

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU083119\
 Data File : VU034097.D
 Acq On : 30 Aug 2019 14:44
 Operator : JC/SP
 Sample : K4555-21
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TW-2

Quant Time: Aug 31 03:38:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	477998	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	752672	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	716101	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	366469	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	287031	46.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.72%	
35) Dibromofluoromethane	4.86	113	244942	46.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.84%	
50) Toluene-d8	7.55	98	941153	48.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.30%	
62) 4-Bromofluorobenzene	10.29	95	335457	44.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.24%	

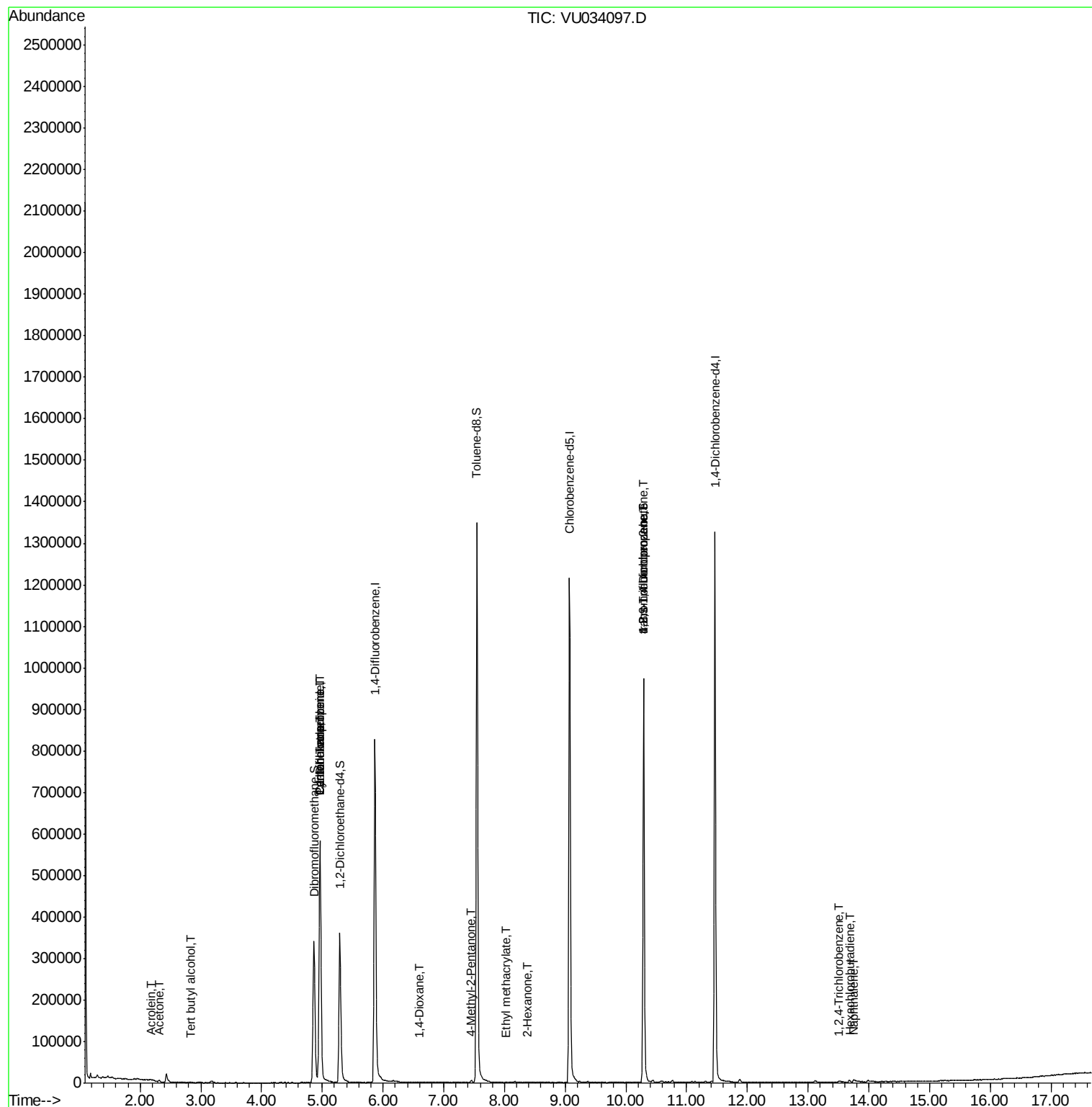
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1262	Below Cal	#	82
5) Bromomethane	1.63	94	945	Below Cal	#	69
11) Tert butyl alcohol	2.82	59	1041	0.737	ug/l #	73
13) Acrolein	2.18	56	187	0.315	ug/l	98
16) Acetone	2.31	43	5670	1.814	ug/l	97
31) Cyclohexane	4.96	56	8447	0.924	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	34703	4.874	ug/l #	49
38) Carbon Tetrachloride	4.96	117	44072	6.413	ug/l #	15
49) 1,4-Dioxane	6.60	88	164	1.118	ug/l #	71
51) 4-Methyl-2-Pentanone	7.45	43	3998	0.477	ug/l #	82
56) Ethyl methacrylate	8.02	69	152	0.988	ug/l #	31
59) 2-Hexanone	8.38	43	3092	0.489	ug/l	83
76) 1,2,3-Trichloropropane	10.29	75	165247	20.007	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	165247	67.367	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.51	180	1709	1.323	ug/l #	36
94) Hexachlorobutadiene	13.68	225	1309	0.298	ug/l	85
95) Naphthalene	13.76	128	8973	2.168	ug/l #	91

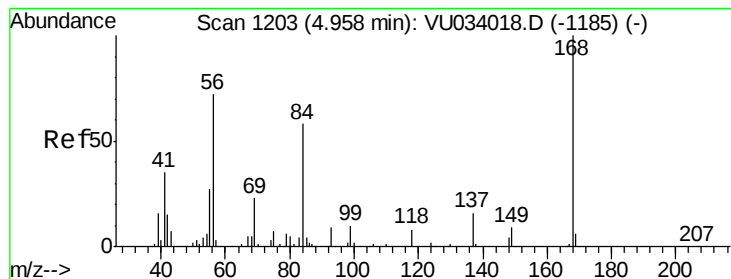
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034097.D

Acq: 30 Aug 2019 14:44

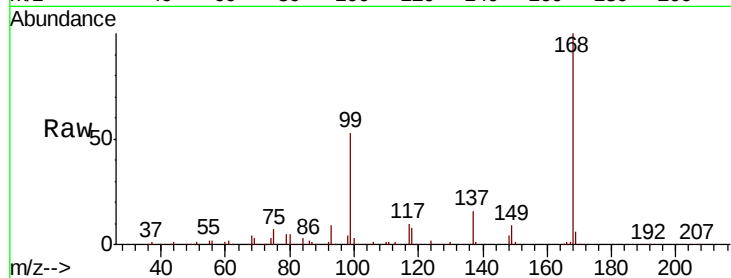
Instrument :
MSVOA_U
ClientSampleId :
TW-2

Tgt Ion: 168 Resp: 477998

Ion Ratio Lower Upper

168 100

99 53.0 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

200000

150000

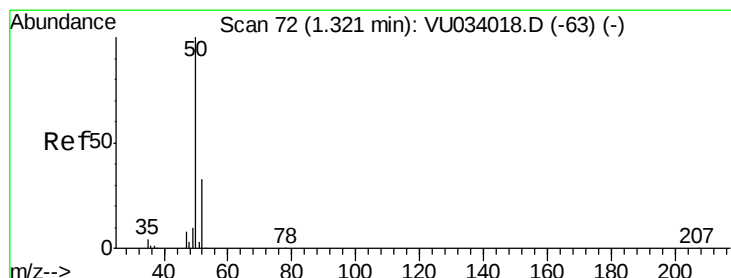
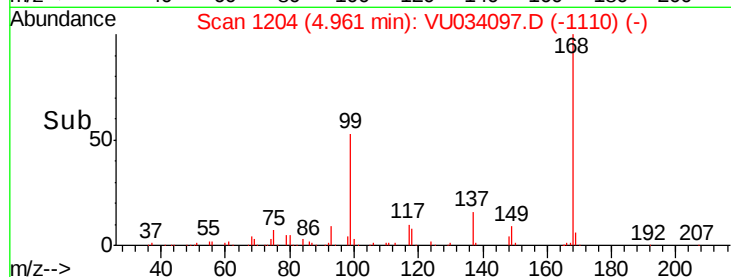
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034097.D

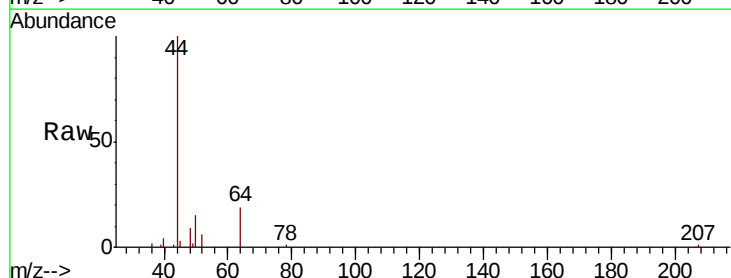
Acq: 30 Aug 2019 14:44

Tgt Ion: 50 Resp: 1262

Ion Ratio Lower Upper

50 100

52 42.8 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034018.D (-63) (-)

