

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052920\
 Data File : VV016334.D
 Acq On : 30 May 2020 01:05
 Operator : SY/MD
 Sample : L2826-07
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 30 03:09:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat May 30 03:05:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	85424	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	77656	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	32838	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	25076	4.57	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.40%
7) Chloroethane-d5	1.58	69	19892	4.13	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.60%
11) 1,1-Dichloroethene-d2	2.12	63	39549	3.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.80%
20) 2-Butanone-d5	3.94	46	70707	51.96	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.92%
24) Chloroform-d	4.38	84	49899	4.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.40%
26) 1,2-Dichloroethane-d4	5.06	65	27987	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.80%
32) Benzene-d6	5.07	84	98672	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.60%
36) 1,2-Dichloropropane-d6	6.10	67	30804	5.18	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.60%
41) Toluene-d8	7.34	98	89966	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.20%
45) trans-1,3-Dichloropropene-	7.65	79	9898	4.46	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.20%
48) 2-Hexanone-d5	8.13	63	55512	54.56	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	109.12%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	20182	4.59	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.80%
65) 1,2-Dichlorobenzene-d4	11.65	152	27156	4.95	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.25	50	5040	0.613	ug/L	99
5) Vinyl chloride	1.32	62	2265	0.303	ug/L #	27
6) Bromomethane	1.53	94	618	0.147	ug/L	94
8) Chloroethane	1.44	64	81328	19.457	ug/L #	51
12) 1,1-Dichloroethene	2.13	96	2357	0.468	ug/L #	1
13) Acetone	2.22	43	965	1.146	ug/L #	51
15) Methyl Acetate	2.46	43	3604	1.674	ug/L #	86
18) trans-1,2-Dichloroethene	2.78	96	1888	0.342	ug/L	90
19) 1,1-Dichloroethane	3.21	63	1373	0.131	ug/L #	88
22) cis-1,2-Dichloroethene	3.94	96	144048	22.089	ug/L	97
25) Chloroform	4.41	83	1591	0.144	ug/L	96
27) 1,2-Dichloroethane	5.08	62	741	0.102	ug/L #	79
33) Benzene	5.13	78	1433	0.064	ug/L	100
34) Trichloroethene	5.94	95	524315	90.063	ug/L	98
35) Methylcyclohexane	6.09	83	7460	0.760	ug/L #	16
37) 1,2-Dichloropropane	6.10	63	3768	0.687	ug/L #	88
39) cis-1,3-Dichloropropene	7.01	75	850	0.110	ug/L	88

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat May 30 03:05:25 2020
Response via : Initial Calibration

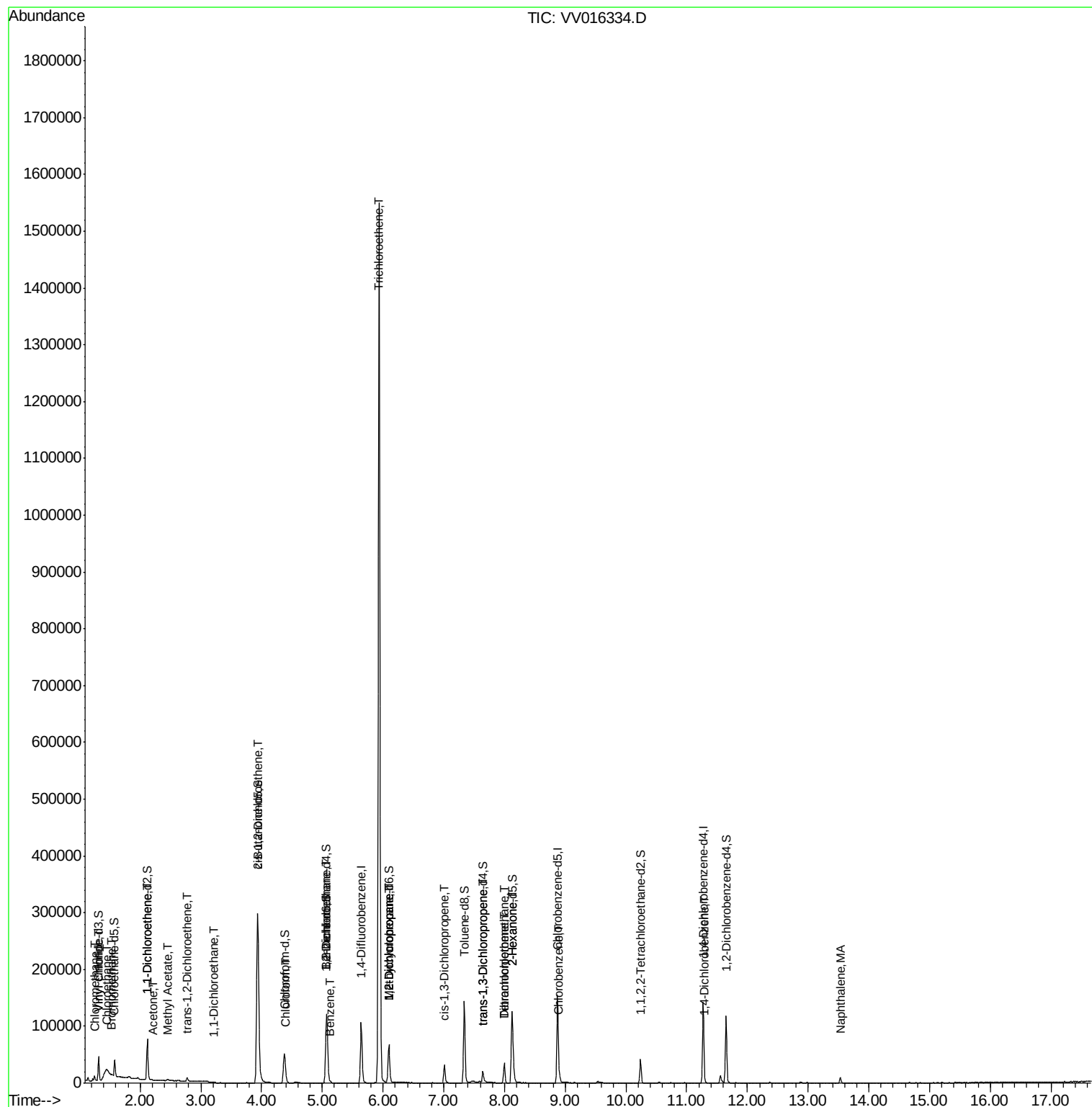
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) trans-1,3-Dichloropropene	7.64	75	418	0.065	ug/L	98
49) Tetrachloroethene	8.00	164	7033	1.683	ug/L	96
50) 2-Hexanone	8.13	43	7689	3.233	ug/L #	68
51) Dibromochloromethane	8.00	129	7003	1.834	ug/L #	10
53) Chlorobenzene	8.90	112	5601	0.372	ug/L	97
64) 1,4-Dichlorobenzene	11.30	146	602	0.059	ug/L	89
70) Naphthalene	13.53	128	7318	0.538	ug/L #	95

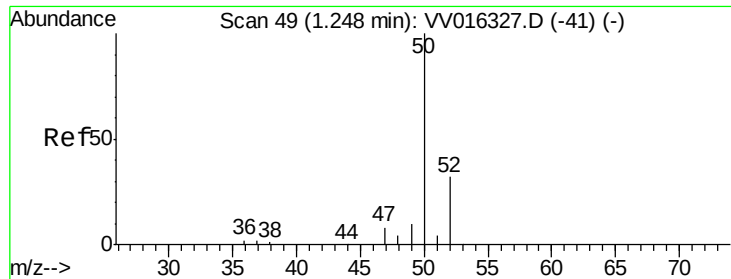
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.613 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV016334.D

Acq: 30 May 2020 01:05

Instrument :

MSVOA_V

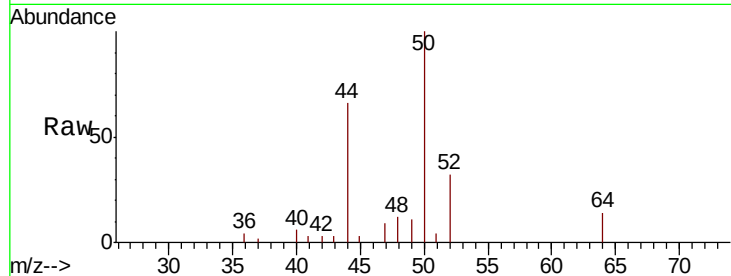
ClientSampled :

