

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW032319\
 Data File : VW009393.D
 Acq On : 23 Mar 2019 16:47
 Operator : SY/VA
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Mar 23 22:48:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Mar 23 22:42:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	431242	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	410359	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	214289	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	117099	22.72	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.88%
7) Chloroethane-d5	2.89	69	119095	19.75	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	79.00%
10) 1,1-Dichloroethene-d2	4.02	63	258240	23.19	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	92.76%
20) 2-Butanone-d5	7.07	46	101652	47.70	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.40%
24) Chloroform-d	7.64	84	280529	23.84	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.36%
26) 1,2-Dichloroethane-d4	8.30	65	167249	23.59	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	94.36%
29) Benzene-d6	8.27	84	522148	23.07	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	92.28%
33) 1,2-Dichloropropane-d6	9.27	67	160189	23.57	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	94.28%
37) Toluene-d8	10.32	98	488575	23.35	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	93.40%
38) trans-1,3-Dichloropropene-	10.57	79	74507	21.83	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	87.32%
39) 2-Hexanone-d5	10.93	63	81344	49.41	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	98.82%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	164202	24.53	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	98.12%
61) 1,2-Dichlorobenzene-d4	13.86	152	187634	22.83	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	91.32%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	112316	19.771	ug/L #	80
3) Chloromethane	2.21	50	127425	21.142	ug/L	100
5) Vinyl chloride	2.37	62	164732	26.554	ug/L	99
6) Bromomethane	2.78	94	112830	21.709	ug/L	100
8) Chloroethane	2.93	64	113428	22.099	ug/L	95
9) Trichlorofluoromethane	3.26	101	89323	18.228	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	128903	22.778	ug/L	97
12) 1,1-Dichloroethene	4.04	96	126763	23.871	ug/L	87
13) Acetone	4.12	43	78203	44.746	ug/L	96
14) Carbon disulfide	4.38	76	366374	25.635	ug/L	99
15) Methyl Acetate	4.66	43	76491	22.278	ug/L	96
16) Methylene chloride	4.92	84	131872	20.970	ug/L	98
17) Methyl tert-butyl Ether	5.42	73	157587	20.973	ug/L #	90
18) trans-1,2-Dichloroethene	5.42	96	127040	22.754	ug/L	100
19) 1,1-Dichloroethane	6.21	63	240382	23.613	ug/L	99
21) 2-Butanone	7.17	43	107942	44.730	ug/L	99
22) cis-1,2-Dichloroethene	7.16	96	136786	22.616	ug/L	98

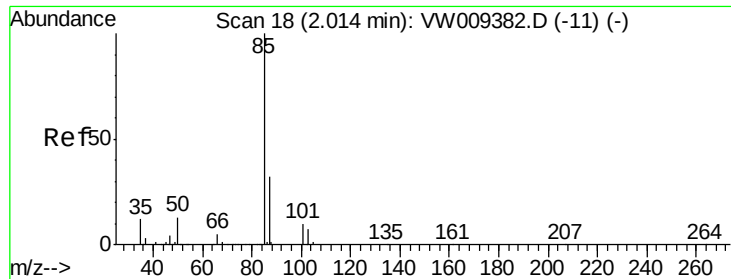
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 QLast Update : Sat Mar 23 22:42:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	64679	22.296	ug/L	97
25) Chloroform	7.67	83	255785	23.993	ug/L	99
27) 1,2-Dichloroethane	8.40	62	189440	23.833	ug/L	97
30) Cyclohexane	7.95	56	212795	22.833	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	198968	24.277	ug/L	100
32) Carbon tetrachloride	8.07	117	200719	24.273	ug/L	100
34) Benzene	8.32	78	535365	23.835	ug/L	100
35) Trichloroethene	9.09	95	137617	22.994	ug/L	99
36) Methylcyclohexane	9.33	83	237453	22.932	ug/L	98
40) 1,2-Dichloropropane	9.37	63	132843	23.048	ug/L	100
41) Bromodichloromethane	9.64	83	186090	23.302	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	211347	22.514	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	230628	44.159	ug/L	99
44) Toluene	10.38	91	583770	23.771	ug/L	97
45) trans-1,3-Dichloropropene	10.60	75	187901	23.010	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	107613	23.403	ug/L	97
47) Tetrachloroethene	10.86	164	118189	23.372	ug/L	98
49) 2-Hexanone	10.97	43	171314	46.573	ug/L	100
50) Dibromochloromethane	11.13	129	131068	23.091	ug/L	94
51) 1,2-Dibromoethane	11.23	107	104685	22.458	ug/L	99
52) Chlorobenzene	11.66	112	368998	23.427	ug/L	100
53) Ethylbenzene	11.73	91	663348	24.026	ug/L	99
54) m,p-Xylene	11.84	106	248793	23.719	ug/L	92
55) o-xylene	12.17	106	236542	23.115	ug/L	99
56) Styrene	12.18	104	418967	23.996	ug/L	96
57) Isopropylbenzene	12.47	105	656255	23.940	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	144563	23.305	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	107108	23.266	ug/L	98
62) Bromoform	12.35	173	81609	22.540	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	288118	22.560	ug/L	100
64) 1,4-Dichlorobenzene	13.58	146	301506	22.834	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	276793	22.726	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.49	75	26985	22.607	ug/L	91
67) 1,3,5-Trichlorobenzene	14.63	180	230675	23.157	ug/L	98
68) 1,2,4-trichlorobenzene	15.14	180	185297	22.145	ug/L	99
69) Naphthalene	15.37	128	389126	22.431	ug/L	100
70) 1,2,3-Trichlorobenzene	15.56	180	179150	22.859	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 19.771 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

Instrument :

MSVOA_W

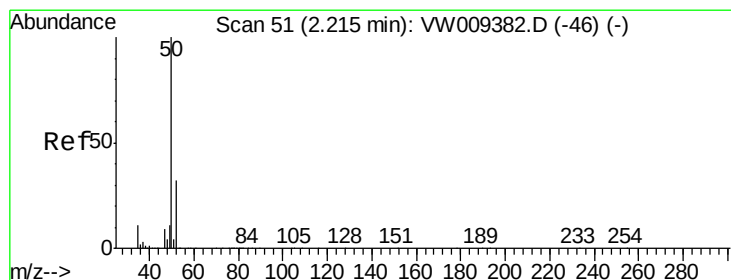
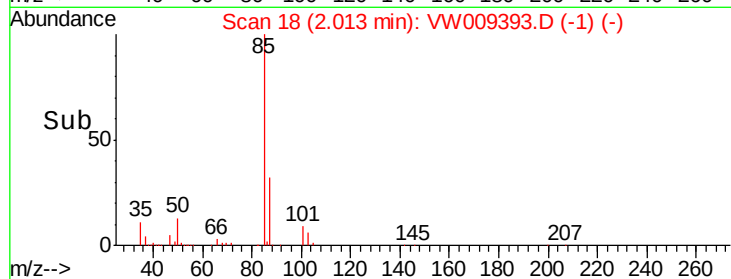
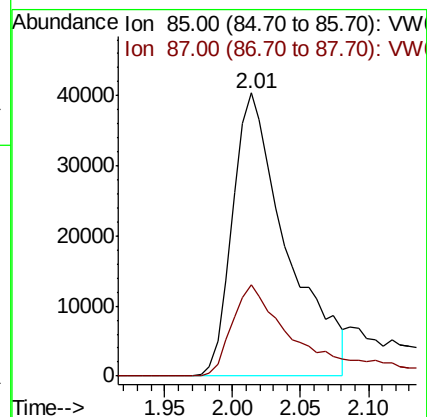
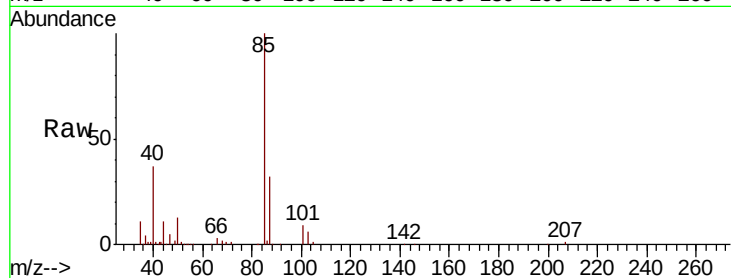
ClientSampleId :

Tot Ion: 85 Resp: 112316

Ion Ratio Lower Upper

85 100

87 38.2 19.5 36.3#



#3

Chloromethane

Concen: 21.142 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW009393.D

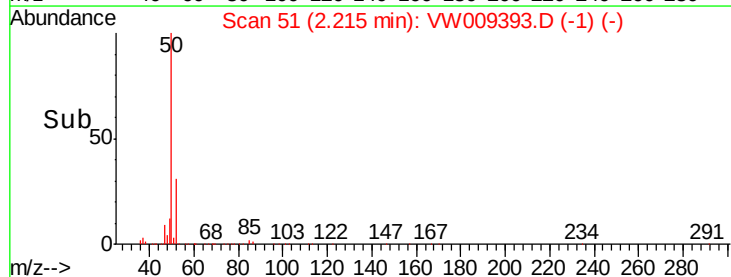
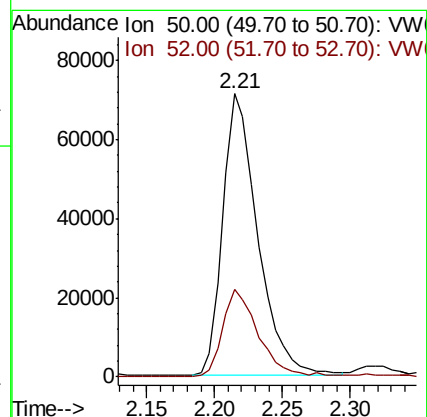
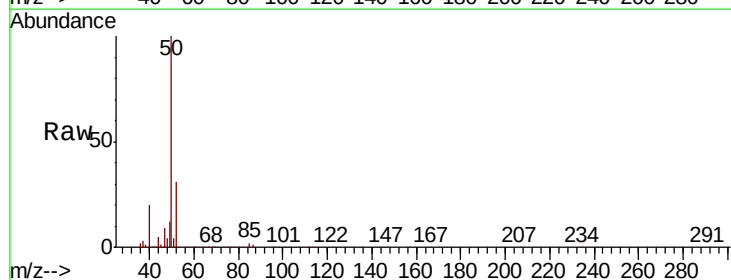
Acq: 23 Mar 2019 16:47

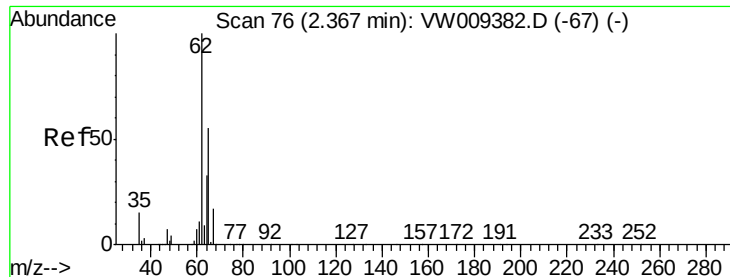
Tgt Ion: 50 Resp: 127425

Ion Ratio Lower Upper

50 100

52 31.1 21.6 40.2





#5

Vinyl chloride

Concen: 26.554 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

Instrument :

MSVOA_W

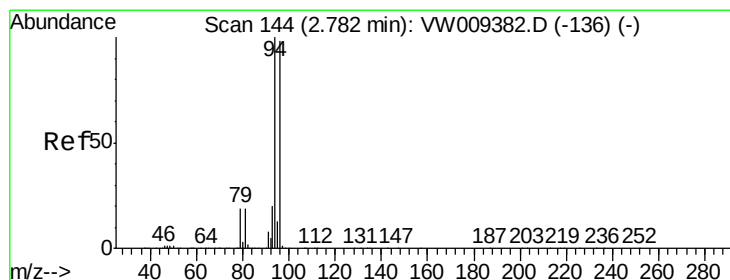
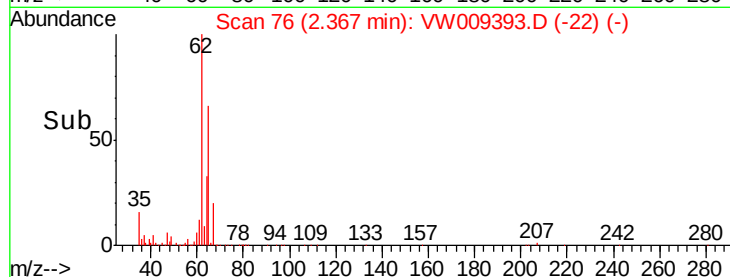
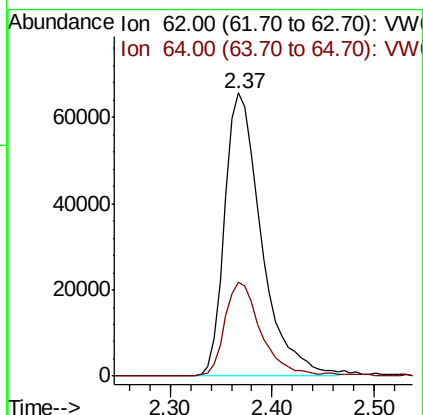
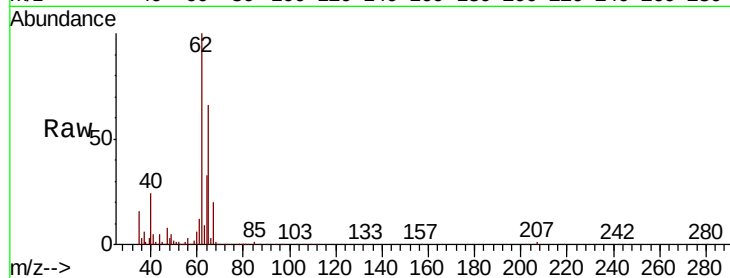
ClientSampled :

Tot Ion: 62 Resp: 164732

Ion Ratio Lower Upper

62 100

64 33.1 23.0 42.6



#6

Bromomethane

Concen: 21.709 ug/L

RT: 2.78 min Scan# 144

Delta R.T. -0.00 min

Lab File: VW009393.D

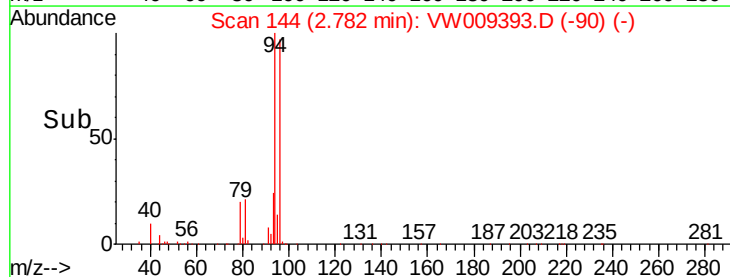
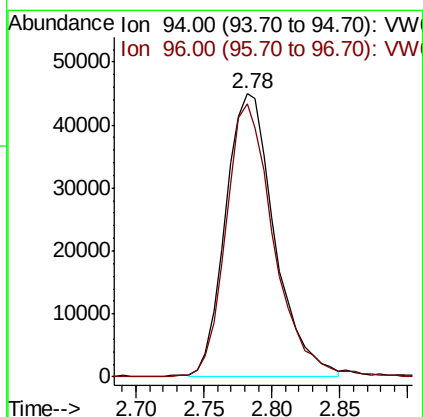
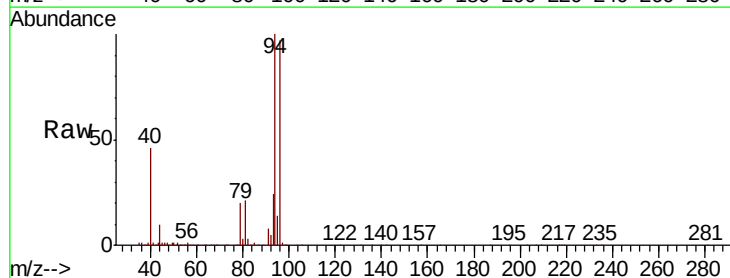
Acq: 23 Mar 2019 16:47

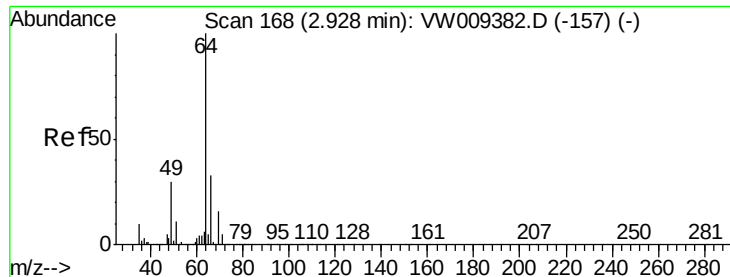
Tgt Ion: 94 Resp: 112830

Ion Ratio Lower Upper

94 100

96 94.2 9.4 178.4





#8

Chloroethane

Concen: 22.099 ug/L

RT: 2.93 min Scan# 168

Delta R.T. -0.00 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

Instrument :

MSVOA_W

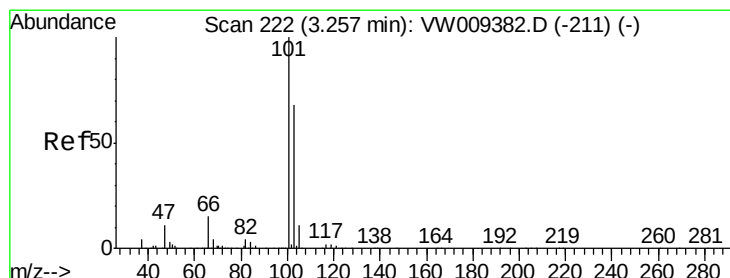
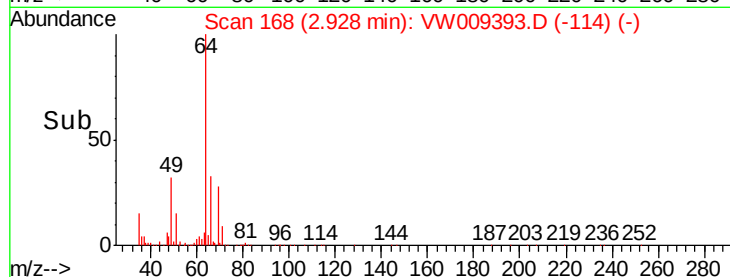
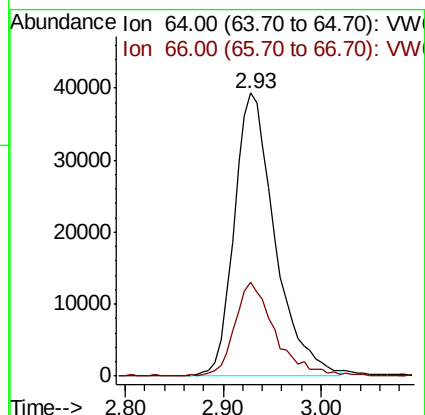
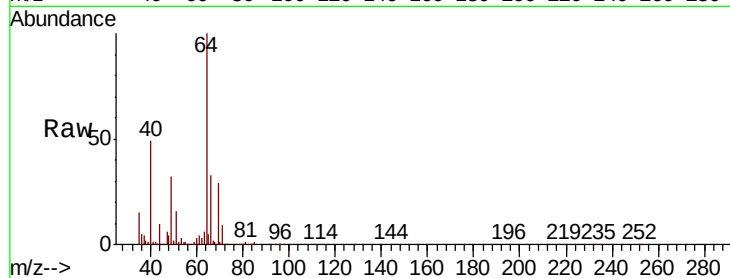
ClientSampleId :

