

Data File : VW010104.D
Acq On : 23 Apr 2019 19:28
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

Quant Time: Apr 24 03:55:34 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041519S.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 24 03:51:20 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	862559	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	794400	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	393957	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	207513	25.46	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	101.84%
7) Chloroethane-d5	2.89	69	165094	20.00	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	80.00%
10) 1,1-Dichloroethene-d2	4.01	63	561425	24.84	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	99.36%
20) 2-Butanone-d5	7.07	46	270613	61.37	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	122.74%
24) Chloroform-d	7.64	84	593028	23.78	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.12%
26) 1,2-Dichloroethane-d4	8.31	65	353733	22.86	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	91.44%
29) Benzene-d6	8.27	84	1147649	26.29	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	105.16%
33) 1,2-Dichloropropane-d6	9.27	67	364319	26.20	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	104.80%
37) Toluene-d8	10.32	98	1069366	26.85	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	107.40%
38) trans-1,3-Dichloropropene-	10.58	79	176146	26.72	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	106.88%
39) 2-Hexanone-d5	10.93	63	215077	69.80	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	139.60%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	346719	26.66	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	106.64%
61) 1,2-Dichlorobenzene-d4	13.86	152	383854	25.92	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	103.68%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	277057	22.894 ug/L	96
3) Chloromethane	2.21	50	210260	19.062 ug/L	97
5) Vinyl chloride	2.37	62	250999	24.190 ug/L	98
6) Bromomethane	2.78	94	140225	18.299 ug/L	98
8) Chloroethane	2.93	64	143366	19.246 ug/L	99
9) Trichlorofluoromethane	3.25	101	128043	14.989 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.05	101	256861	23.094 ug/L	97
12) 1,1-Dichloroethene	4.03	96	254912	24.479 ug/L	95
13) Acetone	4.12	43	159232	40.610 ug/L	100
14) Carbon disulfide	4.37	76	678564	22.987 ug/L	99
15) Methyl Acetate	4.67	43	190738	24.102 ug/L	99
16) Methylene chloride	4.91	84	266264	17.048 ug/L	93
17) Methyl tert-butyl Ether	5.42	73	394931	25.913 ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	272255	23.101 ug/L	95
19) 1,1-Dichloroethane	6.21	63	533332	22.703 ug/L	99
21) 2-Butanone	7.17	43	272588	53.091 ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	304764	23.828 ug/L	97

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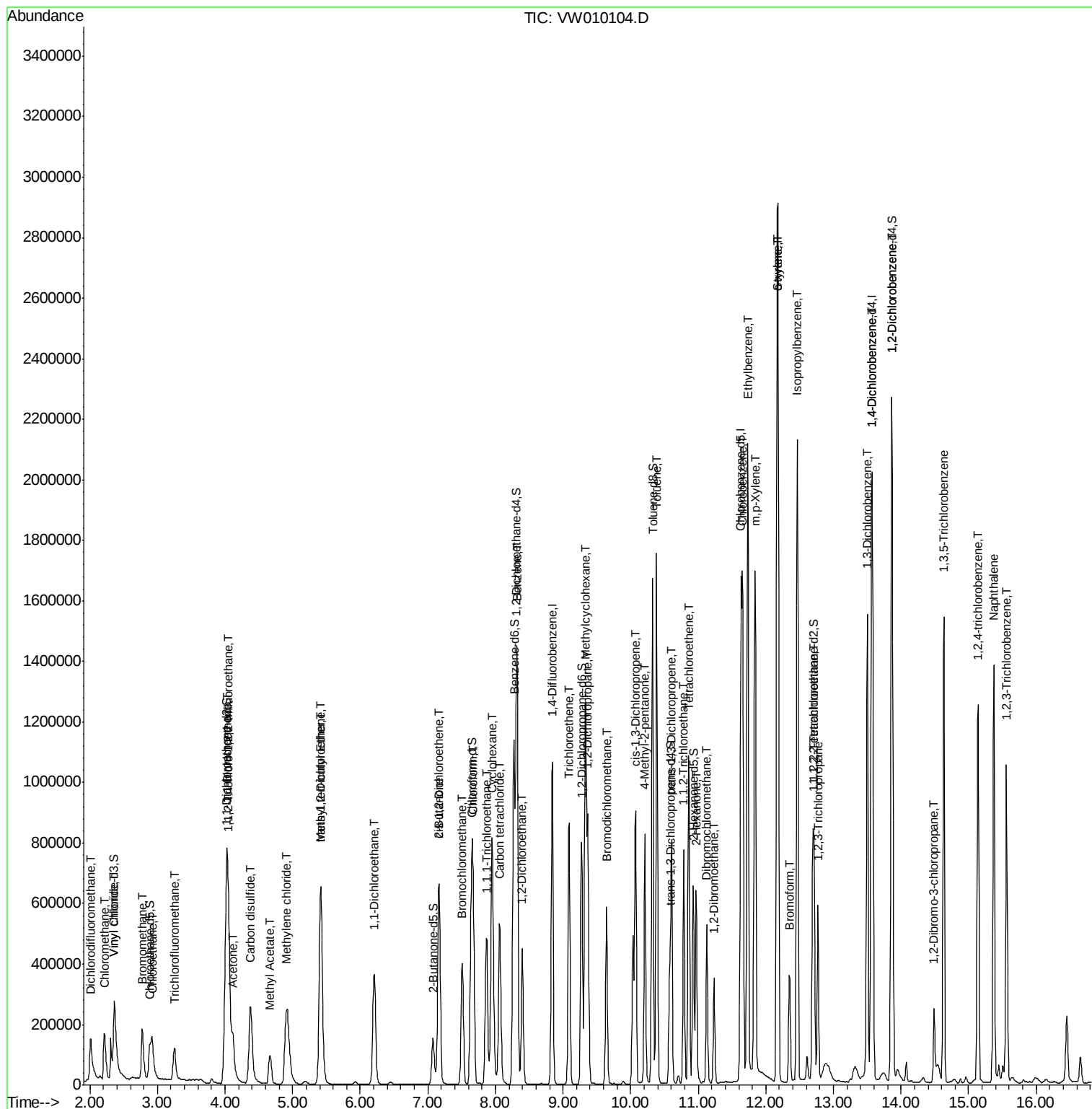
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	136677	22.946	ug/L	94
25) Chloroform	7.67	83	525079	21.844	ug/L	99
27) 1,2-Dichloroethane	8.40	62	394221	21.302	ug/L	98
30) Cyclohexane	7.95	56	496973	27.680	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	398584	24.025	ug/L	98
32) Carbon tetrachloride	8.06	117	393800	24.176	ug/L	100
34) Benzene	8.32	78	1147352	24.517	ug/L	100
35) Trichloroethene	9.09	95	300227	24.674	ug/L	98
36) Methylcyclohexane	9.34	83	516404	26.415	ug/L	97
40) 1,2-Dichloropropane	9.37	63	300437	24.275	ug/L	100
41) Bromodichloromethane	9.64	83	389660	23.061	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	494192	25.900	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	564240	55.355	ug/L	97
44) Toluene	10.38	91	1235349	24.883	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	417974	24.809	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	231961	24.032	ug/L	99
47) Tetrachloroethene	10.86	164	230551	24.257	ug/L	99
49) 2-Hexanone	10.97	43	412267	56.931	ug/L	98
50) Dibromochloromethane	11.13	129	271160	23.667	ug/L	99
51) 1,2-Dibromoethane	11.23	107	235054	24.878	ug/L	99
52) Chlorobenzene	11.66	112	777008	23.985	ug/L	97
53) Ethylbenzene	11.73	91	1411870	25.443	ug/L	100
54) m,p-Xylene	11.84	106	523328	25.783	ug/L	99
55) o-xylene	12.16	106	504206	25.900	ug/L	98
56) Styrene	12.18	104	877528	25.749	ug/L	99
57) Isopropylbenzene	12.46	105	1369174	26.405	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	313864	24.718	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	234827	24.712	ug/L	99
62) Bromoform	12.35	173	163244	23.596	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	608286	25.555	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	611046	23.890	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	559127	23.941	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	63358	26.808	ug/L	93
67) 1,3,5-Trichlorobenzene	14.63	180	456343	26.174	ug/L	98
68) 1,2,4-trichlorobenzene	15.14	180	386954	27.093	ug/L	99
69) Naphthalene	15.37	128	1152803	37.607	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	351108	25.765	ug/L	99

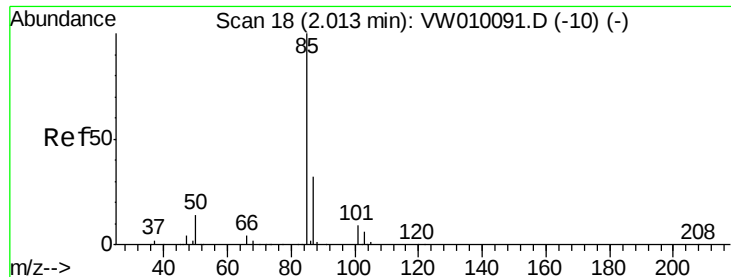
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 22.894 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

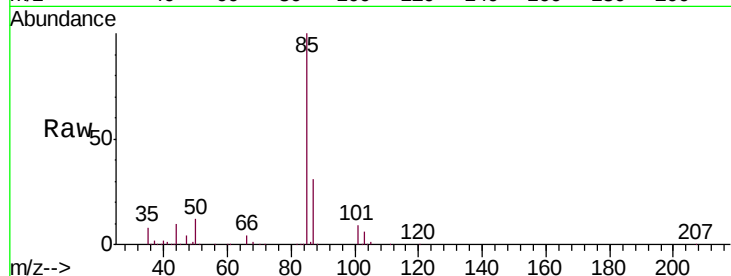
VSTD02512

Tgt Ion: 85 Resp: 277057

Ion Ratio Lower Upper

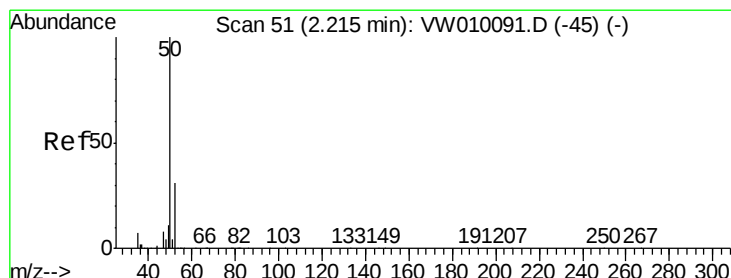
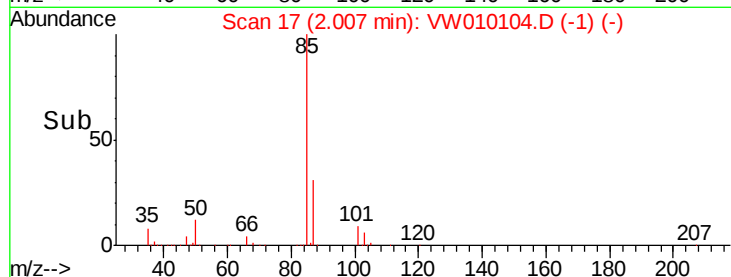
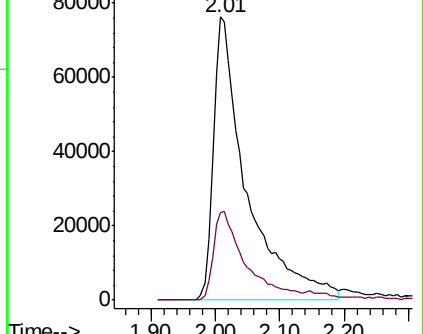
85 100

87 30.0 22.7 42.1



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 19.062 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW010104.D

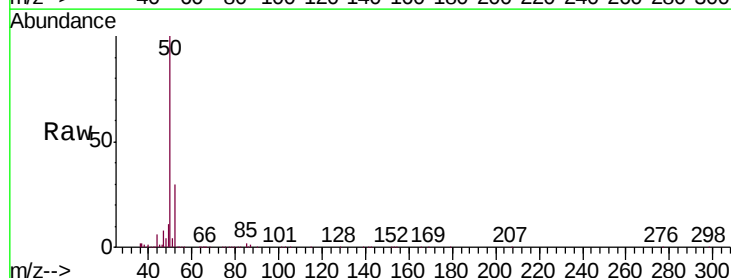
Acq: 23 Apr 2019 19:28

Tgt Ion: 50 Resp: 210260

Ion Ratio Lower Upper

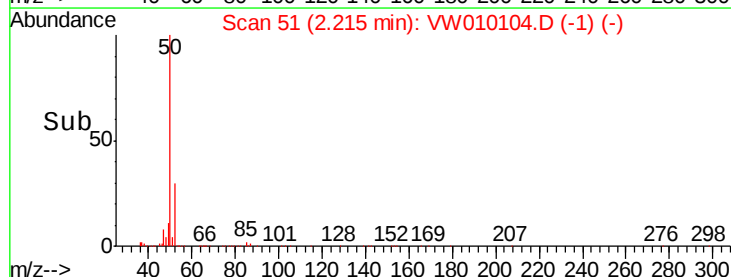
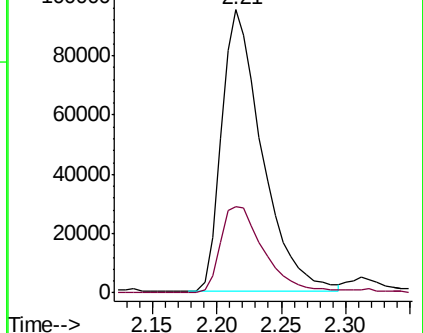
50 100

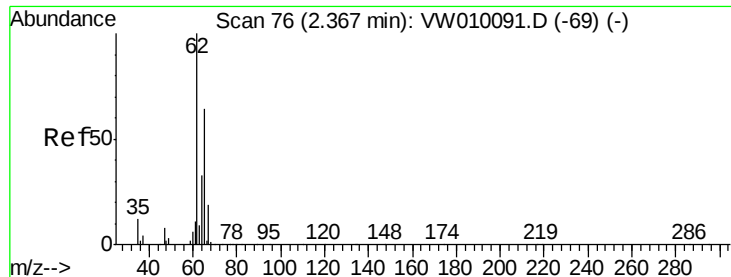
52 30.5 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 24.190 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

Instrument :

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ClientSampleId :

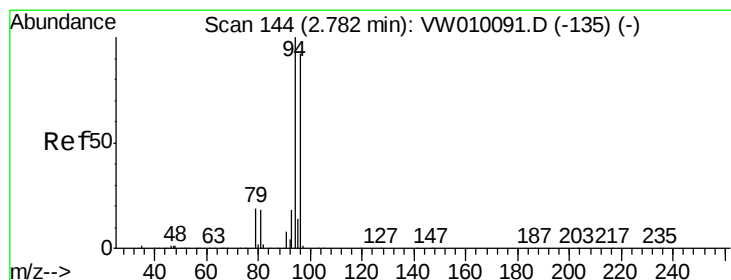
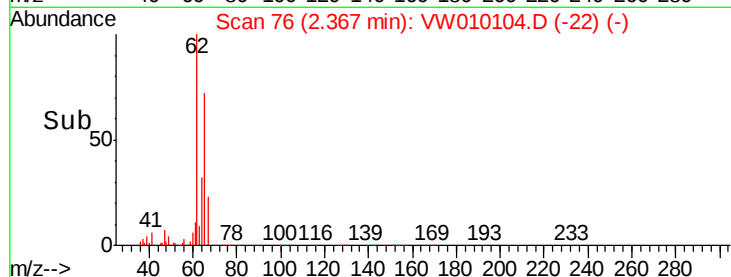
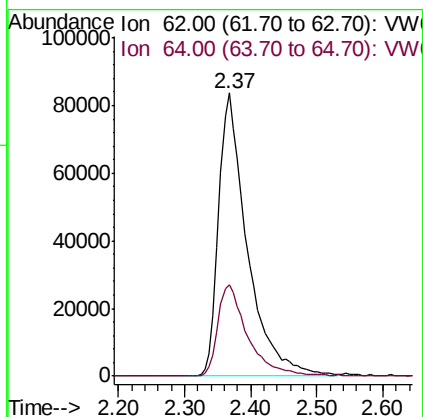
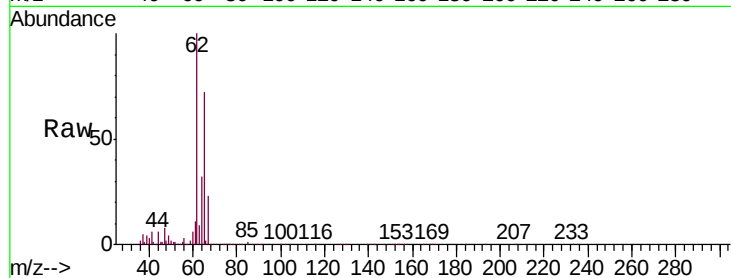
VSTD02512

Tgt Ion: 62 Resp: 250999

Ion Ratio Lower Upper

62 100

64 32.1 23.3 43.3



#6

Bromomethane

Concen: 18.299 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW010104.D

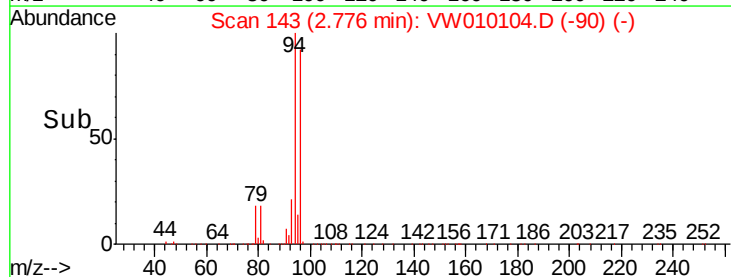
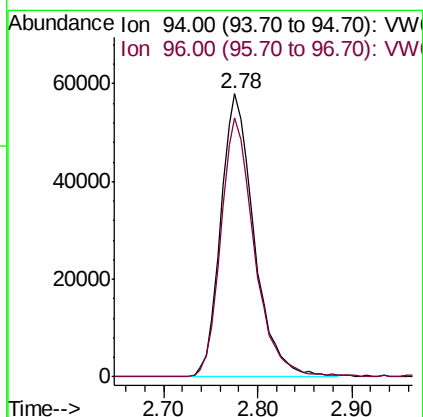
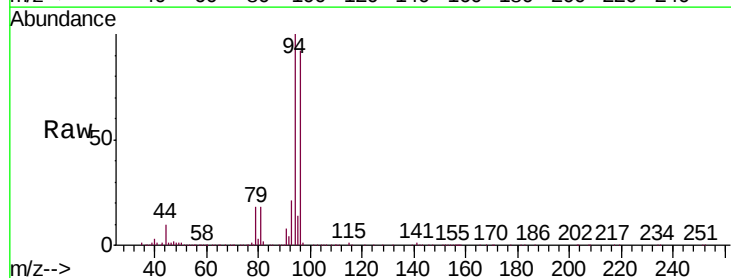
Acq: 23 Apr 2019 19:28

