

Data File : VW004224.D
Acq On : 26 Jul 2018 11:56
Operator : SY/AP
Sample : VSTD2.585
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.585

Quant Time: Jul 26 13:44:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM072618S.M
Quant Title : VOC Analysis
QLast Update : Thu Jul 26 13:44:32 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	403976	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	387066	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	184524	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	12721	3.18	ug/L	0.00
7) Chloroethane-d5	2.89	69	8158	2.83	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.00	63	26408	2.75	ug/L	-0.01
20) 2-Butanone-d5	7.08	46	9636	4.11	ug/L	0.00
24) Chloroform-d	7.65	84	27882	2.91	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	16450	2.85	ug/L	0.00
29) Benzene-d6	8.27	84	51223	2.85	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	18359	3.07	ug/L	0.00
37) Toluene-d8	10.32	98	47888	2.97	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	7492	2.85	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	6409	3.98	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.70	84	17356	2.65	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.86	152	19046	3.21	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.00	85	5637	2.179 ug/L	89
3) Chloromethane	2.21	50	9635	2.330 ug/L	91
5) Vinyl chloride	2.36	62	13750	2.208 ug/L	91
6) Bromomethane	2.78	94	6748	2.041 ug/L	96
9) Trichlorofluoromethane	3.25	101	6440	2.076 ug/L	95
12) 1,1-Dichloroethene	4.02	96	11328	2.107 ug/L	85
13) Acetone	4.12	43	11162	4.382 ug/L	99
14) Carbon disulfide	4.37	76	36280	2.085 ug/L	100
16) Methylene chloride	4.90	84	17570	2.267 ug/L	98
18) trans-1,2-Dichloroethene	5.42	96	11328	2.046 ug/L	97
19) 1,1-Dichloroethane	6.21	63	22349	2.122 ug/L	94
21) 2-Butanone	7.18	43	12118	3.834 ug/L	80
22) cis-1,2-Dichloroethene	7.17	96	12018	2.031 ug/L	95
23) Bromochloromethane	7.51	128	5980	2.149 ug/L	97
25) Chloroform	7.67	83	23056	2.144 ug/L	99
27) 1,2-Dichloroethane	8.40	62	17090	2.156 ug/L	97
31) 1,1,1-Trichloroethane	7.87	97	17965	2.041 ug/L	98
32) Carbon tetrachloride	8.07	117	17097	2.013 ug/L	97
34) Benzene	8.32	78	49107	2.070 ug/L	100
35) Trichloroethene	9.09	95	14120	2.224 ug/L	98
40) 1,2-Dichloropropane	9.37	63	13867	2.156 ug/L #	97
41) Bromodichloromethane	9.65	83	17367	2.193 ug/L	96
43) 4-Methyl-2-pentanone	10.21	43	19430	3.436 ug/L	96
44) Toluene	10.39	91	52518	2.112 ug/L	99
45) trans-1,3-Dichloropropene	10.61	75	17350	2.075 ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	10933	2.187 ug/L	98
47) Tetrachloroethene	10.87	164	11085	2.165 ug/L	96
49) 2-Hexanone	10.97	43	14962	3.418 ug/L	95
50) Dibromochloromethane	11.13	129	12036	2.149 ug/L	94
51) 1,2-Dibromoethane	11.24	107	10118	2.072 ug/L #	98

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Quant Title : VOC Analysis
QLast Update : Thu Jul 26 13:44:32 2018
Response via : Initial Calibration

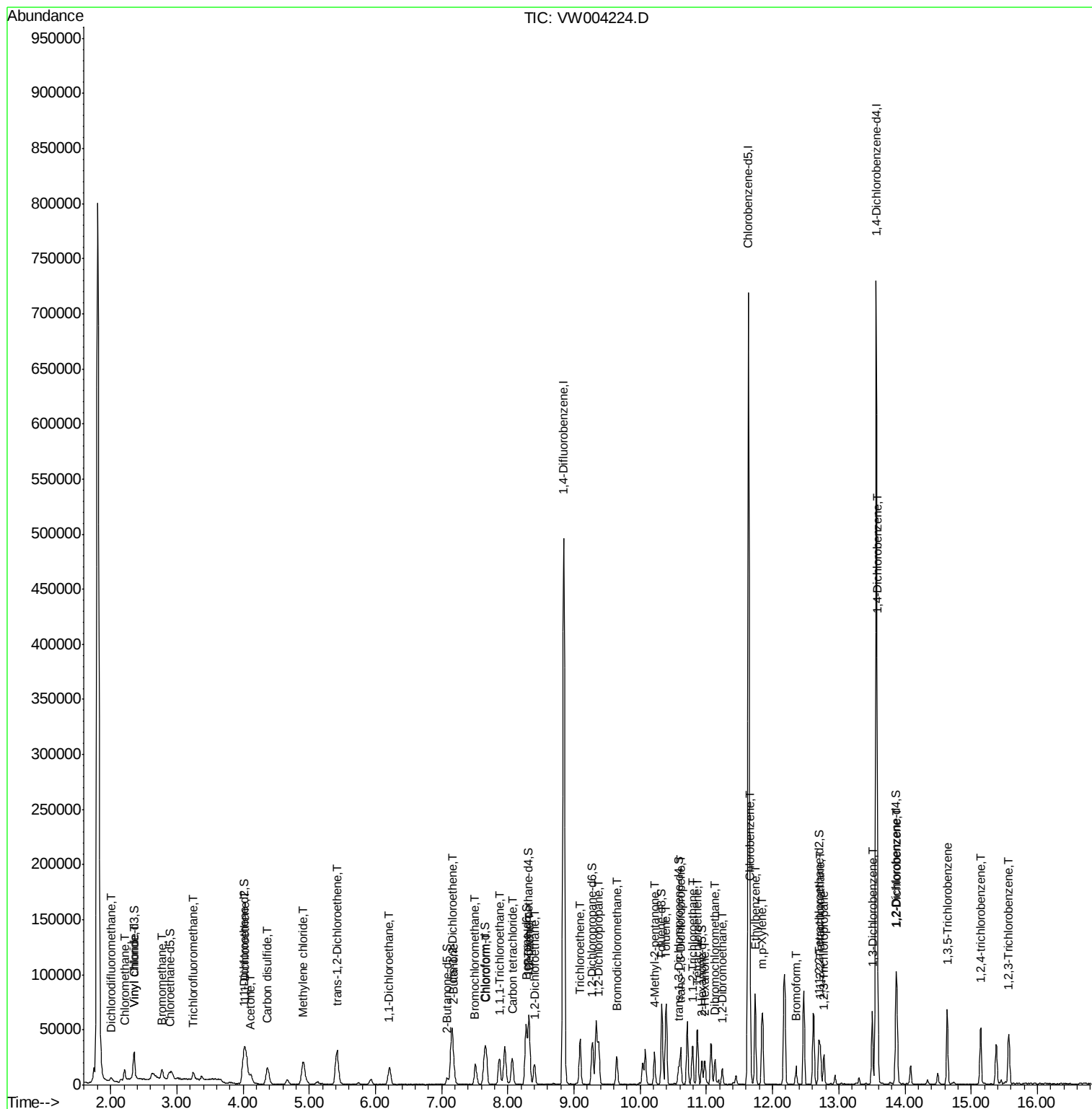
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Chlorobenzene	11.66	112	35856	2.249	ug/L	97
53) Ethylbenzene	11.74	91	55133	2.049	ug/L	98
54) m,p-Xylene	11.85	106	20357	2.052	ug/L	98
58) 1,1,2,2-Tetrachloroethane	12.72	83	14731	2.062	ug/L	97
59) 1,2,3-Trichloropropane	12.77	75	11208	2.026	ug/L	95
62) Bromoform	12.35	173	7301	2.097	ug/L #	96
63) 1,3-Dichlorobenzene	13.51	146	26131	2.299	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	28457	2.335	ug/L	96
65) 1,2-Dichlorobenzene	13.88	146	25266	2.281	ug/L	95
67) 1,3,5-Trichlorobenzene	14.64	180	20980	2.334	ug/L	97
68) 1,2,4-trichlorobenzene	15.15	180	15936	2.211	ug/L	98
70) 1,2,3-Trichlorobenzene	15.57	180	15122	2.205	ug/L	97

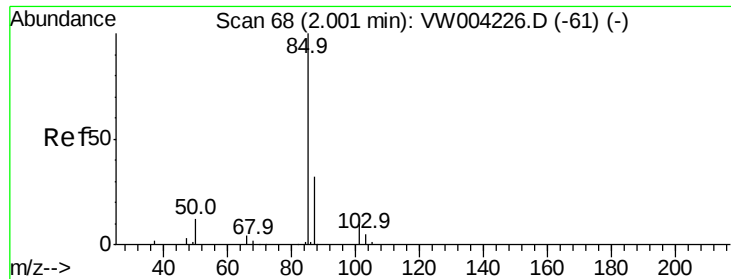
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.179 ug/L

RT: 2.00 min Scan# 68

Delta R.T. 0.00 min

Lab File: VW004224.D

Acq: 26 Jul 2018 11:56

Instrument :

MSVOA_W

ClientSampleId :

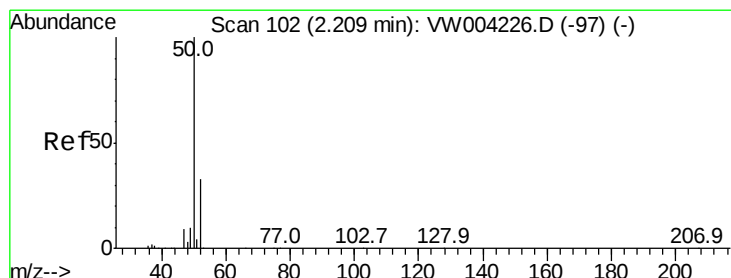
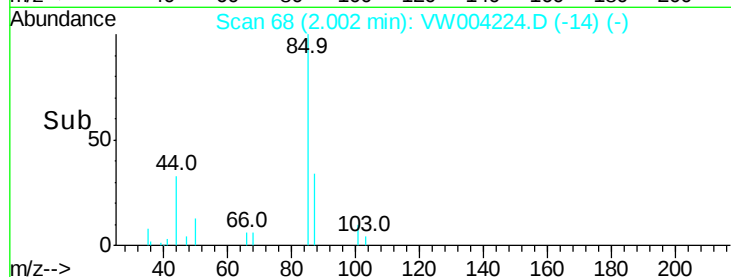
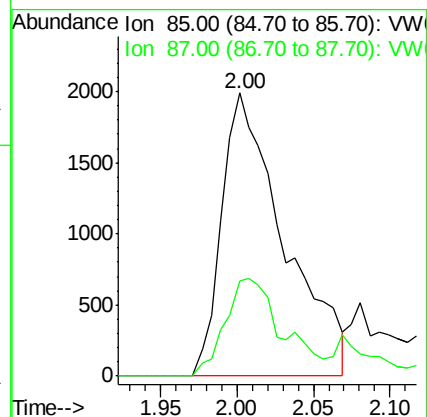
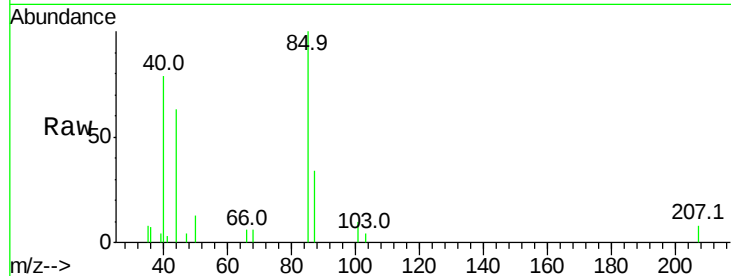
VSTD2.585