Tot Ion: 64 Resp: 113428

Ion Ratio Lower Upper

64 100

66 33.0 25.1 46.7



#9

Trichlorofluoromethane

Concen: 18.228 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW009393.D

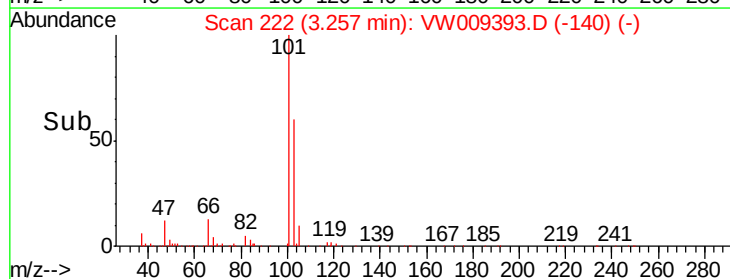
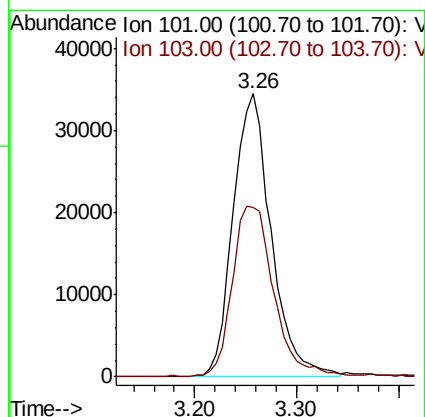
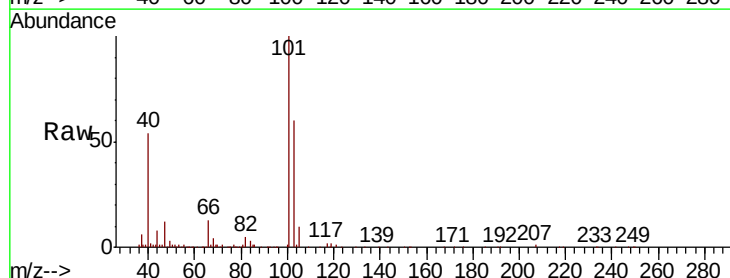
Acq: 23 Mar 2019 16:47

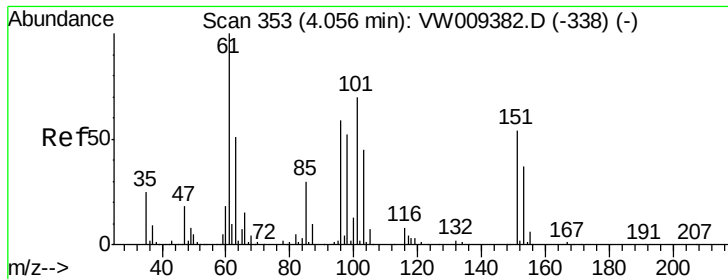
Tgt Ion: 101 Resp: 89323

Ion Ratio Lower Upper

101 100

103 65.5 45.0 83.6





#11

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

Concen: 22.778 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.00 min

Lab File: VW009393.D

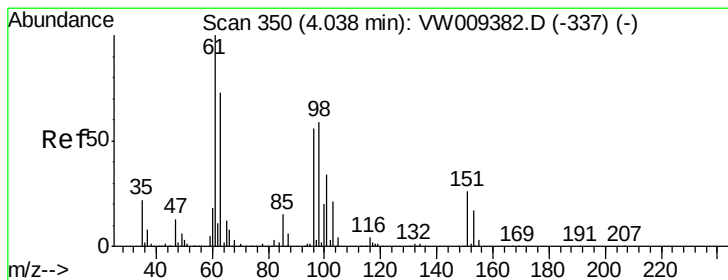
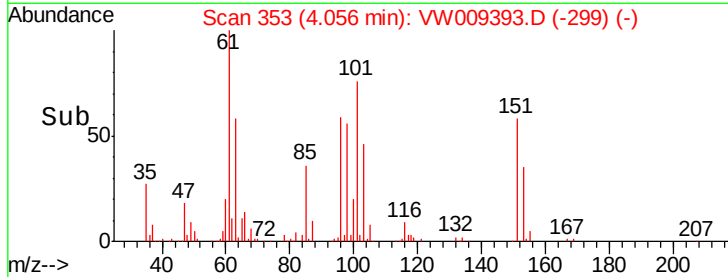
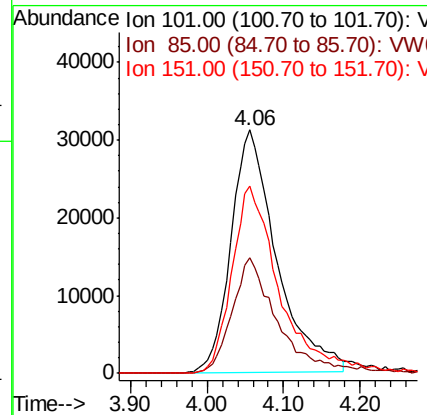
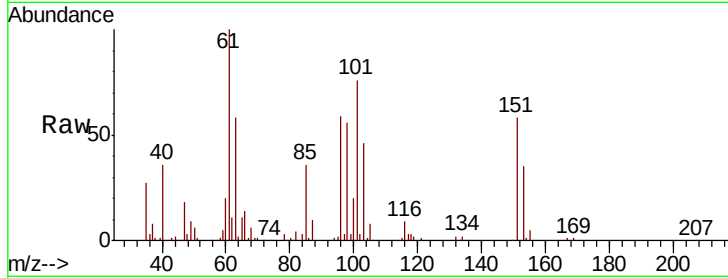
Acq: 23 Mar 2019 16:47

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion:	101	Resp:	128903
Ion	Ratio	Lower	Upper
101	100		
85	42.7	32.6	48.8
151	76.6	63.3	94.9



#12

1,1-Dichloroethene

Concen: 23.871 ug/L

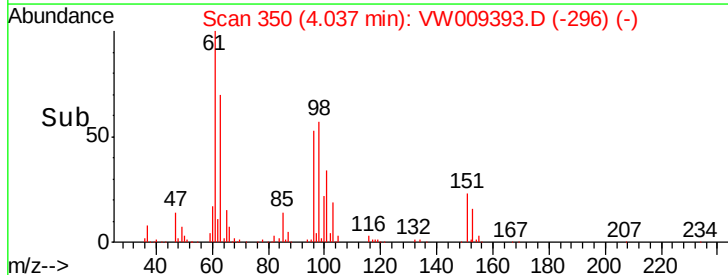
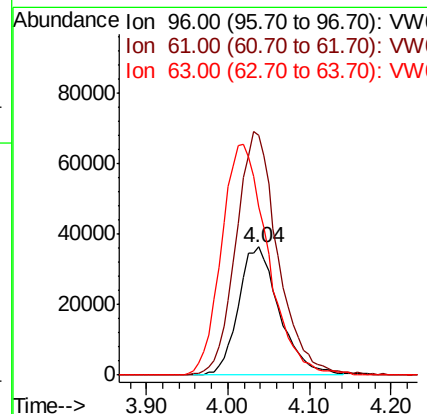
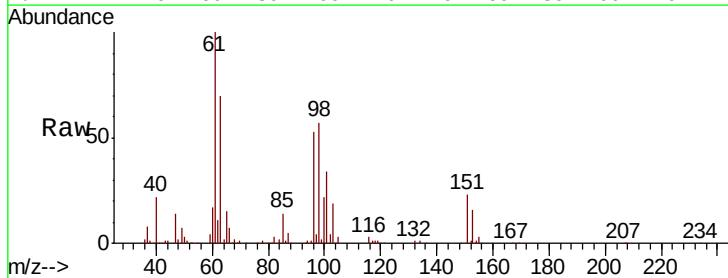
RT: 4.04 min Scan# 350

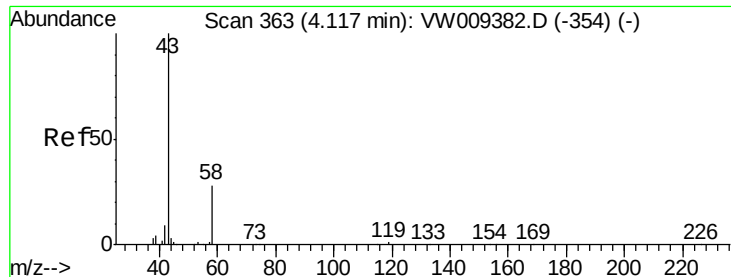
Delta R.T. -0.00 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

Tgt Ion:	96	Resp:	126763
Ion	Ratio	Lower	Upper
96	100		
61	187.3	129.4	240.2
63	131.6	116.8	217.0

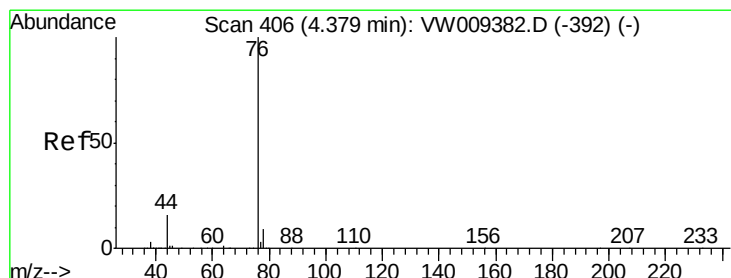
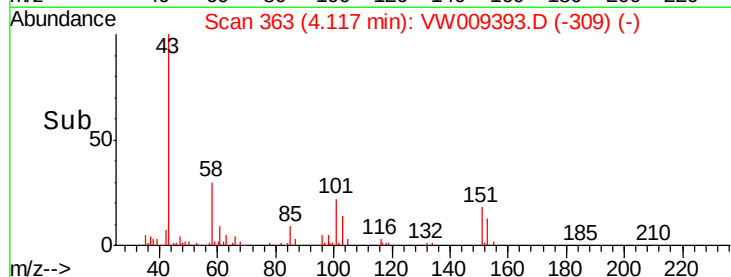
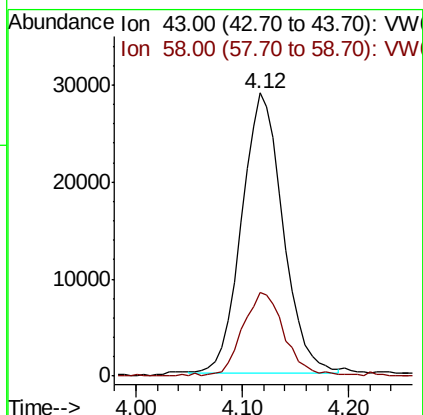
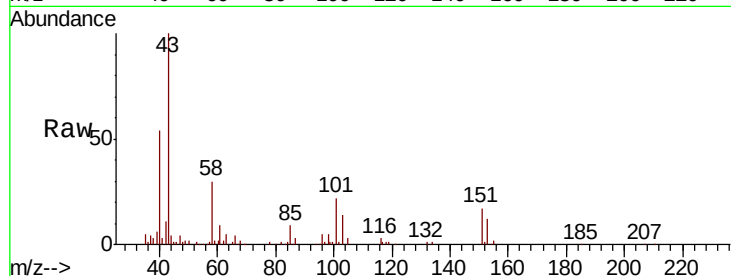




#13
Acetone
Concen: 44.746 ug/L
RT: 4.12 min Scan# 363
Delta R.T. -0.00 min
Lab File: VW009393.D
Acq: 23 Mar 2019 16:47

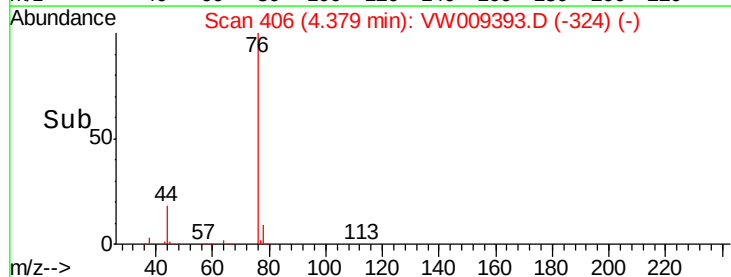
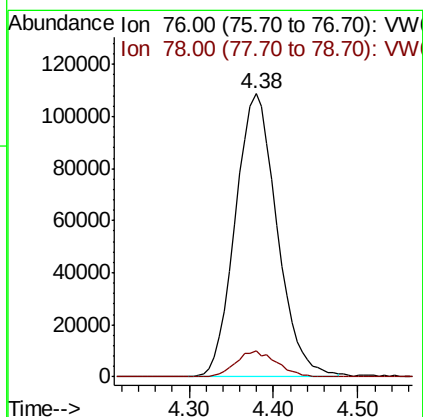
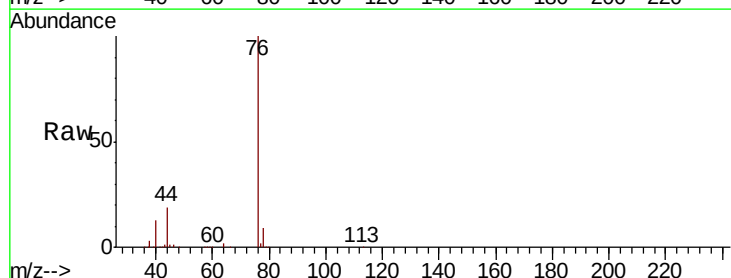
Instrument :
MSVOA_W
ClientSampleId :

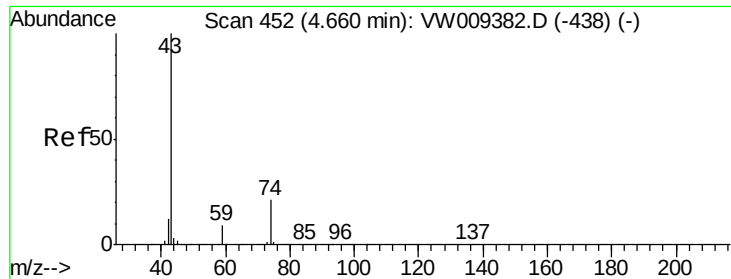
Tot Ion: 43 Resp: 78203
Ion Ratio Lower Upper
43 100
58 29.9 0.0 56.2



#14
Carbon disulfide
Concen: 25.635 ug/L
RT: 4.38 min Scan# 406
Delta R.T. -0.00 min
Lab File: VW009393.D
Acq: 23 Mar 2019 16:47

Tgt Ion: 76 Resp: 366374
Ion Ratio Lower Upper
76 100
78 9.4 7.3 10.9

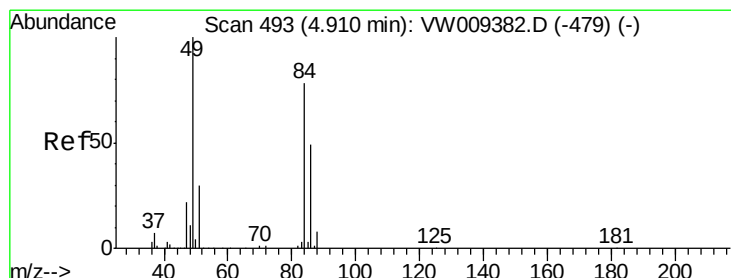
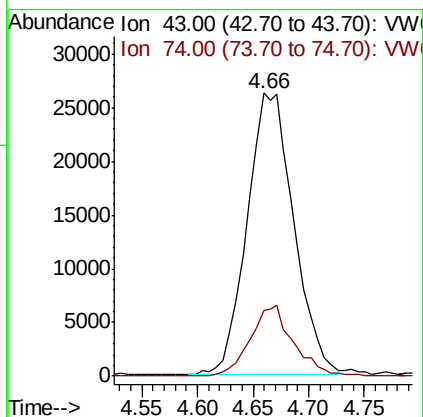
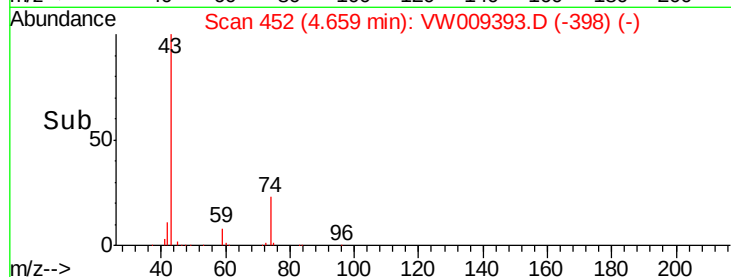
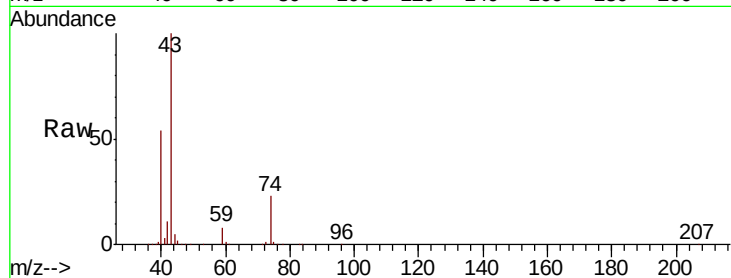




#15
Methvl Acetate
Concen: 22.278 ug/L
RT: 4.66 min Scan# 452
Delta R.T. -0.00 min
Lab File: VW009393.D
Acq: 23 Mar 2019 16:47

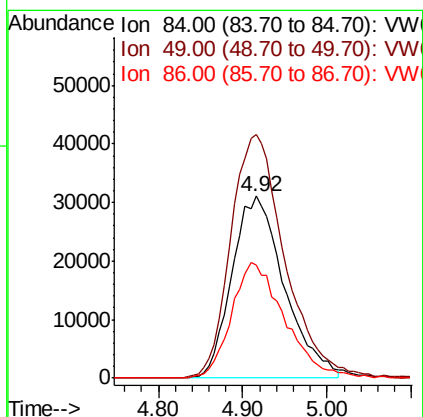
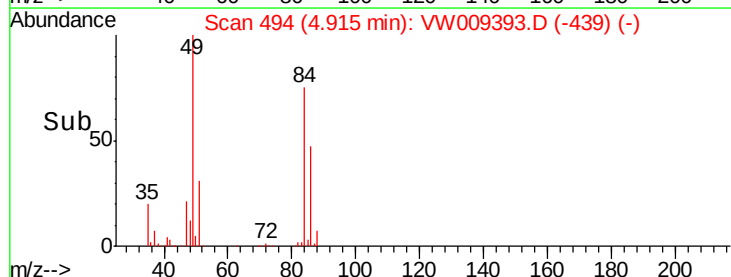
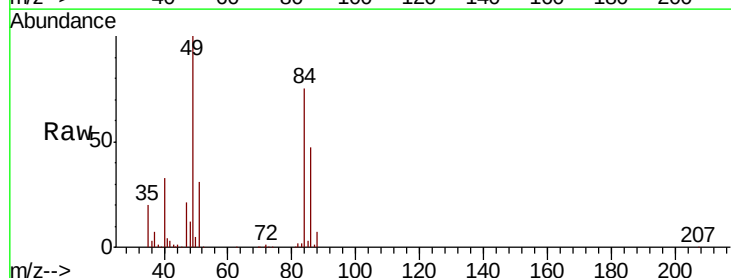
Instrument :
MSVOA_W
ClientSampled :