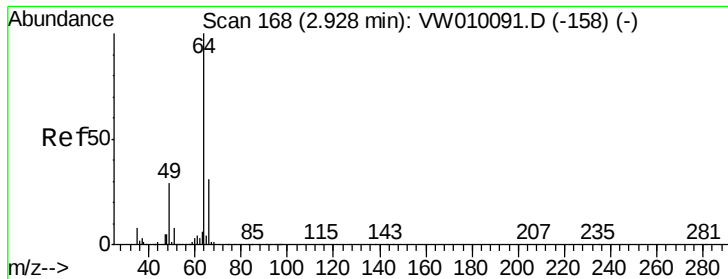
Tgt Ion: 94 Resp: 140225

Ion Ratio Lower Upper

94 100

96 92.5 9.5 180.3





#8

Chloroethane

Concen: 19.246 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

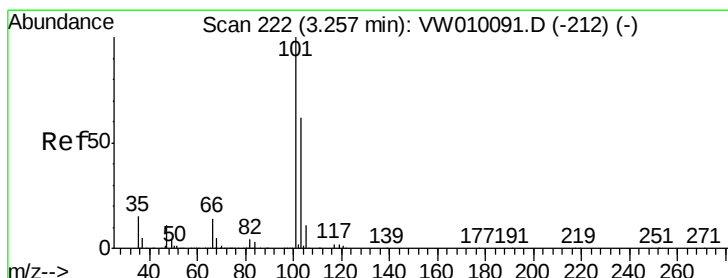
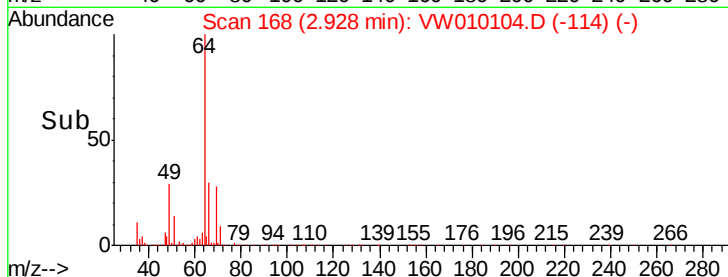
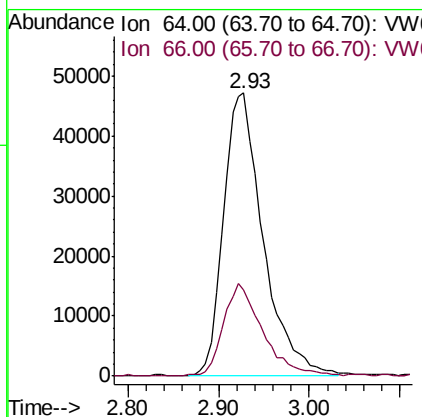
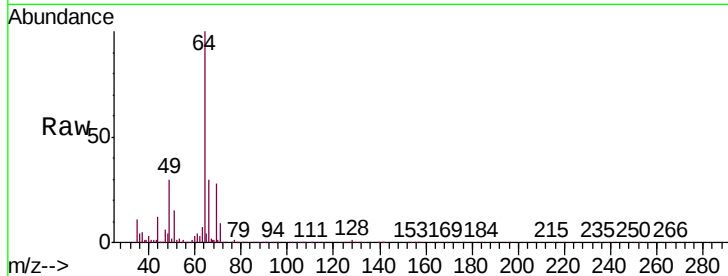
VSTD02512

Tgt Ion: 64 Resp: 143366

Ion Ratio Lower Upper

64 100

66 30.3 21.7 40.3



#9

Trichlorofluoromethane

Concen: 14.989 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.01 min

Lab File: VW010104.D

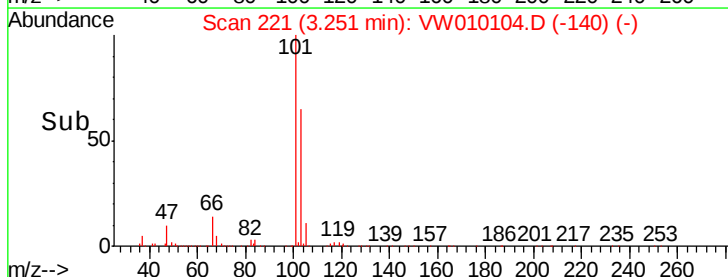
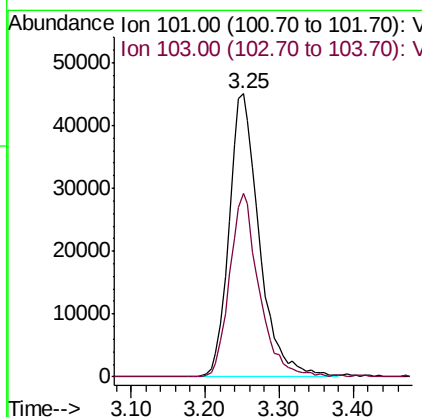
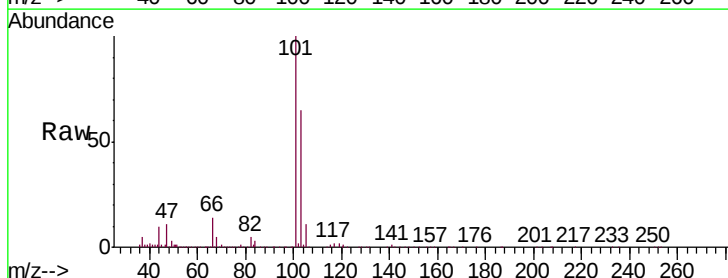
Acq: 23 Apr 2019 19:28

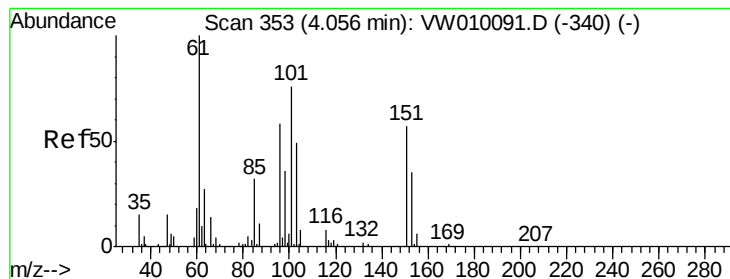
Tgt Ion: 101 Resp: 128043

Ion Ratio Lower Upper

101 100

103 62.3 44.5 82.7





#11

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

Concen: 23.094 ug/L

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW010104.D

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ClientSampleId :

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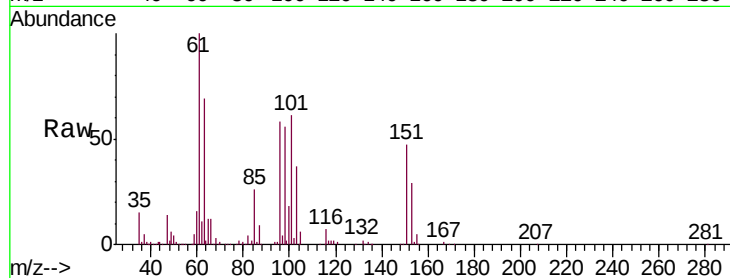
Tgt Ion:101 Resp: 256861

Ion Ratio Lower Upper

101 100

85 42.9 37.0 55.4

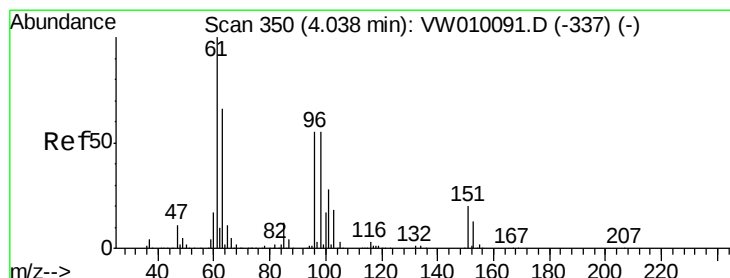
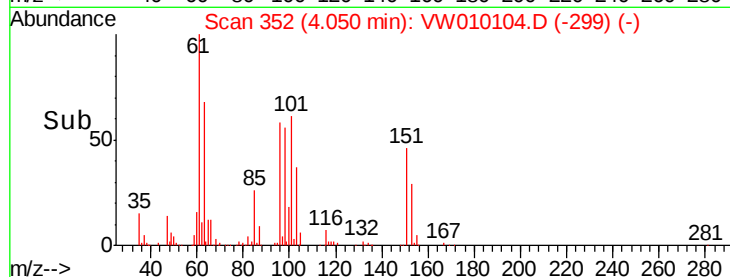
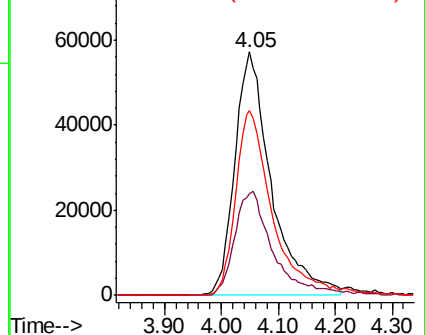
151 74.5 58.2 87.2



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: 24.479 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

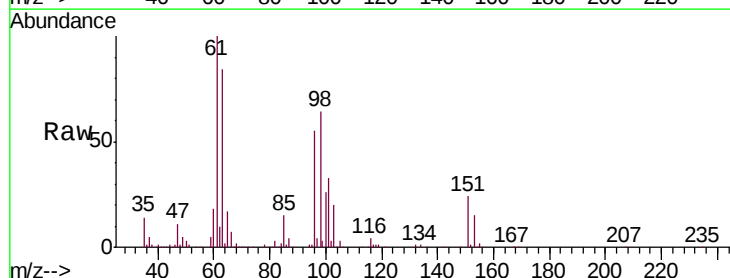
Tgt Ion: 96 Resp: 254912

Ion Ratio Lower Upper

96 100

61 182.3 131.2 243.6

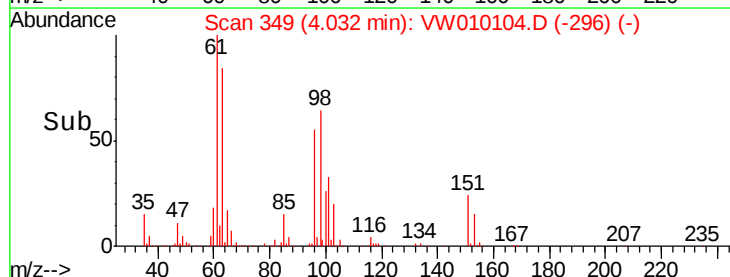
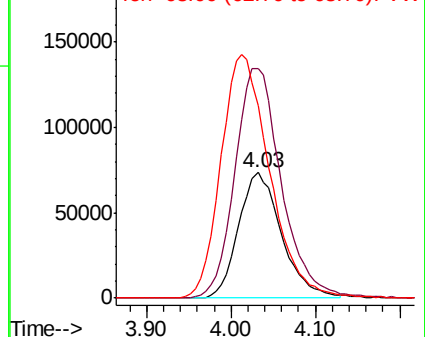
63 153.4 113.9 211.5

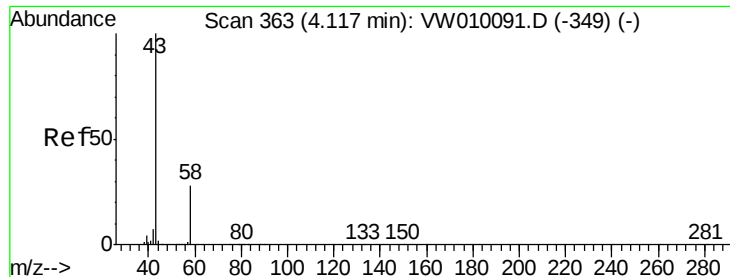


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 40.610 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

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Instrument :

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ClientSampleId :

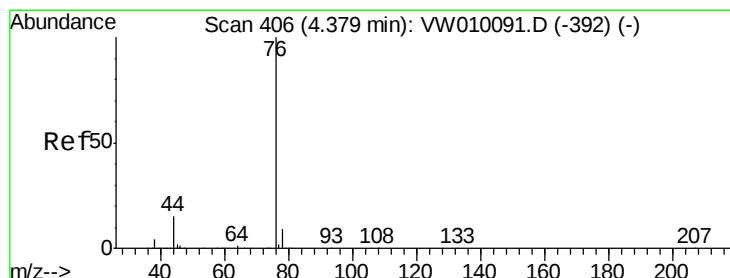
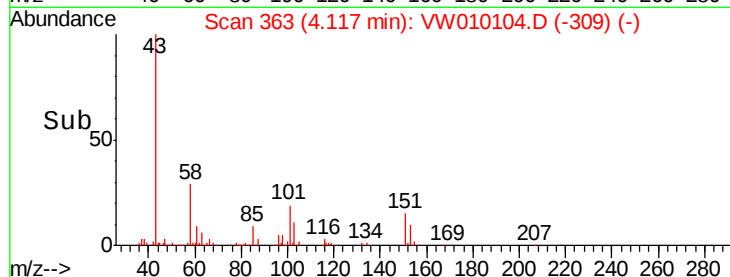
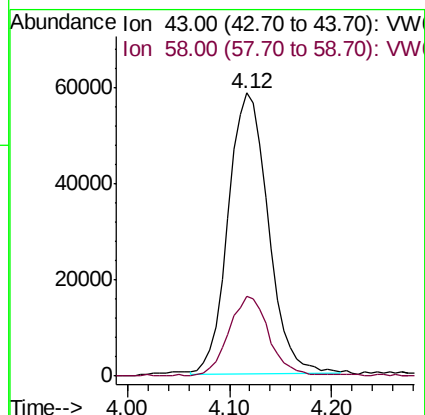
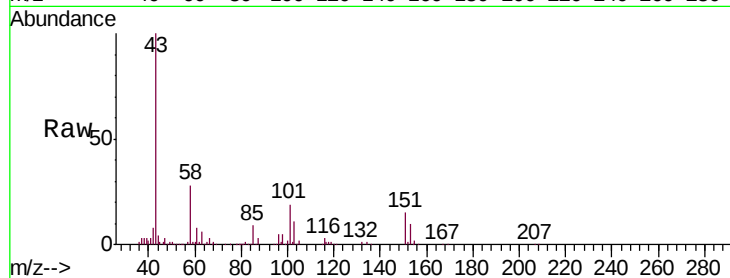
VSTD02512

Tgt Ion: 43 Resp: 159232

Ion Ratio Lower Upper

43 100

58 28.1 0.0 56.2



#14

Carbon disulfide

Concen: 22.987 ug/L

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW010104.D

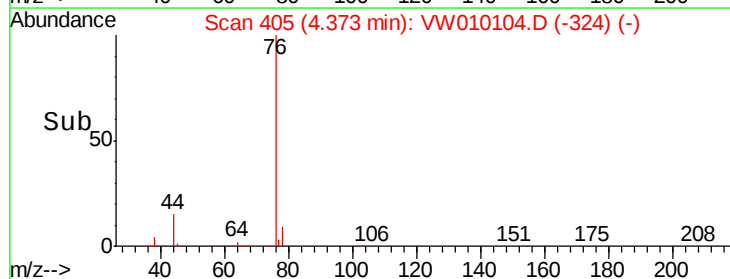
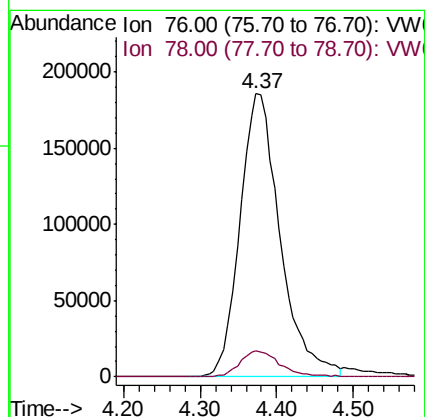
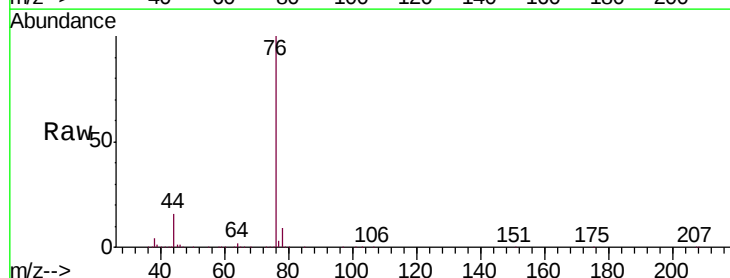
Acq: 23 Apr 2019 19:28

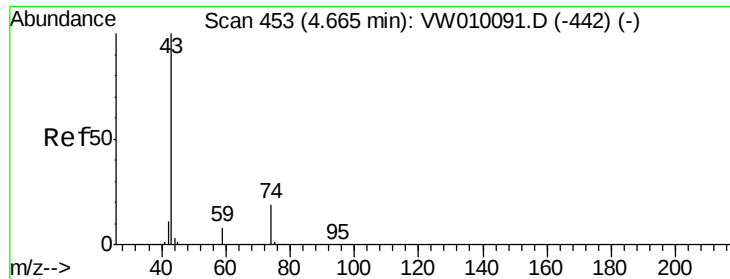
Tgt Ion: 76 Resp: 678564

Ion Ratio Lower Upper

76 100

78 9.1 7.5 11.3

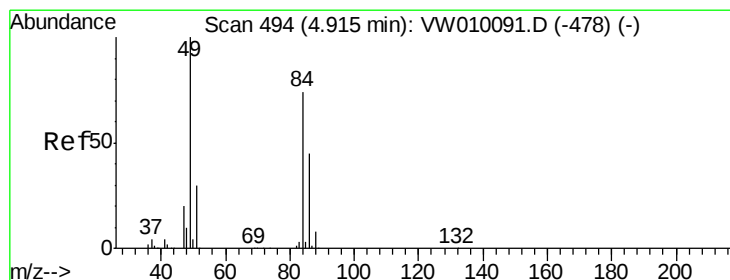
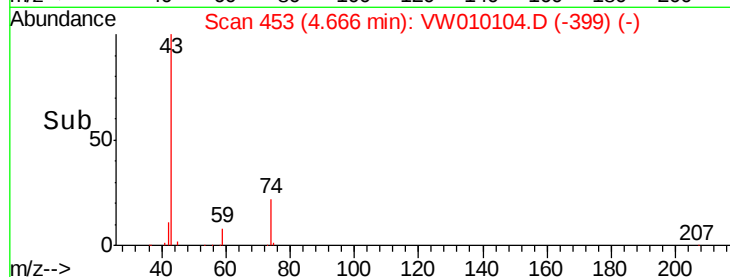
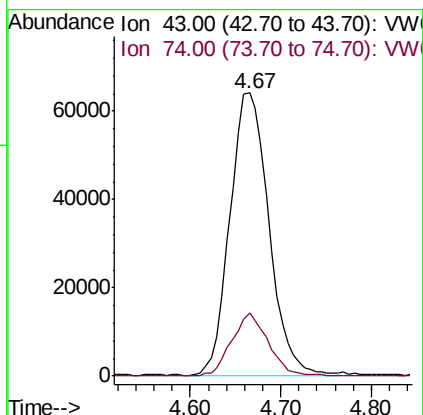
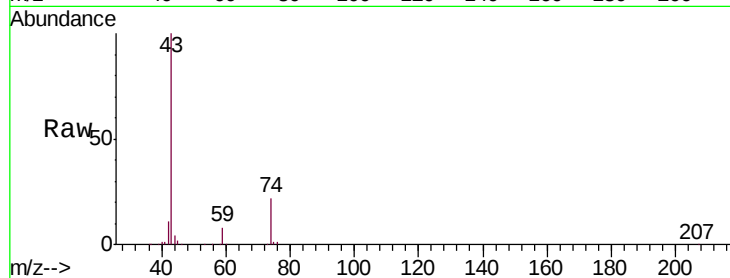




