

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062420\
 Data File : VV017083.D
 Acq On : 24 Jun 2020 19:53
 Operator : SY/MD
 Sample : L3105-07
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXL0

Quant Time: Jun 25 01:21:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Jun 25 01:16:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	165148	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	159705	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	73664	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	37522	3.78	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	75.60%
7) Chloroethane-d5	1.58	69	31395	4.36	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.20%
11) 1,1-Dichloroethene-d2	2.13	63	63223	3.35	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.00%
20) 2-Butanone-d5	3.93	46	118190	46.79	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.58%
24) Chloroform-d	4.38	84	100083	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.40%
26) 1,2-Dichloroethane-d4	5.06	65	52840	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.00%
32) Benzene-d6	5.07	84	186320	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.00%
36) 1,2-Dichloropropane-d6	6.10	67	56645	4.57	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.40%
41) Toluene-d8	7.34	98	164605	4.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.80%
45) trans-1,3-Dichloropropene-	7.64	79	21045	4.07	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.40%
48) 2-Hexanone-d5	8.11	63	86223	43.80	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.60%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	39399	4.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.60%
65) 1,2-Dichlorobenzene-d4	11.65	152	68237	5.01	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.25	50	990	0.089	ug/L #	80
5) Vinyl chloride	1.32	62	29179	2.693	ug/L	98
8) Chloroethane	1.32	64	9637	1.609	ug/L #	64
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	857	0.098	ug/L #	19
12) 1,1-Dichloroethene	2.14	96	7132	0.900	ug/L #	6
13) Acetone	2.21	43	9579	7.501	ug/L	69
18) trans-1,2-Dichloroethene	2.78	96	3530	0.420	ug/L	80
19) 1,1-Dichloroethane	3.21	63	71607	3.794	ug/L	99
21) 2-Butanone	4.11	43	376369	156.352	ug/L #	51
22) cis-1,2-Dichloroethene	3.94	96	403148	35.100	ug/L	98
25) Chloroform	4.40	83	33130	1.607	ug/L	99
27) 1,2-Dichloroethane	5.16	62	1809	0.141	ug/L #	73
29) 1,1,1-Trichloroethane	4.64	97	7239	0.378	ug/L	89
30) Cyclohexane	4.70	56	5038	0.277	ug/L	98
33) Benzene	5.13	78	6953	0.166	ug/L	100
34) Trichloroethene	5.94	95	15956	1.303	ug/L	96
35) Methylcyclohexane	6.10	83	15060	0.791	ug/L #	18

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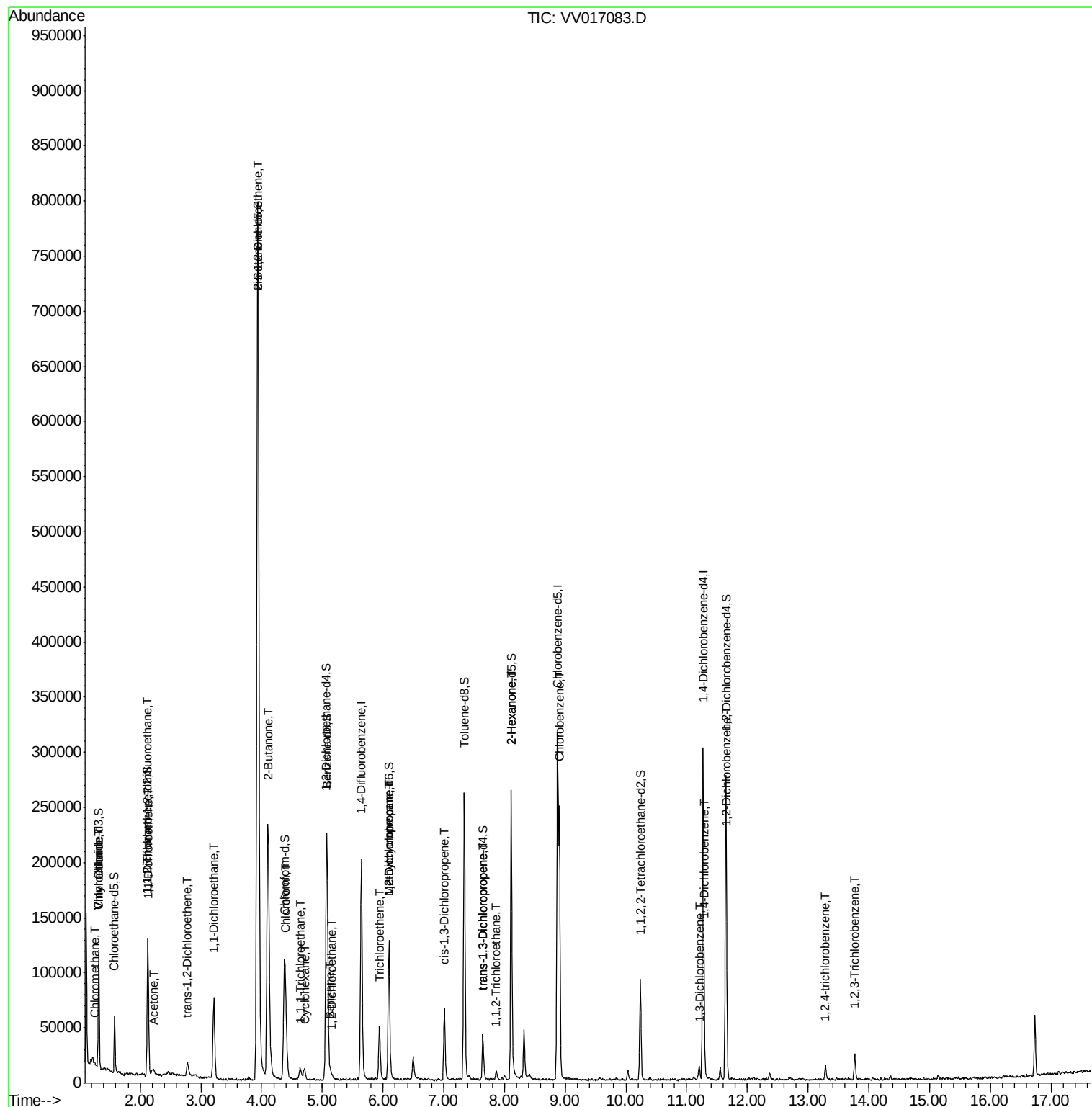
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,2-Dichloropropane	6.10	63	7052	0.681	ug/L #	87
39) cis-1,3-Dichloropropene	7.01	75	1670	0.109	ug/L #	68
46) trans-1,3-Dichloropropene	7.64	75	1339	0.101	ug/L #	70
47) 1,1,2-Trichloroethane	7.86	97	2288	0.312	ug/L	97
50) 2-Hexanone	8.11	43	11486	2.700	ug/L #	68
53) Chlorobenzene	8.90	112	120025	3.960	ug/L	99
63) 1,3-Dichlorobenzene	11.21	146	4595	0.207	ug/L	91
64) 1,4-Dichlorobenzene	11.30	146	7903	0.351	ug/L	99
66) 1,2-Dichlorobenzene	11.67	146	3753	0.186	ug/L #	86
69) 1,2,4-trichlorobenzene	13.29	180	3387	0.231	ug/L	98
71) 1,2,3-Trichlorobenzene	13.77	180	6120	0.512	ug/L	97

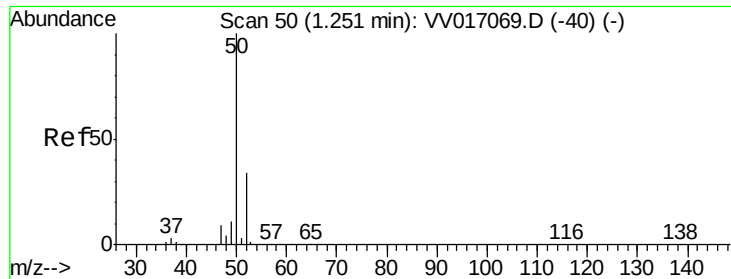
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.089 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV017083.D

Acq: 24 Jun 2020 19:53

Instrument :

MSVOA_V

ClientSampleId :

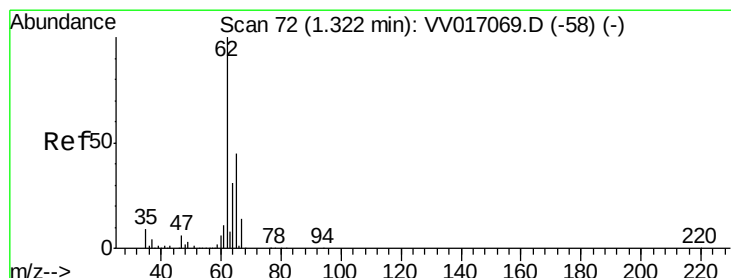
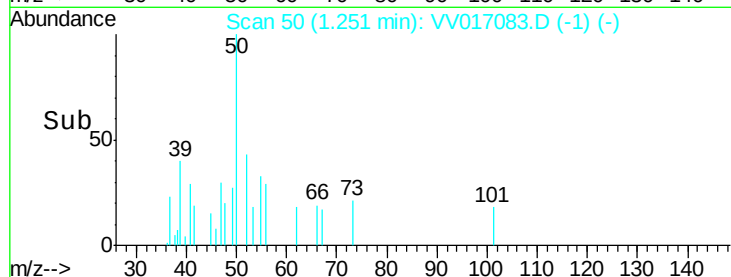
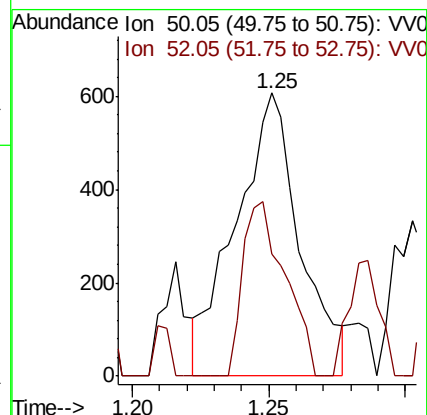
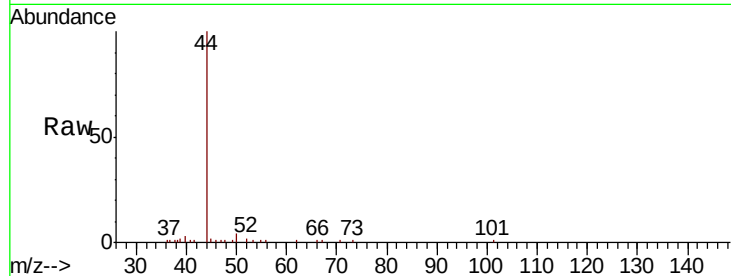
BFXL0

