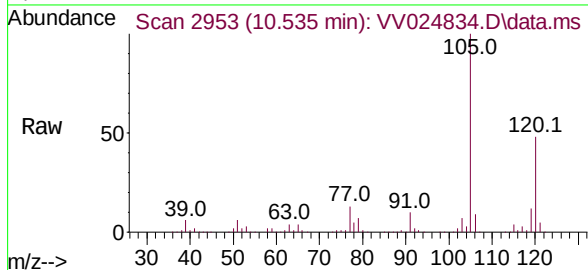
Abundance Scan 2953 (10.535 min): VV024831.D\data.ms (-2953) (-)



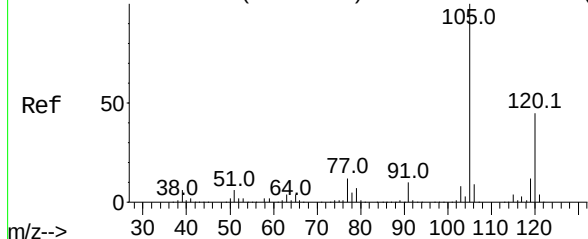
1,3,5-Trimethylbenzene
Concen: 54.696 ug/L
RT: 10.535 min Scan# 2953
Delta R.T. 0.000 min
Lab File: VV024834.D
Acq: 28 Feb 2022 14:39

Instrument :
MSVOA_V
ClientSampleId :
VICV212

Tgt Ion:105 Resp: 376369
Ion Ratio Lower Upper
105 100
120 48.4 38.6 58.0

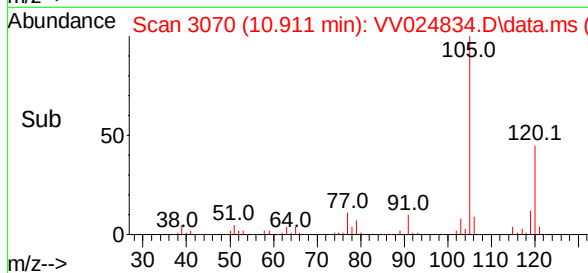
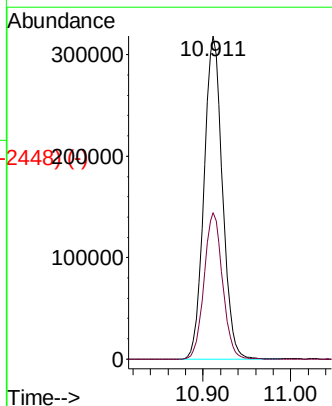
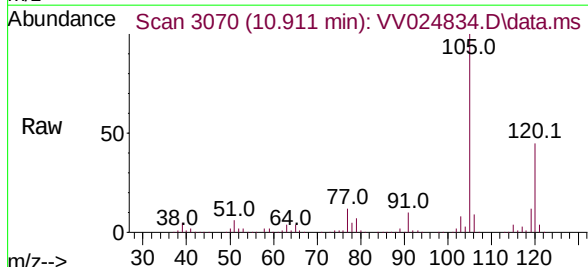


Abundance Scan 3070 (10.911 min): VV024831.D\data.ms (-3070) (-)



1,2,4-Trimethylbenzene
Concen: 55.059 ug/L
RT: 10.911 min Scan# 3070
Delta R.T. 0.000 min
Lab File: VV024834.D
Acq: 28 Feb 2022 14:39

Tgt Ion:105 Resp: 464365
Ion Ratio Lower Upper
105 100
120 45.3 36.1 54.1



Abundance Scan 3153 (11.178 min): VV024831.D\data.ms (-3164) (-)

1,3-Dichlorobenzene

Concen: 52.789 ug/L

RT: 11.178 min Scan# 3153

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Instrument :

MSVOA_V

ClientSampleId :