#15
Methyl Acetate
Concen: 24.102 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW010104.D
Acq: 23 Apr 2019 19:28

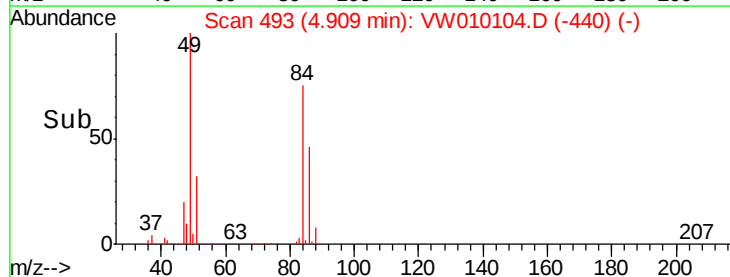
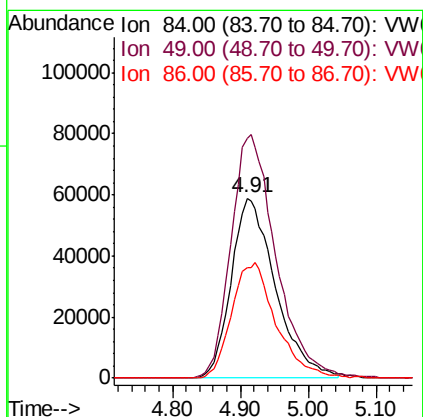
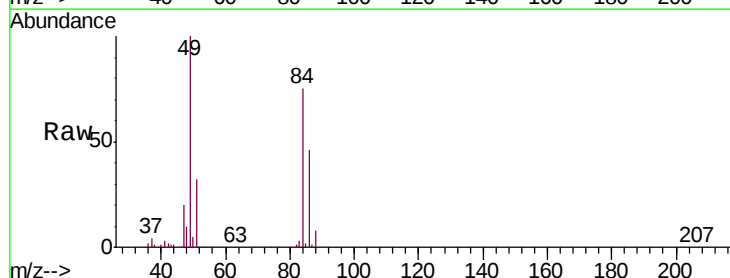
Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

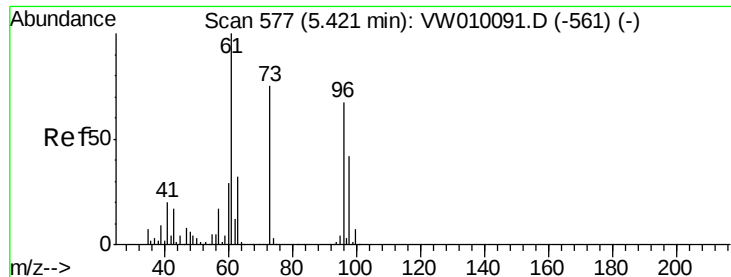
Tgt Ion: 43 Resp: 190738
Ion Ratio Lower Upper
43 100
74 21.0 16.2 24.4



#16
Methylene chloride
Concen: 17.048 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW010104.D
Acq: 23 Apr 2019 19:28

Tgt Ion: 84 Resp: 266264
Ion Ratio Lower Upper
84 100
49 132.8 100.7 187.1
86 61.7 43.8 81.3

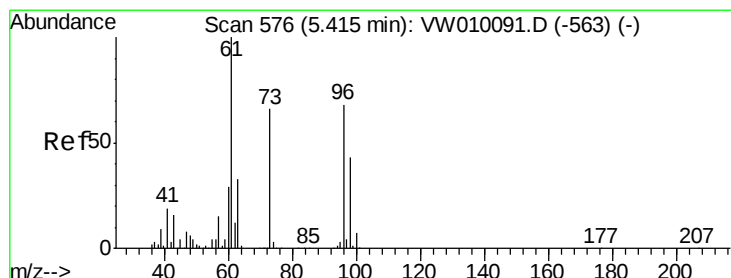
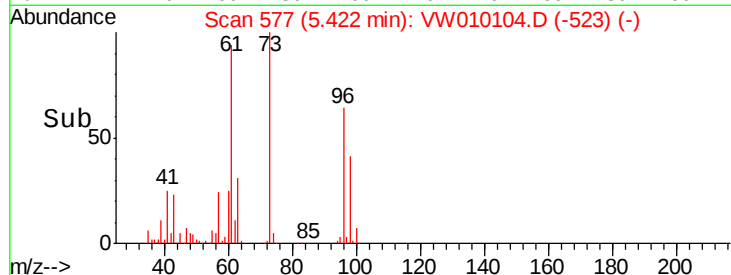
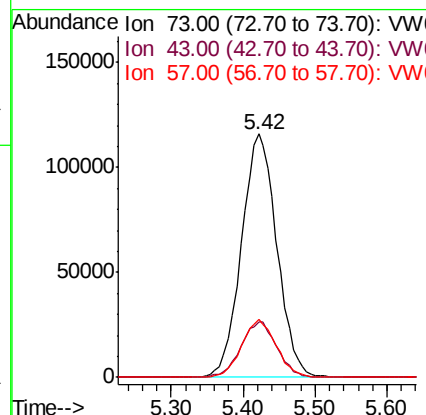
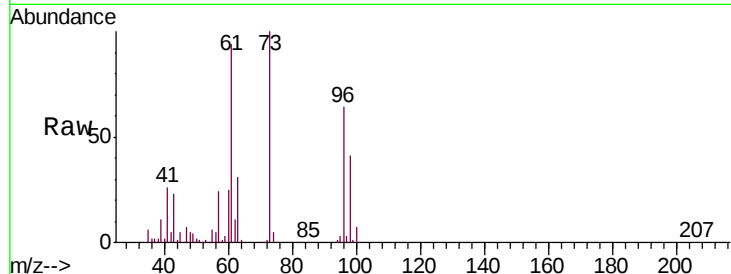




#17
Methyl tert-butyl Ether
Concen: 25.913 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW010104.D
Acq: 23 Apr 2019 19:28

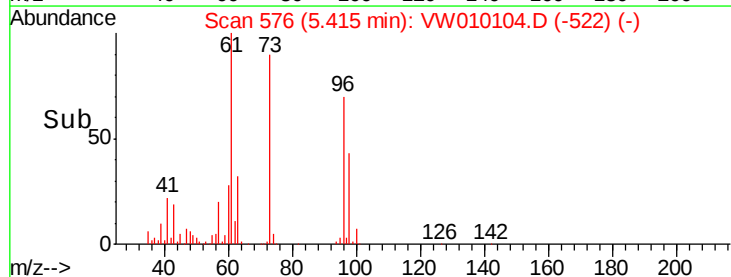
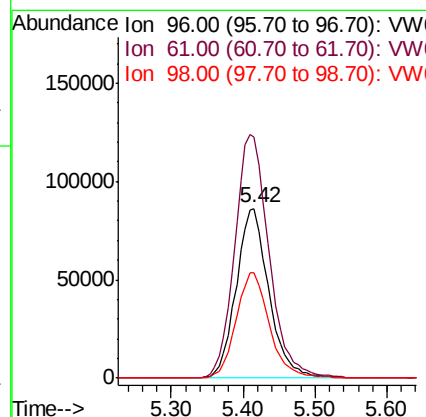
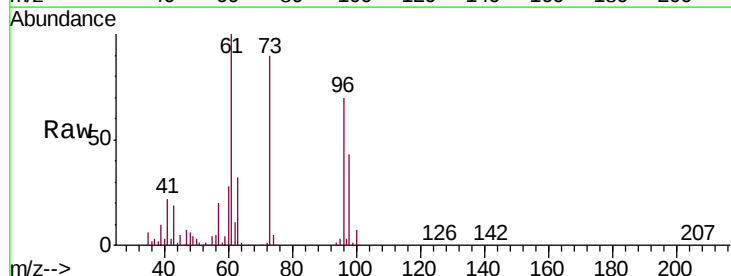
Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

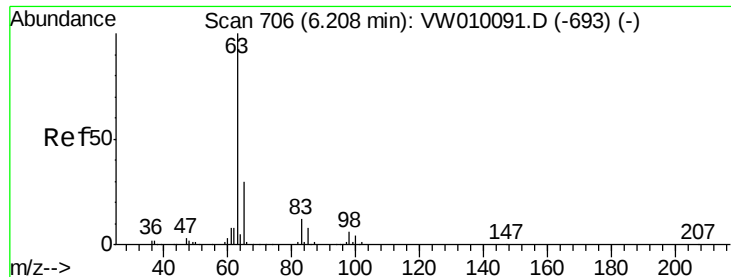
Tgt Ion: 73 Resp: 394931
Ion Ratio Lower Upper
73 100
43 22.9 19.4 29.0
57 23.3 18.6 28.0



#18
trans-1,2-Dichloroethene
Concen: 23.101 ug/L
RT: 5.42 min Scan# 576
Delta R.T. 0.00 min
Lab File: VW010104.D
Acq: 23 Apr 2019 19:28

Tgt Ion: 96 Resp: 272255
Ion Ratio Lower Upper
96 100
61 142.5 104.9 194.9
98 61.8 44.1 81.9

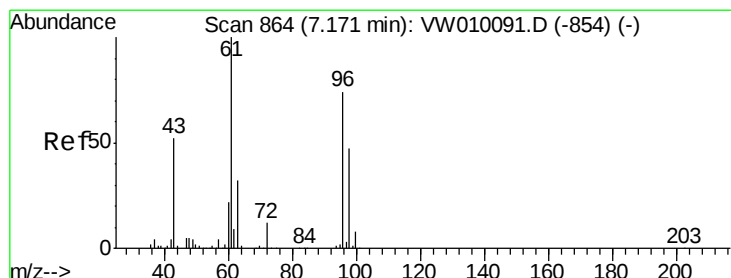
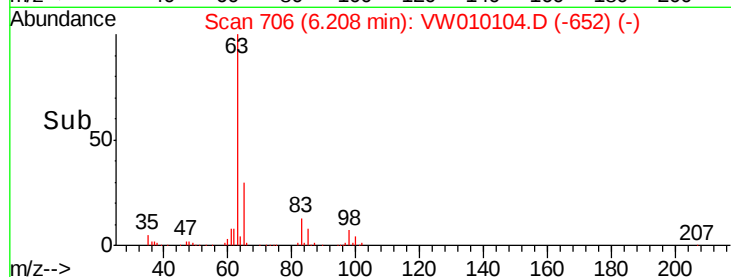
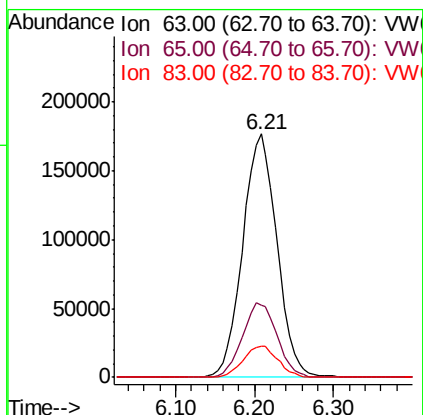
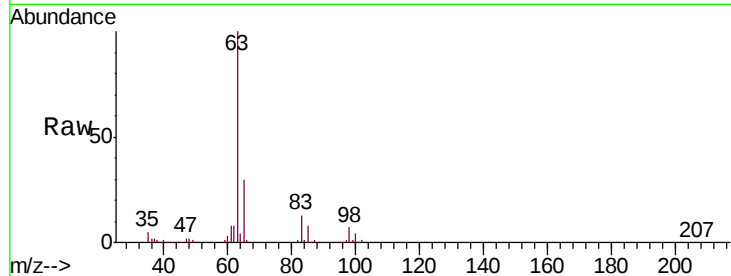




#19
 1,1-Dichloroethane
 Concen: 22.703 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. 0.00 min
 Lab File: VW010104.D
 Acq: 23 Apr 2019 19:28

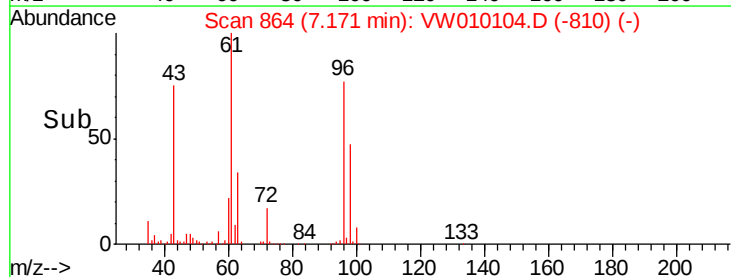
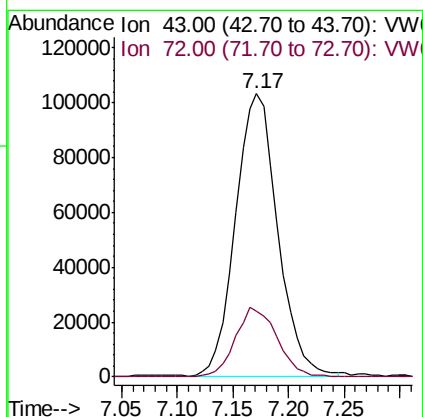
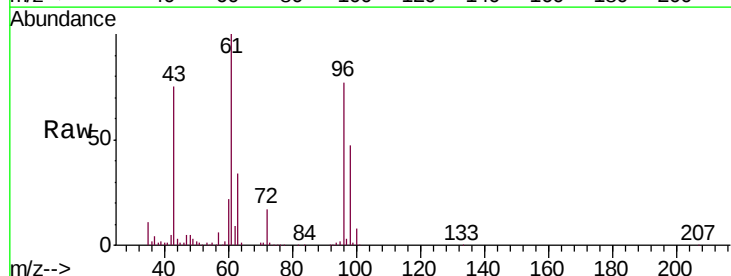
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

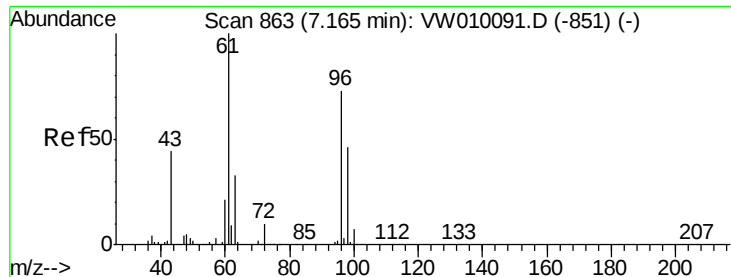
Tgt Ion: 63 Resp: 533332
 Ion Ratio Lower Upper
 63 100
 65 29.7 21.6 40.0
 83 12.8 9.0 16.6



#21
 2-Butanone
 Concen: 53.091 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VW010104.D
 Acq: 23 Apr 2019 19:28

Tgt Ion: 43 Resp: 272588
 Ion Ratio Lower Upper
 43 100
 72 24.3 11.9 35.7



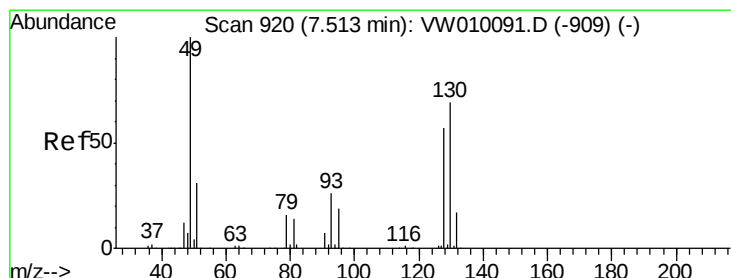
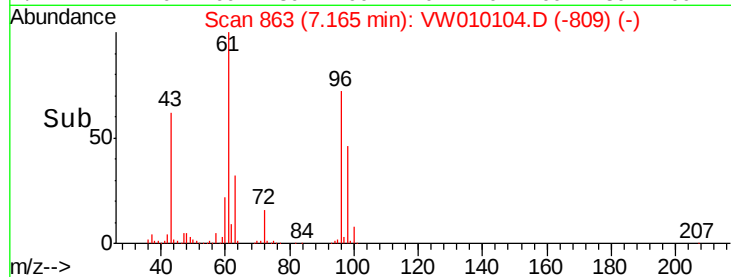
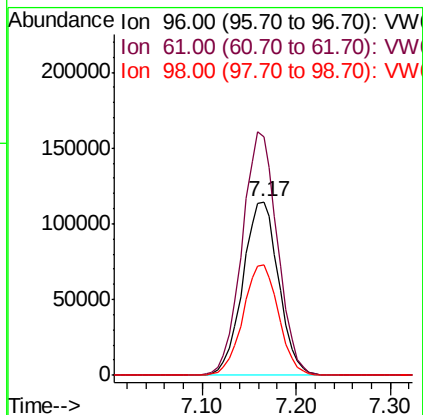
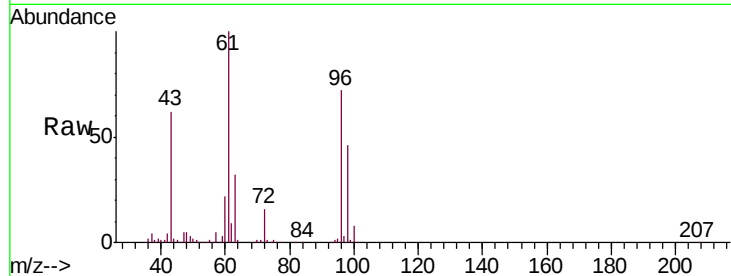


#22

cis-1,2-Dichloroethene
 Concen: 23.828 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW010104.D
 Acq: 23 Apr 2019 19:28

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

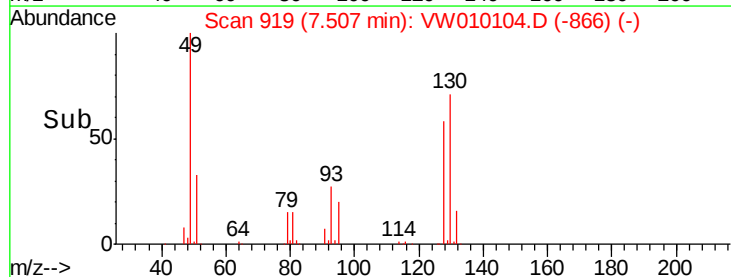
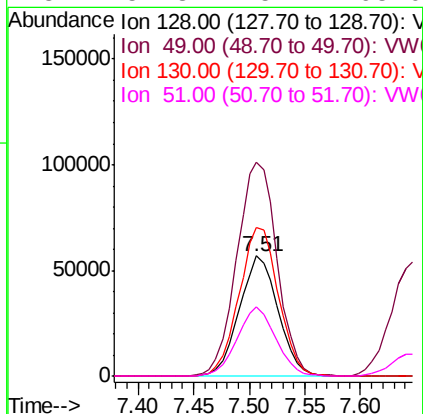
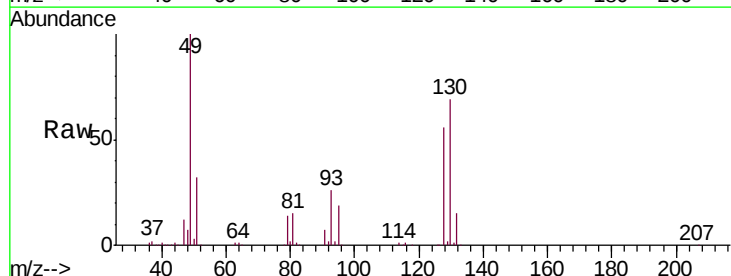
Tgt Ion: 96 Resp: 304764
 Ion Ratio Lower Upper
 96 100
 61 138.0 94.7 175.9
 98 63.8 42.8 79.6