Tot Ion: 50 Resp: 5040

Ion Ratio Lower Upper

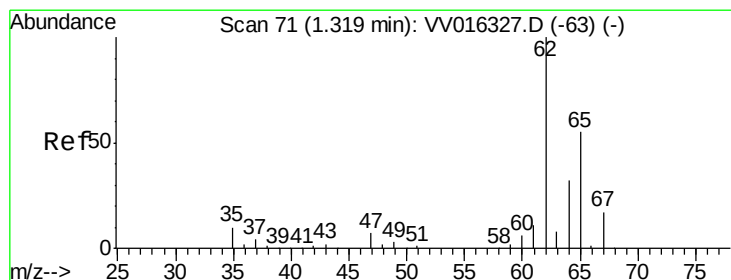
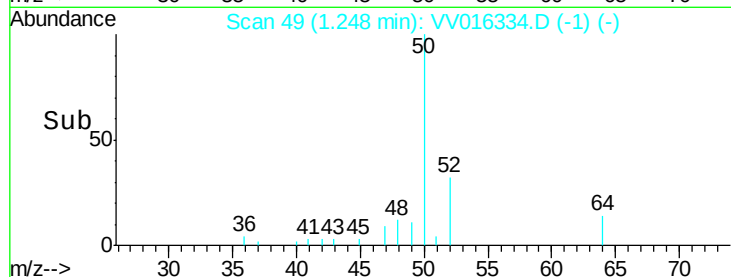
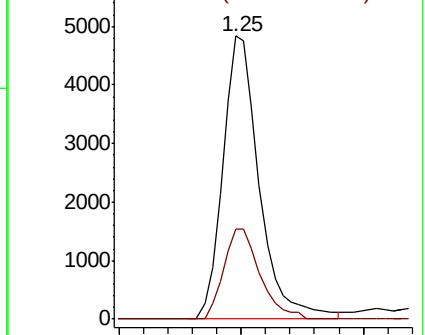
50 100

52 31.9 22.5 41.9



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#5

Vinyl chloride

Concen: 0.303 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV016334.D

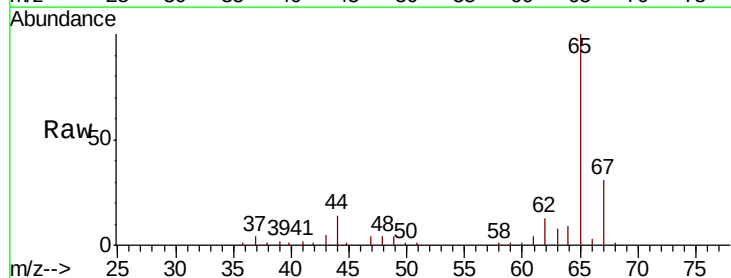
Acq: 30 May 2020 01:05

Tgt Ion: 62 Resp: 2265

Ion Ratio Lower Upper

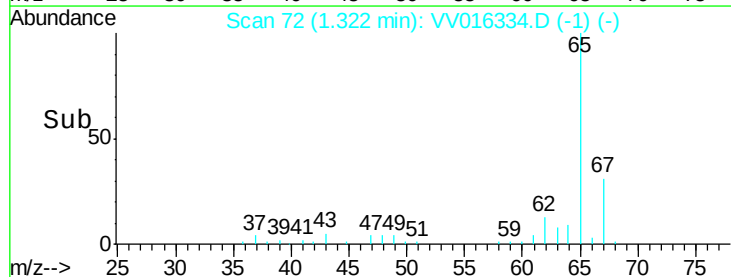
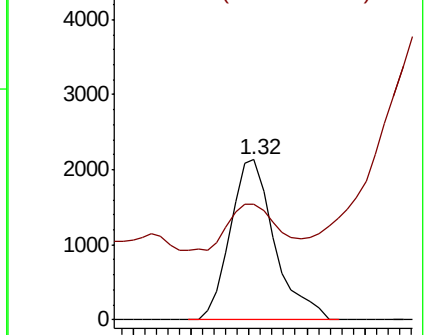
62 100

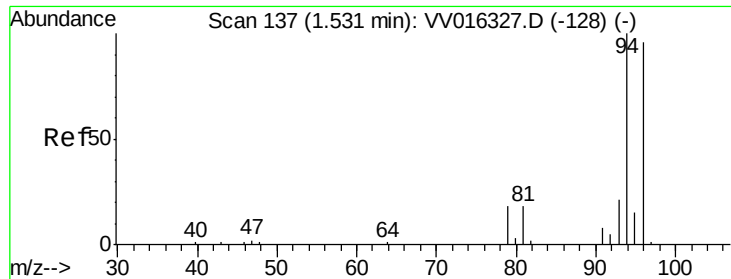
64 72.2 22.1 41.1#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

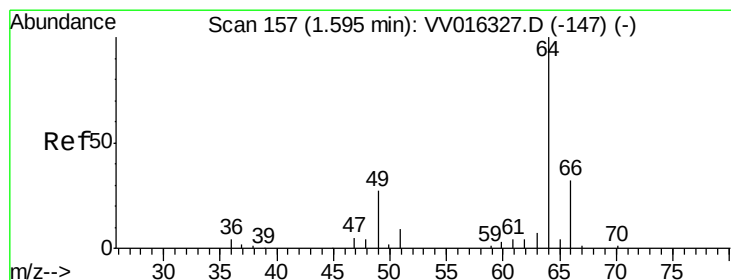
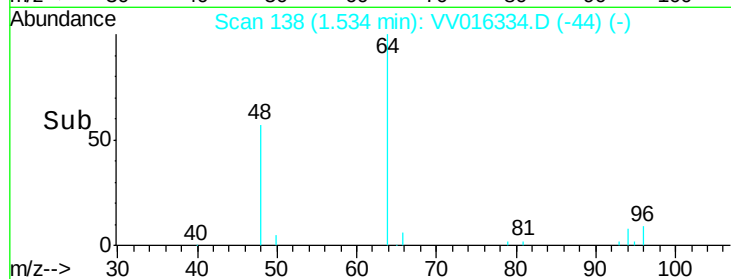
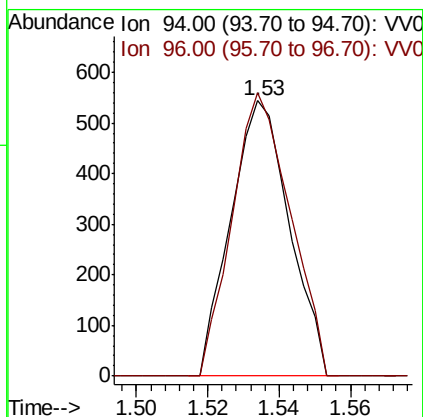
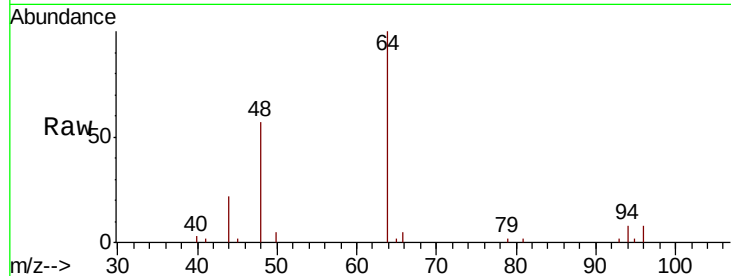




#6
Bromomethane
Concen: 0.147 ug/L
RT: 1.53 min Scan# 138
Delta R.T. 0.00 min
Lab File: VV016334.D
Acq: 30 May 2020 01:05

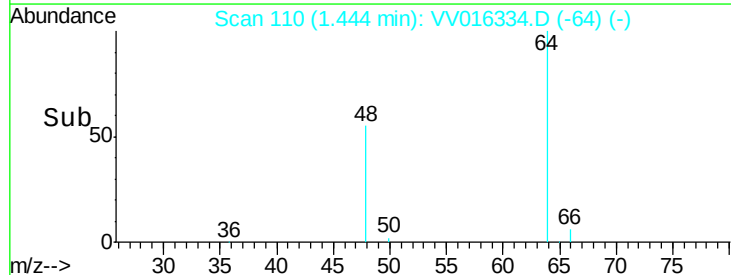
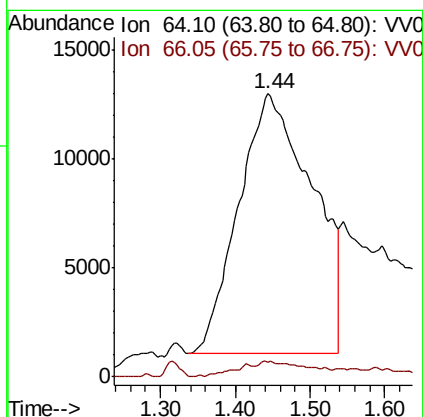
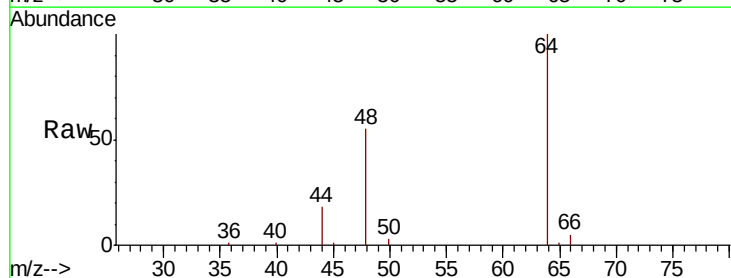
Instrument :
MSVOA_V
ClientSampleId :

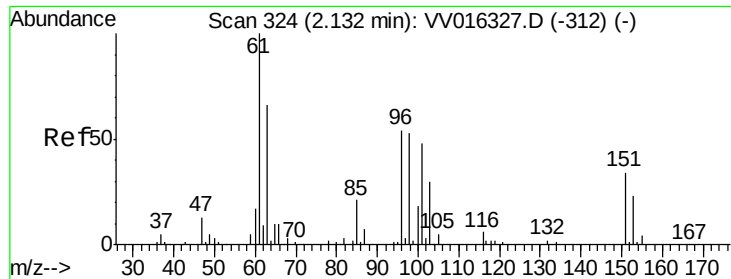
Tot Ion: 94 Resp: 618
Ion Ratio Lower Upper
94 100
96 102.8 67.7 125.7



