

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV112018\
 Data File : VV008673.D
 Acq On : 20 Nov 2018 14:56
 Operator : SY/MD
 Sample : J6002-01
 Misc : 5.0 mL/MSVOA_V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 X2E76

Quant Time: Nov 21 01:35:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM112018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Nov 21 01:28:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	288252	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	258883	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	116449	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	89875	44.20	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.40%
7) Chloroethane-d5	1.57	69	39655	35.70	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	71.40%
11) 1,1-Dichloroethene-d2	2.13	63	132821	39.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	79.14%
21) 2-Butanone-d5	3.94	46	144239	87.02	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	87.02%
24) Chloroform-d	4.40	84	181788	44.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.28%
26) 1,2-Dichloroethane-d4	5.08	65	120536	45.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.50%
32) Benzene-d6	5.10	84	388953	48.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.60%
36) 1,2-Dichloropropane-d6	6.12	67	120902	48.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.06%
41) Toluene-d8	7.36	98	347539	48.08	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.16%
43) trans-1,3-Dichloropropene-	7.67	79	50396	44.76	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.52%
47) 2-Hexanone-d5	8.14	63	106365	93.45	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	93.45%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	146074	42.54	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	85.08%
64) 1,2-Dichlorobenzene-d4	11.67	152	117414	46.19	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.38%

Target Compounds

					Qvalue
3) Chloromethane	1.25	50	42245	18.683 ug/L	98
5) Vinyl chloride	1.32	62	28925	13.176 ug/L	90
6) Bromomethane	1.53	94	5485	7.406 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	1453	0.891 ug/L #	17
12) 1,1-Dichloroethene	2.14	96	23280	15.907 ug/L #	46
13) Acetone	2.20	43	89823	54.770 ug/L	43
15) Methyl Acetate	2.46	43	35422	13.698 ug/L	95
16) Methylene chloride	2.53	84	49058	21.642 ug/L	96
23) Bromochloromethane	4.31	128	1134	1.015 ug/L	83
25) Chloroform	4.43	83	85633	21.127 ug/L	95
27) 1,2-Dichloroethane	5.18	62	63935	20.362 ug/L	99
30) 1,1,1-Trichloroethane	4.66	97	65684	20.533 ug/L	95
31) Carbon tetrachloride	4.66	117	8105	3.047 ug/L	98
33) Benzene	5.15	78	177317	21.305 ug/L	100
34) Trichloroethene	5.96	95	43693	19.809 ug/L	92
37) 1,2-Dichloropropane	6.22	63	46614	20.735 ug/L #	94
39) cis-1,3-Dichloropropene	7.07	75	47341	14.817 ug/L	95

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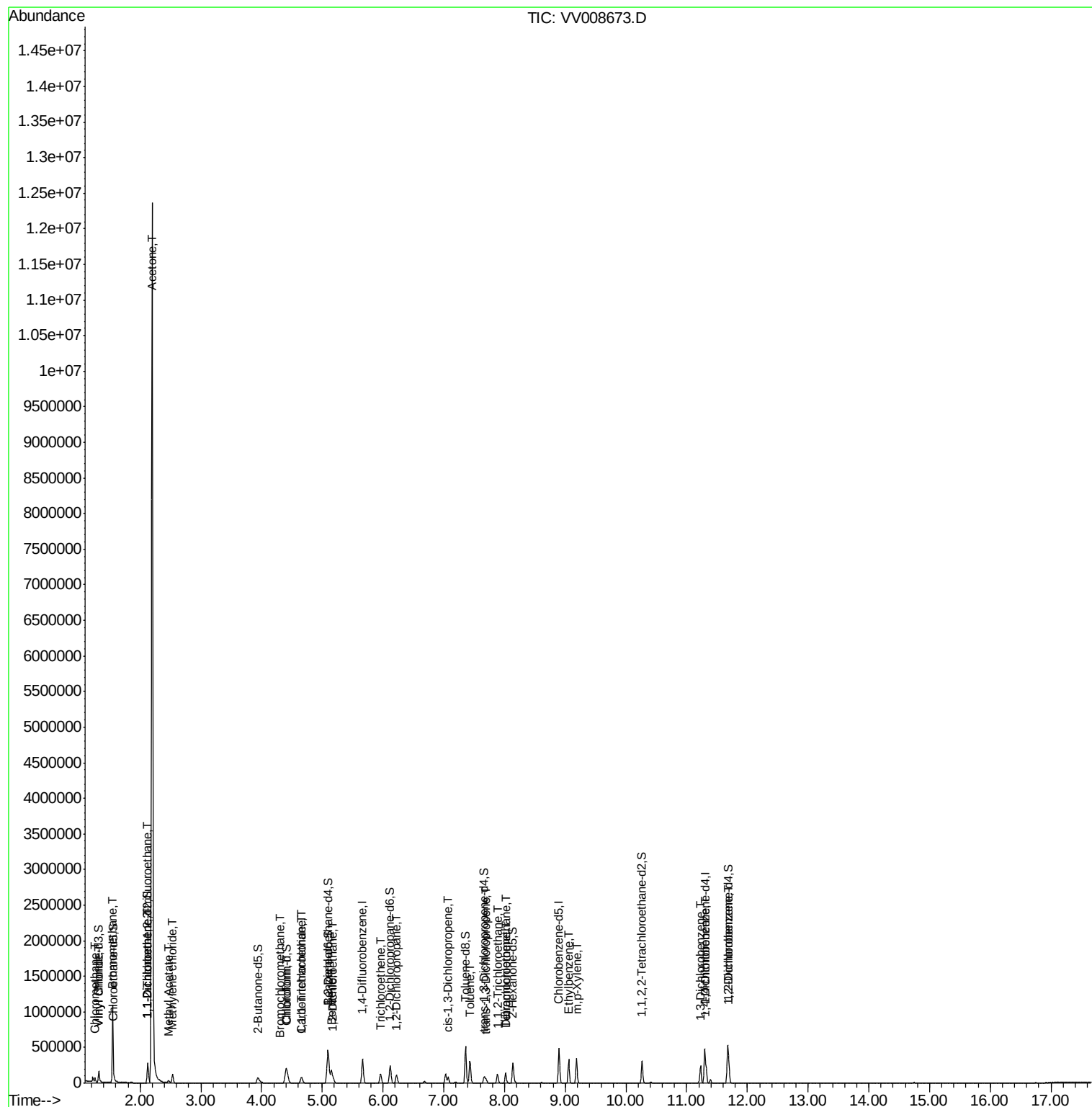
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	229595	26.526	ug/L	96
44) trans-1,3-Dichloropropene	7.69	75	37091	12.761	ug/L	95
45) 1,1,2-Trichloroethane	7.88	97	43307	21.110	ug/L	94
46) Tetrachloroethene	8.02	164	31829	19.979	ug/L	95
49) Dibromochloromethane	8.02	129	30206	14.821	ug/L #	8
52) Ethylbenzene	9.06	91	237102	24.967	ug/L	100
53) m,p-Xylene	9.19	106	90301	25.877	ug/L	91
62) 1,3-Dichlorobenzene	11.23	146	99114	25.401	ug/L	97
63) 1,4-Dichlorobenzene	11.32	146	77893	19.587	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	102388	25.422	ug/L	95

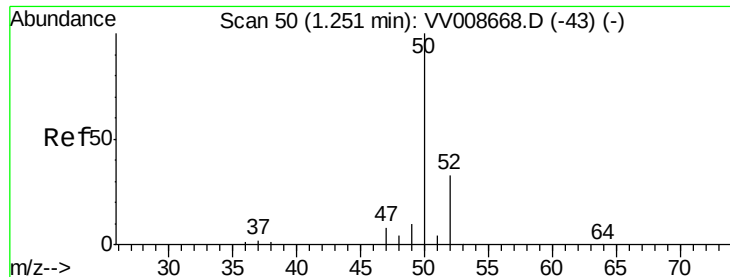
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 18.683 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV008673.D

Acq: 20 Nov 2018 14:56

Instrument :

MSVOA_V

ClientSampleId :

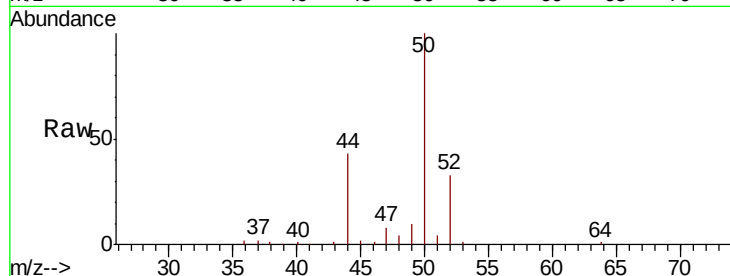
X2E76

Tgt Ion: 50 Resp: 42245

Ion Ratio Lower Upper

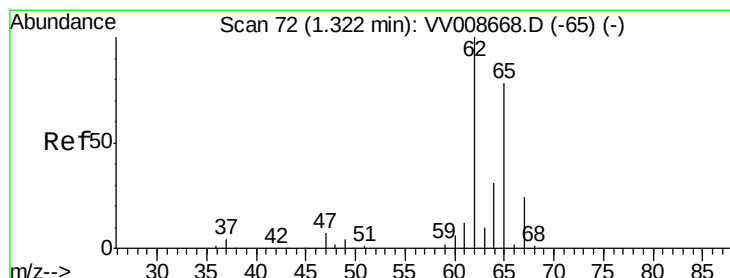
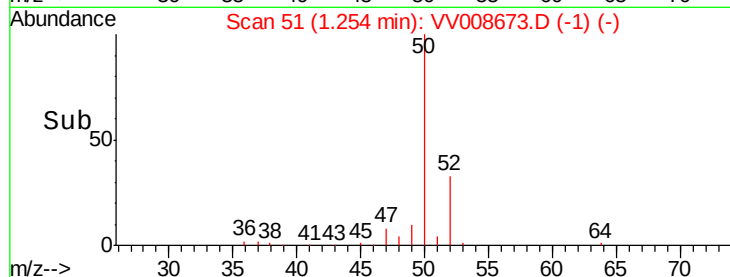
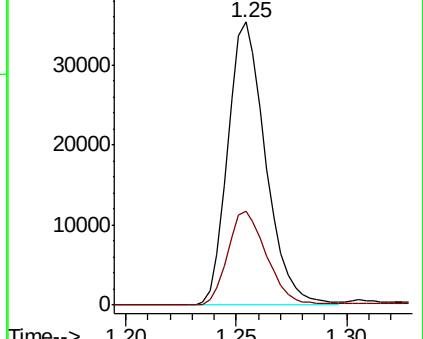
50 100

