

Data File : VW004402.D
Acq On : 02 Aug 2018 14:34
Operator : SY/AP
Sample : VSTD10093
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD10093

Quant Time: Aug 02 14:55:59 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM080218S.M
Quant Title : VOC Analysis
QLast Update : Thu Aug 02 14:26:10 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	1084903	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	1026857	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	549827	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	1157784	136.97	ug/L	0.00
7) Chloroethane-d5	2.89	69	1011037	121.08	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.01	63	2475016	101.41	ug/L	0.00
20) 2-Butanone-d5	7.09	46	1243550	237.27	ug/L	0.00
24) Chloroform-d	7.65	84	2594780	96.75	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	1459498	97.18	ug/L	0.00
29) Benzene-d6	8.28	84	5136270	96.85	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.28	67	1688176	102.77	ug/L	0.00
37) Toluene-d8	10.33	98	4686659	92.49	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.59	79	729750	91.92	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	1040668	246.71	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.70	84	1832625	106.80	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.86	152	1873003	89.13	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	1127917	113.857	ug/L	93
3) Chloromethane	2.22	50	1495546	159.084	ug/L	99
5) Vinyl chloride	2.37	62	1807327	155.732	ug/L	98
6) Bromomethane	2.78	94	1047669	126.051	ug/L	99
8) Chloroethane	2.92	64	1115686	136.717	ug/L	100
9) Trichlorofluoromethane	3.25	101	897194	92.213	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	1474660	102.814	ug/L	99
12) 1,1-Dichloroethene	4.03	96	1441910	107.054	ug/L	92
13) Acetone	4.14	43	887517	193.550	ug/L	98
14) Carbon disulfide	4.37	76	4391076	110.220	ug/L	100
15) Methyl Acetate	4.67	43	1026407	112.267	ug/L	100
16) Methylene chloride	4.91	84	1532901	89.397	ug/L	99
17) Methyl tert-butyl Ether	5.43	73	2126789	100.532	ug/L	98
18) trans-1,2-Dichloroethene	5.42	96	1496981	102.399	ug/L	98
19) 1,1-Dichloroethane	6.21	63	2776672	109.248	ug/L	99
21) 2-Butanone	7.18	43	1440683	230.529	ug/L	98
22) cis-1,2-Dichloroethene	7.17	96	1718210	106.636	ug/L	99
23) Bromochloromethane	7.51	128	752008	99.369	ug/L	99
25) Chloroform	7.68	83	2783694	104.100	ug/L	100
27) 1,2-Dichloroethane	8.40	62	1871043	103.591	ug/L	99
30) Cyclohexane	7.96	56	2748225	113.328	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	2102288	93.430	ug/L	99
32) Carbon tetrachloride	8.07	117	2065162	94.236	ug/L	100
34) Benzene	8.32	78	6298663	105.811	ug/L	100
35) Trichloroethene	9.09	95	1594707	100.079	ug/L	99
36) Methylcyclohexane	9.34	83	3030023	106.605	ug/L	99
40) 1,2-Dichloropropane	9.37	63	1648586	110.406	ug/L	100
41) Bromodichloromethane	9.65	83	1995905	103.311	ug/L	96
42) cis-1,3-Dichloropropene	10.07	75	2503912	106.903	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	2881319	238.348	ug/L	99

Data File : VW004402.D
Acq On : 02 Aug 2018 14:34
Operator : SY/AP
Sample : VSTD10093
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD10093

Quant Time: Aug 02 14:55:59 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM080218S.M
Quant Title : VOC Analysis
QLast Update : Thu Aug 02 14:26:10 2018
Response via : Initial Calibration

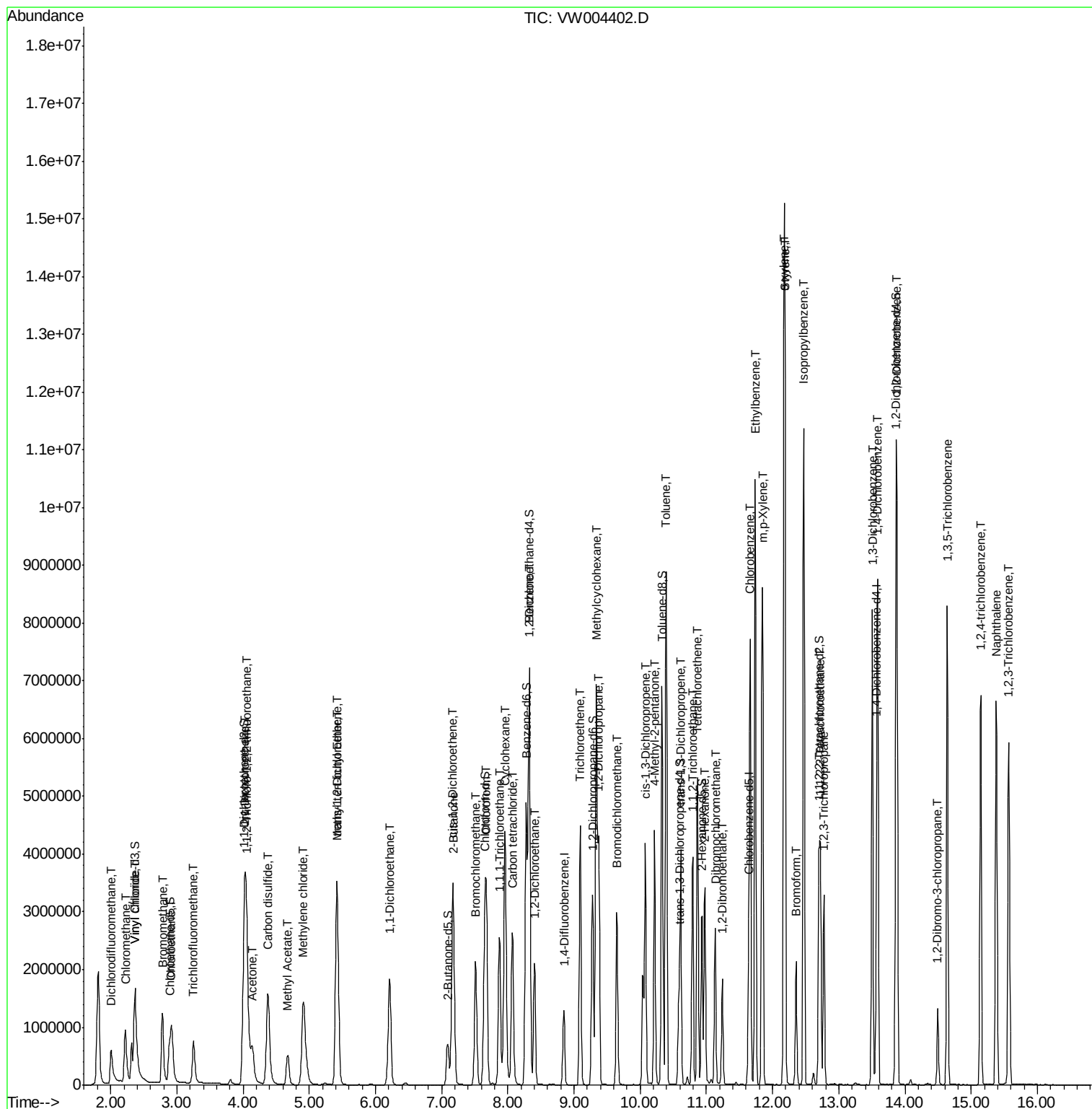
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.39	91	6435881	100.540	ug/L	100
45) trans-1,3-Dichloropropene	10.61	75	2218210	105.487	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	1266578	102.859	ug/L	98
47) Tetrachloroethene	10.87	164	1228248	89.769	ug/L	98
49) 2-Hexanone	10.98	43	2117094	235.635	ug/L	97
50) Dibromochloromethane	11.13	129	1464645	97.636	ug/L	100
51) 1,2-Dibromoethane	11.24	107	1250441	102.460	ug/L	98
52) Chlorobenzene	11.66	112	4177334	98.038	ug/L	99
53) Ethylbenzene	11.74	91	7382259	101.940	ug/L	98
54) m,p-Xylene	11.85	106	2801741	102.279	ug/L	96
55) o-xylene	12.17	106	2731169	105.562	ug/L	97
56) Styrene	12.19	104	4771966	106.549	ug/L	100
57) Isopropylbenzene	12.47	105	7384258	101.796	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.72	83	1875468	110.936	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	1415584	108.755	ug/L	99
62) Bromoform	12.35	173	985018	96.037	ug/L	100
63) 1,3-Dichlorobenzene	13.51	146	3346431	94.359	ug/L	98
64) 1,4-Dichlorobenzene	13.59	146	3443619	94.377	ug/L	98
65) 1,2-Dichlorobenzene	13.88	146	3232991	96.428	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	343033	103.837	ug/L	99
67) 1,3,5-Trichlorobenzene	14.64	180	2593673	92.246	ug/L	99
68) 1,2,4-trichlorobenzene	15.15	180	2222787	93.088	ug/L	99
69) Naphthalene	15.38	128	5582117	103.440	ug/L	100
70) 1,2,3-Trichlorobenzene	15.57	180	2081657	94.213	ug/L	100

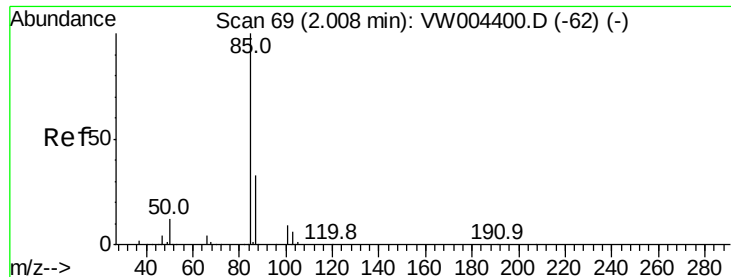
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VW004402.D
Acq On : 02 Aug 2018 14:34
Operator : SY/AP
Sample : VSTD10093
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
Client Sample Id :
VSTD10093

Quant Time: Aug 02 14:55:59 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM080218S.M
Quant Title : VOC Analysis
QLast Update : Thu Aug 02 14:26:10 2018
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 113.857 ug/L

RT: 2.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VW004402.D

Acq: 02 Aug 2018 14:34

Instrument :

MSVOA_W

ClientSampleId :