#8
Chloroethane
Concen: 19.457 ug/L
RT: 1.44 min Scan# 110
Delta R.T. -0.15 min
Lab File: VV016334.D
Acq: 30 May 2020 01:05

Tgt Ion: 64 Resp: 81328
Ion Ratio Lower Upper
64 100
66 5.4 22.9 42.5#

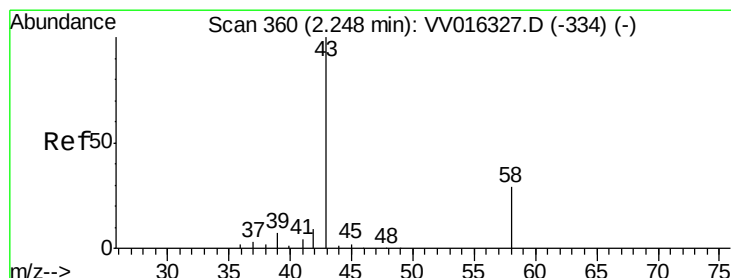
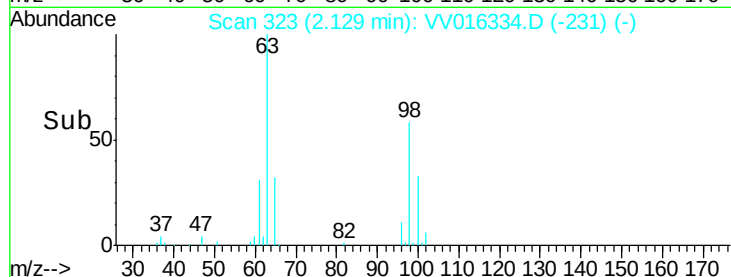
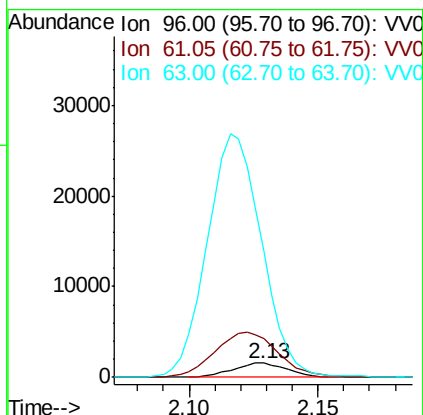
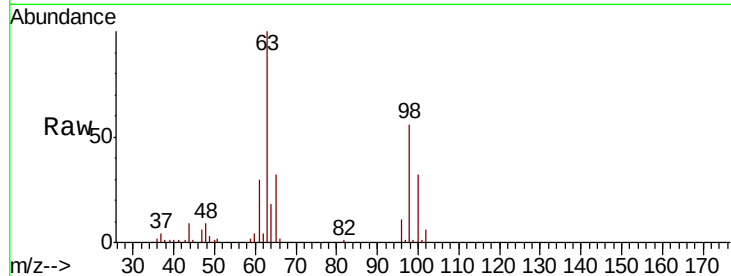




#12
 1,1-Dichloroethene
 Concen: 0.468 ug/L
 RT: 2.13 min Scan# 323
 Delta R.T. -0.00 min
 Lab File: VV016334.D
 Acq: 30 May 2020 01:05

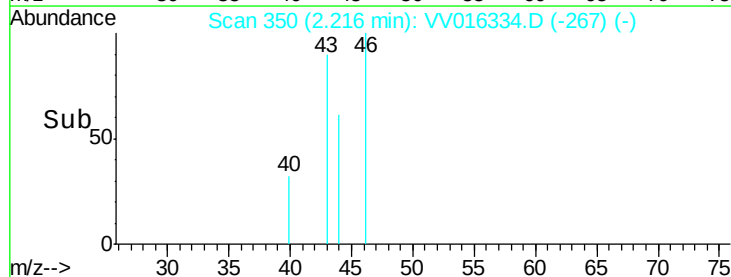
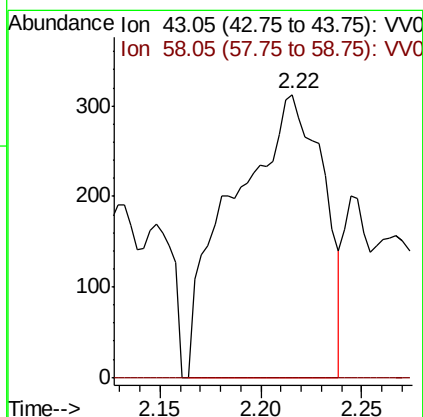
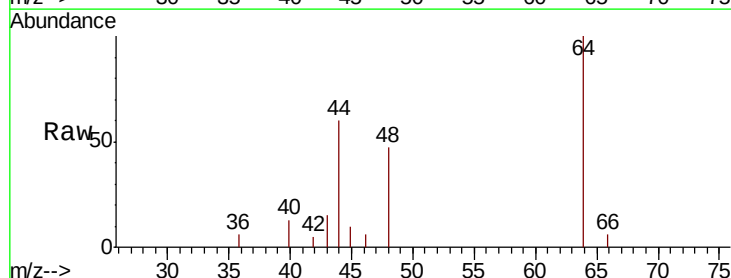
Instrument :
 MSVOA_V
 ClientSampleId :

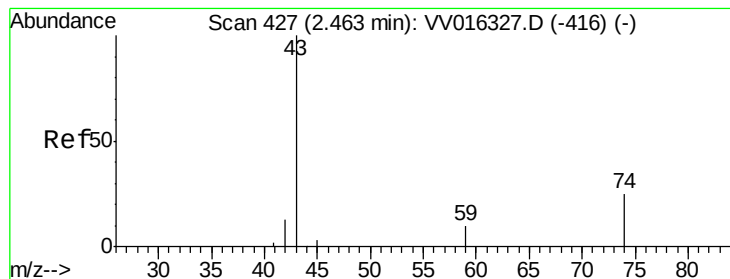
Tot Ion: 96 Resp: 2357
 Ion Ratio Lower Upper
 96 100
 61 274.7 124.9 231.9#
 63 903.3 80.4 149.2#



#13
 Acetone
 Concen: 1.146 ug/L
 RT: 2.22 min Scan# 350
 Delta R.T. -0.03 min
 Lab File: VV016334.D
 Acq: 30 May 2020 01:05

Tgt Ion: 43 Resp: 965
 Ion Ratio Lower Upper
 43 100
 58 0.0 0.0 48.8





#15

Methvl Acetate

Concen: 1.674 ug/L

RT: 2.46 min Scan# 425

Delta R.T. -0.01 min

Lab File: VV016334.D

Acq: 30 May 2020 01:05

Instrument :

MSVOA_V

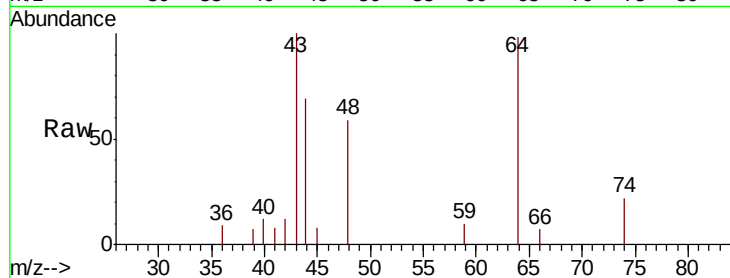
ClientSampleId :

Tot Ion: 43 Resp: 3604

Ion Ratio Lower Upper

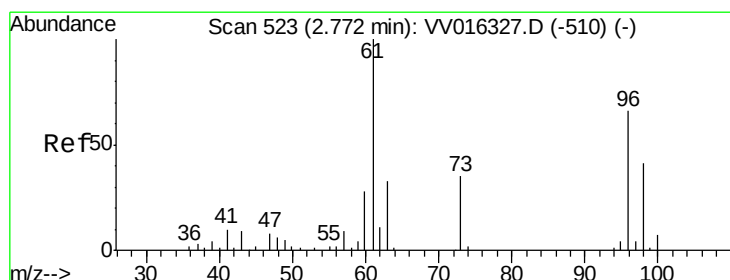
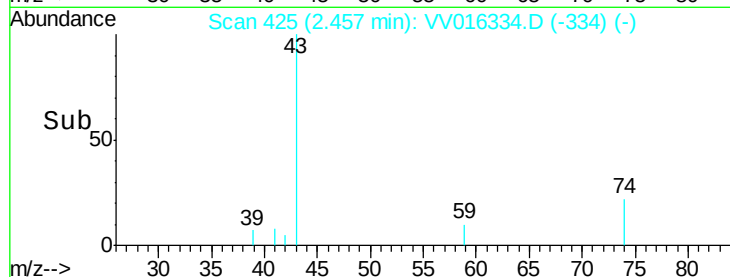
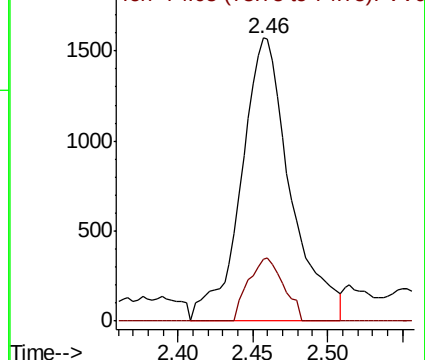
43 100

