

Data File : VV009762.D
Acq On : 18 Mar 2019 16:35
Operator : SY/MD
Sample : K1967-02
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
C09B0

Quant Time: Mar 19 04:34:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM031719WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 18 12:32:58 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	147539	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	145194	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	73404	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	42148	42.37	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.74%
7) Chloroethane-d5	1.56	69	34932	47.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.20%
11) 1,1-Dichloroethene-d2	2.12	63	70624	33.34	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.68%
21) 2-Butanone-d5	3.93	46	57829	97.60	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.60%
24) Chloroform-d	4.40	84	81650	44.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.36%
26) 1,2-Dichloroethane-d4	5.08	65	52012	46.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.78%
32) Benzene-d6	5.10	84	175440	46.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.48%
36) 1,2-Dichloropropane-d6	6.12	67	52989	45.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.74%
41) Toluene-d8	7.36	98	170052	46.58	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.16%
43) trans-1,3-Dichloropropene-	7.67	79	24868	45.53	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.06%
47) 2-Hexanone-d5	8.14	63	43008	91.48	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.48%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	78226	44.64	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.28%
64) 1,2-Dichlorobenzene-d4	11.68	152	70308	47.34	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.68%

Target Compounds

						Qvalue
8) Chloroethane	1.21	64	44052	66.167	ug/L #	48
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	708	0.698	ug/L #	19
12) 1,1-Dichloroethene	2.13	96	638	0.725	ug/L #	1
13) Acetone	2.19	43	2767	4.930	ug/L	92
18) Methyl tert-butyl Ether	2.65	73	1404	0.472	ug/L #	1
27) 1,2-Dichloroethane	5.14	62	11418	8.423	ug/L #	74
31) Carbon tetrachloride	4.88	117	2420	1.854	ug/L	92
33) Benzene	5.15	78	1259423	317.803	ug/L	100
37) 1,2-Dichloropropane	6.12	63	6003	5.940	ug/L #	86
39) cis-1,3-Dichloropropene	7.03	75	1696	1.099	ug/L #	70
44) trans-1,3-Dichloropropene	7.67	75	1285	0.879	ug/L #	75
48) 2-Hexanone	8.14	43	5377	5.444	ug/L #	66
51) Chlorobenzene	8.94	112	7355542	2480.607	ug/L	92
62) 1,3-Dichlorobenzene	11.23	146	499161	207.279	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	2165198	891.215	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	2274624	925.707	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.44	75	7953	23.302	ug/L #	1

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV031819\
Quantitation Report (Not Reviewed)

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QLast Update : Mon Mar 18 12:32:58 2019
Response via : Initial Calibration

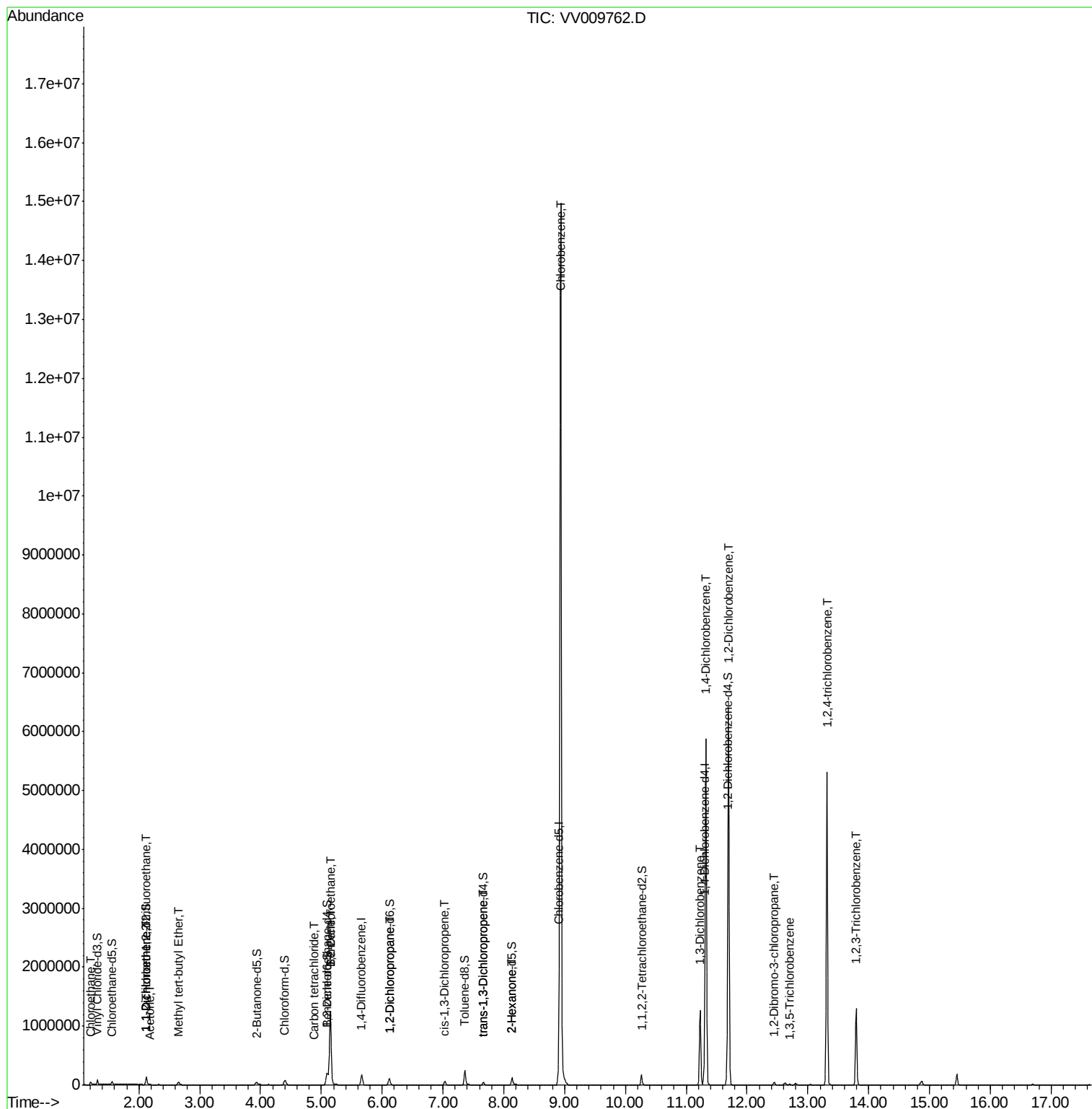
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,3,5-Trichlorobenzene	12.69	180	3323	2.170	ug/L	98
68) 1,2,4-trichlorobenzene	13.32	180	1424203	1326.791	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	346911	322.377	ug/L	97

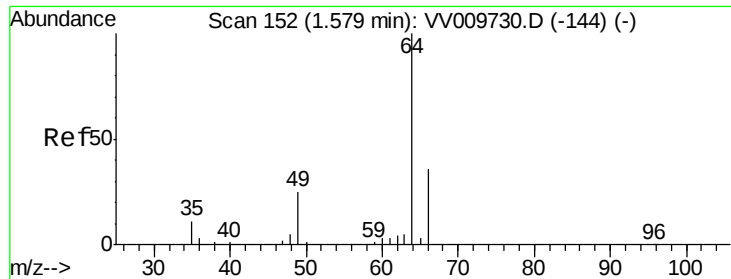
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 66.167 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.37 min

Lab File: VV009762.D

Acq: 18 Mar 2019 16:35

Instrument :

MSVOA_V

ClientSampleId :

