

Data File : VV014398.D
Acq On : 24 Jan 2020 19:10
Operator : SY/MD
Sample : L1253-08
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
H0AC5

Quant Time: Jan 25 00:24:55 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR010220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jan 25 00:18:39 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	369536	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	343061	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	154454	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.33	65	100718	3.90	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.00%
7) Chloroethane-d5	1.59	69	87486	4.38	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.60%
11) 1,1-Dichloroethene-d2	2.13	63	107107	2.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.20%#
20) 2-Butanone-d5	3.93	46	688682	110.88	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	221.76%#
24) Chloroform-d	4.40	84	229040	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.60%
26) 1,2-Dichloroethane-d4	5.08	65	142564	5.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	113.80%
32) Benzene-d6	5.10	84	423389	4.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.60%
36) 1,2-Dichloropropane-d6	6.12	67	153645	4.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.80%
41) Toluene-d8	7.36	98	330614	3.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	70.60%
43) trans-1,3-Dichloropropene-	7.66	79	65775	4.69	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.80%
46) 2-Hexanone-d5	8.14	63	612009	102.95	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	205.90%#
57) 1,1,2,2-Tetrachloroethane-	10.26	84	179606	8.09	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	161.80%#
64) 1,2-Dichlorobenzene-d4	11.67	152	134815	4.65	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.00%

Target Compounds

					Qvalue
3) Chloromethane	1.26	50	2378	0.086 ug/L	86
5) Vinyl chloride	1.14	62	3900	0.151 ug/L	86
8) Chloroethane	1.53	64	494148	34.004 ug/L #	52
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	1316	0.080 ug/L #	58
12) 1,1-Dichloroethene	2.14	96	4157	0.252 ug/L #	1
13) Acetone	2.19	43	50707	11.855 ug/L	95
14) Carbon disulfide	2.32	76	54847	0.749 ug/L	97
15) Methyl Acetate	2.46	43	121611	12.213 ug/L	98
16) Methylene chloride	2.54	84	69661	2.592 ug/L	94
18) trans-1,2-Dichloroethene	2.80	96	27809	1.121 ug/L	97
19) 1,1-Dichloroethane	3.23	63	78163	1.607 ug/L	93
21) 2-Butanone	4.03	43	64378	10.034 ug/L #	68
22) cis-1,2-Dichloroethene	3.96	96	6240904	229.408 ug/L #	98
25) Chloroform	4.42	83	11722	0.252 ug/L	93
27) 1,2-Dichloroethane	5.20	62	6262	0.225 ug/L #	51
29) 1,1,1-Trichloroethane	4.66	97	4205	0.103 ug/L #	85
33) Benzene	5.15	78	12810	0.121 ug/L	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV012420\
Quantitation Report (Not Reviewed)

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QLast Update : Sat Jan 25 00:18:39 2020
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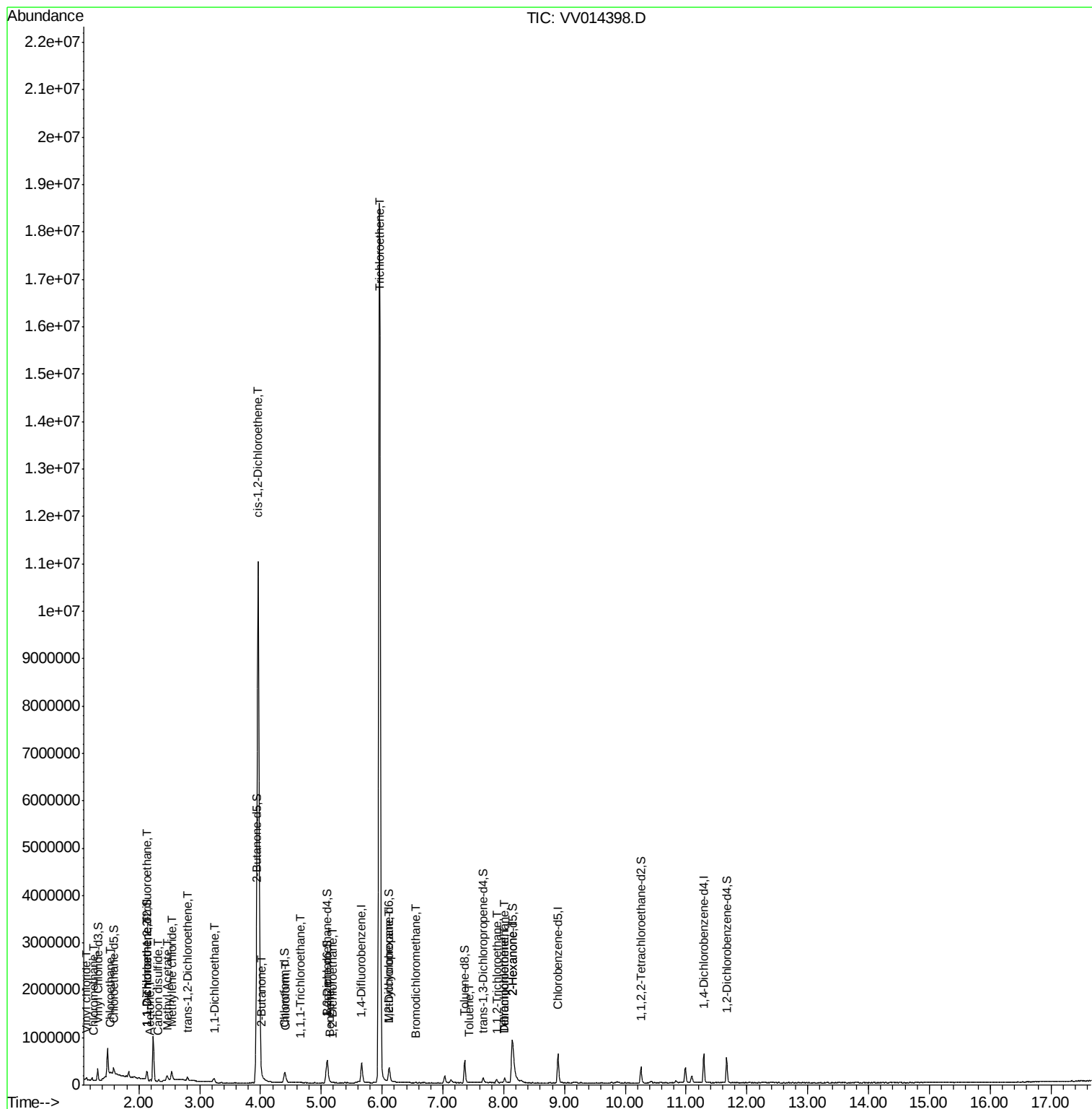
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Trichloroethene	5.96	95	6758232	248.917	ug/L	97
35) Methylcyclohexane	6.12	83	34530	0.778	ug/L #	18
38) Bromodichloromethane	6.56	83	1707	0.050	ug/L #	64
42) Toluene	7.43	91	8376	0.075	ug/L	95
45) 1,1,2-Trichloroethane	7.88	97	24694	1.450	ug/L	97
47) Tetrachloroethene	8.02	164	22871	1.233	ug/L	97
48) 2-Hexanone	8.14	43	80505	6.924	ug/L #	37
49) Dibromochloromethane	8.01	129	21753	1.010	ug/L #	13

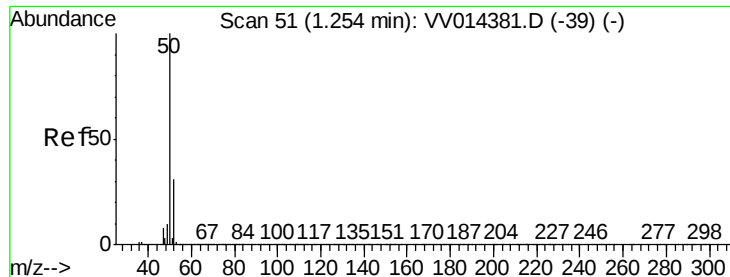
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.086 ug/L

RT: 1.26 min Scan# 53

Delta R.T. 0.01 min

Lab File: VV014398.D

Acq: 24 Jan 2020 19:10

Instrument :

MSVOA_V

ClientSampled :

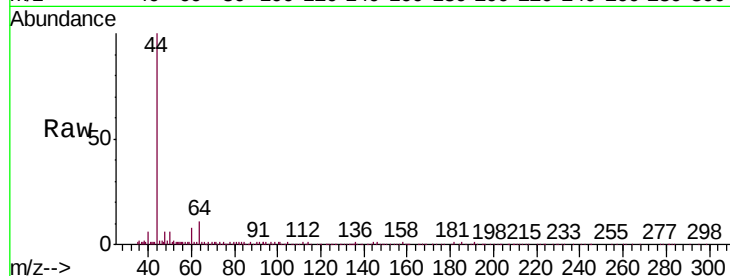
H0AC5

Tgt Ion: 50 Resp: 2378

Ion Ratio Lower Upper

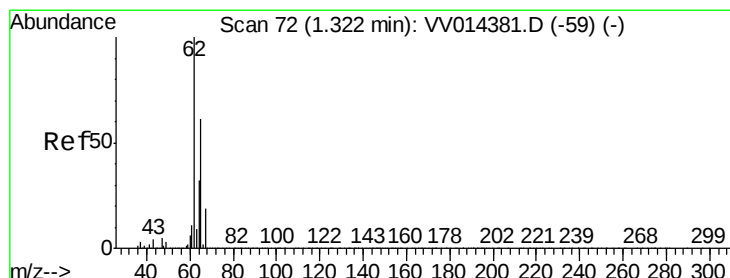
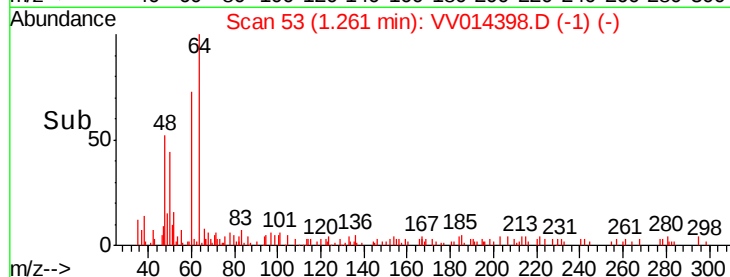
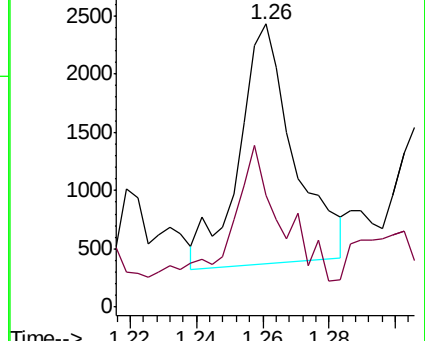
50 100

