

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV061220\
 Data File : VV016878.D
 Acq On : 12 Jun 2020 14:50
 Operator : SY/MD
 Sample : L2947-01
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXE0

Quant Time: Jun 13 02:13:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM060820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jun 13 01:34:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	203942	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	195371	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	100171	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	92771	64.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	128.94%
7) Chloroethane-d5	1.56	69	67618	78.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	156.62%#
11) 1,1-Dichloroethene-d2	2.12	63	171005	70.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	141.54%#
21) 2-Butanone-d5	3.89	46	152427	143.11	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	143.11%#
24) Chloroform-d	4.37	84	211449	72.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	144.52%#
26) 1,2-Dichloroethane-d4	5.05	65	149778	75.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	150.50%#
32) Benzene-d6	5.07	84	398763	70.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	141.62%#
36) 1,2-Dichloropropane-d6	6.09	67	123931	70.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	141.18%#
41) Toluene-d8	7.34	98	370479	71.69	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	143.38%#
43) trans-1,3-Dichloropropene-	7.64	79	64106	70.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	140.22%#
47) 2-Hexanone-d5	8.11	63	99221	129.64	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	129.64%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	168058	72.31	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	144.62%#
64) 1,2-Dichlorobenzene-d4	11.65	152	160951	75.29	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	150.58%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	14415	9.914	ug/L	92
8) Chloroethane	1.58	64	10679	14.868	ug/L	95
12) 1,1-Dichloroethene	2.13	96	68759	67.929	ug/L	96
17) trans-1,2-Dichloroethene	2.78	96	2381	1.725	ug/L	73
19) 1,1-Dichloroethane	3.21	63	1839982	708.278	ug/L	99
20) cis-1,2-Dichloroethene	3.94	96	22599	15.020	ug/L	99
30) 1,1,1-Trichloroethane	4.63	97	6043444	2425.581	ug/L	99
33) Benzene	5.12	78	21759	3.764	ug/L	100
34) Trichloroethene	5.94	95	2023	1.305	ug/L	85
42) Toluene	7.41	91	7732	1.269	ug/L	99
45) 1,1,2-Trichloroethane	7.87	97	1583	1.091	ug/L	78
51) Chlorobenzene	8.90	112	31922	8.029	ug/L	98
54) o-xylene	9.56	106	1568	0.633	ug/L	66
56) Isopropylbenzene	9.95	105	3686	0.553	ug/L #	92
63) 1,4-Dichlorobenzene	11.30	146	2489	0.771	ug/L #	80
65) 1,2-Dichlorobenzene	11.67	146	12184	3.832	ug/L	97

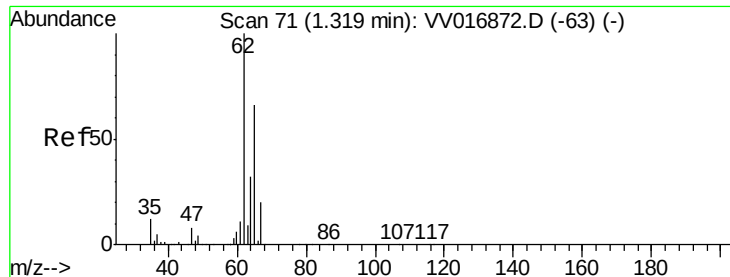
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV061220\
Data File : VV016878.D
Acq On : 12 Jun 2020 14:50
Operator : SY/MD
Sample : L2947-01
Misc : 5.0mL/MSVOA V/WATER
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Instrument :
MSVOA_V
ClientSampleId :
BFXE0

Quant Time: Jun 13 02:13:59 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM060820WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Jun 13 01:34:58 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#5

Vinyl chloride

Concen: 9.914 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Instrument :

MSVOA_V

ClientSampleId :

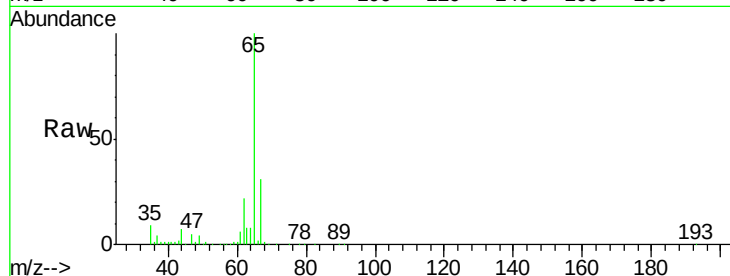
BFXE0

Tot Ion: 62 Resp: 14415

Ion Ratio Lower Upper

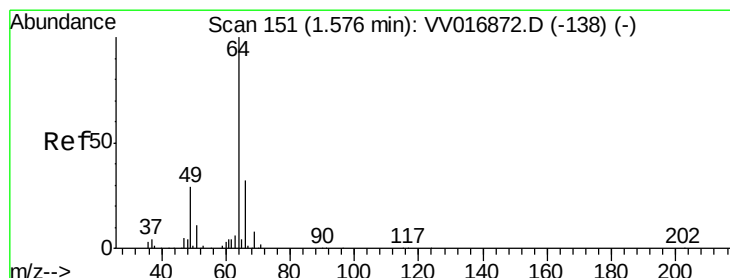
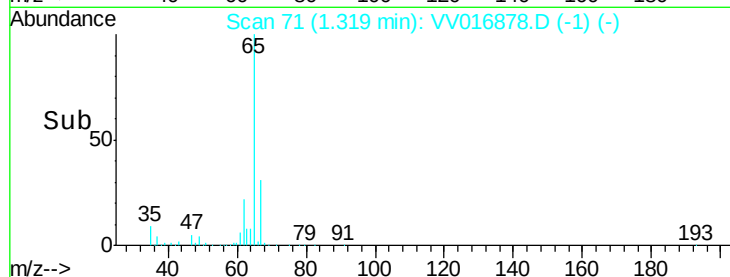
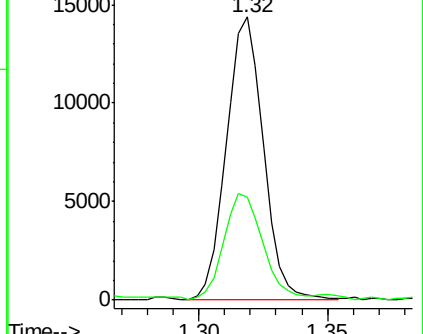
62 100