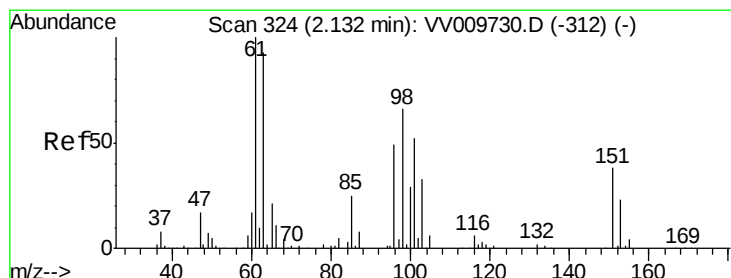
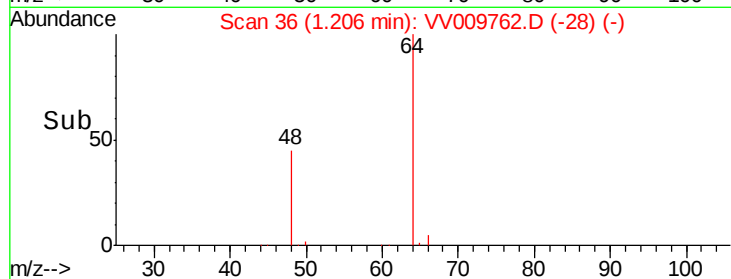
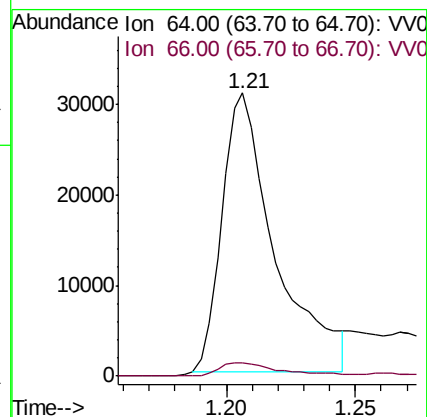
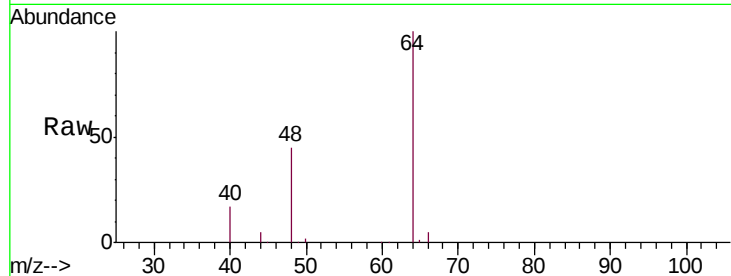
C09B0

Tgt Ion: 64 Resp: 44052

Ion Ratio Lower Upper

64 100

66 4.7 24.5 45.5#



#10

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

Concen: 0.698 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV009762.D

Acq: 18 Mar 2019 16:35

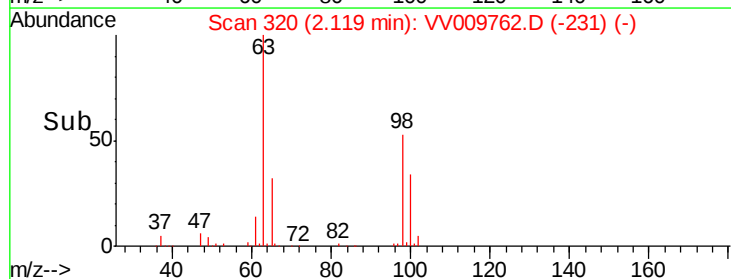
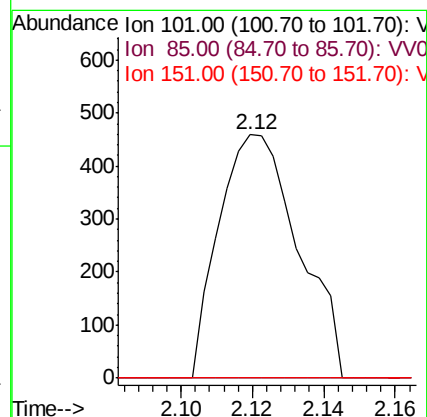
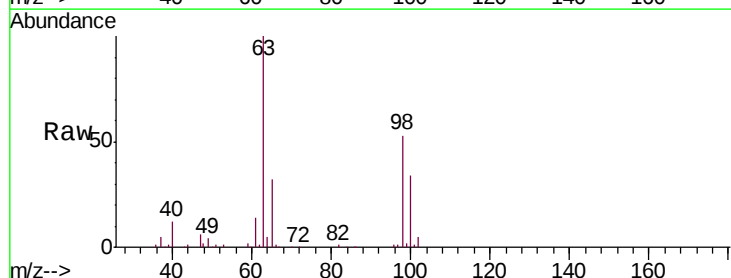
Tgt Ion: 101 Resp: 708

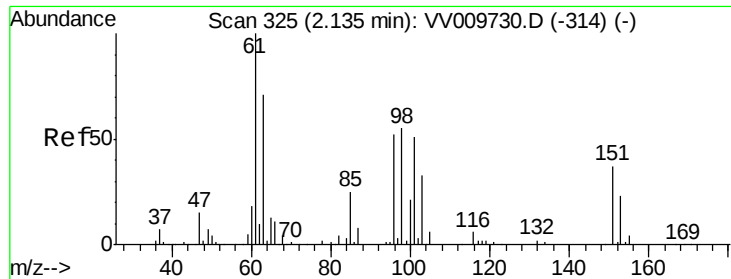
Ion Ratio Lower Upper

101 100

85 0.0 38.5 57.7#

151 0.0 58.9 88.3#





#12

1,1-Dichloroethene

Concen: 0.725 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV009762.D

Acq: 18 Mar 2019 16:35

Instrument :

MSVOA_V

ClientSampled :

C09B0

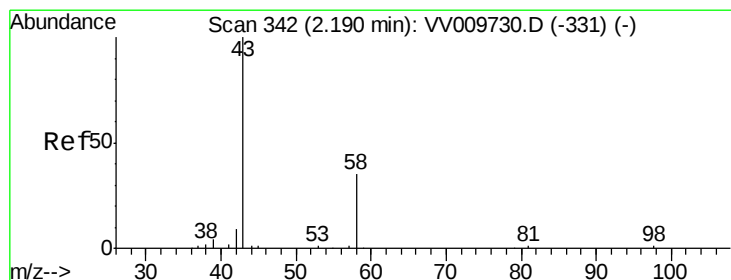
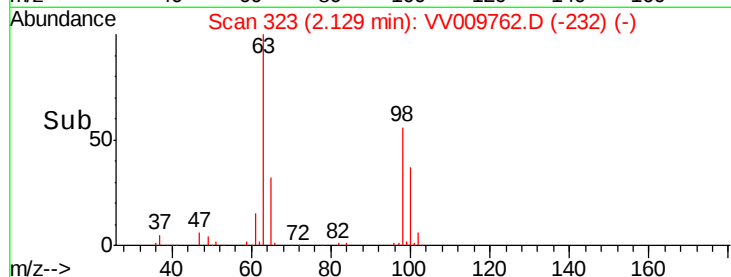
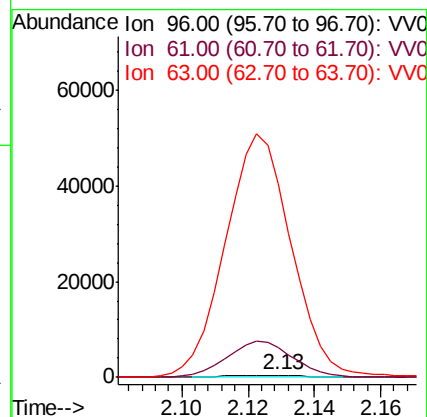
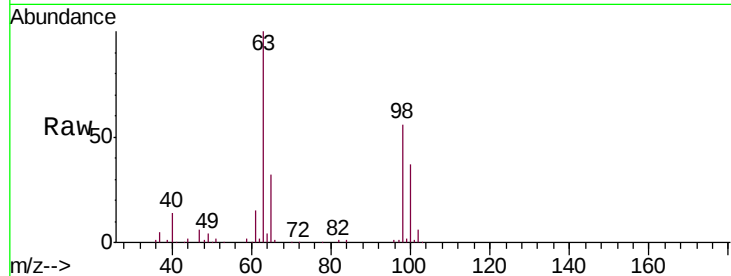
Tgt Ion: 96 Resp: 638