1.32

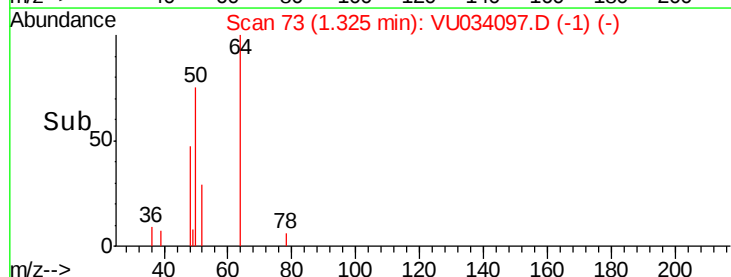
1000

500

0

1.30 1.32 1.34

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.04 min

Lab File: VU034097.D

Acq: 30 Aug 2019 14:44

Instrument :

MSVOA_U

ClientSampleId :

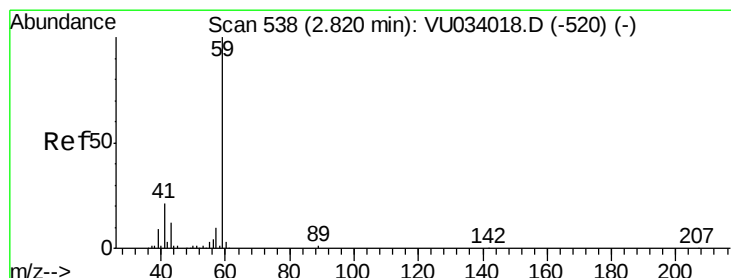
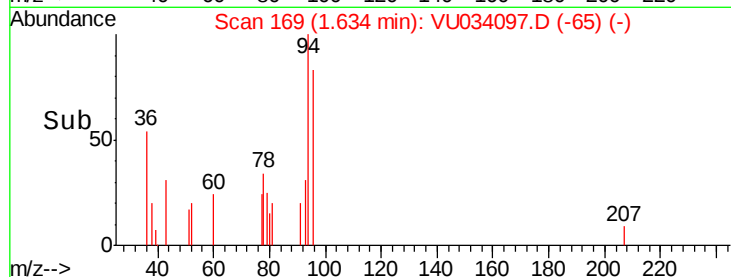
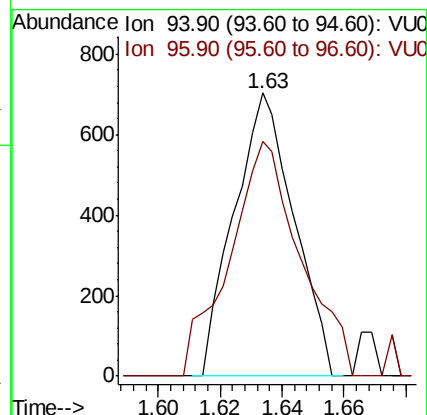
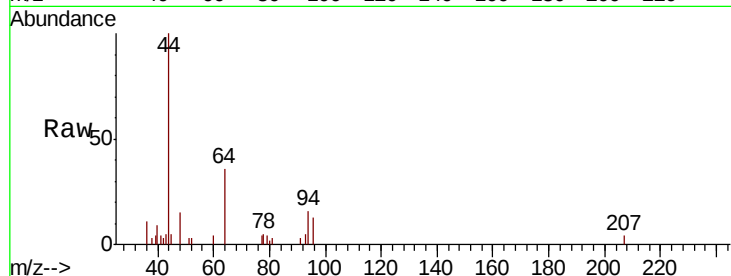
TW-2

Tgt Ion: 94 Resp: 945

Ion Ratio Lower Upper

94 100

96 65.4 76.3 114.5#



#11

Tert butyl alcohol

Concen: 0.737 ug/l

RT: 2.82 min Scan# 537

Delta R.T. -0.00 min

Lab File: VU034097.D

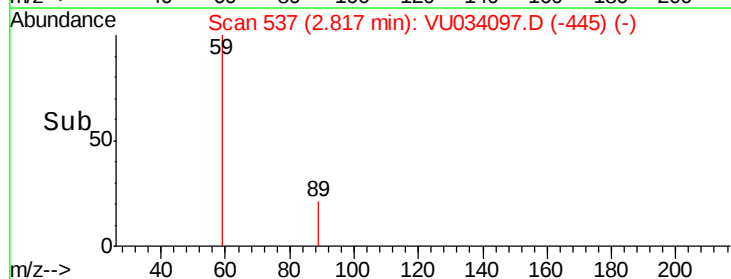
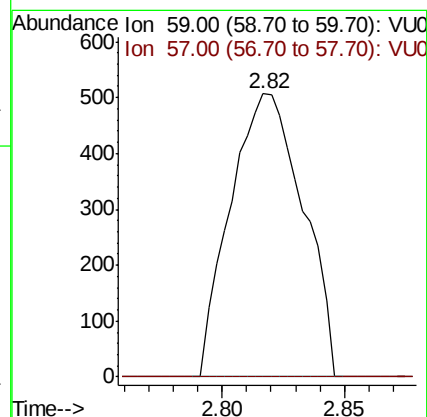
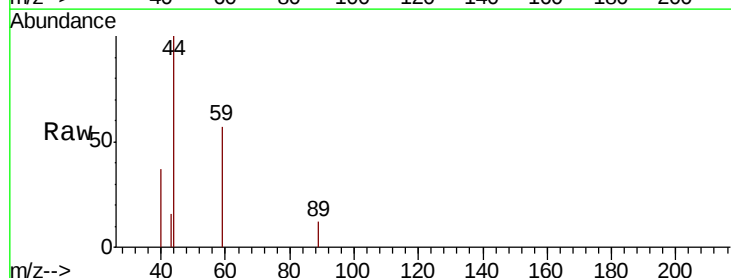
Acq: 30 Aug 2019 14:44

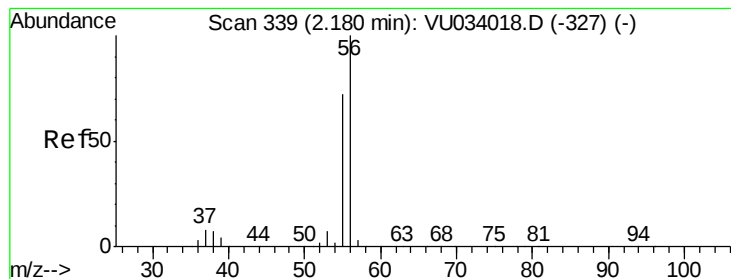
Tgt Ion: 59 Resp: 1041

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#





#13

Acrolein

Concen: 0.315 ug/l

RT: 2.18 min Scan# 339

Delta R.T. 0.00 min

Lab File: VU034097.D

Acq: 30 Aug 2019 14:44

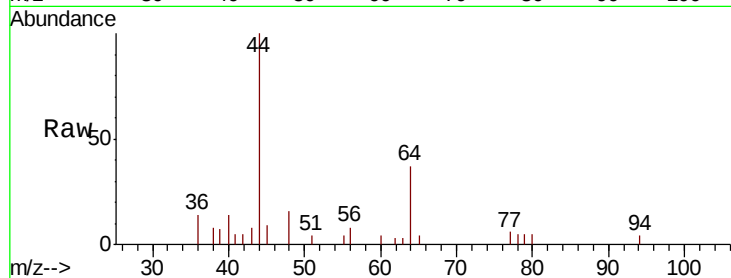
Instrument :
MSVOA_U
ClientSampled :
TW-2

Tgt Ion: 56 Resp: 187

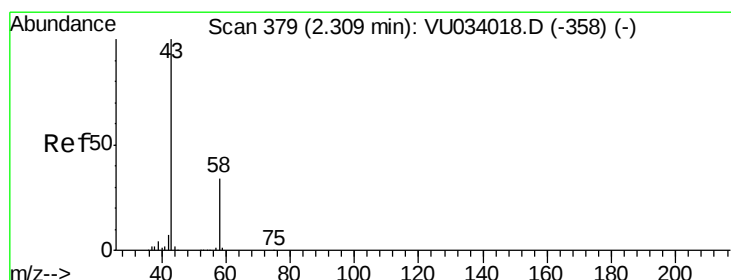
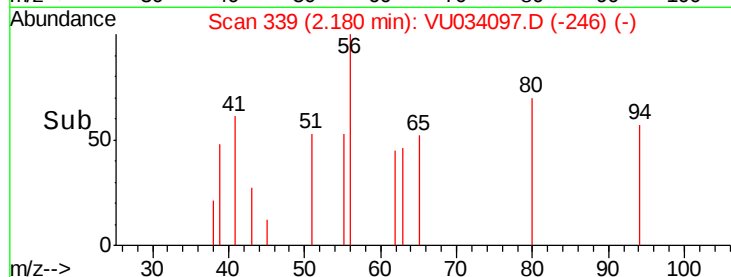
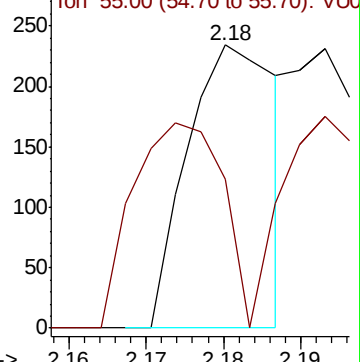
Ion Ratio Lower Upper