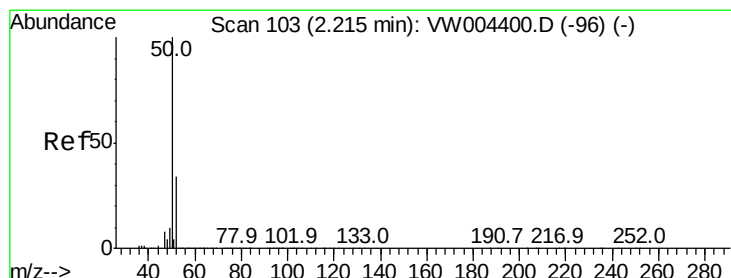
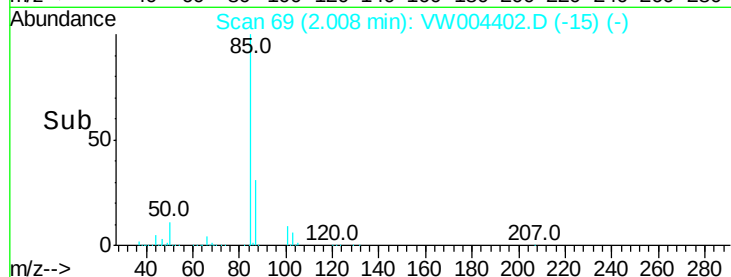
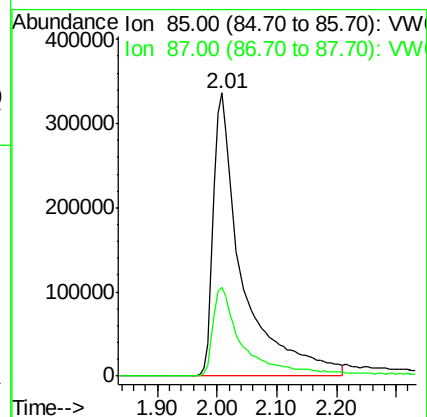
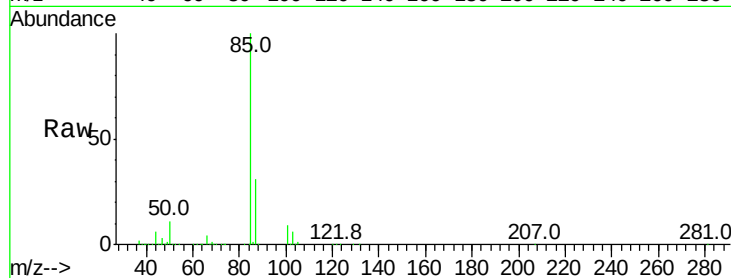
VSTD10093

Tgt Ion: 85 Resp: 1127917

Ion Ratio Lower Upper

85 100

87 32.4 20.2 37.4



#3

Chloromethane

Concen: 159.084 ug/L

RT: 2.22 min Scan# 104

Delta R.T. 0.01 min

Lab File: VW004402.D

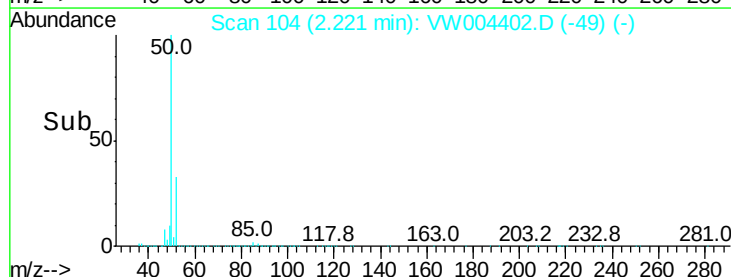
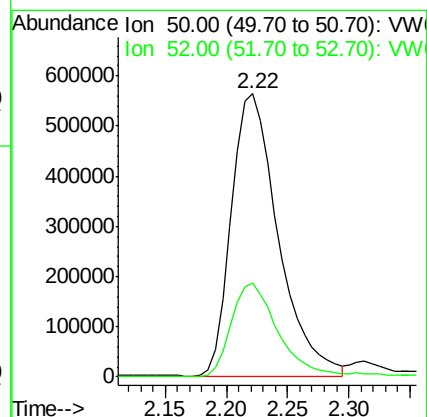
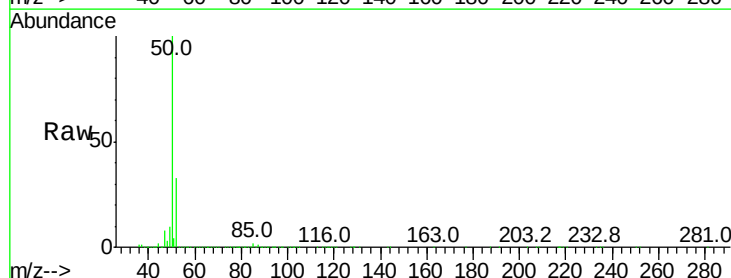
Acq: 02 Aug 2018 14:34

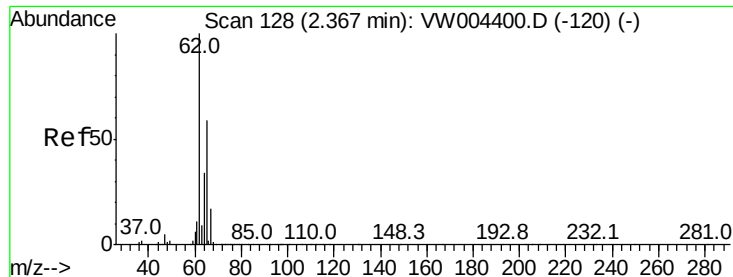
Tgt Ion: 50 Resp: 1495546

Ion Ratio Lower Upper

50 100

52 33.1 23.4 43.6





#5

Vinyl chloride

Concen: 155.732 ug/L

RT: 2.37 min Scan# 128

Delta R.T. 0.00 min

Lab File: VW004402.D

Acq: 02 Aug 2018 14:34

Instrument :

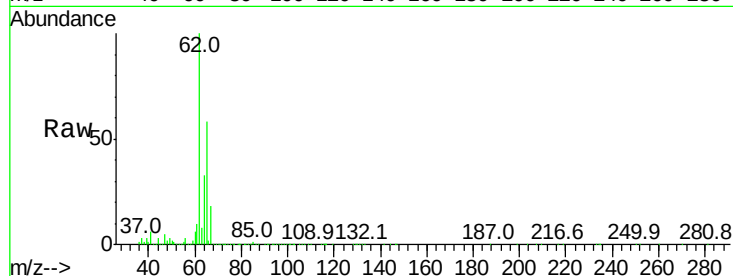
MSVOA_W

ClientSampleId :

VSTD10093

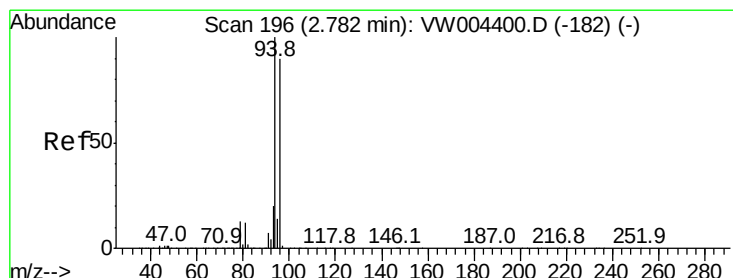
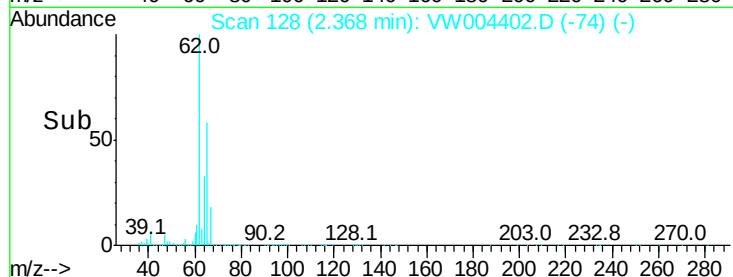
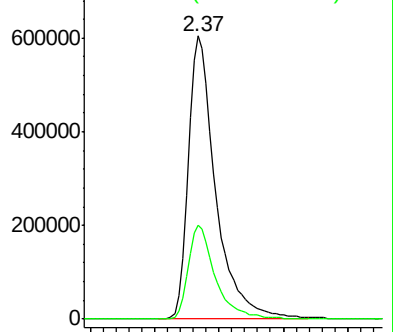
Tgt Ion: 62 Resp: 1807327

Ion	Ratio	Lower	Upper
62	100		
64	33.3	24.0	44.6



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#6

Bromomethane

Concen: 126.051 ug/L

RT: 2.78 min Scan# 196

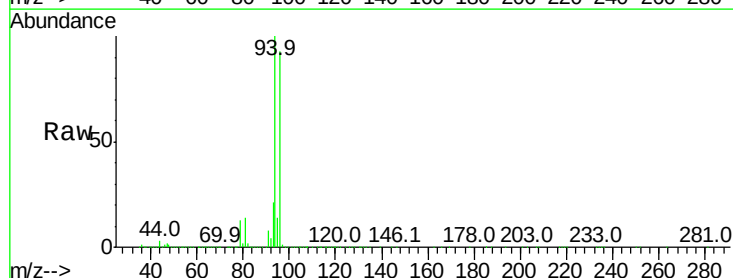
Delta R.T. 0.00 min

Lab File: VW004402.D

Acq: 02 Aug 2018 14:34

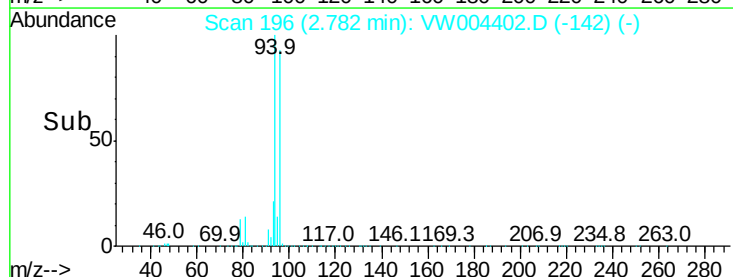
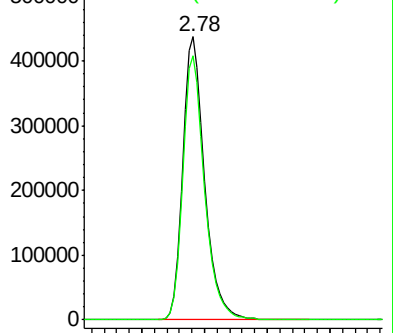
Tgt Ion: 94 Resp: 1047669

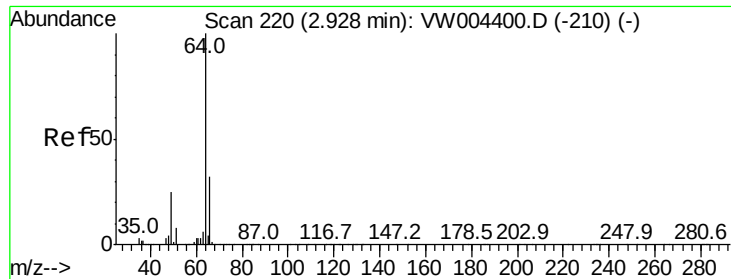
Ion	Ratio	Lower	Upper
94	100		
96	93.1	9.2	175.2



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW





#8

Chloroethane

Concen: 136.717 ug/L

RT: 2.92 min Scan# 219

Delta R.T. -0.01 min

Lab File: VW004402.D

Acq: 02 Aug 2018 14:34

Instrument :

MSVOA_W

ClientSampleId :