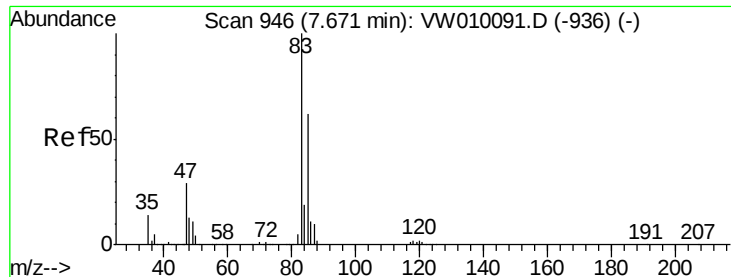


#23

Bromochloromethane
 Concen: 22.946 ug/L
 RT: 7.51 min Scan# 919
 Delta R.T. -0.01 min
 Lab File: VW010104.D
 Acq: 23 Apr 2019 19:28

Tgt Ion: 128 Resp: 136677
 Ion Ratio Lower Upper
 128 100
 49 178.0 132.2 245.4
 130 123.4 91.5 169.9
 51 57.3 45.4 68.0

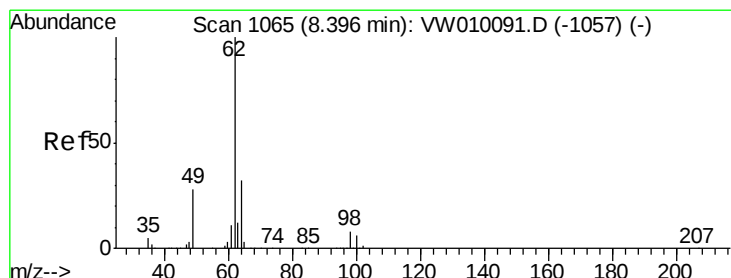
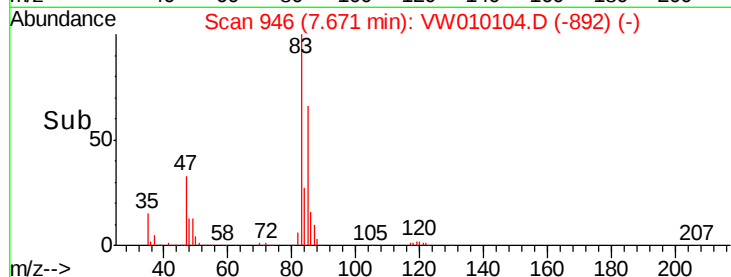
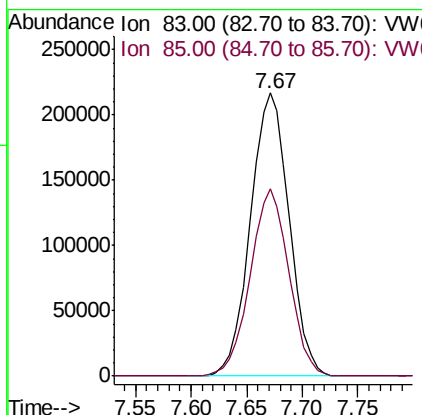
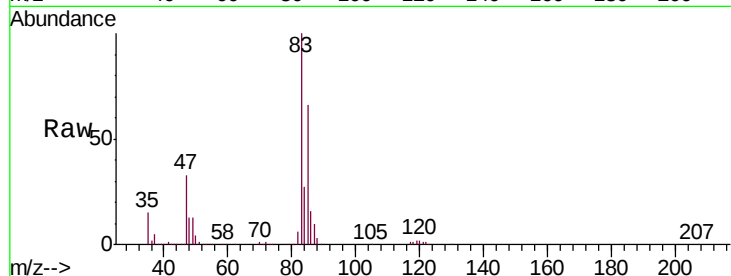




#25
Chloroform
Concen: 21.844 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW010104.D
Acq: 23 Apr 2019 19:28

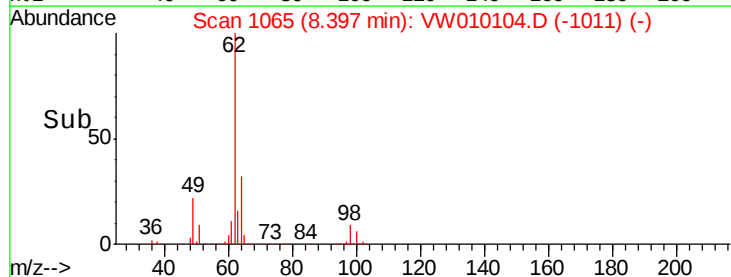
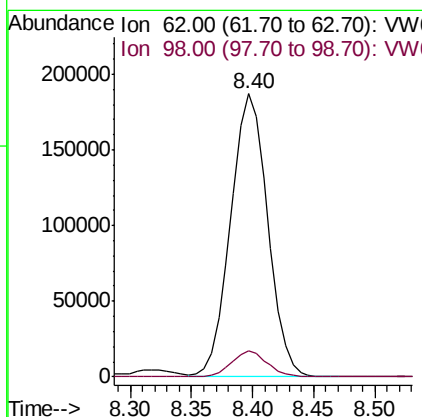
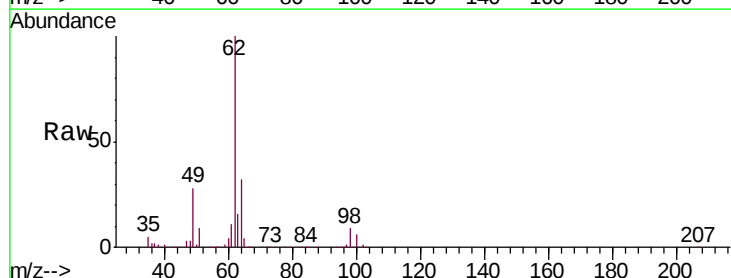
Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

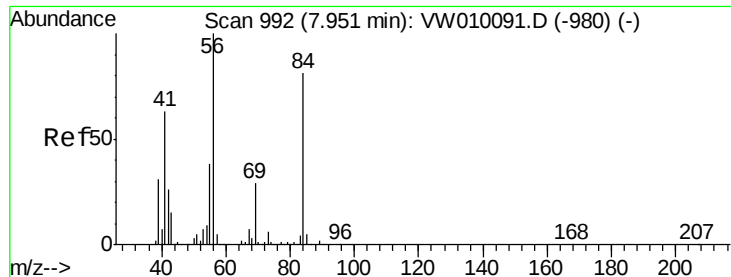
Tgt Ion: 83 Resp: 525079
Ion Ratio Lower Upper
83 100
85 66.2 45.5 84.5



#27
1,2-Dichloroethane
Concen: 21.302 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW010104.D
Acq: 23 Apr 2019 19:28

Tgt Ion: 62 Resp: 394221
Ion Ratio Lower Upper
62 100
98 9.1 6.6 10.0

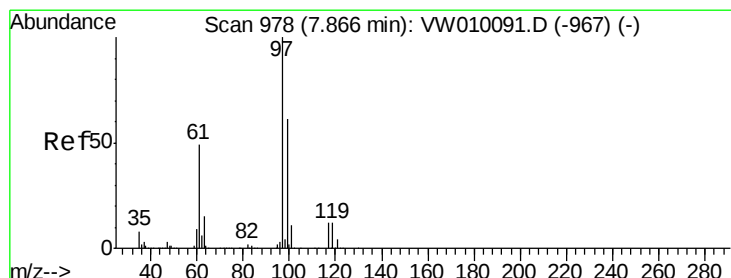
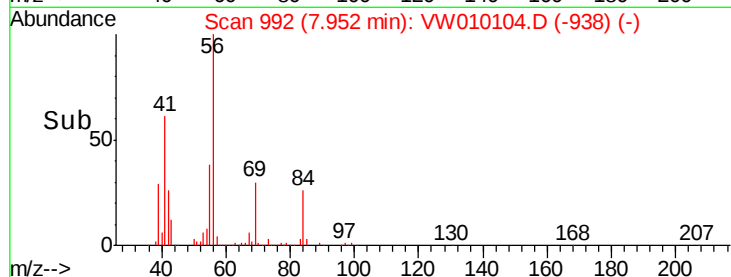
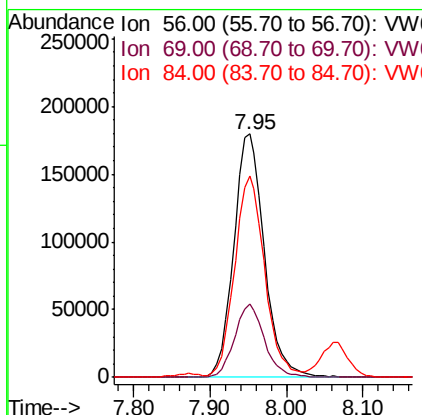
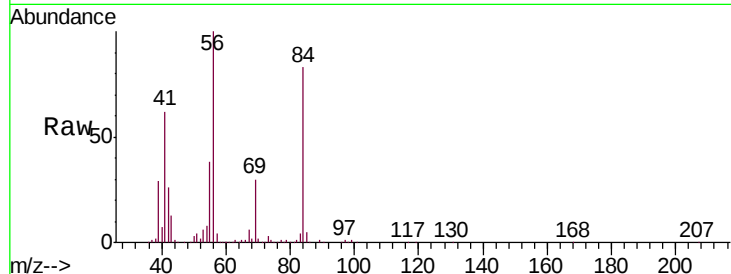




#30
Cyclohexane
Concen: 27.680 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW010104.D
Acq: 23 Apr 2019 19:28

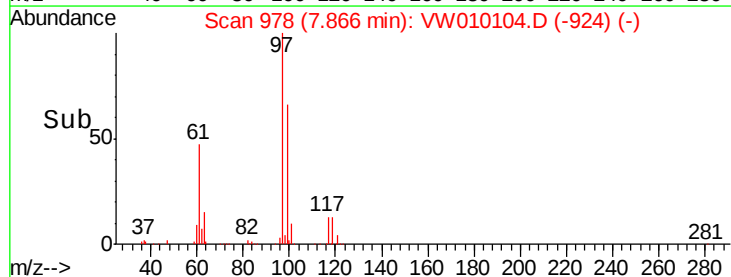
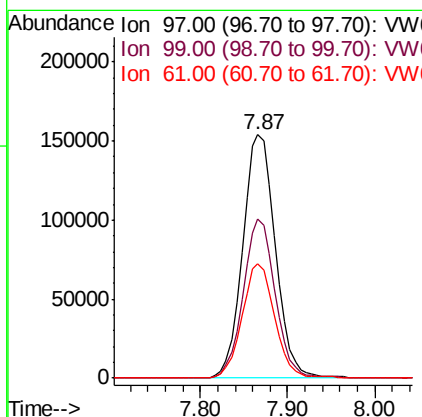
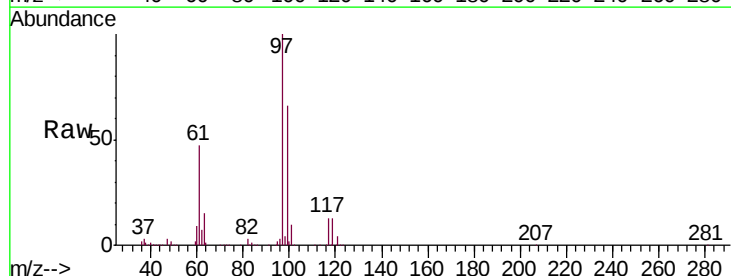
Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

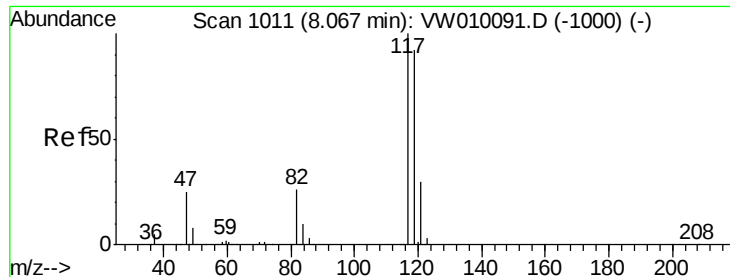
Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.6	23.4	35.0
84	81.5	65.5	98.3



#31
1,1,1-Trichloroethane
Concen: 24.025 ug/L
RT: 7.87 min Scan# 978
Delta R.T. 0.00 min
Lab File: VW010104.D
Acq: 23 Apr 2019 19:28

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	50.8	76.2
61	46.5	39.3	58.9





#32

Carbon tetrachloride

Concen: 24.176 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

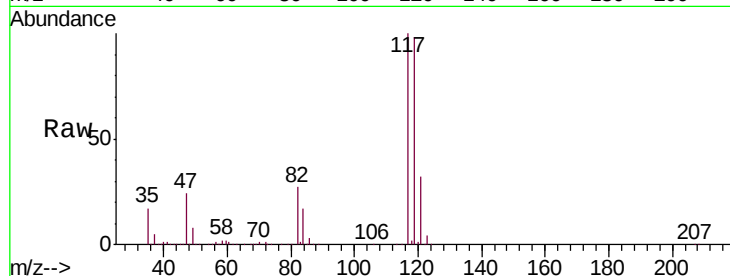
VSTD02512

Tgt Ion:117 Resp: 393800

Ion Ratio Lower Upper

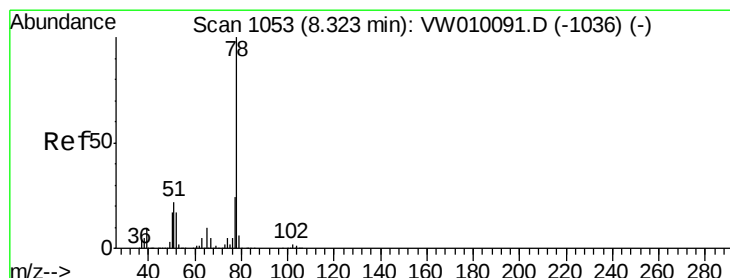
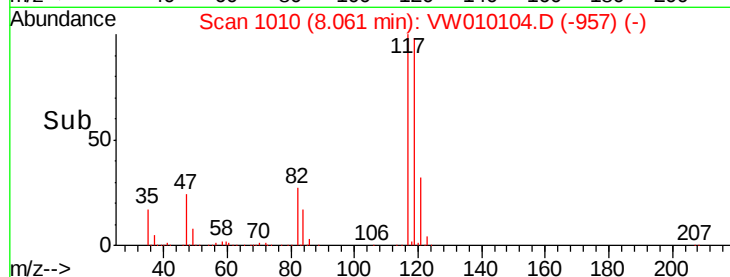
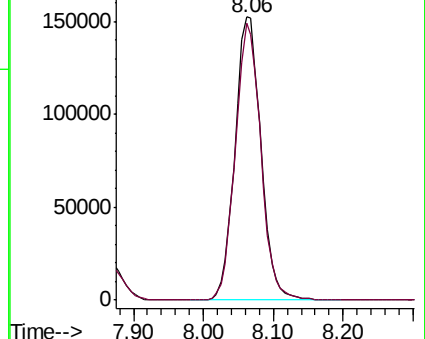
117 100

119 95.9 76.8 115.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.517 ug/L

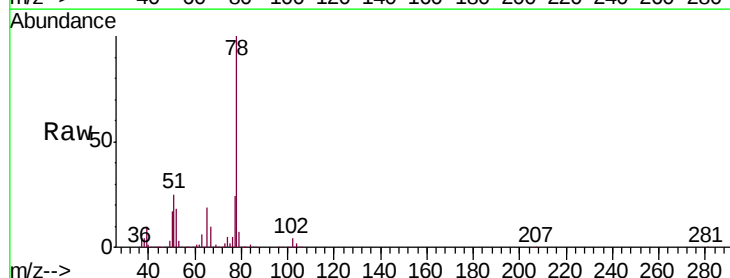
RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

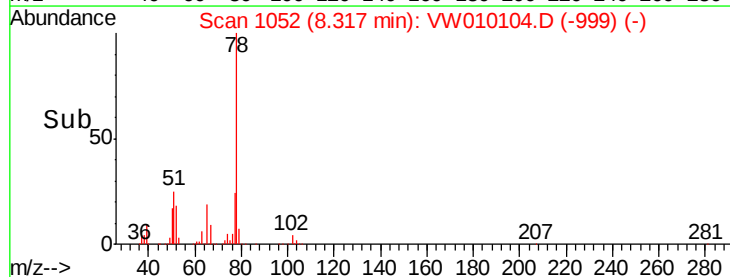
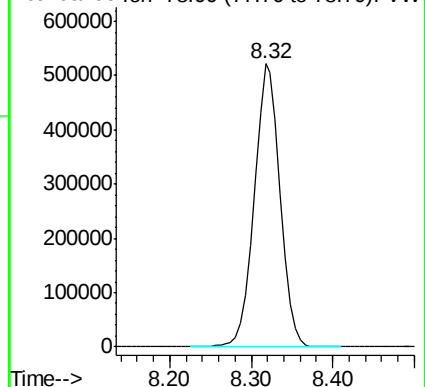
Lab File: VW010104.D

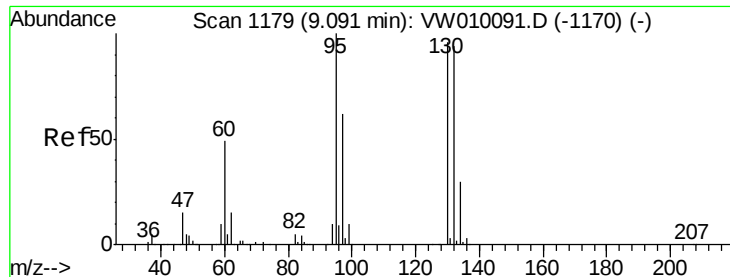
Acq: 23 Apr 2019 19:28

Tgt Ion: 78 Resp: 1147352



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 24.674 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

Tgt Ion: 95 Resp: 300227

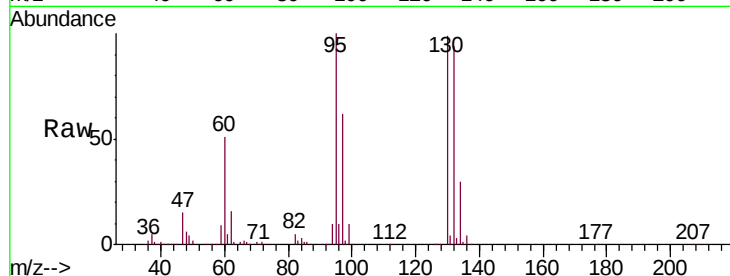
Ion Ratio Lower Upper

95 100

97 63.3 45.3 84.1

132 95.0 65.6 121.8

130 99.5 68.5 127.3

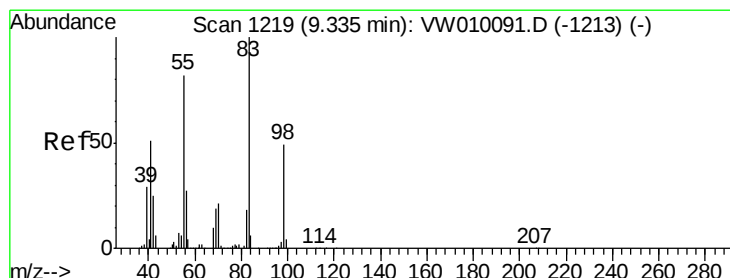
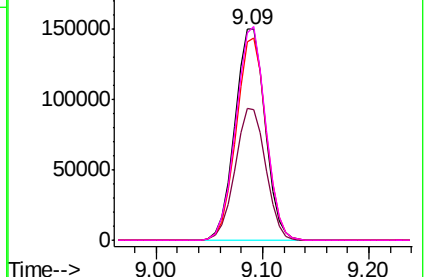
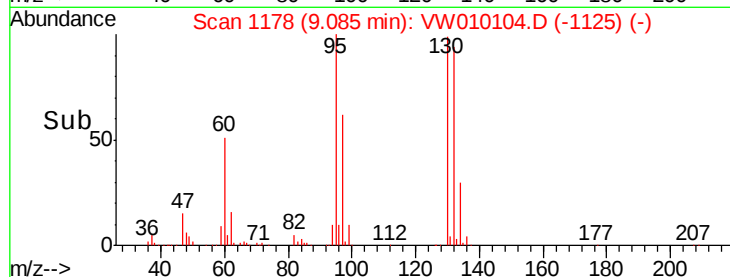