VICV212

Tgt Ion:146 Resp: 236250

Ion Ratio Lower Upper

146 100

111 42.2 29.7 55.1

148 63.8 43.9 81.5

Abundance Scan 3153 (11.178 min): VV024834.D\data.ms

Ref

50.0 75.0 111.0 146.0

94.8

m/z-->

Abundance Scan 3153 (11.178 min): VV024834.D\data.ms

Raw

50.0 75.0 111.0 146.0

93.9

m/z-->

Abundance Scan 3153 (11.178 min): VV024834.D\data.ms (-3060) (-)

Sub

50.0 75.0 111.0 146.0

93.9

m/z-->

Abundance

150000

11.178

100000

50000

0

Time-->

Abundance Scan 3181 (11.268 min): VV024831.D\data.ms (-3165) (-)

1,4-Dichlorobenzene

Concen: 52.035 ug/L

RT: 11.268 min Scan# 3181

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Tgt Ion:146 Resp: 238413

Ion Ratio Lower Upper

146 100

111 40.2 28.6 53.0

148 64.0 43.7 81.1

Abundance Scan 3181 (11.268 min): VV024834.D\data.ms

Ref

50.0 75.0 111.0 146.0

94.0

m/z-->

Abundance Scan 3181 (11.268 min): VV024834.D\data.ms

Raw

50.0 75.0 111.0 146.0

94.0

m/z-->

Abundance Scan 3181 (11.268 min): VV024834.D\data.ms (-3057) (-)

Sub

50.0 75.0 111.0 146.0

94.0

m/z-->

Abundance

150000

11.268

100000

50000

0

Time-->

Abundance Scan 3297 (11.641 min): VV024831.D\data.ms (-3297) (-)

1,2-Dichlorobenzene

Concen: 51.547 ug/L

RT: 11.638 min Scan# 3297

Delta R.T. -0.003 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Instrument :

MSVOA_V

ClientSampleId :

VICV212

Tgt Ion:146 Resp: 232173

Ion Ratio Lower Upper

146 100

111 43.2 34.9 52.3

148 63.4 51.4 77.2

Abundance Scan 3296 (11.638 min): VV024834.D\data.ms (-3296) (-)

Ref 50

50.0 75.0 93.9 111.0 146.0

m/z-->

Abundance Scan 3296 (11.638 min): VV024834.D\data.ms (-3296) (-)

Raw 50

50.0 75.0 93.8 111.0 146.0

m/z-->

Abundance Scan 3296 (11.638 min): VV024834.D\data.ms (-3296) (-)

Sub 50

50.0 75.0 93.8 111.0 145.9

m/z-->

Abundance

11.638

100000

50000

0

Time-->

Abundance Scan 3540 (12.423 min): VV024831.D\data.ms (-3540) (-)

1,2-Dibromo-3-chloropropane

Concen: 54.472 ug/L

RT: 12.426 min Scan# 3541

Delta R.T. 0.003 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39

Tgt Ion: 75 Resp: 34943

Ion Ratio Lower Upper

75 100

155 84.5 63.8 95.8

157 112.2 79.3 118.9

Abundance Scan 3541 (12.426 min): VV024834.D\data.ms (-3541) (-)

Ref 50

39.0 75.0 118.9 156.9 186.8

m/z-->

Abundance Scan 3541 (12.426 min): VV024834.D\data.ms (-3541) (-)

Raw 50

39.0 75.0 118.9 156.9 186.8

m/z-->

Abundance Scan 3541 (12.426 min): VV024834.D\data.ms (-3541) (-)

Sub 50

39.0 75.0 118.9 156.9 186.8

m/z-->

Abundance

12.426

20000

15000

10000

5000

0

Time-->

Abundance Scan 3608 (12.641 min): VV024831.D\data.ms (-3559) (-)

1,3,5-Trichlorobenzene

Concen: 54.493 ug/L

RT: 12.641 min Scan# 3608

Delta R.T. 0.000 min

Lab File: VV024834.D

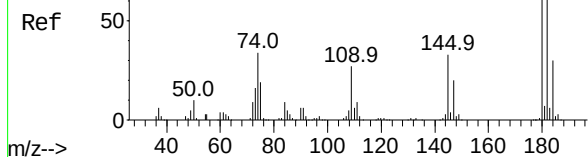
Acq: 28 Feb 2022 14:39

Instrument :