74 15.9 18.1 27.1#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#18

trans-1,2-Dichloroethene

Concen: 0.342 ug/L

RT: 2.78 min Scan# 524

Delta R.T. 0.00 min

Lab File: VV016334.D

Acq: 30 May 2020 01:05

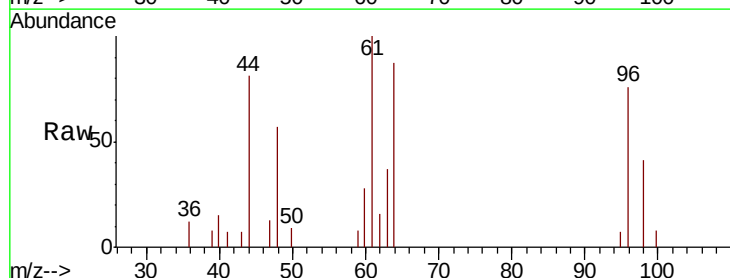
Tgt Ion: 96 Resp: 1888

Ion Ratio Lower Upper

96 100

61 130.8 99.8 185.4

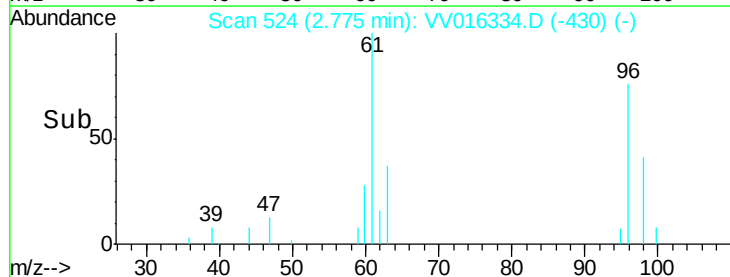
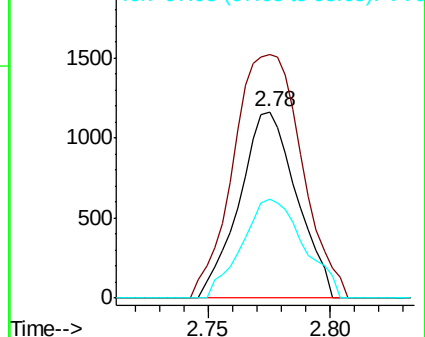
98 53.2 44.0 81.6

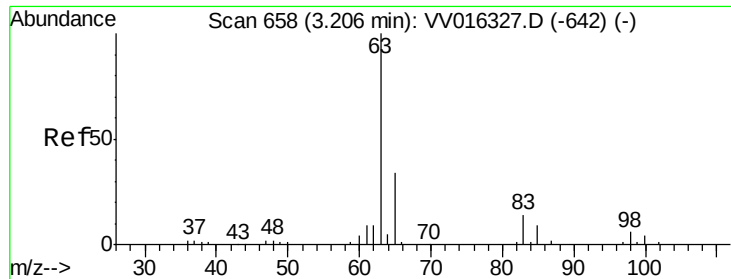


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0

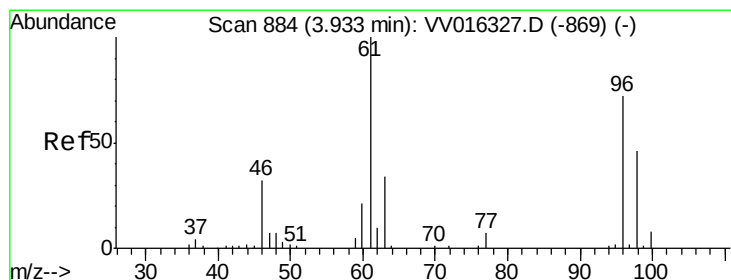
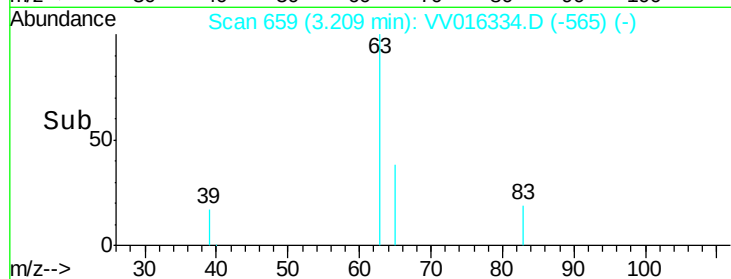
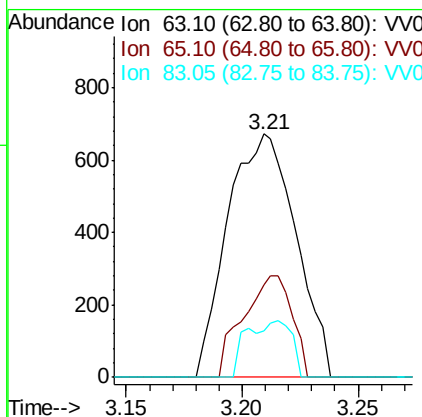
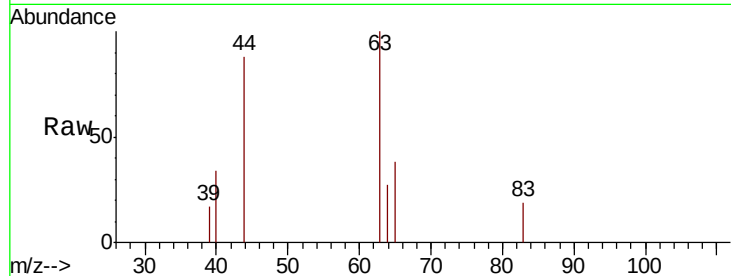




#19
 1,1-Dichloroethane
 Concen: 0.131 ug/L
 RT: 3.21 min Scan# 659
 Delta R.T. 0.00 min
 Lab File: VV016334.D
 Acq: 30 May 2020 01:05

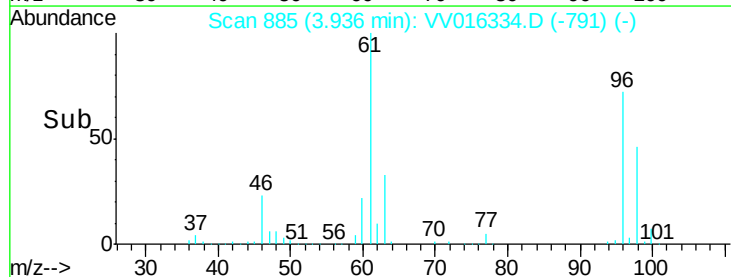
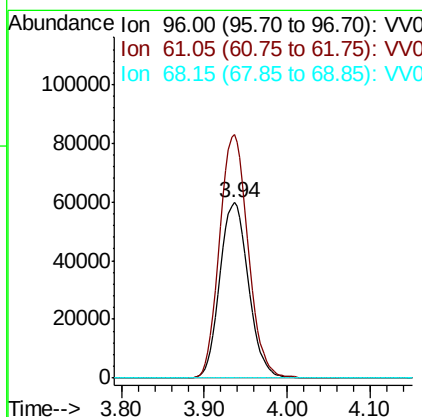
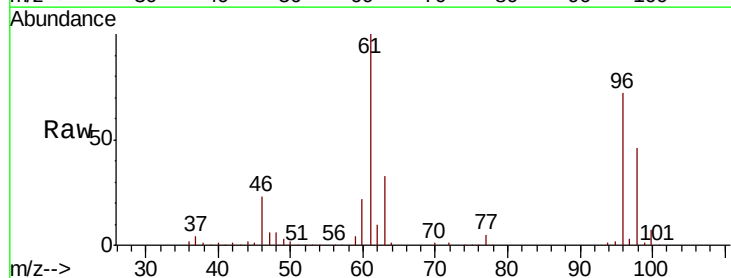
Instrument :
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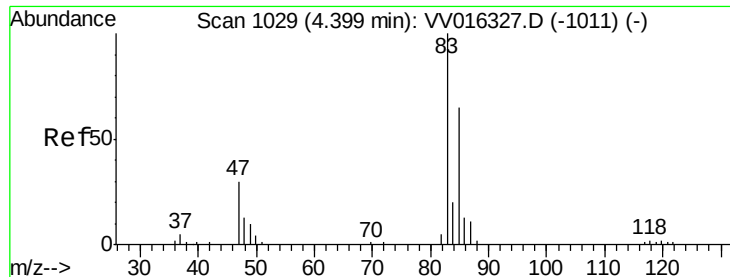
Tot Ion: 63 Resp: 1373
 Ion Ratio Lower Upper
 63 100
 65 37.8 22.3 41.5
 83 18.9 9.4 17.4#



#22
 cis-1,2-Dichloroethene
 Concen: 22.089 ug/L
 RT: 3.94 min Scan# 885
 Delta R.T. 0.00 min
 Lab File: VV016334.D
 Acq: 30 May 2020 01:05

Tgt Ion: 96 Resp: 144048
 Ion Ratio Lower Upper
 96 100
 61 138.9 99.7 185.1
 68 0.0 0.0 0.0