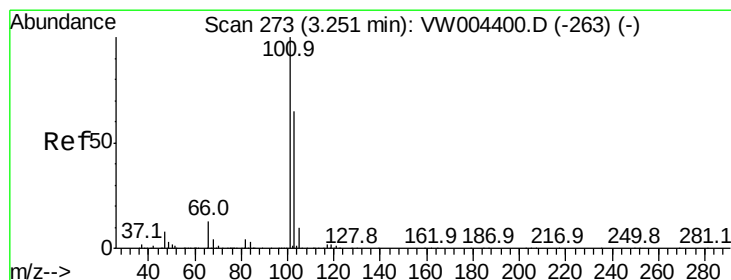
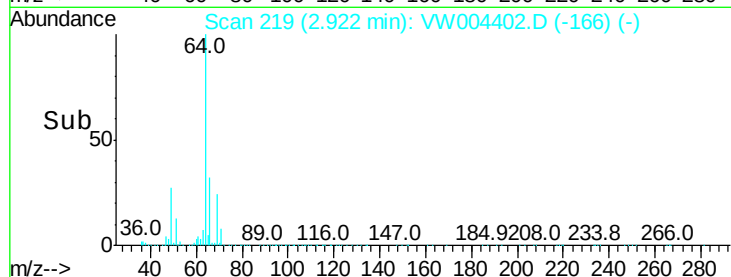
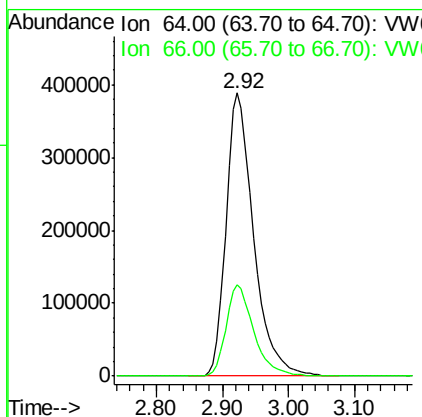
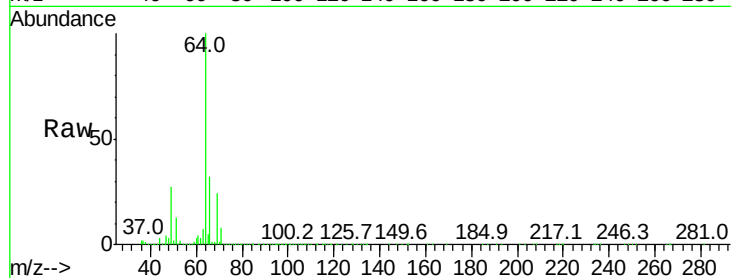
VSTD10093

Tgt Ion: 64 Resp: 1115686

Ion Ratio Lower Upper

64 100

66 32.4 22.8 42.4



#9

Trichlorofluoromethane

Concen: 92.213 ug/L

RT: 3.25 min Scan# 273

Delta R.T. 0.00 min

Lab File: VW004402.D

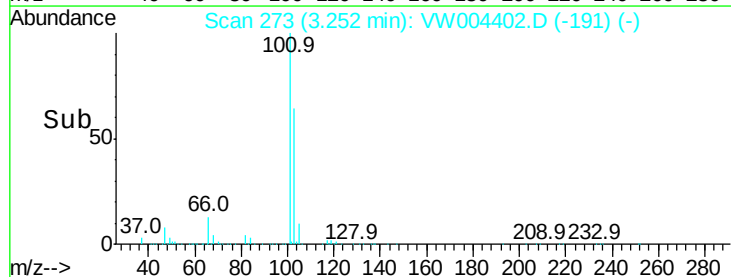
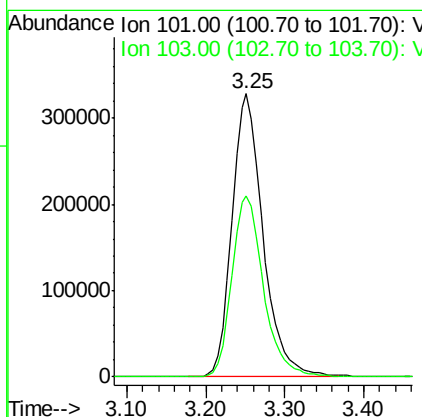
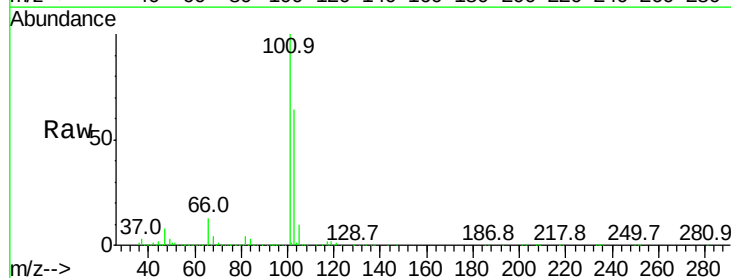
Acq: 02 Aug 2018 14:34

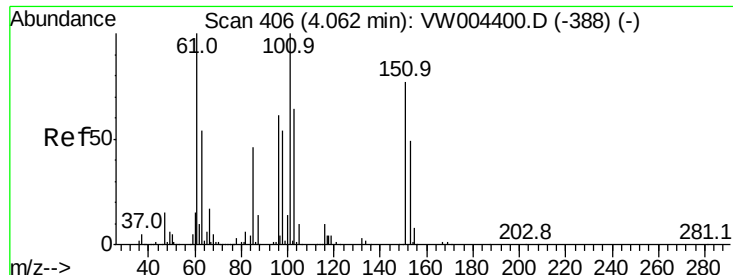
Tgt Ion: 101 Resp: 897194

Ion Ratio Lower Upper

101 100

103 65.1 45.3 84.1





#11

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

Concen: 102.814 ug/L

RT: 4.06 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW004402.D

Acq: 02 Aug 2018 14:34

Instrument :

MSVOA_W

ClientSampleId :

VSTD10093

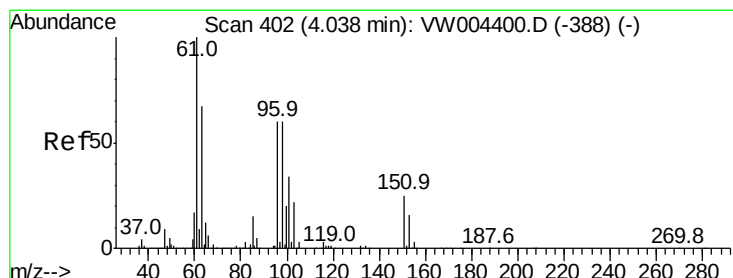
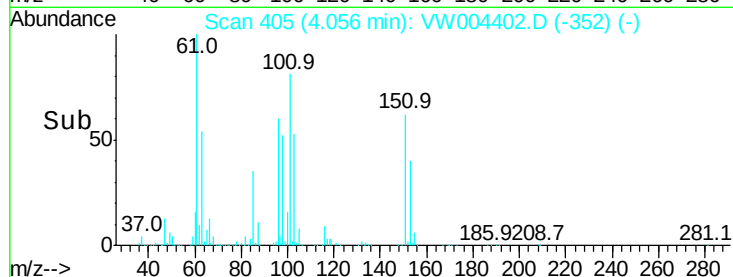
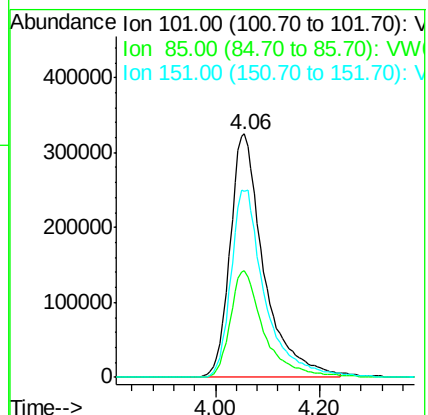
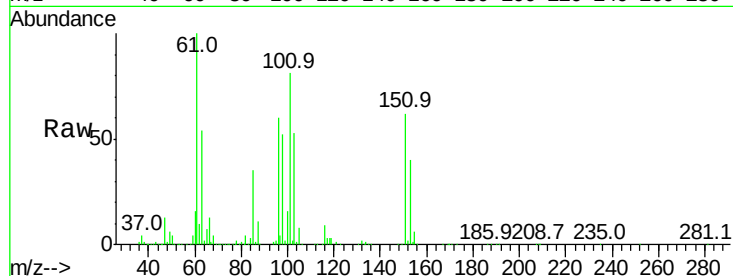
Tgt Ion:101 Resp: 1474660

Ion Ratio Lower Upper

101 100

85 43.5 35.6 53.4

151 77.4 62.6 94.0



#12

1,1-Dichloroethene

Concen: 107.054 ug/L

RT: 4.03 min Scan# 401

Delta R.T. -0.01 min

Lab File: VW004402.D

Acq: 02 Aug 2018 14:34

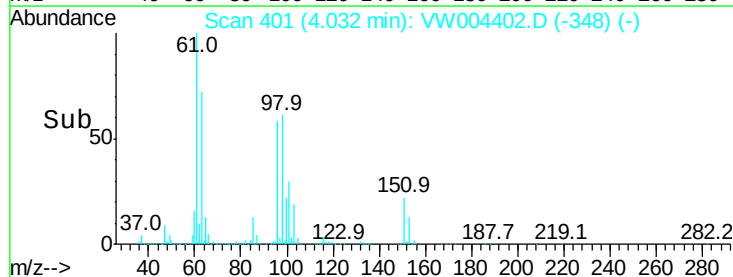
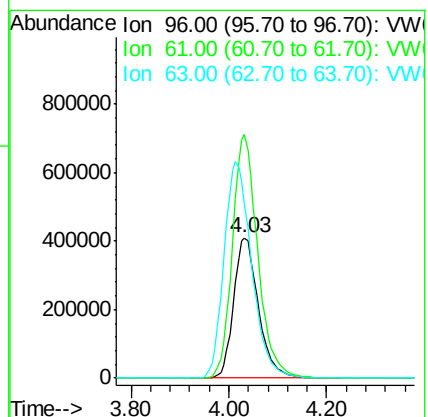
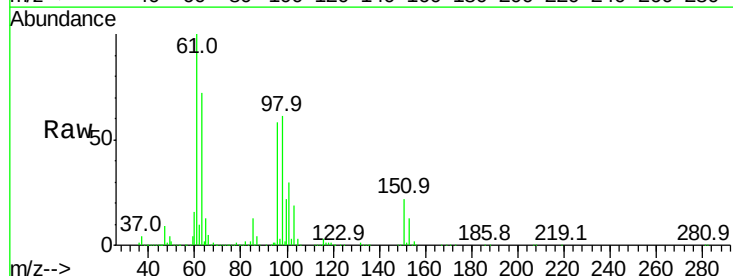
Tgt Ion: 96 Resp: 1441910

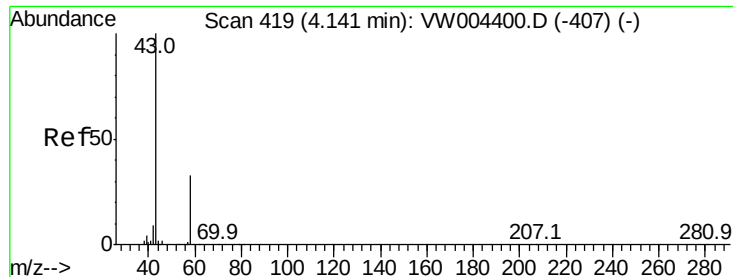
Ion Ratio Lower Upper

96 100

61 173.4 115.9 215.3

63 124.4 78.0 144.9





#13

Acetone

Concen: 193.550 ug/L

RT: 4.14 min Scan# 419

Delta R.T. 0.00 min

Lab File: VW004402.D

Acq: 02 Aug 2018 14:34

Instrument :

