

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091118\
 Data File : VW005297.D
 Acq On : 12 Sep 2018 02:32
 Operator : SY/AP
 Sample : J4821-04
 Misc : 10.42G/5ML/MSVOA W/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 12 14:13:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 03:48:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	46665	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	67271	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	51760	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	15116	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.32	65	21059	60.50	ug/l	0.00
Spiked Amount			Recovery	=	121.00%	
35) Dibromofluoromethane	7.90	113	17780	50.46	ug/l	0.00
Spiked Amount			Recovery	=	100.92%	
50) Toluene-d8	10.33	98	47620	26.74	ug/l	0.00
Spiked Amount			Recovery	=	53.48%	
62) 4-Bromofluorobenzene	12.63	95	14704	22.58	ug/l	0.00
Spiked Amount			Recovery	=	45.16%	

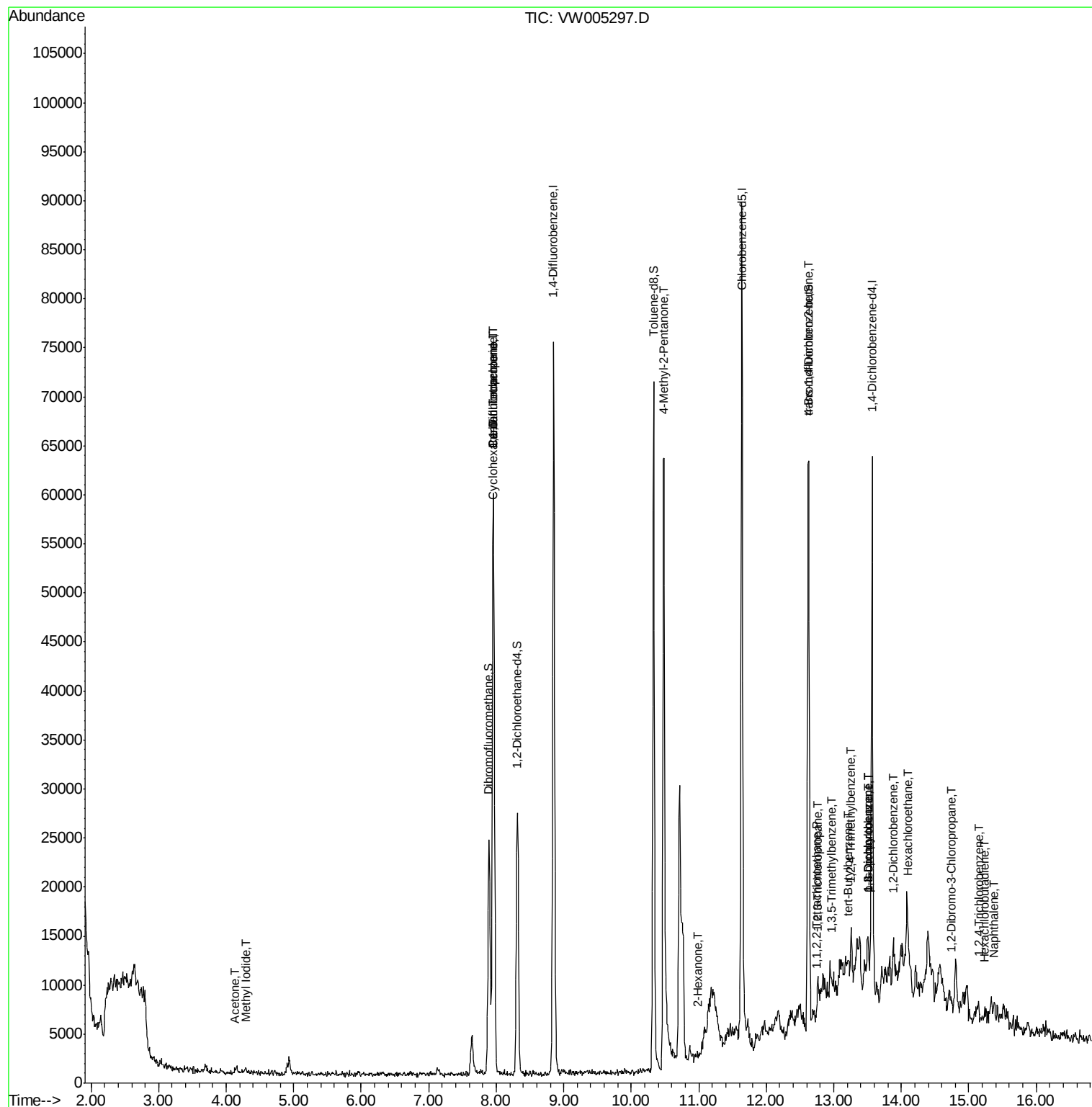
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.79	94	620	Below Cal	#	49
10) Methyl Iodide	4.29	142	837	4.90	ug/l #	63
16) Acetone	4.13	43	1114	17.24	ug/l	89
20) Methylene Chloride	4.92	84	655	Below Cal	#	71
31) Cyclohexane	7.95	56	846	1.14	ug/l #	33
36) 1,1-Dichloropropene	7.95	75	3164	5.13	ug/l #	47
38) Carbon Tetrachloride	7.96	117	4442	7.69	ug/l #	17
51) 4-Methyl-2-Pentanone	10.48	43	634	2.59	ug/l	90
59) 2-Hexanone	10.98	43	198	1.12	ug/l #	22
75) 1,1,2,2-Tetrachloroethane	12.74	83	651	4.06	ug/l #	29
76) 1,2,3-Trichloropropane	12.76	75	252	2.17	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.96	105	1025	1.13	ug/l	65
81) trans-1,4-Dichloro-2-buten	12.63	75	6913	139.44	ug/l #	16
83) tert-Butylbenzene	13.21	119	797	1.00	ug/l	89
84) 1,2,4-Trimethylbenzene	13.26	105	3097	3.39	ug/l	98
86) p-Isopropyltoluene	13.51	119	1063	1.05	ug/l #	80
87) 1,3-Dichlorobenzene	13.51	146	676	1.28	ug/l #	65
88) 1,4-Dichlorobenzene	13.51	146	676	1.30	ug/l	78
90) Hexachloroethane	14.10	117	319	1.97	ug/l #	5
91) 1,2-Dichlorobenzene	13.88	146	494	1.06	ug/l #	55
92) 1,2-Dibromo-3-Chloropropan	14.74	75	49	1.84	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.15	180	405	1.23	ug/l #	82
94) Hexachlorobutadiene	15.24	225	248	1.18	ug/l	86
95) Naphthalene	15.37	128	1262	2.37	ug/l #	85

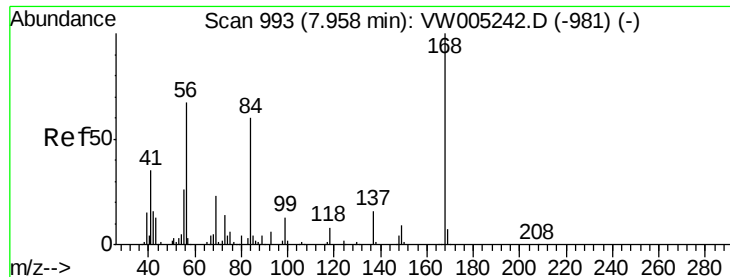
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 11 03:48:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW005297.D

Acq: 12 Sep 2018 02:32

Instrument :

MSVOA_W

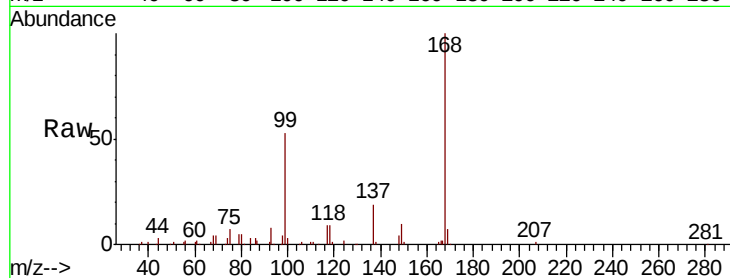
ClientSampled :

Tot Ion:168 Resp: 46665

Ion Ratio Lower Upper

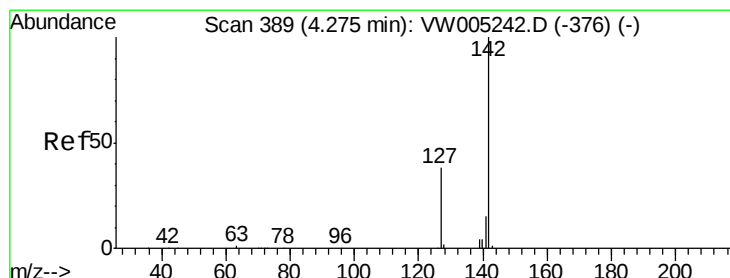
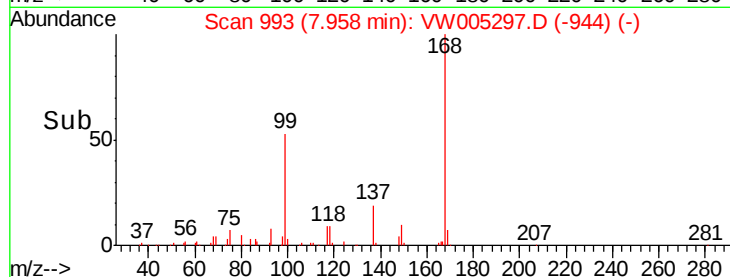
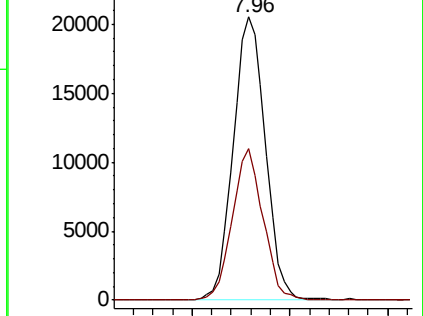
168 100

99 53.5 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#10

Methyl Iodide

Concen: 4.90 ug/l

RT: 4.29 min Scan# 391

Delta R.T. 0.01 min

Lab File: VW005297.D

Acq: 12 Sep 2018 02:32

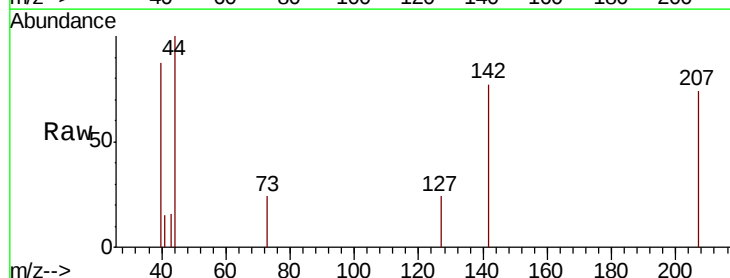
Tgt Ion:142 Resp: 837

Ion Ratio Lower Upper

142 100

127 14.8 30.3 45.5#

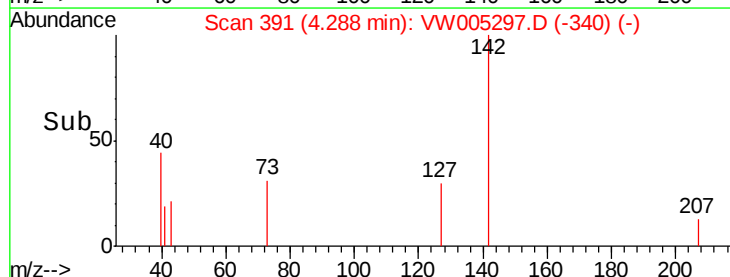
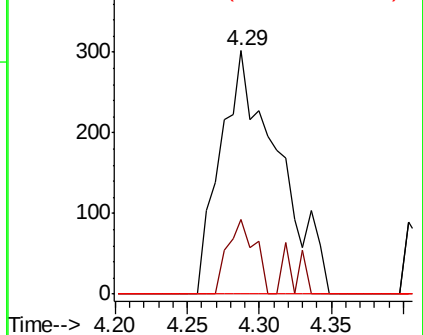
141 0.0 11.4 17.0#

