

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW012320\
 Data File : VW014724.D
 Acq On : 23 Jan 2020 14:29
 Operator : SY/VA
 Sample : L1205-16RE
 Misc : 9.46G/5ML/MSVOA W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jan 24 04:11:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010320S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 03 16:07:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	54439	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	83022	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	64918	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	13181	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	28707	60.31	ug/l	0.00
Spiked Amount			Recovery	=	120.62%	
35) Dibromofluoromethane	7.88	113	25949	54.69	ug/l	0.00
Spiked Amount			Recovery	=	109.38%	
50) Toluene-d8	10.32	98	65224	32.94	ug/l	0.00
Spiked Amount			Recovery	=	65.88%	
62) 4-Bromofluorobenzene	12.62	95	16961	25.25	ug/l	0.00
Spiked Amount			Recovery	=	50.50%	

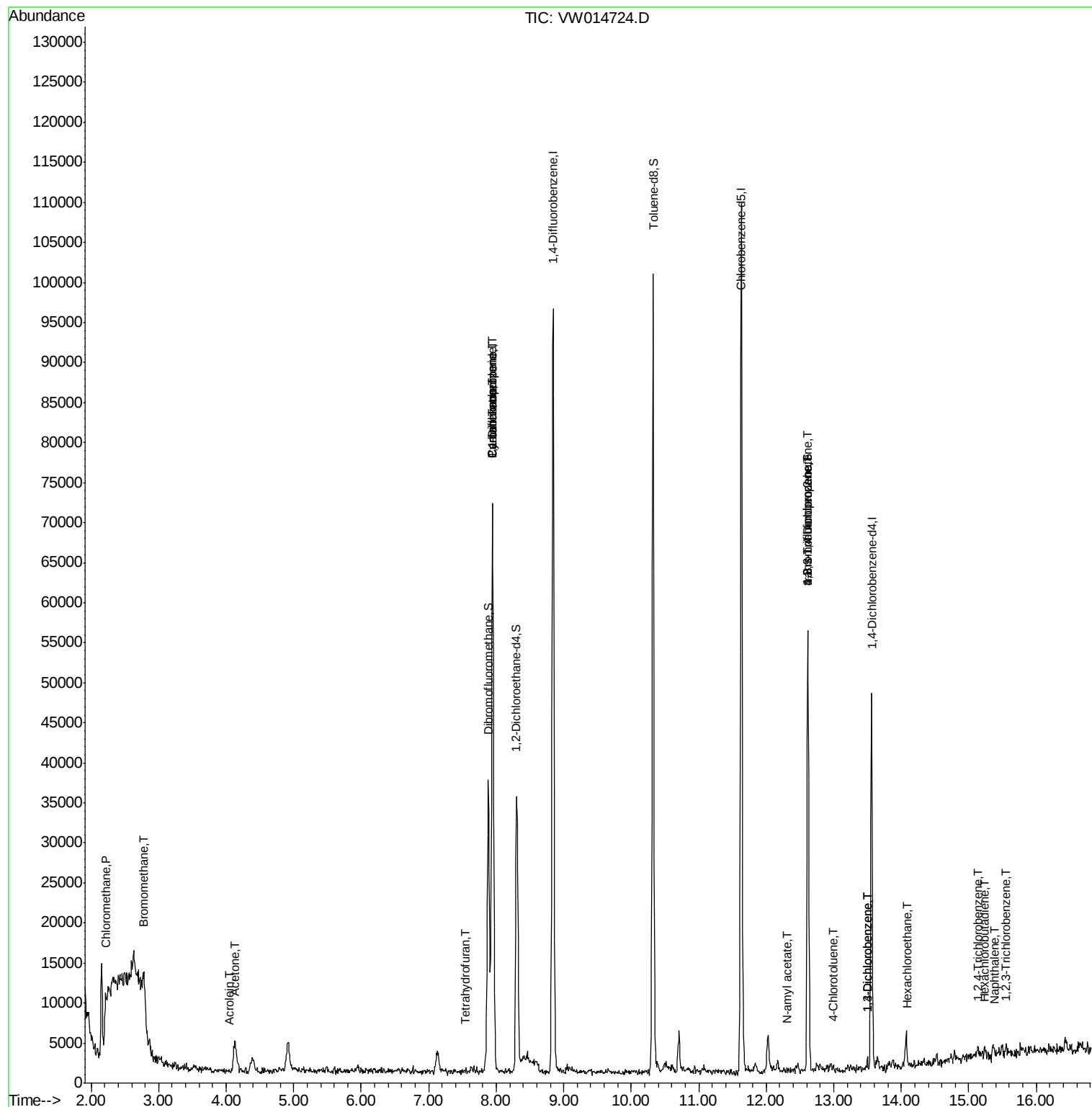
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	710	1.887	ug/l #	79
5) Bromomethane	2.78	94	349	1.021	ug/l #	60
11) Tert butyl alcohol	5.15	59	141	Below Cal	#	73
13) Acrolein	4.04	56	62	1.492	ug/l #	71
16) Acetone	4.14	43	7394	55.016	ug/l	93
29) Tetrahydrofuran	7.54	42	218	2.040	ug/l #	48
31) Cyclohexane	7.95	56	1439	1.417	ug/l #	28
36) 1,1-Dichloropropene	7.95	75	4414	5.515	ug/l #	49
38) Carbon Tetrachloride	7.95	117	5216	7.512	ug/l #	20
74) N-amyl acetate	12.31	43	235	1.084	ug/l #	40
76) 1,2,3-Trichloropropane	12.62	75	8919	71.567	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	8919	159.454	ug/l #	14
82) 4-Chlorotoluene	12.99	91	723	1.075	ug/l #	67
87) 1,3-Dichlorobenzene	13.50	146	551	1.261	ug/l	75
88) 1,4-Dichlorobenzene	13.50	146	551	1.278	ug/l	76
90) Hexachloroethane	14.09	117	202	1.289	ug/l	69
93) 1,2,4-Trichlorobenzene	15.14	180	447	1.724	ug/l #	81
94) Hexachlorobutadiene	15.24	225	321	1.848	ug/l #	63
95) Naphthalene	15.37	128	1303	2.947	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.55	180	329	1.456	ug/l	68

(#) = 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# 991

Delta R.T. 0.00 min

Lab File: VW014724.D

Acq: 23 Jan 2020 14:29

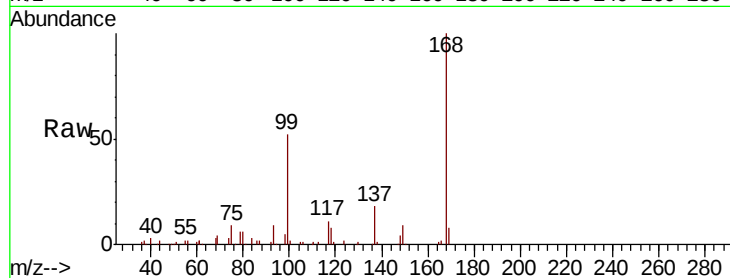
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 54439

Ion Ratio Lower Upper

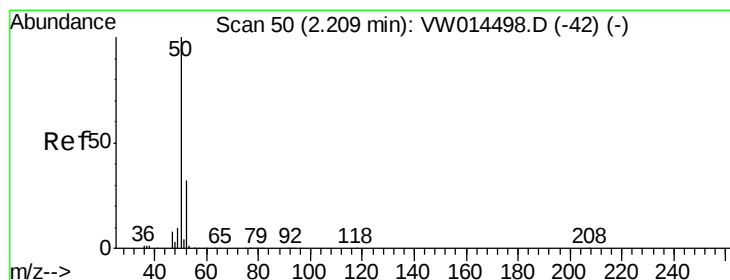
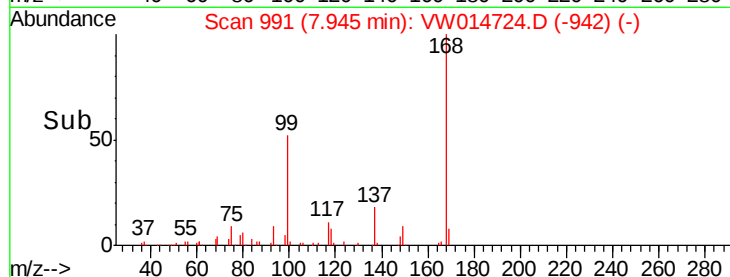
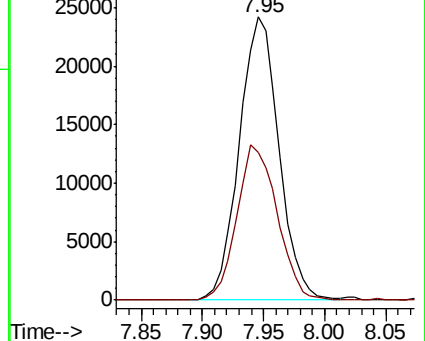
168 100

99 52.2 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: 1.887 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW014724.D

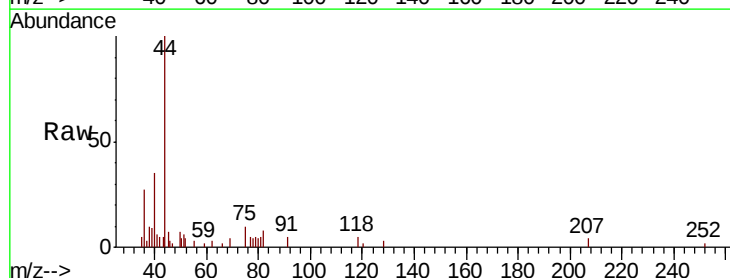
Acq: 23 Jan 2020 14:29

Tgt Ion: 50 Resp: 710

Ion Ratio Lower Upper

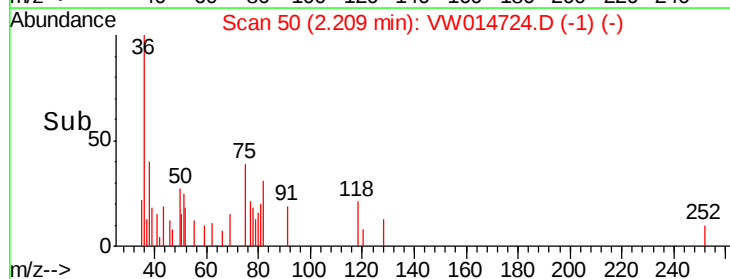
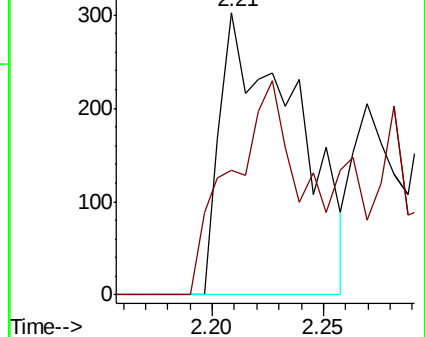
50 100