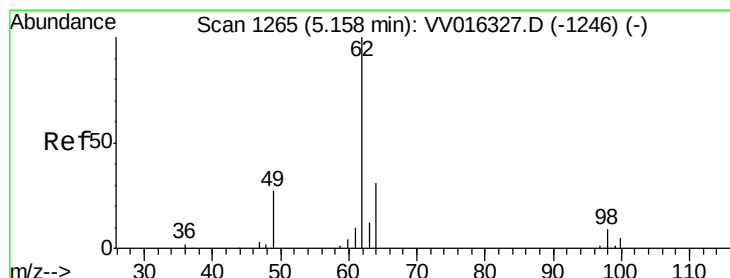
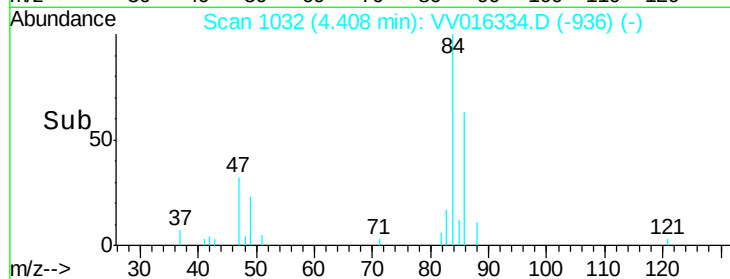
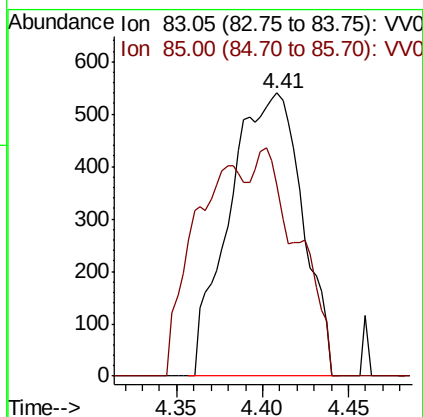
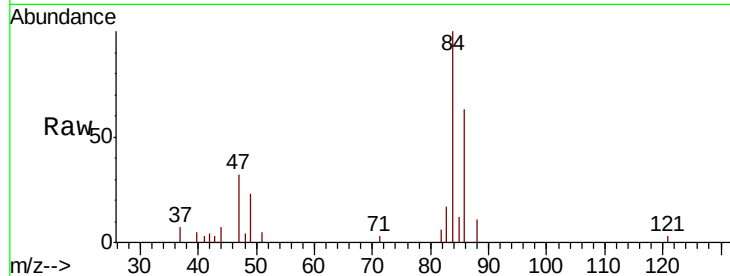




#25
Chloroform
Concen: 0.144 ug/L
RT: 4.41 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VV016334.D
Acq: 30 May 2020 01:05

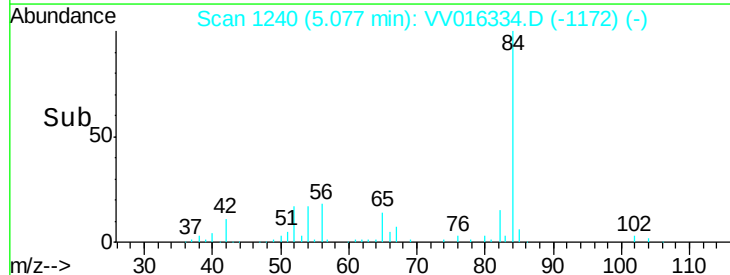
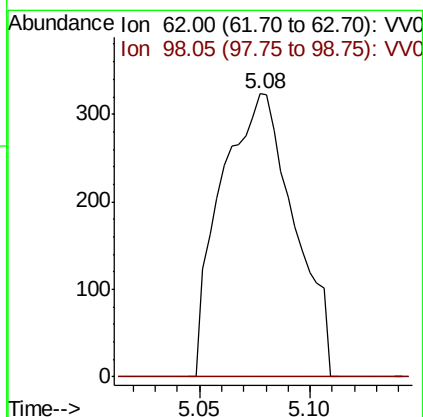
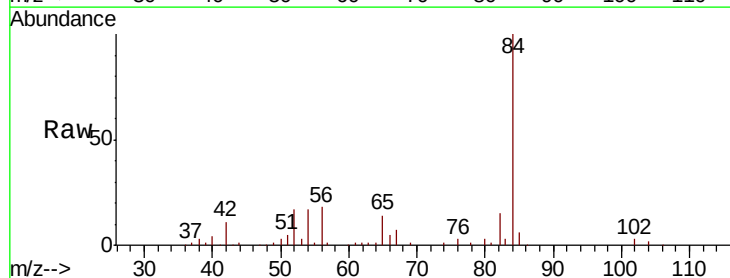
Instrument :
MSVOA_V
ClientSampled :

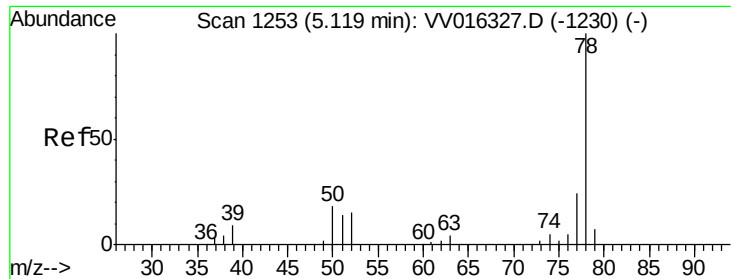
Tot Ion: 83 Resp: 1591
Ion Ratio Lower Upper
83 100
85 67.4 45.1 83.7



#27
1,2-Dichloroethane
Concen: 0.102 ug/L
RT: 5.08 min Scan# 1240
Delta R.T. -0.08 min
Lab File: VV016334.D
Acq: 30 May 2020 01:05

Tgt Ion: 62 Resp: 741
Ion Ratio Lower Upper
62 100
98 0.0 5.7 8.5#

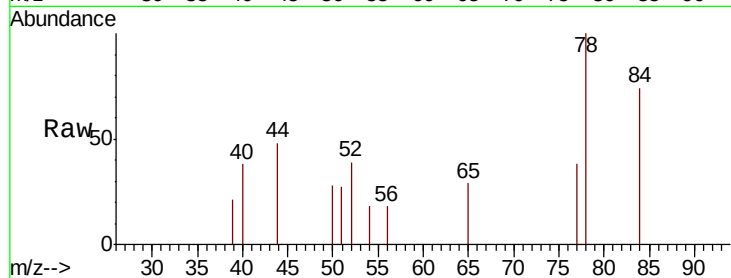




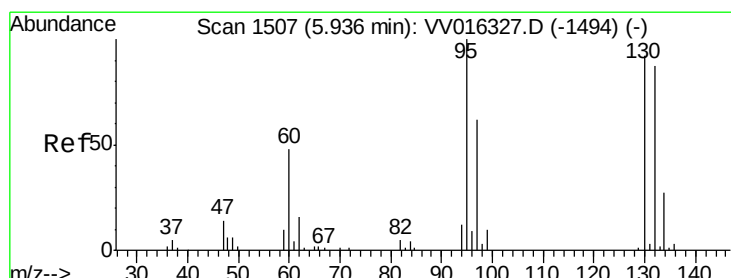
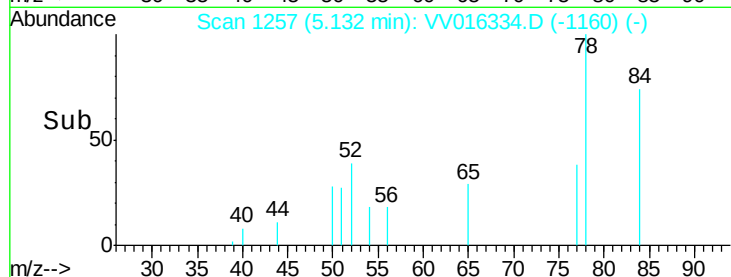
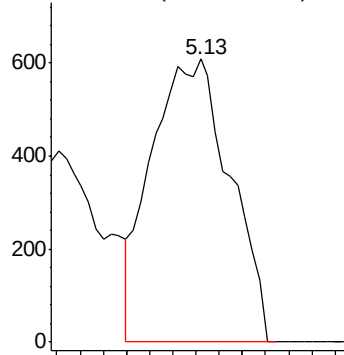
#33
Benzene
Concen: 0.064 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. 0.01 min
Lab File: VV016334.D
Acq: 30 May 2020 01:05

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 78 Resp: 1433



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34
Trichloroethene
Concen: 90.063 ug/L
RT: 5.94 min Scan# 1507
Delta R.T. -0.00 min
Lab File: VV016334.D
Acq: 30 May 2020 01:05

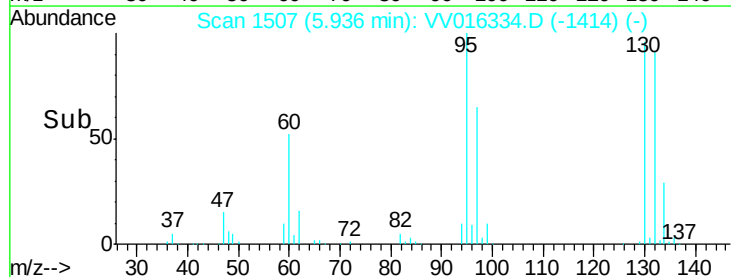
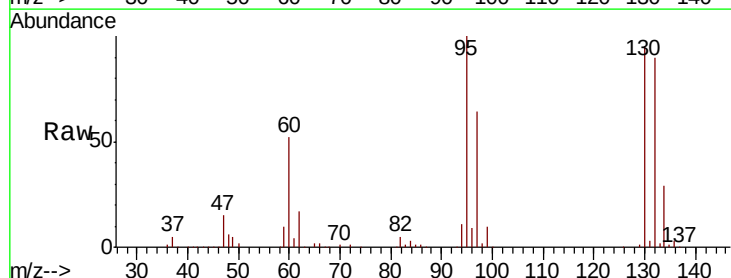
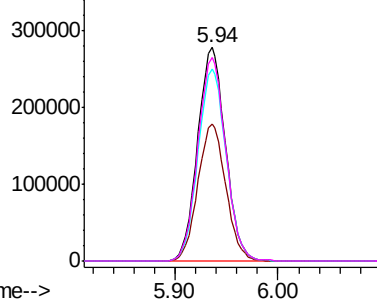
Tgt Ion: 95 Resp: 524315
Ion Ratio Lower Upper
95 100
97 64.3 43.6 81.0
132 90.1 63.9 118.7
130 95.2 65.2 121.0