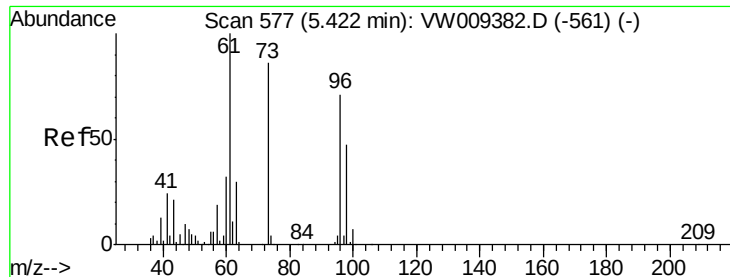
Tot Ion: 43 Resp: 76491
Ion Ratio Lower Upper
43 100
74 22.9 16.7 25.1



#16
Methylene chloride
Concen: 20.970 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW009393.D
Acq: 23 Mar 2019 16:47

Tgt Ion: 84 Resp: 131872
Ion Ratio Lower Upper
84 100
49 133.8 96.0 178.2
86 62.2 44.4 82.5

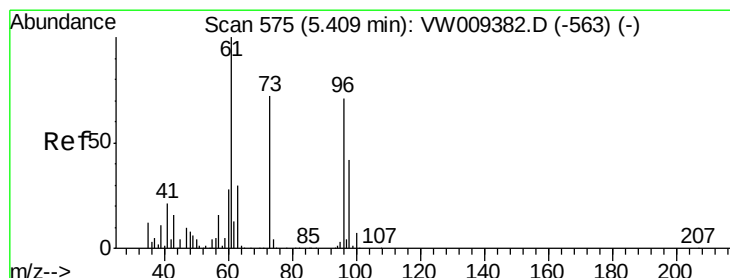
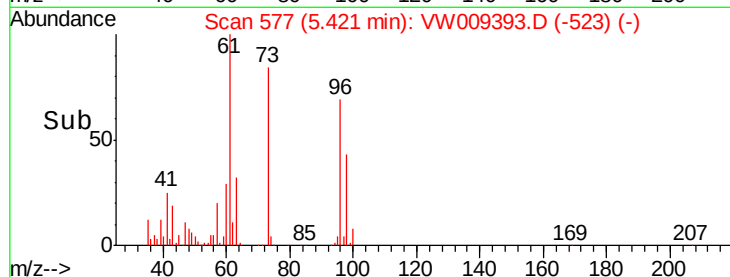
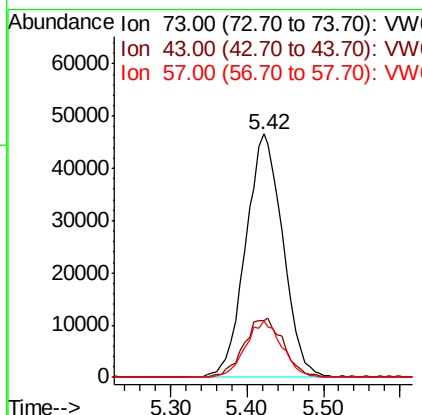
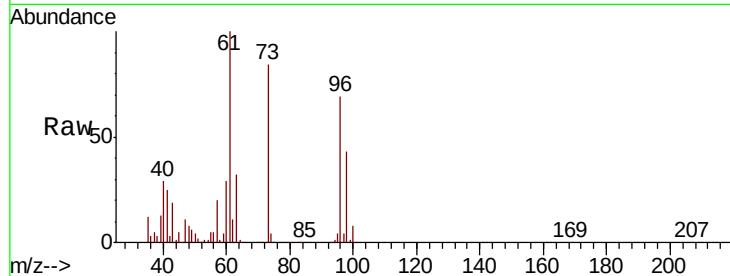




#17
Methyl tert-butyl Ether
Concen: 20.973 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW009393.D
Acq: 23 Mar 2019 16:47

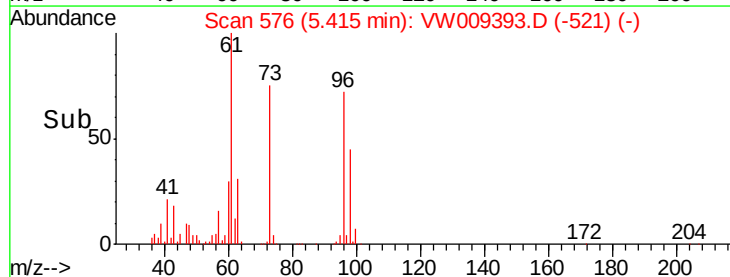
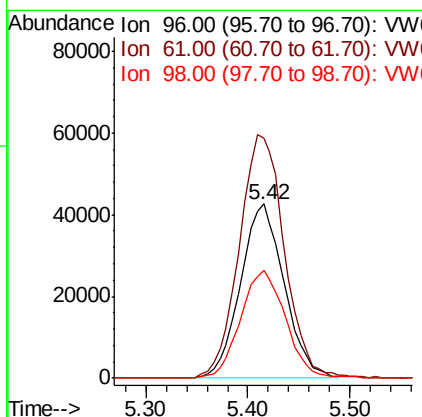
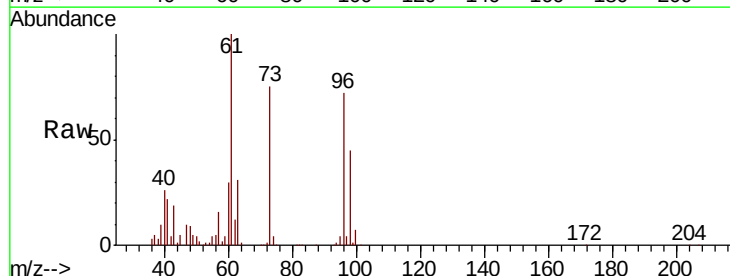
Instrument :
MSVOA_W
ClientSampled :

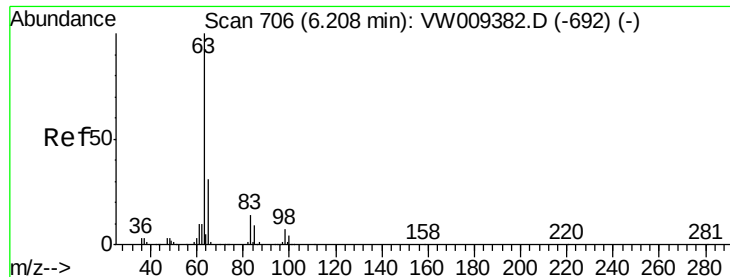
Tot Ion: 73 Resp: 157587
Ion Ratio Lower Upper
73 100
43 13.5 18.2 27.4#
57 22.8 17.8 26.8



#18
trans-1,2-Dichloroethene
Concen: 22.754 ug/L
RT: 5.42 min Scan# 576
Delta R.T. 0.01 min
Lab File: VW009393.D
Acq: 23 Mar 2019 16:47

Tgt Ion: 96 Resp: 127040
Ion Ratio Lower Upper
96 100
61 138.1 96.7 179.5
98 62.1 43.8 81.4





#19

1,1-Dichloroethane

Concen: 23.613 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.00 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

Instrument :

MSVOA_W

ClientSampleId :

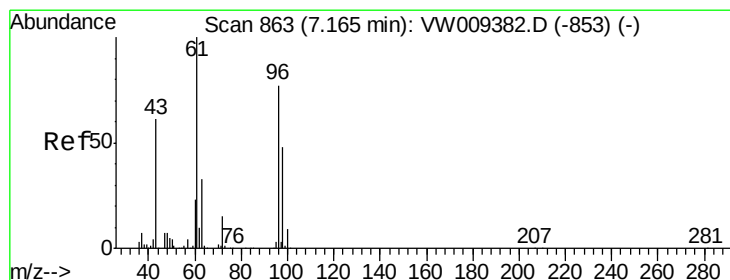
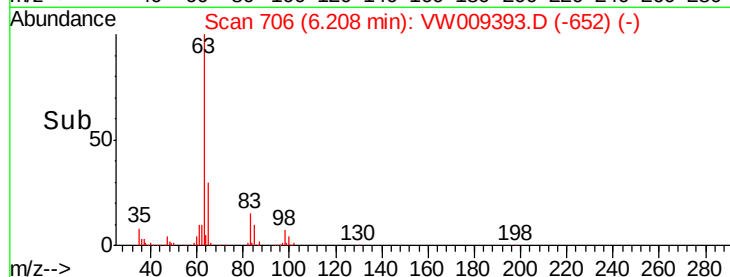
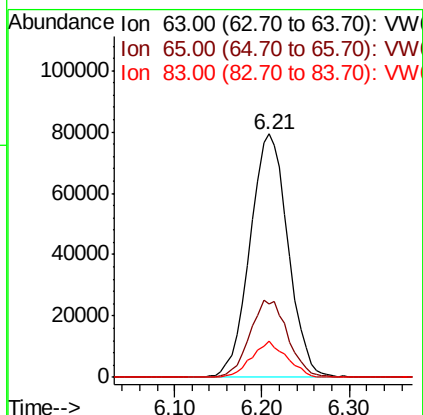
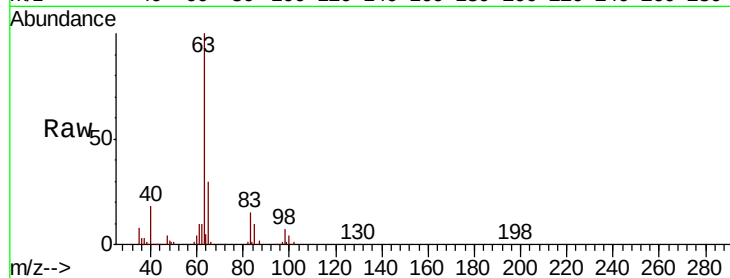
Tot Ion: 63 Resp: 240382

Ion Ratio Lower Upper

63 100

65 30.0 21.6 40.0

83 14.7 10.1 18.7



#21

2-Butanone

Concen: 44.730 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW009393.D

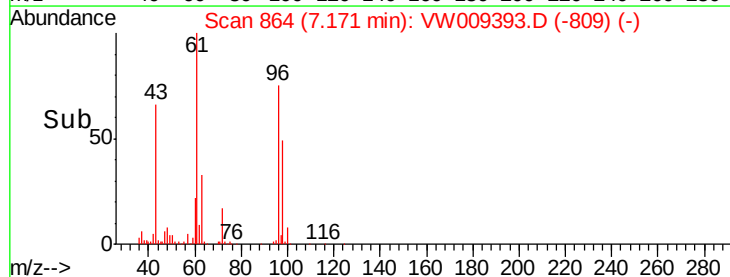
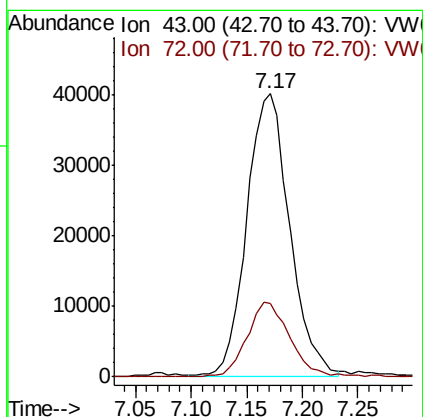
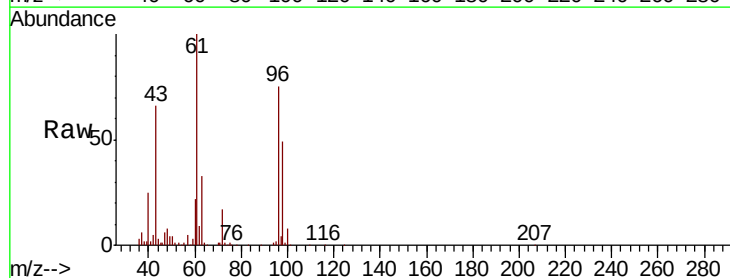
Acq: 23 Mar 2019 16:47

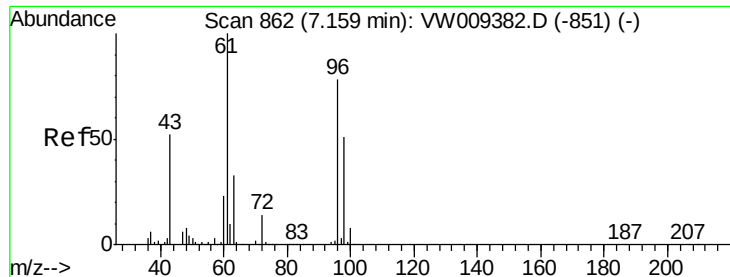
Tgt Ion: 43 Resp: 107942

Ion Ratio Lower Upper

43 100

72 25.8 13.1 39.1



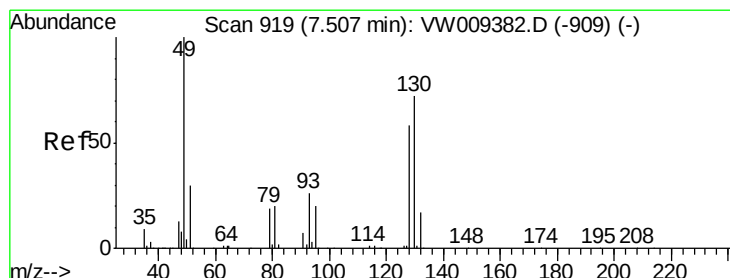
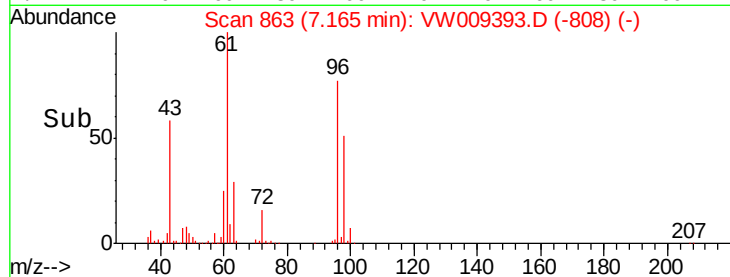
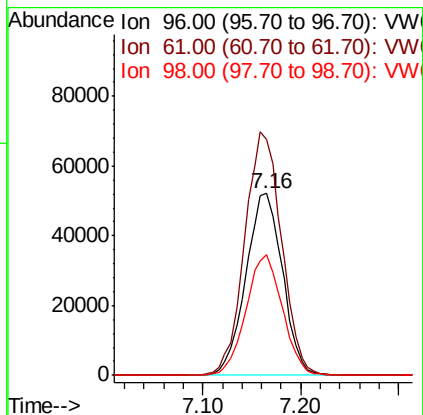
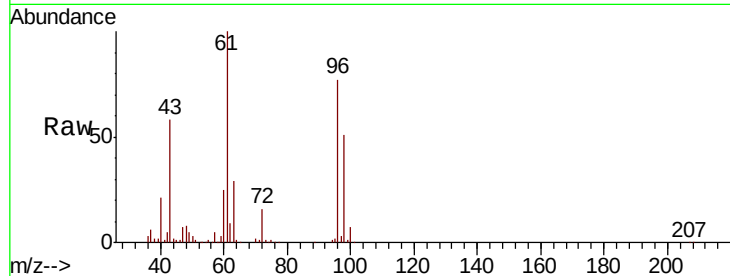


#22

cis-1,2-Dichloroethene
 Concen: 22.616 ug/L
 RT: 7.16 min Scan# 863
 Delta R.T. 0.01 min
 Lab File: VW009393.D
 Acq: 23 Mar 2019 16:47

Instrument :
 MSVOA_W
 ClientSampleId :

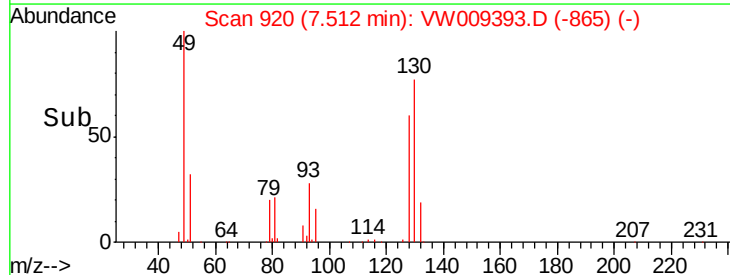
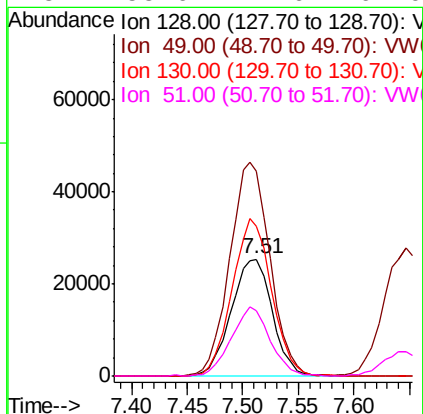
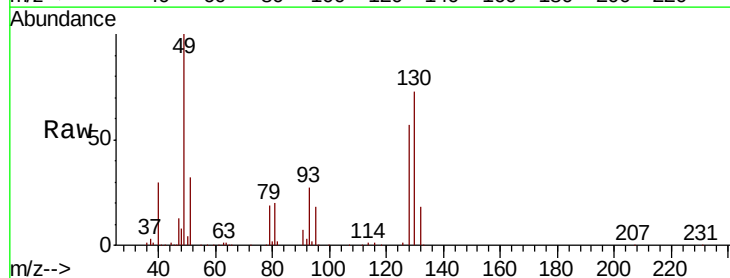
Tot Ion: 96 Resp: 136786
 Ion Ratio Lower Upper
 96 100
 61 129.8 90.6 168.3
 98 66.4 44.0 81.8

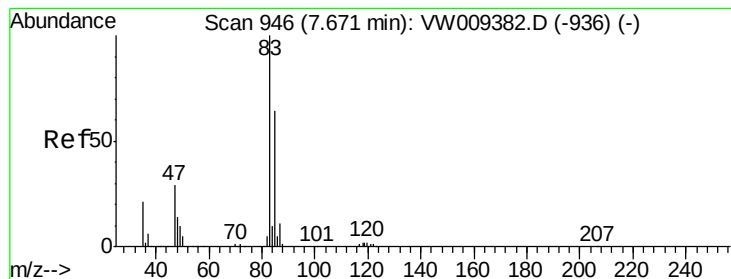


#23

Bromochloromethane
 Concen: 22.296 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. 0.01 min
 Lab File: VW009393.D
 Acq: 23 Mar 2019 16:47

Tgt Ion: 128 Resp: 64679
 Ion Ratio Lower Upper
 128 100
 49 175.5 118.4 219.8
 130 128.0 87.8 163.2
 51 55.6 44.6 67.0





#25

Chloroform

Concen: 23.993 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

Instrument :

