

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW030719\
 Data File : VW009048.D
 Acq On : 07 Mar 2019 19:04
 Operator : SY/VA
 Sample : K1760-19
 Misc : 7.42G/5ML/MSVOA_W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 Z2-12

Quant Time: Mar 08 05:43:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 05:22:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	28622	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	43039	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	39177	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	13473	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	18450	64.07	ug/l	0.00
Spiked Amount			Recovery	=	128.14%	
35) Dibromofluoromethane	7.88	113	14854	57.32	ug/l	0.00
Spiked Amount			Recovery	=	114.64%	
50) Toluene-d8	10.32	98	49844	46.83	ug/l	0.00
Spiked Amount			Recovery	=	93.66%	
62) 4-Bromofluorobenzene	12.62	95	15096	36.03	ug/l	0.00
Spiked Amount			Recovery	=	72.06%	

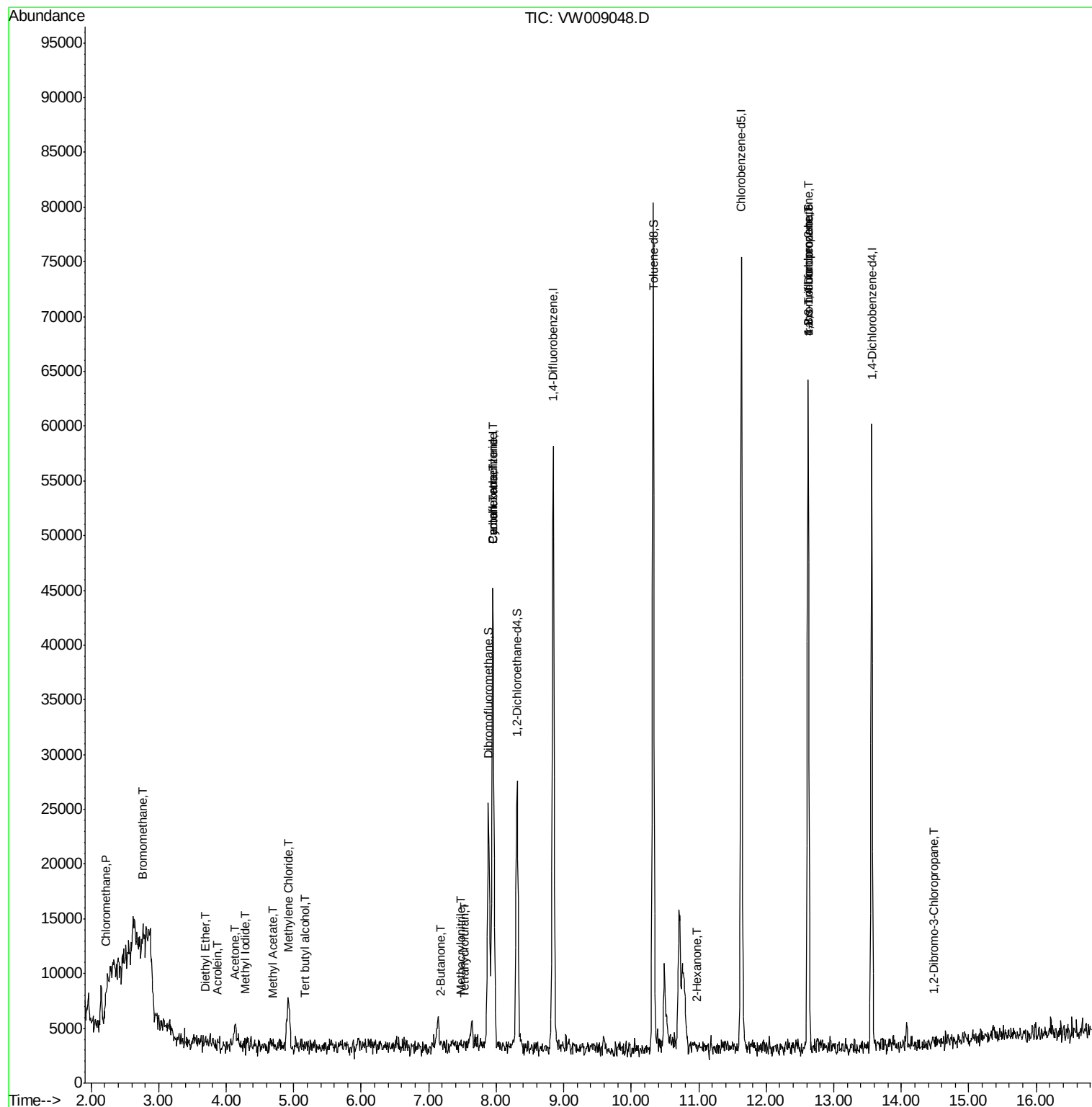
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	555	1.515	ug/l	89
5) Bromomethane	2.78	94	480	1.529	ug/l #	7
8) Diethyl Ether	3.70	74	275	1.878	ug/l	78
10) Methyl Iodide	4.28	142	186	3.726	ug/l #	40
11) Tert butyl alcohol	5.16	59	44	1.994	ug/l #	1
13) Acrolein	3.88	56	38	1.565	ug/l #	14
16) Acetone	4.14	43	2552	39.273	ug/l	98
18) Methyl Acetate	4.68	43	311	2.081	ug/l #	54
20) Methylene Chloride	4.92	84	2623	3.539	ug/l #	79
25) 2-Butanone	7.18	43	143	1.592	ug/l #	1
29) Tetrahydrofuran	7.53	42	141	2.491	ug/l #	60
31) Cyclohexane	7.95	56	1234	2.298	ug/l #	31
38) Carbon Tetrachloride	7.95	117	2953	6.354	ug/l #	23
41) Methacrylonitrile	7.47	41	278	2.368	ug/l #	50
59) 2-Hexanone	10.98	43	143	1.018	ug/l	96
76) 1,2,3-Trichloropropane	12.62	75	8479	79.654	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	8479	178.165	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	14.48	75	53	1.955	ug/l #	3

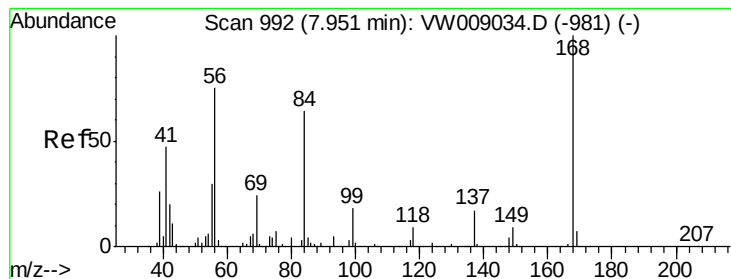
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW009048.D

Acq: 07 Mar 2019 19:04

Instrument :

MSVOA_W

ClientSampled :

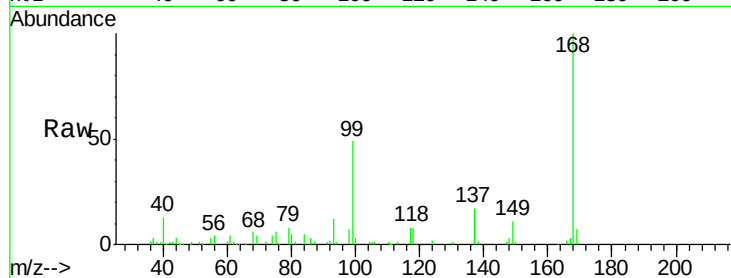
Z2-12

Tgt Ion:168 Resp: 28622

Ion Ratio Lower Upper

168 100

99 49.1 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

15000

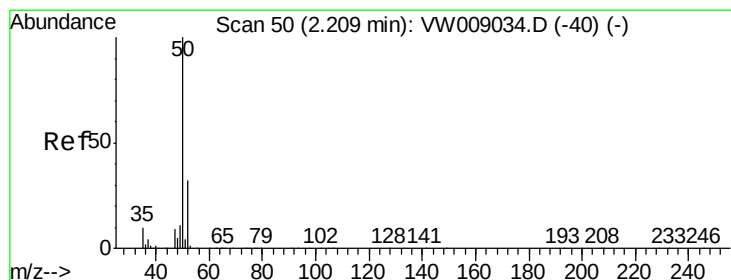
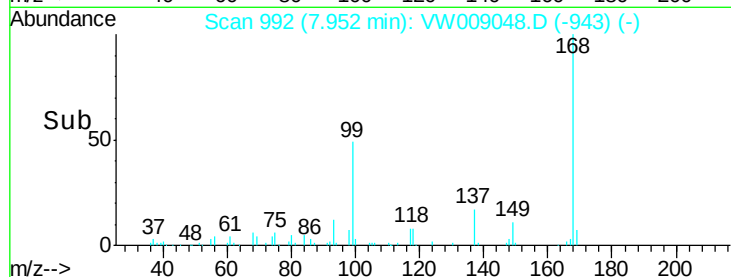
10000