52 33.3 24.1 44.7



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0



#5

Vinyl chloride

Concen: 13.176 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV008673.D

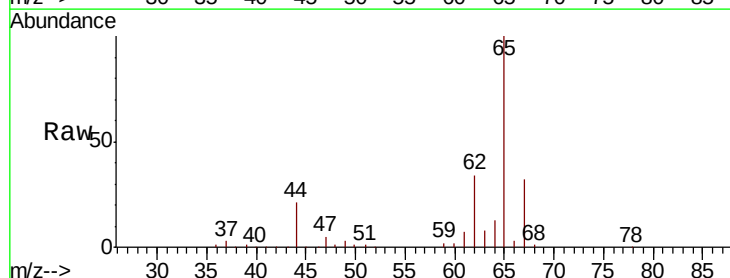
Acq: 20 Nov 2018 14:56

Tgt Ion: 62 Resp: 28925

Ion Ratio Lower Upper

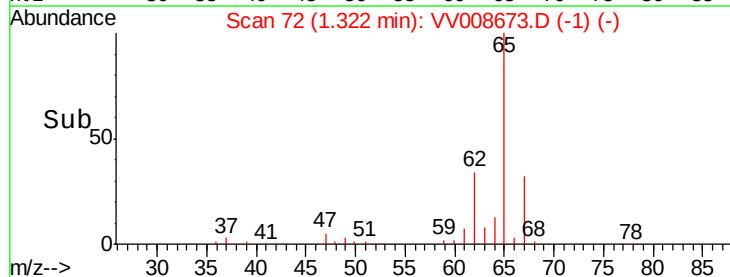
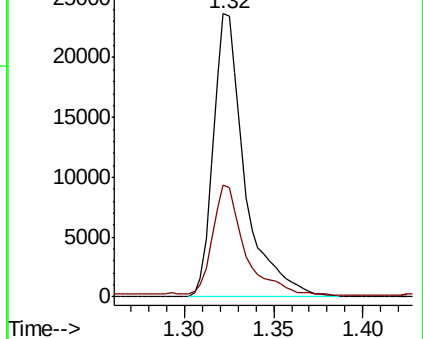
62 100

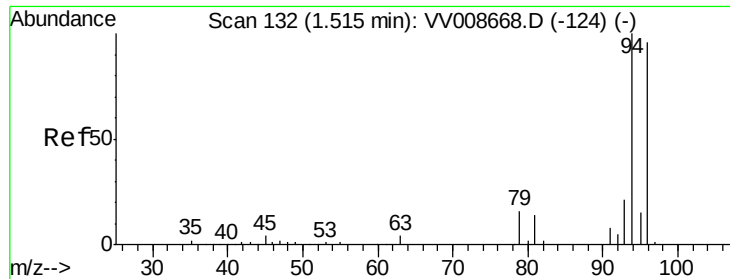
64 39.5 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0





#6

Bromomethane

Concen: 7.406 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.01 min

Lab File: VV008673.D

Acq: 20 Nov 2018 14:56

Instrument :

MSVOA_V

ClientSampleId :

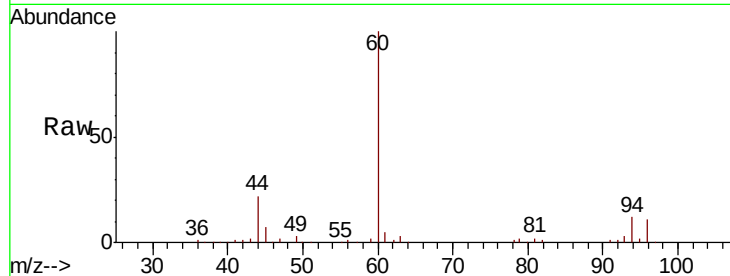
X2E76

Tgt Ion: 94 Resp: 5485

Ion Ratio Lower Upper

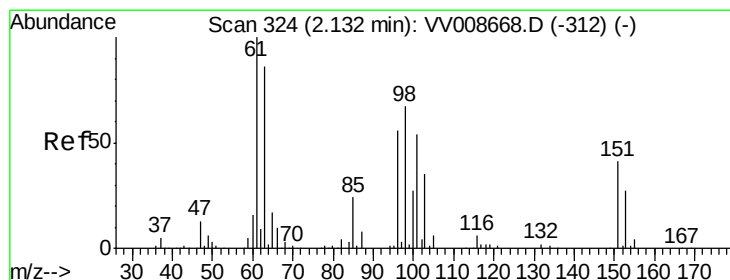
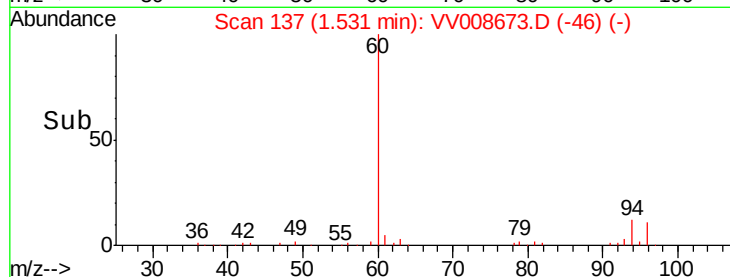
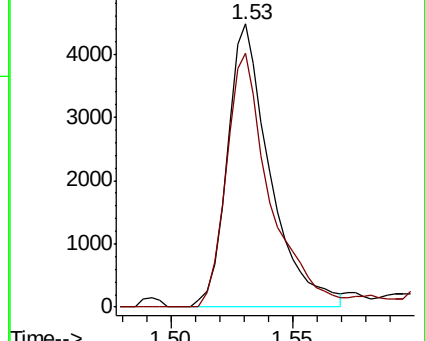
94 100

96 89.9 66.6 123.8



Abundance Ion 94.00 (93.70 to 94.70): VV008673.D (-137) (-)

Ion 96.00 (95.70 to 96.70): VV008673.D (-137) (-)



#10

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

Concen: 0.891 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.02 min

Lab File: VV008673.D

Acq: 20 Nov 2018 14:56

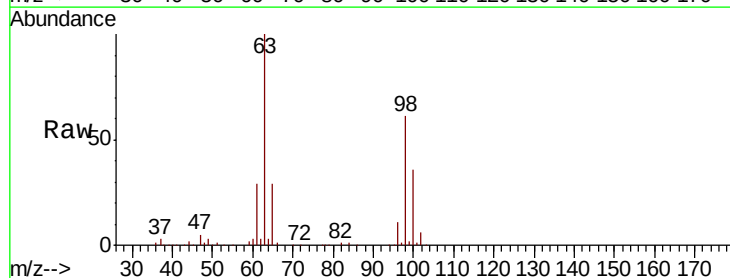
Tgt Ion: 101 Resp: 1453

Ion Ratio Lower Upper

101 100

85 0.0 37.0 55.6#

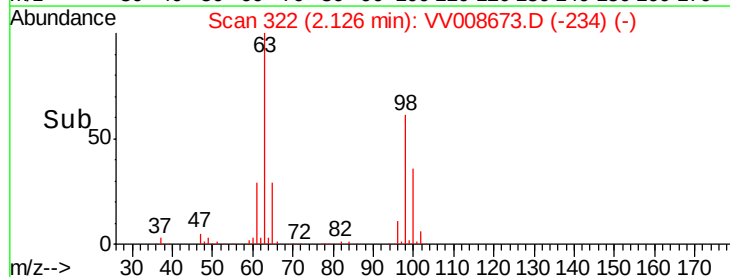
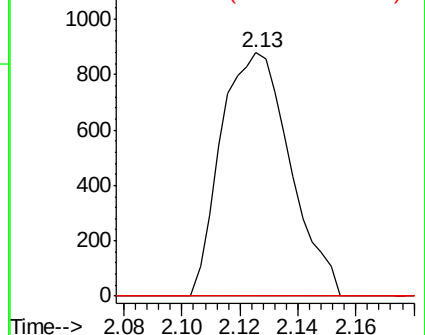
151 0.0 63.8 95.8#

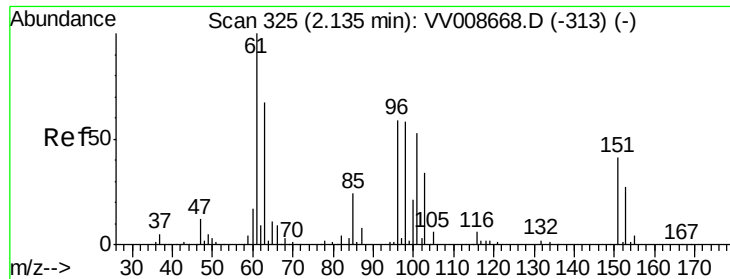


Abundance Ion 101.00 (100.70 to 101.70): VV008673.D (-322) (-)

Ion 85.00 (84.70 to 85.70): VV008673.D (-322) (-)

Ion 151.00 (150.70 to 151.70): VV008673.D (-322) (-)

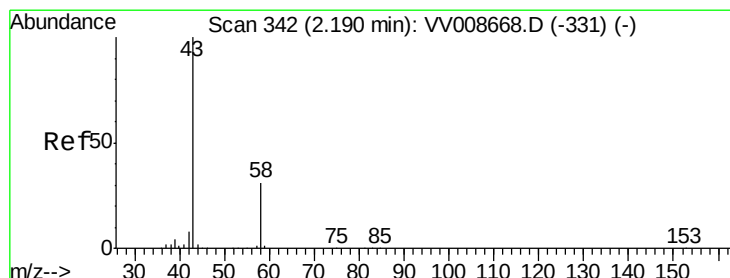
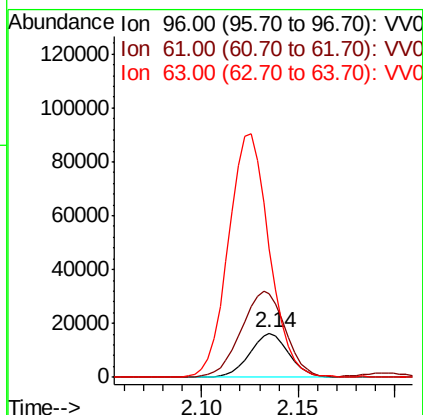
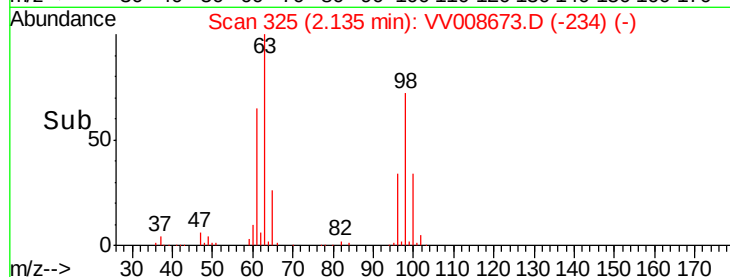
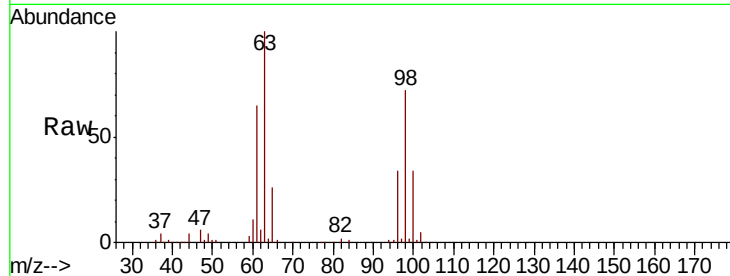