Ion Ratio Lower Upper

96 100

61 1692.7 135.5 251.7#

63 10936.9 100.2 186.2#



#13

Acetone

Concen: 4.930 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.00 min

Lab File: VV009762.D

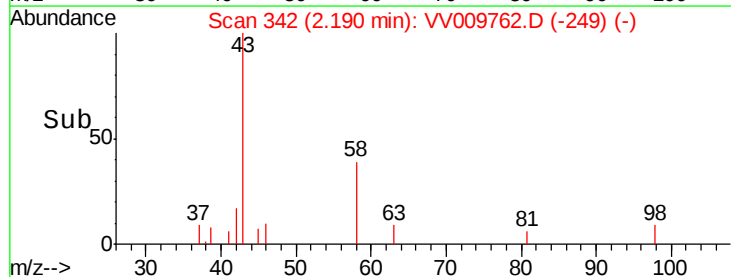
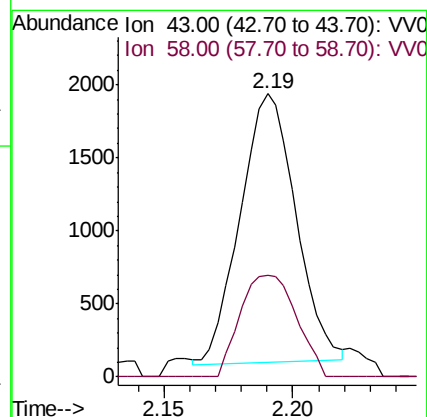
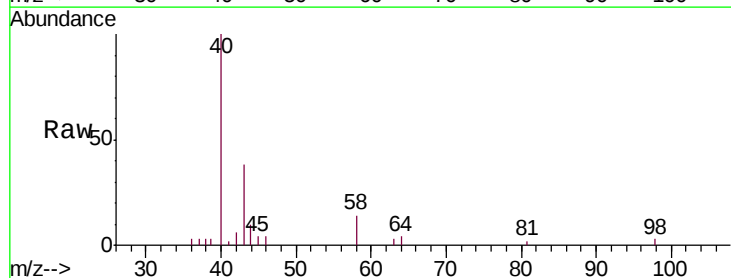
Acq: 18 Mar 2019 16:35

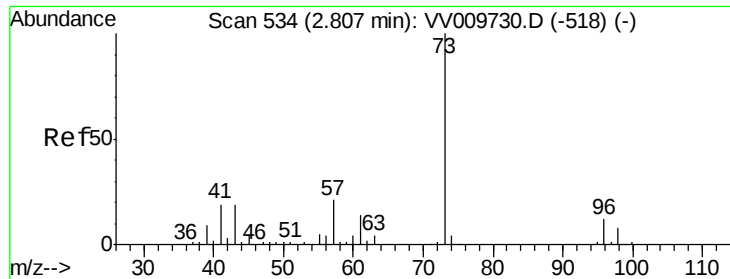
Tgt Ion: 43 Resp: 2767

Ion Ratio Lower Upper

43 100

58 38.3 0.0 67.8

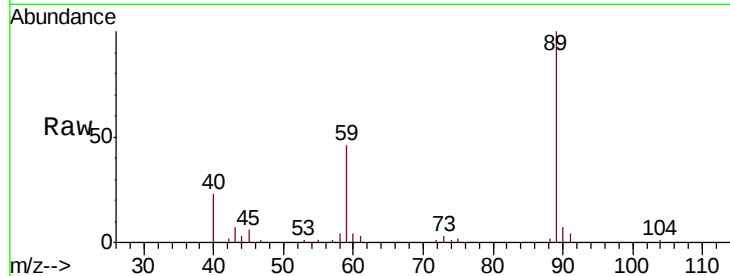




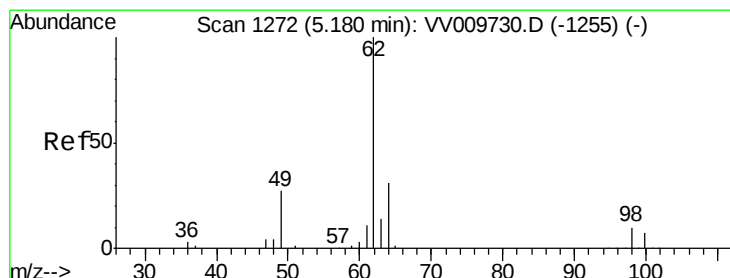
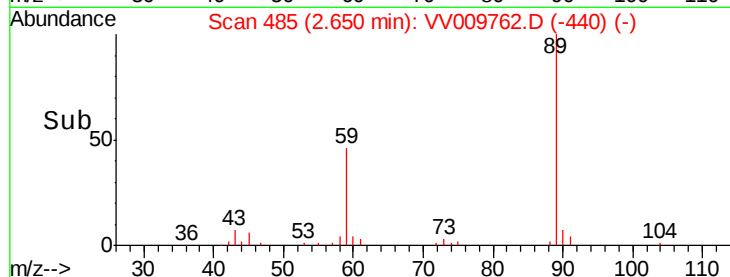
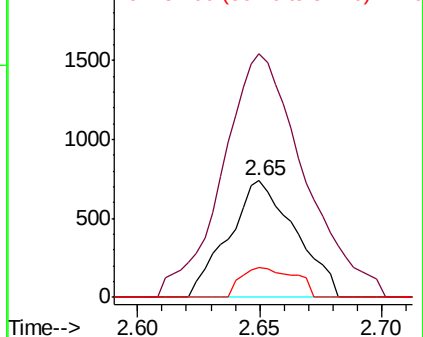
#18
Methyl tert-butyl Ether
Concen: 0.472 ug/L
RT: 2.65 min Scan# 485
Delta R.T. -0.15 min
Lab File: VV009762.D
Acq: 18 Mar 2019 16:35

Instrument :
MSVOA_V
ClientSampleId :
C09B0

Tgt Ion: 73 Resp: 1404
Ion Ratio Lower Upper
73 100
43 255.6 15.2 22.8#
57 18.9 17.1 25.7

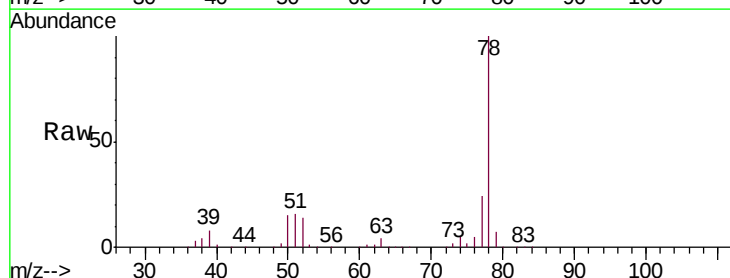


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

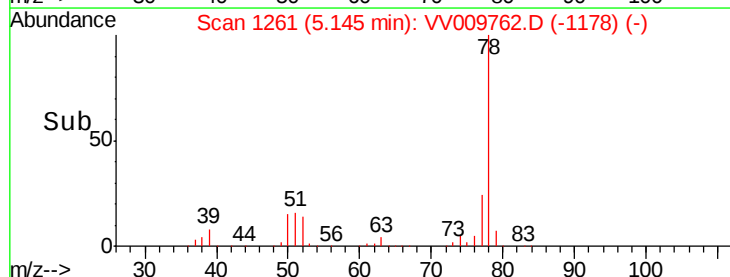
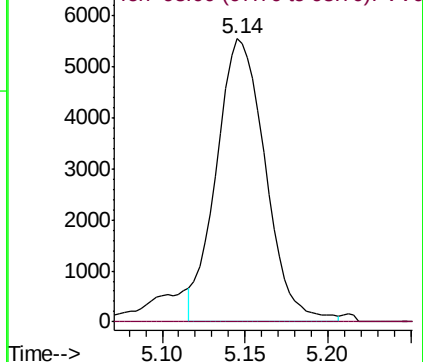