64 36.6 22.3 41.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#8

Chloroethane

Concen: 14.868 ug/L

RT: 1.58 min Scan# 151

Delta R.T. 0.00 min

Lab File: VV016878.D

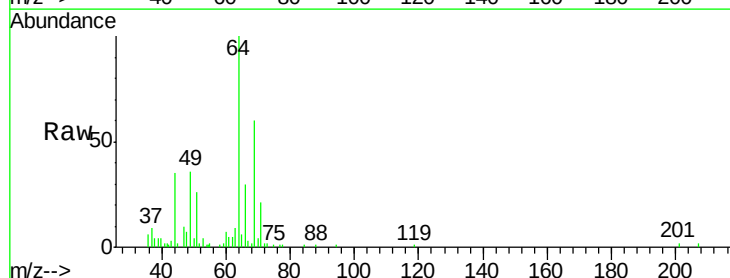
Acq: 12 Jun 2020 14:50

Tgt Ion: 64 Resp: 10679

Ion Ratio Lower Upper

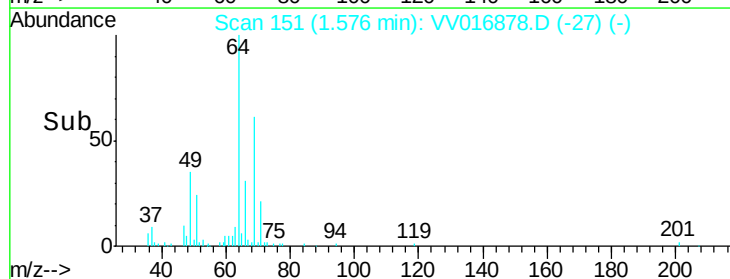
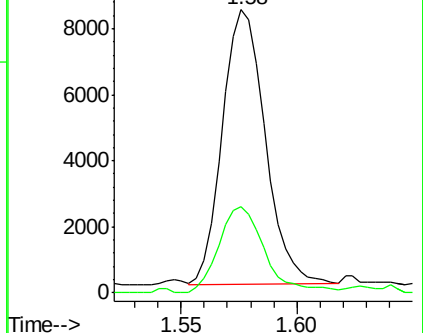
64 100

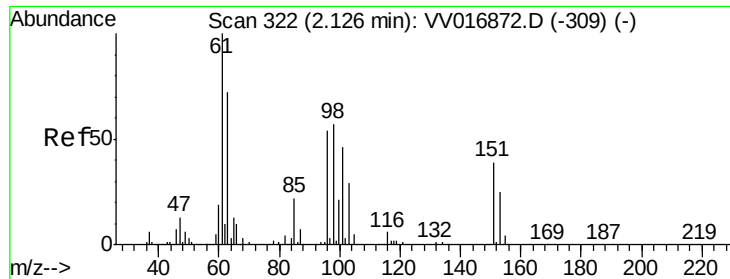
66 30.5 23.2 43.0



Abundance Ion 64.00 (63.70 to 64.70): VV0

Ion 66.00 (65.70 to 66.70): VV0

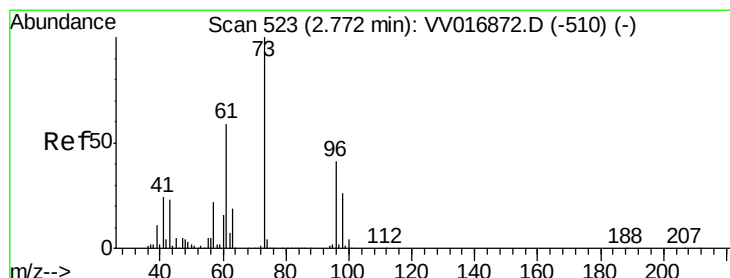
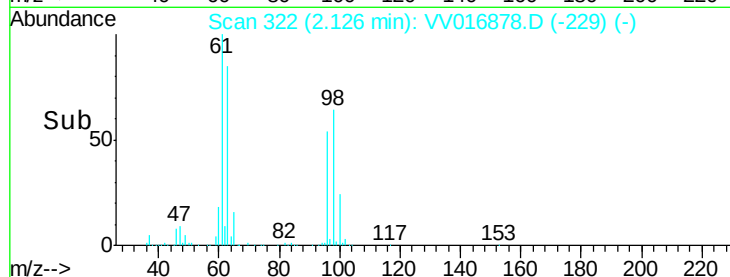
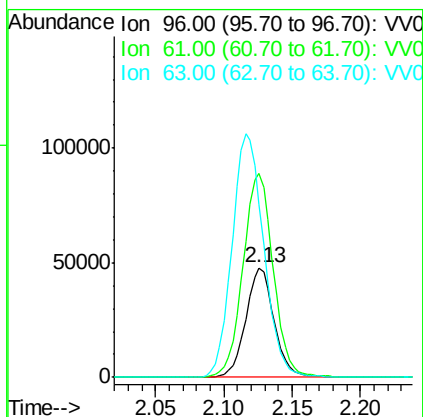
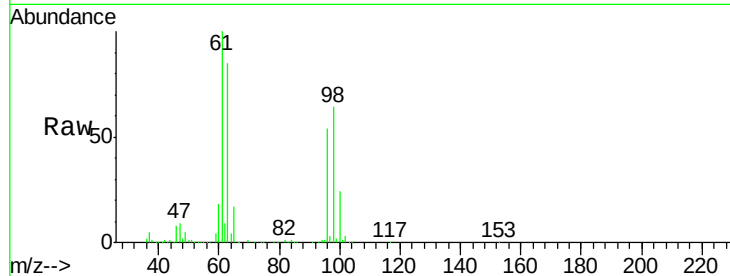