#12
 1,1-Dichloroethene
 Concen: 15.907 ug/L
 RT: 2.14 min Scan# 325
 Delta R.T. -0.01 min
 Lab File: VV008673.D
 Acq: 20 Nov 2018 14:56

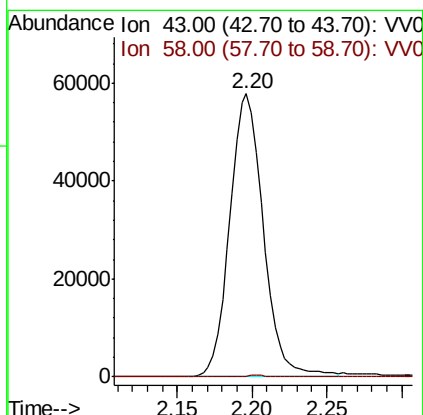
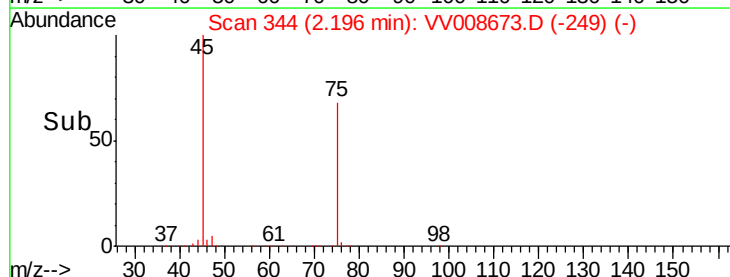
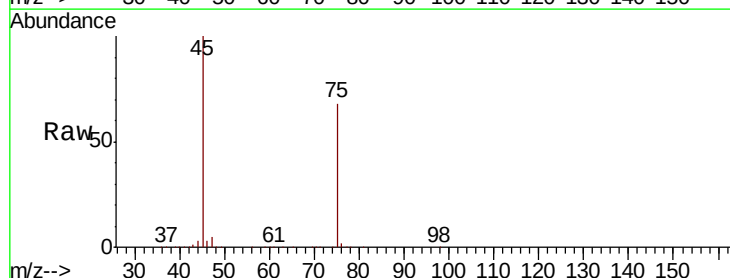
Instrument :
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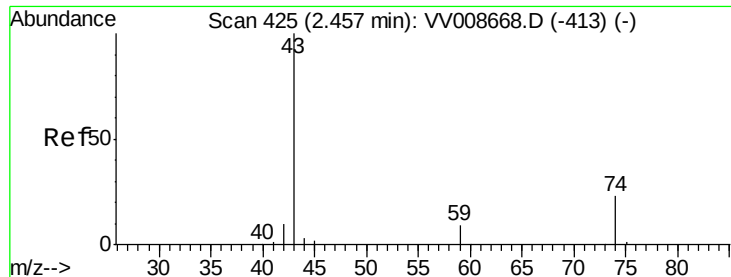
Tgt Ion: 96 Resp: 23280
 Ion Ratio Lower Upper
 96 100
 61 188.4 120.3 223.3
 63 291.6 113.3 210.5#



#13
 Acetone
 Concen: 54.770 ug/L
 RT: 2.20 min Scan# 344
 Delta R.T. 0.01 min
 Lab File: VV008673.D
 Acq: 20 Nov 2018 14:56

Tgt Ion: 43 Resp: 89823
 Ion Ratio Lower Upper
 43 100
 58 0.1 0.0 62.8

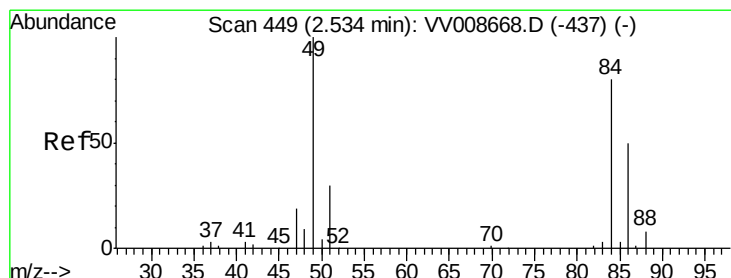
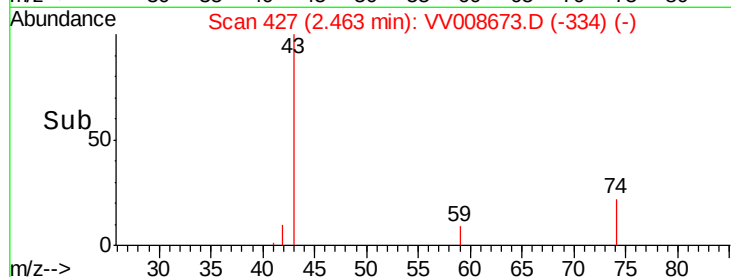
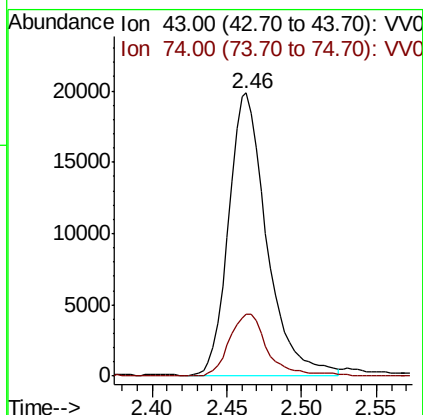
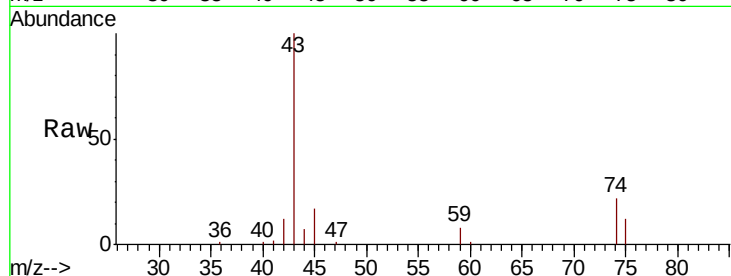




#15
Methyl Acetate
Concen: 13.698 ug/L
RT: 2.46 min Scan# 427
Delta R.T. -0.00 min
Lab File: VV008673.D
Acq: 20 Nov 2018 14:56

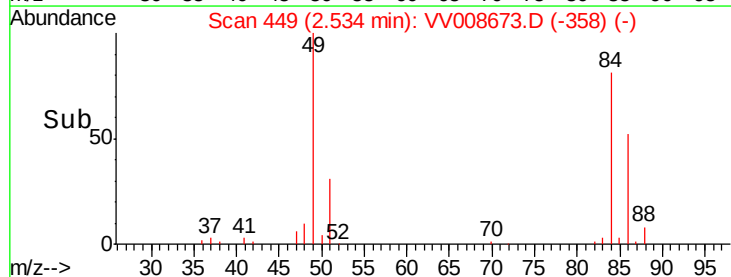
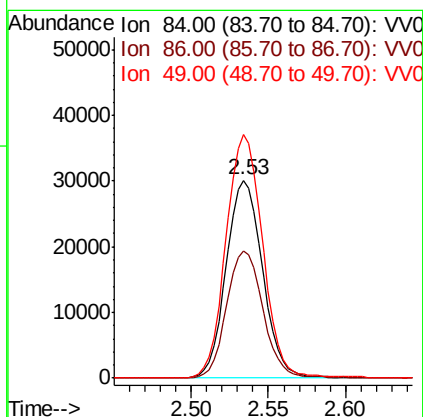
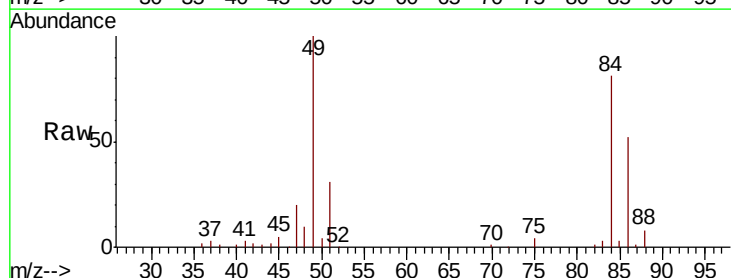
Instrument :
MSVOA_V
ClientSampleId :
X2E76

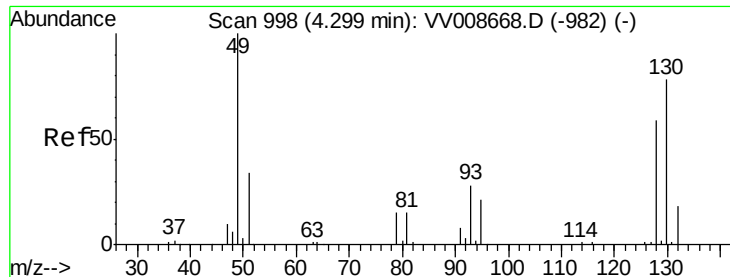
Tgt Ion: 43 Resp: 35422
Ion Ratio Lower Upper
43 100
74 21.3 19.0 28.6



#16
Methylene chloride
Concen: 21.642 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.01 min
Lab File: VV008673.D
Acq: 20 Nov 2018 14:56

Tgt Ion: 84 Resp: 49058
Ion Ratio Lower Upper
84 100
86 64.3 50.6 94.0
49 123.2 86.5 160.7