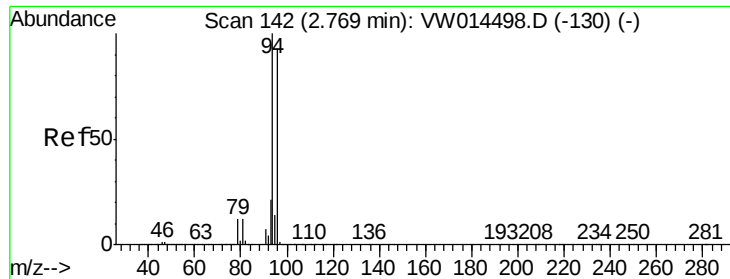
52 44.2 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW





#5

Bromomethane

Concen: 1.021 ug/l

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW014724.D

Acq: 23 Jan 2020 14:29

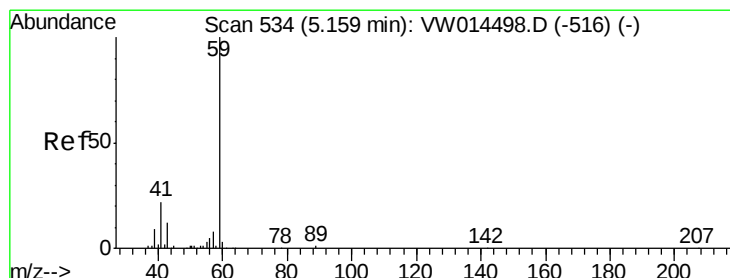
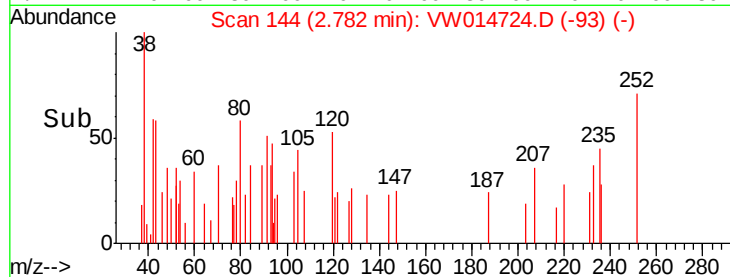
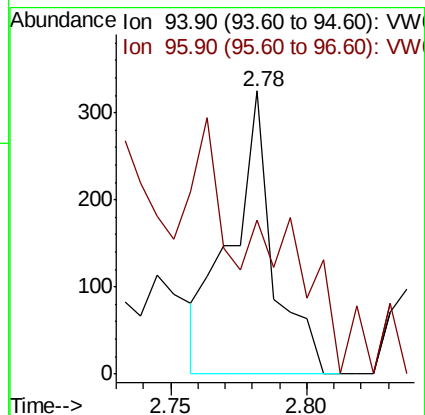
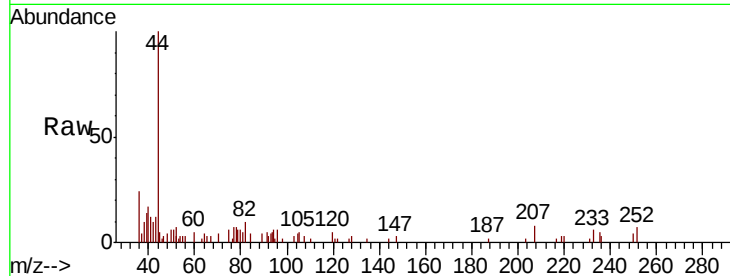
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 94 Resp: 349

Ion Ratio Lower Upper

94 100

96 54.5 74.2 111.2#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.15 min Scan# 533

Delta R.T. -0.01 min

Lab File: VW014724.D

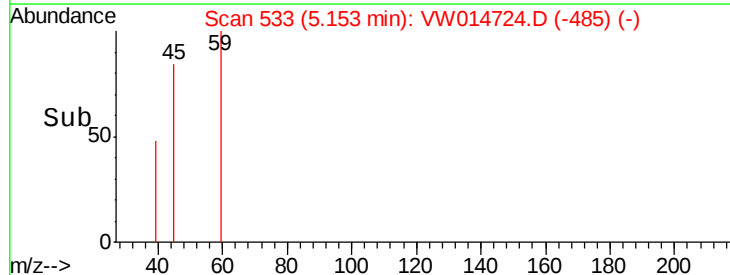
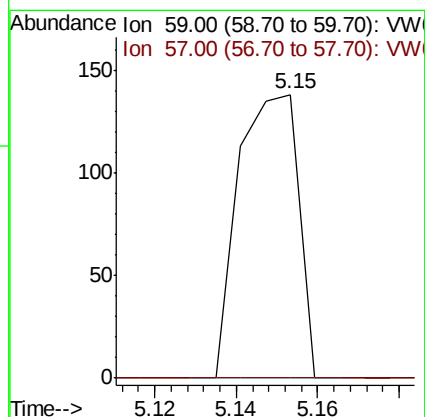
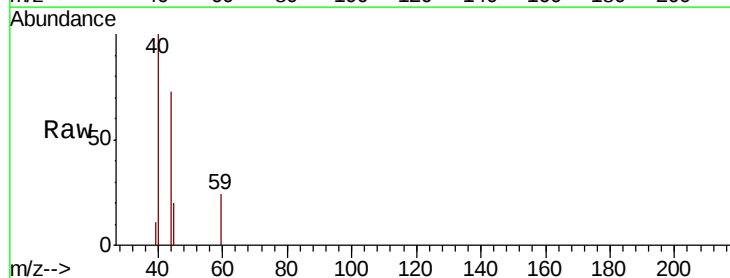
Acq: 23 Jan 2020 14:29

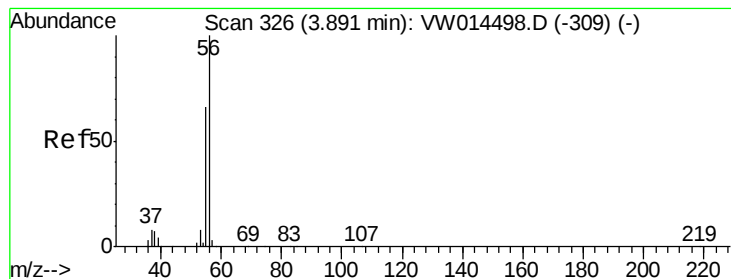
Tgt Ion: 59 Resp: 141

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#





#13

Acrolein

Concen: 1.492 ug/l

RT: 4.04 min Scan# 351

Delta R.T. 0.15 min

Lab File: VW014724.D

Acq: 23 Jan 2020 14:29

Instrument :

MSVOA_W

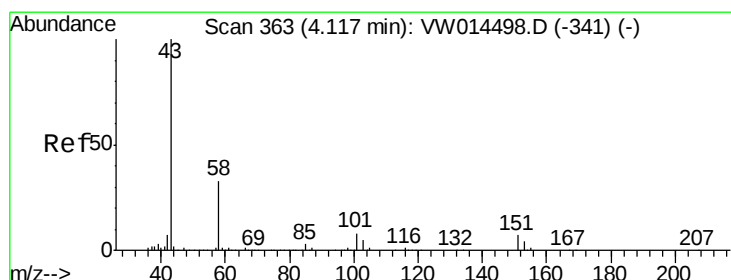
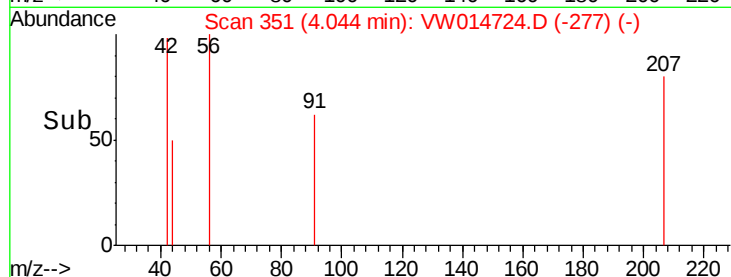
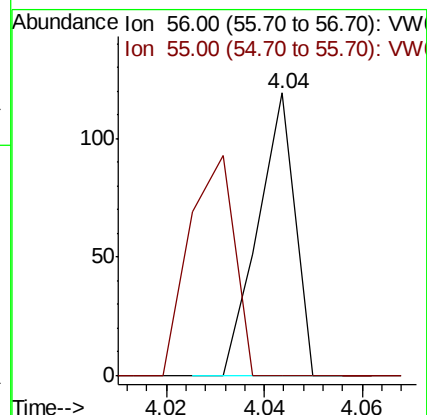
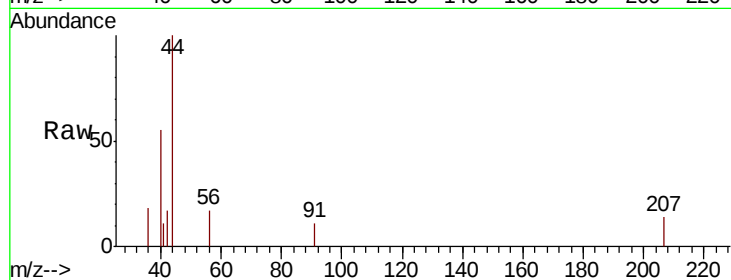
ClientSampled :