5000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#3

Chloromethane

Concen: 1.515 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW009048.D

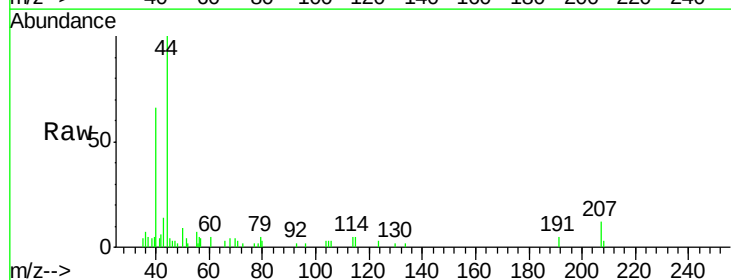
Acq: 07 Mar 2019 19:04

Tgt Ion: 50 Resp: 555

Ion Ratio Lower Upper

50 100

52 25.6 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.21

300

250

200

150

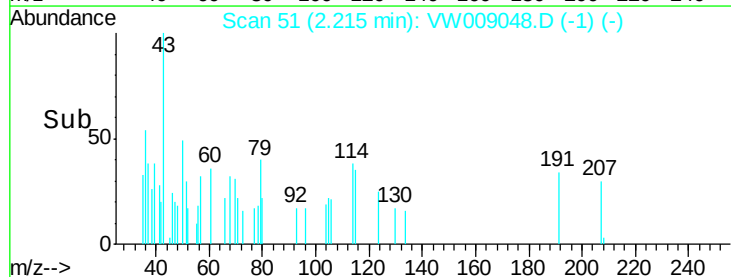
100

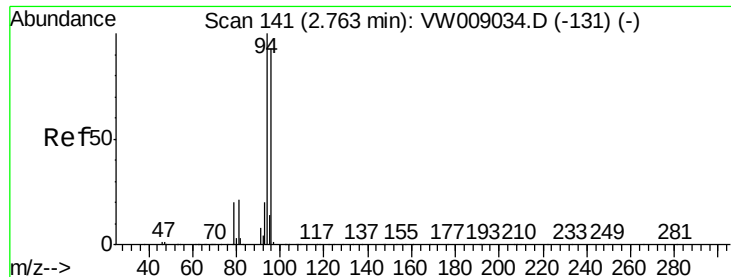
50

0

2.15 2.20 2.25 2.30

Time-->





#5

Bromomethane

Concen: 1.529 ug/l

RT: 2.78 min Scan# 143

Delta R.T. 0.01 min

Lab File: VW009048.D

Acq: 07 Mar 2019 19:04

Instrument :

MSVOA_W

ClientSampled :

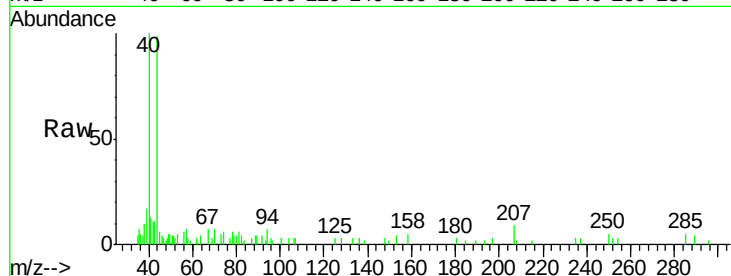
Z2-12

Tgt Ion: 94 Resp: 480

Ion Ratio Lower Upper

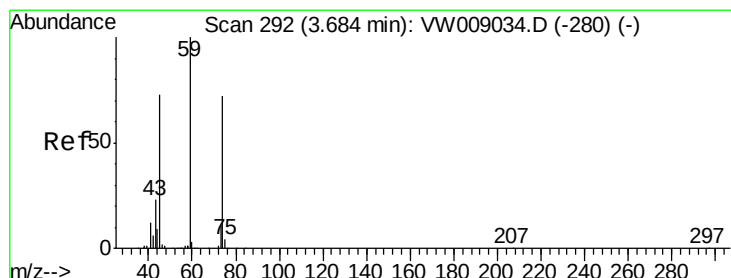
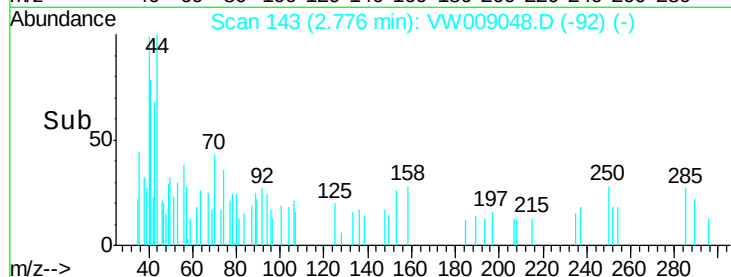
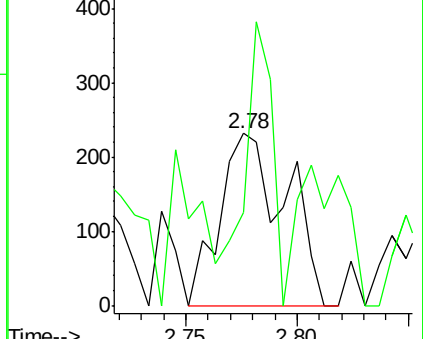
94 100

96 3.9 74.4 111.6#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#8

Diethyl Ether

Concen: 1.878 ug/l

RT: 3.70 min Scan# 294

Delta R.T. 0.01 min

Lab File: VW009048.D

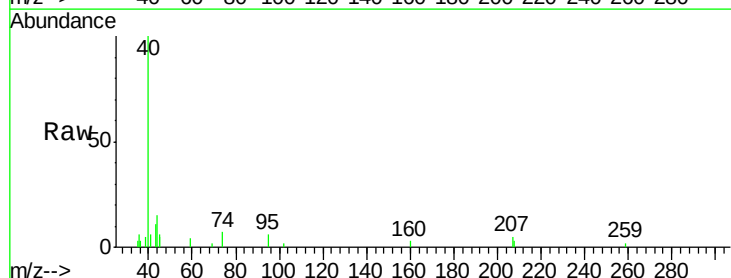
Acq: 07 Mar 2019 19:04

Tgt Ion: 74 Resp: 275

Ion Ratio Lower Upper

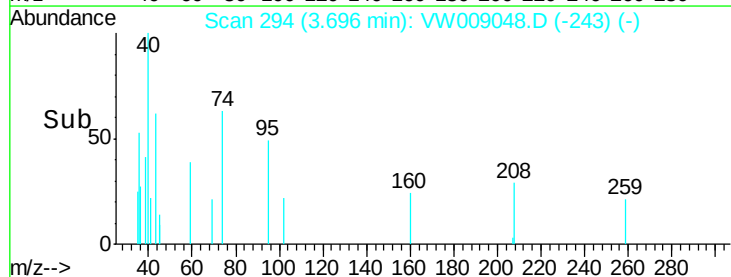
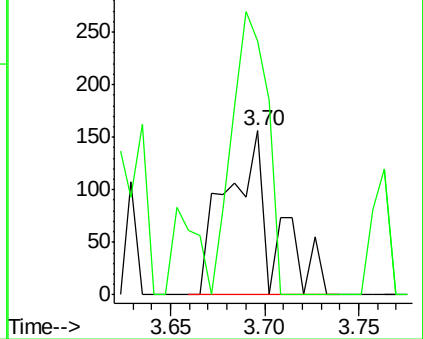
74 100

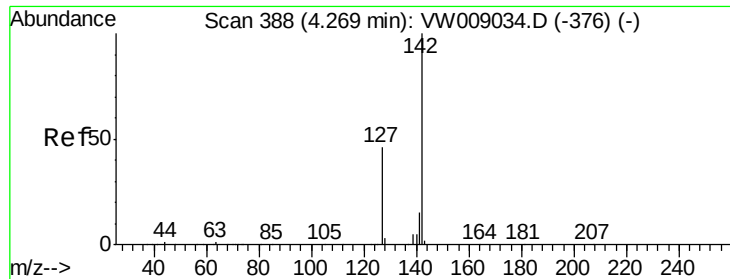
45 127.3 52.3 157.1



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

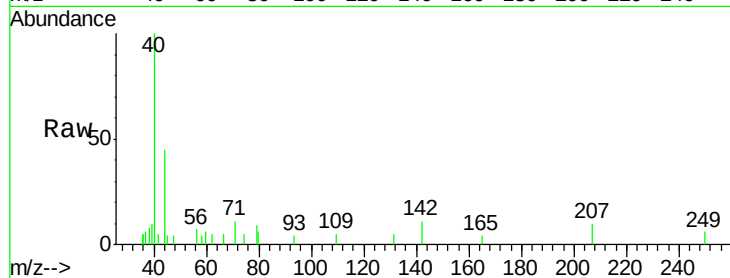




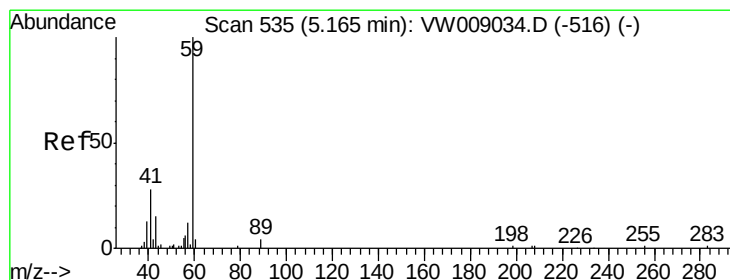
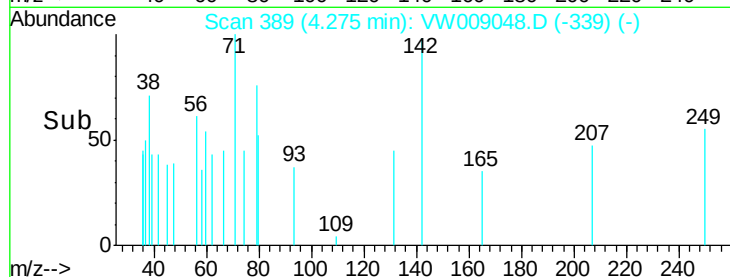
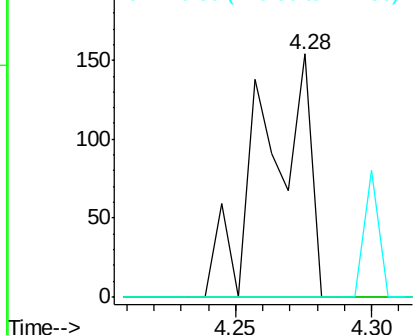
#10
Methyl Iodide
Concen: 3.726 ug/l
RT: 4.28 min Scan# 389
Delta R.T. 0.01 min
Lab File: VW009048.D
Acq: 07 Mar 2019 19:04

