

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090719\
 Data File : VU034334.D
 Acq On : 06 Sep 2019 16:34
 Operator : JC/SP
 Sample : K4669-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

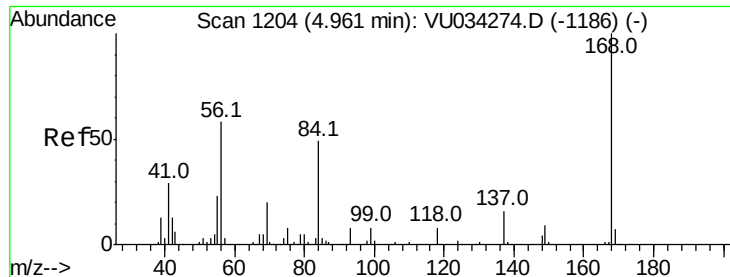
Quant Time: Sep 06 17:12:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	311053	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	477113	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	477715	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	282711	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	242986	51.63	ug/l	0.00
Spiked Amount			Recovery	=	103.26%	
35) Dibromofluoromethane	4.86	113	214613	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
50) Toluene-d8	7.55	98	837888	50.23	ug/l	0.00
Spiked Amount			Recovery	=	100.46%	
62) 4-Bromofluorobenzene	10.29	95	301216	46.77	ug/l	0.00
Spiked Amount			Recovery	=	93.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	498	Below Cal		81
6) Chloroethane	1.66	64	235	Below Cal	#	43
10) Methyl Iodide	2.41	142	116	3.879	ug/l #	43
11) Tert butyl alcohol	2.82	59	4801	4.829	ug/l #	73
16) Acetone	2.31	43	11375	4.671	ug/l	93
18) Methyl Acetate	2.61	43	3086	0.521	ug/l	97
20) Methylene Chloride	2.69	84	50967	12.476	ug/l	99
31) Cyclohexane	4.96	56	4804	0.871	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	20329	3.929	ug/l #	48
38) Carbon Tetrachloride	4.96	117	27688	5.012	ug/l #	15
43) Isopropyl Acetate	5.53	43	76757	8.043	ug/l	98
48) Methyl methacrylate	6.68	41	123812	27.315	ug/l #	36
49) 1,4-Dioxane	6.69	88	126	1.273	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	67755	10.256	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	36369	5.069	ug/l #	62
56) Ethyl methacrylate	7.98	69	118	3.092	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	6710	0.866	ug/l #	43
59) 2-Hexanone	8.40	43	81419	16.498	ug/l #	52
74) N-amyl acetate	9.92	43	2286	0.309	ug/l #	44
76) 1,2,3-Trichloropropane	10.29	75	142737	23.130	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	142737	77.785	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.50	180	42	3.457	ug/l #	1
95) Naphthalene	13.73	128	54219	6.615	ug/l	99
96) 1,2,3-Trichlorobenzene	13.97	180	43	2.645	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034334.D

Acq: 06 Sep 2019 16:34

Instrument :

MSVOA_U

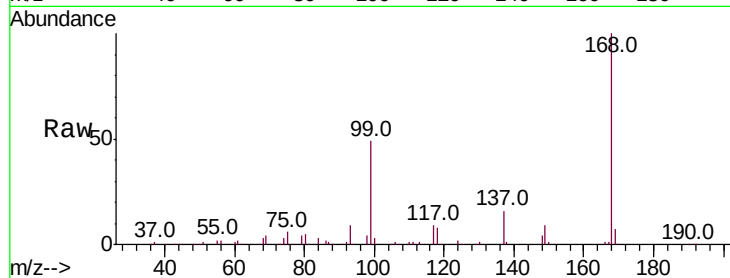
ClientSampleId :

Tot Ion:168 Resp: 311053

Ion Ratio Lower Upper

168 100

99 49.4 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034274.D (-1186) (-)

4.96

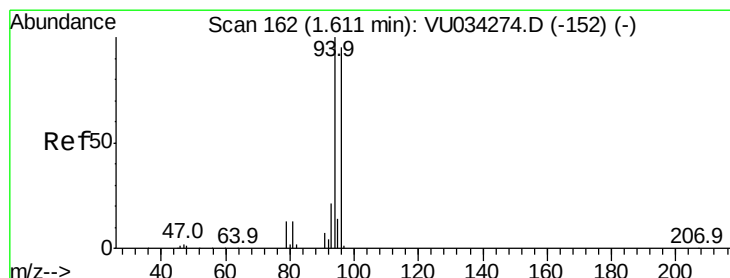
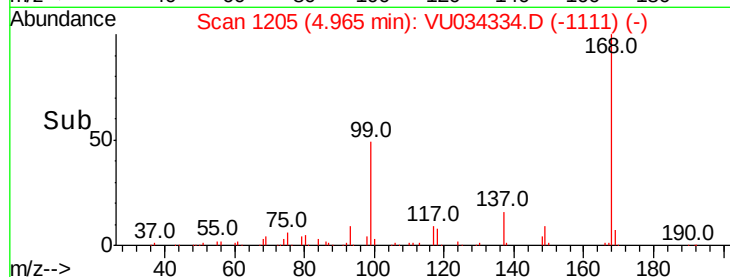
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.02 min

Lab File: VU034334.D

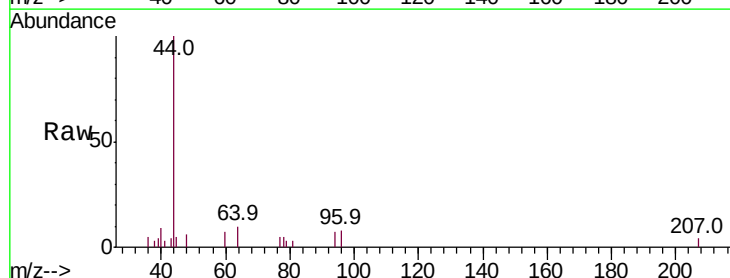
Acq: 06 Sep 2019 16:34

Tgt Ion: 94 Resp: 498

Ion Ratio Lower Upper

94 100

96 113.2 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VU034274.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034274.D (-152) (-)

1.63

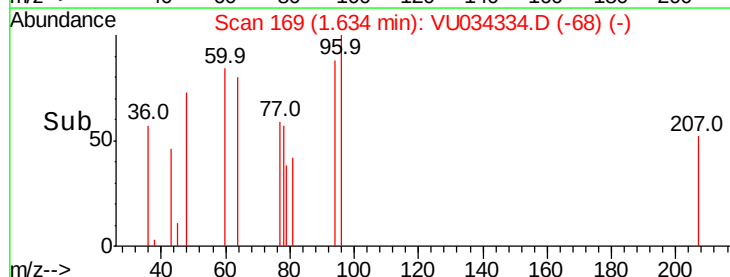
300

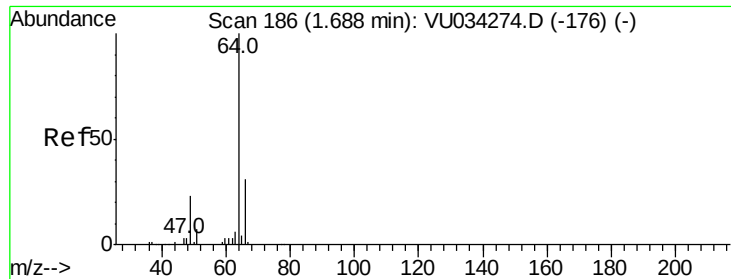
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.66 min Scan# 178

Delta R.T. -0.03 min

Lab File: VU034334.D

Acq: 06 Sep 2019 16:34

Instrument :

MSVOA_U

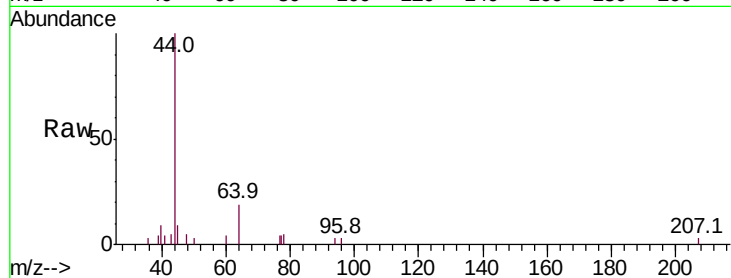
ClientSampleId :

Tot Ion: 64 Resp: 235

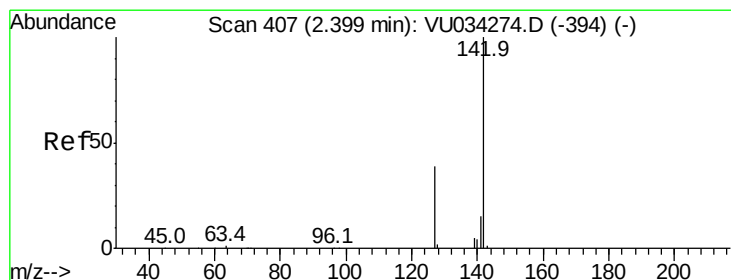
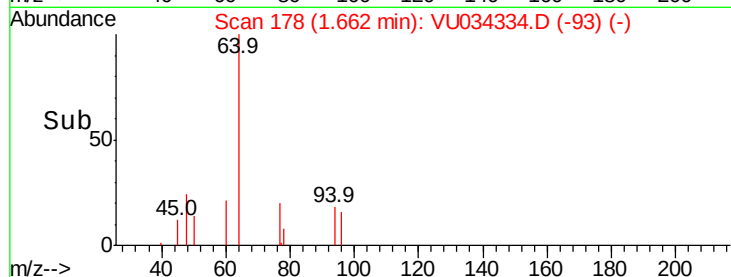
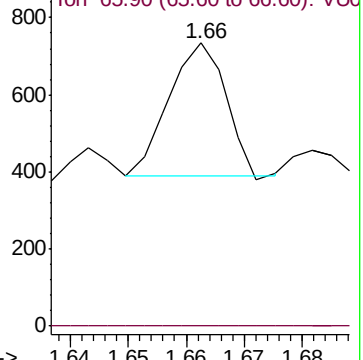
Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU034274.D (-176) (-)