52 39.5 22.3 41.3



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#5

Vinyl chloride

Concen: 0.151 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.19 min

Lab File: VV014398.D

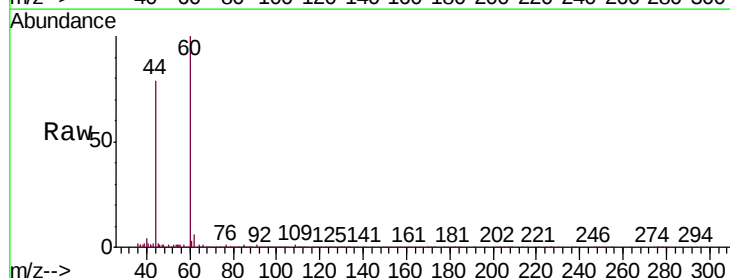
Acq: 24 Jan 2020 19:10

Tgt Ion: 62 Resp: 3900

Ion Ratio Lower Upper

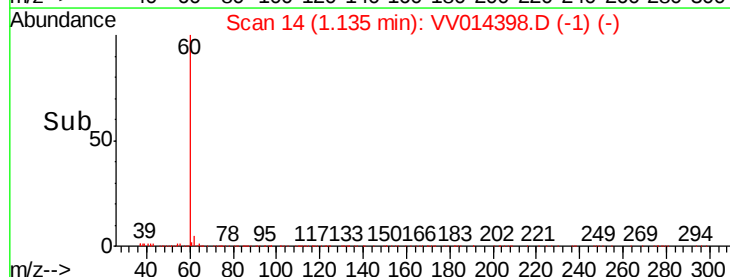
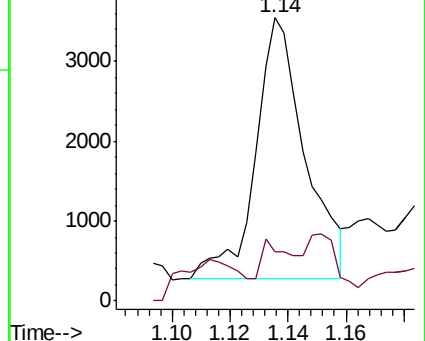
62 100

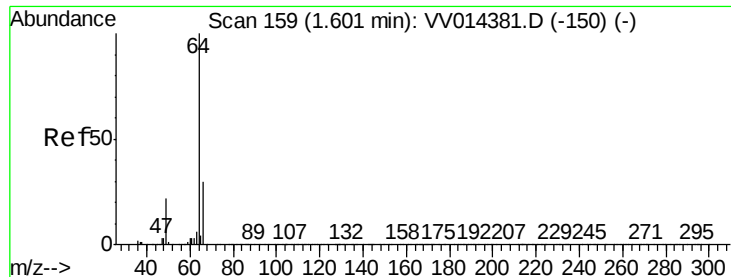
64 25.0 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0





#8

Chloroethane

Concen: 34.004 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.07 min

Lab File: VV014398.D

Acq: 24 Jan 2020 19:10

Instrument :

MSVOA_V

ClientSampled :

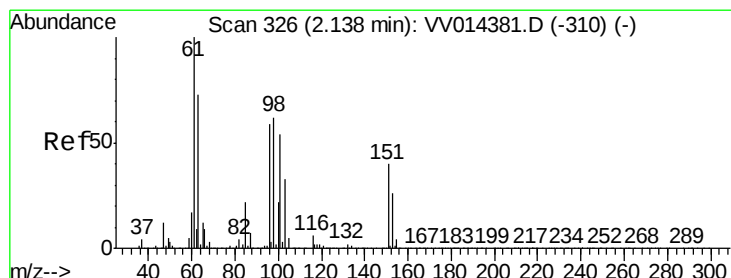
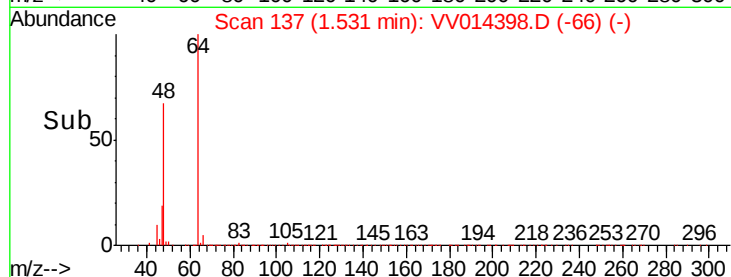
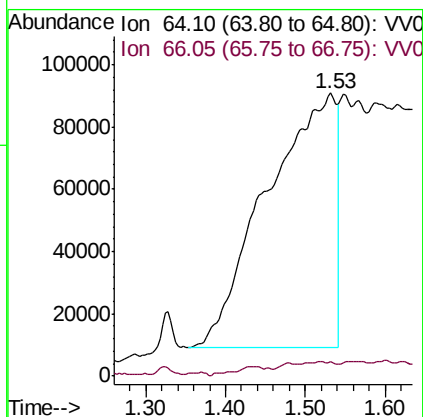
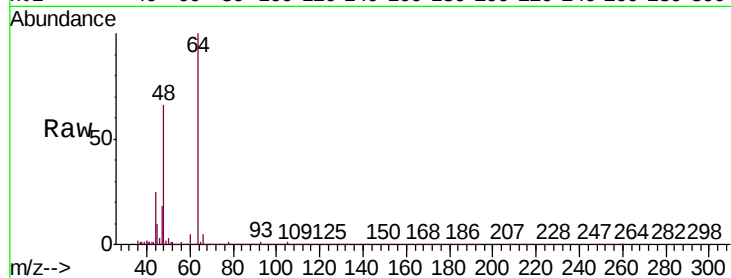
H0AC5

Tgt Ion: 64 Resp: 494148

Ion Ratio Lower Upper

64 100

66 5.0 21.8 40.6#



#10

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

Concen: 0.080 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014398.D

Acq: 24 Jan 2020 19:10

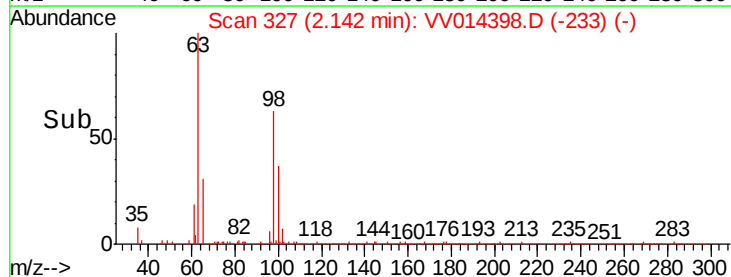
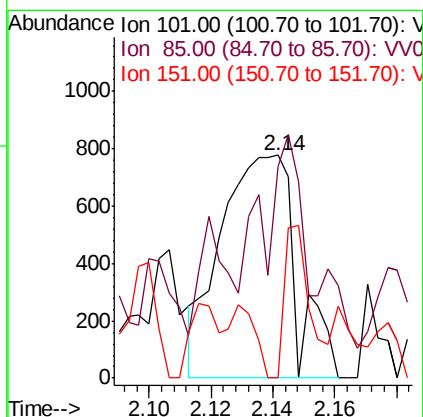
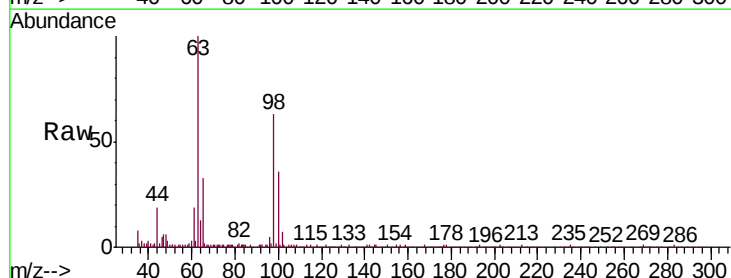
Tgt Ion: 101 Resp: 1316

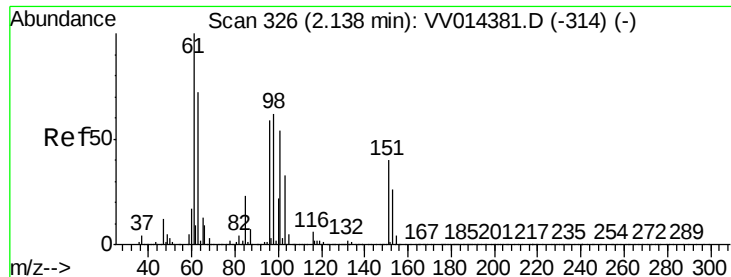
Ion Ratio Lower Upper

101 100

85 45.8 34.9 52.3

151 22.7 62.5 93.7#





#12

1,1-Dichloroethene

Concen: 0.252 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014398.D

Acq: 24 Jan 2020 19:10

Instrument :

MSVOA_V

ClientSampleId :