#23

Bromochloromethane

Concen: 1.015 ug/L

RT: 4.31 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VV008673.D

Acq: 20 Nov 2018 14:56

Instrument :
MSVOA_V
ClientSampleId :
X2E76

Tgt Ion:128 Resp: 1134

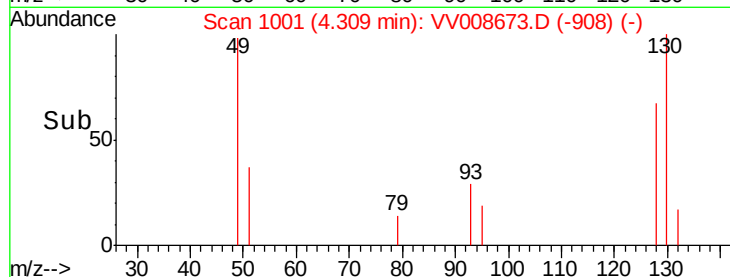
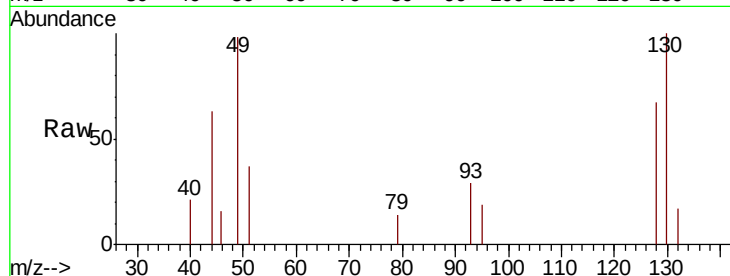
Ion Ratio Lower Upper

128 100

49 146.1 97.0 180.2

130 149.3 81.0 150.4

51 54.7 36.8 55.2



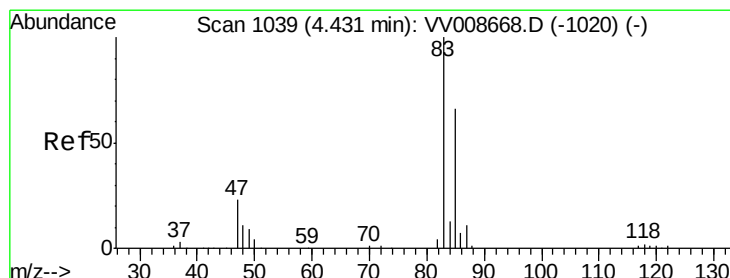
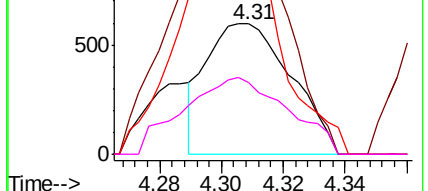
Abundance Ion 128.00 (127.70 to 128.70): VV008673.D (-908) (-)

Ion 49.00 (48.70 to 49.70): VV008673.D (-908) (-)

Ion 130.00 (129.70 to 130.70): VV008673.D (-908) (-)

Ion 51.00 (50.70 to 51.70): VV008673.D (-908) (-)

Time-->



#25

Chloroform

Concen: 21.127 ug/L

RT: 4.43 min Scan# 1038

Delta R.T. -0.00 min

Lab File: VV008673.D

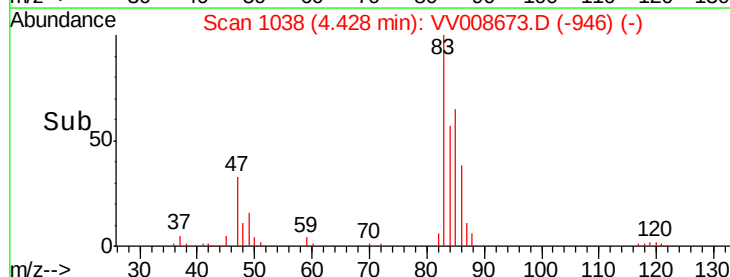
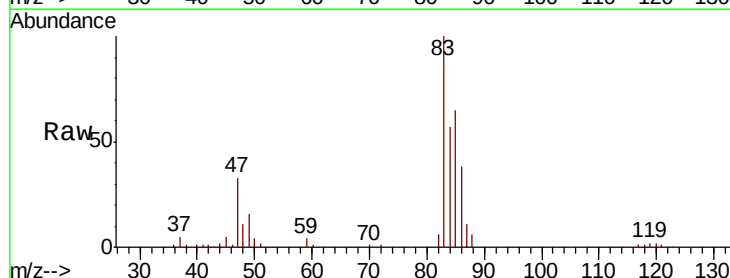
Acq: 20 Nov 2018 14:56

Tgt Ion: 83 Resp: 85633

Ion Ratio Lower Upper

83 100

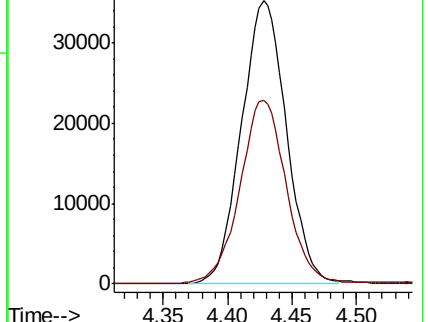
85 64.9 42.8 79.4

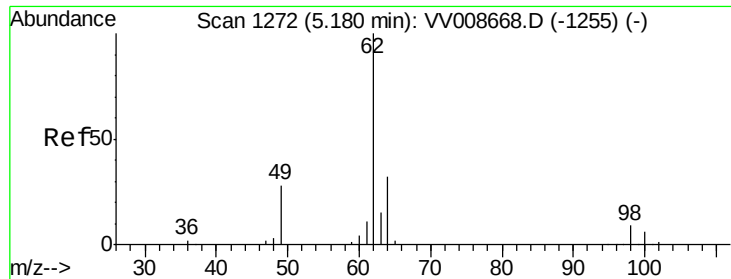


Abundance Ion 83.00 (82.70 to 83.70): VV008673.D (-946) (-)

Ion 85.00 (84.70 to 85.70): VV008673.D (-946) (-)

Time-->

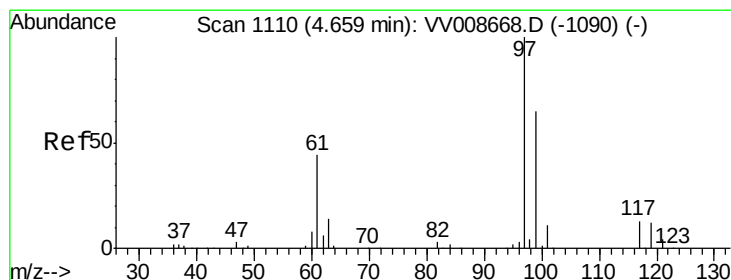
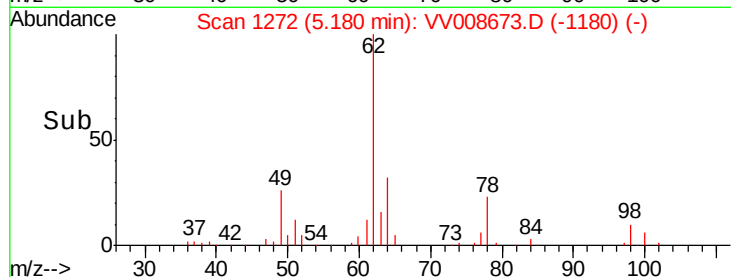
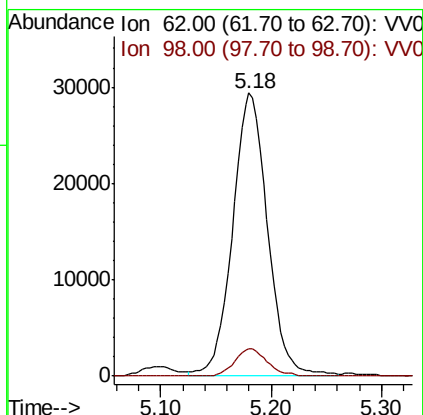
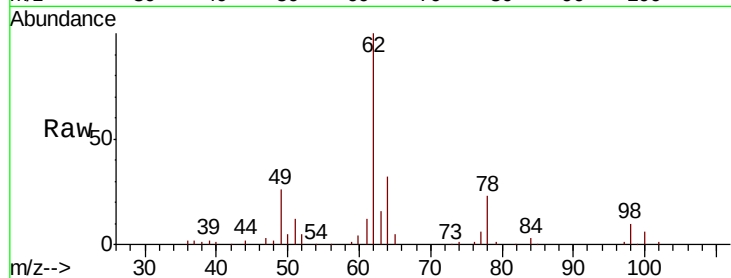




#27
 1,2-Dichloroethane
 Concen: 20.362 ug/L
 RT: 5.18 min Scan# 1272
 Delta R.T. -0.00 min
 Lab File: VV008673.D
 Acq: 20 Nov 2018 14:56

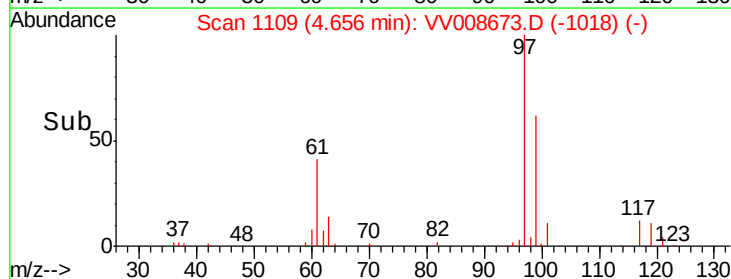
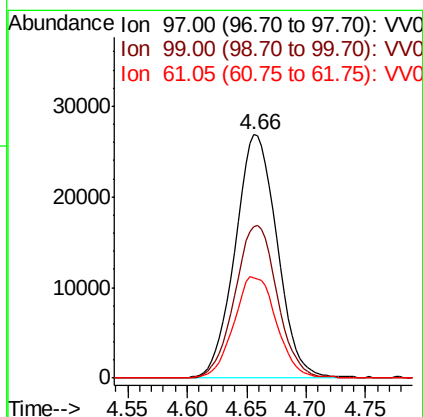
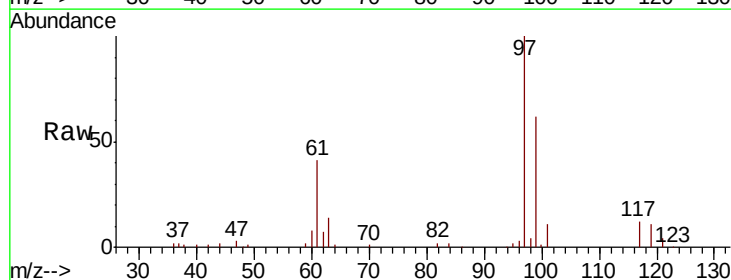
Instrument :
 MSVOA_V
 ClientSampleId :
 X2E76

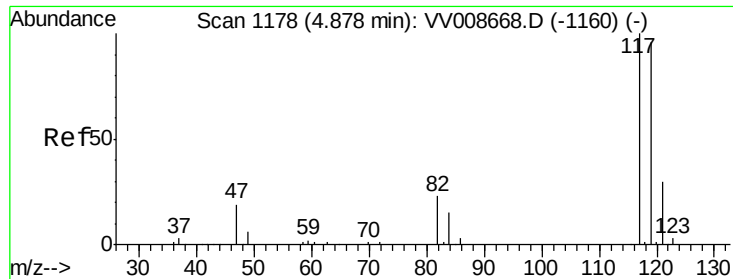
Tgt Ion: 62 Resp: 63935
 Ion Ratio Lower Upper
 62 100
 98 9.5 7.4 11.2