#12
 1,1-Dichloroethene
 Concen: 67.929 ug/L
 RT: 2.13 min Scan# 322
 Delta R.T. 0.00 min
 Lab File: VV016878.D
 Acq: 12 Jun 2020 14:50

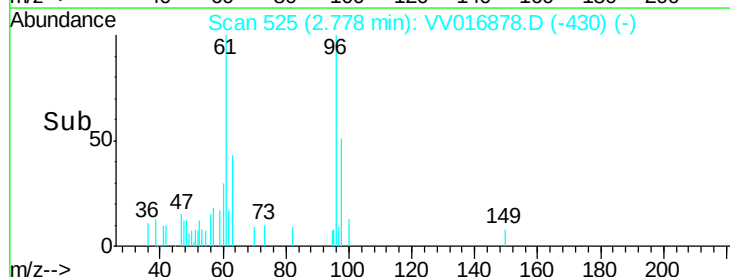
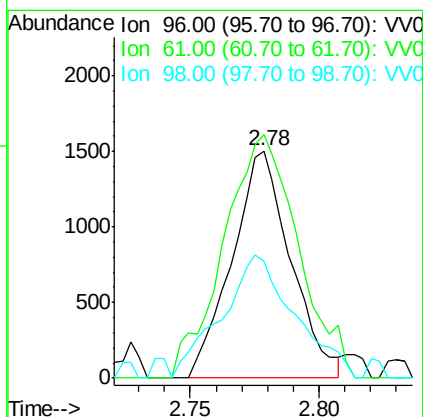
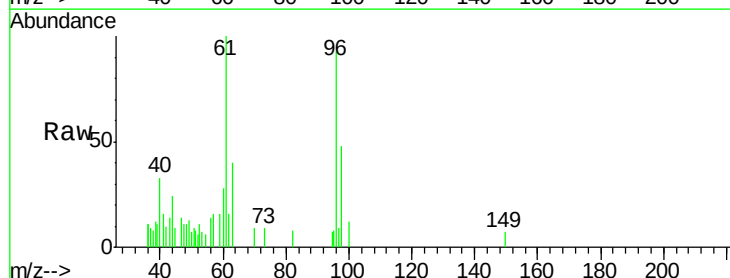
Instrument :
 MSVOA_V
 ClientSampleId :
 BFXE0

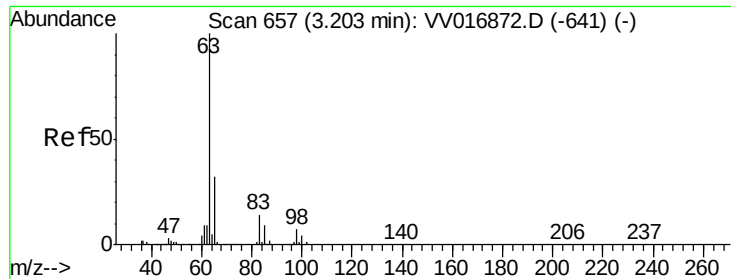
Tot Ion: 96 Resp: 68759
 Ion Ratio Lower Upper
 96 100
 61 186.1 130.4 242.2
 63 157.8 103.3 191.9



#17
 trans-1,2-Dichloroethene
 Concen: 1.725 ug/L
 RT: 2.78 min Scan# 525
 Delta R.T. 0.01 min
 Lab File: VV016878.D
 Acq: 12 Jun 2020 14:50

Tgt Ion: 96 Resp: 2381
 Ion Ratio Lower Upper
 96 100
 61 107.2 102.9 191.1
 98 51.4 45.5 84.5





#19

1,1-Dichloroethane

Concen: 708.278 ug/L

RT: 3.21 min Scan# 658

Delta R.T. 0.00 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Instrument :

MSVOA_V

ClientSampleID :

BFXE0

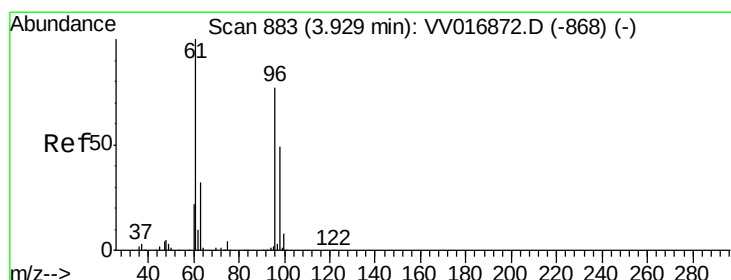
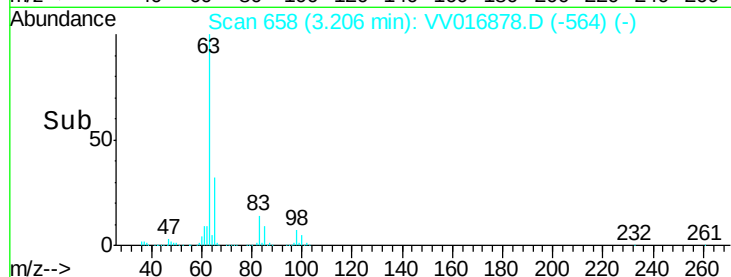
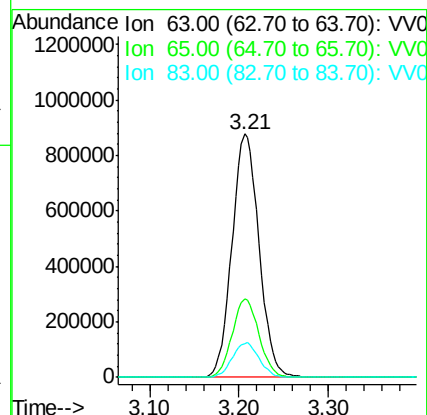
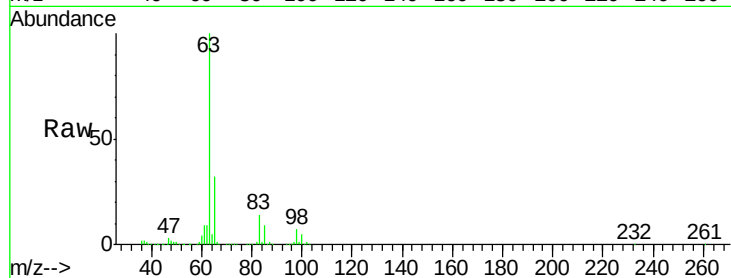
Tot Ion: 63 Resp: 1839982