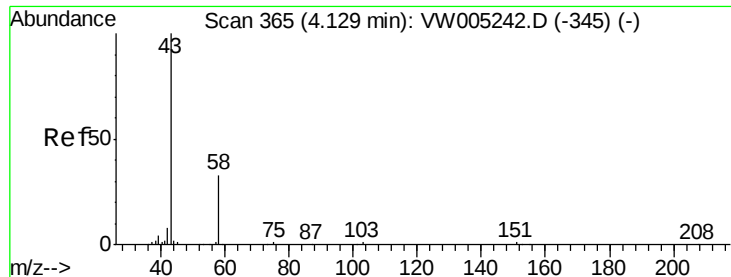


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#16

Acetone

Concen: 17.24 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.00 min

Lab File: VW005297.D

Acq: 12 Sep 2018 02:32

Instrument :

MSVOA_W

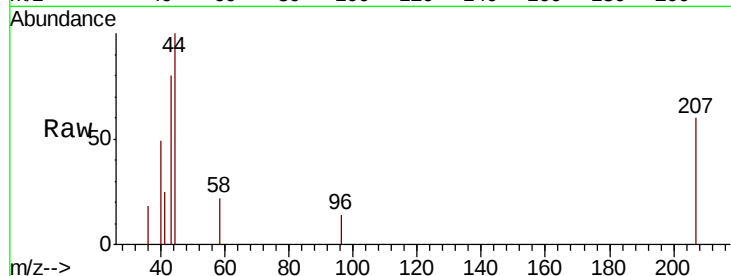
ClientSampleId :

Tot Ion: 43 Resp: 1114

Ion Ratio Lower Upper

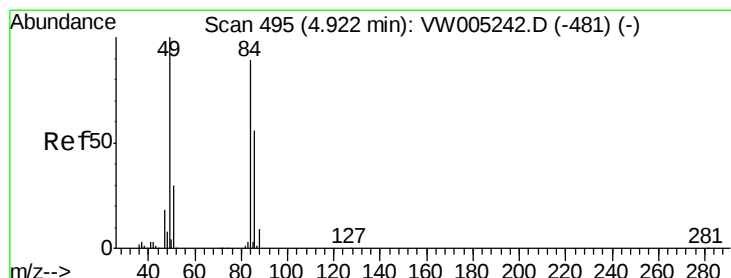
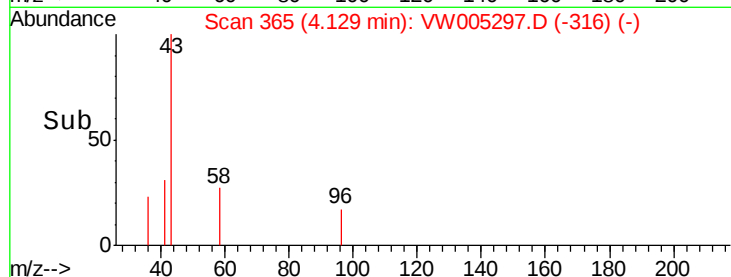
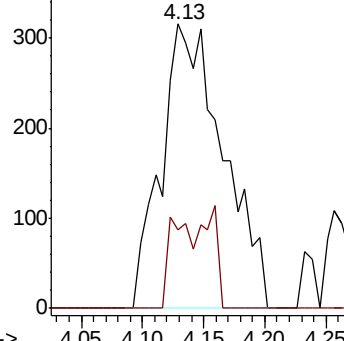
43 100

58 27.2 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW005297.D

Acq: 12 Sep 2018 02:32

Tgt Ion: 84 Resp: 655

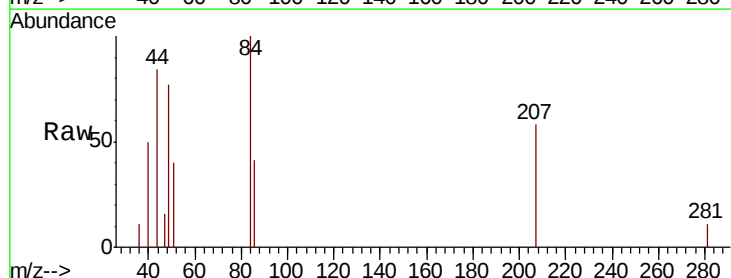
Ion Ratio Lower Upper

84 100

49 77.3 90.3 135.5#

51 40.4 26.9 40.3#

86 40.6 50.8 76.2#

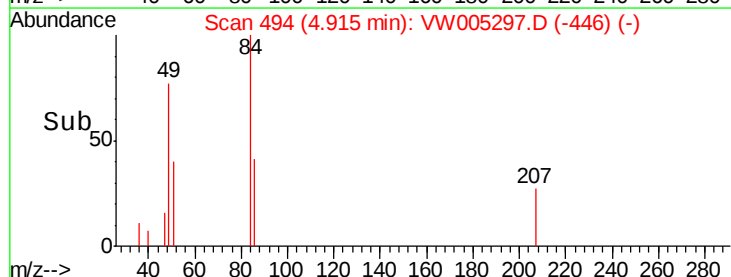
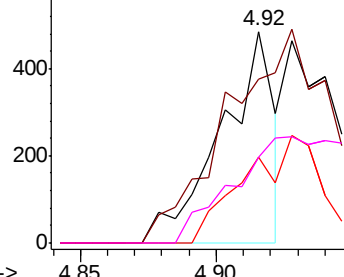


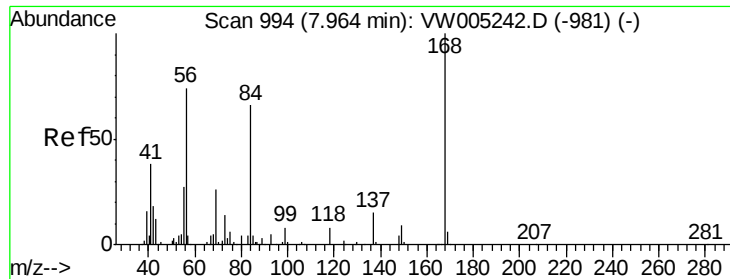
Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

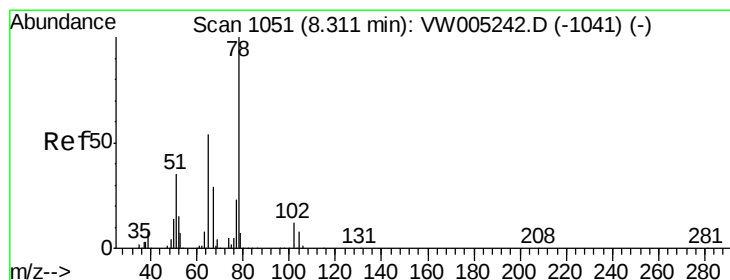
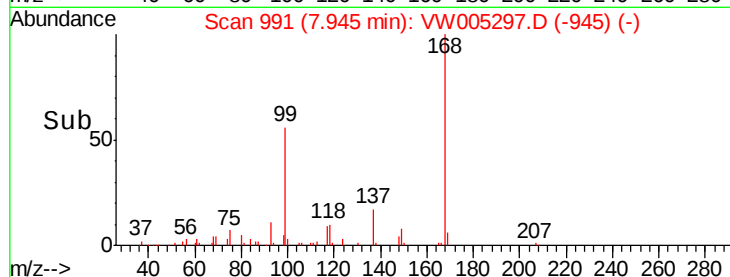
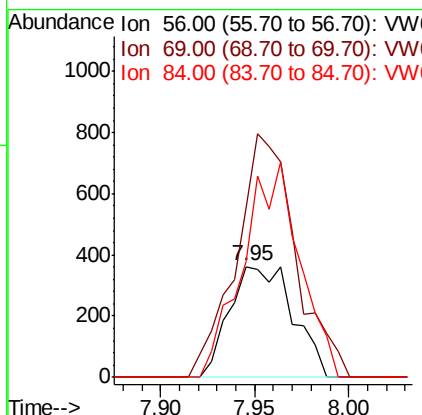
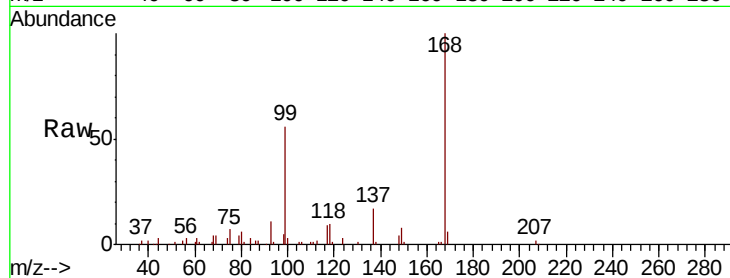




#31
Cyclohexane
Concen: 1.14 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.02 min
Lab File: VW005297.D
Acq: 12 Sep 2018 02:32

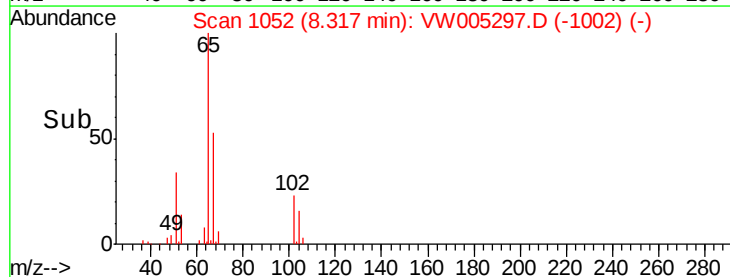
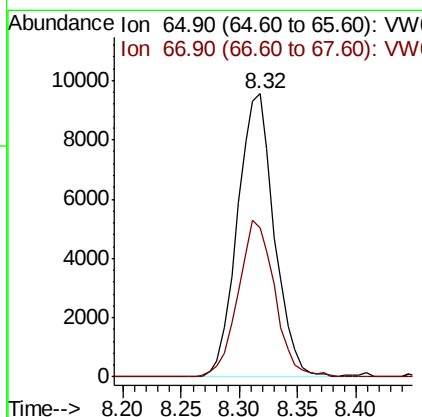
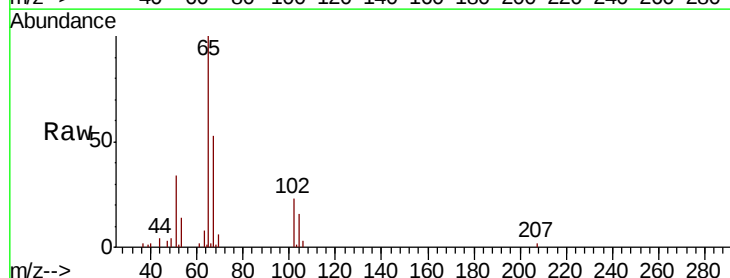
Instrument :
MSVOA_W
ClientSampled :

