

Data File : VW008753.D
Acq On : 20 Feb 2019 11:40
Operator : SY/VA
Sample : VSTD00582
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD00502

Quant Time: Feb 20 12:34:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM022019S.M
Quant Title : VOC Analysis
QLast Update : Wed Feb 20 12:31:26 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	391786	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	383310	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	212081	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	33936	8.79	ug/L	0.00
7) Chloroethane-d5	2.88	69	30830	11.85	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.01	63	57251	5.48	ug/L	0.00
20) 2-Butanone-d5	7.09	46	21035	12.77	ug/L	0.00
24) Chloroform-d	7.65	84	51896	4.98	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.30	65	31073	4.97	ug/L	0.00
29) Benzene-d6	8.27	84	103440	4.81	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	30538	5.22	ug/L	0.00
37) Toluene-d8	10.32	98	98940	4.72	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	14714	4.38	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	15536	10.39	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	29985	5.33	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	40314	4.71	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.00	85	38392	8.891	ug/L	97
3) Chloromethane	2.21	50	37438	11.002	ug/L	95
5) Vinyl chloride	2.35	62	38911	9.192	ug/L	92
6) Bromomethane	2.76	94	24603	9.797	ug/L	99
8) Chloroethane	2.92	64	26097	12.408	ug/L #	82
9) Trichlorofluoromethane	3.26	101	48748	13.336	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	30398	6.146	ug/L	98
12) 1,1-Dichloroethene	4.03	96	24469	5.403	ug/L #	86
13) Acetone	4.13	43	18488	11.492	ug/L	98
14) Carbon disulfide	4.37	76	79234	5.524	ug/L	97
16) Methylene chloride	4.92	84	35250	5.560	ug/L	95
17) Methyl tert-butyl Ether	5.43	73	70294	8.732	ug/L #	86
18) trans-1,2-Dichloroethene	5.43	96	27678	5.634	ug/L	90
19) 1,1-Dichloroethane	6.21	63	45502	5.567	ug/L	90
21) 2-Butanone	7.18	43	25120	13.722	ug/L	92
22) cis-1,2-Dichloroethene	7.17	96	29193	5.546	ug/L	99
23) Bromochloromethane	7.51	128	13189	5.565	ug/L	92
25) Chloroform	7.67	83	47785	5.191	ug/L	96
27) 1,2-Dichloroethane	8.40	62	35577	5.270	ug/L	96
30) Cyclohexane	7.96	56	45125	5.351	ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	45922	4.997	ug/L	99
32) Carbon tetrachloride	8.07	117	41833	4.741	ug/L	99
34) Benzene	8.32	78	105853	5.161	ug/L	100
35) Trichloroethene	9.09	95	29056	4.876	ug/L	97
36) Methylcyclohexane	9.34	83	50547	4.946	ug/L	96
40) 1,2-Dichloropropane	9.37	63	26660	5.529	ug/L	98
41) Bromodichloromethane	9.64	83	35616	5.023	ug/L	95
42) cis-1,3-Dichloropropene	10.07	75	41613	4.944	ug/L	97
43) 4-Methyl-2-pentanone	10.21	43	49515	12.975	ug/L	98
44) Toluene	10.39	91	119981	5.228	ug/L	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) trans-1,3-Dichloropropene	10.60	75	36633	4.724	ug/L	95
46) 1,1,2-Trichloroethane	10.79	97	23924	5.865	ug/L	93
47) Tetrachloroethene	10.86	164	26364	5.568	ug/L	96
49) 2-Hexanone	10.97	43	36023	13.084	ug/L	98
50) Dibromochloromethane	11.13	129	26998	5.195	ug/L	88
51) 1,2-Dibromoethane	11.24	107	23072	5.542	ug/L	87
52) Chlorobenzene	11.66	112	82808	5.543	ug/L	97
53) Ethylbenzene	11.73	91	135837	5.152	ug/L	98
54) m,p-Xylene	11.84	106	54250	5.461	ug/L	98
55) o-xylene	12.17	106	51451	5.461	ug/L	89
56) Styrene	12.18	104	83041	5.200	ug/L	97
57) Isopropylbenzene	12.46	105	136021	5.097	ug/L	97
58) 1,1,2,2-Tetrachloroethane	12.71	83	30838	6.097	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	23251	5.715	ug/L	98
62) Bromoform	12.35	173	16124	4.823	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	68815	5.075	ug/L	93
64) 1,4-Dichlorobenzene	13.58	146	69134	5.127	ug/L	95
65) 1,2-Dichlorobenzene	13.87	146	64461	5.237	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	5845	4.817	ug/L	89
67) 1,3,5-Trichlorobenzene	14.63	180	53333	5.371	ug/L	98
68) 1,2,4-trichlorobenzene	15.14	180	45691	5.360	ug/L	98
69) Naphthalene	15.37	128	94163	4.880	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	43580	5.775	ug/L	96

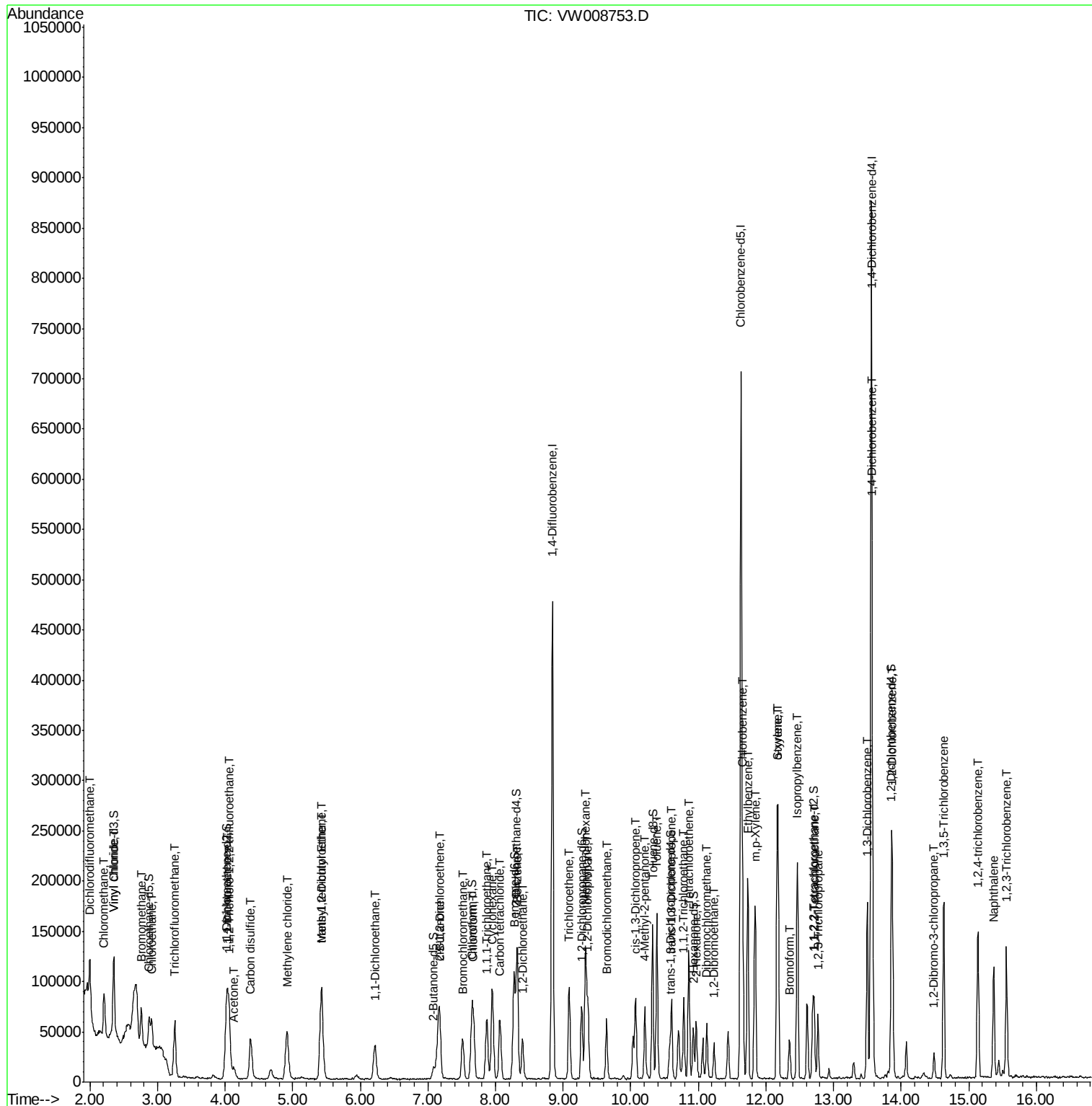
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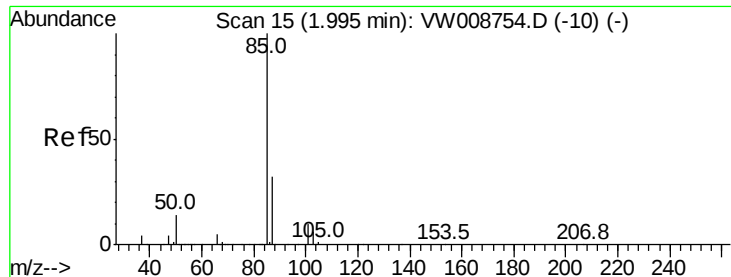
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#2

Dichlorodifluoromethane

Concen: 8.891 ug/L

RT: 2.00 min Scan# 16

Delta R.T. 0.01 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampleId :

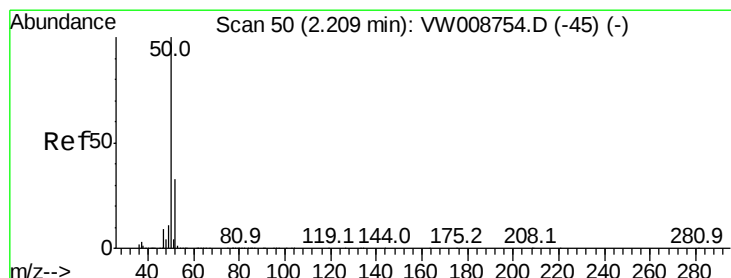
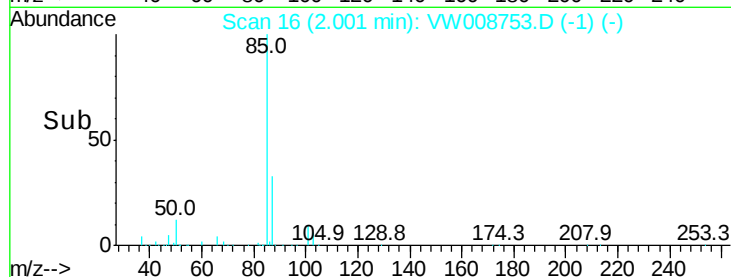
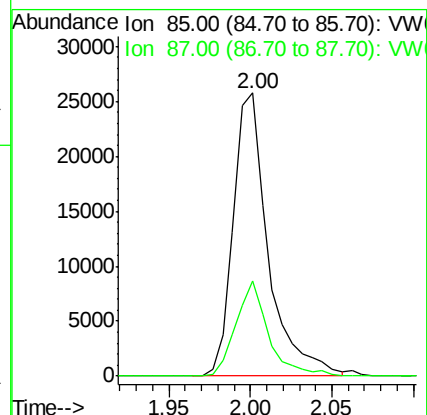
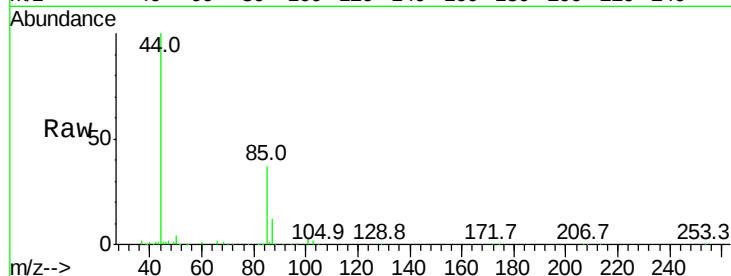
VSTD00502

Tgt Ion: 85 Resp: 38392

Ion Ratio Lower Upper

85 100

87 31.5 23.2 43.0



#3

Chloromethane

Concen: 11.002 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW008753.D

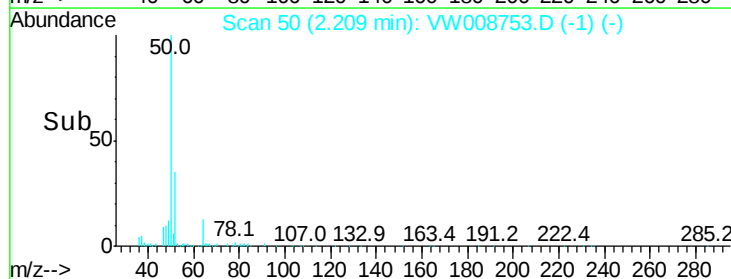
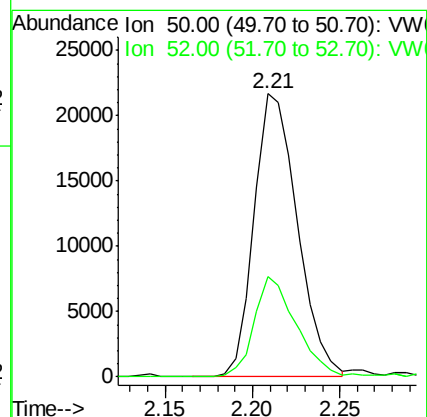
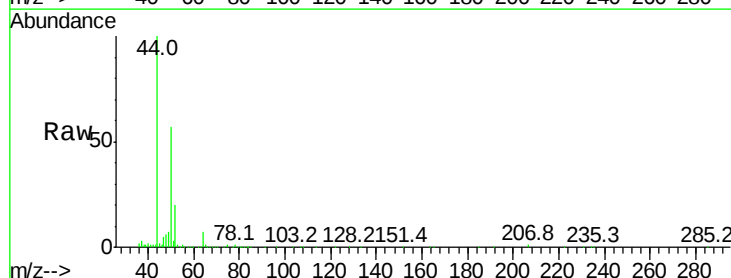
Acq: 20 Feb 2019 11:40

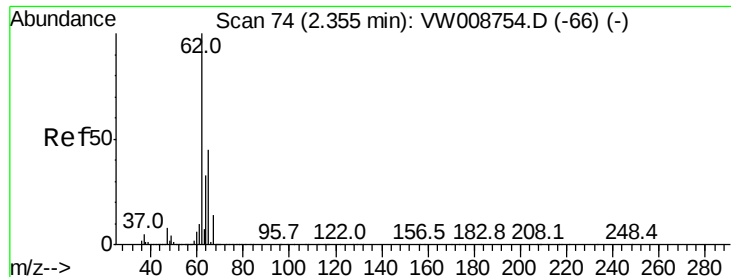
Tgt Ion: 50 Resp: 37438

Ion Ratio Lower Upper

50 100

52 35.3 22.8 42.4





#5

Vinyl chloride

Concen: 9.192 ug/L

RT: 2.35 min Scan# 74

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampleId :

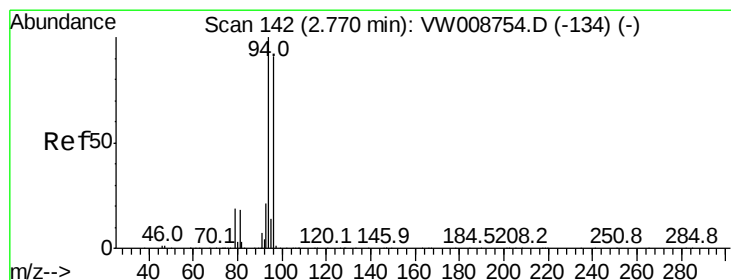
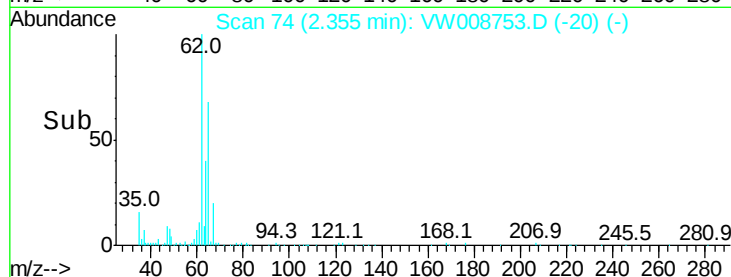
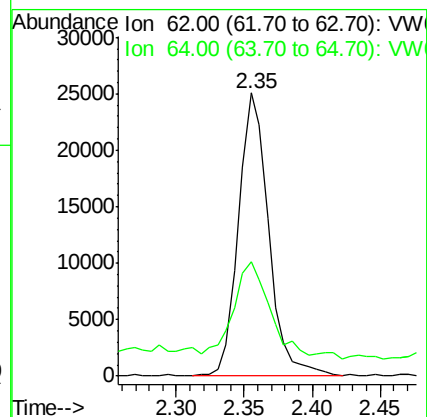
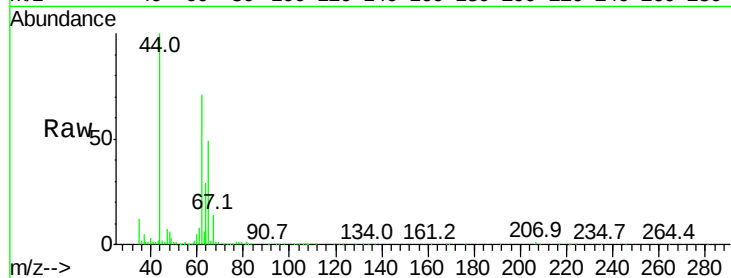
VSTD00502

Tgt Ion: 62 Resp: 38911

Ion Ratio Lower Upper

62 100

64 40.3 24.8 46.1



#6

Bromomethane

Concen: 9.797 ug/L

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW008753.D

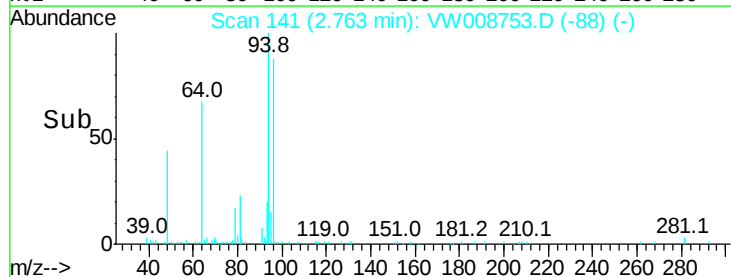
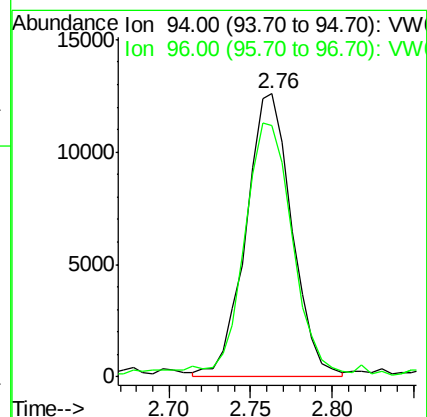
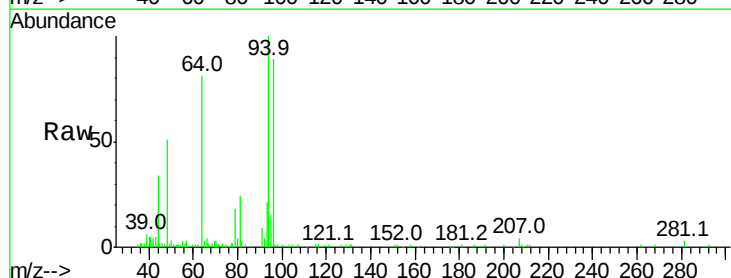
Acq: 20 Feb 2019 11:40