56 100

55 72.7 57.1 85.7



Abundance Ion 56.00 (55.70 to 56.70): VU034018.D (-327) (-)



#16

Acetone

Concen: 1.814 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034097.D

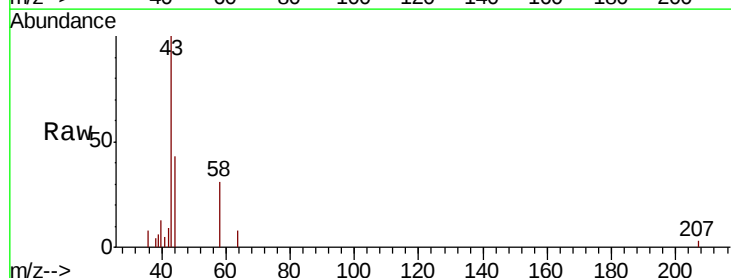
Acq: 30 Aug 2019 14:44

Tgt Ion: 43 Resp: 5670

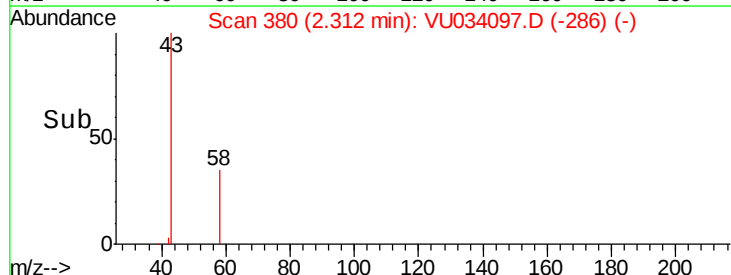
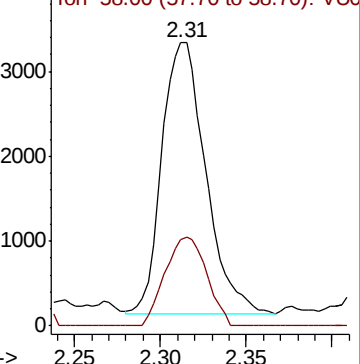
Ion Ratio Lower Upper

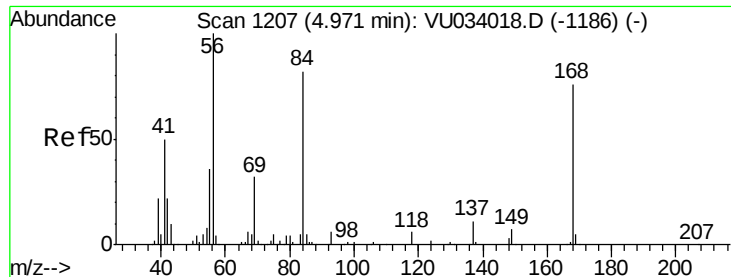
43 100

58 32.1 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-358) (-)





#31

Cyclohexane

Concen: 0.924 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VU034097.D

Acq: 30 Aug 2019 14:44

Instrument :
MSVOA_U
ClientSampled :
TW-2

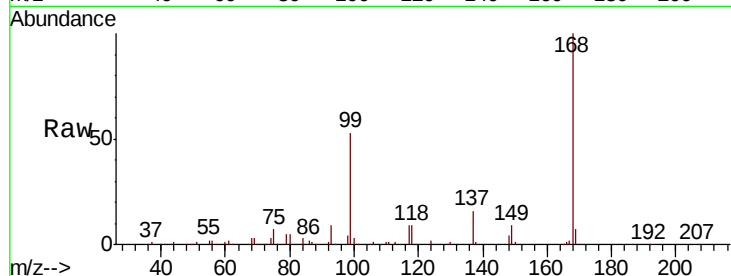
Tgt Ion: 56 Resp: 8447

Ion Ratio Lower Upper

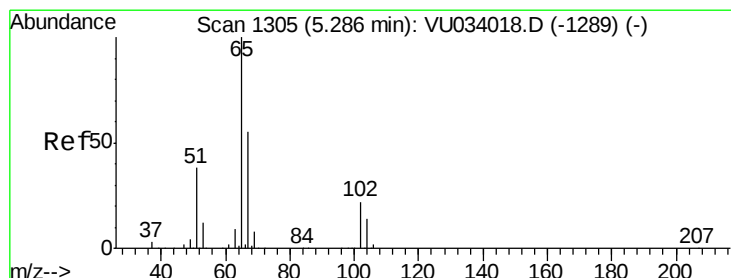
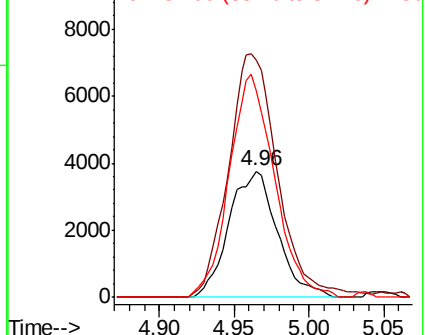
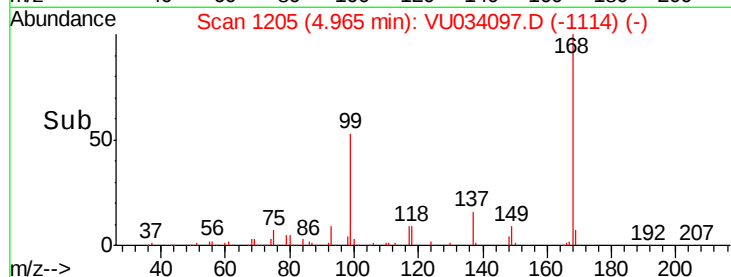
56 100

69 187.6 25.4 38.0#

84 163.4 65.8 98.8#



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



#33

1,2-Dichloroethane-d4

Concen: 46.864 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034097.D

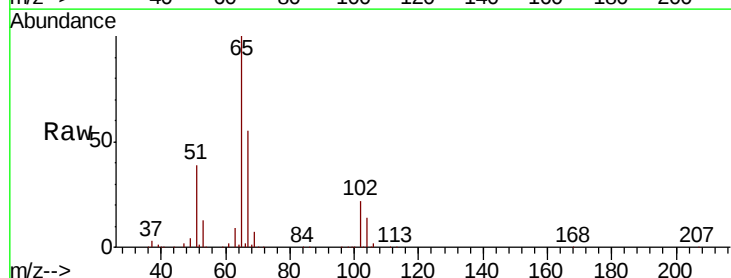
Acq: 30 Aug 2019 14:44

Tgt Ion: 65 Resp: 287031

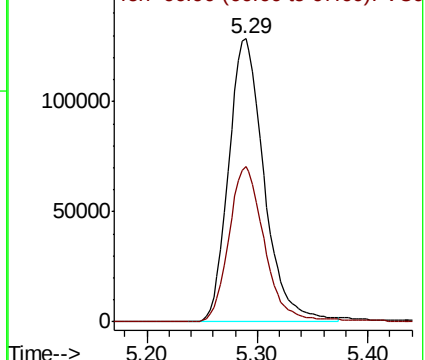
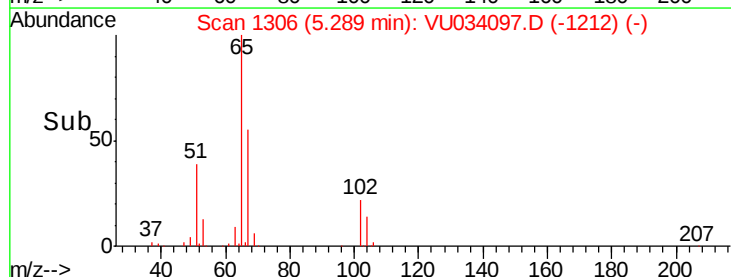
Ion Ratio Lower Upper