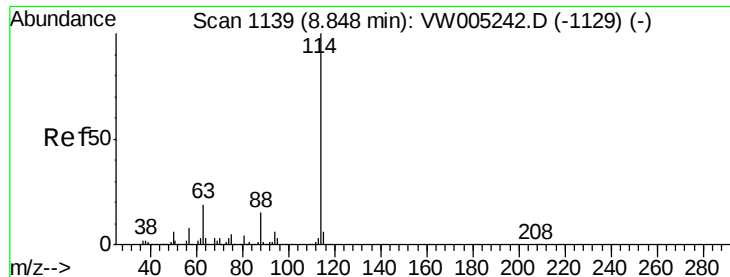
Tot Ion: 56 Resp: 846
Ion Ratio Lower Upper
56 100
69 152.3 27.8 41.8#
84 103.6 72.1 108.1



#33
1,2-Dichloroethane-d4
Concen: 60.50 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. 0.01 min
Lab File: VW005297.D
Acq: 12 Sep 2018 02:32

Tgt Ion: 65 Resp: 21059
Ion Ratio Lower Upper
65 100
67 54.8 0.0 112.2

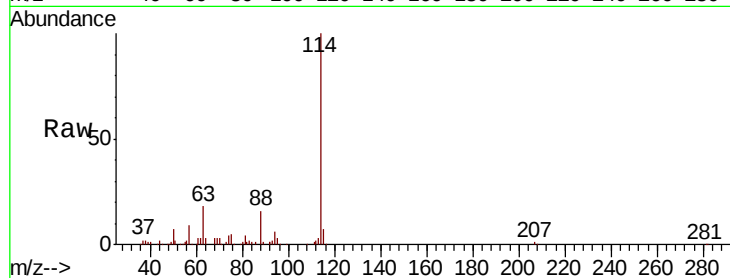




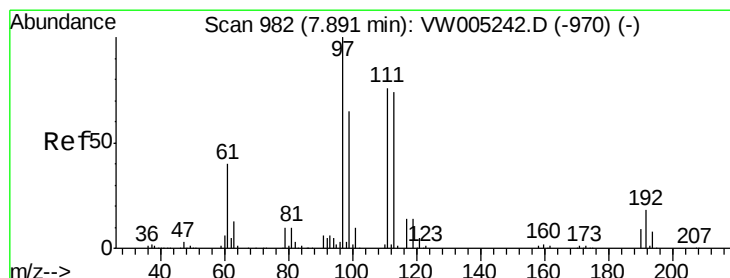
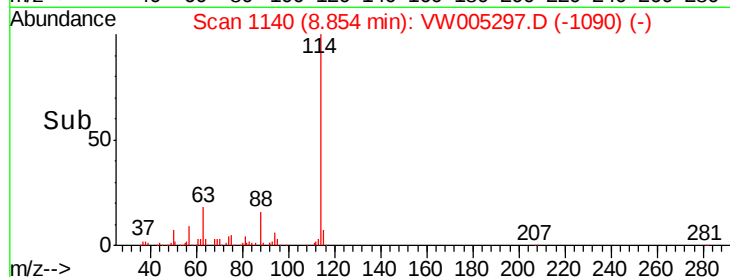
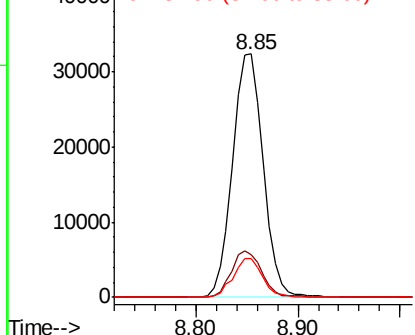
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.85 min Scan# 1140
Delta R.T. 0.01 min
Lab File: VW005297.D
Acq: 12 Sep 2018 02:32

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:114 Resp: 67271
Ion Ratio Lower Upper
114 100
63 17.5 0.0 37.0
88 15.9 0.0 30.4

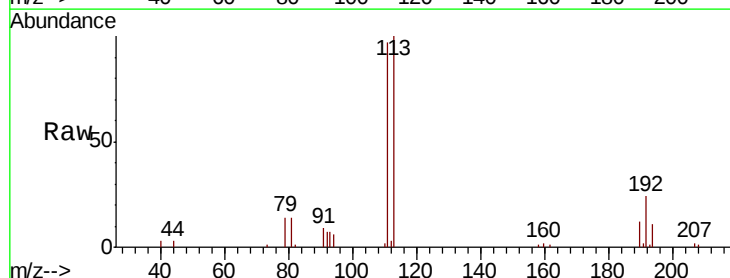


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VW
Ion 87.90 (87.60 to 88.60): VW

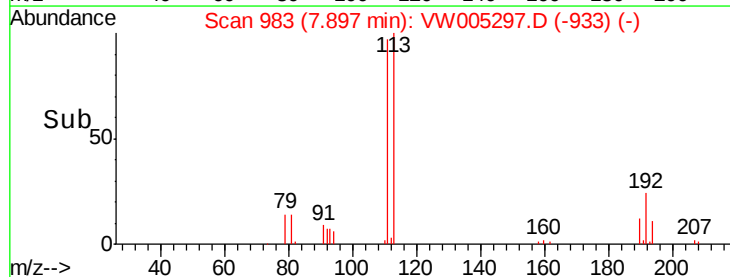
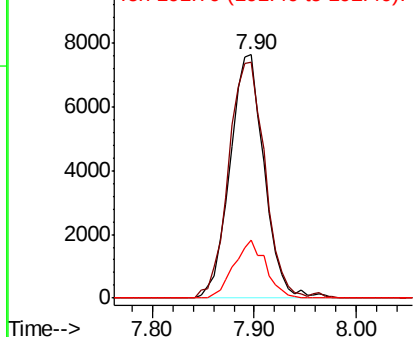


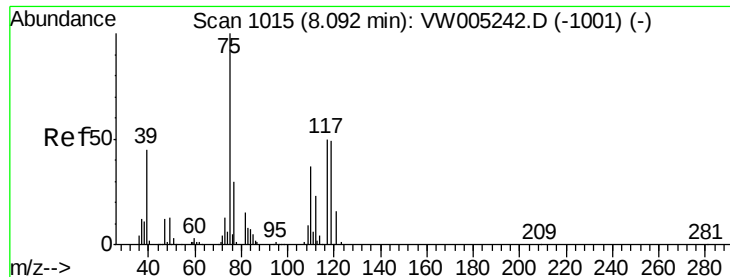
#35
Dibromofluoromethane
Concen: 50.46 ug/l
RT: 7.90 min Scan# 983
Delta R.T. 0.01 min
Lab File: VW005297.D
Acq: 12 Sep 2018 02:32

Tgt Ion:113 Resp: 17780
Ion Ratio Lower Upper
113 100
111 102.2 80.6 121.0
192 22.1 18.3 27.5



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

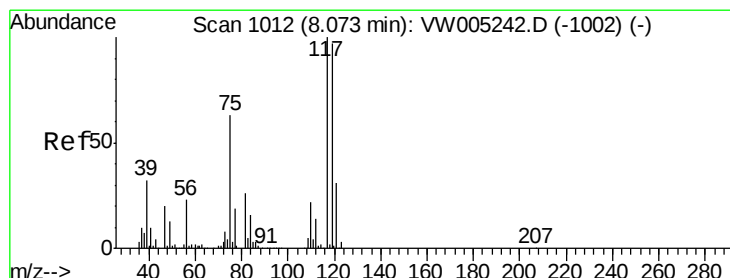
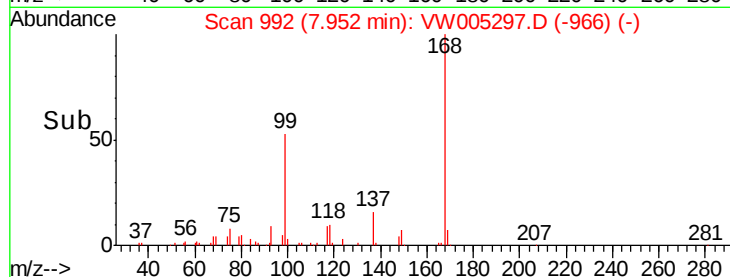
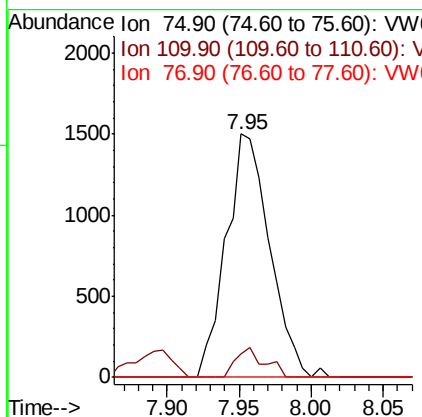
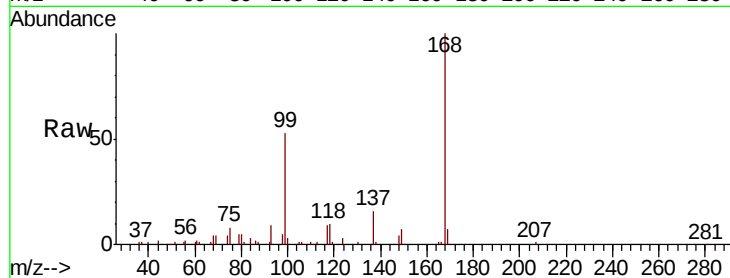




#36
 1,1-Dichloropropene
 Concen: 5.13 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.14 min
 Lab File: VW005297.D
 Acq: 12 Sep 2018 02:32

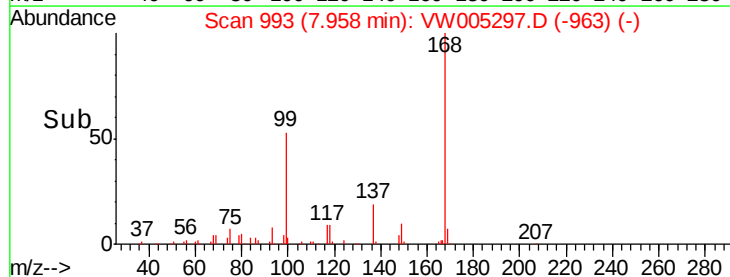
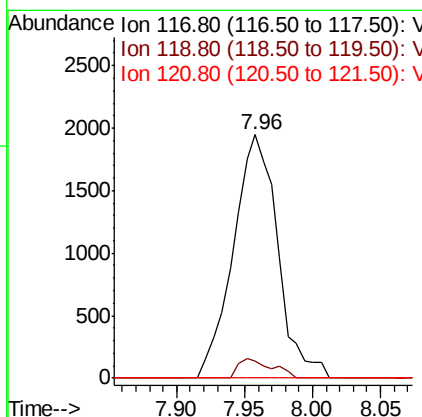
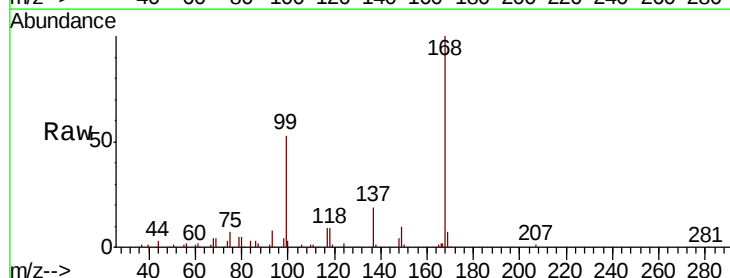
Instrument :
 MSVOA_W
 ClientSampleId :

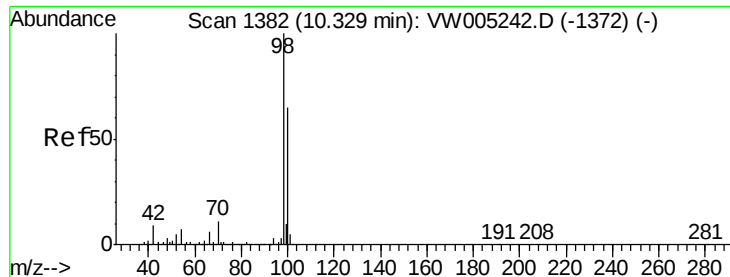
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.8	56.4#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 7.69 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.12 min
 Lab File: VW005297.D
 Acq: 12 Sep 2018 02:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.8	77.5	116.3#
121	0.0	24.7	37.1#