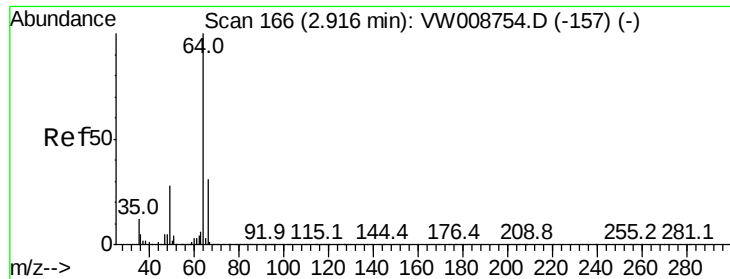
Tgt Ion: 94 Resp: 24603

Ion Ratio Lower Upper

94 100

96 91.4 9.2 175.6

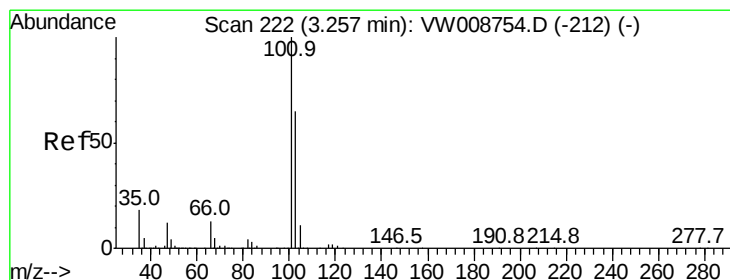
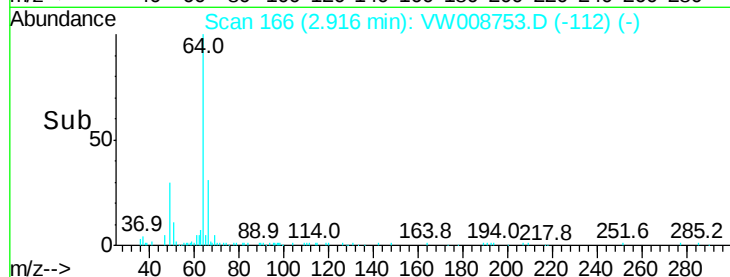
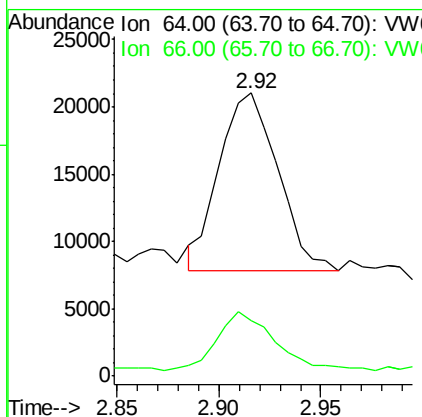
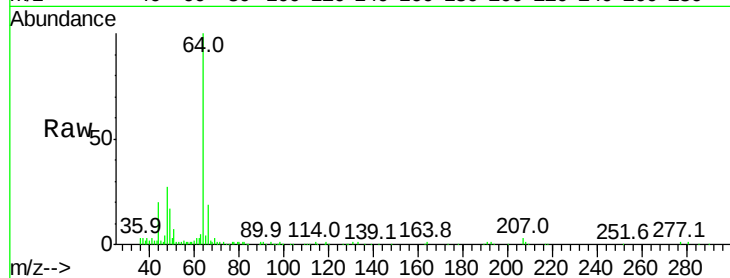




#8
Chloroethane
Concen: 12.408 ug/L
RT: 2.92 min Scan# 166
Delta R.T. -0.00 min
Lab File: VW008753.D
Acq: 20 Feb 2019 11:40

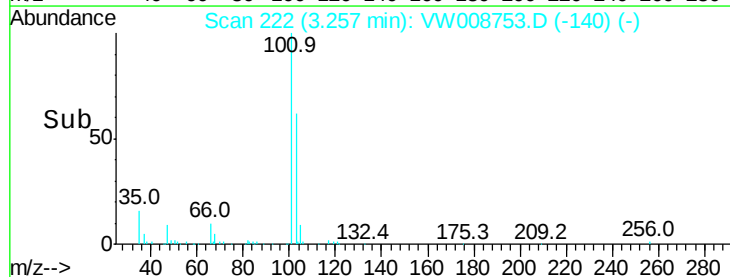
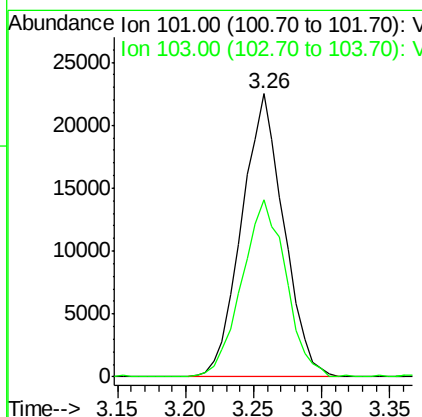
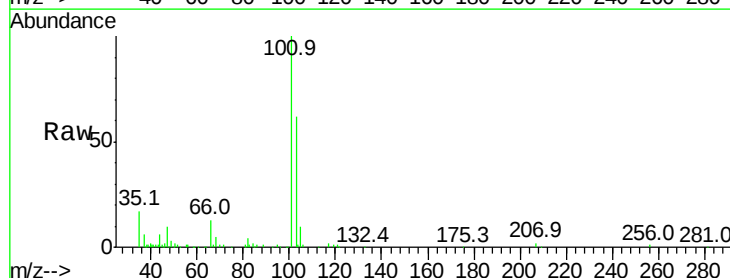
Instrument :
MSVOA_W
ClientSampleId :
VSTD00502

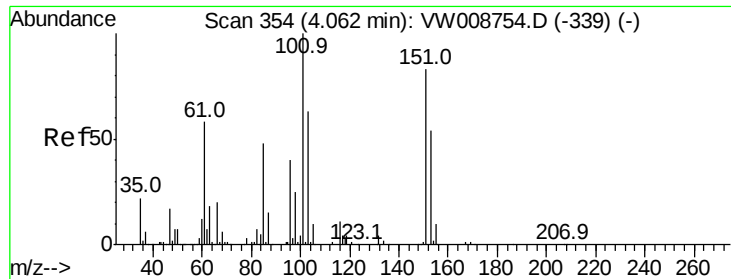
Tgt Ion: 64 Resp: 26097
Ion Ratio Lower Upper
64 100
66 19.4 20.3 37.7#



#9
Trichlorofluoromethane
Concen: 13.336 ug/L
RT: 3.26 min Scan# 222
Delta R.T. -0.00 min
Lab File: VW008753.D
Acq: 20 Feb 2019 11:40

Tgt Ion: 101 Resp: 48748
Ion Ratio Lower Upper
101 100
103 65.6 45.3 84.1





#11

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

Concen: 6.146 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

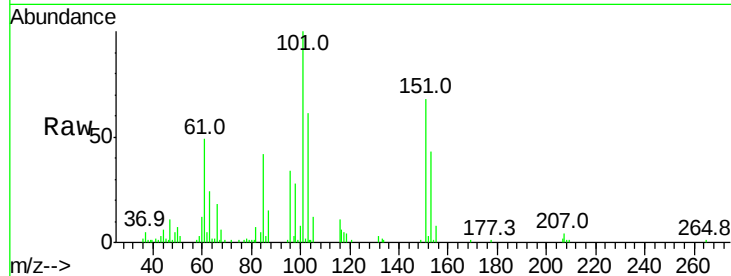
Tgt Ion: 101 Resp: 30398

Ion Ratio Lower Upper

101 100

85 41.1 36.0 54.0

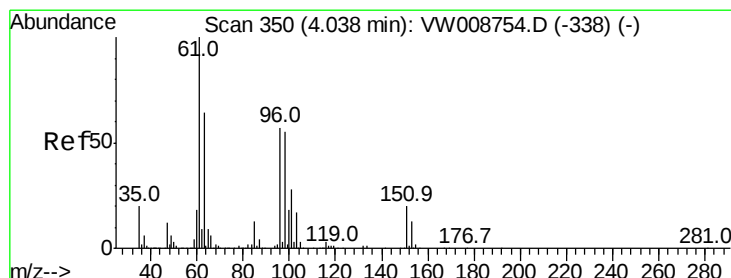
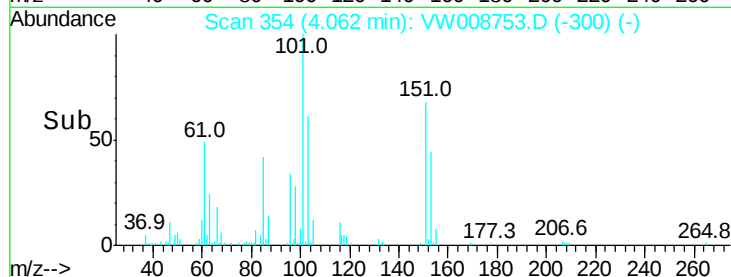
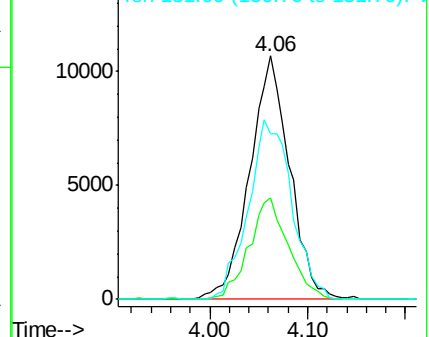
151 80.2 63.9 95.9



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: 5.403 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

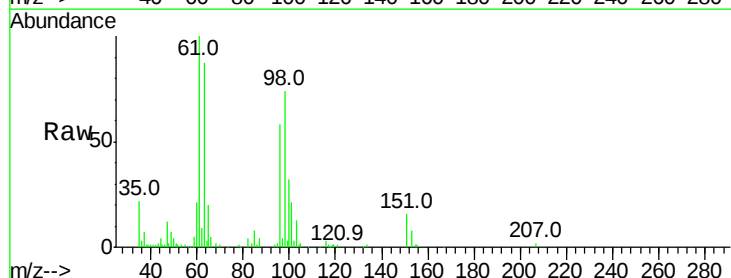
Tgt Ion: 96 Resp: 24469

Ion Ratio Lower Upper

96 100

61 171.4 122.5 227.5

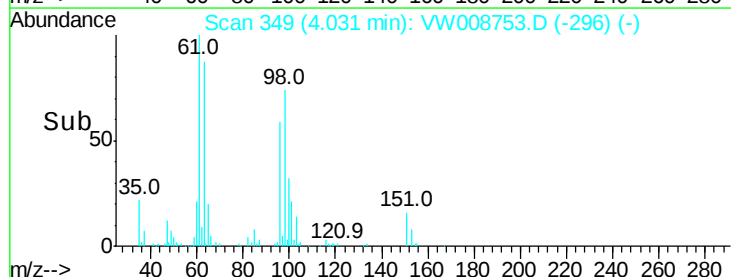
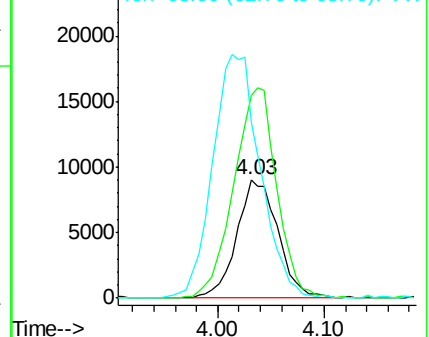
63 148.6 79.4 147.4#

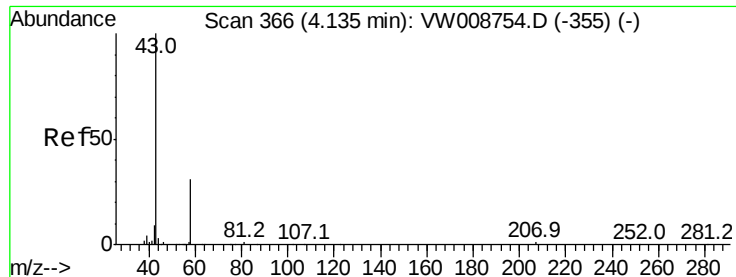


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 11.492 ug/L

RT: 4.13 min Scan# 366

Delta R.T. -0.00 min

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ClientSampleId :

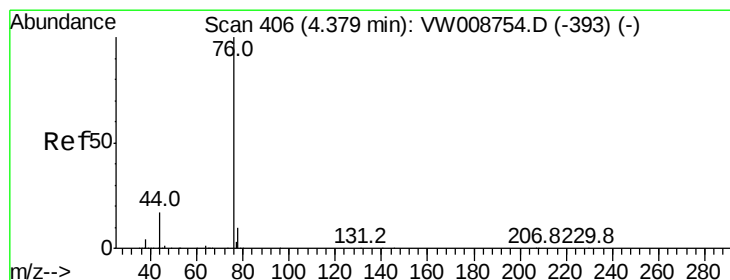
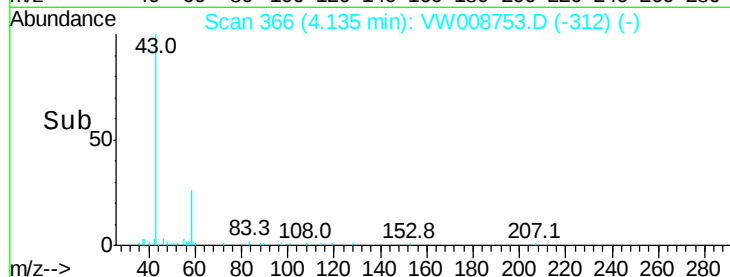
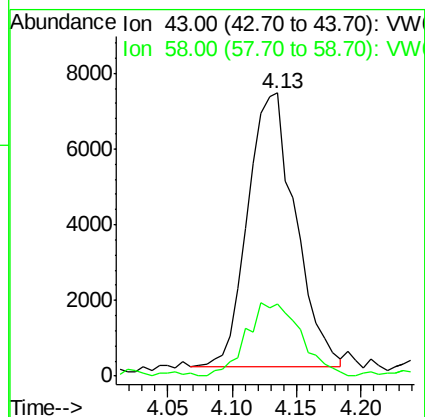
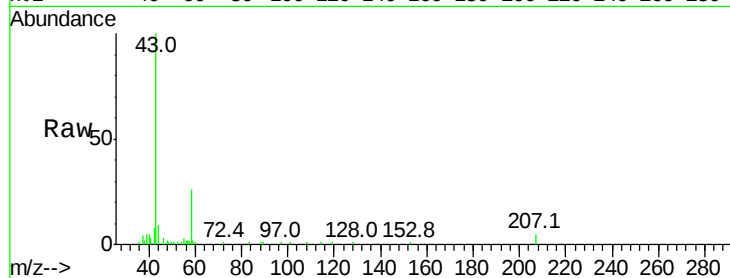
VSTD00502

Tgt Ion: 43 Resp: 18488

Ion Ratio Lower Upper

43 100

58 30.5 0.0 59.4



#14

Carbon disulfide

Concen: 5.524 ug/L

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW008753.D

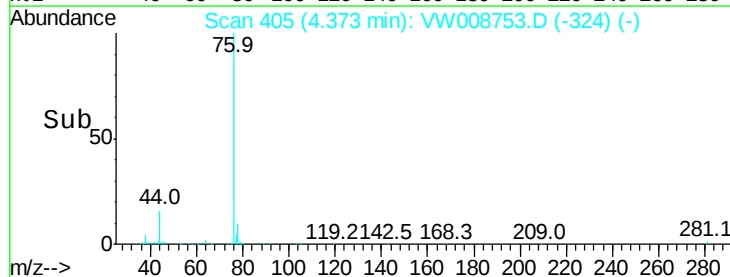
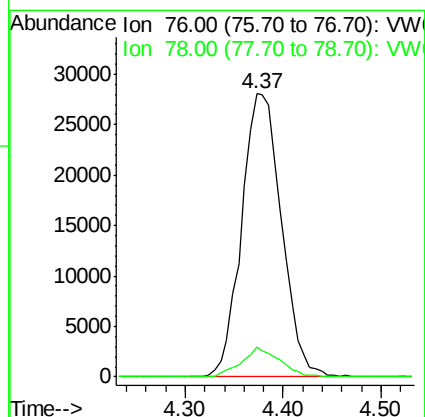
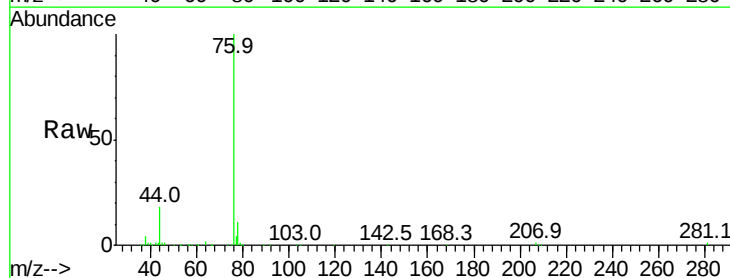
Acq: 20 Feb 2019 11:40

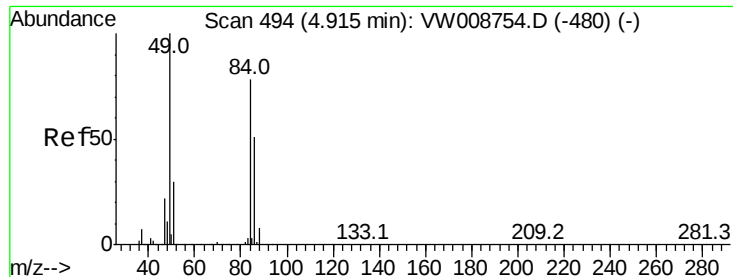
Tgt Ion: 76 Resp: 79234

Ion Ratio Lower Upper

76 100

78 10.6 7.8 11.6

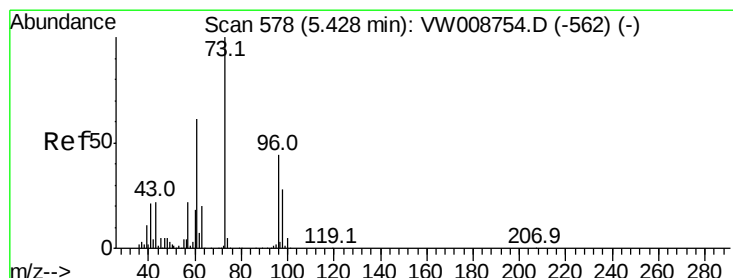
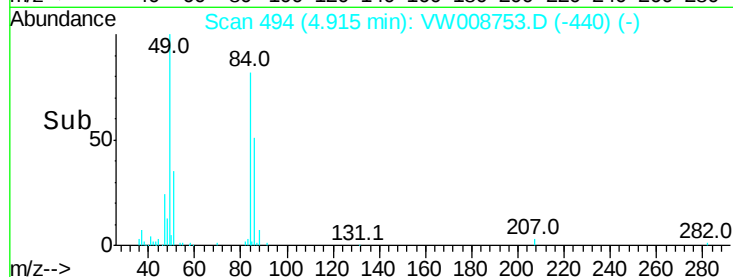
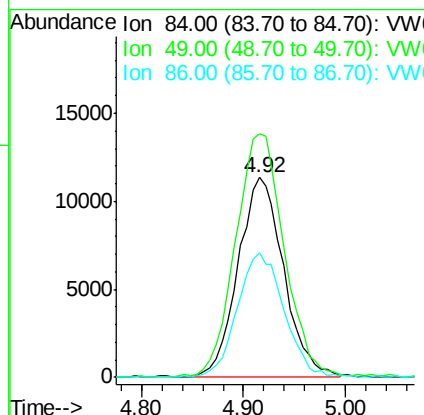
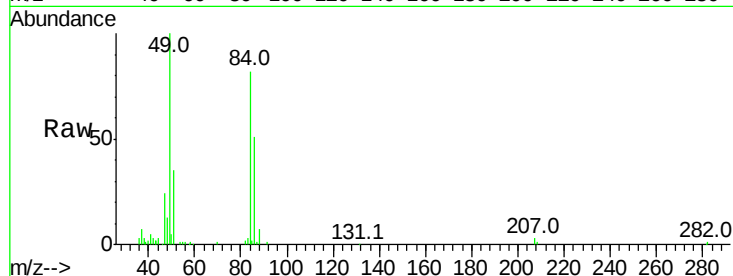