Tgt Ion: 85 Resp: 5637

Ion Ratio Lower Upper

85 100

87 26.2 22.7 42.3



#3

Chloromethane

Concen: 2.330 ug/L

RT: 2.21 min Scan# 102

Delta R.T. 0.00 min

Lab File: VW004224.D

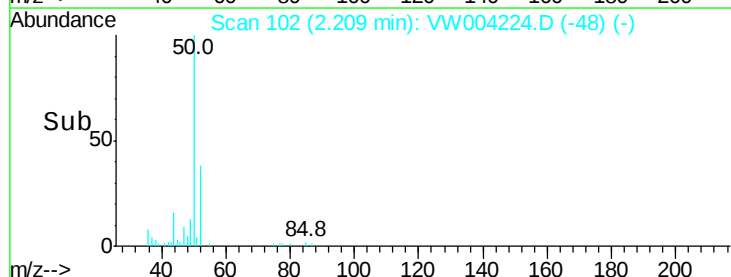
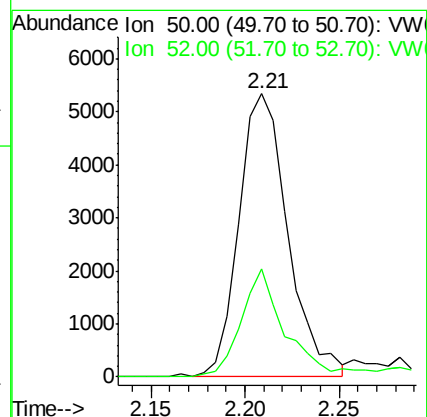
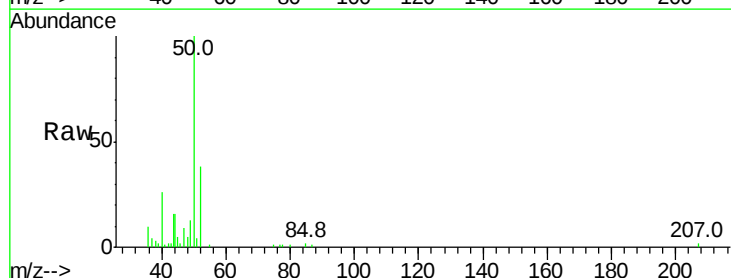
Acq: 26 Jul 2018 11:56

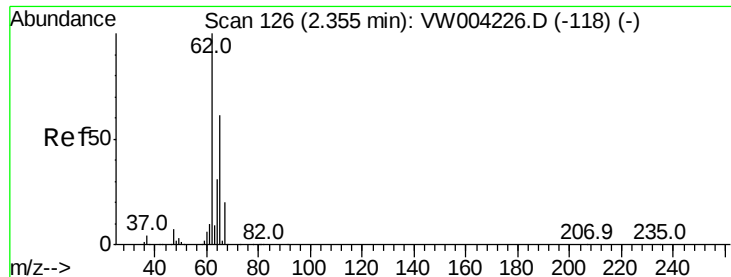
Tgt Ion: 50 Resp: 9635

Ion Ratio Lower Upper

50 100

52 38.4 23.2 43.2





#5

Vinyl chloride

Concen: 2.208 ug/L

RT: 2.36 min Scan# 126

Delta R.T. 0.00 min

Lab File: VW004224.D

Acq: 26 Jul 2018 11:56

Instrument :

MSVOA_W

ClientSampleId :

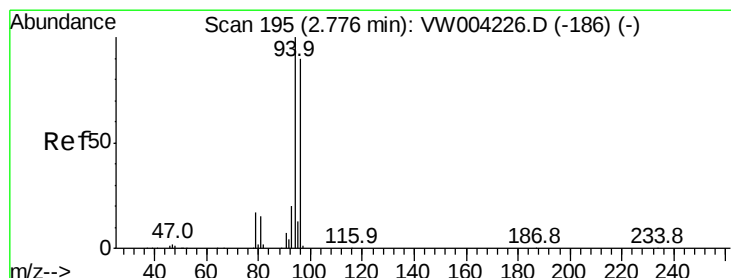
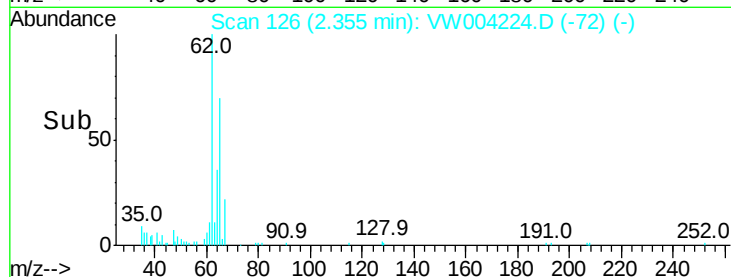
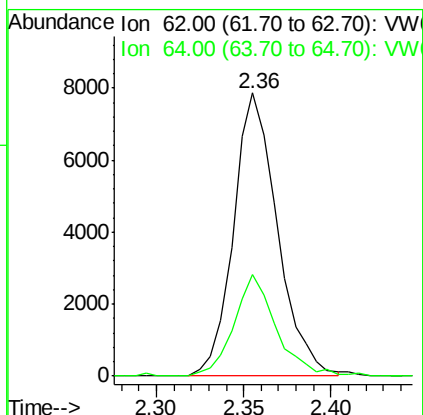
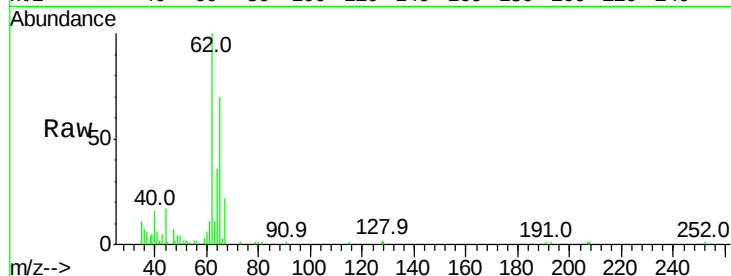
VSTD2.585

Tgt Ion: 62 Resp: 13750

Ion Ratio Lower Upper

62 100

64 35.7 21.4 39.8



#6

Bromomethane

Concen: 2.041 ug/L

RT: 2.78 min Scan# 195

Delta R.T. 0.00 min

Lab File: VW004224.D

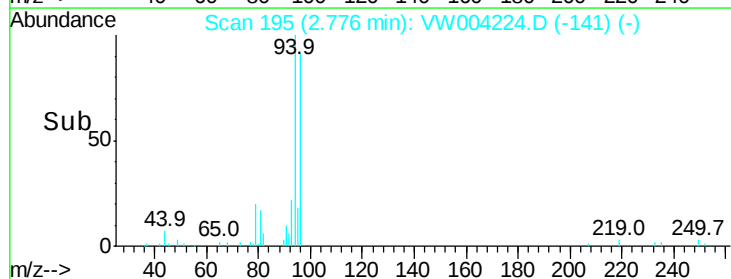
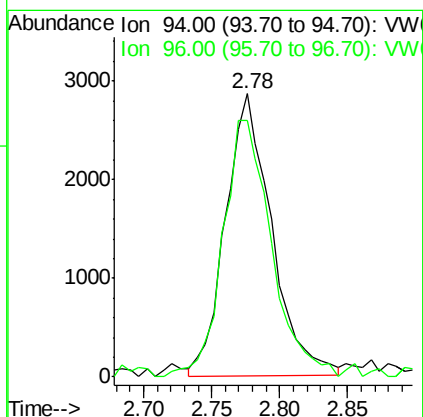
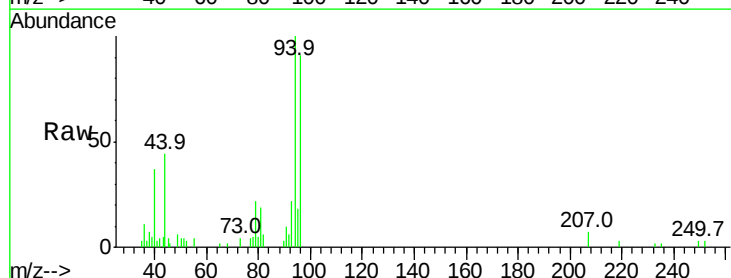
Acq: 26 Jul 2018 11:56

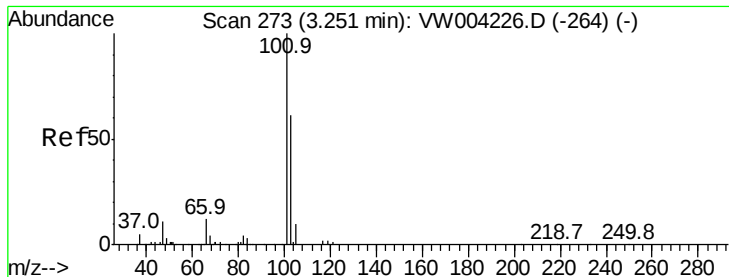
Tgt Ion: 94 Resp: 6748

Ion Ratio Lower Upper

94 100

96 96.3 9.2 175.6



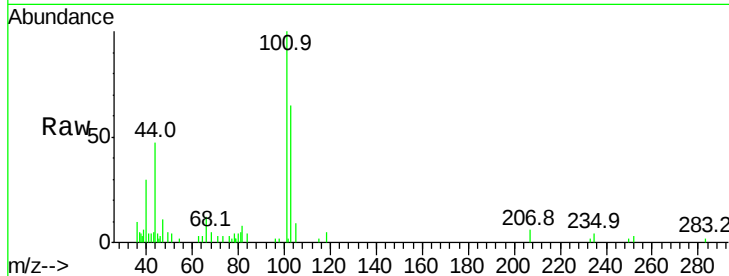


#9

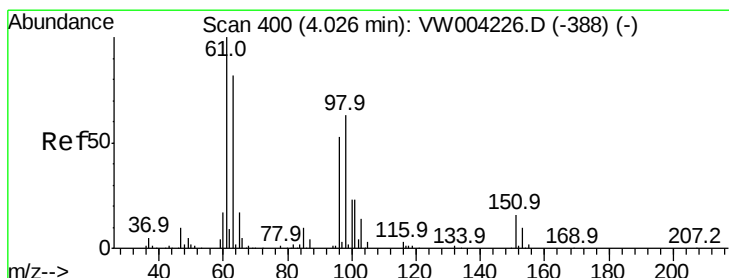
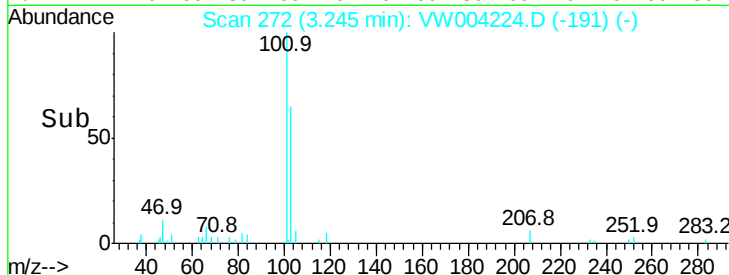
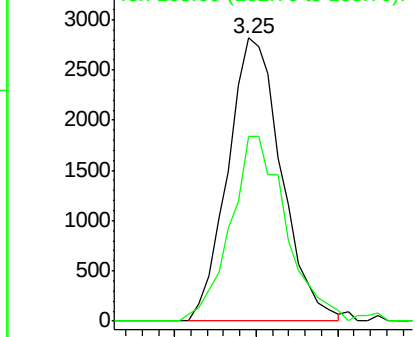
Trichlorofluoromethane
 Concen: 2.076 ug/L
 RT: 3.25 min Scan# 272
 Delta R.T. -0.01 min
 Lab File: VW004224.D
 Acq: 26 Jul 2018 11:56