#50

Toluene-d8

Concen: 26.74 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW005297.D

Acq: 12 Sep 2018 02:32

Instrument :

MSVOA_W

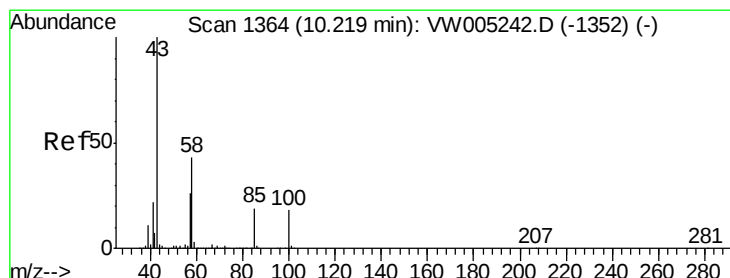
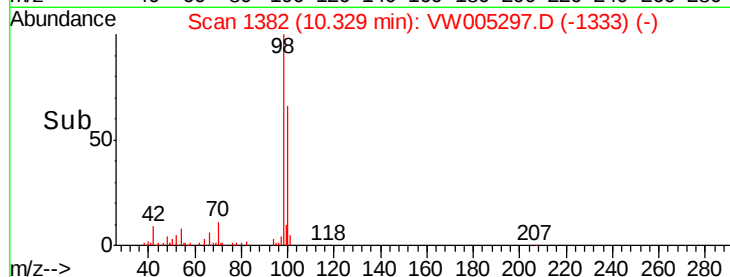
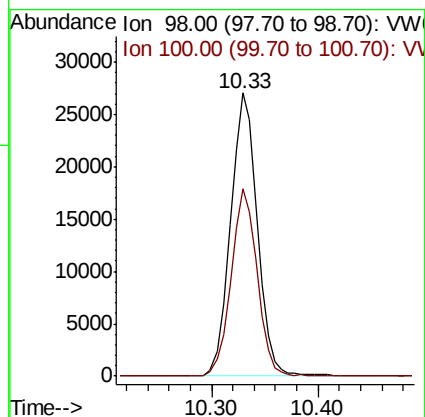
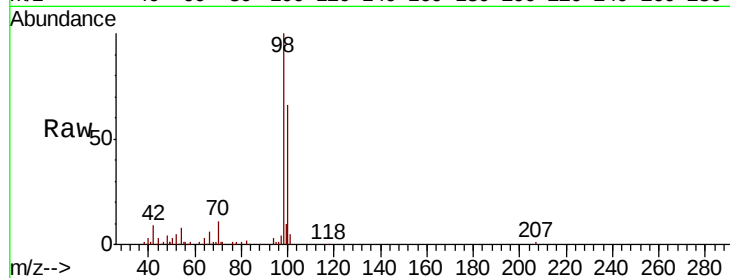
ClientSampleId :

Tot Ion: 98 Resp: 47620

Ion Ratio Lower Upper

98 100

100 64.2 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 2.59 ug/l

RT: 10.48 min Scan# 1406

Delta R.T. 0.26 min

Lab File: VW005297.D

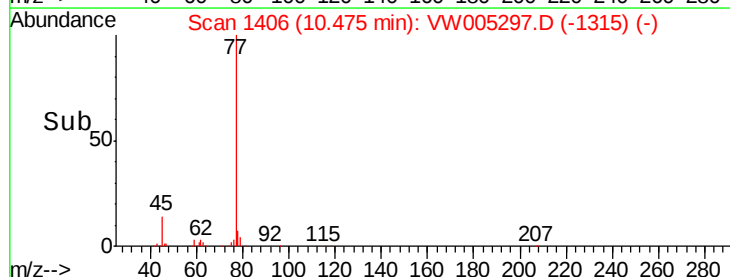
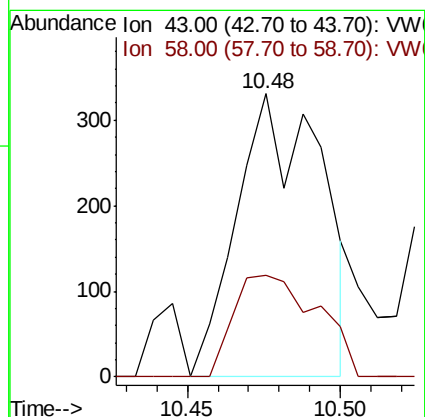
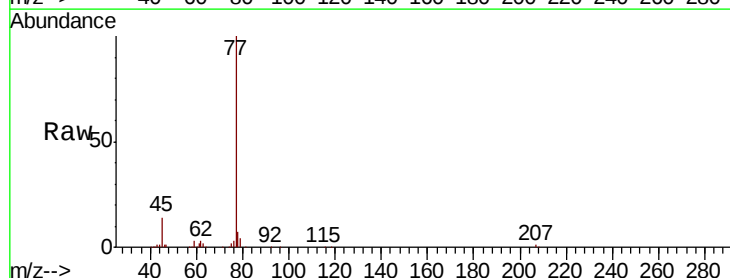
Acq: 12 Sep 2018 02:32

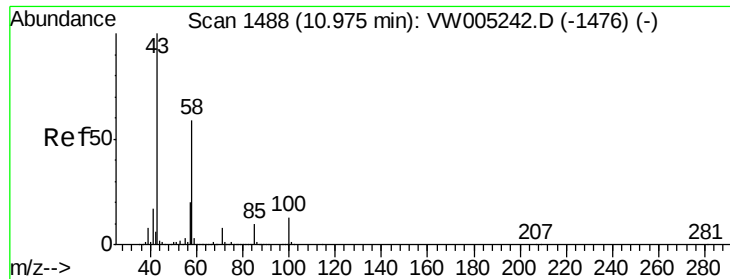
Tgt Ion: 43 Resp: 634

Ion Ratio Lower Upper

43 100

58 35.8 33.8 50.6





#59

2-Hexanone

Concen: 1.12 ug/l

RT: 10.98 min Scan# 1488

Delta R.T. 0.00 min

Lab File: VW005297.D

Acq: 12 Sep 2018 02:32

Instrument :

MSVOA_W

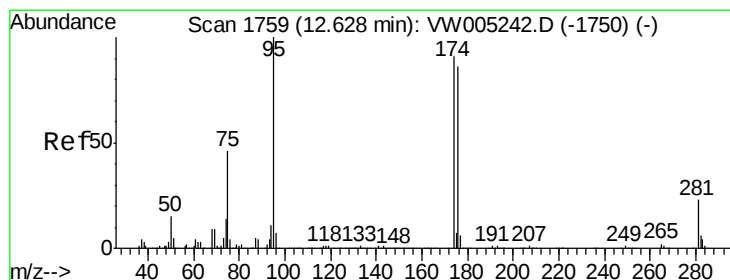
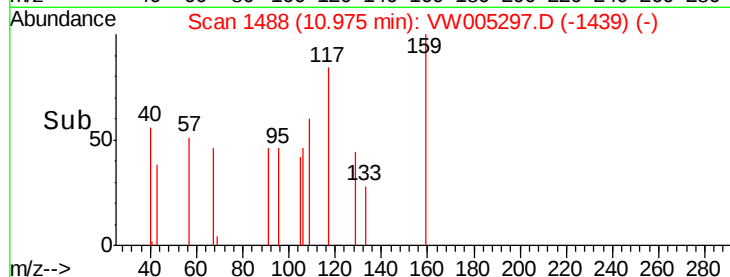
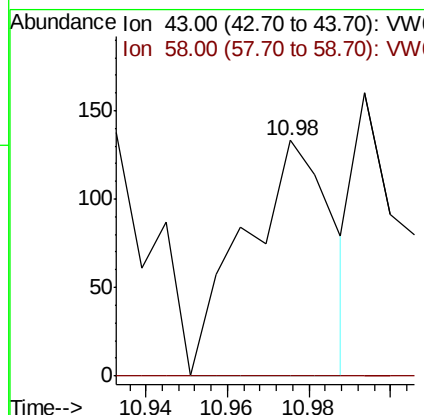
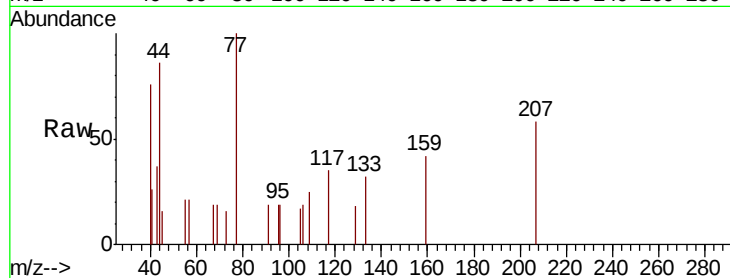
ClientSampled :

Tot Ion: 43 Resp: 198

Ion Ratio Lower Upper

43 100

58 0.0 29.3 87.9#



#62

4-Bromofluorobenzene

Concen: 22.58 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. 0.00 min

Lab File: VW005297.D

Acq: 12 Sep 2018 02:32

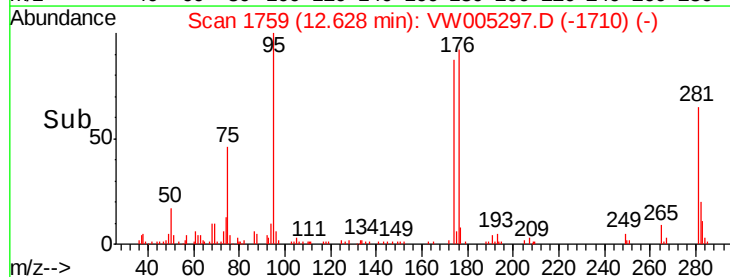
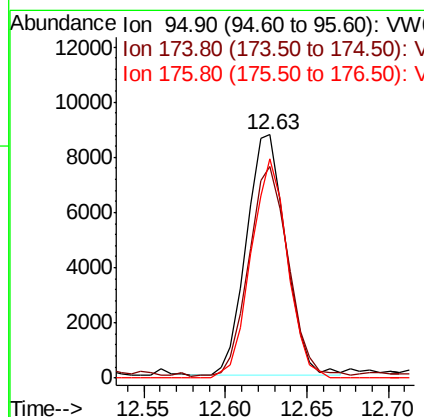
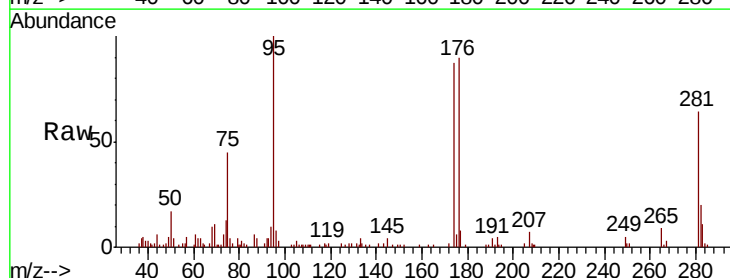
Tgt Ion: 95 Resp: 14704