#10

Methyl Iodide

Concen: 3.879 ug/l

RT: 2.41 min Scan# 409

Delta R.T. 0.01 min

Lab File: VU034334.D

Acq: 06 Sep 2019 16:34

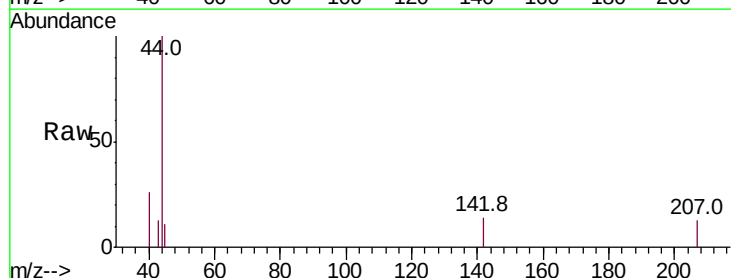
Tgt Ion: 142 Resp: 116

Ion Ratio Lower Upper

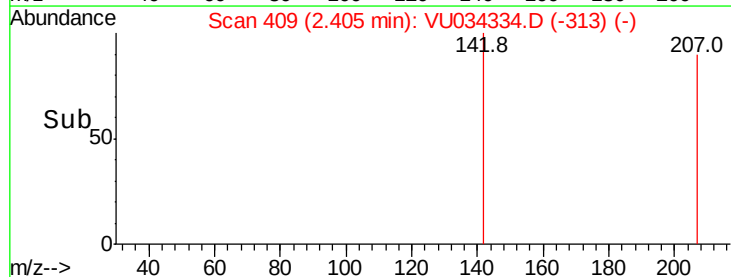
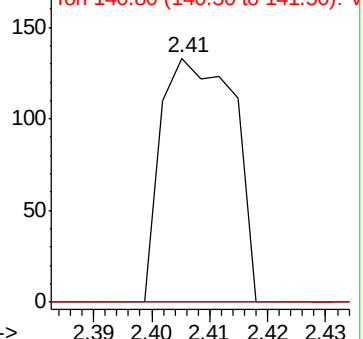
142 100

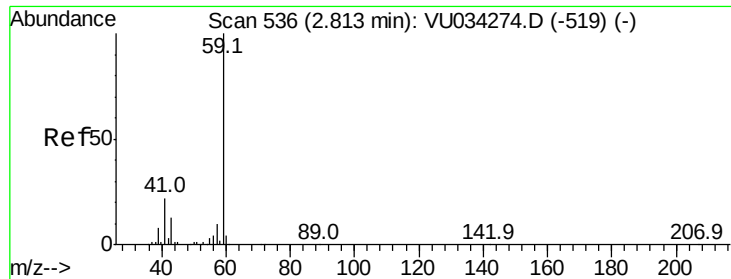
127 0.0 32.1 48.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VU034274.D (-394) (-)

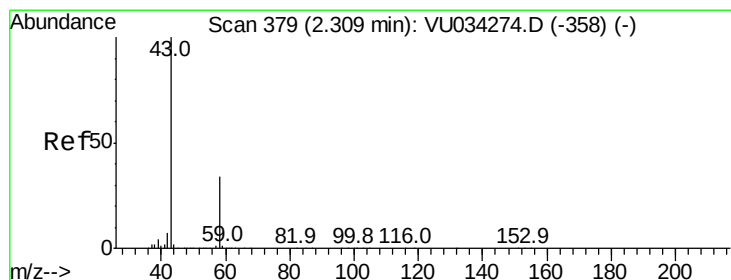
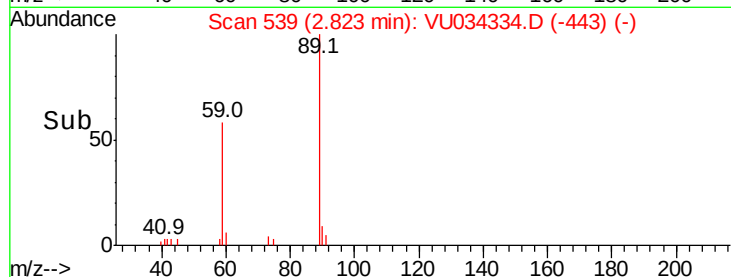
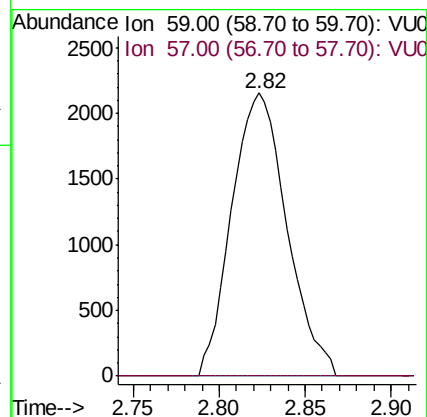
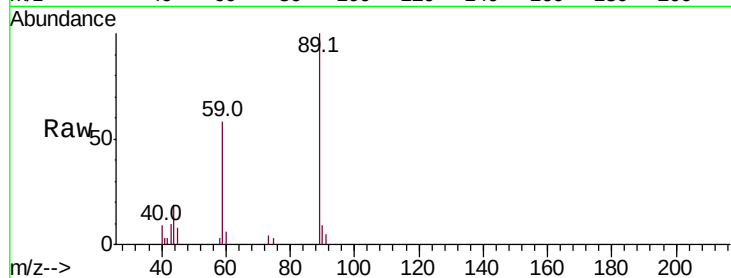




#11
Tert butyl alcohol
Concen: 4.829 ug/l
RT: 2.82 min Scan# 539
Delta R.T. 0.01 min
Lab File: VU034334.D
Acq: 06 Sep 2019 16:34

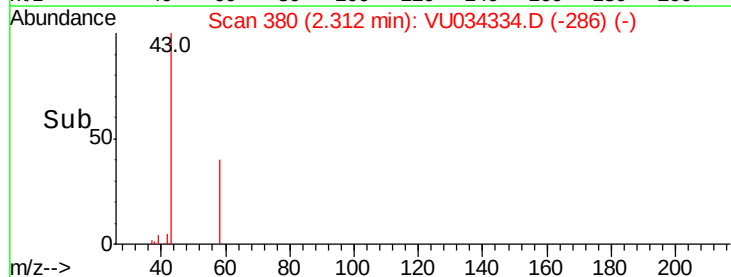
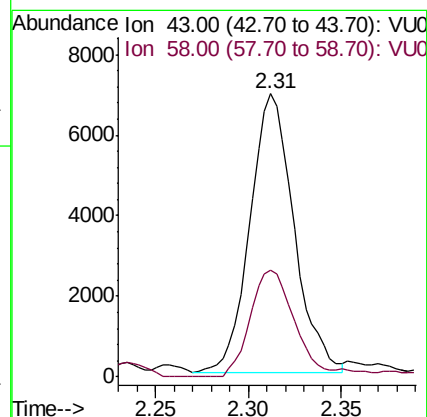
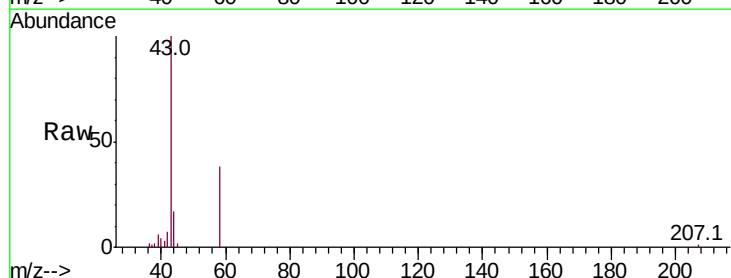
Instrument :
MSVOA_U
ClientSampleId :

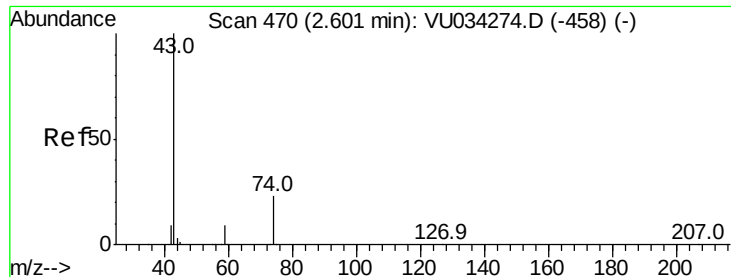
Tot Ion: 59 Resp: 4801
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#16
Acetone
Concen: 4.671 ug/l
RT: 2.31 min Scan# 380
Delta R.T. 0.00 min
Lab File: VU034334.D
Acq: 06 Sep 2019 16:34

Tgt Ion: 43 Resp: 11375
Ion Ratio Lower Upper
43 100
58 38.5 27.6 41.4

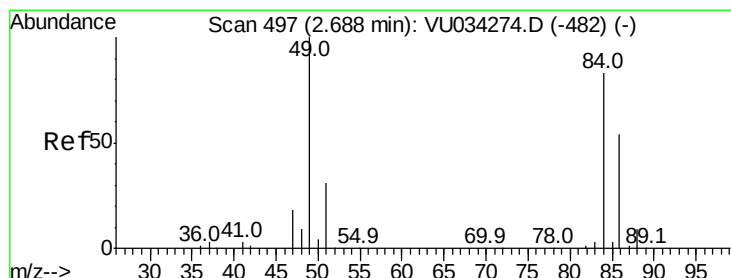
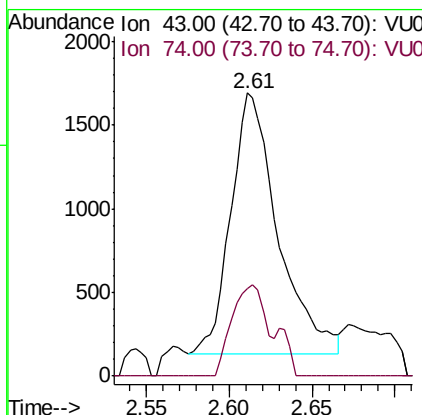
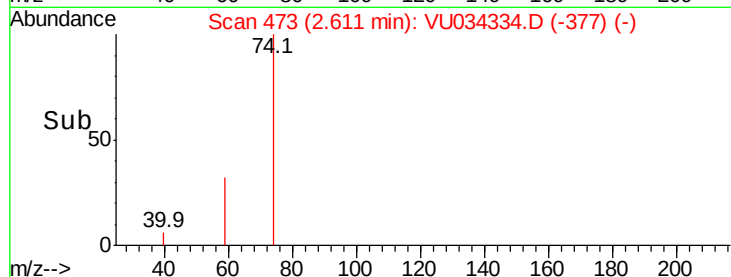
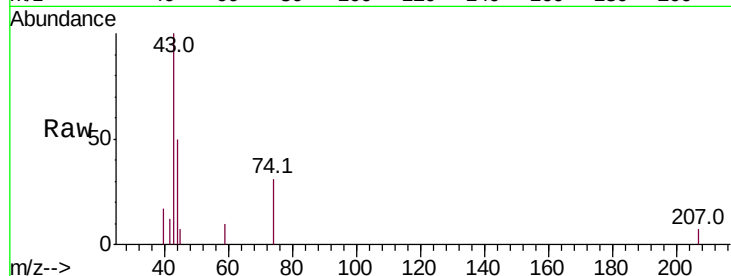