MSVOA_W

ClientSampleId :

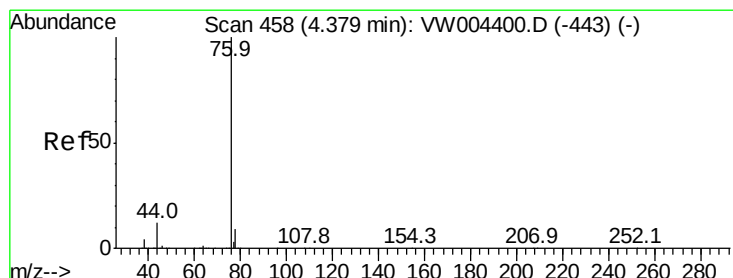
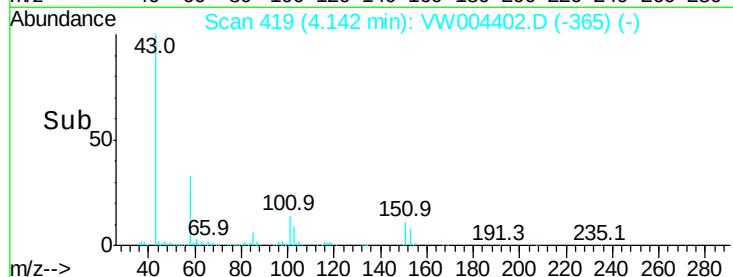
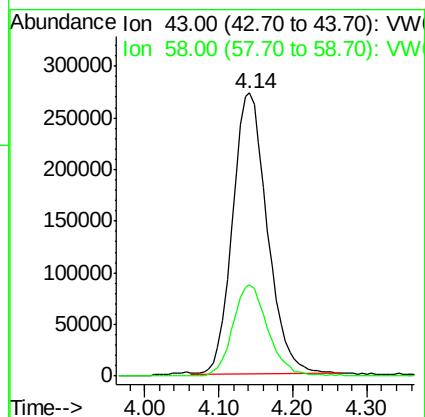
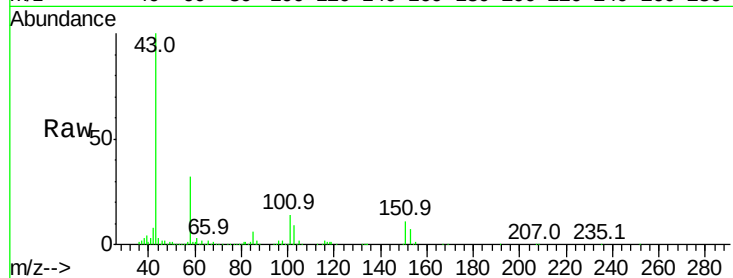
VSTD10093

Tgt Ion: 43 Resp: 887517

Ion Ratio Lower Upper

43 100

58 32.3 0.0 66.4



#14

Carbon disulfide

Concen: 110.220 ug/L

RT: 4.37 min Scan# 457

Delta R.T. -0.01 min

Lab File: VW004402.D

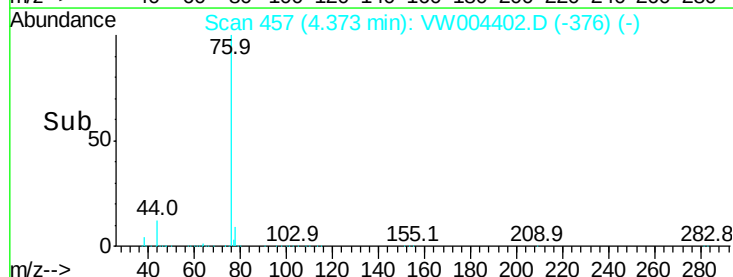
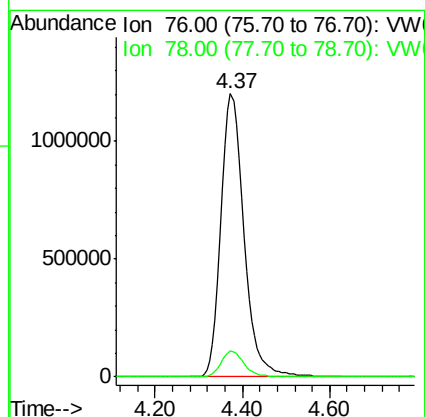
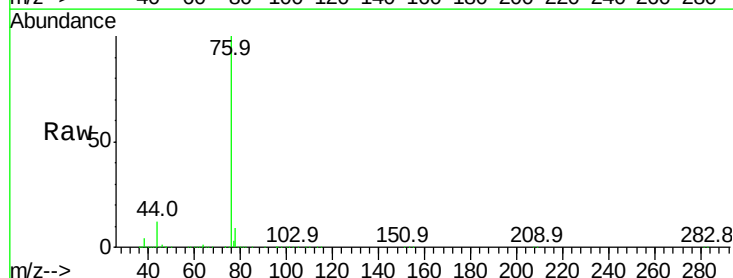
Acq: 02 Aug 2018 14:34

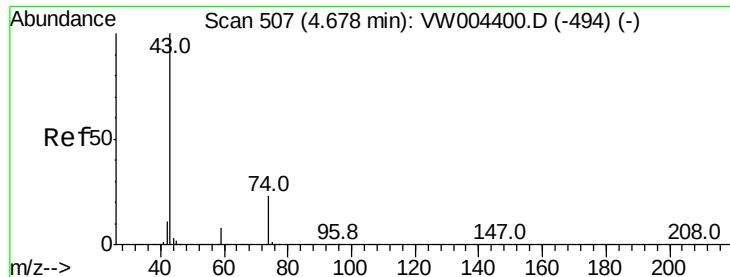
Tgt Ion: 76 Resp: 4391076

Ion Ratio Lower Upper

76 100

78 9.1 7.2 10.8

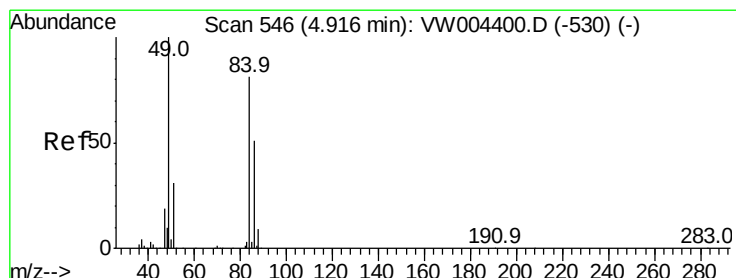
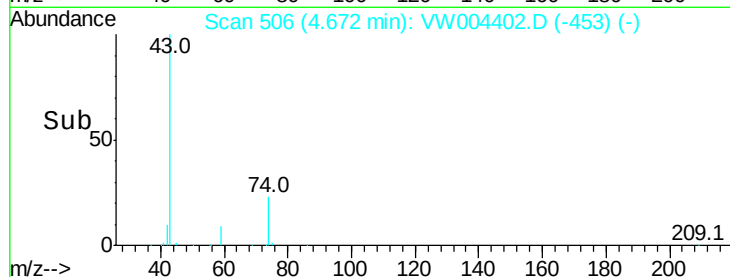
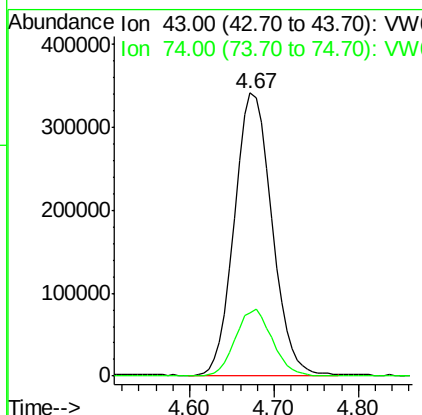
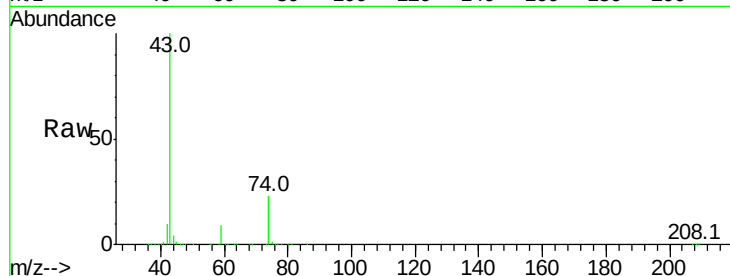




#15
Methyl Acetate
Concen: 112.267 ug/L
RT: 4.67 min Scan# 506
Delta R.T. -0.01 min
Lab File: VW004402.D
Acq: 02 Aug 2018 14:34

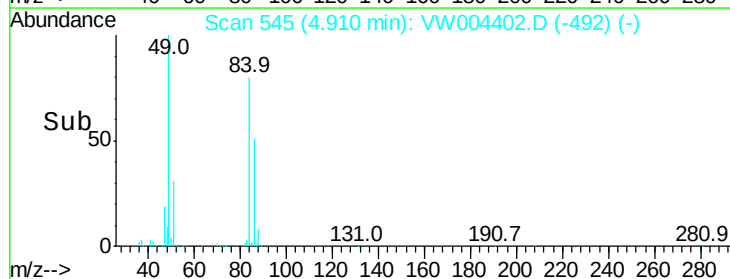
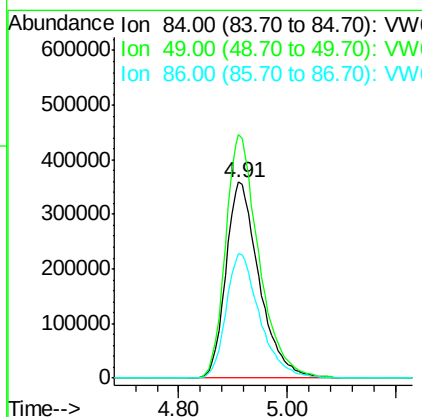
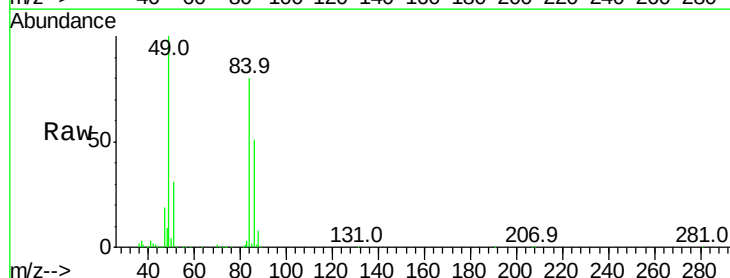
Instrument :
MSVOA_W
ClientSampleId :
VSTD10093

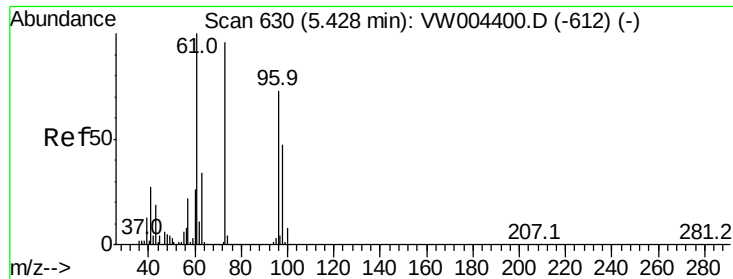
Tgt Ion: 43 Resp: 1026407
Ion Ratio Lower Upper
43 100
74 23.3 18.6 28.0



