

Data File : VW014874.D
Acq On : 05 Feb 2020 15:06
Operator : SY/VA
Sample : VSTD10017
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD10004

Quant Time: Feb 05 15:31:47 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM020520S.M
Quant Title : VOC Analysis
QLast Update : Wed Feb 05 14:42:27 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1065797	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	987638	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	458871	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	1661925	99.55	ug/L	0.00
7) Chloroethane-d5	2.89	69	1358413	85.11	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.02	63	3108688	87.66	ug/L	0.00
20) 2-Butanone-d5	7.07	46	1043892	166.38	ug/L	0.00
24) Chloroform-d	7.65	84	2880933	84.91	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	1583650	83.03	ug/L	0.00
29) Benzene-d6	8.27	84	5859990	84.17	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	1951712	85.53	ug/L	0.00
37) Toluene-d8	10.32	98	5296289	87.15	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.57	79	837342	92.70	ug/L	0.00
39) 2-Hexanone-d5	10.92	63	858243	192.14	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	1505963	84.70	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	1703956	88.63	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	1178467	87.800	ug/L	92
3) Chloromethane	2.22	50	1692324	91.980	ug/L	98
5) Vinyl chloride	2.37	62	1997405	108.000	ug/L	98
6) Bromomethane	2.78	94	1029458	95.117	ug/L	100
8) Chloroethane	2.92	64	1127990	93.936	ug/L	98
9) Trichlorofluoromethane	3.25	101	893284	82.962	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	1471611	89.169	ug/L	99
12) 1,1-Dichloroethene	4.04	96	1481578	95.188	ug/L	98
13) Acetone	4.12	43	848903	125.112	ug/L	100
14) Carbon disulfide	4.39	76	4359596	92.282	ug/L	99
15) Methyl Acetate	4.67	43	858321	84.524	ug/L	99
16) Methylene chloride	4.92	84	1554798	79.003	ug/L	97
17) Methyl tert-butyl Ether	5.42	73	1980598	100.267	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	1495724	93.641	ug/L	96
19) 1,1-Dichloroethane	6.21	63	3029311	93.399	ug/L	99
21) 2-Butanone	7.17	43	1180991	162.196	ug/L	98
22) cis-1,2-Dichloroethene	7.17	96	1666563	100.944	ug/L	100
23) Bromochloromethane	7.51	128	660772	93.594	ug/L	98
25) Chloroform	7.67	83	2769482	93.530	ug/L	100
27) 1,2-Dichloroethane	8.40	62	1884096	91.074	ug/L	99
30) Cyclohexane	7.95	56	2984958	99.998	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	2096467	90.454	ug/L	100
32) Carbon tetrachloride	8.07	117	1931231	91.727	ug/L	100
34) Benzene	8.32	78	6314179	91.300	ug/L	100
35) Trichloroethene	9.09	95	1608523	94.179	ug/L	100
36) Methylcyclohexane	9.34	83	2918484	97.563	ug/L	99
40) 1,2-Dichloropropane	9.37	63	1720260	92.230	ug/L	100
41) Bromodichloromethane	9.64	83	2073971	97.038	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	2719474	104.746	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	2531317	184.828	ug/L	99

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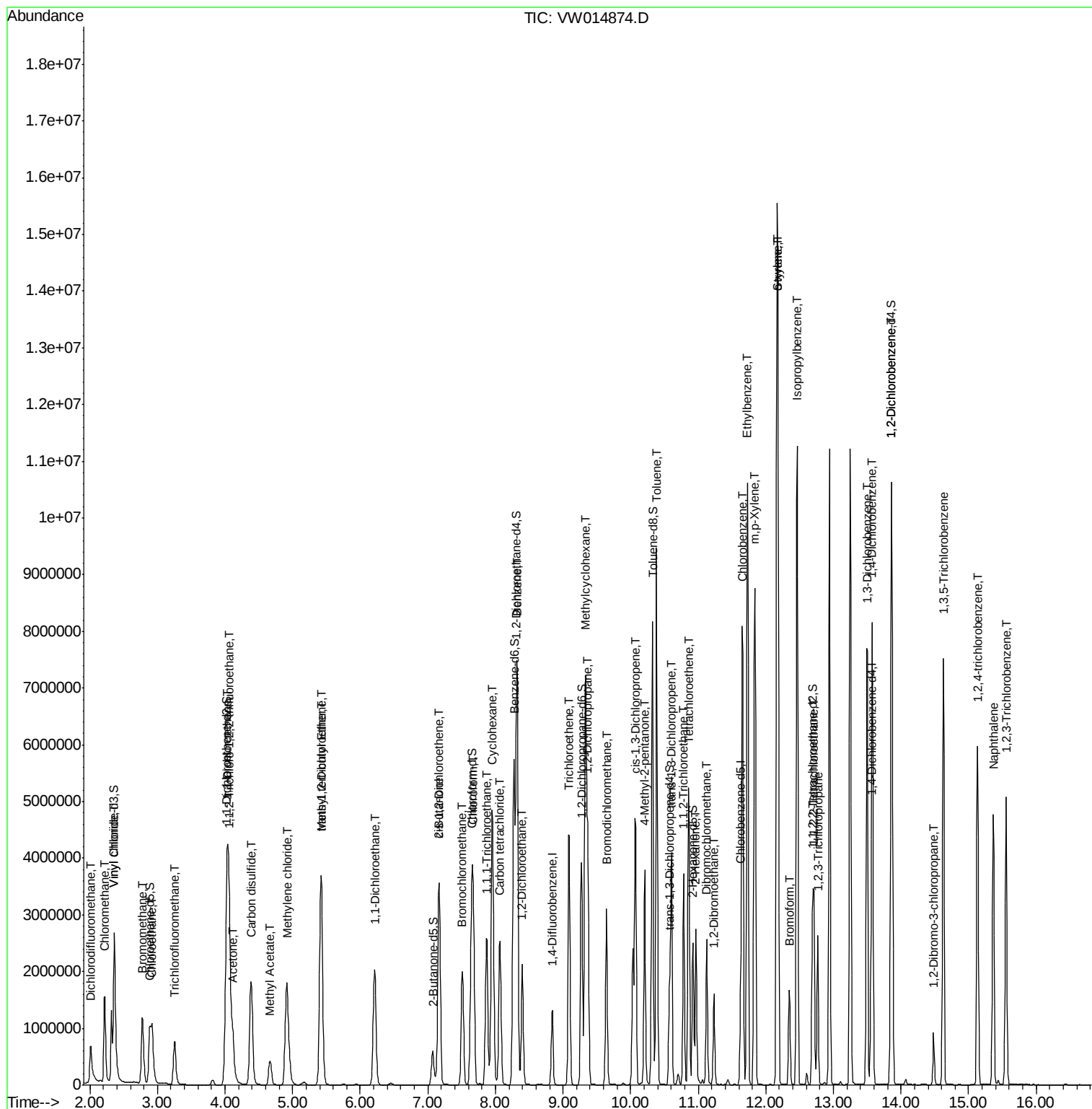
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.38	91	6606996	95.488	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	2182685	102.164	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	1167813	94.618	ug/L	98
47) Tetrachloroethene	10.86	164	1169915	91.818	ug/L	99
49) 2-Hexanone	10.96	43	1805960	191.112	ug/L	99
50) Dibromochloromethane	11.13	129	1324642	99.829	ug/L	99
51) 1,2-Dibromoethane	11.23	107	1107424	95.426	ug/L	100
52) Chlorobenzene	11.65	112	4052589	96.008	ug/L	97
53) Ethylbenzene	11.73	91	7401597	98.726	ug/L	99
54) m,p-Xylene	11.84	106	2778940	101.292	ug/L	99
55) o-xylene	12.16	106	2705136	105.839	ug/L	95
56) Styrene	12.18	104	4623666	106.235	ug/L	98
57) Isopropylbenzene	12.46	105	7092633	102.619	ug/L	98
58) 1,1,2,2-Tetrachloroethane	12.71	83	1476559	91.134	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	1099559	88.647	ug/L	100
62) Bromoform	12.35	173	740797	97.667	ug/L	100
63) 1,3-Dichlorobenzene	13.50	146	3064506	99.572	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	3005633	96.885	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	2777086	99.111	ug/L	100
66) 1,2-Dibromo-3-chloropropan	14.48	75	244145	89.271	ug/L	98
67) 1,3,5-Trichlorobenzene	14.63	180	2212201	101.442	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	1862881	109.341	ug/L	99
69) Naphthalene	15.36	128	3966894	114.760	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	1685084	107.025	ug/L	99

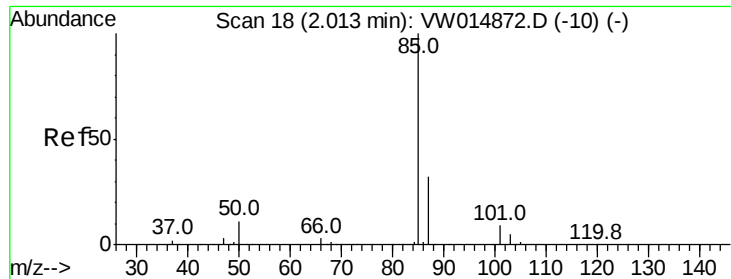
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 87.800 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Instrument :

MSVOA_W

ClientSampleId :

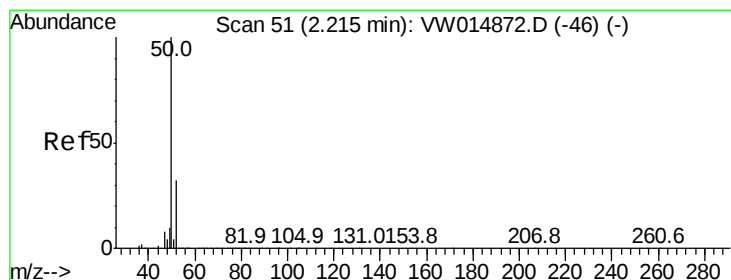
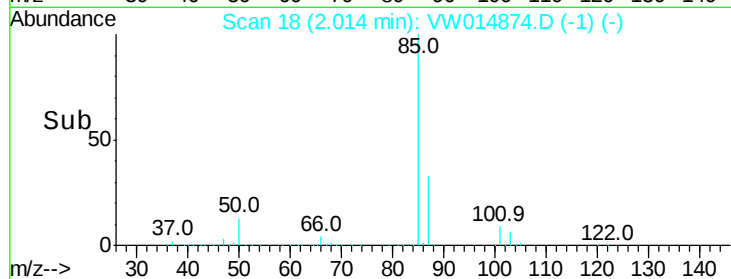
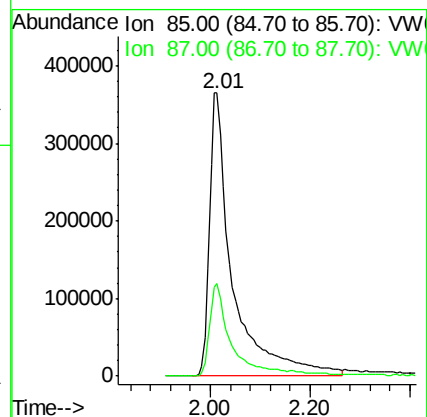
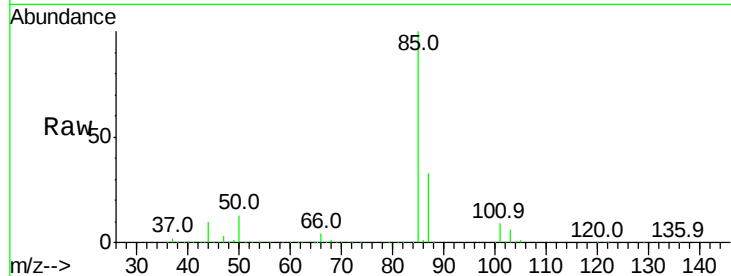
VSTD10004

Tgt Ion: 85 Resp: 1178467

Ion Ratio Lower Upper

85 100

87 29.8 18.1 33.7



#3

Chloromethane

Concen: 91.980 ug/L

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW014874.D

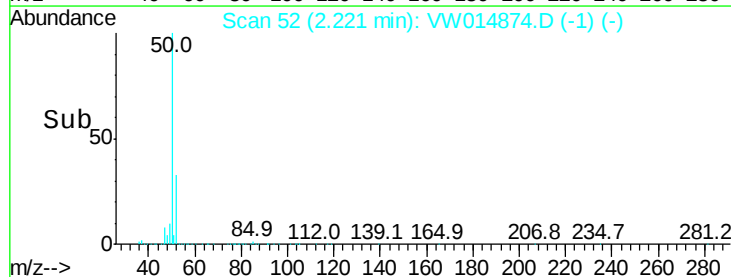
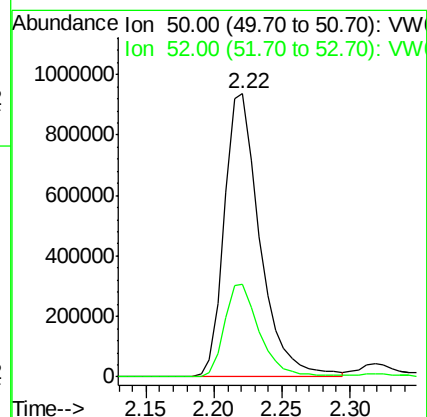
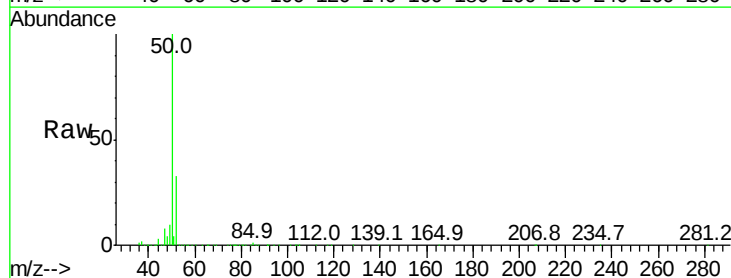
Acq: 05 Feb 2020 15:06

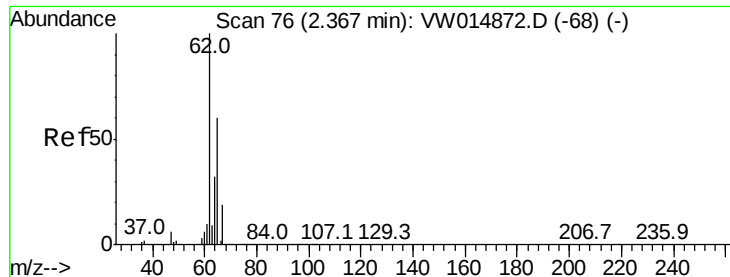
Tgt Ion: 50 Resp: 1692324

Ion Ratio Lower Upper

50 100

52 32.7 22.1 41.1





#5

Vinyl chloride

Concen: 108.000 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Instrument :

MSVOA_W

ClientSampled :

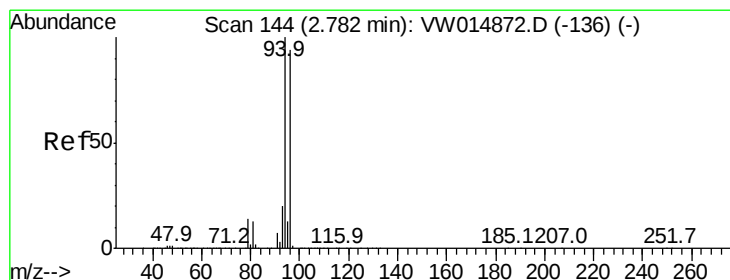
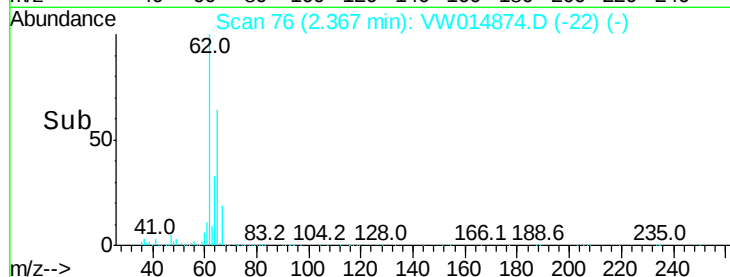
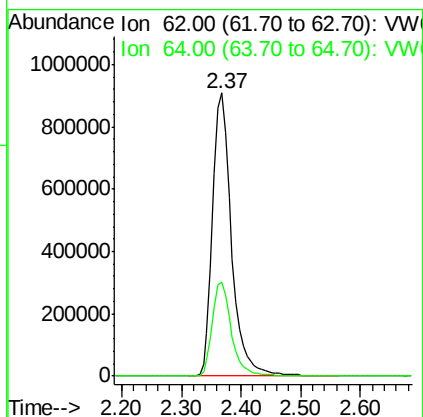
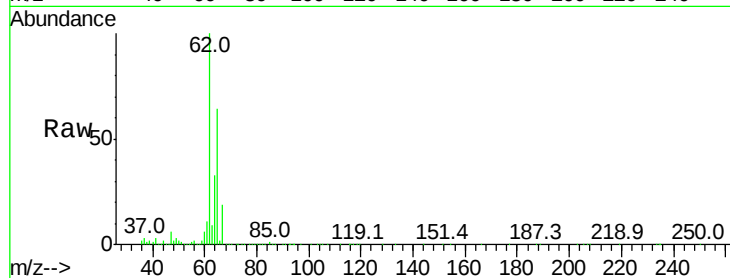
VSTD10004

Tgt Ion: 62 Resp: 1997405

Ion Ratio Lower Upper

62 100

64 33.2 22.5 41.9



#6

Bromomethane

Concen: 95.117 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW014874.D

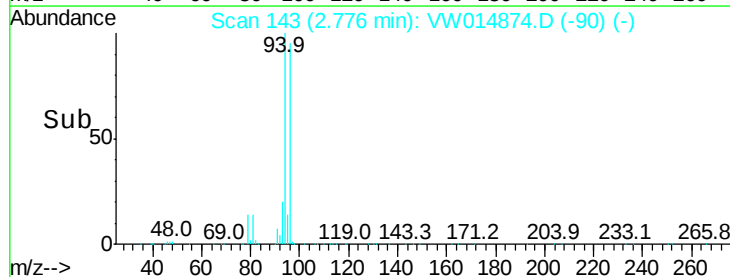
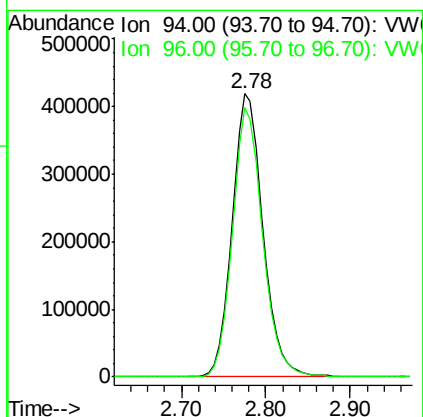
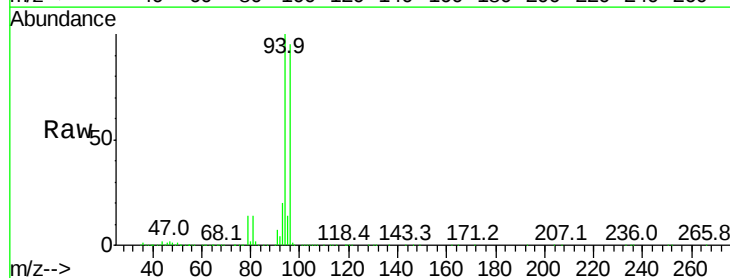
Acq: 05 Feb 2020 15:06