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW



#36

Methylcyclohexane

Concen: 26.415 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

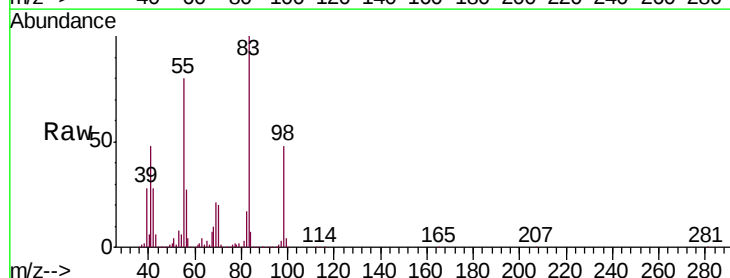
Tgt Ion: 83 Resp: 516404

Ion Ratio Lower Upper

83 100

55 82.1 68.4 102.6

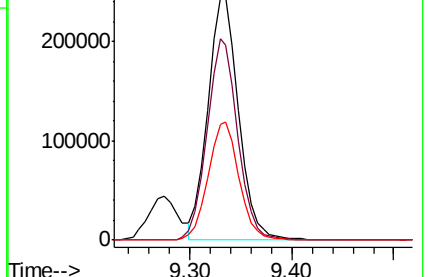
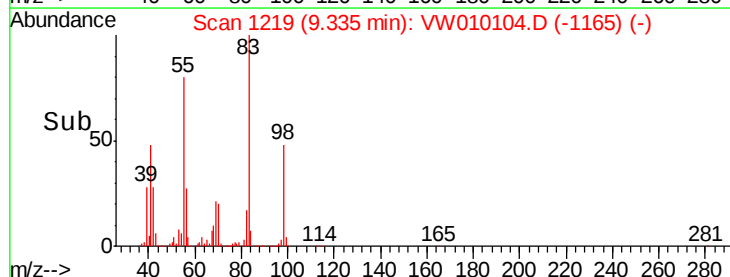
98 49.0 40.0 60.0

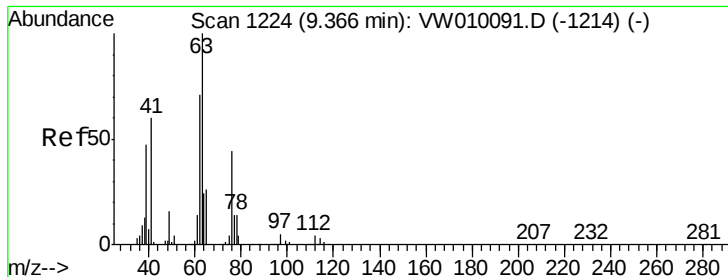


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

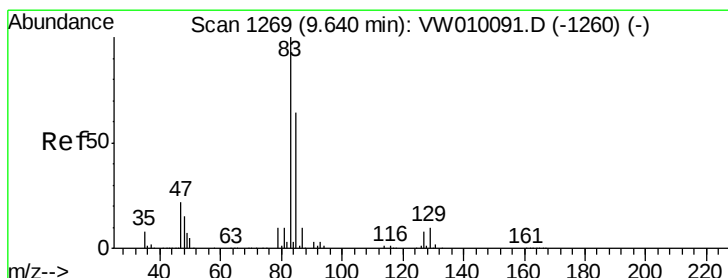
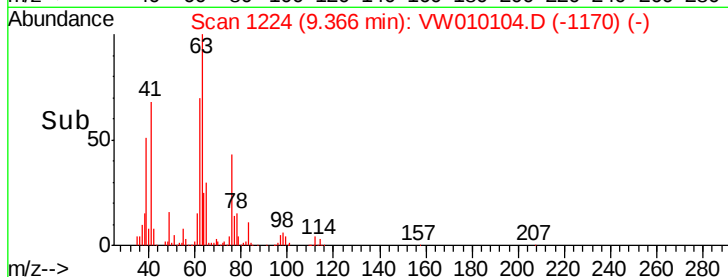
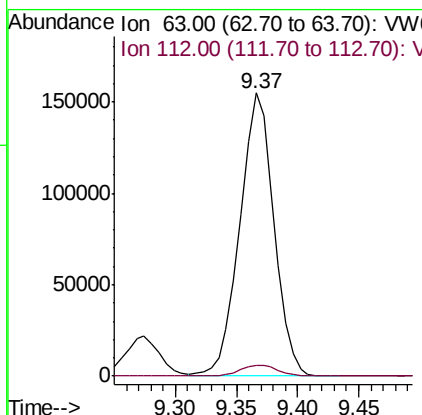
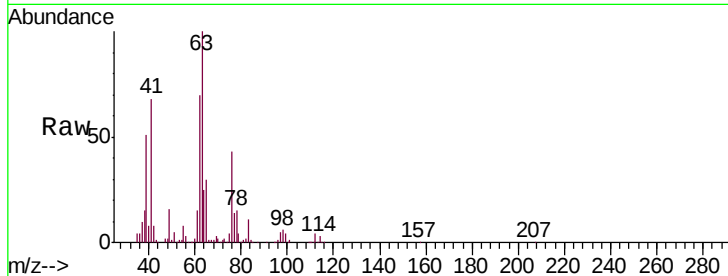




#40
 1,2-Dichloropropane
 Concen: 24.275 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW010104.D
 Acq: 23 Apr 2019 19:28

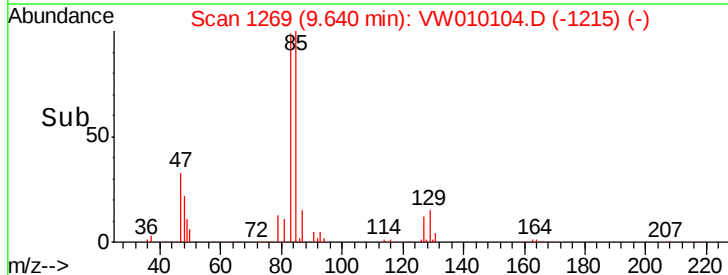
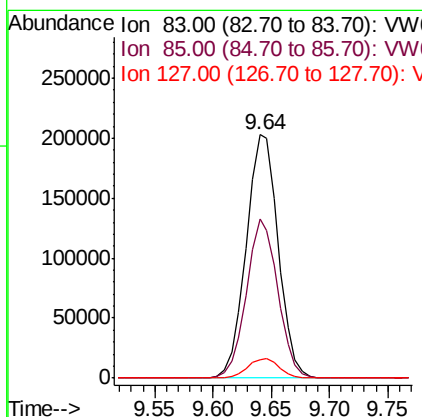
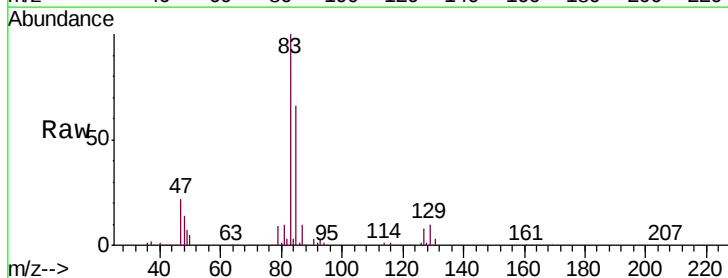
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

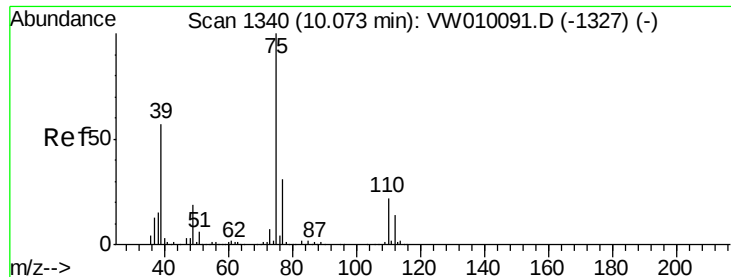
Tgt Ion: 63 Resp: 300437
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.4 5.2



#41
 Bromodichloromethane
 Concen: 23.061 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW010104.D
 Acq: 23 Apr 2019 19:28

Tgt Ion: 83 Resp: 389660
 Ion Ratio Lower Upper
 83 100
 85 65.6 45.1 83.9
 127 7.6 6.1 9.1





#42

cis-1,3-Dichloropropene

Concen: 25.900 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

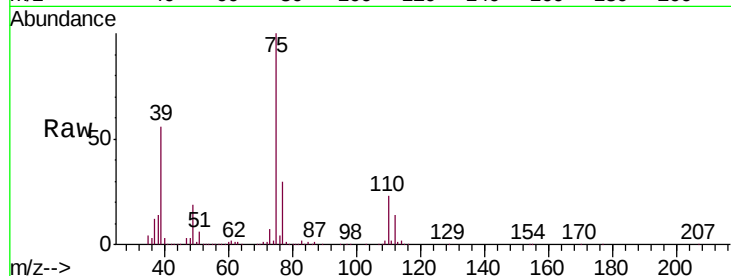
VSTD02512

Tgt Ion: 75 Resp: 494192

Ion Ratio Lower Upper

75 100

77 30.3 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.07

250000

200000

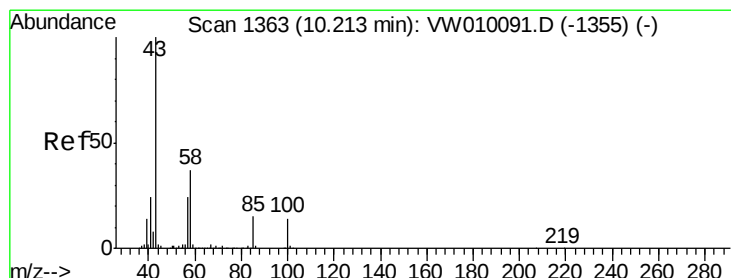
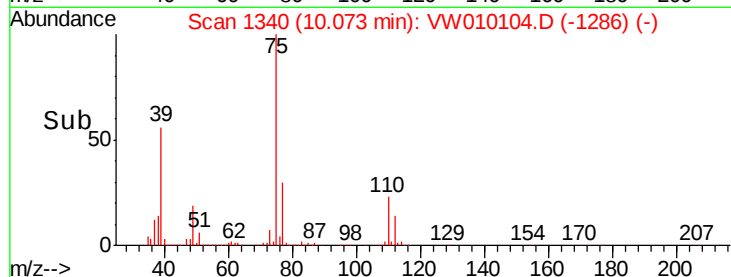
150000

100000

50000

0

Time-->



#43

4-Methyl-2-pentanone

Concen: 55.355 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

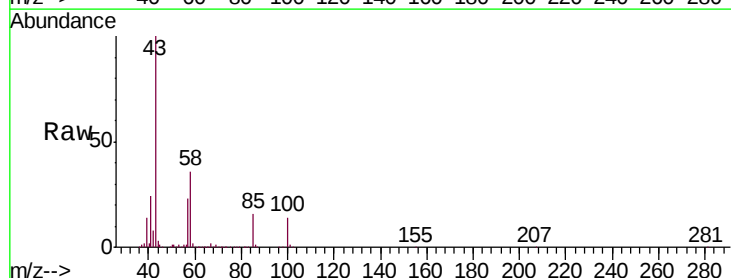
Tgt Ion: 43 Resp: 564240

Ion Ratio Lower Upper

43 100

58 37.0 27.9 41.9

100 14.1 10.5 15.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW

500000

400000

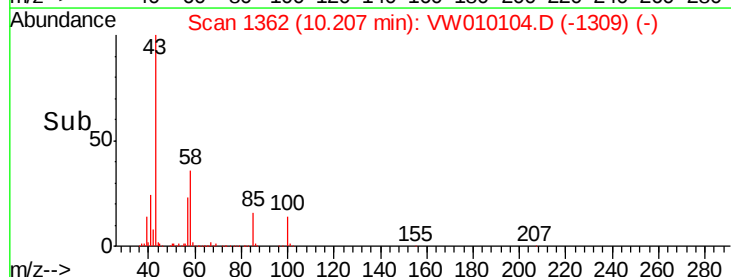
300000

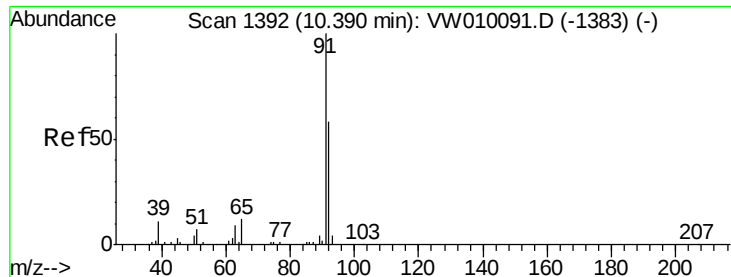
200000

100000

0

Time-->





#44

Toluene

Concen: 24.883 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

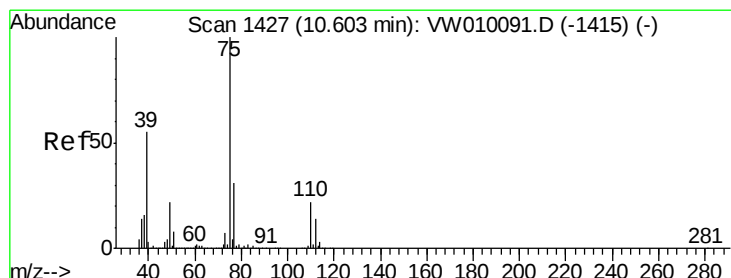
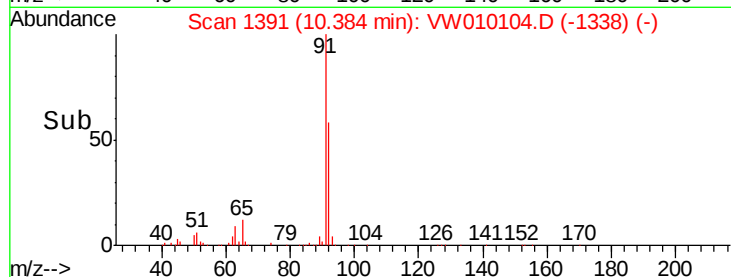
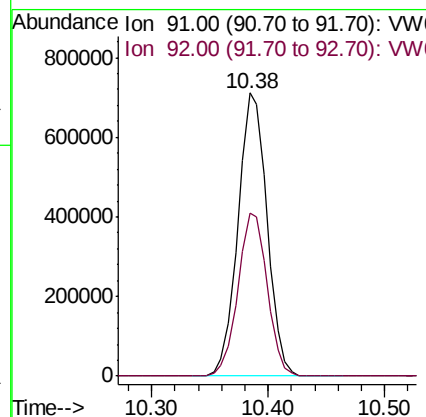
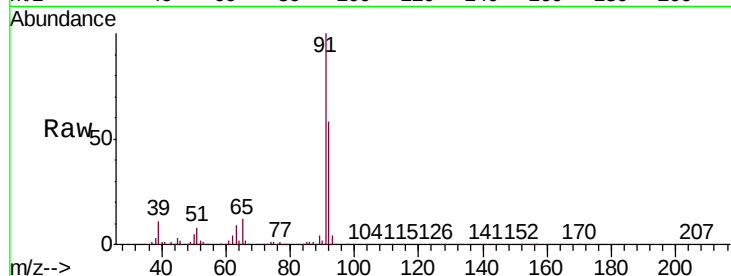
VSTD02512

Tgt Ion: 91 Resp: 1235349

Ion Ratio Lower Upper

91 100

92 57.7 39.8 74.0



#45

trans-1,3-Dichloropropene

Concen: 24.809 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW010104.D

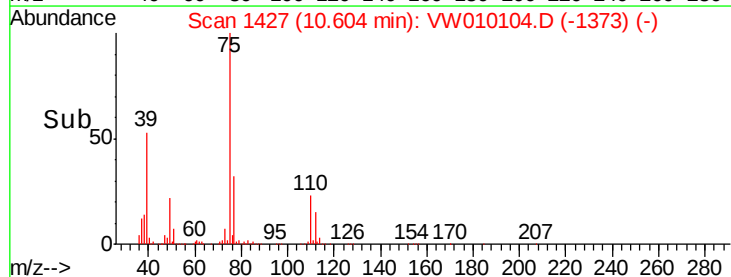
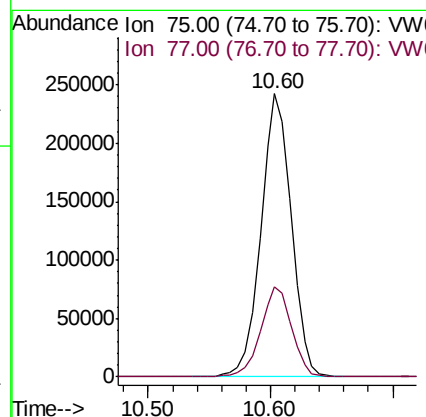
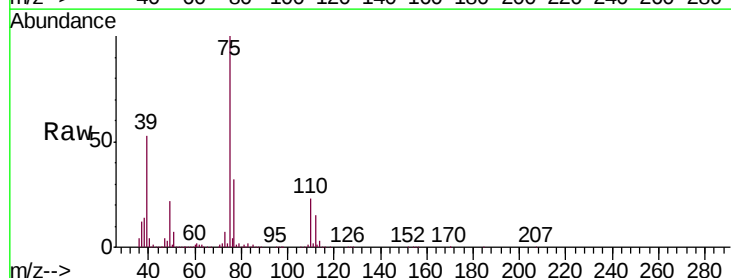
Acq: 23 Apr 2019 19:28