#16
Methylene chloride
Concen: 89.397 ug/L
RT: 4.91 min Scan# 545
Delta R.T. -0.01 min
Lab File: VW004402.D
Acq: 02 Aug 2018 14:34

Tgt Ion: 84 Resp: 1532901
Ion Ratio Lower Upper
84 100
49 124.3 86.0 159.6
86 63.6 43.5 80.9

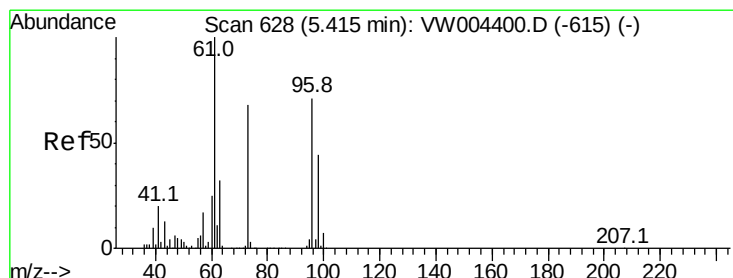
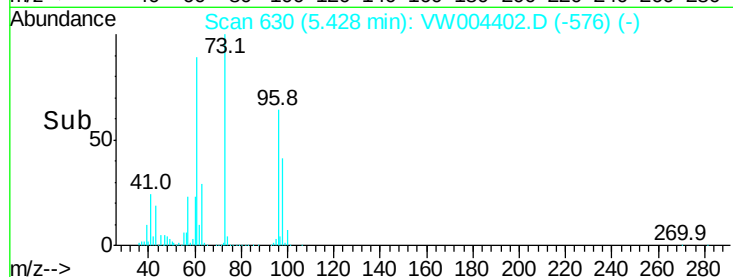
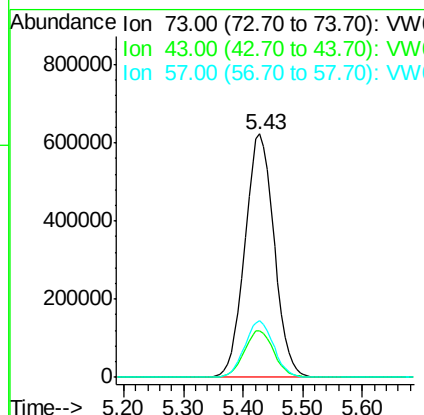
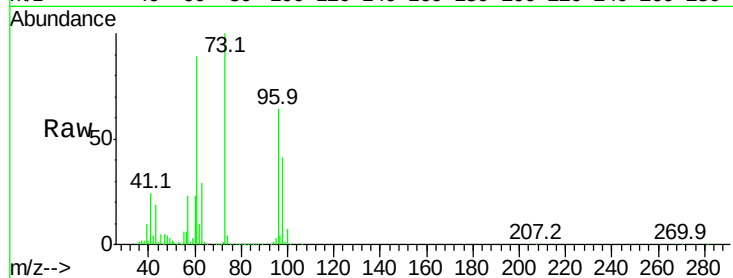




#17
Methyl tert-butyl Ether
Concen: 100.532 ug/L
RT: 5.43 min Scan# 630
Delta R.T. 0.00 min
Lab File: VW004402.D
Acq: 02 Aug 2018 14:34

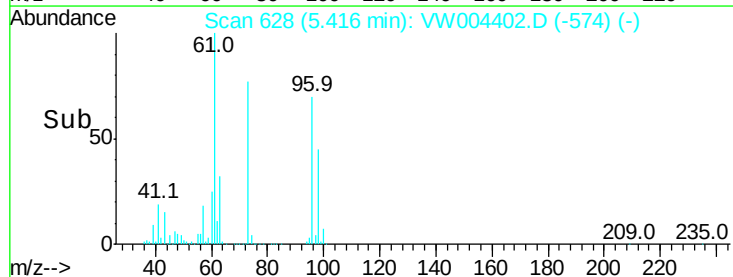
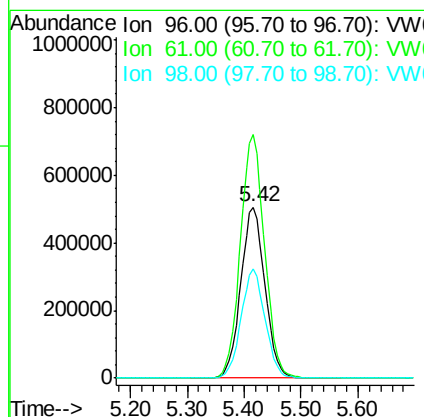
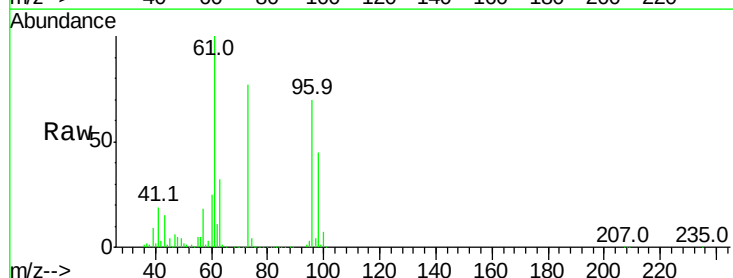
Instrument :
MSVOA_W
ClientSampleId :
VSTD10093

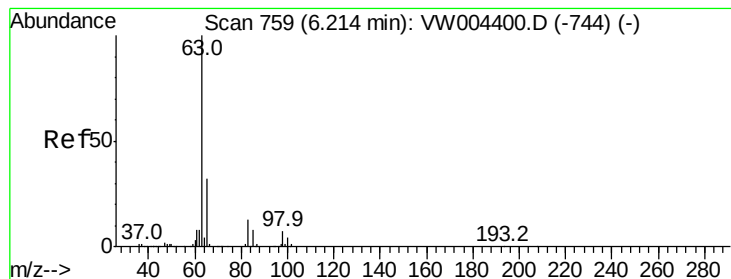
Tgt Ion: 73 Resp: 2126789
Ion Ratio Lower Upper
73 100
43 19.2 16.2 24.2
57 23.0 18.9 28.3



#18
trans-1,2-Dichloroethene
Concen: 102.399 ug/L
RT: 5.42 min Scan# 628
Delta R.T. 0.00 min
Lab File: VW004402.D
Acq: 02 Aug 2018 14:34

Tgt Ion: 96 Resp: 1496981
Ion Ratio Lower Upper
96 100
61 142.2 97.9 181.7
98 63.6 43.0 79.8





#19

1,1-Dichloroethane

Concen: 109.248 ug/L

RT: 6.21 min Scan# 759

Delta R.T. 0.00 min

Lab File: VW004402.D

Acq: 02 Aug 2018 14:34

Instrument :

MSVOA_W

ClientSampleId :

VSTD10093

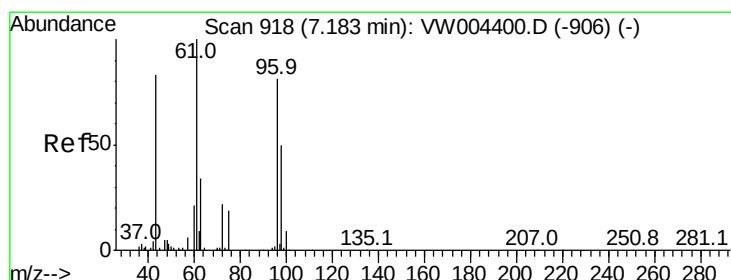
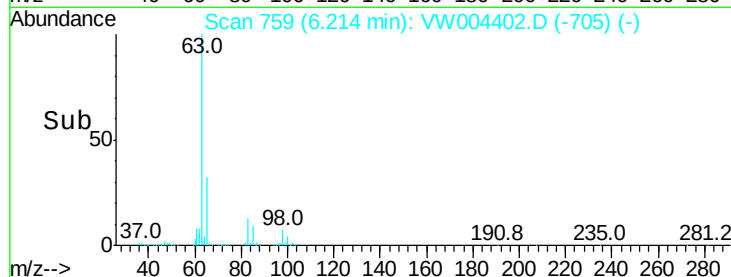
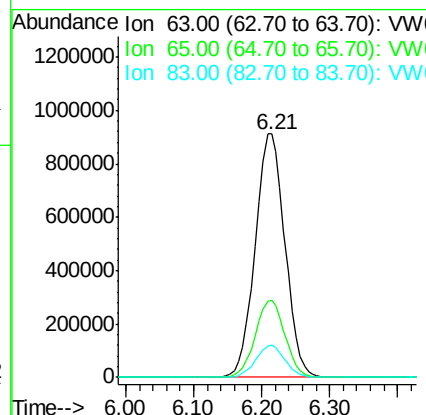
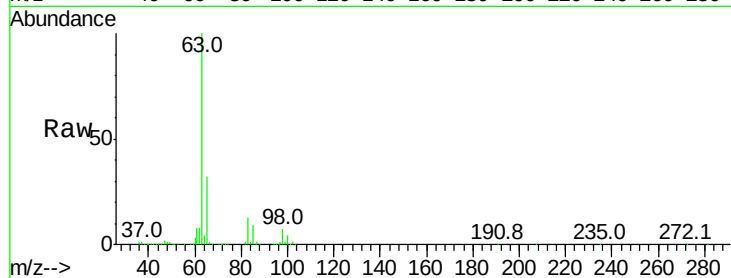
Tgt Ion: 63 Resp: 2776672

Ion Ratio Lower Upper

63 100

65 31.6 22.5 41.7

83 13.2 9.3 17.3



#21

2-Butanone

Concen: 230.529 ug/L

RT: 7.18 min Scan# 918

Delta R.T. 0.00 min

Lab File: VW004402.D

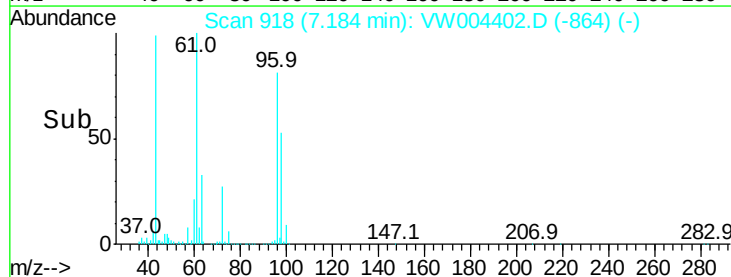
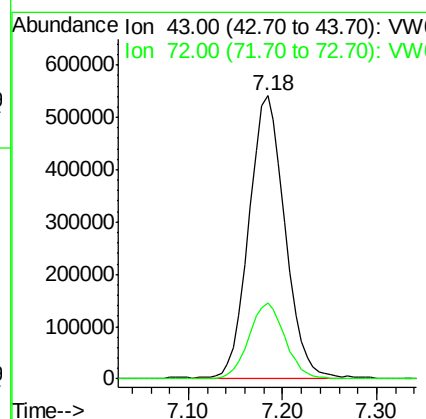
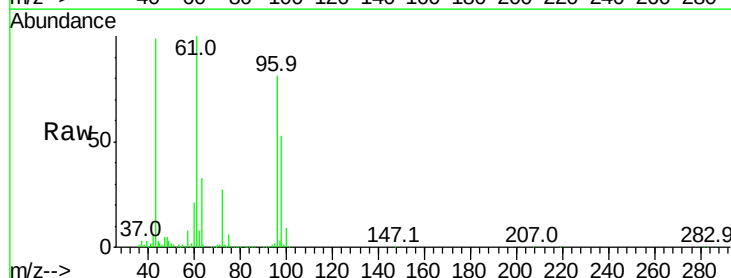
Acq: 02 Aug 2018 14:34