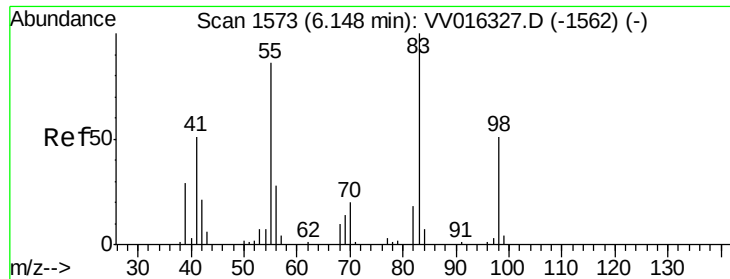
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0





#35

Methylvlcyclohexane

Concen: 0.760 ug/L

RT: 6.09 min Scan# 1556

Delta R.T. -0.05 min

Lab File: VV016334.D

Acq: 30 May 2020 01:05

Instrument :

MSVOA_V

ClientSampleId :

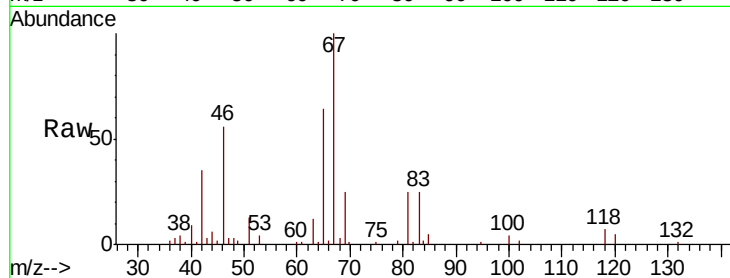
Tot Ion: 83 Resp: 7460

Ion Ratio Lower Upper

83 100

55 0.0 65.4 98.0#

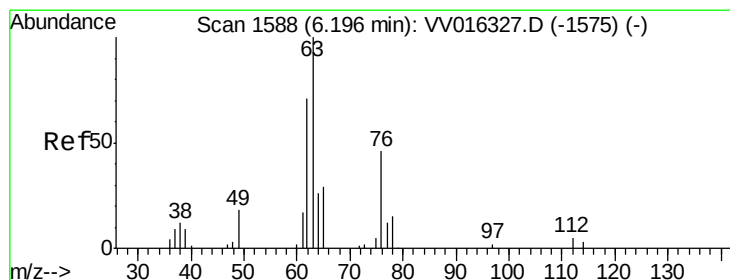
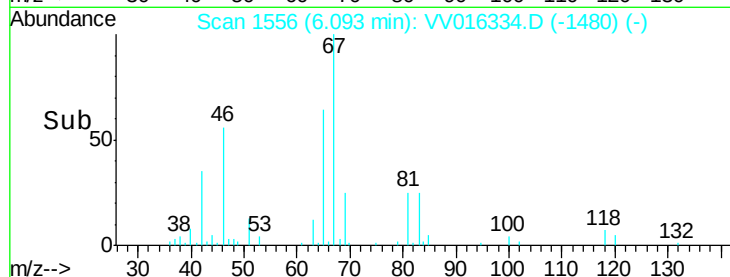
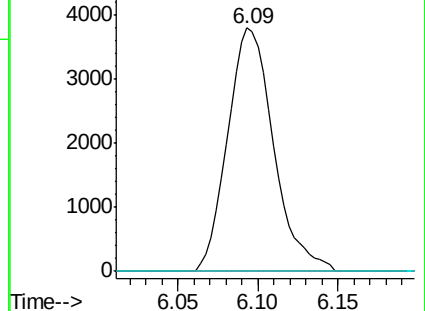
98 0.0 39.3 58.9#



Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0



#37

1,2-Dichloropropane

Concen: 0.687 ug/L

RT: 6.10 min Scan# 1557

Delta R.T. -0.10 min

Lab File: VV016334.D

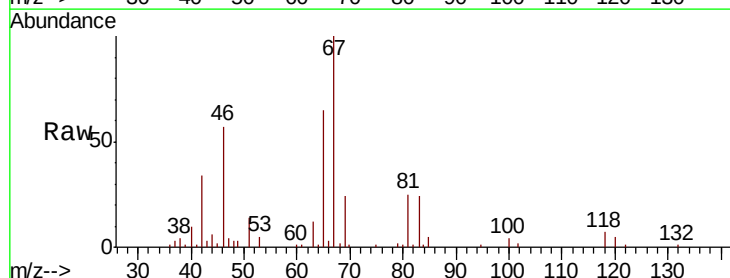
Acq: 30 May 2020 01:05

Tgt Ion: 63 Resp: 3768

Ion Ratio Lower Upper

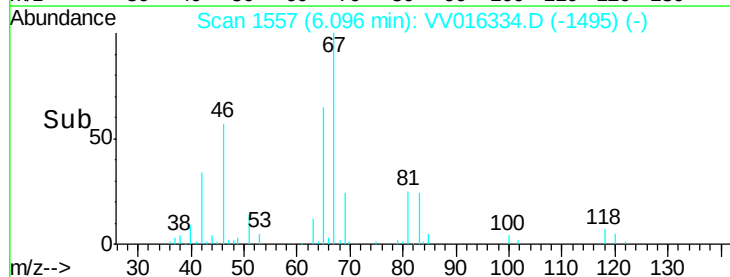
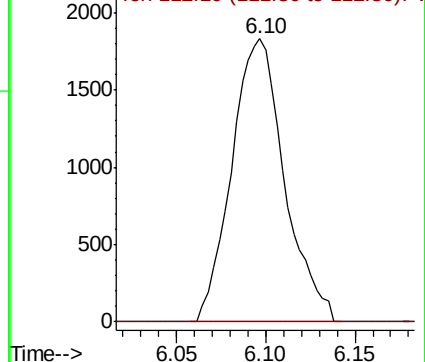
63 100

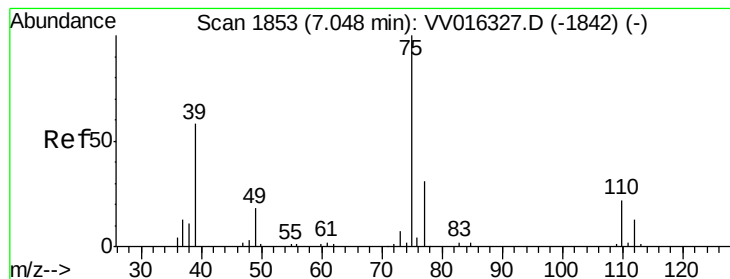
112 0.0 3.1 4.7#



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 112.10 (111.80 to 112.80): V



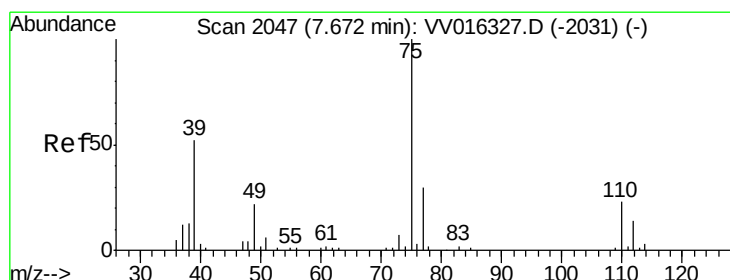
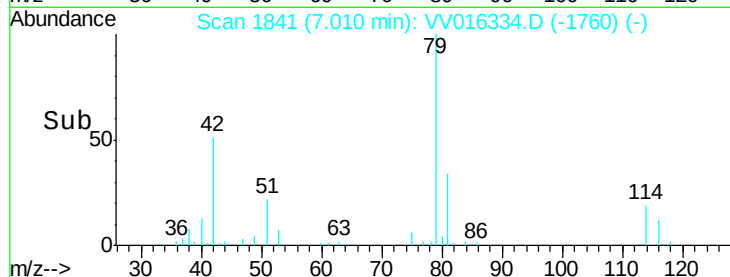
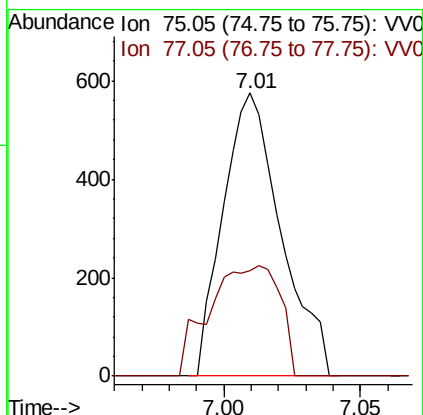
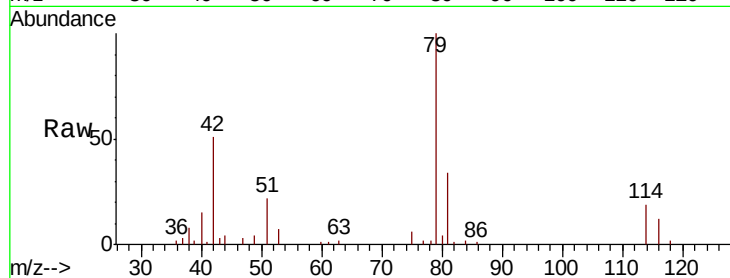