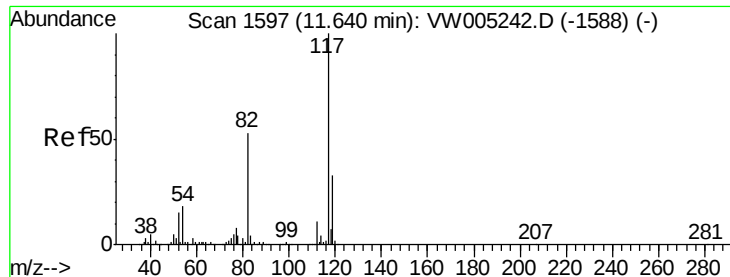
Ion Ratio Lower Upper

95 100

174 86.5 0.0 174.6

176 84.3 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.64 min Scan# 1597

Delta R.T. 0.00 min

Lab File: VW005297.D

Acq: 12 Sep 2018 02:32

Instrument :

MSVOA_W

ClientSampleId :

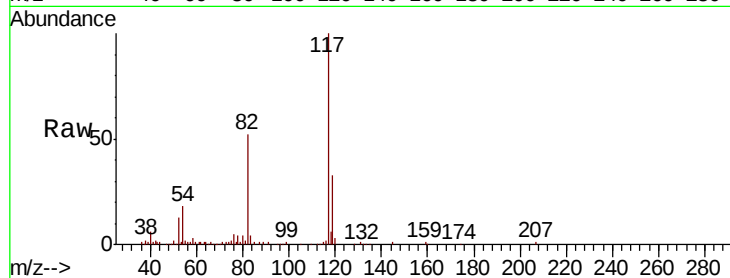
Tot Ion:117 Resp: 51760

Ion Ratio Lower Upper

117 100

82 51.7 42.6 63.8

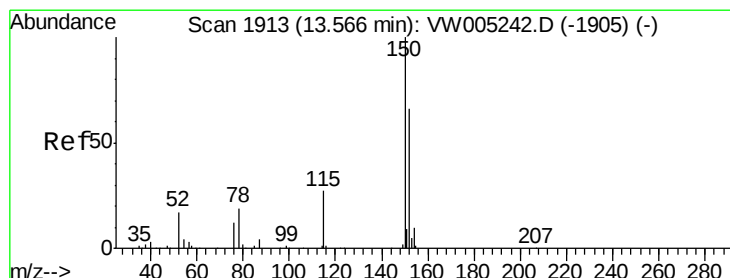
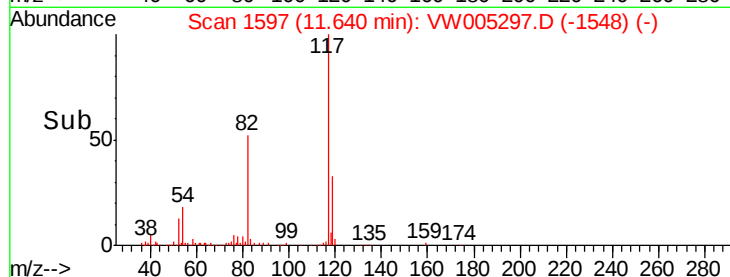
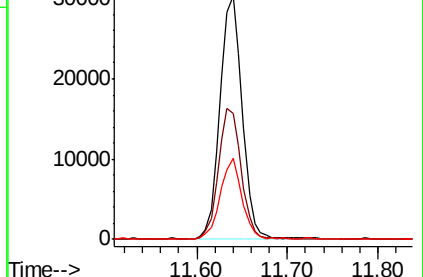
119 33.2 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VW005297.D

Acq: 12 Sep 2018 02:32

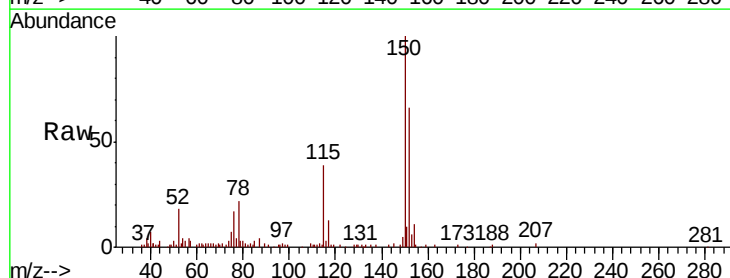
Tgt Ion:152 Resp: 15116

Ion Ratio Lower Upper

152 100

115 55.4 27.5 82.4

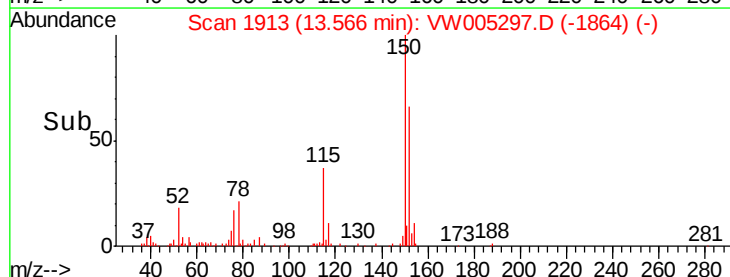
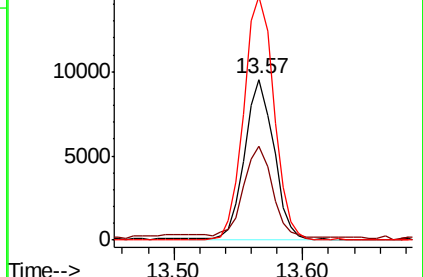
150 155.0 0.0 347.4

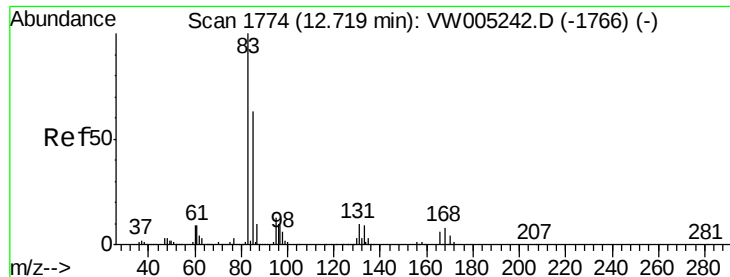


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: 4.06 ug/l

RT: 12.74 min Scan# 1777

Delta R.T. 0.02 min

Lab File: VW005297.D

Acq: 12 Sep 2018 02:32

Instrument :

MSVOA_W

ClientSampleId :

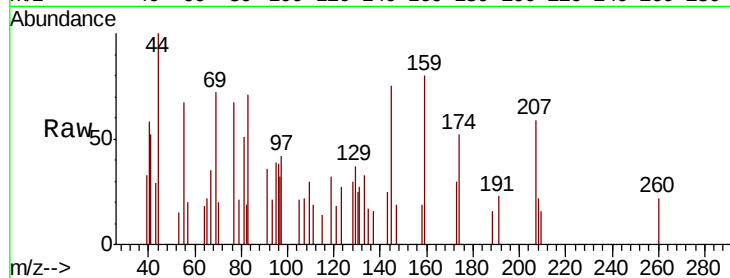
Tot Ion: 83 Resp: 651

Ion Ratio Lower Upper

83 100

131 33.2 5.5 16.4#

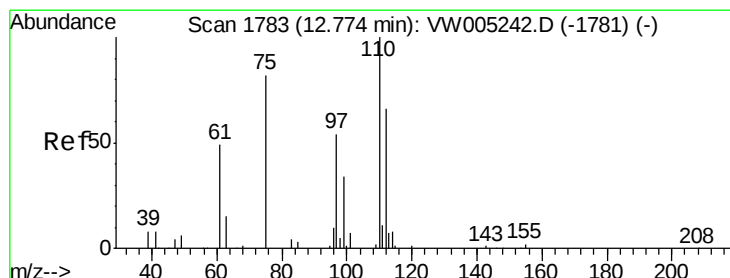
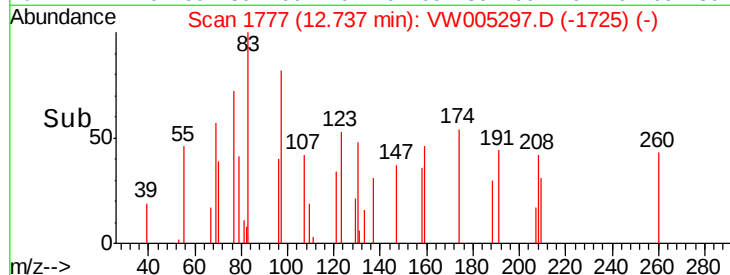
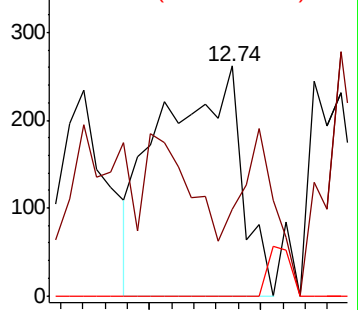
85 6.1 31.6 95.0#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 2.17 ug/l

RT: 12.76 min Scan# 1780

Delta R.T. -0.02 min

Lab File: VW005297.D

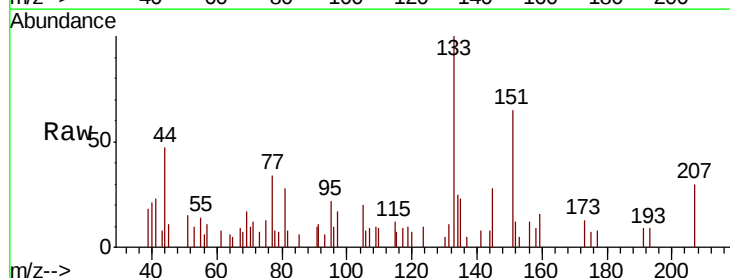
Acq: 12 Sep 2018 02:32

Tgt Ion: 75 Resp: 252

Ion Ratio Lower Upper

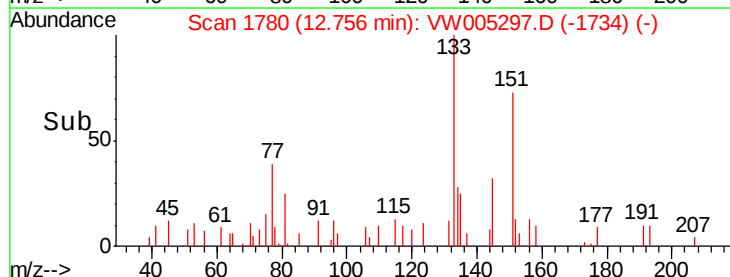
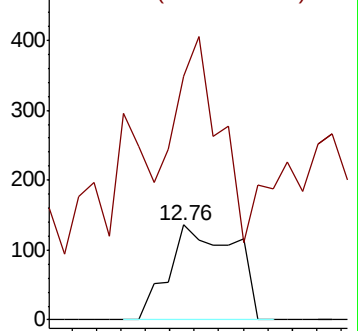
75 100

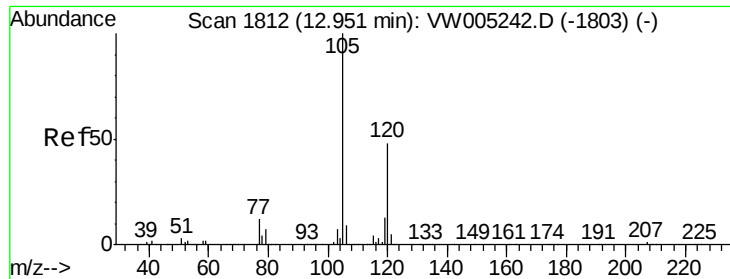
77 142.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#80

1,3,5-Trimethylbenzene

Concen: 1.13 ug/l

RT: 12.96 min Scan# 1814

Delta R.T. 0.01 min

Lab File: VW005297.D

Acq: 12 Sep 2018 02:32

Instrument :