#16
Methylene chloride
Concen: 5.560 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW008753.D
Acq: 20 Feb 2019 11:40

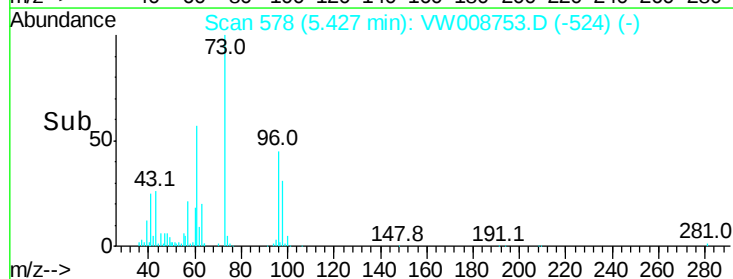
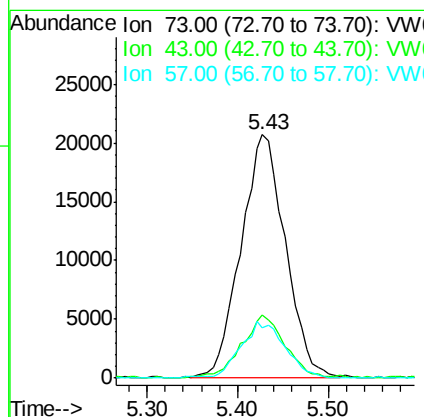
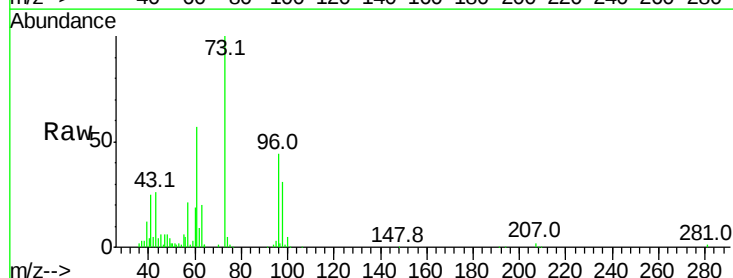
Instrument :
MSVOA_W
ClientSampleId :
VSTD00502

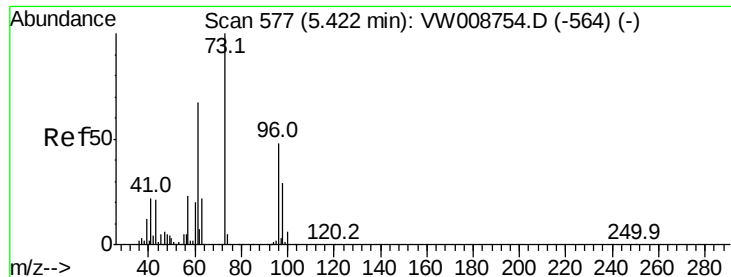
Tgt Ion: 84 Resp: 35250
Ion Ratio Lower Upper
84 100
49 122.0 90.2 167.4
86 62.3 46.0 85.4



#17
Methyl tert-butyl Ether
Concen: 8.732 ug/L
RT: 5.43 min Scan# 578
Delta R.T. -0.00 min
Lab File: VW008753.D
Acq: 20 Feb 2019 11:40

Tgt Ion: 73 Resp: 70294
Ion Ratio Lower Upper
73 100
43 25.3 17.8 26.8
57 11.3 17.2 25.8#





#18

trans-1,2-Dichloroethene

Concen: 5.634 ug/L

RT: 5.43 min Scan# 578

Delta R.T. 0.01 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

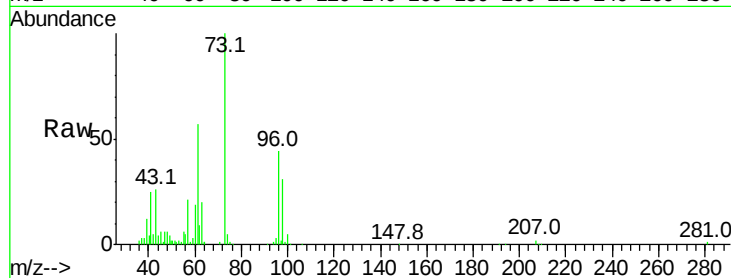
Tgt Ion: 96 Resp: 27678

Ion Ratio Lower Upper

96 100

61 128.9 97.9 181.7

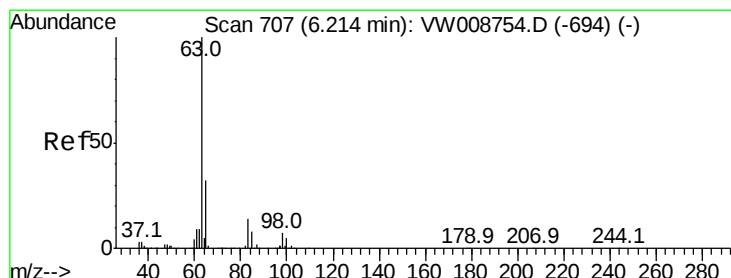
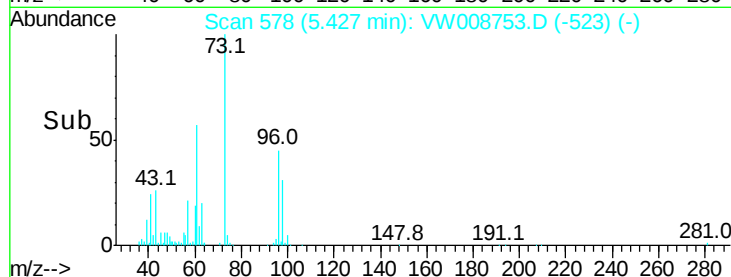
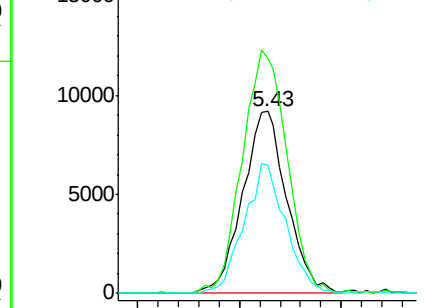
98 70.4 42.6 79.0



Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW



#19

1,1-Dichloroethane

Concen: 5.567 ug/L

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

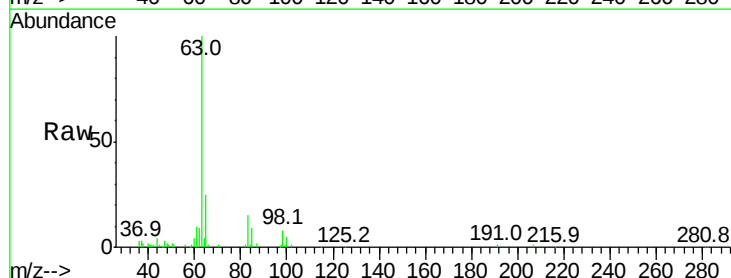
Tgt Ion: 63 Resp: 45502

Ion Ratio Lower Upper

63 100

65 25.5 22.7 42.1

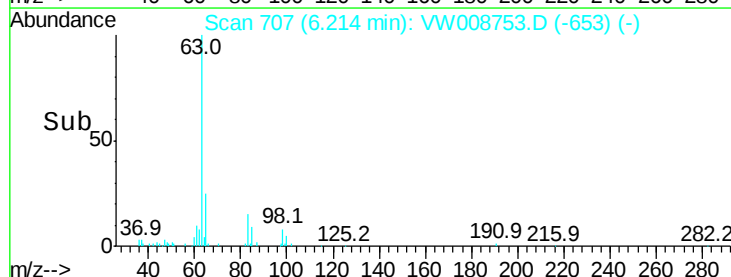
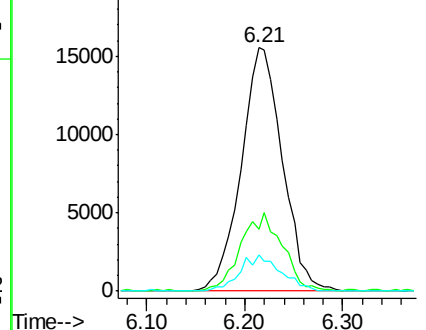
83 14.9 9.7 17.9

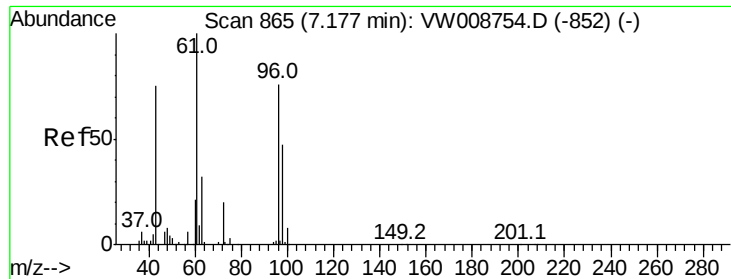


Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW





#21

2-Butanone

Concen: 13.722 ug/L

RT: 7.18 min Scan# 865

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampled :

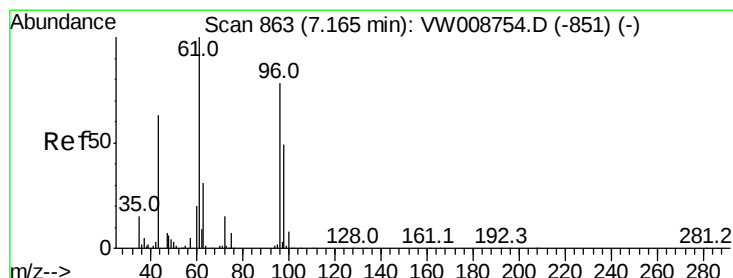
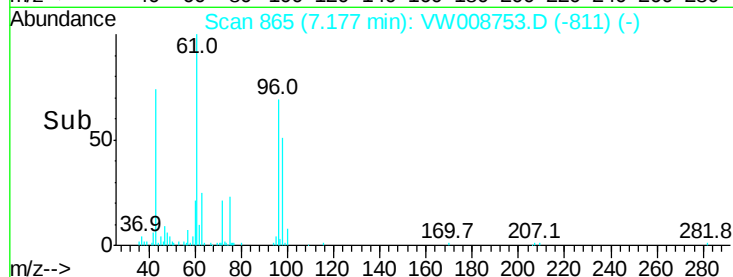
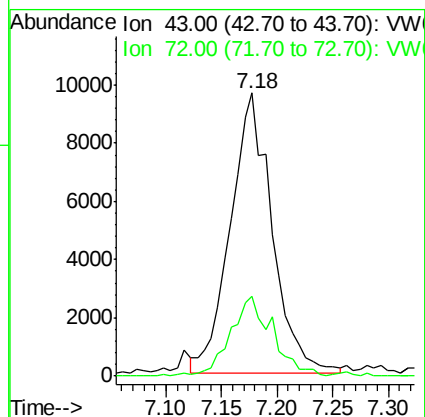
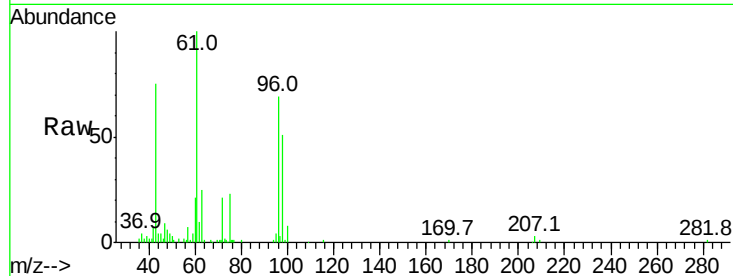
VSTD00502

Tgt Ion: 43 Resp: 25120

Ion Ratio Lower Upper

43 100

72 21.2 12.7 38.1



#22

cis-1,2-Dichloroethene

Concen: 5.546 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

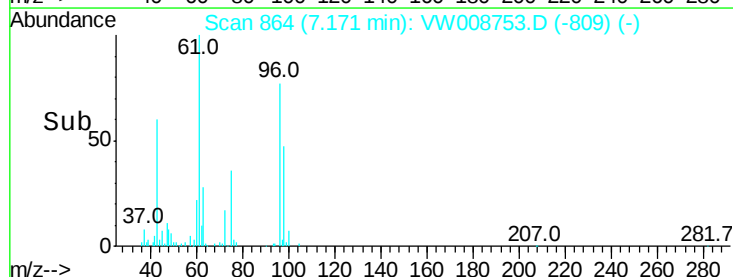
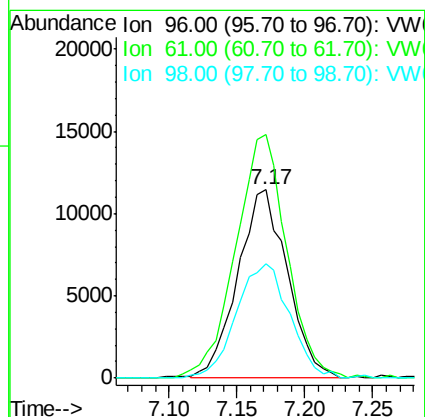
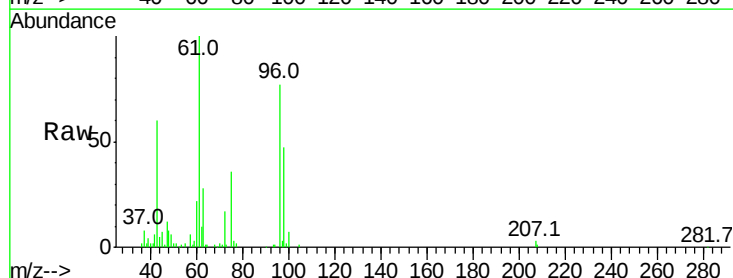
Tgt Ion: 96 Resp: 29193

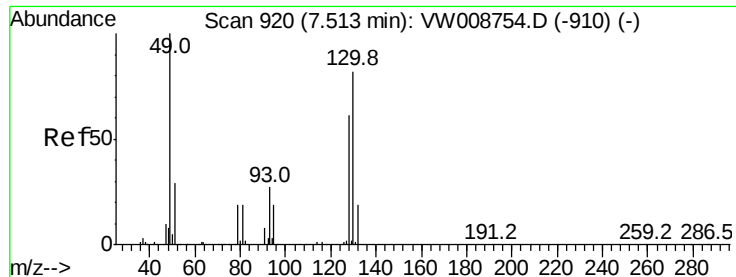
Ion Ratio Lower Upper

96 100

61 129.3 90.4 168.0

98 60.5 44.0 81.6





#23

Bromochloromethane

Concen: 5.565 ug/L

RT: 7.51 min Scan# 920

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

Tgt Ion:128 Resp: 13189

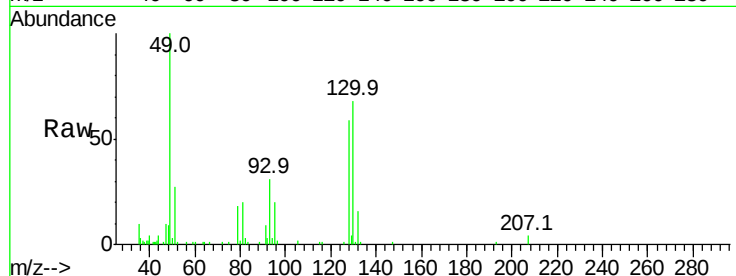
Ion Ratio Lower Upper

128 100

49 168.4 115.6 214.8

130 114.1 94.6 175.8

51 46.2 37.9 56.9

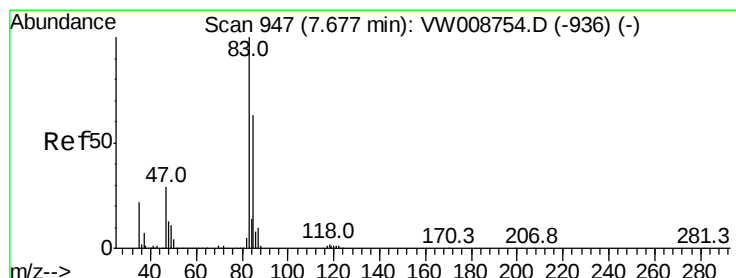
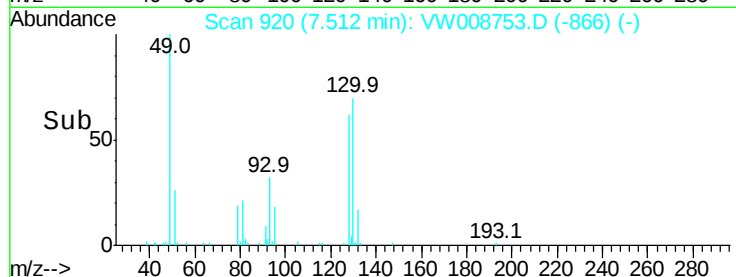
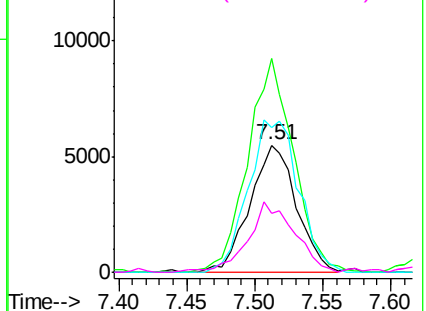


