

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV031620\
 Data File : VV014938.D
 Acq On : 16 Mar 2020 11:17
 Operator : SY/MD
 Sample : VSTD20061
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD20061

Quant Time: Mar 16 17:14:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM031620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Mar 16 17:11:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	397915	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	403438	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	228281	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	513574	190.89	ug/L	0.00
7) Chloroethane-d5	1.58	69	374270	177.79	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.12	63	769197	174.87	ug/L	0.00
21) 2-Butanone-d5	3.92	46	764116	402.19	ug/L	0.00
24) Chloroform-d	4.38	84	1082499	208.07	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.06	65	682572	196.64	ug/L	0.00
32) Benzene-d6	5.08	84	2147980	200.65	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.10	67	638773	183.46	ug/L	0.00
41) Toluene-d8	7.34	98	2137943	203.09	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.64	79	370244	213.00	ug/L	0.00
47) 2-Hexanone-d5	8.12	63	655567	422.08	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.24	84	956514	197.47	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.65	152	969817	210.07	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	686053	176.21	ug/L	100
3) Chloromethane	1.25	50	483479	145.84	ug/L	98
5) Vinyl chloride	1.32	62	485347	156.54	ug/L	98
6) Bromomethane	1.53	94	318079	164.66	ug/L	99
8) Chloroethane	1.60	64	255500	153.99	ug/L	98
9) Trichlorofluoromethane	1.76	101	771615	180.02	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	375527	171.35	ug/L	99
12) 1,1-Dichloroethene	2.13	96	351070	166.30	ug/L	90
13) Acetone	2.20	43	372878	237.99	ug/L	88
14) Carbon disulfide	2.31	76	1216940	174.47	ug/L	100
15) Methyl Acetate	2.45	43	461930	157.42	ug/L	99
16) Methylene chloride	2.52	84	526454	179.24	ug/L	99
17) trans-1,2-Dichloroethene	2.78	96	498523	186.46	ug/L	96
18) Methyl tert-butyl Ether	2.79	73	1641262	188.30	ug/L	99
19) 1,1-Dichloroethane	3.21	63	893738	174.09	ug/L	99
20) cis-1,2-Dichloroethene	3.94	96	575135	191.57	ug/L	94
22) 2-Butanone	4.01	43	698617	327.36	ug/L	92
23) Bromochloromethane	4.27	128	303724	196.67	ug/L	98
25) Chloroform	4.40	83	971753	181.31	ug/L	99
27) 1,2-Dichloroethane	5.16	62	745310	178.76	ug/L	98
29) Cyclohexane	4.70	56	797018	167.40	ug/L	99
30) 1,1,1-Trichloroethane	4.64	97	896006	189.54	ug/L	100
31) Carbon tetrachloride	4.86	117	812249	200.28	ug/L	99
33) Benzene	5.13	78	2045220	176.53	ug/L	100
34) Trichloroethene	5.94	95	553767	182.28	ug/L	99
35) Methylcyclohexane	6.15	83	905211	180.87	ug/L	99
37) 1,2-Dichloropropane	6.20	63	513141	167.67	ug/L	99
38) Bromodichloromethane	6.53	83	759937	189.51	ug/L	98
39) cis-1,3-Dichloropropene	7.05	75	937450	190.45	ug/L	99
40) 4-Methyl-2-pentanone	7.25	43	1452503	328.59	ug/L	99

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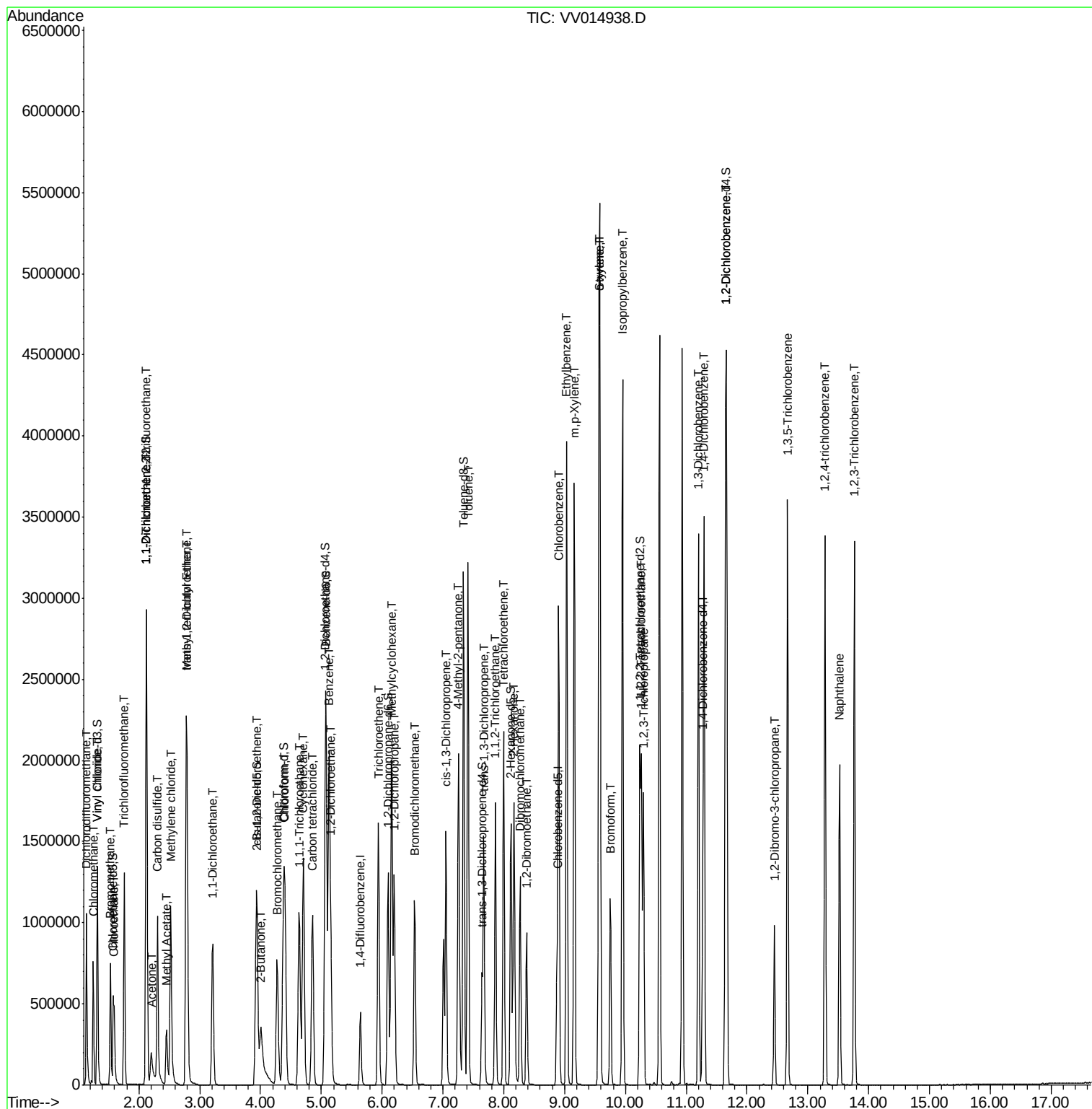
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.41	91	2343146	182.53	ug/L	100
44) trans-1,3-Dichloropropene	7.67	75	853879	192.69	ug/L	96
45) 1,1,2-Trichloroethane	7.86	97	546420	187.37	ug/L	99
46) Tetrachloroethene	8.00	164	517217	201.83	ug/L	99
48) 2-Hexanone	8.17	43	1162591	334.77	ug/L	99
49) Dibromochloromethane	8.27	129	665514	208.74	ug/L	96
50) 1,2-Dibromoethane	8.38	107	608967	193.33	ug/L	98
51) Chlorobenzene	8.90	112	1616128	193.41	ug/L	99
52) Ethylbenzene	9.03	91	2746543	189.50	ug/L	99
53) m,p-Xylene	9.16	106	1079236	197.10	ug/L	99
54) o-xylene	9.57	106	1062323	197.55	ug/L	100
55) Styrene	9.58	104	1825195	198.61	ug/L	100
56) Isopropylbenzene	9.95	105	2821102	195.58	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.26	83	910977	183.01	ug/L	98
59) 1,2,3-Trichloropropane	10.30	75	721456	180.74	ug/L	98
61) Bromoform	9.75	173	512832	205.79	ug/L	100
62) 1,3-Dichlorobenzene	11.20	146	1439480	193.88	ug/L	99
63) 1,4-Dichlorobenzene	11.29	146	1434560	192.75	ug/L	98
65) 1,2-Dichlorobenzene	11.67	146	1413177	190.38	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.45	75	229511	186.89	ug/L	96
67) 1,3,5-Trichlorobenzene	12.67	180	1175981	203.01	ug/L	99
68) 1,2,4-trichlorobenzene	13.28	180	1094997	207.75	ug/L	99
69) Naphthalene	13.52	128	1558676	201.07	ug/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	1081997	204.97	ug/L	99

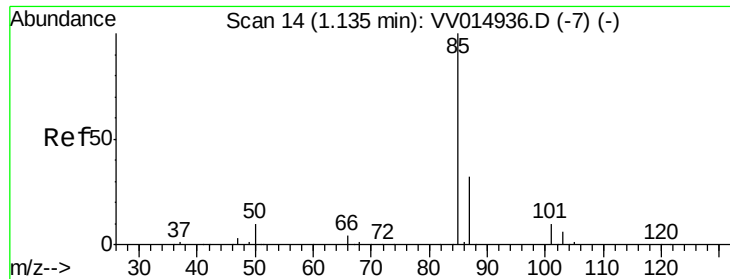
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_V\DATA\VV031620\
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#2

Dichlorodifluoromethane

Concen: 176.21 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampleId :

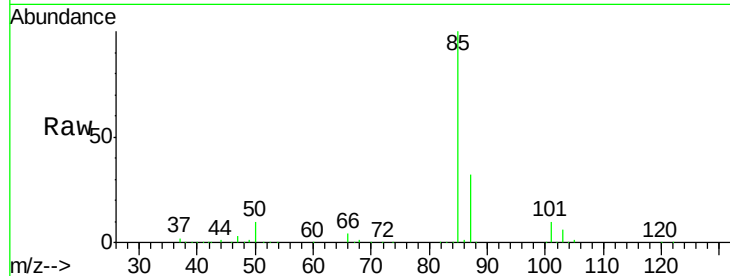
VSTD20061

Tgt Ion: 85 Resp: 686053

Ion Ratio Lower Upper

85 100

87 32.8 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VV014938.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV014938.D (-7) (-)

1.14

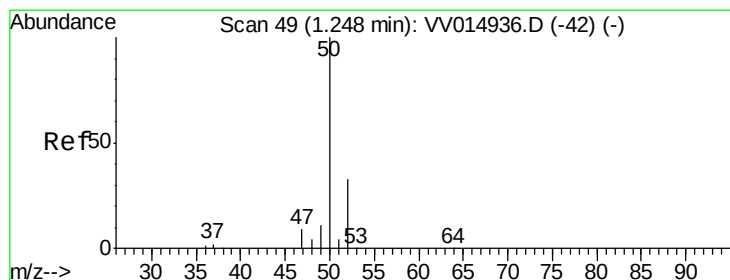
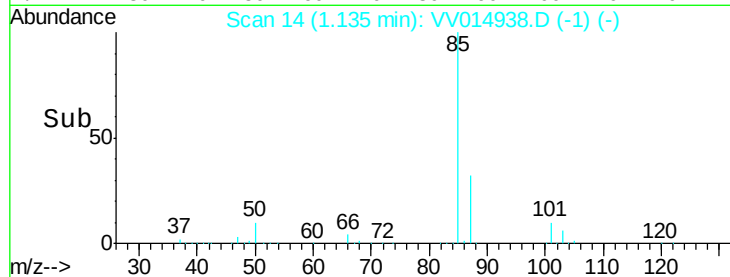
600000

400000

200000

0

Time-->



#3

Chloromethane

Concen: 145.84 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV014938.D

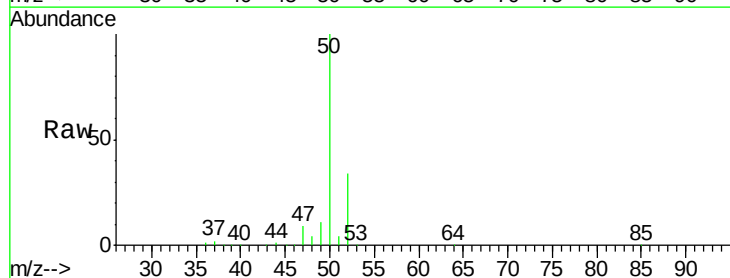
Acq: 16 Mar 2020 11:17

Tgt Ion: 50 Resp: 483479

Ion Ratio Lower Upper

50 100

52 34.3 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VV014938.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV014938.D (-42) (-)

1.25

500000

400000

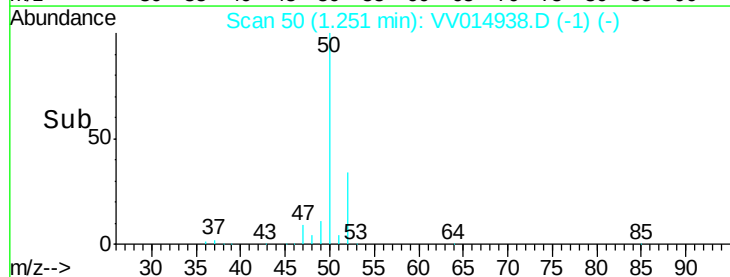
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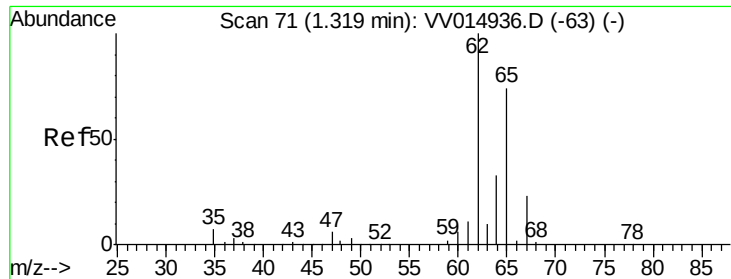
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 156.54 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampleId :

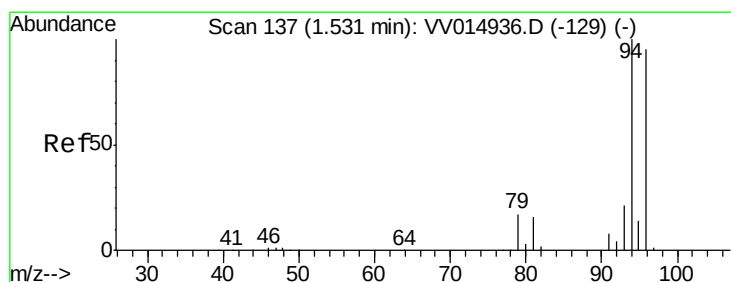
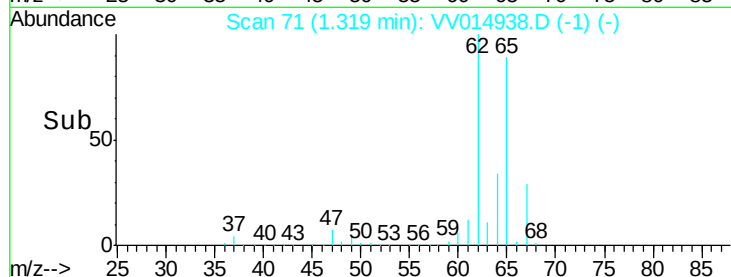
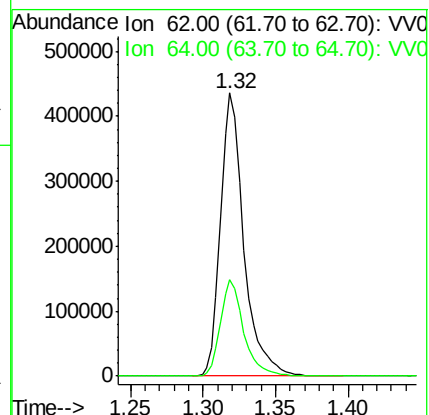
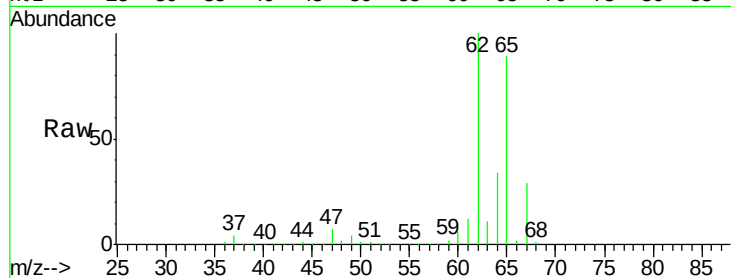
VSTD20061

Tgt Ion: 62 Resp: 485347

Ion Ratio Lower Upper

62 100

64 34.0 23.0 42.8



#6

Bromomethane

Concen: 164.66 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV014938.D

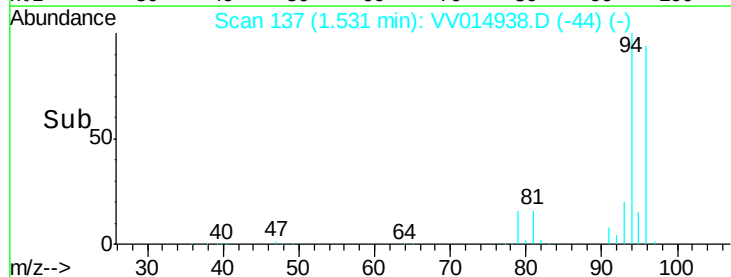
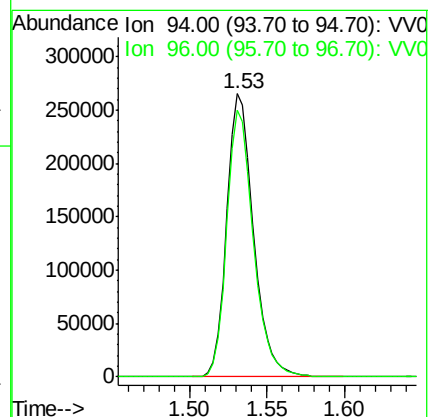
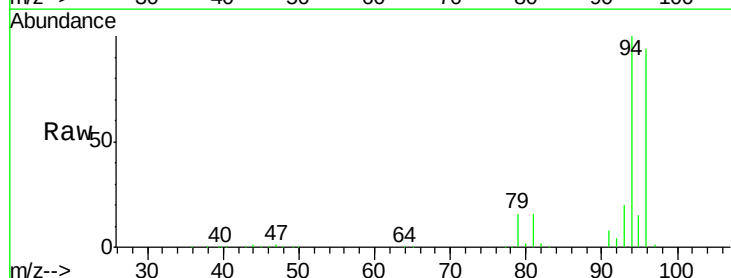
Acq: 16 Mar 2020 11:17

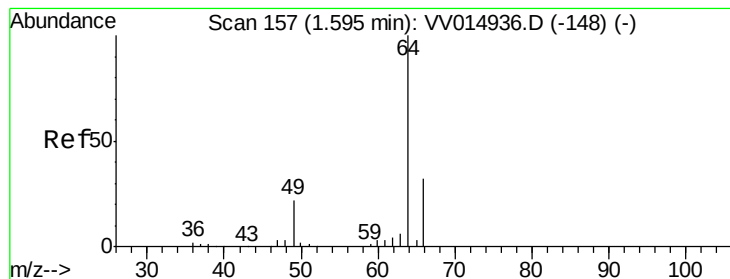
Tgt Ion: 94 Resp: 318079

Ion Ratio Lower Upper

94 100

96 94.1 66.8 124.0





#8

Chloroethane

Concen: 153.99 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampleId :

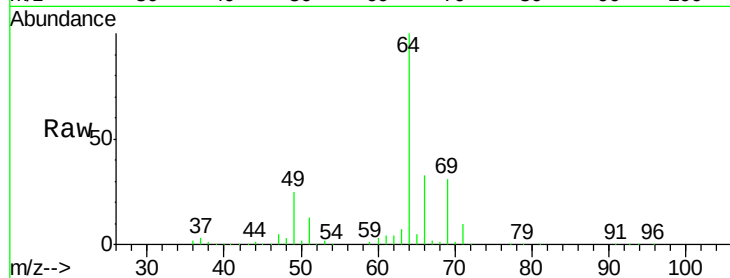
VSTD20061

Tgt Ion: 64 Resp: 255500

Ion Ratio Lower Upper

64 100

66 33.4 22.7 42.1



Abundance Ion 64.00 (63.70 to 64.70): VV014938.D (-148) (-)

Ion 66.00 (65.70 to 66.70): VV014938.D (-148) (-)

1.60

200000

150000

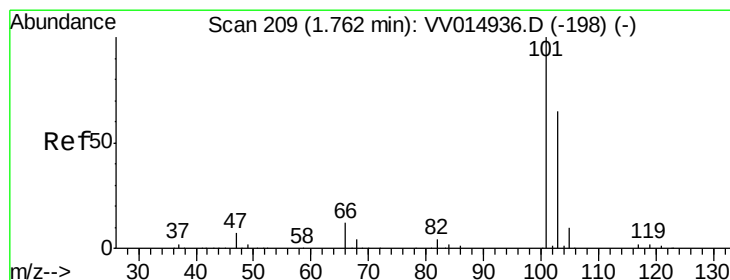
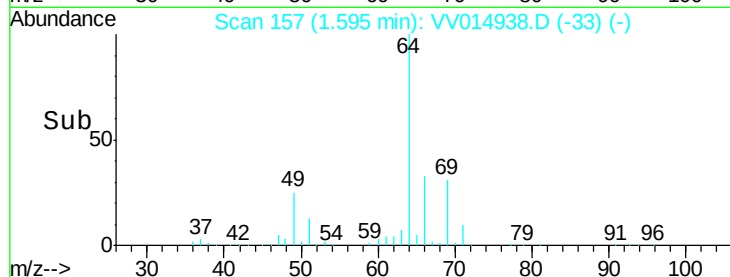
100000

50000

0

Time-->

1.55 1.60 1.65 1.70



#9

Trichlorofluoromethane

Concen: 180.02 ug/L

RT: 1.76 min Scan# 208

Delta R.T. -0.00 min

Lab File: VV014938.D

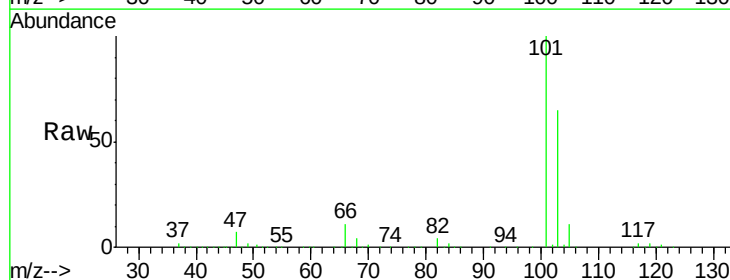
Acq: 16 Mar 2020 11:17

Tgt Ion: 101 Resp: 771615

Ion Ratio Lower Upper

101 100

103 65.2 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VV014938.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV014938.D (-198) (-)

1.76

600000

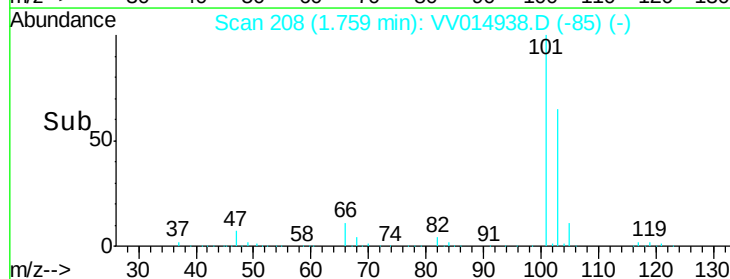
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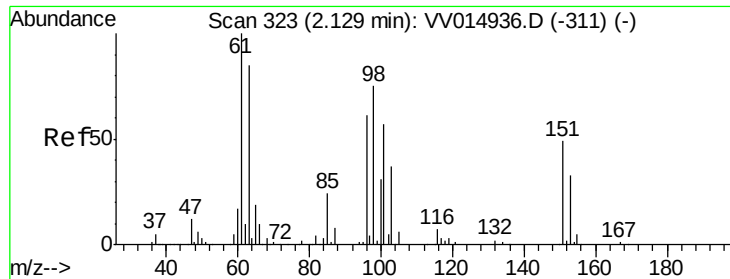
200000

0

Time-->

1.70 1.75 1.80 1.85





#10

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

Concen: 171.35 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampleId :

VSTD20061

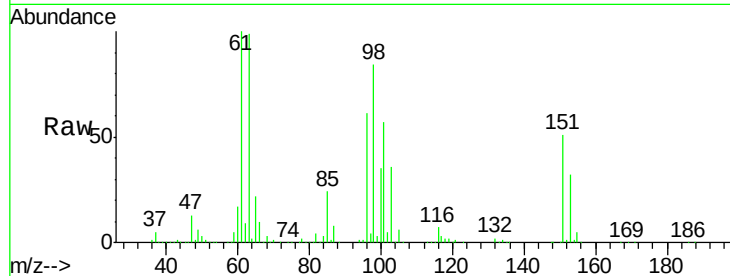
Tgt Ion:101 Resp: 375527

Ion Ratio Lower Upper

101 100

85 41.9 33.9 50.9

151 88.8 70.1 105.1

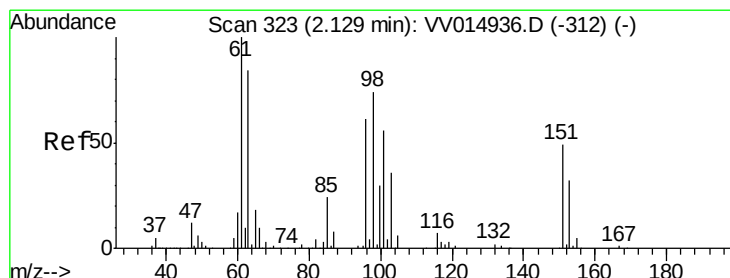
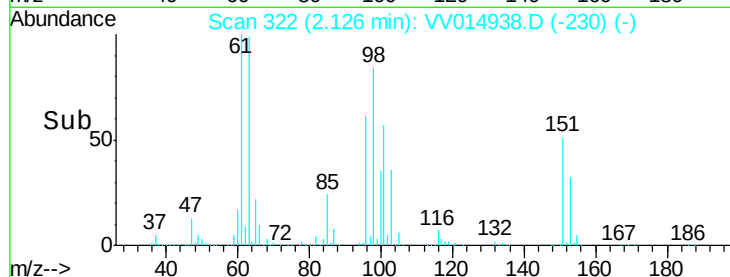


Abundance Ion 101.00 (100.70 to 101.70): VV014936.D (-311) (-)

Ion 85.00 (84.70 to 85.70): VV014936.D (-311) (-)

Ion 151.00 (150.70 to 151.70): VV014936.D (-311) (-)

Time-->



#12

1,1-Dichloroethene

Concen: 166.30 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

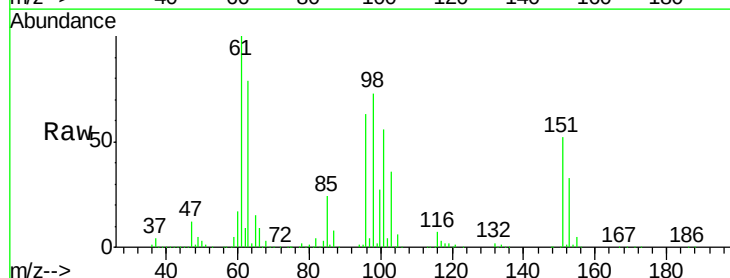
Tgt Ion: 96 Resp: 351070

Ion Ratio Lower Upper

96 100

61 157.7 115.7 214.9

63 123.9 99.2 184.2

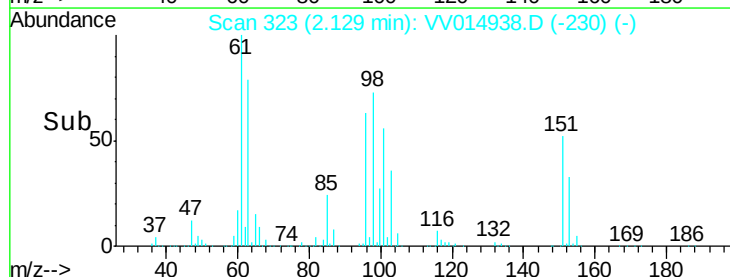


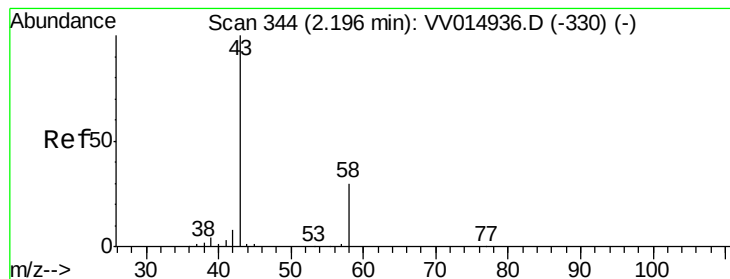
Abundance Ion 96.00 (95.70 to 96.70): VV014938.D (-230) (-)

Ion 61.00 (60.70 to 61.70): VV014938.D (-230) (-)

Ion 63.00 (62.70 to 63.70): VV014938.D (-230) (-)

Time-->





#13

Acetone

Concen: 237.99 ug/L

RT: 2.20 min Scan# 346

Delta R.T. 0.01 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampleId :

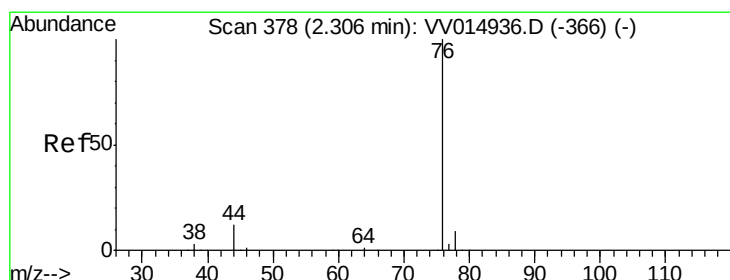
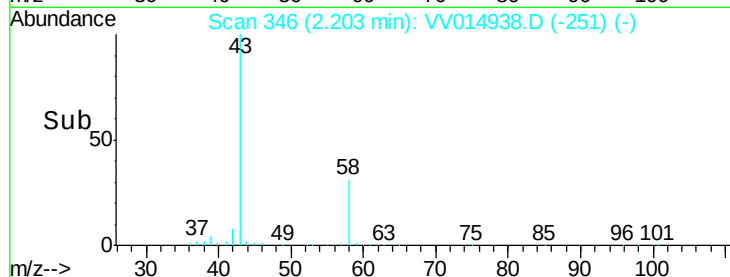
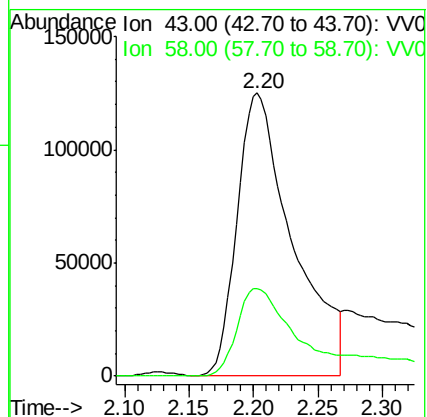
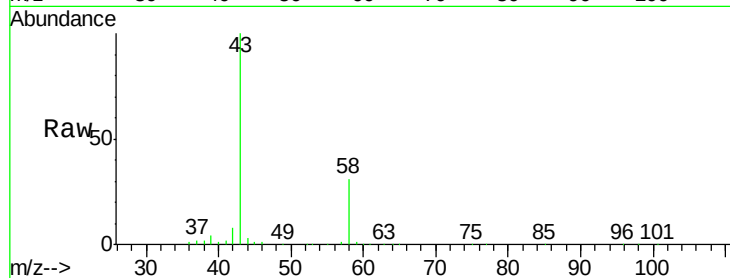
VSTD20061

Tgt Ion: 43 Resp: 372878

Ion Ratio Lower Upper

43 100

58 31.7 0.0 51.6



#14

Carbon disulfide

Concen: 174.47 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VV014938.D

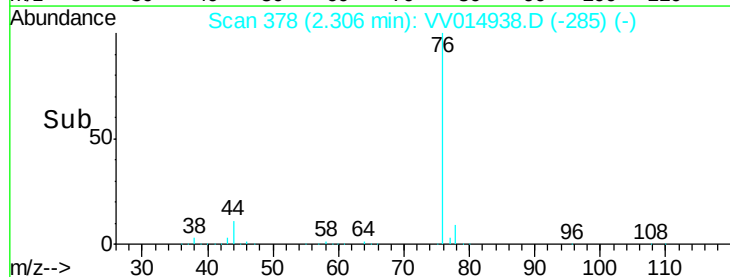
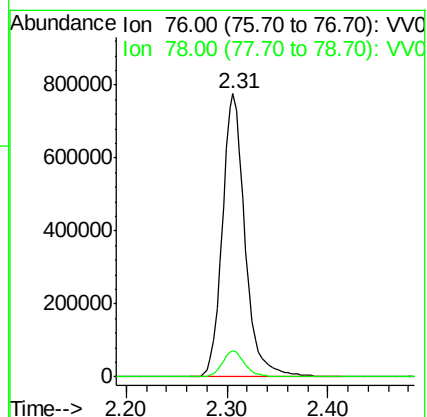
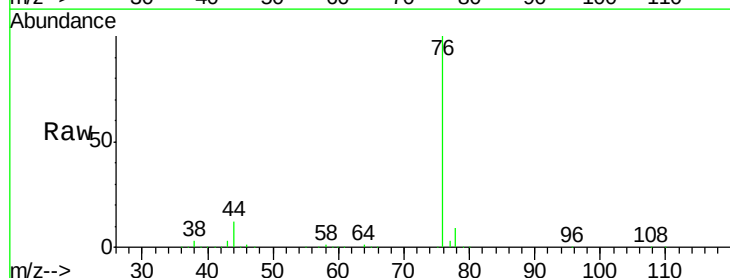
Acq: 16 Mar 2020 11:17

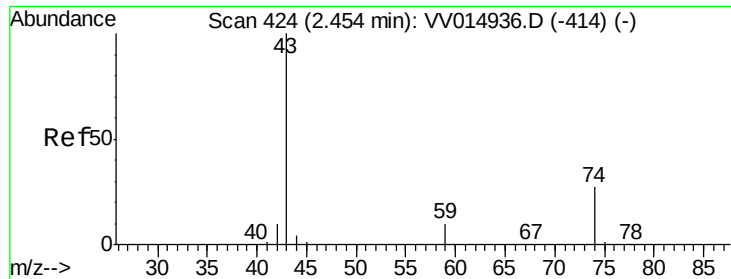
Tgt Ion: 76 Resp: 1216940

Ion Ratio Lower Upper

76 100

78 9.0 7.2 10.8

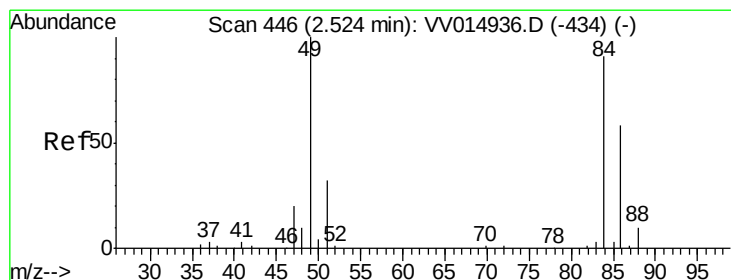
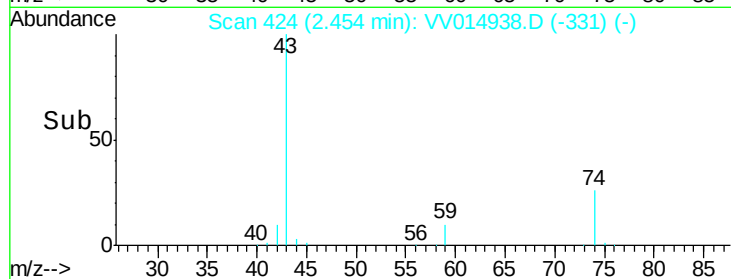
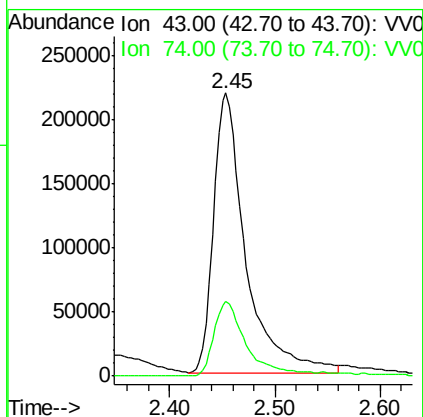
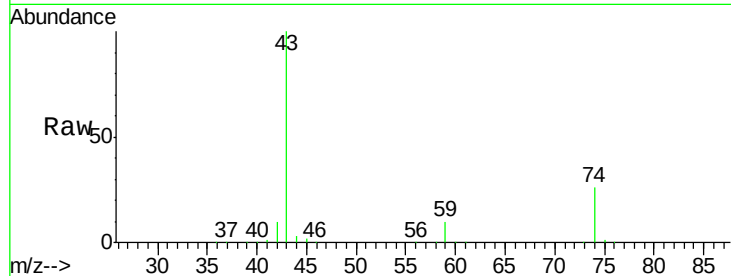




#15
Methyl Acetate
Concen: 157.42 ug/L
RT: 2.45 min Scan# 424
Delta R.T. 0.00 min
Lab File: VV014938.D
Acq: 16 Mar 2020 11:17

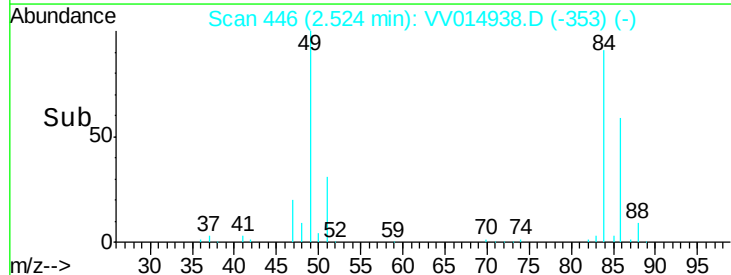
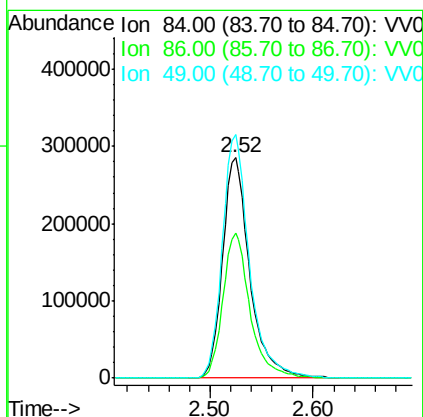
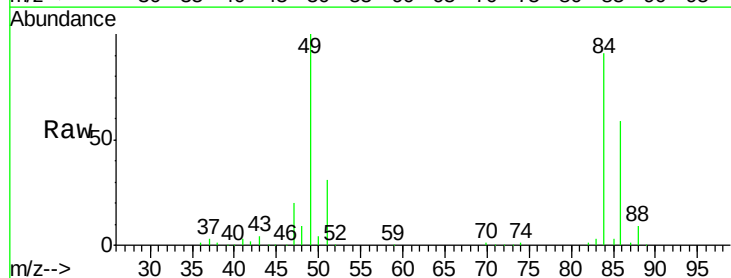
Instrument :
MSVOA_V
ClientSampleId :
VSTD20061