Instrument :
MSVOA_W
ClientSampleId :
Z2-12

Tgt Ion: 142 Resp: 186
Ion Ratio Lower Upper
142 100
127 0.0 35.8 53.6#
141 0.0 11.8 17.8#

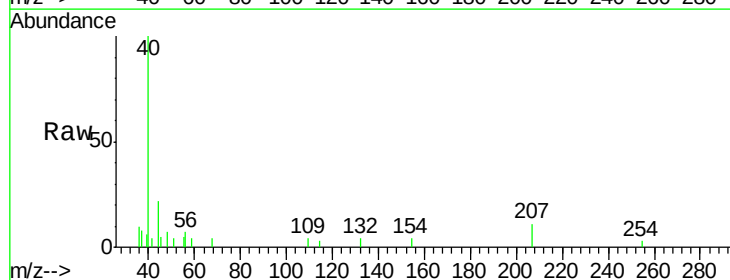


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

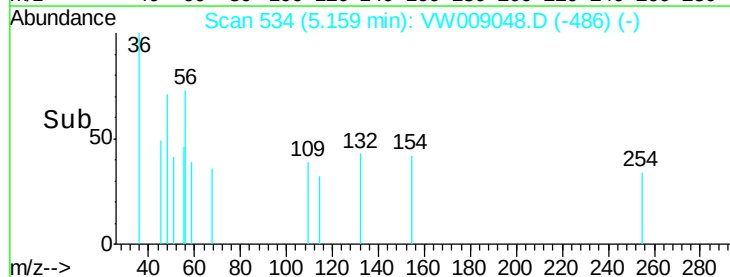
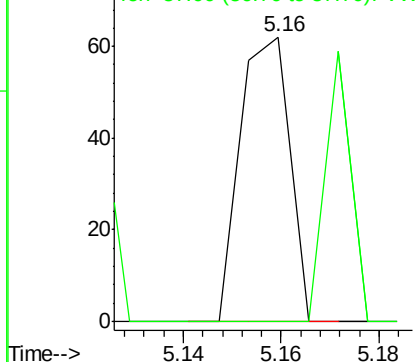


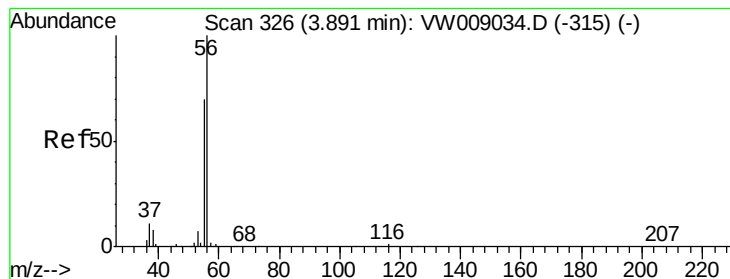
#11
Tert butyl alcohol
Concen: 1.994 ug/l
RT: 5.16 min Scan# 534
Delta R.T. -0.01 min
Lab File: VW009048.D
Acq: 07 Mar 2019 19:04

Tgt Ion: 59 Resp: 44
Ion Ratio Lower Upper
59 100
57 50.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VW
Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 1.565 ug/l

RT: 3.88 min Scan# 324

Delta R.T. -0.01 min

Lab File: VW009048.D

Acq: 07 Mar 2019 19:04

Instrument :

MSVOA_W

ClientSampled :

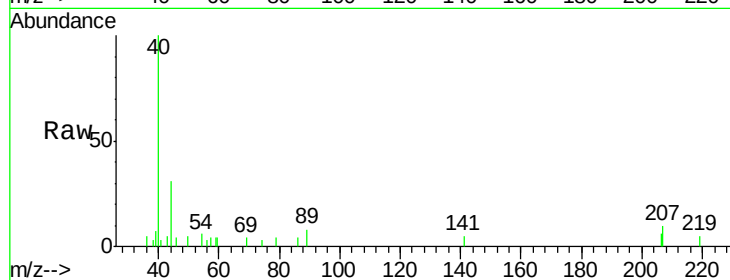
Z2-12

Tgt Ion: 56 Resp: 38

Ion Ratio Lower Upper

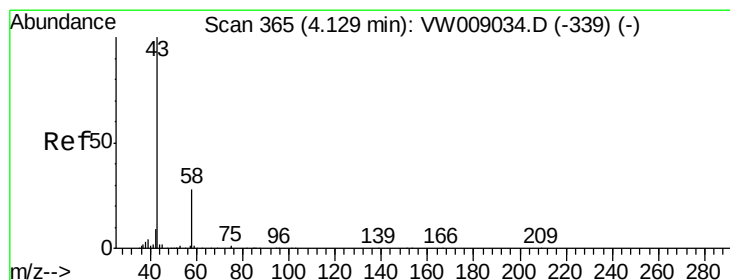
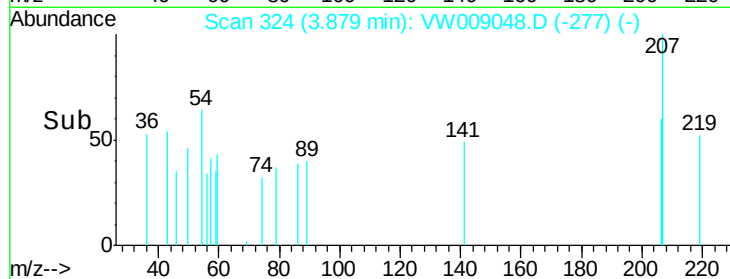
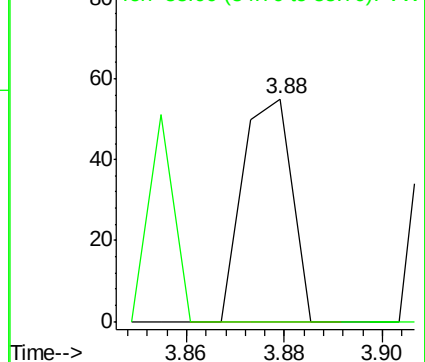
56 100

55 0.0 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 39.273 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW009048.D

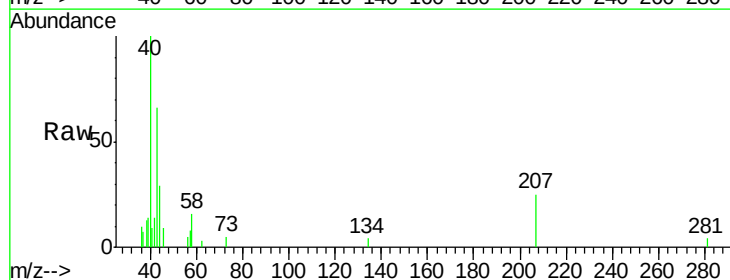
Acq: 07 Mar 2019 19:04

Tgt Ion: 43 Resp: 2552

Ion Ratio Lower Upper

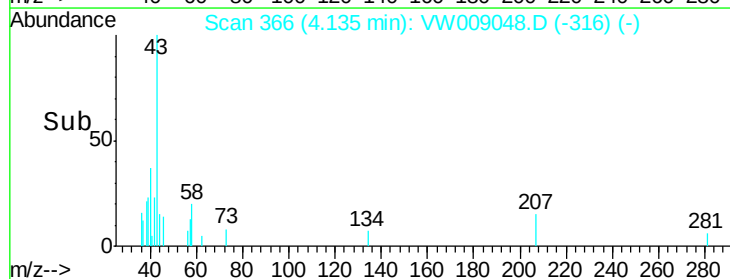
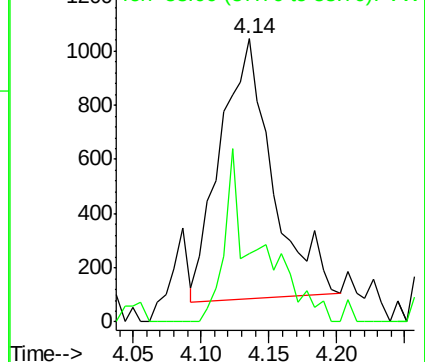
43 100

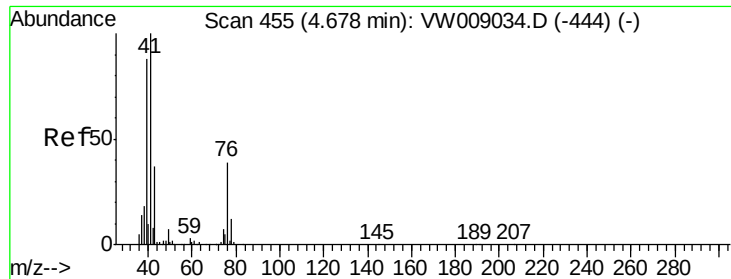
58 27.0 22.5 33.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