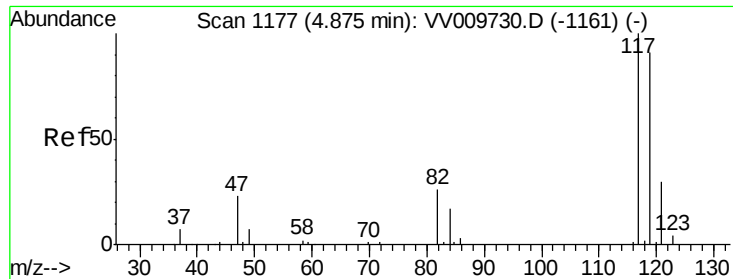
#27
1,2-Dichloroethane
Concen: 8.423 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. -0.03 min
Lab File: VV009762.D
Acq: 18 Mar 2019 16:35

Tgt Ion: 62 Resp: 11418
Ion Ratio Lower Upper
62 100
98 0.0 7.8 11.6#



Abundance Ion 62.00 (61.70 to 62.70): VV0
Ion 98.00 (97.70 to 98.70): VV0





#31

Carbon tetrachloride

Concen: 1.854 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV009762.D

Acq: 18 Mar 2019 16:35

Instrument :

MSVOA_V

ClientSampleId :

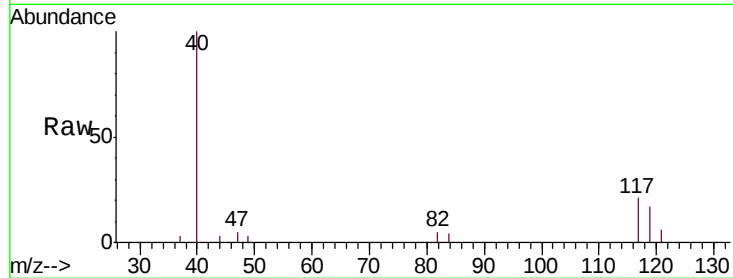
C09B0

Tgt Ion:117 Resp: 2420

Ion Ratio Lower Upper

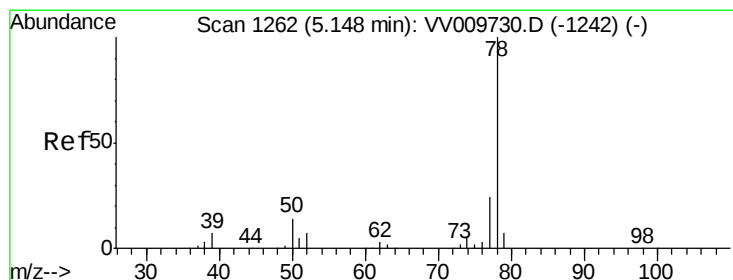
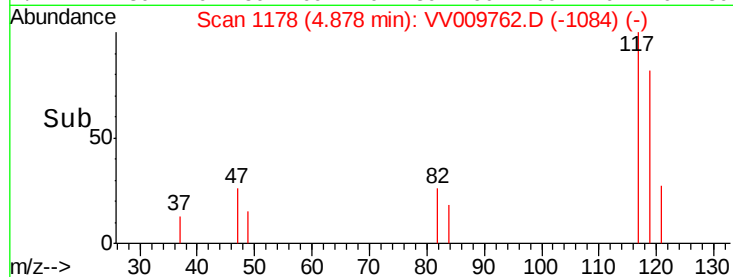
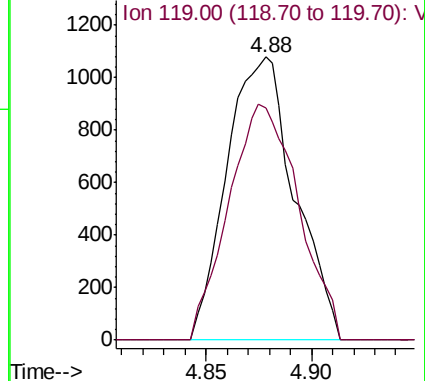
117 100

119 85.5 74.9 112.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 317.803 ug/L

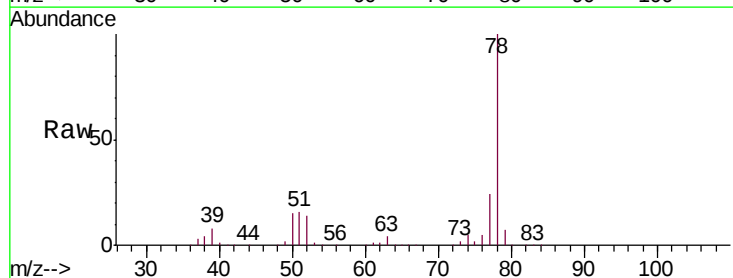
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

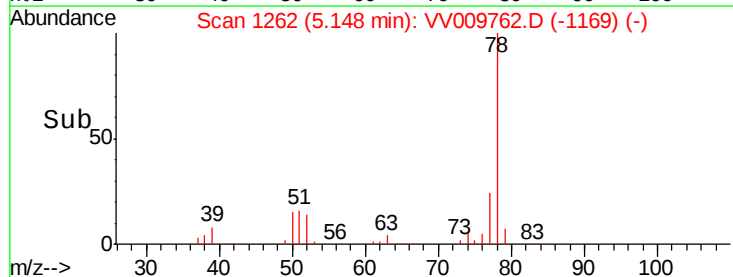
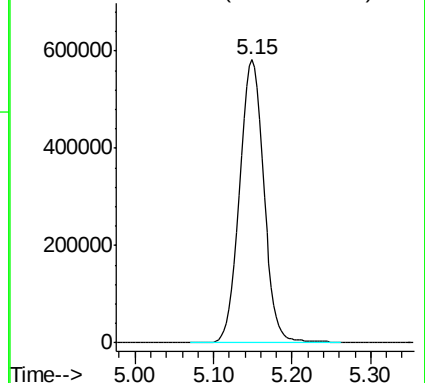
Lab File: VV009762.D

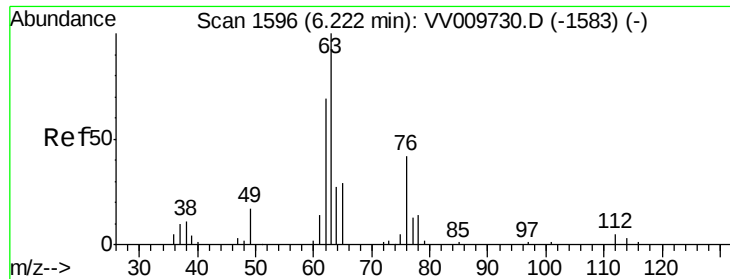
Acq: 18 Mar 2019 16:35

Tgt Ion: 78 Resp: 1259423



Abundance Ion 78.00 (77.70 to 78.70): VV0

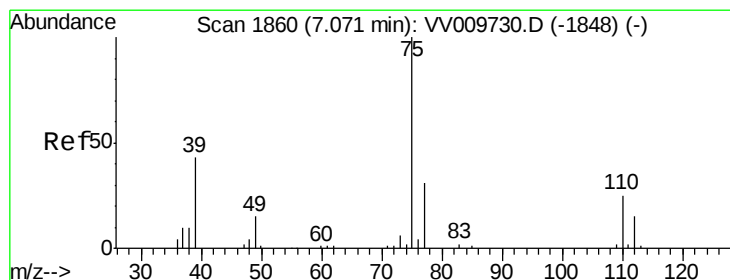
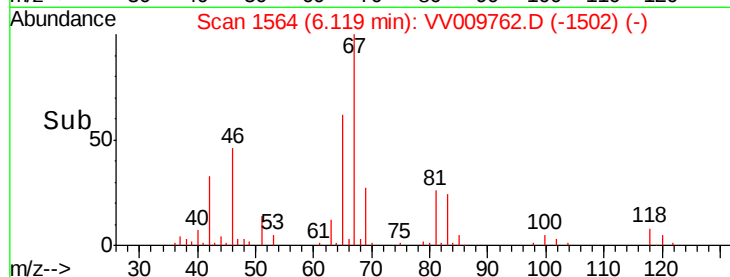
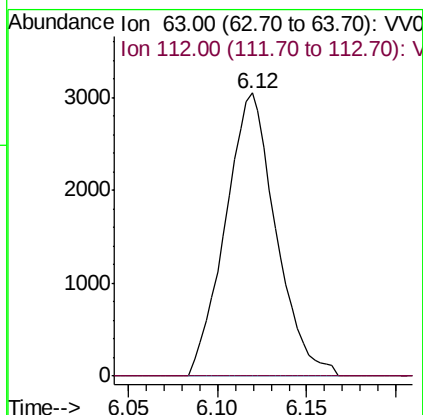
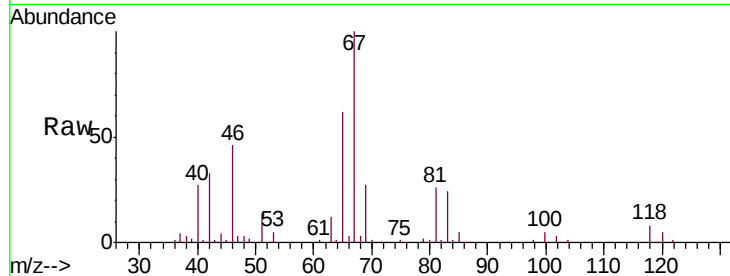