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.585

Tgt Ion:101 Resp: 6440
 Ion Ratio Lower Upper
 101 100
 103 67.3 44.6 82.8



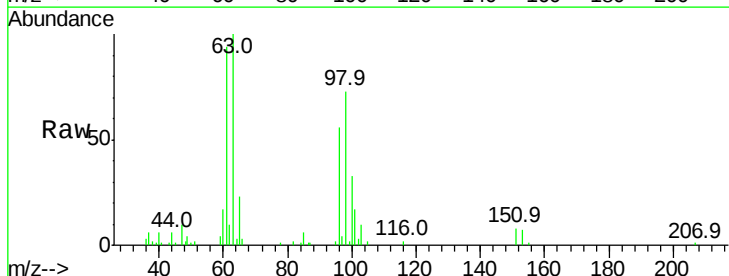
Abundance Ion 101.00 (100.70 to 101.70): V
 Ion 103.00 (102.70 to 103.70): V



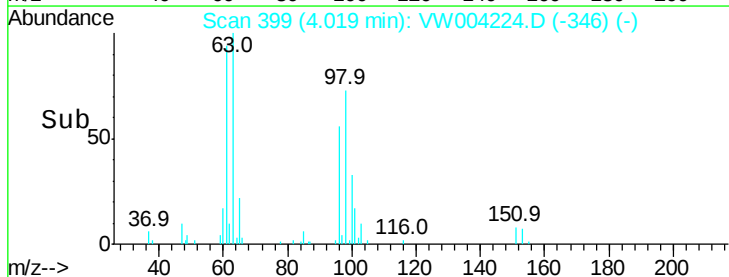
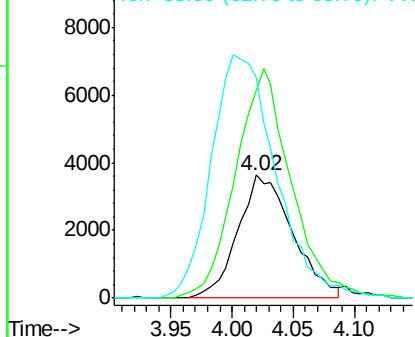
#12

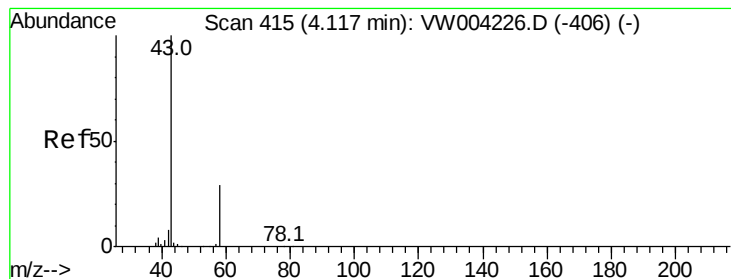
1,1-Dichloroethene
 Concen: 2.107 ug/L
 RT: 4.02 min Scan# 399
 Delta R.T. -0.01 min
 Lab File: VW004224.D
 Acq: 26 Jul 2018 11:56

Tgt Ion: 96 Resp: 11328
 Ion Ratio Lower Upper
 96 100
 61 169.5 133.1 247.3
 63 179.9 111.7 207.5



Abundance Ion 96.00 (95.70 to 96.70): VW
 Ion 61.00 (60.70 to 61.70): VW
 Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 4.382 ug/L

RT: 4.12 min Scan# 415

Delta R.T. 0.00 min

Lab File: VW004224.D

Acq: 26 Jul 2018 11:56

Instrument :

MSVOA_W

ClientSampleId :

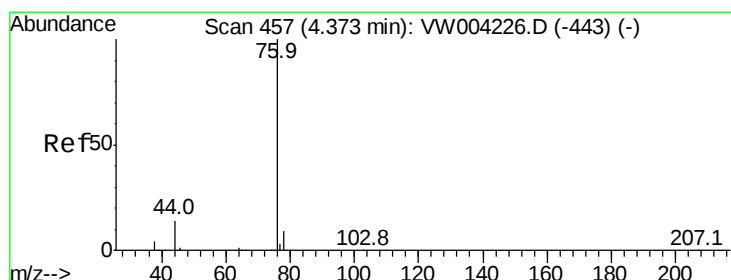
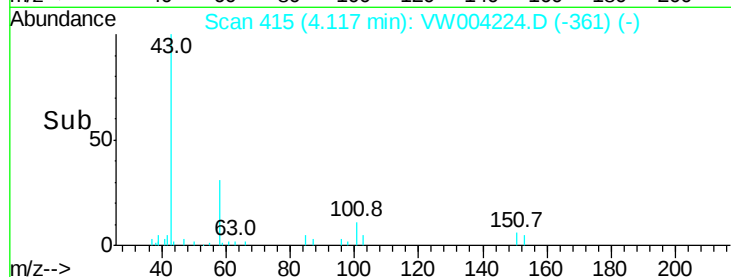
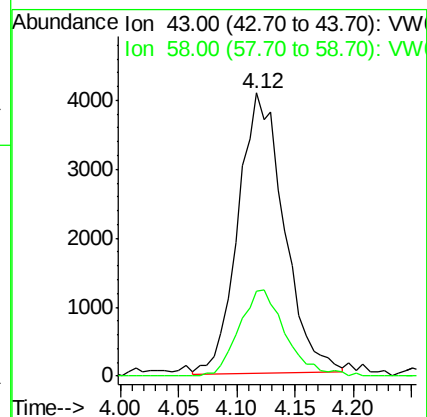
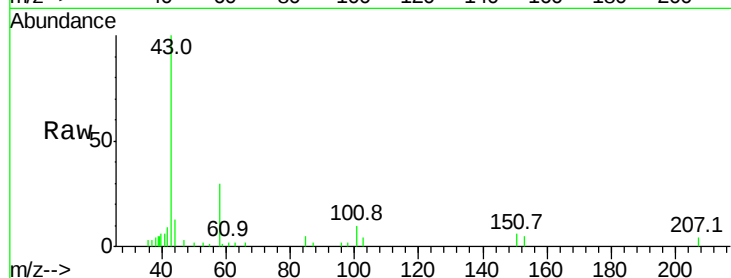
VSTD2.585

Tgt Ion: 43 Resp: 11162

Ion Ratio Lower Upper

43 100

58 30.7 0.0 59.8



#14

Carbon disulfide

Concen: 2.085 ug/L

RT: 4.37 min Scan# 456

Delta R.T. -0.01 min

Lab File: VW004224.D

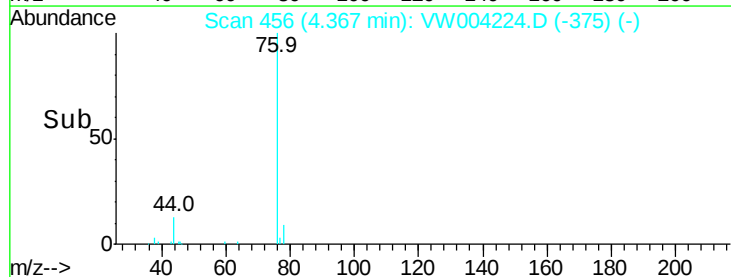
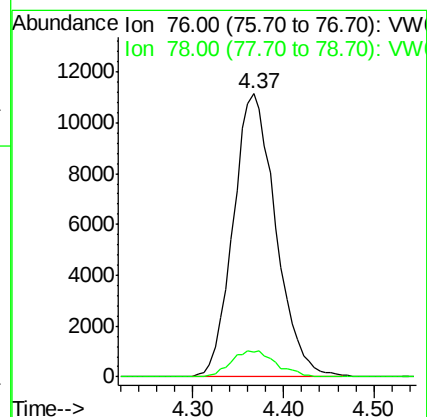
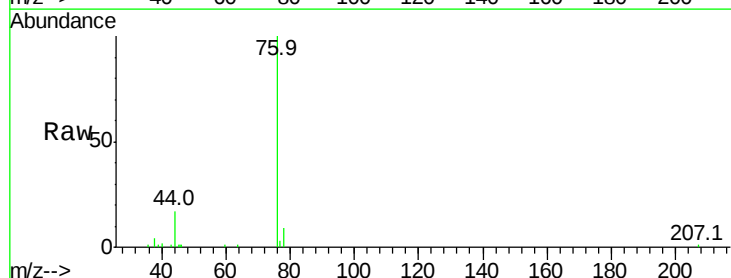
Acq: 26 Jul 2018 11:56

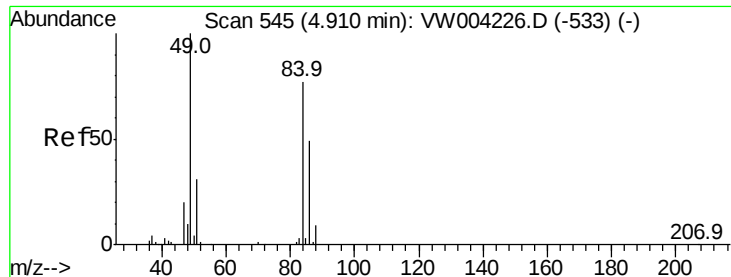
Tgt Ion: 76 Resp: 36280

Ion Ratio Lower Upper

76 100

78 8.9 7.0 10.6

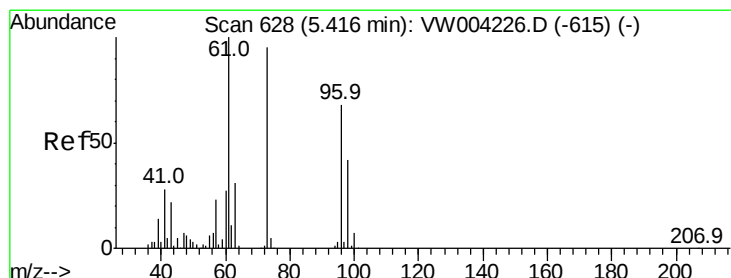
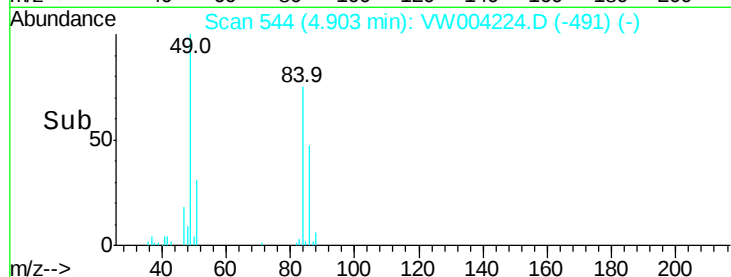
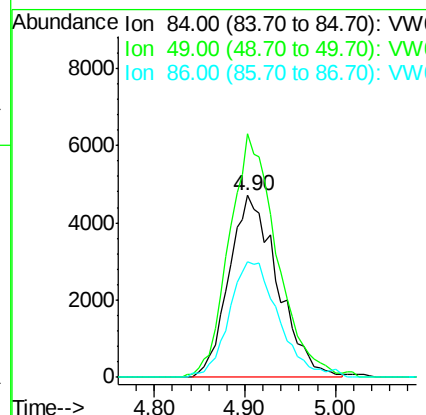
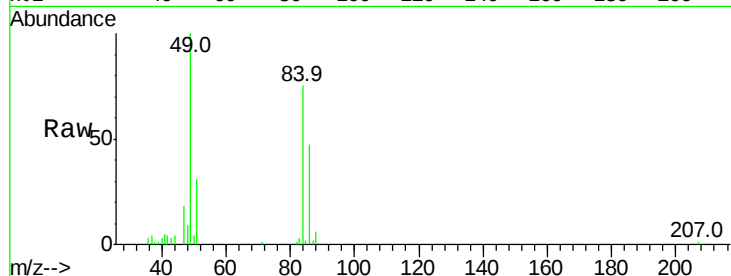