#18
Methyl Acetate
Concen: 0.521 ug/l
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU034334.D
Acq: 06 Sep 2019 16:34

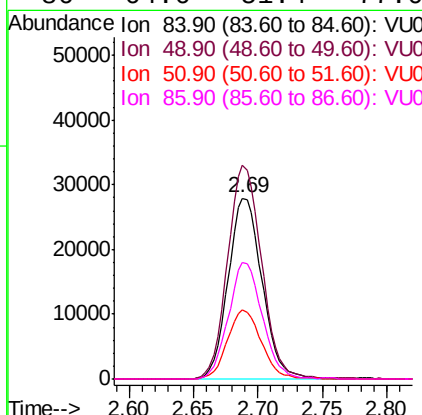
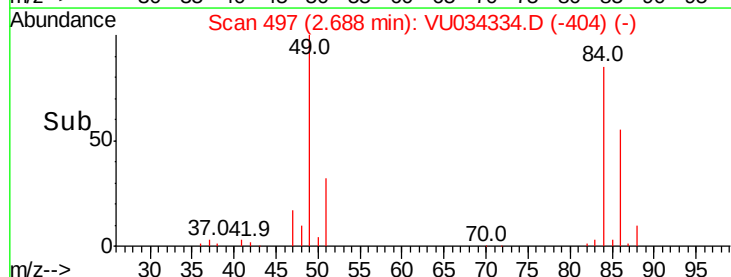
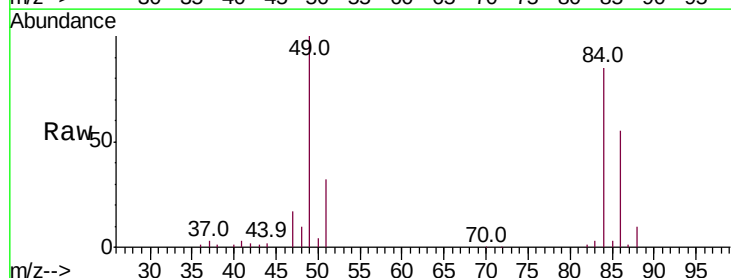
Instrument :
MSVOA_U
ClientSampleId :

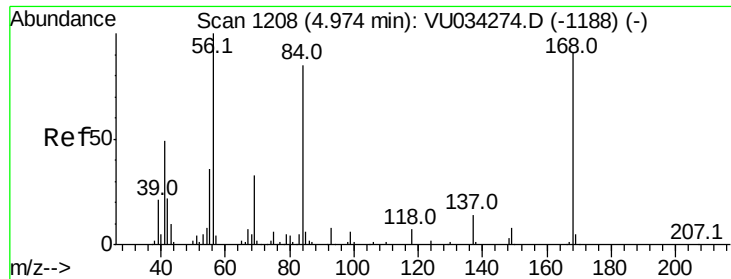
Tot Ion: 43 Resp: 3086
Ion Ratio Lower Upper
43 100
74 25.2 18.9 28.3



#20
Methylene Chloride
Concen: 12.476 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034334.D
Acq: 06 Sep 2019 16:34

Tgt Ion: 84 Resp: 50967
Ion Ratio Lower Upper
84 100
49 118.1 96.0 144.0
51 37.9 30.0 45.0
86 64.6 51.4 77.0

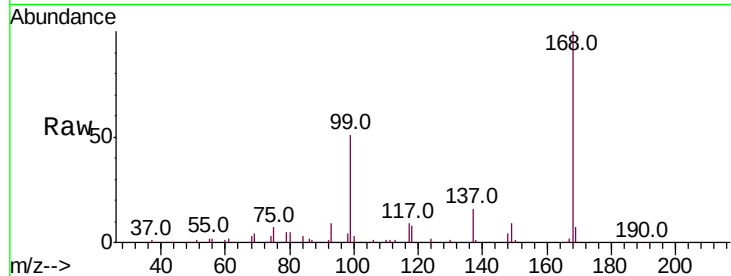




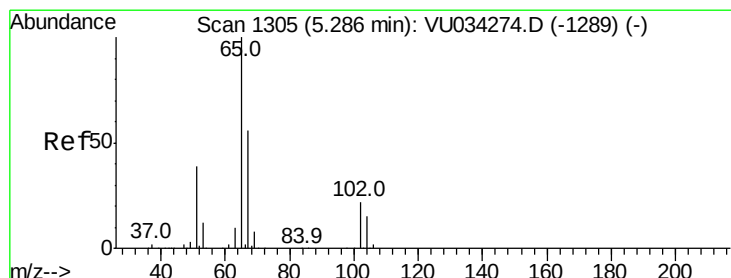
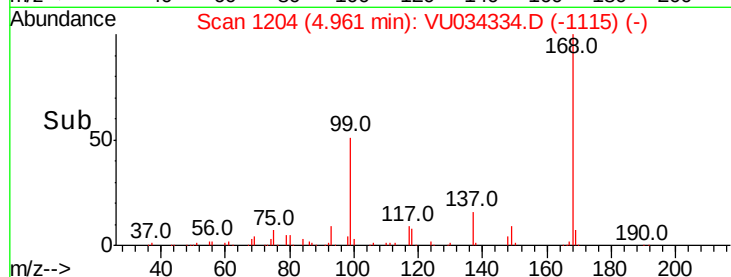
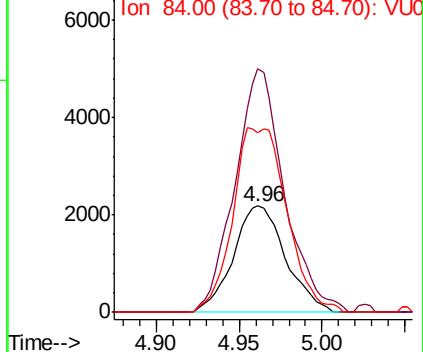
#31
Cyclohexane
Concen: 0.871 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034334.D
Acq: 06 Sep 2019 16:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 4804
Ion Ratio Lower Upper
56 100
69 228.4 26.7 40.1#
84 168.4 68.2 102.4#

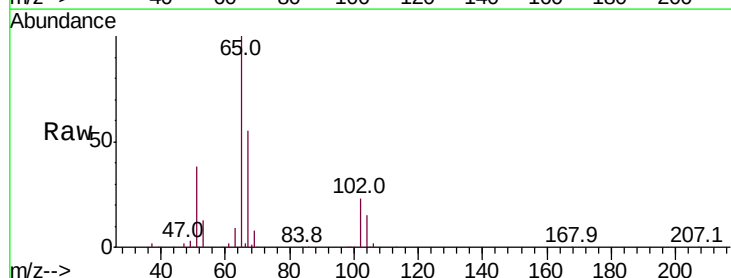


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

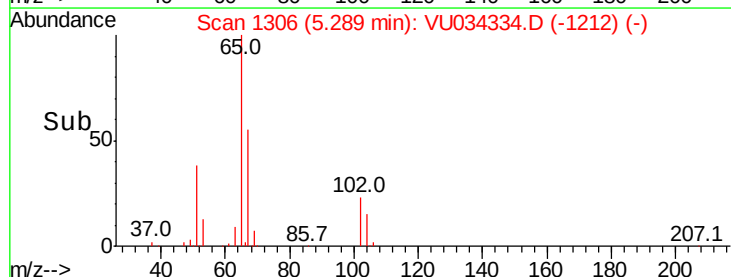
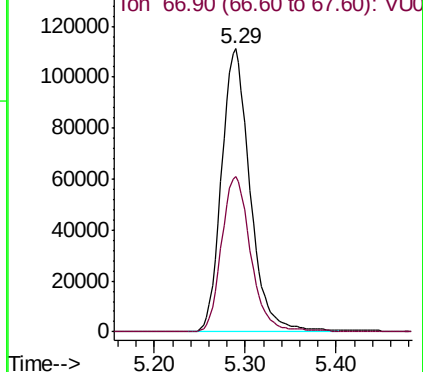


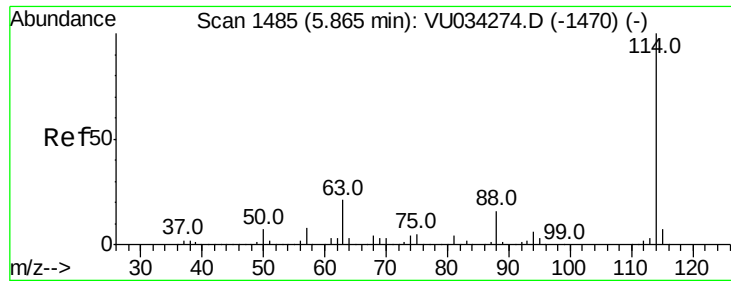
#33
1,2-Dichloroethane-d4
Concen: 51.630 ug/l
RT: 5.29 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU034334.D
Acq: 06 Sep 2019 16:34

Tgt Ion: 65 Resp: 242986
Ion Ratio Lower Upper
65 100
67 55.9 0.0 112.4



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

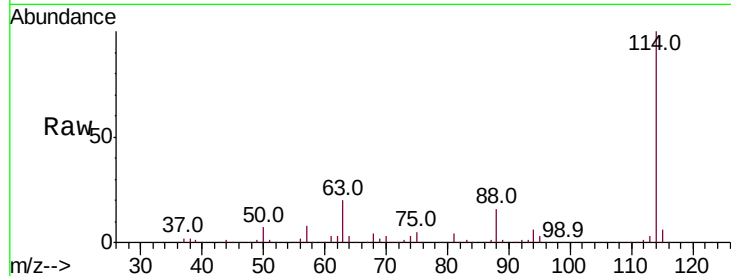




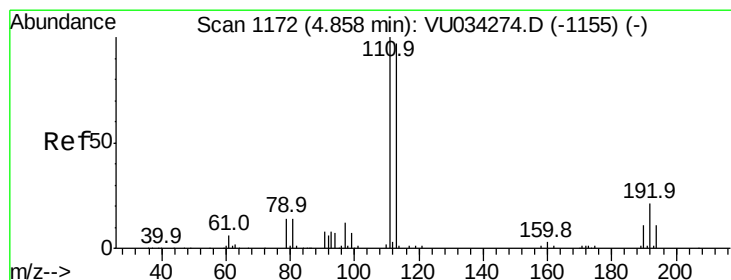
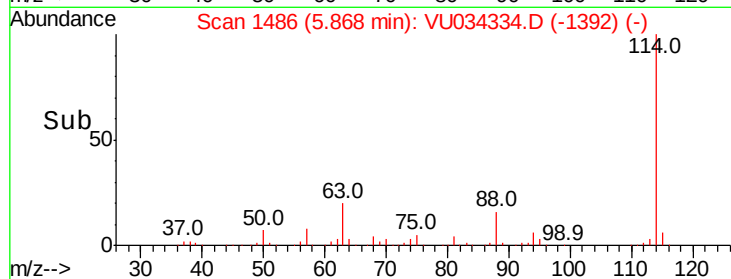
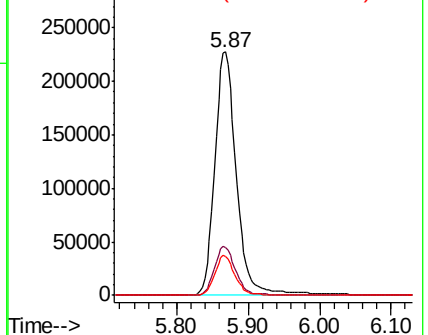
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034334.D
 Acq: 06 Sep 2019 16:34