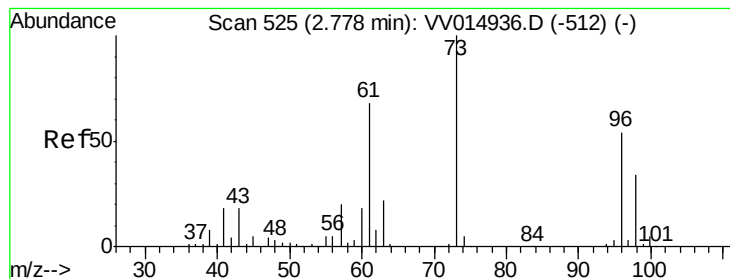
Tgt Ion: 43 Resp: 461930
Ion Ratio Lower Upper
43 100
74 27.2 22.4 33.6



#16
Methylene chloride
Concen: 179.24 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV014938.D
Acq: 16 Mar 2020 11:17

Tgt Ion: 84 Resp: 526454
Ion Ratio Lower Upper
84 100
86 65.5 44.6 82.8
49 110.4 76.9 142.9





#17

trans-1,2-Dichloroethene

Concen: 186.46 ug/L

RT: 2.78 min Scan# 524

Delta R.T. -0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampleId :

VSTD20061

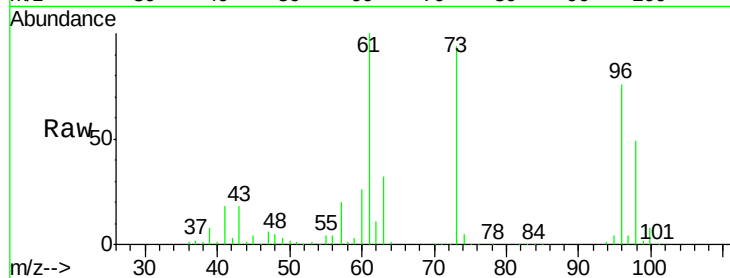
Tgt Ion: 96 Resp: 498523

Ion Ratio Lower Upper

96 100

61 130.9 87.9 163.3

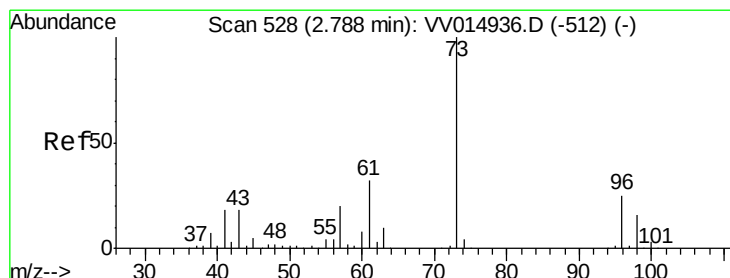
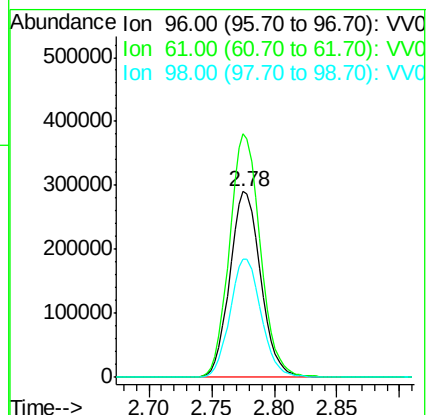
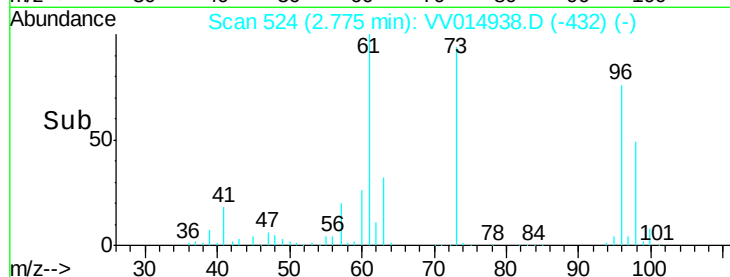
98 63.9 43.5 80.7



Abundance Ion 96.00 (95.70 to 96.70): VV014938.D (-432) (-)

Ion 61.00 (60.70 to 61.70): VV014938.D (-432) (-)

Ion 98.00 (97.70 to 98.70): VV014938.D (-432) (-)



#18

Methyl tert-butyl Ether

Concen: 188.30 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

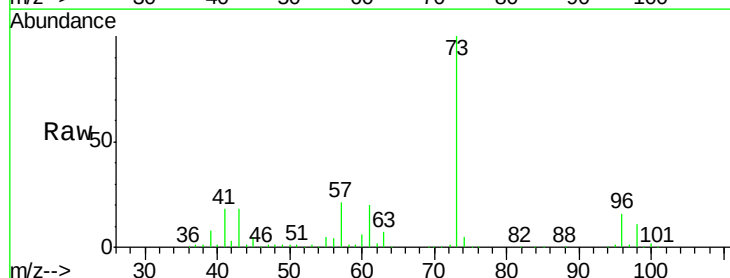
Tgt Ion: 73 Resp: 1641262

Ion Ratio Lower Upper

73 100

43 18.0 14.4 21.6

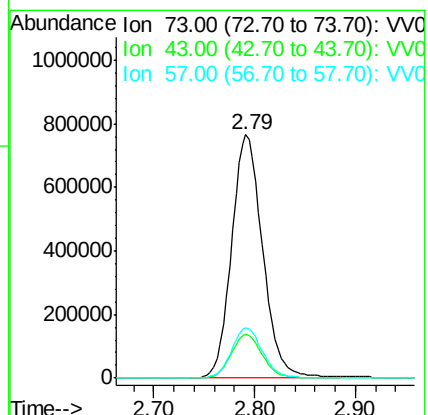
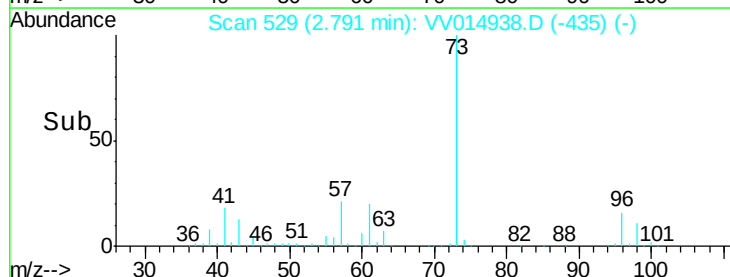
57 20.8 16.0 24.0

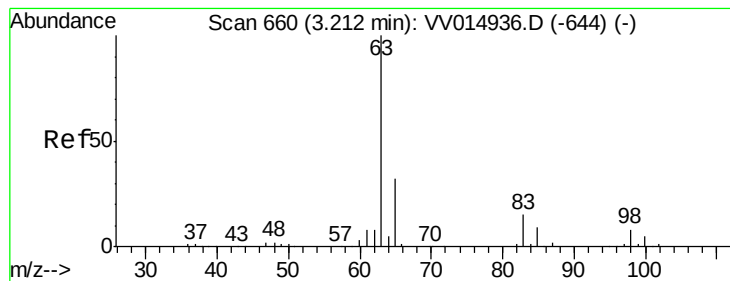


Abundance Ion 73.00 (72.70 to 73.70): VV014938.D (-435) (-)

Ion 43.00 (42.70 to 43.70): VV014938.D (-435) (-)

Ion 57.00 (56.70 to 57.70): VV014938.D (-435) (-)





#19

1,1-Dichloroethane

Concen: 174.09 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampled :

VSTD20061

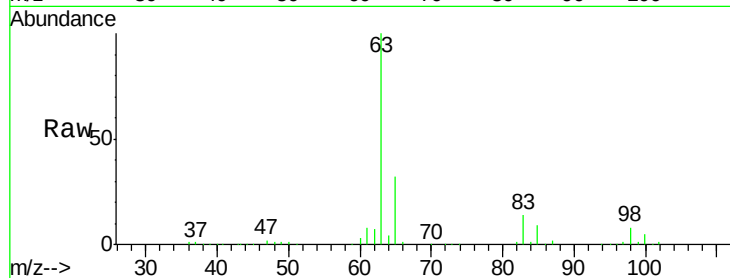
Tgt Ion: 63 Resp: 893738

Ion Ratio Lower Upper

63 100

65 31.9 22.7 42.3

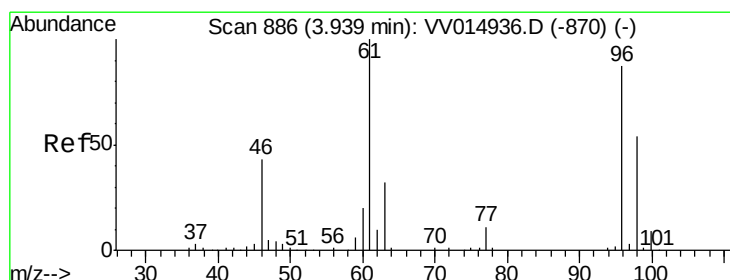
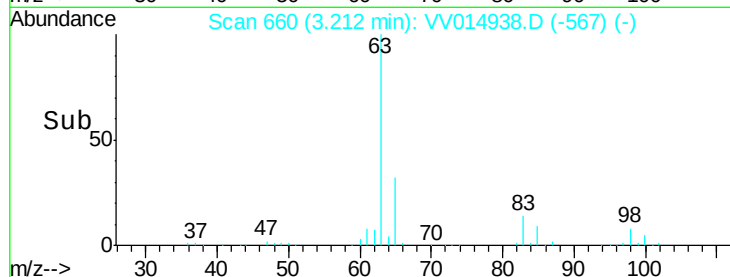
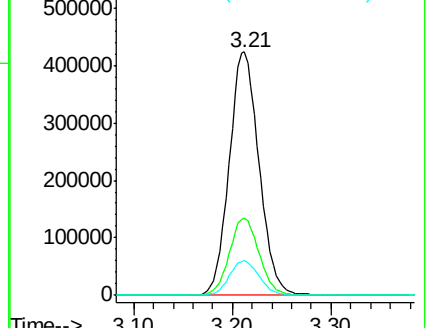
83 14.2 10.4 19.2



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 191.57 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

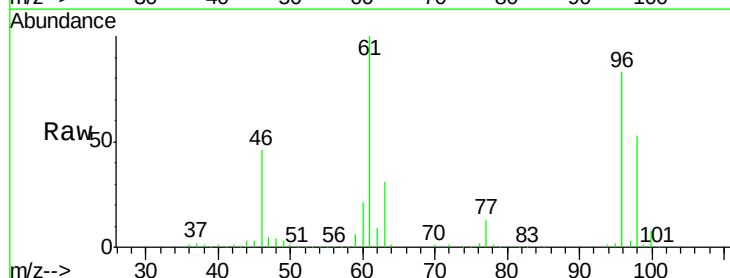
Tgt Ion: 96 Resp: 575135

Ion Ratio Lower Upper

96 100

61 120.9 80.2 149.0

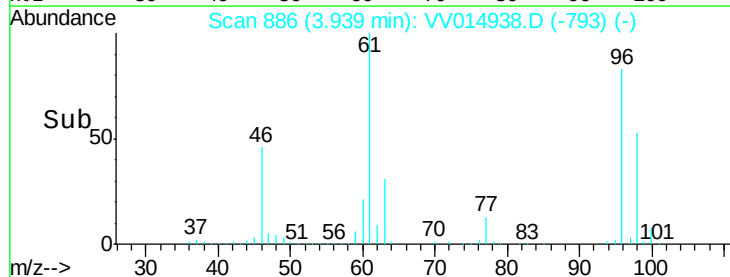
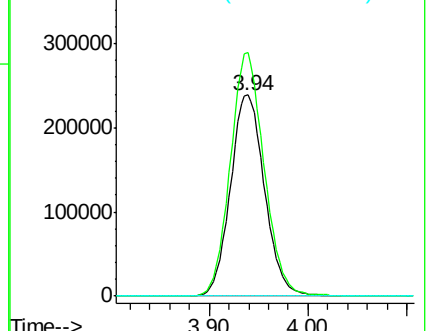
68 0.0 0.0 0.0

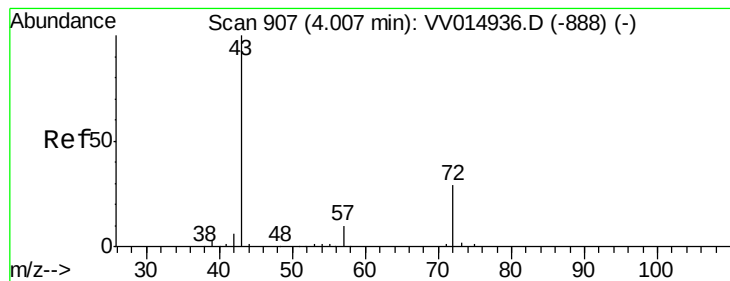


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 327.36 ug/L

RT: 4.01 min Scan# 907

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampleId :

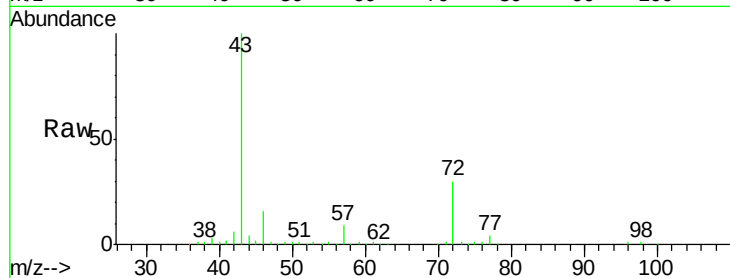
VSTD20061

Tgt Ion: 43 Resp: 698617

Ion Ratio Lower Upper

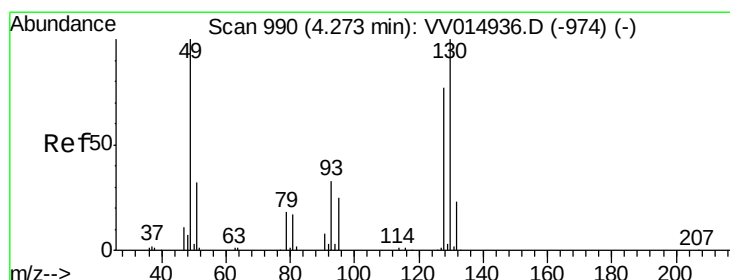
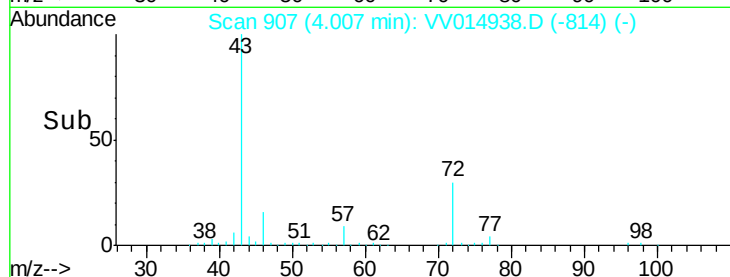
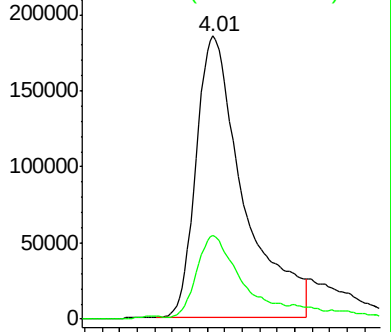
43 100

72 25.3 10.9 32.6



Abundance Ion 43.00 (42.70 to 43.70): VV014938.D (-888) (-)

Ion 72.00 (71.70 to 72.70): VV014938.D (-888) (-)



#23

Bromochloromethane

Concen: 196.67 ug/L

RT: 4.27 min Scan# 990

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Tgt Ion: 128 Resp: 303724

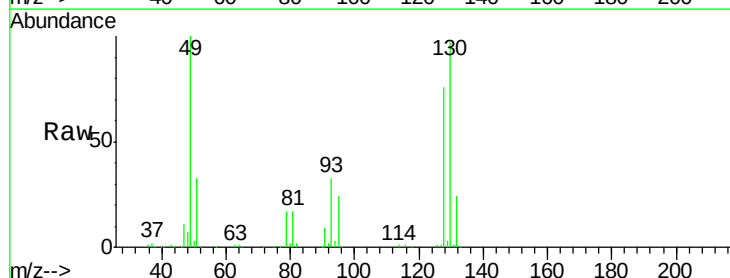
Ion Ratio Lower Upper

128 100

49 131.5 90.4 167.8

130 128.1 90.4 168.0

51 42.8 32.7 49.1

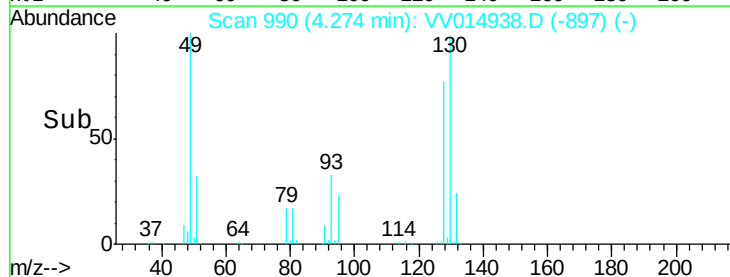
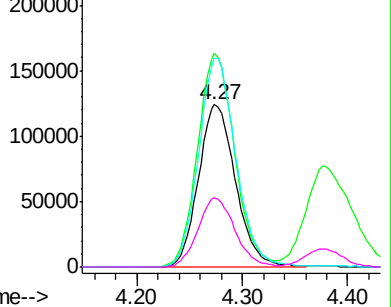


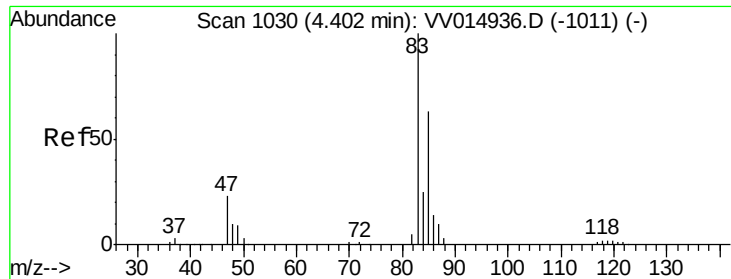
Abundance Ion 128.00 (127.70 to 128.70): VV014938.D (-974) (-)

Ion 49.00 (48.70 to 49.70): VV014938.D (-974) (-)

Ion 130.00 (129.70 to 130.70): VV014938.D (-974) (-)

Ion 51.00 (50.70 to 51.70): VV014938.D (-974) (-)