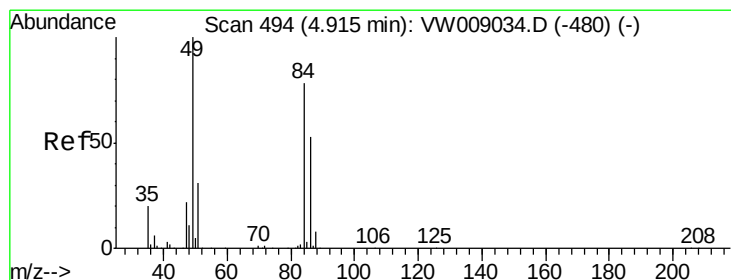
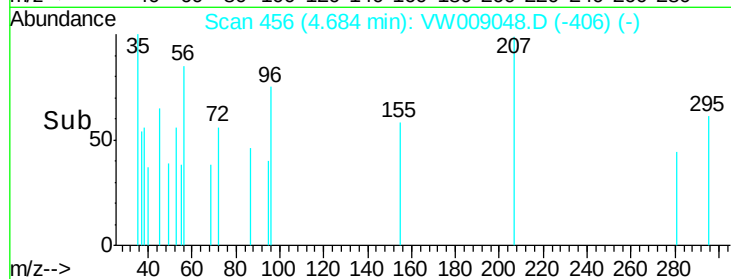
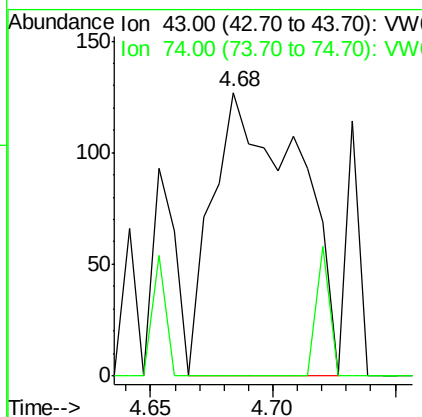
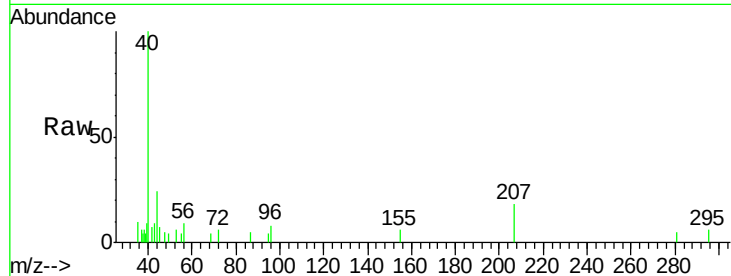




#18
Methyl Acetate
Concen: 2.081 ug/l
RT: 4.68 min Scan# 456
Delta R.T. 0.01 min
Lab File: VW009048.D
Acq: 07 Mar 2019 19:04

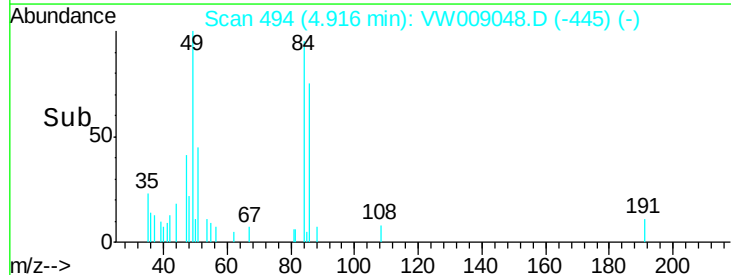
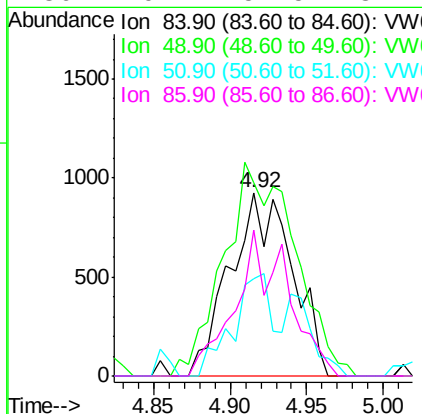
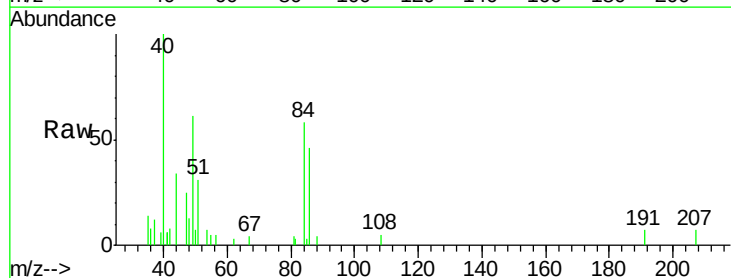
Instrument :
MSVOA_W
ClientSampled :
Z2-12

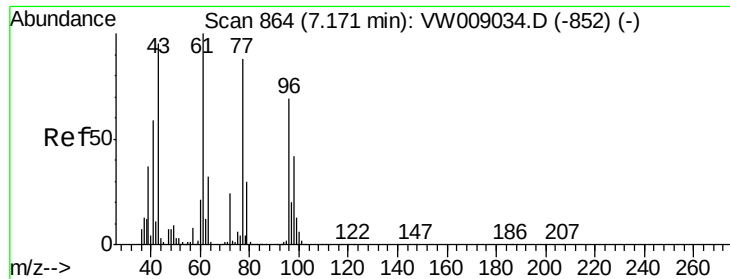
Tgt Ion: 43 Resp: 311
Ion Ratio Lower Upper
43 100
74 0.0 17.6 26.4#



#20
Methylene Chloride
Concen: 3.539 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW009048.D
Acq: 07 Mar 2019 19:04

Tgt Ion: 84 Resp: 2623
Ion Ratio Lower Upper
84 100
49 98.8 102.4 153.6#
51 53.1 31.6 47.4#
86 79.4 54.5 81.7





#25

2-Butanone

Concen: 1.592 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW009048.D

Acq: 07 Mar 2019 19:04

Instrument :

MSVOA_W

ClientSampled :

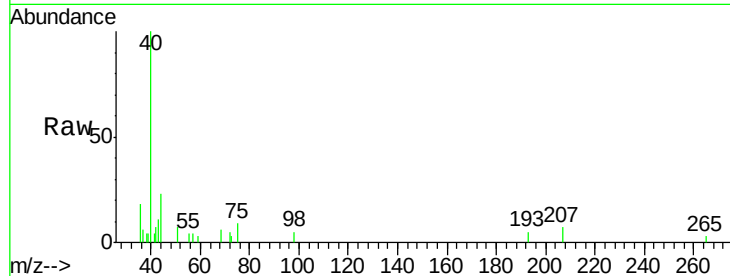
Z2-12

Tgt Ion: 43 Resp: 143

Ion Ratio Lower Upper

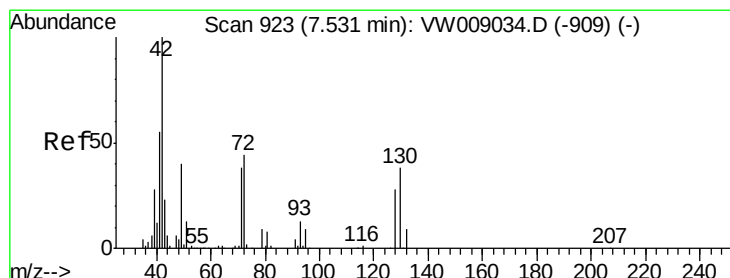
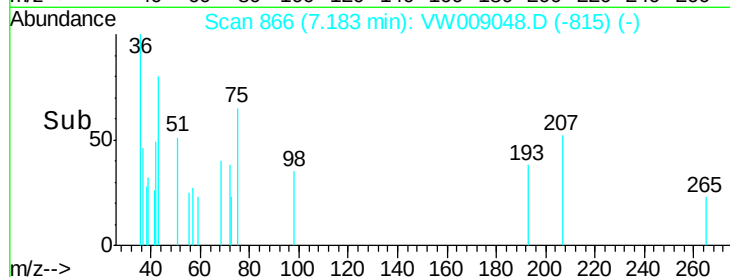
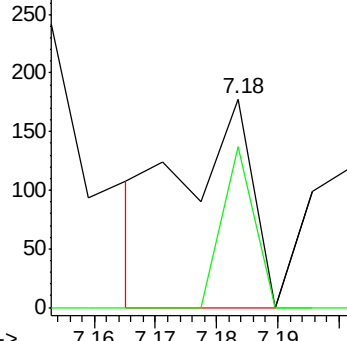
43 100

72 77.0 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#29

Tetrahydrofuran

Concen: 2.491 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.00 min

Lab File: VW009048.D

Acq: 07 Mar 2019 19:04

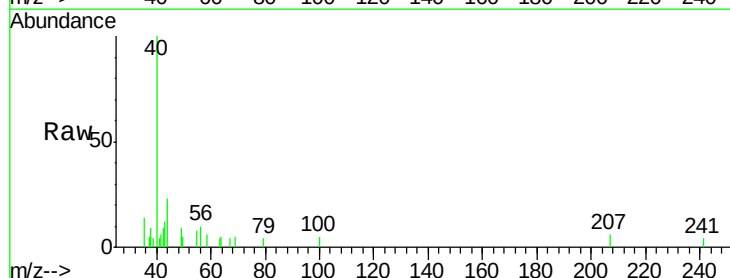
Tgt Ion: 42 Resp: 141

Ion Ratio Lower Upper

42 100

72 29.1 32.2 48.4#

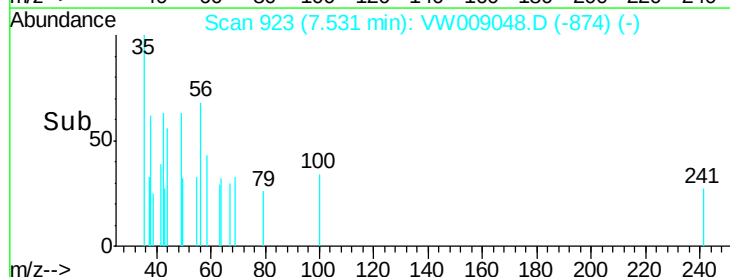
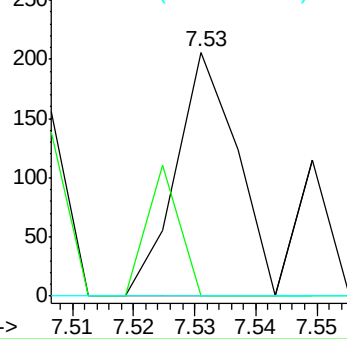
71 0.0 30.7 46.1#