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:114 Resp: 477113
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 42.4
 88 16.0 0.0 32.4

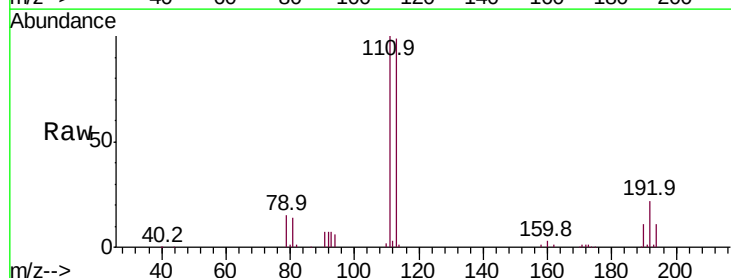


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

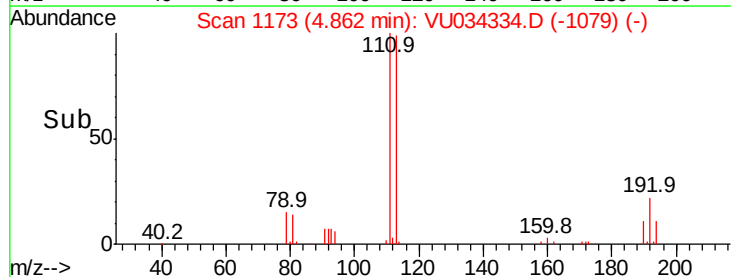
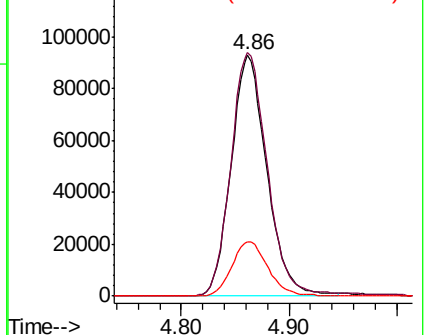


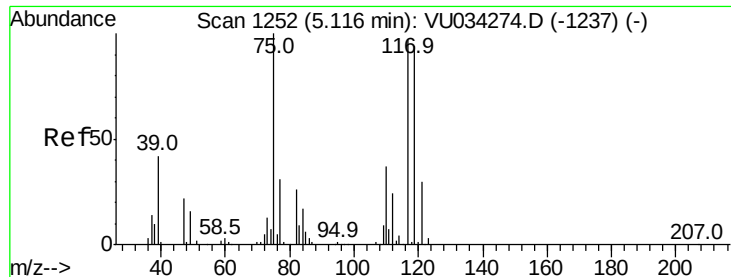
#35
 Dibromofluoromethane
 Concen: 48.341 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034334.D
 Acq: 06 Sep 2019 16:34

Tgt Ion:113 Resp: 214613
 Ion Ratio Lower Upper
 113 100
 111 104.5 81.5 122.3
 192 22.8 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

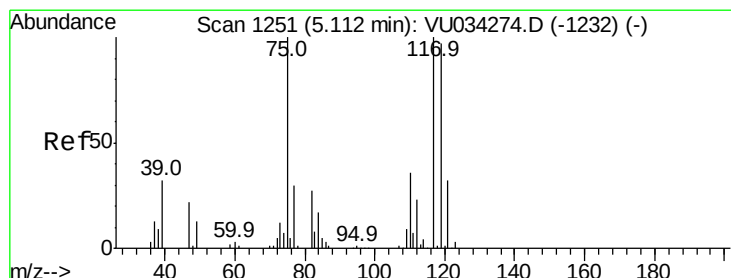
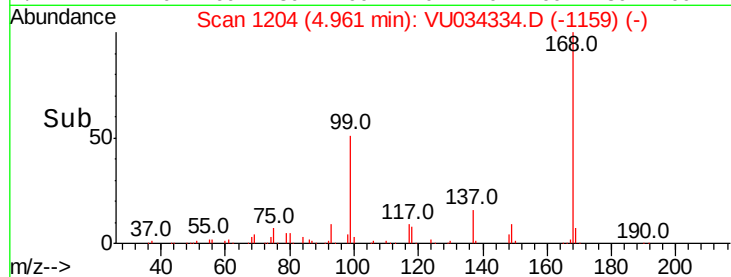
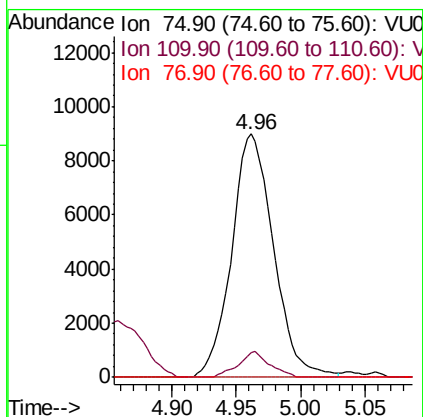
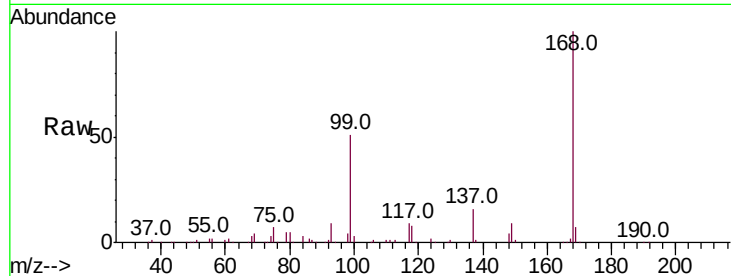




#36
 1,1-Dichloropropene
 Concen: 3.929 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034334.D
 Acq: 06 Sep 2019 16:34

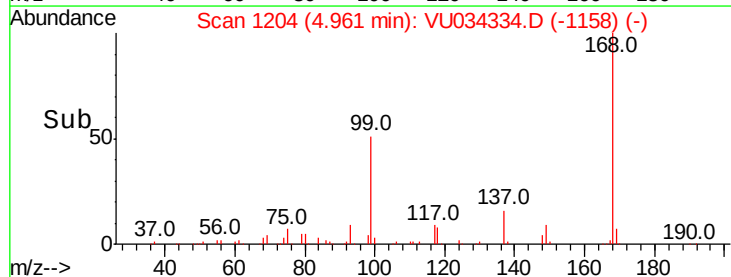
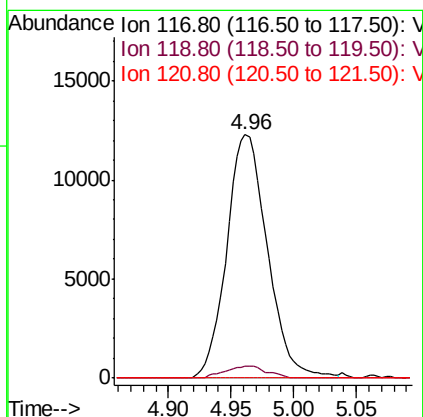
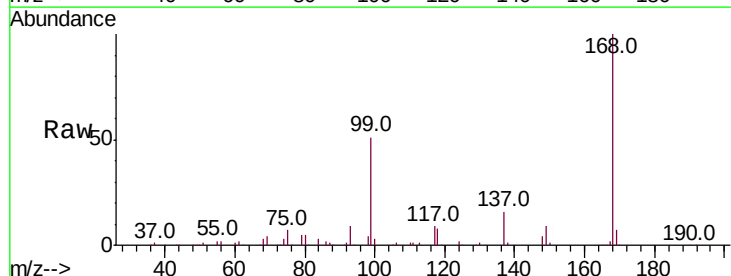
Instrument :
 MSVOA_U
 ClientSampled :

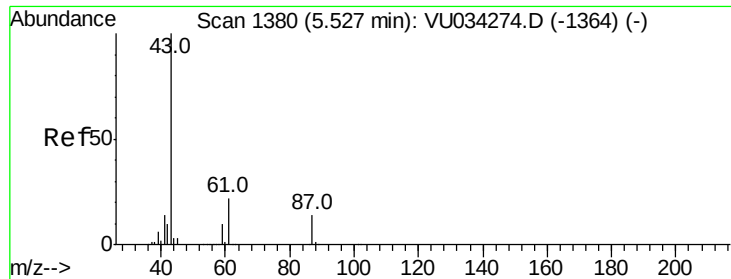
Tot Ion: 75 Resp: 20329
 Ion Ratio Lower Upper
 75 100
 110 7.9 18.3 54.9#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 5.012 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034334.D
 Acq: 06 Sep 2019 16:34

Tgt Ion: 117 Resp: 27688
 Ion Ratio Lower Upper
 117 100
 119 4.9 77.8 116.6#
 121 0.0 25.2 37.8#





#43

Isopropyl Acetate

Concen: 8.043 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034334.D

Acq: 06 Sep 2019 16:34

Instrument :

MSVOA_U

ClientSampleId :