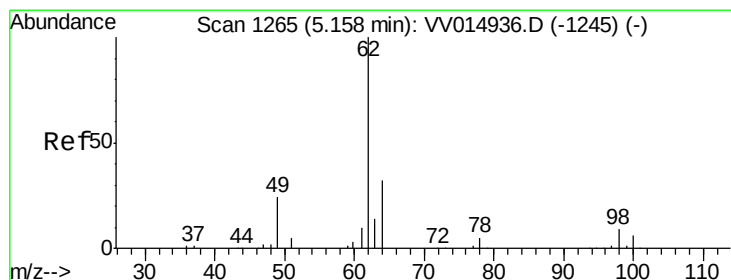
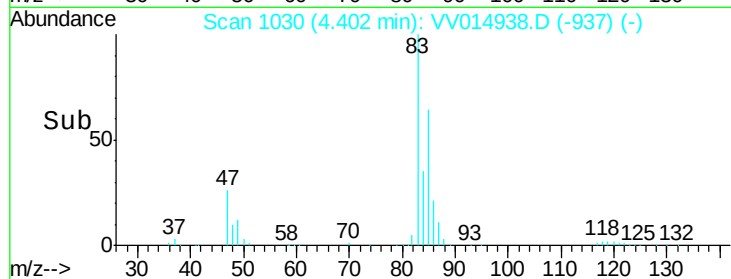
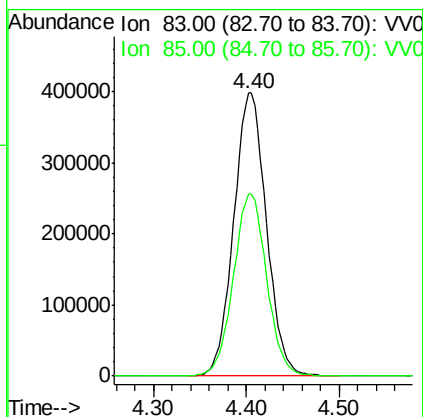
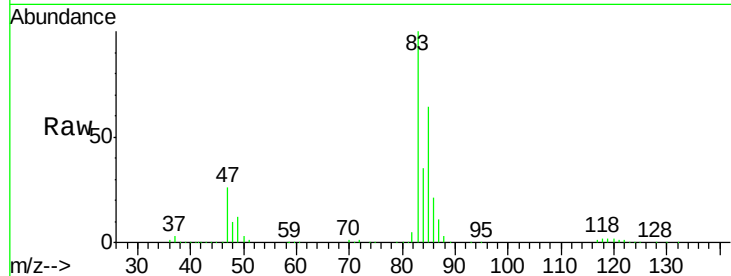




#25
Chloroform
Concen: 181.31 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV014938.D
Acq: 16 Mar 2020 11:17

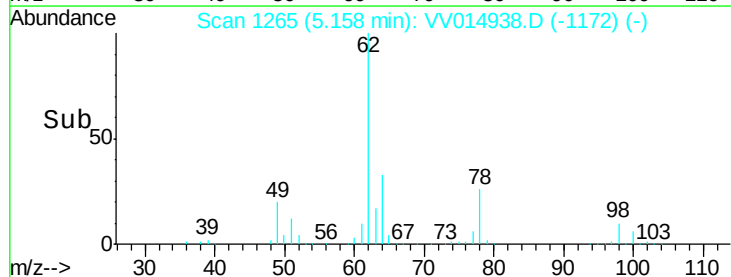
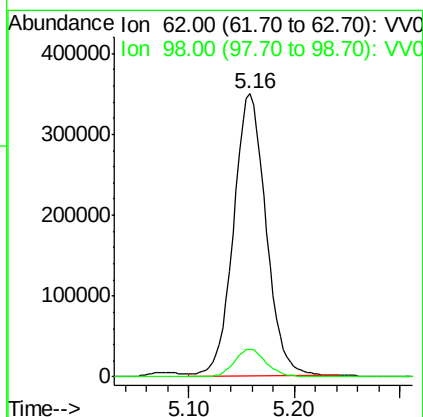
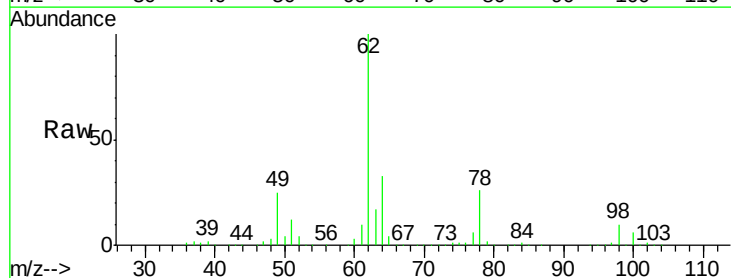
Instrument :
MSVOA_V
ClientSampleId :
VSTD20061

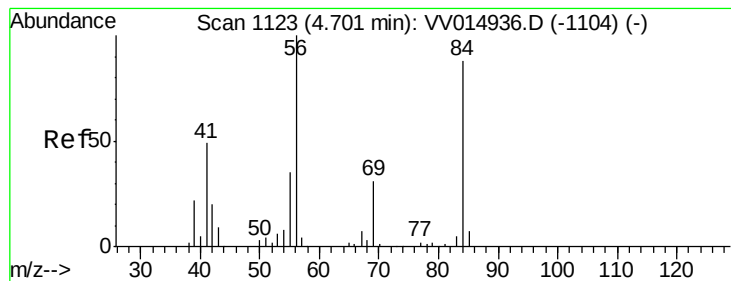
Tgt Ion: 83 Resp: 971753
Ion Ratio Lower Upper
83 100
85 64.2 44.6 82.8



#27
1,2-Dichloroethane
Concen: 178.76 ug/L
RT: 5.16 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VV014938.D
Acq: 16 Mar 2020 11:17

Tgt Ion: 62 Resp: 745310
Ion Ratio Lower Upper
62 100
98 9.9 7.4 11.0





#29

Cyclohexane

Concen: 167.40 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampleId :

VSTD20061

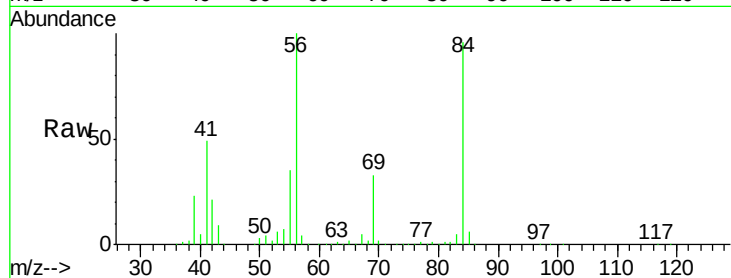
Tgt Ion: 56 Resp: 797018

Ion Ratio Lower Upper

56 100

69 32.5 25.2 37.8

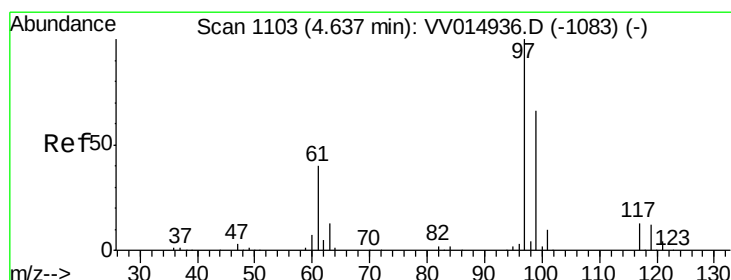
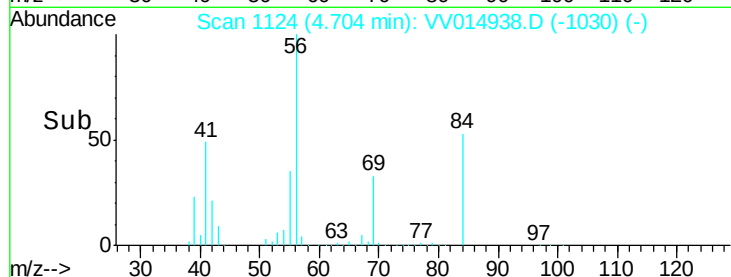
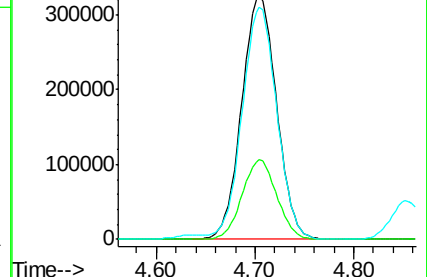
84 94.7 76.4 114.6



Abundance Ion 56.00 (55.70 to 56.70): VV014938.D (-1104) (-)

Ion 69.00 (68.70 to 69.70): VV014938.D (-1104) (-)

Ion 84.00 (83.70 to 84.70): VV014938.D (-1104) (-)



#30

1,1,1-Trichloroethane

Concen: 189.54 ug/L

RT: 4.64 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

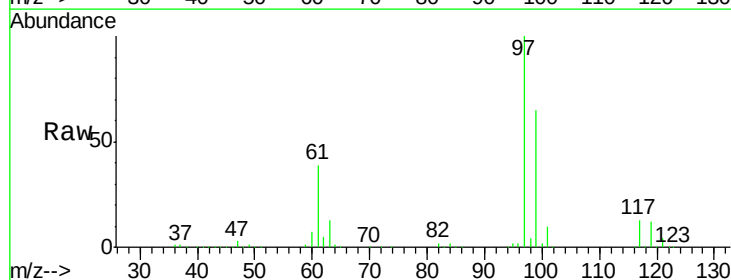
Tgt Ion: 97 Resp: 896006

Ion Ratio Lower Upper

97 100

99 64.6 51.8 77.6

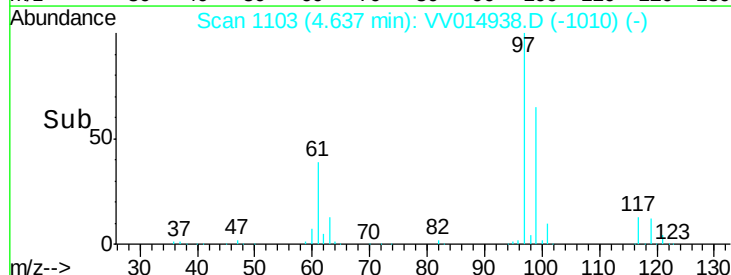
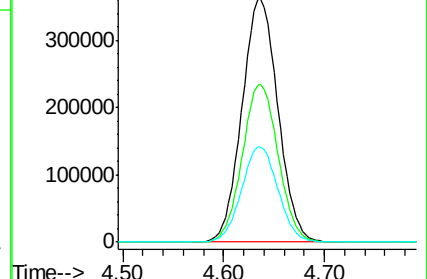
61 39.7 32.0 48.0

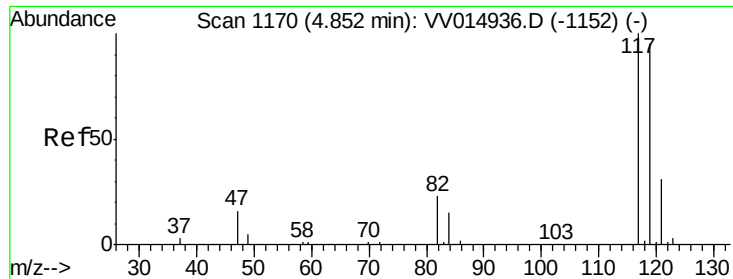


Abundance Ion 97.00 (96.70 to 97.70): VV014938.D (-1083) (-)

Ion 99.00 (98.70 to 99.70): VV014938.D (-1083) (-)

Ion 61.05 (60.75 to 61.75): VV014938.D (-1083) (-)

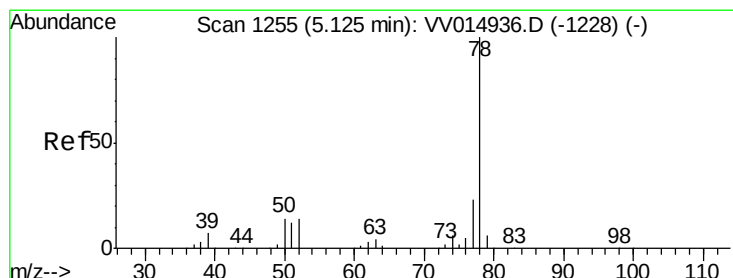
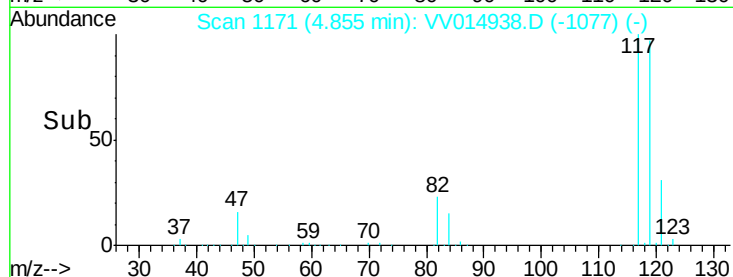
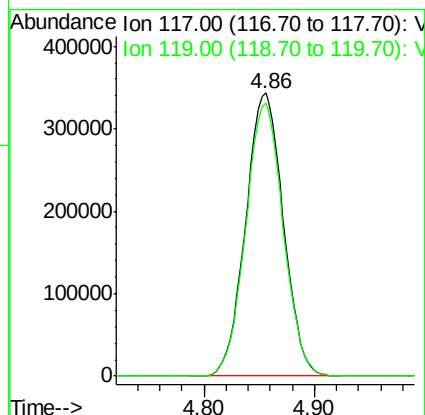
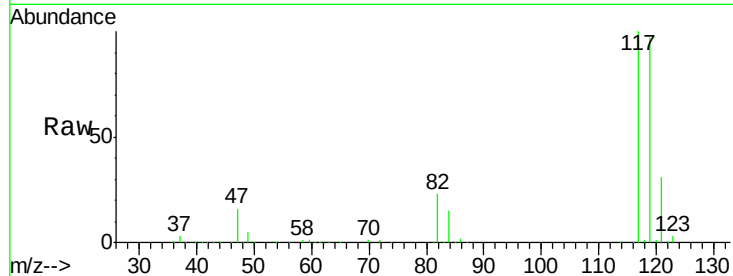




#31
Carbon tetrachloride
Concen: 200.28 ug/L
RT: 4.86 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VV014938.D
Acq: 16 Mar 2020 11:17

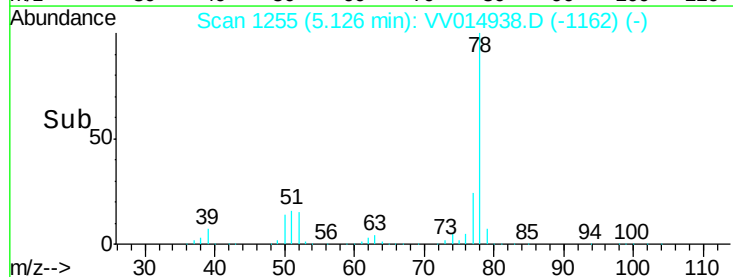
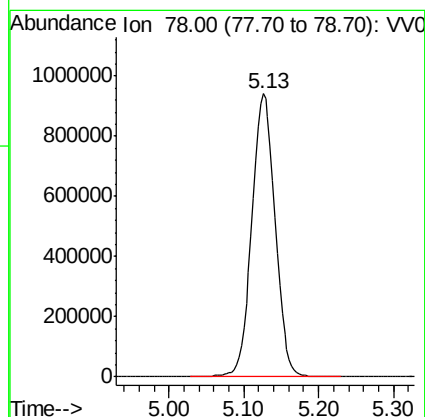
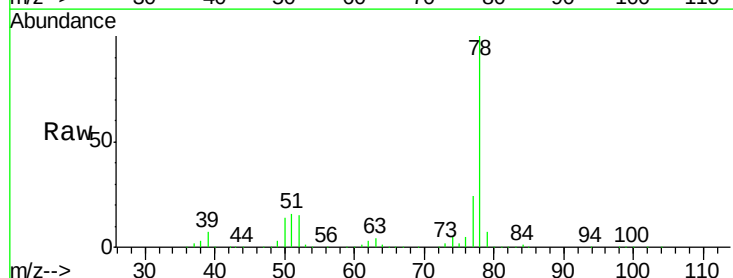
Instrument :
MSVOA_V
ClientSampleId :
VSTD20061

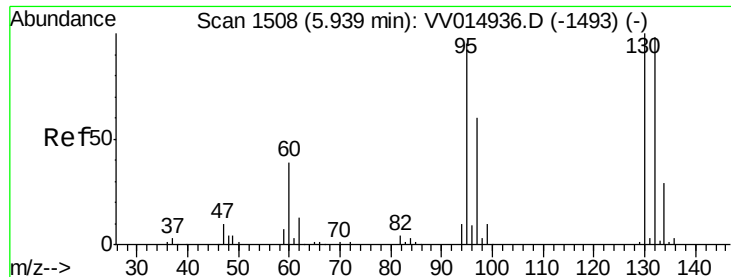
Tgt Ion:117 Resp: 812249
Ion Ratio Lower Upper
117 100
119 96.2 75.9 113.9



#33
Benzene
Concen: 176.53 ug/L
RT: 5.13 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VV014938.D
Acq: 16 Mar 2020 11:17

Tgt Ion: 78 Resp: 2045220





#34

Trichloroethene

Concen: 182.28 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampleId :

VSTD20061

Tgt Ion: 95 Resp: 553767

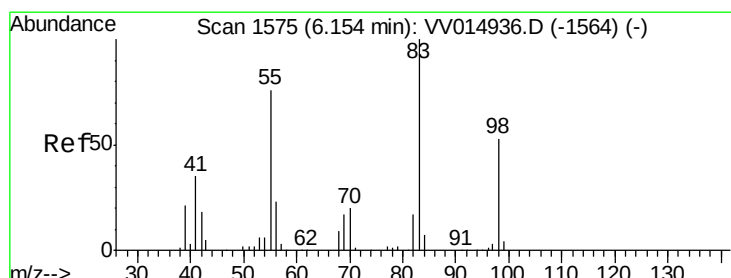
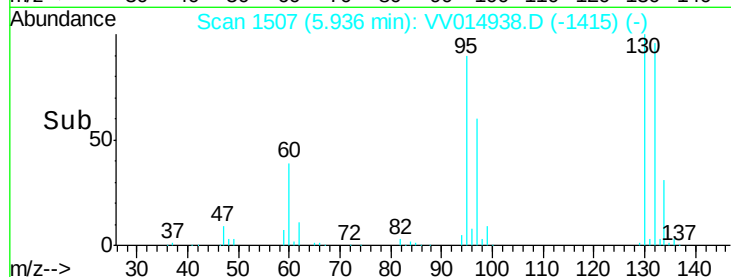
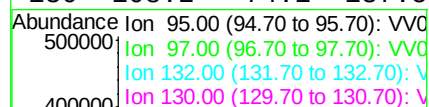
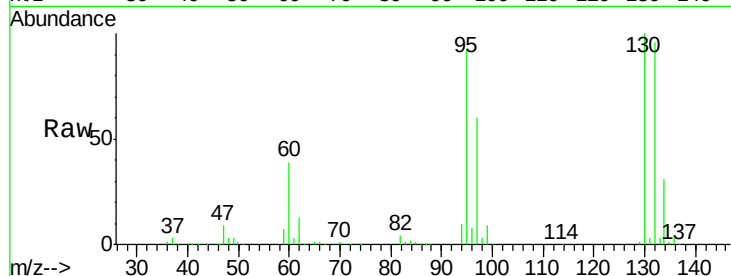
Ion Ratio Lower Upper