MSVOA_V

ClientSampleId :

VICV212



Tgt Ion:180 Resp: 164622

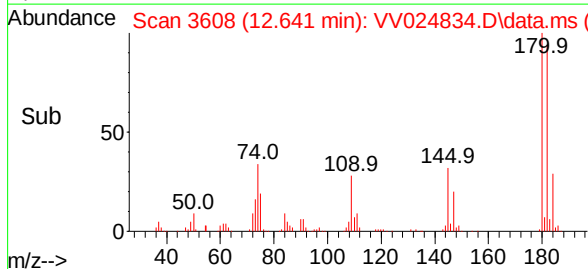
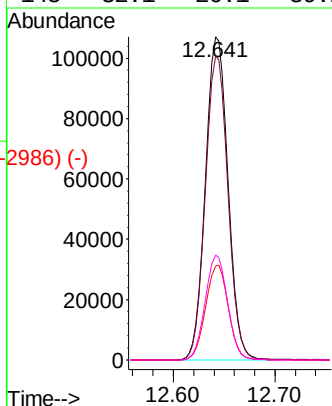
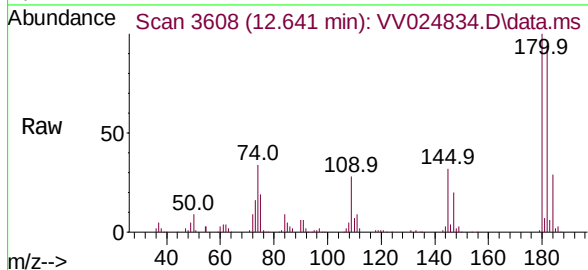
Ion Ratio Lower Upper

180 100

182 94.1 75.1 112.7

184 29.5 23.9 35.9

145 32.1 26.1 39.1



Abundance Scan 3800 (13.259 min): VV024831.D\data.ms (-3780) (-)

1,2,4-trichlorobenzene

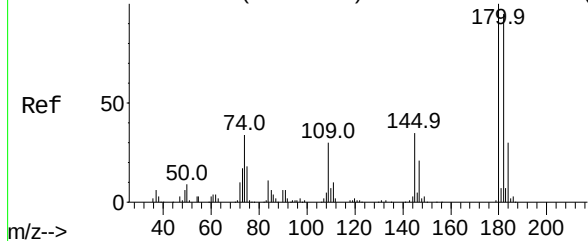
Concen: 57.000 ug/L

RT: 13.259 min Scan# 3800

Delta R.T. 0.000 min

Lab File: VV024834.D

Acq: 28 Feb 2022 14:39



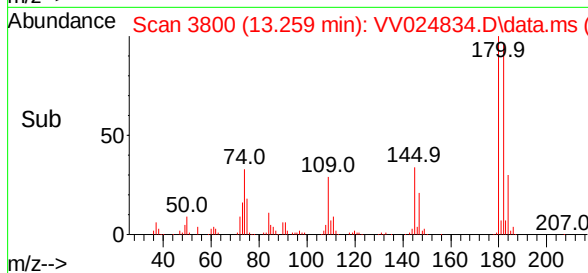
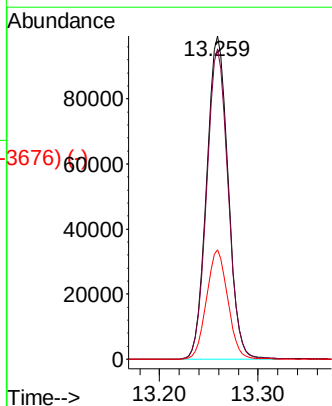
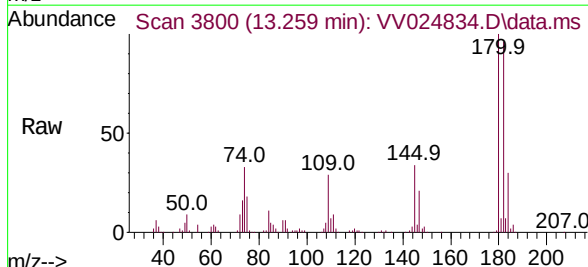
Tgt Ion:180 Resp: 150030