#16
Methylene chloride
Concen: 2.267 ug/L
RT: 4.90 min Scan# 544
Delta R.T. -0.01 min
Lab File: VW004224.D
Acq: 26 Jul 2018 11:56

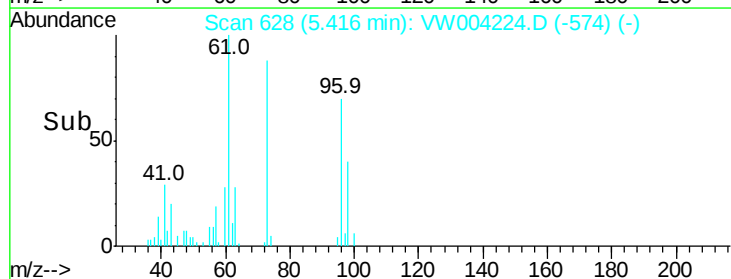
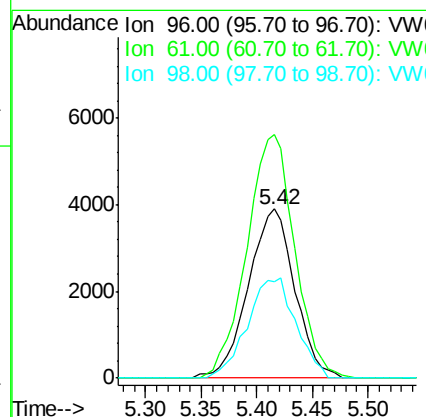
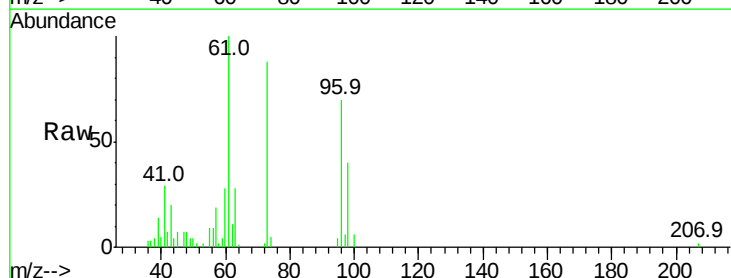
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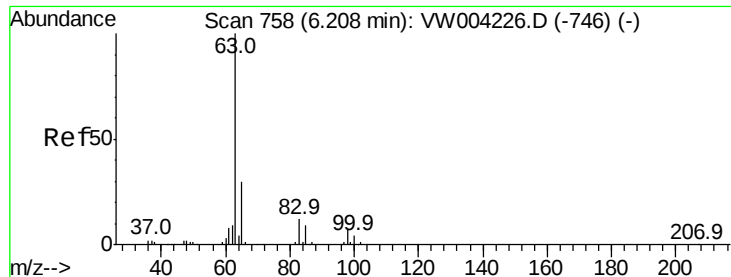
Tgt Ion: 84 Resp: 17570
Ion Ratio Lower Upper
84 100
49 133.9 90.9 168.7
86 63.5 44.4 82.5



#18
trans-1,2-Dichloroethene
Concen: 2.046 ug/L
RT: 5.42 min Scan# 628
Delta R.T. 0.00 min
Lab File: VW004224.D
Acq: 26 Jul 2018 11:56

Tgt Ion: 96 Resp: 11328
Ion Ratio Lower Upper
96 100
61 143.8 102.4 190.2
98 57.0 43.1 80.1

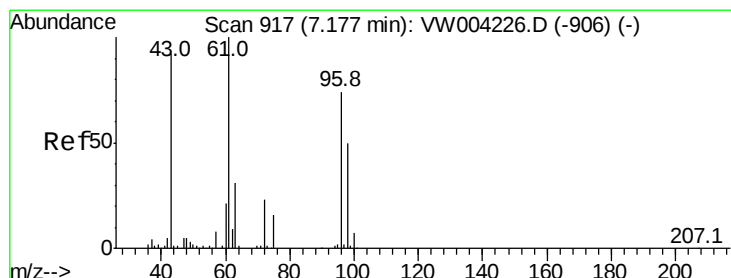
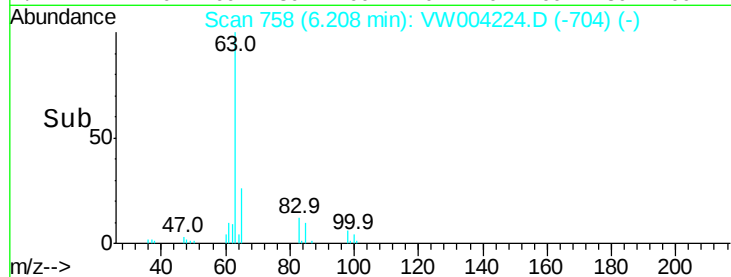
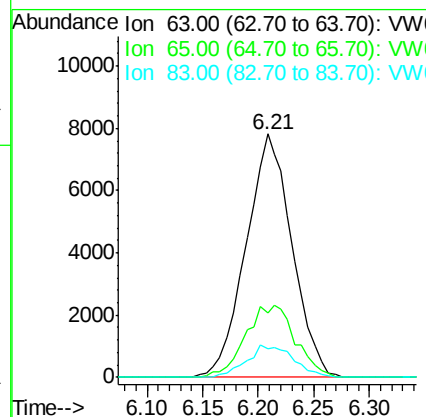
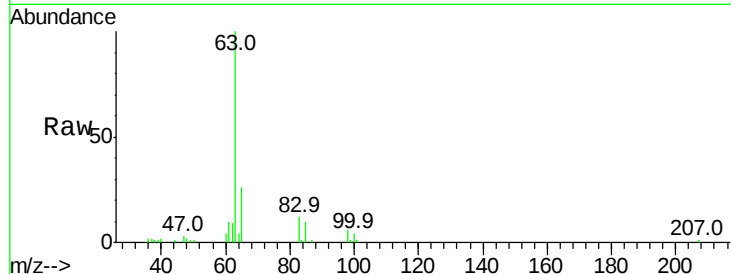




#19
 1,1-Dichloroethane
 Concen: 2.122 ug/L
 RT: 6.21 min Scan# 758
 Delta R.T. 0.00 min
 Lab File: VW004224.D
 Acq: 26 Jul 2018 11:56

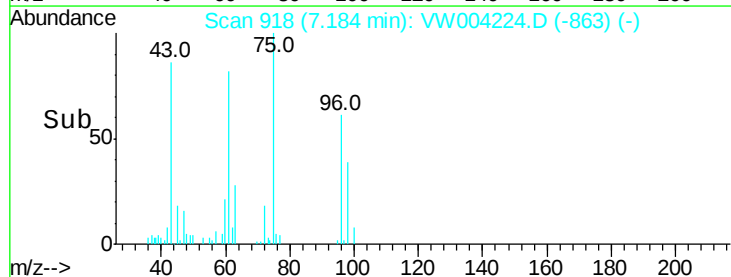
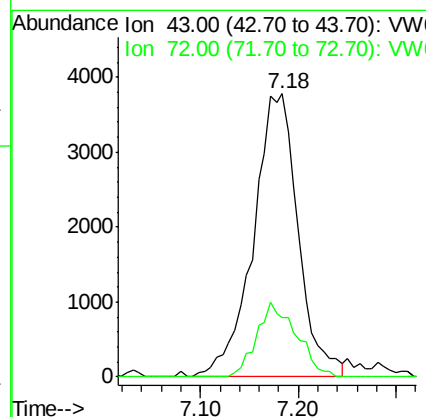
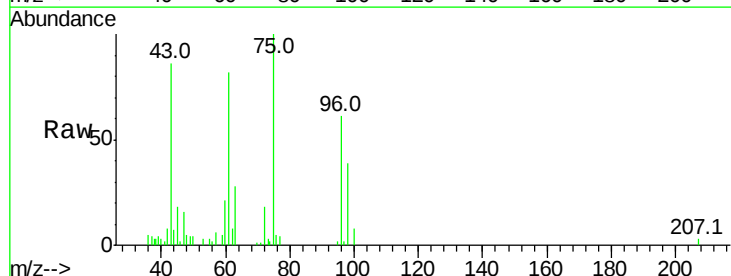
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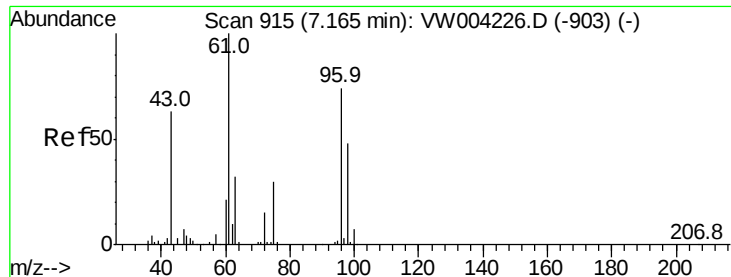
Tgt Ion: 63 Resp: 22349
 Ion Ratio Lower Upper
 63 100
 65 26.4 21.3 39.6
 83 11.5 8.6 16.0



#21
 2-Butanone
 Concen: 3.834 ug/L
 RT: 7.18 min Scan# 918
 Delta R.T. 0.01 min
 Lab File: VW004224.D
 Acq: 26 Jul 2018 11:56