95 100

97 64.5 44.4 82.4

132 103.4 72.4 134.4

130 108.2 74.1 137.5



#35

Methylcyclohexane

Concen: 180.87 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

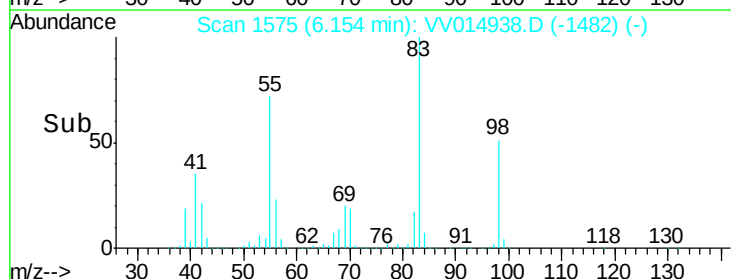
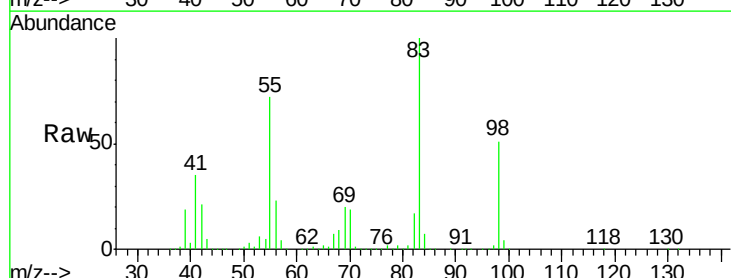
Tgt Ion: 83 Resp: 905211

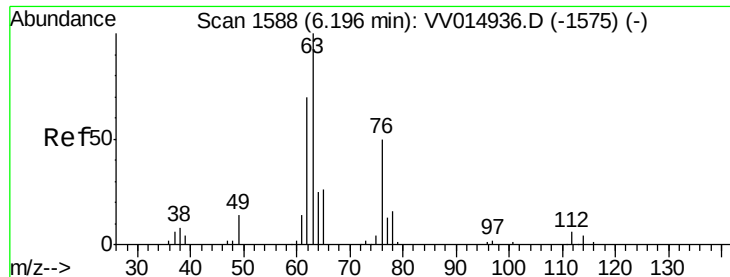
Ion Ratio Lower Upper

83 100

55 71.8 57.5 86.3

98 51.2 39.5 59.3

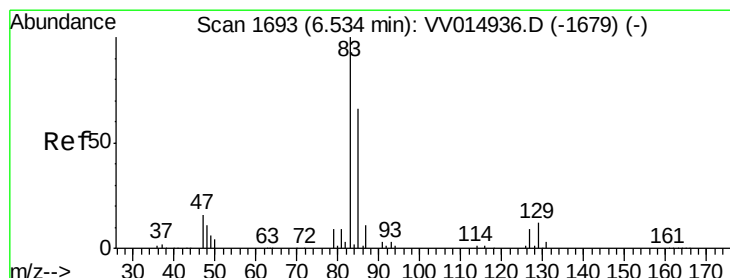
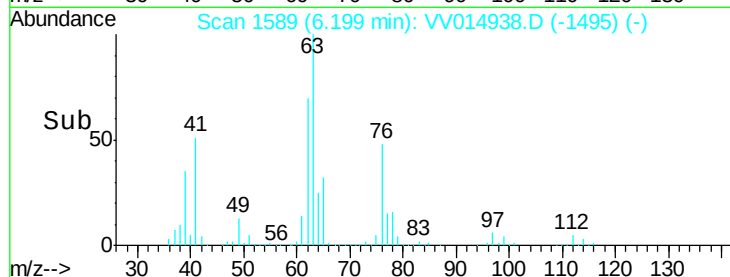
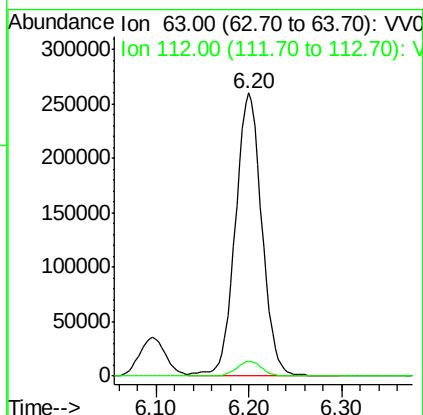
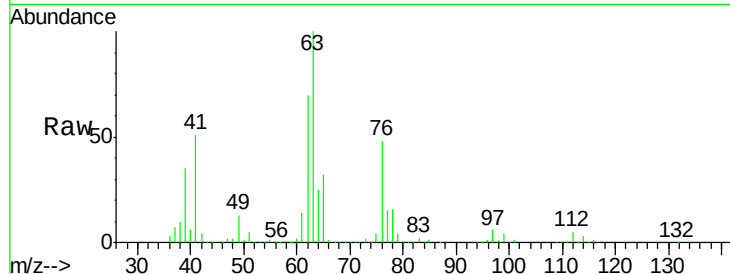




#37
 1,2-Dichloropropane
 Concen: 167.67 ug/L
 RT: 6.20 min Scan# 1589
 Delta R.T. 0.00 min
 Lab File: VV014938.D
 Acq: 16 Mar 2020 11:17

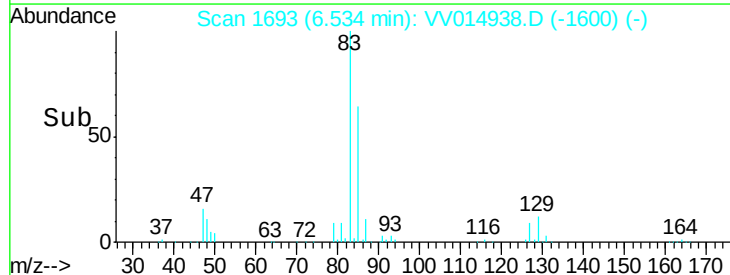
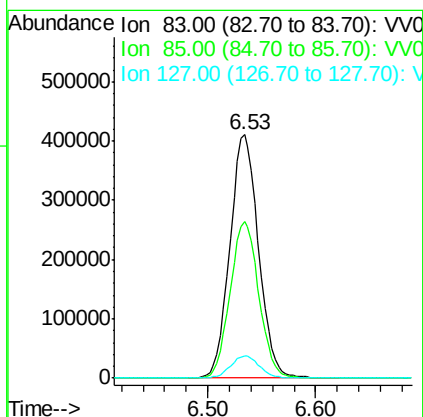
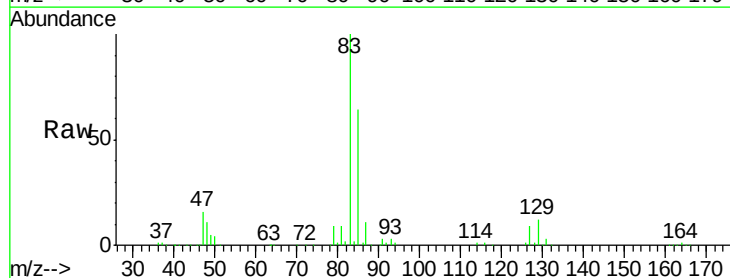
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD20061

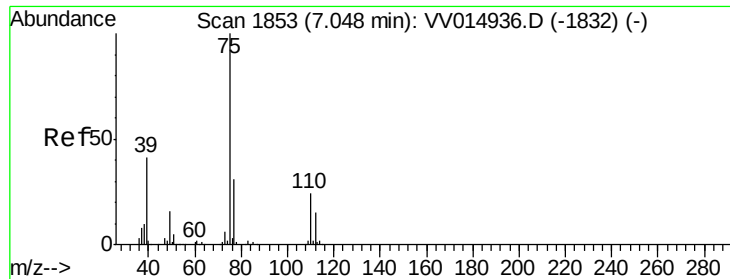
Tgt Ion: 63 Resp: 513141
 Ion Ratio Lower Upper
 63 100
 112 5.1 4.4 6.6



#38
 Bromodichloromethane
 Concen: 189.51 ug/L
 RT: 6.53 min Scan# 1693
 Delta R.T. 0.00 min
 Lab File: VV014938.D
 Acq: 16 Mar 2020 11:17

Tgt Ion: 83 Resp: 759937
 Ion Ratio Lower Upper
 83 100
 85 64.1 46.0 85.4
 127 9.1 7.5 11.3





#39

cis-1,3-Dichloropropene

Concen: 190.45 ug/L

RT: 7.05 min Scan# 1853

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampleId :

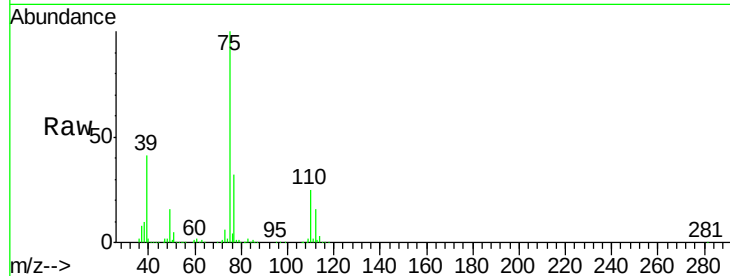
VSTD20061

Tgt Ion: 75 Resp: 937450

Ion Ratio Lower Upper

75 100

77 31.5 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.05

600000

500000

400000

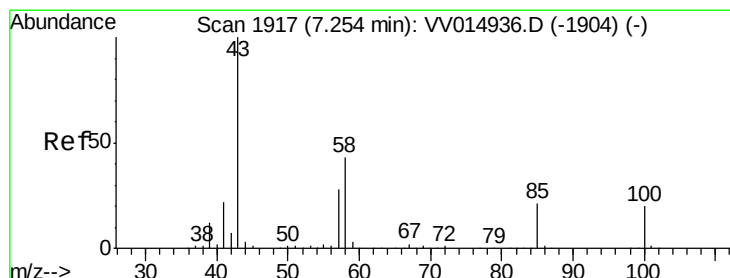
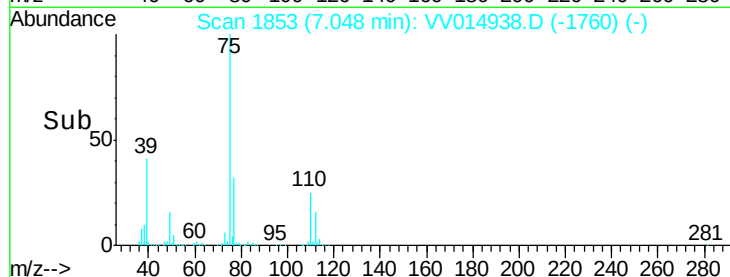
300000

200000

100000

0

Time--> 6.90 7.00 7.10 7.20



#40

4-Methyl-2-pentanone

Concen: 328.59 ug/L

RT: 7.25 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

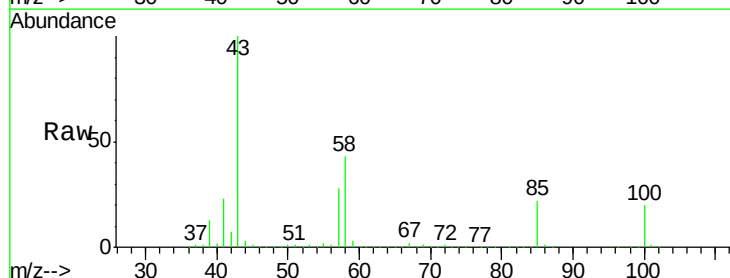
Tgt Ion: 43 Resp: 1452503

Ion Ratio Lower Upper

43 100

58 43.1 33.9 50.9

100 19.5 15.1 22.7



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 100.00 (99.70 to 100.70): VV0

7.25

1000000

800000

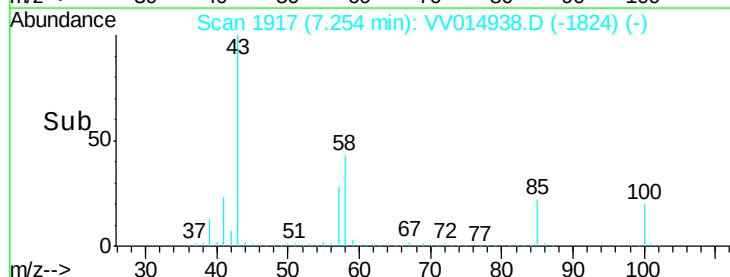
600000

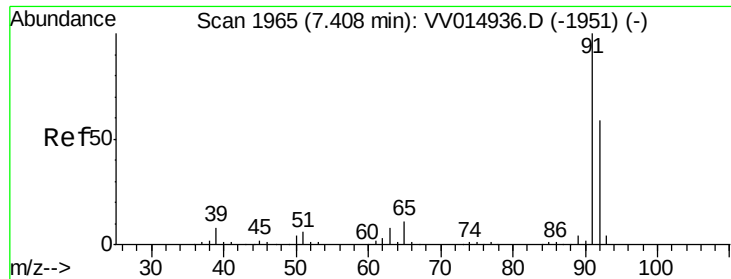
400000

200000

0

Time--> 7.15 7.20 7.25 7.30 7.35





#42

Toluene

Concen: 182.53 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampleId :

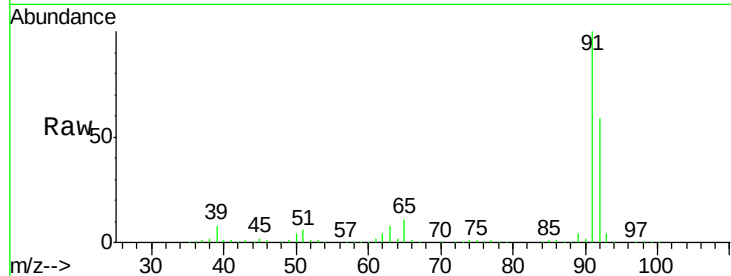
VSTD20061

Tgt Ion: 91 Resp: 2343146

Ion Ratio Lower Upper

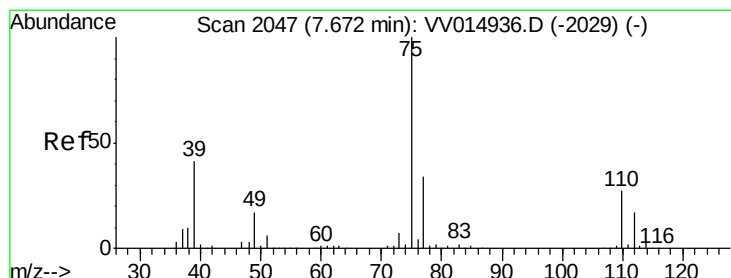
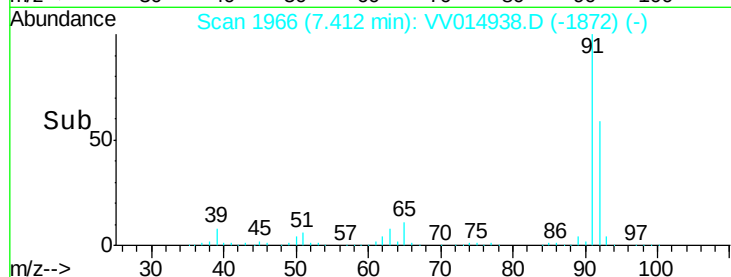
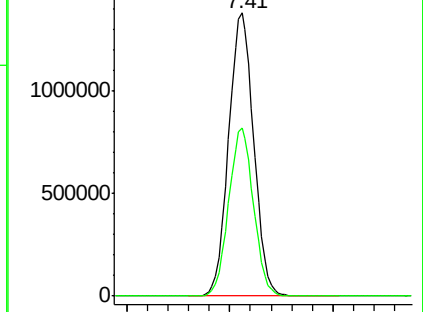
91 100

92 59.2 41.4 76.8



Abundance Ion 91.00 (90.70 to 91.70): VV014938.D (-1951) (-)

Ion 92.00 (91.70 to 92.70): VV014938.D (-1951) (-)



#44

trans-1,3-Dichloropropene

Concen: 192.69 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VV014938.D

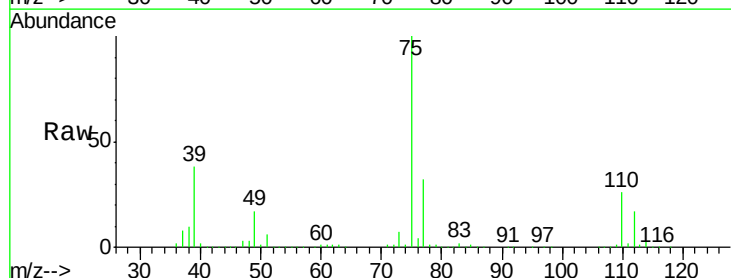
Acq: 16 Mar 2020 11:17

Tgt Ion: 75 Resp: 853879

Ion Ratio Lower Upper

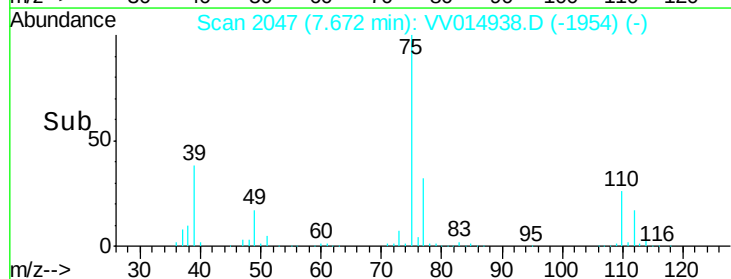
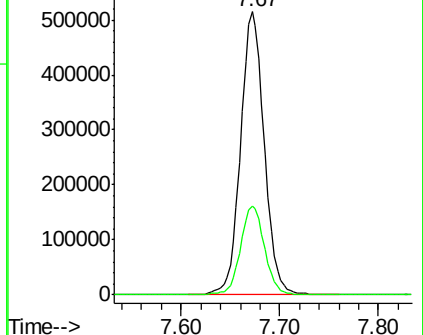
75 100

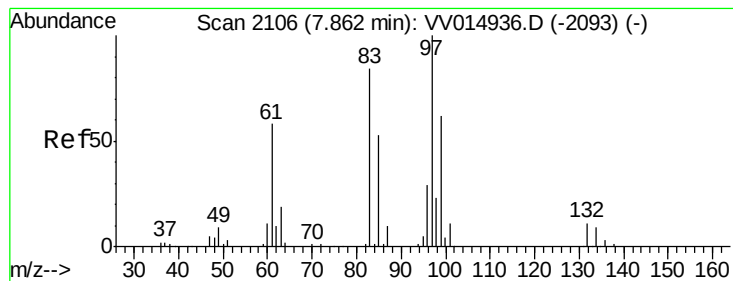
77 31.6 23.5 43.7



Abundance Ion 75.00 (74.70 to 75.70): VV014938.D (-2029) (-)

Ion 77.00 (76.70 to 77.70): VV014938.D (-2029) (-)





#45

1,1,2-Trichloroethane

Concen: 187.37 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampleID :