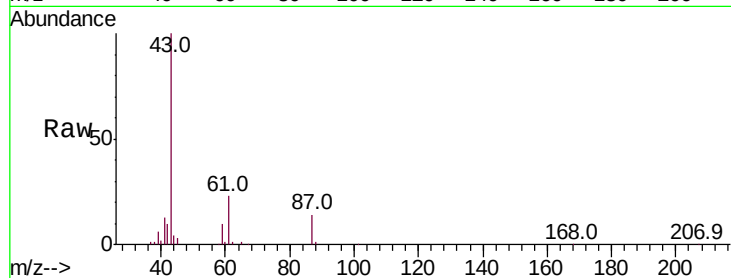
Tot Ion: 43 Resp: 76757

Ion Ratio Lower Upper

43 100

61 22.9 17.1 25.7

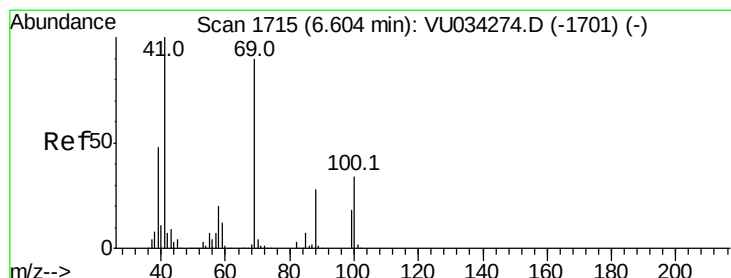
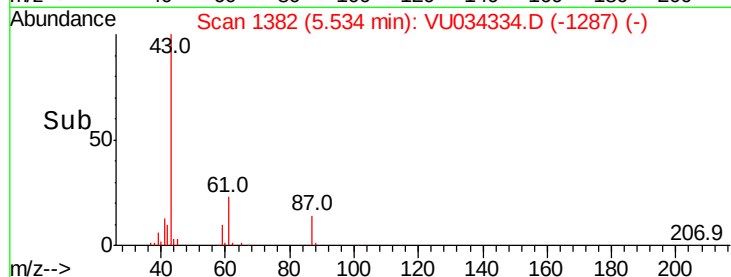
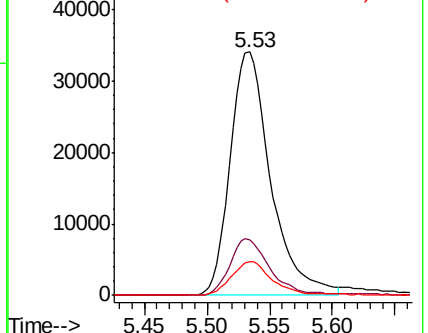
87 13.6 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VU034334.D (-1382) (-)

Ion 61.00 (60.70 to 61.70): VU034334.D (-1382) (-)

Ion 87.00 (86.70 to 87.70): VU034334.D (-1382) (-)



#48

Methyl methacrylate

Concen: 27.315 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.08 min

Lab File: VU034334.D

Acq: 06 Sep 2019 16:34

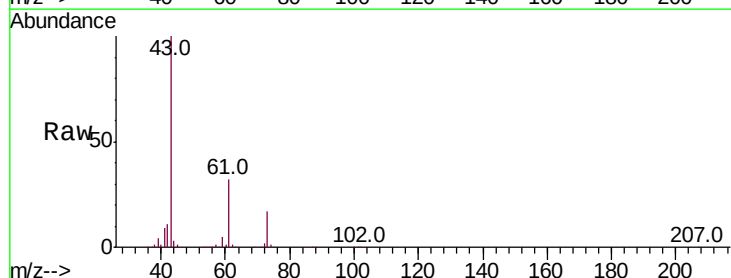
Tgt Ion: 41 Resp: 123812

Ion Ratio Lower Upper

41 100

69 0.1 72.8 109.2#

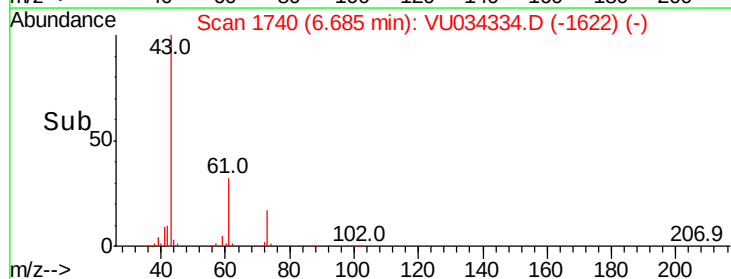
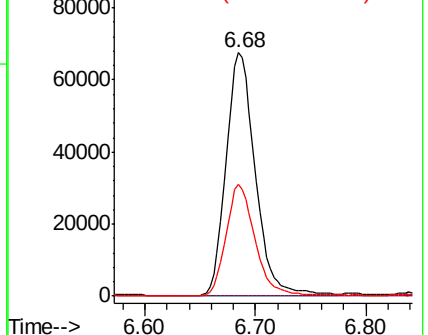
39 46.2 38.6 58.0

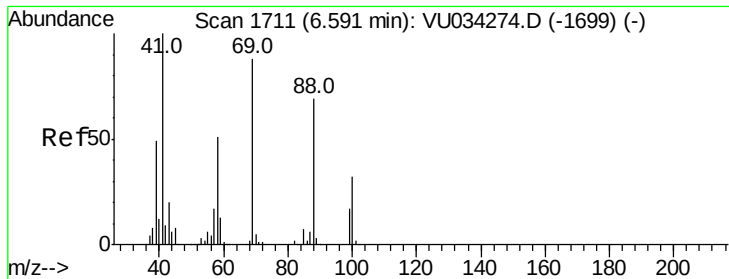


Abundance Ion 41.00 (40.70 to 41.70): VU034334.D (-1740) (-)

Ion 69.00 (68.70 to 69.70): VU034334.D (-1740) (-)

Ion 39.00 (38.70 to 39.70): VU034334.D (-1740) (-)





#49

1,4-Dioxane

Concen: 1.273 ug/l

RT: 6.69 min Scan# 1741

Delta R.T. 0.10 min

Lab File: VU034334.D

Acq: 06 Sep 2019 16:34

Instrument :
MSVOA_U
ClientSampleId :

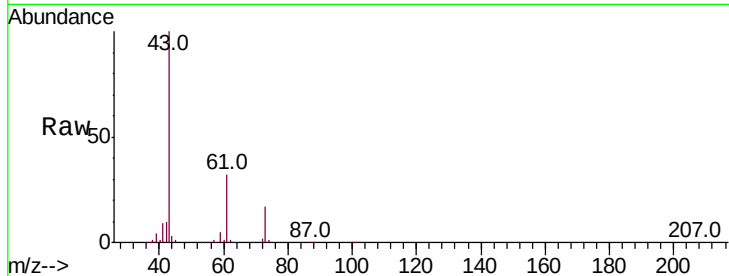
Tot Ion: 88 Resp: 126

Ion Ratio Lower Upper

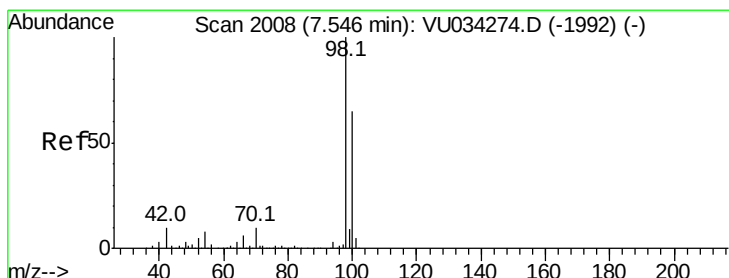
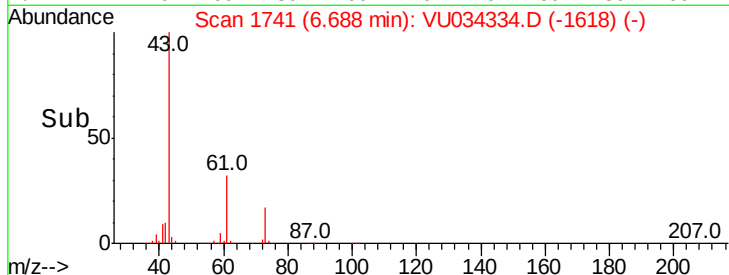
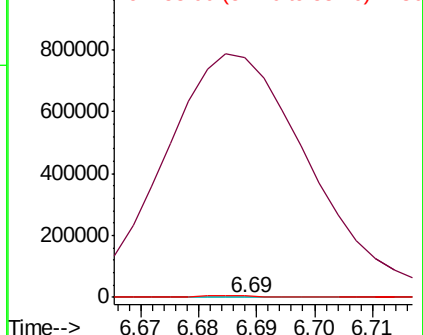
88 100

43 1150859.5 23.8 35.6#

58 5396.8 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0



#50

Toluene-d8

Concen: 50.235 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034334.D

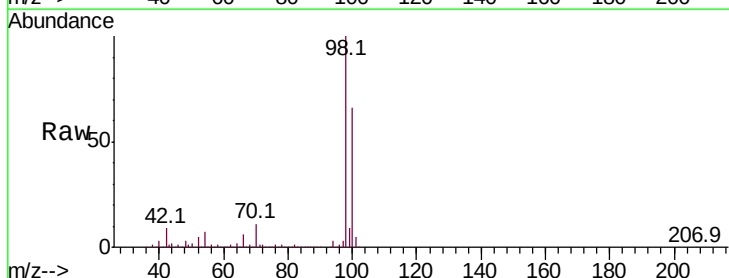
Acq: 06 Sep 2019 16:34

Tgt Ion: 98 Resp: 837888

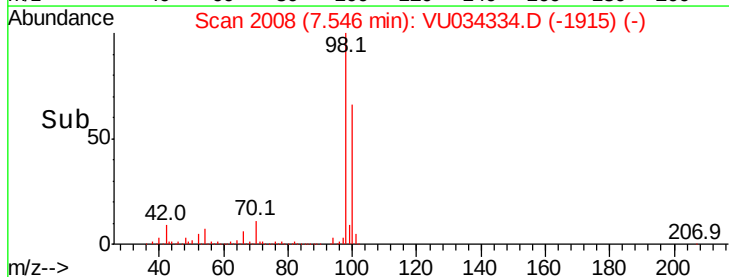
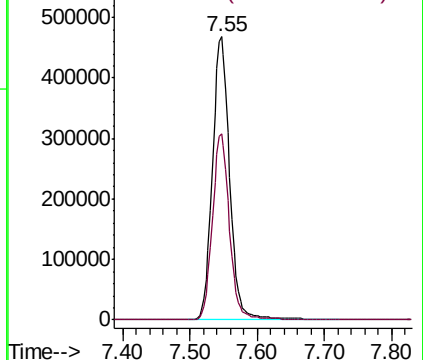
Ion Ratio Lower Upper

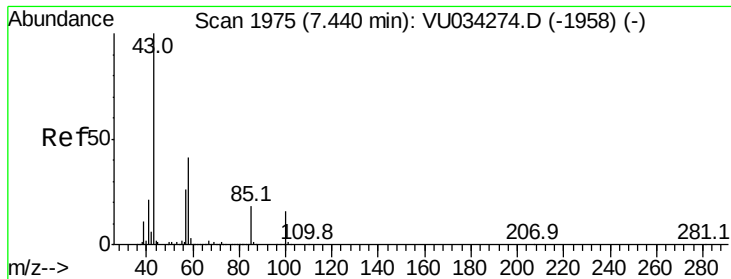
98 100

100 64.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 10.256 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034334.D