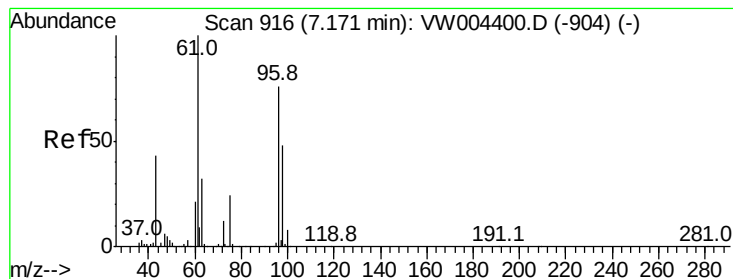
Tgt Ion: 43 Resp: 1440683

Ion Ratio Lower Upper

43 100

72 27.2 13.2 39.6



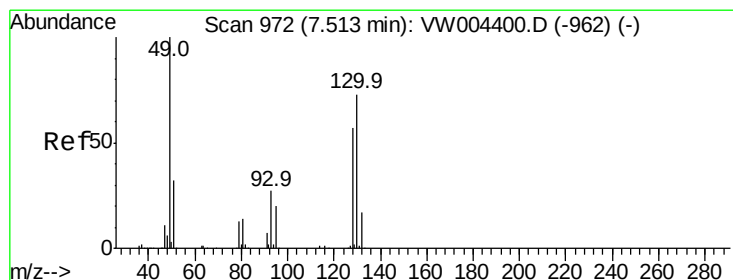
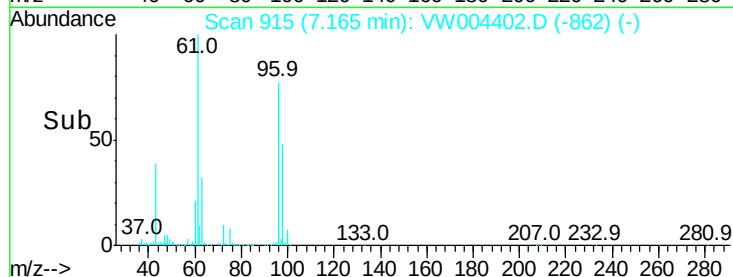
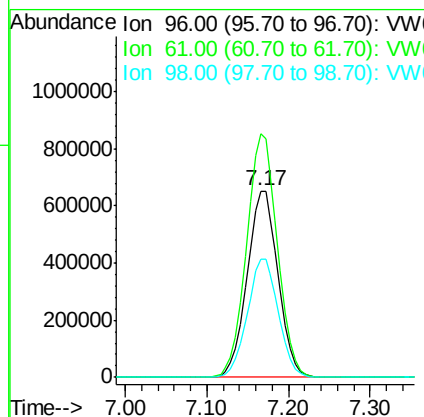
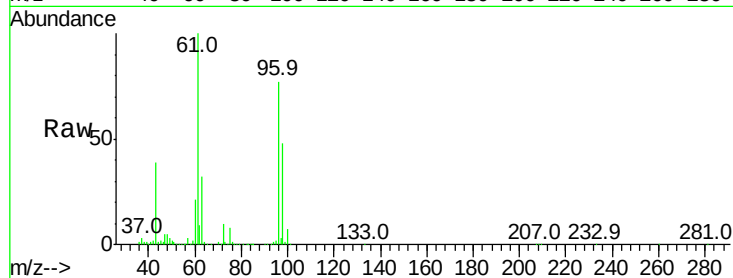


#22

cis-1,2-Dichloroethene
Concen: 106.636 ug/L
RT: 7.17 min Scan# 915
Delta R.T. -0.01 min
Lab File: VW004402.D
Acq: 02 Aug 2018 14:34

Instrument :
MSVOA_W
ClientSampleId :
VSTD10093

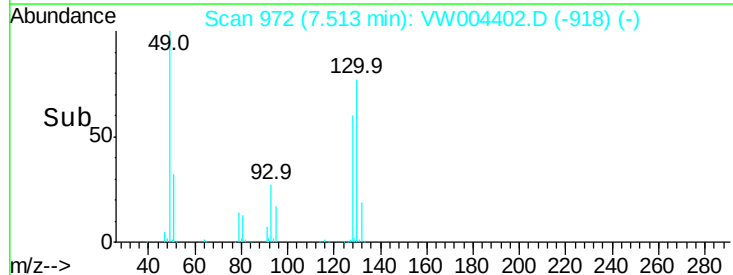
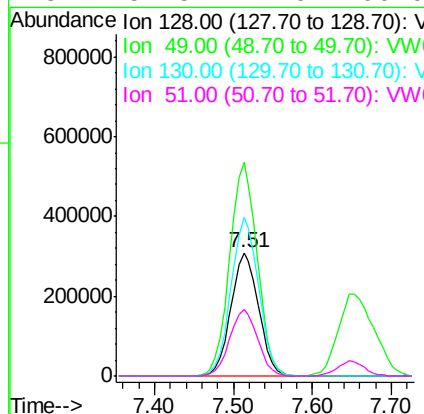
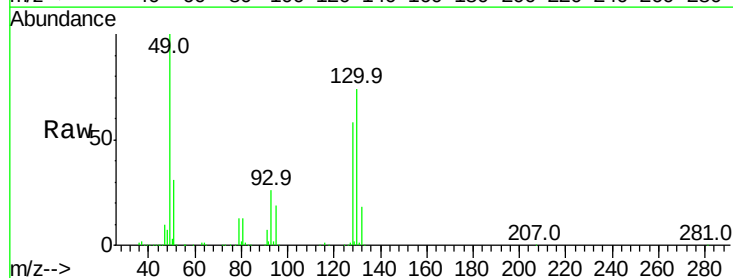
Tgt Ion: 96 Resp: 1718210
Ion Ratio Lower Upper
96 100
61 130.5 92.5 171.7
98 63.1 44.1 81.9

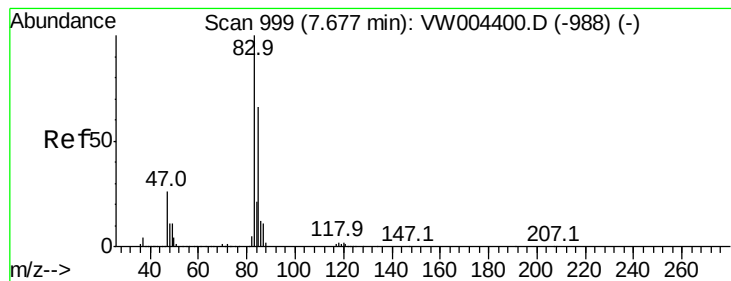


#23

Bromochloromethane
Concen: 99.369 ug/L
RT: 7.51 min Scan# 972
Delta R.T. 0.00 min
Lab File: VW004402.D
Acq: 02 Aug 2018 14:34

Tgt Ion: 128 Resp: 752008
Ion Ratio Lower Upper
128 100
49 173.2 122.0 226.6
130 128.8 88.8 164.8
51 54.5 44.0 66.0





#25

Chloroform

Concen: 104.100 ug/L

RT: 7.68 min Scan# 999

Delta R.T. 0.00 min

Lab File: VW004402.D

Acq: 02 Aug 2018 14:34

Instrument :

MSVOA_W

ClientSampleId :

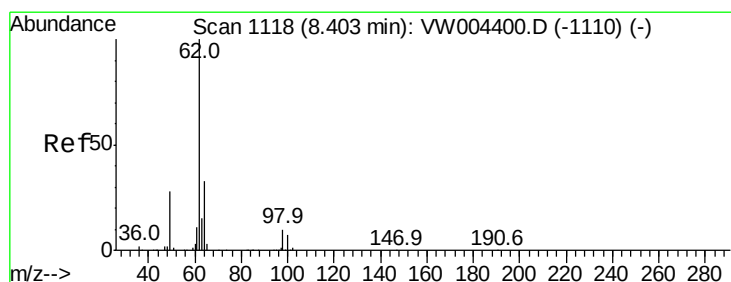
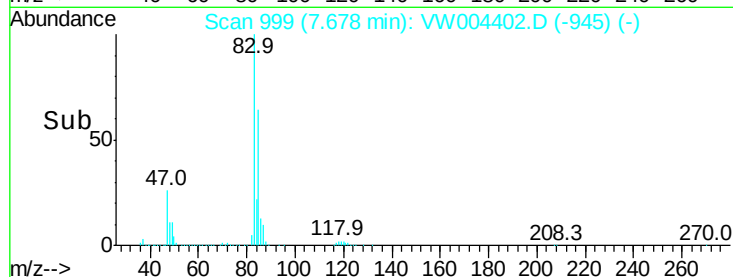
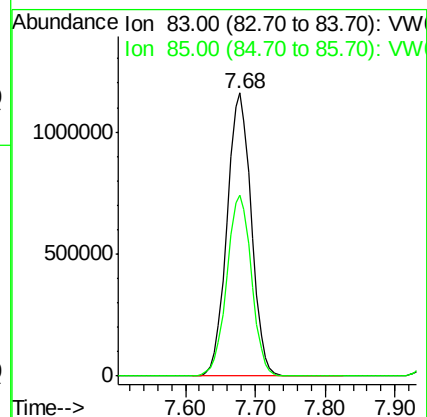
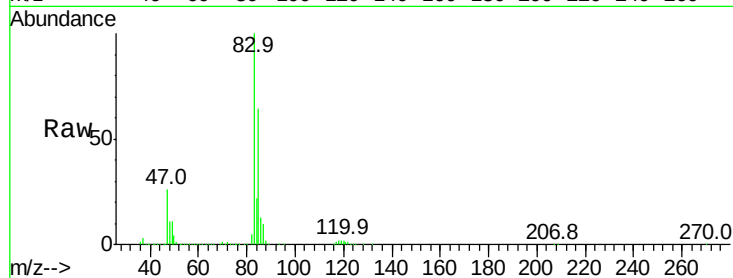
VSTD10093