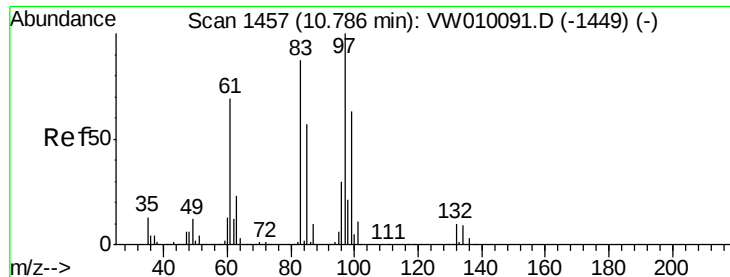
Tgt Ion: 75 Resp: 417974

Ion Ratio Lower Upper

75 100

77 31.9 22.0 41.0





#46

1,1,2-Trichloroethane

Concen: 24.032 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

Tgt Ion: 97 Resp: 231961

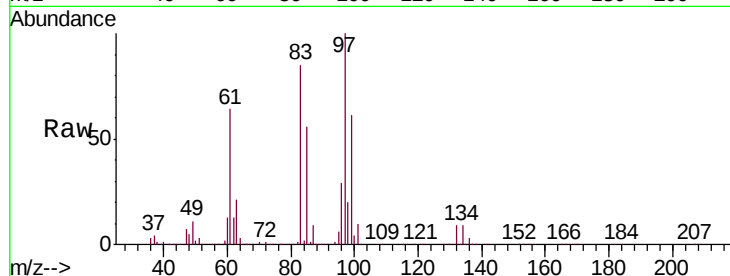
Ion Ratio Lower Upper

97 100

83 84.9 59.1 109.7

85 56.0 39.3 73.1

99 61.2 43.6 81.0



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

200000

150000

100000

50000

0

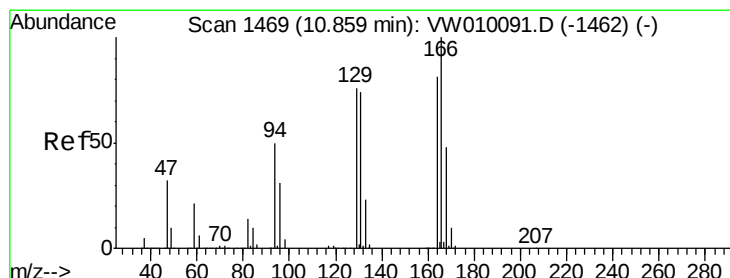
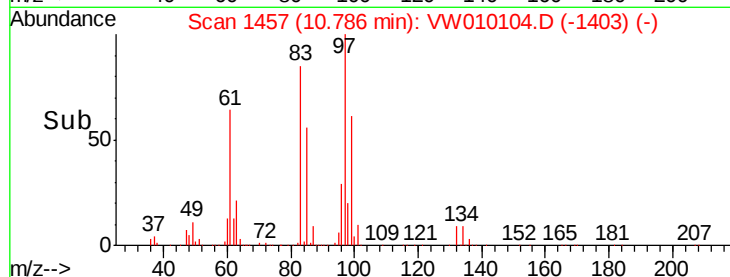
10.79

10.75

10.80

10.85

Time-->



#47

Tetrachloroethene

Concen: 24.257 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

Tgt Ion: 164 Resp: 230551

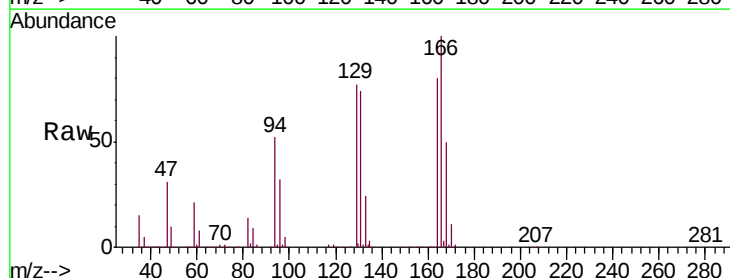
Ion Ratio Lower Upper

164 100

129 96.2 66.8 124.2

131 92.5 65.2 121.0

166 124.9 89.0 165.2



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

250000

200000

150000

100000

50000

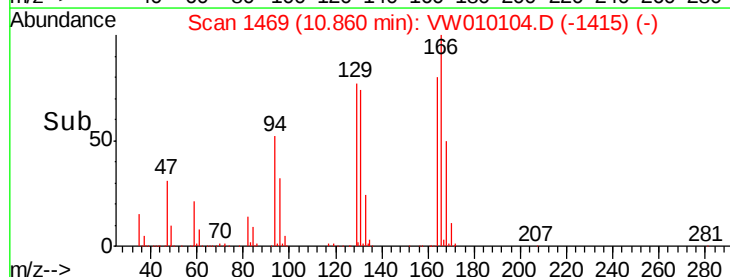
0

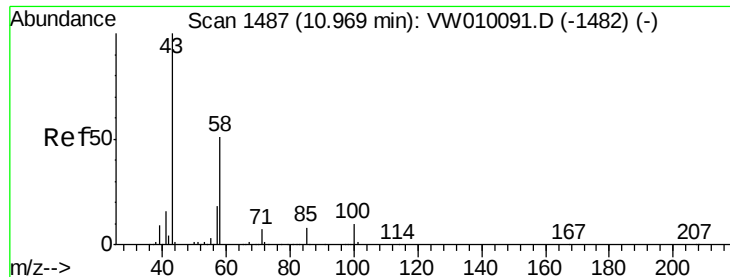
10.86

10.80

10.90

Time-->





#49

2-Hexanone

Concen: 56.931 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

Tgt Ion: 43 Resp: 412267

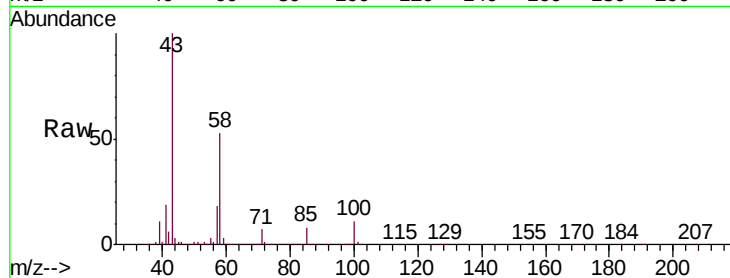
Ion Ratio Lower Upper

43 100

58 51.5 39.8 59.8

57 18.2 14.1 21.1

100 11.1 8.4 12.6

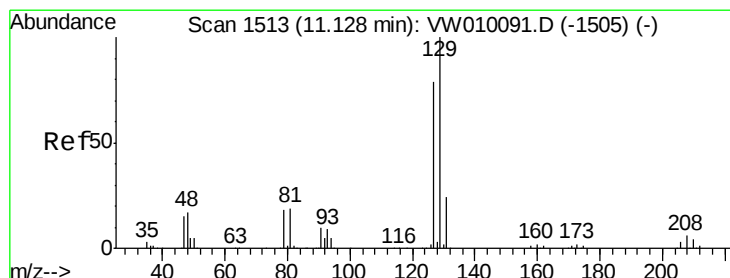
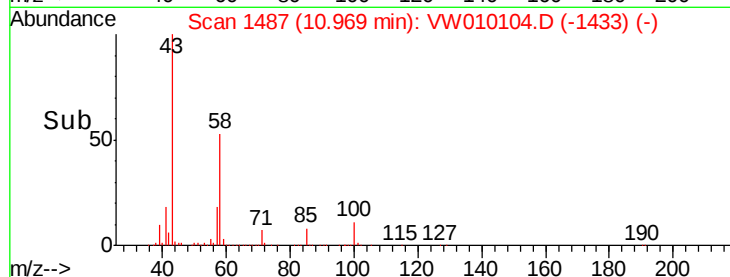
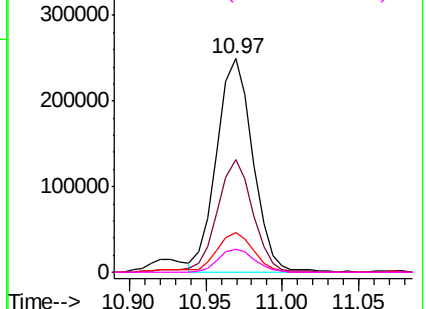


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 23.667 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW010104.D

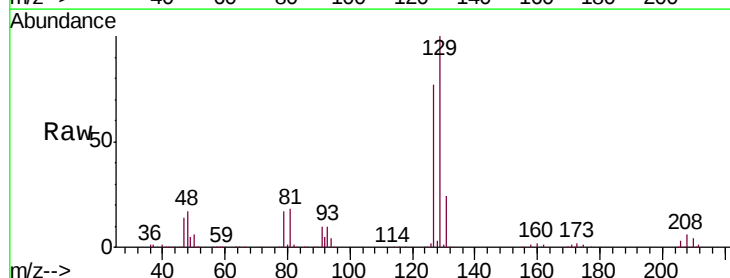
Acq: 23 Apr 2019 19:28

Tgt Ion: 129 Resp: 271160

Ion Ratio Lower Upper

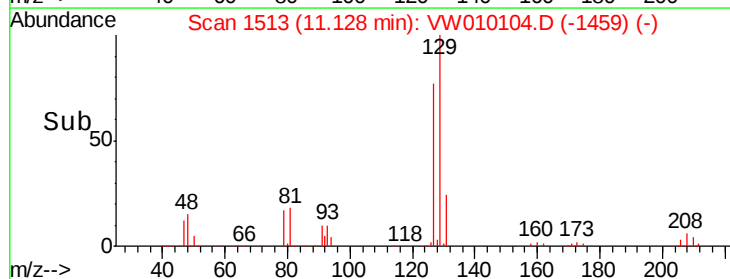
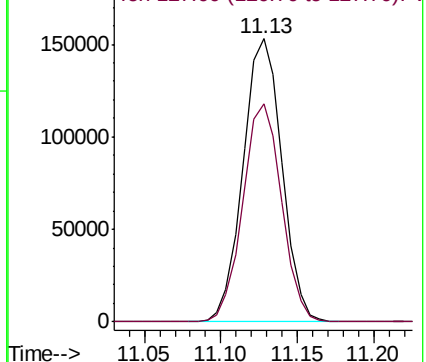
129 100

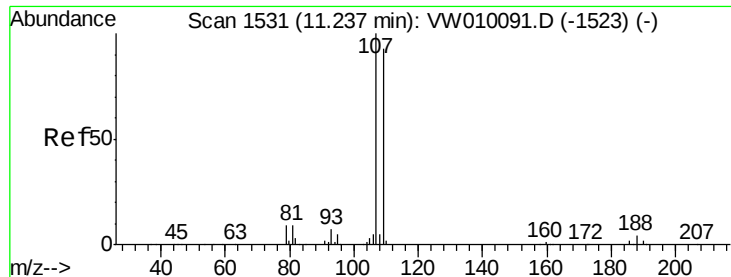
127 76.9 53.5 99.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

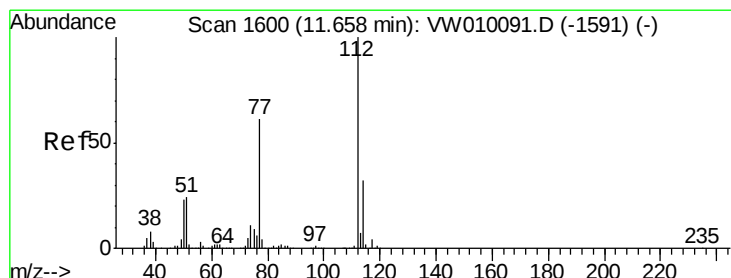
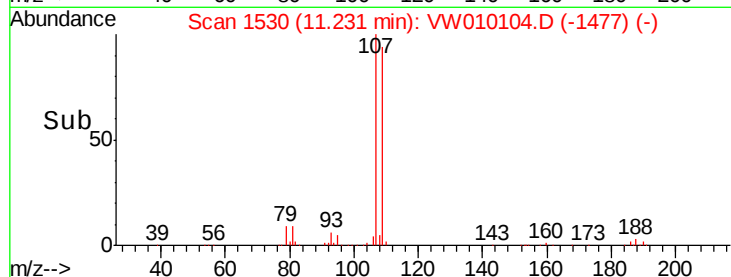
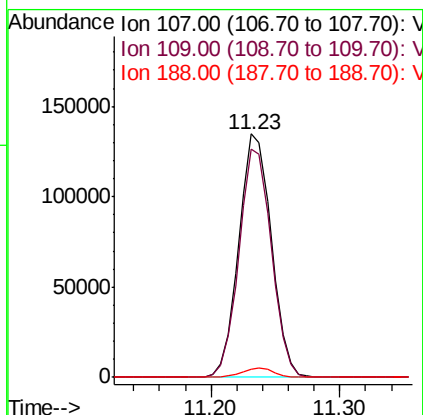
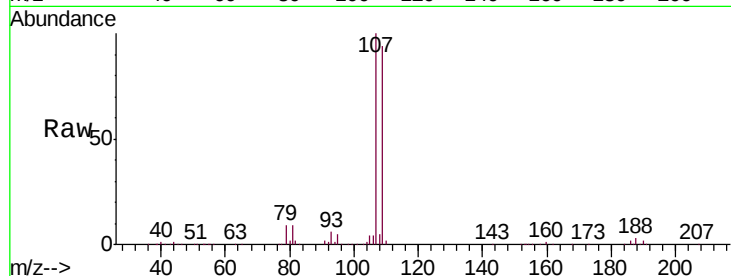




#51
 1,2-Dibromoethane
 Concen: 24.878 ug/L
 RT: 11.23 min Scan# 1530
 Delta R.T. -0.01 min
 Lab File: VW010104.D
 Acq: 23 Apr 2019 19:28

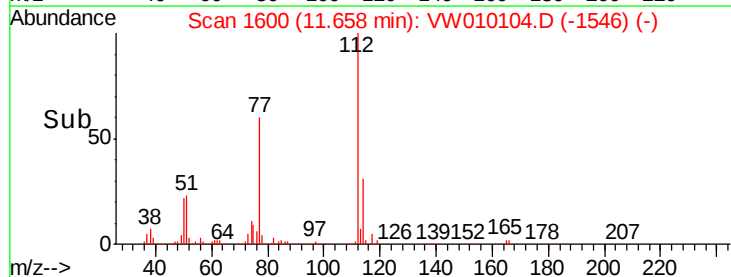
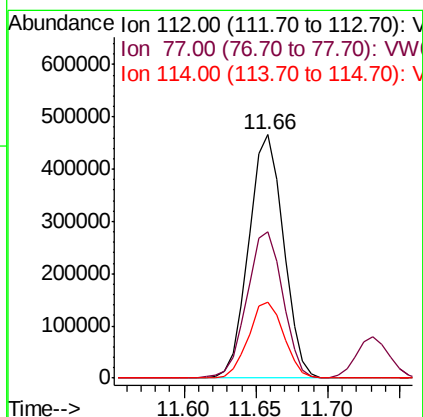
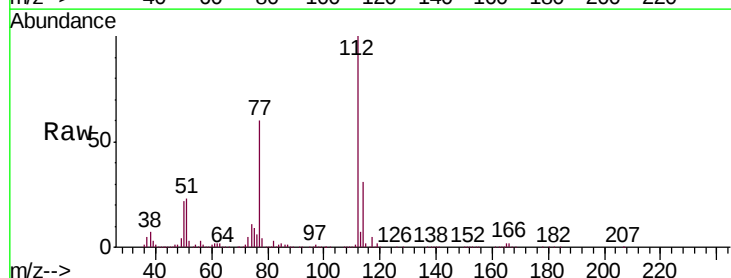
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

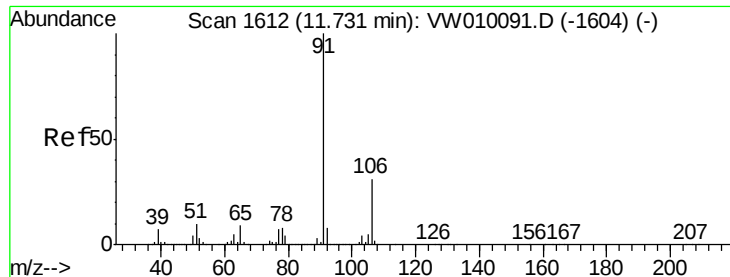
Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.7	66.4	123.4
188	3.3	2.7	4.1



#52
 Chlorobenzene
 Concen: 23.985 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. 0.00 min
 Lab File: VW010104.D
 Acq: 23 Apr 2019 19:28

Tgt Ion	Ratio	Lower	Upper
112	100		
77	60.4	50.2	75.4
114	31.3	22.7	42.3





#53

Ethylbenzene

Concen: 25.443 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

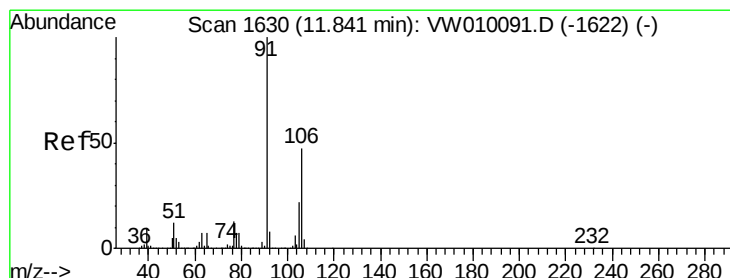
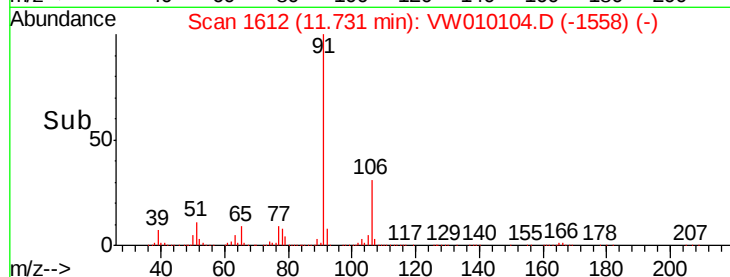
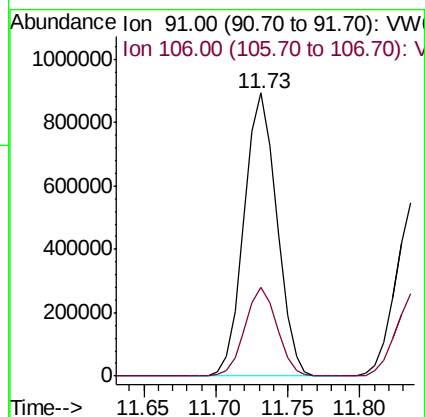
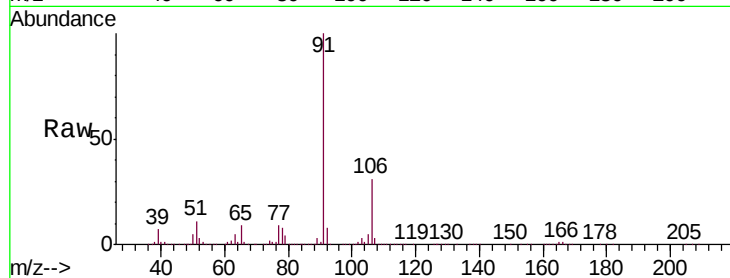
VSTD02512