#30
 1,1,1-Trichloroethane
 Concen: 20.533 ug/L
 RT: 4.66 min Scan# 1109
 Delta R.T. -0.01 min
 Lab File: VV008673.D
 Acq: 20 Nov 2018 14:56

Tgt Ion: 97 Resp: 65684
 Ion Ratio Lower Upper
 97 100
 99 63.5 53.0 79.6
 61 42.5 37.4 56.2





#31

Carbon tetrachloride

Concen: 3.047 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. -0.22 min

Lab File: VV008673.D

Acq: 20 Nov 2018 14:56

Instrument :

MSVOA_V

ClientSampleId :

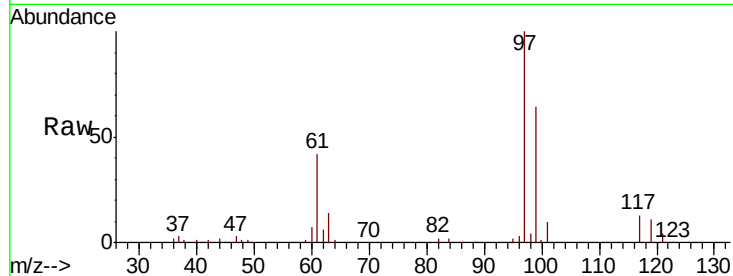
X2E76

Tgt Ion:117 Resp: 8105

Ion Ratio Lower Upper

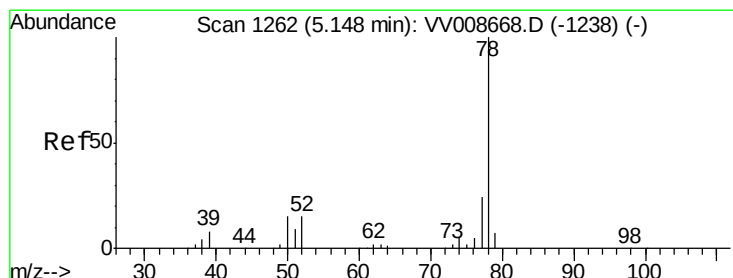
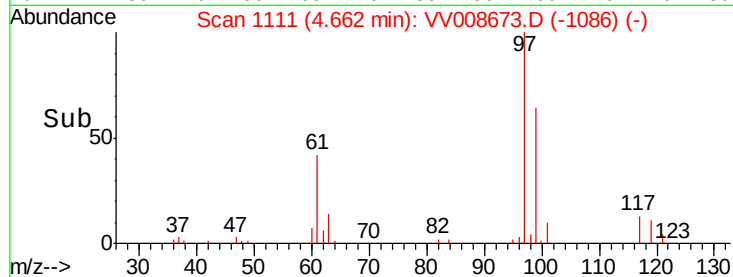
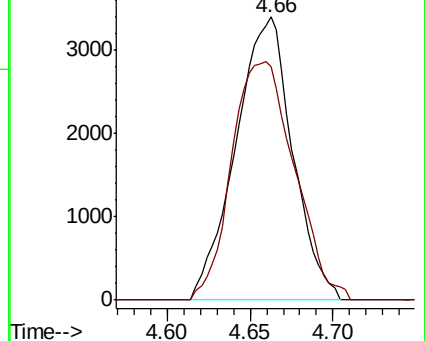
117 100

119 92.9 75.6 113.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 21.305 ug/L

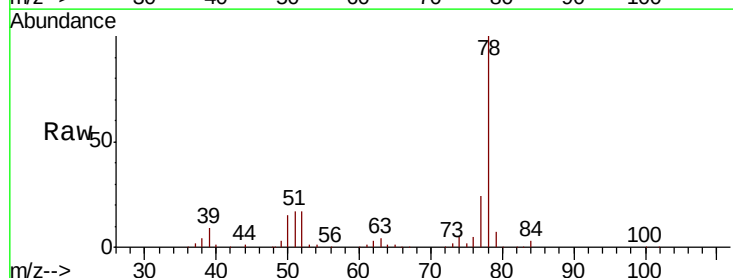
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

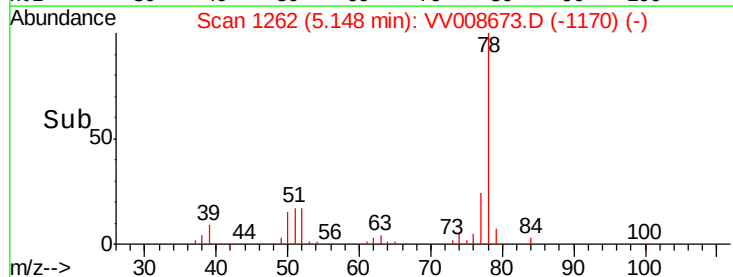
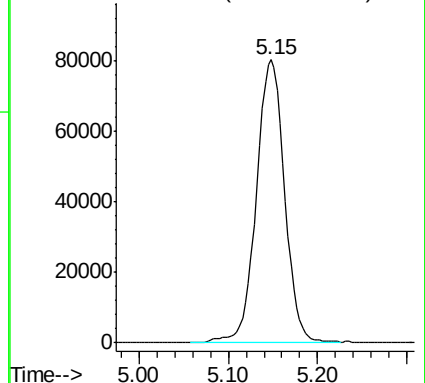
Lab File: VV008673.D

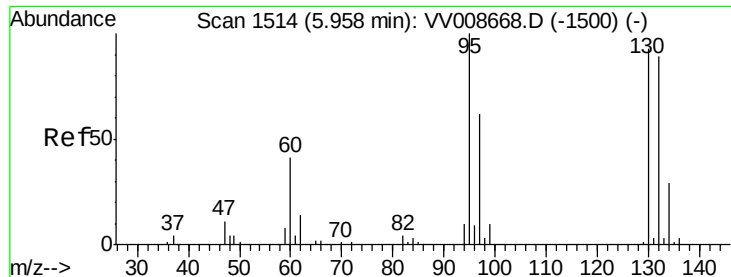
Acq: 20 Nov 2018 14:56

Tgt Ion: 78 Resp: 177317



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 19.809 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.01 min

Lab File: VV008673.D

Acq: 20 Nov 2018 14:56

Instrument :

MSVOA_V

ClientSampleId :

X2E76

Tgt Ion: 95 Resp: 43693

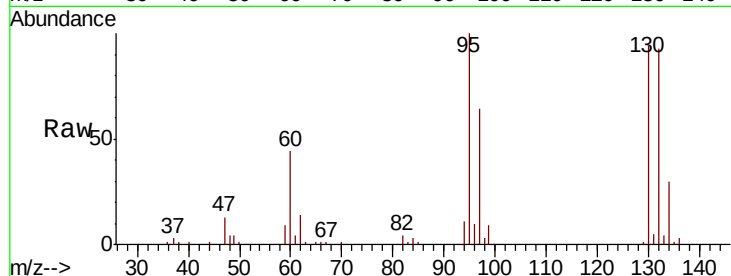
Ion Ratio Lower Upper

95 100

97 64.2 43.8 81.3

132 92.6 58.3 108.3

130 94.2 60.3 112.1

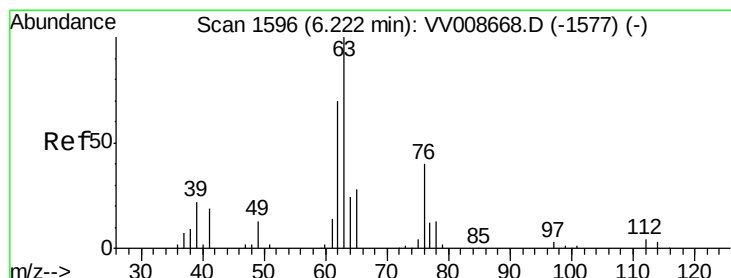
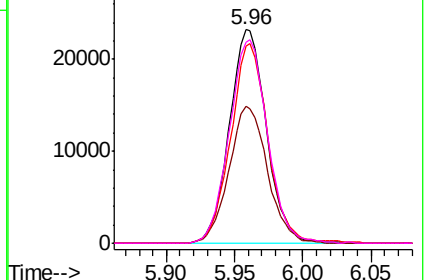
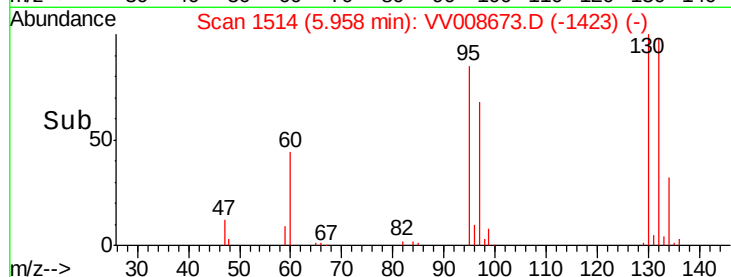


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#37

1,2-Dichloropropane

Concen: 20.735 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VV008673.D

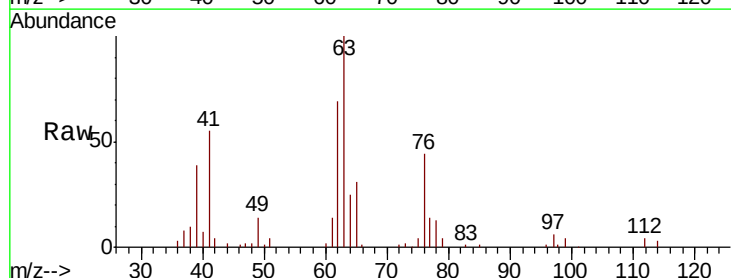
Acq: 20 Nov 2018 14:56

Tgt Ion: 63 Resp: 46614

Ion Ratio Lower Upper

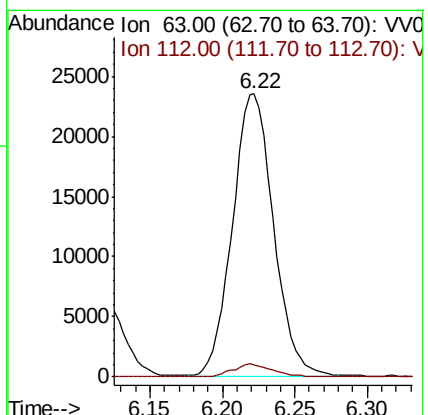
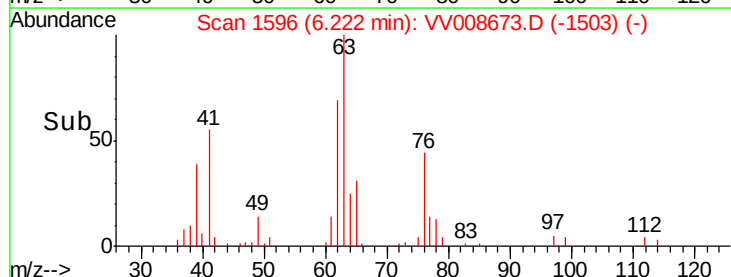
63 100