#39

cis-1,3-Dichloropropene
Concen: 0.110 ug/L
RT: 7.01 min Scan# 1841
Delta R.T. -0.04 min
Lab File: VV016334.D
Acq: 30 May 2020 01:05

Instrument :
MSVOA_V
ClientSampleId :

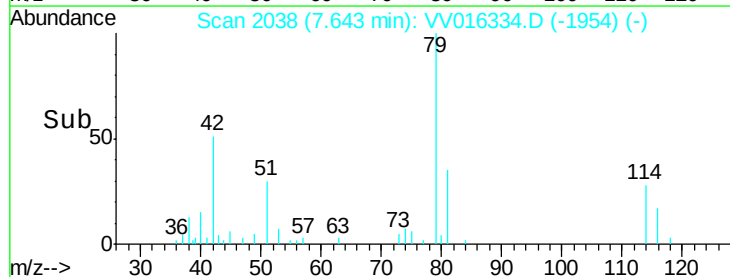
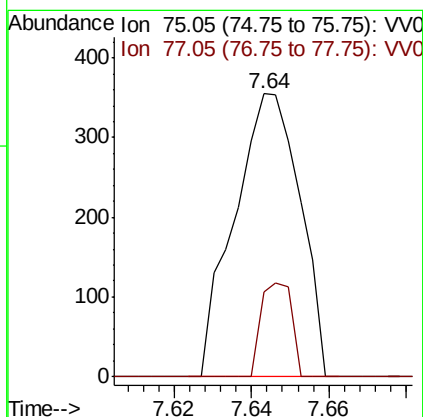
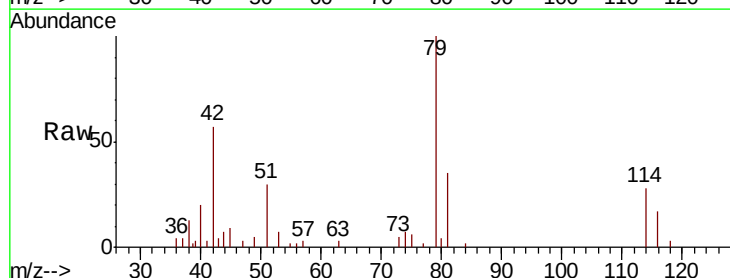
Tot Ion: 75 Resp: 850
Ion Ratio Lower Upper
75 100
77 37.4 21.7 40.3

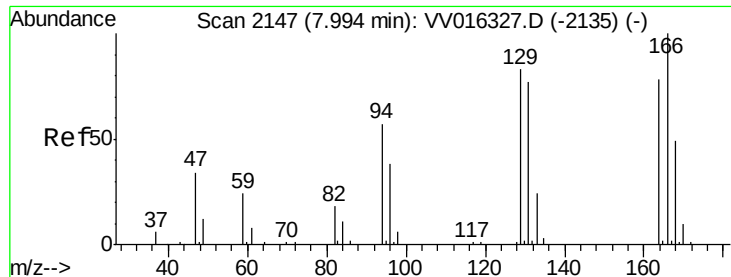


#46

trans-1,3-Dichloropropene
Concen: 0.065 ug/L
RT: 7.64 min Scan# 2038
Delta R.T. -0.03 min
Lab File: VV016334.D
Acq: 30 May 2020 01:05

Tgt Ion: 75 Resp: 418
Ion Ratio Lower Upper
75 100
77 30.1 21.7 40.3





#49

Tetrachloroethene

Concen: 1.683 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV016334.D

Acq: 30 May 2020 01:05

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 7033

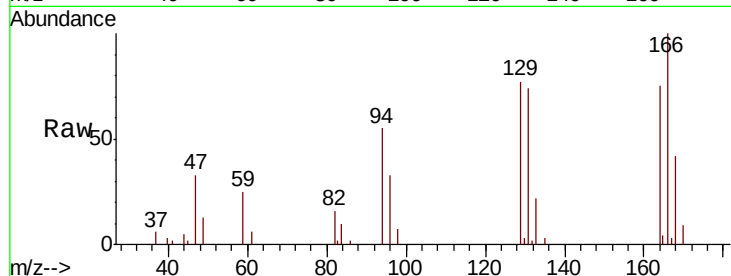
Ion Ratio Lower Upper

164 100

129 102.1 70.7 131.3

131 97.4 66.6 123.8

166 132.5 86.9 161.5

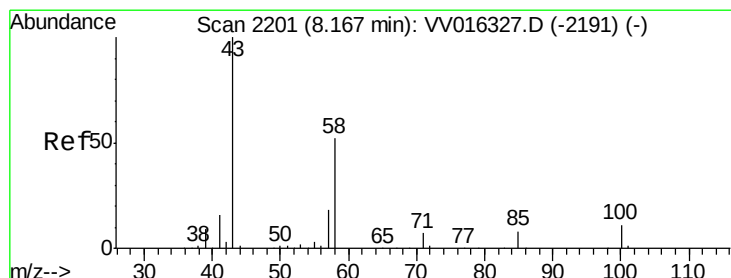
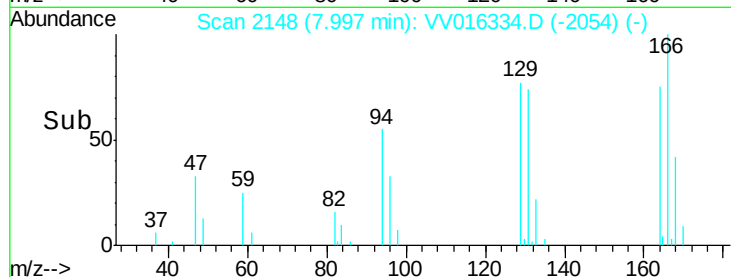
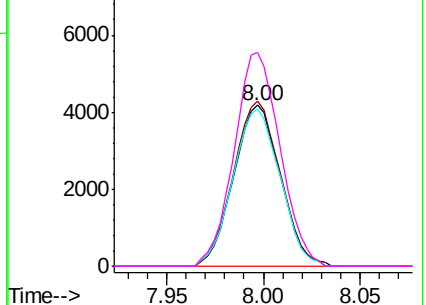


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#50

2-Hexanone

Concen: 3.233 ug/L

RT: 8.13 min Scan# 2188

Delta R.T. -0.04 min

Lab File: VV016334.D

Acq: 30 May 2020 01:05

Tgt Ion: 43 Resp: 7689

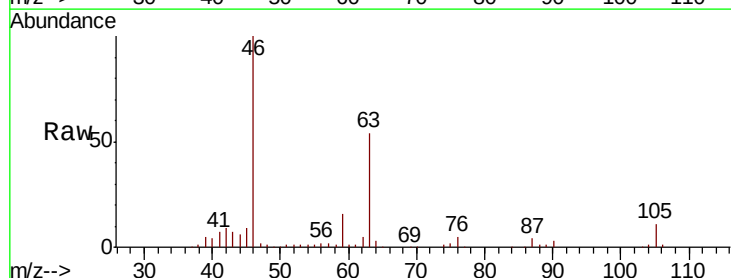
Ion Ratio Lower Upper

43 100

58 23.4 41.4 62.0#

57 22.7 15.0 22.4#

100 0.0 9.0 13.4#

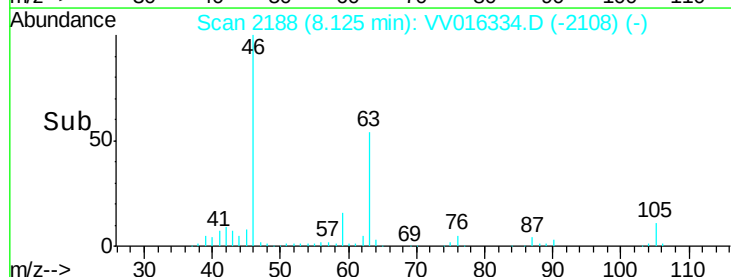
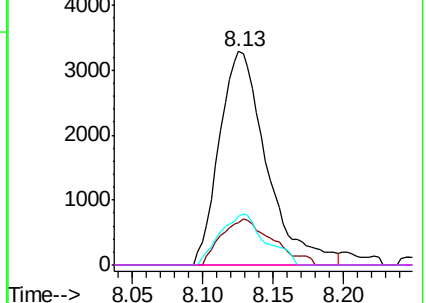