Tot Ion: 56 Resp: 62

Ion Ratio Lower Upper

56 100

55 95.2 56.7 85.1#



#16

Acetone

Concen: 55.016 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW014724.D

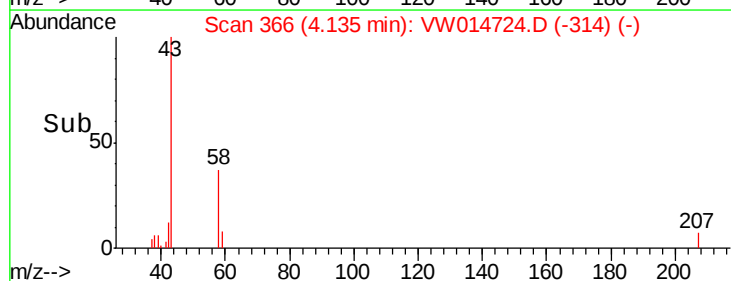
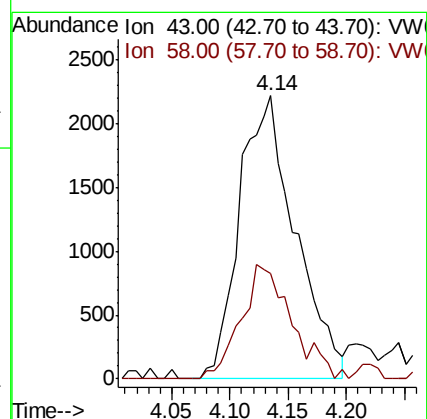
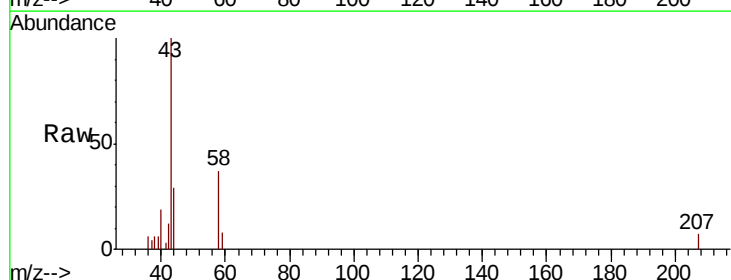
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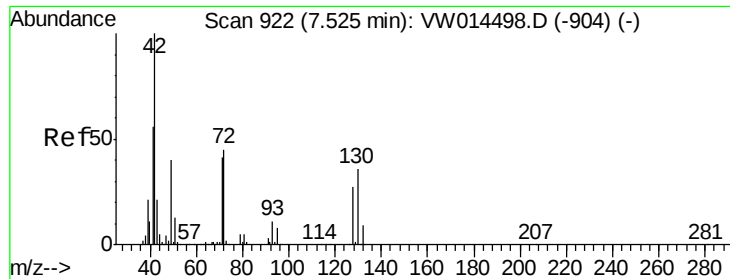
Tgt Ion: 43 Resp: 7394

Ion Ratio Lower Upper

43 100

58 37.2 26.6 39.8

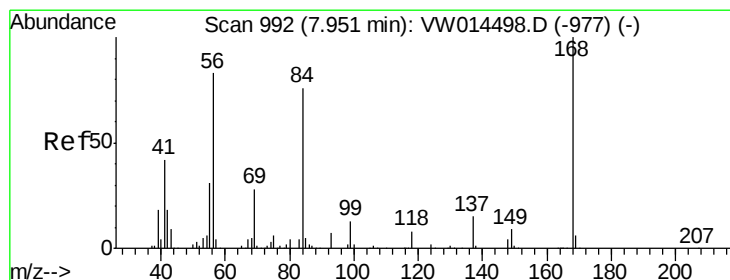
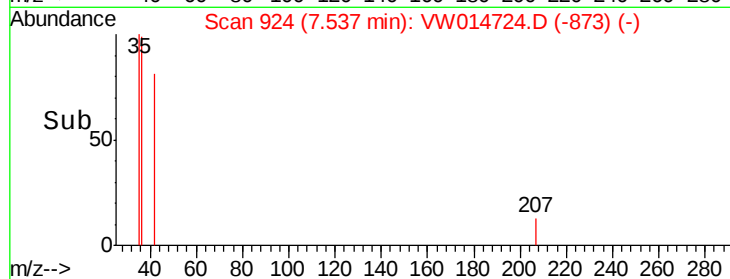
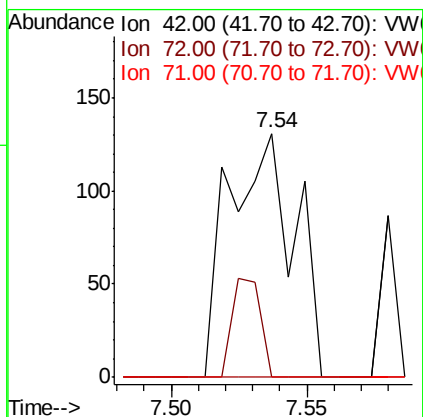
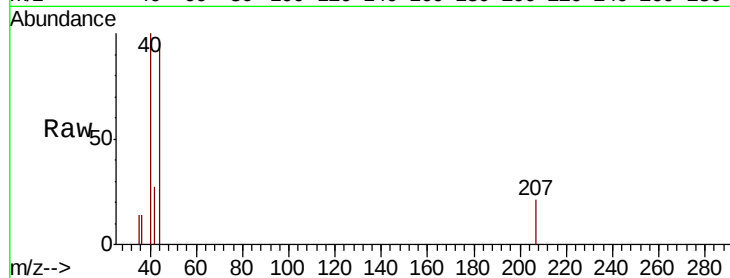




#29
Tetrahydrofuran
Concen: 2.040 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW014724.D
Acq: 23 Jan 2020 14:29

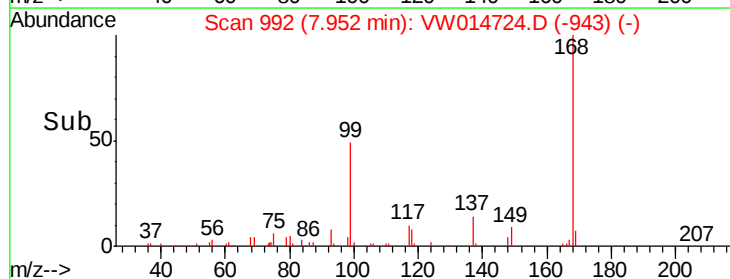
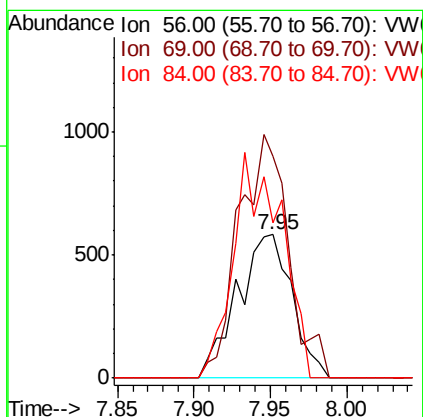
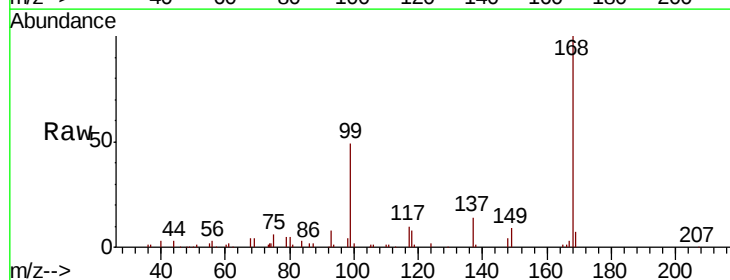
Instrument :
MSVOA_W
ClientSampleId :

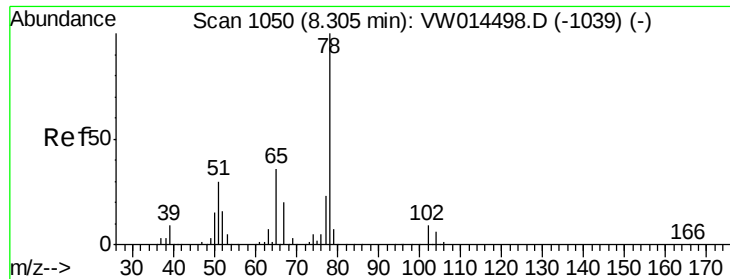
Tot Ion: 42 Resp: 218
Ion Ratio Lower Upper
42 100
72 17.4 34.5 51.7#
71 0.0 32.0 48.0#



#31
Cyclohexane
Concen: 1.417 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW014724.D
Acq: 23 Jan 2020 14:29

Tgt Ion: 56 Resp: 1439
Ion Ratio Lower Upper
56 100
69 154.7 26.8 40.2#
84 108.2 71.8 107.6#

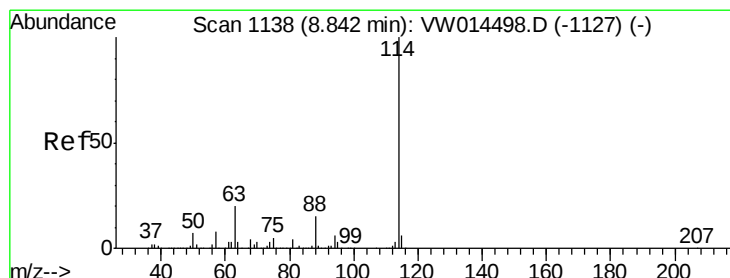
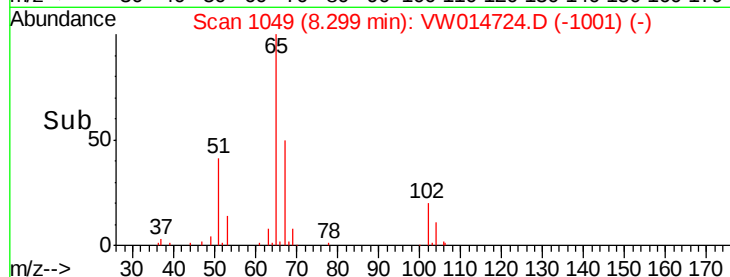
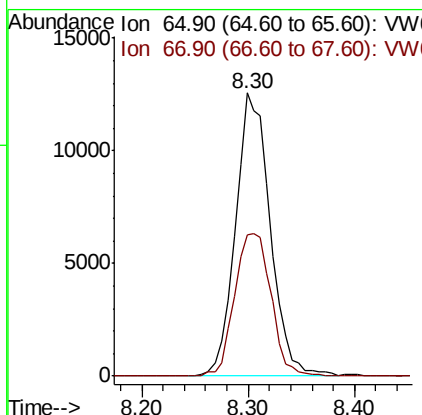
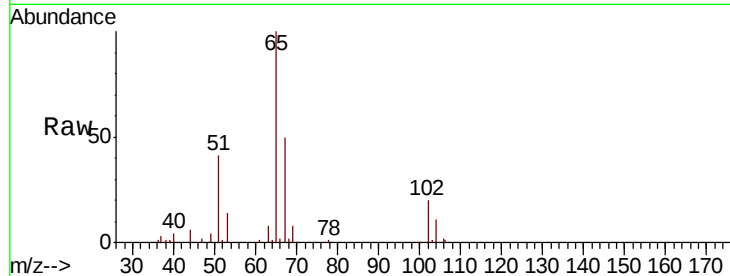