Ion Ratio Lower Upper

63 100

65 32.3 23.2 43.0

83 14.1 10.0 18.6



#20

cis-1,2-Dichloroethene

Concen: 15.020 ug/L

RT: 3.94 min Scan# 885

Delta R.T. 0.01 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

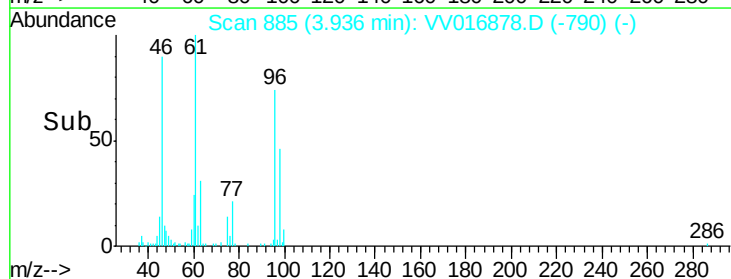
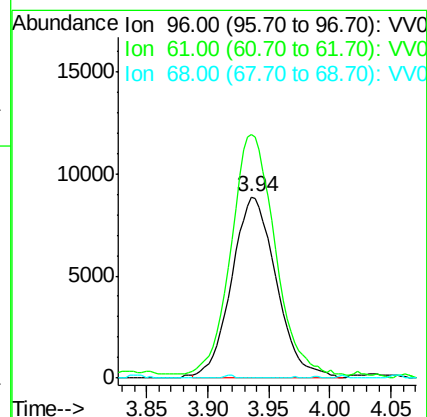
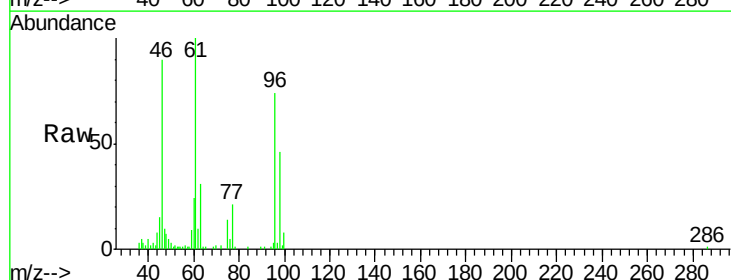
Tgt Ion: 96 Resp: 22599

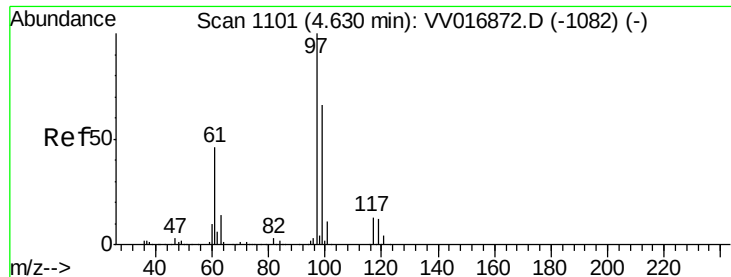
Ion Ratio Lower Upper

96 100

61 134.6 93.4 173.4

68 0.0 0.0 0.0





#30

1,1,1-Trichloroethane

Concen: 2425.581 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Instrument :

MSVOA_V

ClientSampled :

BFXE0

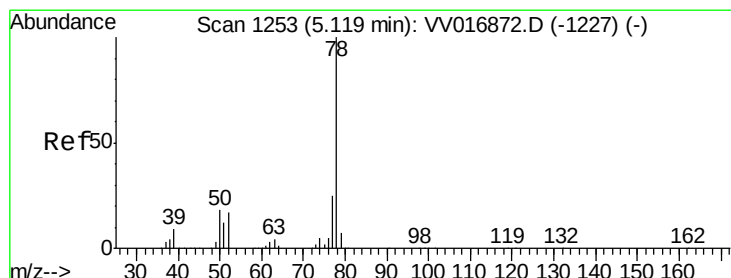
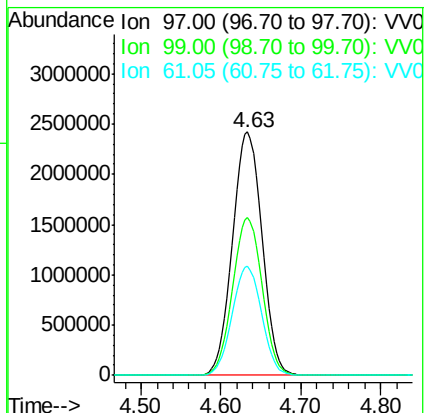
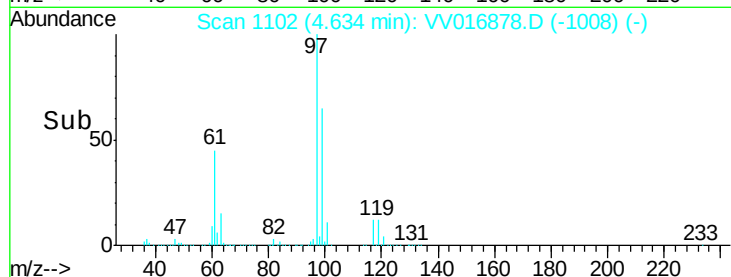
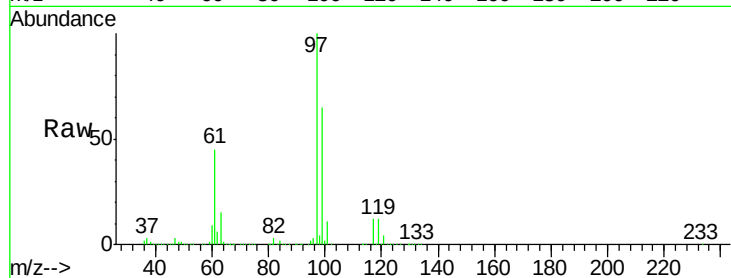
Tot Ion: 97 Resp: 6043444