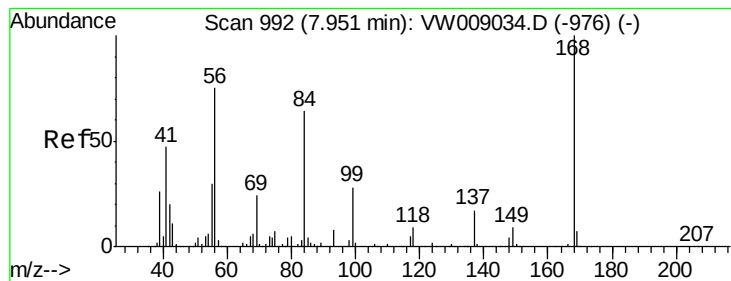


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 2.298 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW009048.D

Acq: 07 Mar 2019 19:04

Instrument :

MSVOA_W

ClientSampled :

Z2-12

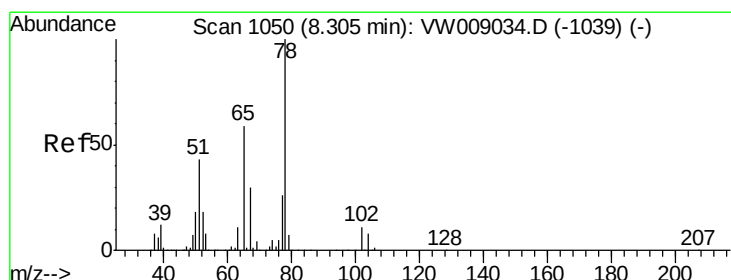
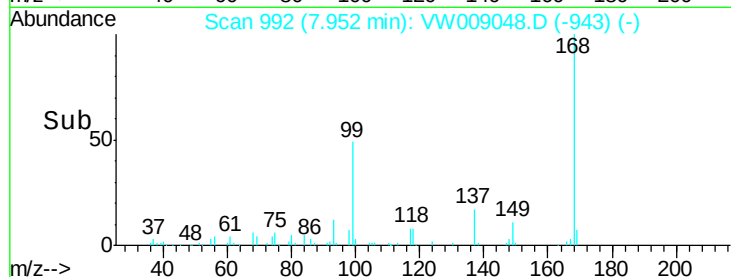
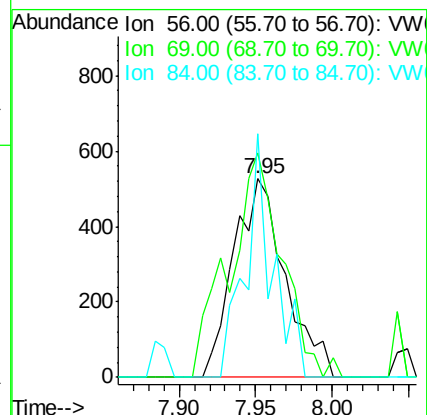
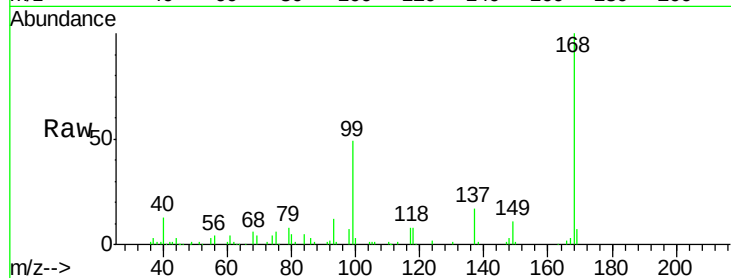
Tgt Ion: 56 Resp: 1234

Ion Ratio Lower Upper

56 100

69 113.1 25.5 38.3#

84 122.6 68.6 103.0#



#33

1,2-Dichloroethane-d4

Concen: 64.070 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. 0.01 min

Lab File: VW009048.D

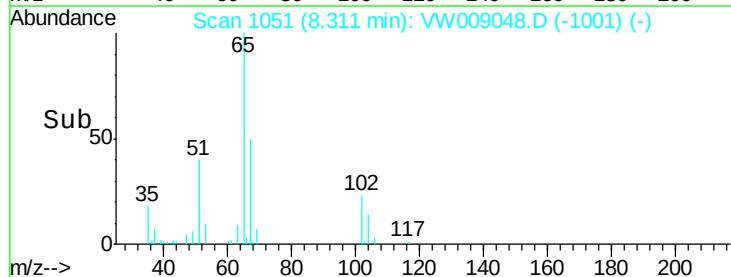
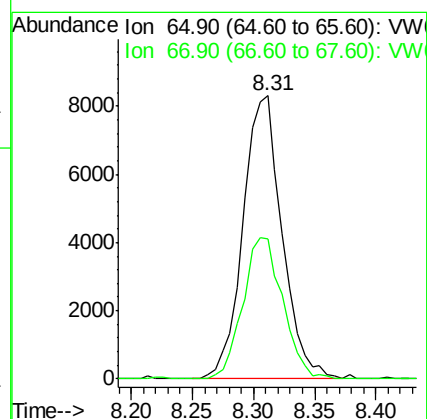
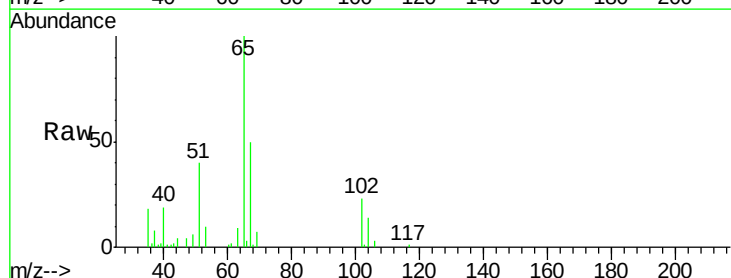
Acq: 07 Mar 2019 19:04

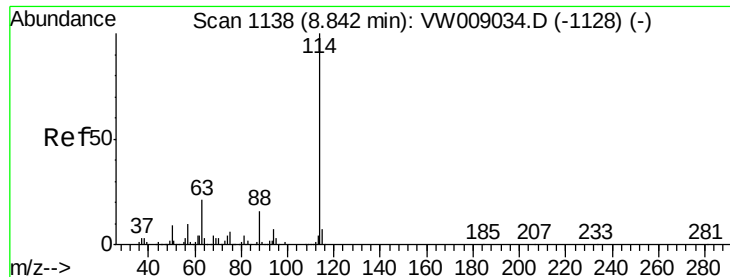
Tgt Ion: 65 Resp: 18450

Ion Ratio Lower Upper

65 100

67 51.0 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW009048.D

Acq: 07 Mar 2019 19:04

Instrument :

MSVOA_W

ClientSampled :

Z2-12

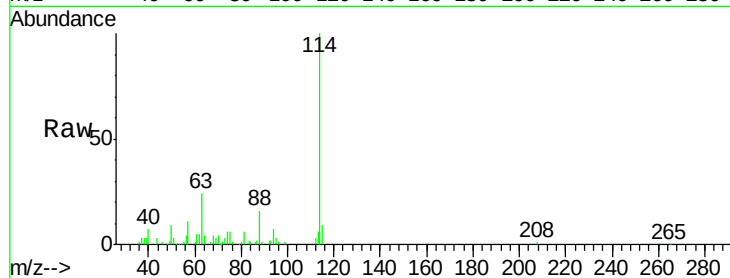
Tgt Ion:114 Resp: 43039

Ion Ratio Lower Upper

114 100

63 23.8 0.0 41.2

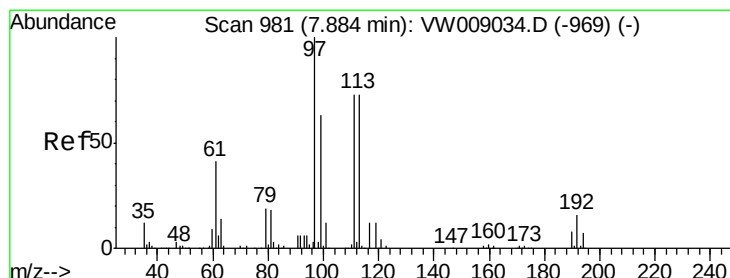
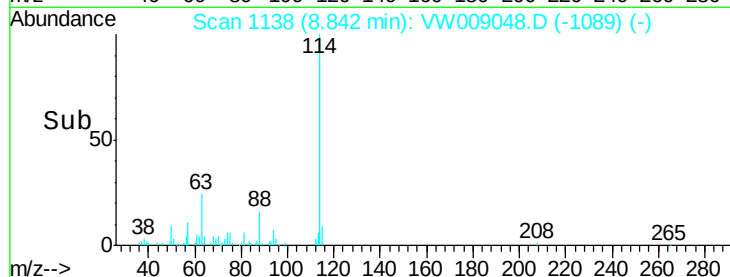
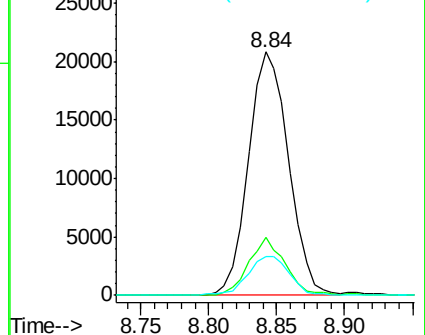
88 16.0 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 57.322 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW009048.D