Tot Ion: 50 Resp: 990

Ion Ratio Lower Upper

50 100

52 43.3 22.5 41.9#



#5

Vinyl chloride

Concen: 2.693 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV017083.D

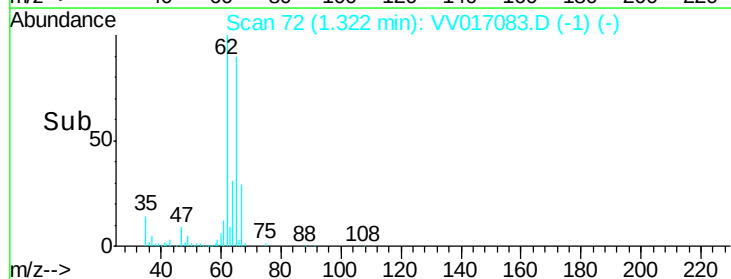
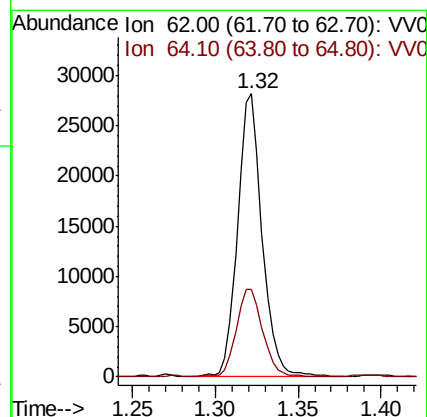
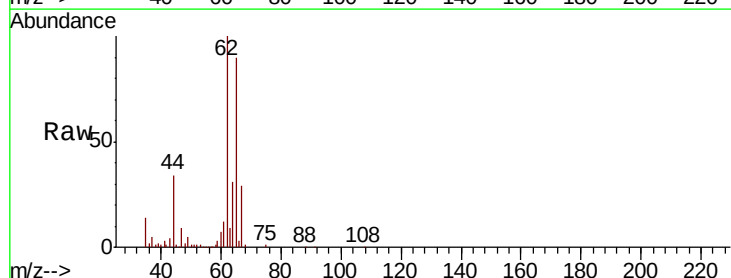
Acq: 24 Jun 2020 19:53

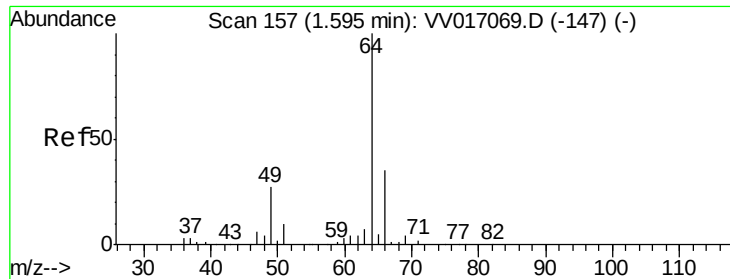
Tgt Ion: 62 Resp: 29179

Ion Ratio Lower Upper

62 100

64 31.0 22.5 41.7





#8

Chloroethane

Concen: 1.609 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.28 min

Lab File: VV017083.D

Acq: 24 Jun 2020 19:53

Instrument :

MSVOA_V

ClientSampleId :

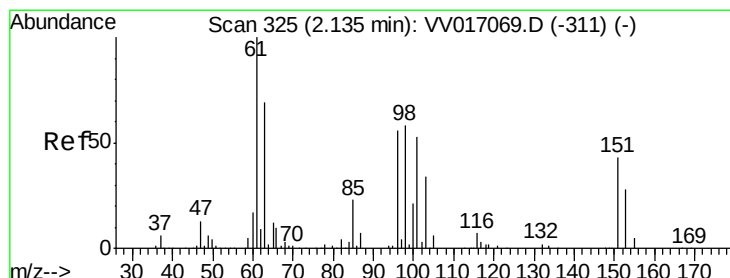
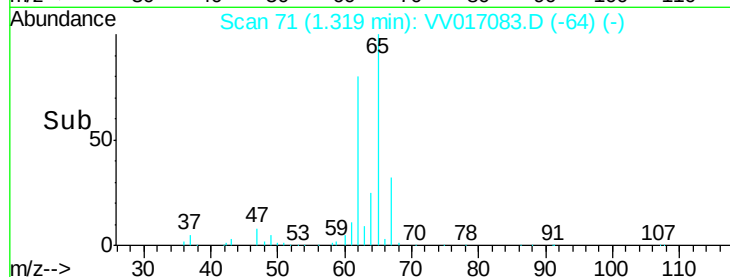
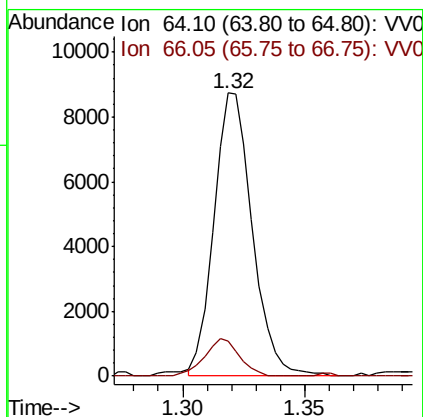
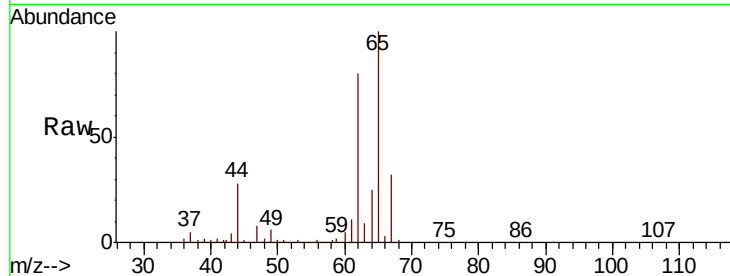
BFXL0

Tot Ion: 64 Resp: 9637

Ion Ratio Lower Upper

64 100

66 12.4 22.8 42.4#



#10

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

Concen: 0.098 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV017083.D

Acq: 24 Jun 2020 19:53

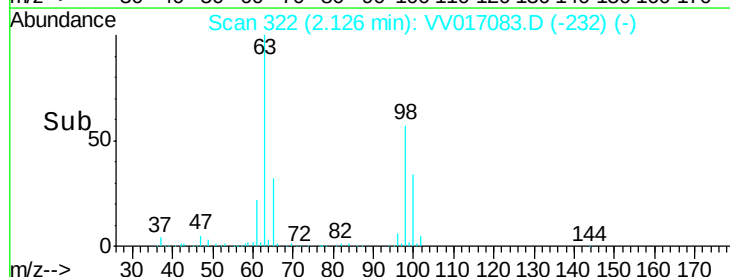
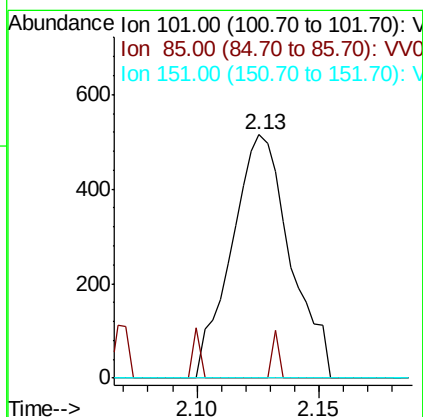
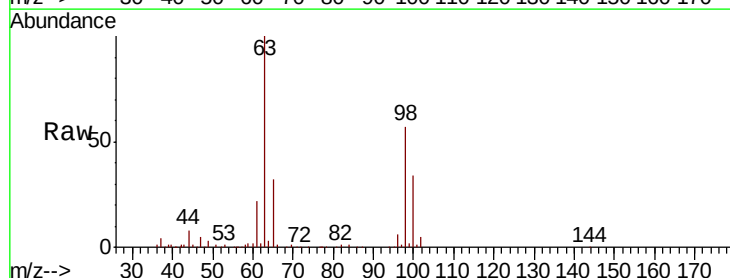
Tgt Ion: 101 Resp: 857

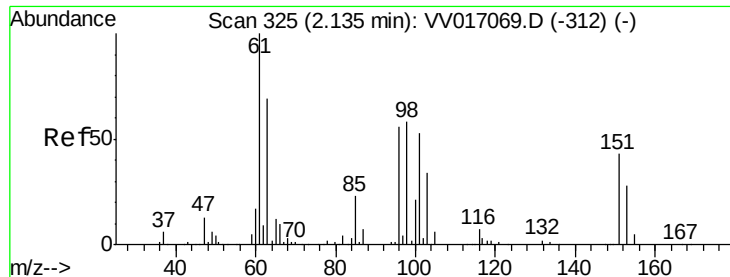
Ion Ratio Lower Upper

101 100

85 2.3 35.4 53.2#

151 0.0 63.9 95.9#

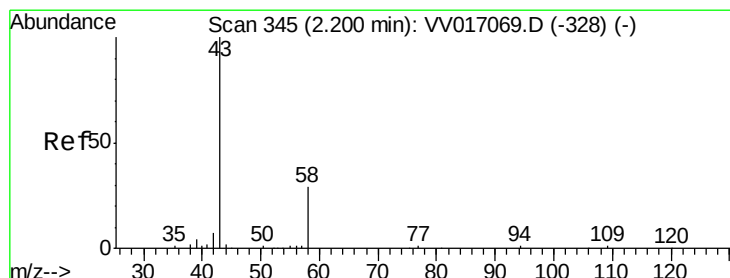
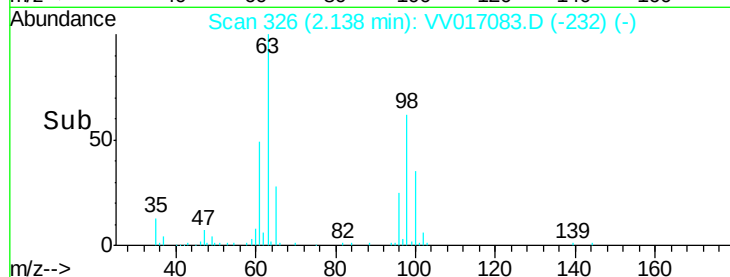
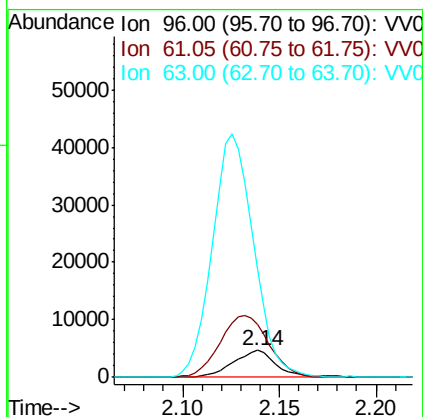
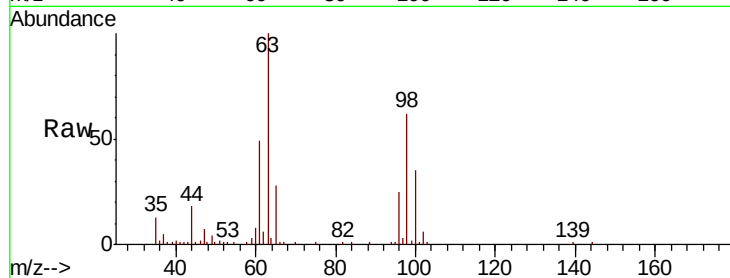