#37
 1,2-Dichloropropane
 Concen: 5.940 ug/L
 RT: 6.12 min Scan# 1564
 Delta R.T. -0.10 min
 Lab File: VV009762.D
 Acq: 18 Mar 2019 16:35

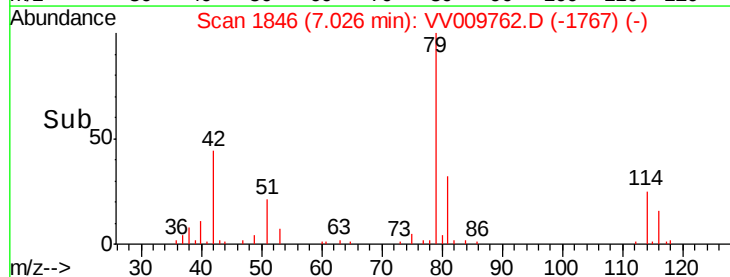
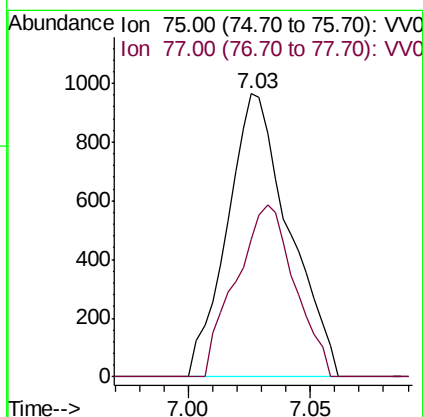
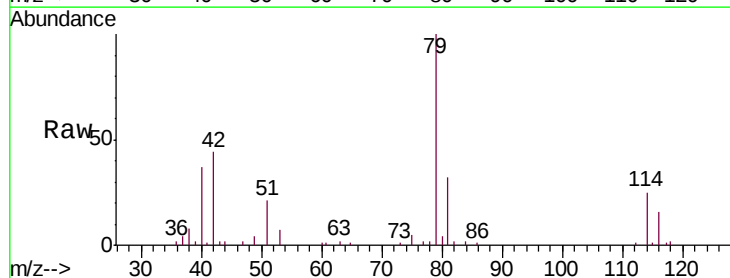
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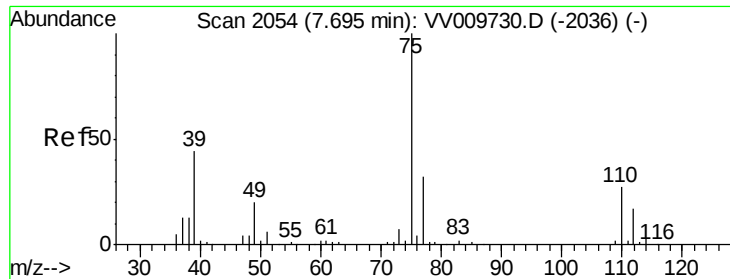
Tgt Ion: 63 Resp: 6003
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 1.099 ug/L
 RT: 7.03 min Scan# 1846
 Delta R.T. -0.04 min
 Lab File: VV009762.D
 Acq: 18 Mar 2019 16:35

Tgt Ion: 75 Resp: 1696
 Ion Ratio Lower Upper
 75 100
 77 48.8 22.4 41.6#





#44

trans-1,3-Dichloropropene

Concen: 0.879 ug/L

RT: 7.67 min Scan# 2045

Delta R.T. -0.03 min

Lab File: VV009762.D

Acq: 18 Mar 2019 16:35

Instrument :

MSVOA_V

ClientSampleId :

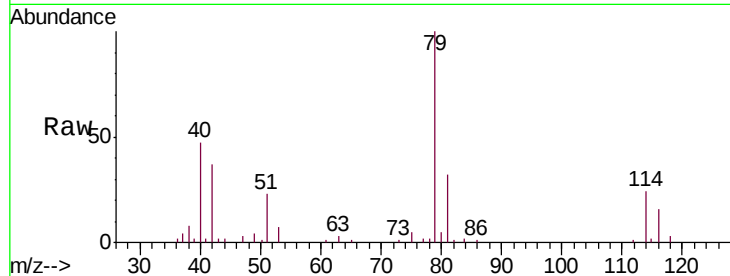
C09B0

Tgt Ion: 75 Resp: 1285

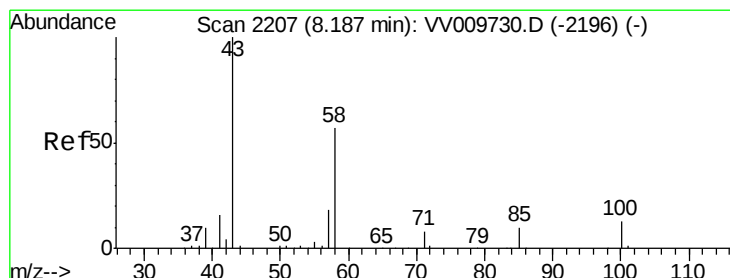
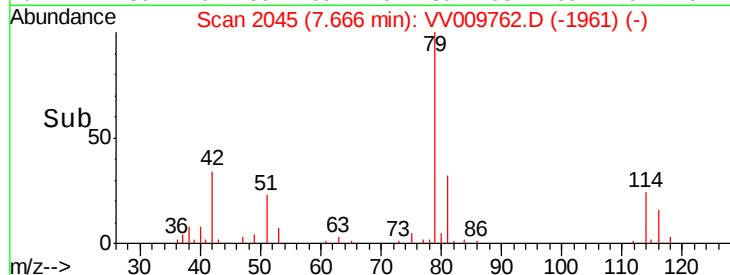
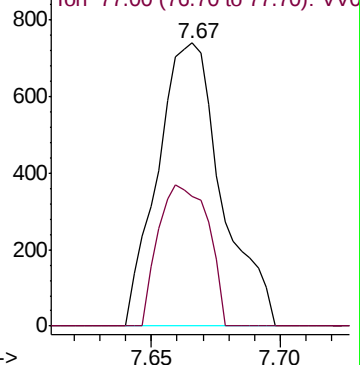
Ion Ratio Lower Upper

75 100

77 45.9 22.5 41.7#



Abundance Ion 75.00 (74.70 to 75.70): VV009730.D (-2036) (-)