Ion Ratio Lower Upper

97 100

99 64.5 51.3 76.9

61 44.7 36.7 55.1



#33

Benzene

Concen: 3.764 ug/L

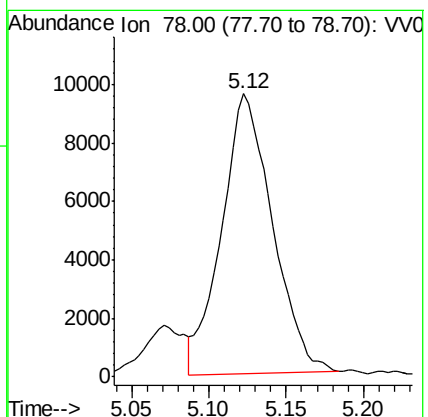
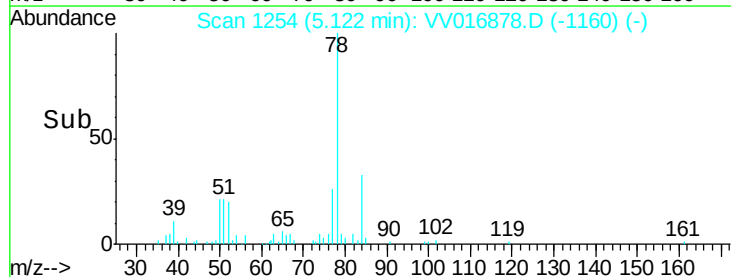
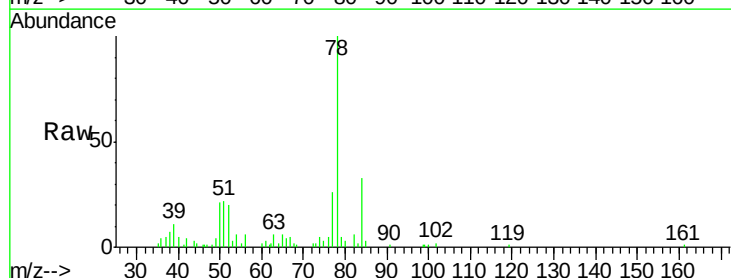
RT: 5.12 min Scan# 1254

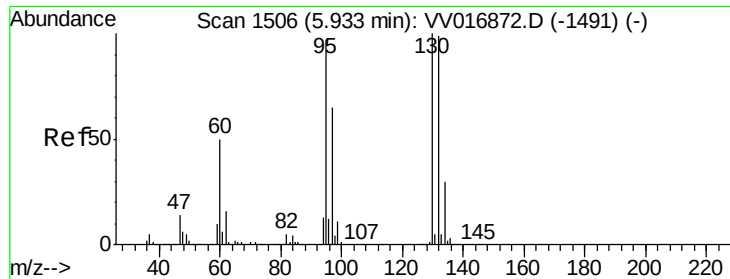
Delta R.T. 0.00 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Tgt Ion: 78 Resp: 21759





#34

Trichloroethene

Concen: 1.305 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Instrument :

MSVOA_V

ClientSampleId :

BFXE0

Tot Ion: 95 Resp: 2023

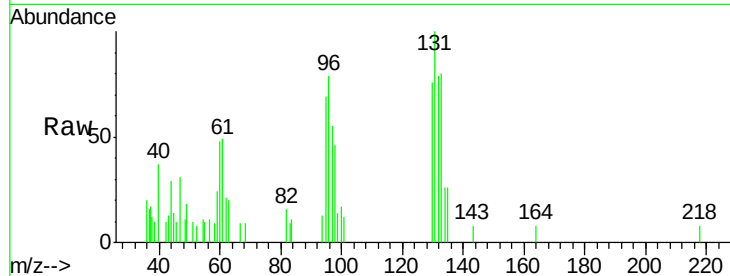
Ion Ratio Lower Upper

95 100

97 79.8 44.3 82.3

132 114.7 67.9 126.1

130 110.5 72.2 134.2

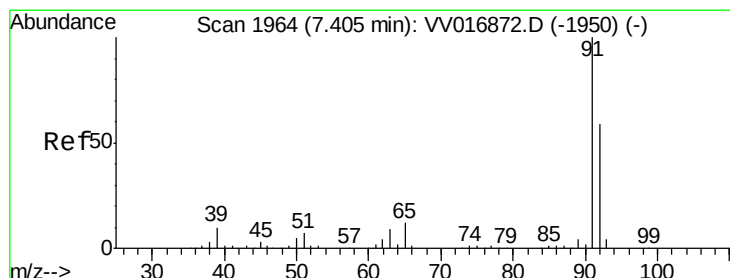
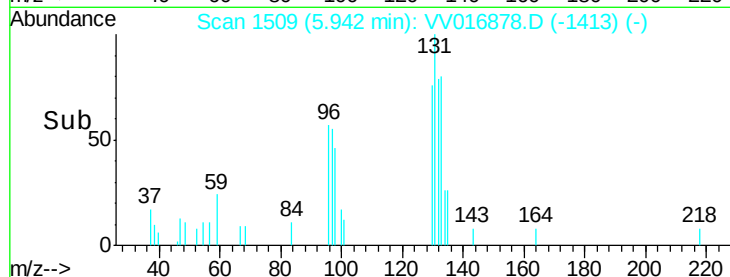
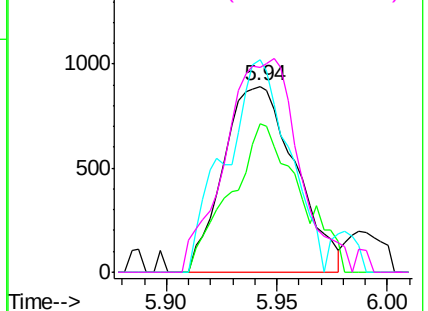