Acq: 06 Sep 2019 16:34

Instrument :

MSVOA_U

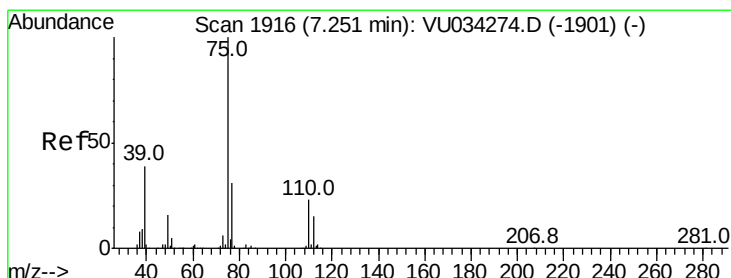
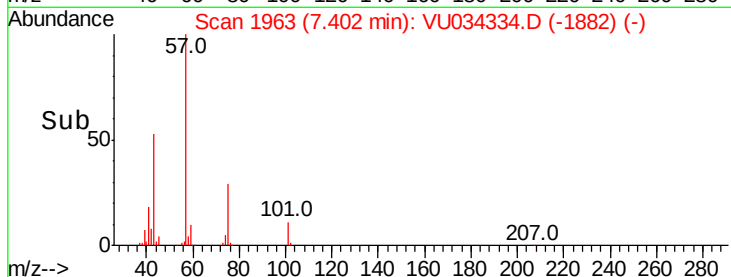
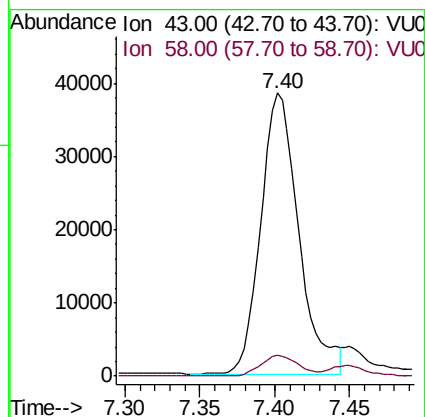
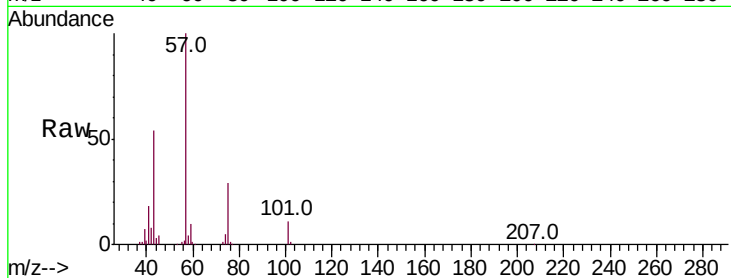
ClientSampleId :

Tot Ion: 43 Resp: 67755

Ion Ratio Lower Upper

43 100

58 7.2 33.0 49.4#



#54

cis-1,3-Dichloropropene

Concen: 5.069 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034334.D

Acq: 06 Sep 2019 16:34

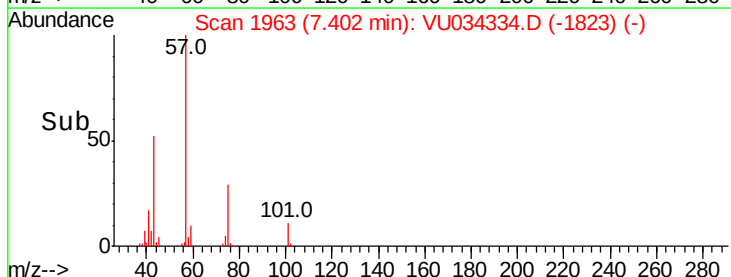
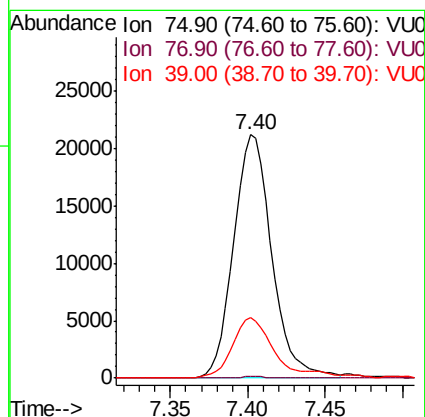
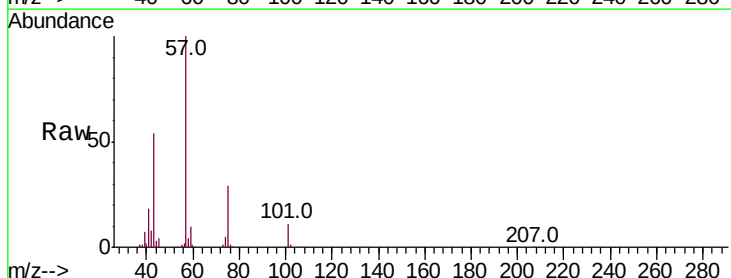
Tgt Ion: 75 Resp: 36369

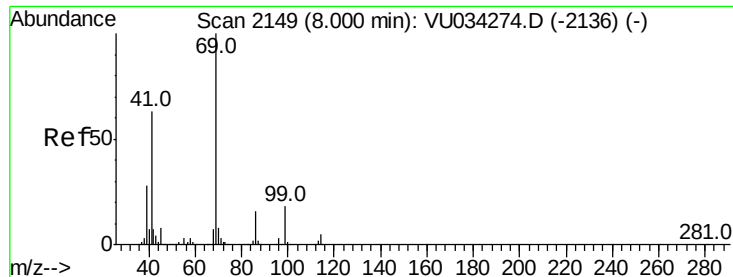
Ion Ratio Lower Upper

75 100

77 0.7 25.1 37.7#

39 24.8 31.2 46.8#





#56

Ethyl methacrylate

Concen: 3.092 ug/l

RT: 7.98 min Scan# 2142

Delta R.T. -0.02 min

Lab File: VU034334.D

Acq: 06 Sep 2019 16:34

Instrument :

MSVOA_U

ClientSampled :

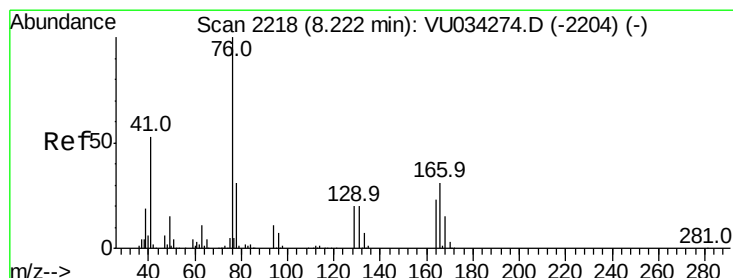
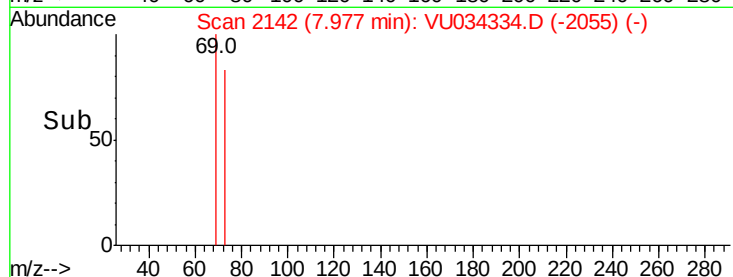
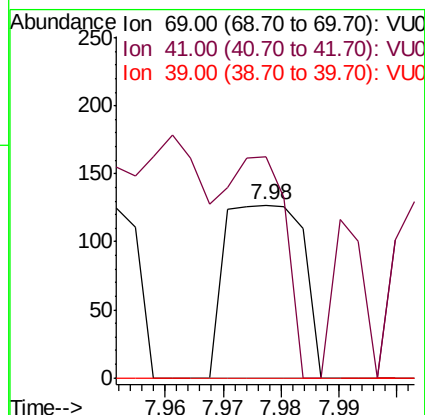
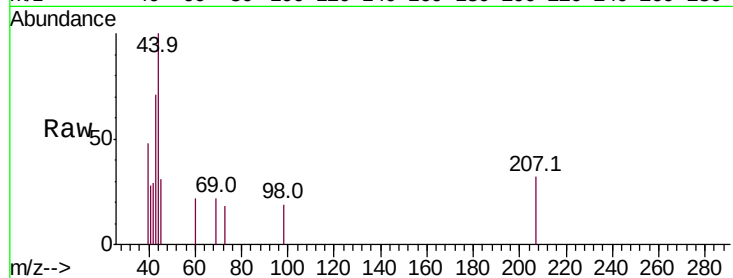
Tot Ion: 69 Resp: 118

Ion Ratio Lower Upper

69 100

41 0.0 49.5 74.3#

39 0.0 22.5 33.7#



#57

1,3-Dichloropropane

Concen: 0.866 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034334.D

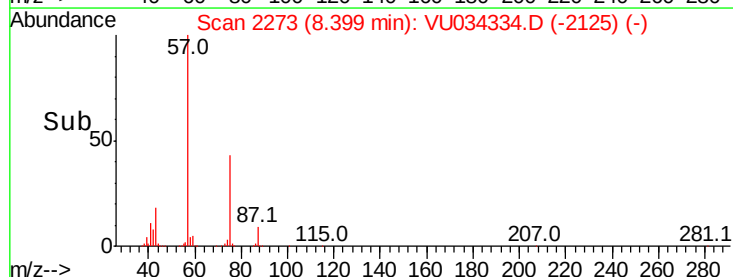
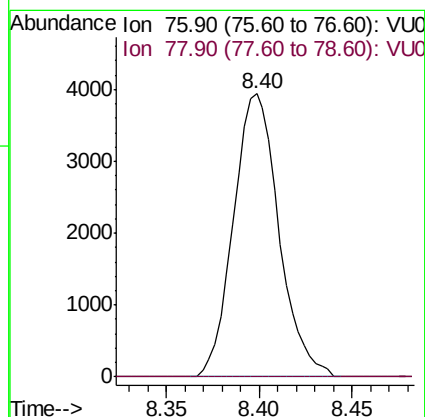
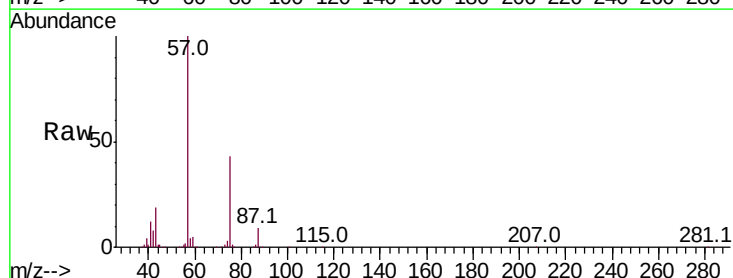
Acq: 06 Sep 2019 16:34