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VV

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VV



#25

Chloroform

Concen: 5.191 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.01 min

Lab File: VW008753.D

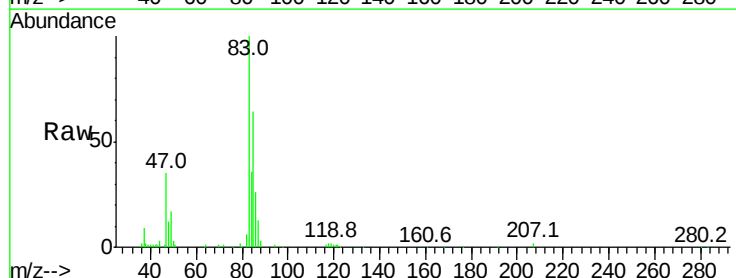
Acq: 20 Feb 2019 11:40

Tgt Ion: 83 Resp: 47785

Ion Ratio Lower Upper

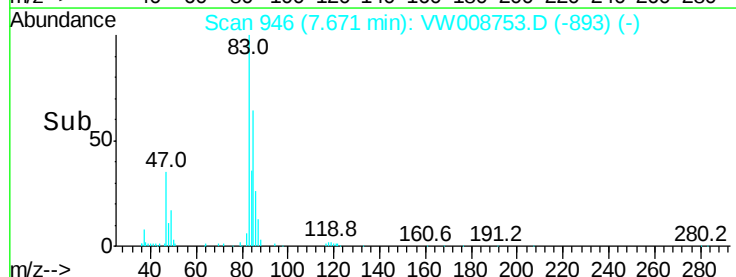
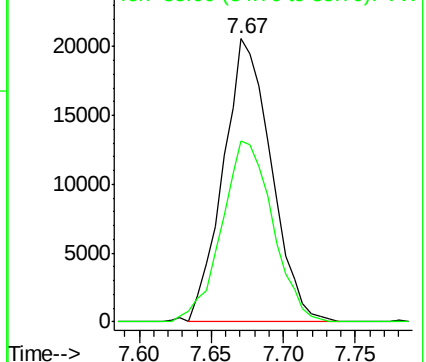
83 100

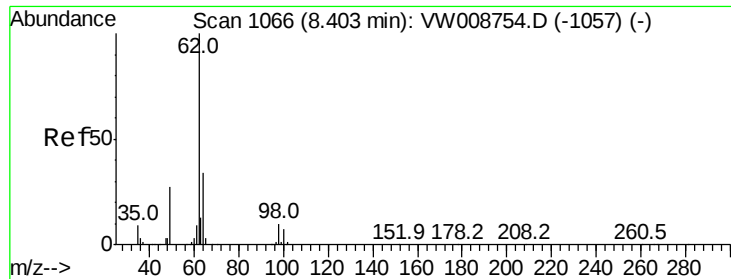
85 67.7 45.3 84.1



Abundance Ion 83.00 (82.70 to 83.70): VV

Ion 85.00 (84.70 to 85.70): VV

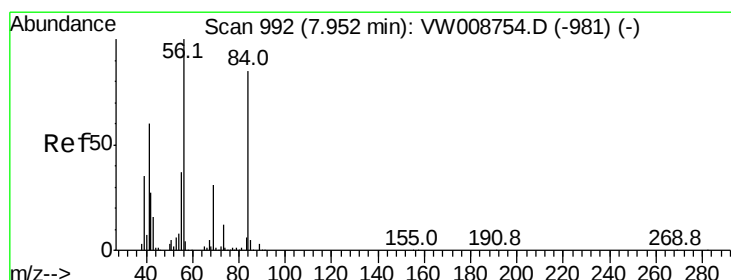
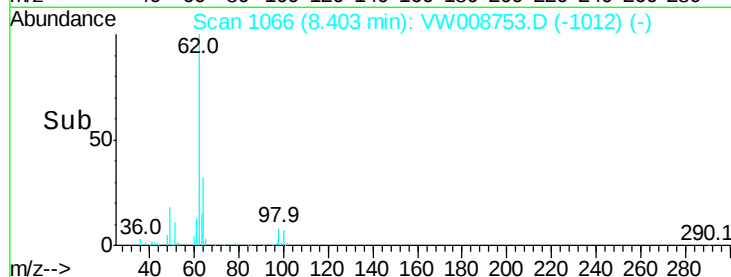
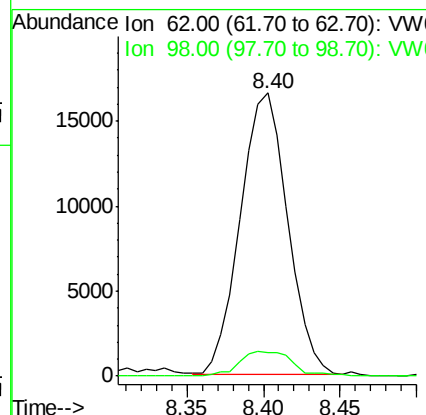
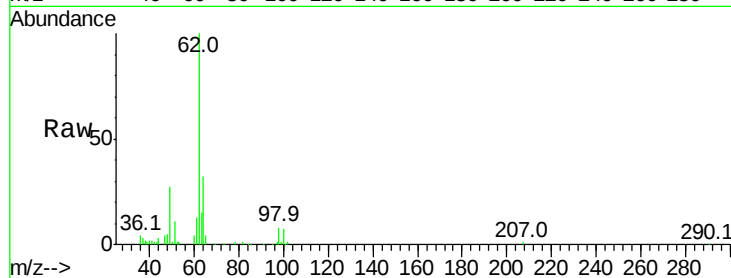




#27
 1,2-Dichloroethane
 Concen: 5.270 ug/L
 RT: 8.40 min Scan# 1066
 Delta R.T. -0.00 min
 Lab File: VW008753.D
 Acq: 20 Feb 2019 11:40

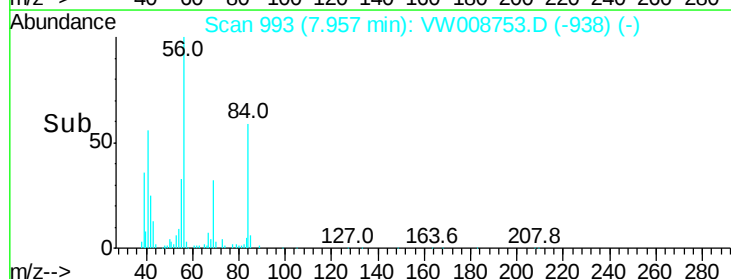
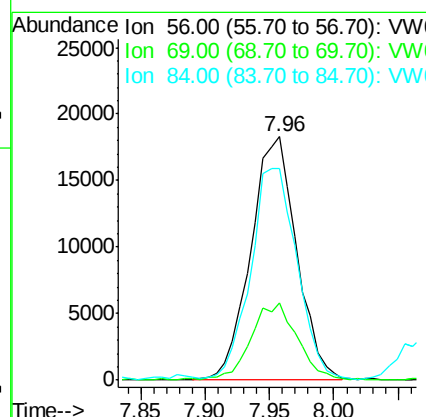
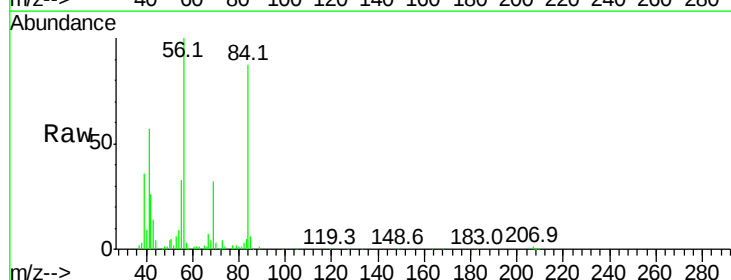
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00502

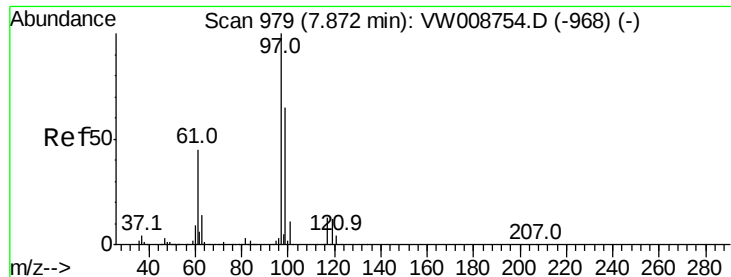
Tgt Ion: 62 Resp: 35577
 Ion Ratio Lower Upper
 62 100
 98 8.3 7.8 11.8



#30
 Cyclohexane
 Concen: 5.351 ug/L
 RT: 7.96 min Scan# 993
 Delta R.T. 0.01 min
 Lab File: VW008753.D
 Acq: 20 Feb 2019 11:40

Tgt Ion: 56 Resp: 45125
 Ion Ratio Lower Upper
 56 100
 69 31.8 24.1 36.1
 84 88.7 71.7 107.5





#31

1,1,1-Trichloroethane

Concen: 4.997 ug/L

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

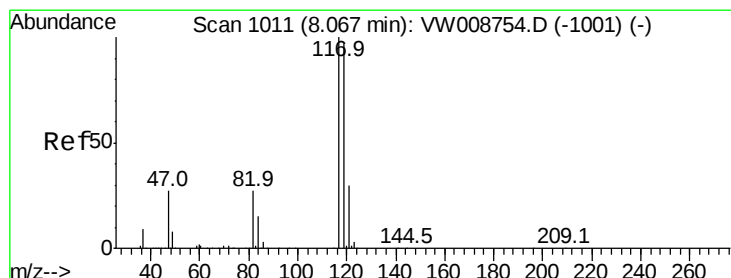
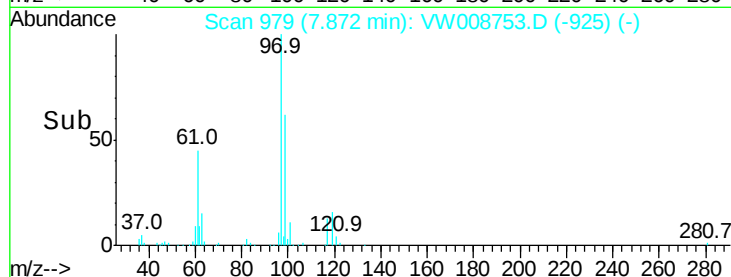
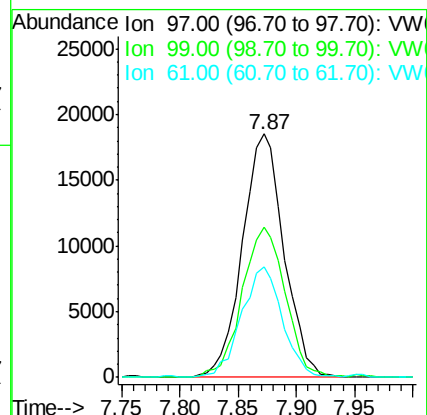
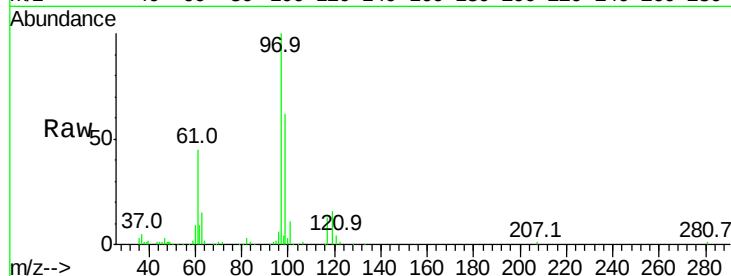
Tgt Ion: 97 Resp: 45922

Ion Ratio Lower Upper

97 100

99 63.8 51.4 77.2

61 44.9 36.6 55.0



#32

Carbon tetrachloride

Concen: 4.741 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW008753.D

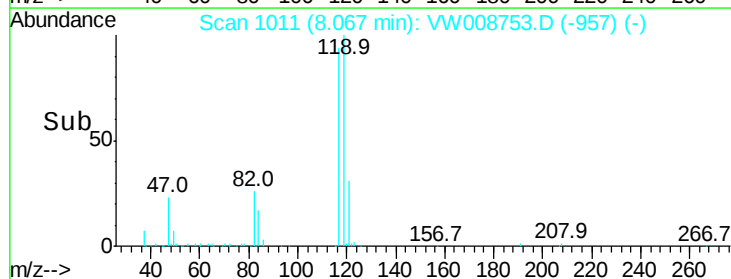
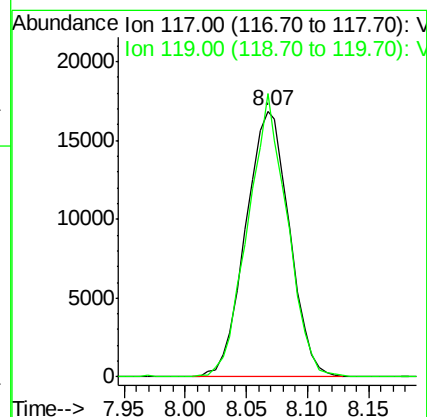
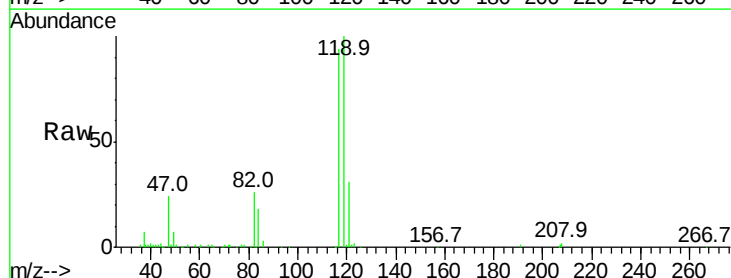
Acq: 20 Feb 2019 11:40

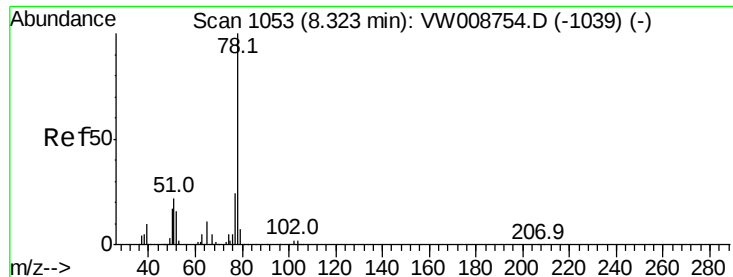
Tgt Ion: 117 Resp: 41833

Ion Ratio Lower Upper

117 100

119 96.3 76.0 114.0





#34

Benzene

Concen: 5.161 ug/L

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

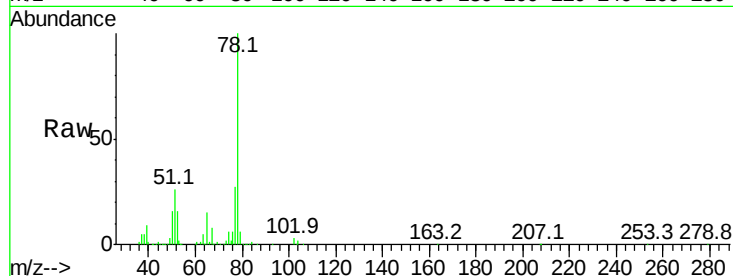
Instrument :

MSVOA_W

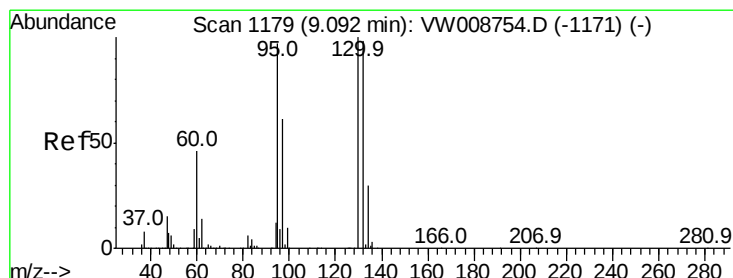
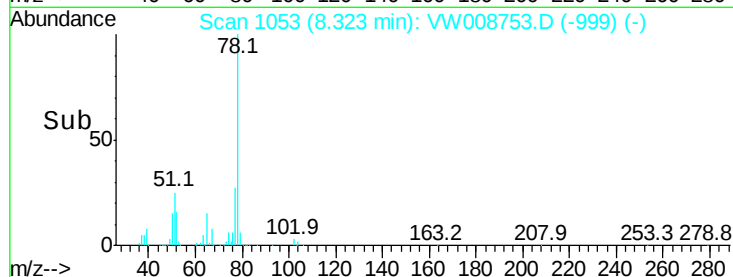
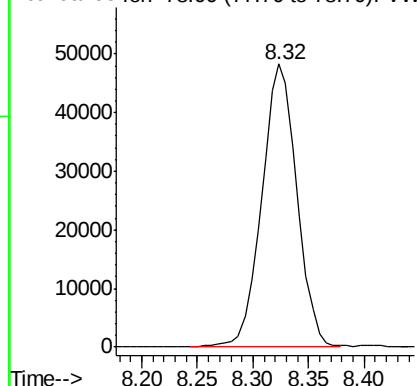
ClientSampleId :

VSTD00502

Tgt Ion: 78 Resp: 105853



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 4.876 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Tgt Ion: 95 Resp: 29056

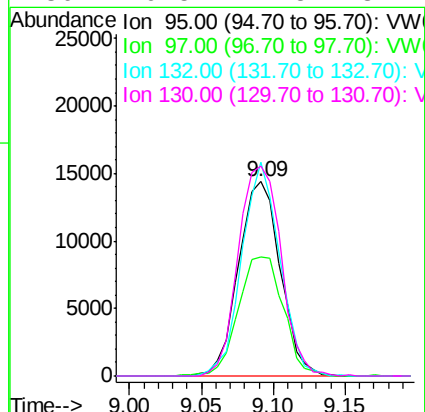
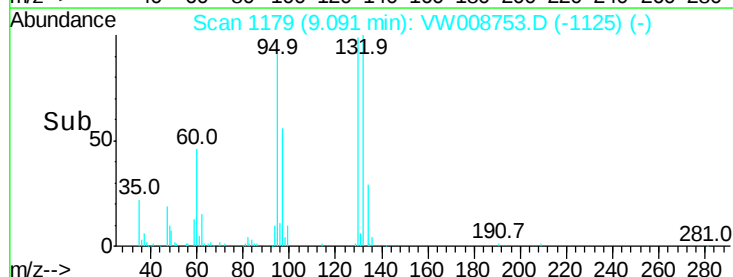
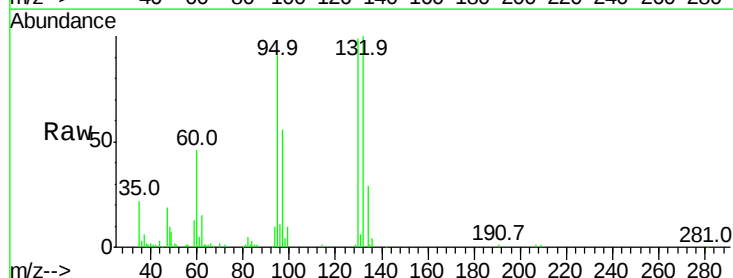
Ion	Ratio	Lower	Upper
95	100		
97	65.5	45.4	84.2
132	99.7	70.8	131.4
130	110.5	72.5	134.7

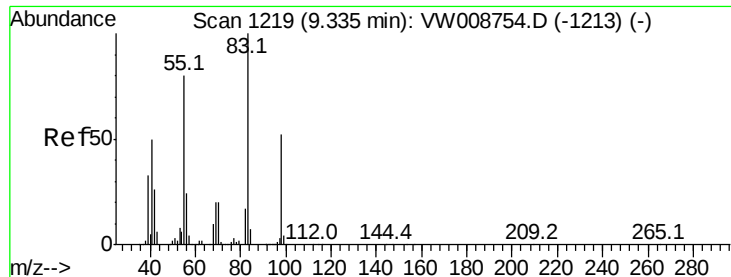
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