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#42

Toluene

Concen: 1.269 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV016878.D

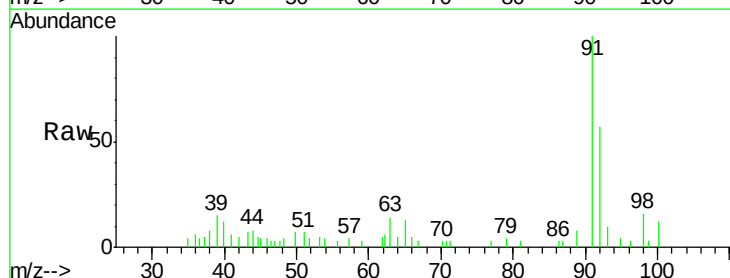
Acq: 12 Jun 2020 14:50

Tgt Ion: 91 Resp: 7732

Ion Ratio Lower Upper

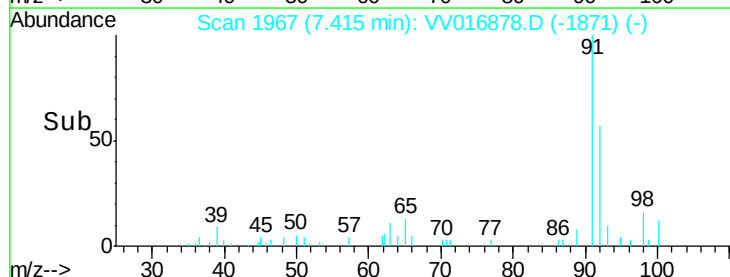
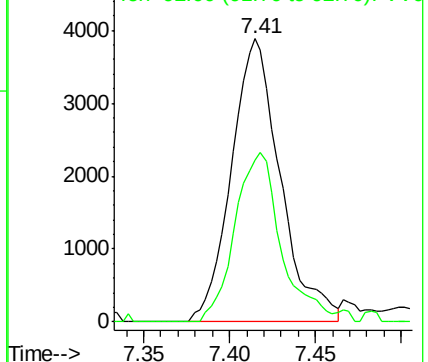
91 100

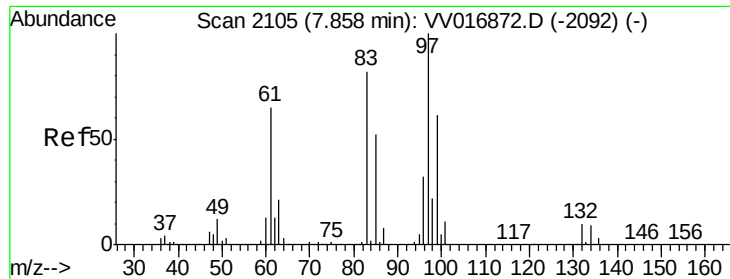
92 57.1 40.4 75.0



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

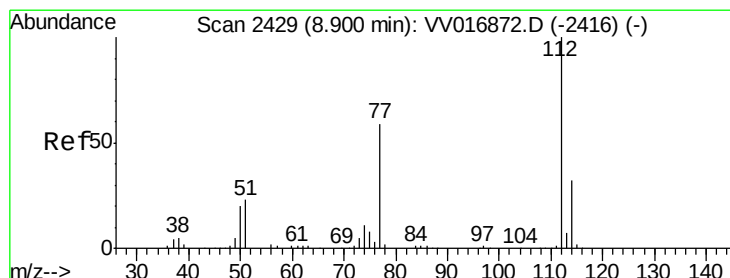
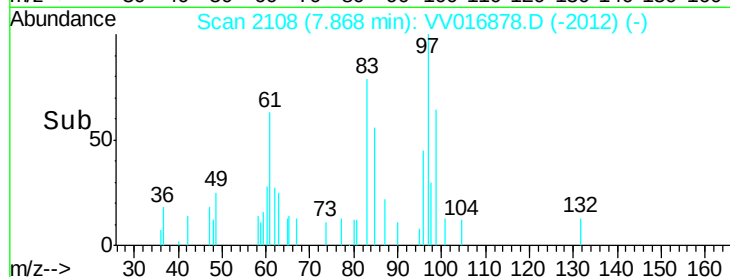
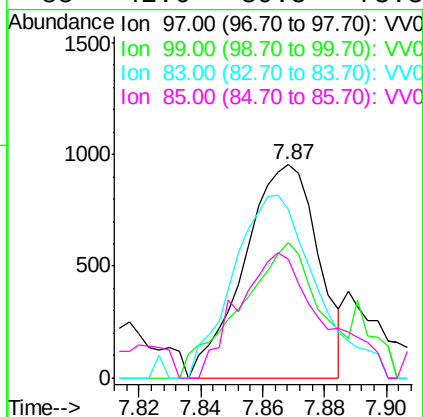
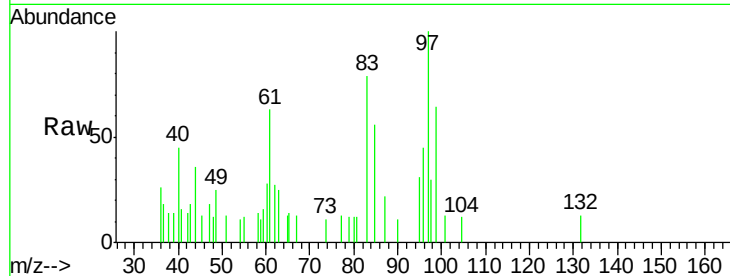