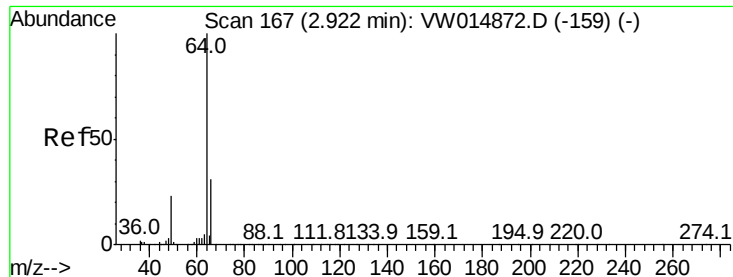
Tgt Ion: 94 Resp: 1029458

Ion Ratio Lower Upper

94 100

96 93.7 9.4 178.0





#8

Chloroethane

Concen: 93.936 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Instrument :

MSVOA_W

ClientSampleId :

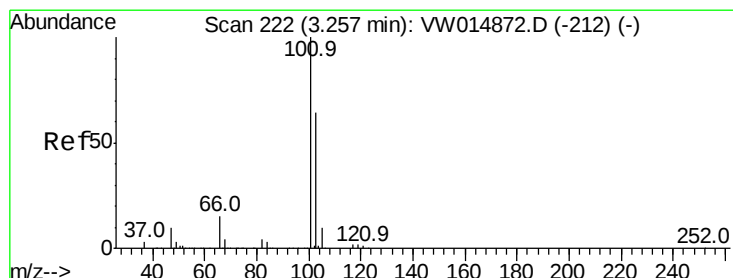
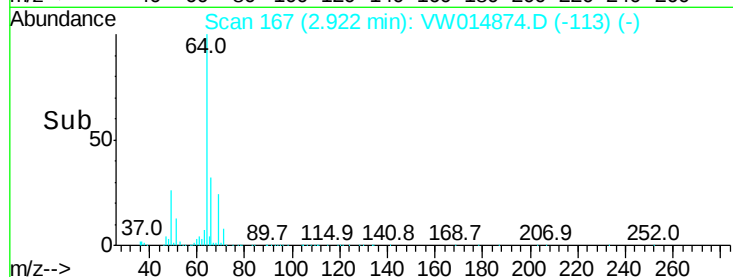
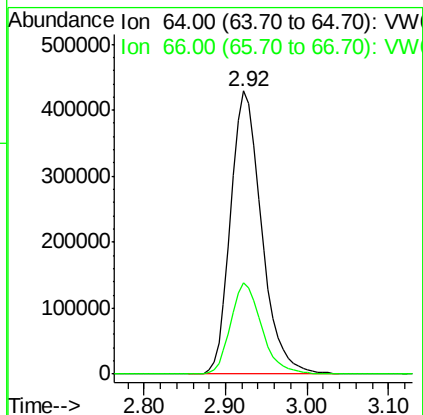
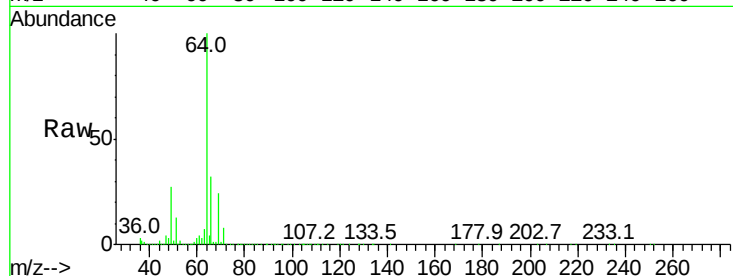
VSTD10004

Tgt Ion: 64 Resp: 1127990

Ion Ratio Lower Upper

64 100

66 32.3 21.9 40.7



#9

Trichlorofluoromethane

Concen: 82.962 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.01 min

Lab File: VW014874.D

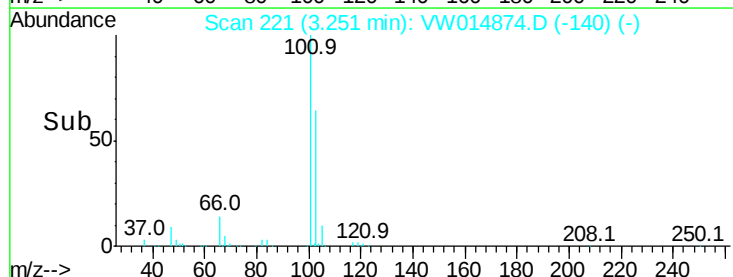
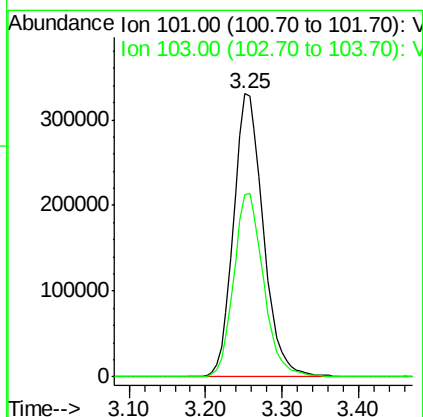
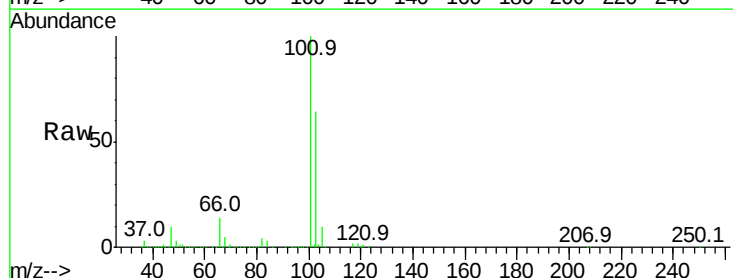
Acq: 05 Feb 2020 15:06

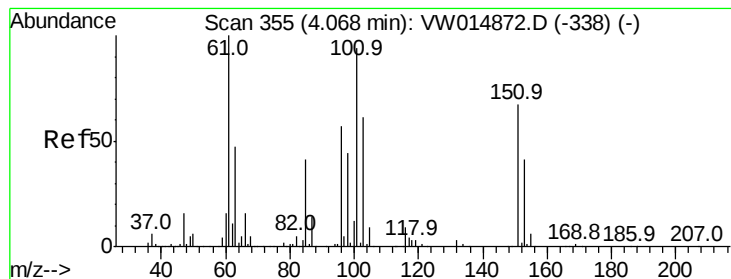
Tgt Ion: 101 Resp: 893284

Ion Ratio Lower Upper

101 100

103 64.7 45.8 85.0





#11

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

Concen: 89.169 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Instrument :

MSVOA_W

ClientSampleId :

VSTD10004

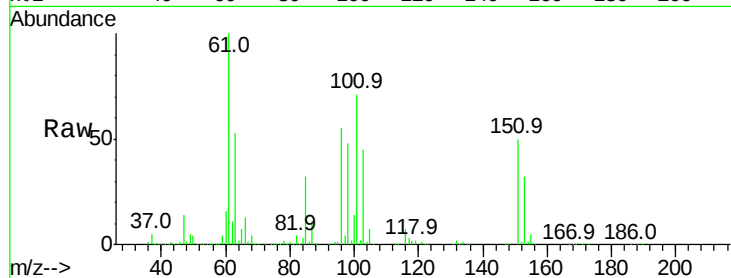
Tgt Ion:101 Resp: 1471611

Ion Ratio Lower Upper

101 100

85 43.7 34.8 52.2

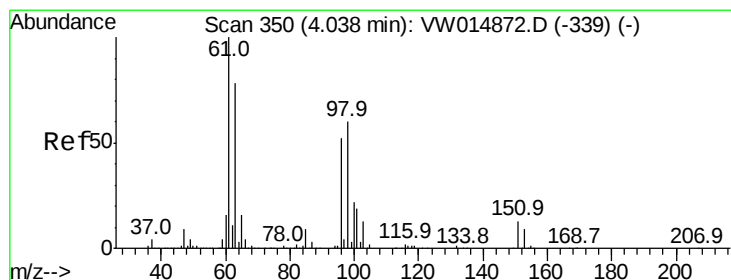
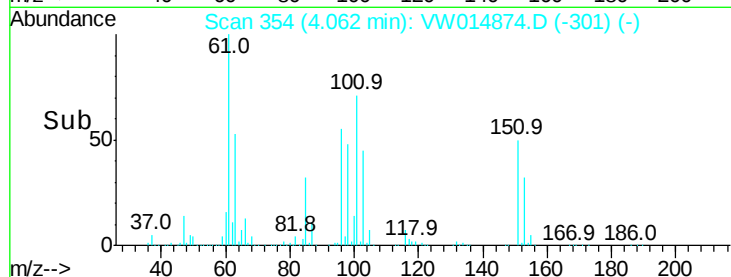
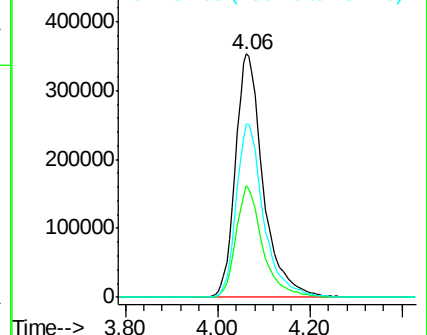
151 69.7 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 95.188 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

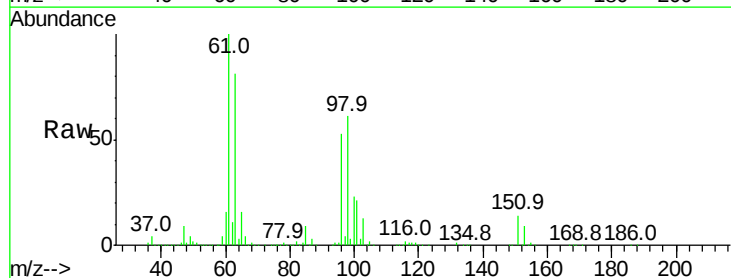
Tgt Ion: 96 Resp: 1481578

Ion Ratio Lower Upper

96 100

61 189.9 134.7 250.1

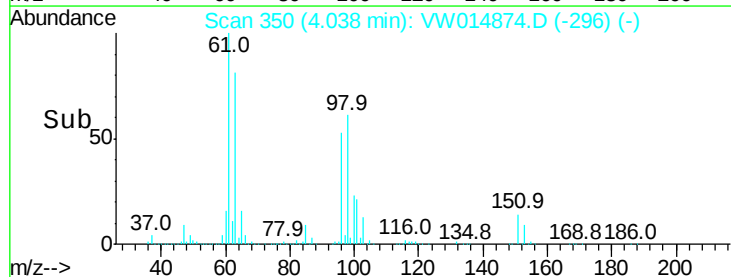
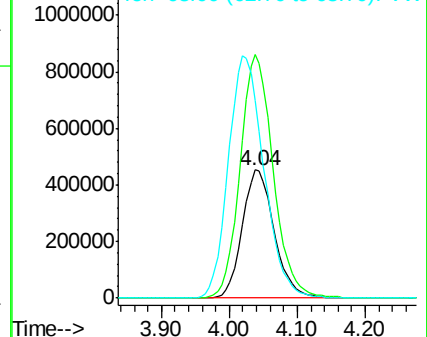
63 153.9 110.2 204.8

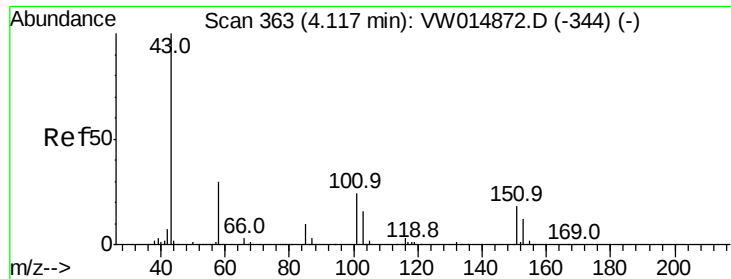


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW

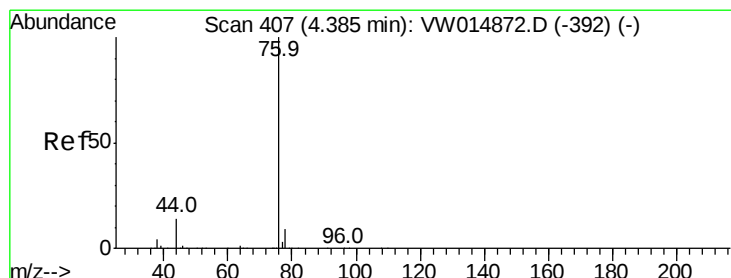
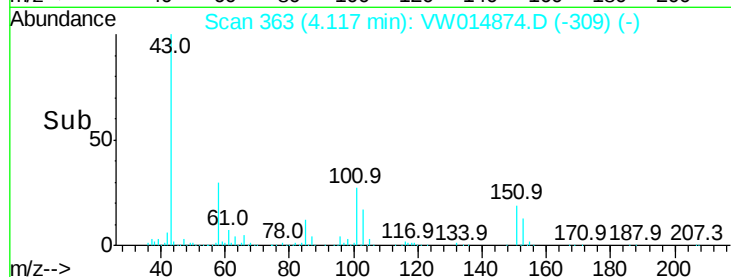
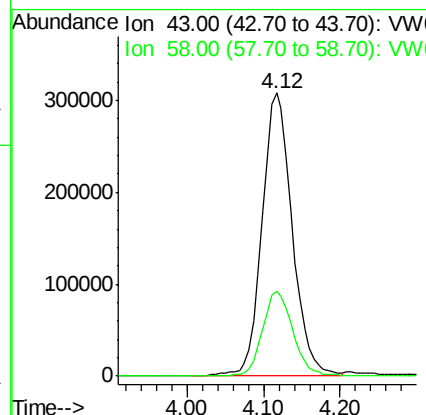
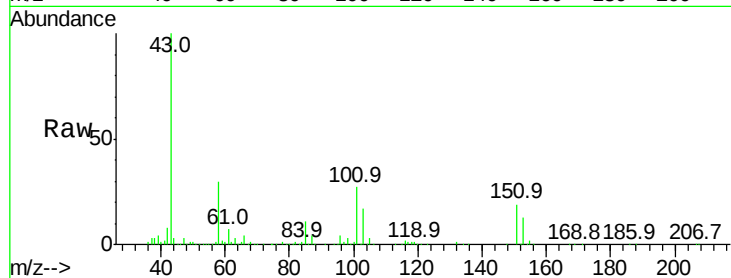




#13
Acetone
Concen: 125.112 ug/L
RT: 4.12 min Scan# 363
Delta R.T. 0.00 min
Lab File: VW014874.D
Acq: 05 Feb 2020 15:06

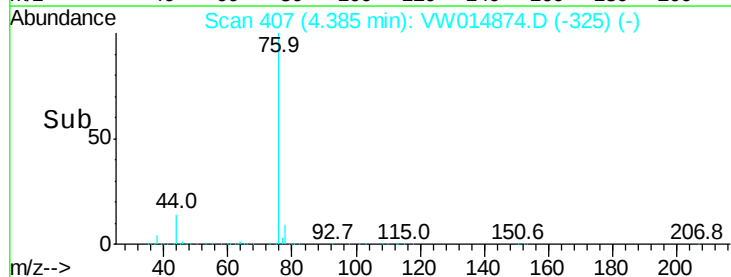
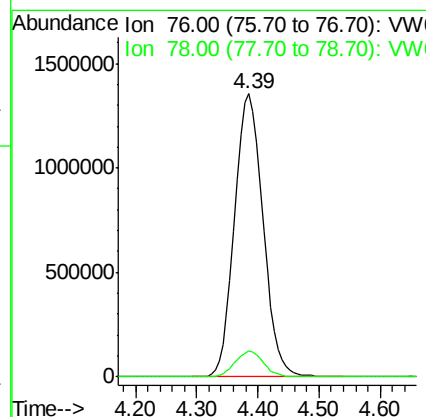
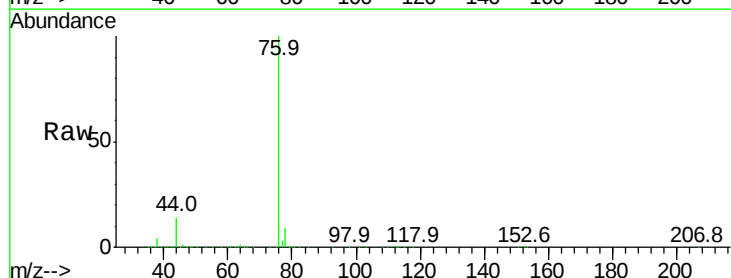
Instrument :
MSVOA_W
ClientSampleId :
VSTD10004

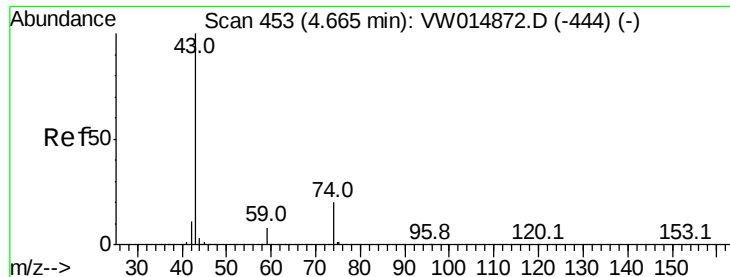
Tgt Ion: 43 Resp: 848903
Ion Ratio Lower Upper
43 100
58 30.2 0.0 60.4



#14
Carbon disulfide
Concen: 92.282 ug/L
RT: 4.39 min Scan# 407
Delta R.T. 0.00 min
Lab File: VW014874.D
Acq: 05 Feb 2020 15:06

Tgt Ion: 76 Resp: 4359596
Ion Ratio Lower Upper
76 100
78 9.0 7.0 10.6

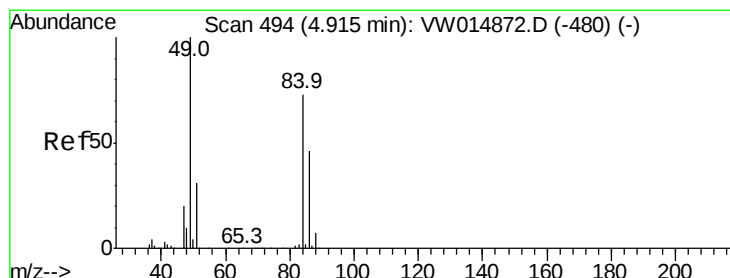
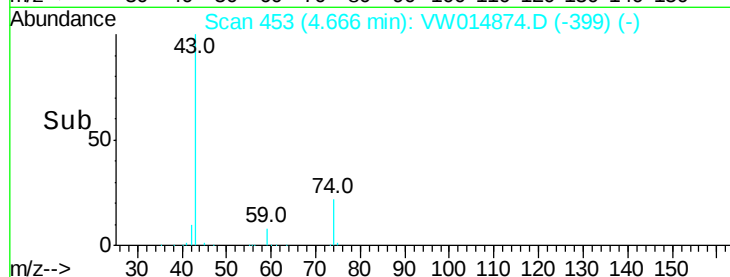
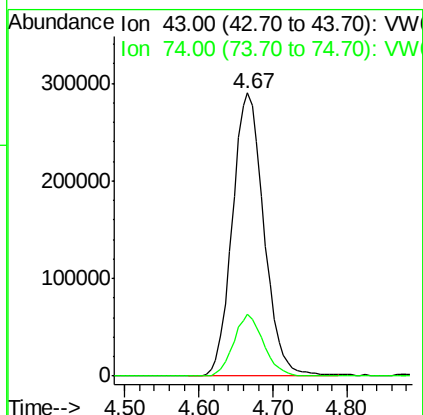
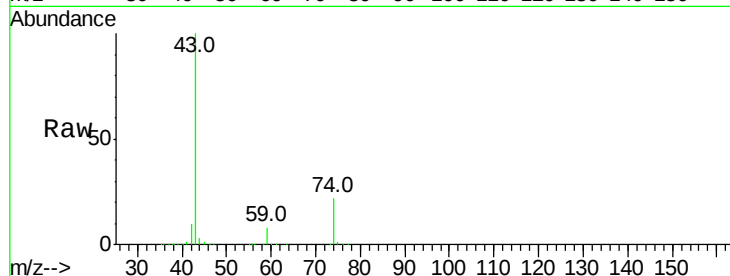