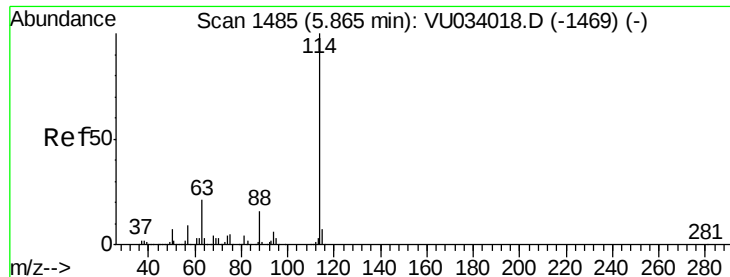
65 100

67 54.9 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

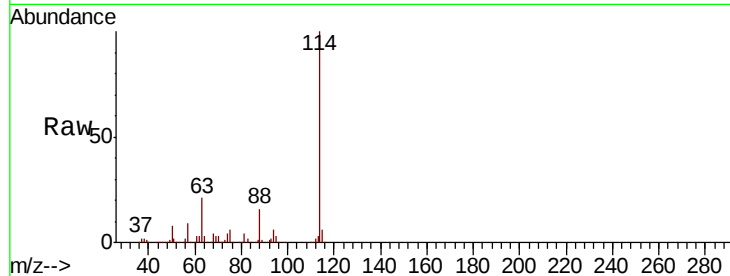




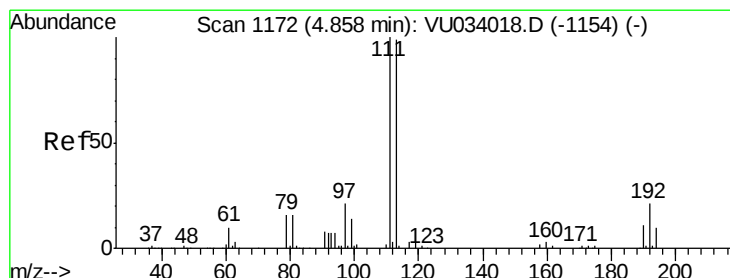
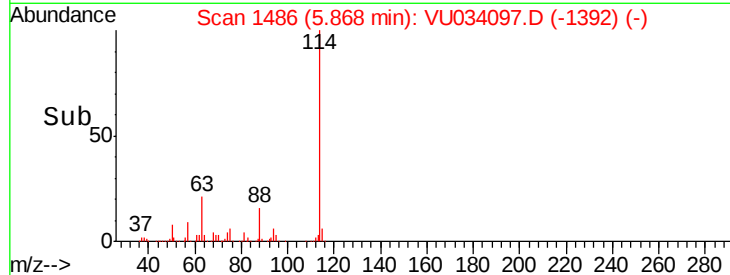
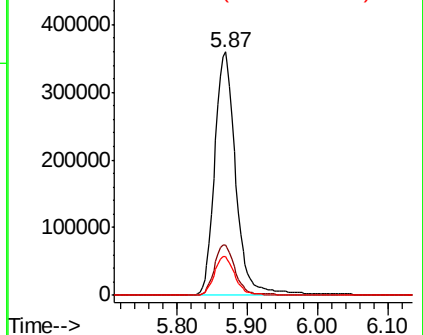
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034097.D
 Acq: 30 Aug 2019 14:44

Instrument :
 MSVOA_U
 ClientSampleId :
 TW-2

Tgt Ion:114 Resp: 752672
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 42.0
 88 15.9 0.0 32.0

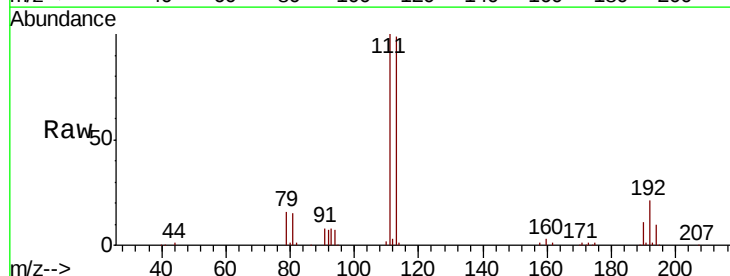


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

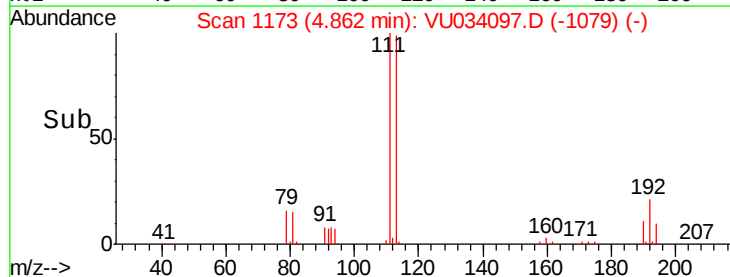
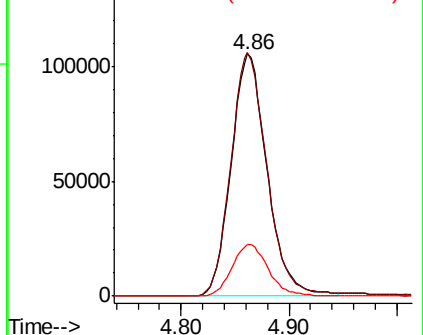


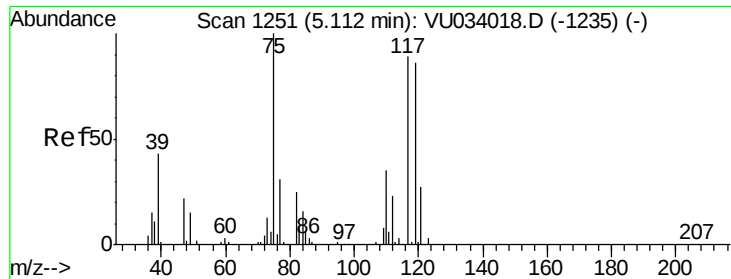
#35
 Dibromofluoromethane
 Concen: 46.920 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034097.D
 Acq: 30 Aug 2019 14:44

Tgt Ion:113 Resp: 244942
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.7 122.5
 192 21.5 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

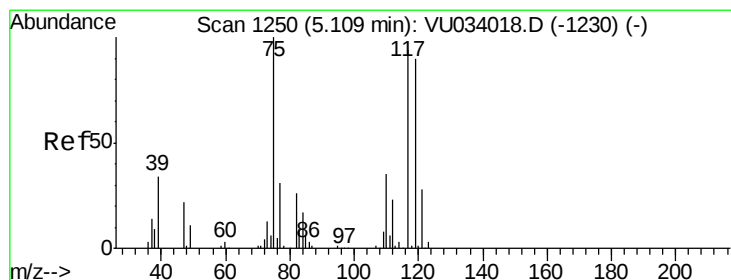
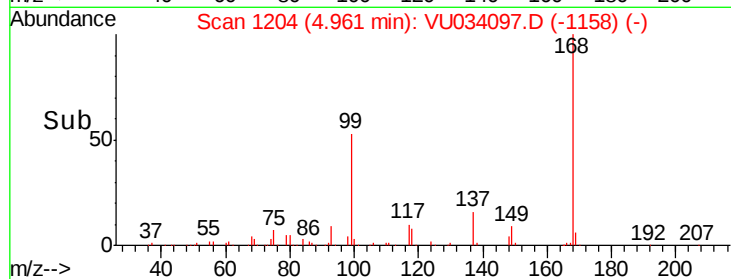
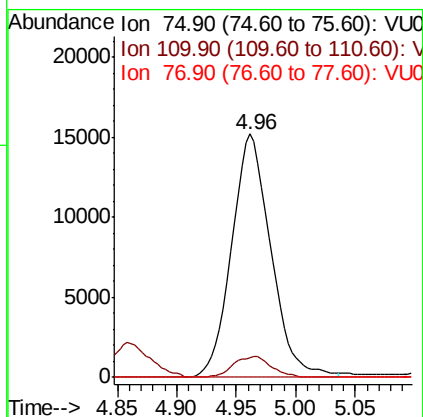
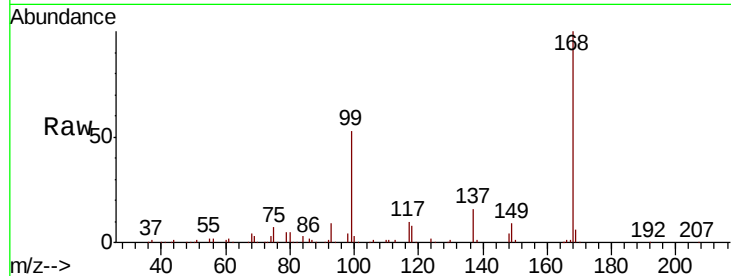




#36
 1,1-Dichloropropene
 Concen: 4.874 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034097.D
 Acq: 30 Aug 2019 14:44

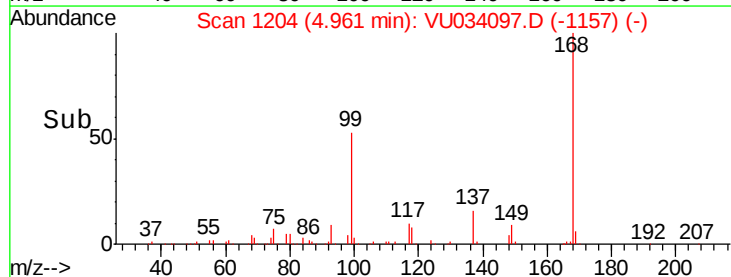
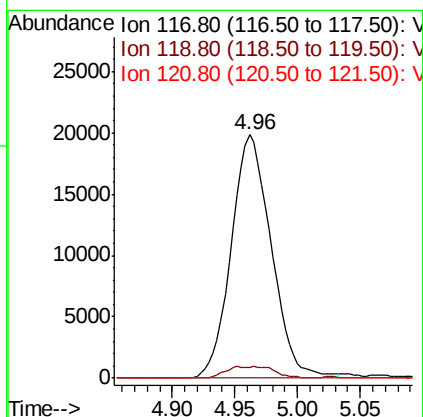
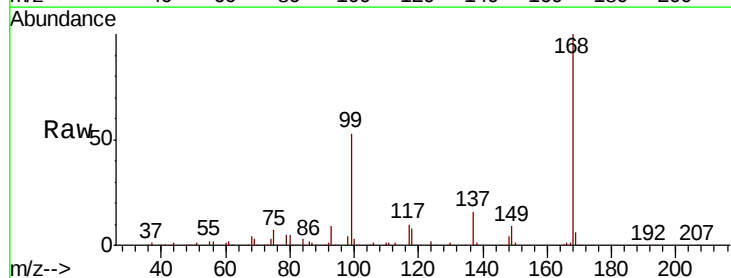
Instrument :
 MSVOA_U
 ClientSampled :
 TW-2