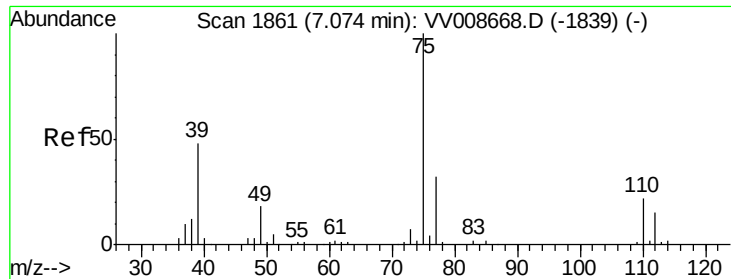
112 4.2 1.6 2.4#



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 112.00 (111.70 to 112.70): V

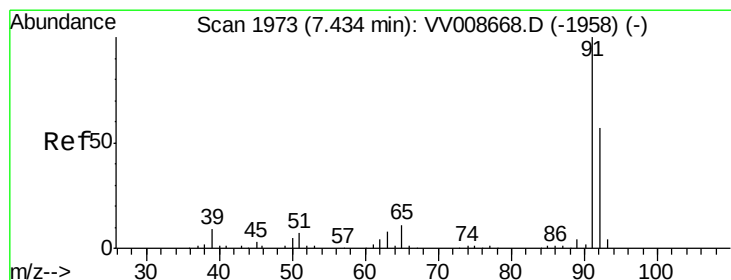
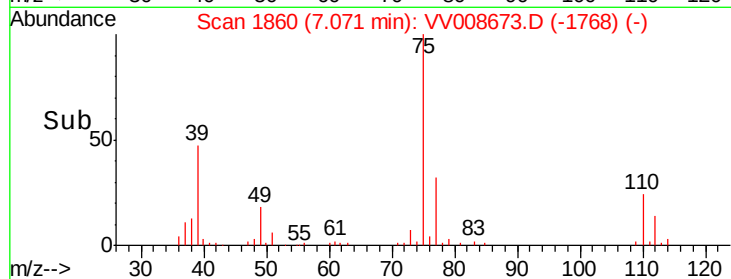
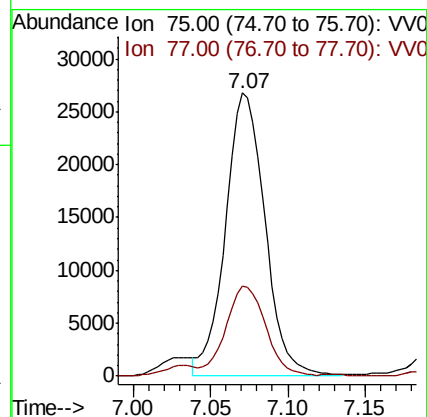
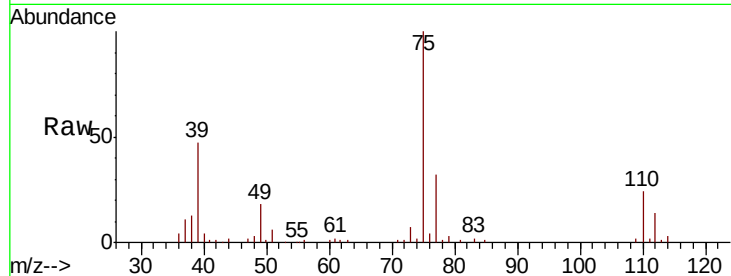




#39
 cis-1,3-Dichloropropene
 Concen: 14.817 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. -0.00 min
 Lab File: VV008673.D
 Acq: 20 Nov 2018 14:56

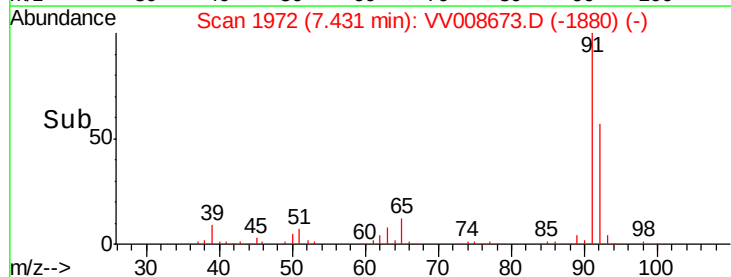
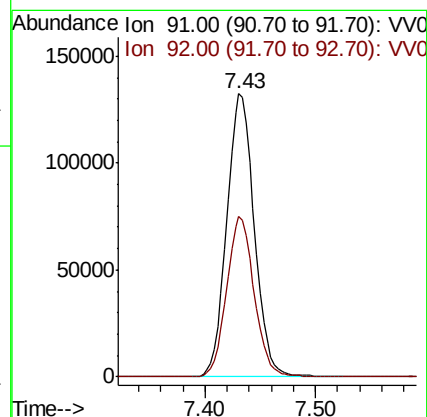
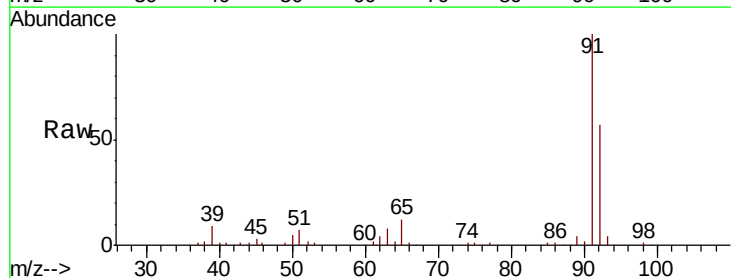
Instrument :
 MSVOA_V
 ClientSampleId :
 X2E76

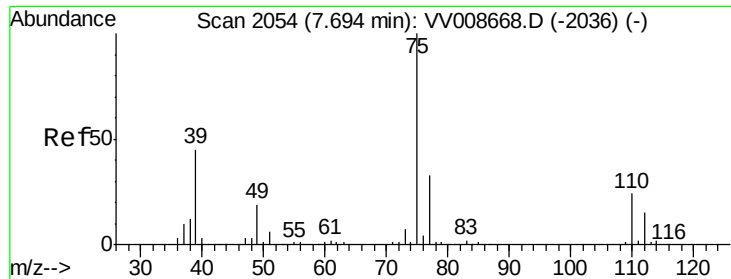
Tgt Ion: 75 Resp: 47341
 Ion Ratio Lower Upper
 75 100
 77 31.7 20.2 37.4



#42
 Toluene
 Concen: 26.526 ug/L
 RT: 7.43 min Scan# 1972
 Delta R.T. -0.00 min
 Lab File: VV008673.D
 Acq: 20 Nov 2018 14:56

Tgt Ion: 91 Resp: 229595
 Ion Ratio Lower Upper
 91 100
 92 56.7 41.6 77.2

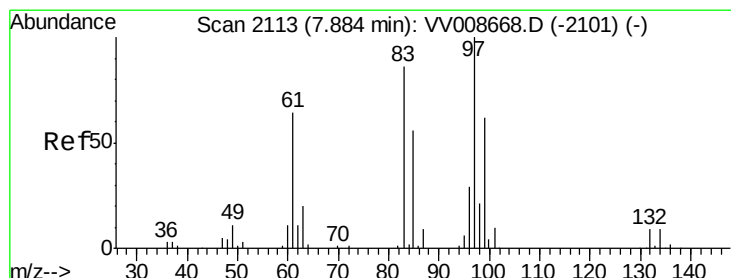
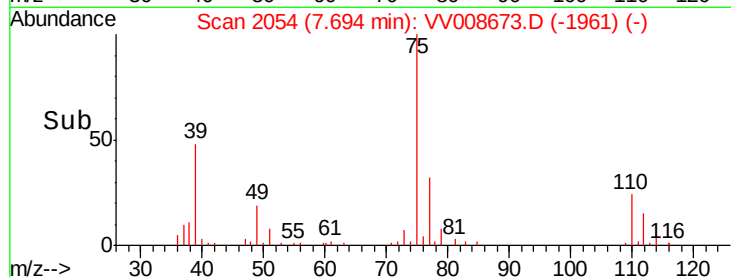
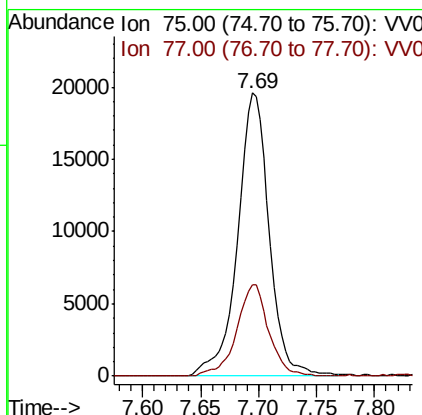
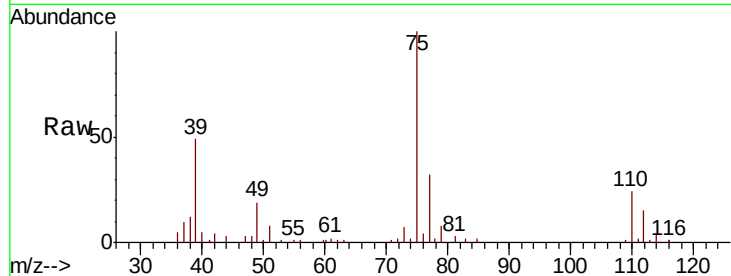




#44
trans-1,3-Dichloropropene
Concen: 12.761 ug/L
RT: 7.69 min Scan# 2054
Delta R.T. -0.00 min
Lab File: VV008673.D
Acq: 20 Nov 2018 14:56