H0AC5

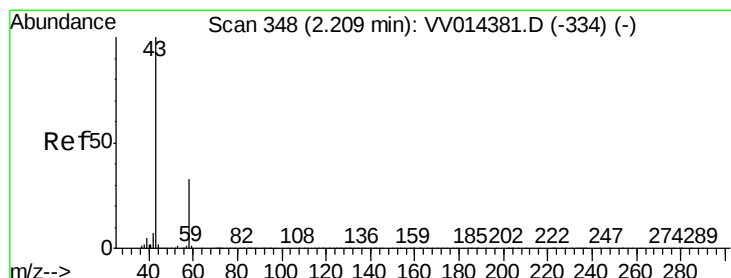
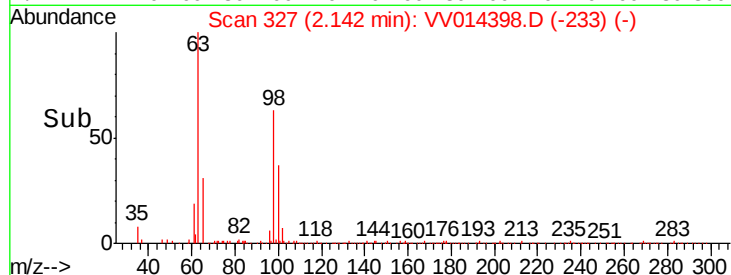
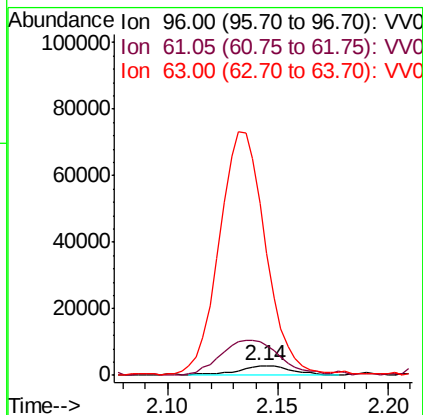
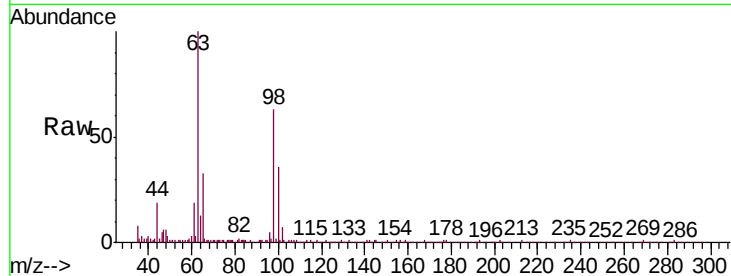
Tgt Ion: 96 Resp: 4157

Ion Ratio Lower Upper

96 100

61 352.5 121.5 225.7#

63 1826.1 90.3 167.7#



#13

Acetone

Concen: 11.855 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.02 min

Lab File: VV014398.D

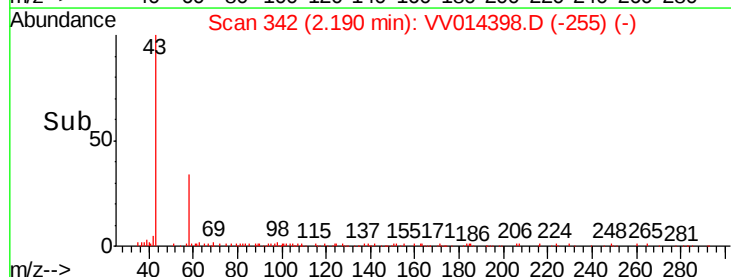
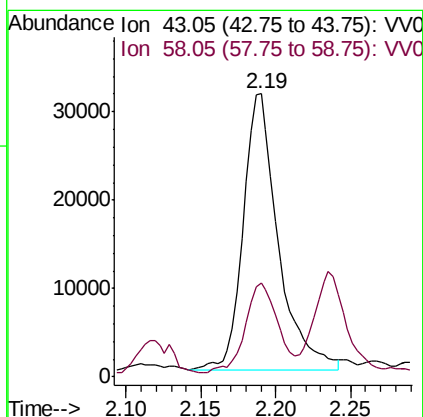
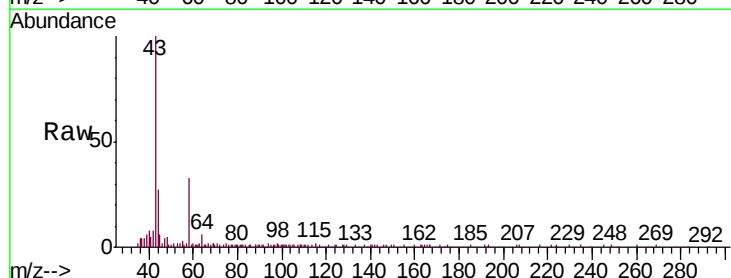
Acq: 24 Jan 2020 19:10

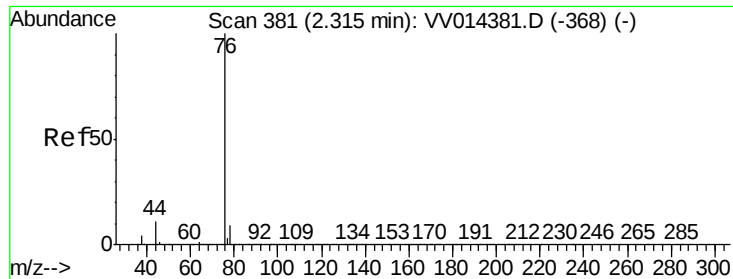
Tgt Ion: 43 Resp: 50707

Ion Ratio Lower Upper

43 100

58 30.1 0.0 66.0





#14

Carbon disulfide

Concen: 0.749 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.01 min

Lab File: VV014398.D

Acq: 24 Jan 2020 19:10

Instrument :

MSVOA_V

ClientSampleId :

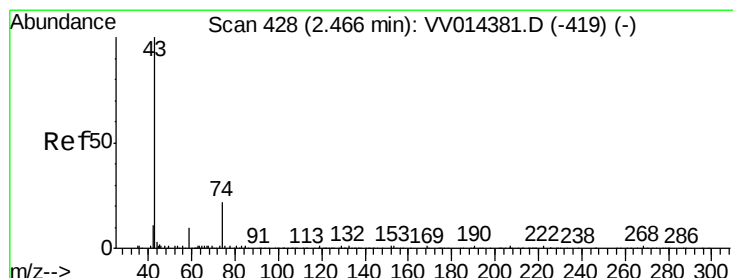
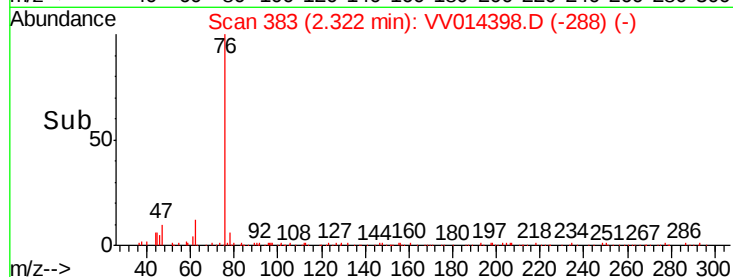
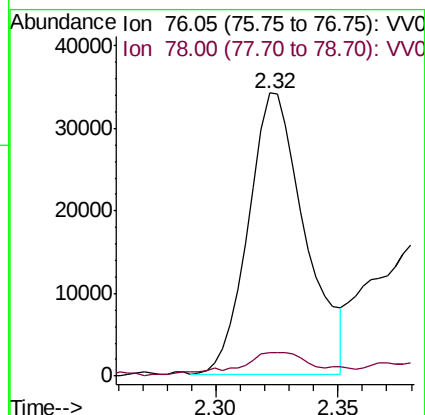
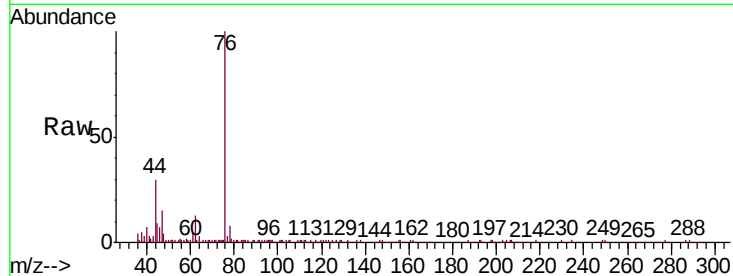
H0AC5

Tgt Ion: 76 Resp: 54847

Ion Ratio Lower Upper

76 100

78 8.2 7.5 11.3



#15

Methyl Acetate

Concen: 12.213 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VV014398.D

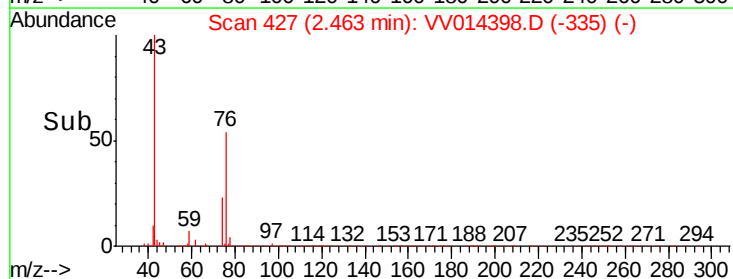
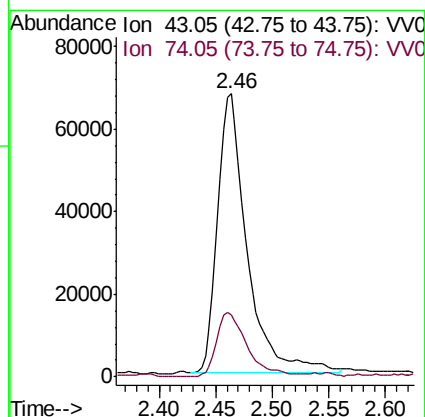
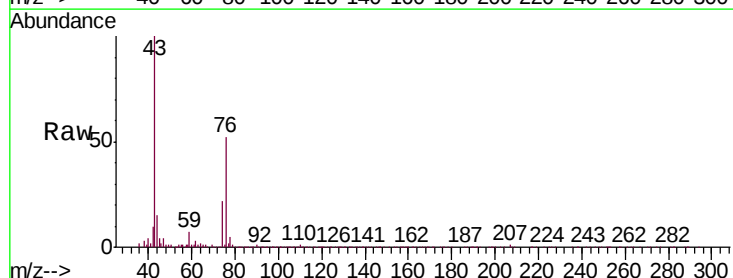
Acq: 24 Jan 2020 19:10