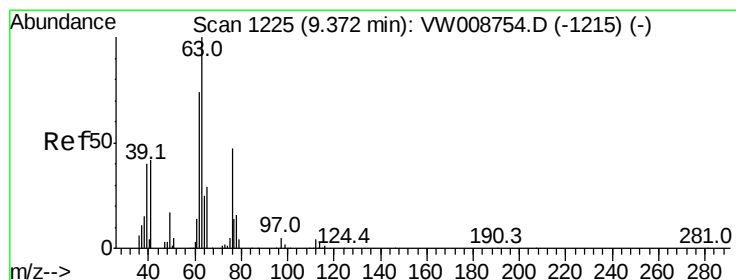
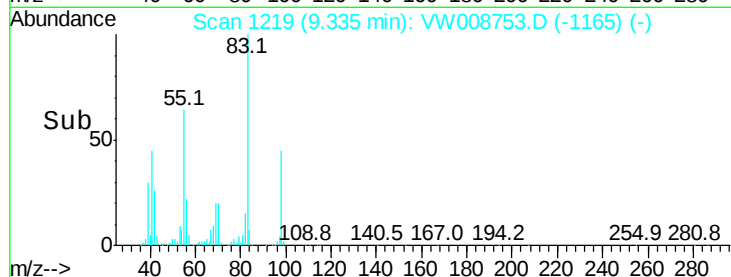
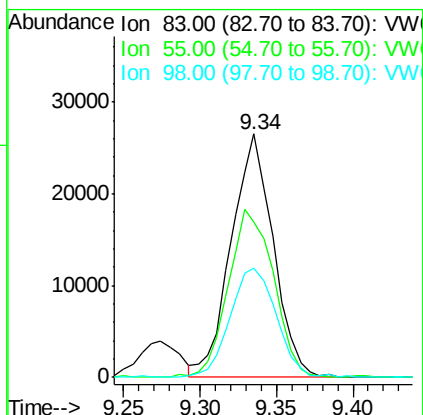
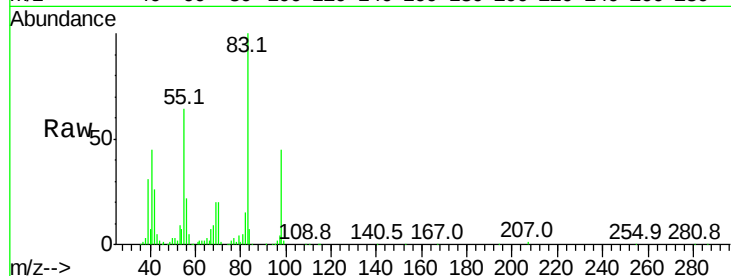




#36
Methylcyclohexane
Concen: 4.946 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW008753.D
Acq: 20 Feb 2019 11:40

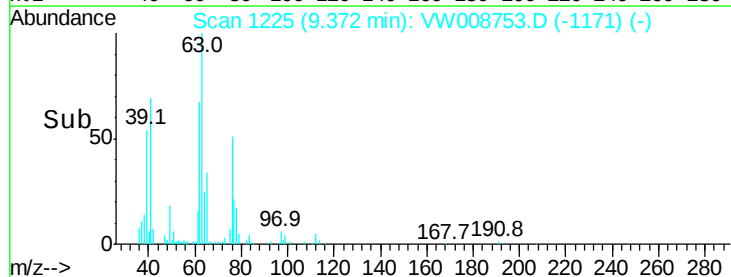
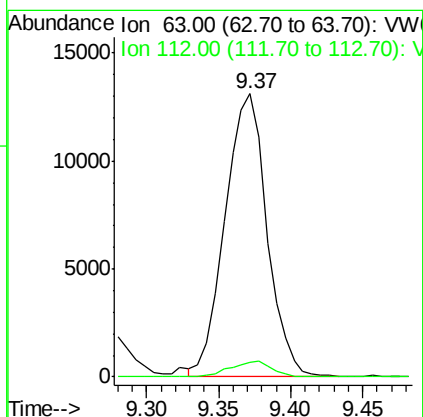
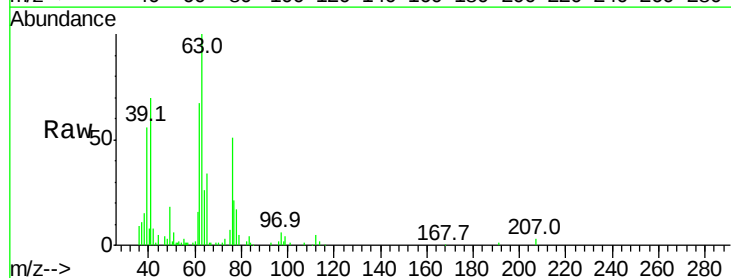
Instrument :
MSVOA_W
ClientSampleId :
VSTD00502

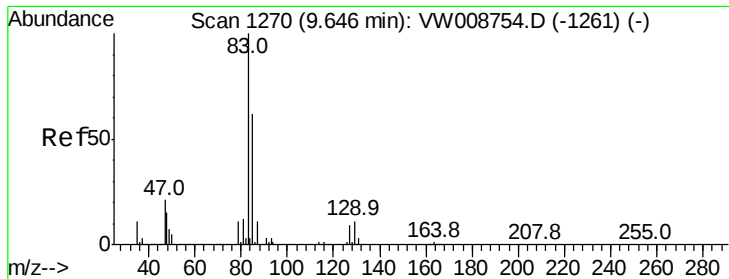
Tgt Ion	Ratio	Lower	Upper
83	100		
55	74.2	62.3	93.5
98	48.9	40.4	60.6



#40
1,2-Dichloropropane
Concen: 5.529 ug/L
RT: 9.37 min Scan# 1225
Delta R.T. -0.00 min
Lab File: VW008753.D
Acq: 20 Feb 2019 11:40

Tgt Ion	Ratio	Lower	Upper
63	100		
112	5.4	3.8	5.8





#41

Bromodichloromethane

Concen: 5.023 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

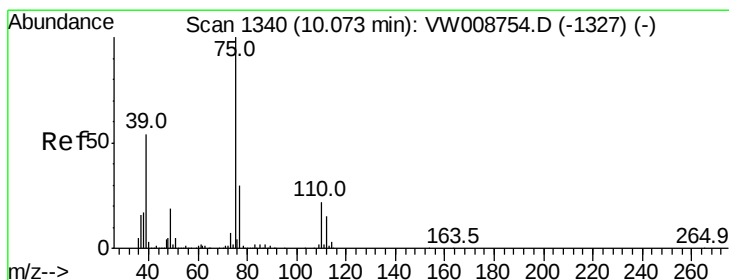
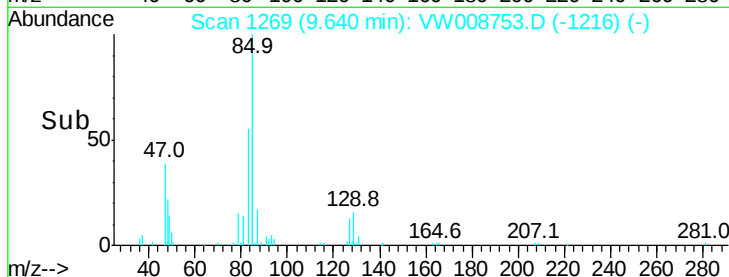
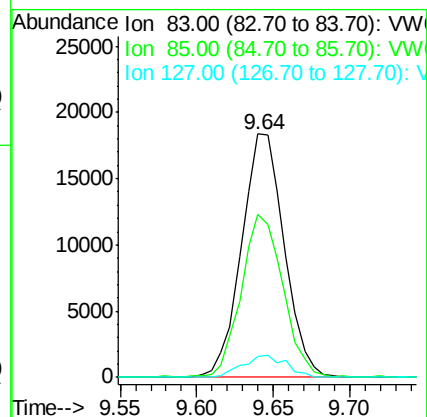
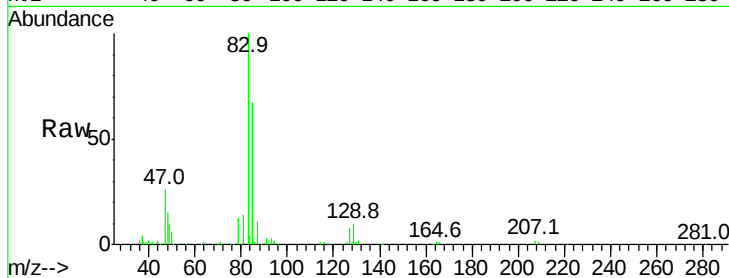
Tgt Ion: 83 Resp: 35616

Ion Ratio Lower Upper

83 100

85 66.7 43.6 81.0

127 8.4 7.4 11.0



#42

cis-1,3-Dichloropropene

Concen: 4.944 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW008753.D

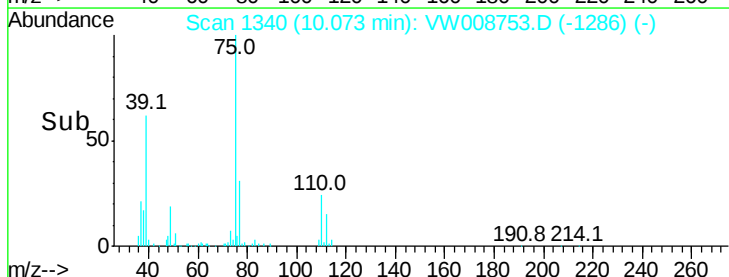
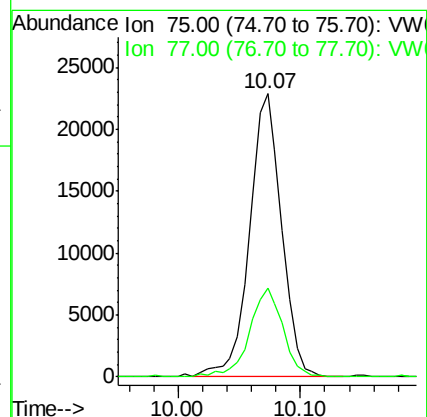
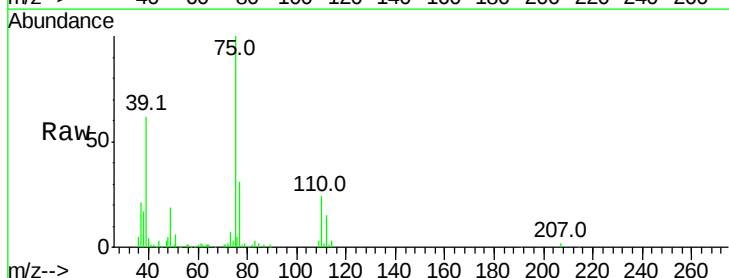
Acq: 20 Feb 2019 11:40

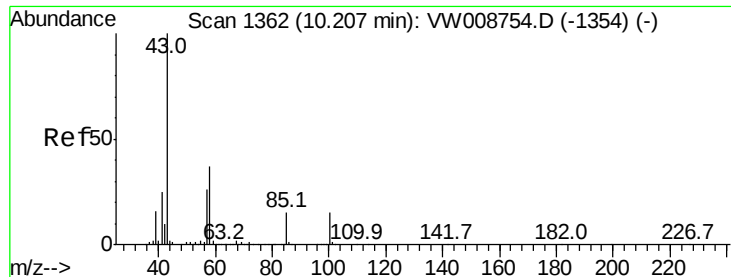
Tgt Ion: 75 Resp: 41613

Ion Ratio Lower Upper

75 100

77 31.2 20.8 38.6

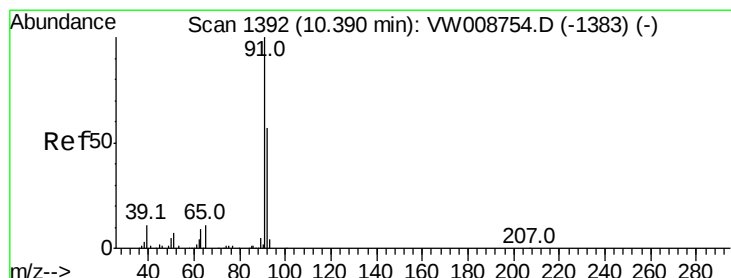
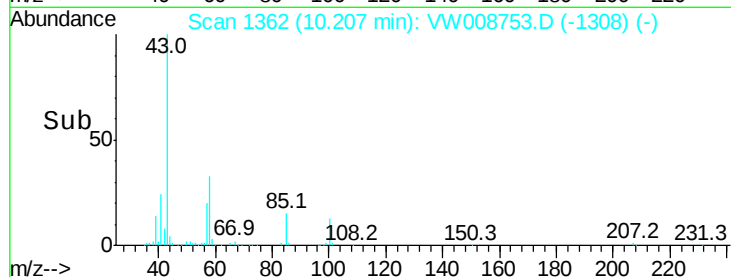
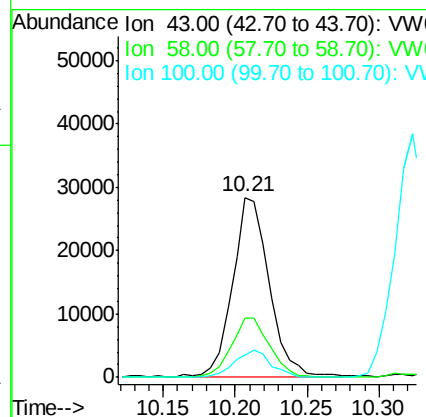
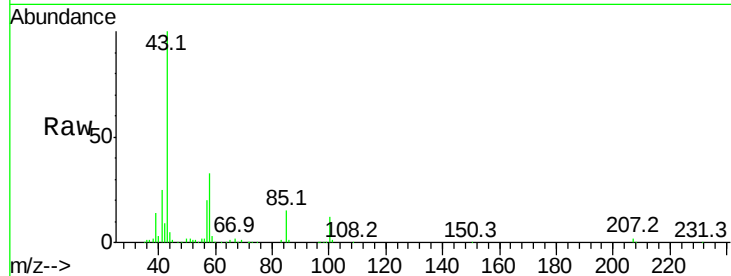




#43
4-Methyl-2-pentanone
Concen: 12.975 ug/L
RT: 10.21 min Scan# 1362
Delta R.T. -0.00 min
Lab File: VW008753.D
Acq: 20 Feb 2019 11:40

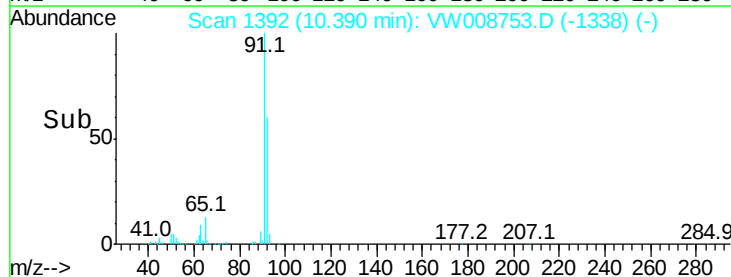
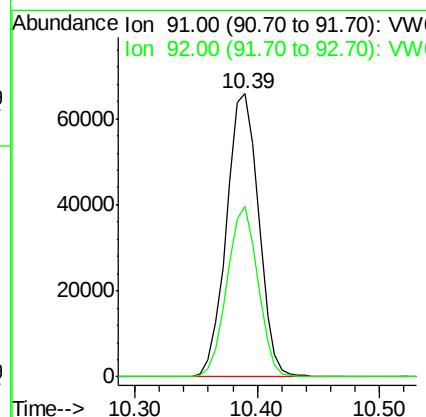
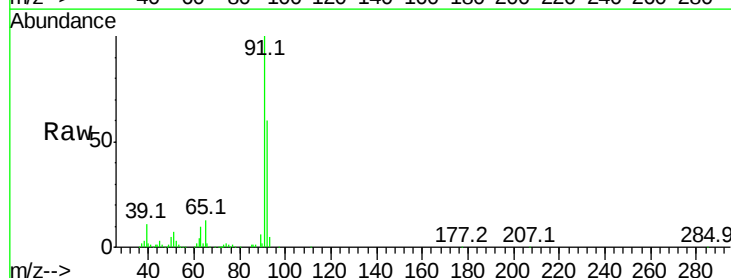
Instrument :
MSVOA_W
ClientSampleId :
VSTD00502

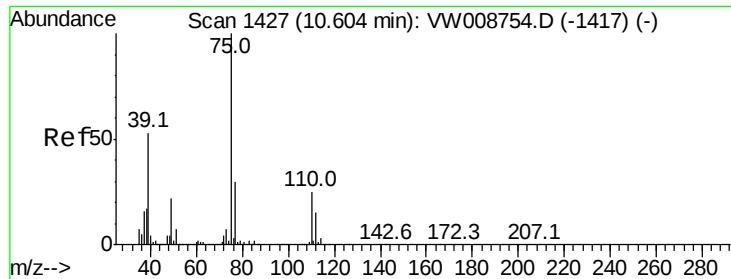
Tgt Ion: 43 Resp: 49515
Ion Ratio Lower Upper
43 100
58 35.1 29.4 44.0
100 15.2 12.1 18.1



#44
Toluene
Concen: 5.228 ug/L
RT: 10.39 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VW008753.D
Acq: 20 Feb 2019 11:40

Tgt Ion: 91 Resp: 119981
Ion Ratio Lower Upper
91 100
92 60.4 40.2 74.6





#45

trans-1,3-Dichloropropene

Concen: 4.724 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampleId :

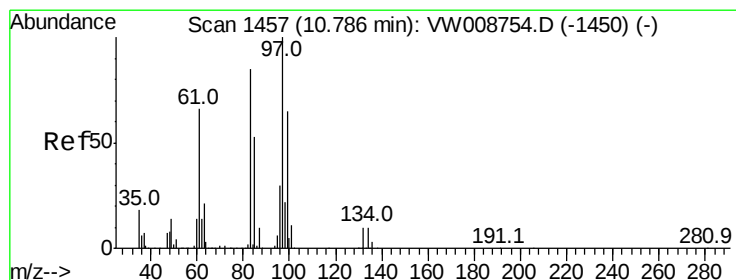
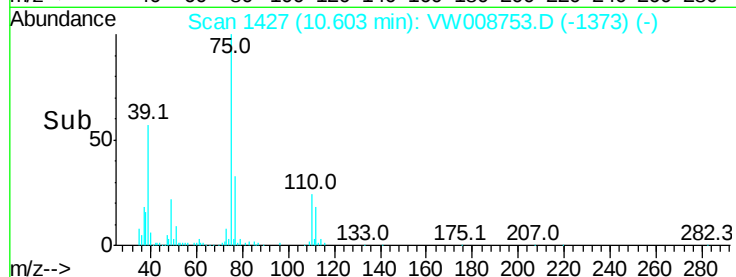
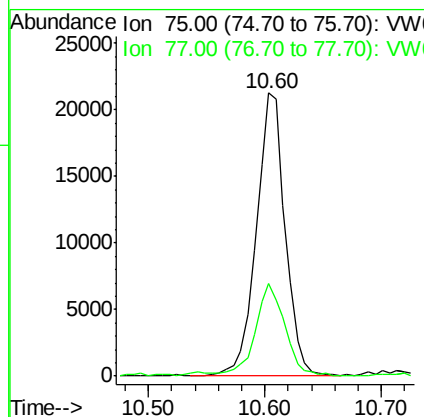
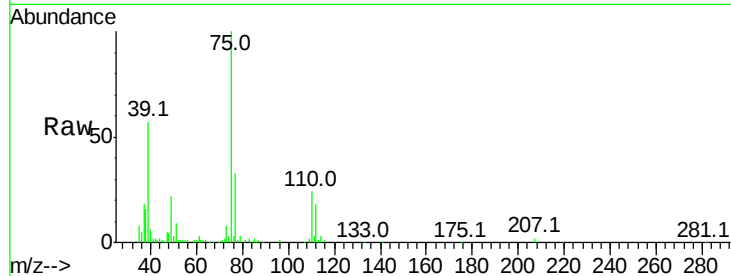
VSTD00502