MSVOA_W

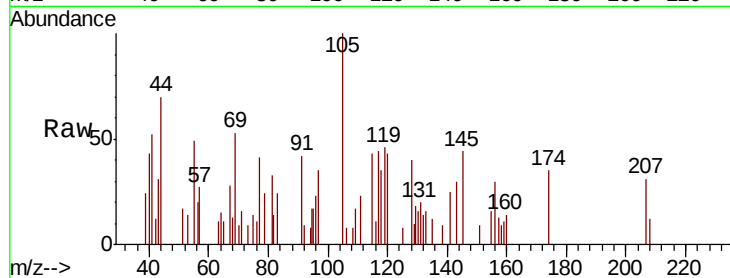
ClientSampleId :

Tot Ion:105 Resp: 1025

Ion Ratio Lower Upper

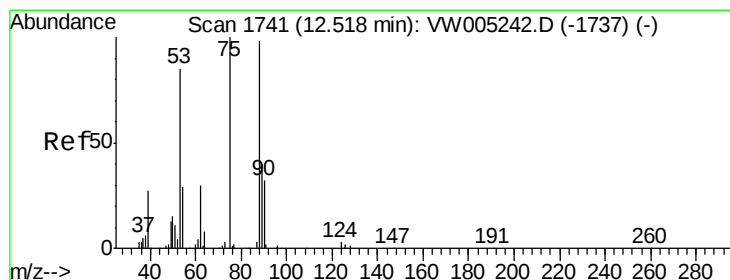
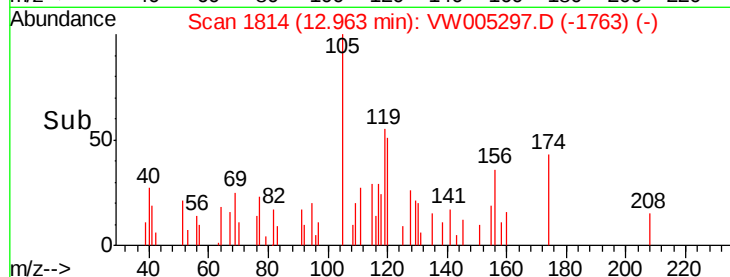
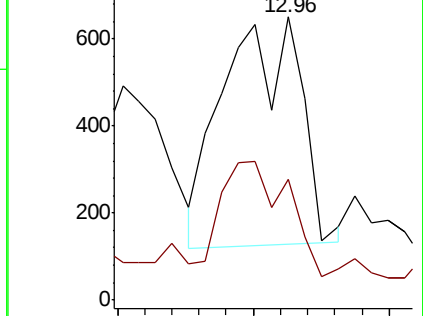
105 100

120 72.5 24.4 73.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 139.44 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. 0.11 min

Lab File: VW005297.D

Acq: 12 Sep 2018 02:32

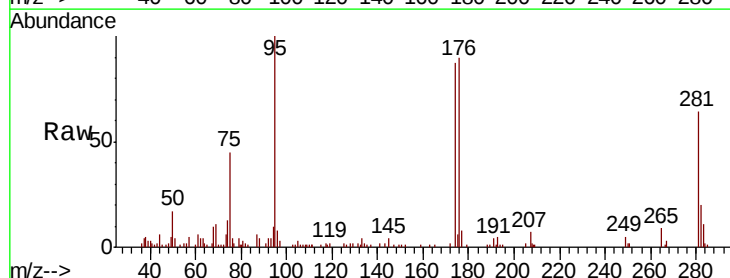
Tgt Ion: 75 Resp: 6913

Ion Ratio Lower Upper

75 100

53 0.5 67.0 100.6#

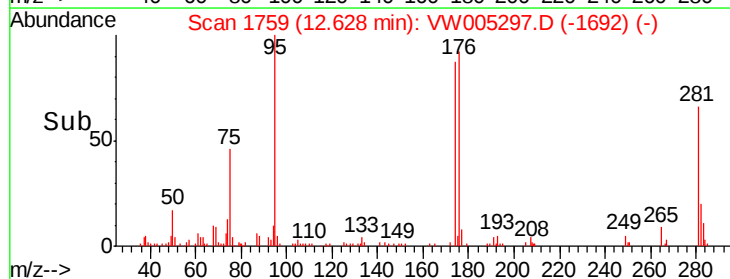
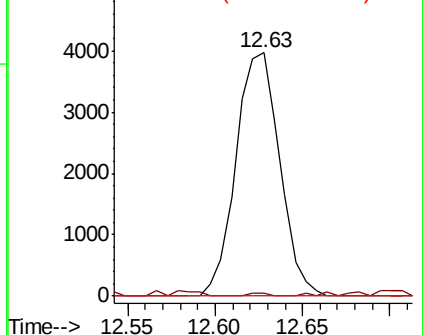
89 0.0 37.0 55.4#

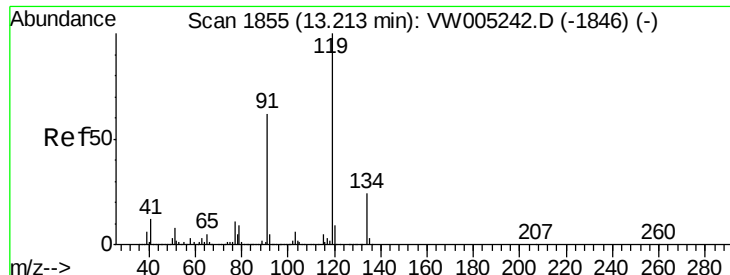


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#83

tert-Butylbenzene

Concen: 1.00 ug/l

RT: 13.21 min Scan# 1855

Delta R.T. 0.00 min

Lab File: VW005297.D

Acq: 12 Sep 2018 02:32

Instrument :

MSVOA_W

ClientSampled :

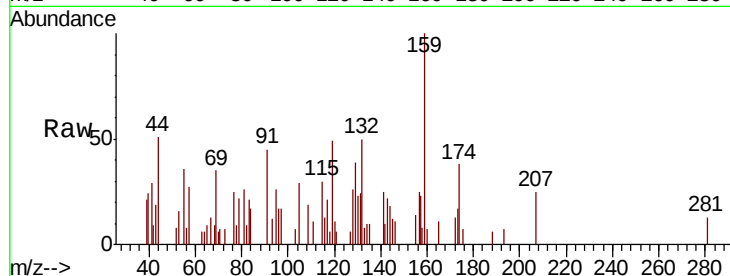
Tot Ion:119 Resp: 797

Ion Ratio Lower Upper

119 100

91 67.9 31.7 95.1

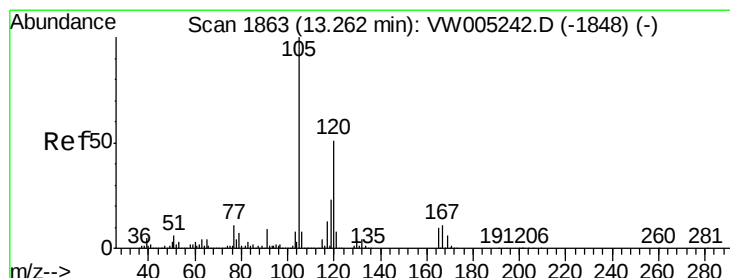
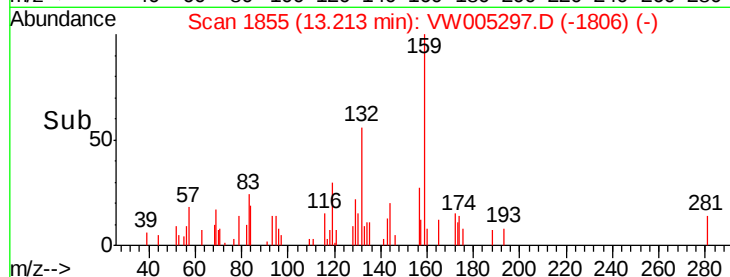
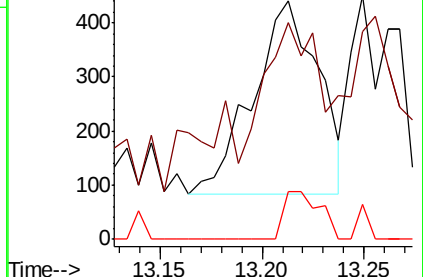
134 13.4 13.0 38.9



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 3.39 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. -0.01 min

Lab File: VW005297.D

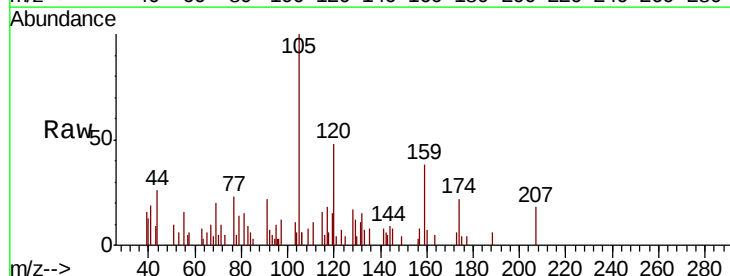
Acq: 12 Sep 2018 02:32

Tgt Ion:105 Resp: 3097

Ion Ratio Lower Upper

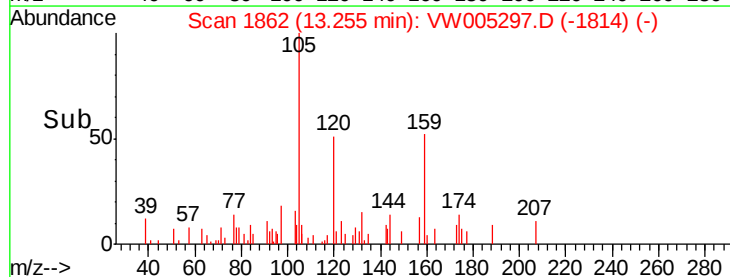
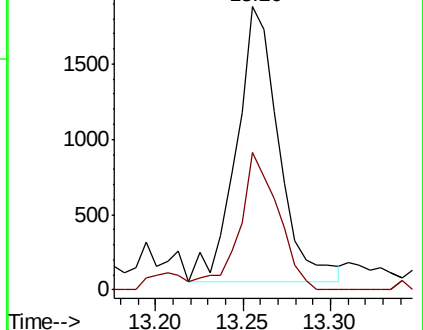
105 100

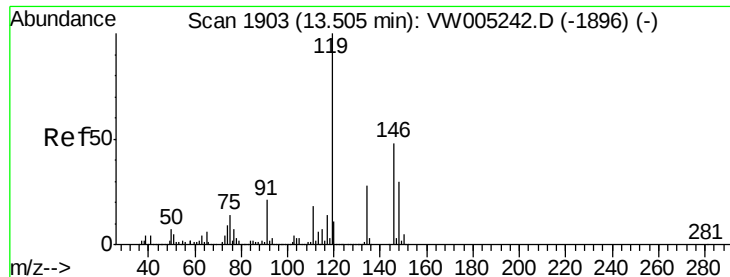
120 45.9 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