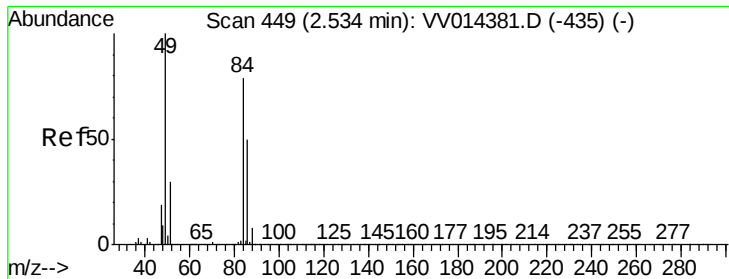
Tgt Ion: 43 Resp: 121611

Ion Ratio Lower Upper

43 100

74 24.5 18.6 28.0

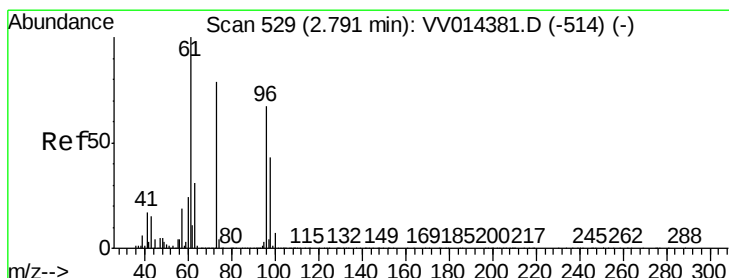
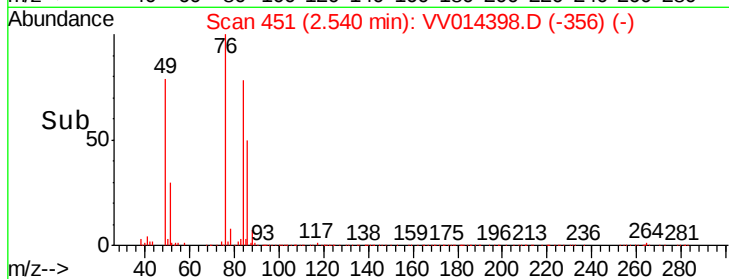
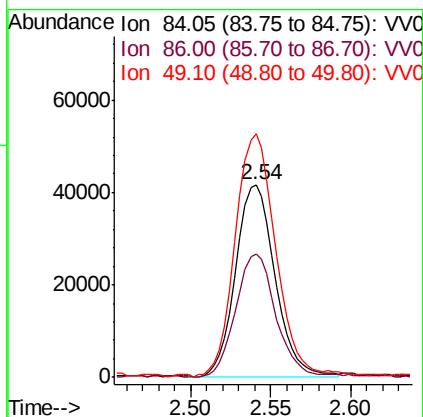
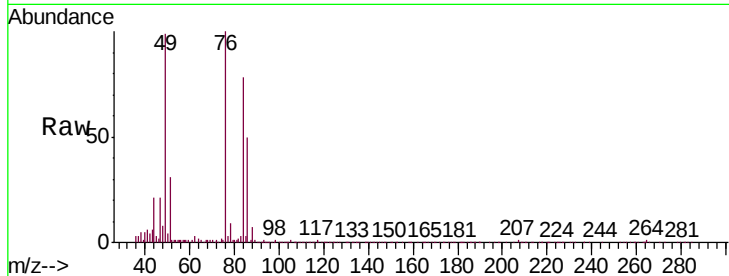




#16
Methylene chloride
Concen: 2.592 ug/L
RT: 2.54 min Scan# 451
Delta R.T. 0.01 min
Lab File: VV014398.D
Acq: 24 Jan 2020 19:10

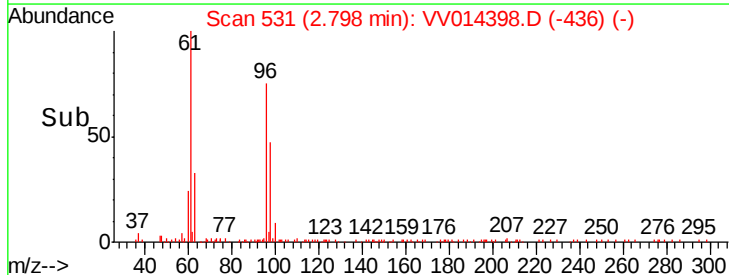
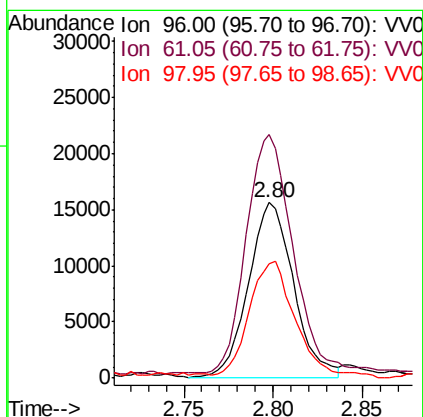
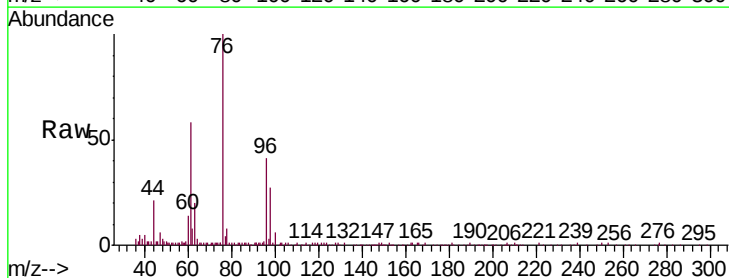
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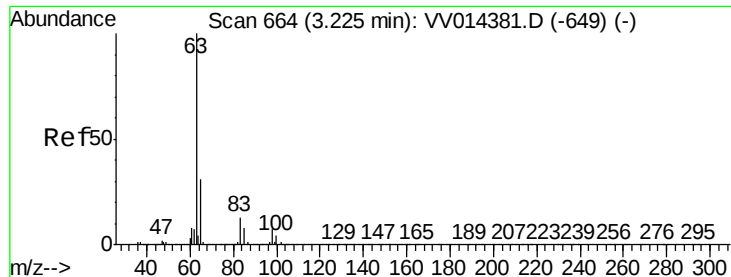
Tgt Ion: 84 Resp: 69661
Ion Ratio Lower Upper
84 100
86 64.0 43.1 80.1
49 126.3 82.1 152.5



#18
trans-1,2-Dichloroethene
Concen: 1.121 ug/L
RT: 2.80 min Scan# 531
Delta R.T. 0.01 min
Lab File: VV014398.D
Acq: 24 Jan 2020 19:10

Tgt Ion: 96 Resp: 27809
Ion Ratio Lower Upper
96 100
61 138.8 99.2 184.2
98 65.1 43.1 80.1

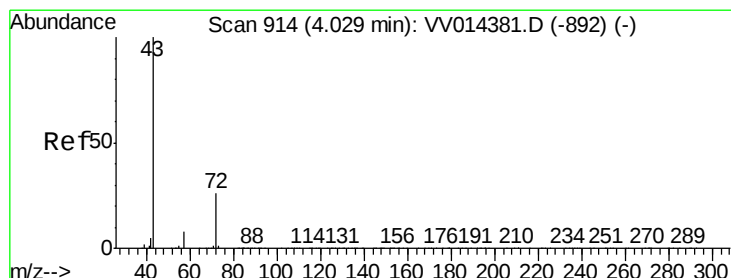
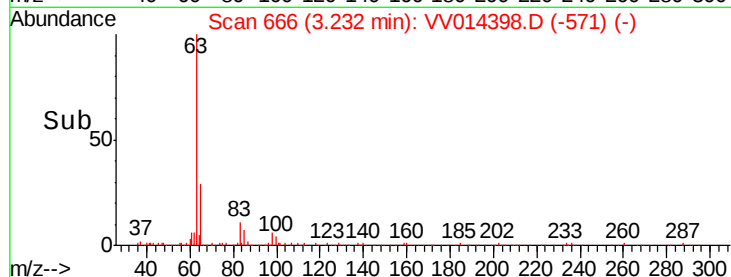
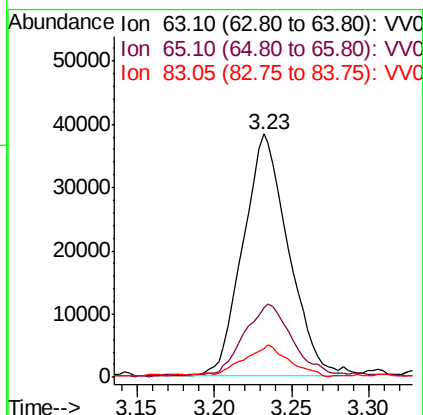
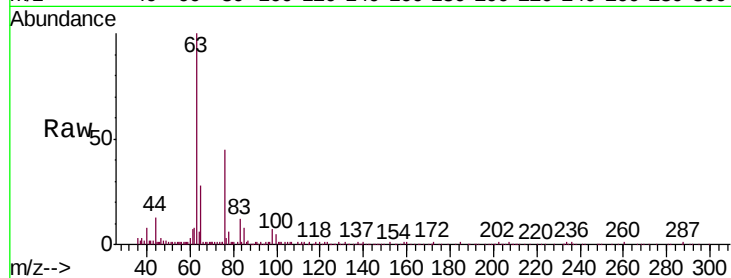