Tgt Ion: 75 Resp: 36633

Ion Ratio Lower Upper

75 100

77 32.9 21.1 39.3



#46

1,1,2-Trichloroethane

Concen: 5.865 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Tgt Ion: 97 Resp: 23924

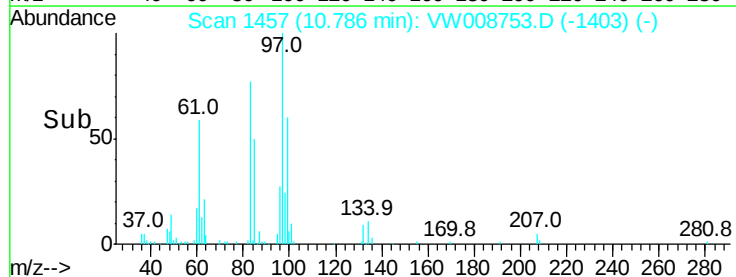
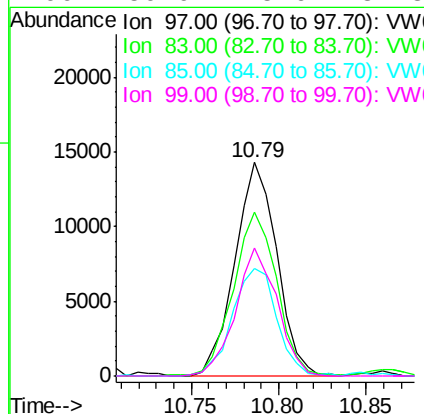
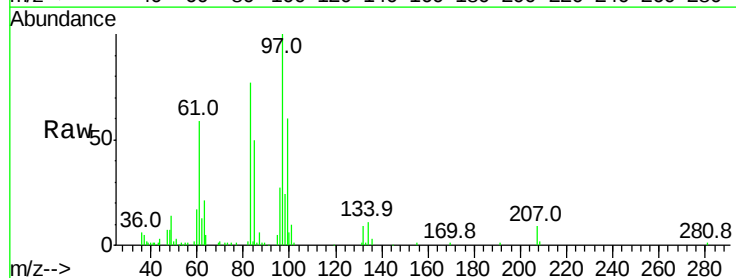
Ion Ratio Lower Upper

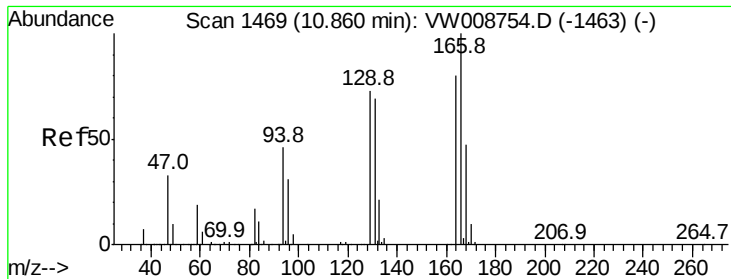
97 100

83 76.8 59.5 110.5

85 50.1 37.2 69.0

99 59.9 45.6 84.8





#47

Tetrachloroethene

Concen: 5.568 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

Tgt Ion:164 Resp: 26364

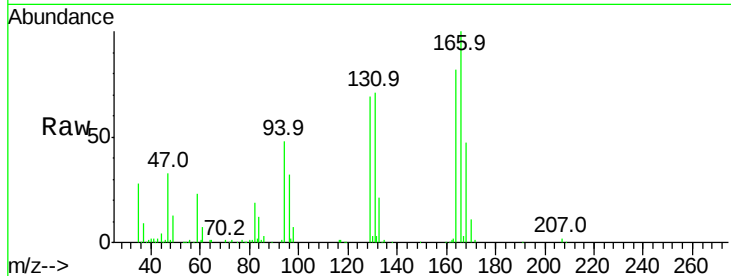
Ion Ratio Lower Upper

164 100

129 83.4 64.5 119.9

131 86.1 60.9 113.1

166 121.7 87.9 163.3

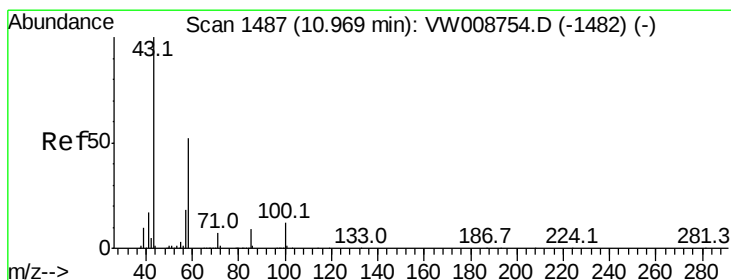
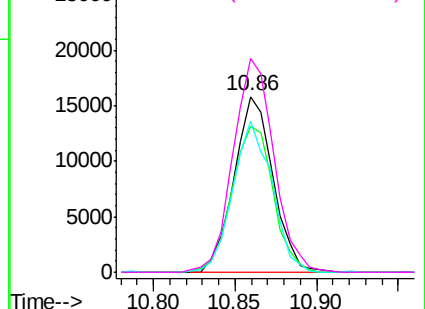
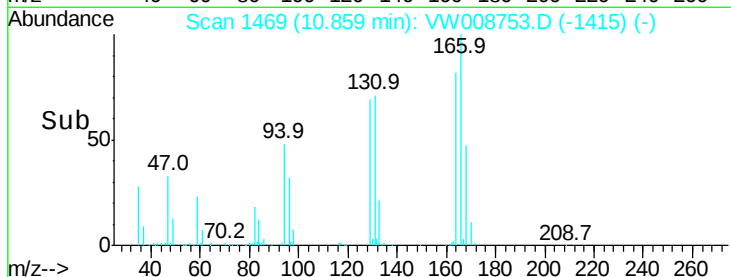


Abundance Ion 164.00 (163.70 to 164.70): V

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: 13.084 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Tgt Ion: 43 Resp: 36023

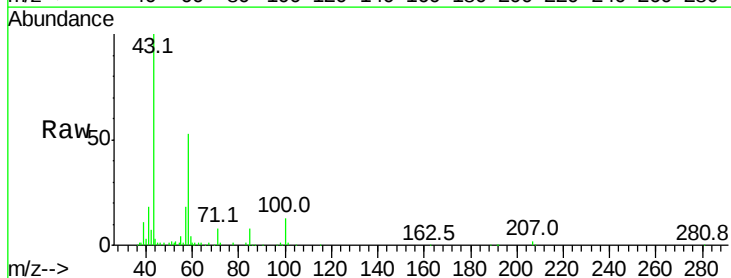
Ion Ratio Lower Upper

43 100

58 51.6 42.1 63.1

57 17.5 14.9 22.3

100 11.8 9.8 14.8

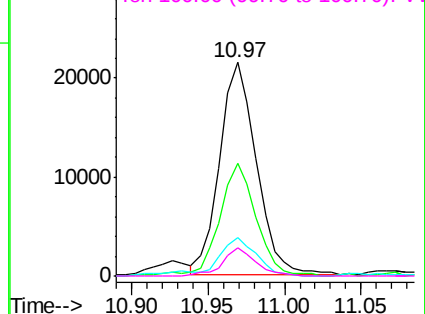
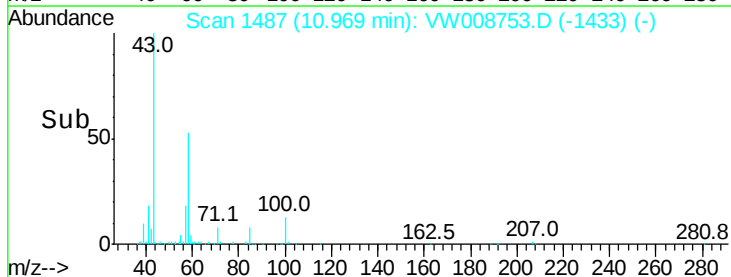


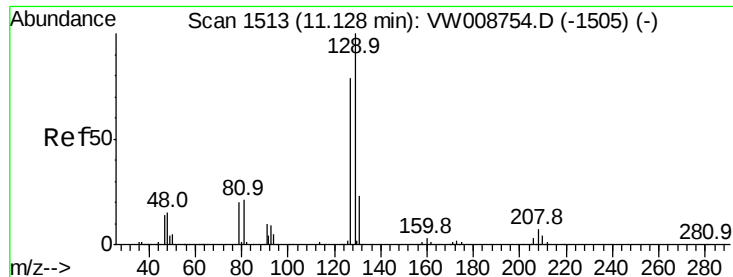
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 58.00 (57.70 to 58.70): VV

Ion 57.00 (56.70 to 57.70): VV

Ion 100.00 (99.70 to 100.70): VV





#50

Dibromochloromethane

Concen: 5.195 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampleId :

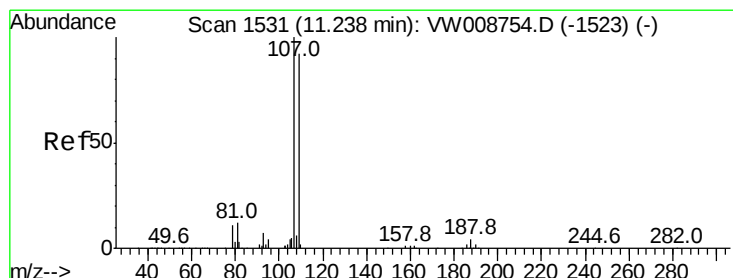
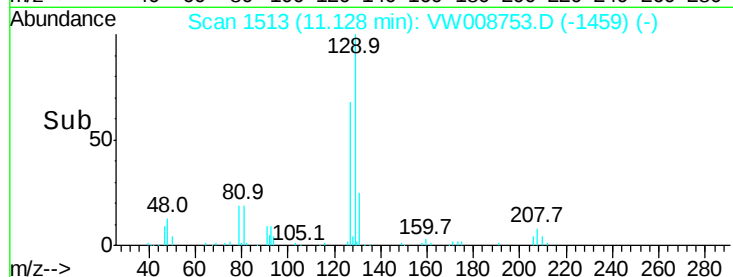
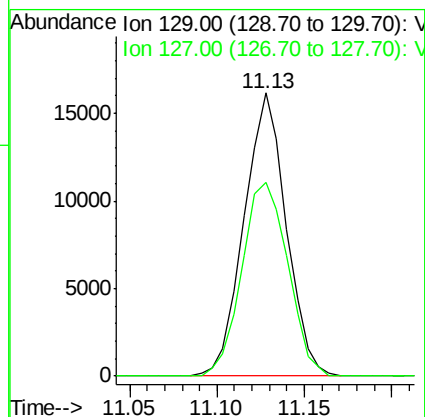
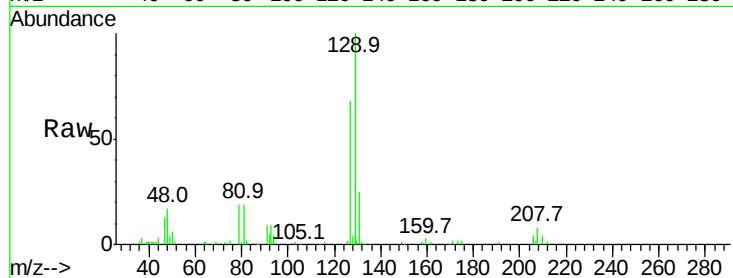
VSTD00502

Tgt Ion:129 Resp: 26998

Ion Ratio Lower Upper

129 100

127 68.5 55.3 102.7



#51

1,2-Dibromoethane

Concen: 5.542 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

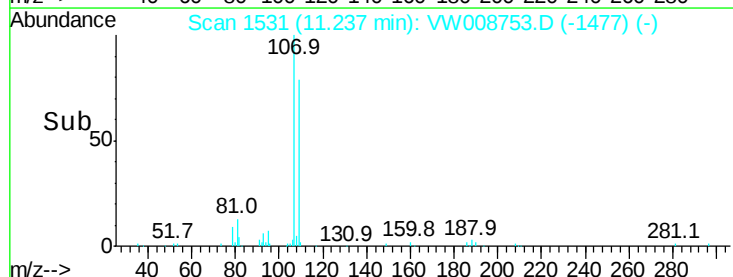
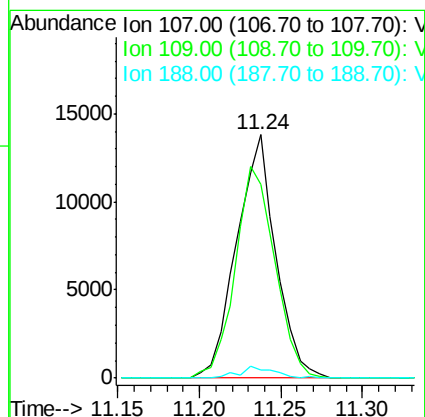
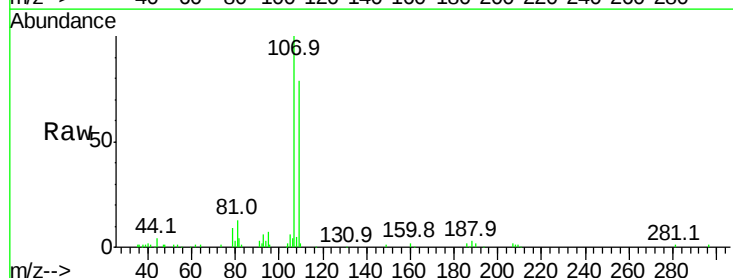
Tgt Ion:107 Resp: 23072

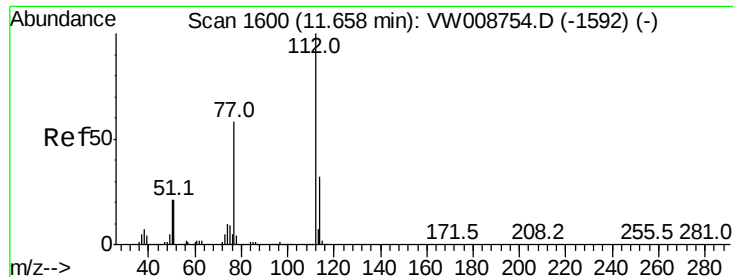
Ion Ratio Lower Upper

107 100

109 79.4 64.4 119.6

188 3.4 3.1 4.7





#52

Chlorobenzene

Concen: 5.543 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

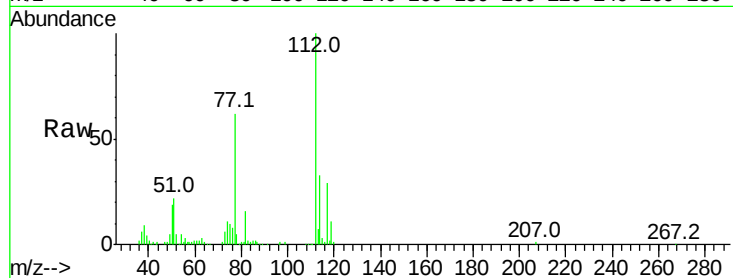
Tgt Ion: 112 Resp: 82808

Ion Ratio Lower Upper

112 100

77 61.5 47.0 70.4

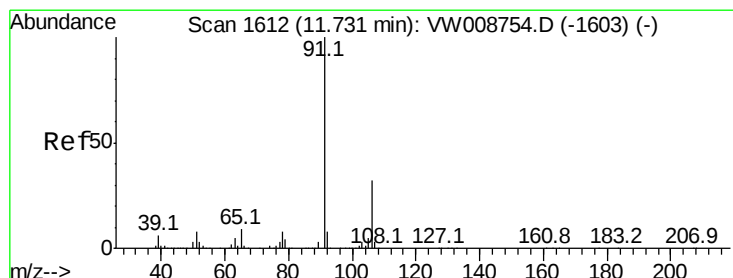
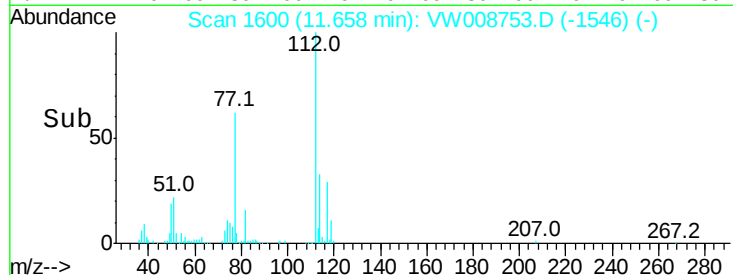
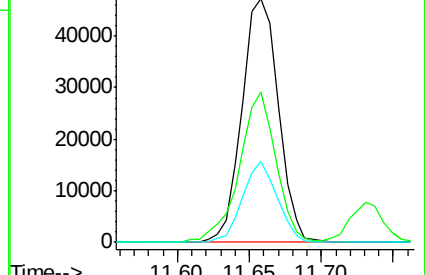
114 33.4 22.3 41.5



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 5.152 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW008753.D

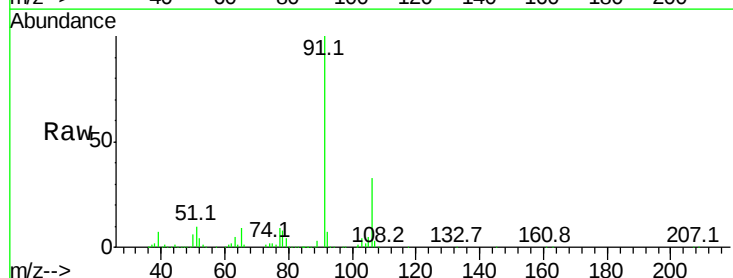
Acq: 20 Feb 2019 11:40

Tgt Ion: 91 Resp: 135837

Ion Ratio Lower Upper

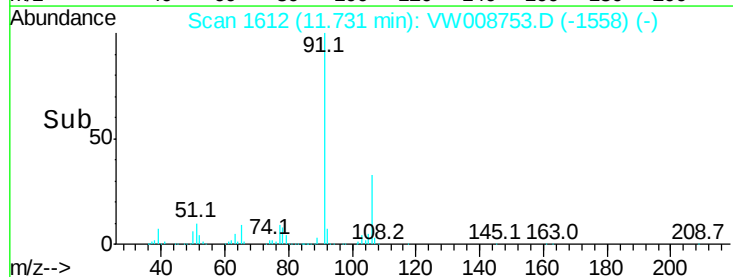
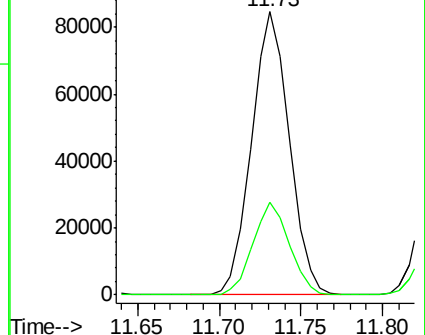
91 100