#15
Methyl Acetate
Concen: 84.524 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW014874.D
Acq: 05 Feb 2020 15:06

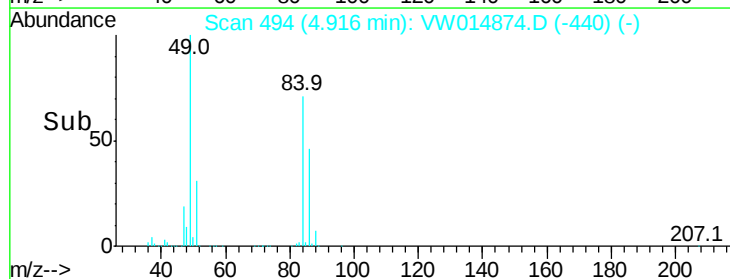
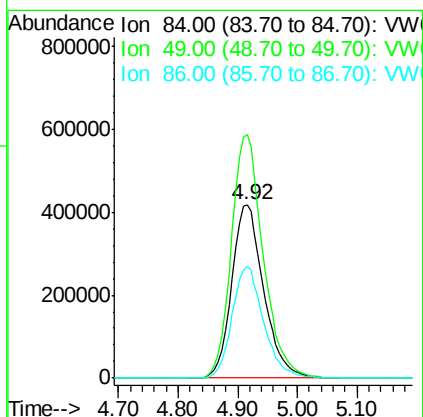
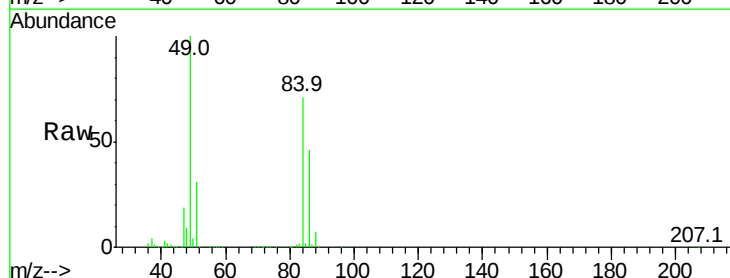
Instrument :
MSVOA_W
ClientSampleId :
VSTD10004

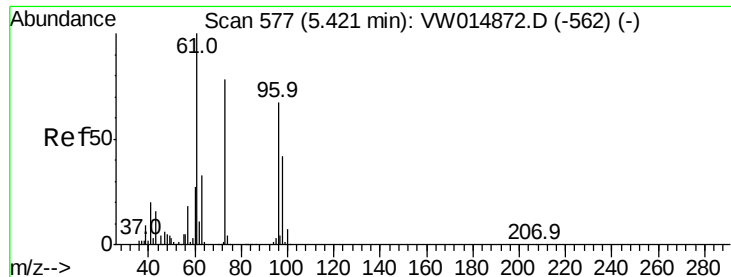
Tgt Ion: 43 Resp: 858321
Ion Ratio Lower Upper
43 100
74 20.9 16.5 24.7



#16
Methylene chloride
Concen: 79.003 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW014874.D
Acq: 05 Feb 2020 15:06

Tgt Ion: 84 Resp: 1554798
Ion Ratio Lower Upper
84 100
49 140.3 95.8 177.8
86 64.6 44.2 82.2

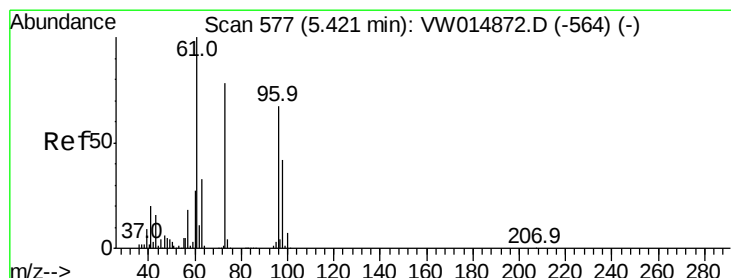
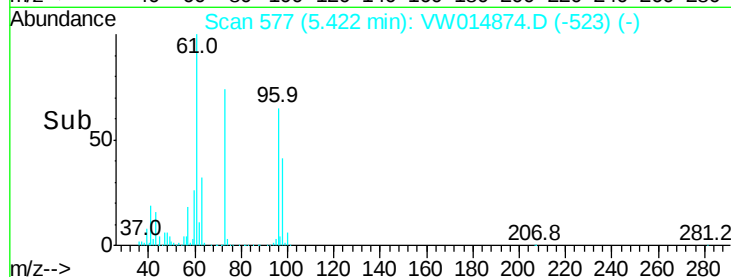
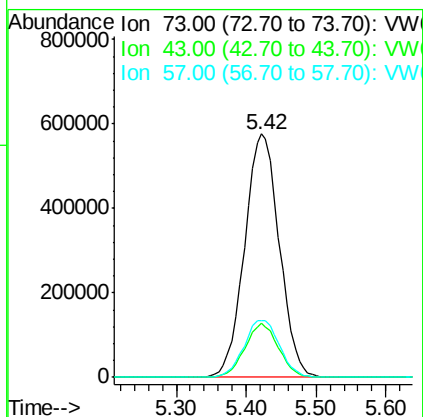
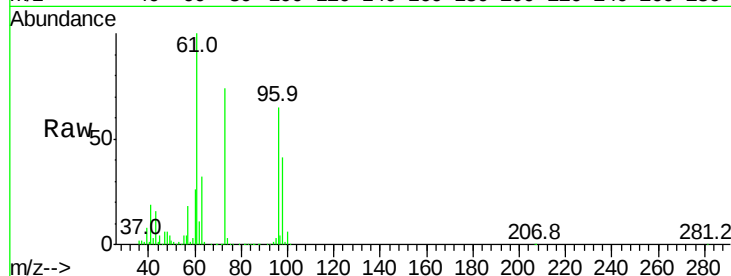




#17
Methyl tert-butyl Ether
Concen: 100.267 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW014874.D
Acq: 05 Feb 2020 15:06

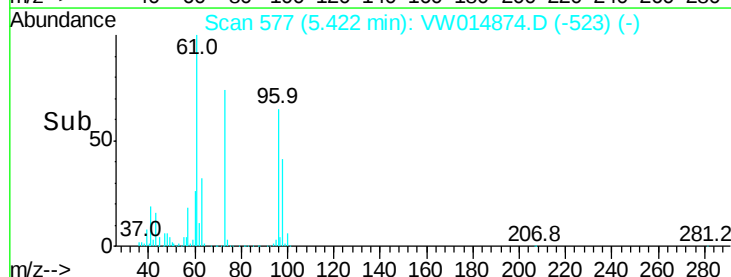
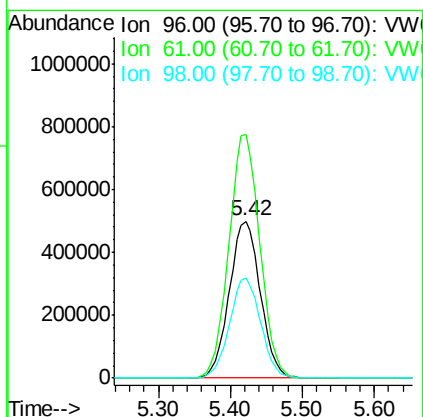
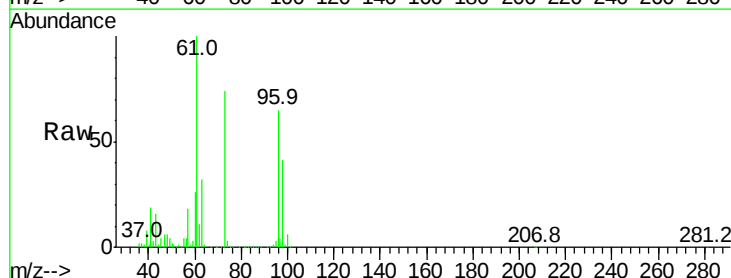
Instrument :
MSVOA_W
ClientSampleId :
VSTD10004

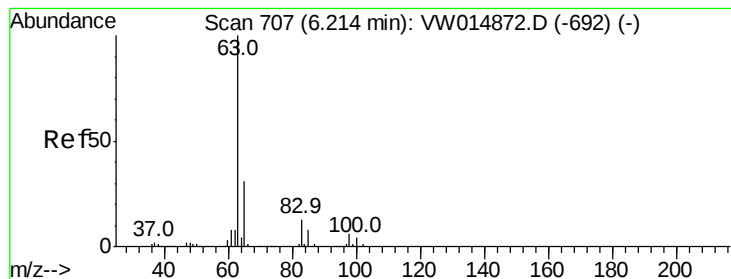
Tgt Ion: 73 Resp: 1980598
Ion Ratio Lower Upper
73 100
43 21.5 17.5 26.3
57 24.0 19.4 29.0



#18
trans-1,2-Dichloroethene
Concen: 93.641 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW014874.D
Acq: 05 Feb 2020 15:06

Tgt Ion: 96 Resp: 1495724
Ion Ratio Lower Upper
96 100
61 154.9 104.4 194.0
98 63.9 43.8 81.3





#19

1,1-Dichloroethane

Concen: 93.399 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Instrument :

MSVOA_W

ClientSampled :

VSTD10004

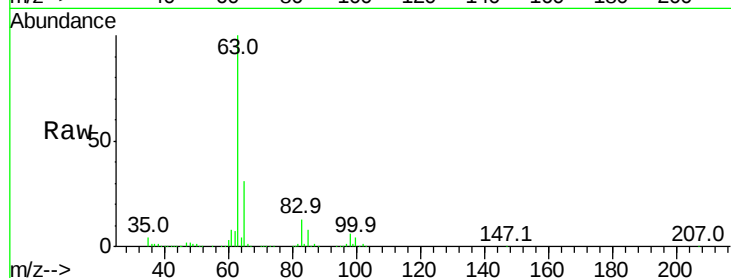
Tgt Ion: 63 Resp: 3029311

Ion Ratio Lower Upper

63 100

65 31.3 21.5 39.9

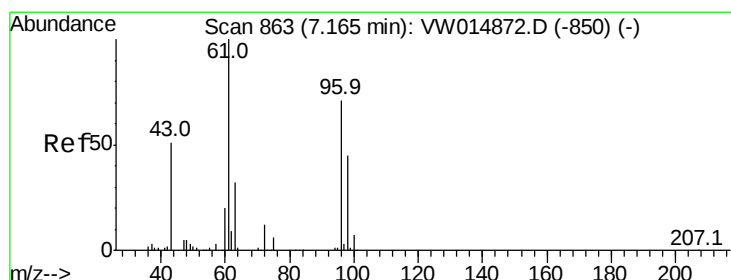
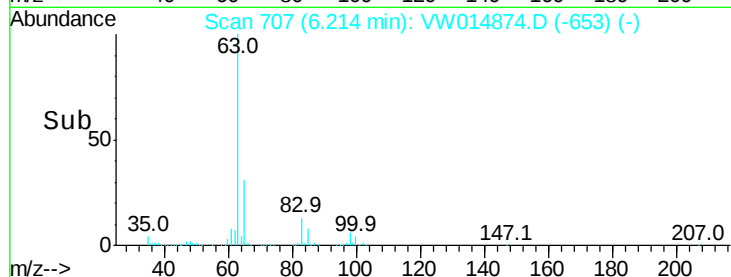
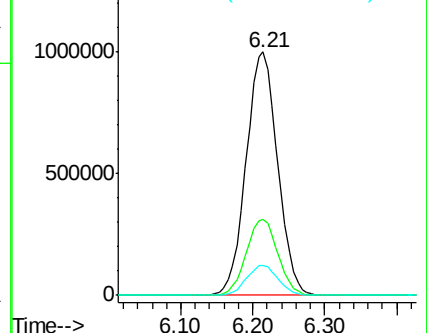
83 12.5 8.8 16.3



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 162.196 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW014874.D

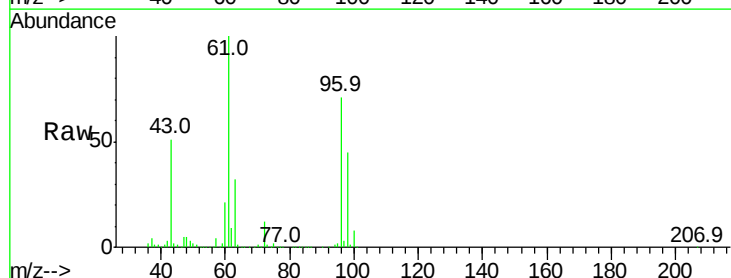
Acq: 05 Feb 2020 15:06

Tgt Ion: 43 Resp: 1180991

Ion Ratio Lower Upper

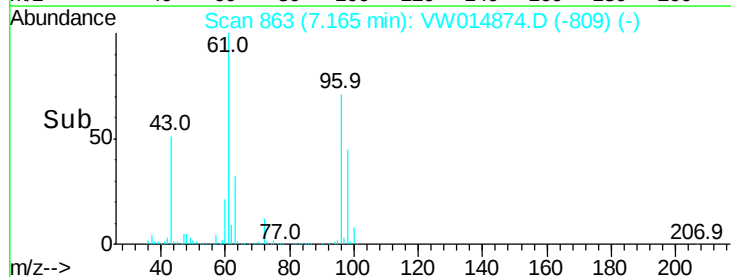
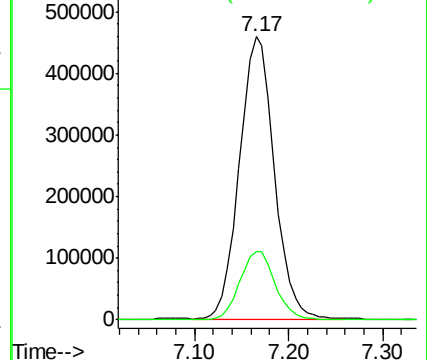
43 100

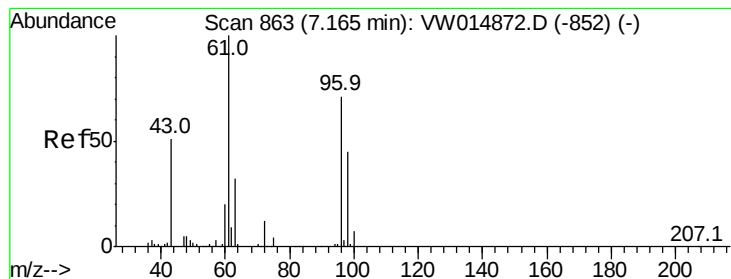
72 24.7 11.9 35.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#22

cis-1,2-Dichloroethene

Concen: 100.944 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Instrument :

MSVOA_W

ClientSampleId :

VSTD10004

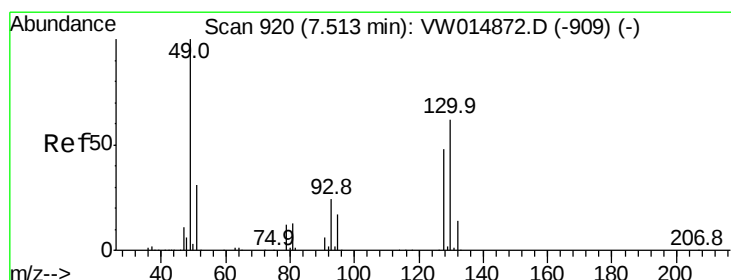
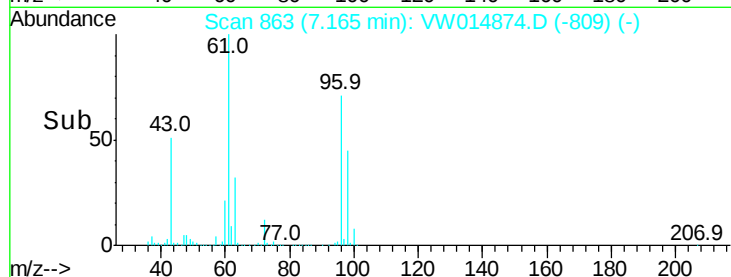
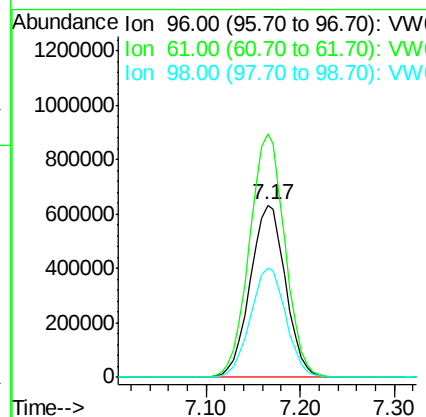
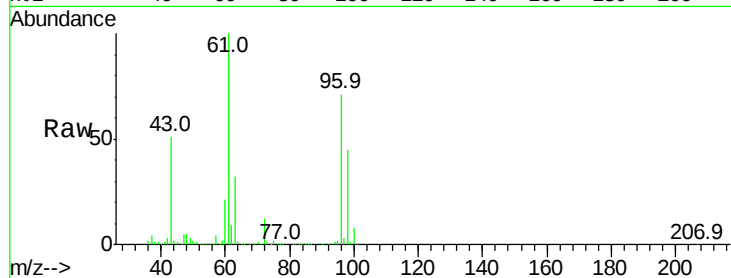
Tgt Ion: 96 Resp: 1666563

Ion Ratio Lower Upper

96 100

61 141.3 98.6 183.0

98 63.7 44.2 82.2



#23

Bromochloromethane

Concen: 93.594 ug/L

RT: 7.51 min Scan# 920

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Tgt Ion: 128 Resp: 660772

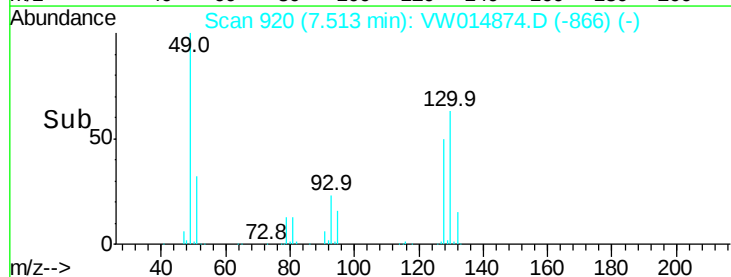
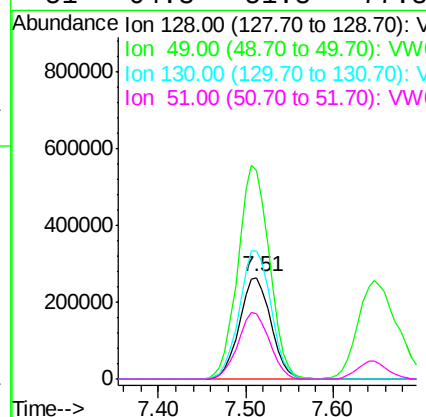
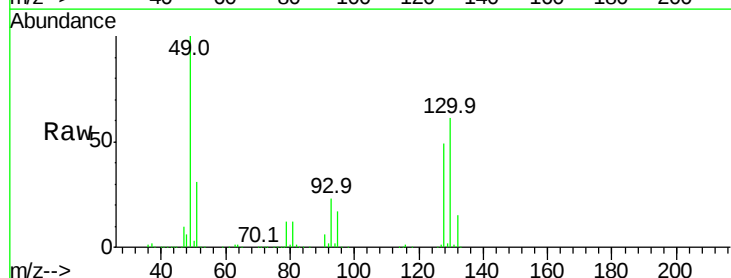
Ion Ratio Lower Upper