#19
 1,1-Dichloroethane
 Concen: 1.607 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.01 min
 Lab File: VV014398.D
 Acq: 24 Jan 2020 19:10

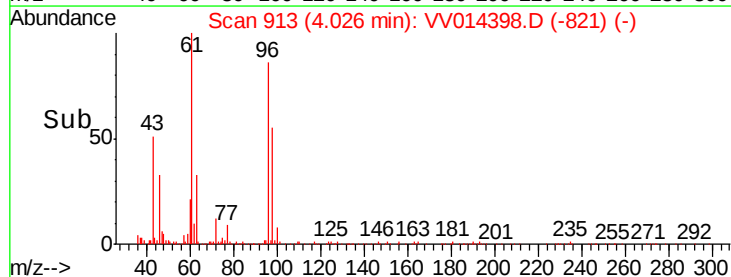
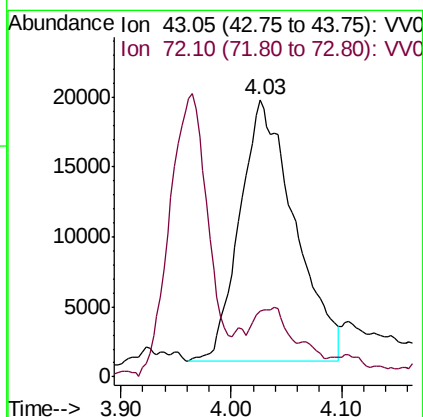
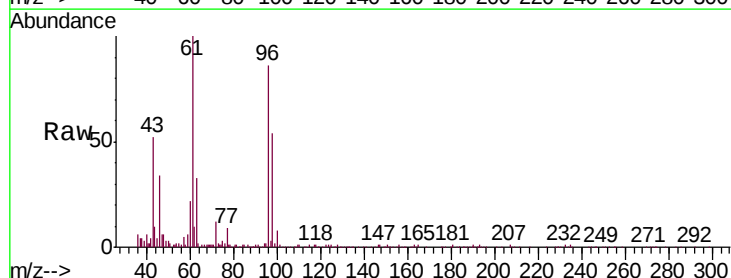
Instrument :
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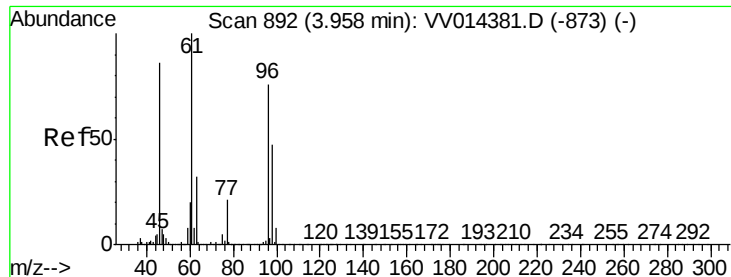
Tgt Ion: 63 Resp: 78163
 Ion Ratio Lower Upper
 63 100
 65 28.5 22.7 42.3
 83 11.7 10.0 18.6



#21
 2-Butanone
 Concen: 10.034 ug/L
 RT: 4.03 min Scan# 913
 Delta R.T. -0.00 min
 Lab File: VV014398.D
 Acq: 24 Jan 2020 19:10

Tgt Ion: 43 Resp: 64378
 Ion Ratio Lower Upper
 43 100
 72 8.6 12.4 37.2#





#22

cis-1,2-Dichloroethene

Concen: 229.408 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VV014398.D

Acq: 24 Jan 2020 19:10

Instrument :

MSVOA_V

ClientSampleId :

H0AC5

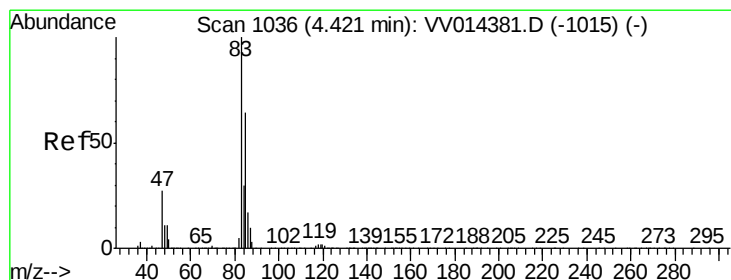
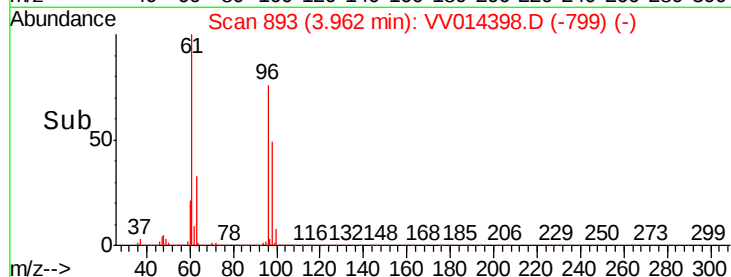
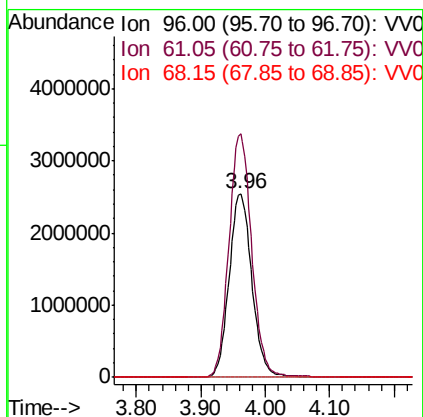
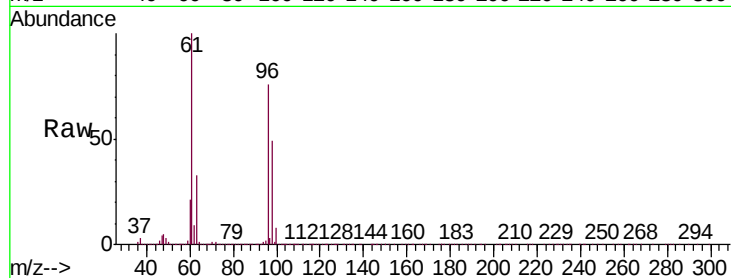
Tgt Ion: 96 Resp: 6240904

Ion Ratio Lower Upper

96 100

61 132.3 90.6 168.3

68 0.0 0.3 0.7#



#25

Chloroform

Concen: 0.252 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV014398.D

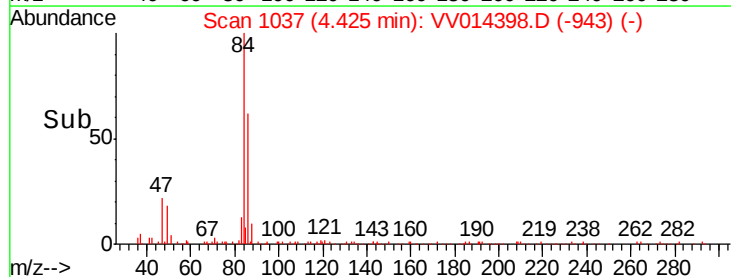
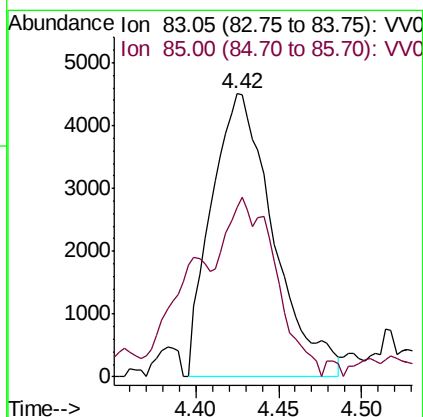
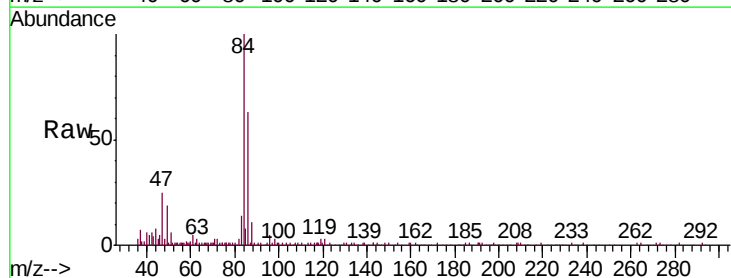
Acq: 24 Jan 2020 19:10