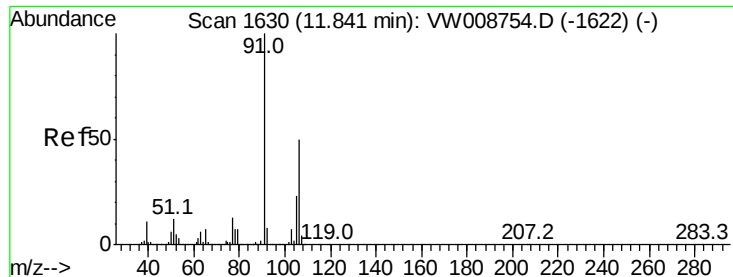
106 32.8 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 5.461 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampleId :

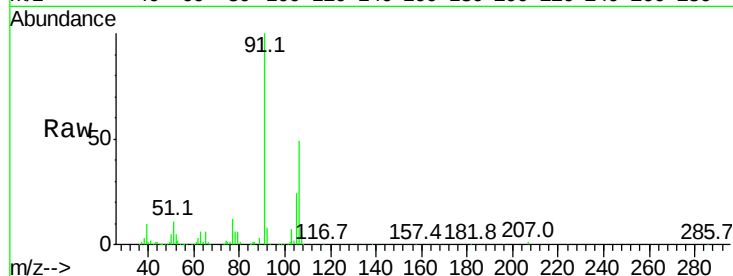
VSTD00502

Tgt Ion:106 Resp: 54250

Ion Ratio Lower Upper

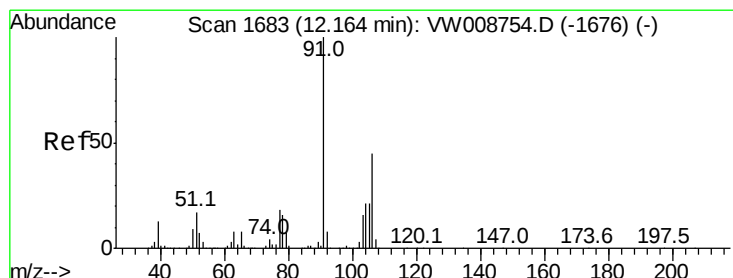
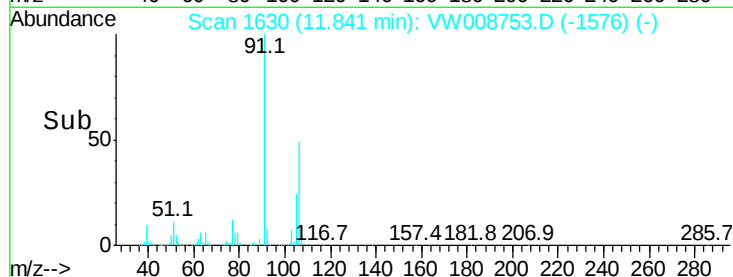
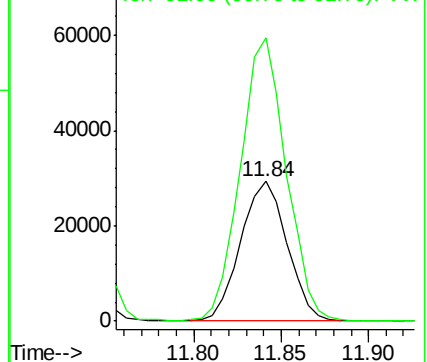
106 100

91 202.9 140.1 260.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 5.461 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VW008753.D

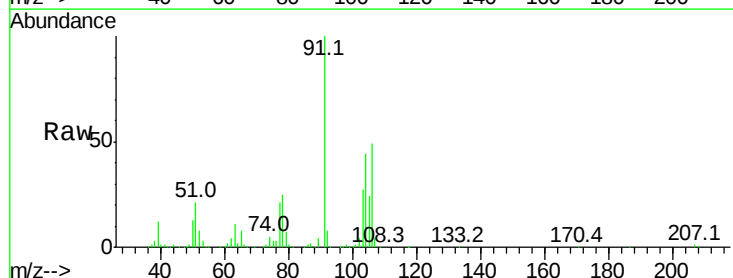
Acq: 20 Feb 2019 11:40

Tgt Ion:106 Resp: 51451

Ion Ratio Lower Upper

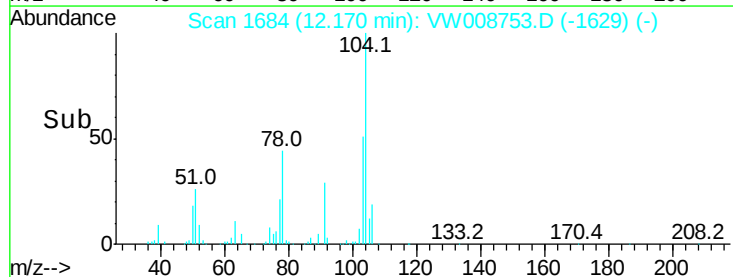
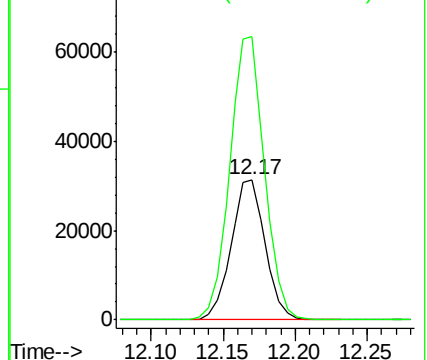
106 100

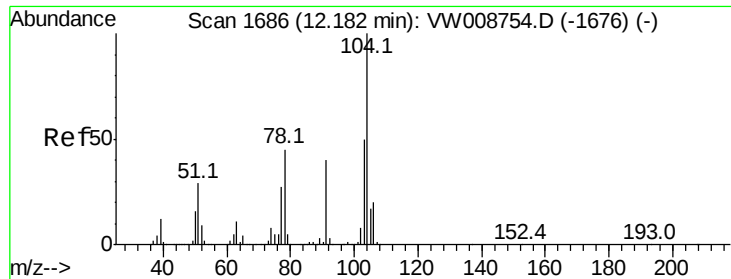
91 202.1 154.1 286.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Styrene

Concen: 5.200 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampleId :

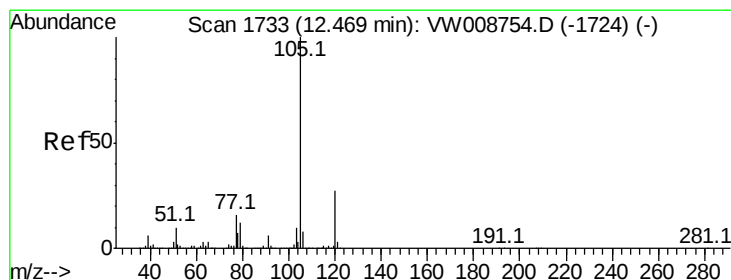
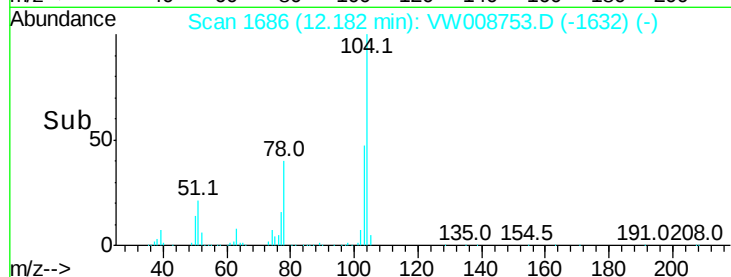
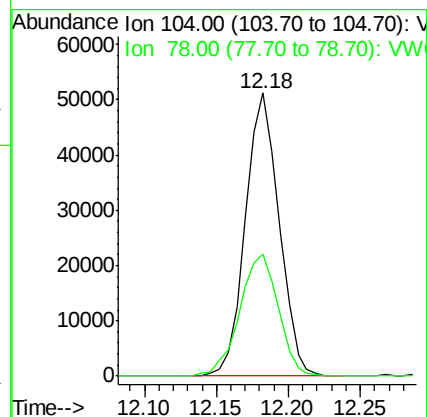
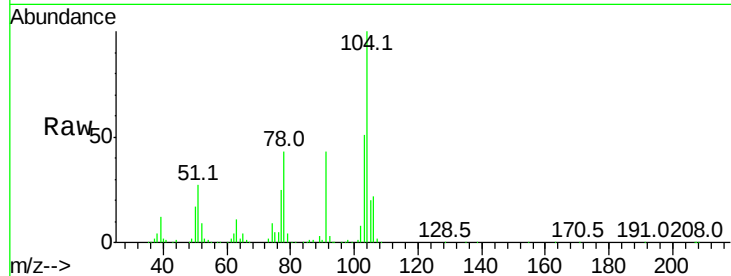
VSTD00502

Tgt Ion:104 Resp: 83041

Ion Ratio Lower Upper

104 100

78 43.1 31.4 58.4



#57

Isopropylbenzene

Concen: 5.097 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.01 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

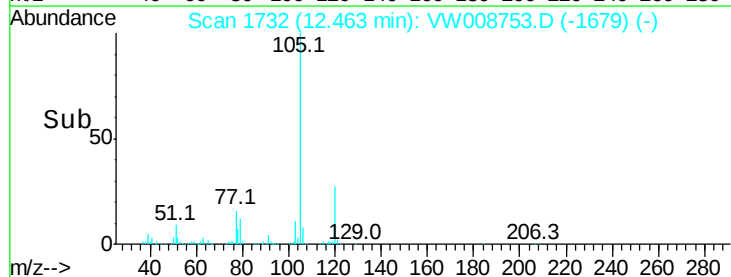
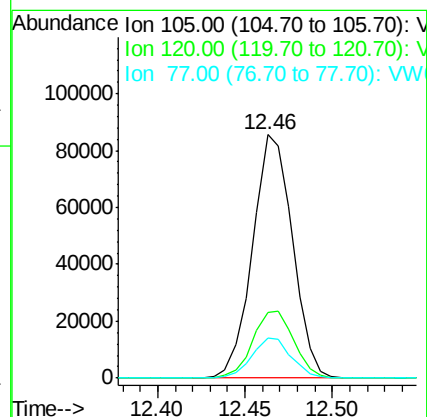
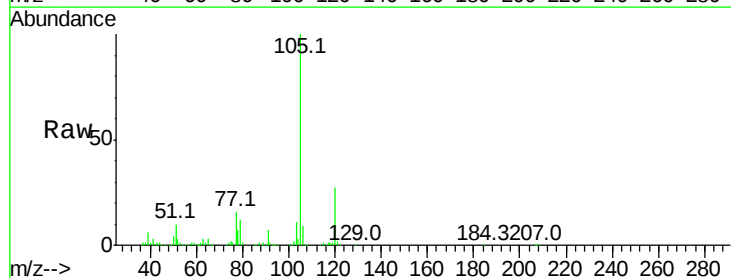
Tgt Ion:105 Resp: 136021

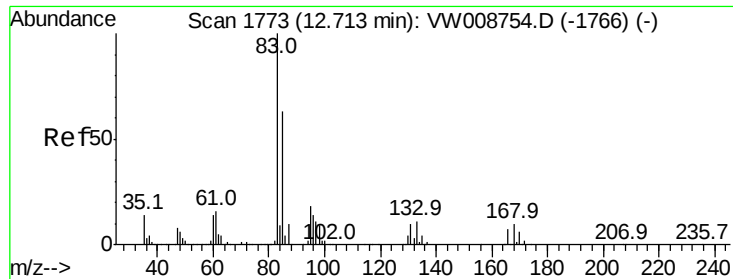
Ion Ratio Lower Upper

105 100

120 28.3 21.1 31.7

77 16.3 12.6 19.0





#58

1,1,2,2-Tetrachloroethane

Concen: 6.097 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

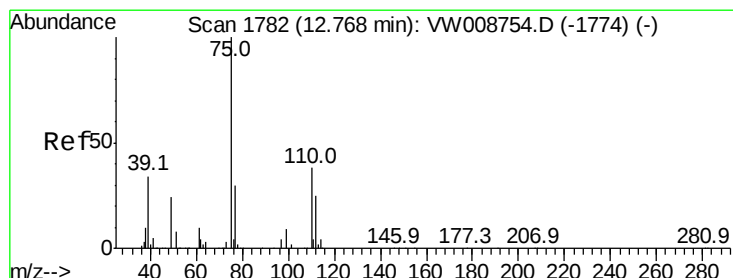
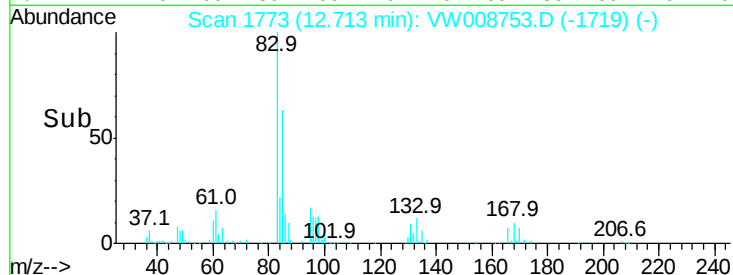
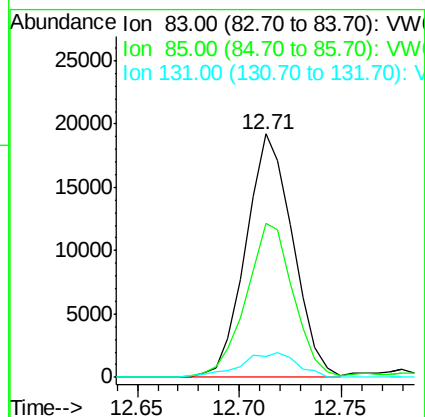
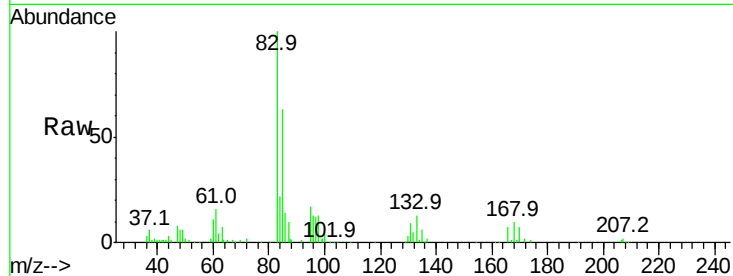
Tgt Ion: 83 Resp: 30838

Ion Ratio Lower Upper

83 100

85 63.1 43.9 81.5

131 8.8 8.6 12.8



#59

1,2,3-Trichloropropane

Concen: 5.715 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW008753.D

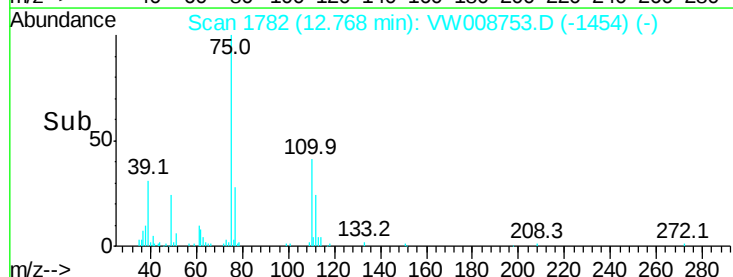
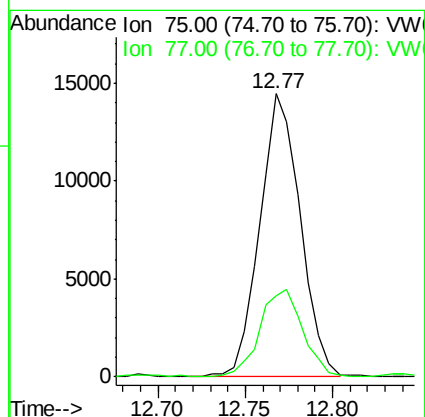
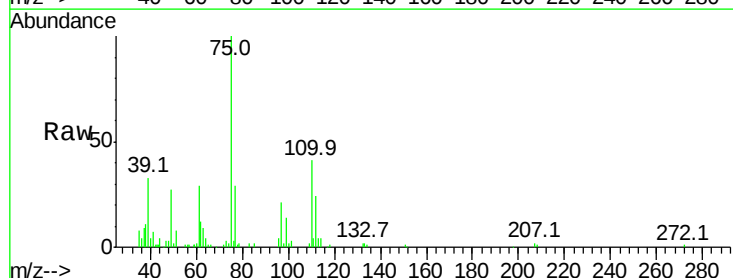
Acq: 20 Feb 2019 11:40

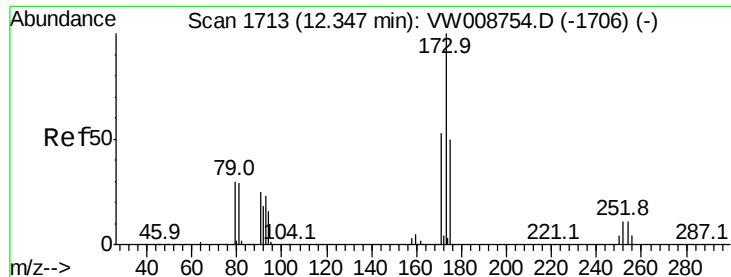
Tgt Ion: 75 Resp: 23251

Ion Ratio Lower Upper

75 100

77 32.8 25.4 38.2





#62

Bromoform

Concen: 4.823 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

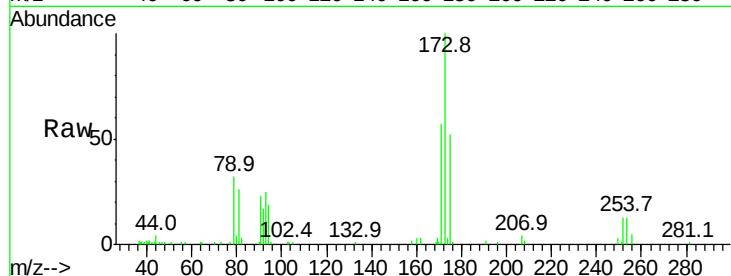
Tgt Ion:173 Resp: 16124

Ion Ratio Lower Upper

173 100

175 50.0 39.4 59.2

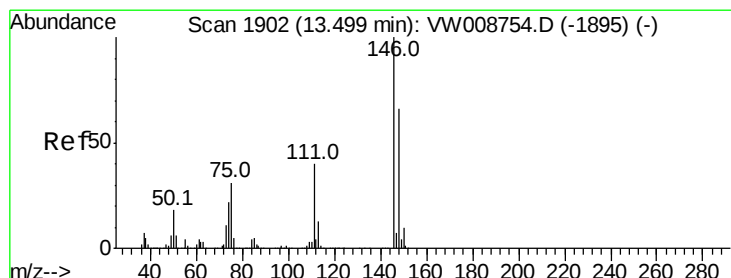
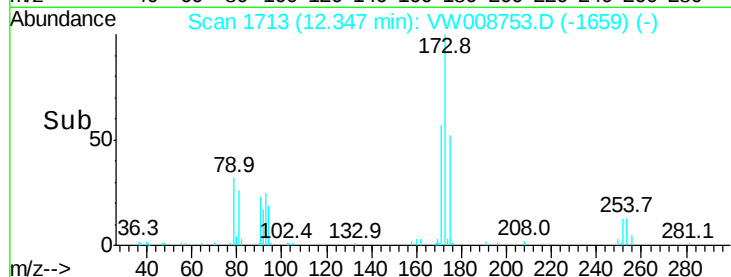
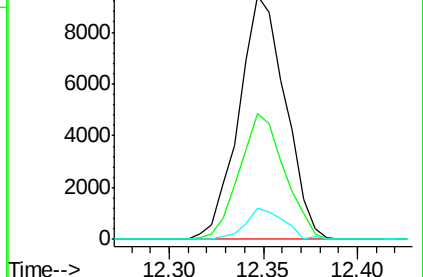
254 10.3 8.3 12.5