Tgt Ion: 83 Resp: 2783694

Ion Ratio Lower Upper

83 100

85 65.1 45.7 84.9



#27

1,2-Dichloroethane

Concen: 103.591 ug/L

RT: 8.40 min Scan# 1118

Delta R.T. 0.00 min

Lab File: VW004402.D

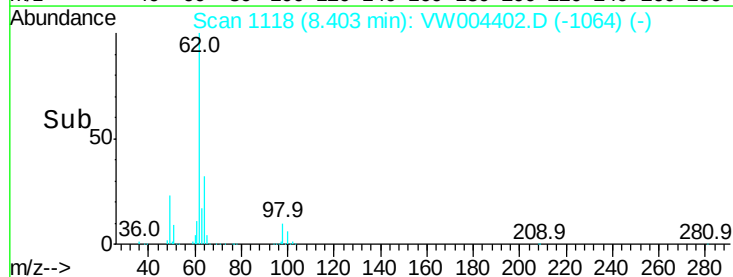
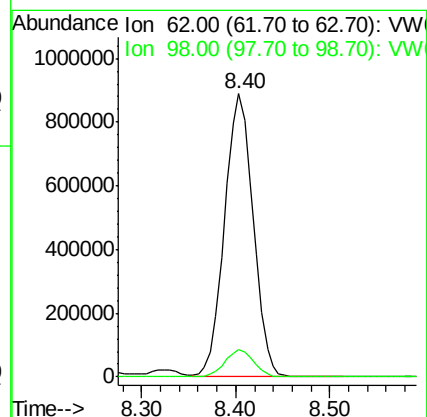
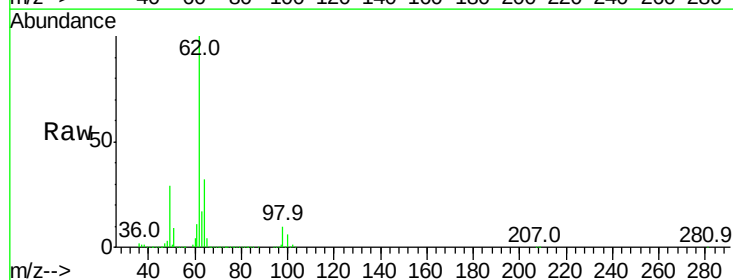
Acq: 02 Aug 2018 14:34

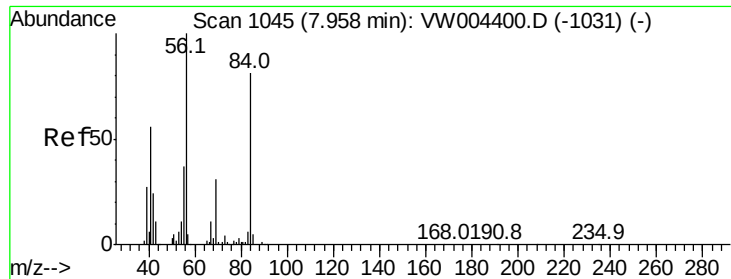
Tgt Ion: 62 Resp: 1871043

Ion Ratio Lower Upper

62 100

98 9.8 7.6 11.4





#30

Cyclohexane

Concen: 113.328 ug/L

RT: 7.96 min Scan# 1045

Delta R.T. 0.00 min

Lab File: VW004402.D

Acq: 02 Aug 2018 14:34

Instrument :

MSVOA_W

ClientSampled :

VSTD10093

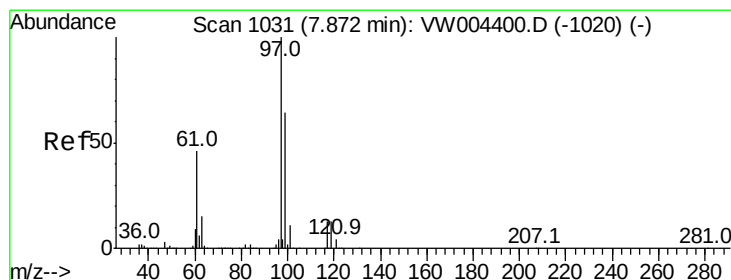
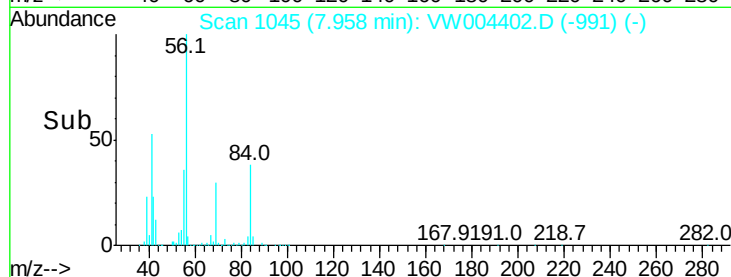
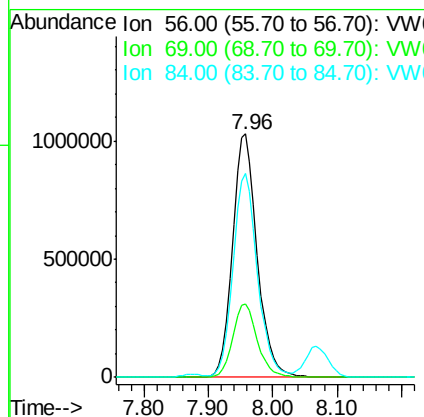
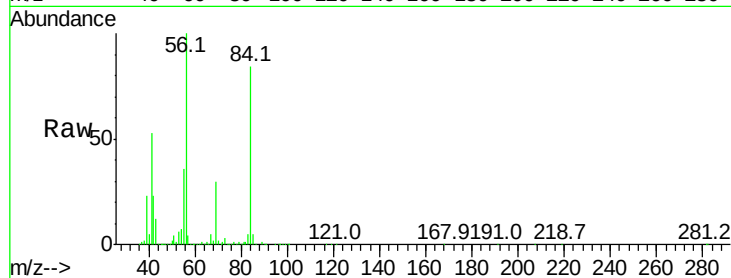
Tgt Ion: 56 Resp: 2748225

Ion Ratio Lower Upper

56 100

69 30.2 24.0 36.0

84 83.4 66.7 100.1



#31

1,1,1-Trichloroethane

Concen: 93.430 ug/L

RT: 7.87 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VW004402.D

Acq: 02 Aug 2018 14:34

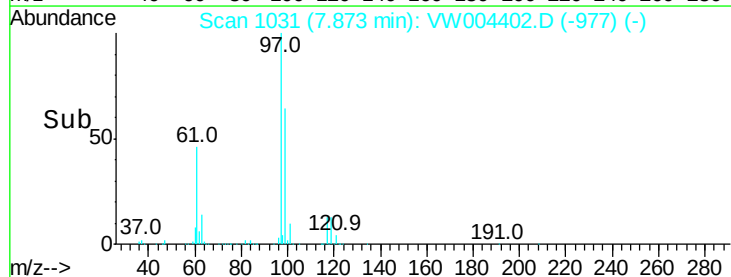
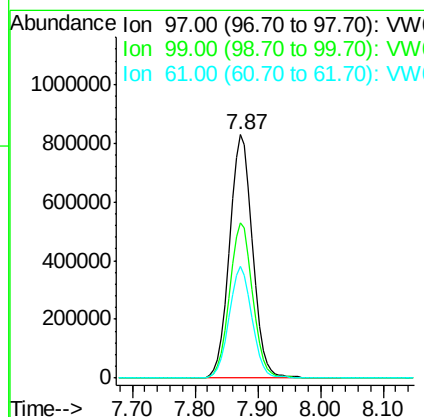
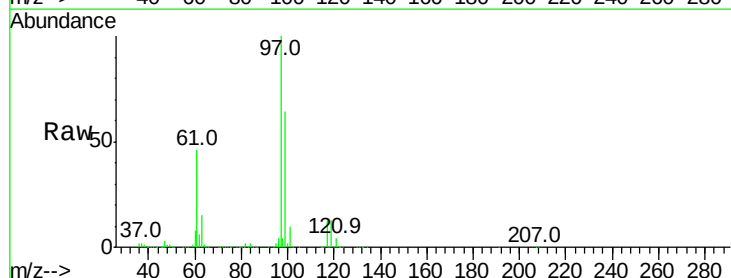
Tgt Ion: 97 Resp: 2102288

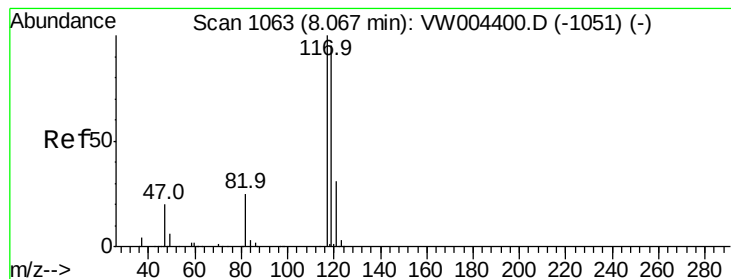
Ion Ratio Lower Upper

97 100

99 64.1 51.8 77.6

61 45.8 37.3 55.9





#32

Carbon tetrachloride

Concen: 94.236 ug/L

RT: 8.07 min Scan# 1063

Delta R.T. 0.00 min

Lab File: VW004402.D

Acq: 02 Aug 2018 14:34

Instrument :

MSVOA_W

ClientSampleId :

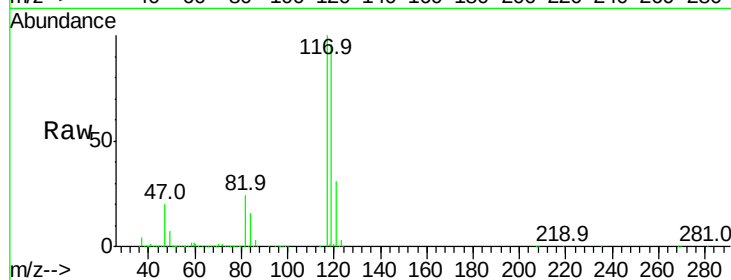
VSTD10093

Tgt Ion:117 Resp: 2065162

Ion Ratio Lower Upper

117 100

119 96.1 76.5 114.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

800000

600000

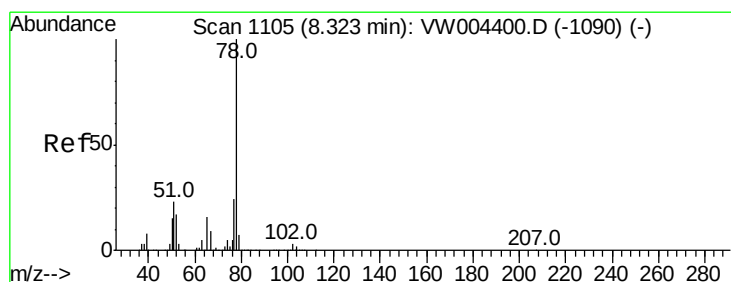
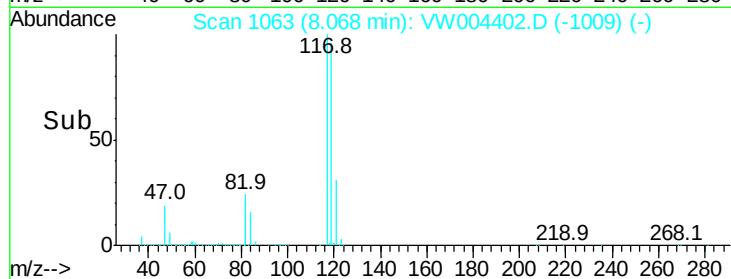
400000