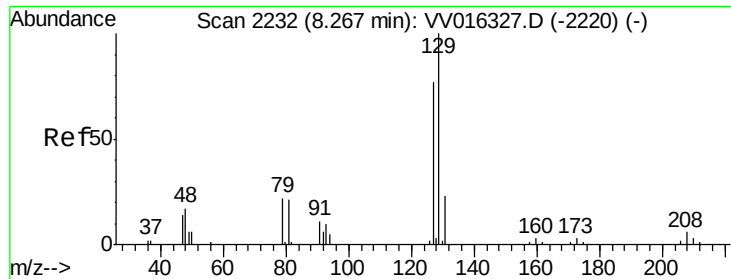
Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0

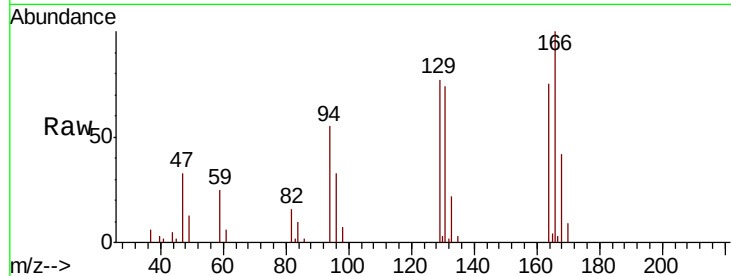




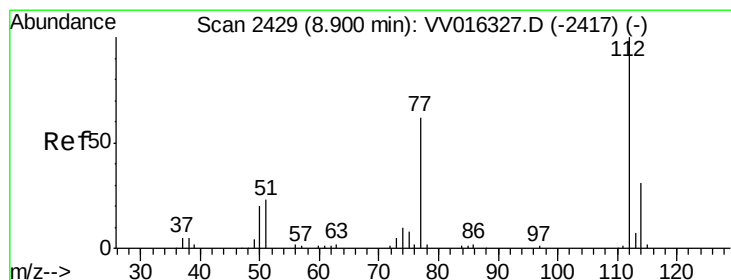
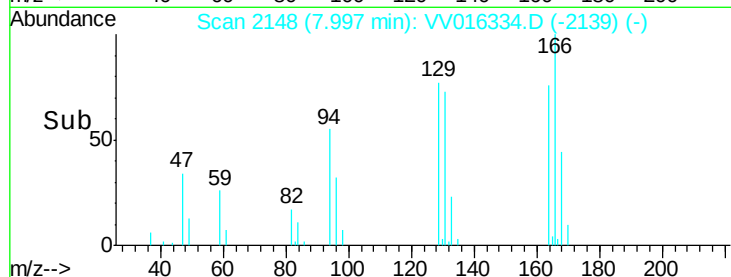
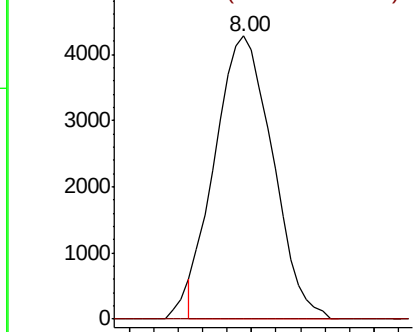
#51
Dibromochloromethane
Concen: 1.834 ug/L
RT: 8.00 min Scan# 2148
Delta R.T. -0.27 min
Lab File: VV016334.D
Acq: 30 May 2020 01:05

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:129 Resp: 7003
Ion Ratio Lower Upper
129 100
127 0.0 55.2 102.4#

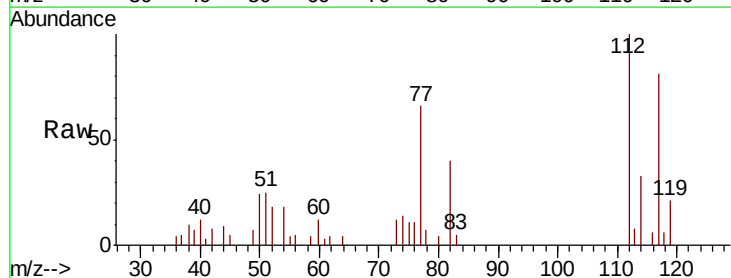


Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

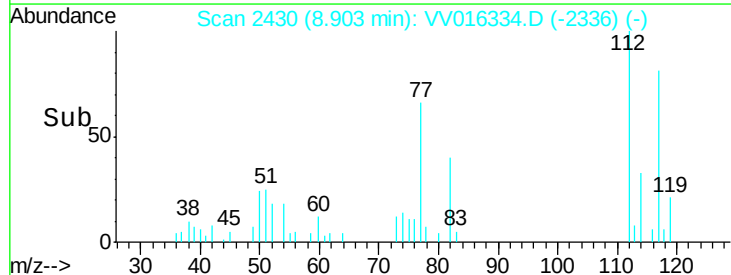
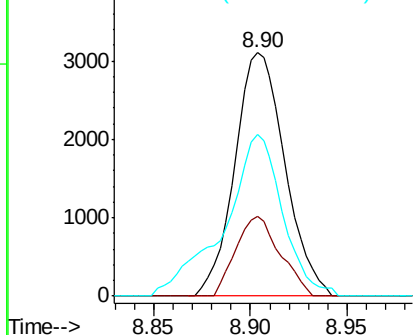


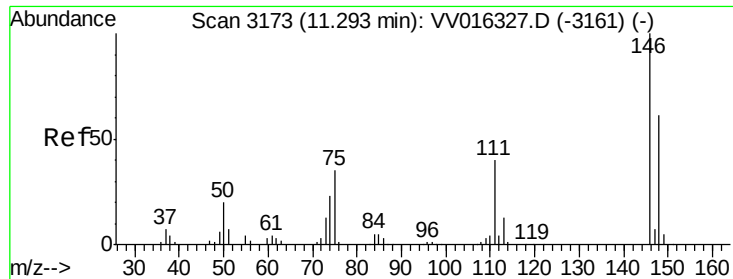
#53
Chlorobenzene
Concen: 0.372 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV016334.D
Acq: 30 May 2020 01:05

Tgt Ion:112 Resp: 5601
Ion Ratio Lower Upper
112 100
114 32.7 22.3 41.3
77 66.2 50.7 76.1



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): VV0

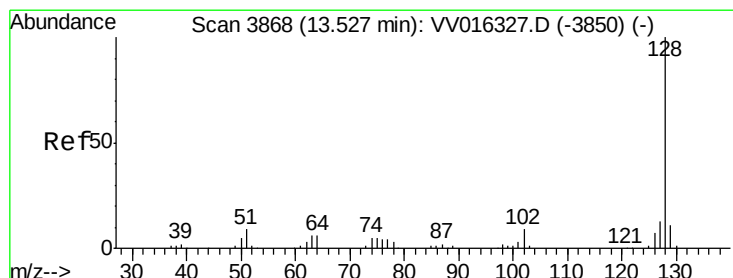
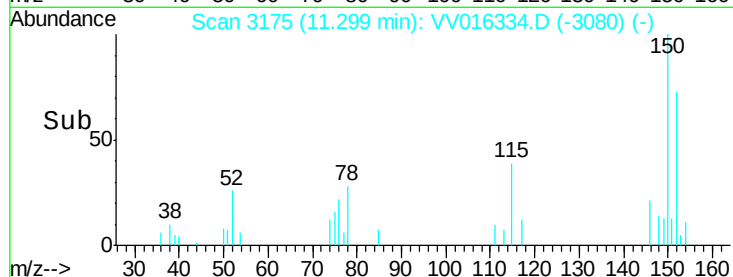
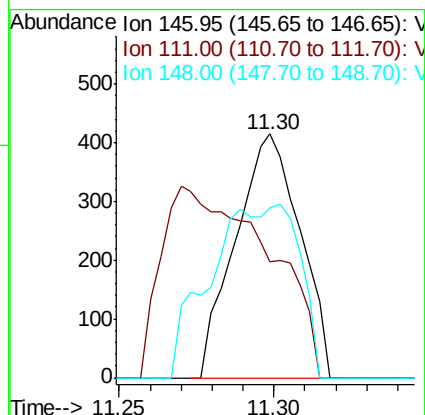
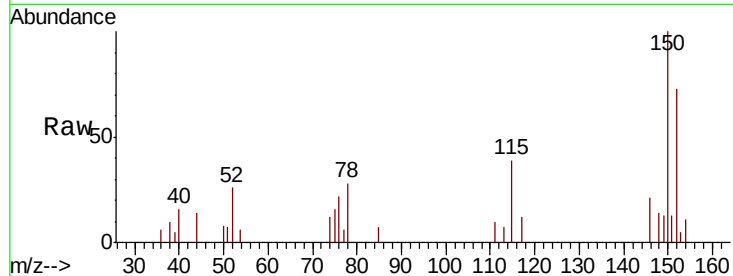




#64
 1,4-Dichlorobenzene
 Concen: 0.059 ug/L
 RT: 11.30 min Scan# 3175
 Delta R.T. 0.01 min
 Lab File: VV016334.D
 Acq: 30 May 2020 01:05

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion:146 Resp: 602
 Ion Ratio Lower Upper
 146 100
 111 47.7 28.3 52.7
 148 69.4 43.3 80.3



#70
 Naphthalene
 Concen: 0.538 ug/L
 RT: 13.53 min Scan# 3869
 Delta R.T. 0.00 min
 Lab File: VV016334.D
 Acq: 30 May 2020 01:05

Tgt Ion:128 Resp: 7318
 Ion Ratio Lower Upper
 128 100
 129 7.9 8.6 13.0#
 127 14.3 10.6 15.8