Tgt Ion: 43 Resp: 12118
 Ion Ratio Lower Upper
 43 100
 72 14.7 12.3 36.9



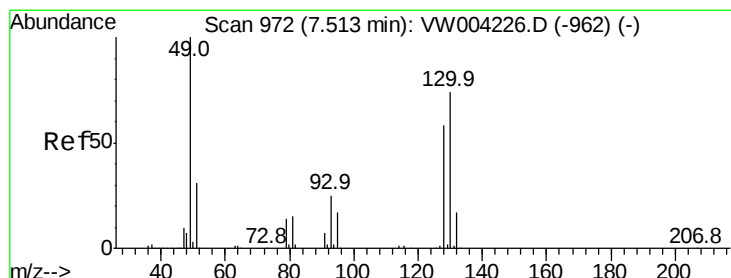
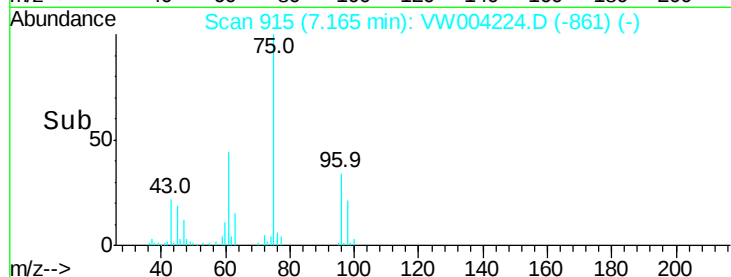
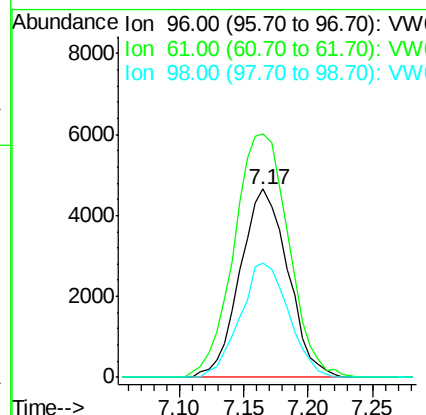
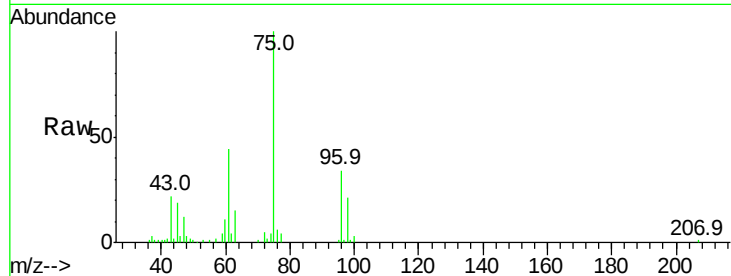


#22

cis-1,2-Dichloroethene
Concen: 2.031 ug/L
RT: 7.17 min Scan# 915
Delta R.T. 0.00 min
Lab File: VW004224.D
Acq: 26 Jul 2018 11:56

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.585

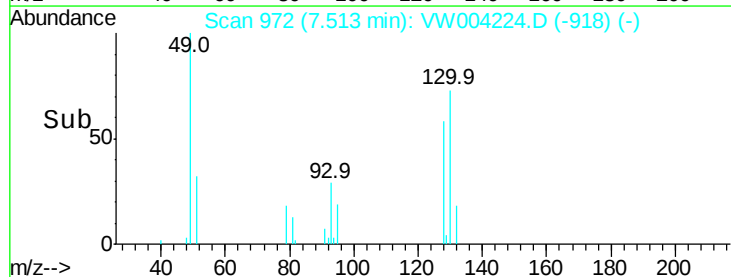
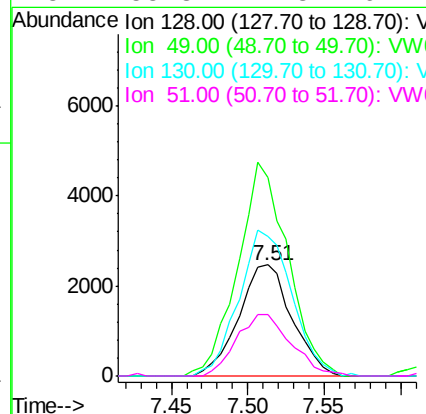
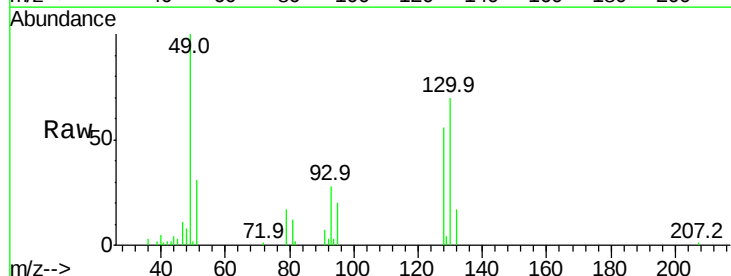
Tgt Ion: 96 Resp: 12018
Ion Ratio Lower Upper
96 100
61 129.4 95.1 176.7
98 60.8 45.2 84.0

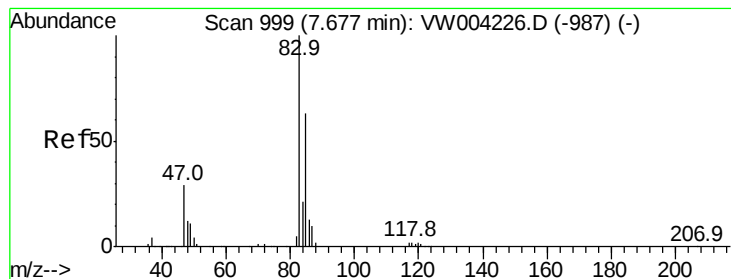


#23

Bromochloromethane
Concen: 2.149 ug/L
RT: 7.51 min Scan# 972
Delta R.T. 0.00 min
Lab File: VW004224.D
Acq: 26 Jul 2018 11:56

Tgt Ion: 128 Resp: 5980
Ion Ratio Lower Upper
128 100
49 179.6 120.5 223.7
130 125.6 88.5 164.4
51 55.3 42.8 64.2





#25

Chloroform

Concen: 2.144 ug/L

RT: 7.67 min Scan# 998

Delta R.T. -0.01 min

Lab File: VW004224.D

Acq: 26 Jul 2018 11:56

Instrument :

MSVOA_W

ClientSampleId :

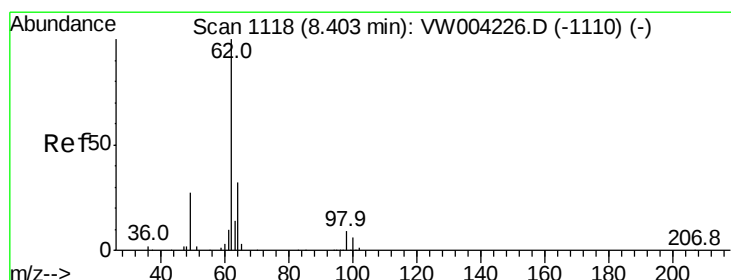
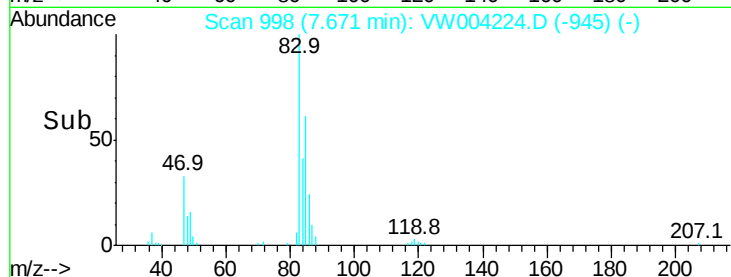
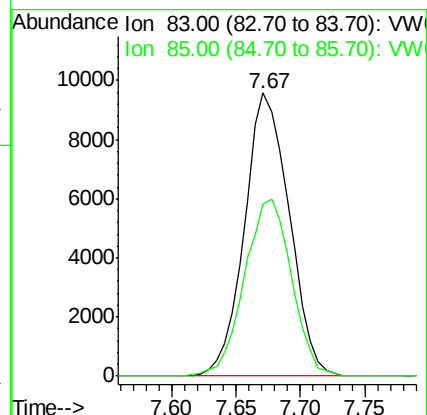
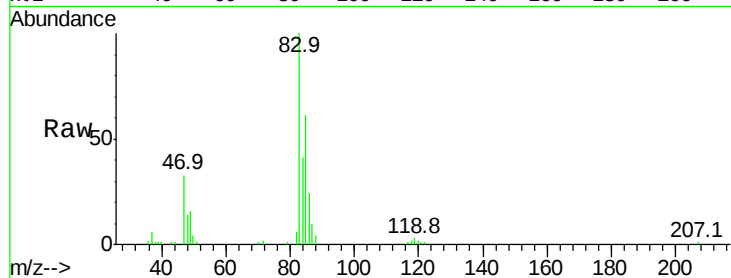
VSTD2.585

Tgt Ion: 83 Resp: 23056

Ion Ratio Lower Upper

83 100

85 65.7 45.5 84.5



#27

1,2-Dichloroethane

Concen: 2.156 ug/L

RT: 8.40 min Scan# 1118

Delta R.T. 0.00 min

Lab File: VW004224.D

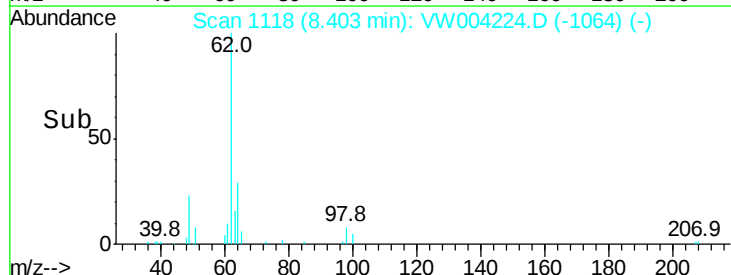
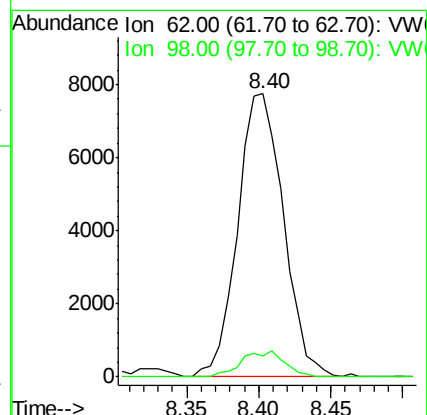
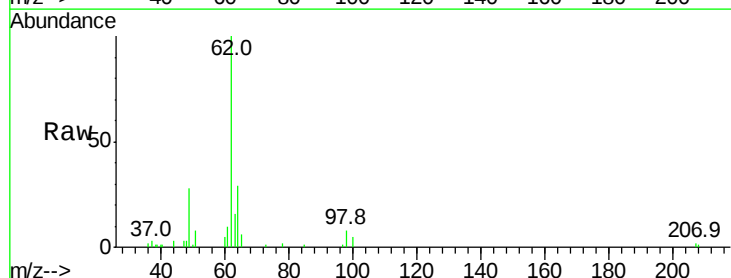
Acq: 26 Jul 2018 11:56