Tgt Ion: 91 Resp: 1411870

Ion Ratio Lower Upper

91 100

106 31.3 21.8 40.4



#54

m,p-Xylene

Concen: 25.783 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW010104.D

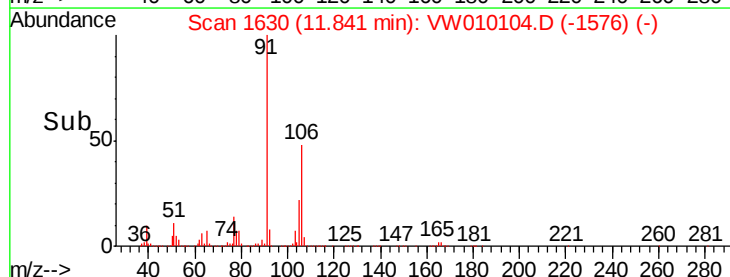
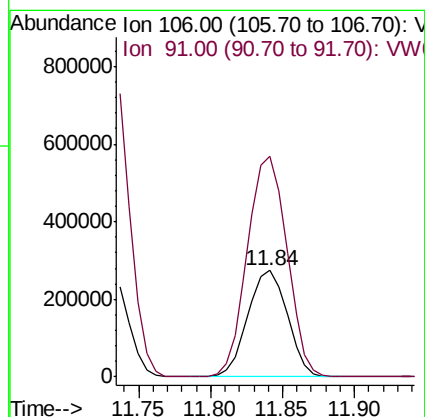
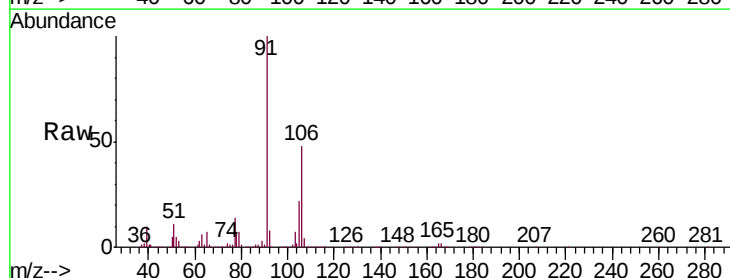
Acq: 23 Apr 2019 19:28

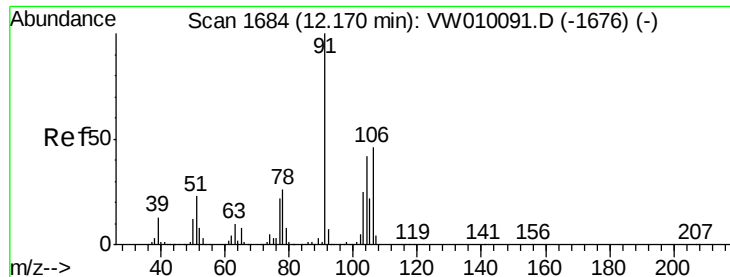
Tgt Ion: 106 Resp: 523328

Ion Ratio Lower Upper

106 100

91 206.7 143.4 266.2





#55

o-xylene

Concen: 25.900 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.01 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

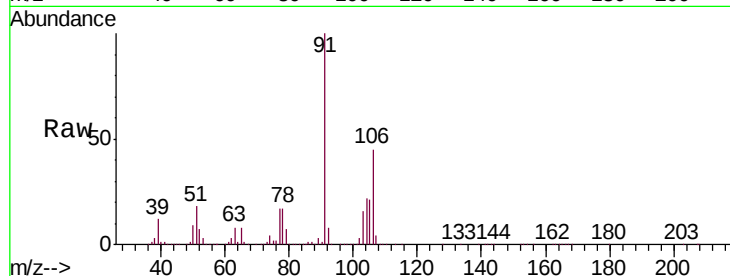
VSTD02512

Tgt Ion:106 Resp: 504206

Ion Ratio Lower Upper

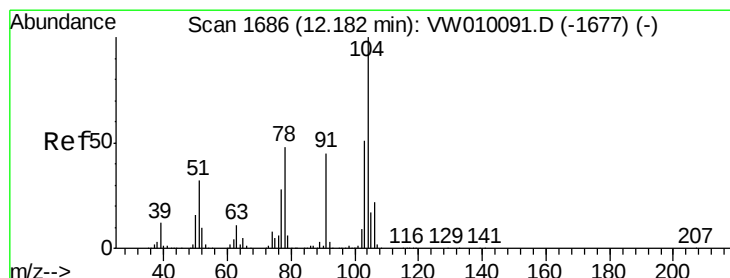
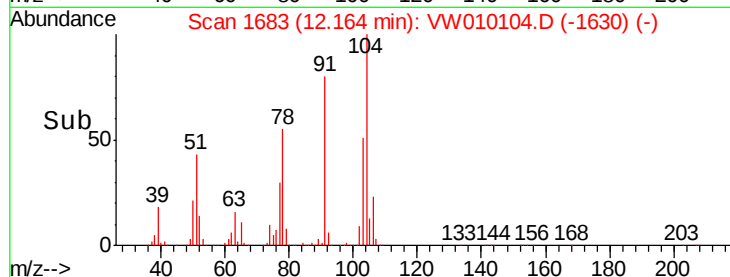
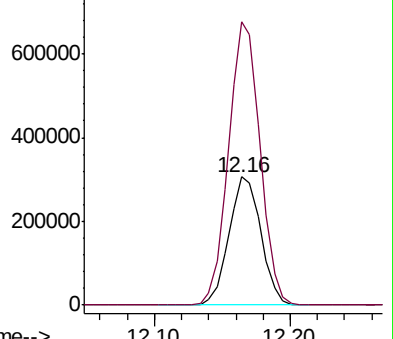
106 100

91 220.9 152.2 282.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 25.749 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW010104.D

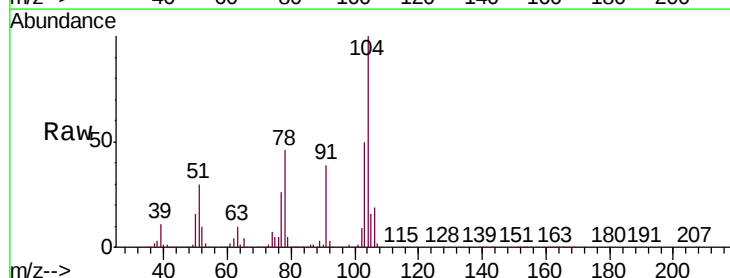
Acq: 23 Apr 2019 19:28

Tgt Ion:104 Resp: 877528

Ion Ratio Lower Upper

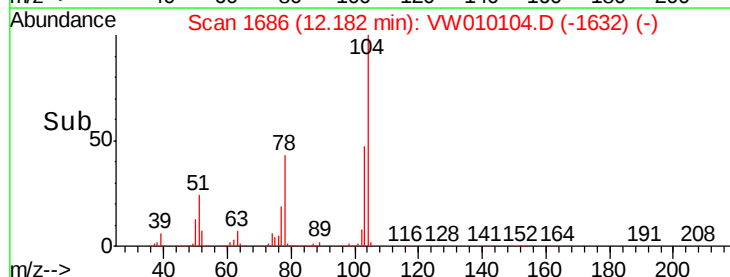
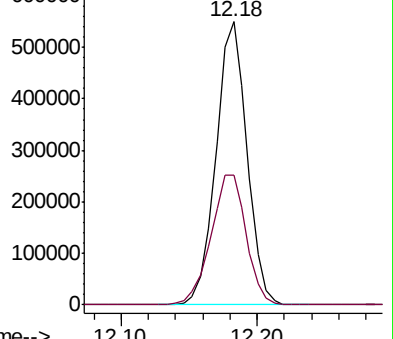
104 100

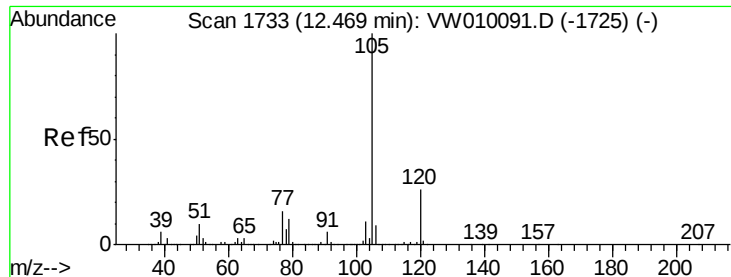
78 45.9 32.7 60.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 26.405 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.01 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

Instrument :

MSVOA_W

ClientSampled :

VSTD02512

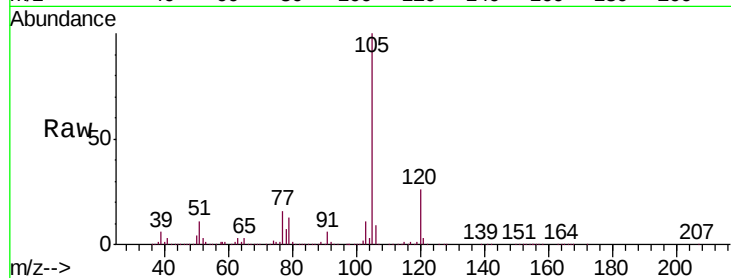
Tgt Ion: 105 Resp: 1369174

Ion Ratio Lower Upper

105 100

120 26.0 20.6 30.8

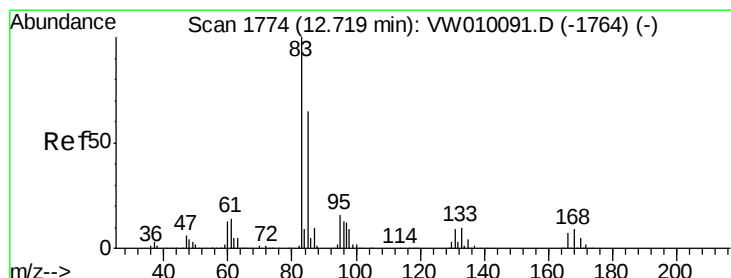
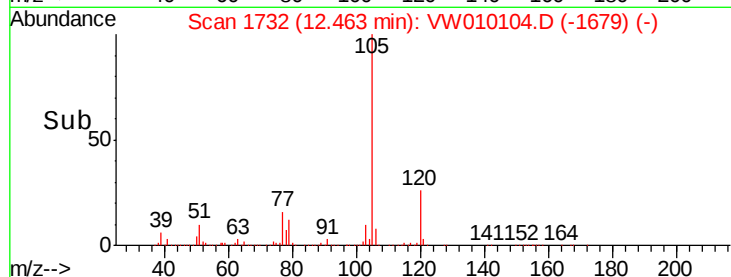
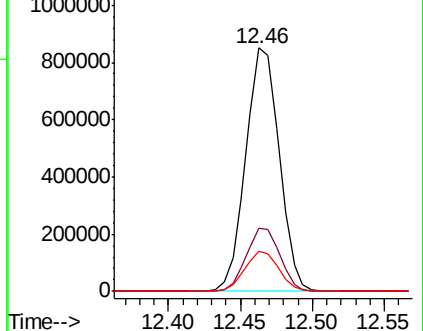
77 16.4 13.4 20.2



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: 24.718 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

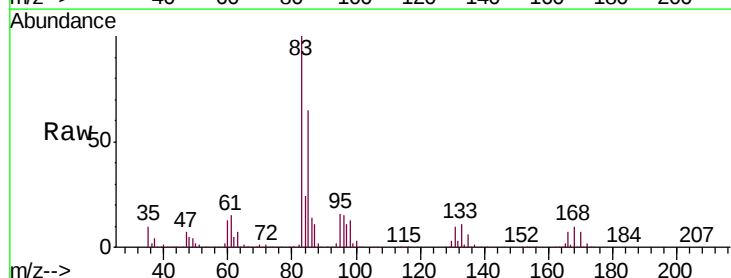
Tgt Ion: 83 Resp: 313864

Ion Ratio Lower Upper

83 100

85 64.6 44.1 81.9

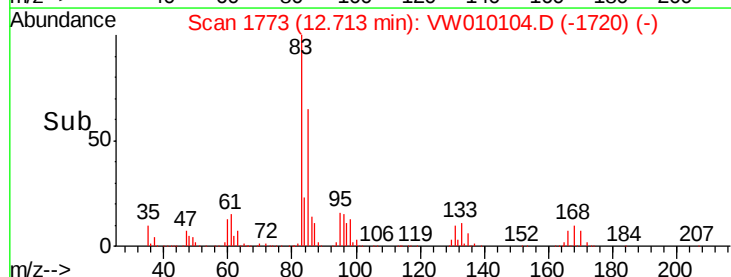
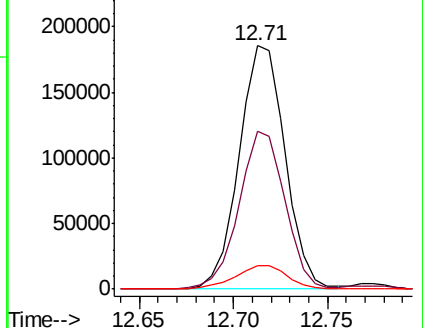
131 9.5 8.3 12.5

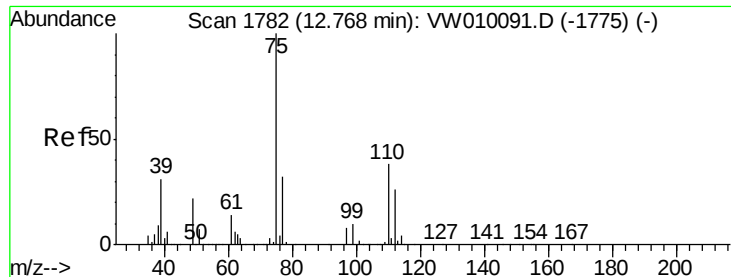


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 24.712 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

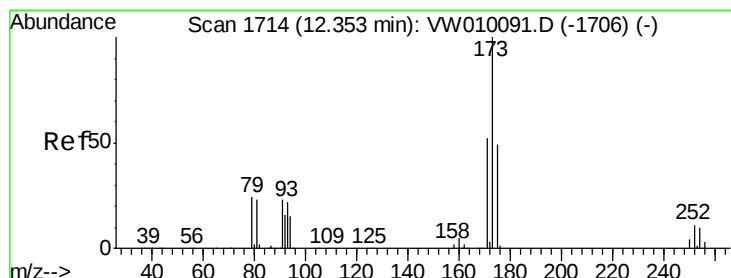
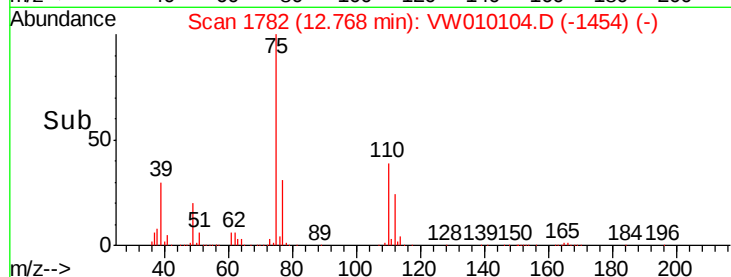
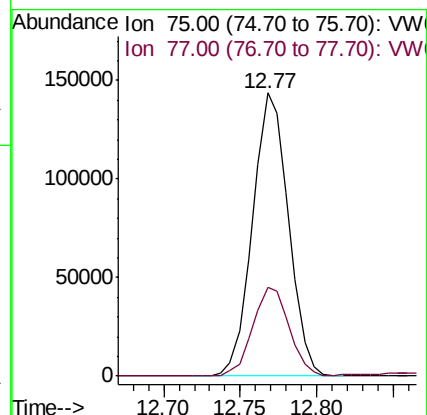
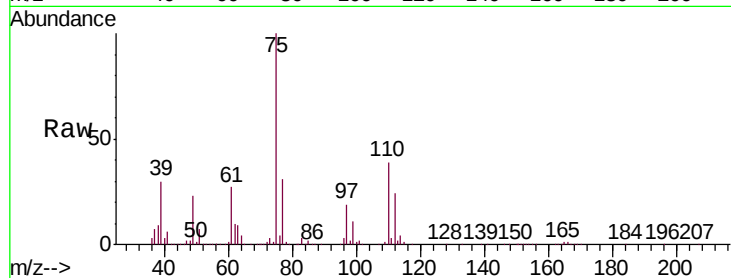
VSTD02512

Tgt Ion: 75 Resp: 234827

Ion Ratio Lower Upper

75 100

77 31.6 25.8 38.6



#62

Bromoform

Concen: 23.596 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

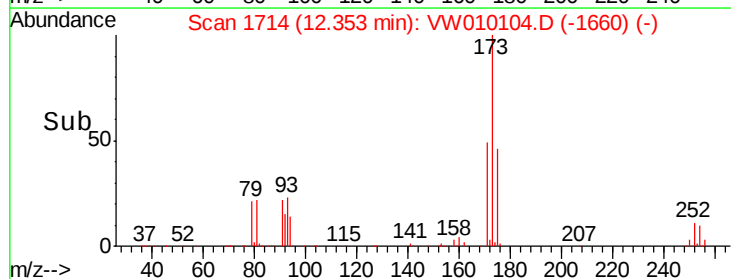
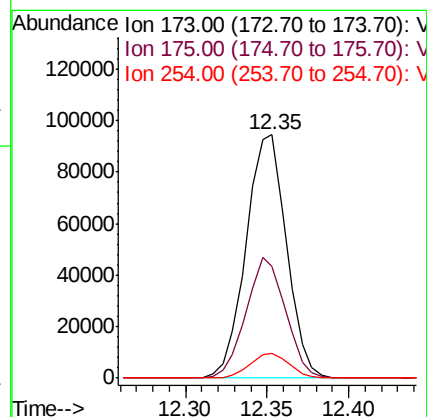
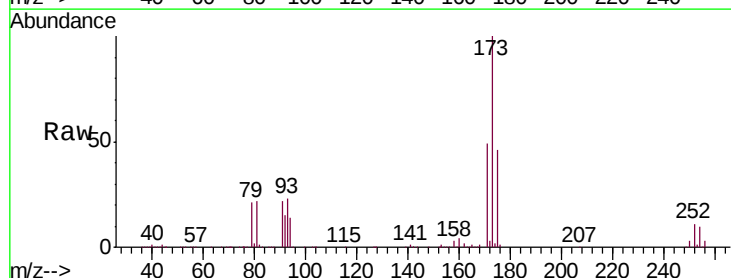
Tgt Ion: 173 Resp: 163244

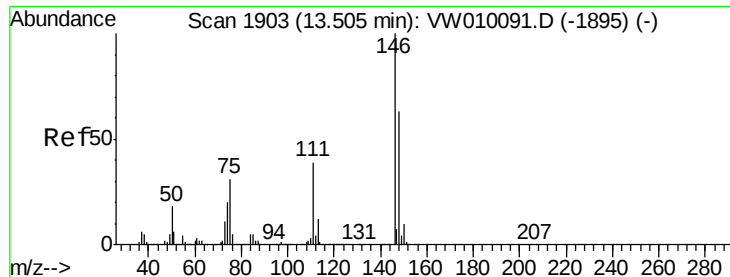
Ion Ratio Lower Upper

173 100

175 48.3 38.4 57.6

254 10.1 7.7 11.5

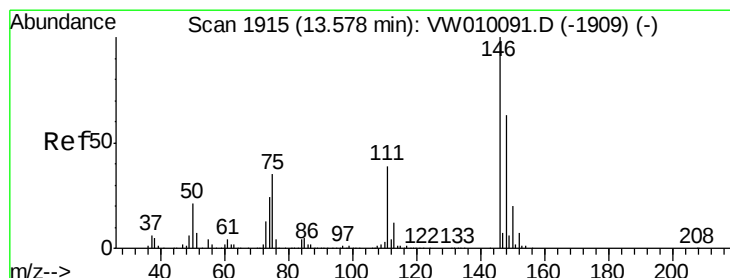
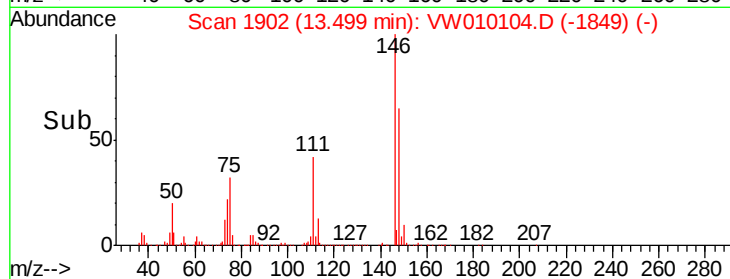
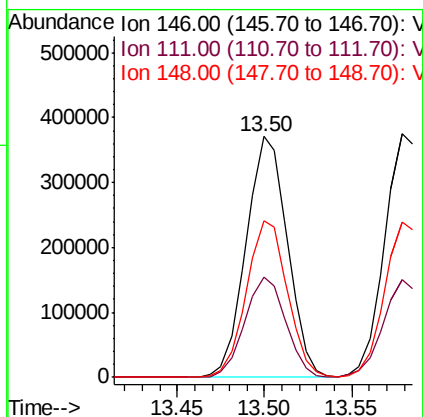
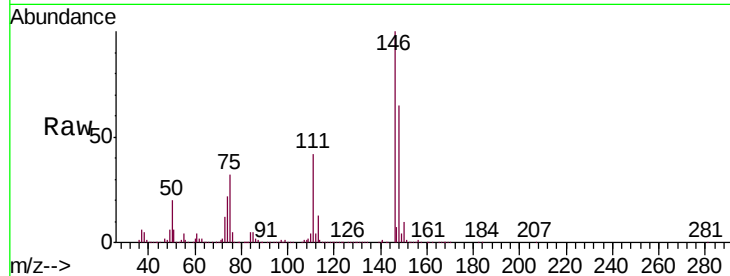