#12
 1,1-Dichloroethene
 Concen: 0.900 ug/L
 RT: 2.14 min Scan# 326
 Delta R.T. 0.00 min
 Lab File: VV017083.D
 Acq: 24 Jun 2020 19:53

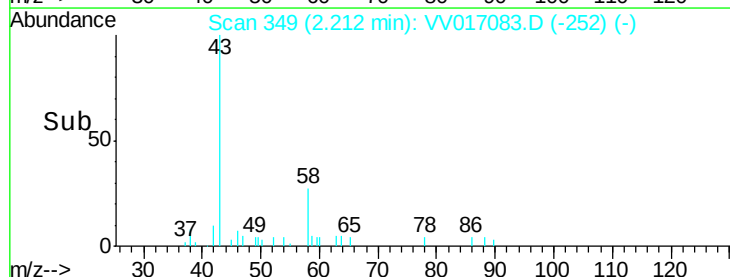
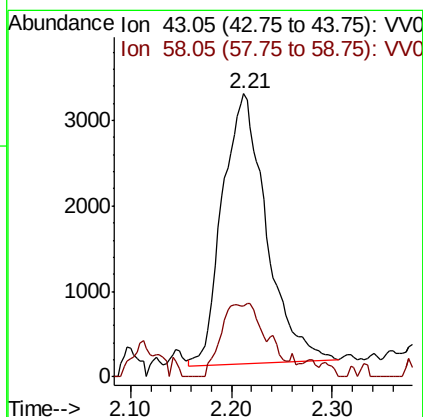
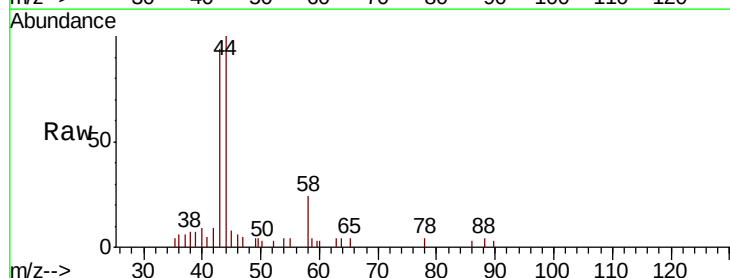
Instrument :
 MSVOA_V
 ClientSampled :
 BFXL0

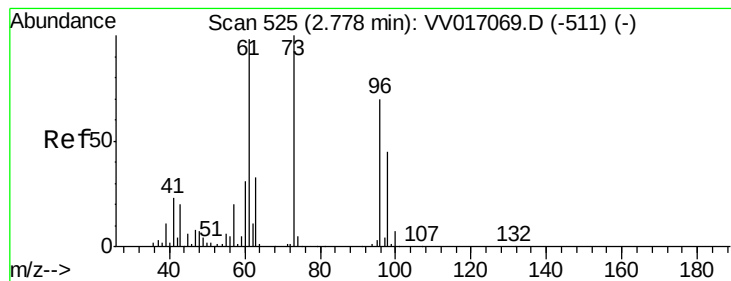
Tot Ion	Ratio	Lower	Upper
96	100		
61	195.5	125.0	232.2
63	401.3	109.8	203.8#



#13
 Acetone
 Concen: 7.501 ug/L
 RT: 2.21 min Scan# 349
 Delta R.T. 0.01 min
 Lab File: VV017083.D
 Acq: 24 Jun 2020 19:53

Tgt Ion	Ratio	Lower	Upper
43	100		
58	12.9	0.0	58.4





#18

trans-1,2-Dichloroethene

Concen: 0.420 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV017083.D

Acq: 24 Jun 2020 19:53

Instrument :

MSVOA_V

ClientSampleId :

BFXL0

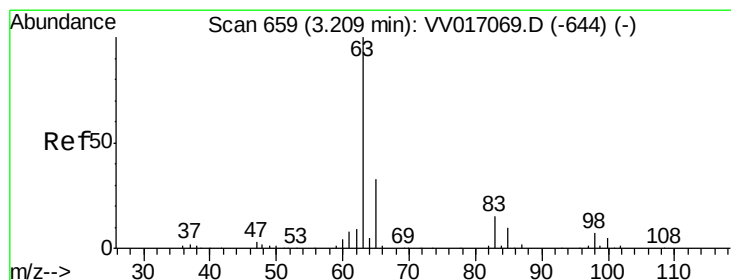
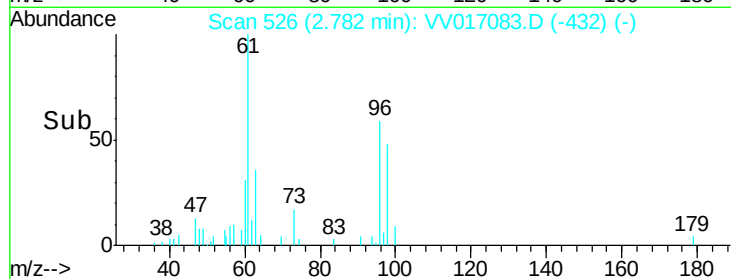
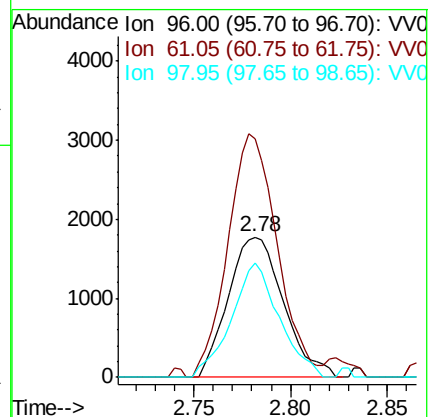
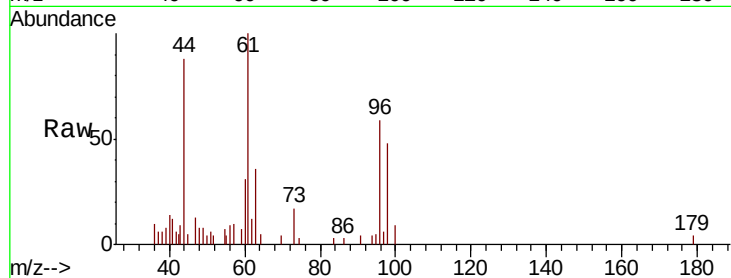
Tot Ion: 96 Resp: 3530

Ion Ratio Lower Upper

96 100

61 169.9 102.3 189.9

98 81.7 44.7 82.9



#19

1,1-Dichloroethane

Concen: 3.794 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV017083.D

Acq: 24 Jun 2020 19:53

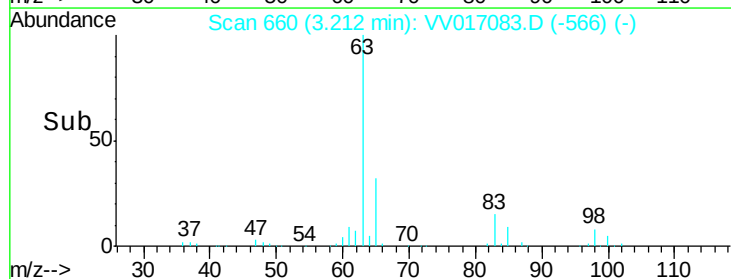
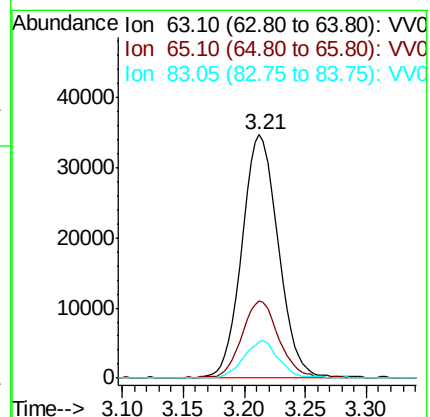
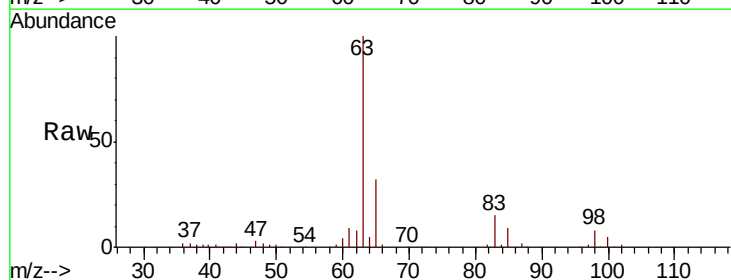
Tgt Ion: 63 Resp: 71607

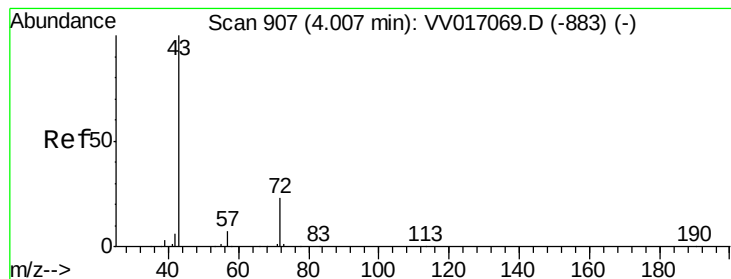
Ion Ratio Lower Upper

63 100

65 31.7 21.8 40.4

83 14.7 9.7 17.9





#21

2-Butanone

Concen: 156.352 ug/L

RT: 4.11 min Scan# 938

Delta R.T. 0.10 min

Lab File: VV017083.D

Acq: 24 Jun 2020 19:53

Instrument :

MSVOA_V

ClientSampleId :

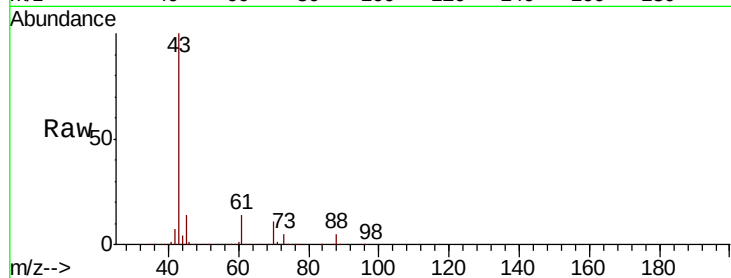
BFXL0

Tot Ion: 43 Resp: 376369

Ion Ratio Lower Upper

43 100

72 0.2 12.4 37.4#



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 72.00 (71.70 to 72.70): VV0