#45
 1,1,2-Trichloroethane
 Concen: 1.091 ug/L
 RT: 7.87 min Scan# 2108
 Delta R.T. 0.01 min
 Lab File: VV016878.D
 Acq: 12 Jun 2020 14:50

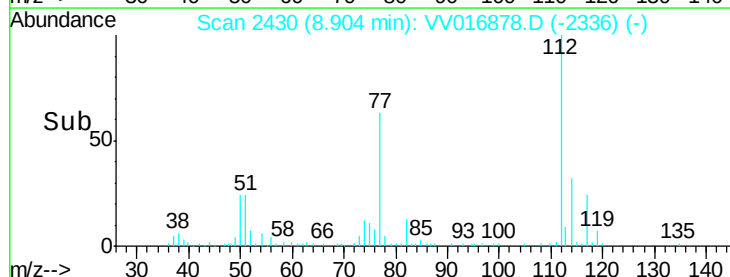
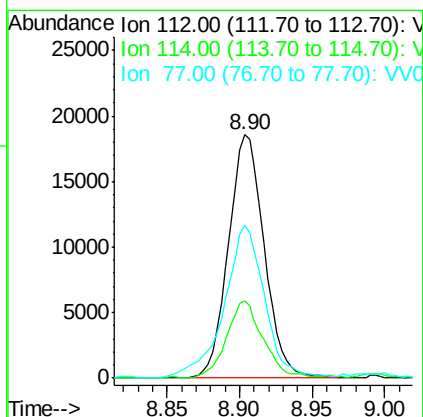
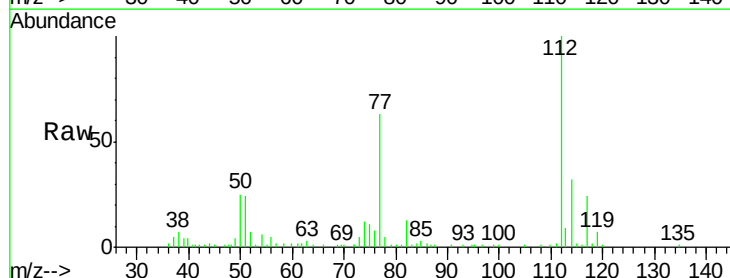
Instrument :
 MSVOA_V
 ClientSampled :
 BFXE0

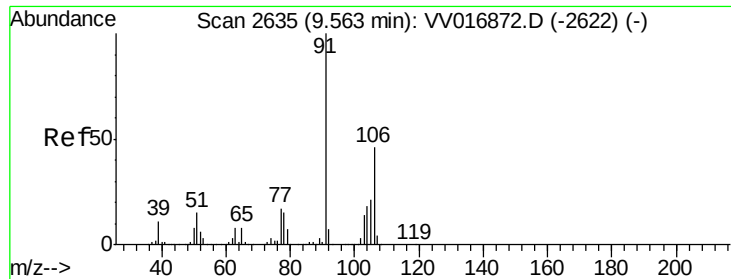
Tot Ion:	97	Resp:	1583
Ion	Ratio	Lower	Upper
97	100		
99	48.8	44.3	82.3
83	60.5	60.0	111.4
85	42.6	39.5	73.3



#51
 Chlorobenzene
 Concen: 8.029 ug/L
 RT: 8.90 min Scan# 2430
 Delta R.T. 0.00 min
 Lab File: VV016878.D
 Acq: 12 Jun 2020 14:50

Tgt Ion:	112	Resp:	31922
Ion	Ratio	Lower	Upper
112	100		
114	31.8	22.3	41.3
77	62.6	47.9	71.9





#54

o-xylene

Concen: 0.633 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Instrument :

MSVOA_V

ClientSampleId :