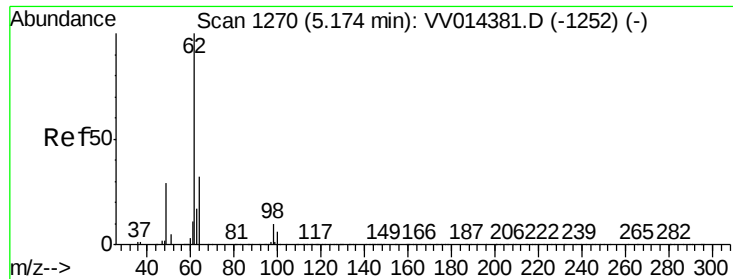
Tgt Ion: 83 Resp: 11722

Ion Ratio Lower Upper

83 100

85 60.1 46.2 85.8

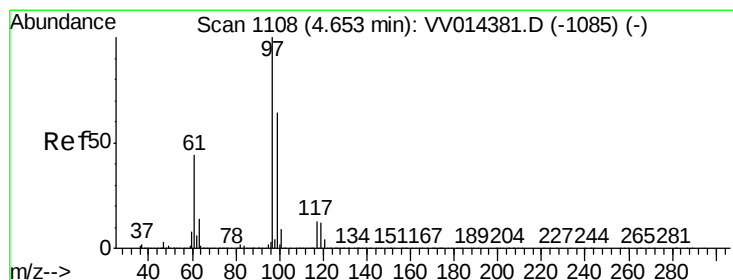
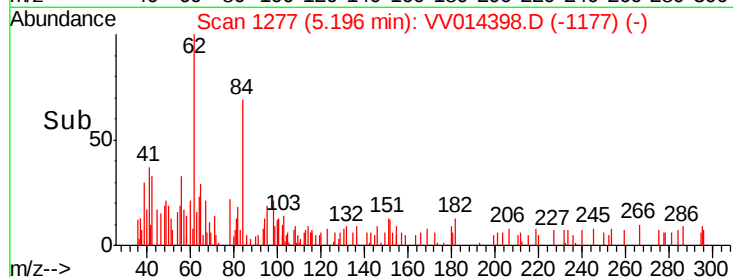
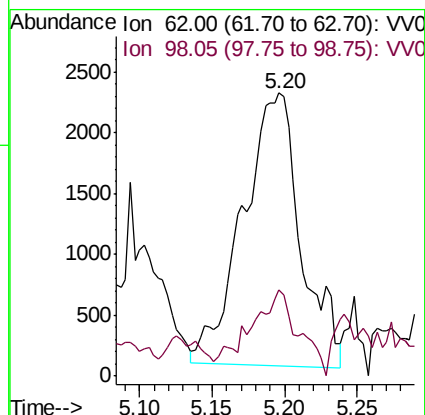
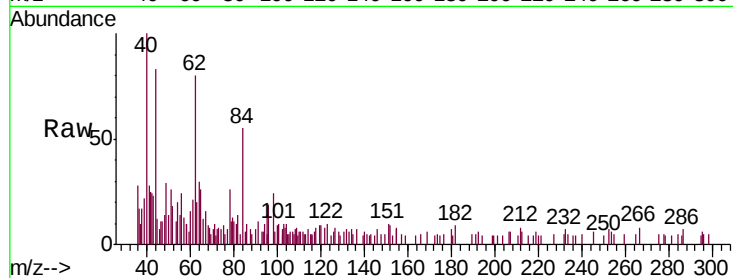




#27
 1,2-Dichloroethane
 Concen: 0.225 ug/L
 RT: 5.20 min Scan# 1277
 Delta R.T. 0.02 min
 Lab File: VV014398.D
 Acq: 24 Jan 2020 19:10

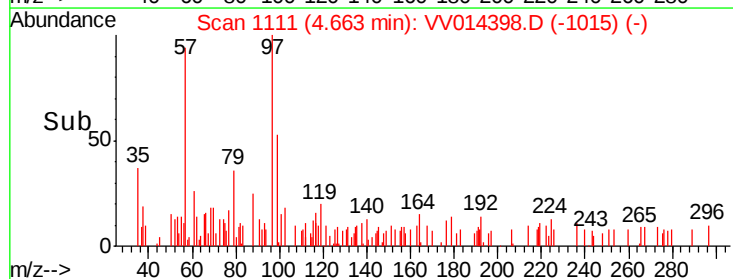
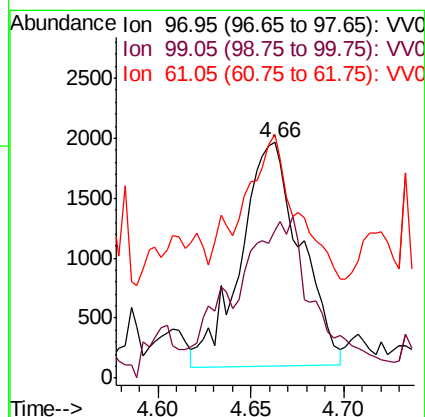
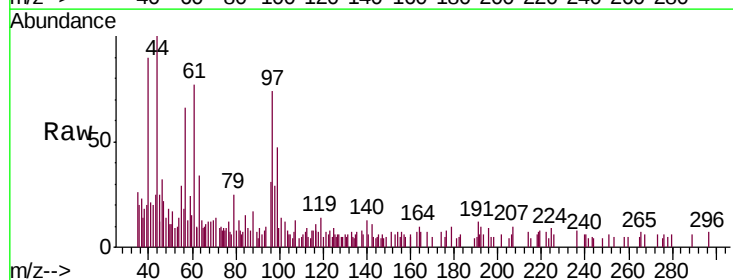
Instrument :
 MSVOA_V
 ClientSampleId :
 H0AC5

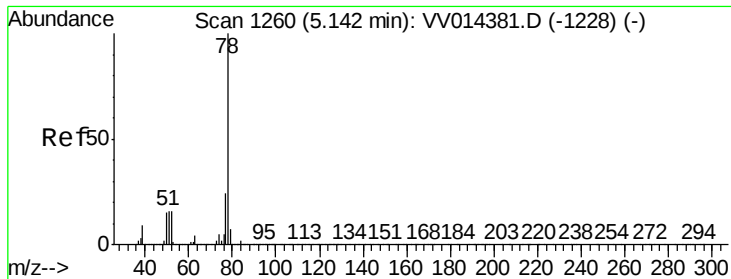
Tgt Ion: 62 Resp: 6262
 Ion Ratio Lower Upper
 62 100
 98 30.4 9.2 13.8#



#29
 1,1,1-Trichloroethane
 Concen: 0.103 ug/L
 RT: 4.66 min Scan# 1111
 Delta R.T. 0.01 min
 Lab File: VV014398.D
 Acq: 24 Jan 2020 19:10

Tgt Ion: 97 Resp: 4205
 Ion Ratio Lower Upper
 97 100
 99 68.8 51.1 76.7
 61 60.1 33.9 50.9#





#33

Benzene

Concen: 0.121 ug/L

RT: 5.15 min Scan# 1264

Delta R.T. 0.01 min

Lab File: VV014398.D

Acq: 24 Jan 2020 19:10

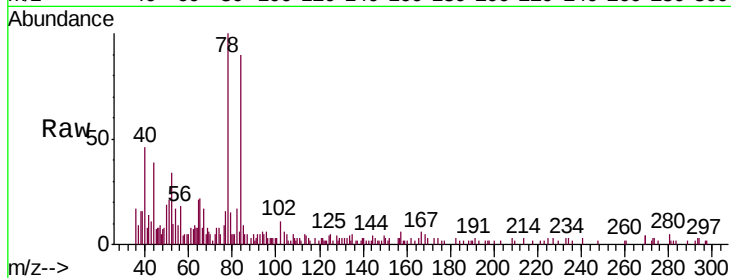
Instrument :

MSVOA_V

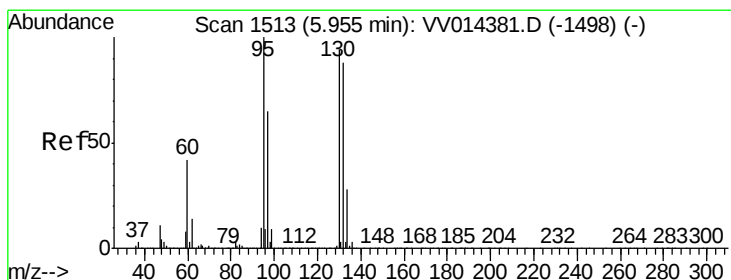
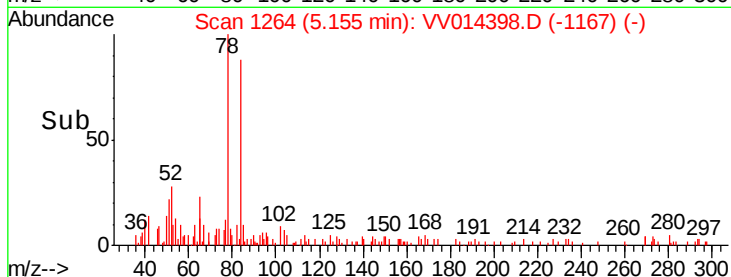
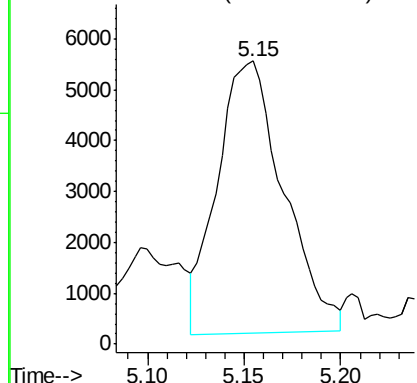
ClientSampleId :

H0AC5

Tgt Ion: 78 Resp: 12810



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 248.917 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV014398.D

Acq: 24 Jan 2020 19:10

Tgt Ion: 95 Resp: 6758232

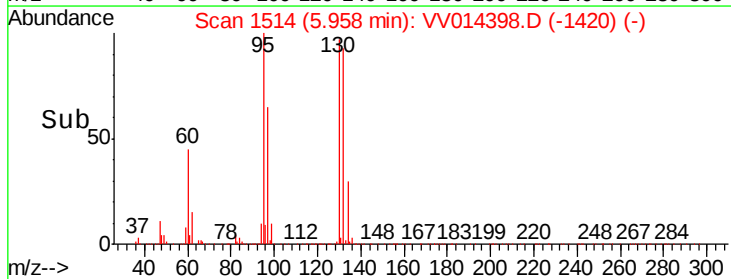
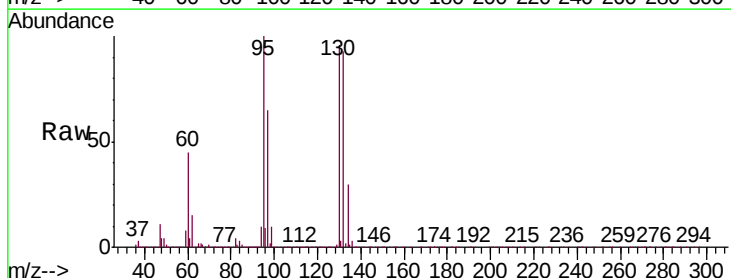
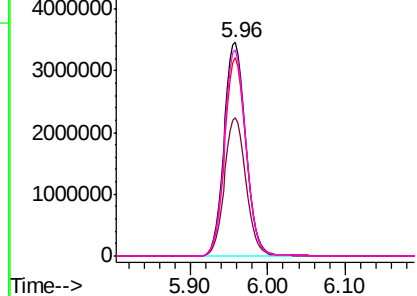
Ion	Ratio	Lower	Upper
95	100		
97	64.9	43.8	81.3
132	92.7	63.4	117.8
130	96.4	65.7	122.1