4.11

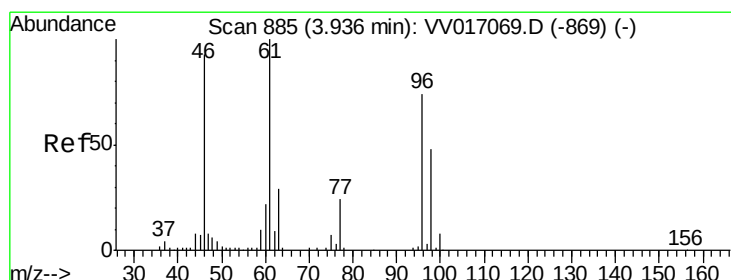
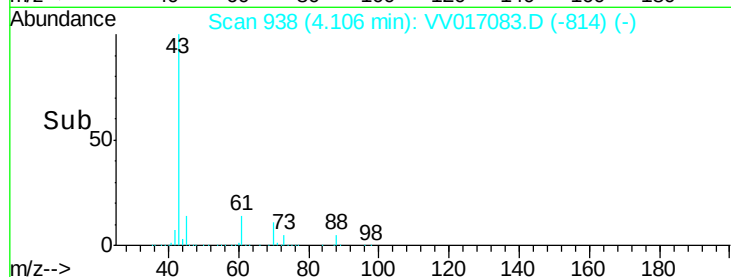
150000

100000

50000

0

Time-->



#22

cis-1,2-Dichloroethene

Concen: 35.100 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV017083.D

Acq: 24 Jun 2020 19:53

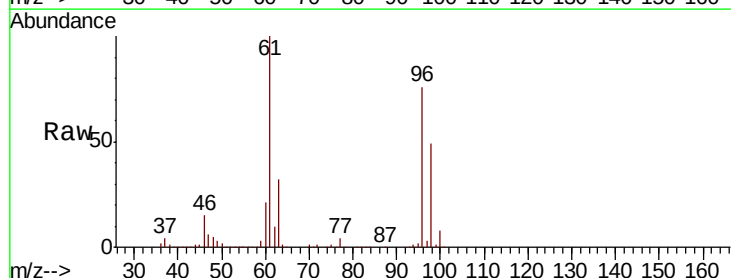
Tgt Ion: 96 Resp: 403148

Ion Ratio Lower Upper

96 100

61 132.2 91.0 169.0

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 68.15 (67.85 to 68.85): VV0

300000

250000

200000

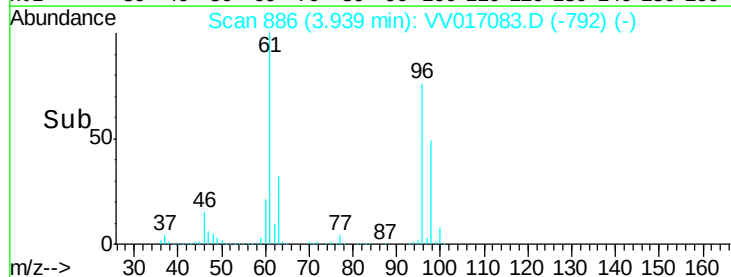
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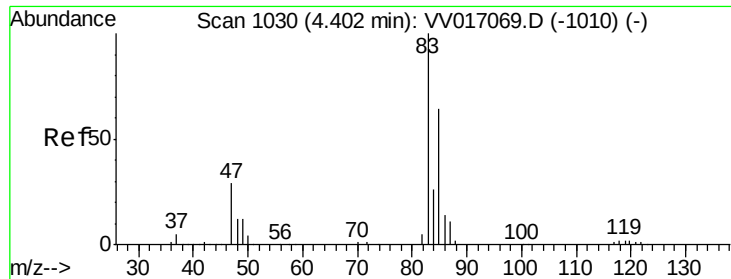
100000

50000

0

Time-->





#25

Chloroform

Concen: 1.607 ug/L

RT: 4.40 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VV017083.D

Acq: 24 Jun 2020 19:53

Instrument :

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ClientSampleId :

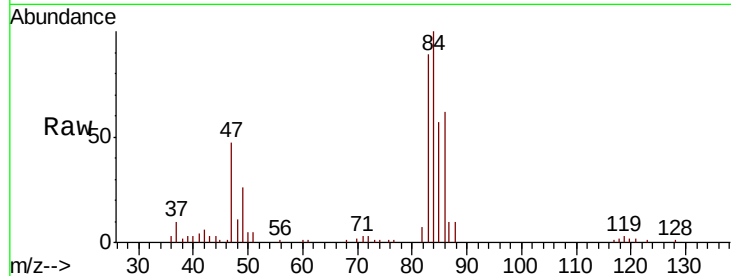
BFXL0

Tot Ion: 83 Resp: 33130

Ion Ratio Lower Upper

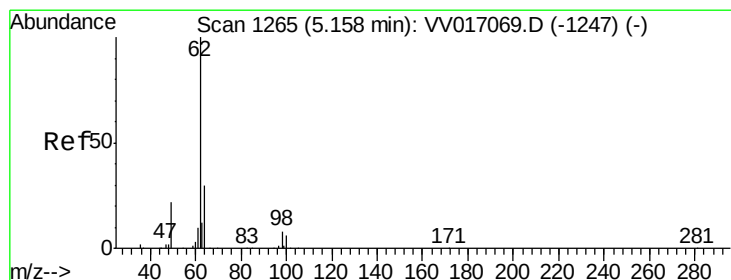
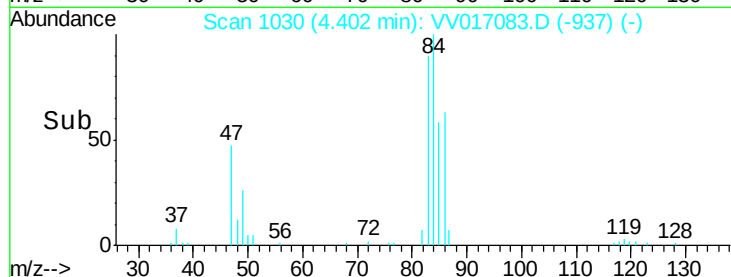
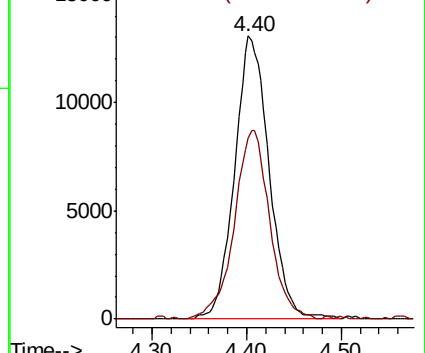
83 100

85 63.8 44.2 82.2



Abundance Ion 83.05 (82.75 to 83.75): VV017069.D (-1010) (-)

Ion 85.00 (84.70 to 85.70): VV017083.D (-937) (-)



#27

1,2-Dichloroethane

Concen: 0.141 ug/L

RT: 5.16 min Scan# 1267

Delta R.T. 0.01 min

Lab File: VV017083.D

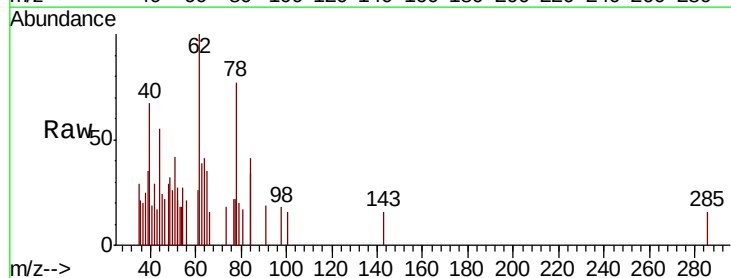
Acq: 24 Jun 2020 19:53

Tgt Ion: 62 Resp: 1809

Ion Ratio Lower Upper

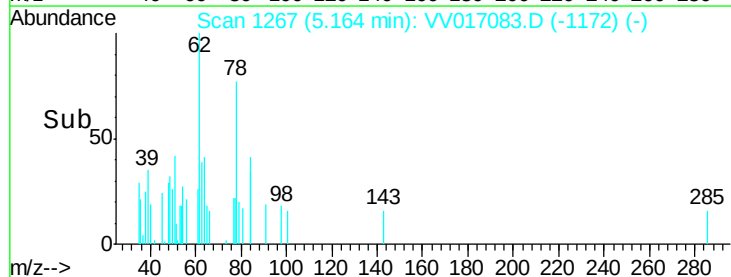
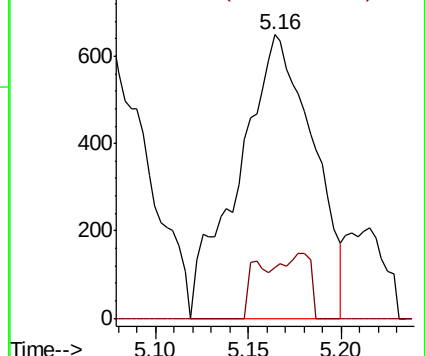
62 100

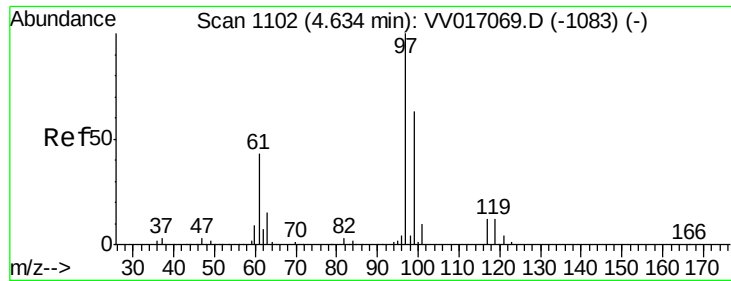
98 17.9 6.7 10.1#



Abundance Ion 62.00 (61.70 to 62.70): VV017069.D (-1247) (-)

Ion 98.05 (97.75 to 98.75): VV017083.D (-1172) (-)