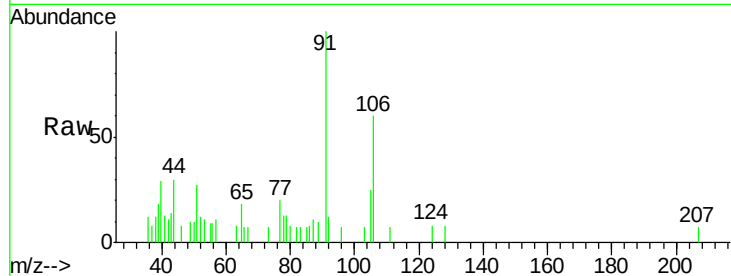
BFXE0

Tot Ion:106 Resp: 1568

Ion Ratio Lower Upper

106 100

91 167.6 155.9 289.5



Abundance Ion 106.00 (105.70 to 106.70): V

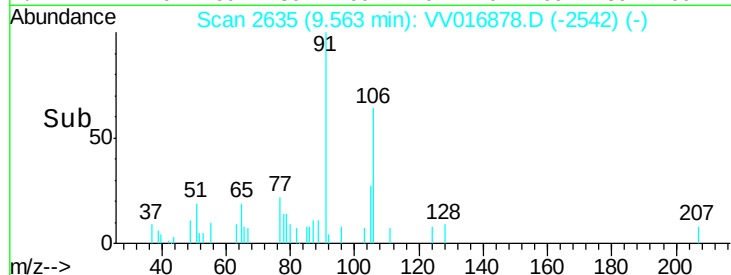
Ion 91.00 (90.70 to 91.70): VV0

1500

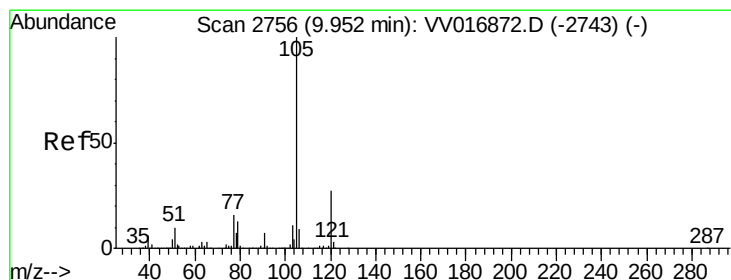
1000

500

0



Time-->



#56

Isopropylbenzene

Concen: 0.553 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

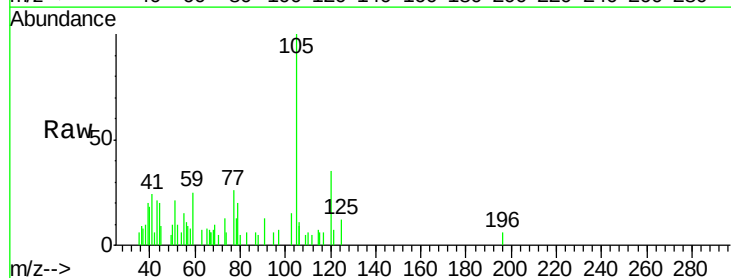
Tgt Ion:105 Resp: 3686

Ion Ratio Lower Upper

105 100

120 28.4 21.2 31.8

77 22.8 13.0 19.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0

2500

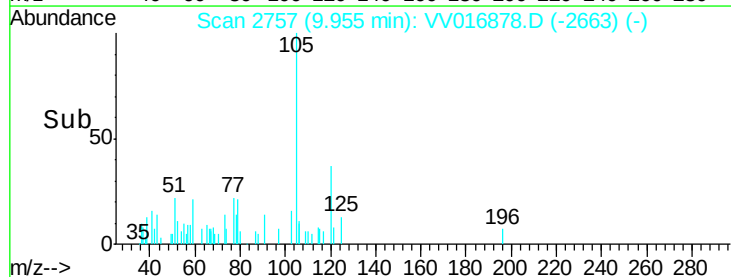
2000

1500

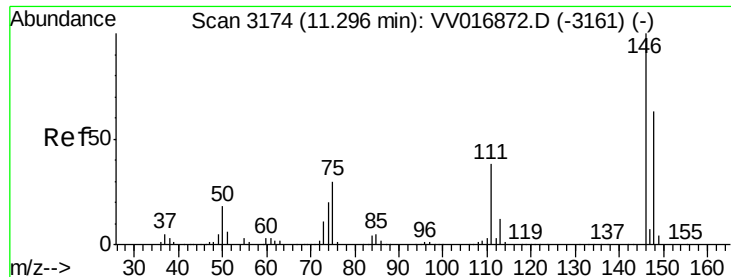
1000

500

0



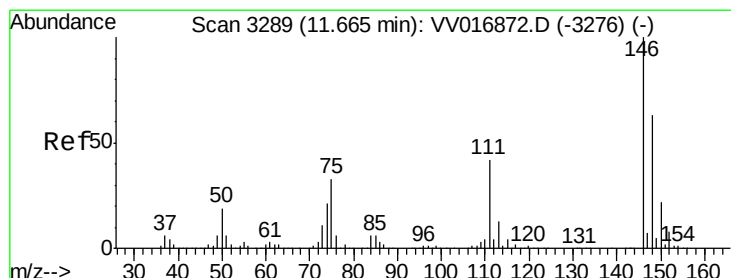
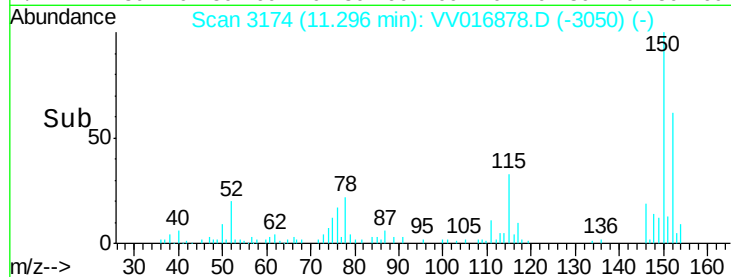
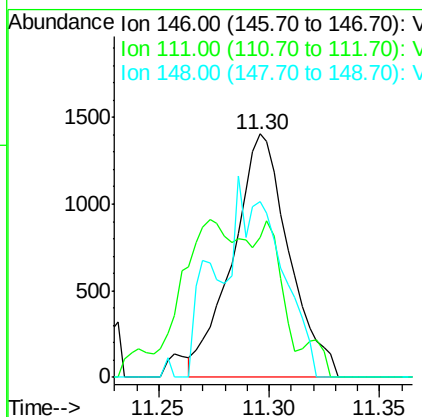
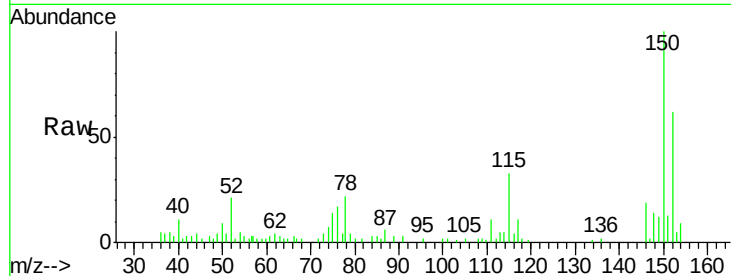
Time-->



#63
 1,4-Dichlorobenzene
 Concen: 0.771 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV016878.D
 Acq: 12 Jun 2020 14:50

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXE0

Tot Ion:146 Resp: 2489
 Ion Ratio Lower Upper
 146 100
 111 57.3 26.7 49.7#
 148 72.1 43.5 80.9



#65
 1,2-Dichlorobenzene
 Concen: 3.832 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV016878.D
 Acq: 12 Jun 2020 14:50

Tgt Ion:146 Resp: 12184
 Ion Ratio Lower Upper
 146 100
 111 45.4 33.7 50.5
 148 65.1 50.7 76.1