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#63

1,3-Dichlorobenzene

Concen: 5.075 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

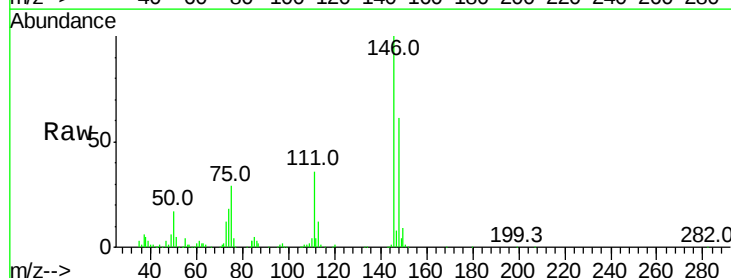
Tgt Ion:146 Resp: 68815

Ion Ratio Lower Upper

146 100

111 36.2 27.6 51.4

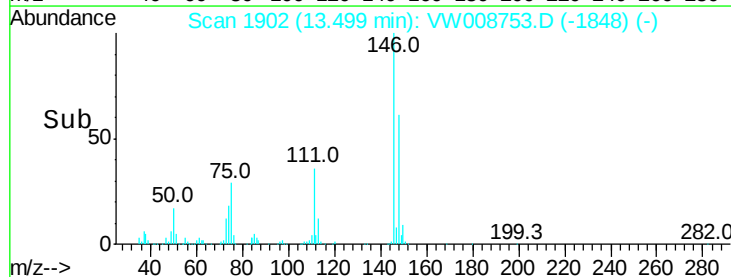
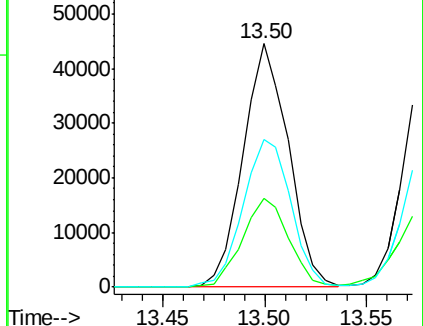
148 60.6 46.4 86.2

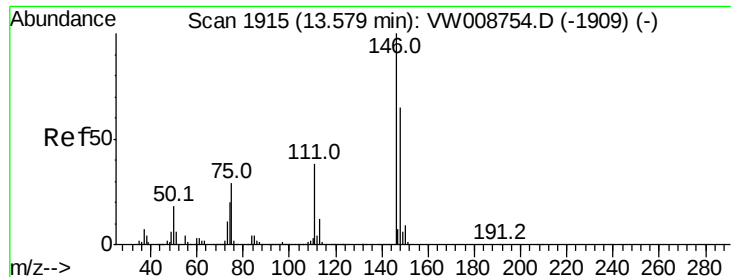


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 5.127 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampled :

VSTD00502

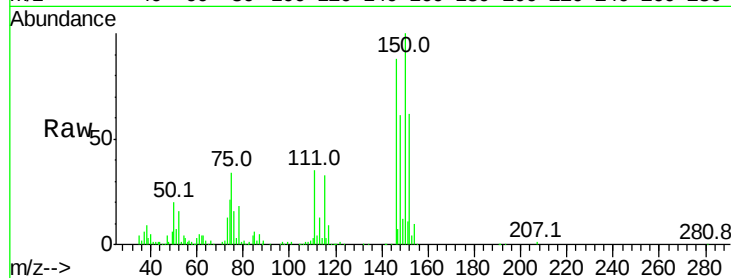
Tgt Ion:146 Resp: 69134

Ion Ratio Lower Upper

146 100

111 40.1 26.4 49.0

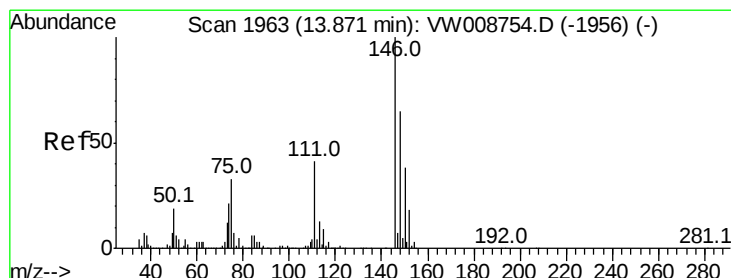
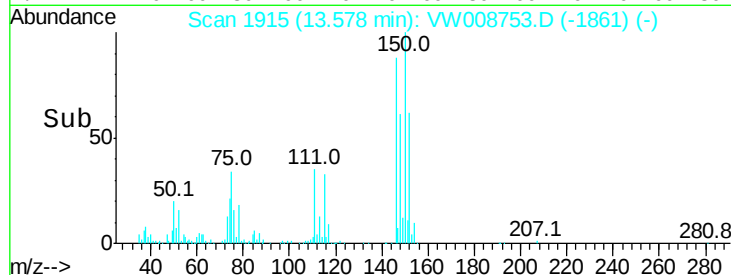
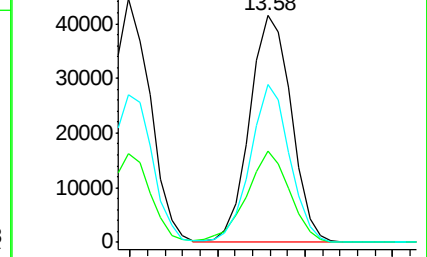
148 69.6 45.3 84.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 5.237 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

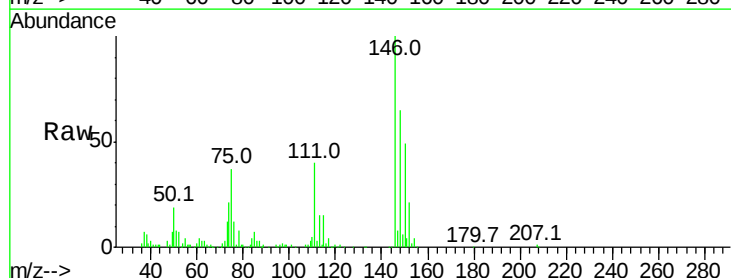
Tgt Ion:146 Resp: 64461

Ion Ratio Lower Upper

146 100

111 40.1 32.8 49.2

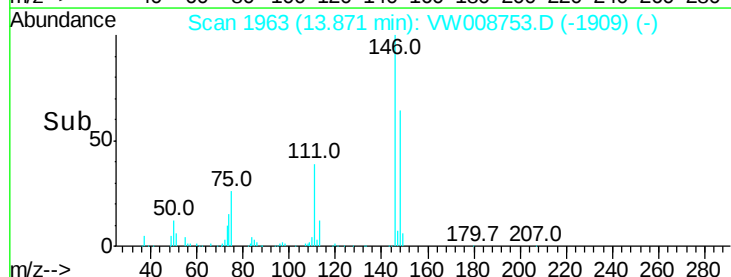
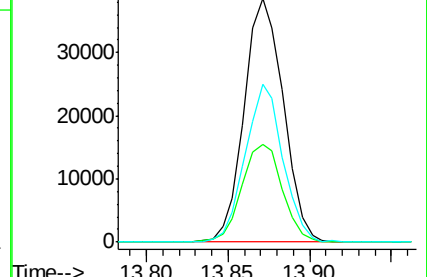
148 64.7 51.9 77.9

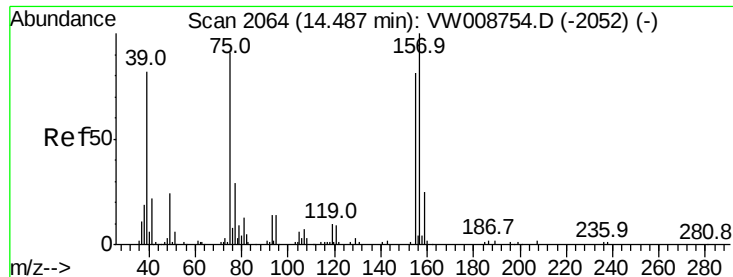


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#66

1,2-Dibromo-3-chloropropane

Concen: 4.817 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

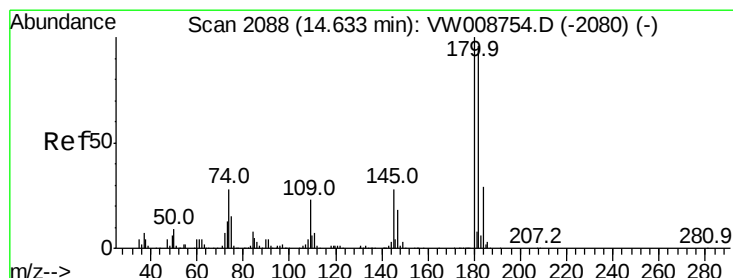
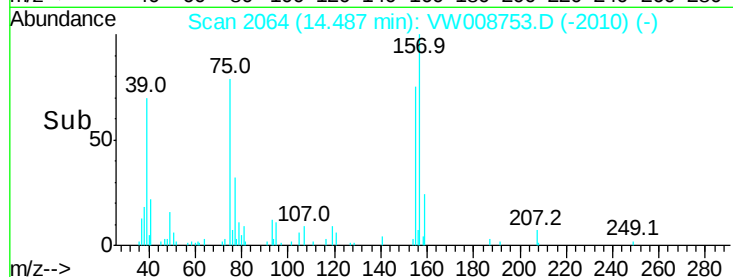
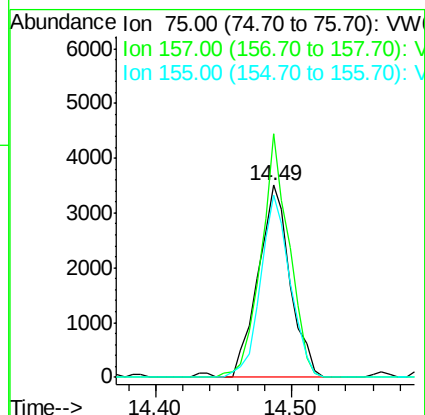
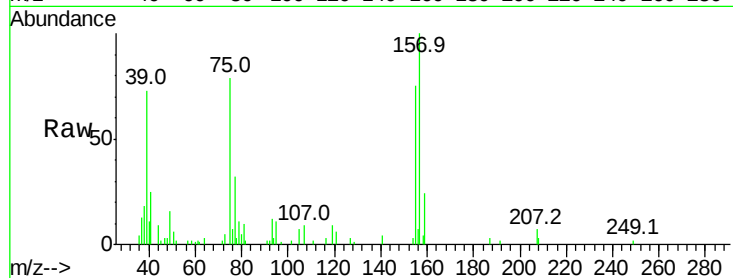
Tgt Ion: 75 Resp: 5845

Ion Ratio Lower Upper

75 100

157 126.9 88.3 132.5

155 94.8 71.1 106.7



#67

1,3,5-Trichlorobenzene

Concen: 5.371 ug/L

RT: 14.63 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Tgt Ion:180 Resp: 53333

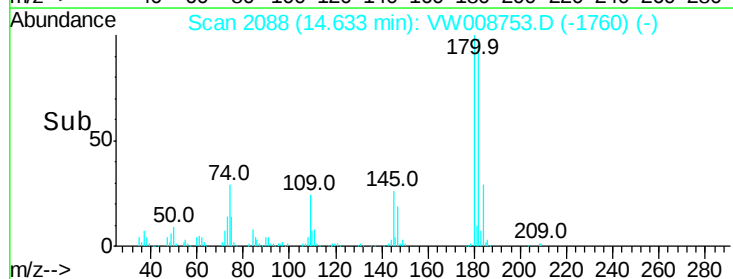
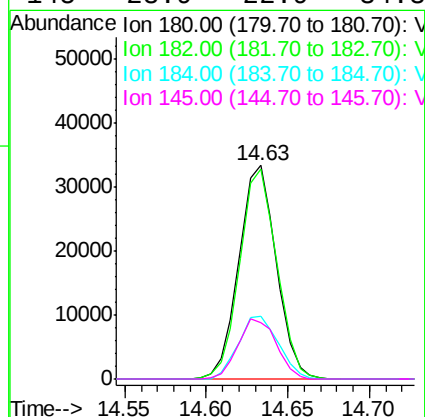
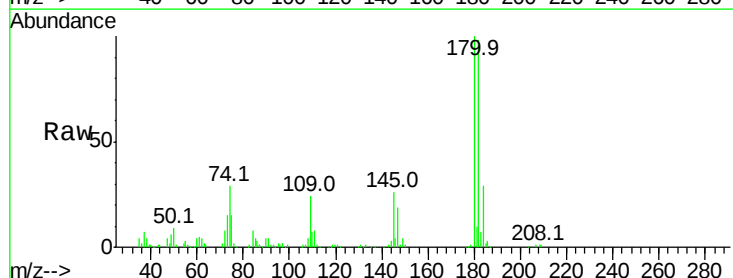
Ion Ratio Lower Upper

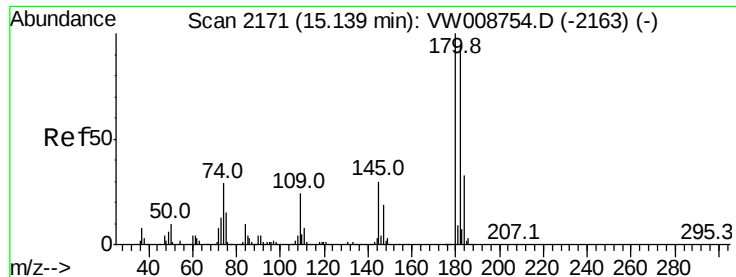
180 100

182 97.4 75.8 113.8

184 31.4 23.9 35.9

145 28.9 22.9 34.3





#68

1,2,4-trichlorobenzene

Concen: 5.360 ug/L

RT: 15.14 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

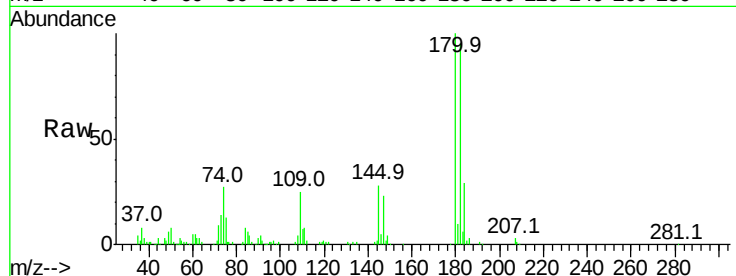
Tgt Ion:180 Resp: 45691

Ion Ratio Lower Upper

180 100

182 95.9 75.0 112.6

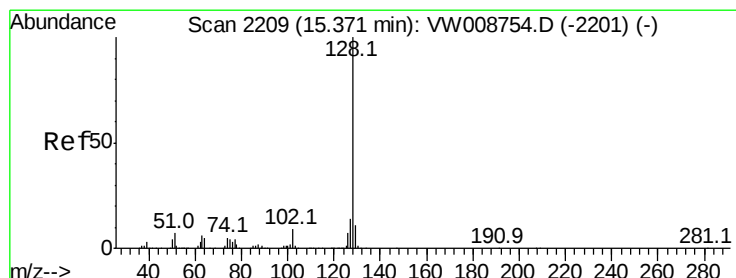
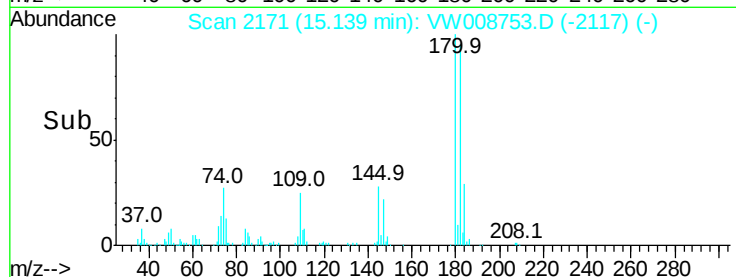
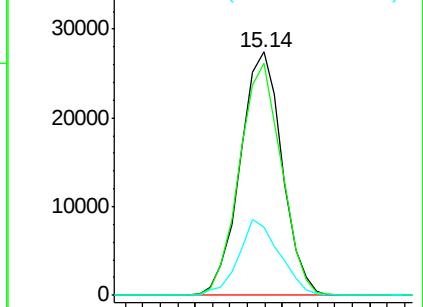
145 30.8 23.8 35.6



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



#69

Naphthalene

Concen: 4.880 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW008753.D

Acq: 20 Feb 2019 11:40

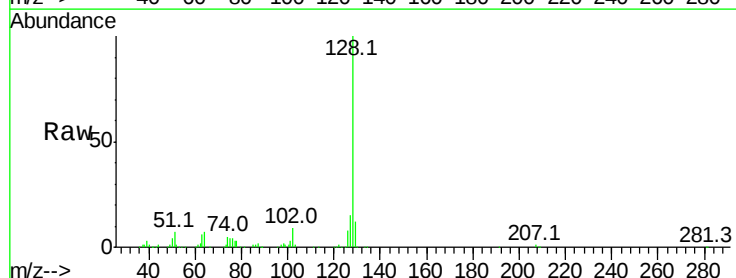
Tgt Ion:128 Resp: 94163

Ion Ratio Lower Upper

128 100

129 11.5 9.0 13.4

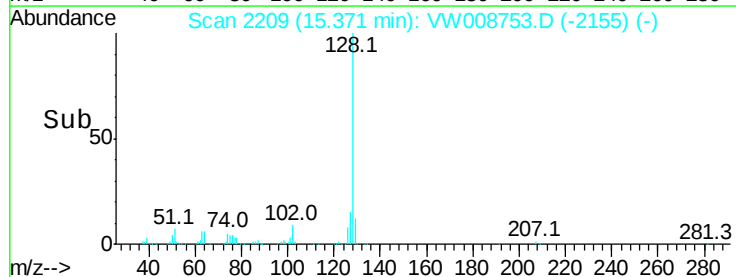
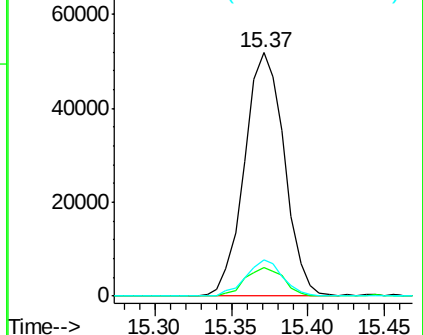
127 13.9 10.9 16.3

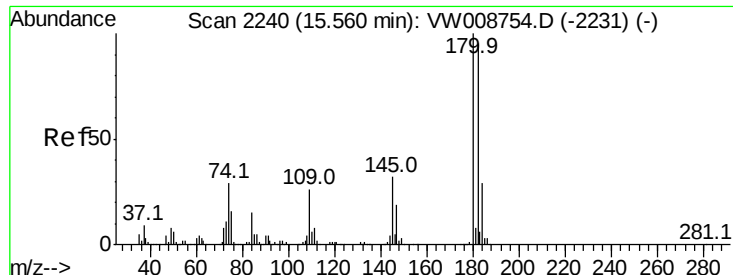


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 5.775 ug/L
 RT: 15.56 min Scan# 2240
 Delta R.T. -0.00 min
 Lab File: VW008753.D
 Acq: 20 Feb 2019 11:40

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00502

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.1	76.9	115.3
145	29.3	25.4	38.2