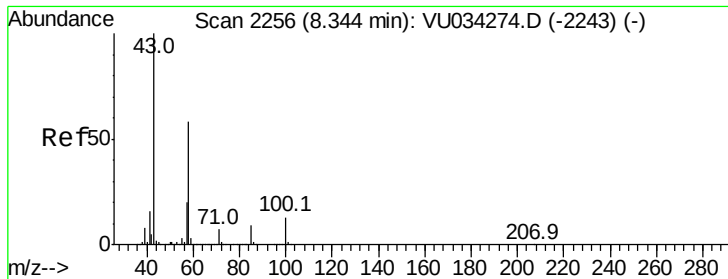
Tgt Ion: 76 Resp: 6710

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#





#59

2-Hexanone

Concen: 16.498 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034334.D

Acq: 06 Sep 2019 16:34

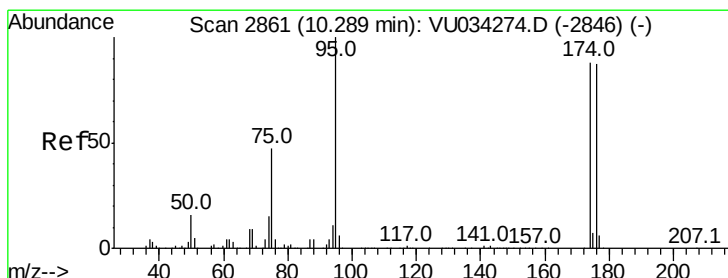
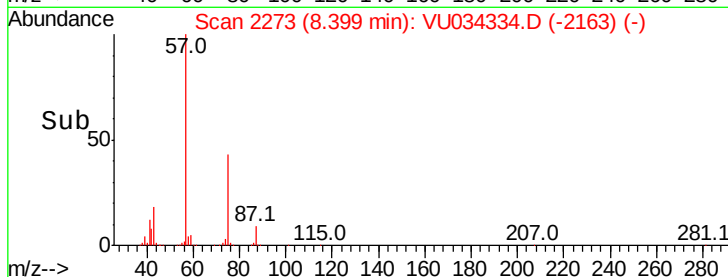
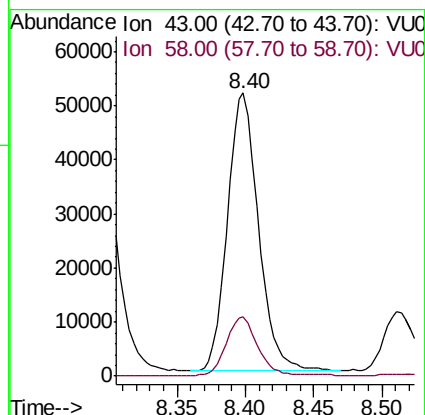
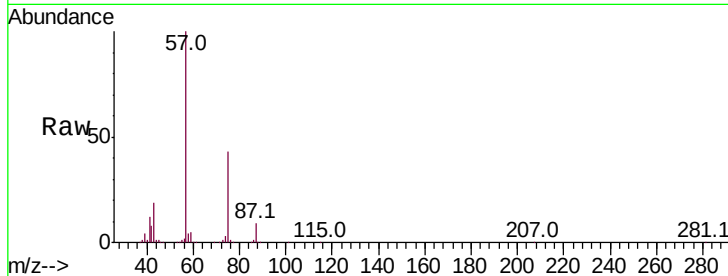
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 81419

Ion Ratio Lower Upper

43 100

58 22.4 28.8 86.5#



#62

4-Bromofluorobenzene

Concen: 46.774 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034334.D

Acq: 06 Sep 2019 16:34

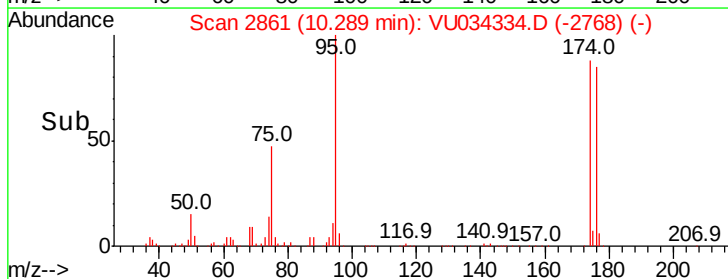
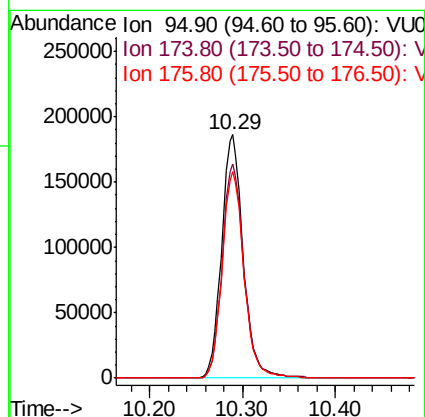
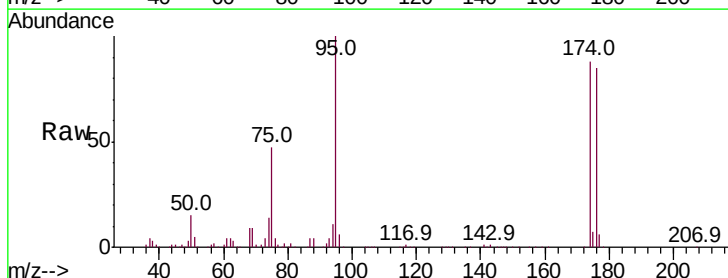
Tgt Ion: 95 Resp: 301216

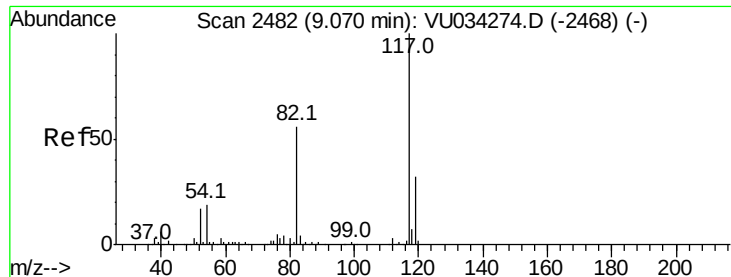
Ion Ratio Lower Upper

95 100

174 88.8 0.0 175.2

176 85.8 0.0 168.0

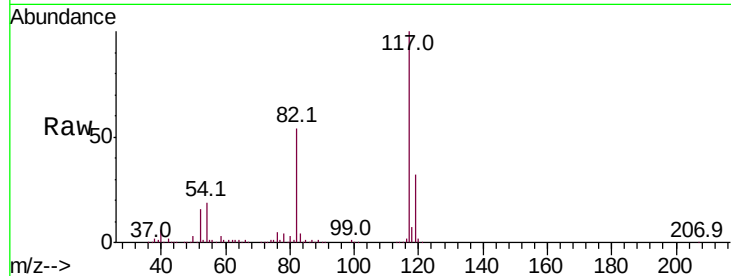




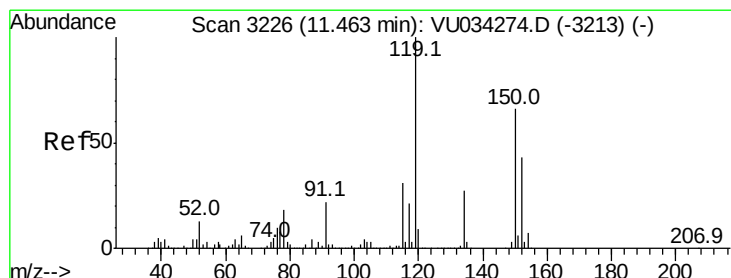
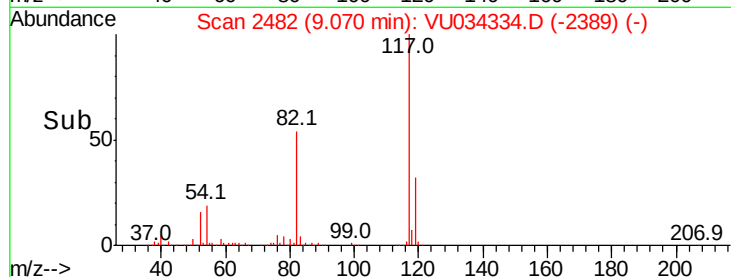
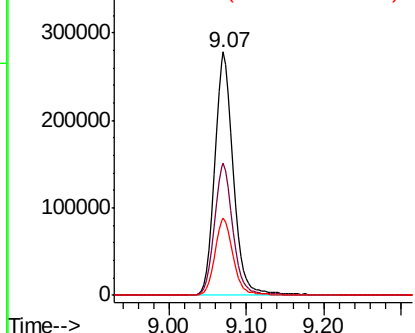
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034334.D
Acq: 06 Sep 2019 16:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 477715
Ion Ratio Lower Upper
117 100
82 54.3 44.6 67.0
119 31.8 25.9 38.9

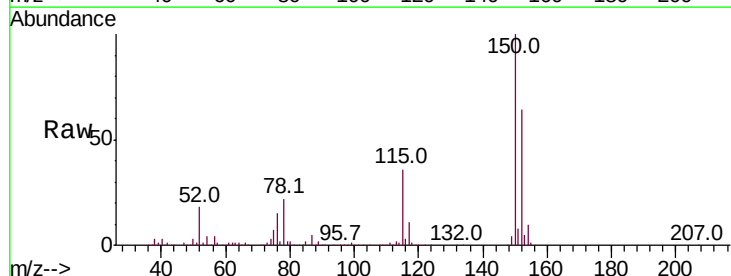


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

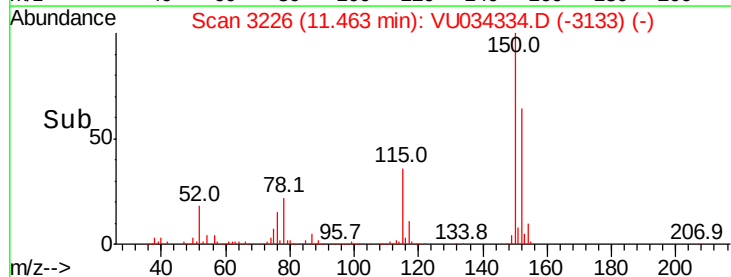
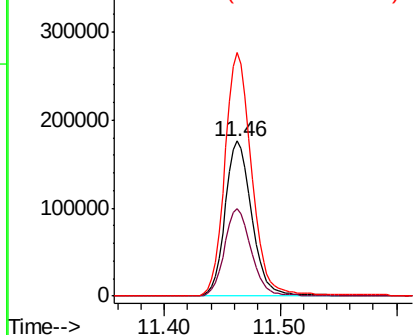