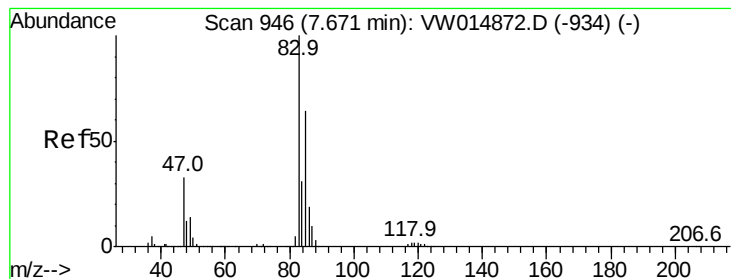
128 100

49 205.6 146.0 271.2

130 125.5 90.9 168.9

51 64.3 51.8 77.8





#25

Chloroform

Concen: 93.530 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Instrument :

MSVOA_W

ClientSampleId :

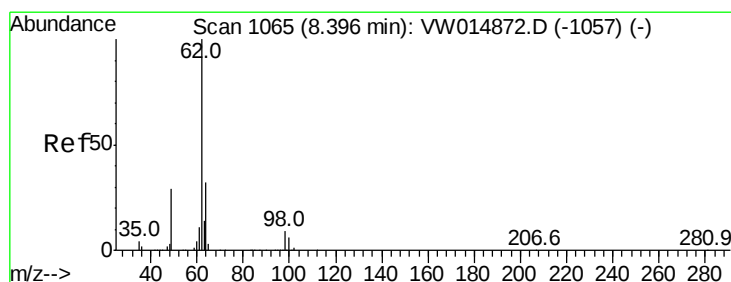
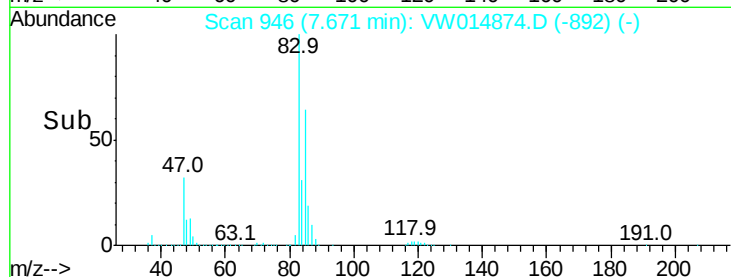
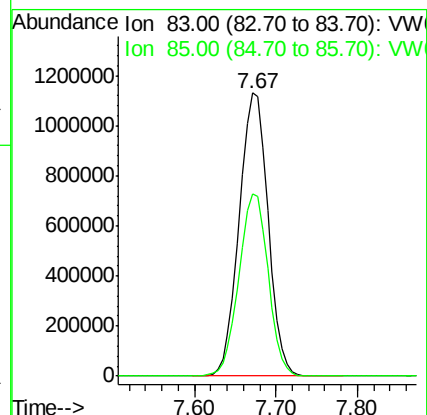
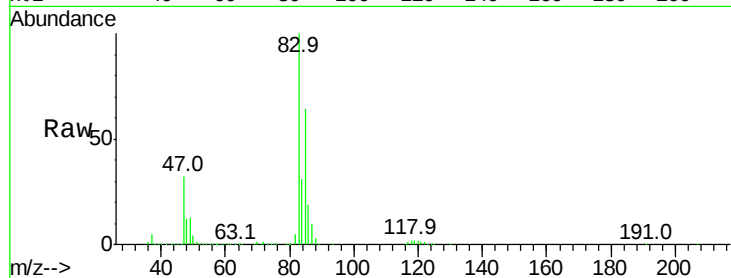
VSTD10004

Tgt Ion: 83 Resp: 2769482

Ion Ratio Lower Upper

83 100

85 65.3 45.4 84.4



#27

1,2-Dichloroethane

Concen: 91.074 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW014874.D

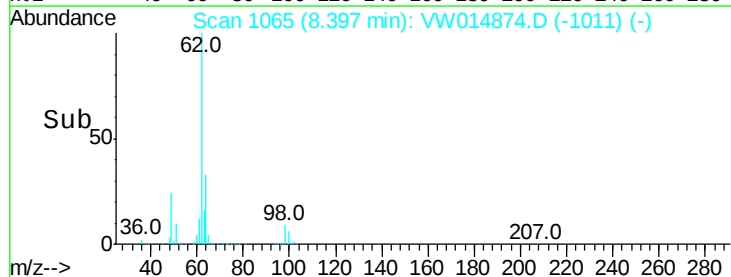
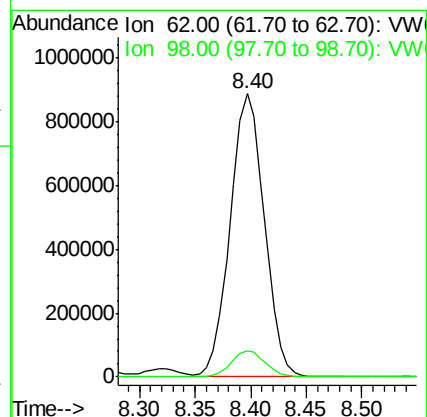
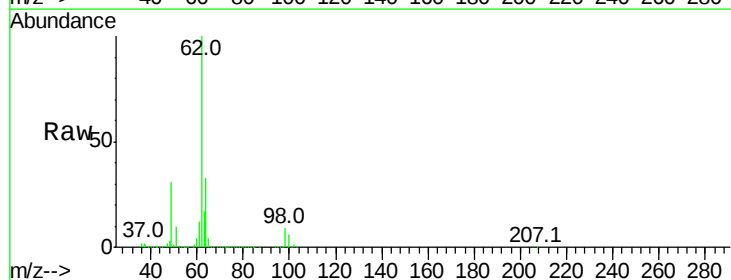
Acq: 05 Feb 2020 15:06

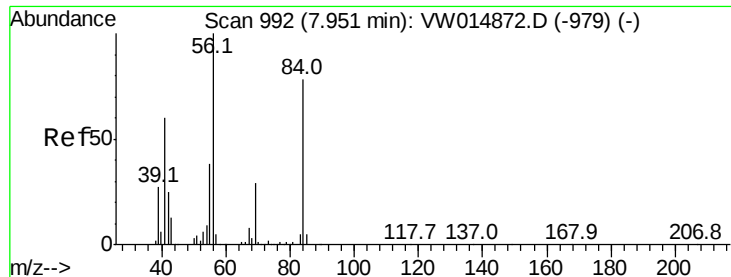
Tgt Ion: 62 Resp: 1884096

Ion Ratio Lower Upper

62 100

98 9.3 7.2 10.8

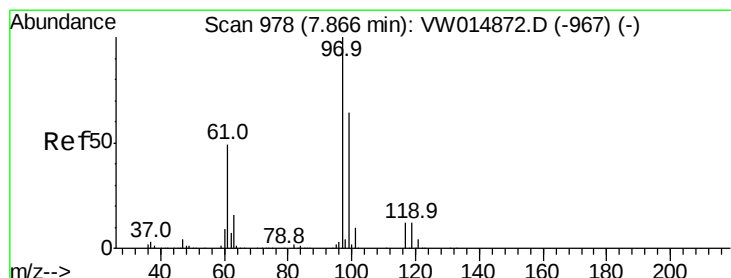
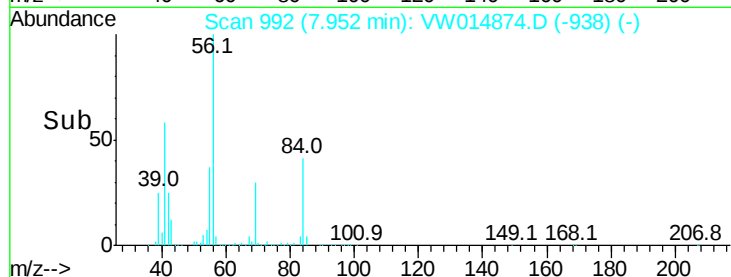
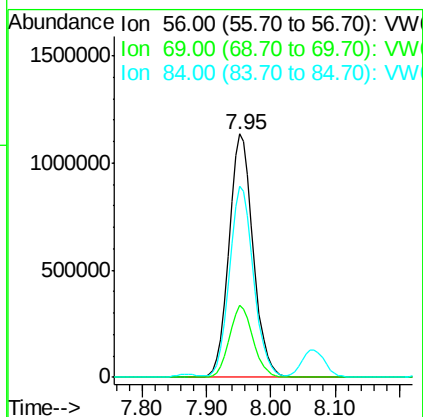
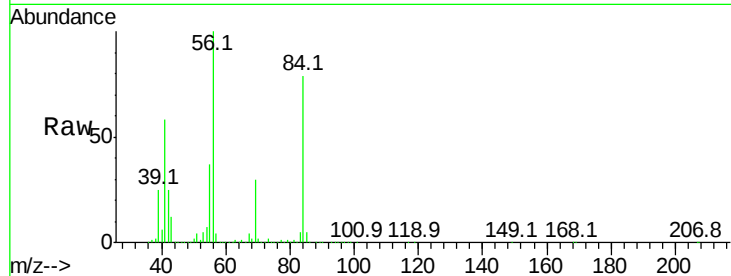




#30
Cyclohexane
Concen: 99.998 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW014874.D
Acq: 05 Feb 2020 15:06

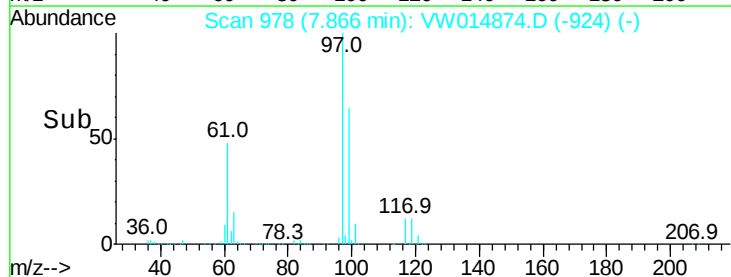
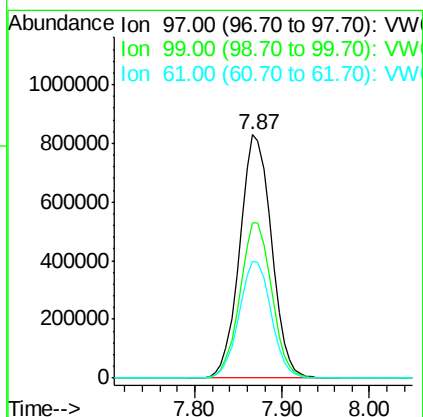
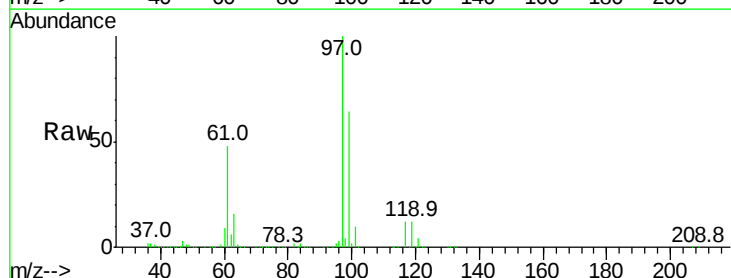
Instrument :
MSVOA_W
ClientSampled :
VSTD10004

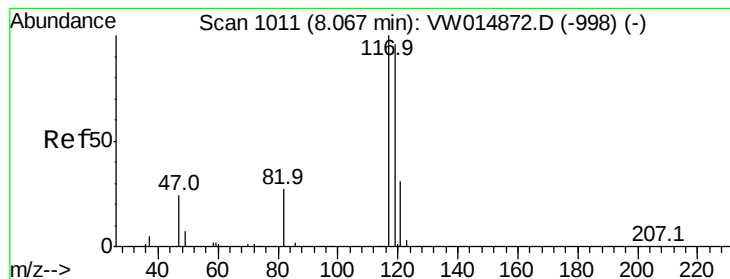
Tgt Ion: 56 Resp: 2984958
Ion Ratio Lower Upper
56 100
69 28.9 22.9 34.3
84 78.4 63.8 95.6



#31
1,1,1-Trichloroethane
Concen: 90.454 ug/L
RT: 7.87 min Scan# 978
Delta R.T. 0.00 min
Lab File: VW014874.D
Acq: 05 Feb 2020 15:06

Tgt Ion: 97 Resp: 2096467
Ion Ratio Lower Upper
97 100
99 63.8 51.0 76.6
61 48.7 38.9 58.3





#32

Carbon tetrachloride

Concen: 91.727 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Instrument :

MSVOA_W

ClientSampleId :

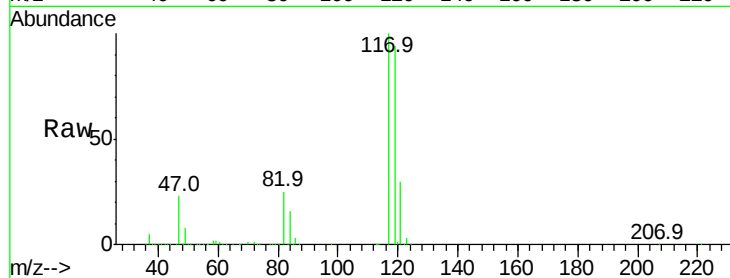
VSTD10004

Tgt Ion:117 Resp: 1931231

Ion Ratio Lower Upper

117 100

119 95.4 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

800000

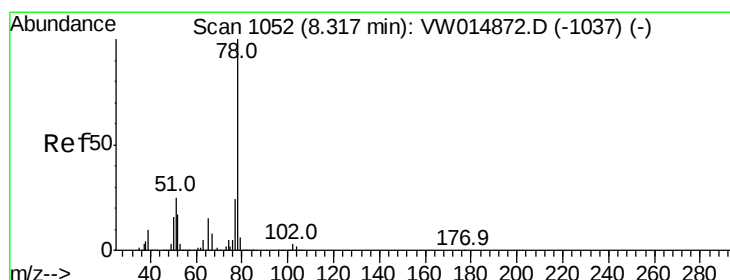
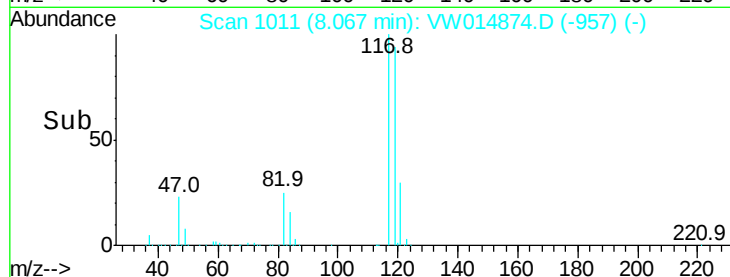
600000

400000

200000

0

Time-->



#34

Benzene

Concen: 91.300 ug/L

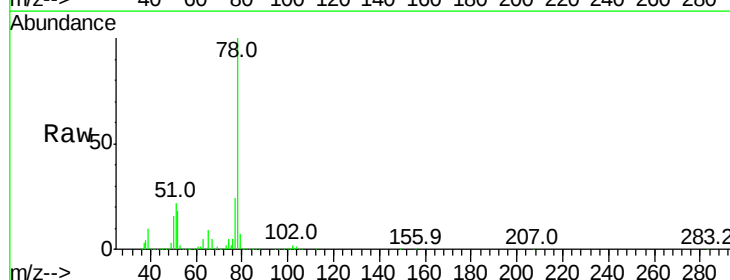
RT: 8.32 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Tgt Ion: 78 Resp: 6314179



Abundance Ion 78.00 (77.70 to 78.70): VW

8.32

3000000

2500000

2000000

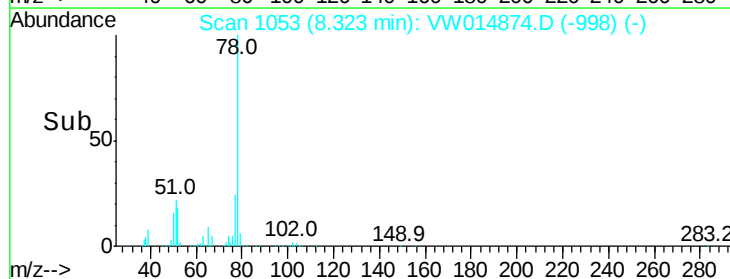
1500000

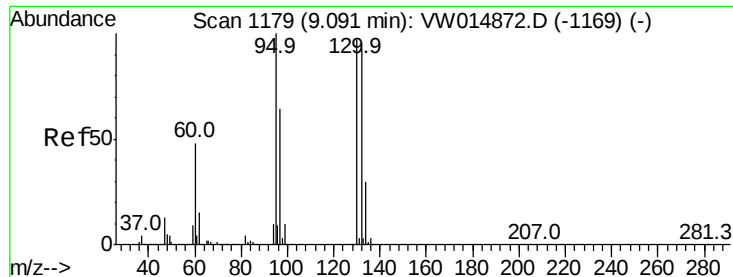
1000000

500000

0

Time-->





#35

Trichloroethene

Concen: 94.179 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Instrument :

MSVOA_W

ClientSampleId :

VSTD10004

Tgt Ion: 95 Resp: 1608523

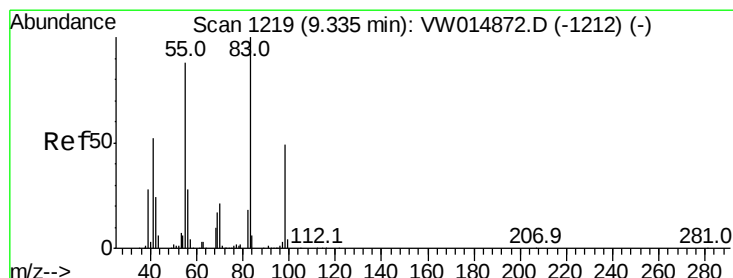
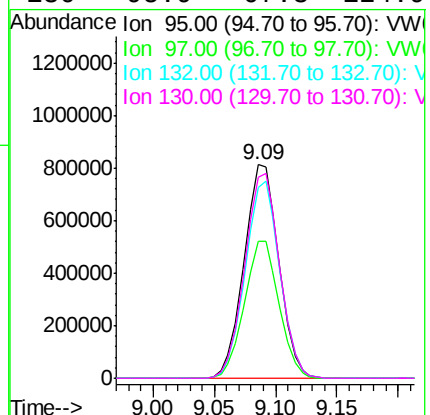
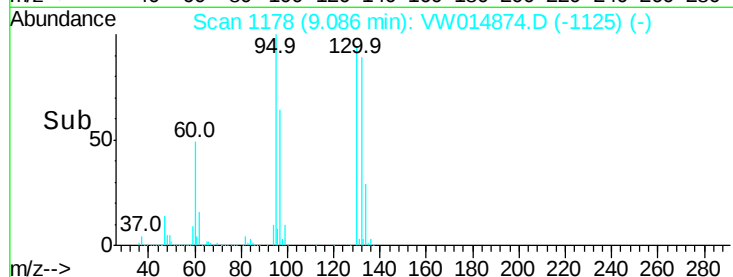
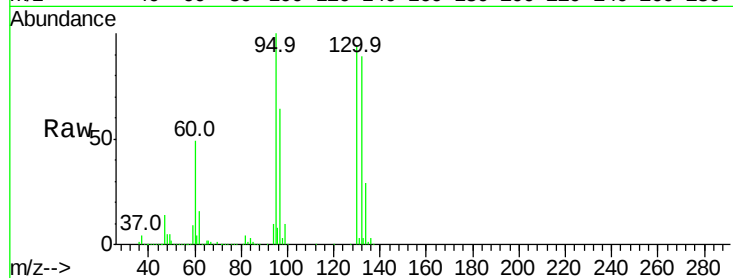
Ion Ratio Lower Upper