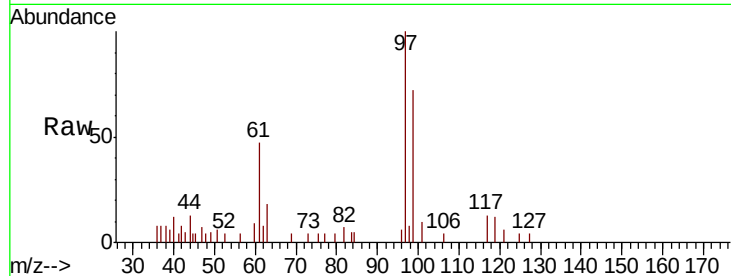




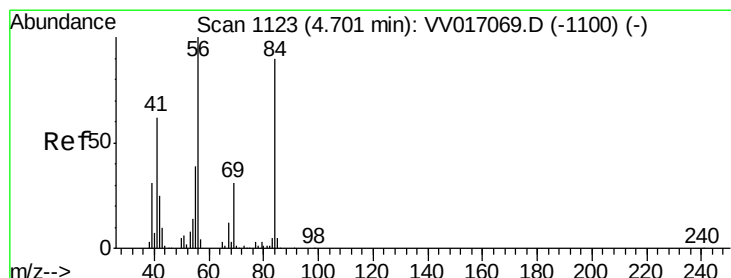
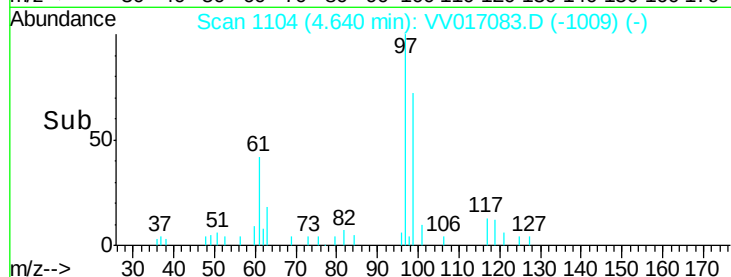
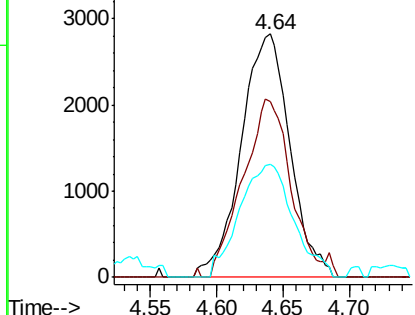
#29
 1,1,1-Trichloroethane
 Concen: 0.378 ug/L
 RT: 4.64 min Scan# 1104
 Delta R.T. 0.01 min
 Lab File: VV017083.D
 Acq: 24 Jun 2020 19:53

Instrument :
 MSVOA_V
 ClientSampled :
 BFXL0

Tot Ion: 97 Resp: 7239
 Ion Ratio Lower Upper
 97 100
 99 71.8 50.3 75.5
 61 51.2 36.0 54.0

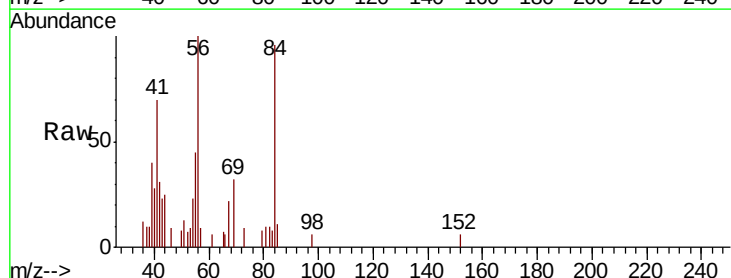


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

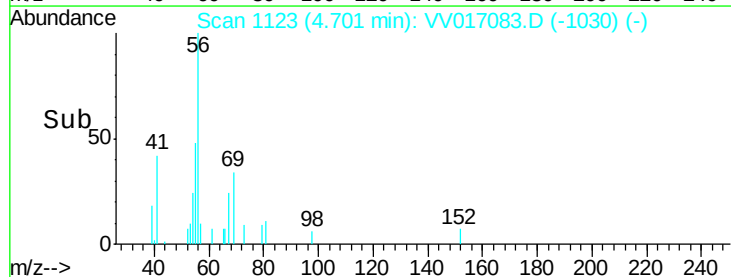
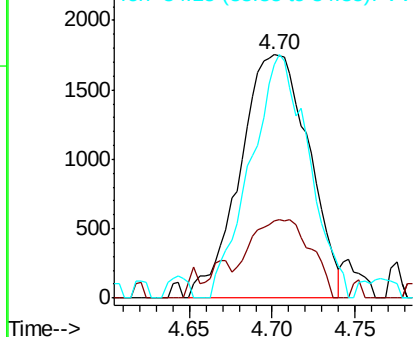


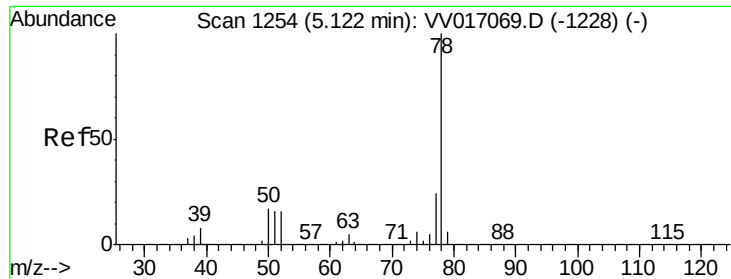
#30
 Cyclohexane
 Concen: 0.277 ug/L
 RT: 4.70 min Scan# 1123
 Delta R.T. -0.00 min
 Lab File: VV017083.D
 Acq: 24 Jun 2020 19:53

Tgt Ion: 56 Resp: 5038
 Ion Ratio Lower Upper
 56 100
 69 28.7 24.4 36.6
 84 85.3 69.9 104.9



Abundance Ion 56.10 (55.80 to 56.80): VV0
 Ion 69.15 (68.85 to 69.85): VV0
 Ion 84.15 (83.85 to 84.85): VV0





#33

Benzene

Concen: 0.166 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

Lab File: VV017083.D

Acq: 24 Jun 2020 19:53

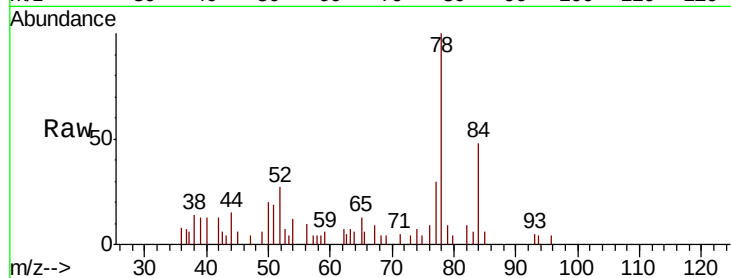
Instrument :

MSVOA_V

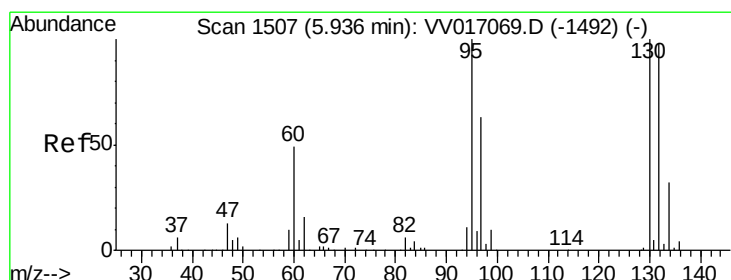
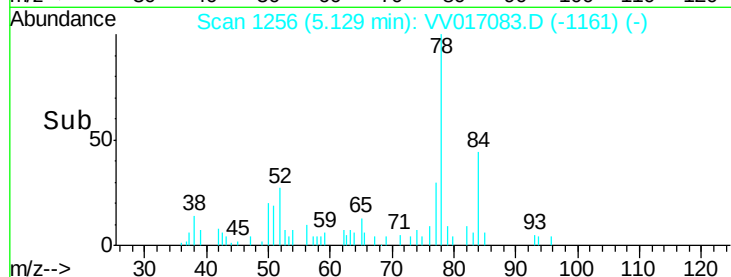
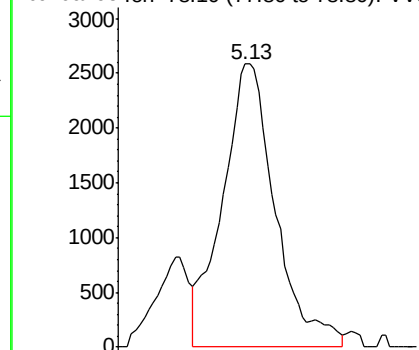
ClientSampleId :

BFXL0

Tgt Ion: 78 Resp: 6953



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 1.303 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV017083.D

Acq: 24 Jun 2020 19:53

Tgt Ion: 95 Resp: 15956

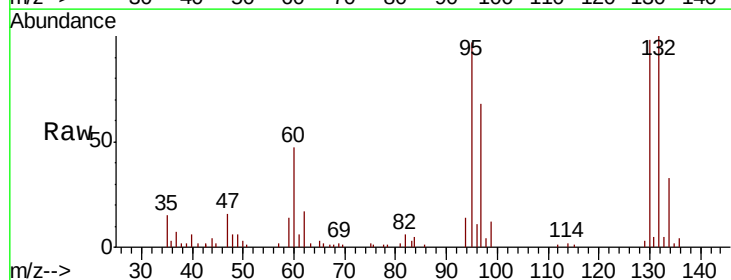
Ion	Ratio	Lower	Upper
95	100		
97	70.0	45.3	84.1
132	102.9	68.8	127.8
130	101.0	70.2	130.4

95 100

97 70.0 45.3 84.1

132 102.9 68.8 127.8

130 101.0 70.2 130.4

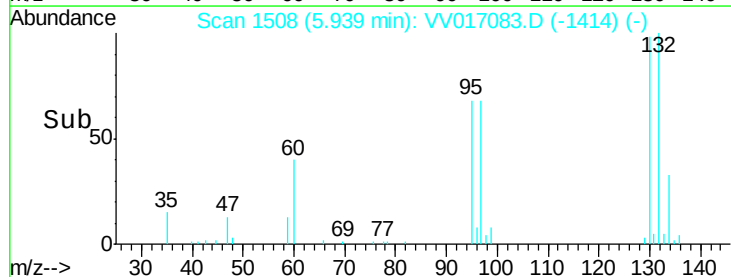
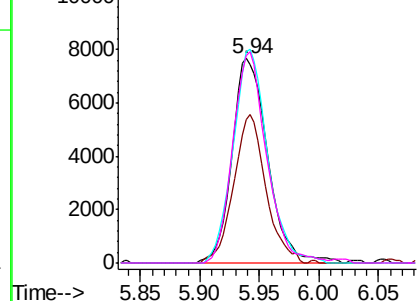


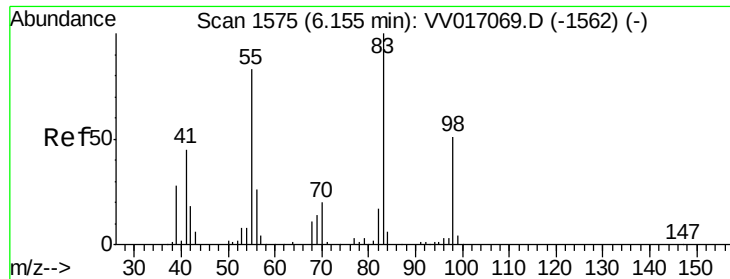
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