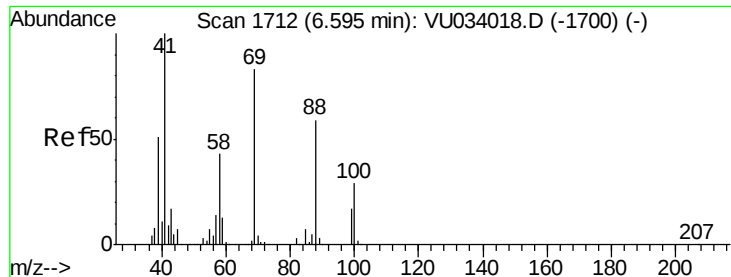
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	17.8	53.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.413 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034097.D
 Acq: 30 Aug 2019 14:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	77.0	115.4#
121	0.0	23.9	35.9#

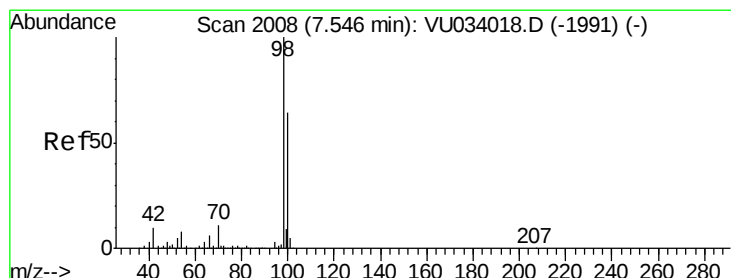
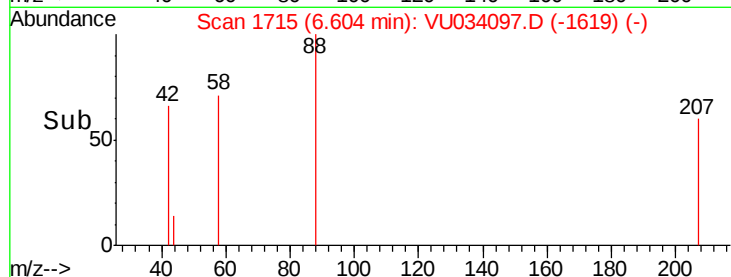
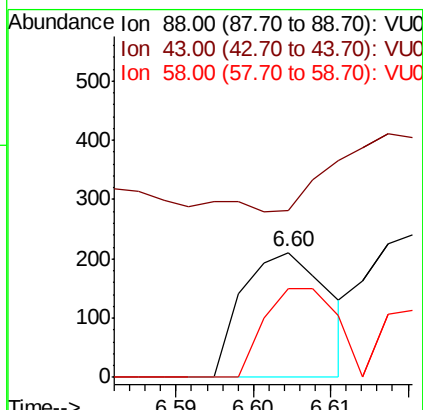
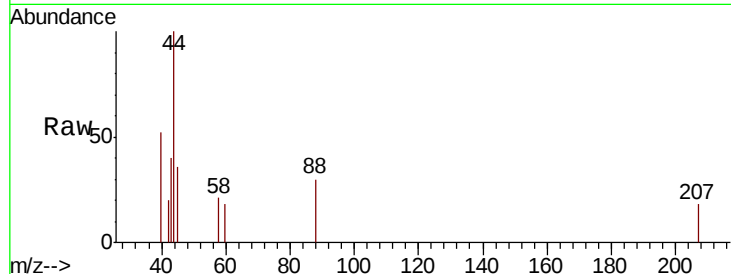




#49
1,4-Dioxane
Concen: 1.118 ug/l
RT: 6.60 min Scan# 1715
Delta R.T. 0.01 min
Lab File: VU034097.D
Acq: 30 Aug 2019 14:44

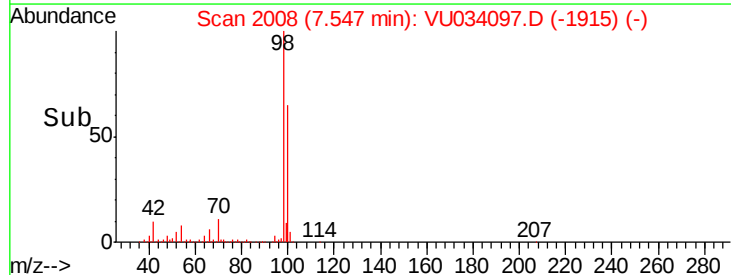
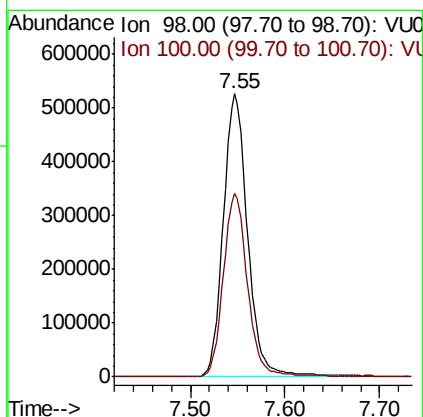
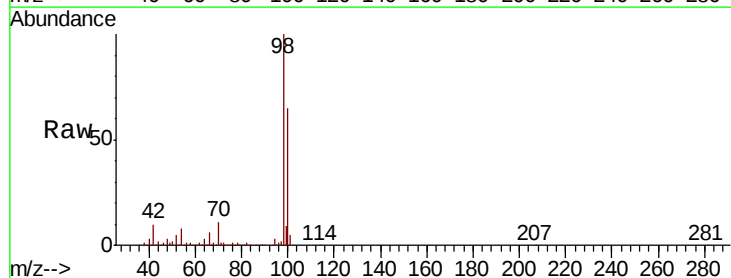
Instrument :
MSVOA_U
ClientSampleId :
TW-2

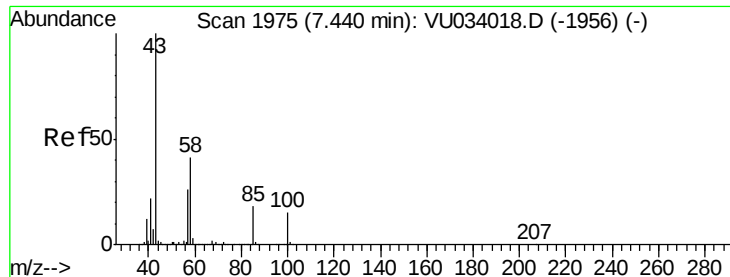
Tgt Ion: 88 Resp: 164
Ion Ratio Lower Upper
88 100
43 0.0 24.8 37.2#
58 59.1 59.3 88.9#



#50
Toluene-d8
Concen: 48.147 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034097.D
Acq: 30 Aug 2019 14:44

Tgt Ion: 98 Resp: 941153
Ion Ratio Lower Upper
98 100
100 64.8 50.3 75.5

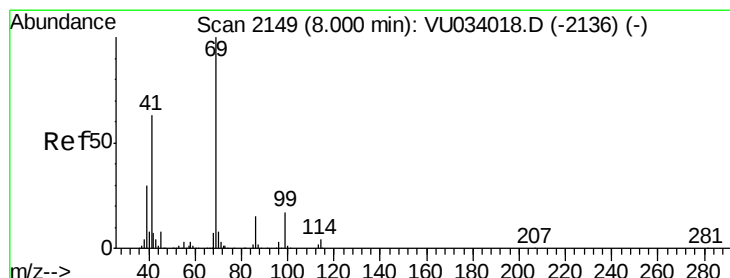
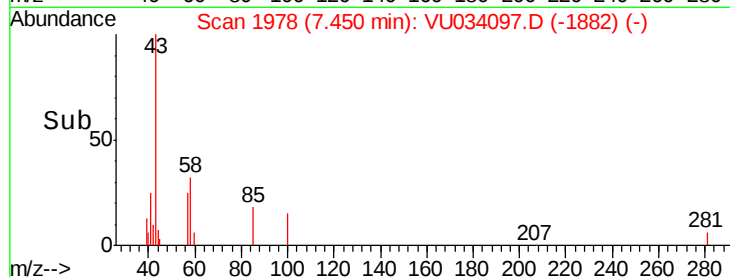
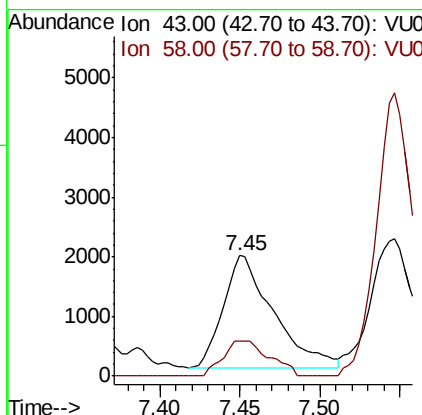
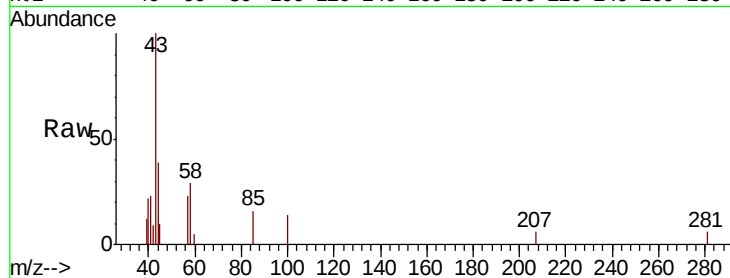