95 100

97 63.8 44.4 82.5

132 91.6 63.6 118.0

130 95.9 67.3 124.9



#36

Methylcyclohexane

Concen: 97.563 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

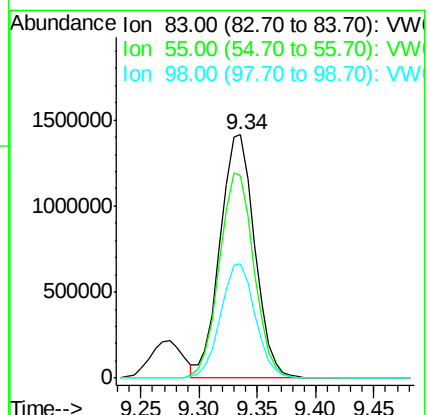
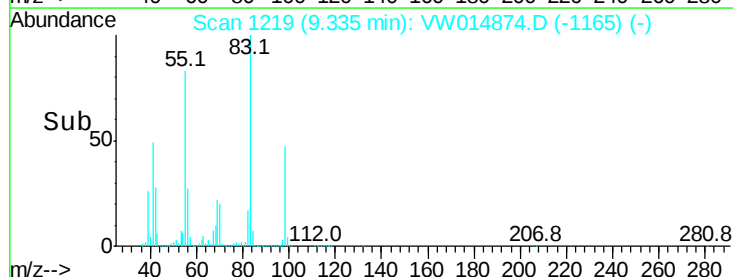
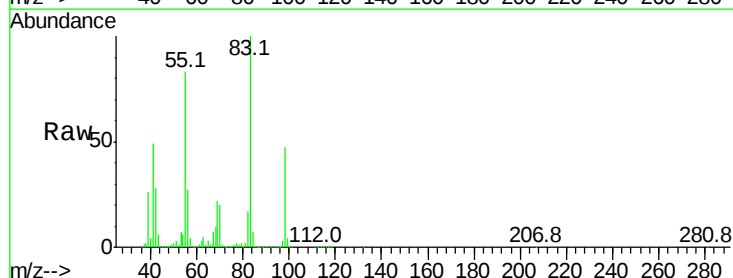
Tgt Ion: 83 Resp: 2918484

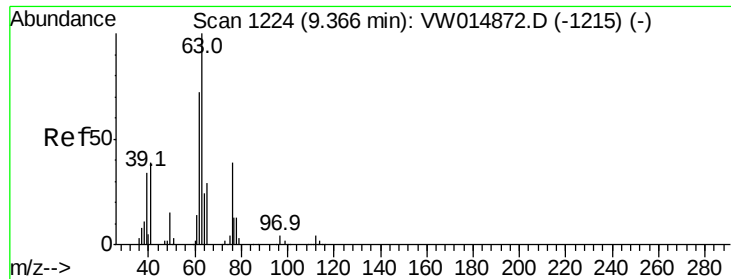
Ion Ratio Lower Upper

83 100

55 83.6 68.0 102.0

98 46.9 37.8 56.6

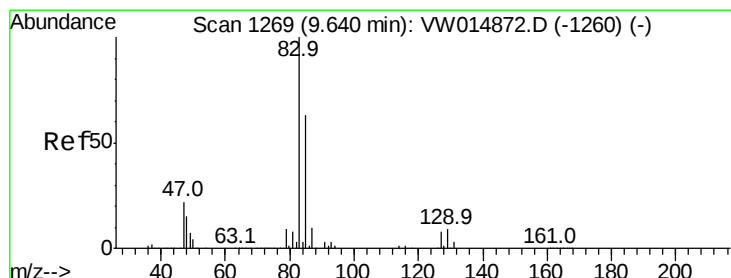
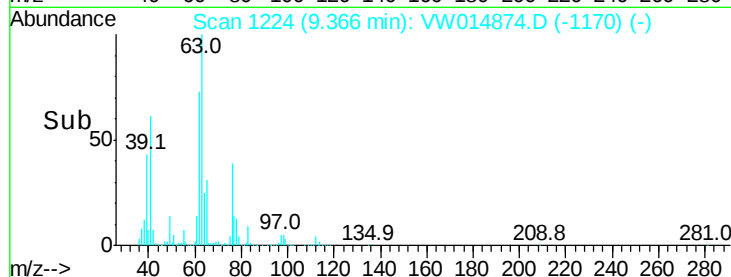
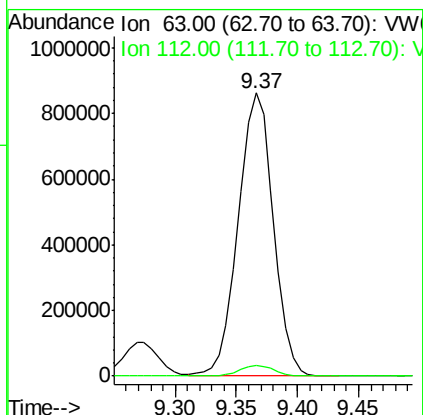
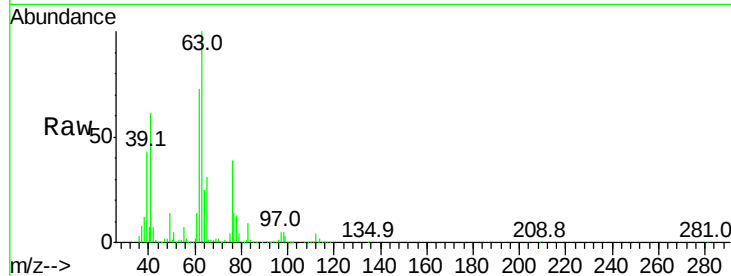




#40
 1,2-Dichloropropane
 Concen: 92.230 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW014874.D
 Acq: 05 Feb 2020 15:06

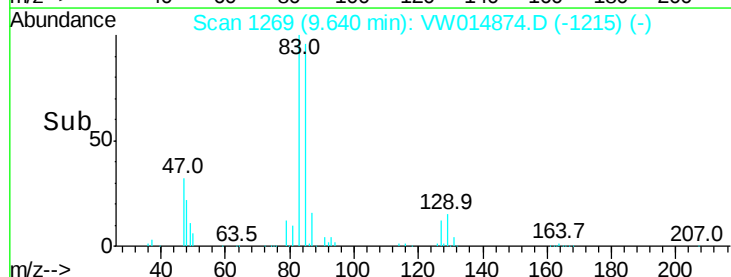
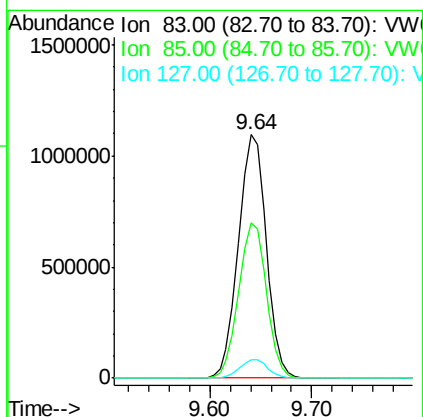
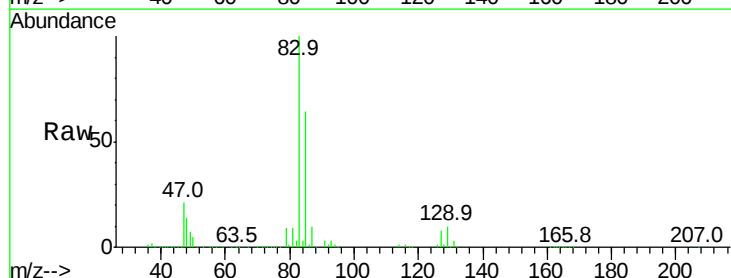
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD10004

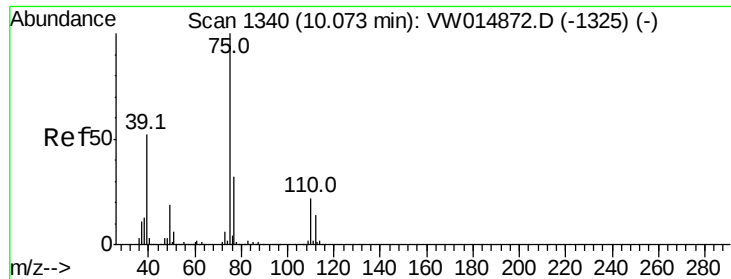
Tgt Ion: 63 Resp: 1720260
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.1 4.7



#41
 Bromodichloromethane
 Concen: 97.038 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW014874.D
 Acq: 05 Feb 2020 15:06

Tgt Ion: 83 Resp: 2073971
 Ion Ratio Lower Upper
 83 100
 85 63.8 44.2 82.0
 127 7.6 6.0 9.0





#42

cis-1,3-Dichloropropene

Concen: 104.746 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. -0.01 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Instrument :

MSVOA_W

ClientSampleId :

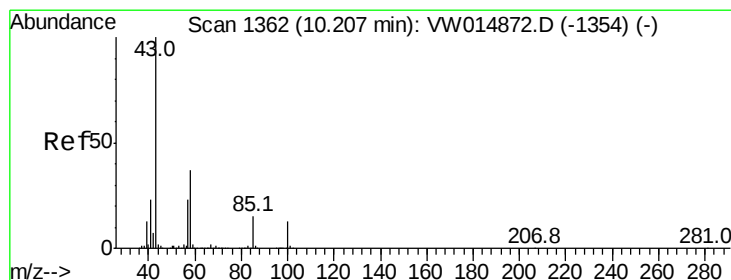
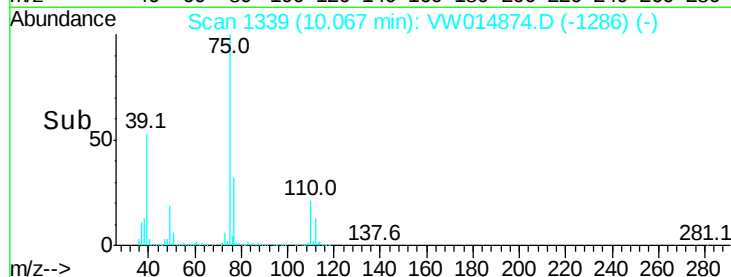
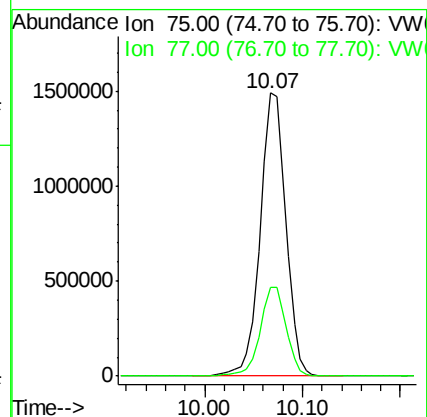
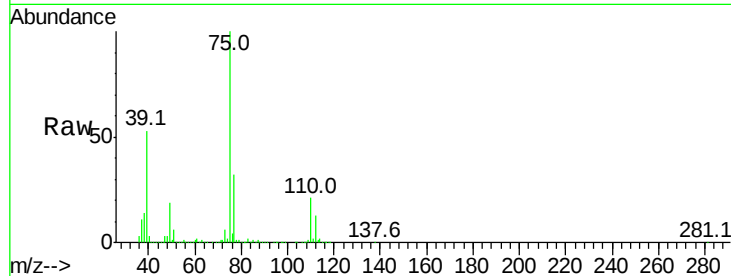
VSTD10004

Tgt Ion: 75 Resp: 2719474

Ion Ratio Lower Upper

75 100

77 31.6 22.5 41.9



#43

4-Methyl-2-pentanone

Concen: 184.828 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

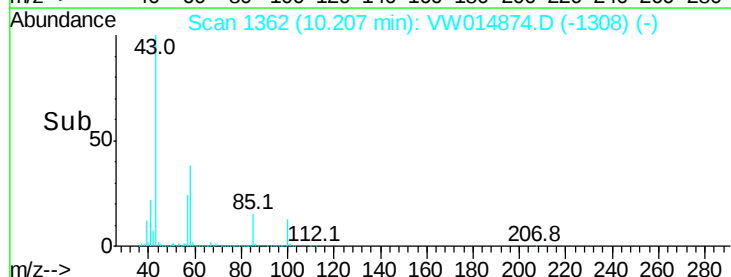
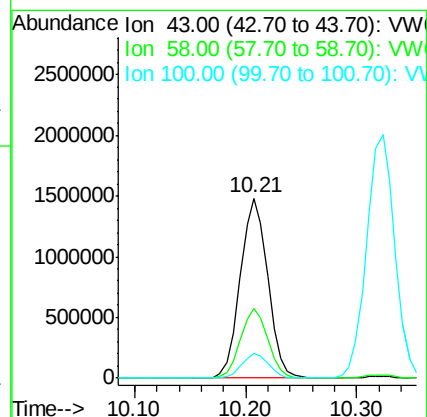
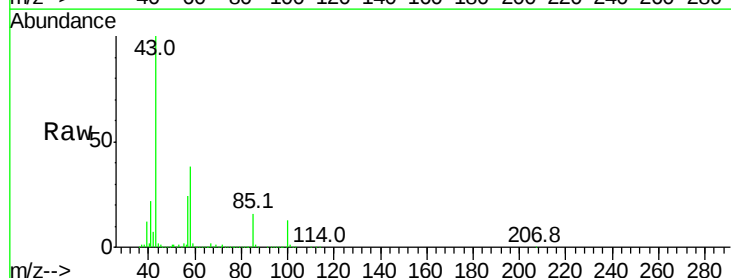
Tgt Ion: 43 Resp: 2531317

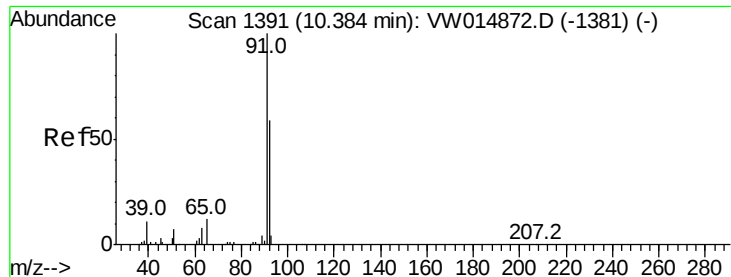
Ion Ratio Lower Upper

43 100

58 38.3 30.0 45.0

100 13.4 10.6 15.8





#44

Toluene

Concen: 95.488 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Instrument :

MSVOA_W

ClientSampleId :

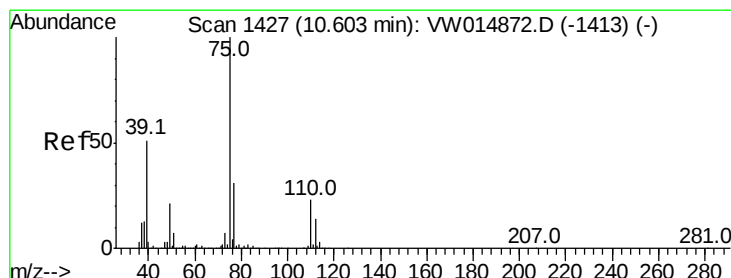
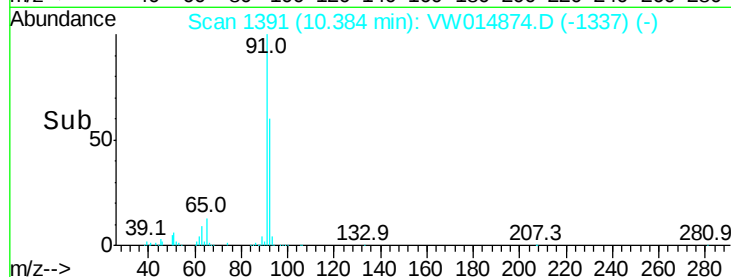
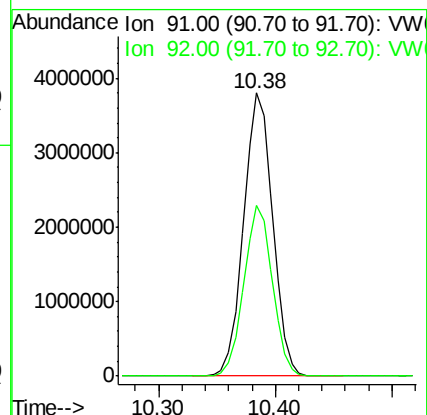
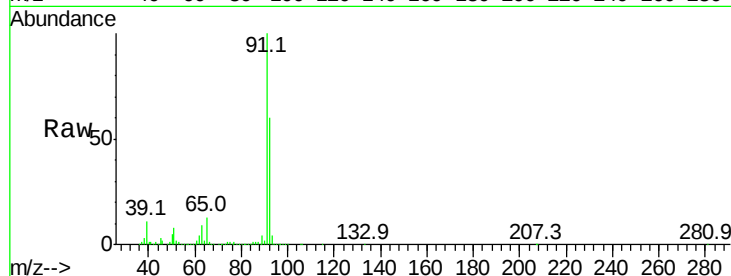
VSTD10004

Tgt Ion: 91 Resp: 6606996

Ion Ratio Lower Upper

91 100

92 60.4 41.4 77.0



#45

trans-1,3-Dichloropropene

Concen: 102.164 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014874.D

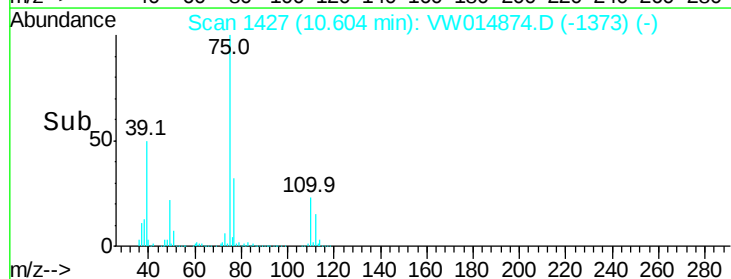
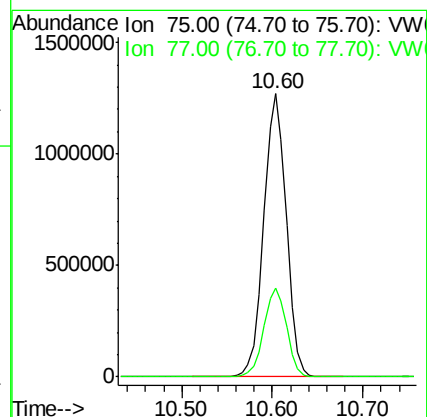
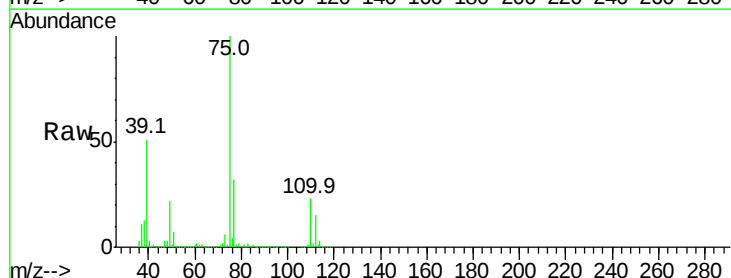
Acq: 05 Feb 2020 15:06

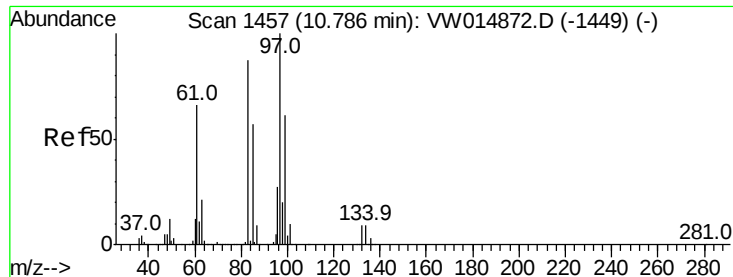
Tgt Ion: 75 Resp: 2182685

Ion Ratio Lower Upper

75 100

77 31.6 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 94.618 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Instrument :

MSVOA_W

ClientSampleId :