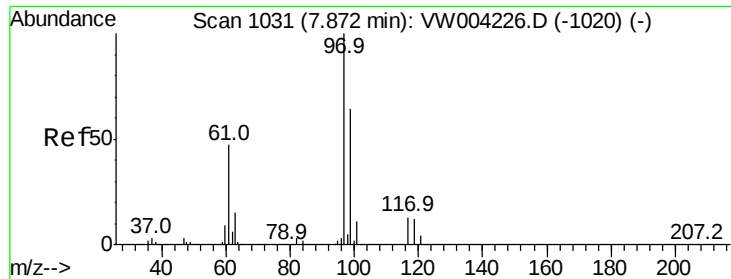
Tgt Ion: 62 Resp: 17090

Ion Ratio Lower Upper

62 100

98 7.6 7.0 10.4

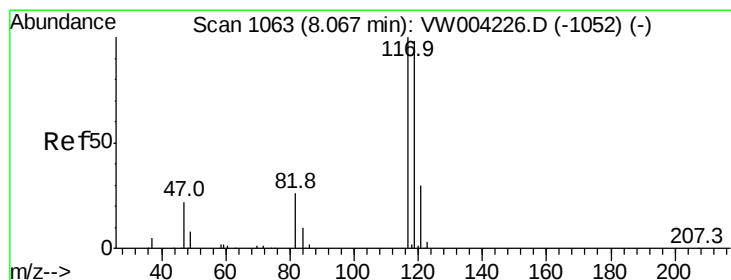
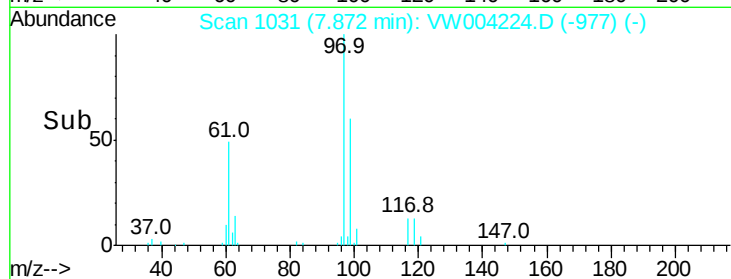
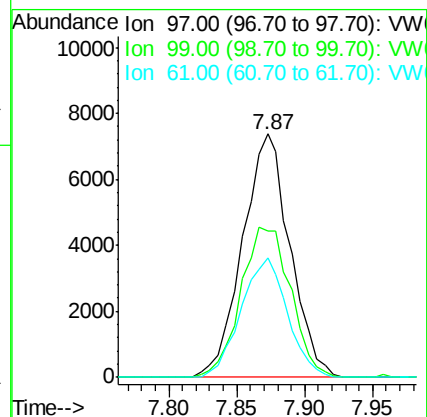
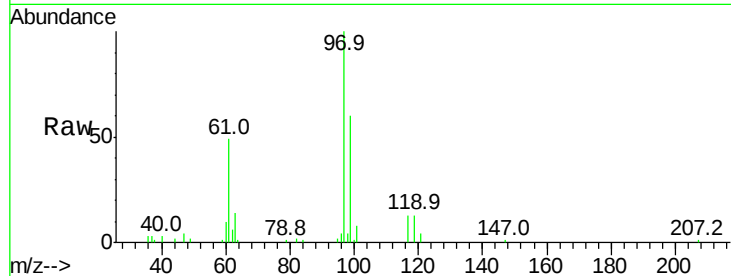




#31
 1,1,1-Trichloroethane
 Concen: 2.041 ug/L
 RT: 7.87 min Scan# 1031
 Delta R.T. 0.00 min
 Lab File: VW004224.D
 Acq: 26 Jul 2018 11:56

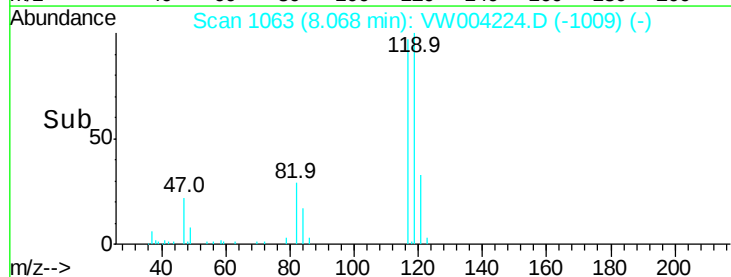
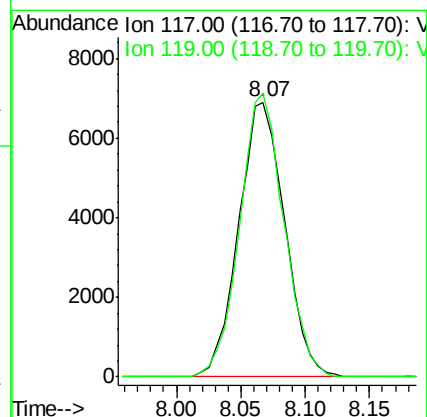
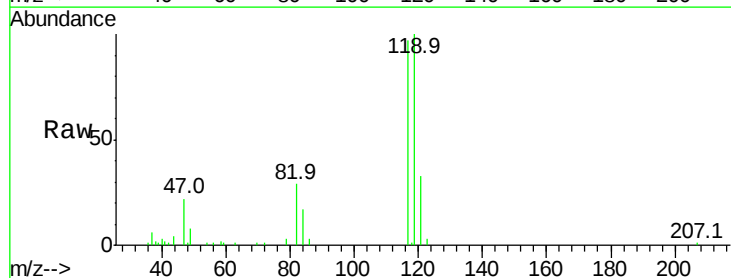
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.585

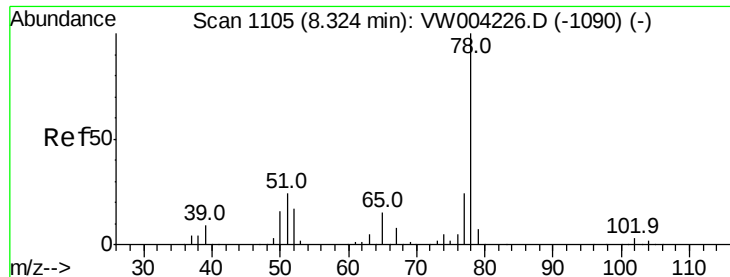
Tgt Ion: 97 Resp: 17965
 Ion Ratio Lower Upper
 97 100
 99 64.9 51.3 76.9
 61 48.0 37.1 55.7



#32
 Carbon tetrachloride
 Concen: 2.013 ug/L
 RT: 8.07 min Scan# 1063
 Delta R.T. 0.00 min
 Lab File: VW004224.D
 Acq: 26 Jul 2018 11:56

Tgt Ion: 117 Resp: 17097
 Ion Ratio Lower Upper
 117 100
 119 99.0 76.9 115.3





#34

Benzene

Concen: 2.070 ug/L

RT: 8.32 min Scan# 1105

Delta R.T. 0.00 min

Lab File: VW004224.D

Acq: 26 Jul 2018 11:56

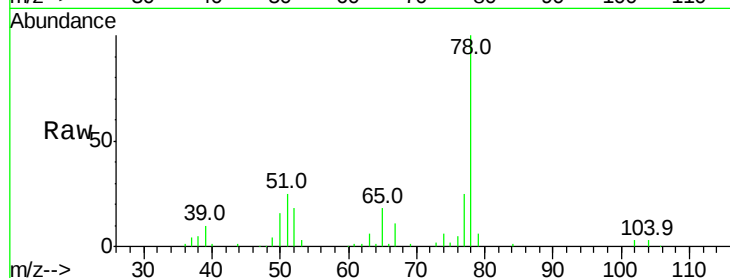
Instrument :

MSVOA_W

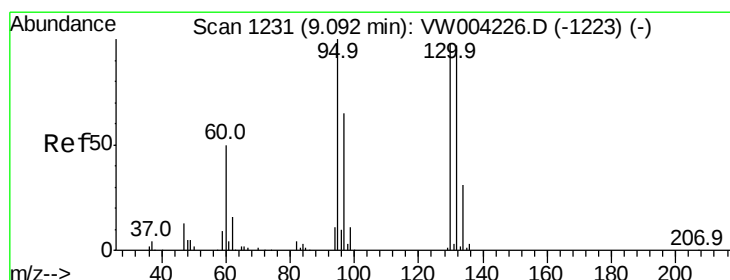
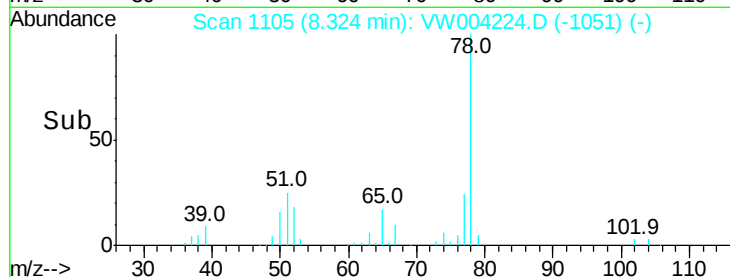
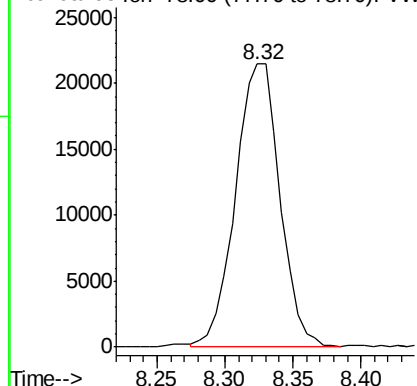
ClientSampleId :

VSTD2.585

Tgt Ion: 78 Resp: 49107



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 2.224 ug/L

RT: 9.09 min Scan# 1231

Delta R.T. 0.00 min

Lab File: VW004224.D

Acq: 26 Jul 2018 11:56

Tgt Ion: 95 Resp: 14120

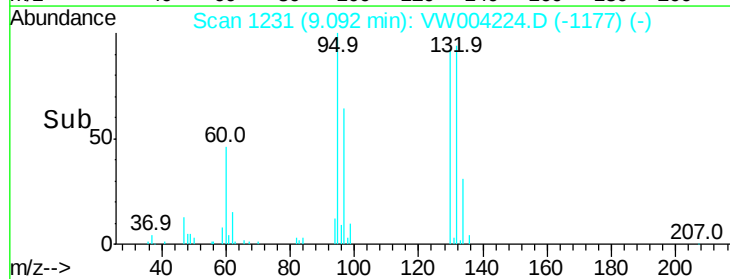
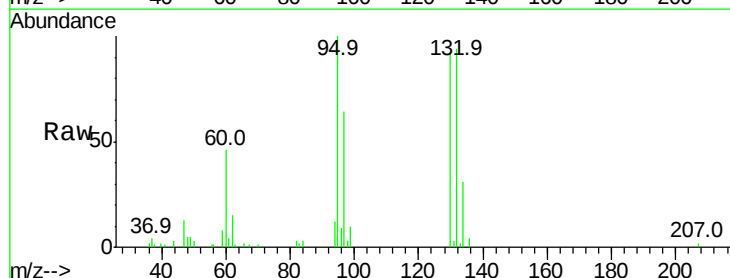
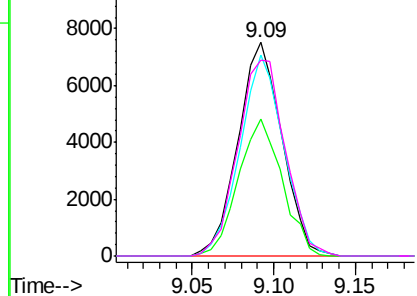
Ion	Ratio	Lower	Upper
95	100		
97	63.8	44.9	83.5
132	93.8	67.4	125.2
130	99.2	70.2	130.4