#51
 4-Methyl-2-Pentanone
 Concen: 0.477 ug/l
 RT: 7.45 min Scan# 1978
 Delta R.T. 0.01 min
 Lab File: VU034097.D
 Acq: 30 Aug 2019 14:44

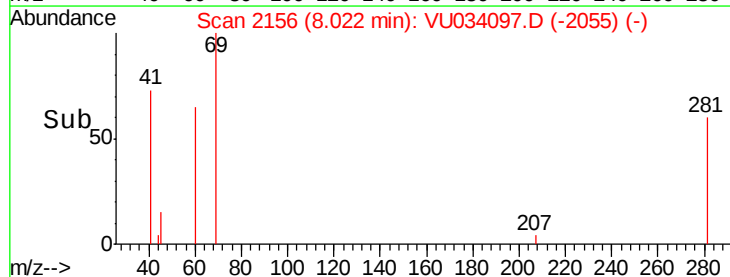
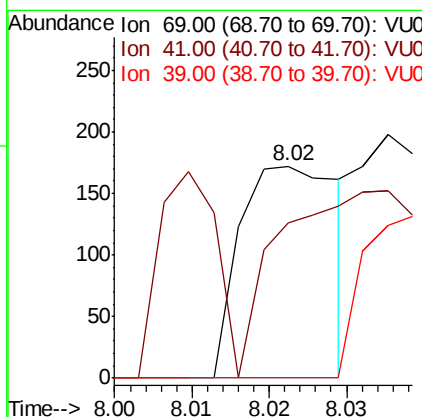
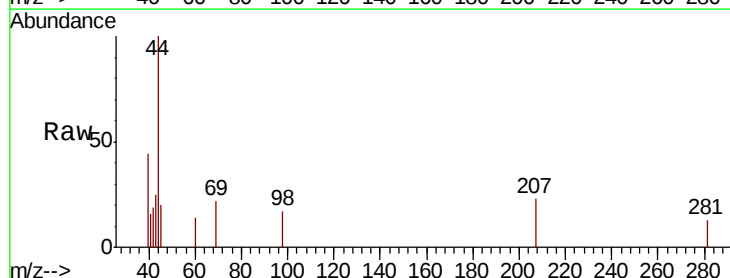
Instrument :
 MSVOA_U
 ClientSampled :
 TW-2

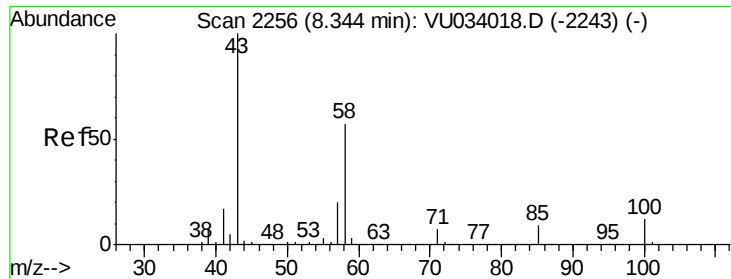
Tgt Ion: 43 Resp: 3998
 Ion Ratio Lower Upper
 43 100
 58 29.1 32.2 48.4#



#56
 Ethyl methacrylate
 Concen: 0.988 ug/l
 RT: 8.02 min Scan# 2156
 Delta R.T. 0.02 min
 Lab File: VU034097.D
 Acq: 30 Aug 2019 14:44

Tgt Ion: 69 Resp: 152
 Ion Ratio Lower Upper
 69 100
 41 132.2 50.7 76.1#
 39 45.4 24.2 36.2#

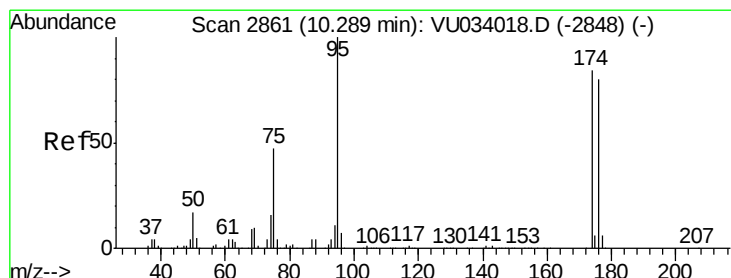
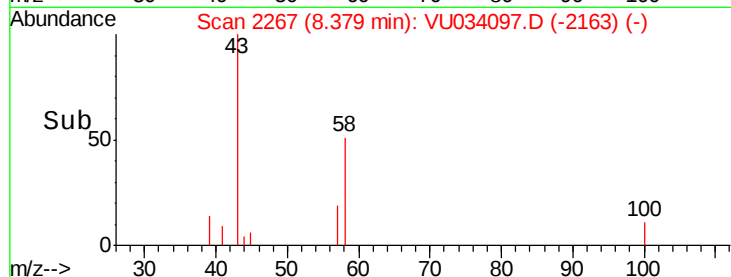
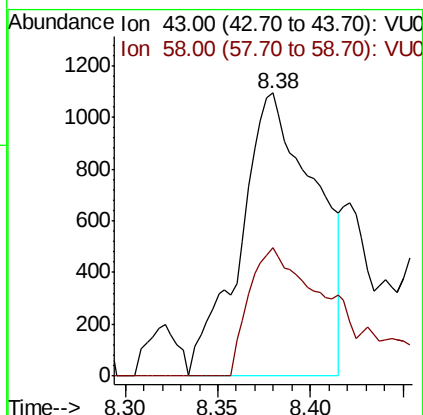
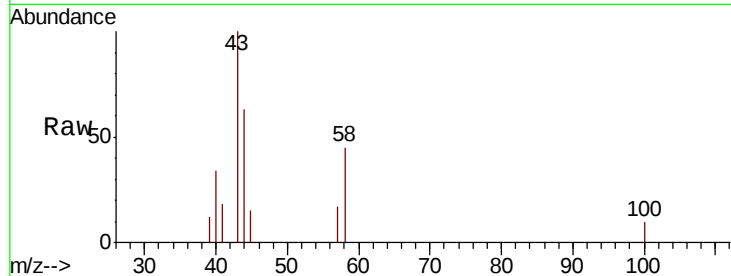




#59
2-Hexanone
Concen: 0.489 ug/l
RT: 8.38 min Scan# 2267
Delta R.T. 0.04 min
Lab File: VU034097.D
Acq: 30 Aug 2019 14:44

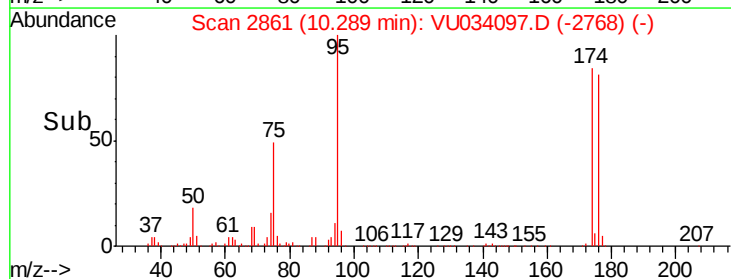
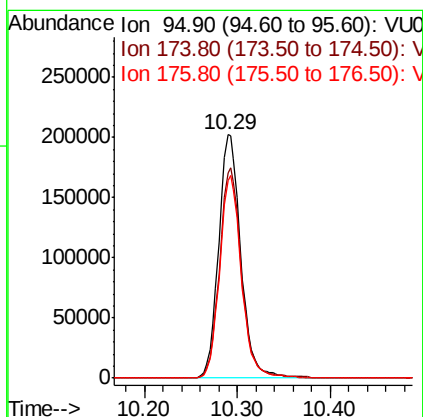
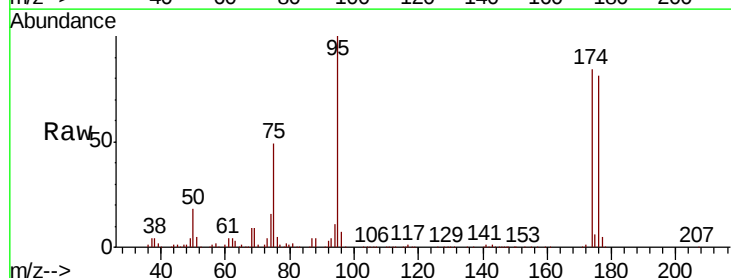
Instrument :
MSVOA_U
ClientSampled :
TW-2