VSTD10004

Tgt Ion: 97 Resp: 1167813

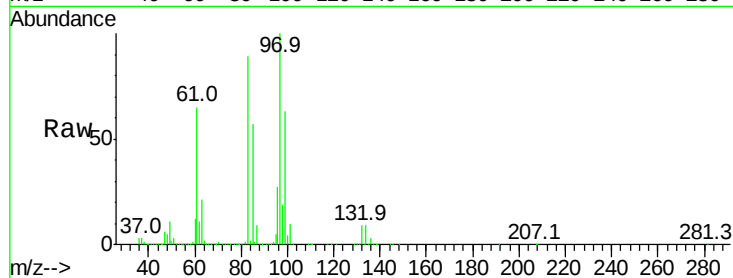
Ion Ratio Lower Upper

97 100

83 88.6 60.8 112.8

85 56.8 39.9 74.1

99 63.4 42.8 79.6



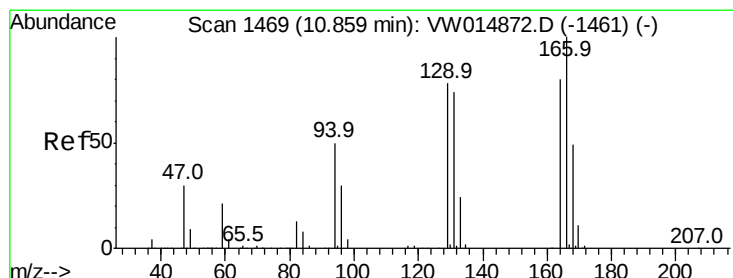
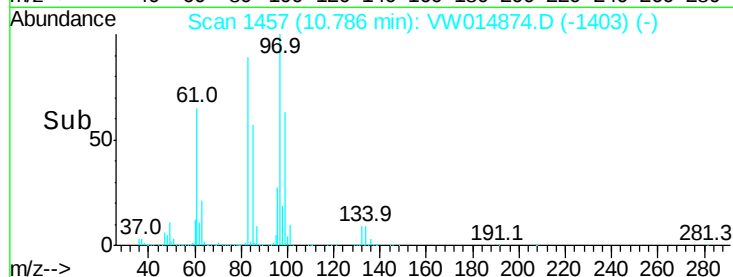
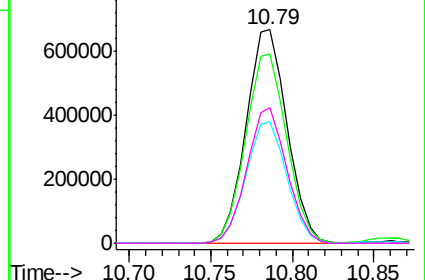
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 91.818 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Tgt Ion: 164 Resp: 1169915

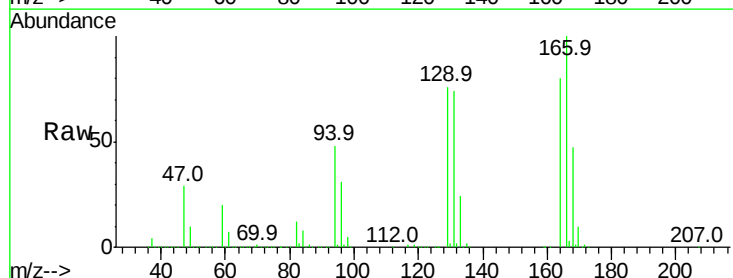
Ion Ratio Lower Upper

164 100

129 95.0 67.5 125.4

131 91.5 64.0 119.0

166 124.4 87.0 161.6



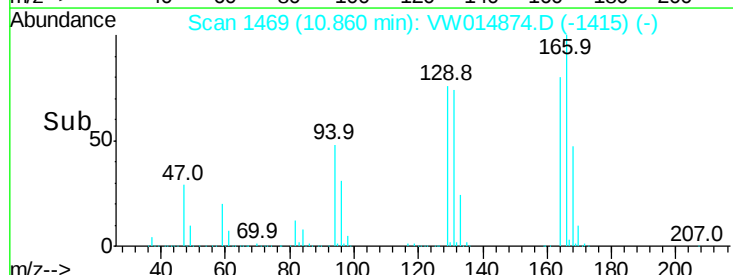
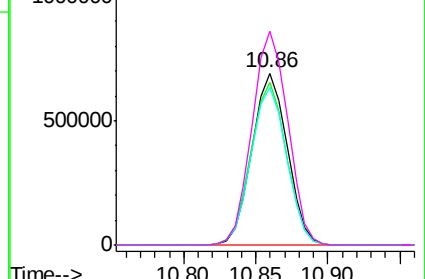
Abundance

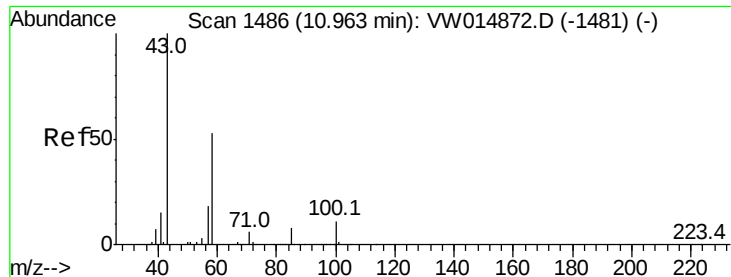
Ion 164.00 (163.70 to 164.70): V

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

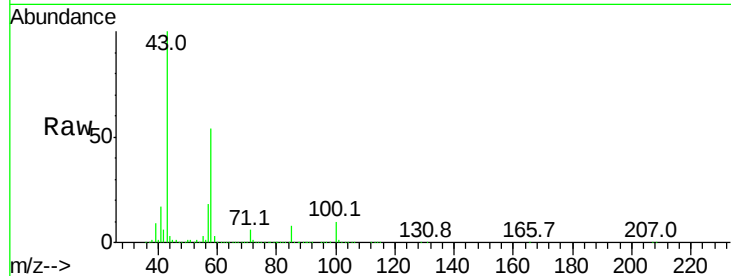




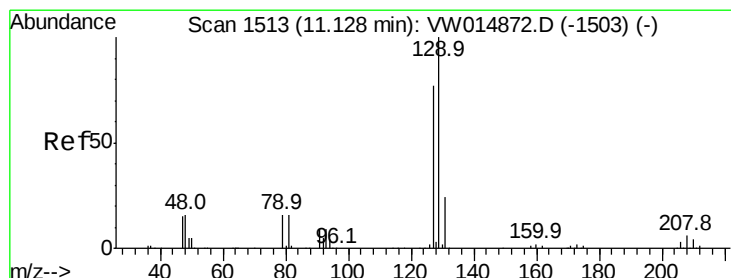
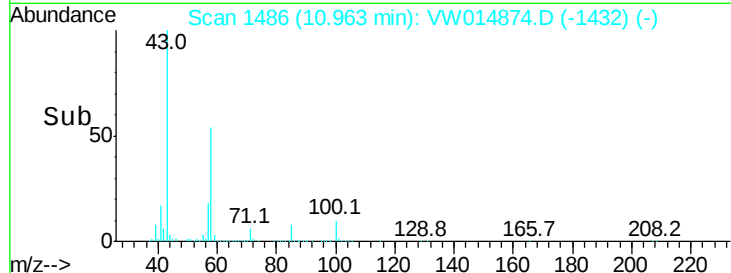
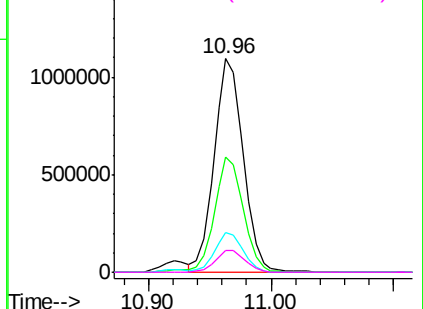
#49
2-Hexanone
Concen: 191.112 ug/L
RT: 10.96 min Scan# 1486
Delta R.T. 0.00 min
Lab File: VW014874.D
Acq: 05 Feb 2020 15:06

Instrument :
MSVOA_W
ClientSampleId :
VSTD10004

Tgt Ion: 43 Resp: 1805960
Ion Ratio Lower Upper
43 100
58 53.1 42.2 63.2
57 18.1 14.5 21.7
100 10.3 8.6 12.8

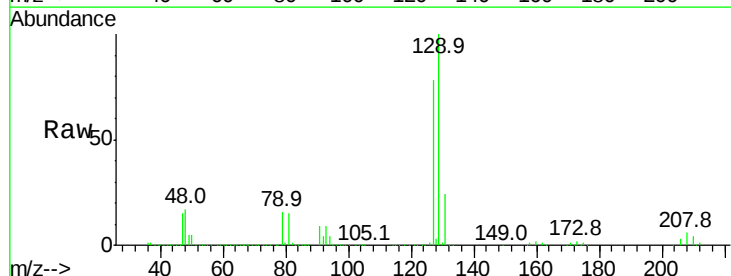


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW
Ion 57.00 (56.70 to 57.70): VW
Ion 100.00 (99.70 to 100.70): VW

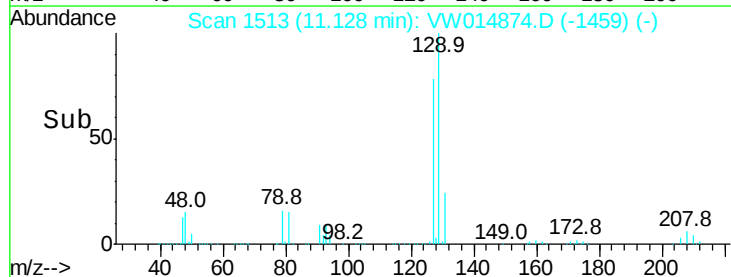
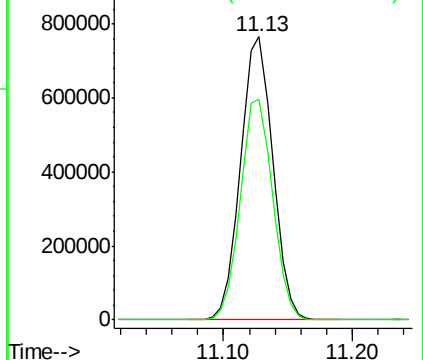


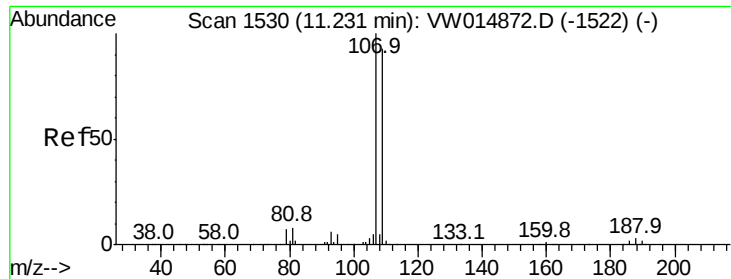
#50
Dibromochloromethane
Concen: 99.829 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW014874.D
Acq: 05 Feb 2020 15:06

Tgt Ion: 129 Resp: 1324642
Ion Ratio Lower Upper
129 100
127 77.7 54.1 100.5



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

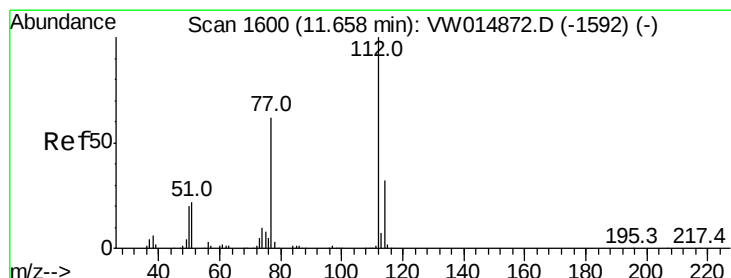
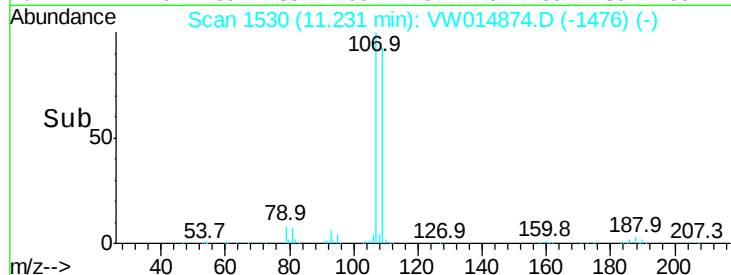
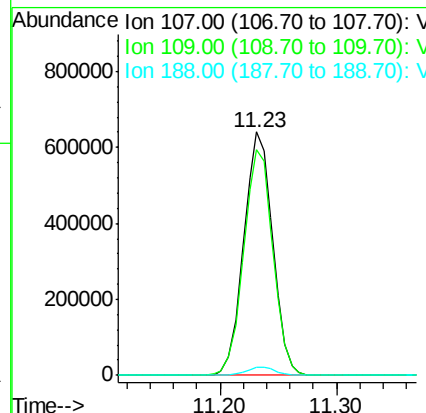
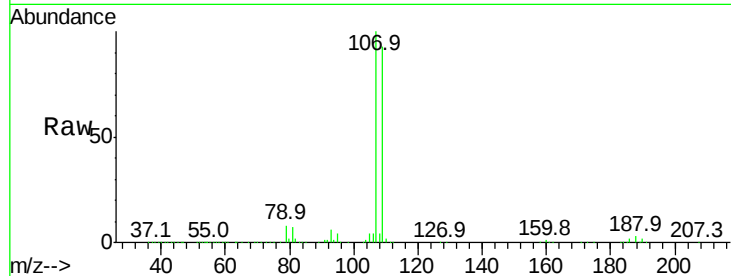




#51
1,2-Dibromoethane
Concen: 95.426 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. 0.00 min
Lab File: VW014874.D
Acq: 05 Feb 2020 15:06

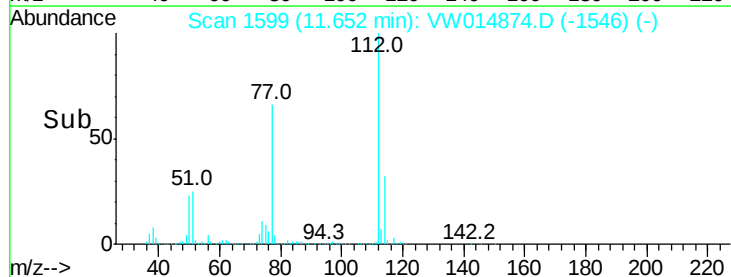
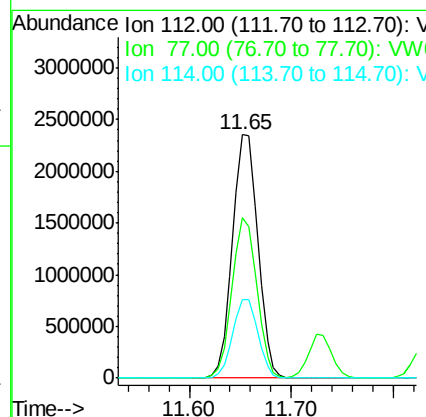
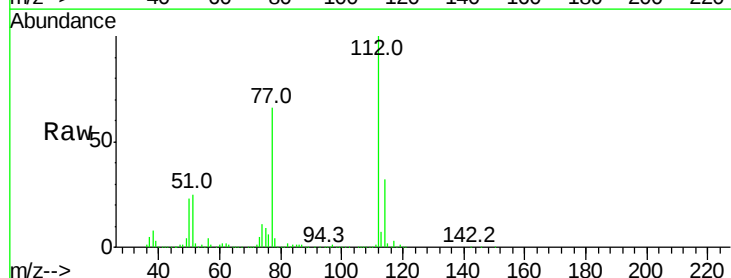
Instrument :
MSVOA_W
ClientSampleId :
VSTD10004

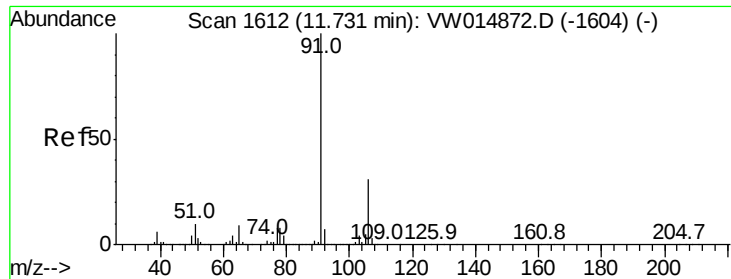
Tgt Ion:107 Resp: 1107424
Ion Ratio Lower Upper
107 100
109 92.9 65.0 120.6
188 3.4 2.4 3.6



#52
Chlorobenzene
Concen: 96.008 ug/L
RT: 11.65 min Scan# 1599
Delta R.T. -0.01 min
Lab File: VW014874.D
Acq: 05 Feb 2020 15:06

Tgt Ion:112 Resp: 4052589
Ion Ratio Lower Upper
112 100
77 65.8 49.9 74.9
114 32.2 22.7 42.1





#53

Ethylbenzene

Concen: 98.726 ug/L

RT: 11.73 min Scan# 1611

Delta R.T. -0.01 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Instrument :

MSVOA_W

ClientSampled :

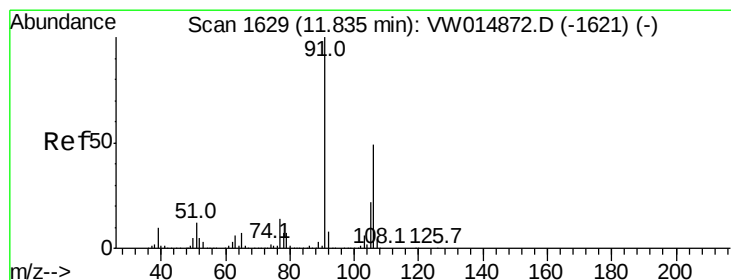
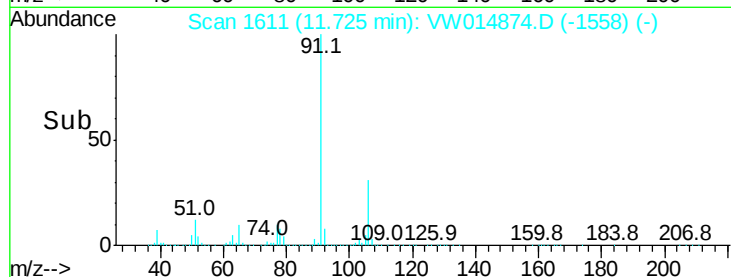
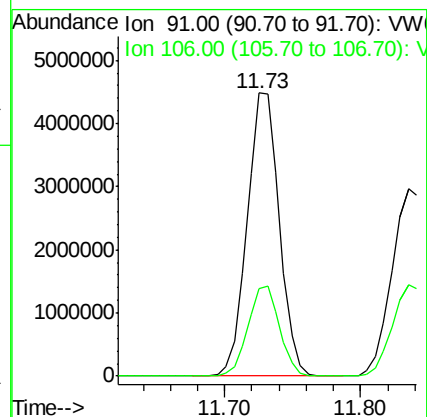
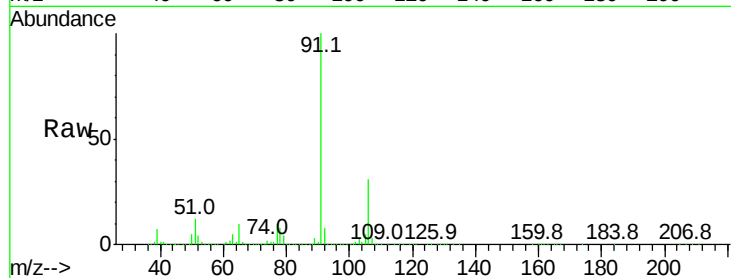
VSTD10004