#33
 1,2-Dichloroethane-d4
 Concen: 60.313 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW014724.D
 Acq: 23 Jan 2020 14:29

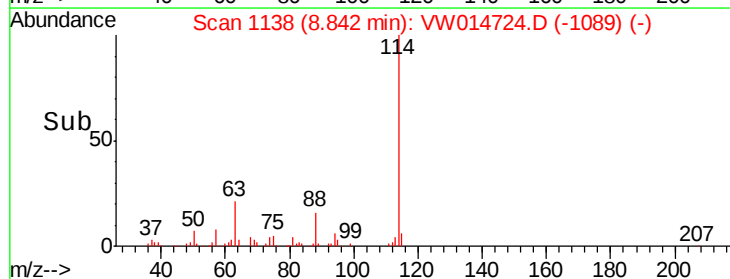
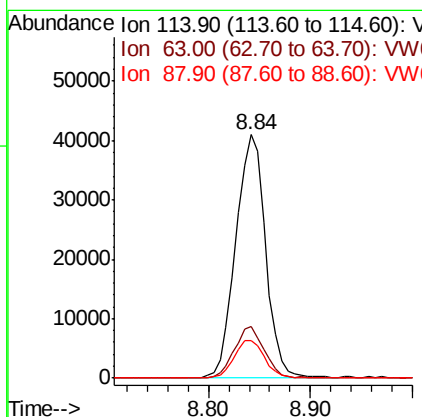
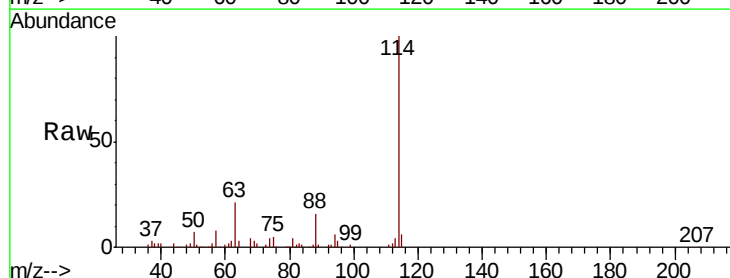
Instrument :
 MSVOA_W
 ClientSampled :

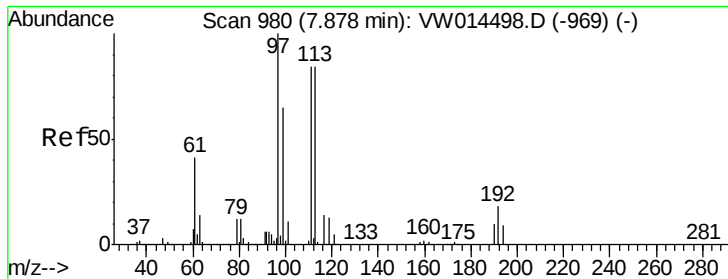
Tot Ion: 65 Resp: 28707
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW014724.D
 Acq: 23 Jan 2020 14:29

Tgt Ion: 114 Resp: 83022
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 40.4
 88 15.7 0.0 30.6

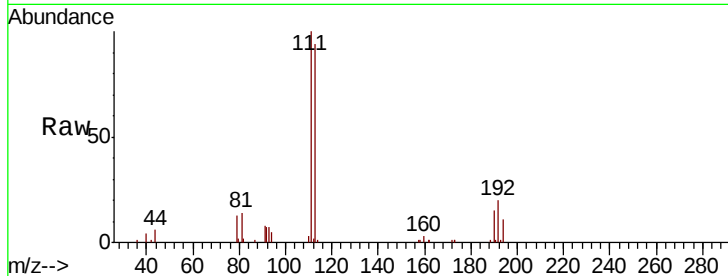




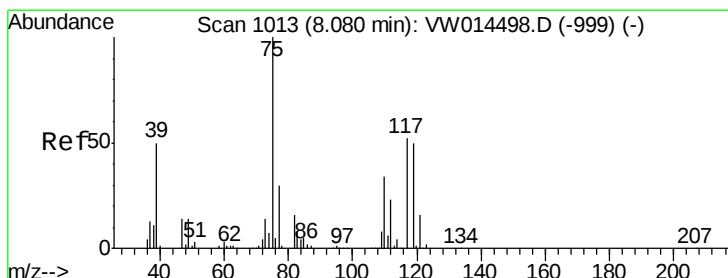
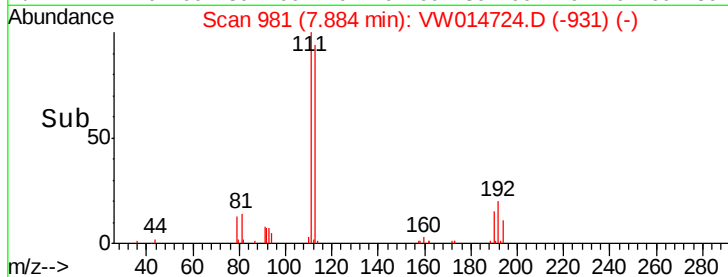
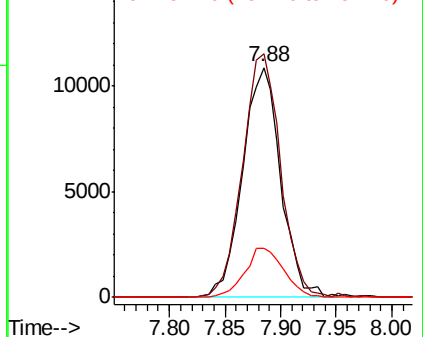
#35
 Dibromofluoromethane
 Concen: 54.689 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW014724.D
 Acq: 23 Jan 2020 14:29

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:113 Resp: 25949
 Ion Ratio Lower Upper
 113 100
 111 105.6 81.4 122.2
 192 21.7 17.8 26.8

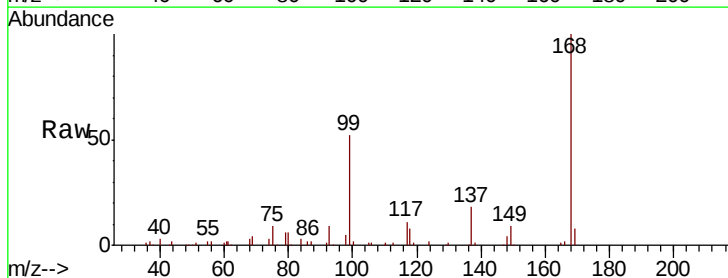


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

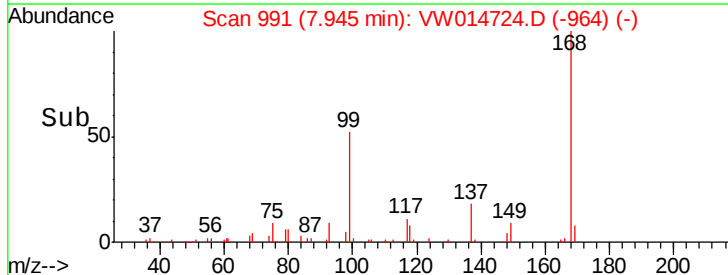
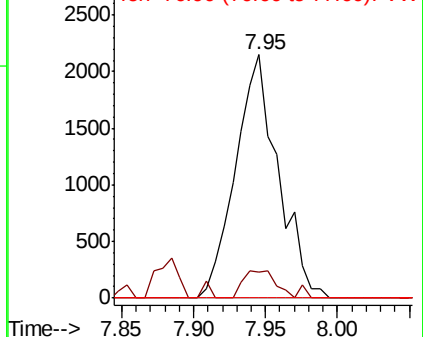


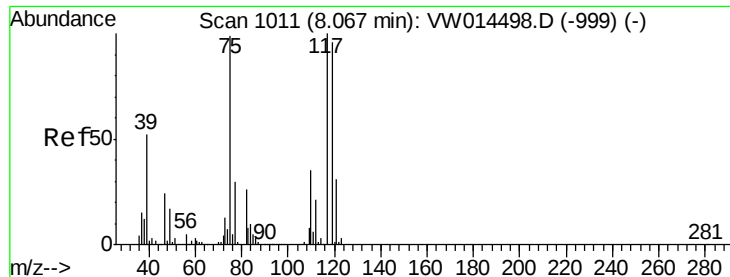
#36
 1,1-Dichloropropene
 Concen: 5.515 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW014724.D
 Acq: 23 Jan 2020 14:29

Tgt Ion: 75 Resp: 4414
 Ion Ratio Lower Upper
 75 100
 110 8.5 17.8 53.5#
 77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW

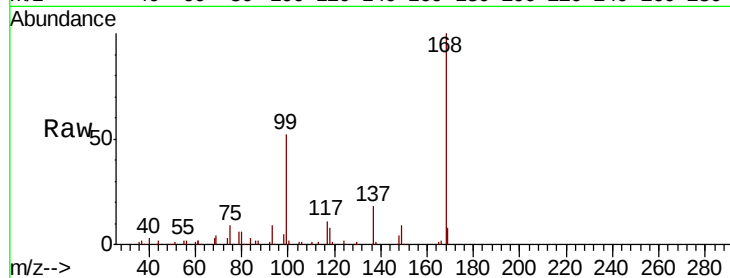




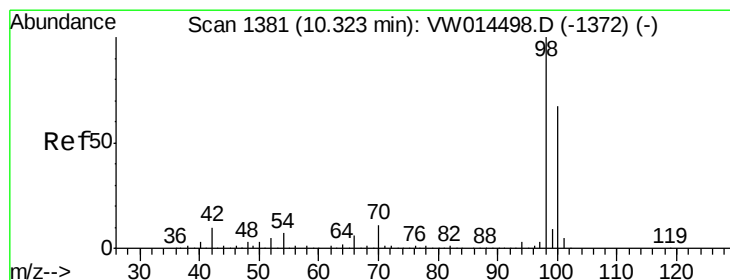
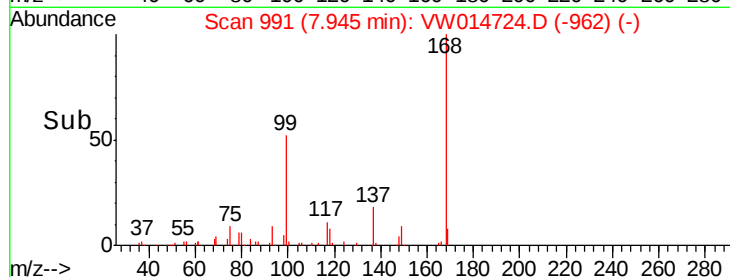
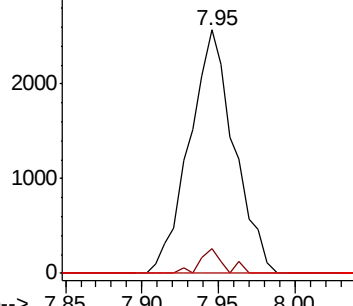
#38
Carbon Tetrachloride
Concen: 7.512 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW014724.D
Acq: 23 Jan 2020 14:29