VSTD20061

Tgt Ion: 97 Resp: 546420

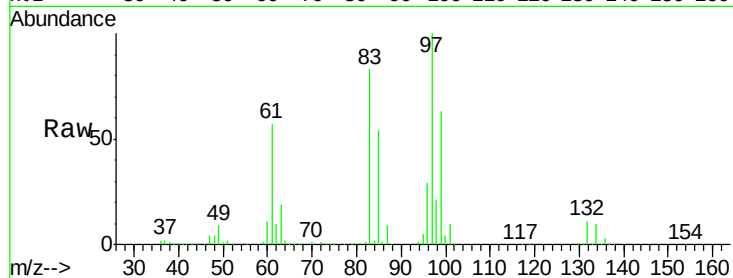
Ion Ratio Lower Upper

97 100

99 63.1 43.7 81.1

83 82.7 58.6 108.8

85 53.9 37.0 68.6

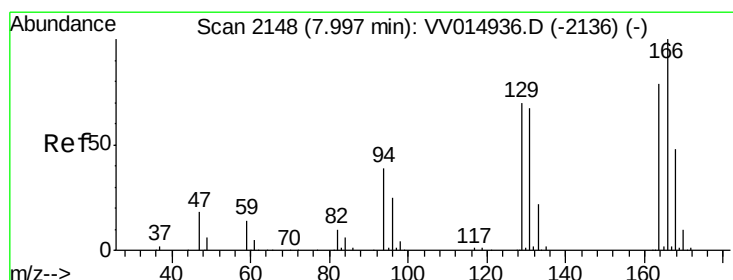
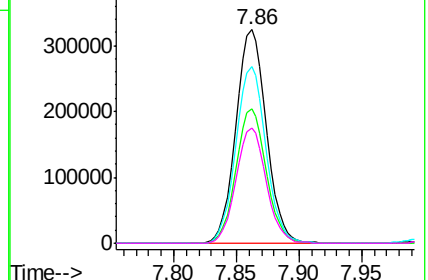
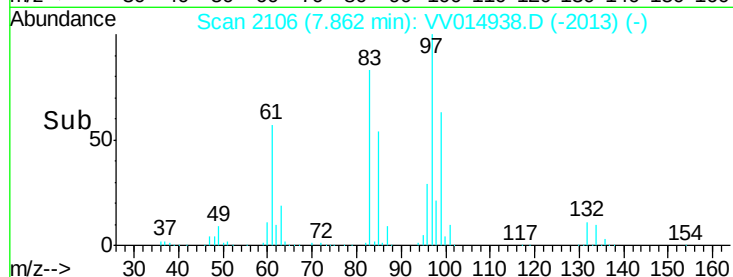


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46

Tetrachloroethene

Concen: 201.83 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Tgt Ion: 164 Resp: 517217

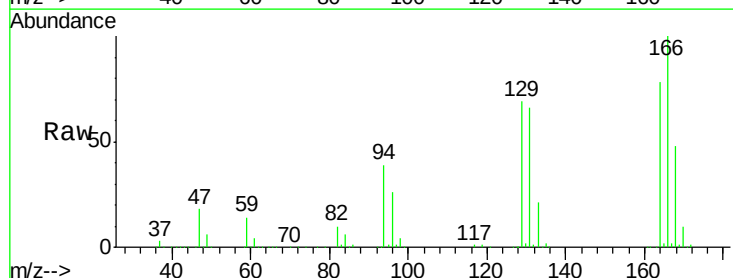
Ion Ratio Lower Upper

164 100

129 87.9 62.0 115.2

131 84.1 59.5 110.5

166 128.2 88.5 164.4

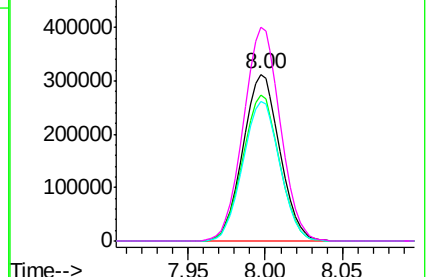
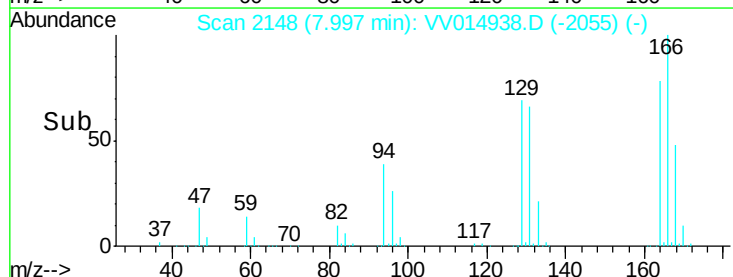


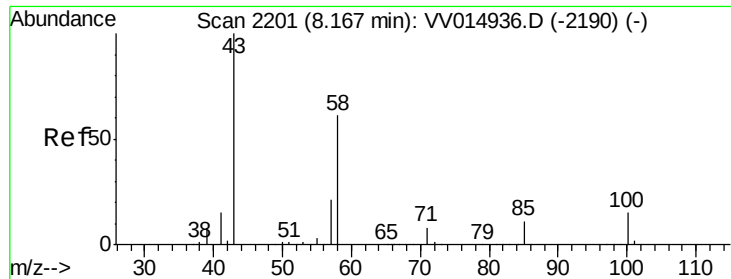
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



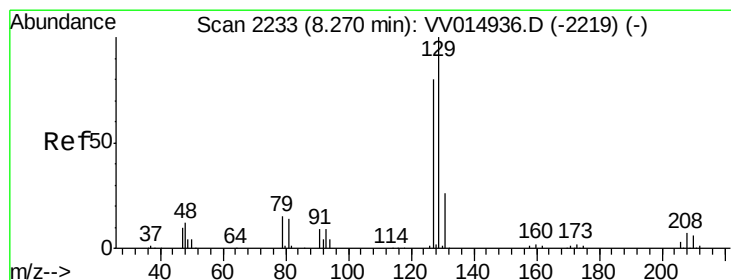
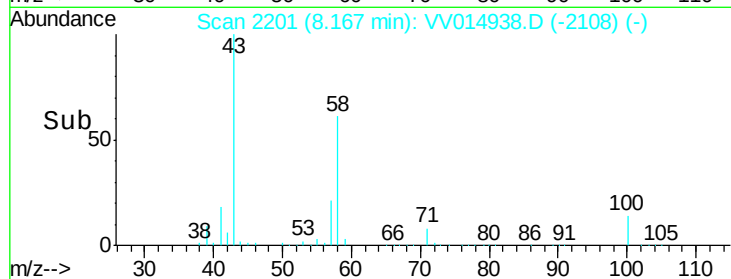
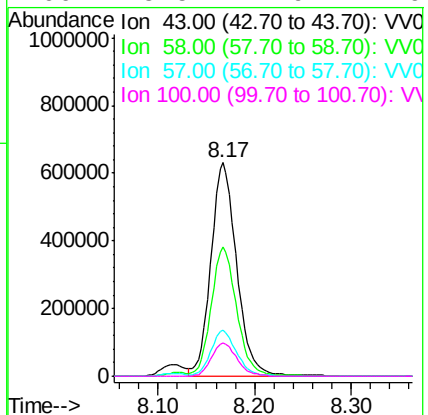
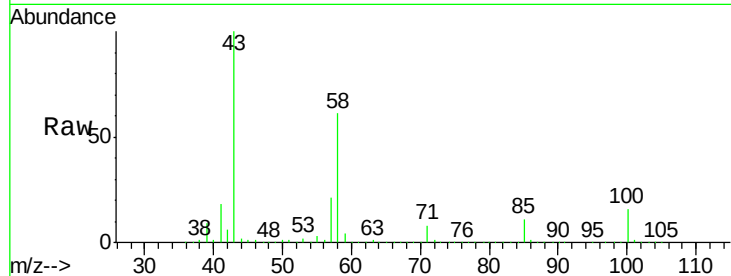


#48
2-Hexanone
Concen: 334.77 ug/L
RT: 8.17 min Scan# 2201
Delta R.T. 0.00 min
Lab File: VV014938.D
Acq: 16 Mar 2020 11:17

Instrument :
MSVOA_V
ClientSampleId :
VSTD20061

Tgt Ion: 43 Resp: 1162591

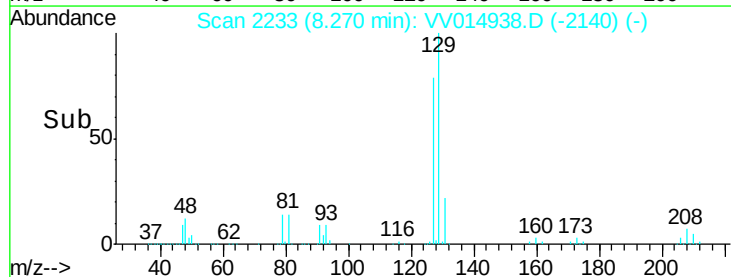
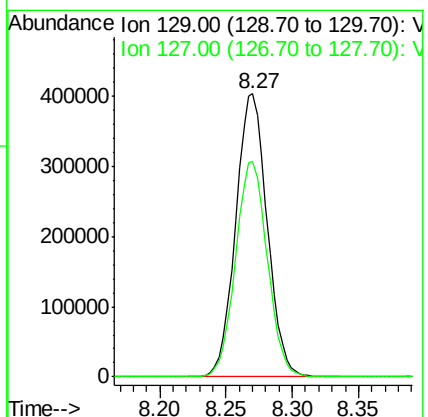
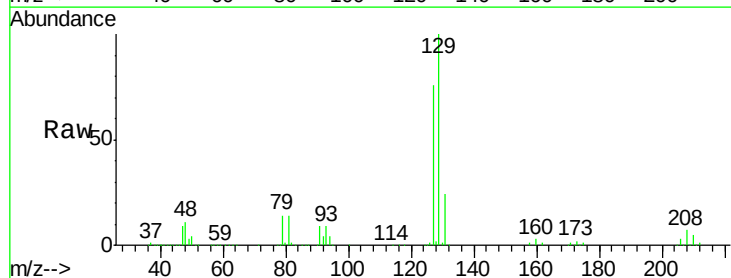
Ion	Ratio	Lower	Upper
43	100		
58	59.4	46.9	70.3
57	21.5	16.2	24.4
100	15.5	11.9	17.9

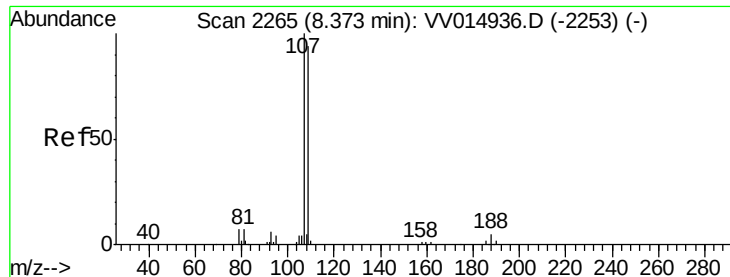


#49
Dibromochloromethane
Concen: 208.74 ug/L
RT: 8.27 min Scan# 2233
Delta R.T. 0.00 min
Lab File: VV014938.D
Acq: 16 Mar 2020 11:17

Tgt Ion: 129 Resp: 665514

Ion	Ratio	Lower	Upper
129	100		
127	76.1	55.9	103.9

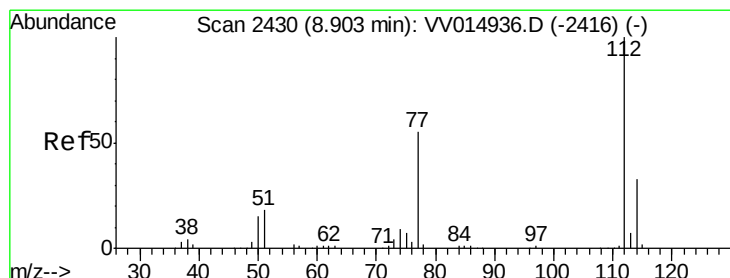
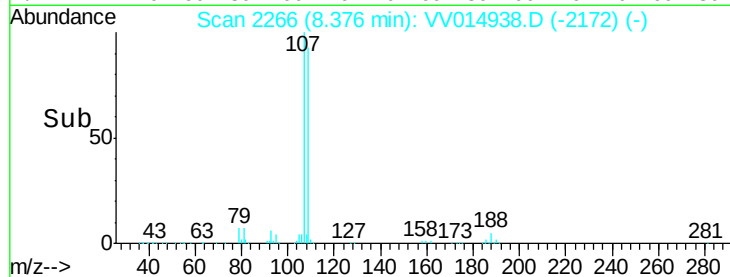
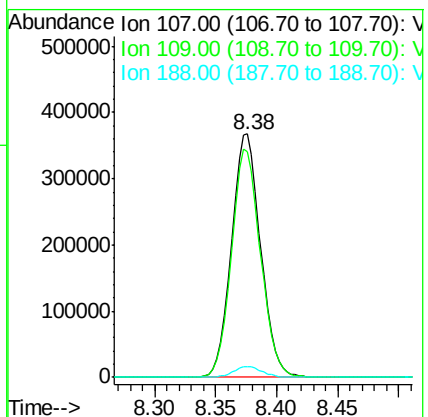
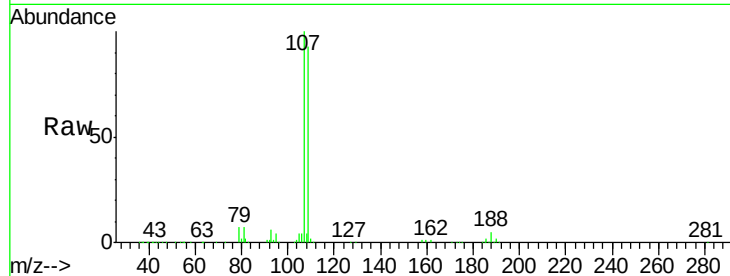




#50
1,2-Dibromoethane
Concen: 193.33 ug/L
RT: 8.38 min Scan# 2266
Delta R.T. 0.00 min
Lab File: VV014938.D
Acq: 16 Mar 2020 11:17

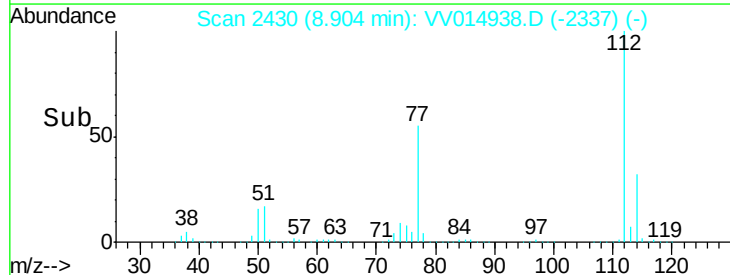
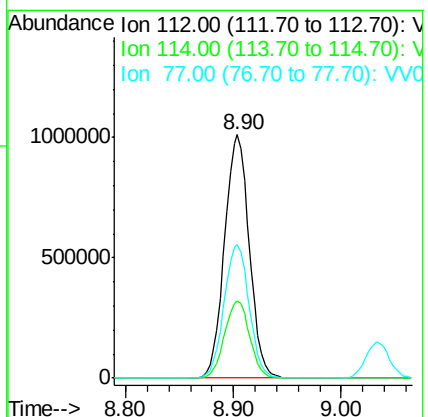
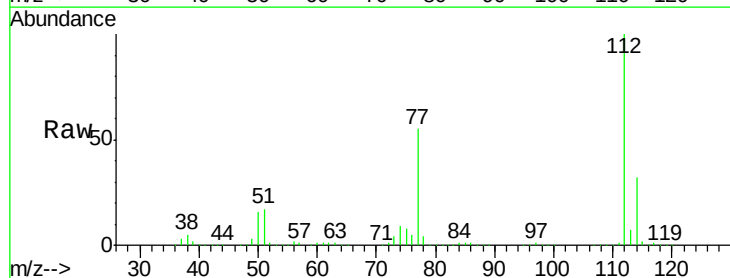
Instrument :
MSVOA_V
ClientSampleId :
VSTD20061

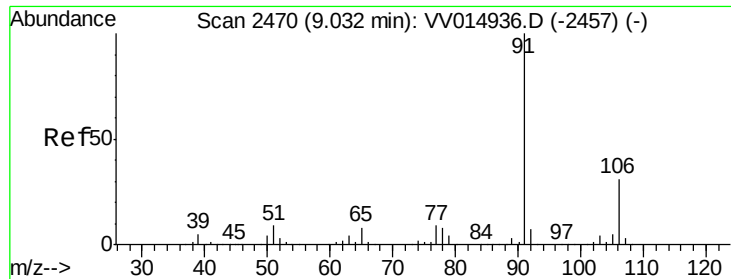
Tgt Ion:107 Resp: 608967
Ion Ratio Lower Upper
107 100
109 92.9 66.1 122.7
188 4.6 4.0 6.0



#51
Chlorobenzene
Concen: 193.41 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV014938.D
Acq: 16 Mar 2020 11:17

Tgt Ion:112 Resp: 1616128
Ion Ratio Lower Upper
112 100
114 31.9 22.8 42.4
77 55.1 44.5 66.7





#52

Ethylbenzene

Concen: 189.50 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampleId :

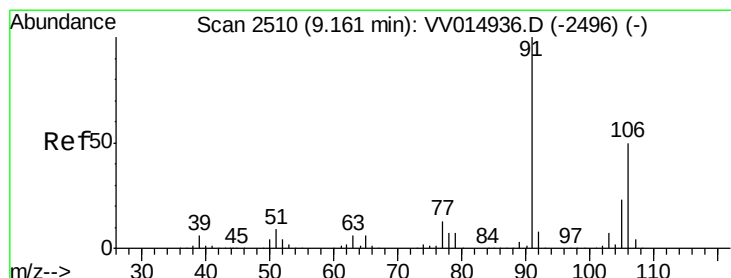
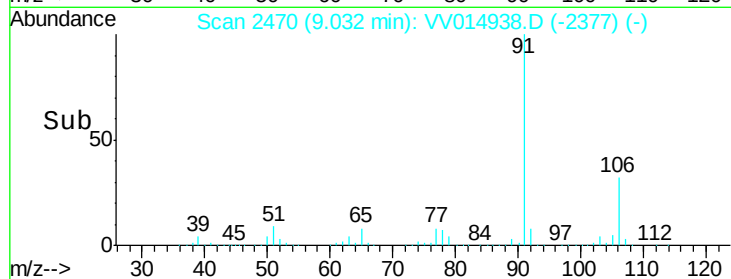
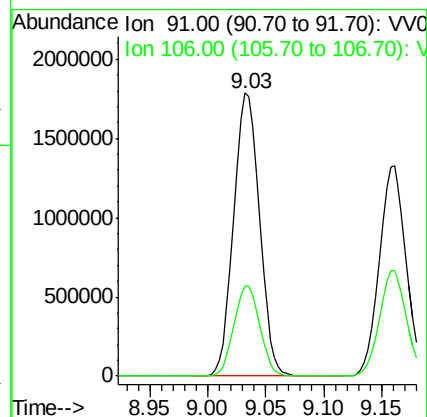
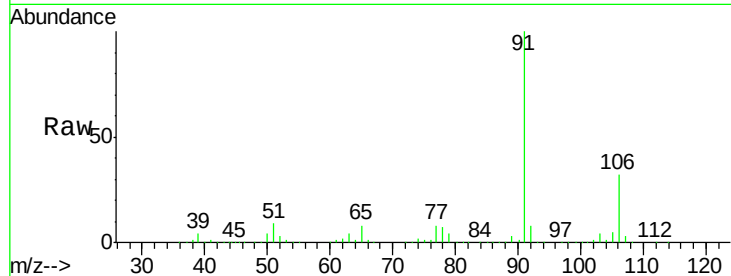
VSTD20061