Tgt Ion: 91 Resp: 7401597

Ion Ratio Lower Upper

91 100

106 31.1 21.5 39.9



#54

m,p-Xylene

Concen: 101.292 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VW014874.D

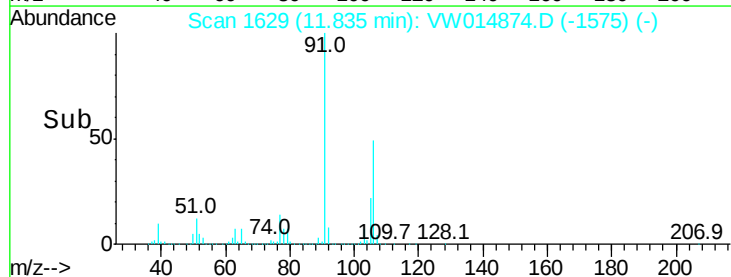
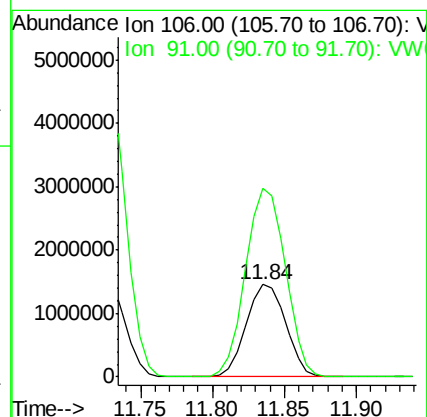
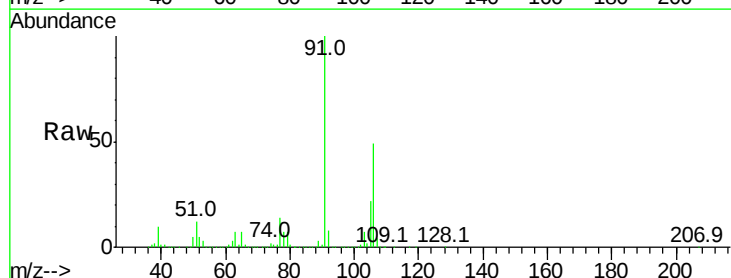
Acq: 05 Feb 2020 15:06

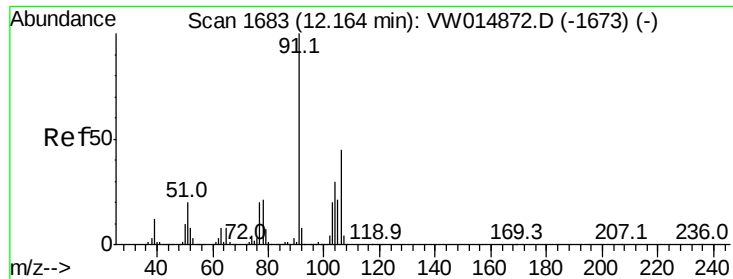
Tgt Ion: 106 Resp: 2778940

Ion Ratio Lower Upper

106 100

91 203.8 143.4 266.4





#55

o-xylene

Concen: 105.839 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Instrument :

MSVOA_W

ClientSampled :

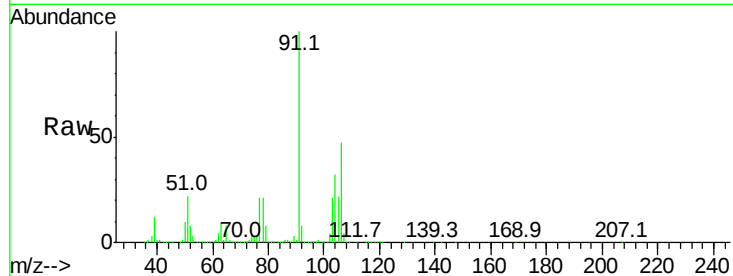
VSTD10004

Tgt Ion:106 Resp: 2705136

Ion Ratio Lower Upper

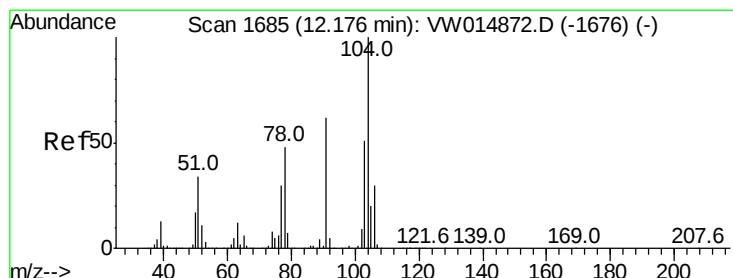
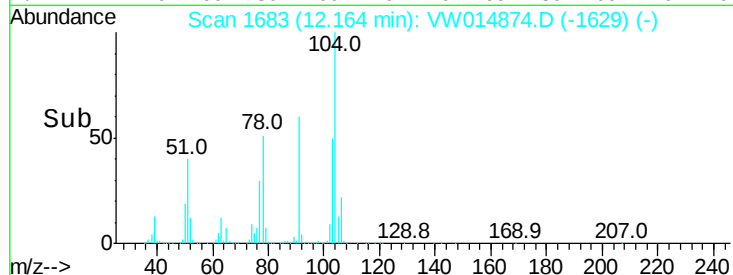
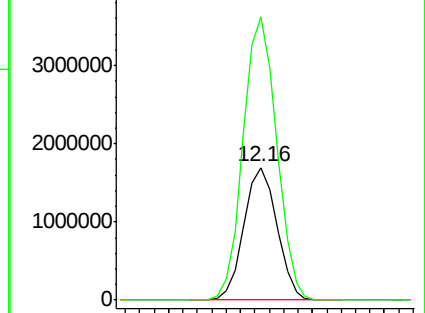
106 100

91 213.8 155.0 287.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 106.235 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VW014874.D

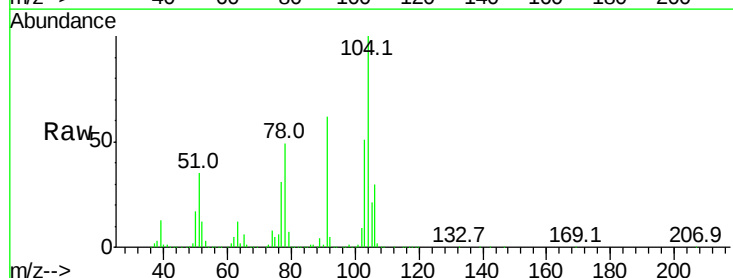
Acq: 05 Feb 2020 15:06

Tgt Ion:104 Resp: 4623666

Ion Ratio Lower Upper

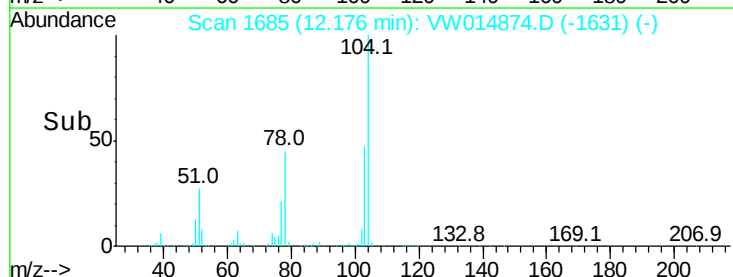
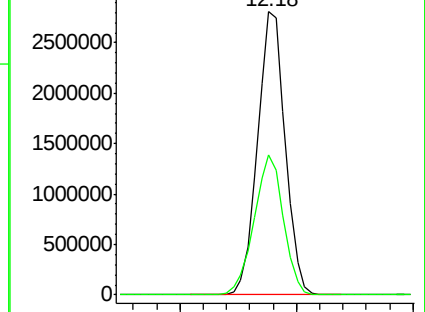
104 100

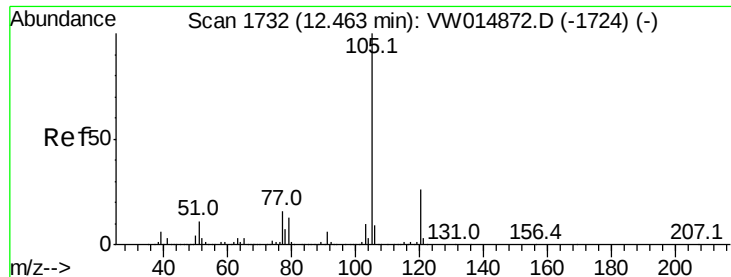
78 49.4 33.8 62.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 102.619 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Instrument :

MSVOA_W

ClientSampleId :

VSTD10004

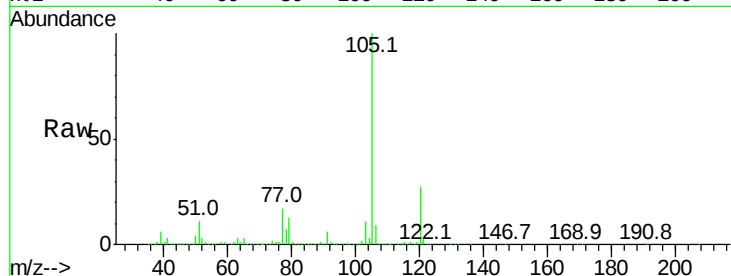
Tgt Ion:105 Resp: 7092633

Ion Ratio Lower Upper

105 100

120 26.6 20.4 30.6

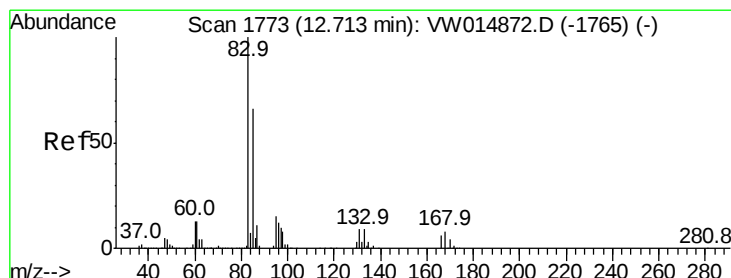
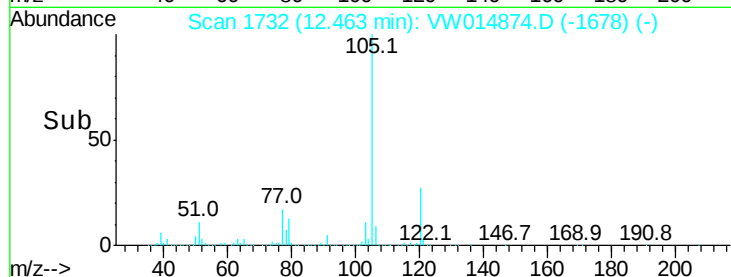
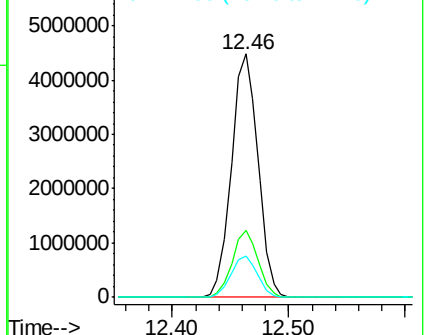
77 16.8 13.1 19.7



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: 91.134 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

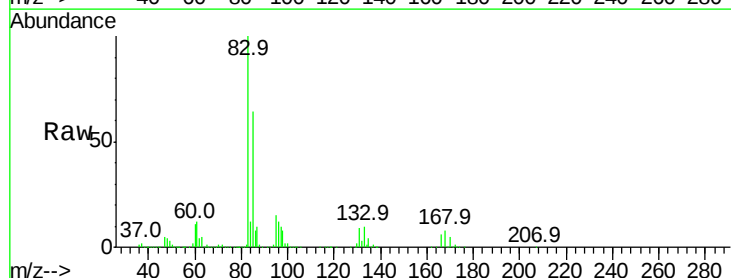
Tgt Ion: 83 Resp: 1476559

Ion Ratio Lower Upper

83 100

85 63.7 45.9 85.3

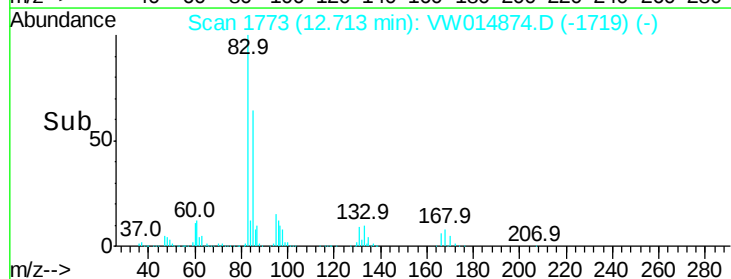
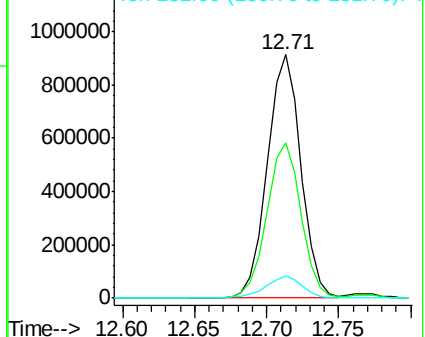
131 9.1 7.3 10.9

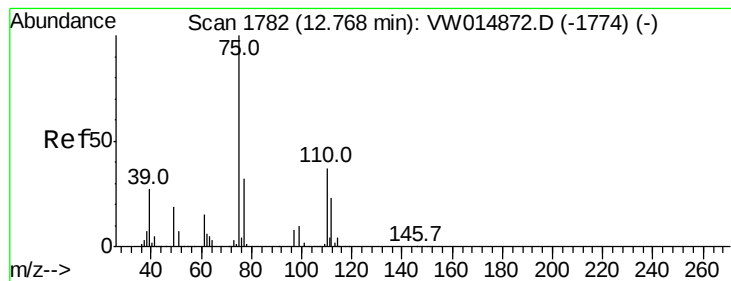


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 88.647 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Instrument :

MSVOA_W

ClientSampleId :

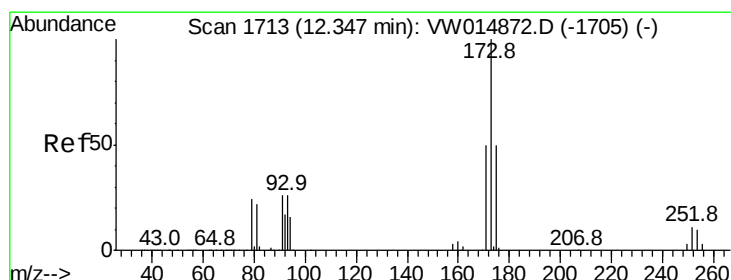
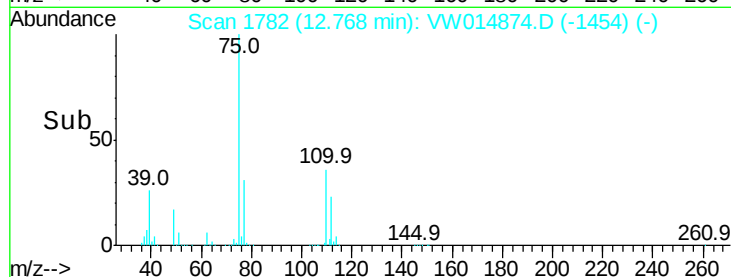
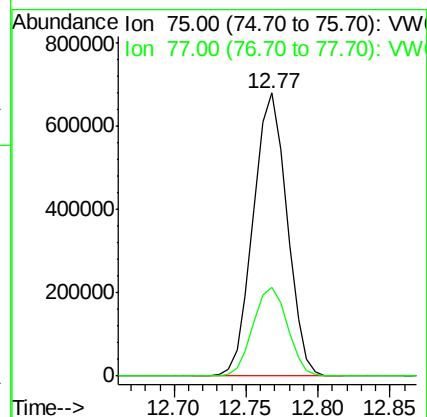
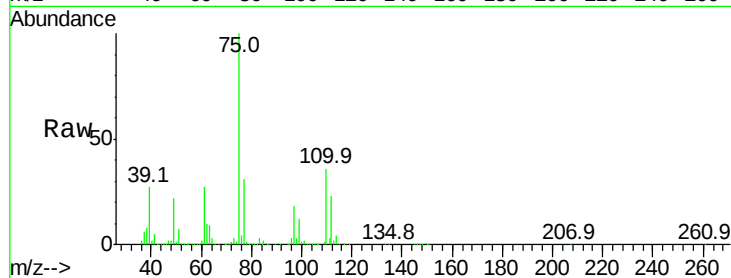
VSTD10004

Tgt Ion: 75 Resp: 1099559

Ion Ratio Lower Upper

75 100

77 32.2 25.9 38.9



#62

Bromoform

Concen: 97.667 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

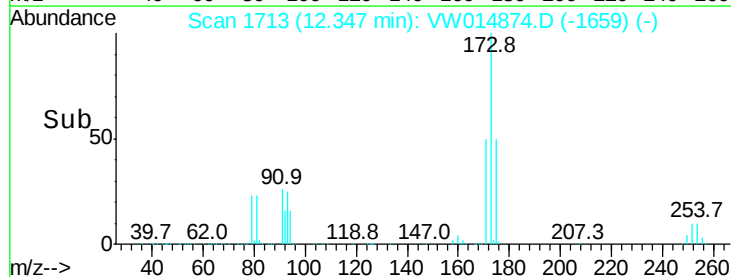
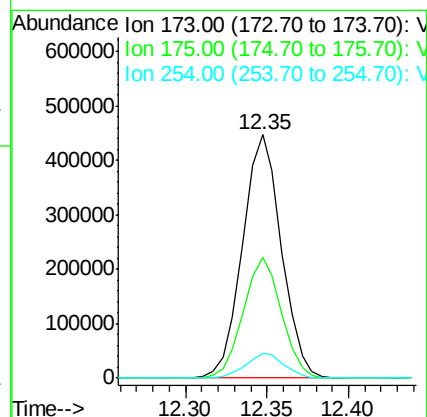
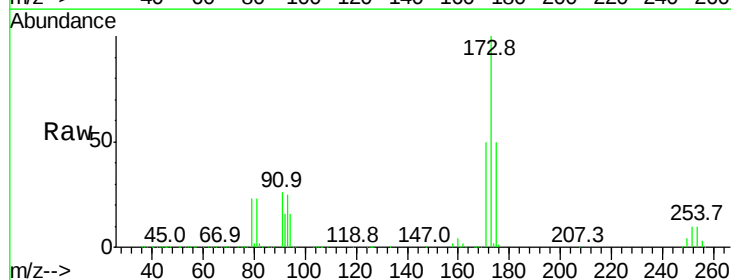
Tgt Ion: 173 Resp: 740797

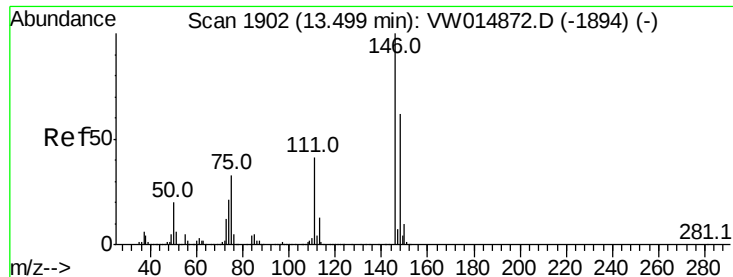
Ion Ratio Lower Upper

173 100

175 48.8 38.9 58.3

254 10.1 7.8 11.8

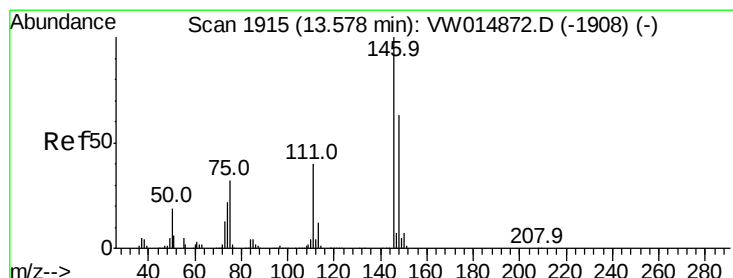
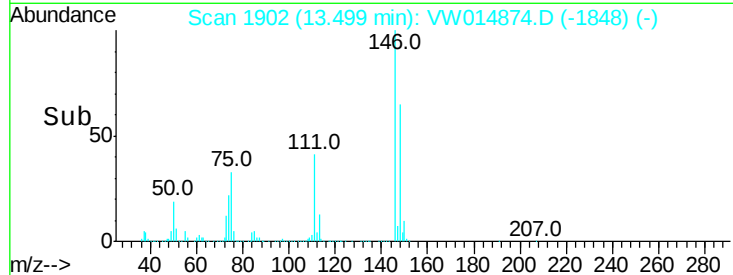
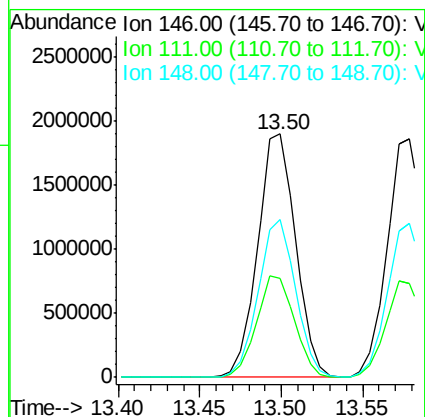
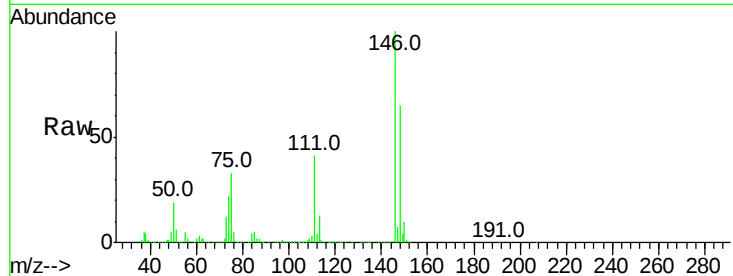