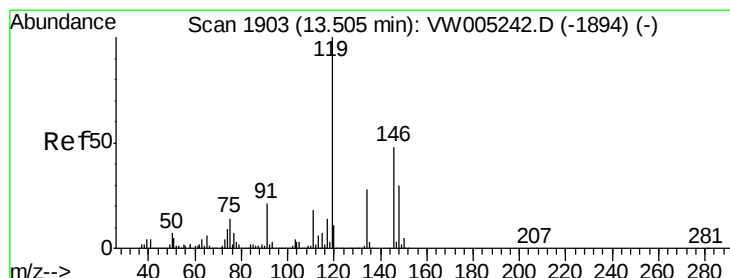
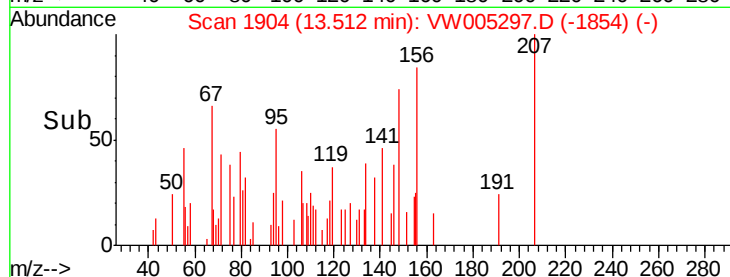
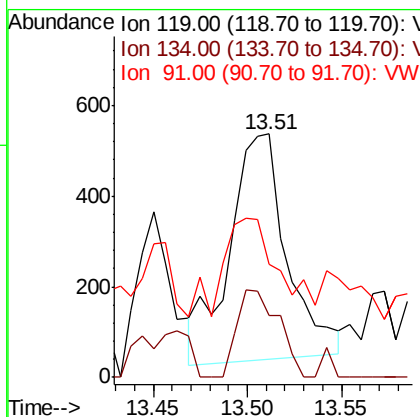
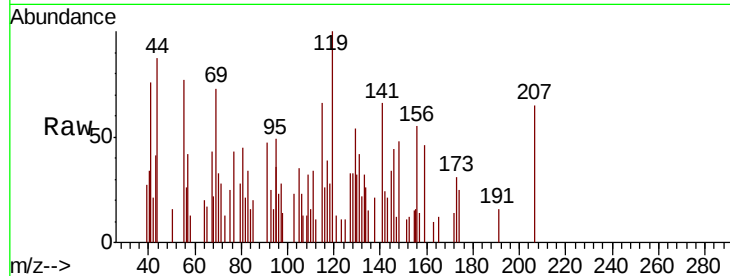




#86
 p-Isopropyltoluene
 Concen: 1.05 ug/l
 RT: 13.51 min Scan# 1904
 Delta R.T. 0.01 min
 Lab File: VW005297.D
 Acq: 12 Sep 2018 02:32

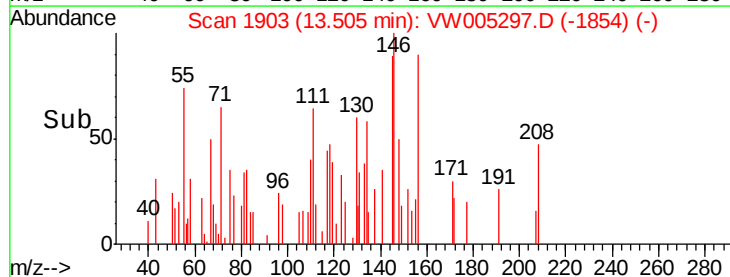
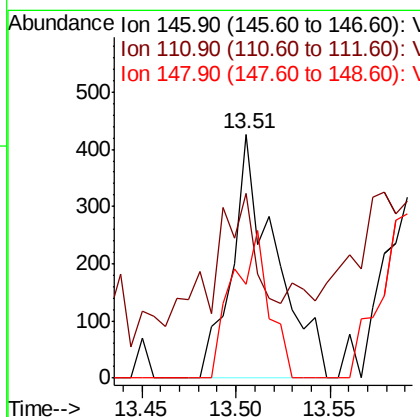
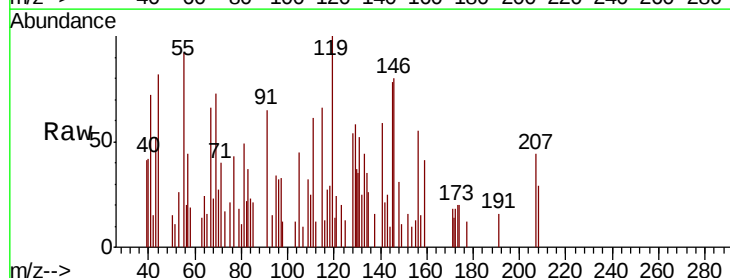
Instrument :
 MSVOA_W
 ClientSampled :

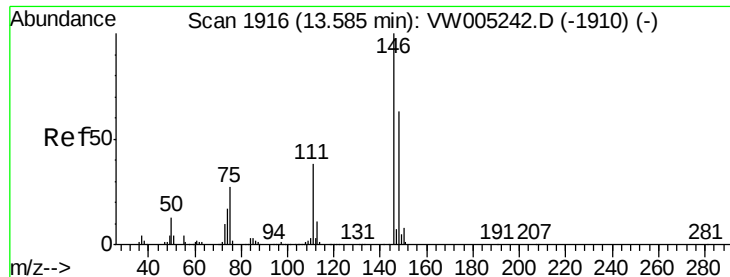
Tot Ion:119 Resp: 1063
 Ion Ratio Lower Upper
 119 100
 134 27.8 13.2 39.5
 91 41.3 10.7 32.1#



#87
 1,3-Dichlorobenzene
 Concen: 1.28 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. 0.00 min
 Lab File: VW005297.D
 Acq: 12 Sep 2018 02:32

Tgt Ion:146 Resp: 676
 Ion Ratio Lower Upper
 146 100
 111 78.4 18.8 56.3#
 148 50.9 31.6 94.8





#88

1,4-Dichlorobenzene

Concen: 1.30 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. -0.08 min

Lab File: VW005297.D

Acq: 12 Sep 2018 02:32

Instrument :

MSVOA_W

ClientSampleId :

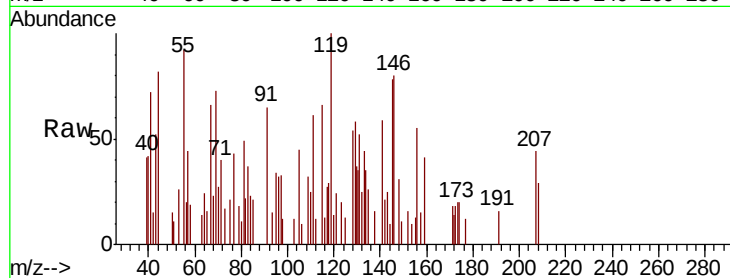
Tot Ion:146 Resp: 676

Ion Ratio Lower Upper

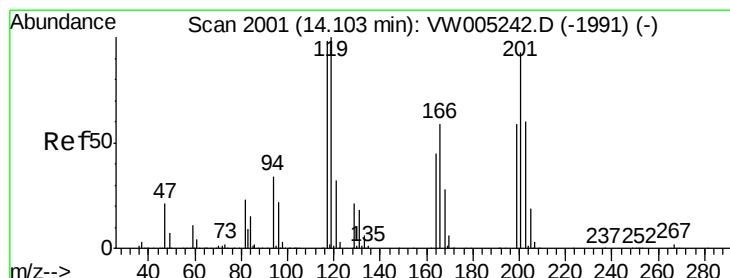
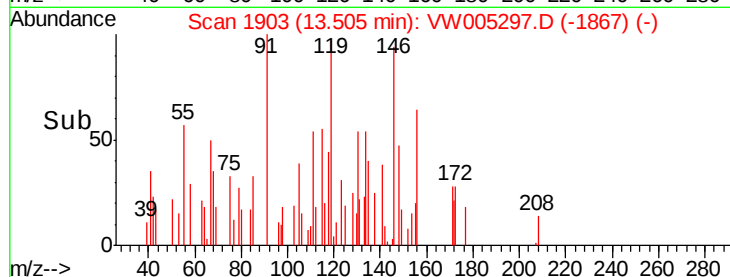
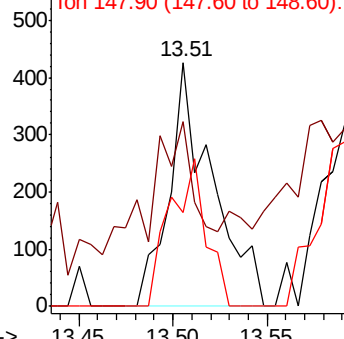
146 100

111 56.1 19.1 57.3

148 50.9 32.3 96.9



Abundance Ion 145.90 (145.60 to 146.60): V



#90

Hexachloroethane

Concen: 1.97 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.00 min

Lab File: VW005297.D

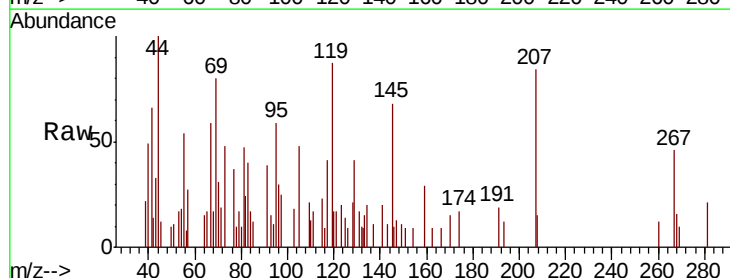
Acq: 12 Sep 2018 02:32

Tgt Ion:117 Resp: 319

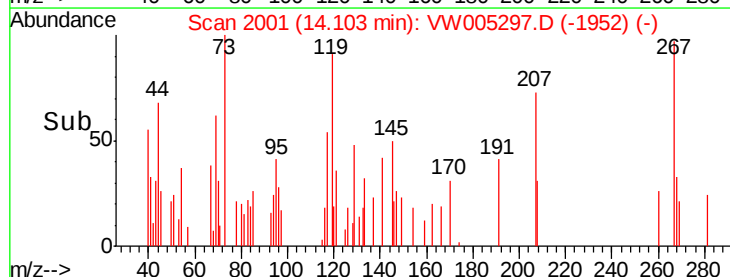
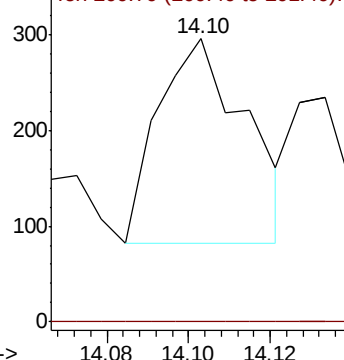
Ion Ratio Lower Upper