MSVOA_W

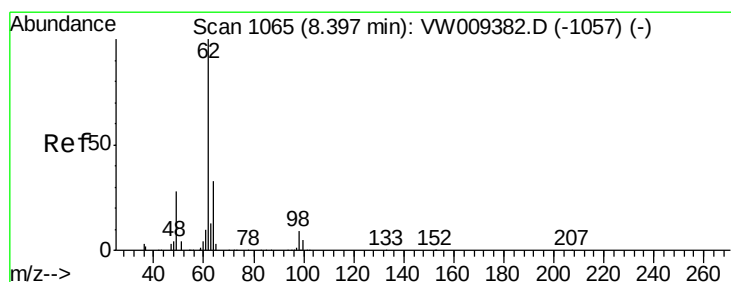
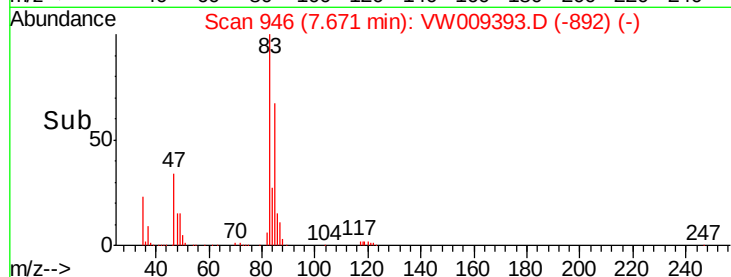
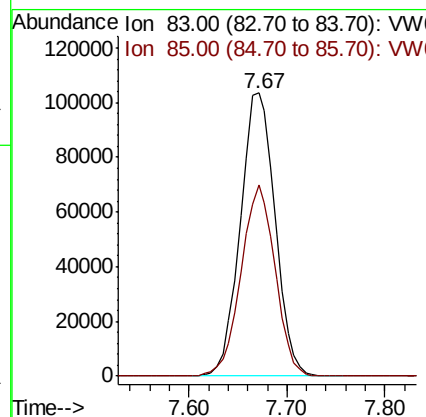
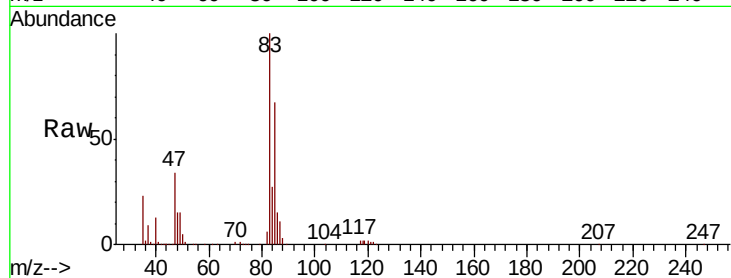
ClientSampleId :

Tot Ion: 83 Resp: 255785

Ion Ratio Lower Upper

83 100

85 66.2 46.0 85.4



#27

1,2-Dichloroethane

Concen: 23.833 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW009393.D

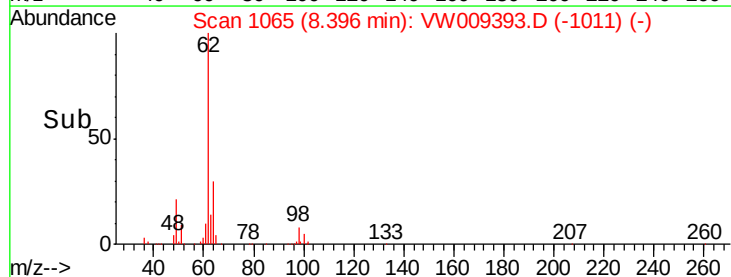
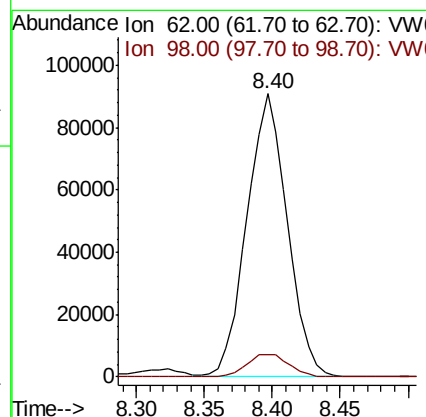
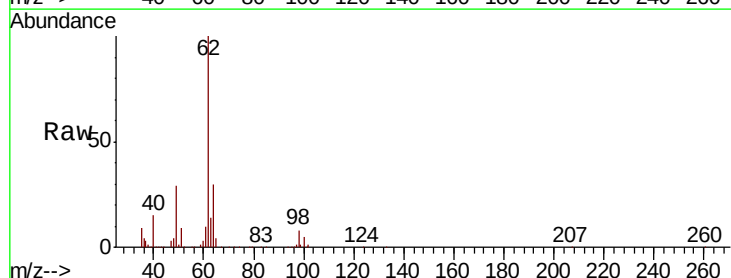
Acq: 23 Mar 2019 16:47

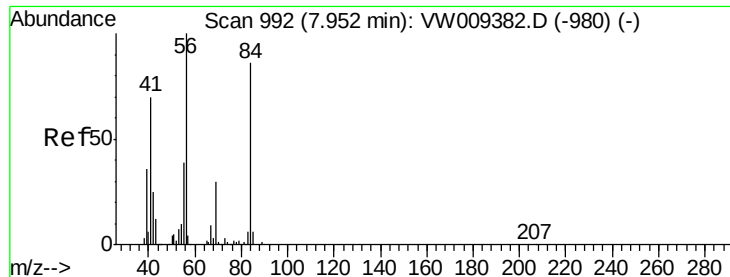
Tgt Ion: 62 Resp: 189440

Ion Ratio Lower Upper

62 100

98 8.0 7.3 10.9

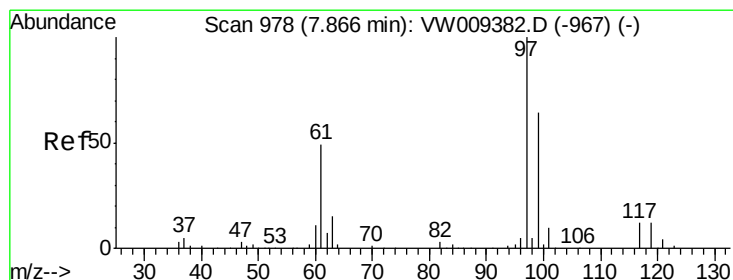
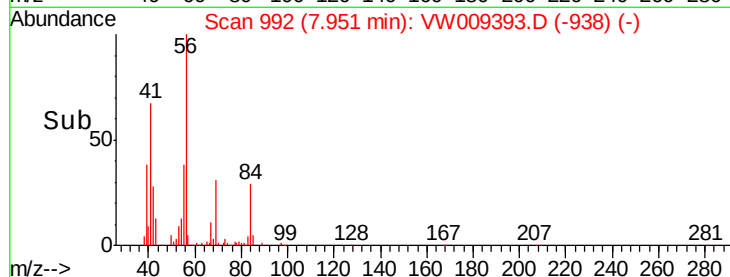
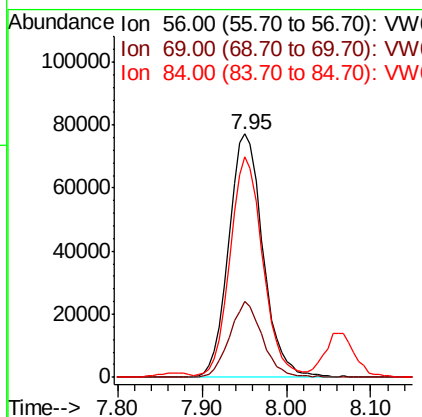
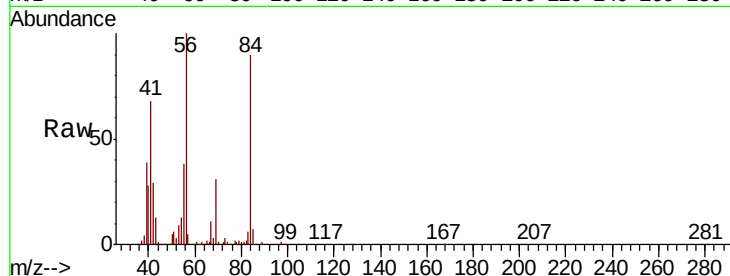




#30
Cyclohexane
Concen: 22.833 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW009393.D
Acq: 23 Mar 2019 16:47

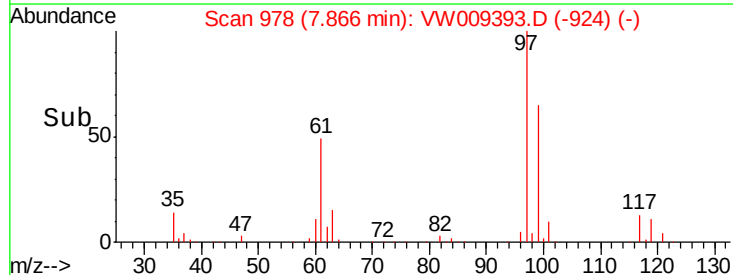
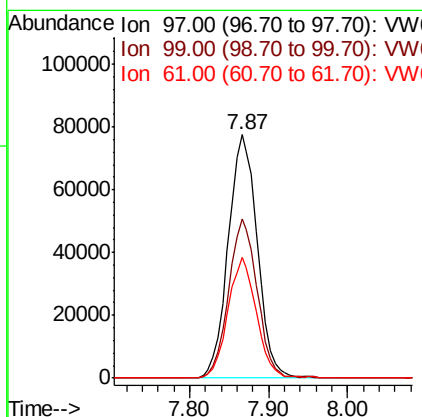
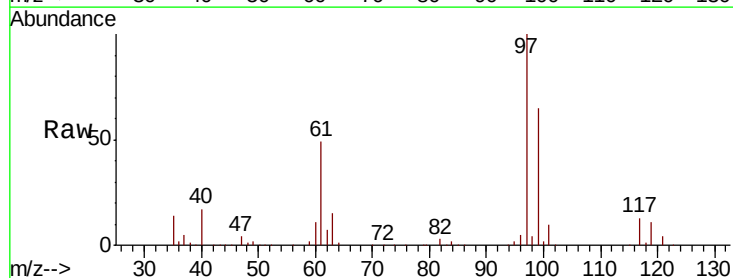
Instrument :
MSVOA_W
ClientSampled :

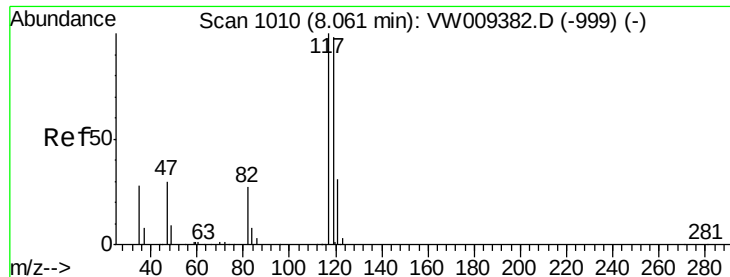
Tot Ion: 56 Resp: 212795
Ion Ratio Lower Upper
56 100
69 29.7 24.0 36.0
84 87.0 69.2 103.8



#31
1,1,1-Trichloroethane
Concen: 24.277 ug/L
RT: 7.87 min Scan# 978
Delta R.T. -0.00 min
Lab File: VW009393.D
Acq: 23 Mar 2019 16:47

Tgt Ion: 97 Resp: 198968
Ion Ratio Lower Upper
97 100
99 63.8 51.2 76.8
61 48.4 38.4 57.6





#32

Carbon tetrachloride

Concen: 24.273 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

Instrument :

MSVOA_W

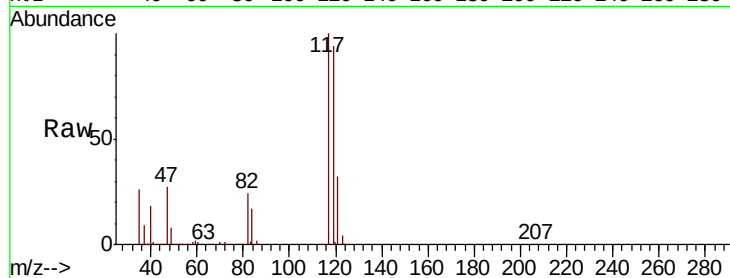
ClientSampleId :

Tot Ion:117 Resp: 200719

Ion Ratio Lower Upper

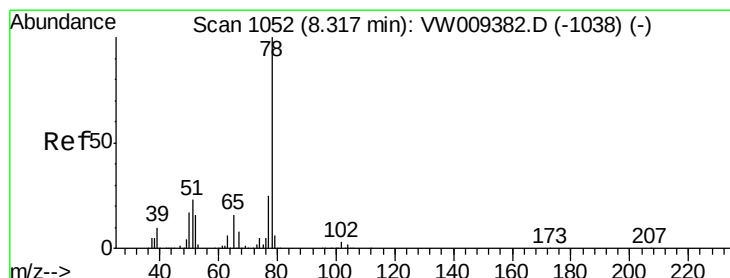
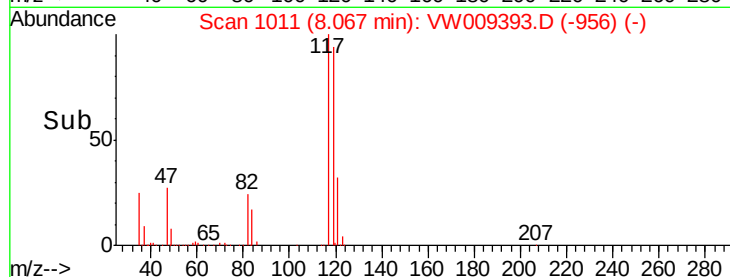
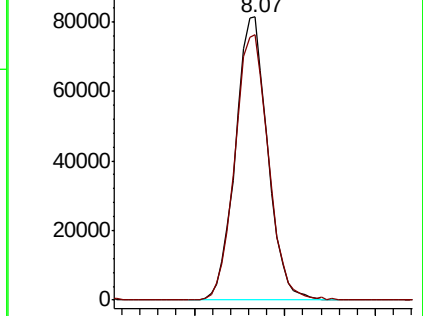
117 100

119 97.1 78.0 117.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 23.835 ug/L

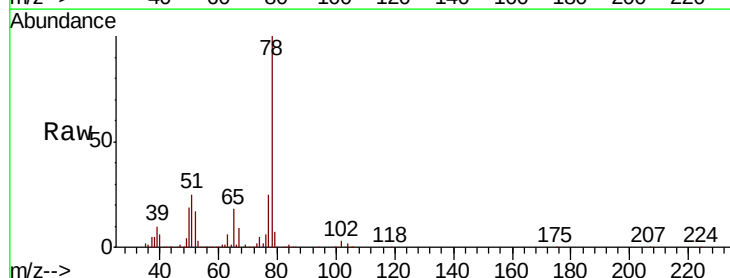
RT: 8.32 min Scan# 1052

Delta R.T. -0.00 min

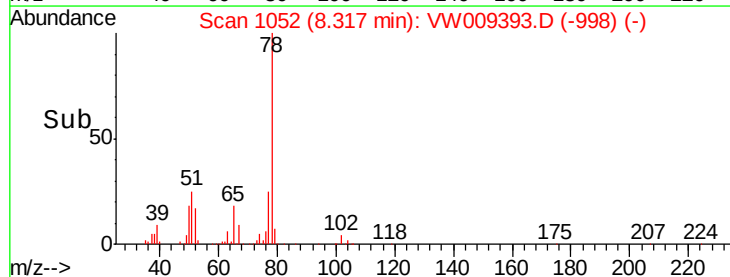
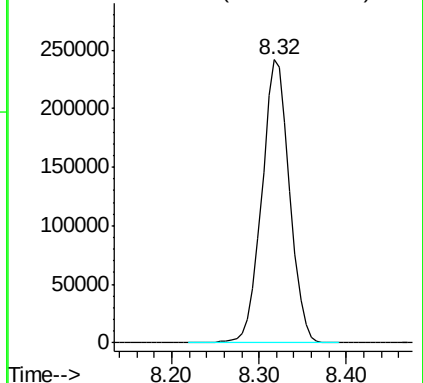
Lab File: VW009393.D

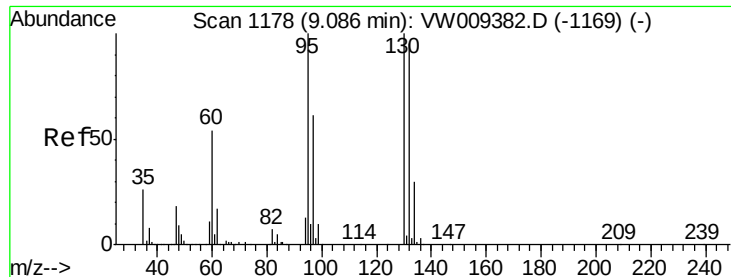
Acq: 23 Mar 2019 16:47

Tgt Ion: 78 Resp: 535365



Abundance Ion 78.00 (77.70 to 78.70): VW

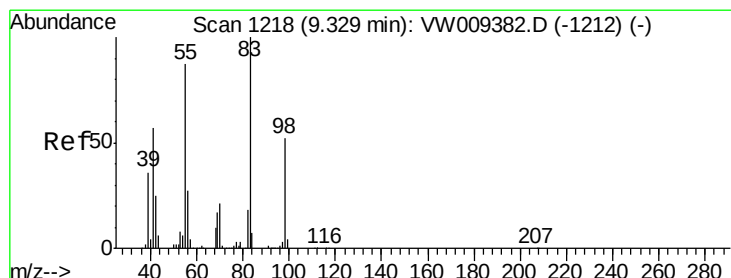
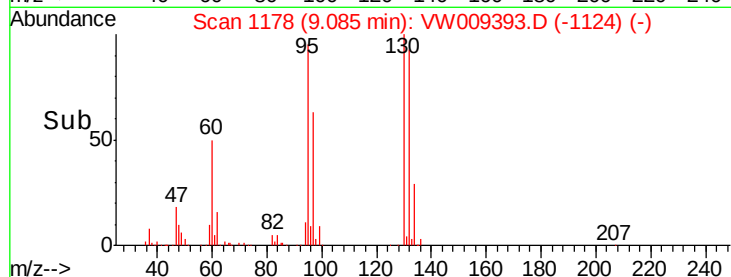
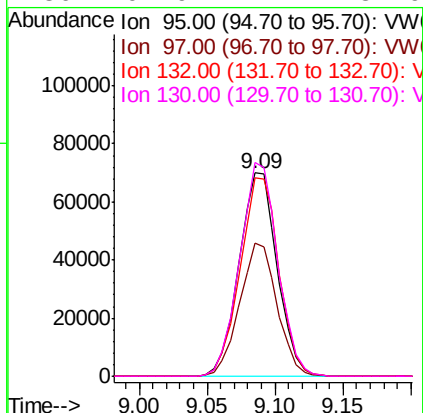
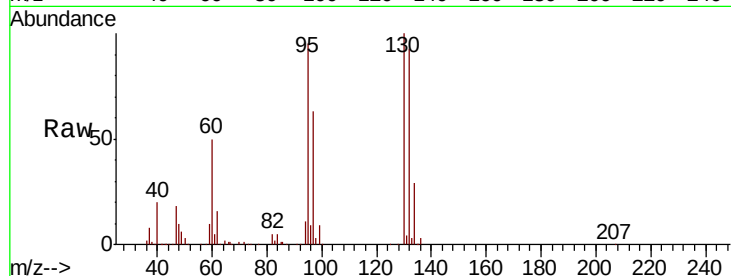




#35
 Trichloroethene
 Concen: 22.994 ug/L
 RT: 9.09 min Scan# 1178
 Delta R.T. -0.00 min
 Lab File: VW009393.D
 Acq: 23 Mar 2019 16:47

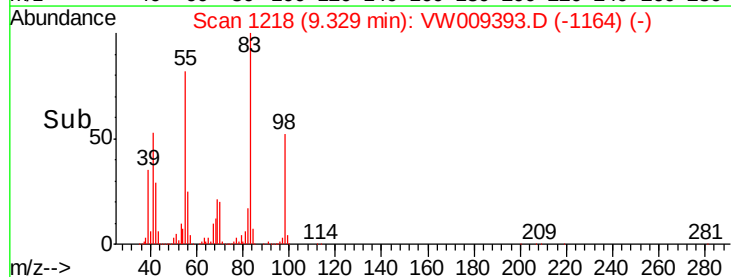
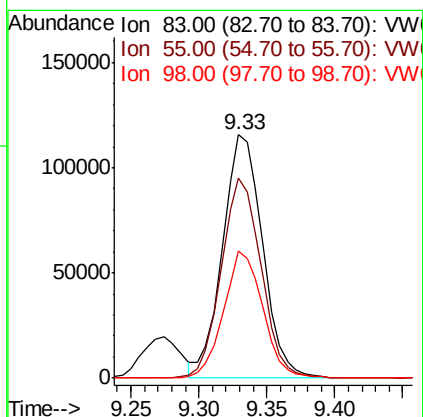
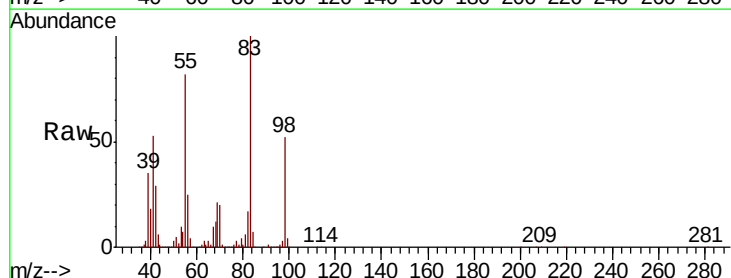
Instrument :
 MSVOA_W
 ClientSampled :