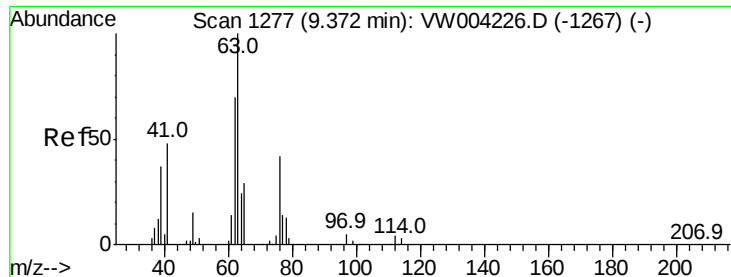
Abundance Ion 95.00 (94.70 to 95.70): VW

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





#40

1,2-Dichloropropane

Concen: 2.156 ug/L

RT: 9.37 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VW004224.D

Acq: 26 Jul 2018 11:56

Instrument :

MSVOA_W

ClientSampleId :

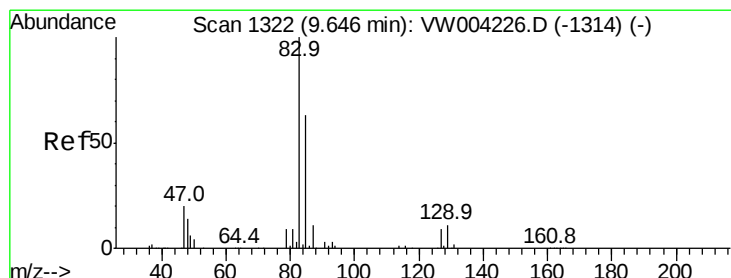
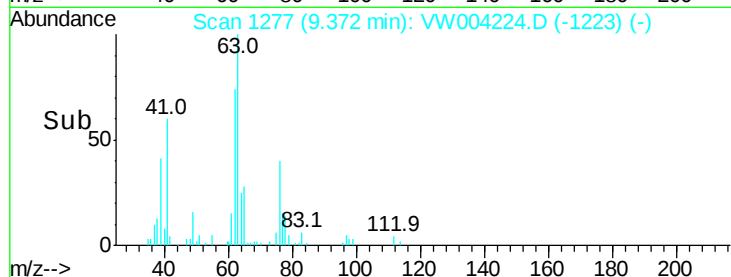
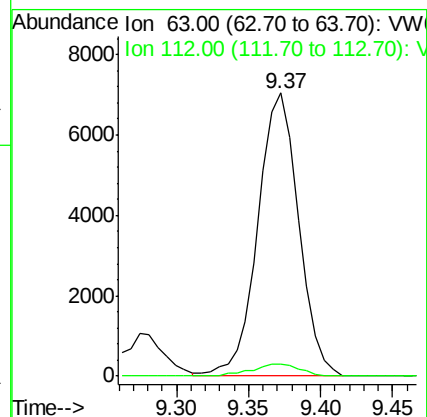
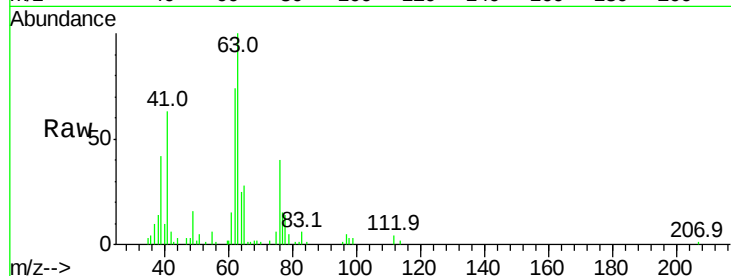
VSTD2.585

Tgt Ion: 63 Resp: 13867

Ion Ratio Lower Upper

63 100

112 5.0 3.2 4.8#



#41

Bromodichloromethane

Concen: 2.193 ug/L

RT: 9.65 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VW004224.D

Acq: 26 Jul 2018 11:56

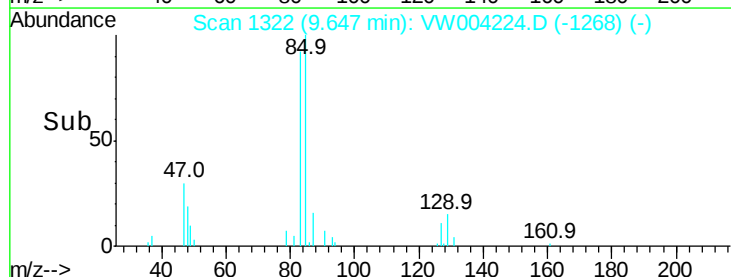
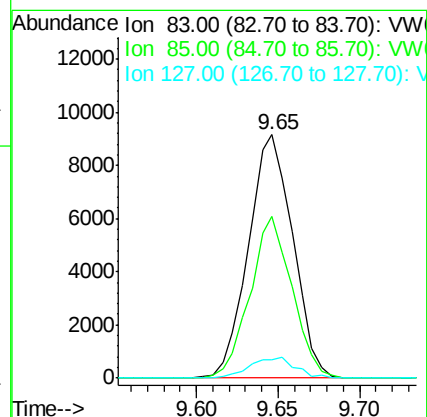
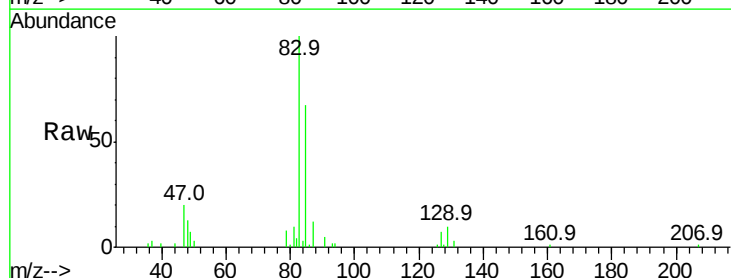
Tgt Ion: 83 Resp: 17367

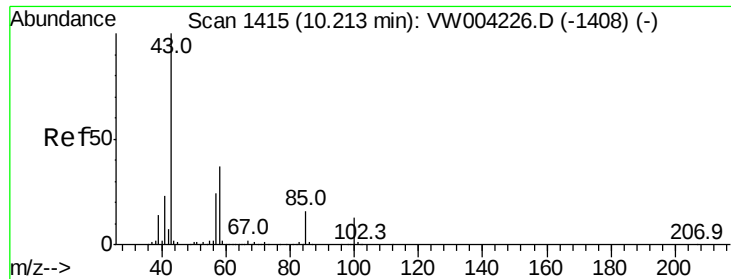
Ion Ratio Lower Upper

83 100

85 66.6 44.0 81.8

127 8.1 7.2 10.8





#43

4-Methyl-2-pentanone

Concen: 3.436 ug/L

RT: 10.21 min Scan# 1415

Delta R.T. 0.00 min

Lab File: VW004224.D

Acq: 26 Jul 2018 11:56

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.585

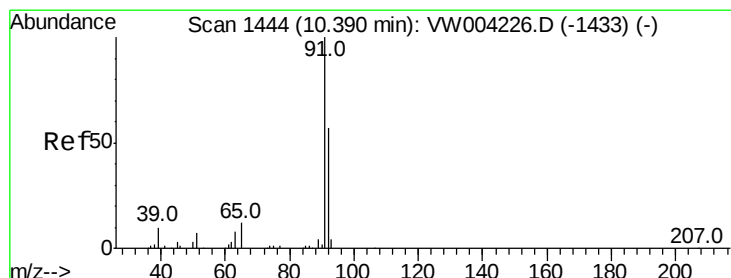
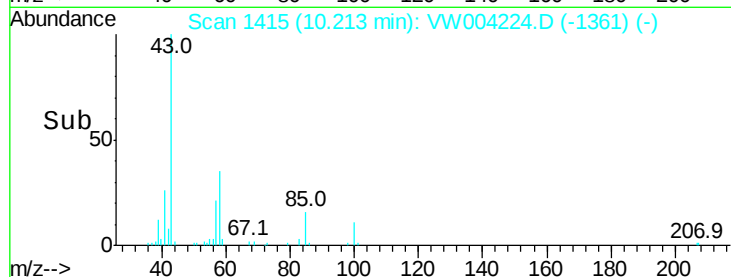
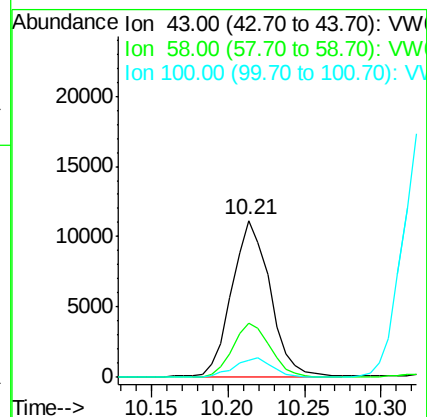
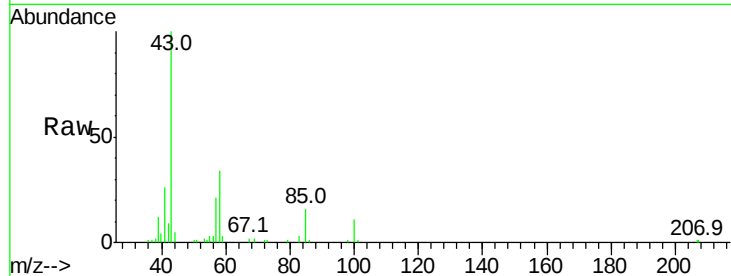
Tgt Ion: 43 Resp: 19430

Ion Ratio Lower Upper

43 100

58 34.0 29.4 44.2

100 12.3 10.6 16.0



#44

Toluene

Concen: 2.112 ug/L

RT: 10.39 min Scan# 1444

Delta R.T. 0.00 min

Lab File: VW004224.D

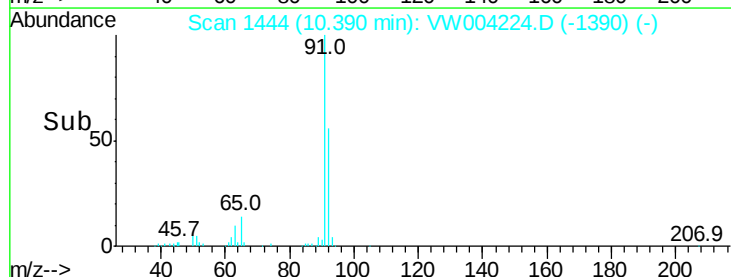
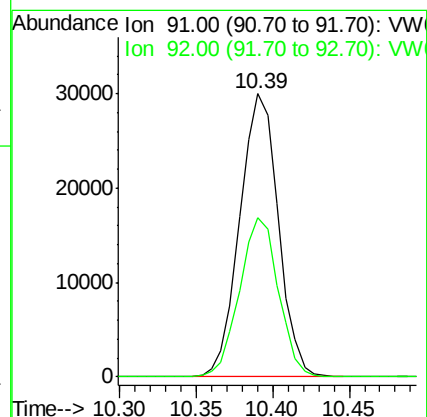
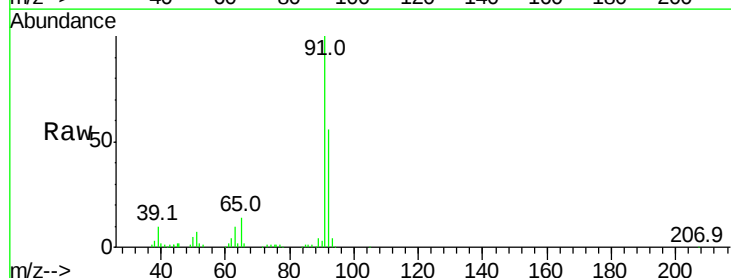
Acq: 26 Jul 2018 11:56