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 5216
Ion Ratio Lower Upper
117 100
119 10.4 77.0 115.6#
121 0.0 24.6 36.8#

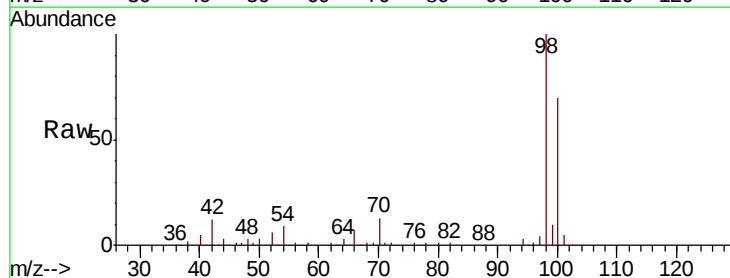


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

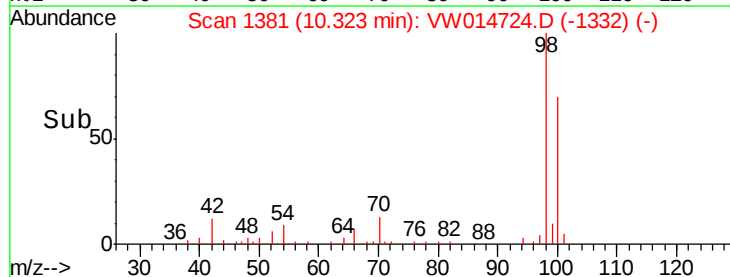
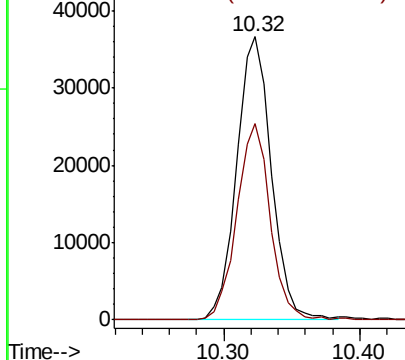


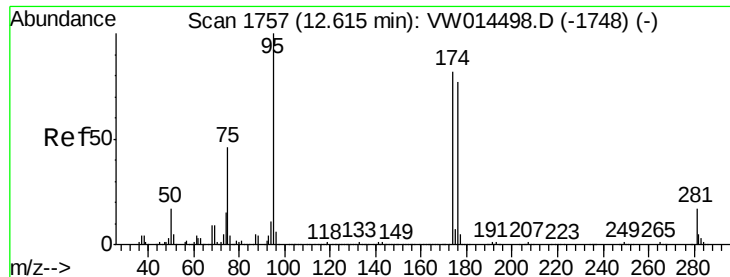
#50
Toluene-d8
Concen: 32.939 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW014724.D
Acq: 23 Jan 2020 14:29

Tgt Ion: 98 Resp: 65224
Ion Ratio Lower Upper
98 100
100 67.1 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): V

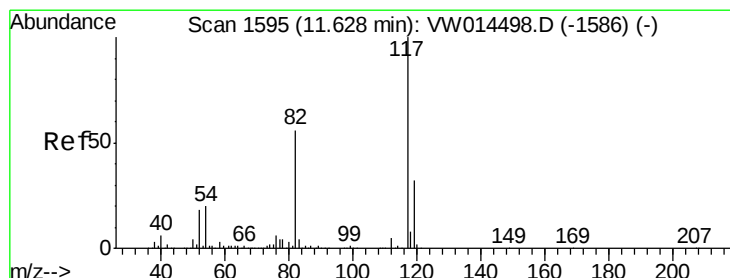
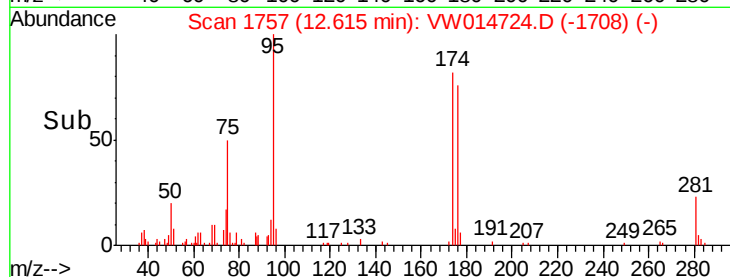
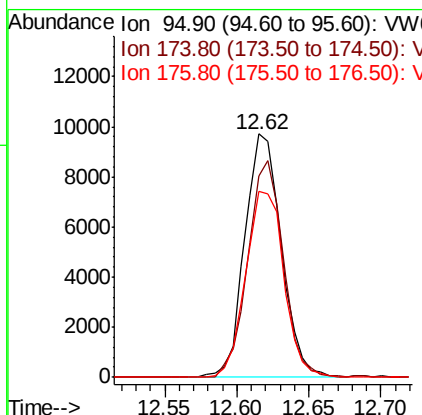
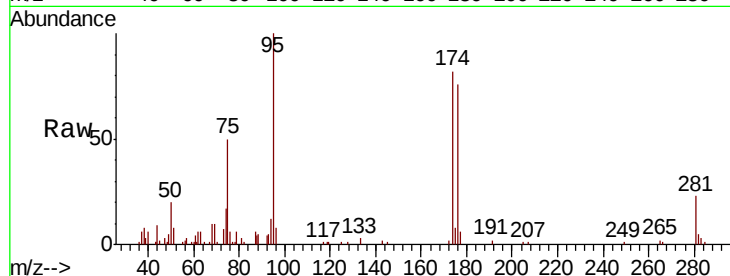




#62
4-Bromofluorobenzene
Concen: 25.253 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW014724.D
Acq: 23 Jan 2020 14:29

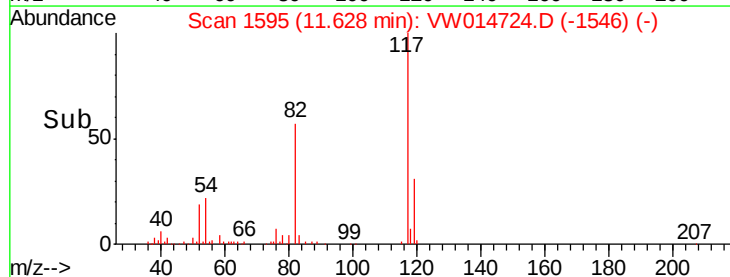
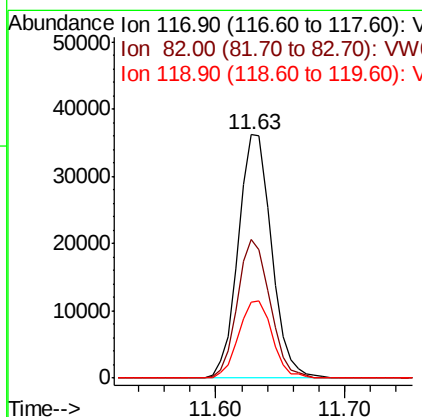
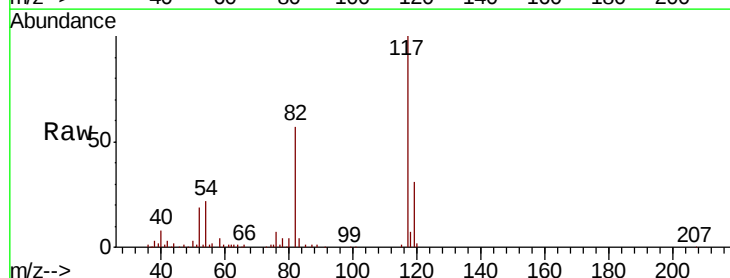
Instrument :
MSVOA_W
ClientSampleId :

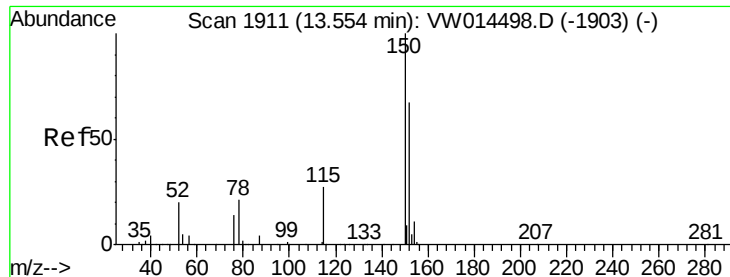
Tot Ion: 95 Resp: 16961
Ion Ratio Lower Upper
95 100
174 86.4 0.0 168.6
176 80.0 0.0 162.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW014724.D
Acq: 23 Jan 2020 14:29

Tgt Ion: 117 Resp: 64918
Ion Ratio Lower Upper
117 100
82 57.2 44.6 67.0
119 31.4 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.01 min

Lab File: VW014724.D

Acq: 23 Jan 2020 14:29

Instrument :

MSVOA_W

ClientSampleId :