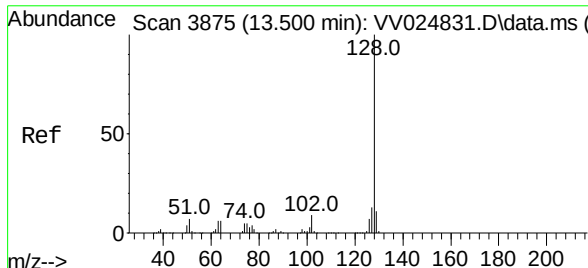
Ion Ratio Lower Upper

180 100

182 95.7 76.0 114.0

145 33.4 27.6 41.4

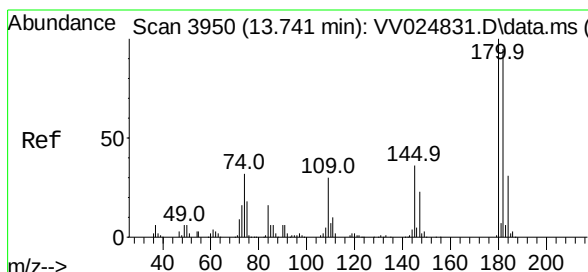
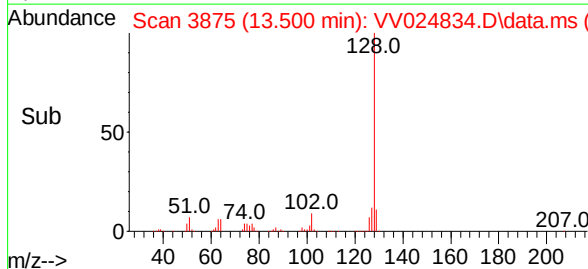
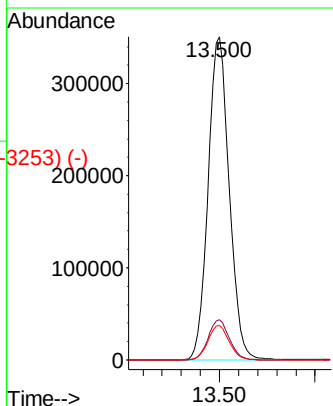
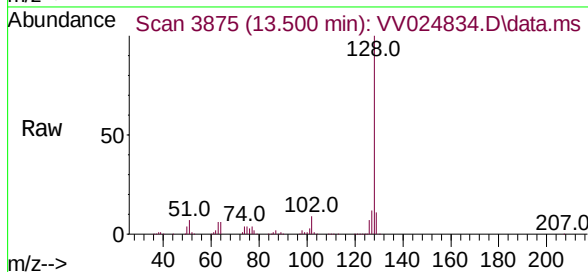




Naphthalene
 Concen: 62.861 ug/L
 RT: 13.500 min Scan# 3875
 Delta R.T. 0.000 min
 Lab File: VV024834.D
 Acq: 28 Feb 2022 14:39

Instrument :
 MSVOA_V
 ClientSampleId :
 VICV212

Tgt Ion:	128	Resp:	536079
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.4
129	10.7	8.6	13.0



1,2,3-Trichlorobenzene
 Concen: 57.266 ug/L
 RT: 13.741 min Scan# 3950
 Delta R.T. 0.000 min
 Lab File: VV024834.D
 Acq: 28 Feb 2022 14:39

Tgt Ion:	180	Resp:	148632
Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.9	113.9
145	35.5	28.7	43.1