#48

2-Hexanone

Concen: 5.444 ug/L

RT: 8.14 min Scan# 2191

Delta R.T. -0.05 min

Lab File: VV009762.D

Acq: 18 Mar 2019 16:35

Tgt Ion: 43 Resp: 5377

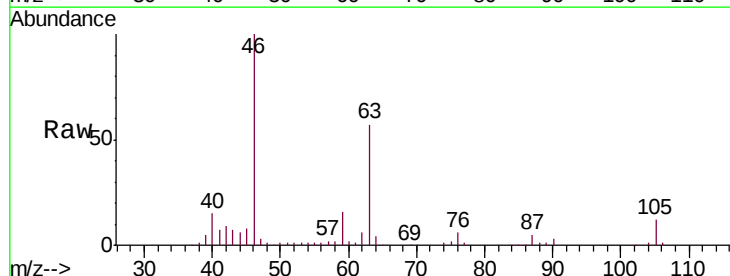
Ion Ratio Lower Upper

43 100

58 28.8 46.0 69.0#

57 27.6 14.8 22.2#

100 0.0 10.8 16.2#

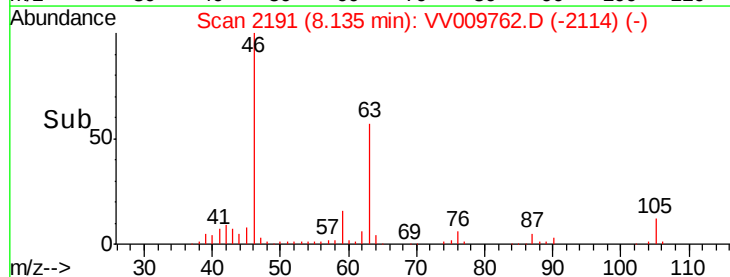
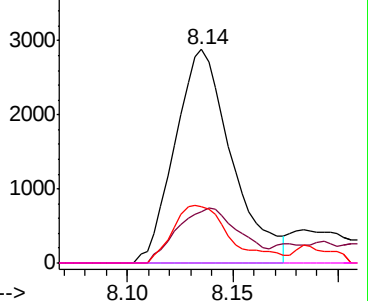


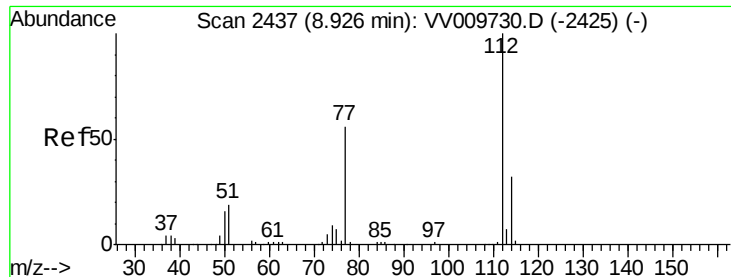
Abundance Ion 43.00 (42.70 to 43.70): VV009730.D (-2196) (-)

Ion 58.00 (57.70 to 58.70): VV009730.D (-2196) (-)

Ion 57.00 (56.70 to 57.70): VV009730.D (-2196) (-)

Ion 100.00 (99.70 to 100.70): VV009730.D (-2196) (-)





#51

Chlorobenzene

Concen: 2480.607 ug/L

RT: 8.94 min Scan# 2440

Delta R.T. 0.01 min

Lab File: VV009762.D

Acq: 18 Mar 2019 16:35

Instrument :

MSVOA_V

ClientSampled :

C09B0

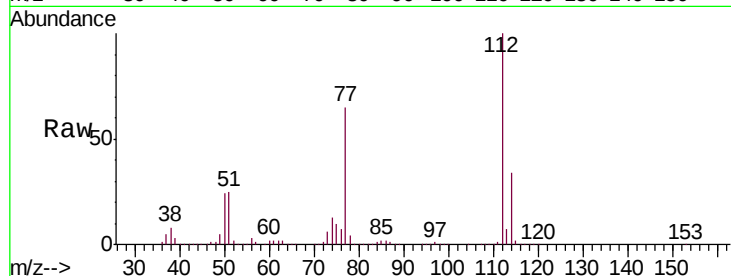
Tgt Ion:112 Resp: 7355542

Ion Ratio Lower Upper

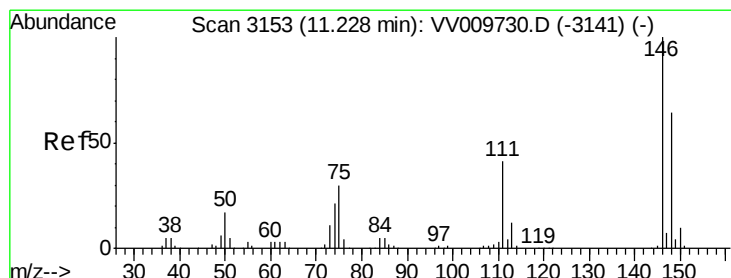
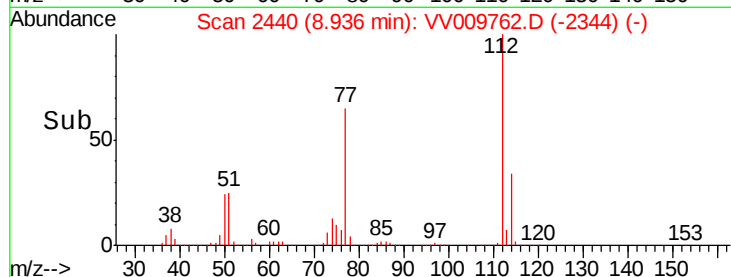
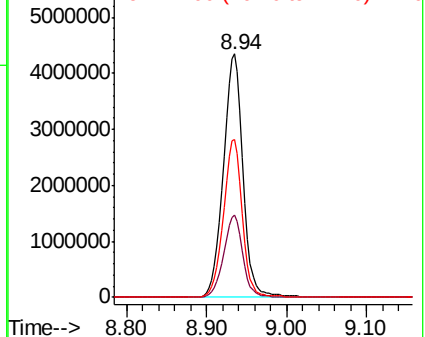
112 100

114 33.6 22.5 41.9

77 64.7 45.4 68.2



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V



#62

1,3-Dichlorobenzene

Concen: 207.279 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. 0.00 min

Lab File: VV009762.D

Acq: 18 Mar 2019 16:35

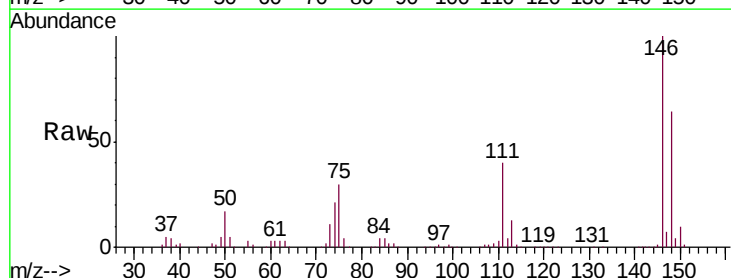
Tgt Ion:146 Resp: 499161

Ion Ratio Lower Upper

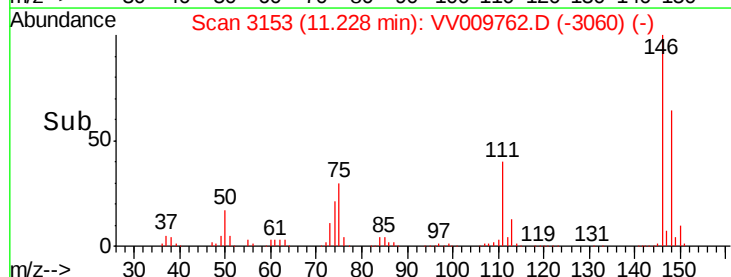
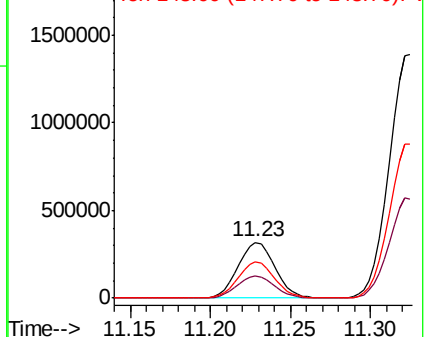
146 100