#63
 1,3-Dichlorobenzene
 Concen: 25.555 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.01 min
 Lab File: VW010104.D
 Acq: 23 Apr 2019 19:28

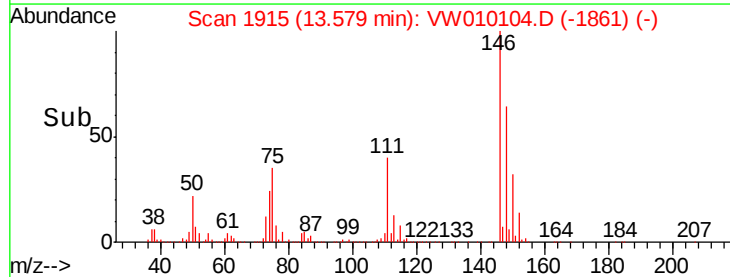
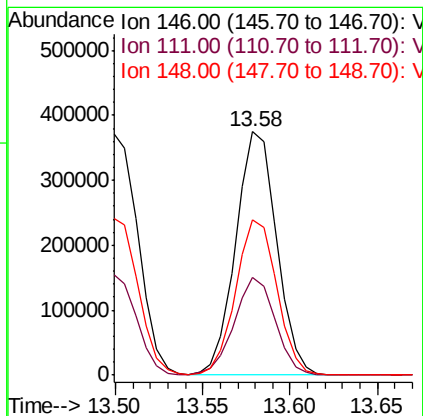
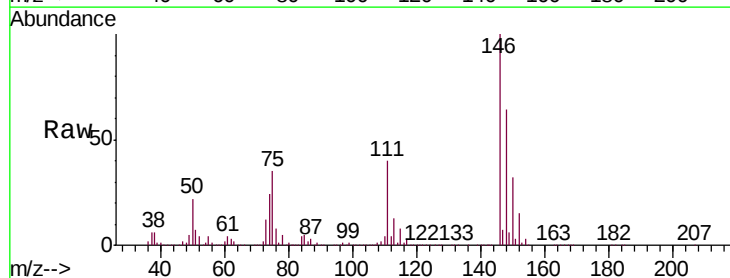
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

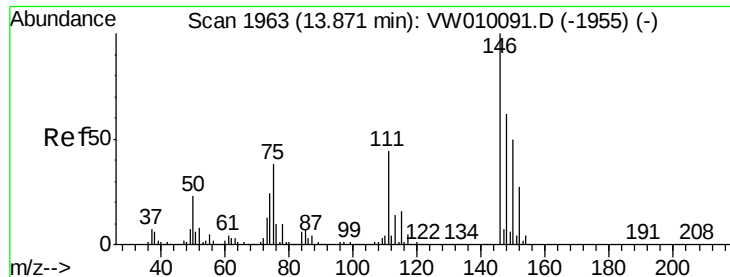
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.8	29.3	54.3
148	65.3	44.1	81.9



#64
 1,4-Dichlorobenzene
 Concen: 23.890 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW010104.D
 Acq: 23 Apr 2019 19:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	28.0	52.0
148	63.7	44.1	81.9

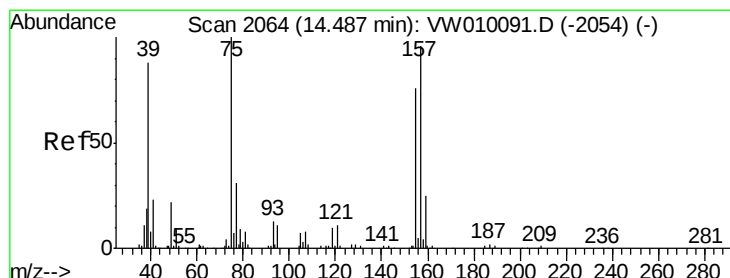
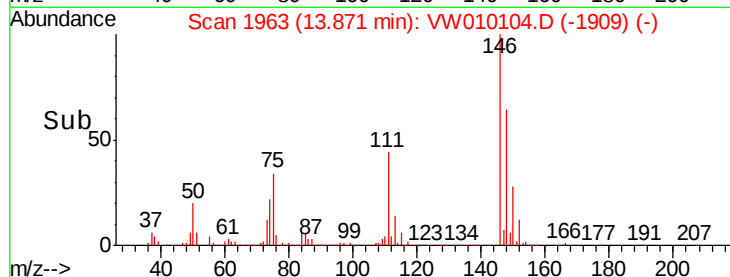
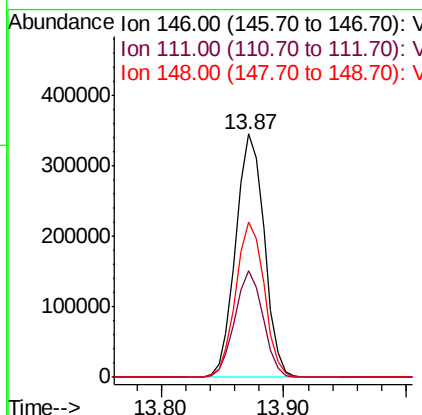
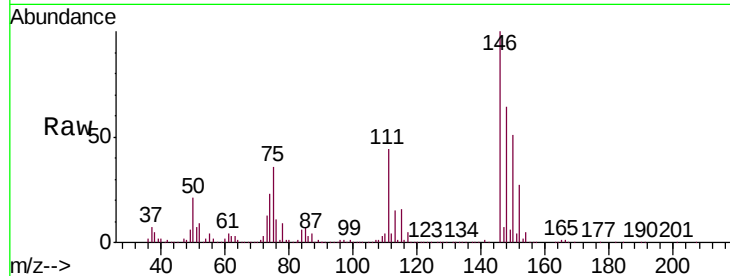




#65
 1,2-Dichlorobenzene
 Concen: 23.941 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW010104.D
 Acq: 23 Apr 2019 19:28

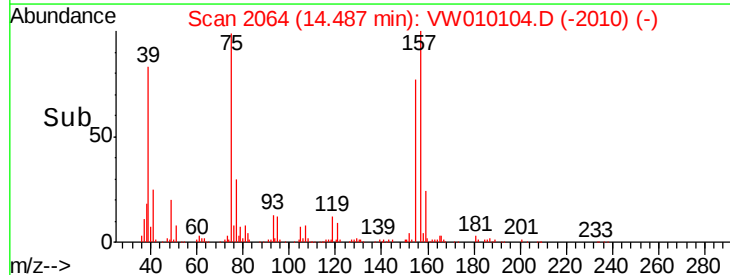
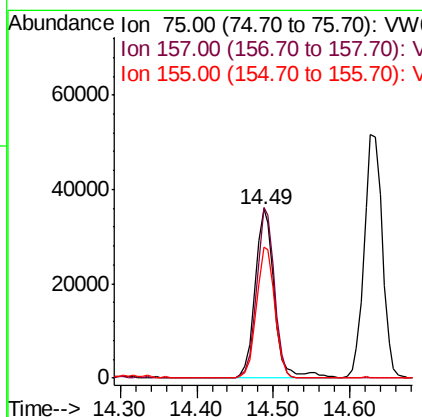
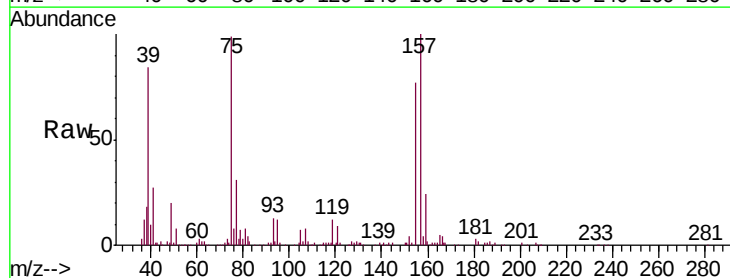
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

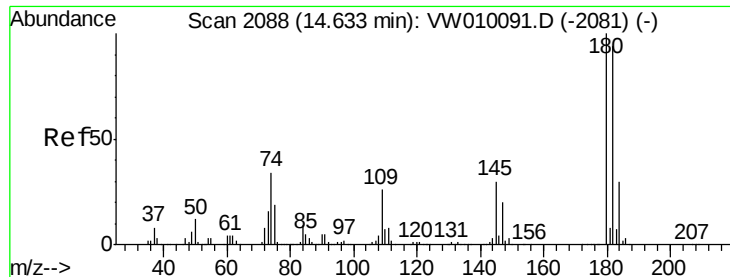
Tgt Ion:146 Resp: 559127
 Ion Ratio Lower Upper
 146 100
 111 43.8 35.0 52.6
 148 63.7 50.4 75.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 26.808 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW010104.D
 Acq: 23 Apr 2019 19:28

Tgt Ion: 75 Resp: 63358
 Ion Ratio Lower Upper
 75 100
 157 100.7 73.3 109.9
 155 77.2 58.6 88.0

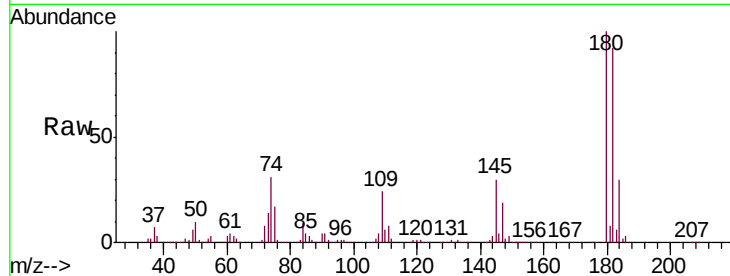




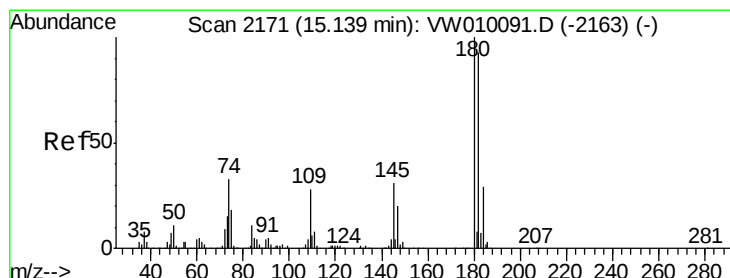
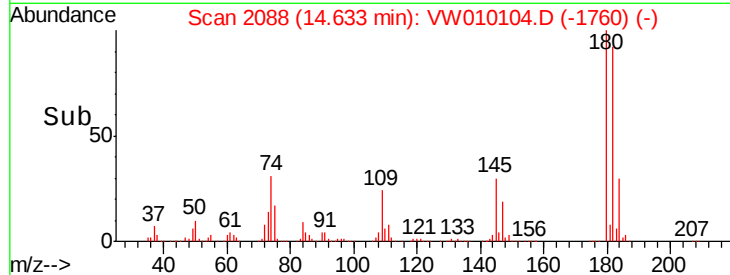
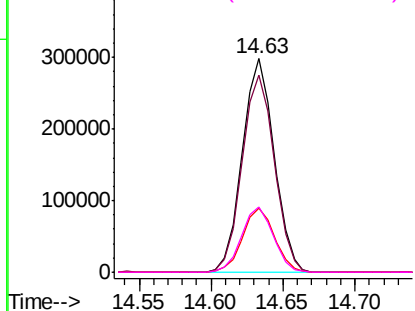
#67
 1,3,5-Trichlorobenzene
 Concen: 26.174 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VW010104.D
 Acq: 23 Apr 2019 19:28

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

Tgt Ion:180 Resp: 456343
 Ion Ratio Lower Upper
 180 100
 182 93.3 76.8 115.2
 184 30.3 24.0 36.0
 145 30.4 24.4 36.6

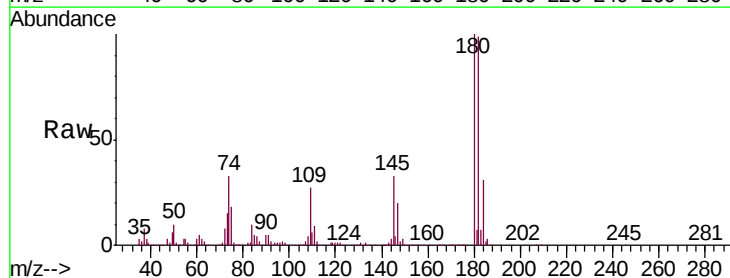


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

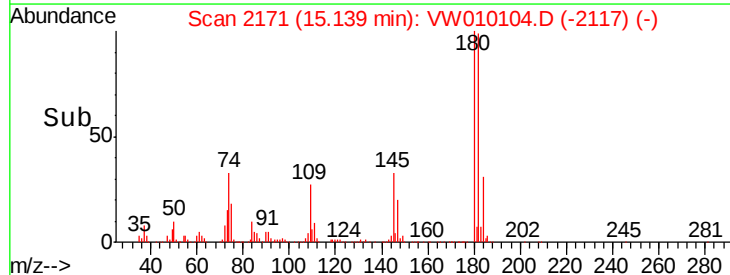
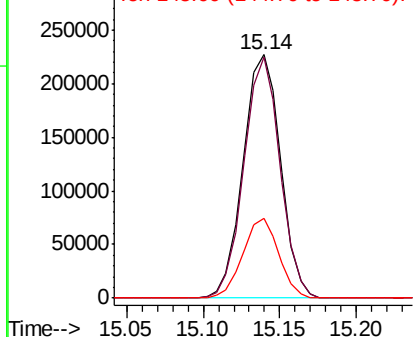


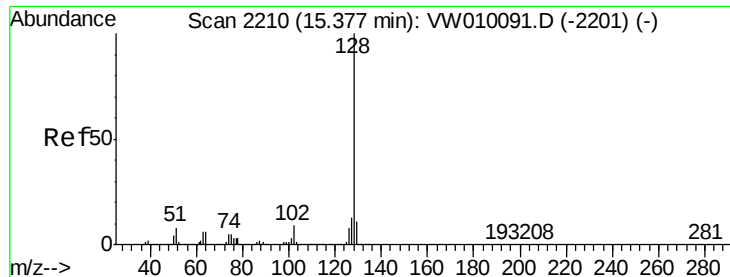
#68
 1,2,4-trichlorobenzene
 Concen: 27.093 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW010104.D
 Acq: 23 Apr 2019 19:28

Tgt Ion:180 Resp: 386954
 Ion Ratio Lower Upper
 180 100
 182 95.7 75.4 113.0
 145 31.5 25.0 37.4



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





#69

Naphthalene

Concen: 37.607 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.01 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

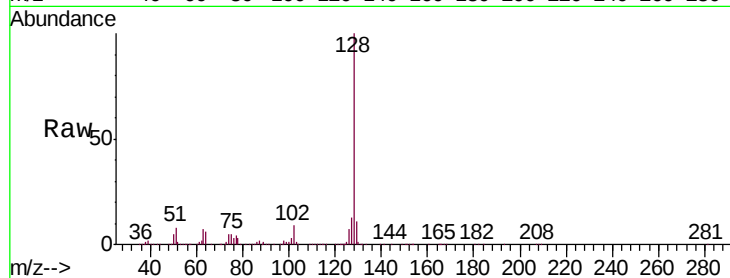
Tgt Ion:128 Resp: 1152803

Ion Ratio Lower Upper

128 100

129 11.1 8.6 12.8

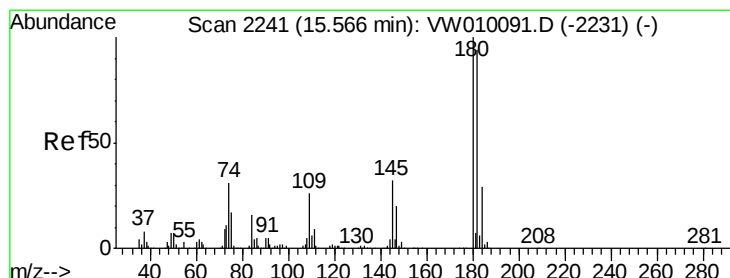
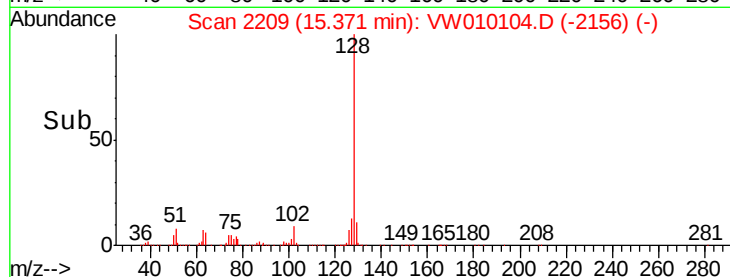
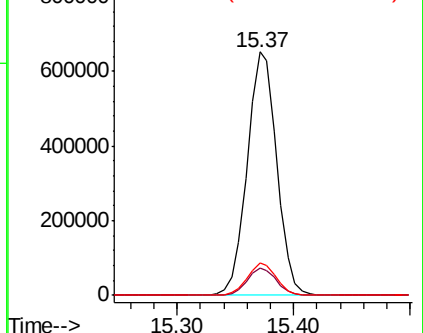
127 13.0 10.6 16.0



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: 25.765 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.01 min

Lab File: VW010104.D

Acq: 23 Apr 2019 19:28

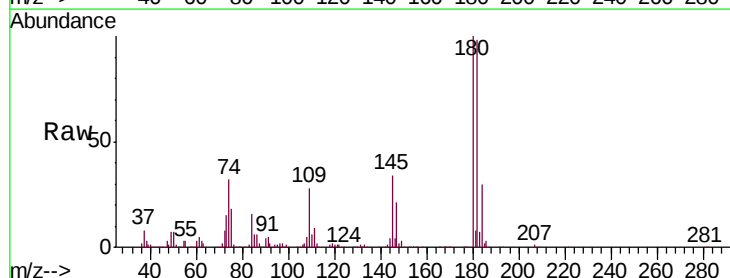
Tgt Ion:180 Resp: 351108

Ion Ratio Lower Upper

180 100

182 95.9 76.0 114.0

145 33.2 26.3 39.5



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