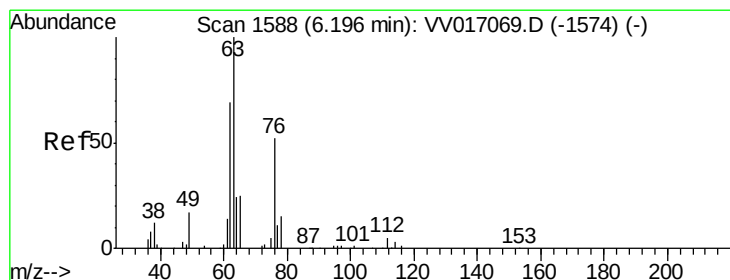
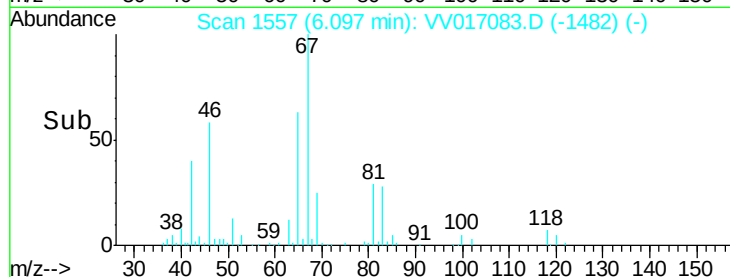
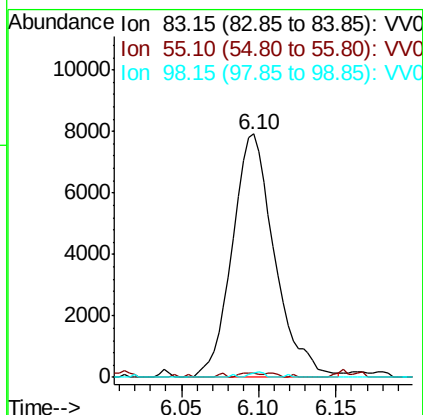
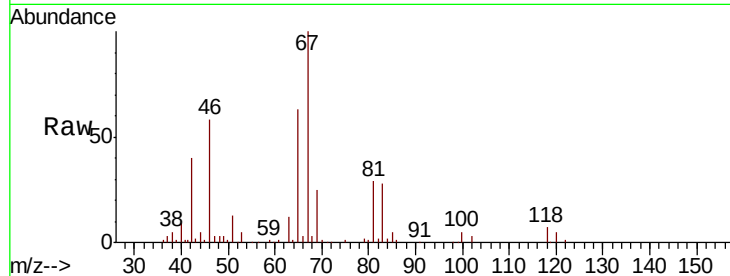




#35
Methvlcvclohexane
Concen: 0.791 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.06 min
Lab File: VV017083.D
Acq: 24 Jun 2020 19:53

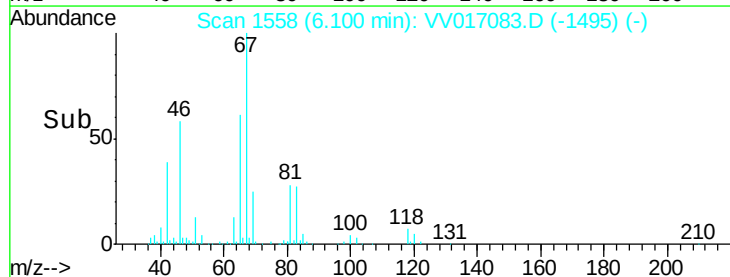
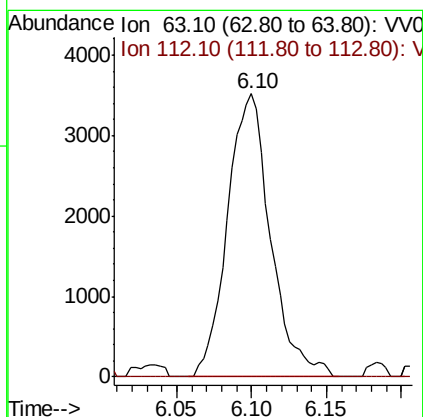
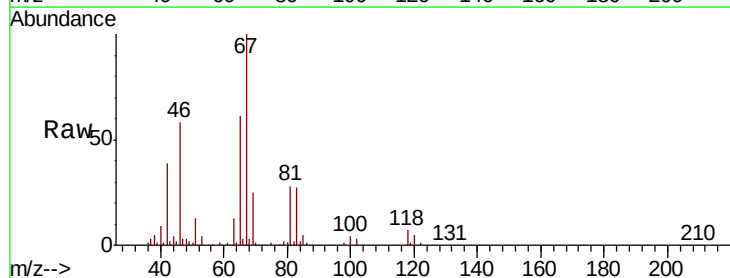
Instrument :
MSVOA_V
ClientSampleId :
BFXL0

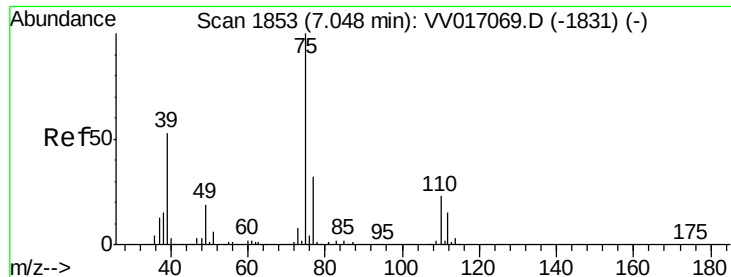
Tot Ion: 83 Resp: 15060
Ion Ratio Lower Upper
83 100
55 1.0 63.6 95.4#
98 0.7 38.8 58.2#



#37
1,2-Dichloropropane
Concen: 0.681 ug/L
RT: 6.10 min Scan# 1558
Delta R.T. -0.10 min
Lab File: VV017083.D
Acq: 24 Jun 2020 19:53

Tgt Ion: 63 Resp: 7052
Ion Ratio Lower Upper
63 100
112 1.2 4.4 6.6#





#39

cis-1,3-Dichloropropene

Concen: 0.109 ug/L

RT: 7.01 min Scan# 1840

Delta R.T. -0.04 min

Lab File: VV017083.D

Acq: 24 Jun 2020 19:53

Instrument :

MSVOA_V

ClientSampleId :

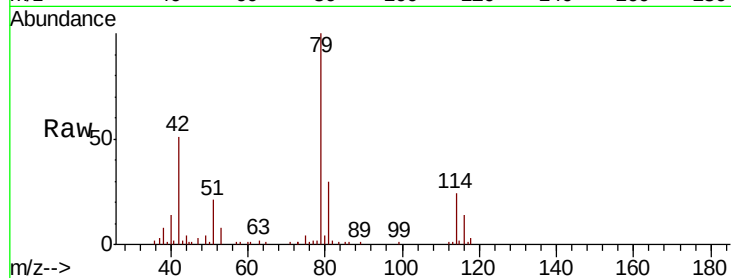
BFXL0

Tot Ion: 75 Resp: 1670

Ion Ratio Lower Upper

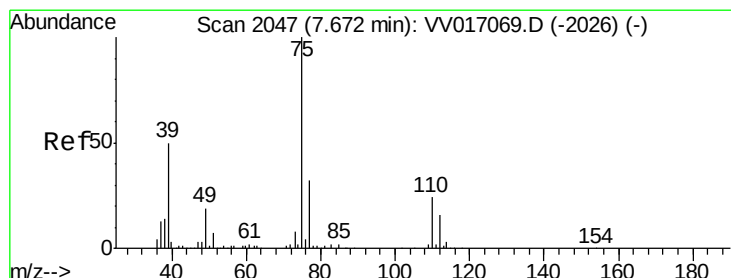
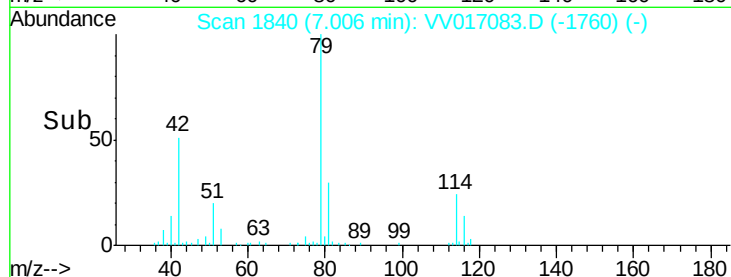
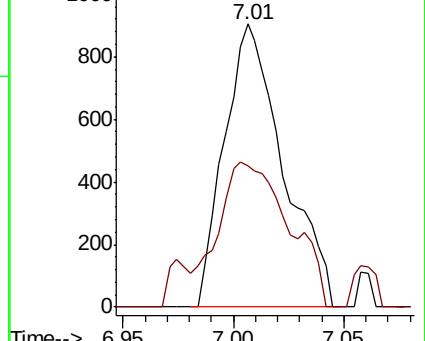
75 100

77 49.8 22.3 41.5#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#46

trans-1,3-Dichloropropene

Concen: 0.101 ug/L

RT: 7.64 min Scan# 2037

Delta R.T. -0.03 min

Lab File: VV017083.D

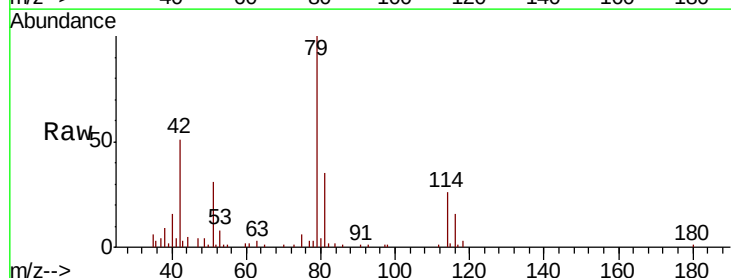
Acq: 24 Jun 2020 19:53

Tgt Ion: 75 Resp: 1339

Ion Ratio Lower Upper

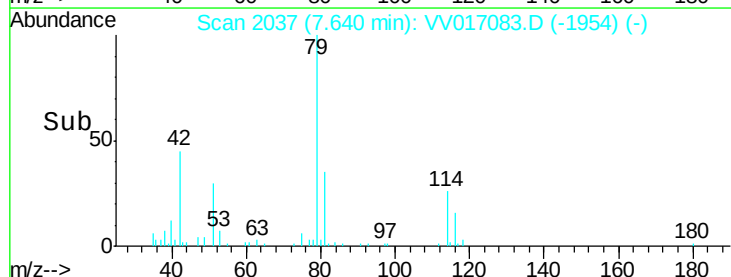
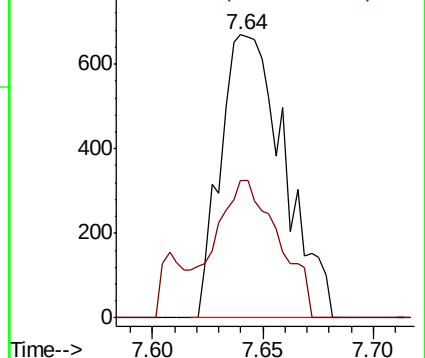
75 100