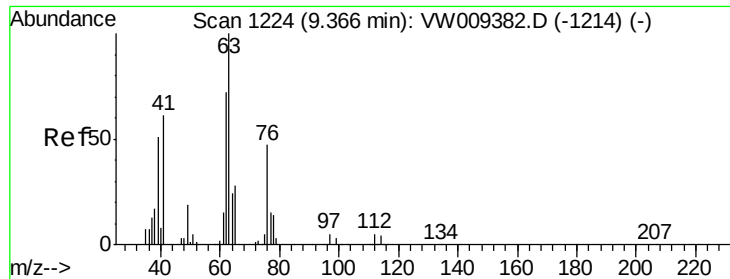
Tot Ion: 95 Resp: 137617
 Ion Ratio Lower Upper
 95 100
 97 64.1 44.7 82.9
 132 98.9 69.0 128.2
 130 104.9 72.7 134.9



#36
 Methylcyclohexane
 Concen: 22.932 ug/L
 RT: 9.33 min Scan# 1218
 Delta R.T. -0.00 min
 Lab File: VW009393.D
 Acq: 23 Mar 2019 16:47

Tgt Ion: 83 Resp: 237453
 Ion Ratio Lower Upper
 83 100
 55 81.6 63.5 95.3
 98 51.0 39.8 59.8

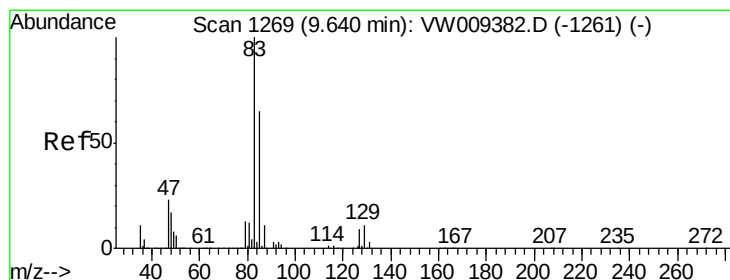
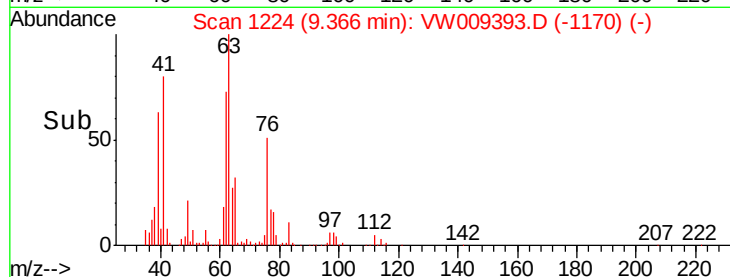
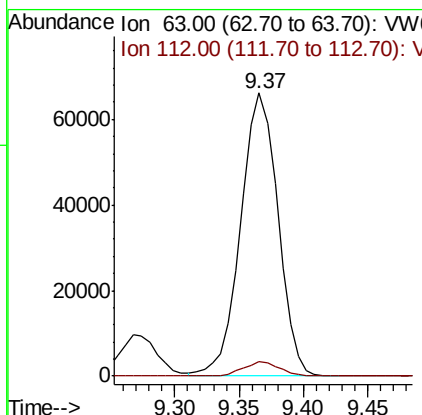
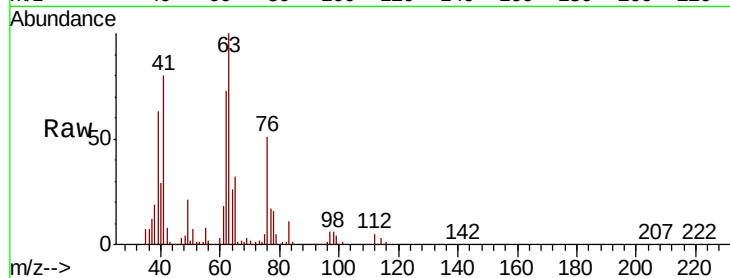




#40
 1,2-Dichloropropane
 Concen: 23.048 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW009393.D
 Acq: 23 Mar 2019 16:47

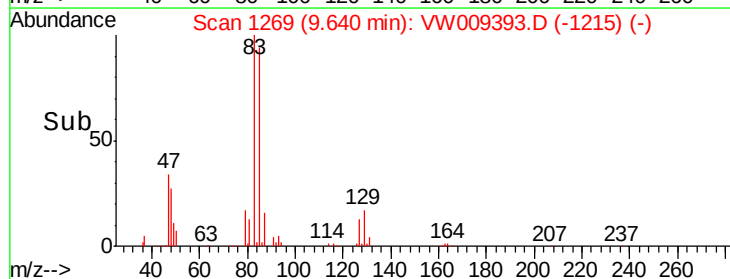
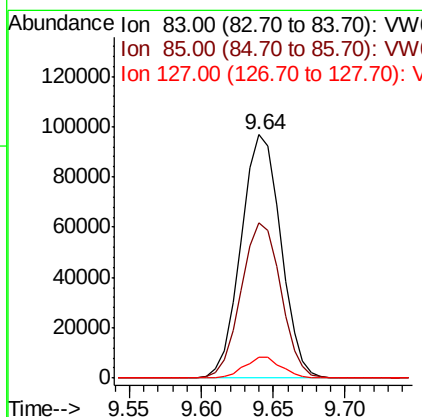
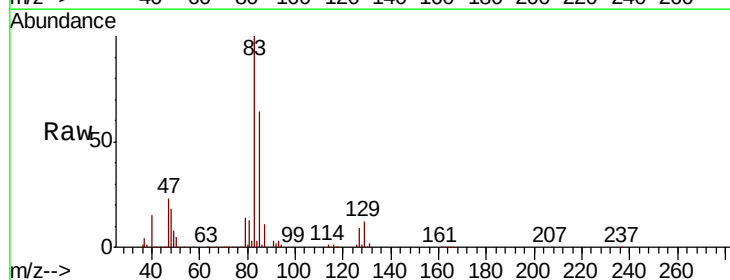
Instrument :
 MSVOA_W
 ClientSampleId :

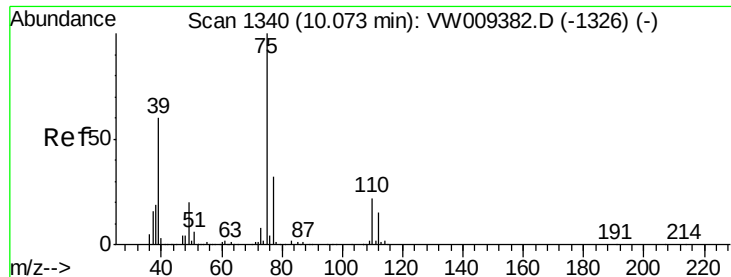
Tot Ion: 63 Resp: 132843
 Ion Ratio Lower Upper
 63 100
 112 4.9 4.0 6.0



#41
 Bromodichloromethane
 Concen: 23.302 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VW009393.D
 Acq: 23 Mar 2019 16:47

Tgt Ion: 83 Resp: 186090
 Ion Ratio Lower Upper
 83 100
 85 63.8 43.5 80.7
 127 8.7 6.2 9.4





#42

cis-1,3-Dichloropropene

Concen: 22.514 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

Instrument :

MSVOA_W

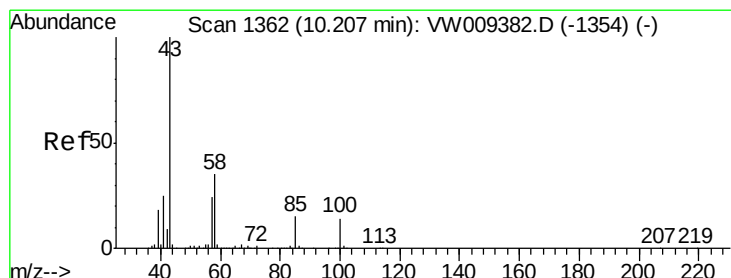
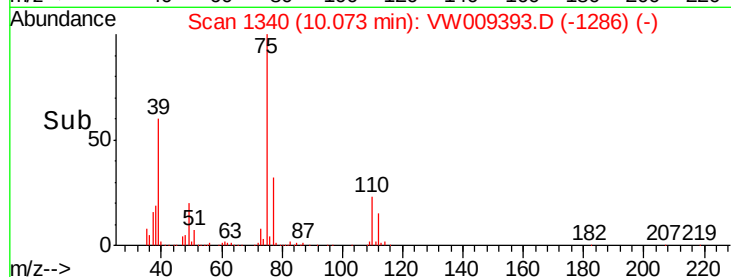
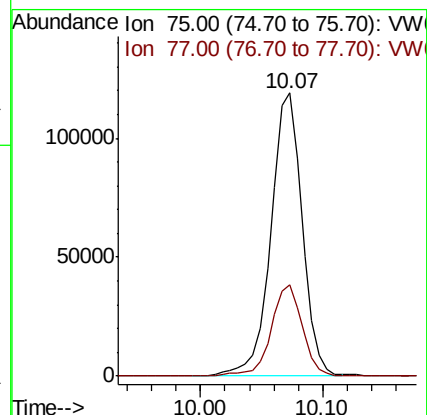
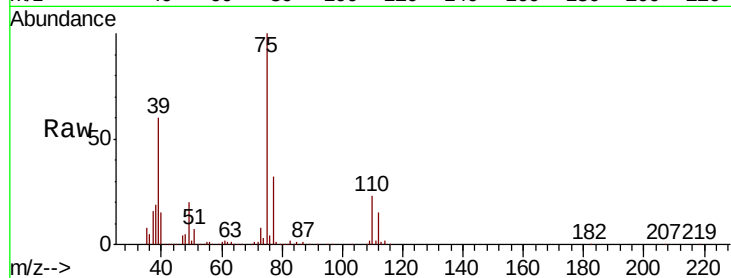
ClientSampled :

Tot Ion: 75 Resp: 211347

Ion Ratio Lower Upper

75 100

77 32.1 21.6 40.2



#43

4-Methyl-2-pentanone

Concen: 44.159 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

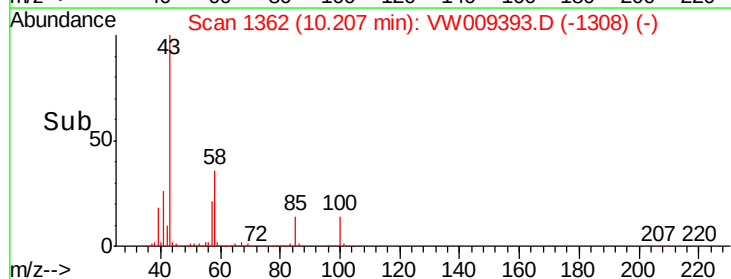
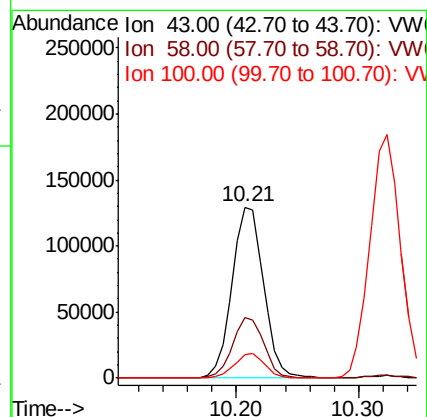
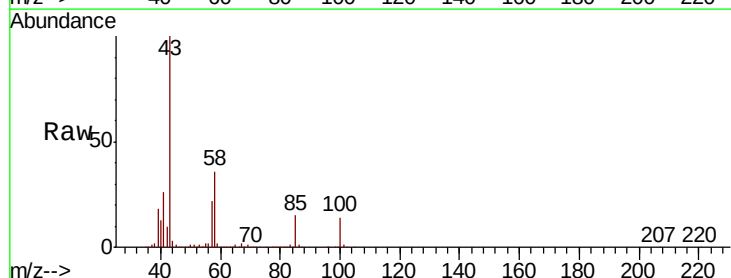
Tgt Ion: 43 Resp: 230628

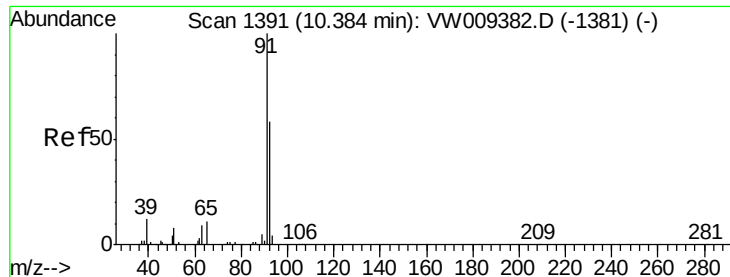
Ion Ratio Lower Upper

43 100

58 34.8 28.2 42.2

100 14.0 11.4 17.2





#44

Toluene

Concen: 23.771 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

Instrument :

MSVOA_W

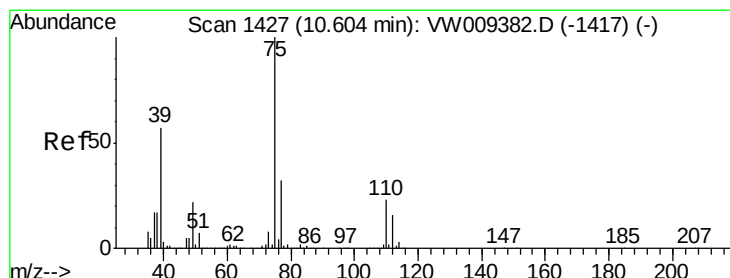
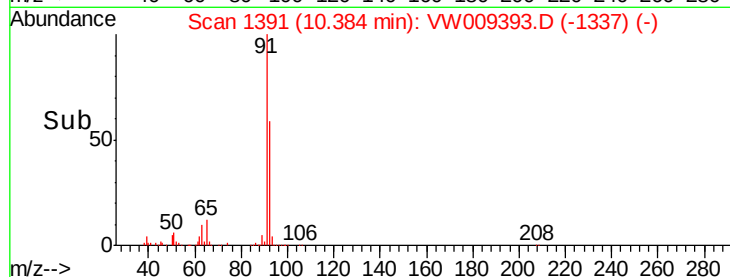
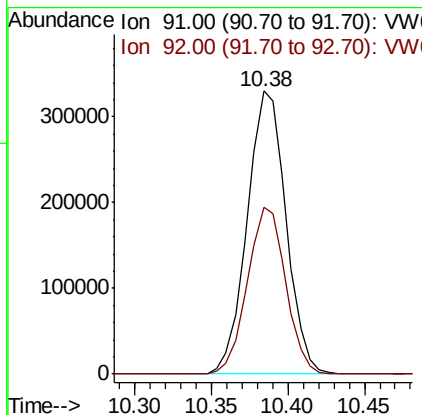
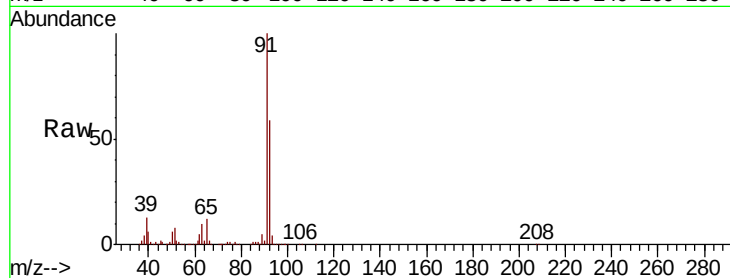
ClientSampled :

Tot Ion: 91 Resp: 583770

Ion Ratio Lower Upper

91 100

92 58.9 39.8 73.8



#45

trans-1,3-Dichloropropene

Concen: 23.010 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW009393.D

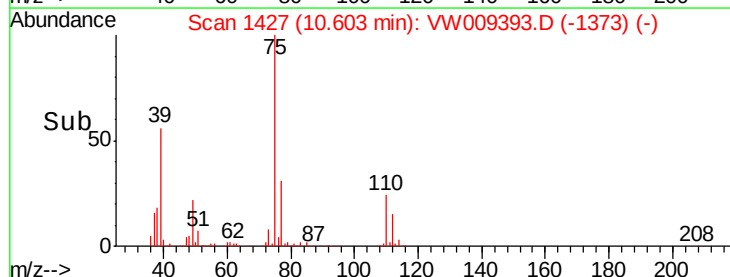
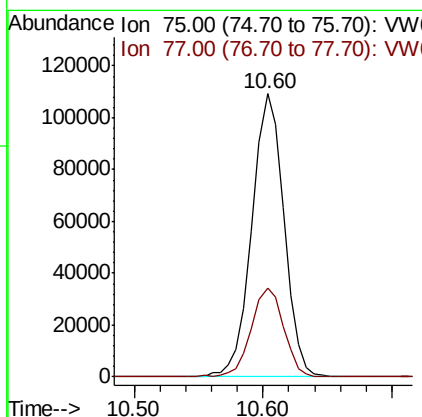
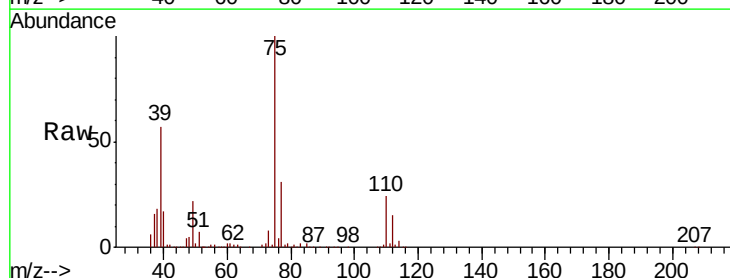
Acq: 23 Mar 2019 16:47

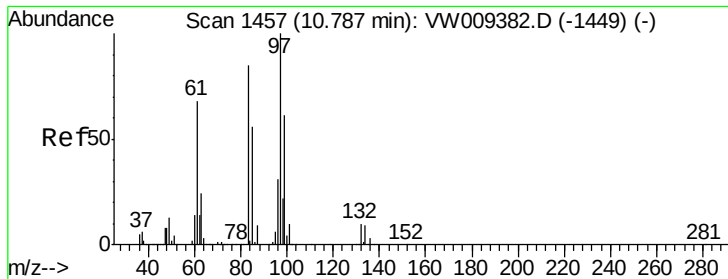
Tgt Ion: 75 Resp: 187901

Ion Ratio Lower Upper

75 100

77 31.3 22.5 41.7





#46

1,1,2-Trichloroethane

Concen: 23.403 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 97 Resp: 107613