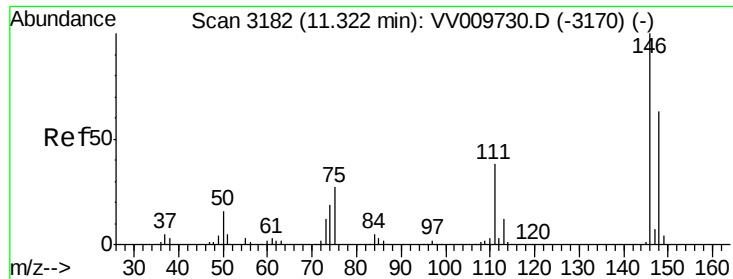
111 39.9 28.8 53.4

148 64.4 44.8 83.2



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

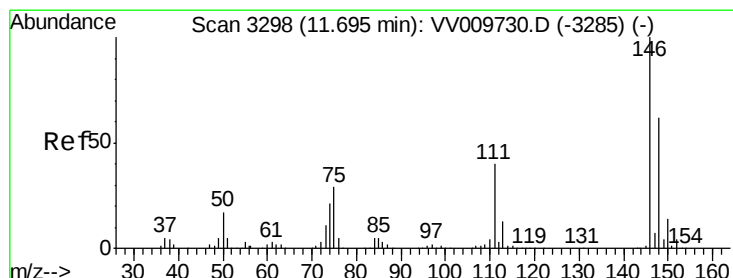
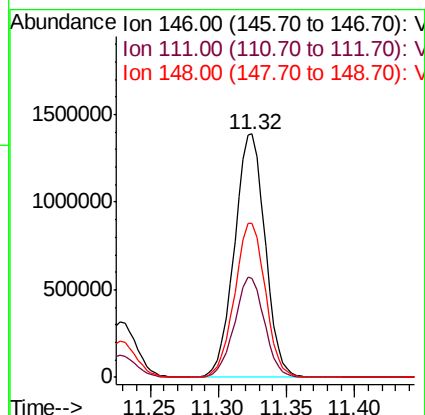
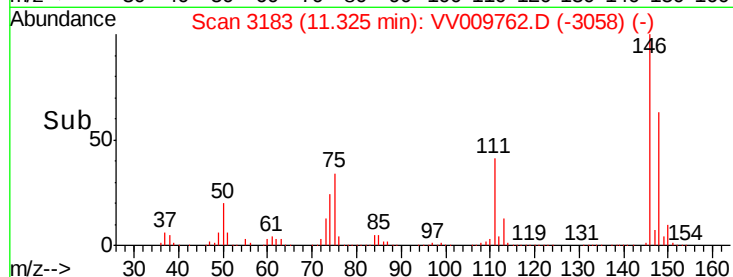
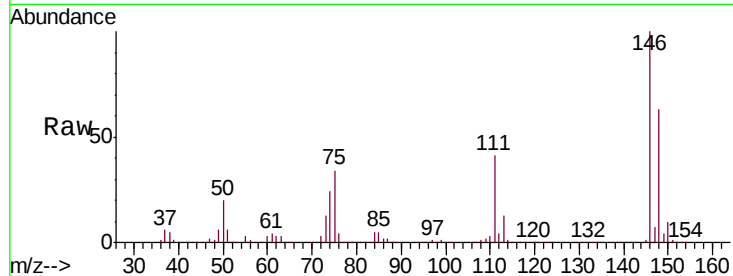




#63
 1,4-Dichlorobenzene
 Concen: 891.215 ug/L
 RT: 11.32 min Scan# 3183
 Delta R.T. 0.00 min
 Lab File: VV009762.D
 Acq: 18 Mar 2019 16:35

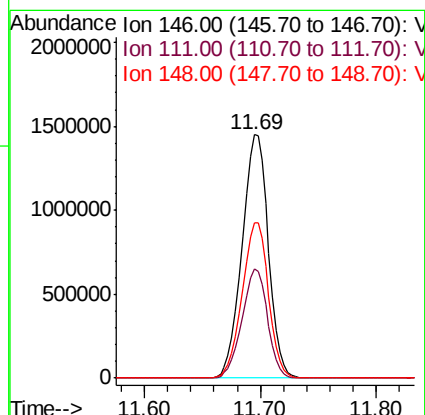
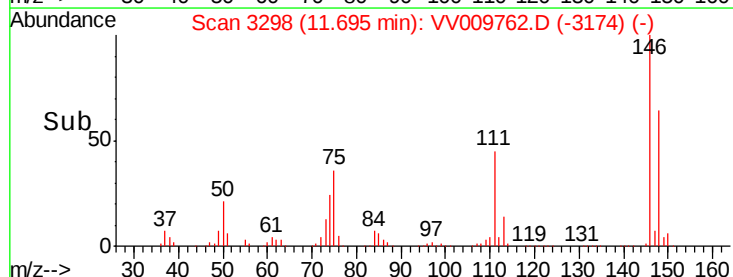
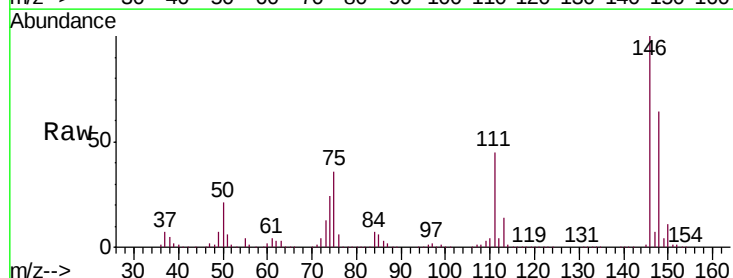
Instrument :
 MSVOA_V
 ClientSampleId :
 C09B0

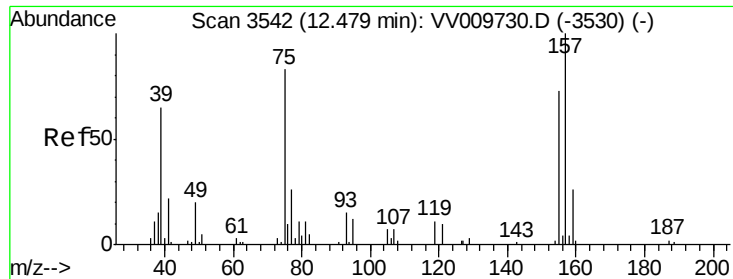
Tgt Ion:146 Resp: 2165198
 Ion Ratio Lower Upper
 146 100
 111 40.7 26.7 49.5
 148 63.5 44.3 82.3



#65
 1,2-Dichlorobenzene
 Concen: 925.707 ug/L
 RT: 11.69 min Scan# 3298
 Delta R.T. 0.00 min
 Lab File: VV009762.D
 Acq: 18 Mar 2019 16:35

Tgt Ion:146 Resp: 2274624
 Ion Ratio Lower Upper
 146 100
 111 44.9 32.2 48.4
 148 63.9 49.6 74.4





#66

1,2-Dibromo-3-chloropropane

Concen: 23.302 ug/L

RT: 12.44 min Scan# 3530

Delta R.T. -0.04 min

Lab File: VV009762.D

Acq: 18 Mar 2019 16:35

Instrument :

MSVOA_V

ClientSampleId :

C09B0

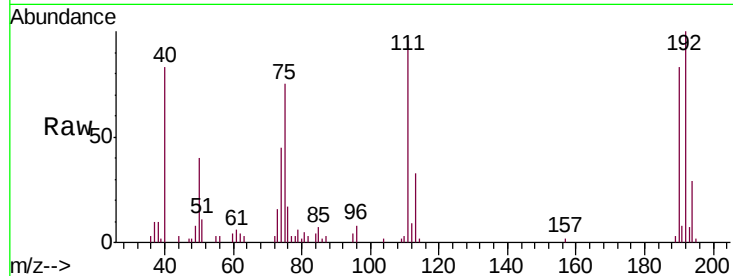
Tgt Ion: 75 Resp: 7953

Ion Ratio Lower Upper

75 100

155 0.0 70.3 105.5#

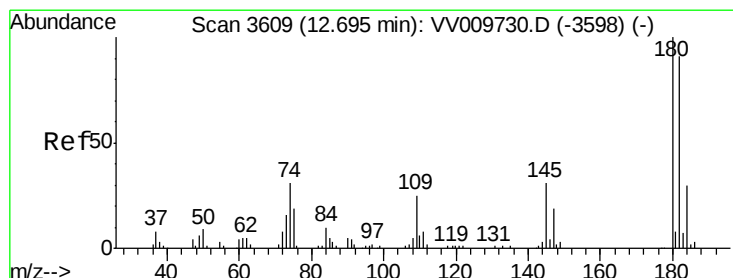
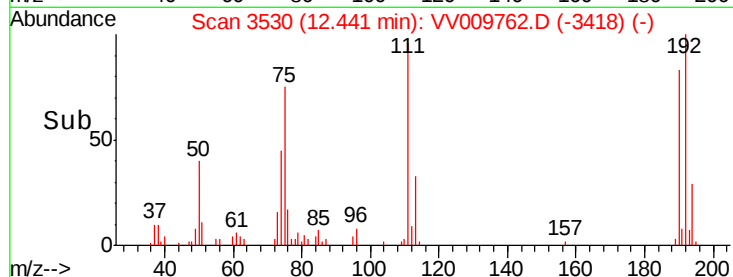
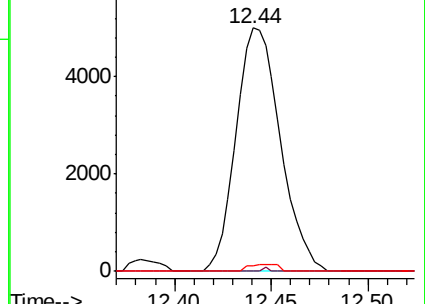
157 2.4 96.8 145.2#