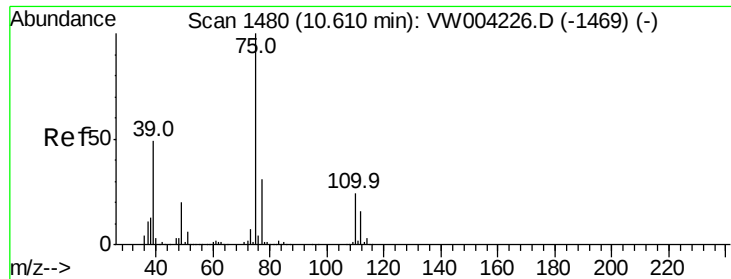
Tgt Ion: 91 Resp: 52518

Ion Ratio Lower Upper

91 100

92 56.2 39.9 74.1





#45

trans-1,3-Dichloropropene

Concen: 2.075 ug/L

RT: 10.61 min Scan# 1480

Delta R.T. 0.00 min

Lab File: VW004224.D

Acq: 26 Jul 2018 11:56

Instrument :

MSVOA_W

ClientSampleId :

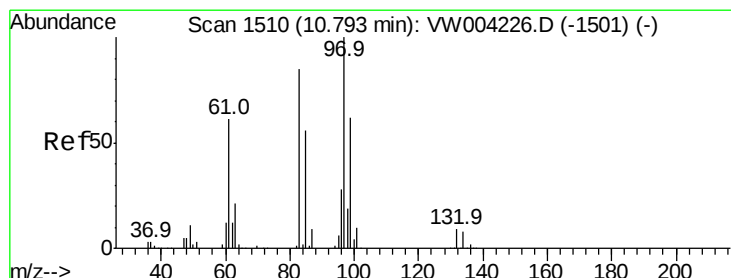
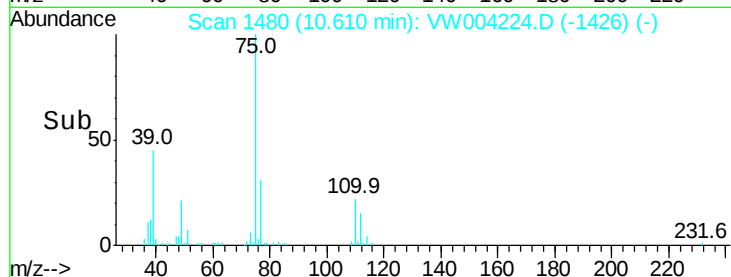
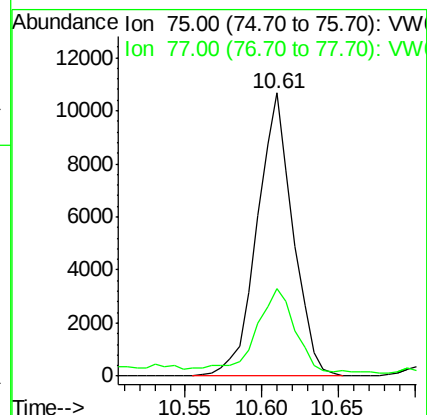
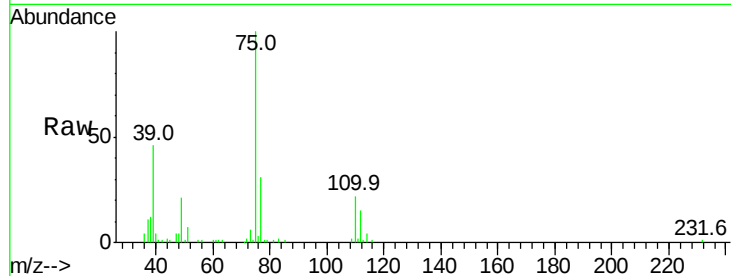
VSTD2.585

Tgt Ion: 75 Resp: 17350

Ion Ratio Lower Upper

75 100

77 30.9 21.6 40.2



#46

1,1,2-Trichloroethane

Concen: 2.187 ug/L

RT: 10.79 min Scan# 1509

Delta R.T. -0.01 min

Lab File: VW004224.D

Acq: 26 Jul 2018 11:56

Tgt Ion: 97 Resp: 10933

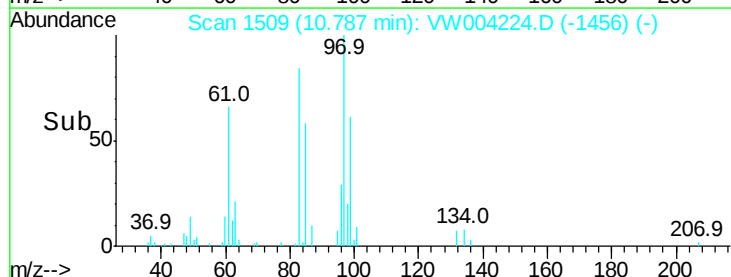
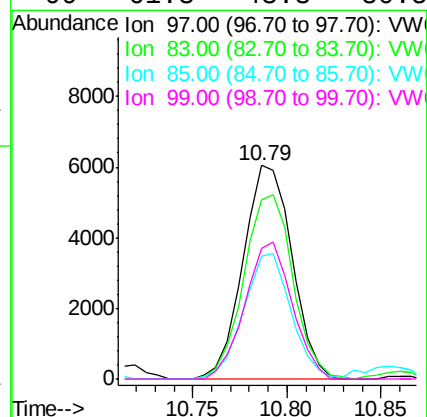
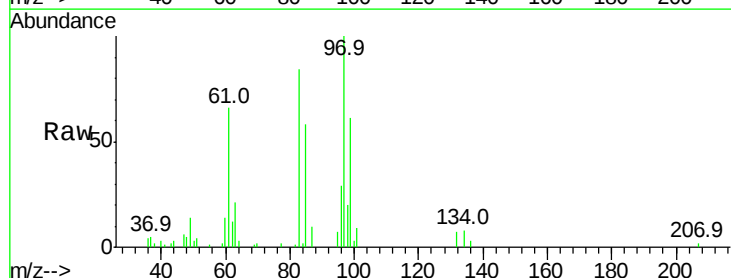
Ion Ratio Lower Upper

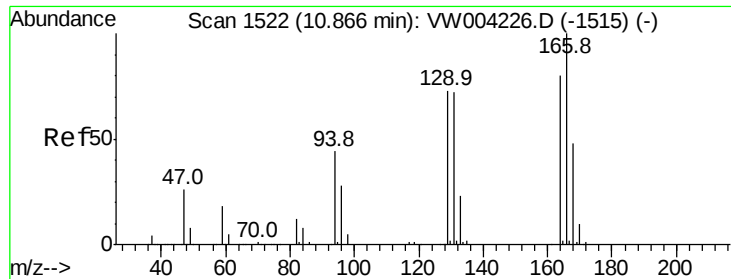
97 100

83 83.6 59.8 111.0

85 57.8 39.3 73.1

99 61.3 43.3 80.5





#47

Tetrachloroethene

Concen: 2.165 ug/L

RT: 10.87 min Scan# 1522

Delta R.T. 0.00 min

Lab File: VW004224.D

Acq: 26 Jul 2018 11:56

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.585

Tgt Ion:164 Resp: 11085

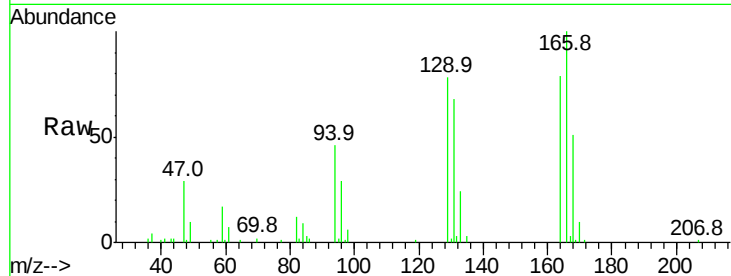
Ion Ratio Lower Upper

164 100

129 98.4 63.4 117.8

131 86.0 63.1 117.1

166 125.8 87.5 162.5

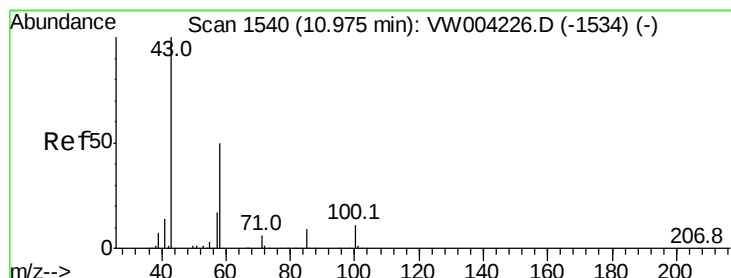
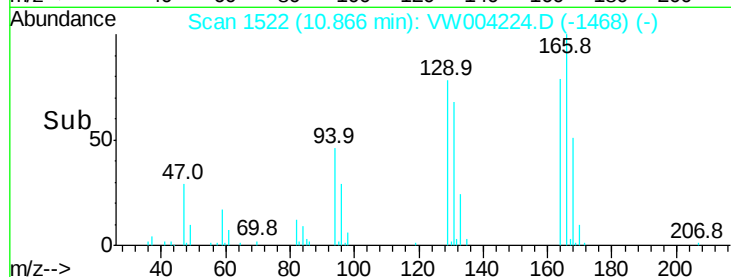
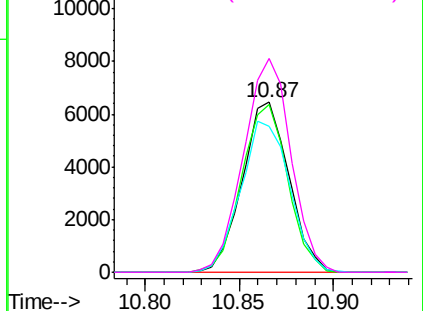


Abundance Ion 164.00 (163.70 to 164.70): V

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: 3.418 ug/L

RT: 10.97 min Scan# 1539

Delta R.T. -0.01 min

Lab File: VW004224.D

Acq: 26 Jul 2018 11:56

Tgt Ion: 43 Resp: 14962

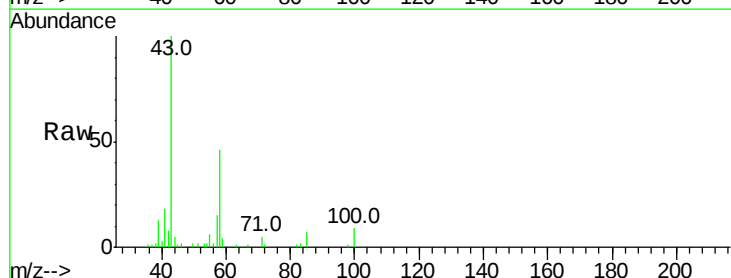
Ion Ratio Lower Upper

43 100

58 45.5 39.8 59.8

57 15.8 13.9 20.9

100 8.8 8.0 12.0



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