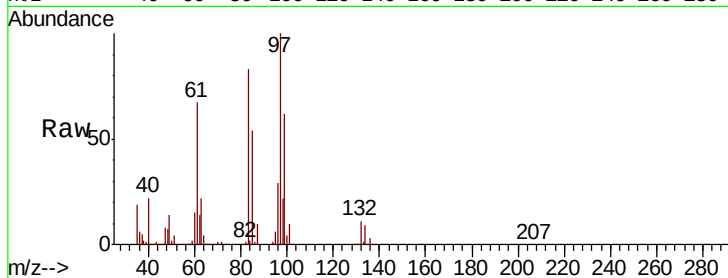
Ion Ratio Lower Upper

97 100

83 83.1 60.7 112.7

85 53.6 40.1 74.5

99 61.9 43.8 81.3



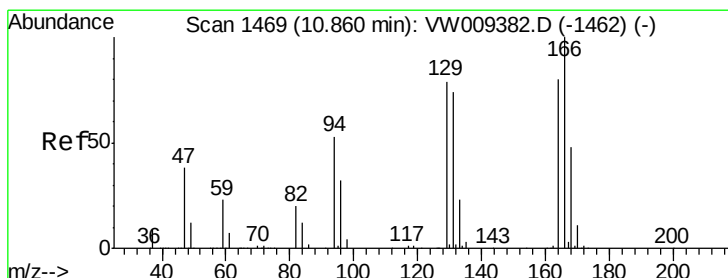
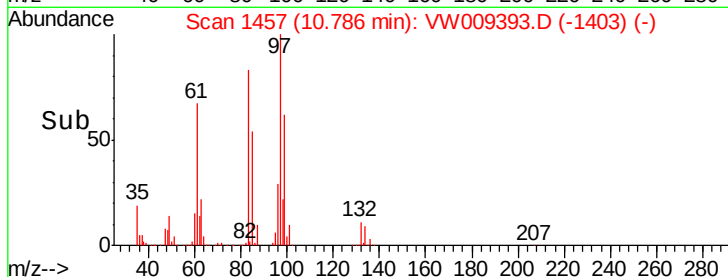
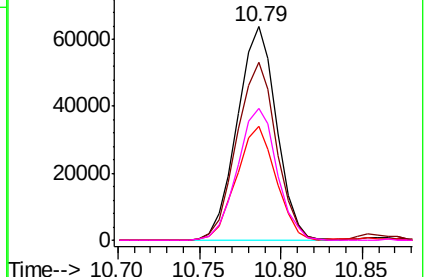
Abundance

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: 23.372 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

Tgt Ion: 164 Resp: 118189

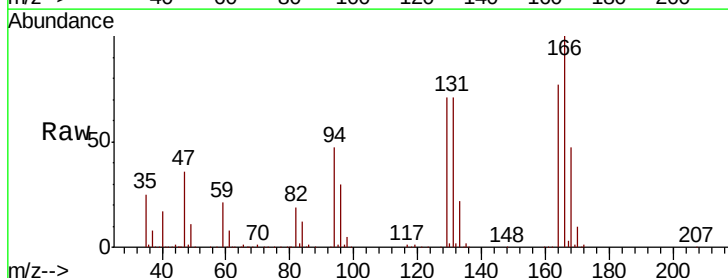
Ion Ratio Lower Upper

164 100

129 92.4 66.5 123.5

131 92.0 62.6 116.3

166 129.9 91.6 170.0



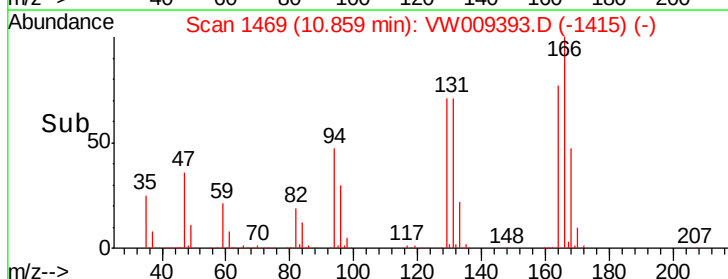
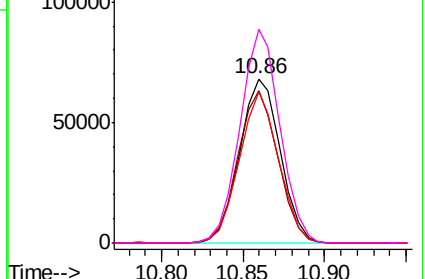
Abundance

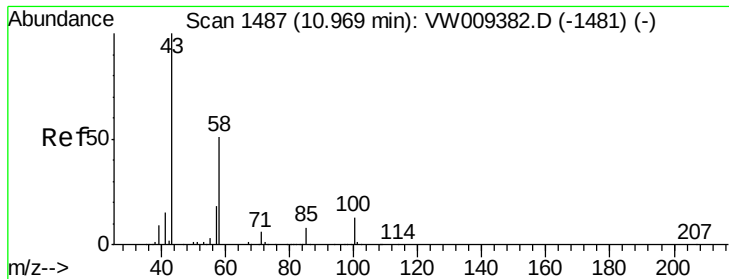
Ion 164.00 (163.70 to 164.70): V

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: 46.573 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 43 Resp: 171314

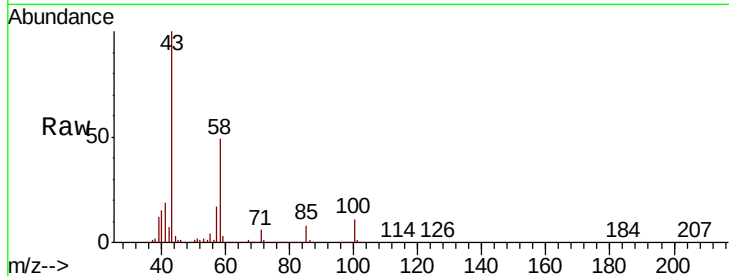
Ion Ratio Lower Upper

43 100

58 48.6 39.2 58.8

57 17.7 14.2 21.2

100 11.3 8.9 13.3

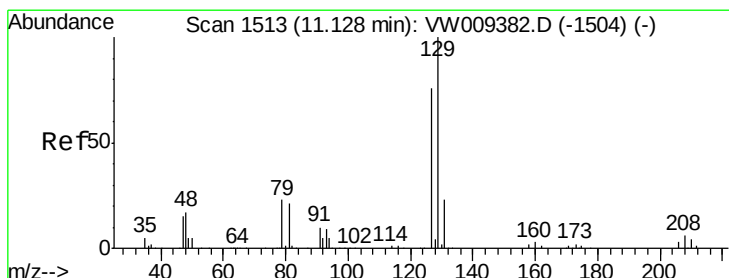
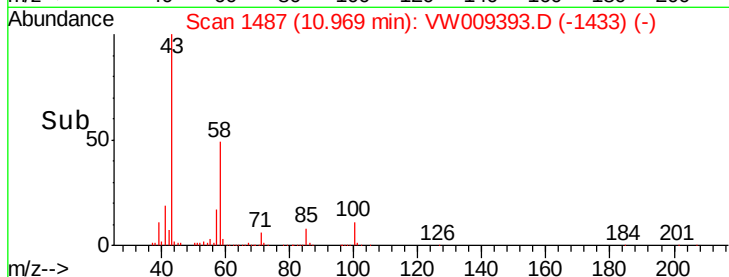
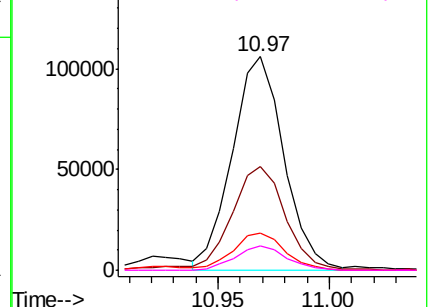


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 23.091 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW009393.D

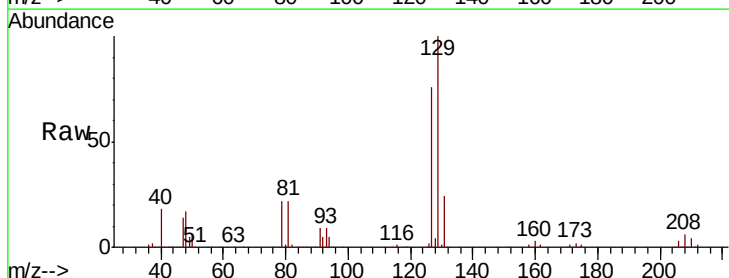
Acq: 23 Mar 2019 16:47

Tgt Ion: 129 Resp: 131068

Ion Ratio Lower Upper

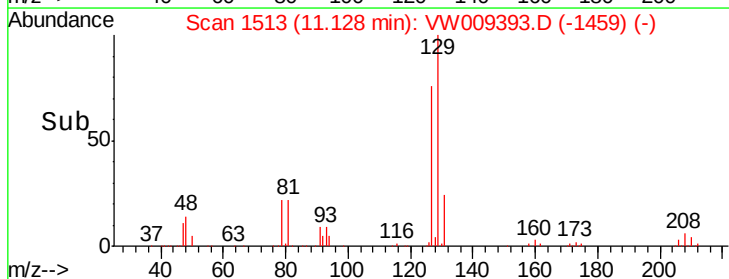
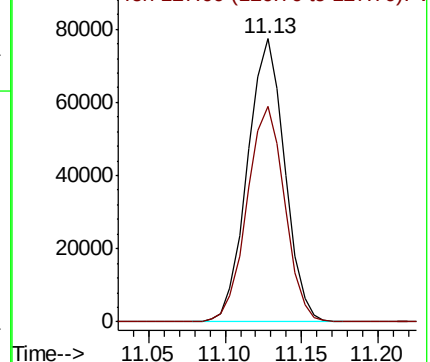
129 100

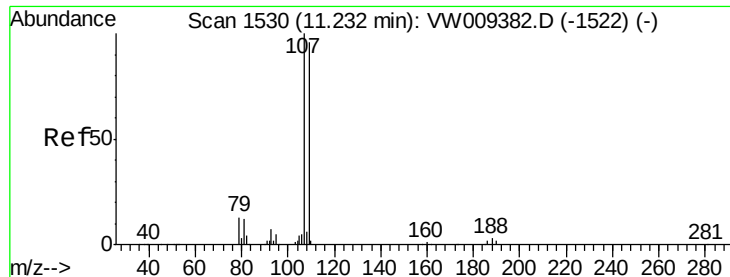
127 76.0 56.8 105.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

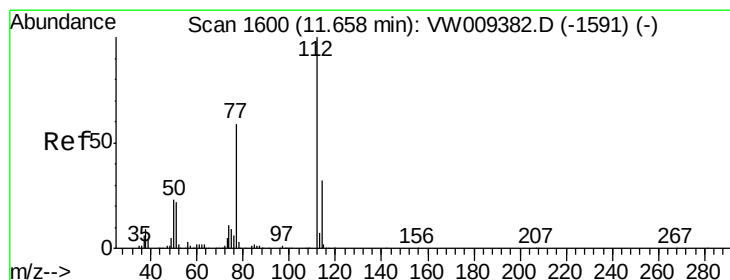
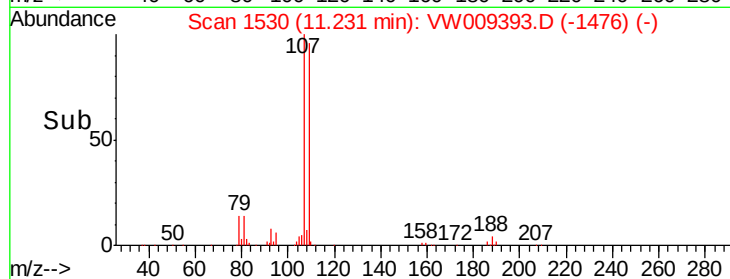
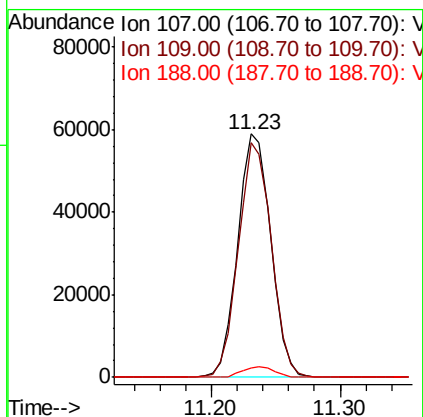
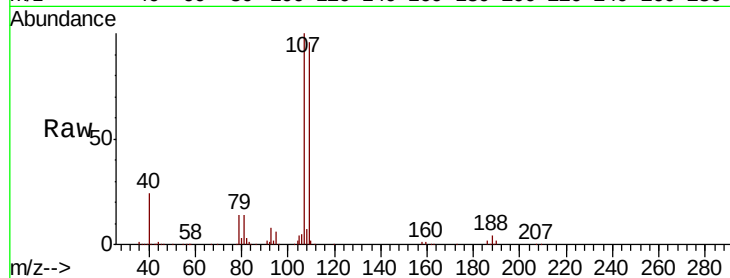




#51
1,2-Dibromoethane
Concen: 22.458 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VW009393.D
Acq: 23 Mar 2019 16:47

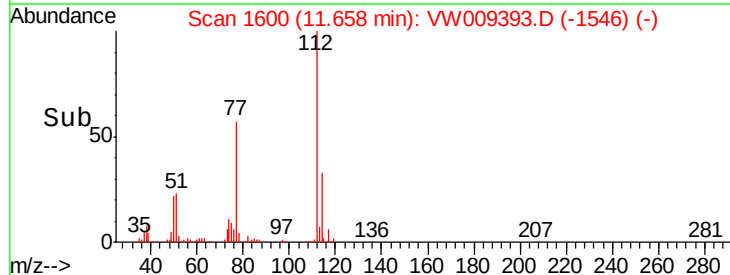
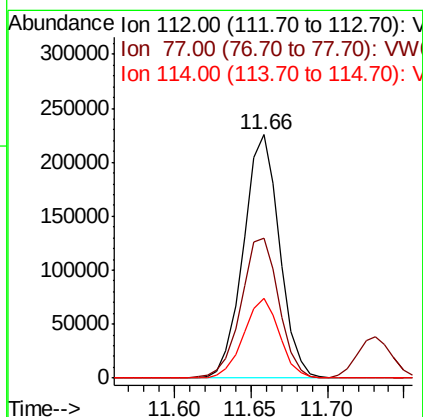
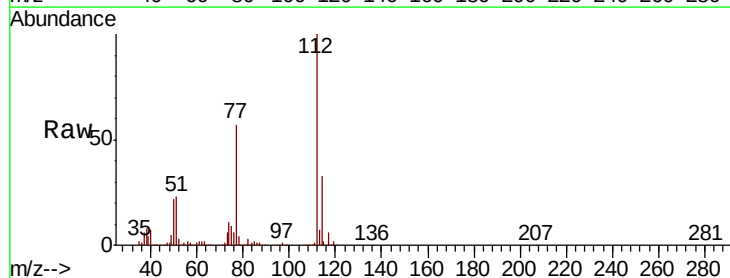
Instrument :
MSVOA_W
ClientSampleId :

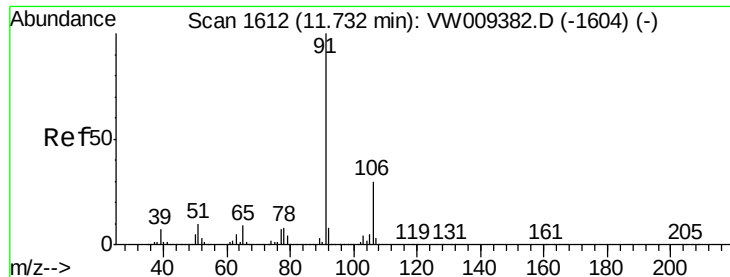
Tot Ion	Ratio	Lower	Upper
107	100		
109	96.3	68.0	126.4
188	3.7	3.5	5.3



#52
Chlorobenzene
Concen: 23.427 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW009393.D
Acq: 23 Mar 2019 16:47

Tgt Ion	Ratio	Lower	Upper
112	100		
77	57.3	45.7	68.5
114	32.6	22.8	42.4





#53

Ethylbenzene

Concen: 24.026 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

Instrument :

MSVOA_W

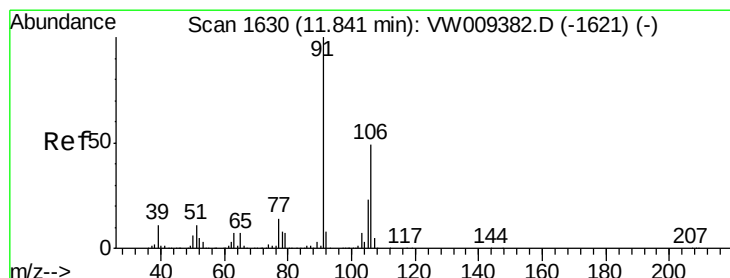
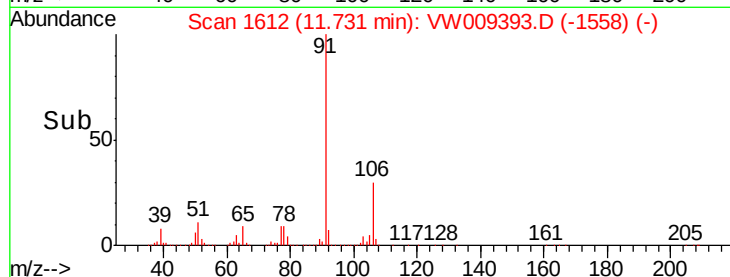
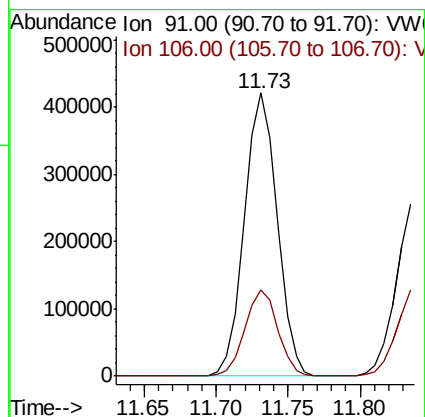
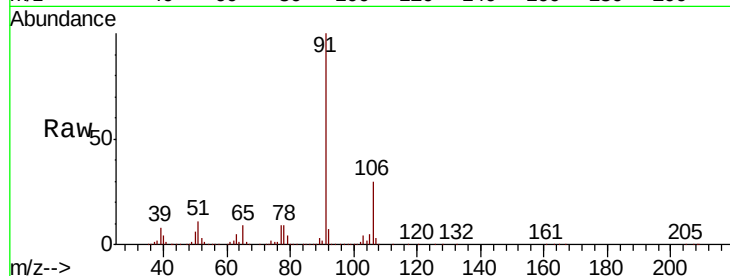
ClientSampleId :