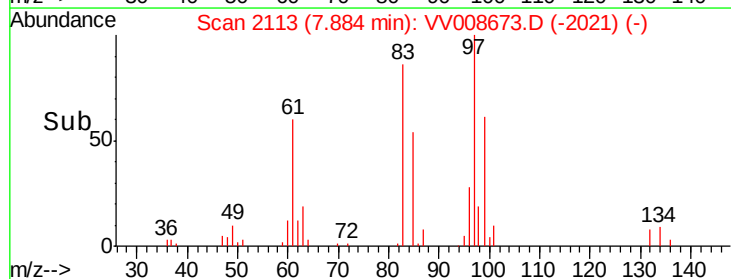
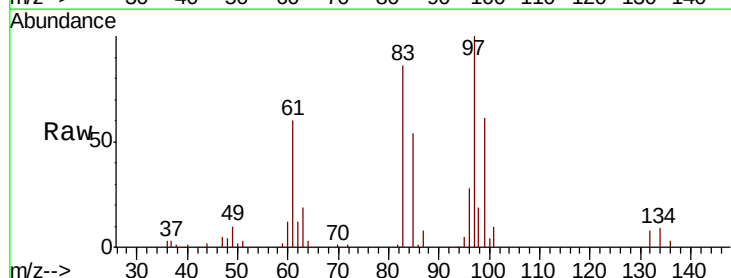
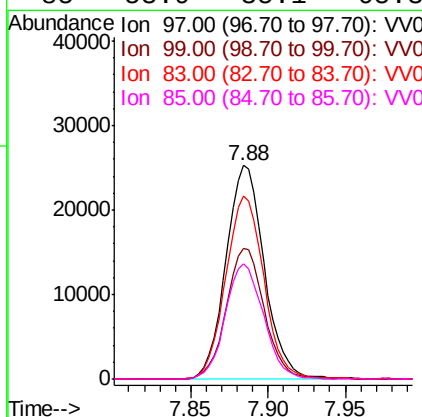
Instrument :
MSVOA_V
ClientSampleId :
X2E76

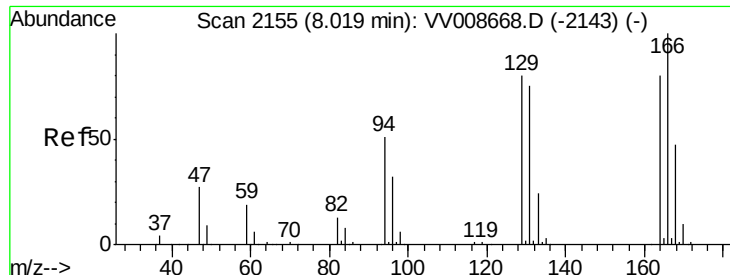
Tgt Ion: 75 Resp: 37091
Ion Ratio Lower Upper
75 100
77 32.2 24.6 45.8



#45
1,1,2-Trichloroethane
Concen: 21.110 ug/L
RT: 7.88 min Scan# 2113
Delta R.T. -0.00 min
Lab File: VV008673.D
Acq: 20 Nov 2018 14:56

Tgt Ion: 97 Resp: 43307
Ion Ratio Lower Upper
97 100
99 61.4 40.0 74.2
83 85.8 56.6 105.0
85 53.9 35.1 65.3





#46

Tetrachloroethene

Concen: 19.979 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.00 min

Lab File: VV008673.D

Acq: 20 Nov 2018 14:56

Instrument :

MSVOA_V

ClientSampleId :

X2E76

Tgt Ion:164 Resp: 31829

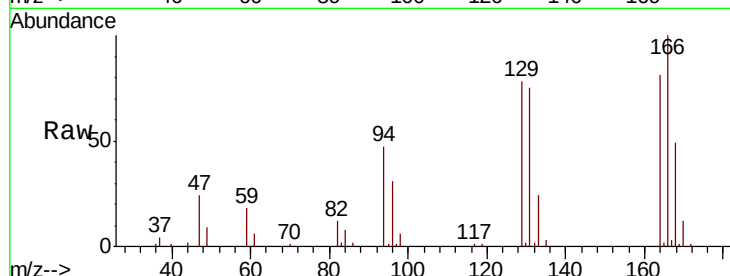
Ion Ratio Lower Upper

164 100

129 95.8 68.3 126.8

131 92.5 69.1 128.3

166 123.0 90.7 168.5

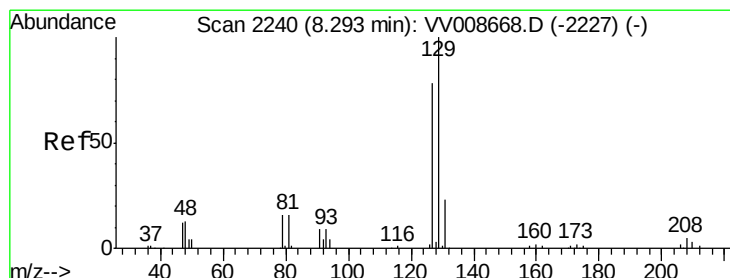
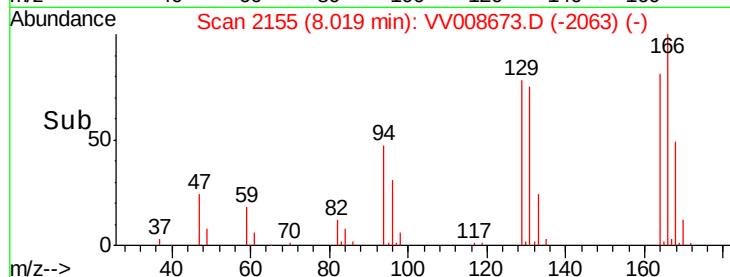
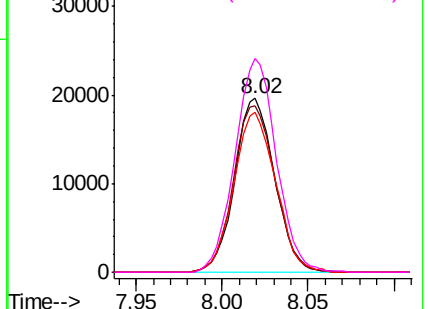


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#49

Dibromochloromethane

Concen: 14.821 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.27 min

Lab File: VV008673.D

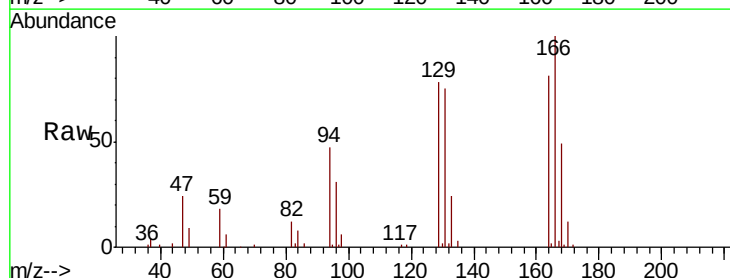
Acq: 20 Nov 2018 14:56

Tgt Ion:129 Resp: 30206

Ion Ratio Lower Upper

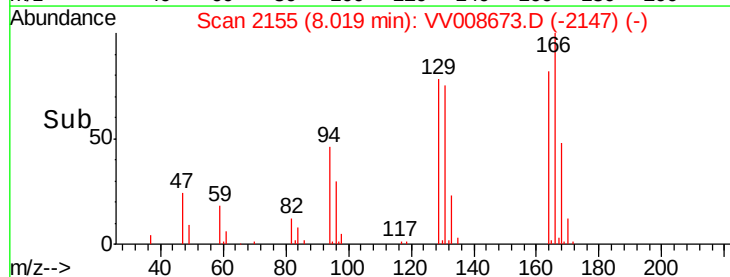
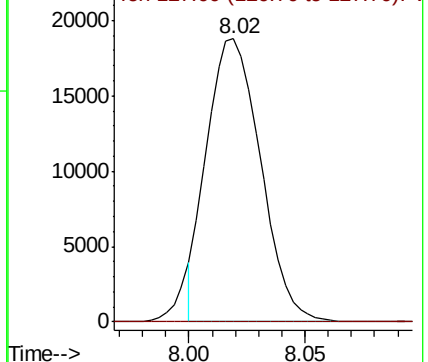
129 100

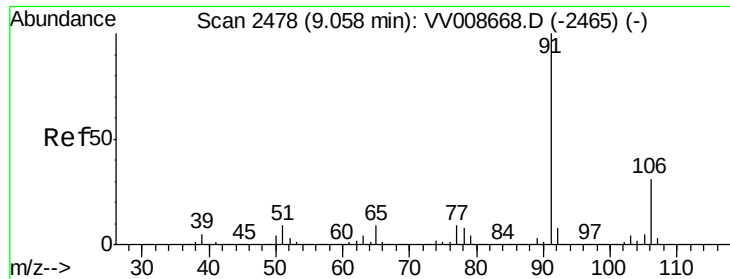
127 0.0 58.2 108.0#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#52

Ethylbenzene

Concen: 24.967 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. -0.00 min

Lab File: VV008673.D

Acq: 20 Nov 2018 14:56

Instrument :

MSVOA_V

ClientSampleId :

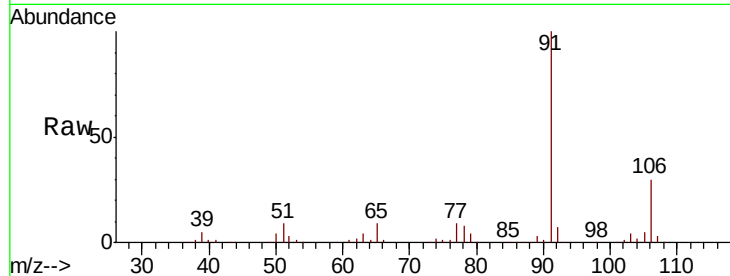
X2E76

Tgt Ion: 91 Resp: 237102

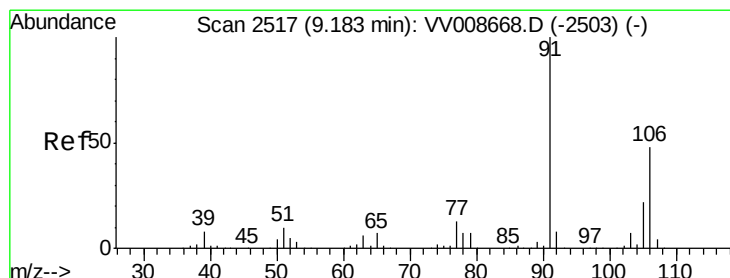
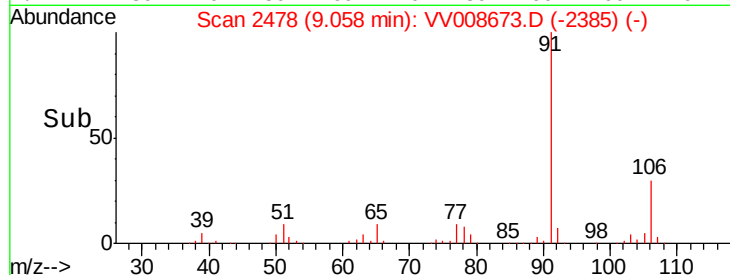
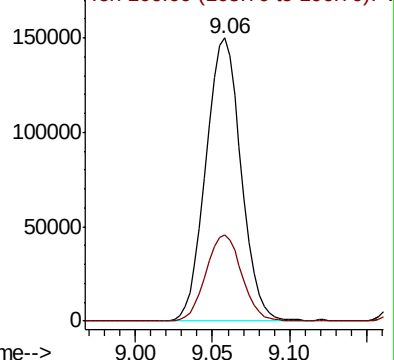
Ion Ratio Lower Upper