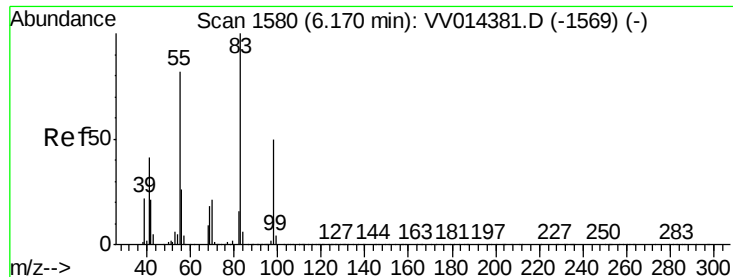
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

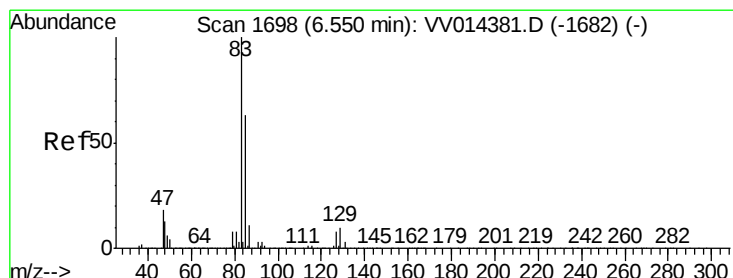
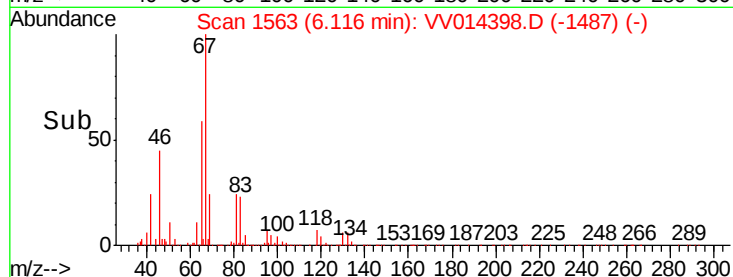
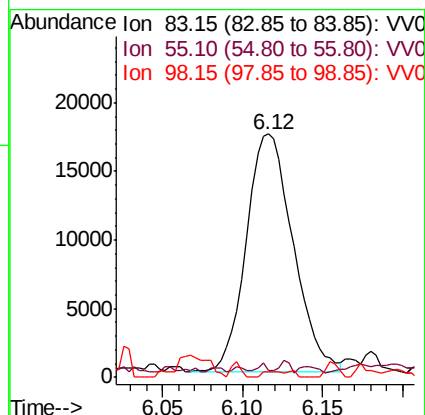
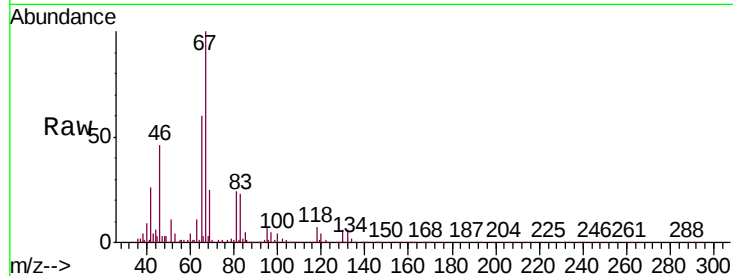




#35
Methylcyclohexane
Concen: 0.778 ug/L
RT: 6.12 min Scan# 1563
Delta R.T. -0.05 min
Lab File: VV014398.D
Acq: 24 Jan 2020 19:10

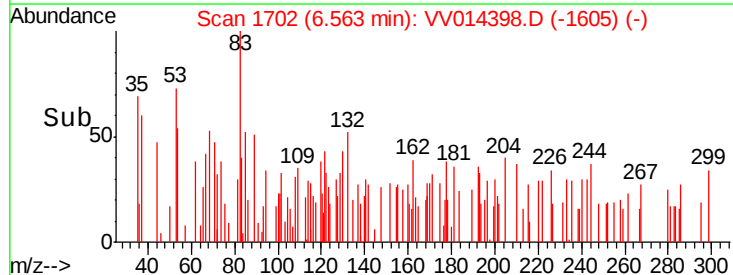
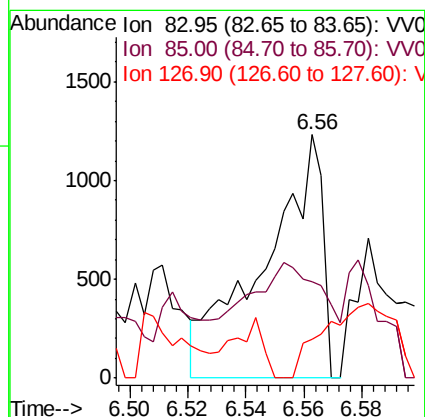
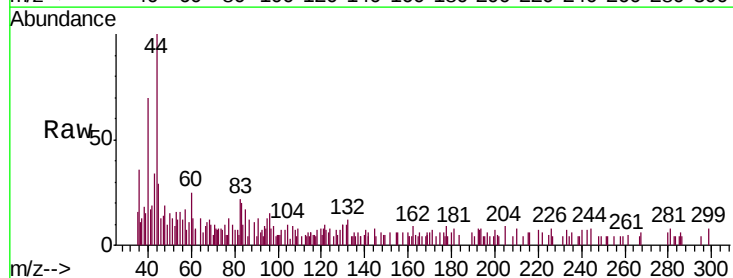
Instrument :
MSVOA_V
ClientSampleId :
H0AC5

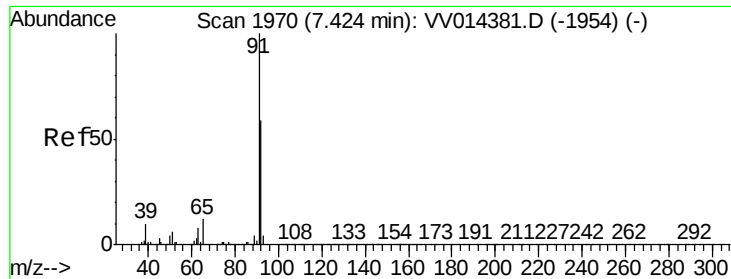
Tgt Ion: 83 Resp: 34530
Ion Ratio Lower Upper
83 100
55 0.5 61.7 92.5#
98 0.0 38.1 57.1#



#38
Bromodichloromethane
Concen: 0.050 ug/L
RT: 6.56 min Scan# 1702
Delta R.T. 0.01 min
Lab File: VV014398.D
Acq: 24 Jan 2020 19:10

Tgt Ion: 83 Resp: 1707
Ion Ratio Lower Upper
83 100
85 39.6 46.4 86.2#
127 27.4 6.3 9.5#





#42

Toluene

Concen: 0.075 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.01 min

Lab File: VV014398.D

Acq: 24 Jan 2020 19:10

Instrument :

MSVOA_V

ClientSampleId :

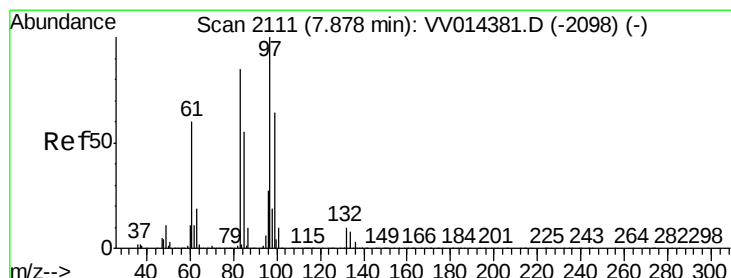
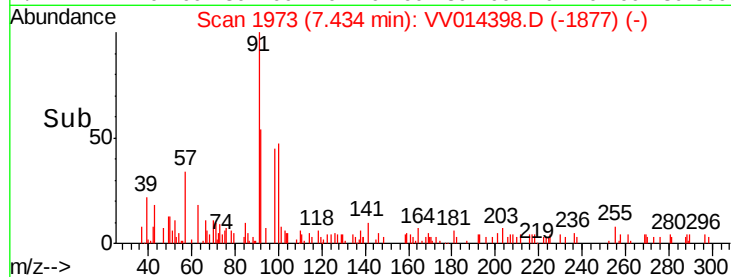
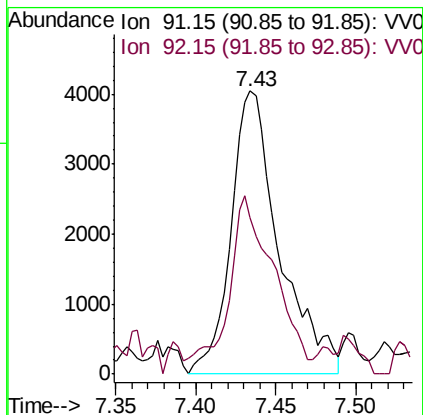
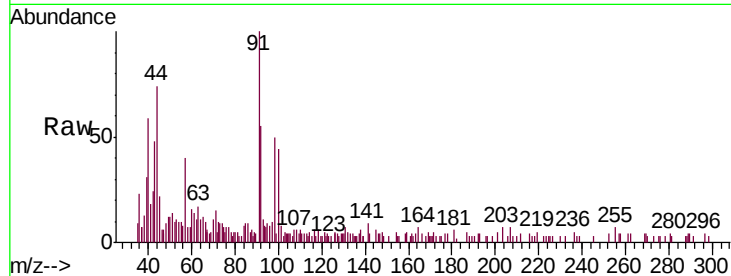
H0AC5