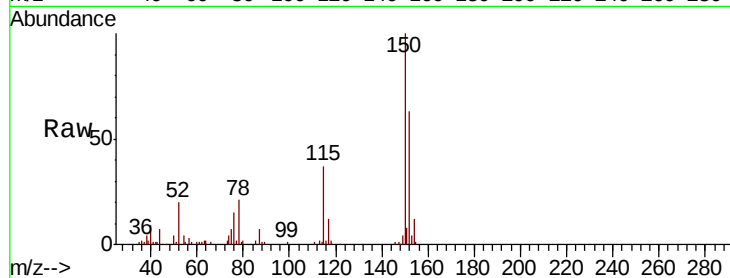
Tot Ion:152 Resp: 13181

Ion Ratio Lower Upper

152 100

115 58.4 27.7 83.1

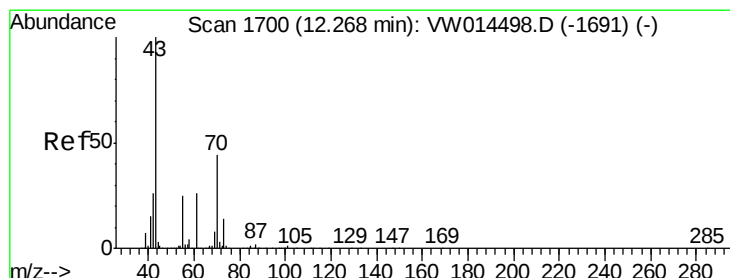
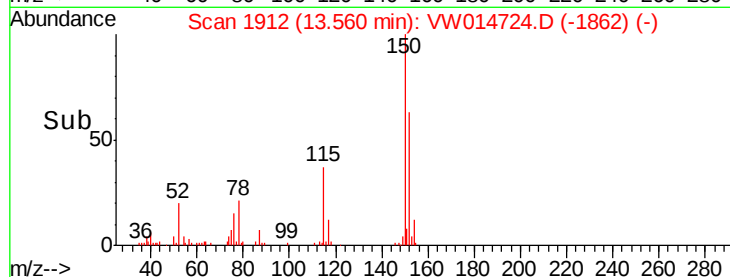
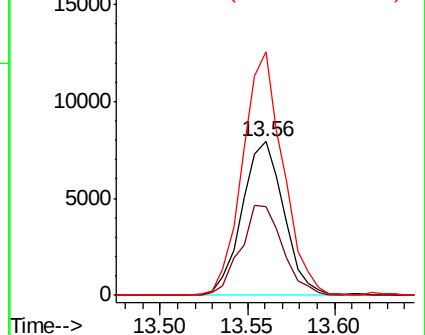
150 153.4 0.0 343.4



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



#74

N-ethyl acetate

Concen: 1.084 ug/l

RT: 12.31 min Scan# 1707

Delta R.T. 0.04 min

Lab File: VW014724.D

Acq: 23 Jan 2020 14:29

Tgt Ion: 43 Resp: 235

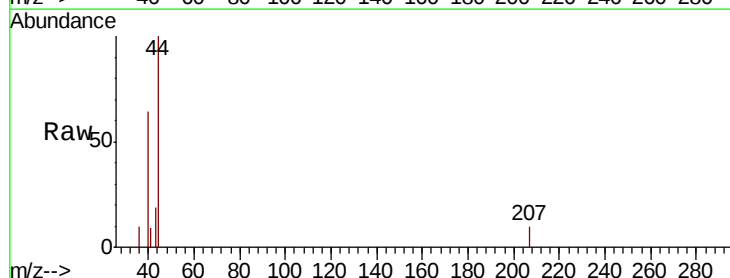
Ion Ratio Lower Upper

43 100

70 0.0 36.5 54.7#

55 0.0 20.9 31.3#

61 0.0 20.7 31.1#

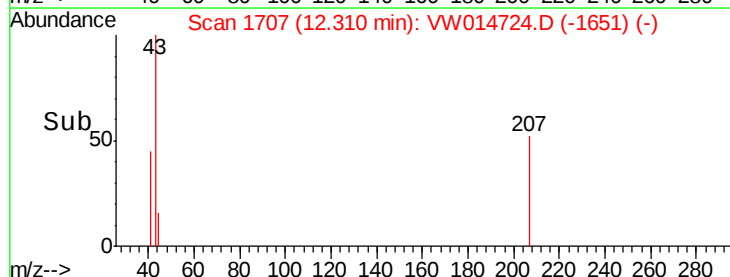
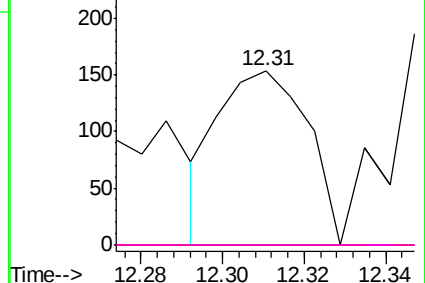


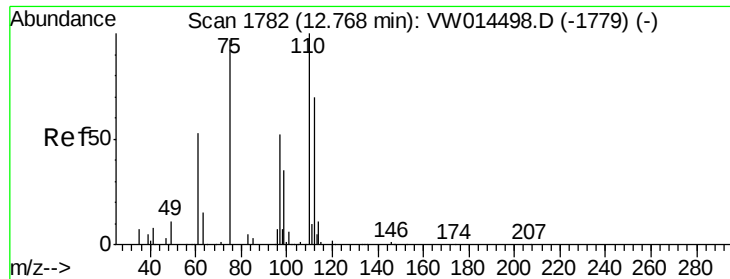
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



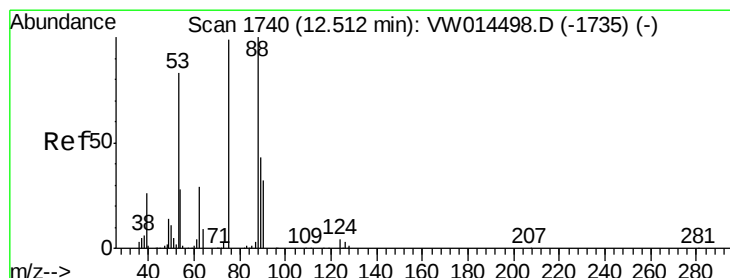
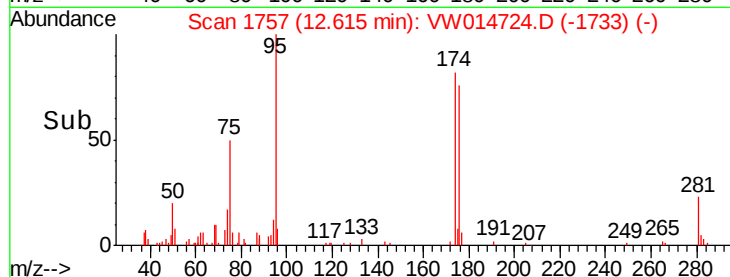
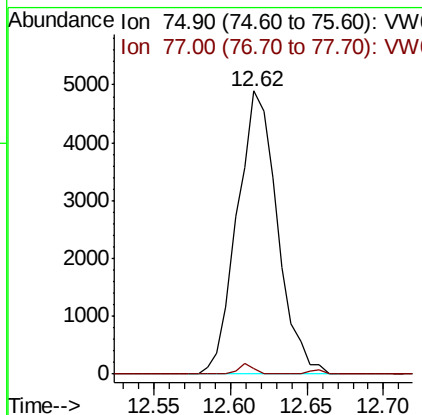
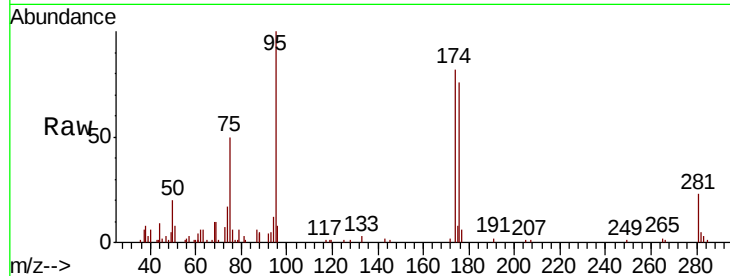


#76

1,2,3-Trichloropropane
Concen: 71.567 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.15 min
Lab File: VW014724.D
Acq: 23 Jan 2020 14:29

Instrument :
MSVOA_W
ClientSampled :

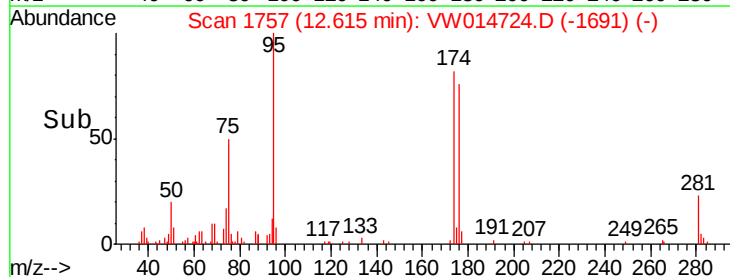
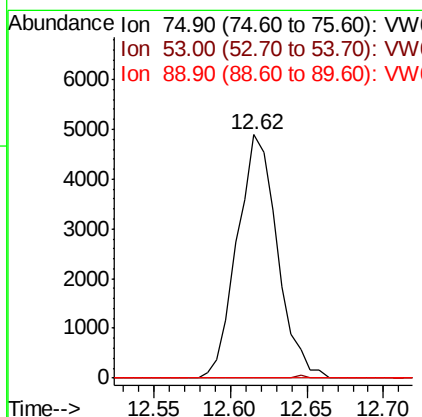
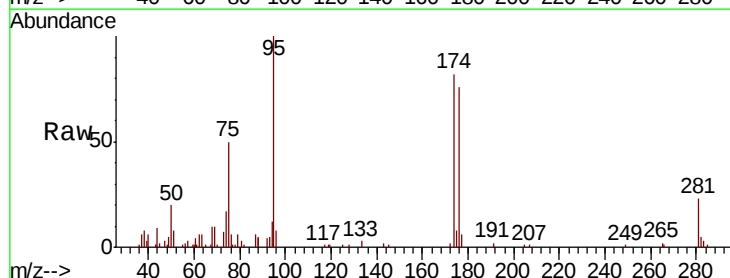
Tot Ion: 75 Resp: 8919
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#

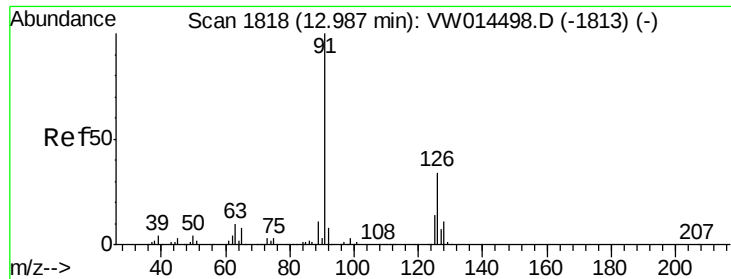


#81

trans-1,4-Dichloro-2-butene
Concen: 159.454 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.10 min
Lab File: VW014724.D
Acq: 23 Jan 2020 14:29