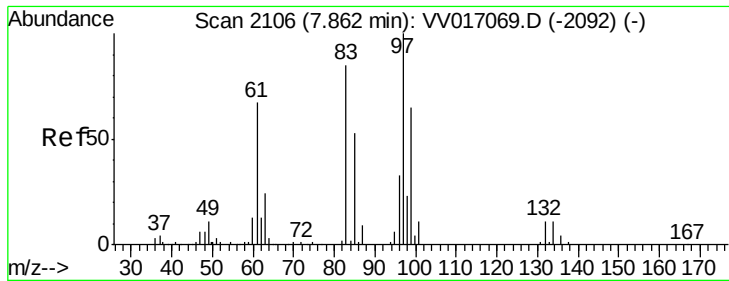
77 48.4 22.3 41.3#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

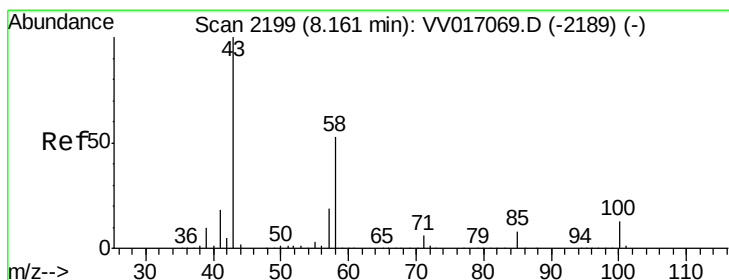
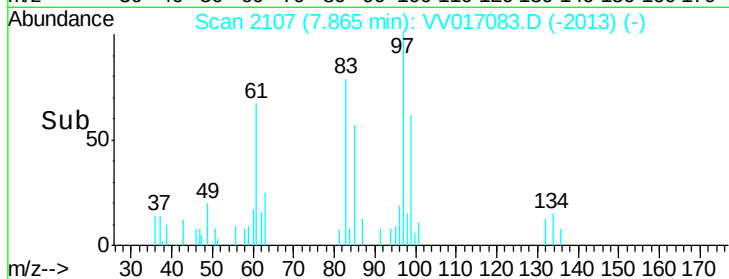
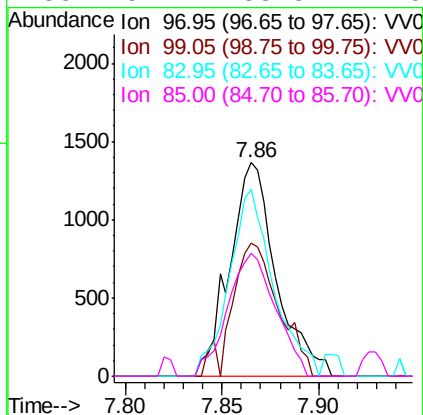
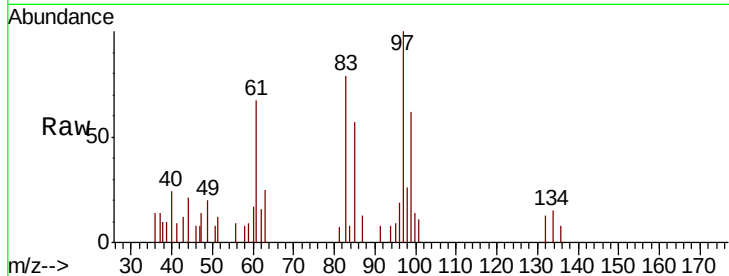




#47
 1,1,2-Trichloroethane
 Concen: 0.312 ug/L
 RT: 7.86 min Scan# 2107
 Delta R.T. 0.00 min
 Lab File: VV017083.D
 Acq: 24 Jun 2020 19:53

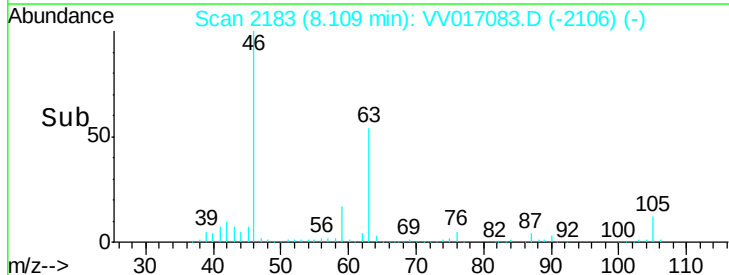
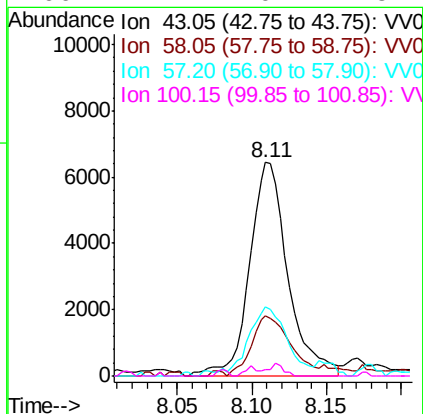
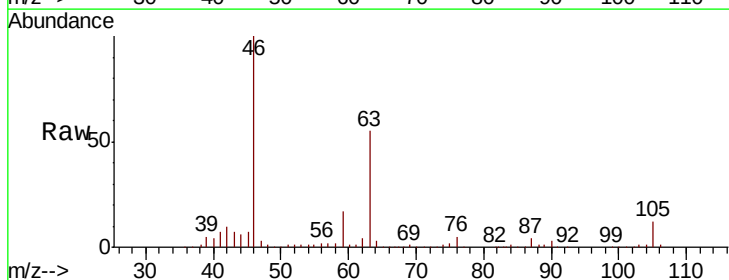
Instrument :
 MSVOA_V
 ClientSampleId :
 BFXL0

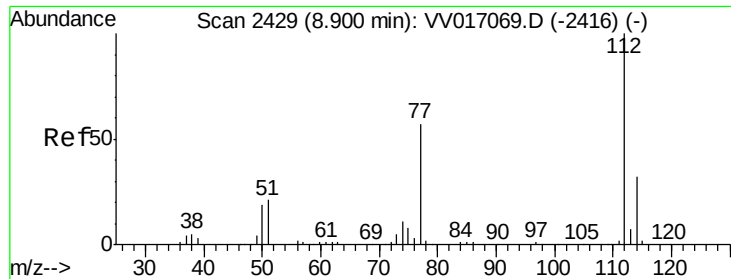
Tot Ion:	97	Resp:	2288
Ion	Ratio	Lower	Upper
97	100		
99	62.2	43.6	81.0
83	87.7	57.4	106.6
85	57.4	38.8	72.0



#50
 2-Hexanone
 Concen: 2.700 ug/L
 RT: 8.11 min Scan# 2183
 Delta R.T. -0.05 min
 Lab File: VV017083.D
 Acq: 24 Jun 2020 19:53

Tgt Ion:	43	Resp:	11486
Ion	Ratio	Lower	Upper
43	100		
58	28.4	41.6	62.4#
57	32.4	15.4	23.0#
100	2.2	10.1	15.1#





#53

Chlorobenzene

Concen: 3.960 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV017083.D

Acq: 24 Jun 2020 19:53

Instrument :

MSVOA_V

ClientSampleId :

BFXL0

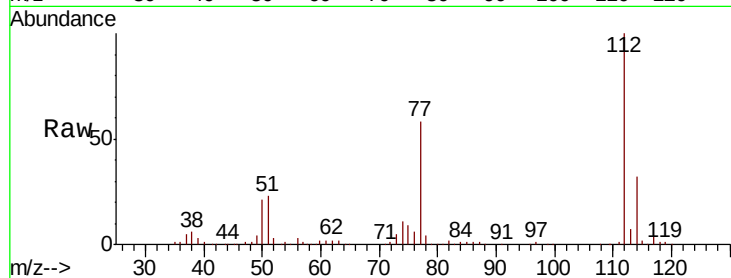
Tot Ion:112 Resp: 120025

Ion Ratio Lower Upper

112 100

114 31.7 22.0 41.0

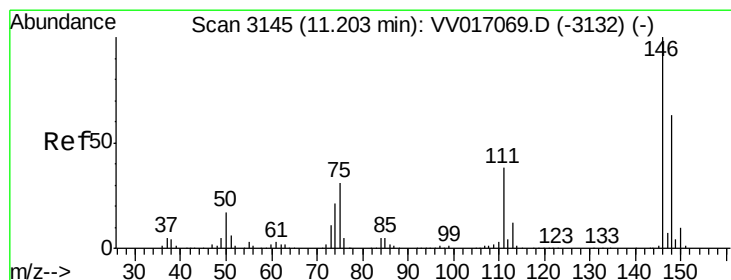
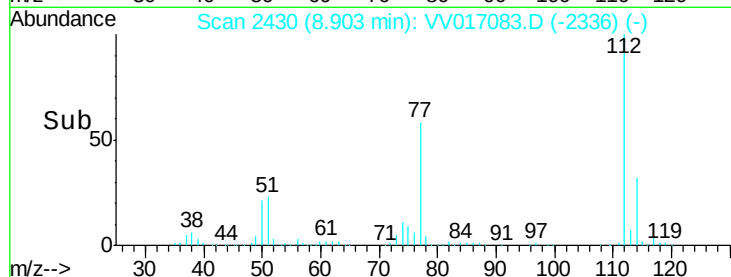
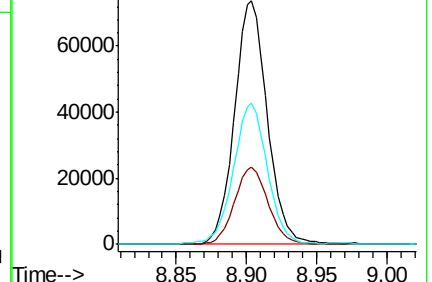
77 57.9 46.0 69.0



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): V



#63

1,3-Dichlorobenzene

Concen: 0.207 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV017083.D

Acq: 24 Jun 2020 19:53

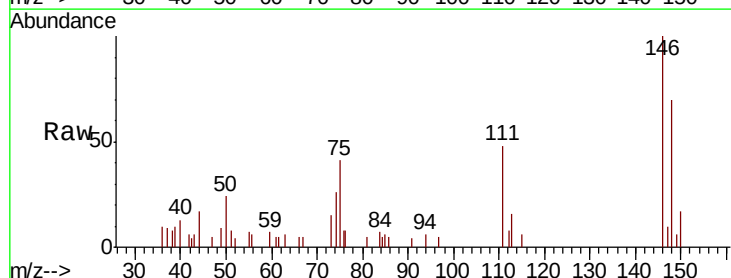
Tgt Ion:146 Resp: 4595

Ion Ratio Lower Upper

146 100

111 48.5 29.2 54.2

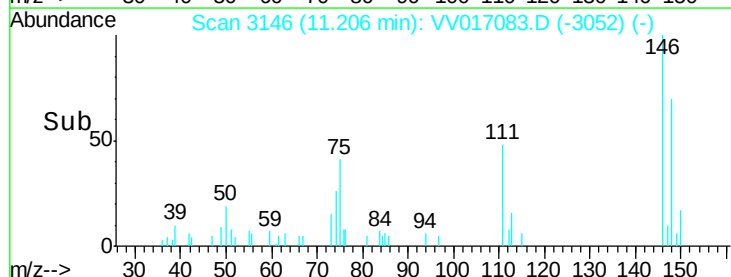
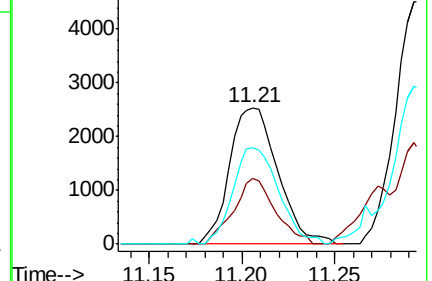
148 70.2 44.9 83.5