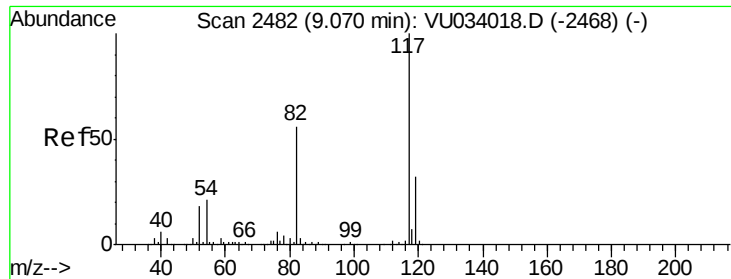
Tgt Ion: 43 Resp: 3092
Ion Ratio Lower Upper
43 100
58 44.2 28.4 85.3



#62
4-Bromofluorobenzene
Concen: 44.117 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034097.D
Acq: 30 Aug 2019 14:44

Tgt Ion: 95 Resp: 335457
Ion Ratio Lower Upper
95 100
174 86.0 0.0 168.8
176 81.8 0.0 161.8

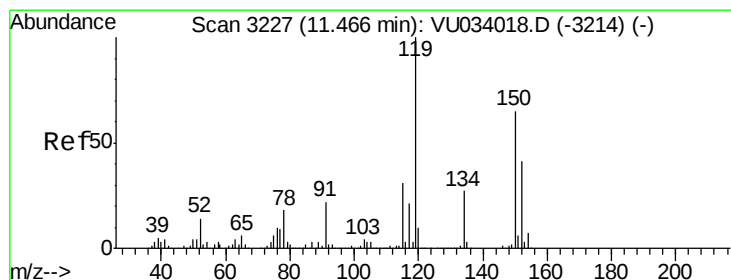
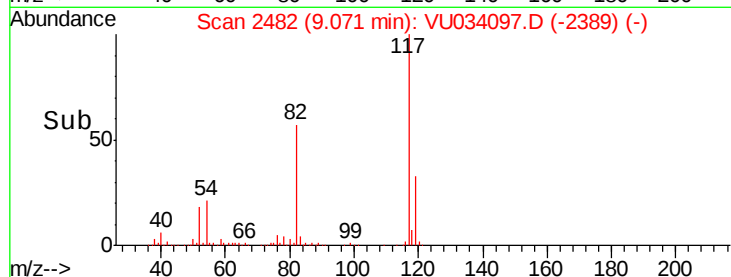
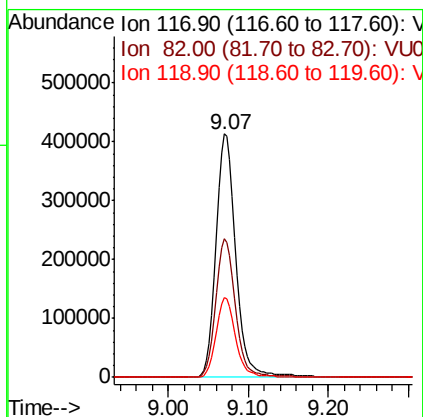
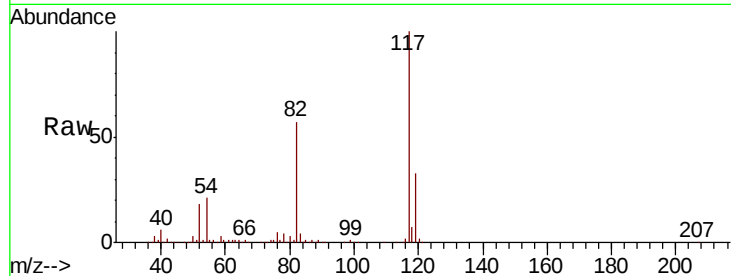




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034097.D
Acq: 30 Aug 2019 14:44

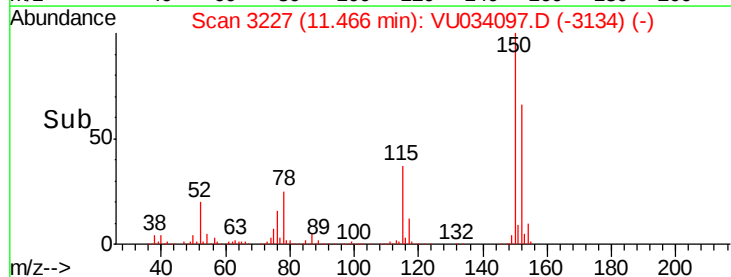
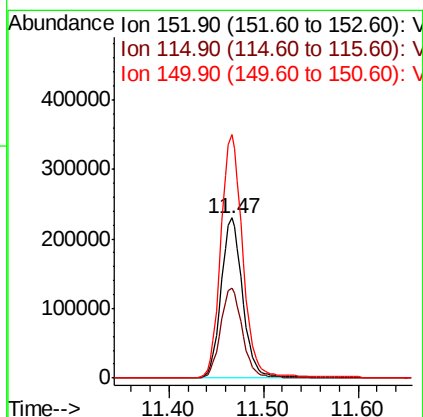
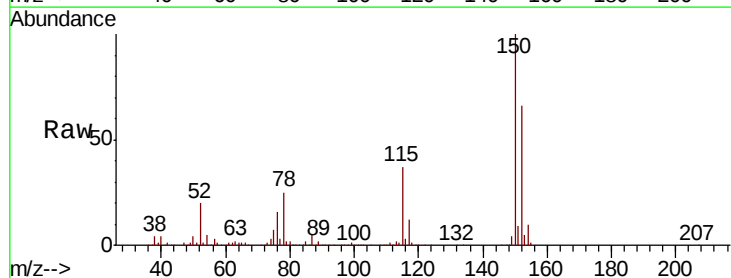
Instrument :
MSVOA_U
ClientSampled :
TW-2

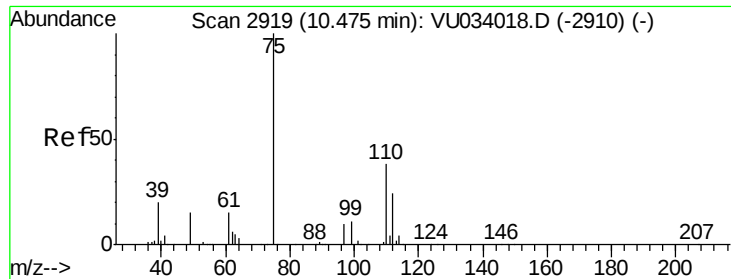
Tgt Ion:117 Resp: 716101
Ion Ratio Lower Upper
117 100
82 56.8 45.1 67.7
119 32.5 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.47 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VU034097.D
Acq: 30 Aug 2019 14:44

Tgt Ion:152 Resp: 366469
Ion Ratio Lower Upper
152 100
115 57.1 41.1 123.3
150 154.1 0.0 348.8





#76

1,2,3-Trichloropropane

Concen: 20.007 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034097.D

Acq: 30 Aug 2019 14:44

Instrument :

MSVOA_U

ClientSampled :

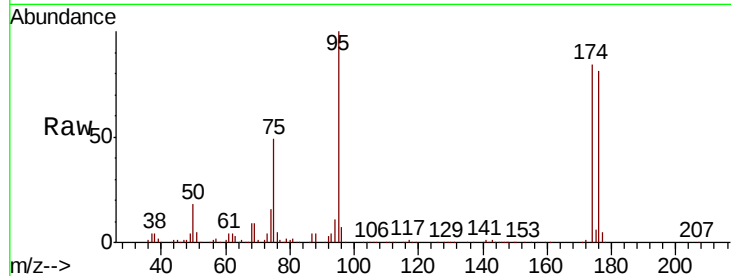
TW-2

Tgt Ion: 75 Resp: 165247

Ion Ratio Lower Upper

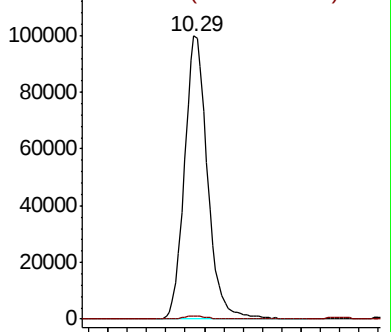
75 100

77 1.2 20.1 60.2#

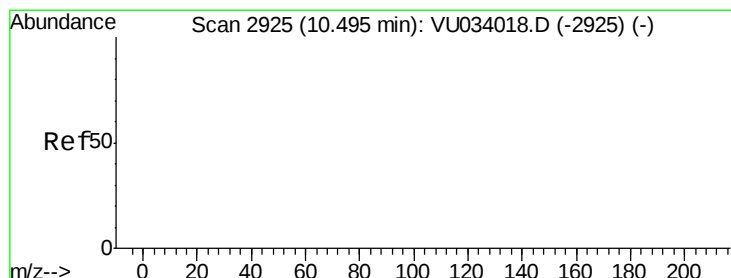
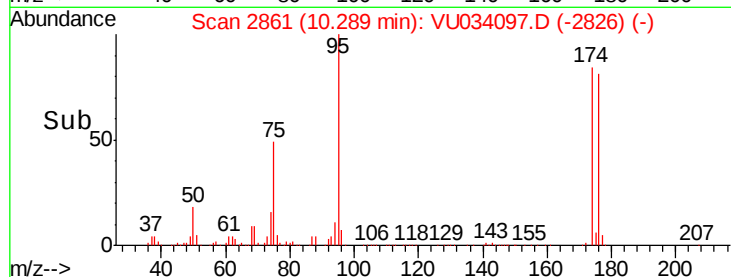


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 67.367 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034097.D