Tot Ion: 91 Resp: 663348

Ion Ratio Lower Upper

91 100

106 30.4 21.0 39.0



#54

m,p-Xylene

Concen: 23.719 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW009393.D

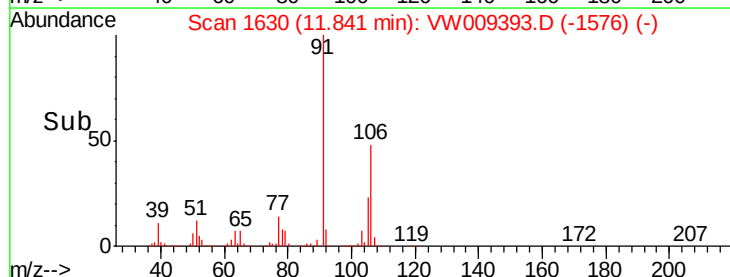
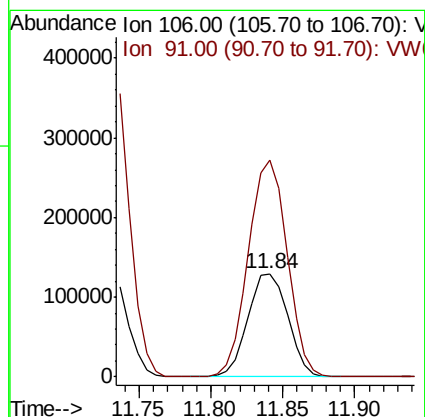
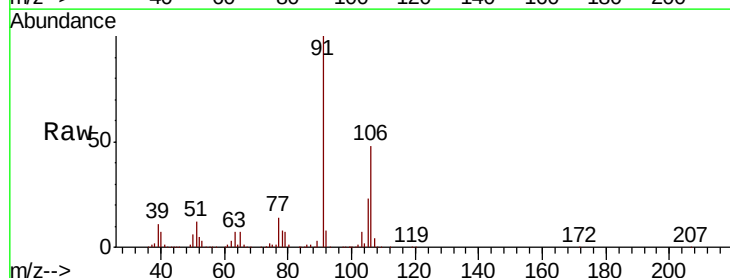
Acq: 23 Mar 2019 16:47

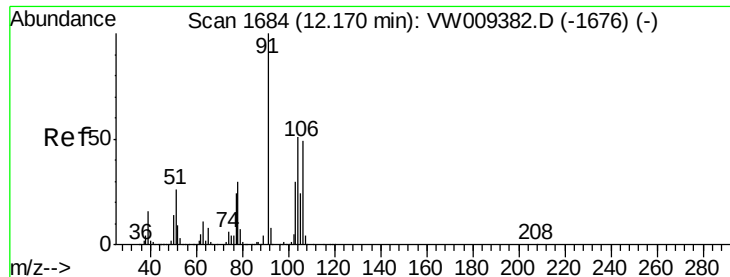
Tgt Ion: 106 Resp: 248793

Ion Ratio Lower Upper

106 100

91 210.0 138.4 257.0





#55

o-xylene

Concen: 23.115 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

Instrument :

MSVOA_W

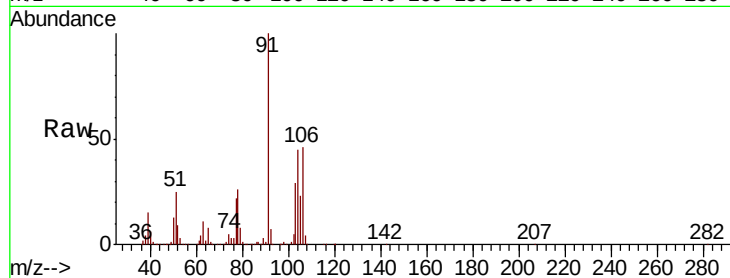
ClientSampled :

Tot Ion:106 Resp: 236542

Ion Ratio Lower Upper

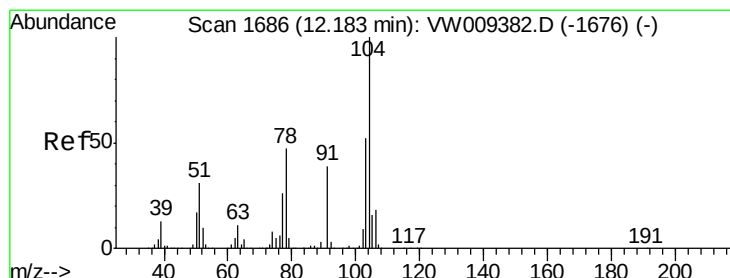
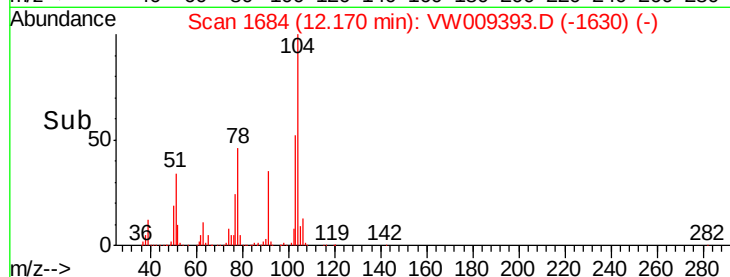
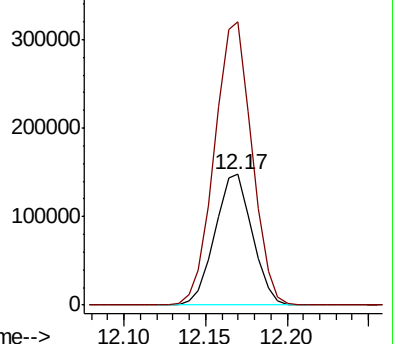
106 100

91 216.9 153.2 284.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 23.996 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW009393.D

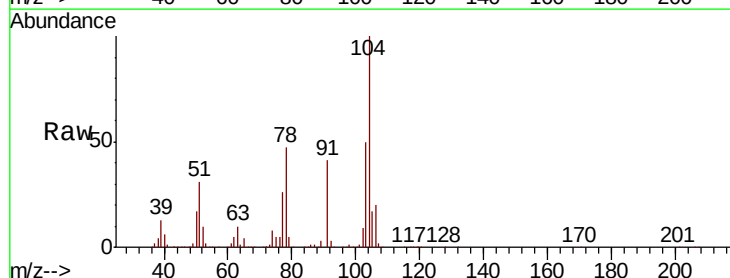
Acq: 23 Mar 2019 16:47

Tgt Ion:104 Resp: 418967

Ion Ratio Lower Upper

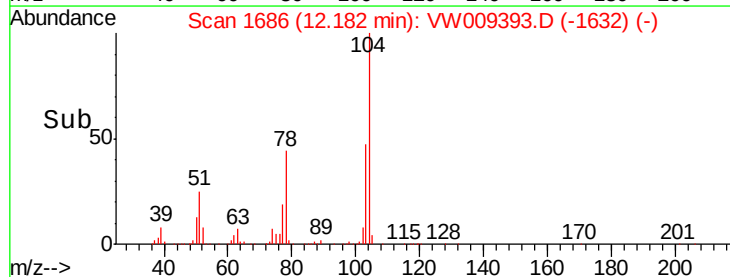
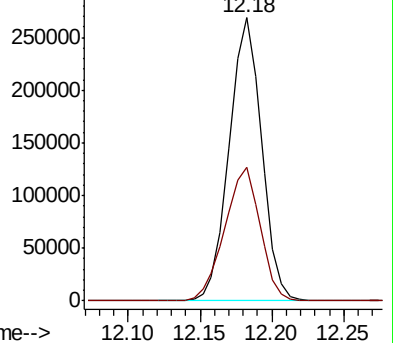
104 100

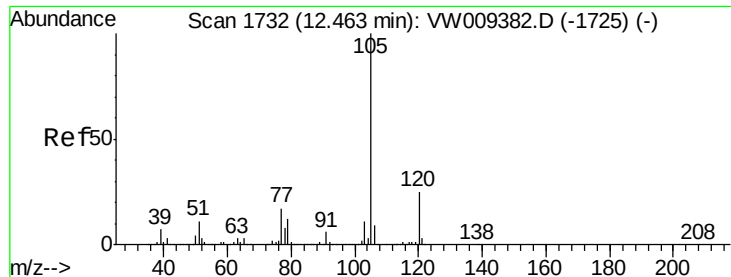
78 47.0 30.9 57.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 23.940 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

Instrument :

MSVOA_W

ClientSampled :

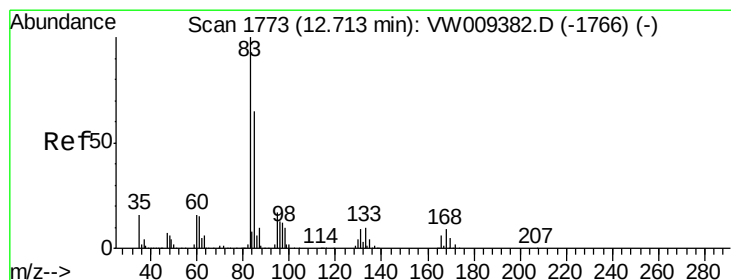
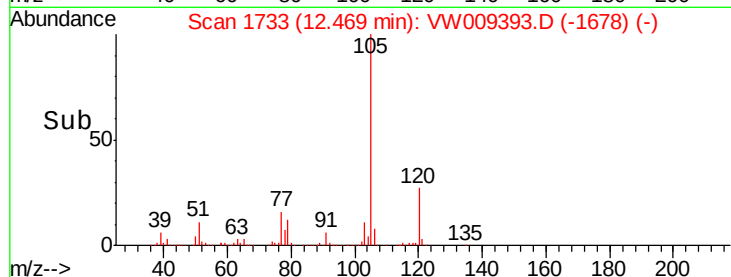
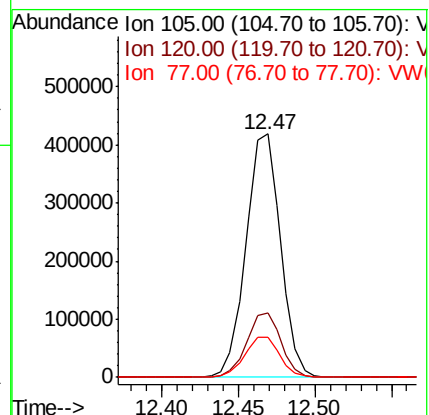
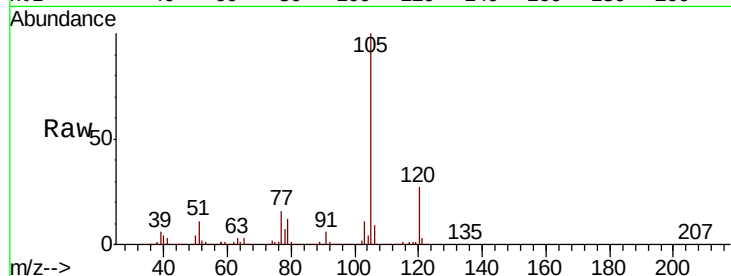
Tot Ion:105 Resp: 656255

Ion Ratio Lower Upper

105 100

120 26.4 21.3 31.9

77 16.8 13.1 19.7



#58

1,1,2,2-Tetrachloroethane

Concen: 23.305 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

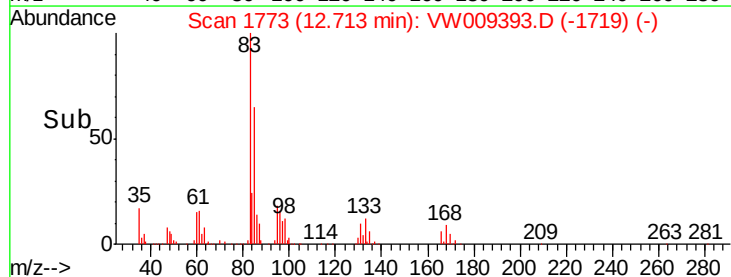
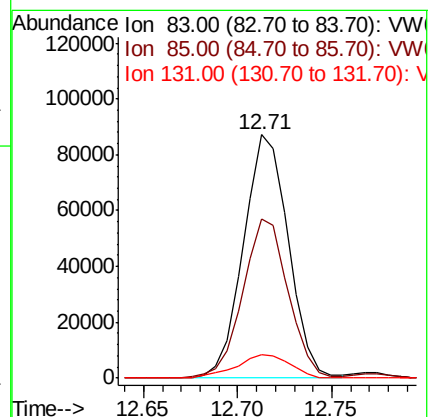
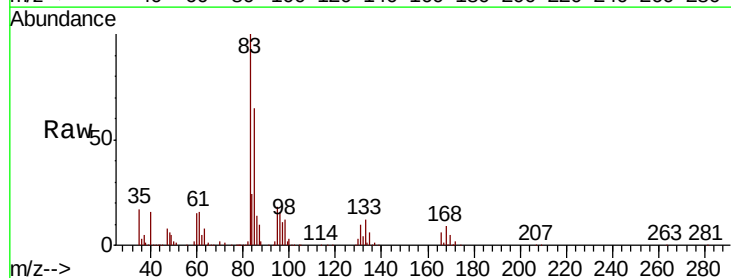
Tgt Ion: 83 Resp: 144563

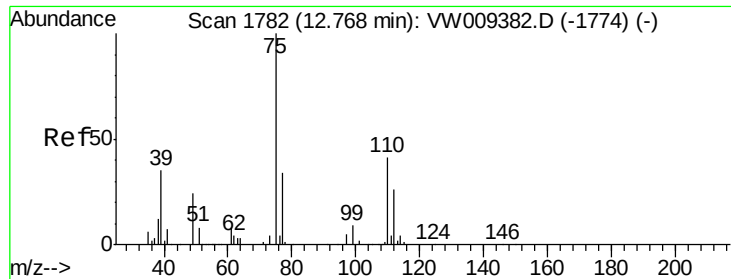
Ion Ratio Lower Upper

83 100

85 65.4 45.6 84.8

131 9.5 9.2 13.8

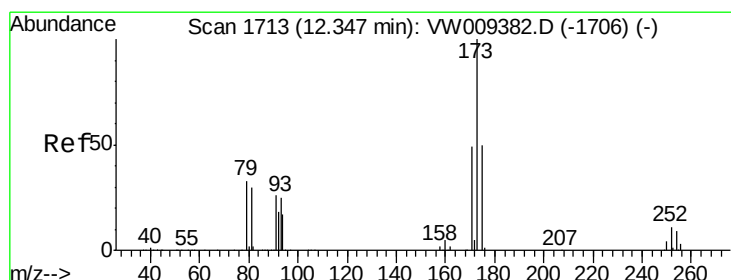
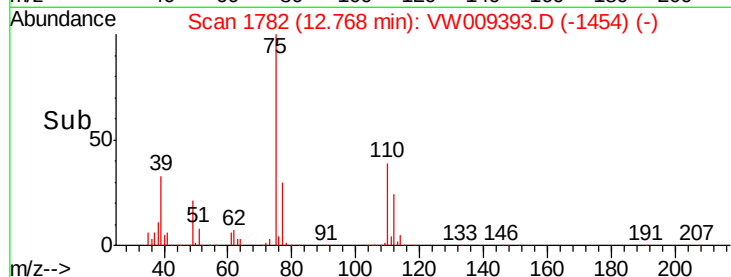
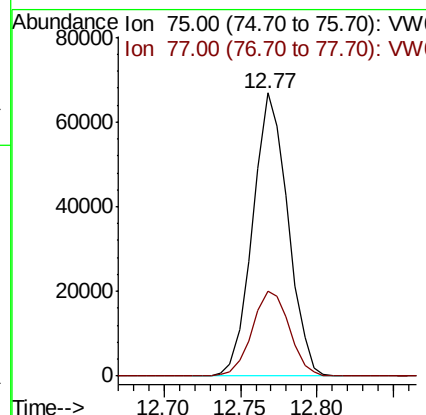
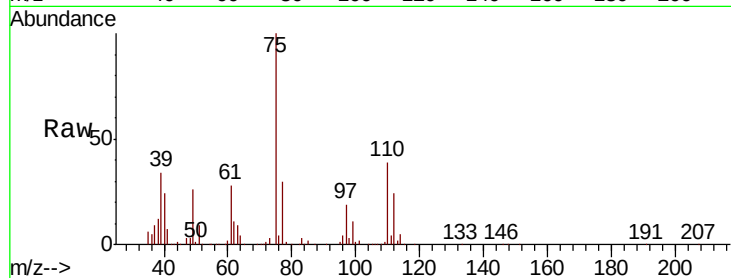




#59
 1,2,3-Trichloropropane
 Concen: 23.266 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. -0.00 min
 Lab File: VW009393.D
 Acq: 23 Mar 2019 16:47

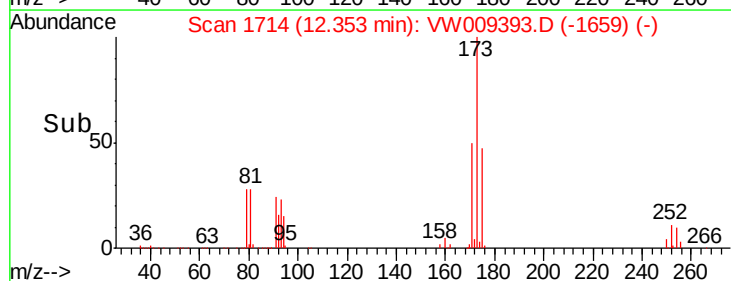
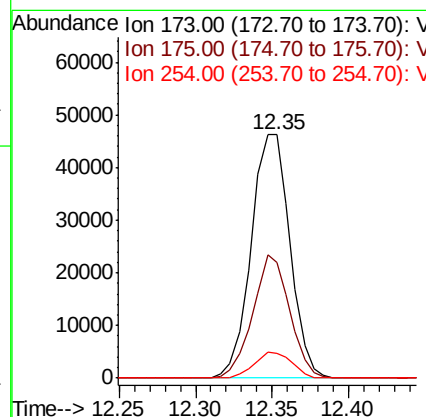
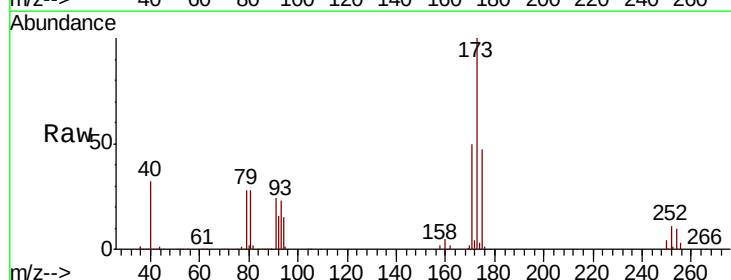
Instrument :
 MSVOA_W
 ClientSampleId :

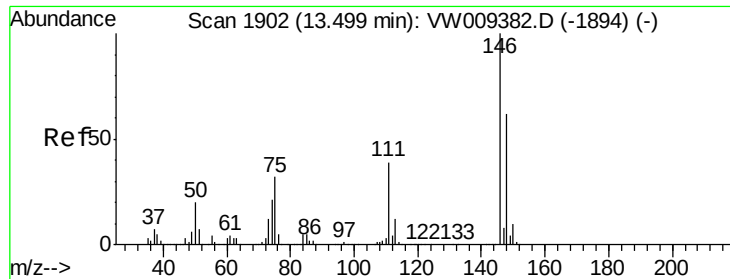
Tot Ion: 75 Resp: 107108
 Ion Ratio Lower Upper
 75 100
 77 31.6 26.2 39.2



#62
 Bromoform
 Concen: 22.540 ug/L
 RT: 12.35 min Scan# 1714
 Delta R.T. 0.01 min
 Lab File: VW009393.D
 Acq: 23 Mar 2019 16:47

Tgt Ion: 173 Resp: 81609
 Ion Ratio Lower Upper
 173 100
 175 47.8 39.7 59.5
 254 10.2 8.5 12.7