Acq: 07 Mar 2019 19:04

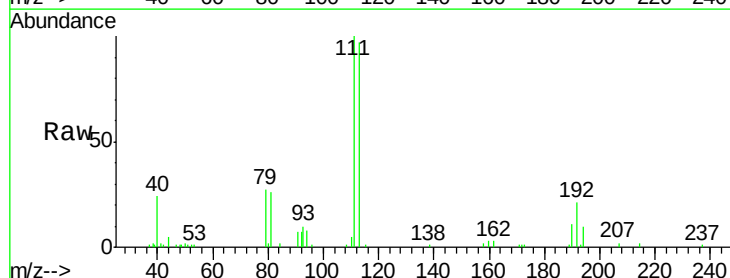
Tgt Ion:113 Resp: 14854

Ion Ratio Lower Upper

113 100

111 102.1 81.0 121.4

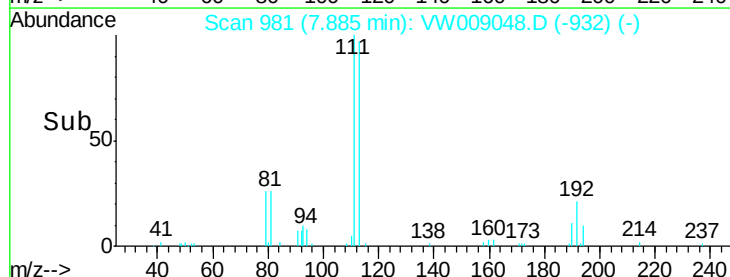
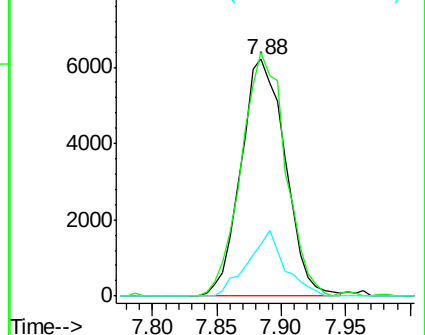
192 22.9 17.1 25.7

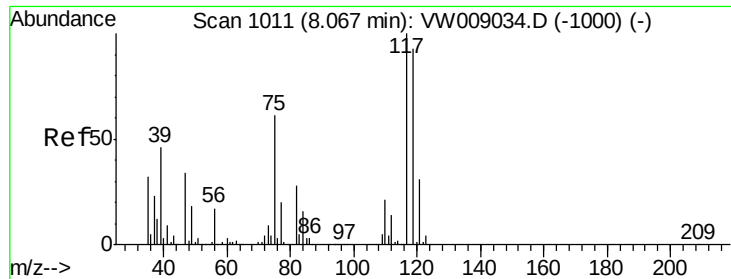


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 6.354 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW009048.D

Acq: 07 Mar 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

Z2-12

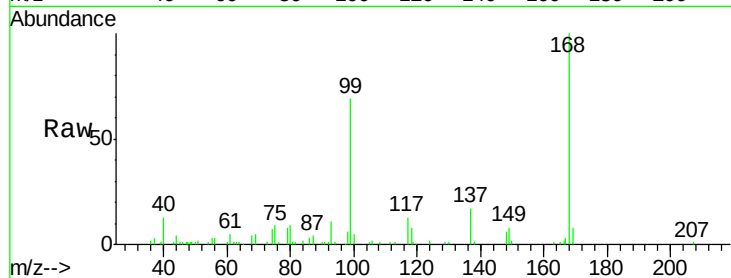
Tgt Ion: 117 Resp: 2953

Ion Ratio Lower Upper

117 100

119 12.5 74.6 112.0#

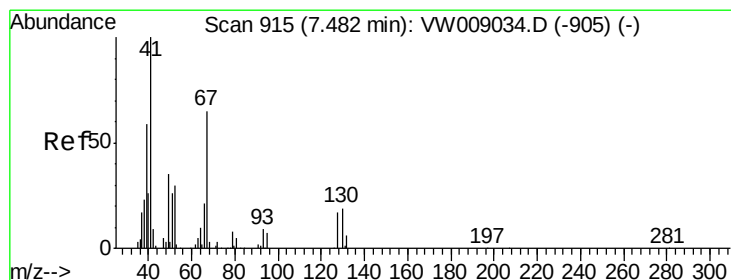
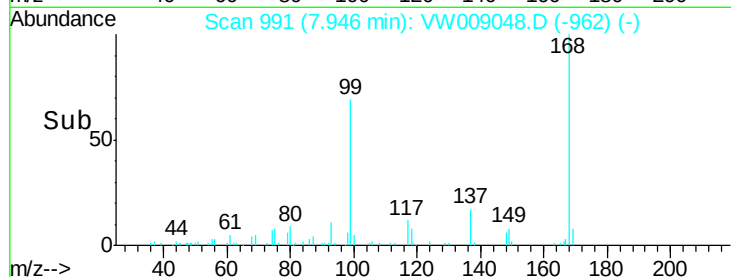
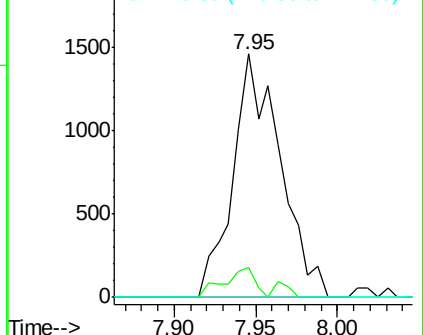
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 2.368 ug/l

RT: 7.47 min Scan# 913

Delta R.T. -0.01 min

Lab File: VW009048.D

Acq: 07 Mar 2019 19:04

Tgt Ion: 41 Resp: 278

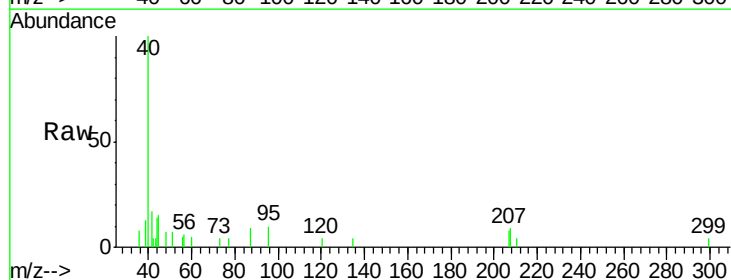
Ion Ratio Lower Upper

41 100

39 48.2 53.6 80.4#

67 0.0 57.6 86.4#

52 18.0 26.0 39.0#

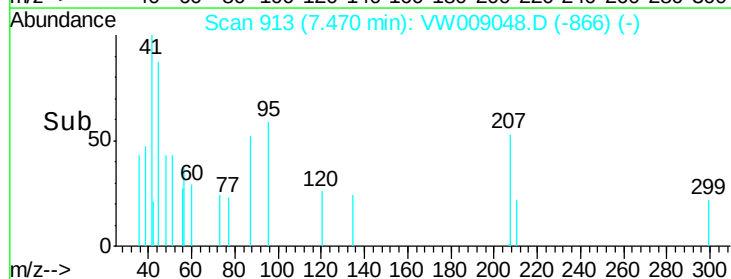
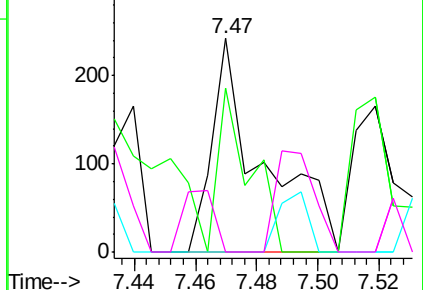


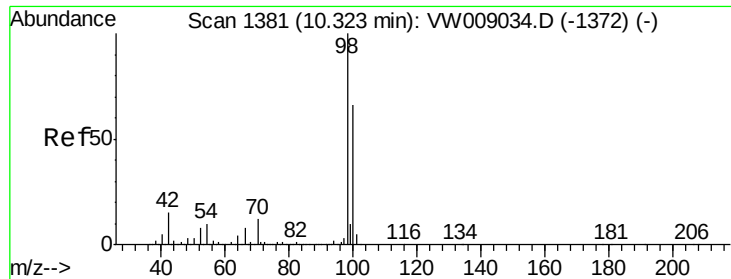
Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW

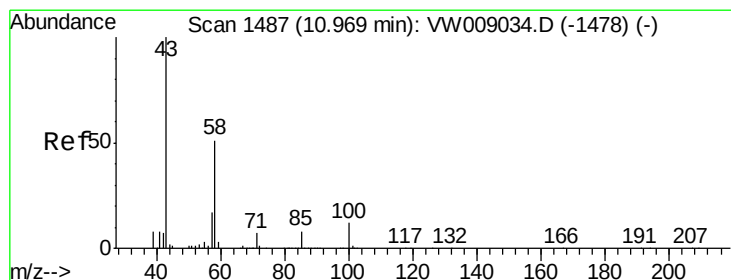
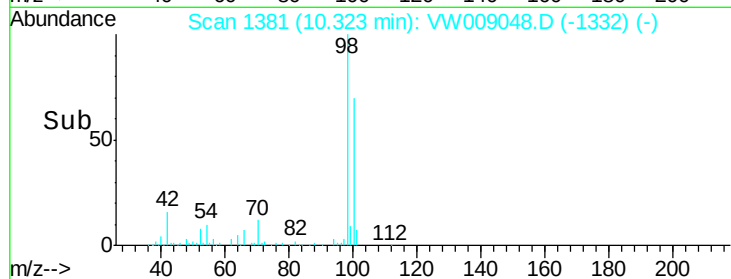
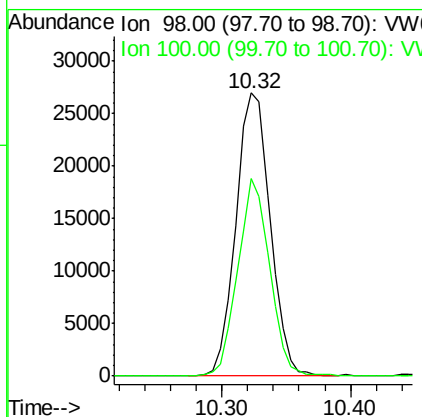
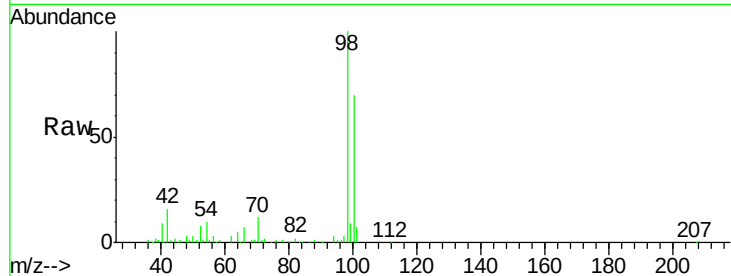




#50
Toluene-d8
Concen: 46.833 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW009048.D
Acq: 07 Mar 2019 19:04

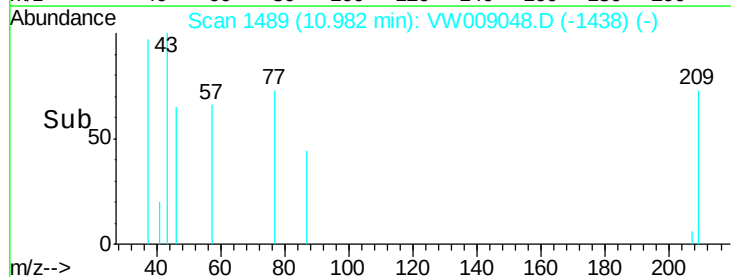
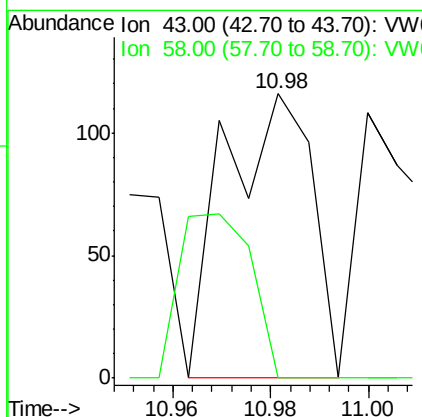
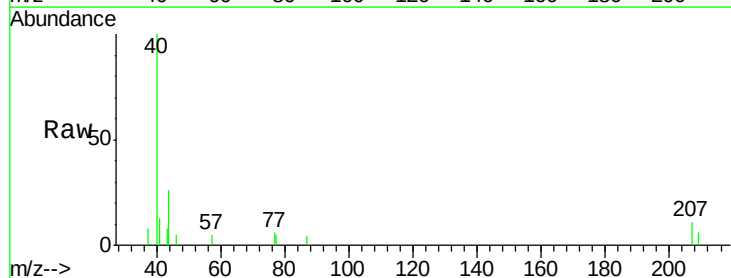
Instrument :
MSVOA_W
ClientSampled :
Z2-12

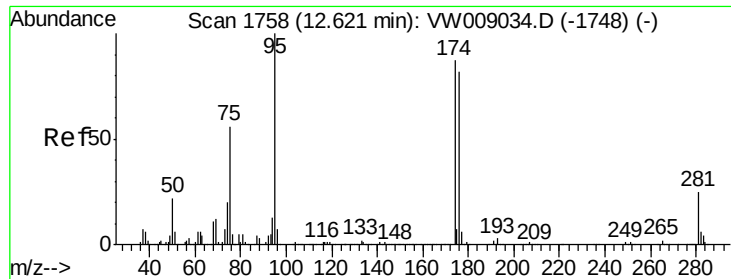
Tgt Ion: 98 Resp: 49844
Ion Ratio Lower Upper
98 100
100 64.8 51.9 77.9



#59
2-Hexanone
Concen: 1.018 ug/l
RT: 10.98 min Scan# 1489
Delta R.T. 0.01 min
Lab File: VW009048.D
Acq: 07 Mar 2019 19:04

Tgt Ion: 43 Resp: 143
Ion Ratio Lower Upper
43 100
58 47.6 25.3 75.9

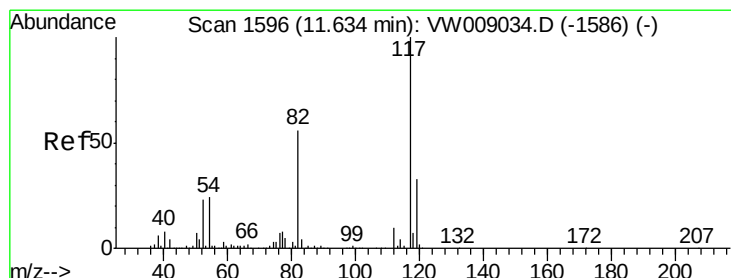
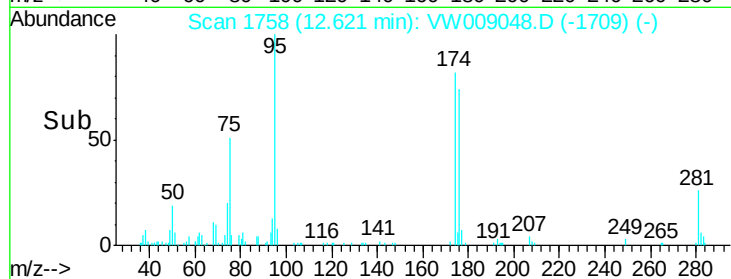
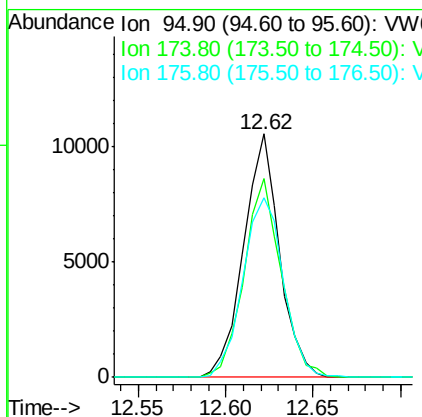
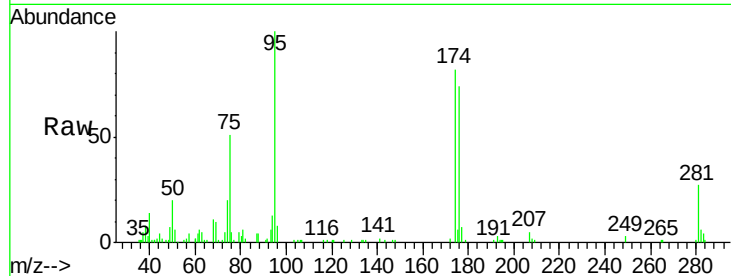




#62
4-Bromofluorobenzene
Concen: 36.031 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW009048.D
Acq: 07 Mar 2019 19:04

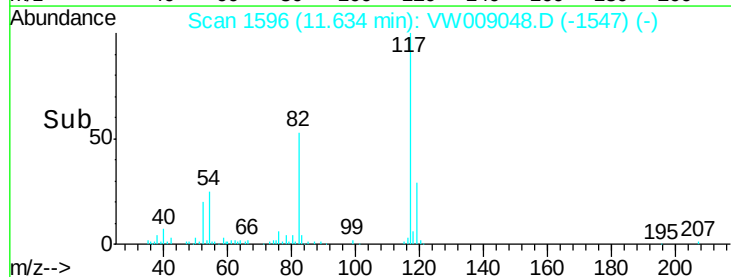
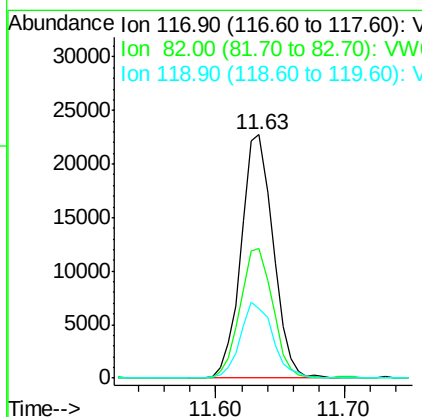
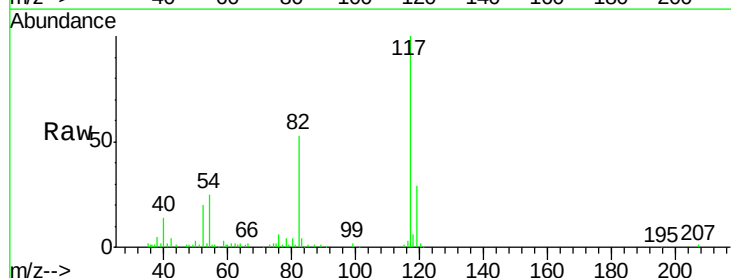
Instrument :
MSVOA_W
ClientSampled :
Z2-12