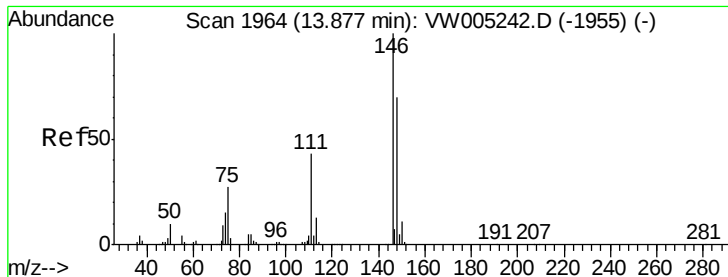
117 100

201 0.0 44.0 132.1#



Abundance Ion 116.80 (116.50 to 117.50): V

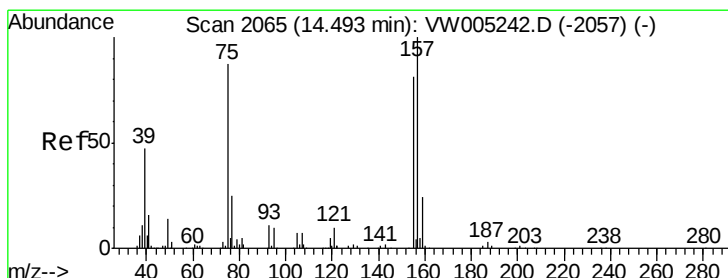
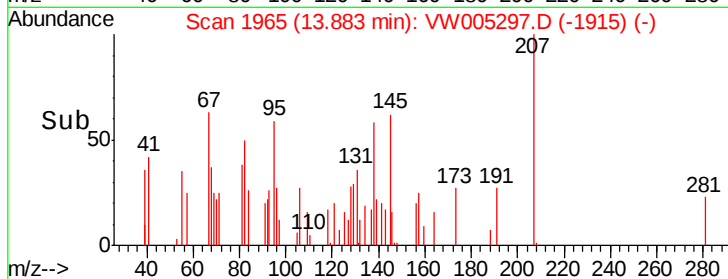
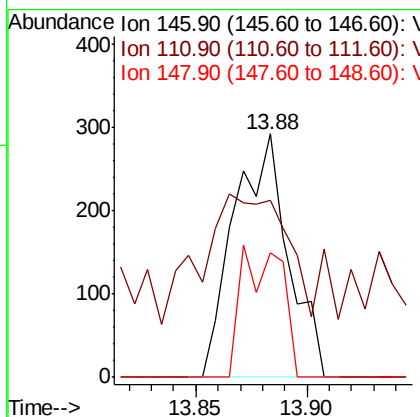
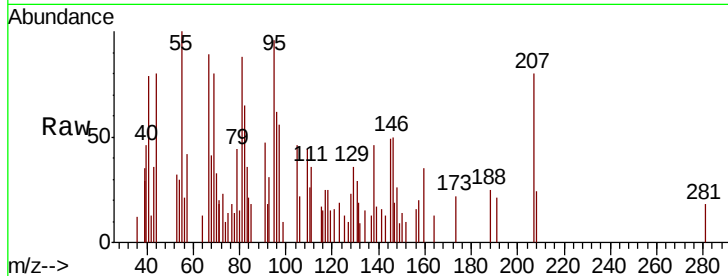




#91
 1,2-Dichlorobenzene
 Concen: 1.06 ug/l
 RT: 13.88 min Scan# 1965
 Delta R.T. 0.01 min
 Lab File: VW005297.D
 Acq: 12 Sep 2018 02:32

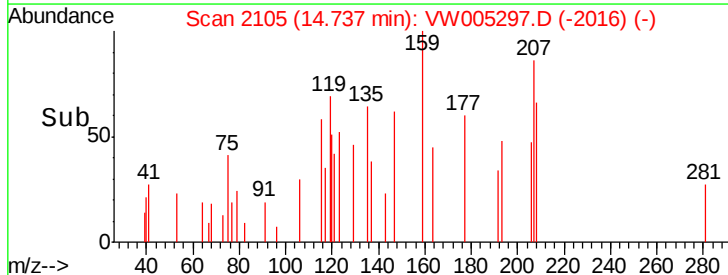
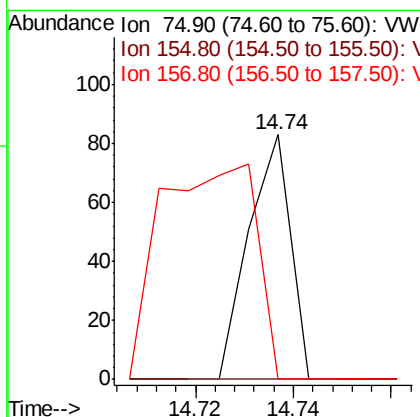
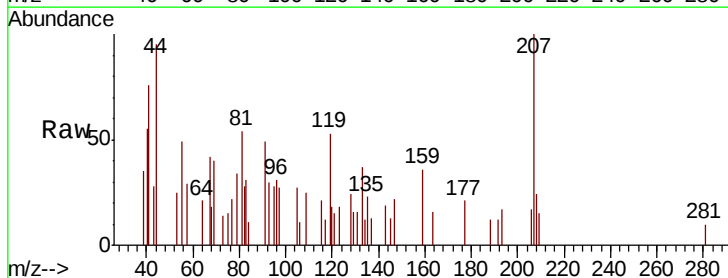
Instrument :
 MSVOA_W
 ClientSampleId :

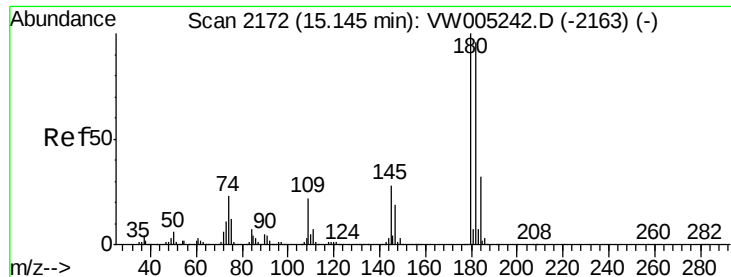
Tot Ion	Ratio	Lower	Upper
146	100		
111	82.2	20.5	61.5#
148	40.5	32.7	98.1



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.84 ug/l
 RT: 14.74 min Scan# 2105
 Delta R.T. 0.24 min
 Lab File: VW005297.D
 Acq: 12 Sep 2018 02:32

Tgt Ion	Ratio	Lower	Upper
75	100		
155	0.0	47.4	142.2#
157	202.0	59.4	178.2#

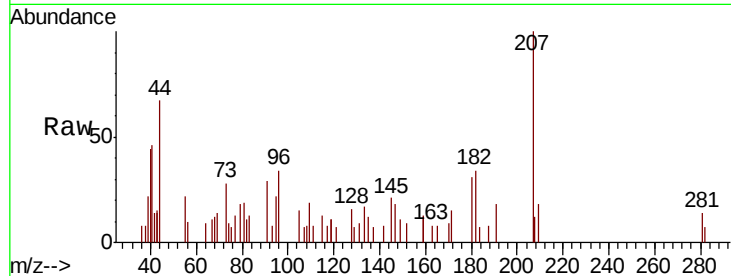




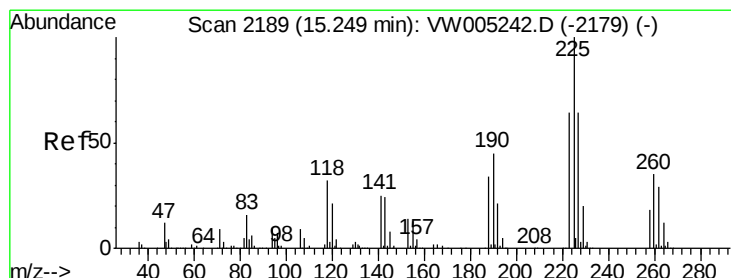
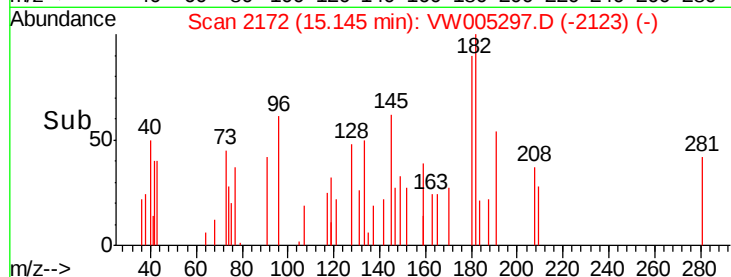
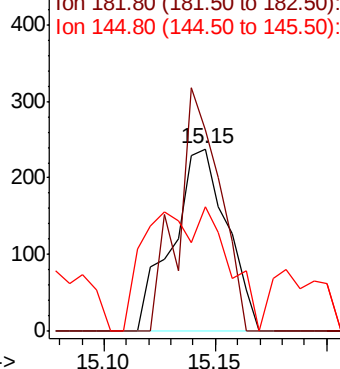
#93
 1,2,4-Trichlorobenzene
 Concen: 1.23 ug/l
 RT: 15.15 min Scan# 2172
 Delta R.T. 0.00 min
 Lab File: VW005297.D
 Acq: 12 Sep 2018 02:32

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion:180 Resp: 405
 Ion Ratio Lower Upper
 180 100
 182 102.0 48.1 144.4
 145 59.5 14.5 43.6#

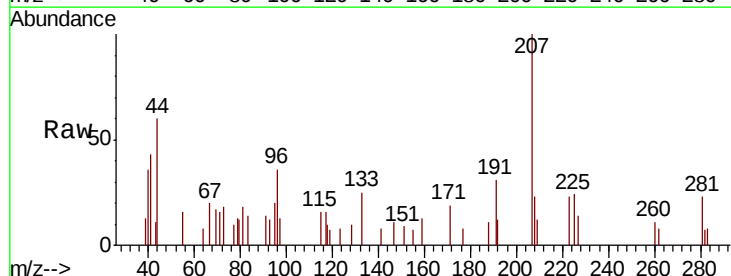


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

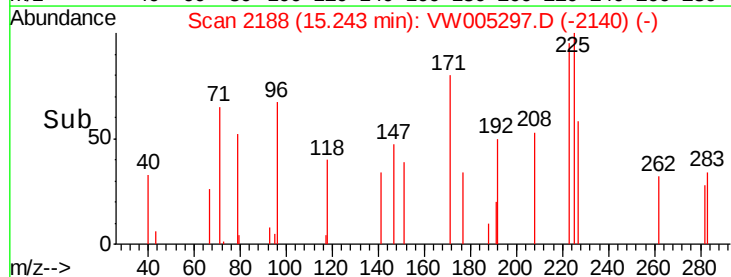
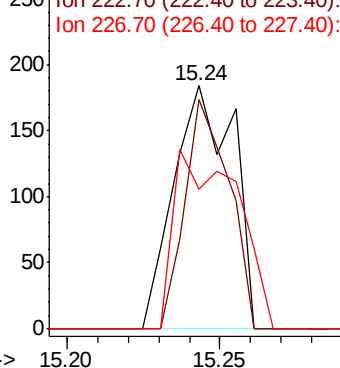


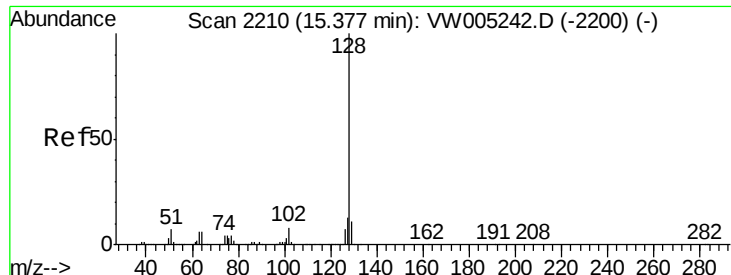
#94
 Hexachlorobutadiene
 Concen: 1.18 ug/l
 RT: 15.24 min Scan# 2188
 Delta R.T. -0.01 min
 Lab File: VW005297.D
 Acq: 12 Sep 2018 02:32

Tgt Ion:225 Resp: 248
 Ion Ratio Lower Upper
 225 100
 223 70.2 31.4 94.2
 227 78.6 32.0 96.0



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V

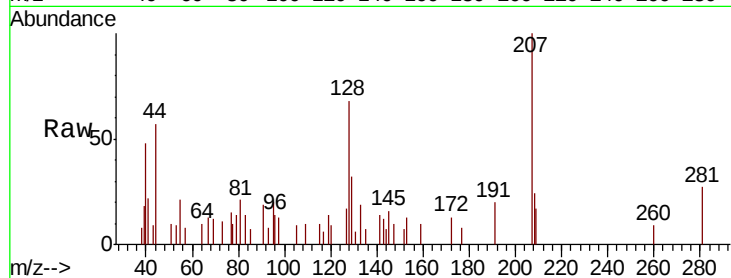




#95
 Naphthalene
 Concen: 2.37 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. -0.01 min
 Lab File: VW005297.D
 Acq: 12 Sep 2018 02:32

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.9	10.3	15.5
129	0.0	8.8	13.2



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