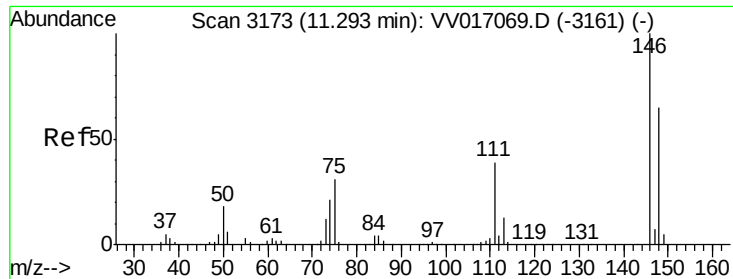


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

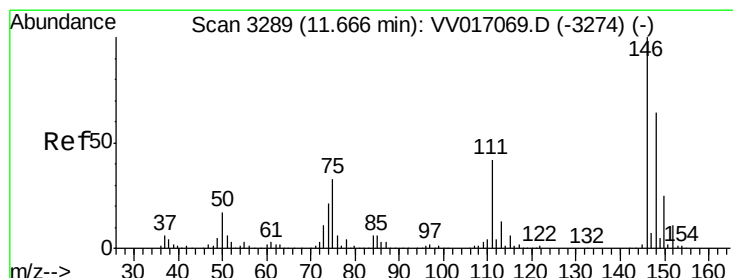
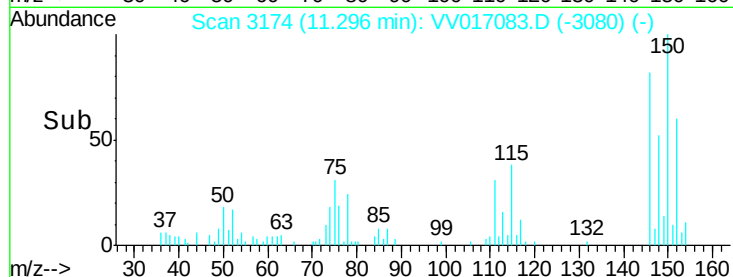
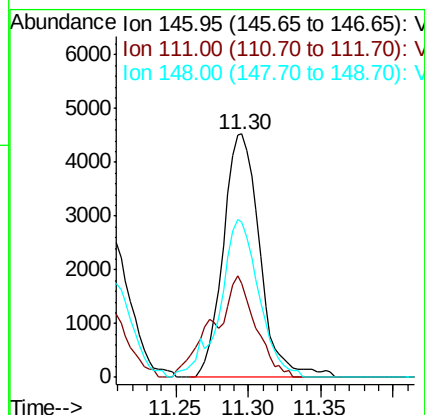
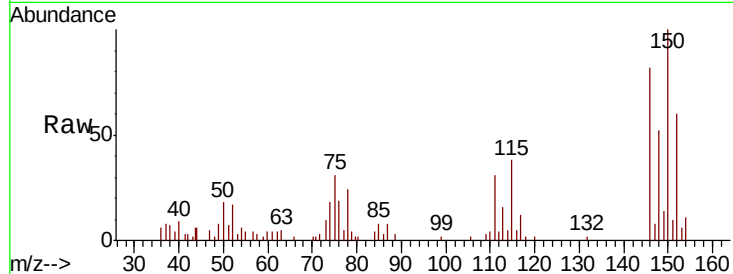




#64
 1,4-Dichlorobenzene
 Concen: 0.351 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV017083.D
 Acq: 24 Jun 2020 19:53

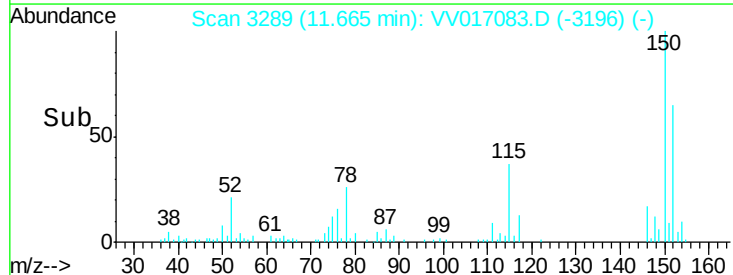
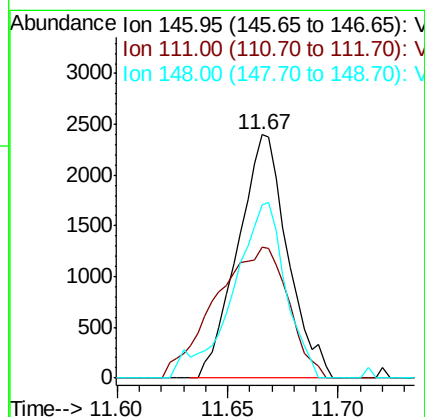
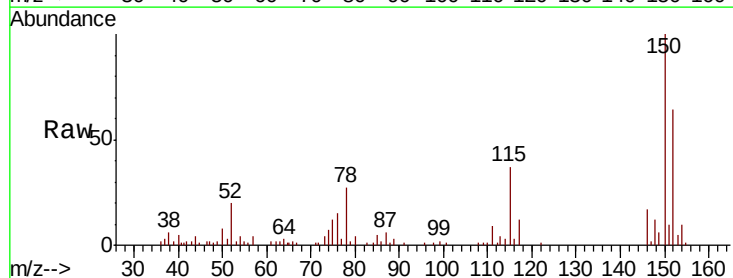
Instrument :
 MSVOA_V
 ClientSampled :
 BFXL0

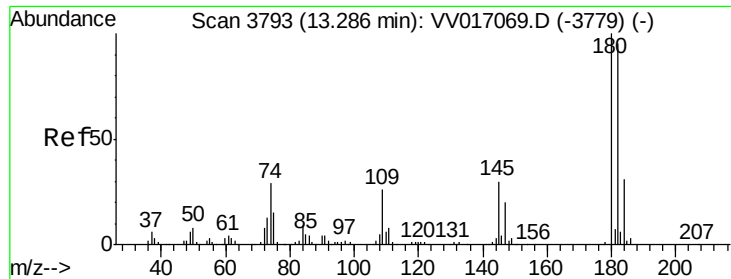
Tot Ion:146 Resp: 7903
 Ion Ratio Lower Upper
 146 100
 111 38.5 27.4 50.8
 148 63.6 44.3 82.3



#66
 1,2-Dichlorobenzene
 Concen: 0.186 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. -0.00 min
 Lab File: VV017083.D
 Acq: 24 Jun 2020 19:53

Tgt Ion:146 Resp: 3753
 Ion Ratio Lower Upper
 146 100
 111 54.0 34.4 51.6#
 148 71.2 49.9 74.9

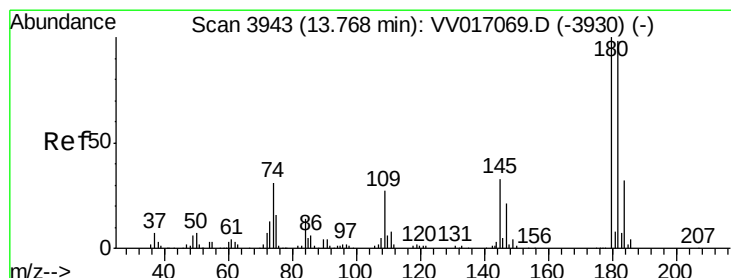
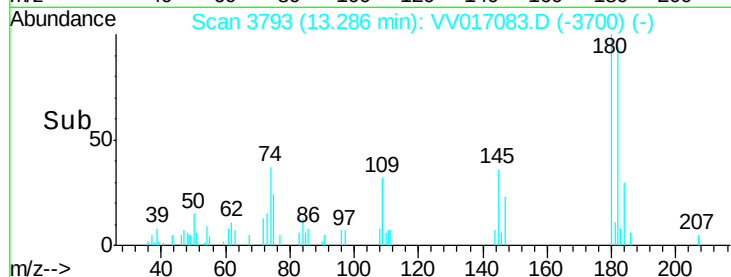
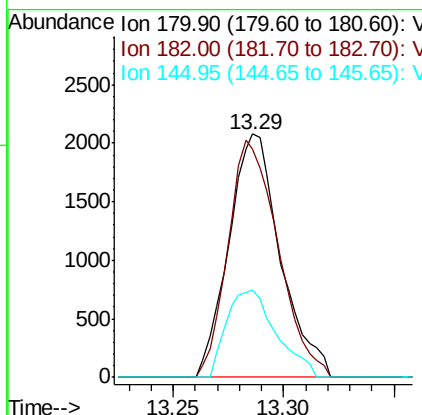
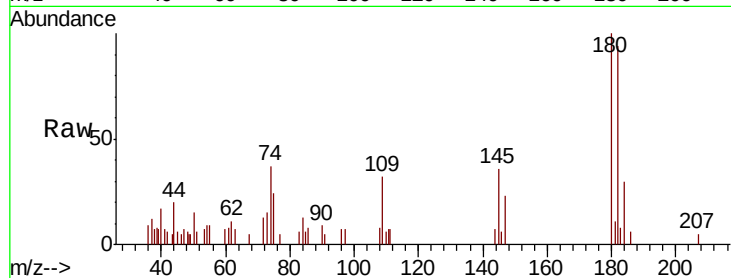




#69
 1,2,4-trichlorobenzene
 Concen: 0.231 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. -0.00 min
 Lab File: VV017083.D
 Acq: 24 Jun 2020 19:53

Instrument :
 MSVOA_V
 ClientSampled :
 BFXL0

Tot Ion:180 Resp: 3387
 Ion Ratio Lower Upper
 180 100
 182 94.7 76.6 114.8
 145 34.4 25.0 37.6



#71
 1,2,3-Trichlorobenzene
 Concen: 0.512 ug/L
 RT: 13.77 min Scan# 3943
 Delta R.T. -0.00 min
 Lab File: VV017083.D
 Acq: 24 Jun 2020 19:53

Tgt Ion:180 Resp: 6120
 Ion Ratio Lower Upper
 180 100
 182 99.4 77.4 116.0
 145 35.0 25.9 38.9