Tgt Ion: 75 Resp: 8919
Ion Ratio Lower Upper
75 100
53 0.0 70.9 106.3#
89 0.0 35.8 53.8#

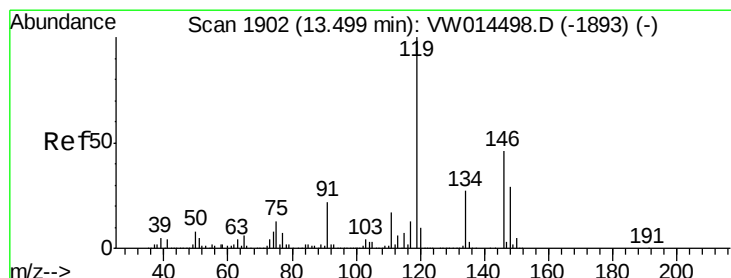
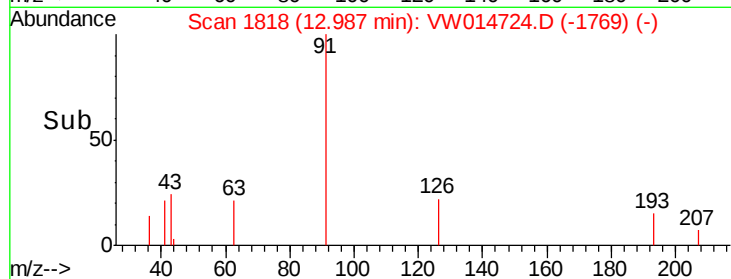
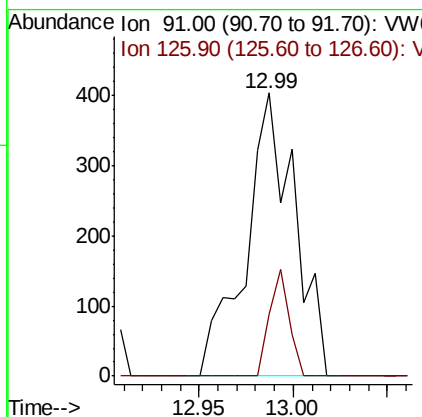
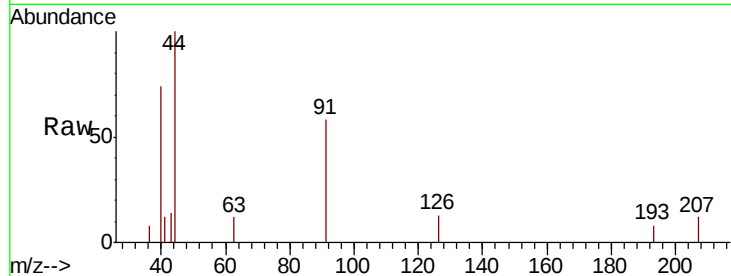




#82
4-Chlorotoluene
Concen: 1.075 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. 0.00 min
Lab File: VW014724.D
Acq: 23 Jan 2020 14:29

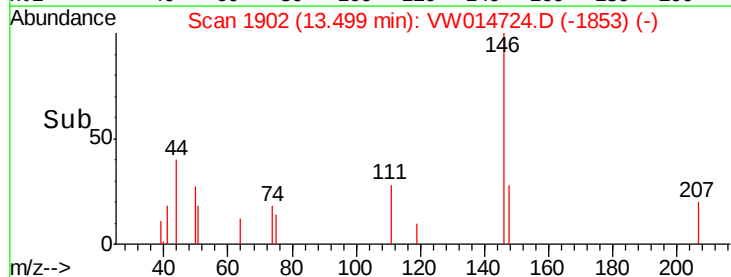
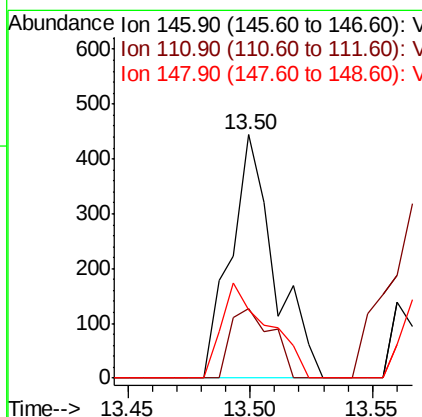
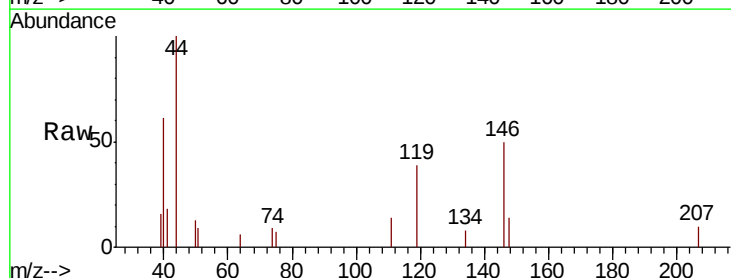
Instrument :
MSVOA_W
ClientSampleId :

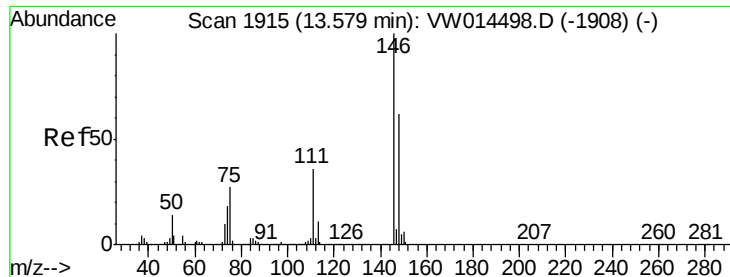
Tot Ion: 91 Resp: 723
Ion Ratio Lower Upper
91 100
126 15.2 17.1 51.2#



#87
1,3-Dichlorobenzene
Concen: 1.261 ug/l
RT: 13.50 min Scan# 1902
Delta R.T. 0.00 min
Lab File: VW014724.D
Acq: 23 Jan 2020 14:29

Tgt Ion: 146 Resp: 551
Ion Ratio Lower Upper
146 100
111 27.2 19.3 57.9
148 41.7 31.8 95.4





#88

1,4-Dichlorobenzene

Concen: 1.278 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.08 min

Lab File: VW014724.D

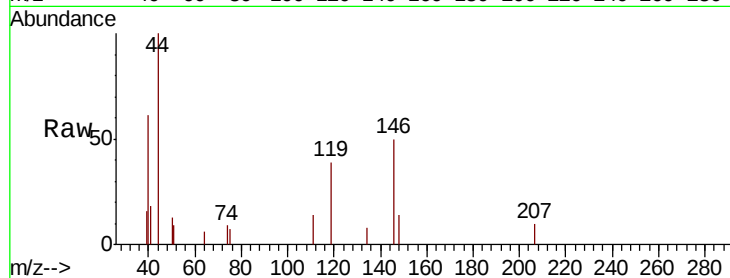
Acq: 23 Jan 2020 14:29

Instrument :

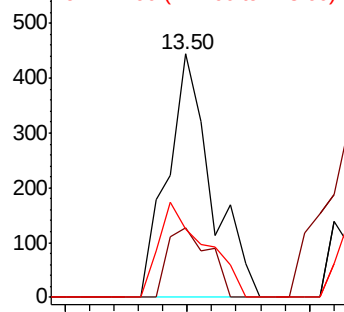
MSVOA_W

ClientSampleId :

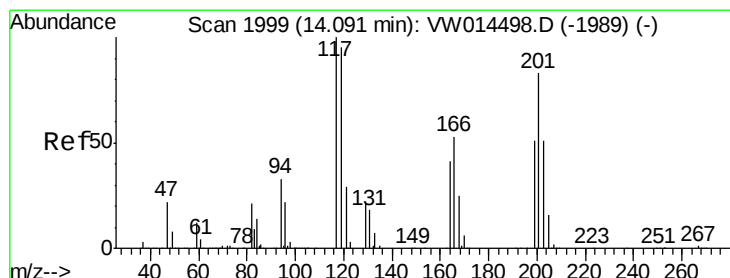
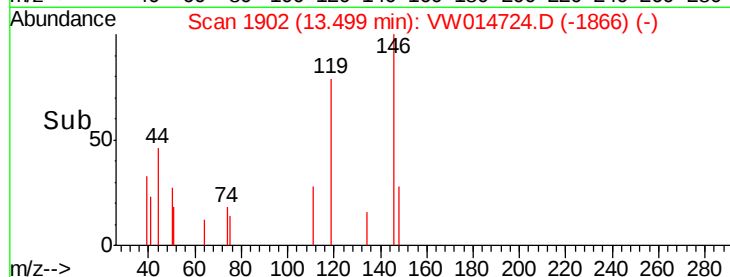
Tot Ion:146	Resp:	551
Ion	Ratio	Lower Upper
146	100	
111	27.2	18.7 56.1
148	41.7	31.7 95.1