Acq: 30 Aug 2019 14:44

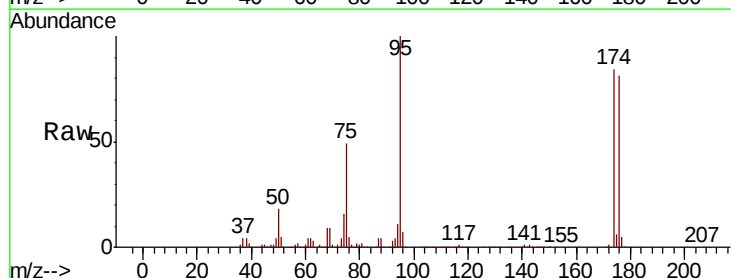
Tgt Ion: 75 Resp: 165247

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0#

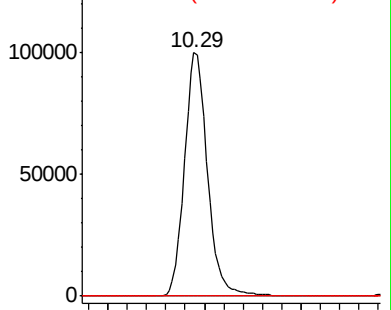
89 0.0 0.0 0.0



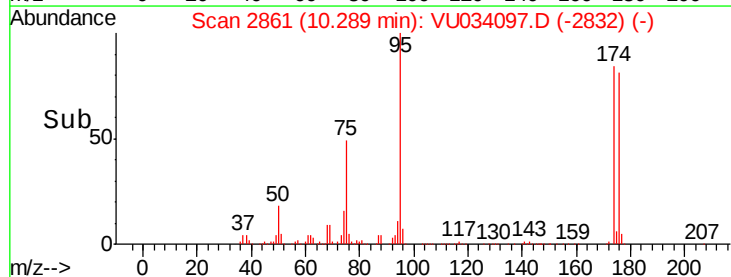
Abundance Ion 74.90 (74.60 to 75.60): VU0

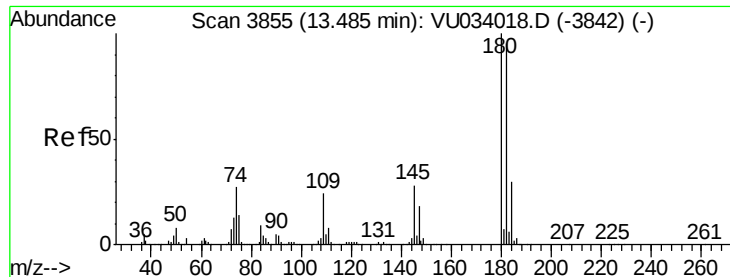
Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0



Time-->

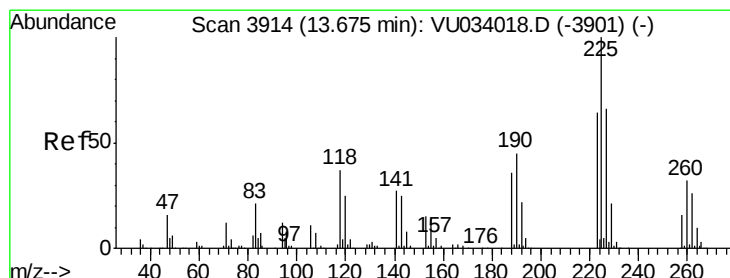
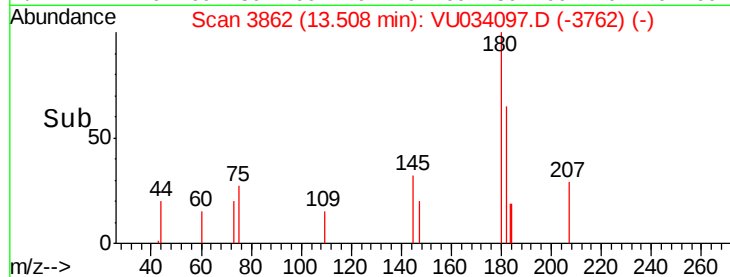
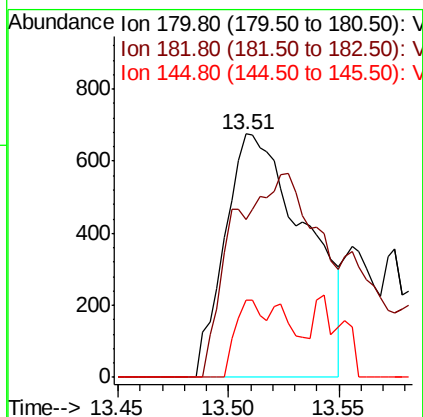
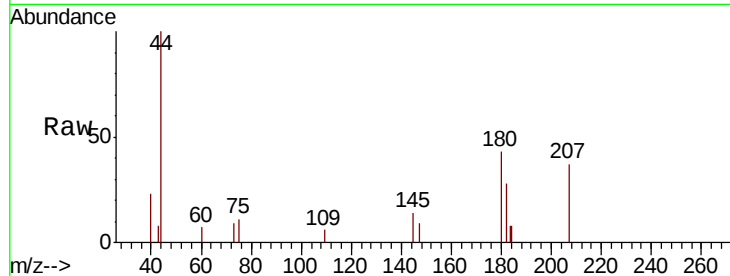




#93
 1,2,4-Trichlorobenzene
 Concen: 1.323 ug/l
 RT: 13.51 min Scan# 3862
 Delta R.T. 0.02 min
 Lab File: VU034097.D
 Acq: 30 Aug 2019 14:44

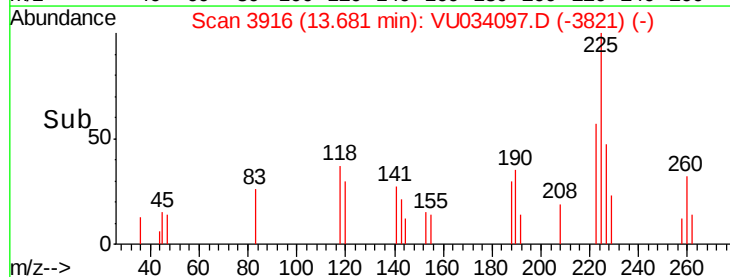
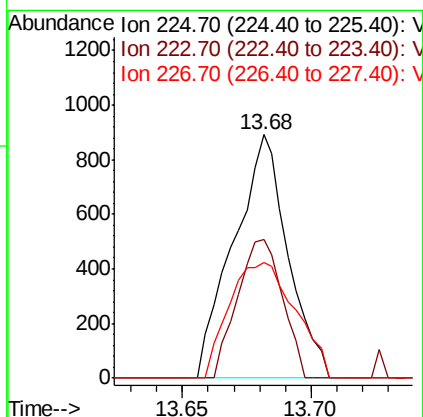
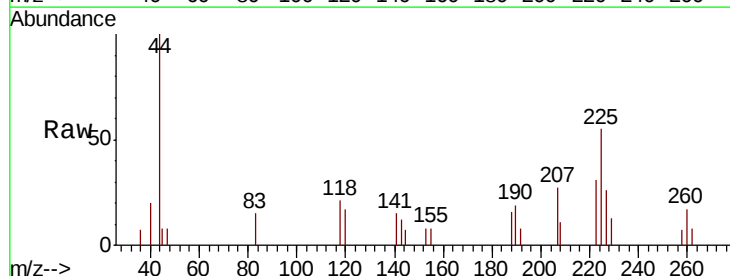
Instrument :
 MSVOA_U
 ClientSampled :
 TW-2

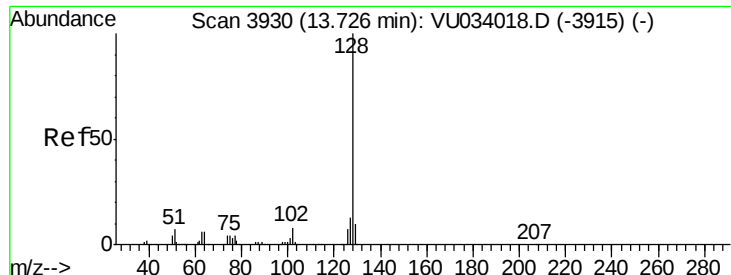
Tgt Ion:180 Resp: 1709
 Ion Ratio Lower Upper
 180 100
 182 22.9 47.4 142.2#
 145 11.7 14.1 42.3#



#94
 Hexachlorobutadiene
 Concen: 0.298 ug/l
 RT: 13.68 min Scan# 3916
 Delta R.T. 0.01 min
 Lab File: VU034097.D
 Acq: 30 Aug 2019 14:44

Tgt Ion:225 Resp: 1309
 Ion Ratio Lower Upper
 225 100
 223 47.2 31.8 95.3
 227 57.8 32.6 97.8





#95

Naphthalene

Concen: 2.168 ug/l

RT: 13.76 min Scan# 3939

Delta R.T. 0.03 min

Lab File: VU034097.D

Acq: 30 Aug 2019 14:44

Instrument :

MSVOA_U

ClientSampleId :

TW-2

Tgt Ion:128 Resp: 8973

Ion Ratio Lower Upper

128 100

127 8.6 10.2 15.4#

129 8.0 8.4 12.6#