#63
 1,3-Dichlorobenzene
 Concen: 99.572 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW014874.D
 Acq: 05 Feb 2020 15:06

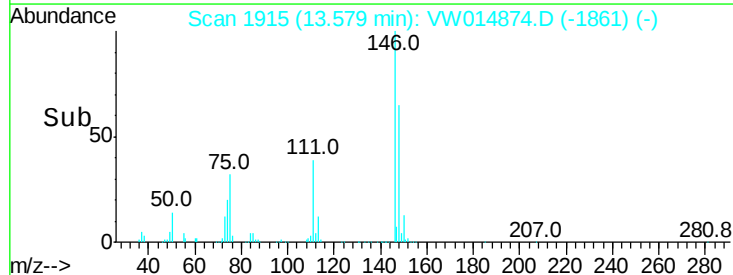
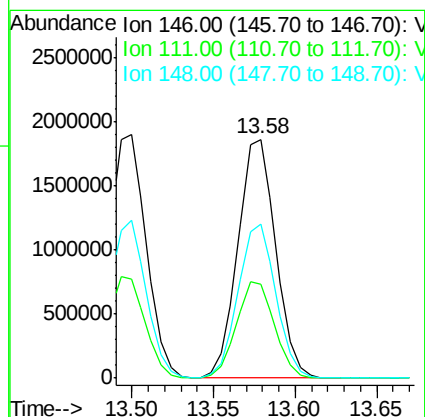
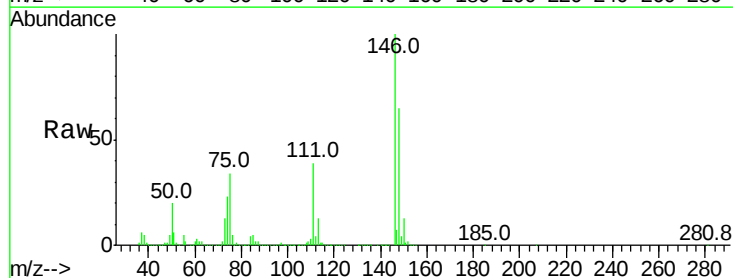
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD10004

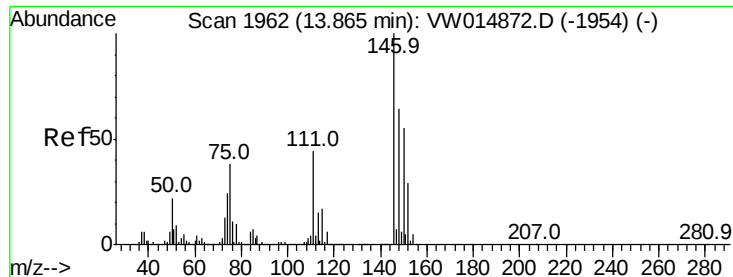
Tgt Ion:146 Resp: 3064506
 Ion Ratio Lower Upper
 146 100
 111 40.7 28.6 53.0
 148 64.6 43.3 80.5



#64
 1,4-Dichlorobenzene
 Concen: 96.885 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW014874.D
 Acq: 05 Feb 2020 15:06

Tgt Ion:146 Resp: 3005633
 Ion Ratio Lower Upper
 146 100
 111 39.4 27.9 51.7
 148 64.6 44.0 81.8

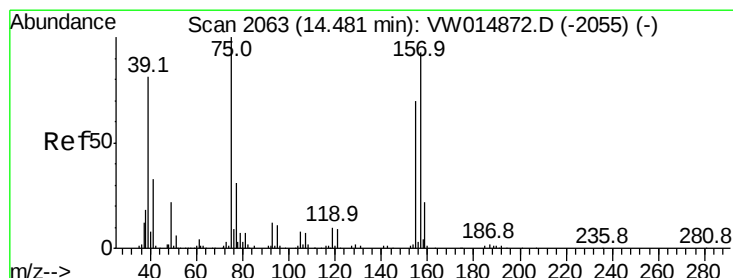
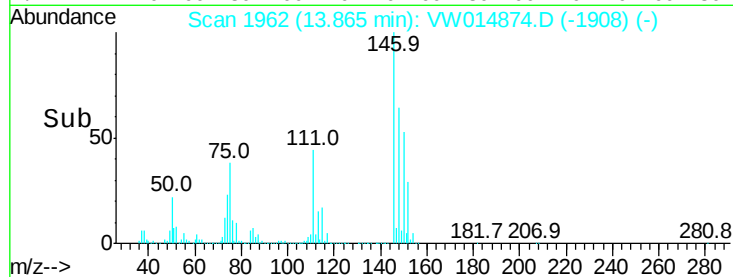
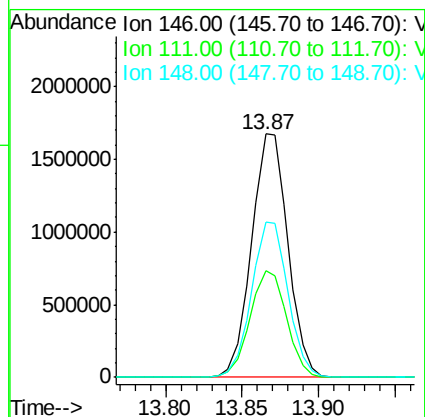
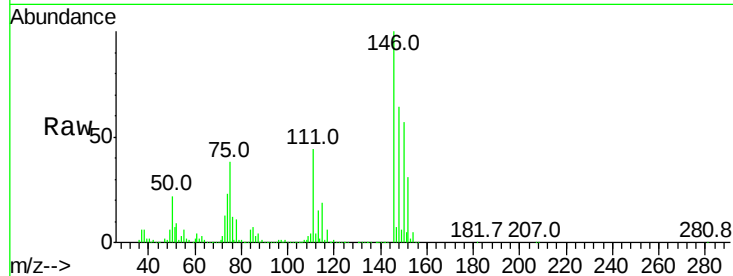




#65
 1,2-Dichlorobenzene
 Concen: 99.111 ug/L
 RT: 13.87 min Scan# 1962
 Delta R.T. 0.00 min
 Lab File: VW014874.D
 Acq: 05 Feb 2020 15:06

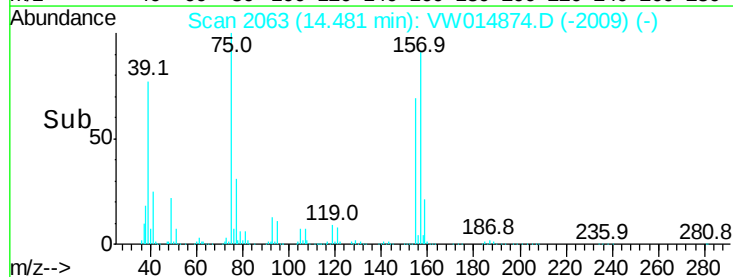
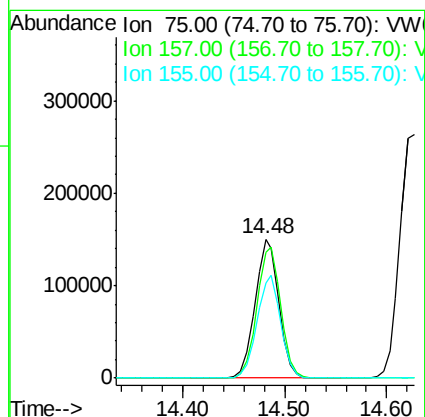
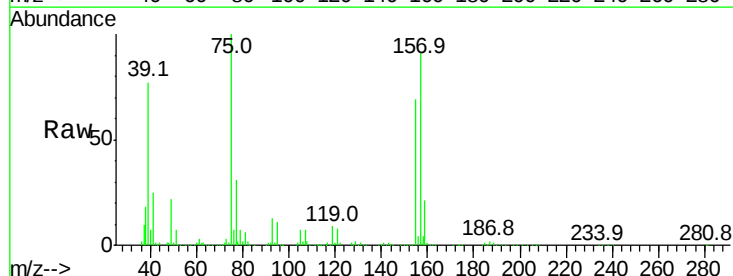
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD10004

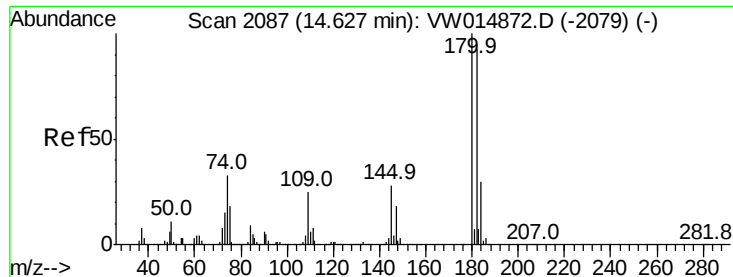
Tgt Ion: 146 Resp: 2777086
 Ion Ratio Lower Upper
 146 100
 111 44.1 35.0 52.6
 148 64.0 51.1 76.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 89.271 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. 0.00 min
 Lab File: VW014874.D
 Acq: 05 Feb 2020 15:06

Tgt Ion: 75 Resp: 244145
 Ion Ratio Lower Upper
 75 100
 157 91.0 74.2 111.4
 155 68.6 56.1 84.1

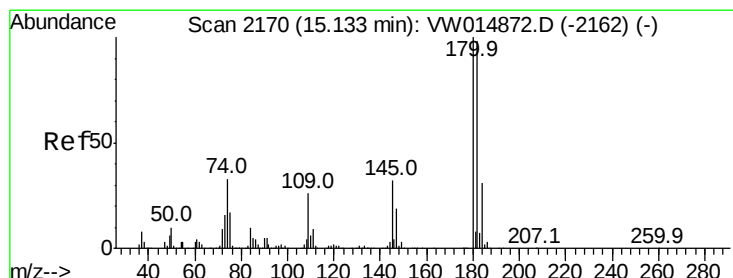
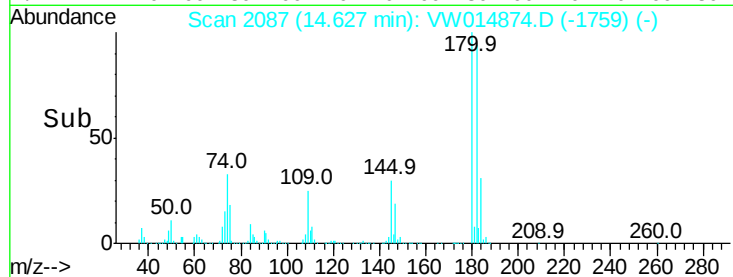
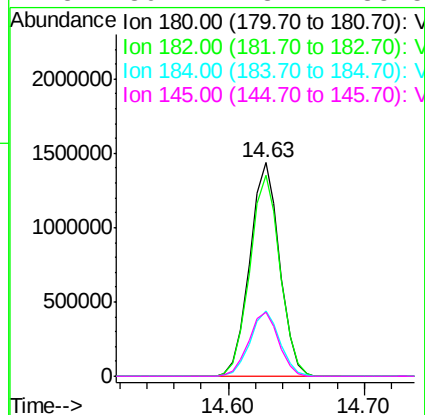
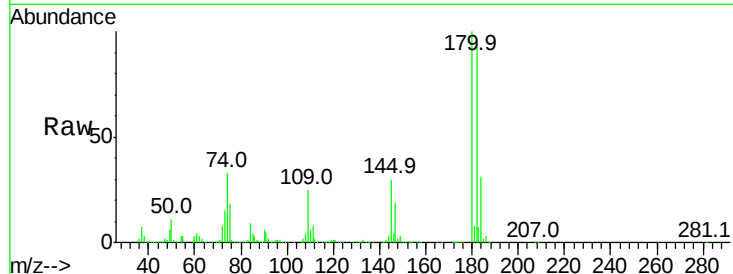




#67
 1,3,5-Trichlorobenzene
 Concen: 101.442 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW014874.D
 Acq: 05 Feb 2020 15:06

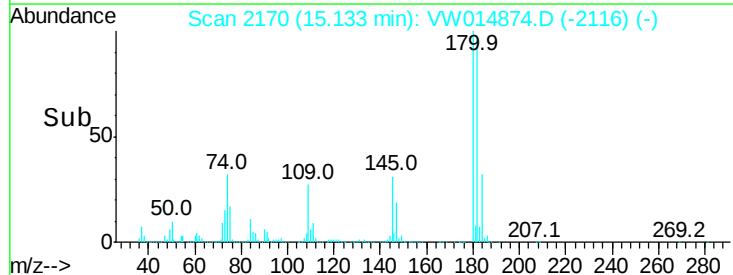
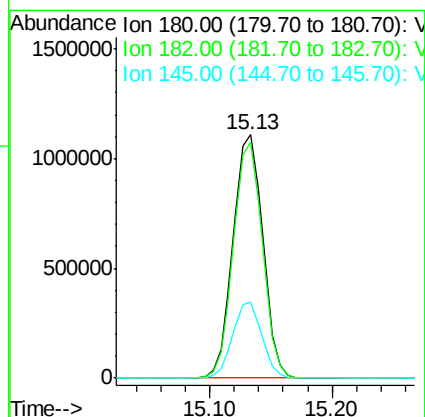
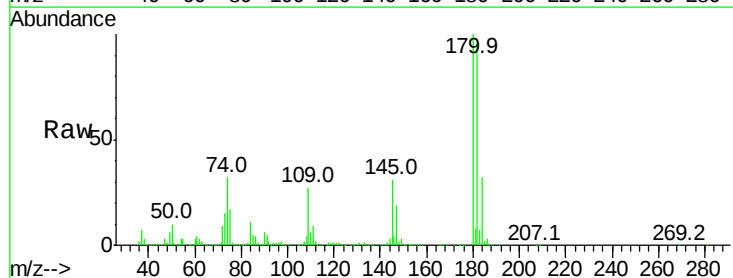
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD10004

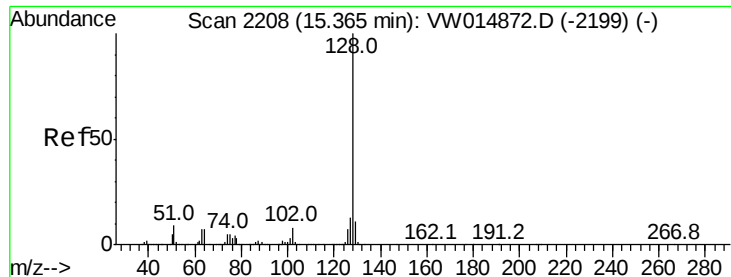
Tgt Ion:180 Resp: 2212201
 Ion Ratio Lower Upper
 180 100
 182 95.0 75.5 113.3
 184 30.5 24.6 36.8
 145 30.1 23.7 35.5



#68
 1,2,4-trichlorobenzene
 Concen: 109.341 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW014874.D
 Acq: 05 Feb 2020 15:06

Tgt Ion:180 Resp: 1862881
 Ion Ratio Lower Upper
 180 100
 182 94.8 76.4 114.6
 145 30.6 24.6 37.0





#69

Naphthalene

Concen: 114.760 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

Instrument :

MSVOA_W

ClientSampleId :

VSTD10004

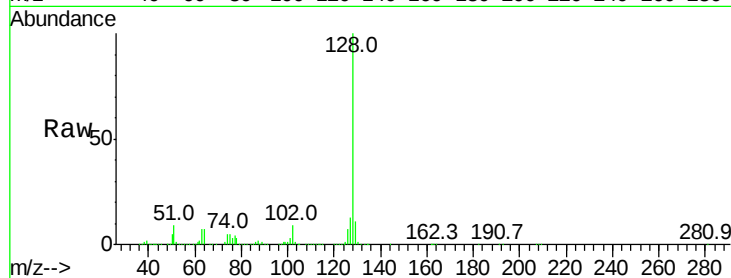
Tgt Ion:128 Resp: 3966894

Ion Ratio Lower Upper

128 100

129 11.0 8.7 13.1

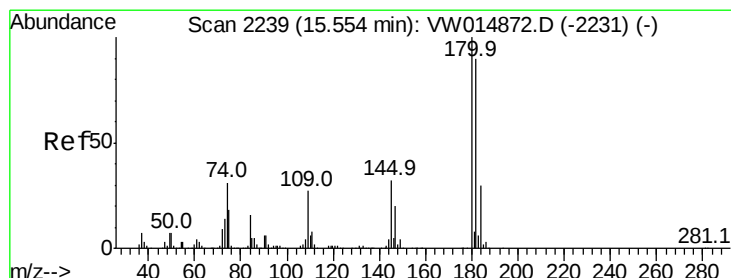
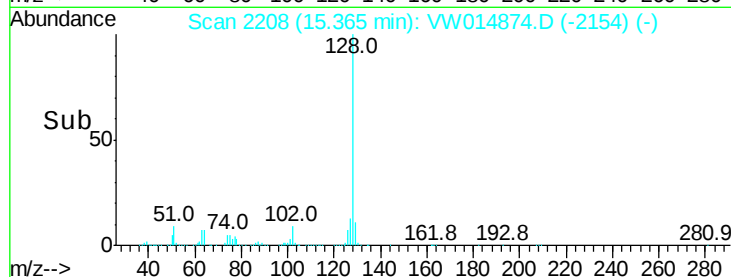
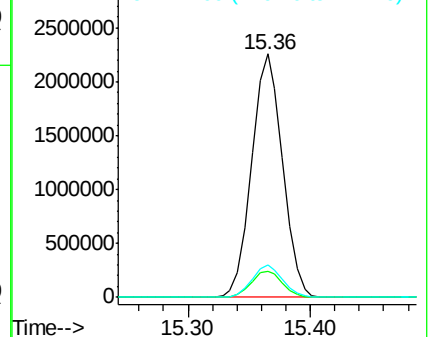
127 13.0 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 107.025 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW014874.D

Acq: 05 Feb 2020 15:06

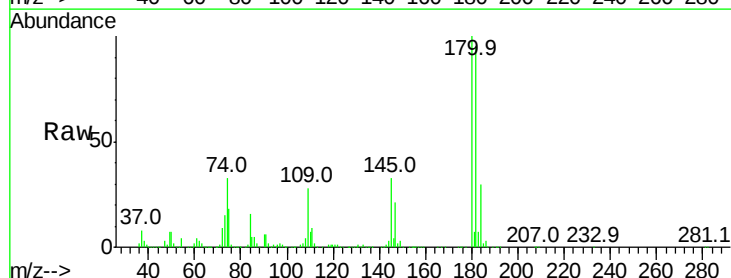
Tgt Ion:180 Resp: 1685084

Ion Ratio Lower Upper

180 100

182 93.5 75.3 112.9

145 32.8 26.0 39.0



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