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



Time--> 13.45 13.50 13.55



#90

Hexachloroethane

Concen: 1.289 ug/l

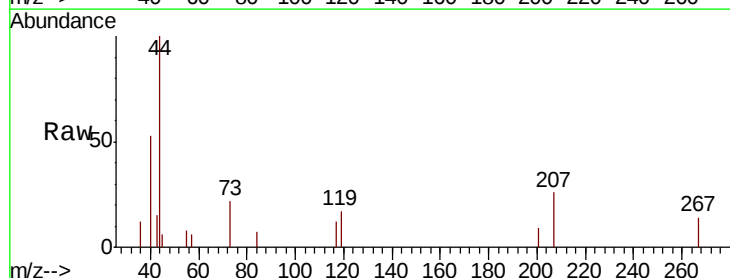
RT: 14.09 min Scan# 1999

Delta R.T. 0.00 min

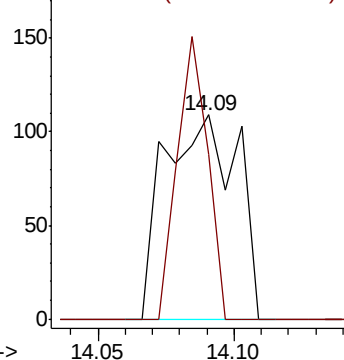
Lab File: VW014724.D

Acq: 23 Jan 2020 14:29

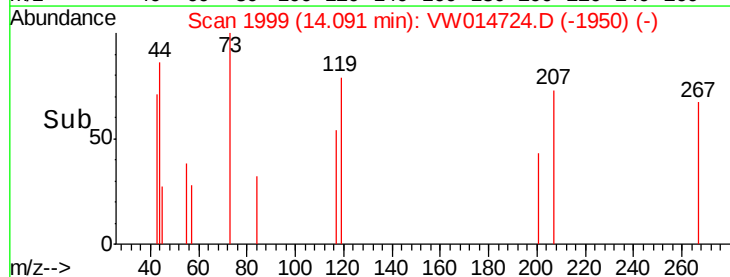
Tgt Ion:117	Resp:	202
Ion	Ratio	Lower Upper
117	100	
201	57.4	43.0 128.8

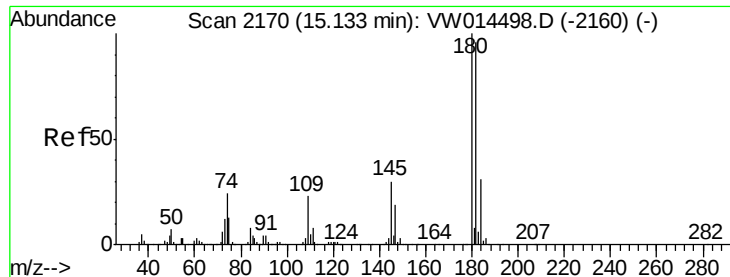


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V



Time--> 14.05 14.10





#93

1,2,4-Trichlorobenzene

Concen: 1.724 ug/l

RT: 15.14 min Scan# 2171

Delta R.T. 0.01 min

Lab File: VW014724.D

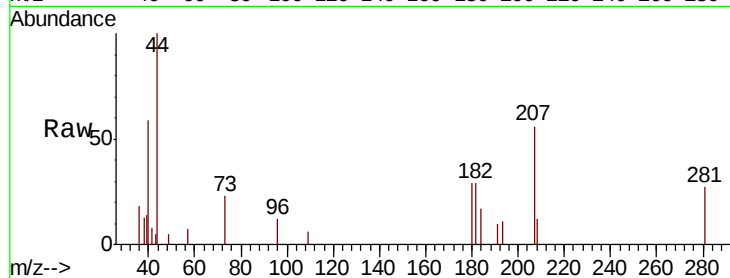
Acq: 23 Jan 2020 14:29

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	102.7	47.3	141.8
145	0.0	14.7	44.1#

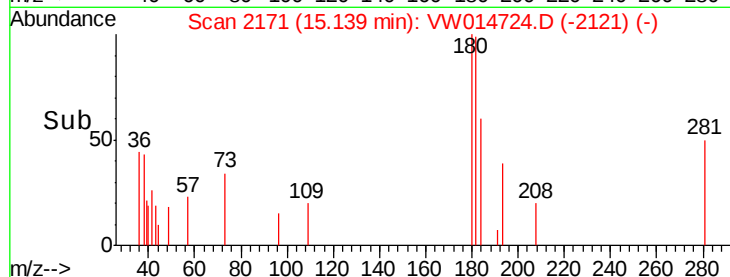


Abundance Ion 179.80 (179.50 to 180.50): V

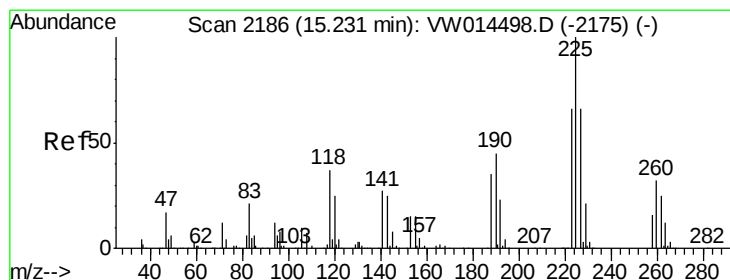
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

15.14



Time-->



#94

Hexachlorobutadiene

Concen: 1.848 ug/l

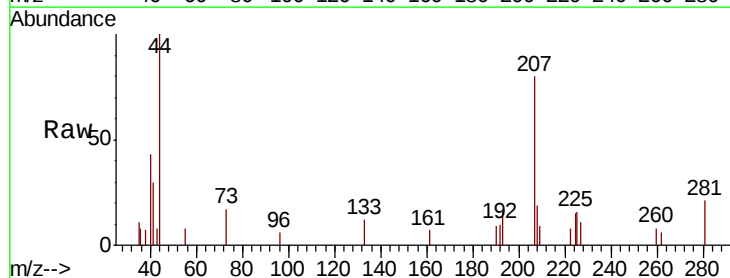
RT: 15.24 min Scan# 2187

Delta R.T. 0.01 min

Lab File: VW014724.D

Acq: 23 Jan 2020 14:29

Tgt Ion	Ratio	Lower	Upper
225	100		
223	53.9	32.4	97.2
227	17.4	32.6	97.8#

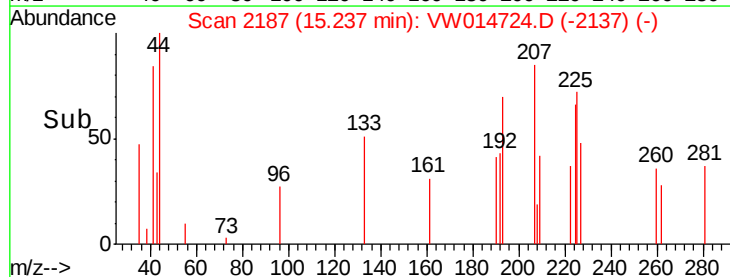


Abundance Ion 224.70 (224.40 to 225.40): V

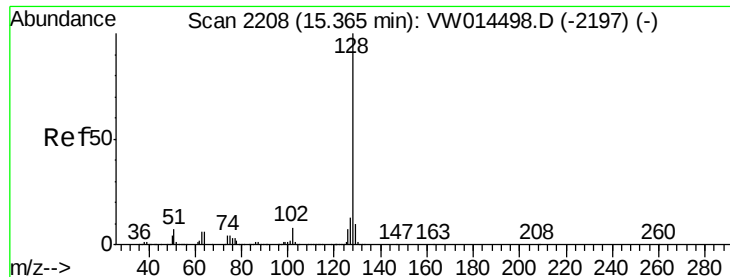
Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

15.24



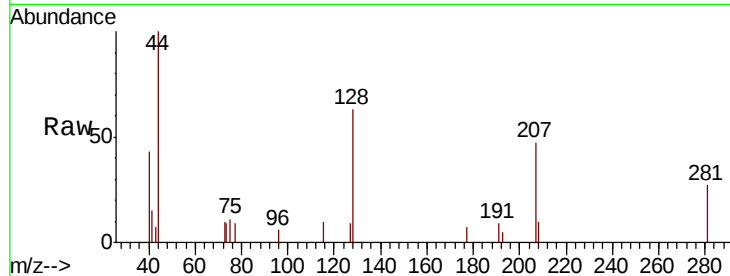
Time-->



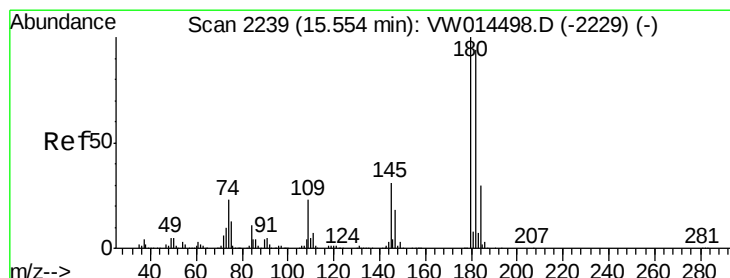
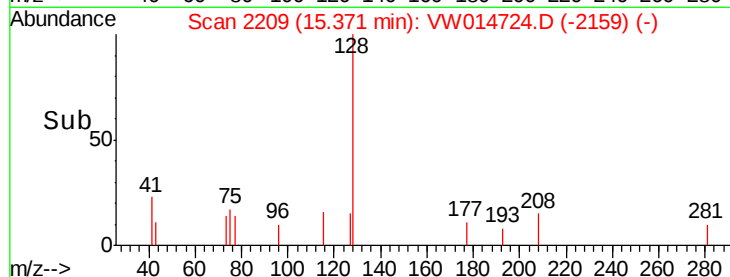
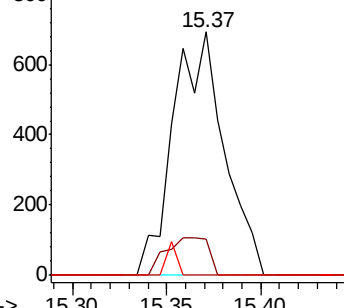
#95
Naphthalene
Concen: 2.947 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.01 min
Lab File: VW014724.D
Acq: 23 Jan 2020 14:29

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:128 Resp: 1303
Ion Ratio Lower Upper
128 100
127 12.7 10.6 15.8
129 2.6 8.7 13.1#

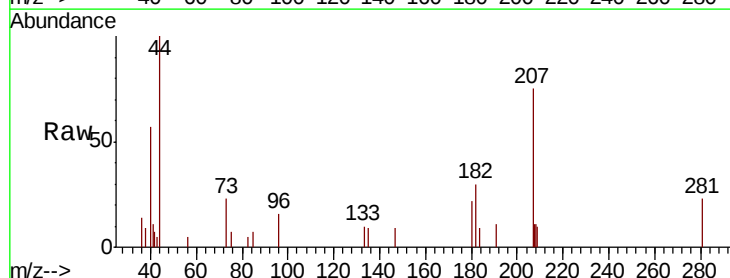


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 1.456 ug/l
RT: 15.55 min Scan# 2238
Delta R.T. -0.01 min
Lab File: VW014724.D
Acq: 23 Jan 2020 14:29

Tgt Ion:180 Resp: 329
Ion Ratio Lower Upper
180 100
182 128.0 47.4 142.2
145 17.3 15.5 46.5



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