200000

0

Time-->

7.90 8.00 8.10 8.20



#34

Benzene

Concen: 105.811 ug/L

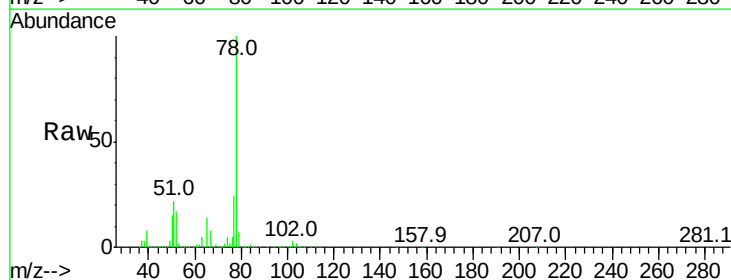
RT: 8.32 min Scan# 1105

Delta R.T. 0.00 min

Lab File: VW004402.D

Acq: 02 Aug 2018 14:34

Tgt Ion: 78 Resp: 6298663



Abundance Ion 78.00 (77.70 to 78.70): VW

3000000

2500000

2000000

1500000

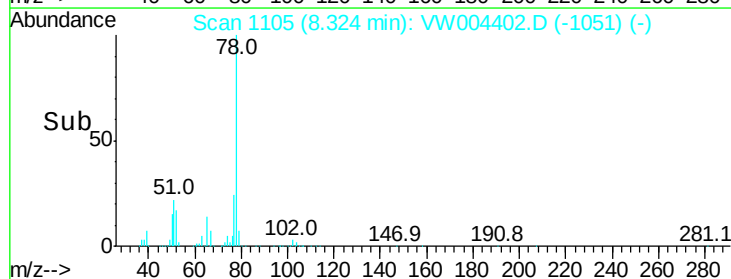
1000000

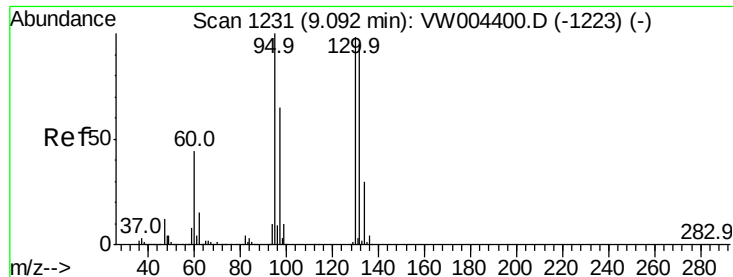
500000

0

Time-->

8.20 8.30 8.40



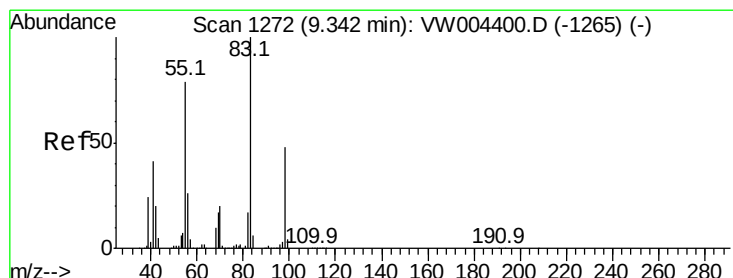
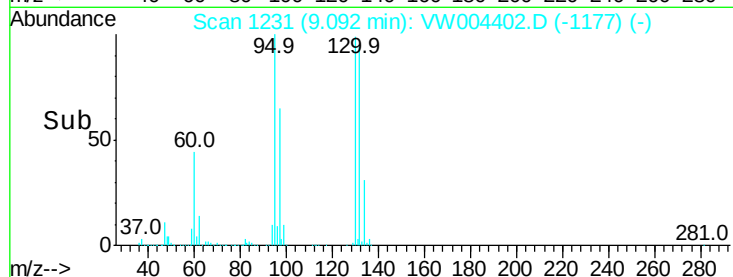
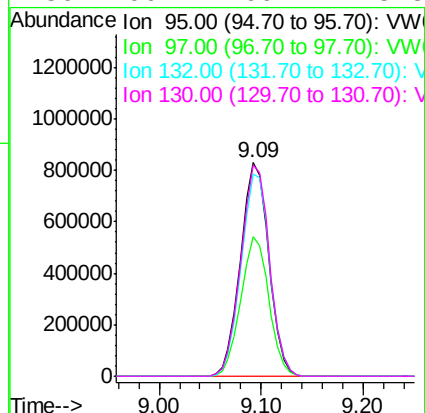
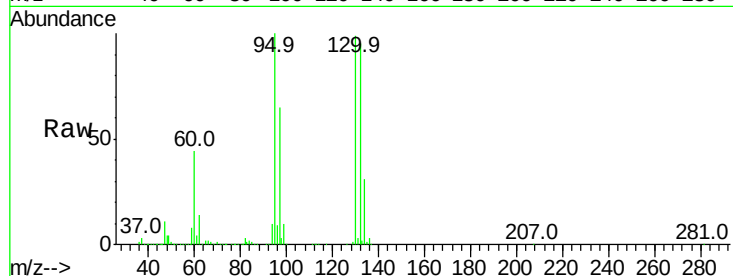


#35
 Trichloroethene
 Concen: 100.079 ug/L
 RT: 9.09 min Scan# 1231
 Delta R.T. 0.00 min
 Lab File: VW004402.D
 Acq: 02 Aug 2018 14:34

Instrument :
 MSVOA_W
 ClientSampled :
 VSTD10093

Tgt Ion: 95 Resp: 1594707

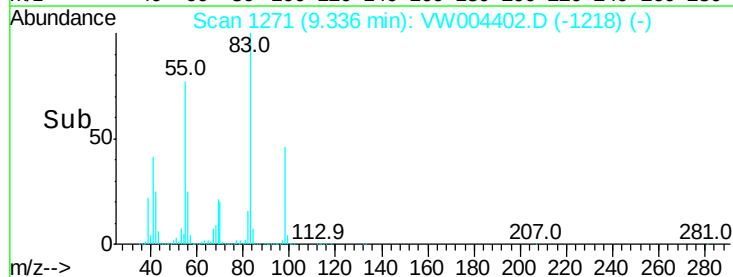
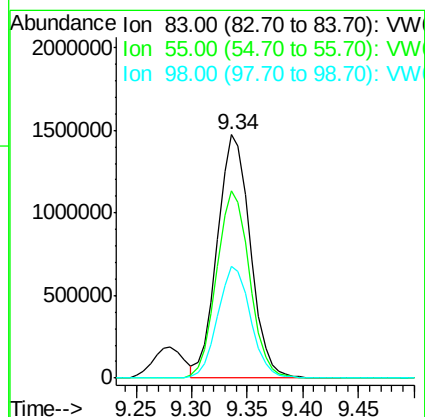
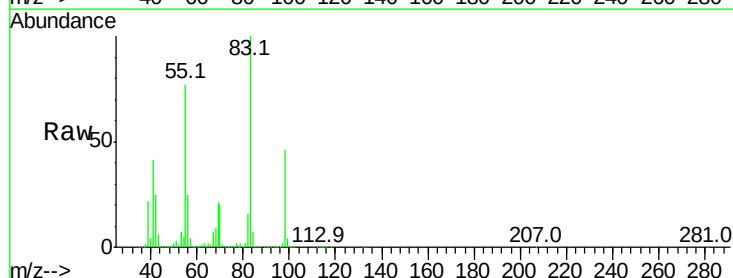
Ion	Ratio	Lower	Upper
95	100		
97	64.9	44.9	83.5
132	96.2	67.6	125.6
130	100.2	69.1	128.3

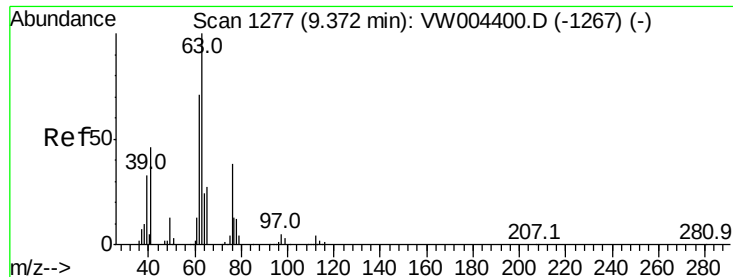


#36
 Methylcyclohexane
 Concen: 106.605 ug/L
 RT: 9.34 min Scan# 1271
 Delta R.T. -0.01 min
 Lab File: VW004402.D
 Acq: 02 Aug 2018 14:34

Tgt Ion: 83 Resp: 3030023

Ion	Ratio	Lower	Upper
83	100		
55	77.1	62.8	94.2
98	45.7	36.6	54.8





#40

1,2-Dichloropropane

Concen: 110.406 ug/L

RT: 9.37 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VW004402.D

Acq: 02 Aug 2018 14:34

Instrument :

MSVOA_W

ClientSampleId :

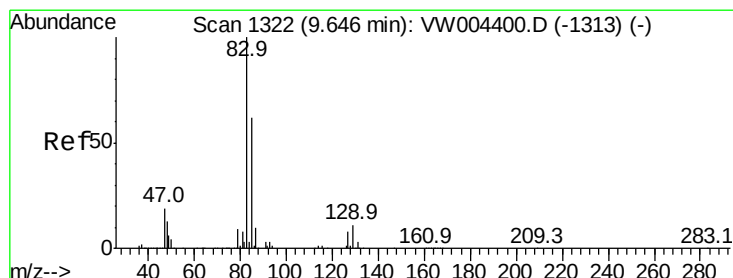
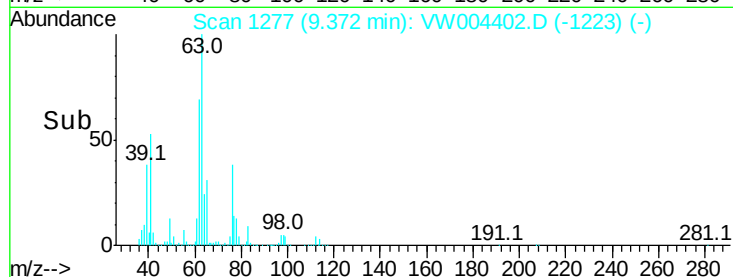
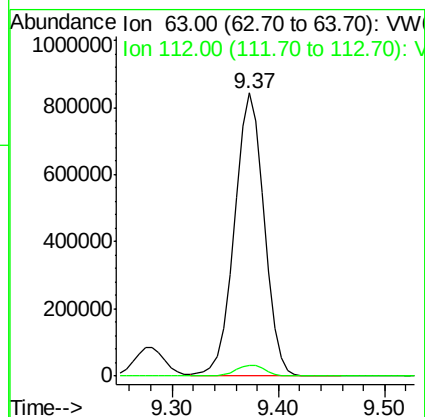
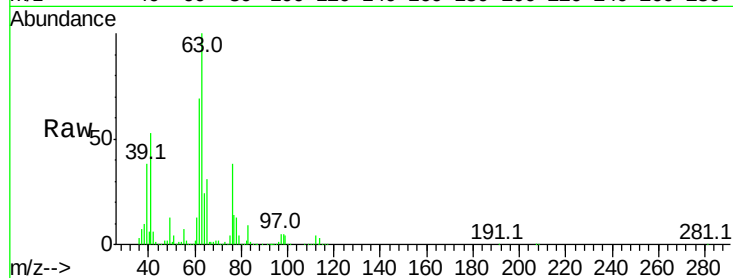
VSTD10093

Tgt Ion: 63 Resp: 1648586

Ion Ratio Lower Upper

63 100

112 3.9 3.0 4.6



#41

Bromodichloromethane

Concen: 103.311 ug/L

RT: 9.65 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VW004402.D

Acq: 02 Aug 2018 14:34

Tgt Ion: 83 Resp: 1995905

Ion Ratio Lower Upper

83 100

85 65.8 43.7 81.1

127 8.5 6.6 10.0