91 100

106 30.4 21.2 39.4



Abundance Ion 91.00 (90.70 to 91.70): VV008673.D (-2465) (-)



#53

m,p-Xylene

Concen: 25.877 ug/L

RT: 9.19 min Scan# 2518

Delta R.T. 0.00 min

Lab File: VV008673.D

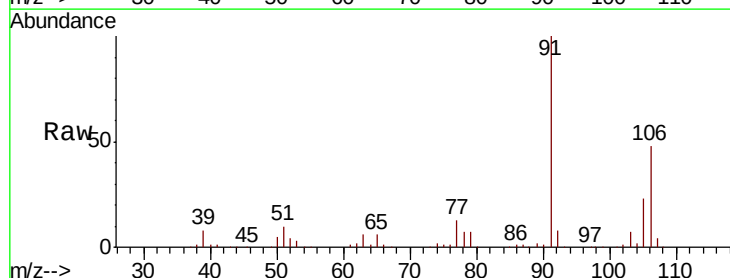
Acq: 20 Nov 2018 14:56

Tgt Ion: 106 Resp: 90301

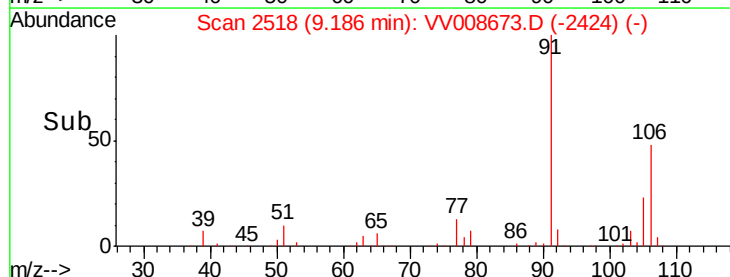
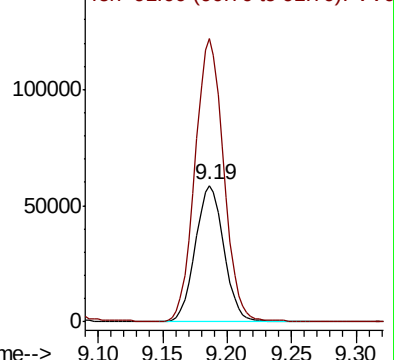
Ion Ratio Lower Upper

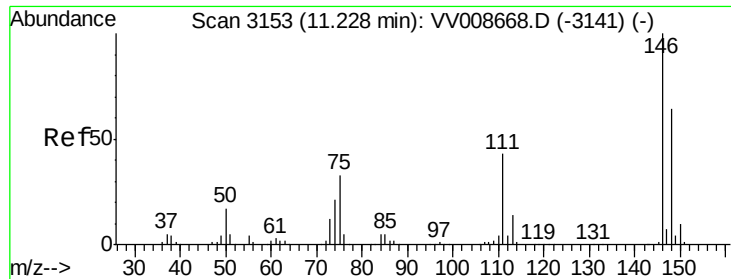
106 100

91 207.1 154.7 287.3



Abundance Ion 106.00 (105.70 to 106.70): VV008673.D (-2517) (-)

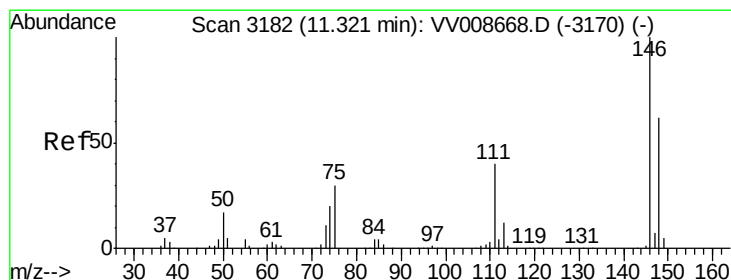
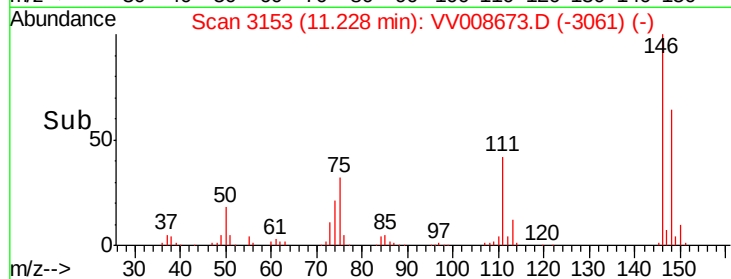
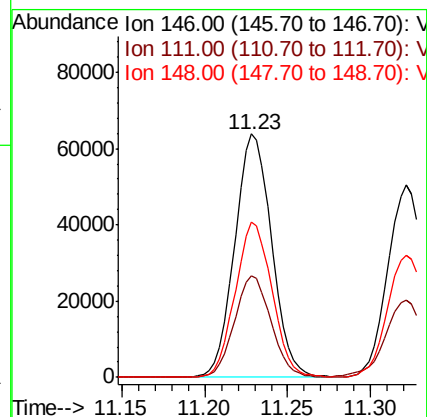
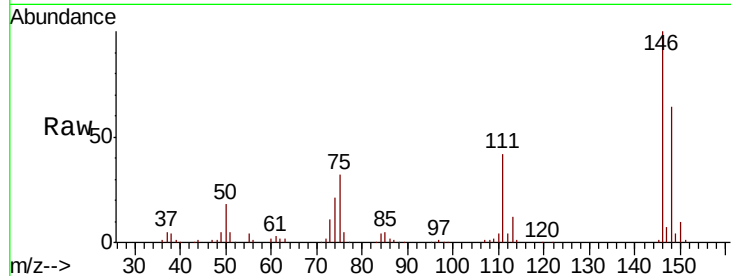




#62
 1,3-Dichlorobenzene
 Concen: 25.401 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. -0.00 min
 Lab File: VV008673.D
 Acq: 20 Nov 2018 14:56

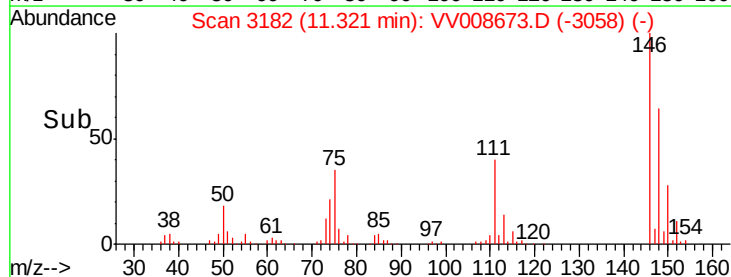
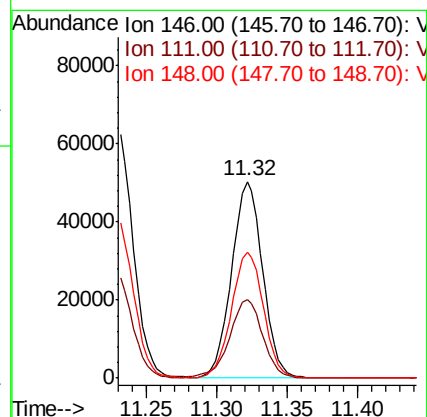
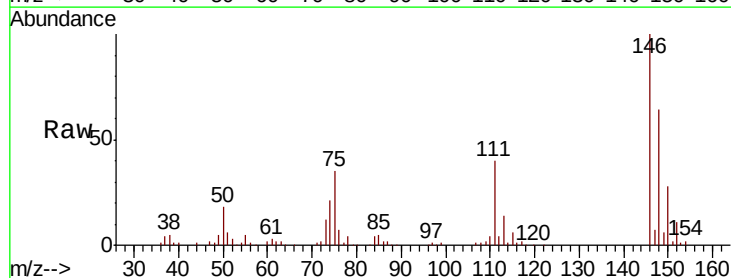
Instrument :
 MSVOA_V
 ClientSampleId :
 X2E76

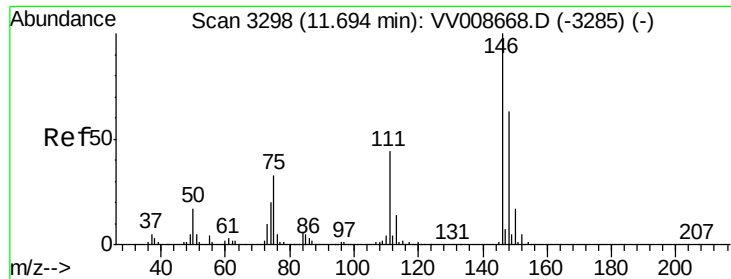
Tgt Ion:146 Resp: 99114
 Ion Ratio Lower Upper
 146 100
 111 41.9 27.9 51.7
 148 63.6 42.7 79.3



#63
 1,4-Dichlorobenzene
 Concen: 19.587 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: VV008673.D
 Acq: 20 Nov 2018 14:56

Tgt Ion:146 Resp: 77893
 Ion Ratio Lower Upper
 146 100
 111 40.3 27.7 51.5
 148 63.9 46.4 86.2

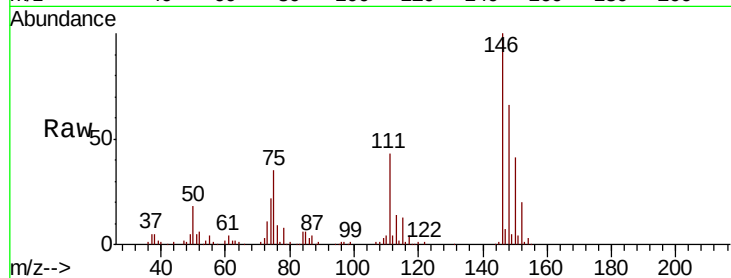




#65
 1,2-Dichlorobenzene
 Concen: 25.422 ug/L
 RT: 11.69 min Scan# 3298
 Delta R.T. -0.00 min
 Lab File: VV008673.D
 Acq: 20 Nov 2018 14:56

Instrument :
 MSVOA_V
 ClientSampleId :
 X2E76

Tgt Ion:146 Resp: 102388
 Ion Ratio Lower Upper
 146 100
 111 43.4 36.5 54.7
 148 65.5 48.7 73.1



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