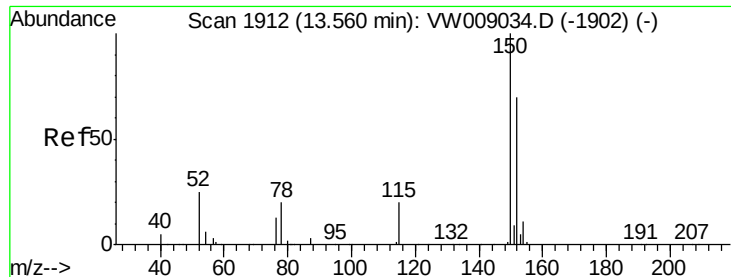
Tgt Ion: 95 Resp: 15096
Ion Ratio Lower Upper
95 100
174 84.4 0.0 167.0
176 83.6 0.0 159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW009048.D
Acq: 07 Mar 2019 19:04

Tgt Ion: 117 Resp: 39177
Ion Ratio Lower Upper
117 100
82 53.2 45.0 67.6
119 28.8 26.6 39.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW009048.D

Acq: 07 Mar 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

Z2-12

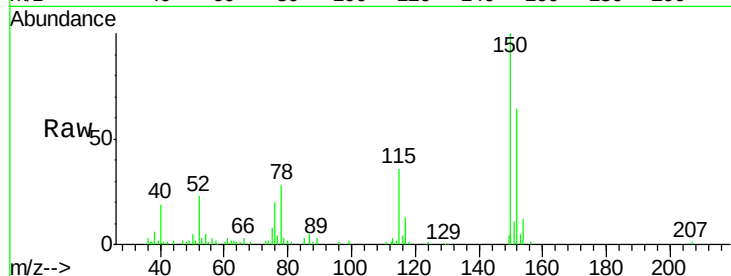
Tgt Ion:152 Resp: 13473

Ion Ratio Lower Upper

152 100

115 59.3 28.9 86.7

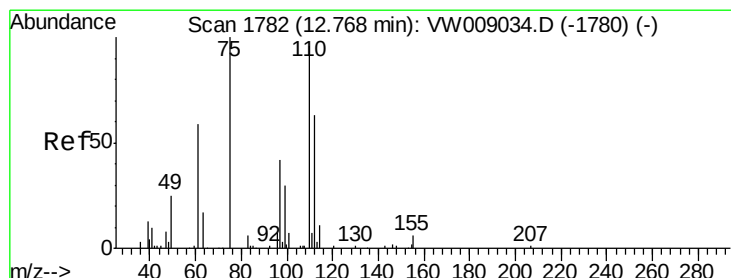
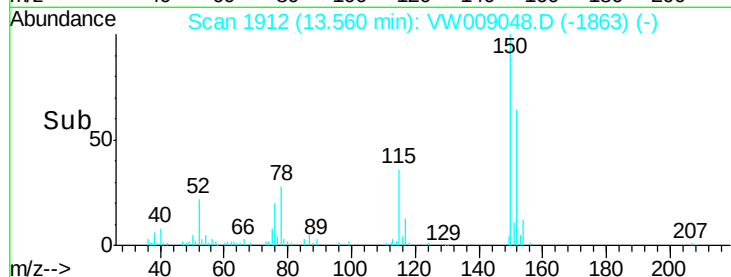
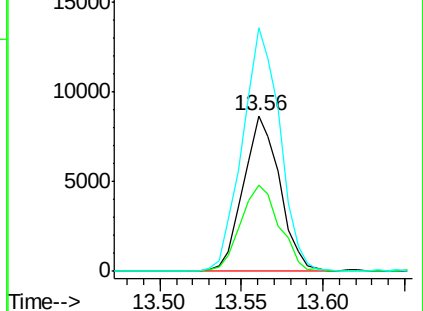
150 161.2 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 79.654 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW009048.D

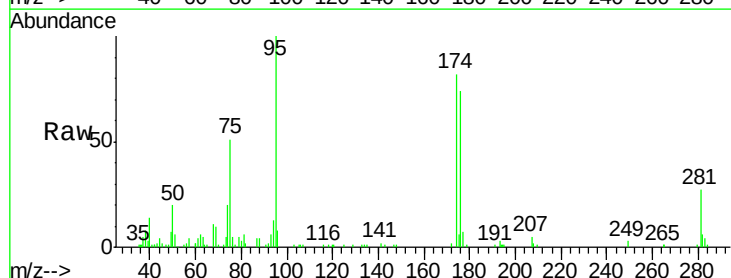
Acq: 07 Mar 2019 19:04

Tgt Ion: 75 Resp: 8479

Ion Ratio Lower Upper

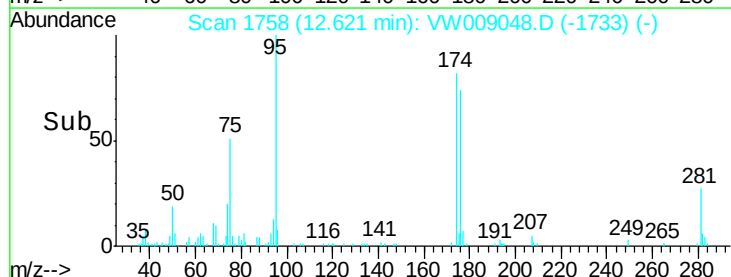
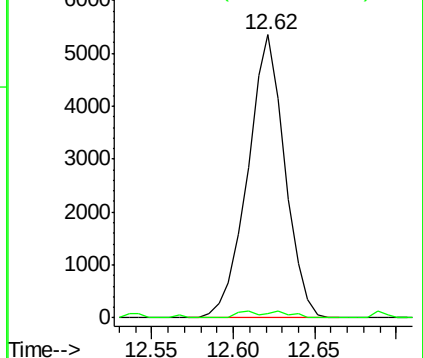
75 100

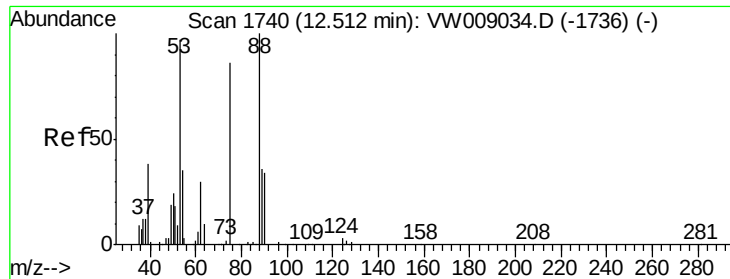
77 1.2 186.7 560.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 178.165 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW009048.D

Acq: 07 Mar 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

Z2-12

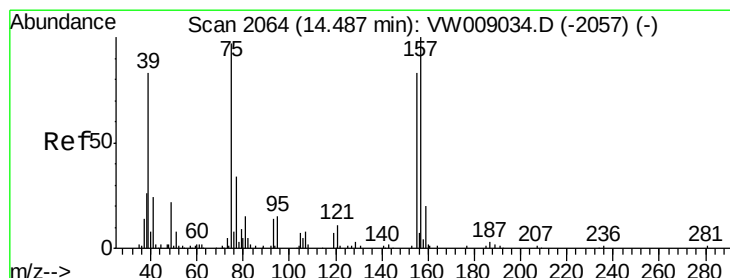
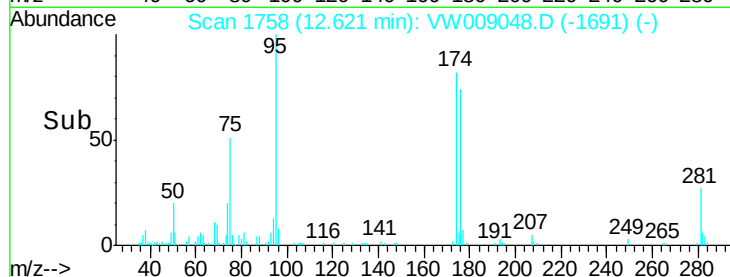
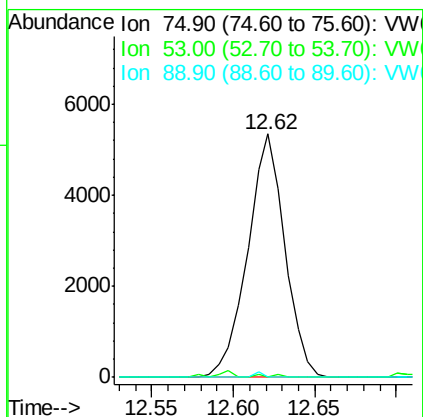
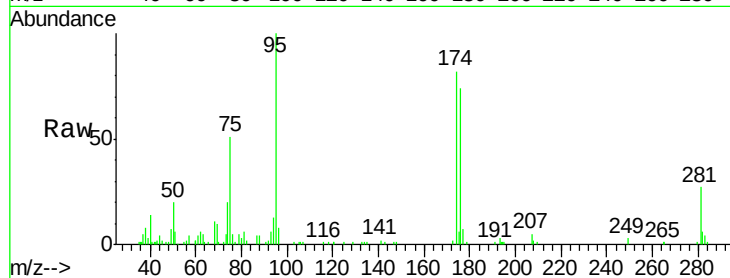
Tgt Ion: 75 Resp: 8479

Ion Ratio Lower Upper

75 100

53 0.5 90.5 135.7#

89 0.5 37.5 56.3#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.955 ug/l

RT: 14.48 min Scan# 2063

Delta R.T. -0.01 min

Lab File: VW009048.D

Acq: 07 Mar 2019 19:04

Tgt Ion: 75 Resp: 53

Ion Ratio Lower Upper

75 100

155 0.0 40.8 122.4#

157 0.0 52.4 157.3#