Tgt Ion: 91 Resp: 2746543

Ion Ratio Lower Upper

91 100

106 31.8 21.9 40.7



#53

m,p-Xylene

Concen: 197.10 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV014938.D

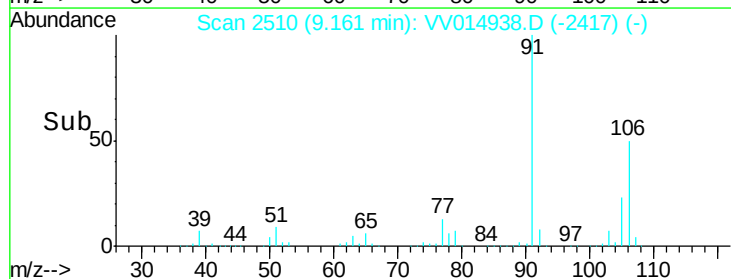
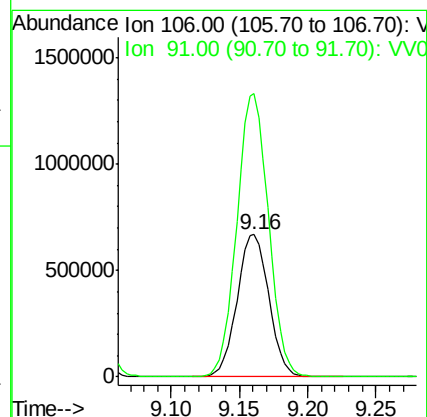
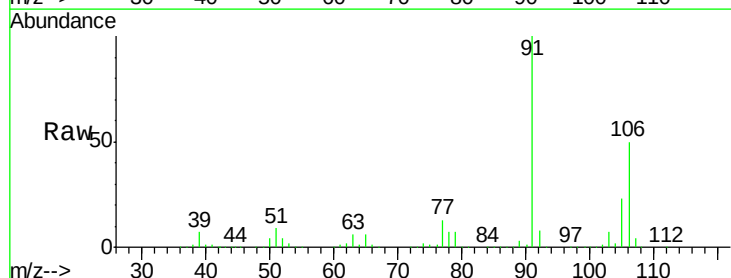
Acq: 16 Mar 2020 11:17

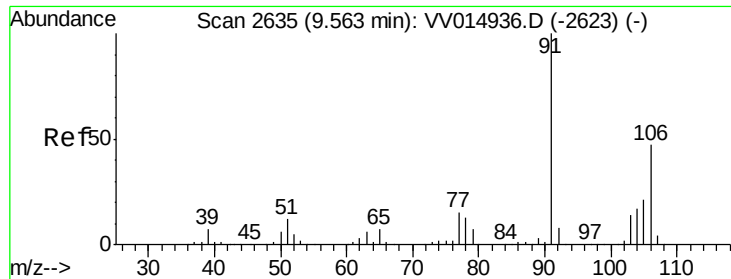
Tgt Ion: 106 Resp: 1079236

Ion Ratio Lower Upper

106 100

91 199.3 140.3 260.6





#54

o-xylene

Concen: 197.55 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampleId :

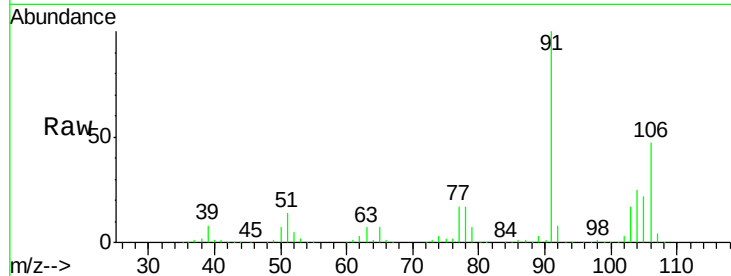
VSTD20061

Tgt Ion:106 Resp: 1062323

Ion Ratio Lower Upper

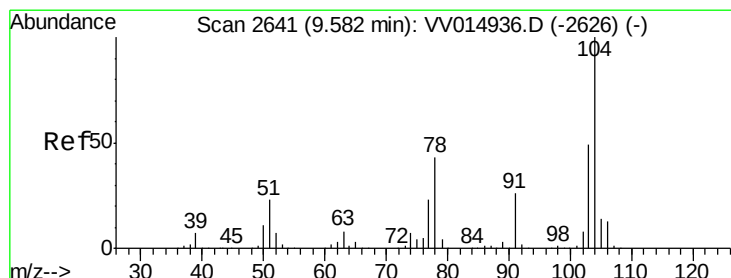
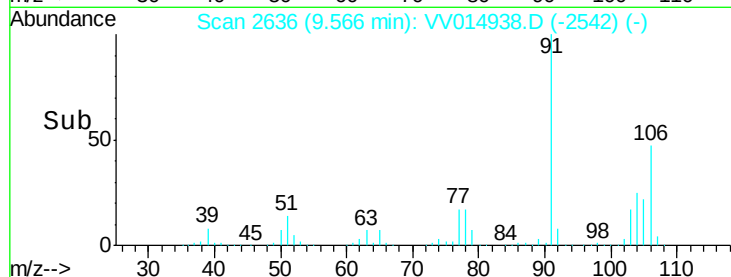
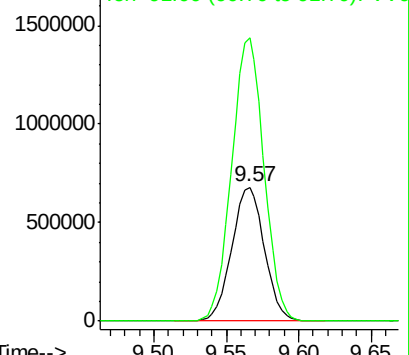
106 100

91 211.4 147.9 274.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 198.61 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV014938.D

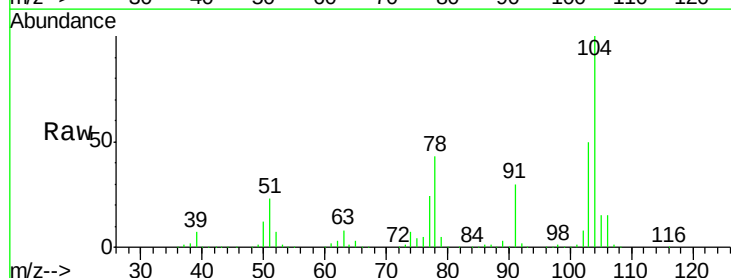
Acq: 16 Mar 2020 11:17

Tgt Ion:104 Resp: 1825195

Ion Ratio Lower Upper

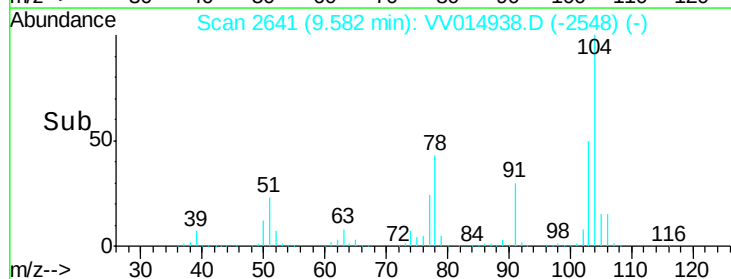
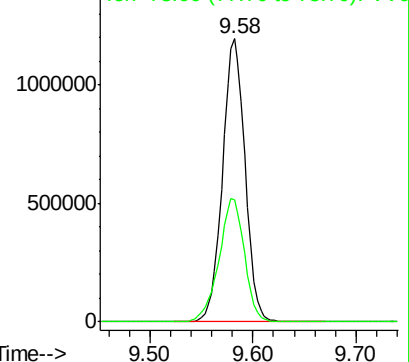
104 100

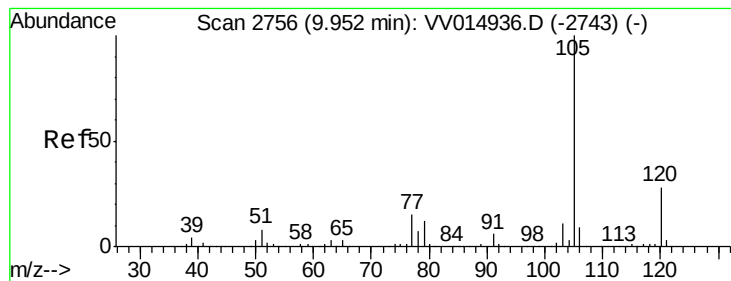
78 43.3 30.1 55.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 195.58 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampleId :

VSTD20061

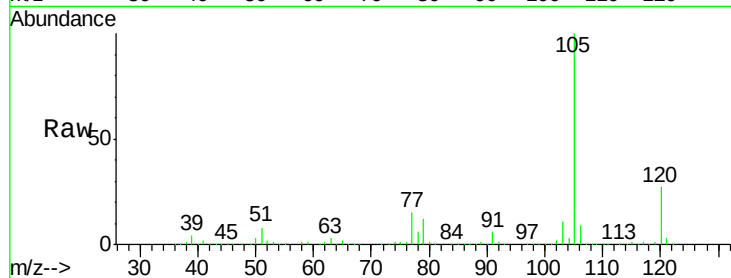
Tgt Ion:105 Resp: 2821102

Ion Ratio Lower Upper

105 100

120 27.3 21.6 32.4

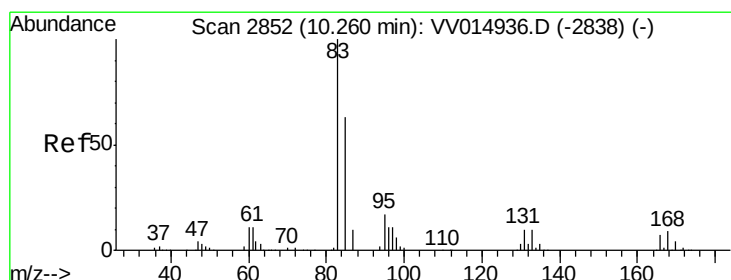
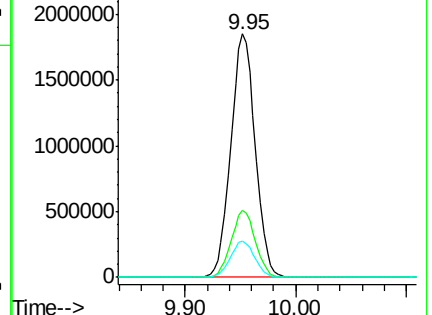
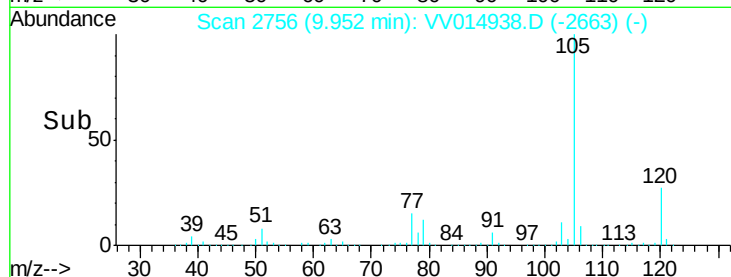
77 14.8 11.9 17.9



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 183.01 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

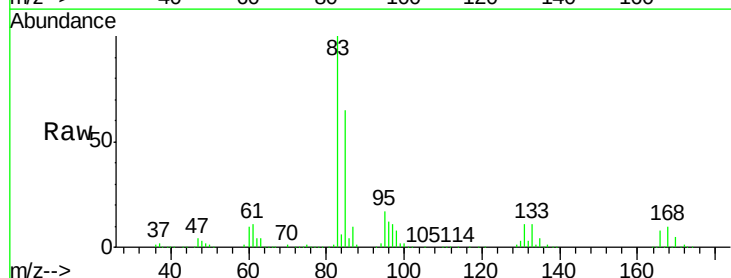
Tgt Ion: 83 Resp: 910977

Ion Ratio Lower Upper

83 100

85 64.5 44.0 81.6

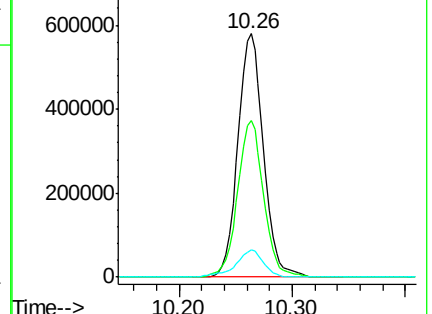
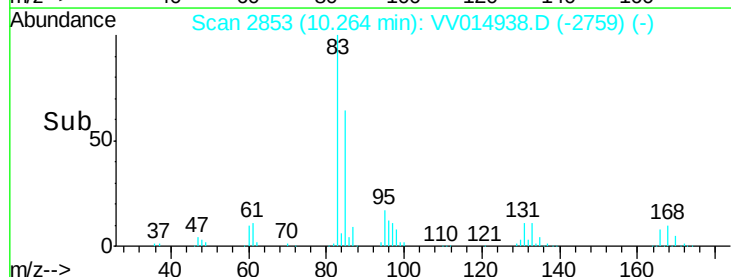
131 11.0 8.5 12.7

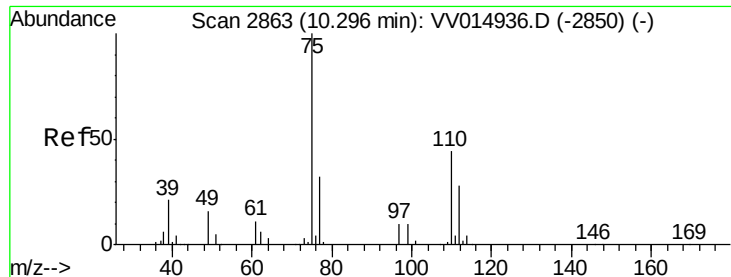


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 180.74 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampleId :

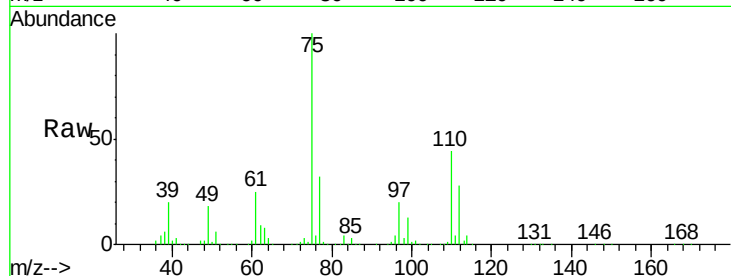
VSTD20061

Tgt Ion: 75 Resp: 721456

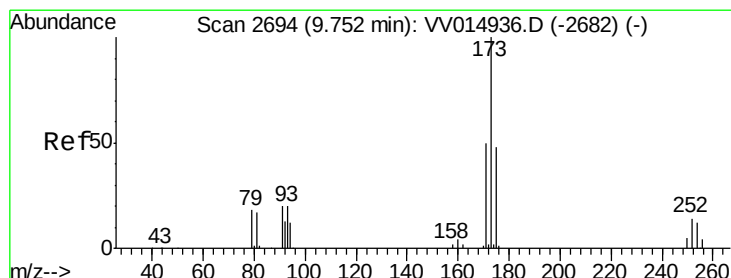
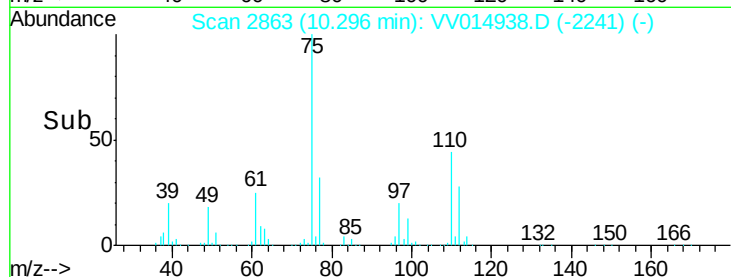
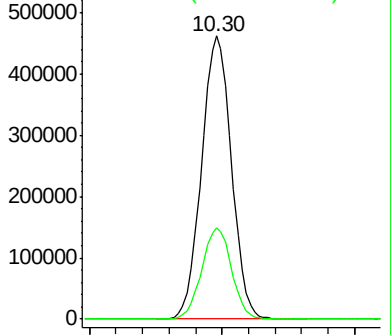
Ion Ratio Lower Upper

75 100

77 32.1 26.6 40.0



Abundance Ion 75.00 (74.70 to 75.70): VV014936.D (-2850) (-)



#61

Bromoform

Concen: 205.79 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

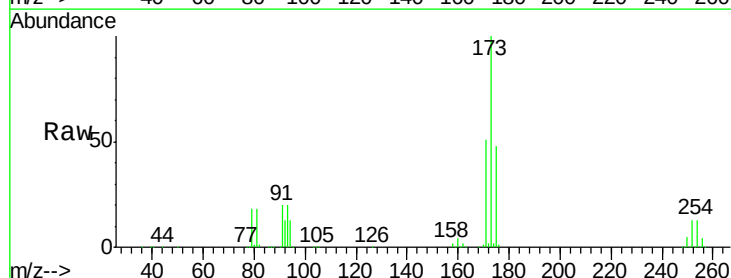
Tgt Ion: 173 Resp: 512832

Ion Ratio Lower Upper

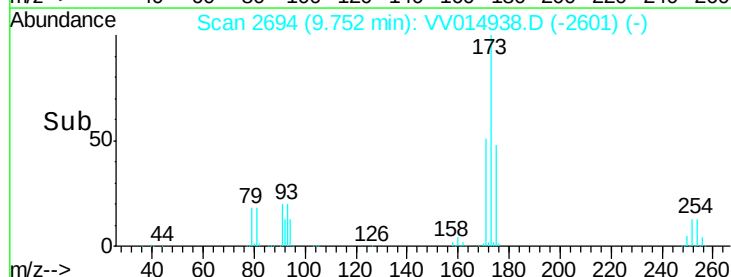
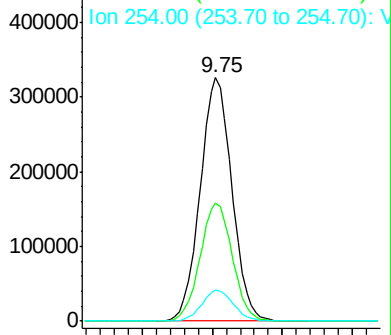
173 100

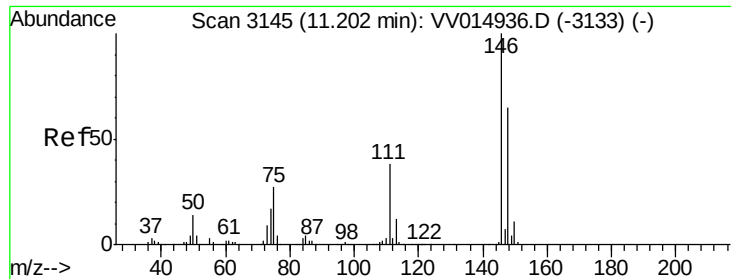
175 49.1 39.4 59.2

254 12.7 10.2 15.4



Abundance Ion 173.00 (172.70 to 173.70): VV014936.D (-2682) (-)





#62

1,3-Dichlorobenzene

Concen: 193.88 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampleId :

VSTD20061

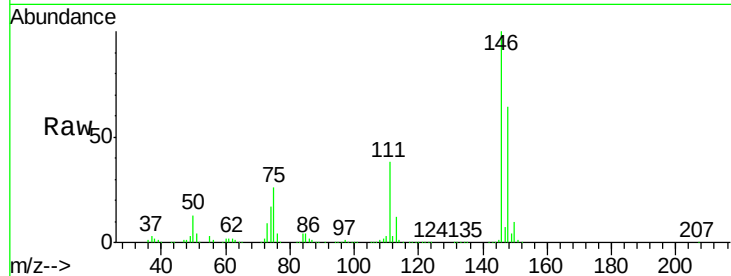
Tgt Ion:146 Resp: 1439480

Ion Ratio Lower Upper

146 100

111 37.5 26.5 49.3

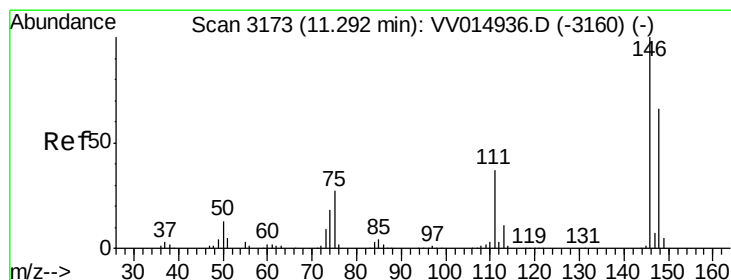
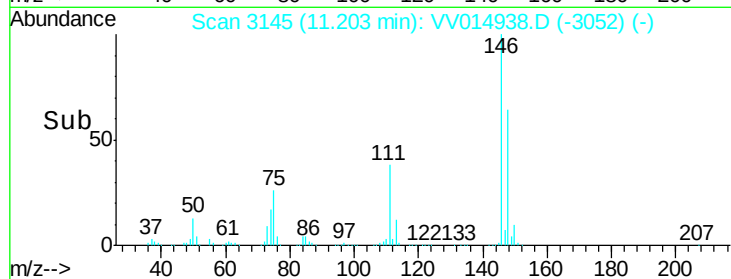
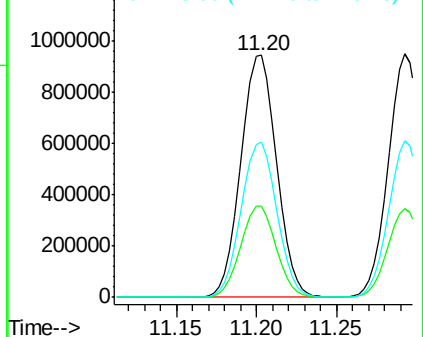
148 64.0 45.4 84.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 192.75 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

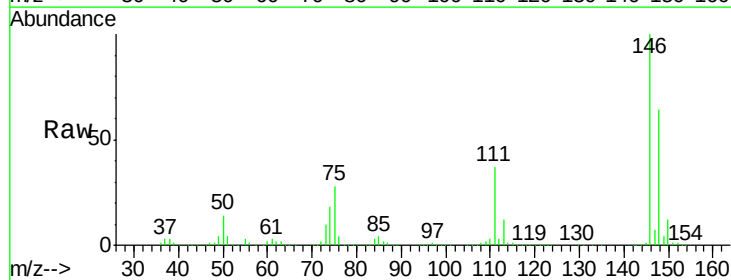
Tgt Ion:146 Resp: 1434560

Ion Ratio Lower Upper

146 100

111 36.6 26.0 48.2

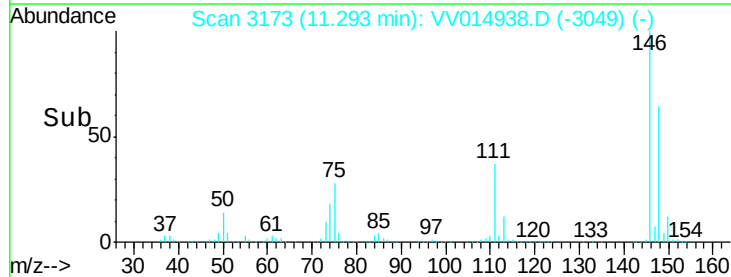
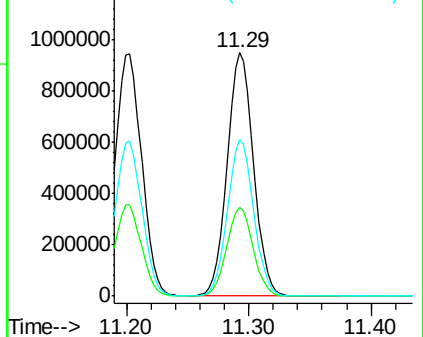
148 64.2 46.1 85.5

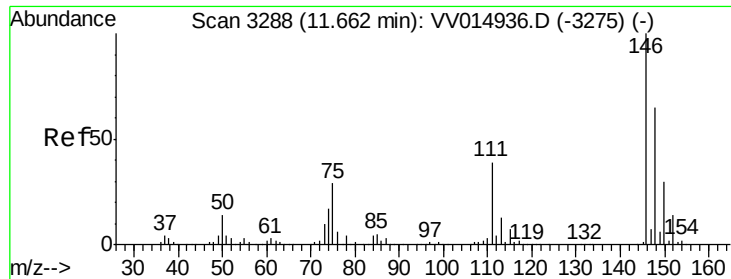


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

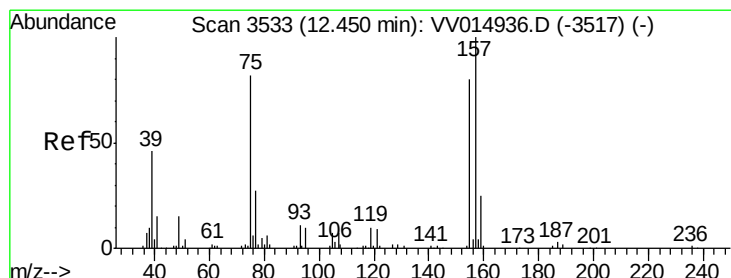
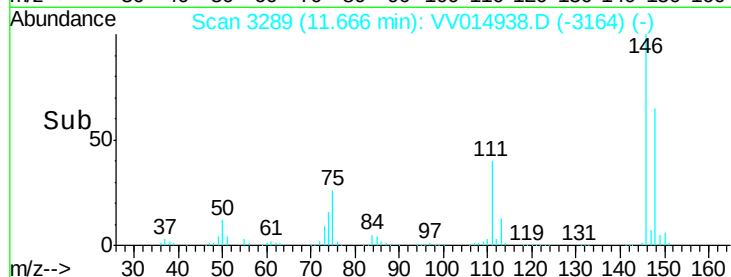
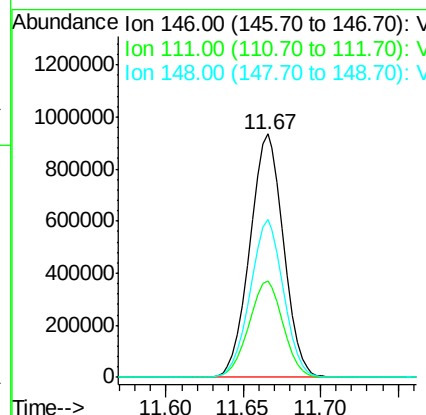
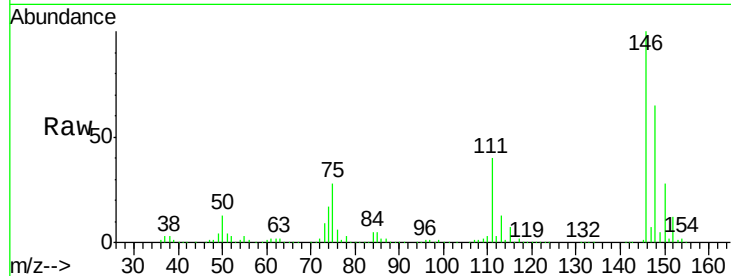




#65
 1,2-Dichlorobenzene
 Concen: 190.38 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV014938.D
 Acq: 16 Mar 2020 11:17

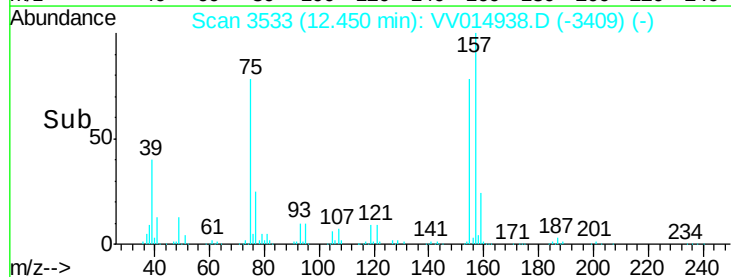
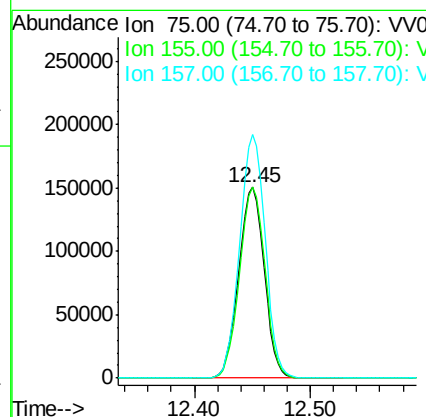
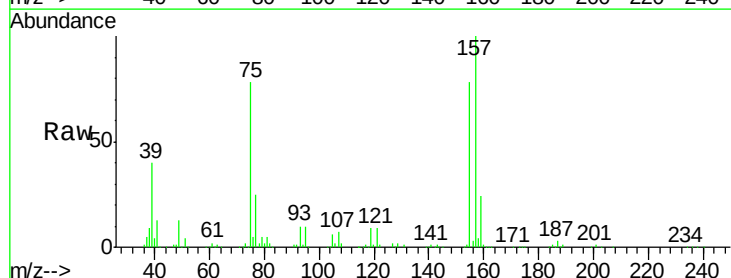
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD20061

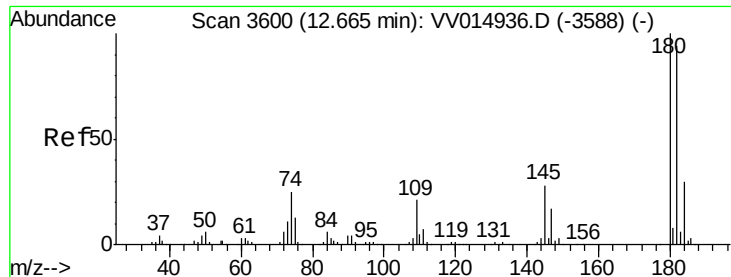
Tgt Ion:146 Resp: 1413177
 Ion Ratio Lower Upper
 146 100
 111 39.8 31.6 47.4
 148 64.7 52.2 78.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 186.89 ug/L
 RT: 12.45 min Scan# 3533
 Delta R.T. 0.00 min
 Lab File: VV014938.D
 Acq: 16 Mar 2020 11:17

Tgt Ion: 75 Resp: 229511
 Ion Ratio Lower Upper
 75 100
 155 100.1 77.7 116.5
 157 127.7 97.2 145.8

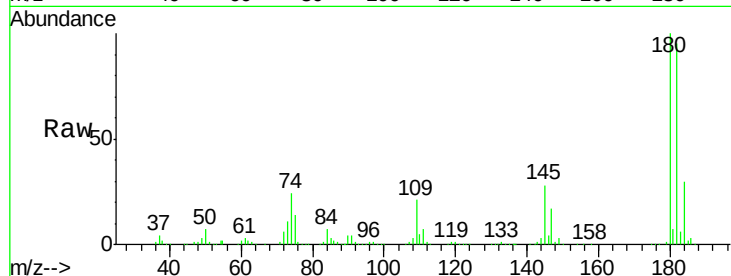




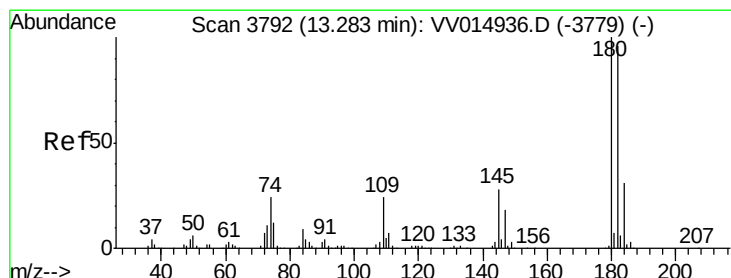
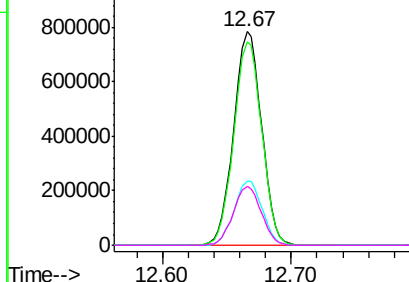
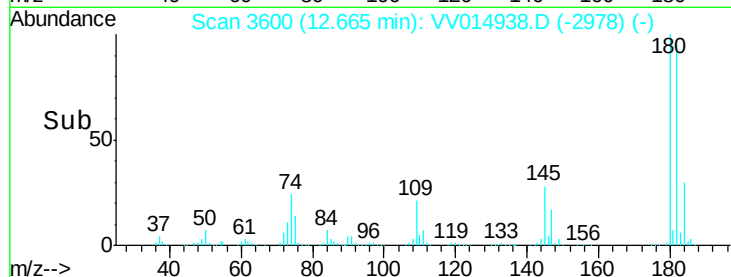
#67
 1,3,5-Trichlorobenzene
 Concen: 203.01 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VV014938.D
 Acq: 16 Mar 2020 11:17

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD20061

Tgt Ion:180 Resp: 1175981
 Ion Ratio Lower Upper
 180 100
 182 95.6 75.7 113.5
 184 30.3 24.2 36.4
 145 27.7 22.0 33.0

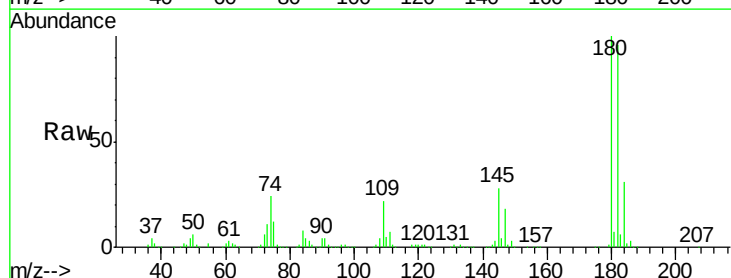


Abundance Ion 180.00 (179.70 to 180.70): V
 1200000
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

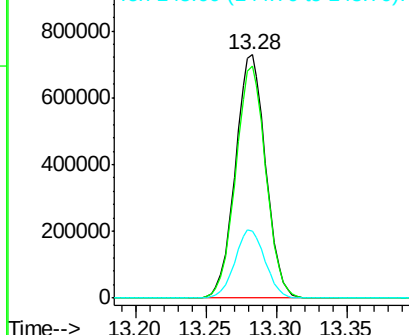
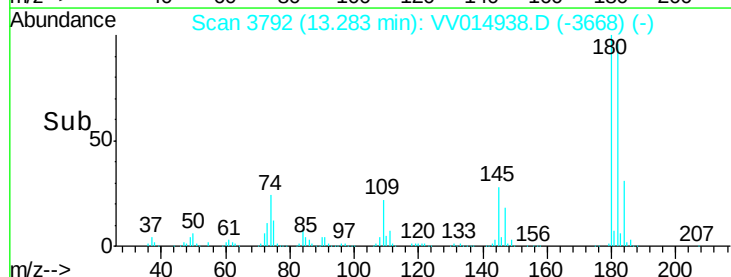


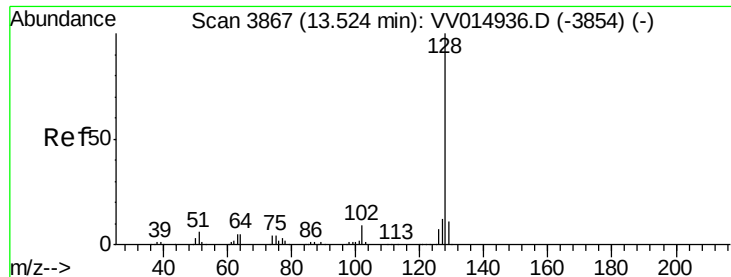
#68
 1,2,4-trichlorobenzene
 Concen: 207.75 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV014938.D
 Acq: 16 Mar 2020 11:17

Tgt Ion:180 Resp: 1094997
 Ion Ratio Lower Upper
 180 100
 182 95.0 76.3 114.5
 145 28.0 23.1 34.7



Abundance Ion 180.00 (179.70 to 180.70): V
 1000000
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 201.07 ug/L

RT: 13.52 min Scan# 3866

Delta R.T. -0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

Instrument :

MSVOA_V

ClientSampleId :

VSTD20061

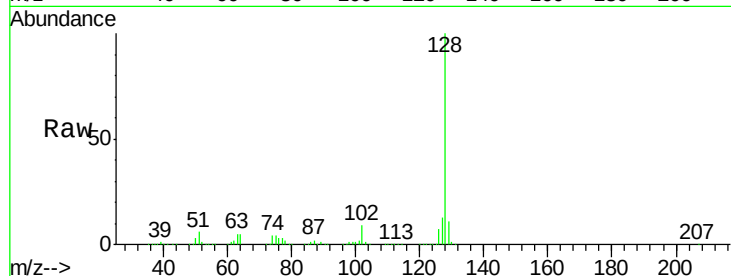
Tgt Ion:128 Resp: 1558676

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.4

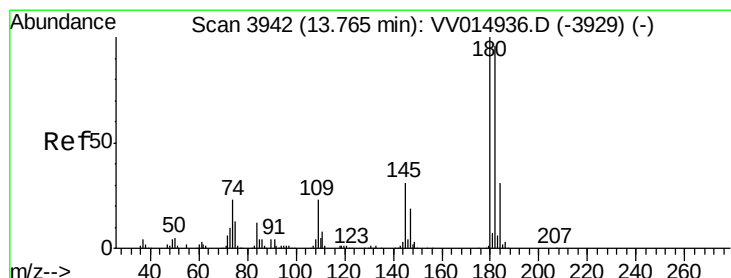
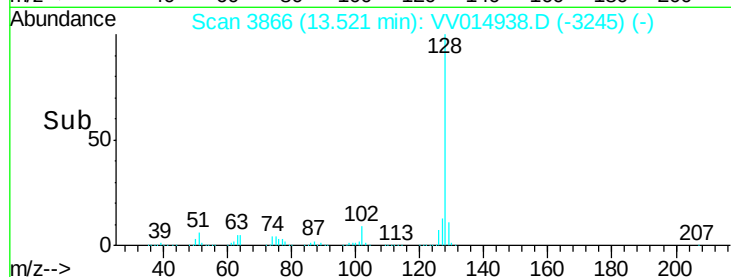
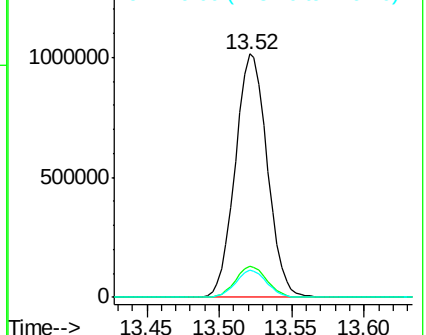
129 11.0 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 204.97 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. 0.00 min

Lab File: VV014938.D

Acq: 16 Mar 2020 11:17

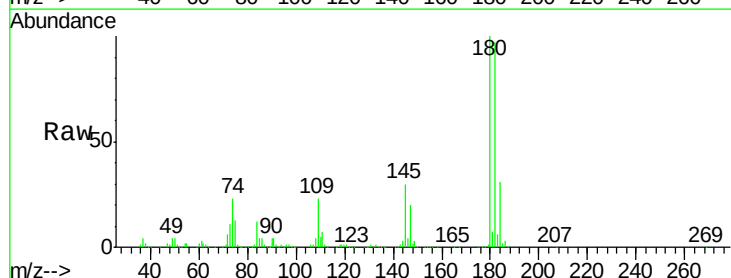
Tgt Ion:180 Resp: 1081997

Ion Ratio Lower Upper

180 100

182 96.1 76.2 114.4

145 30.0 24.1 36.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