Tgt Ion: 91 Resp: 8376

Ion Ratio Lower Upper

91 100

92 55.4 41.2 76.6



#45

1,1,2-Trichloroethane

Concen: 1.450 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV014398.D

Acq: 24 Jan 2020 19:10

Tgt Ion: 97 Resp: 24694

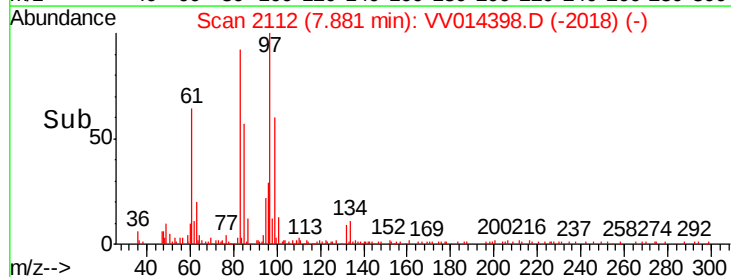
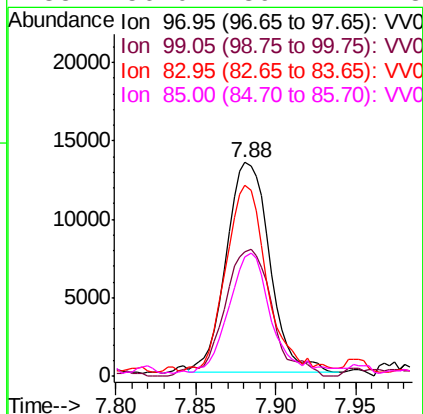
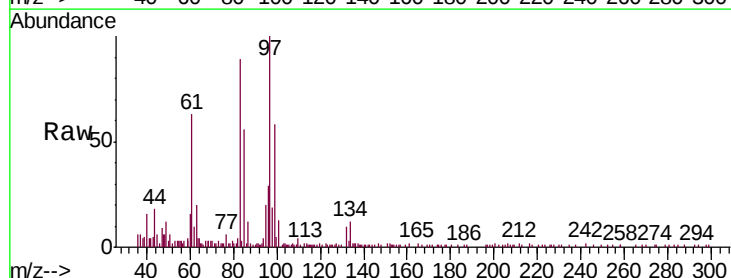
Ion Ratio Lower Upper

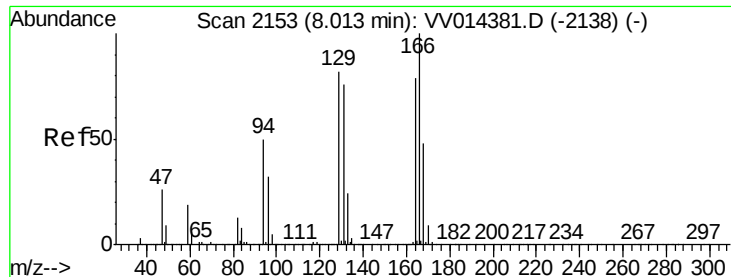
97 100

99 58.0 43.7 81.1

83 89.1 60.0 111.4

85 56.0 39.2 72.8





#47

Tetrachloroethene

Concen: 1.233 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.01 min

Lab File: VV014398.D

Acq: 24 Jan 2020 19:10

Instrument :

MSVOA_V

ClientSampled :

H0AC5

Tgt Ion:164 Resp: 22871

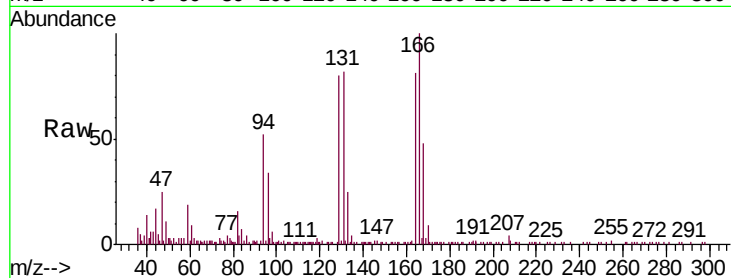
Ion Ratio Lower Upper

164 100

129 99.5 71.7 133.3

131 102.3 70.4 130.8

166 124.1 90.3 167.7

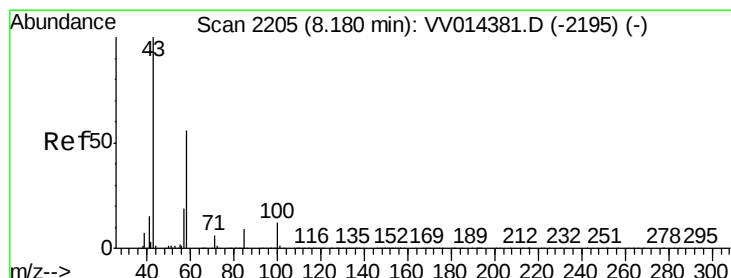
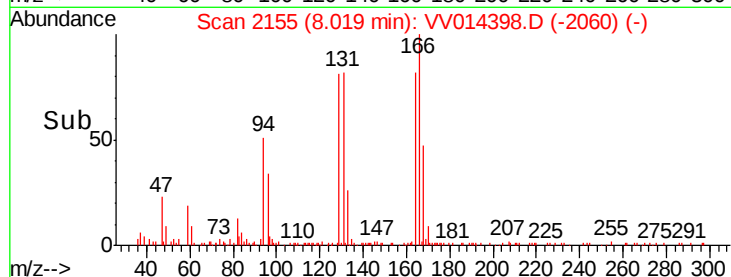
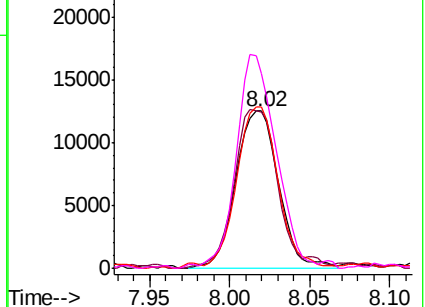


Abundance Ion 163.90 (163.60 to 164.60): V

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



#48

2-Hexanone

Concen: 6.924 ug/L

RT: 8.14 min Scan# 2192

Delta R.T. -0.04 min

Lab File: VV014398.D

Acq: 24 Jan 2020 19:10

Tgt Ion: 43 Resp: 80505

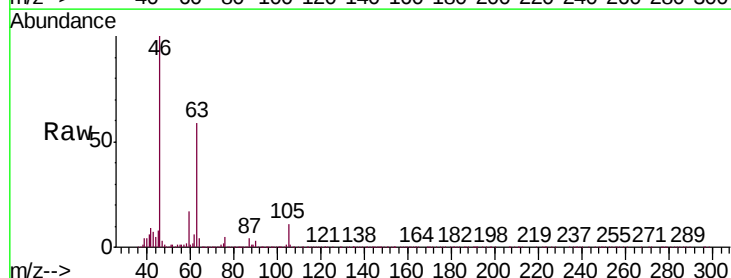
Ion Ratio Lower Upper

43 100

58 0.0 45.4 68.0#

57 0.0 15.8 23.8#

100 0.7 10.2 15.4#

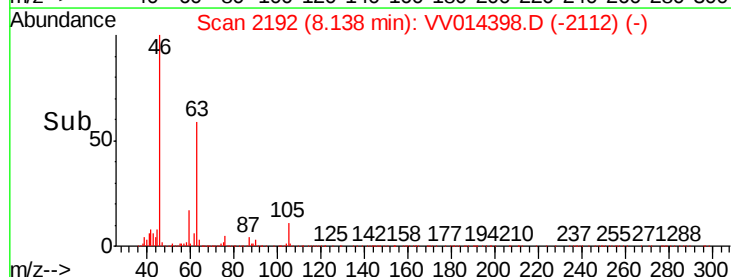
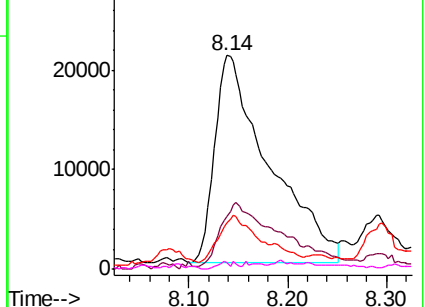


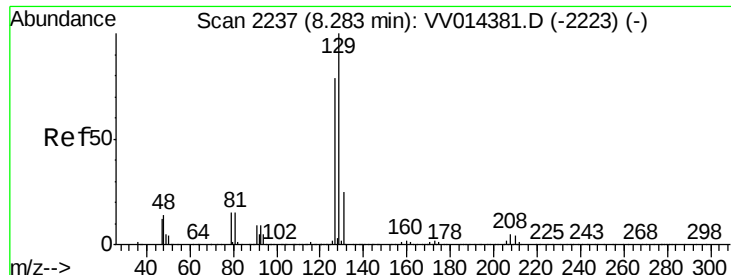
Abundance Ion 43.05 (42.75 to 43.75): VV0

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





#49

Dibromochloromethane

Concen: 1.010 ug/L

RT: 8.01 min Scan# 2153

Delta R.T. -0.27 min

Lab File: VV014398.D

Acq: 24 Jan 2020 19:10

Instrument :

MSVOA_V

ClientSampleId :

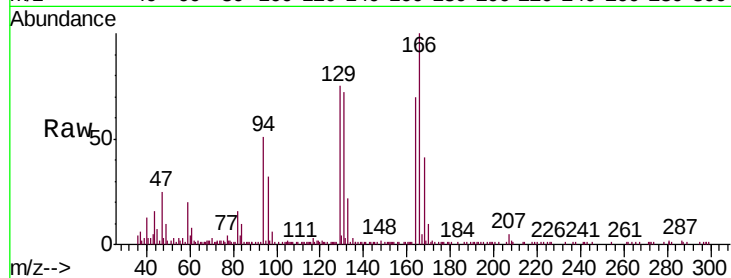
H0AC5

Tgt Ion:129 Resp: 21753

Ion Ratio Lower Upper

129 100

127 3.3 55.7 103.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