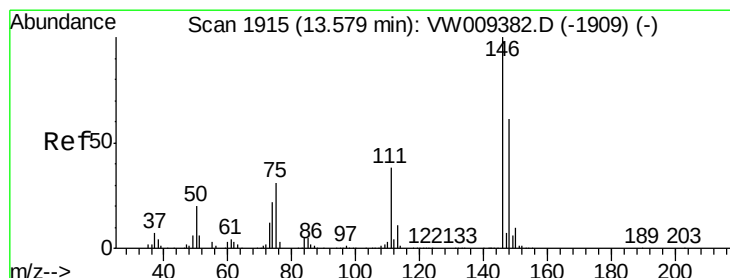
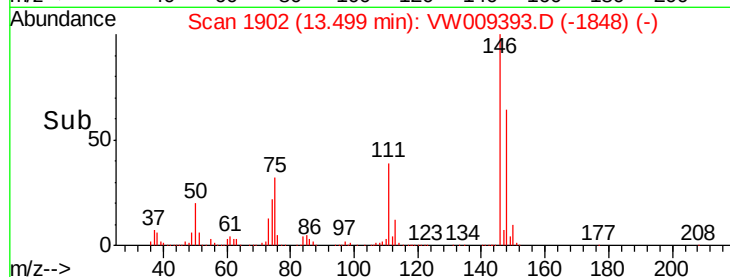
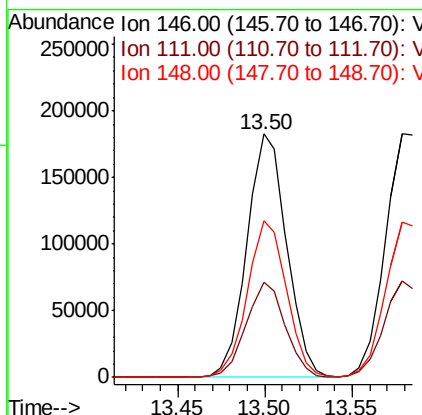
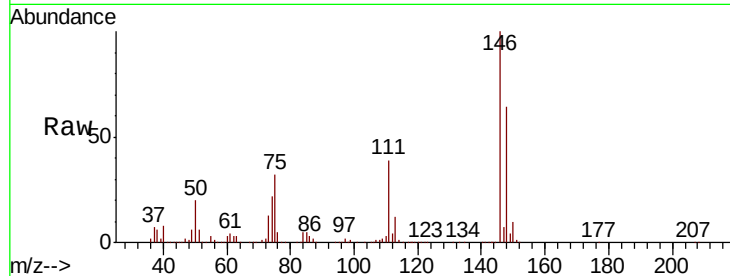




#63
 1,3-Dichlorobenzene
 Concen: 22.560 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW009393.D
 Acq: 23 Mar 2019 16:47

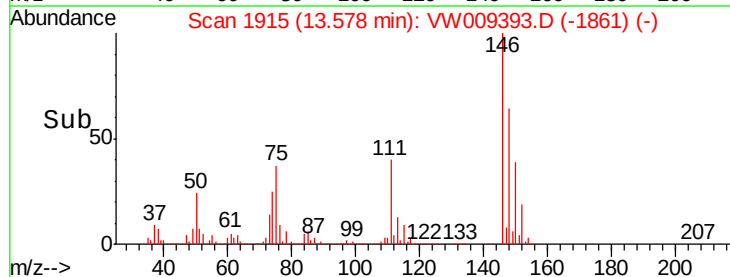
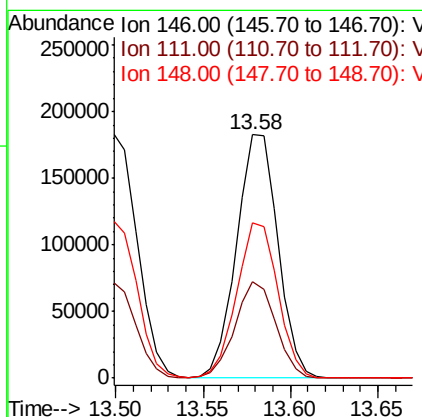
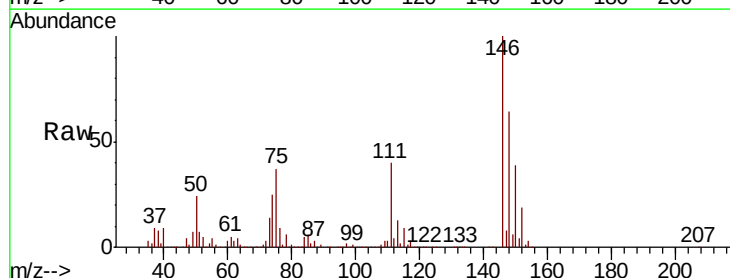
Instrument :
 MSVOA_W
 ClientSampleId :

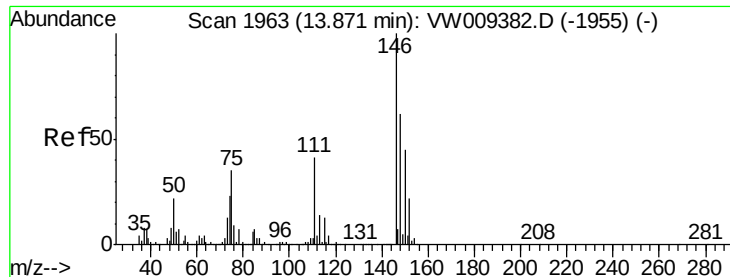
Tot Ion:146 Resp: 288118
 Ion Ratio Lower Upper
 146 100
 111 38.9 26.9 49.9
 148 64.2 45.1 83.7



#64
 1,4-Dichlorobenzene
 Concen: 22.834 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW009393.D
 Acq: 23 Mar 2019 16:47

Tgt Ion:146 Resp: 301506
 Ion Ratio Lower Upper
 146 100
 111 39.9 27.8 51.6
 148 64.1 46.3 86.1

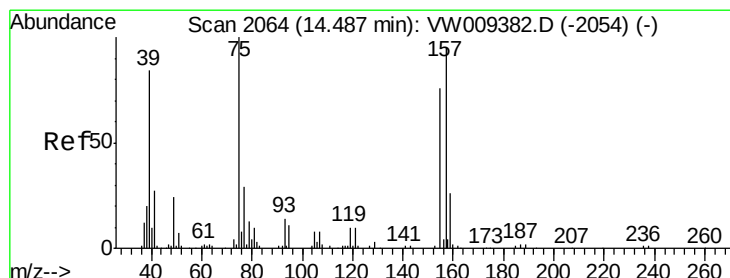
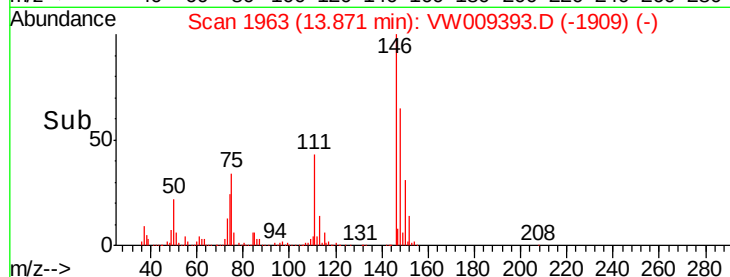
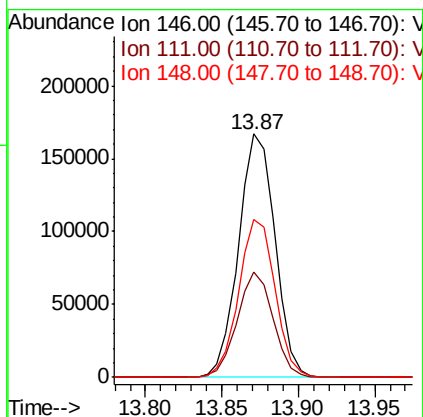
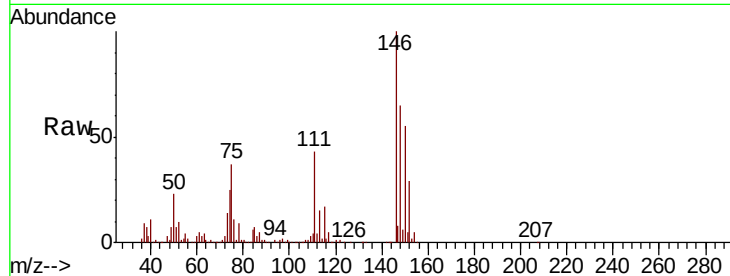




#65
 1,2-Dichlorobenzene
 Concen: 22.726 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW009393.D
 Acq: 23 Mar 2019 16:47

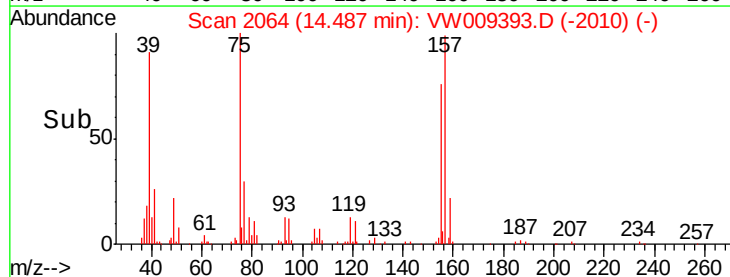
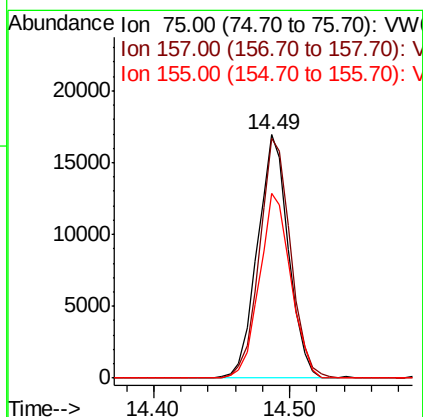
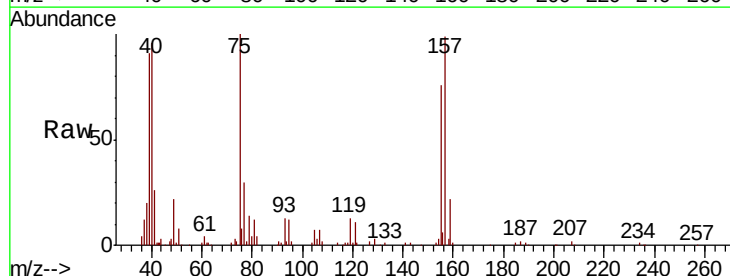
Instrument :
 MSVOA_W
 ClientSampleId :

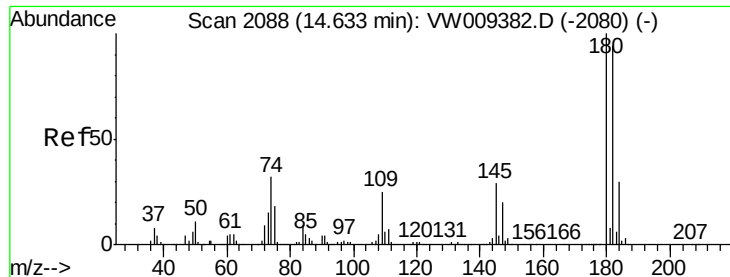
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.4	33.5	50.3
148	64.6	50.2	75.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 22.607 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW009393.D
 Acq: 23 Mar 2019 16:47

Tgt Ion	Ratio	Lower	Upper
75	100		
157	98.6	89.0	133.4
155	76.1	64.2	96.2

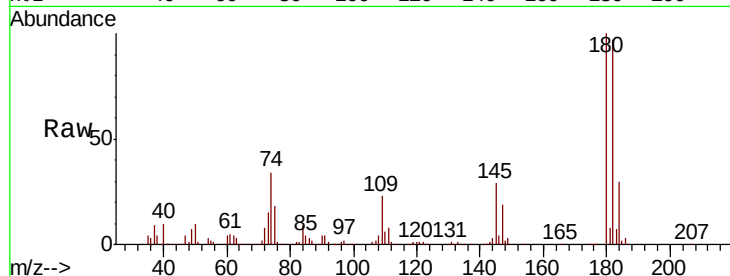




#67
 1,3,5-Trichlorobenzene
 Concen: 23.157 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VW009393.D
 Acq: 23 Mar 2019 16:47

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.6	76.1	114.1
184	29.6	23.8	35.6
145	29.2	23.4	35.2



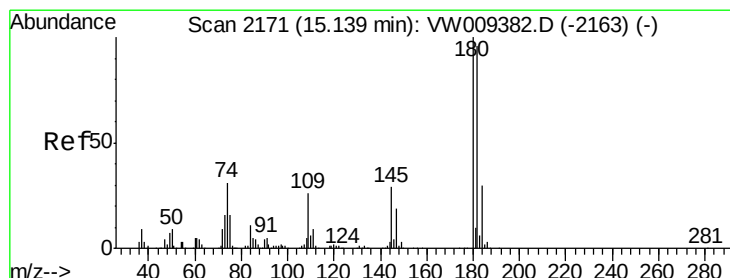
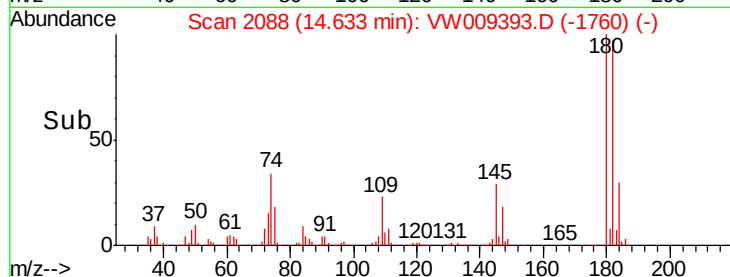
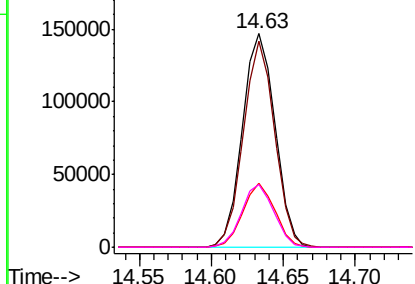
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

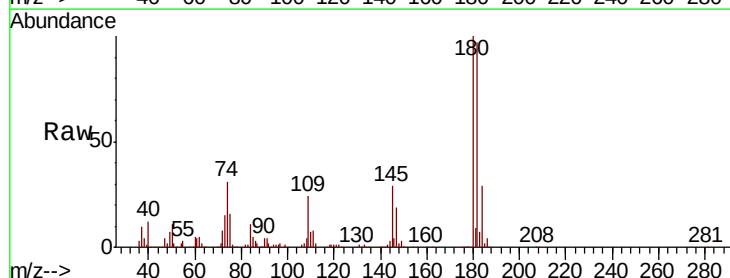
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 22.145 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW009393.D
 Acq: 23 Mar 2019 16:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.5	113.3
145	30.5	24.1	36.1

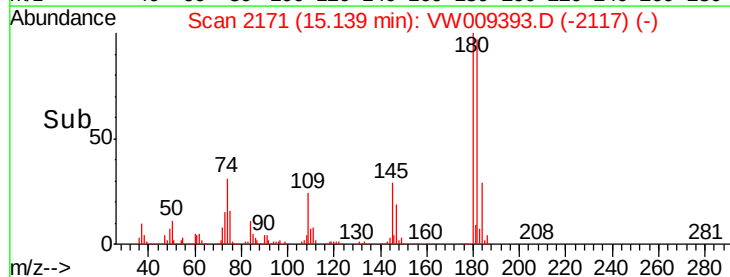
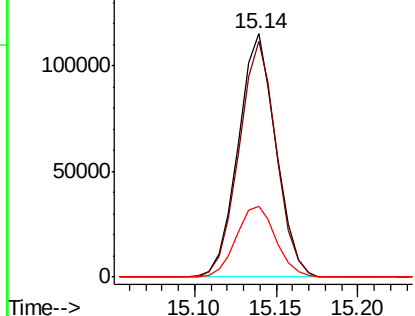


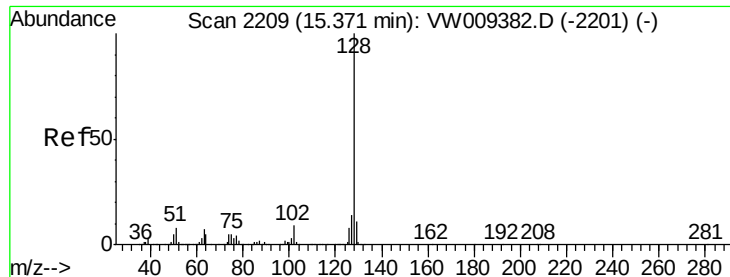
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 22.431 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

Instrument :

MSVOA_W

ClientSampleId :

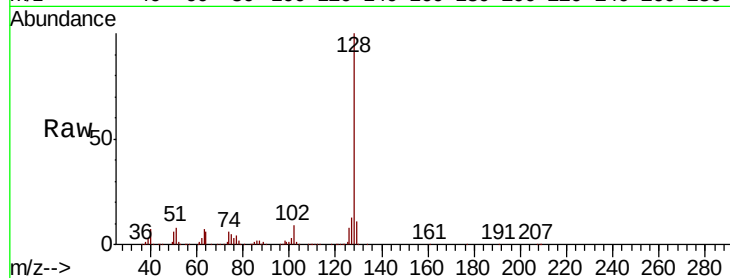
Tot Ion:128 Resp: 389126

Ion Ratio Lower Upper

128 100

129 10.8 8.7 13.1

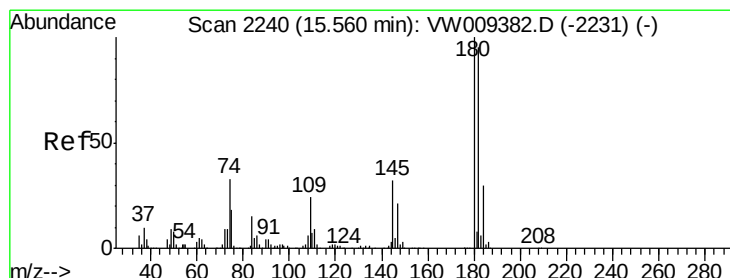
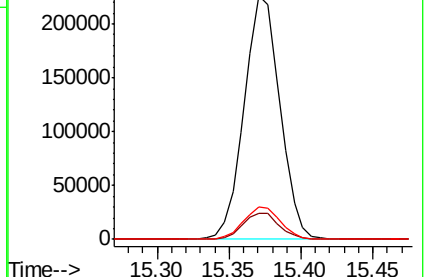
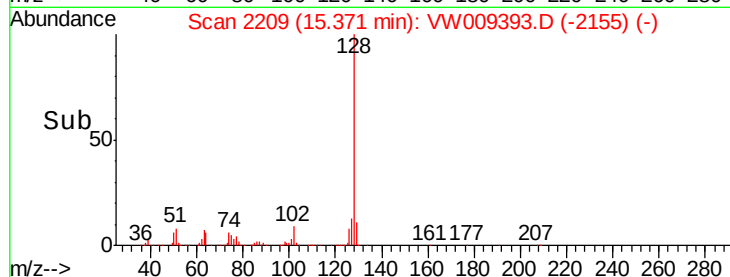
127 13.6 11.1 16.7



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: 22.859 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW009393.D

Acq: 23 Mar 2019 16:47

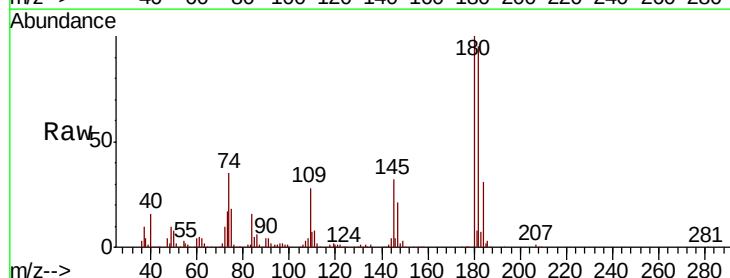
Tgt Ion:180 Resp: 179150

Ion Ratio Lower Upper

180 100

182 94.8 77.2 115.8

145 31.3 25.8 38.6



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