Abundance Ion 75.00 (74.70 to 75.70): VV009762.D (-3418) (-)

Ion 155.00 (154.70 to 155.70): VV009762.D (-3418) (-)

Ion 157.00 (156.70 to 157.70): VV009762.D (-3418) (-)



#67

1,3,5-Trichlorobenzene

Concen: 2.170 ug/L

RT: 12.69 min Scan# 3609

Delta R.T. 0.00 min

Lab File: VV009762.D

Acq: 18 Mar 2019 16:35

Tgt Ion: 180 Resp: 3323

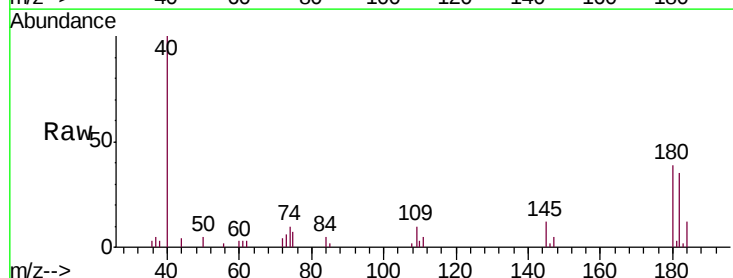
Ion Ratio Lower Upper

180 100

182 92.0 73.9 110.9

184 27.6 23.4 35.2

145 32.7 24.6 37.0

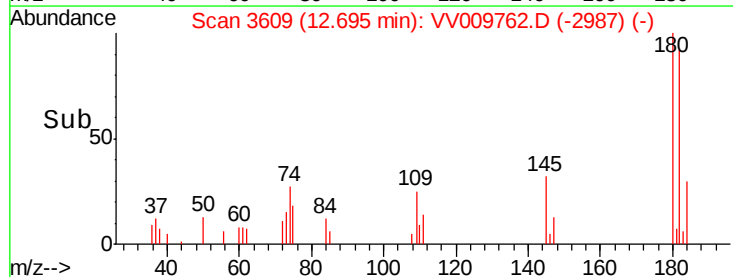
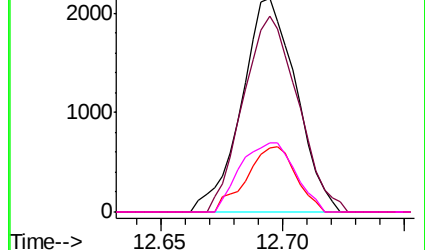


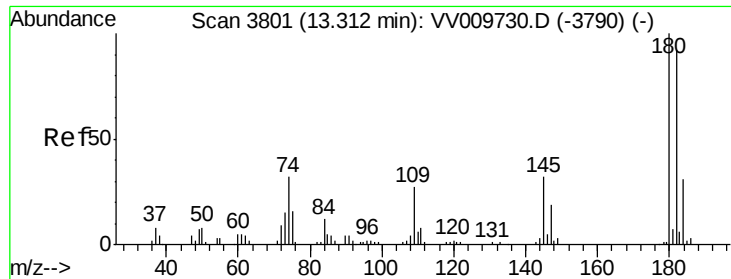
Abundance Ion 180.00 (179.70 to 180.70): VV009762.D (-2987) (-)

Ion 182.00 (181.70 to 182.70): VV009762.D (-2987) (-)

Ion 184.00 (183.70 to 184.70): VV009762.D (-2987) (-)

Ion 145.00 (144.70 to 145.70): VV009762.D (-2987) (-)

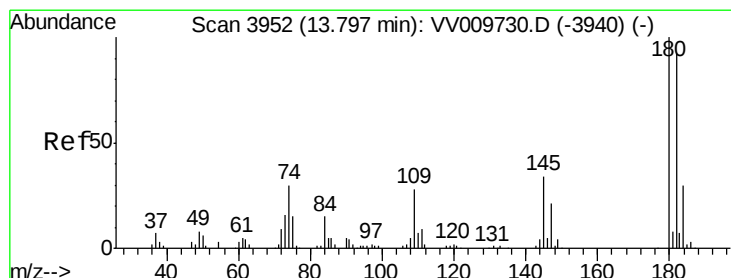
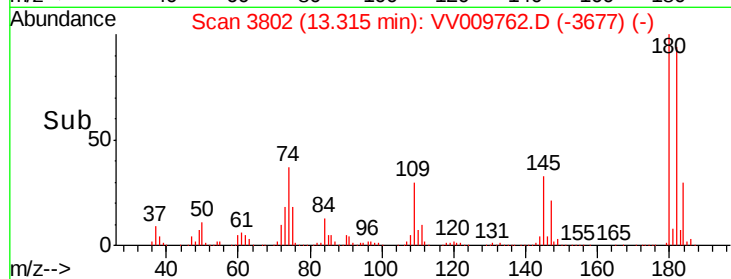
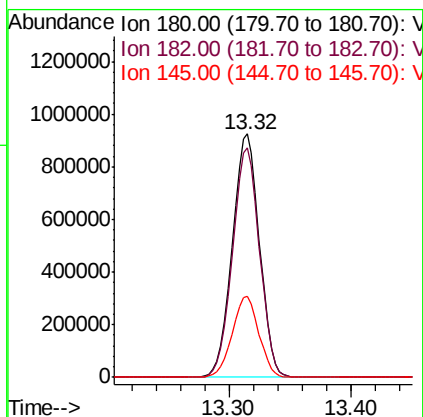
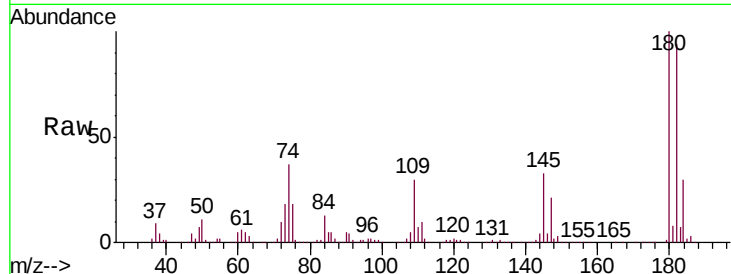




#68
 1,2,4-trichlorobenzene
 Concen: 1326.791 ug/L
 RT: 13.32 min Scan# 3802
 Delta R.T. 0.00 min
 Lab File: VV009762.D
 Acq: 18 Mar 2019 16:35

Instrument :
 MSVOA_V
 ClientSampleId :
 C09B0

Tgt Ion:180 Resp: 1424203
 Ion Ratio Lower Upper
 180 100
 182 94.3 75.7 113.5
 145 32.9 25.3 37.9



#70
 1,2,3-Trichlorobenzene
 Concen: 322.377 ug/L
 RT: 13.79 min Scan# 3951
 Delta R.T. 0.00 min
 Lab File: VV009762.D
 Acq: 18 Mar 2019 16:35

Tgt Ion:180 Resp: 346911
 Ion Ratio Lower Upper
 180 100
 182 94.3 73.3 109.9
 145 34.2 26.4 39.6