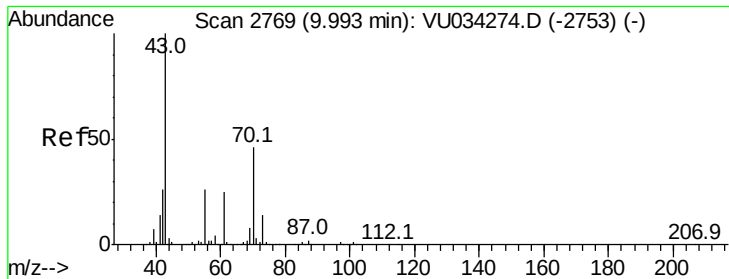
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VU034334.D
Acq: 06 Sep 2019 16:34

Tgt Ion:152 Resp: 282711
Ion Ratio Lower Upper
152 100
115 56.4 39.1 117.3
150 157.7 0.0 345.4



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-amvl acetate

Concen: 0.309 ug/l

RT: 9.92 min Scan# 2747

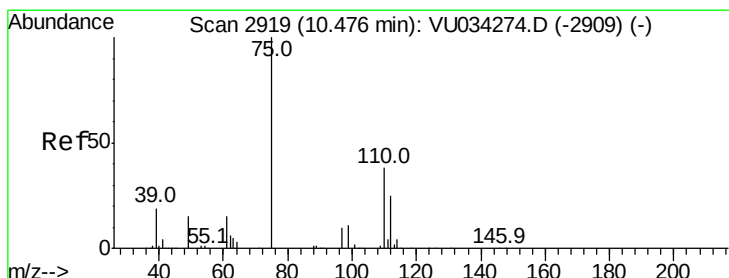
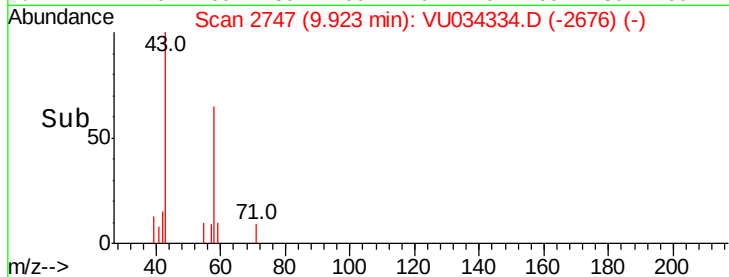
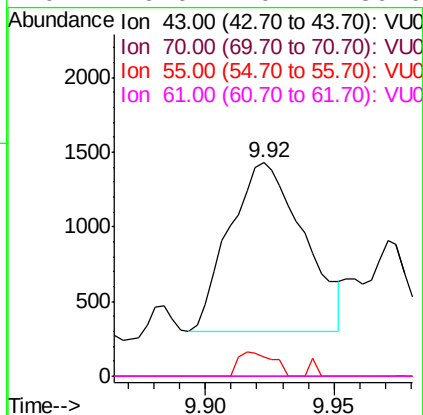
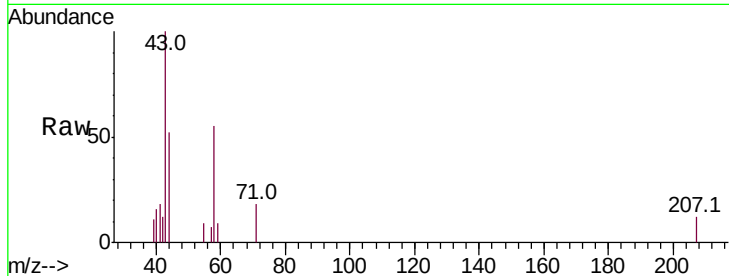
Delta R.T. -0.07 min

Lab File: VU034334.D

Acq: 06 Sep 2019 16:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	43	Resp:	2286
Ion	Ratio	Lower	Upper
43	100		
70	0.0	36.4	54.6#
55	6.7	21.2	31.8#
61	0.0	20.4	30.6#



#76

1,2,3-Trichloropropane

Concen: 23.130 ug/l

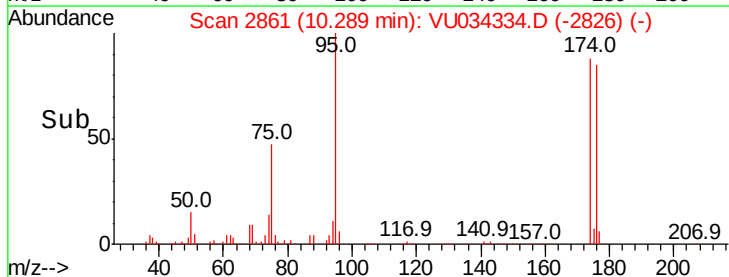
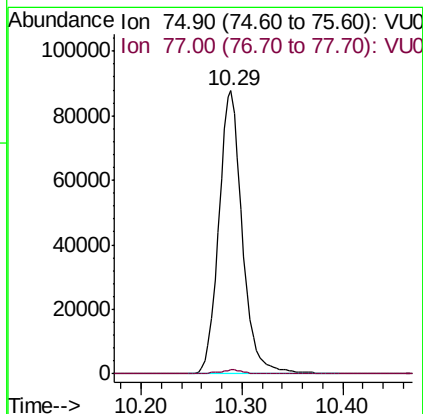
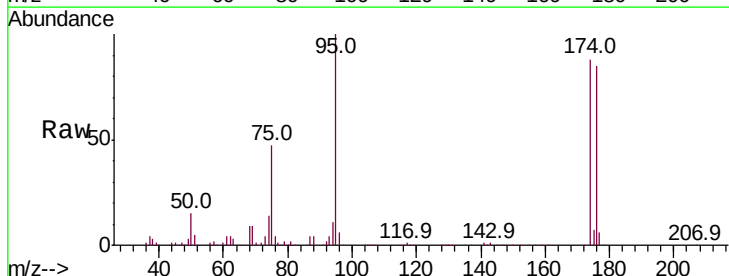
RT: 10.29 min Scan# 2861

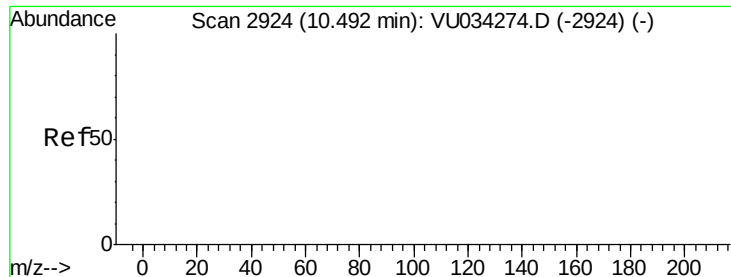
Delta R.T. -0.19 min

Lab File: VU034334.D

Acq: 06 Sep 2019 16:34

Tgt Ion:	75	Resp:	142737
Ion	Ratio	Lower	Upper
75	100		
77	1.4	20.8	62.2#





#81

trans-1,4-Dichloro-2-butene

Concen: 77.785 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034334.D

Acq: 06 Sep 2019 16:34

Instrument :

MSVOA_U

ClientSampled :

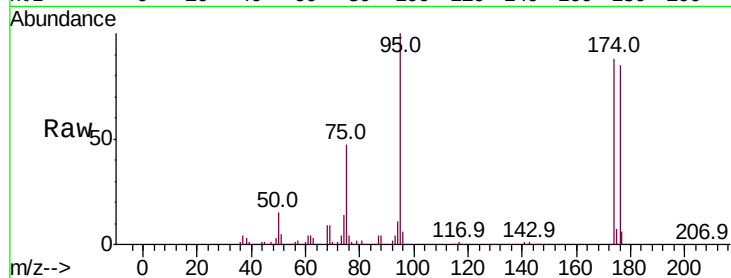
Tot Ion: 75 Resp: 142737

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

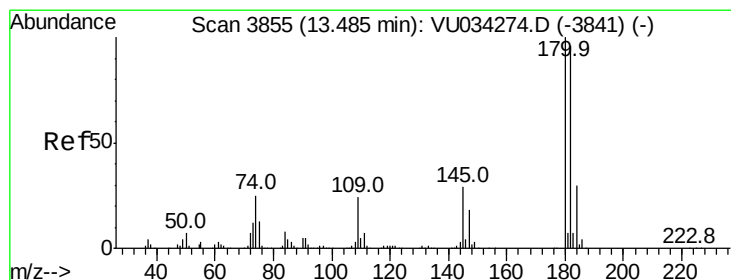
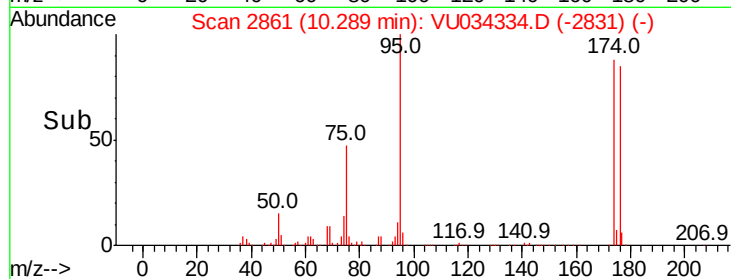
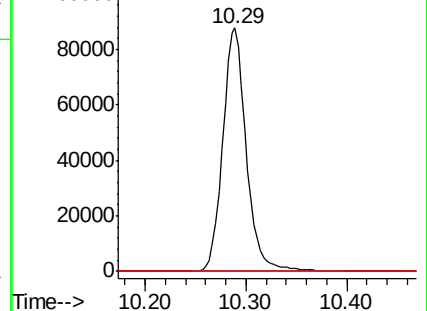
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU034274.D (-2924) (-)

Ion 53.00 (52.70 to 53.70): VU034274.D (-2924) (-)

Ion 88.90 (88.60 to 89.60): VU034274.D (-2924) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.457 ug/l

RT: 13.50 min Scan# 3860

Delta R.T. 0.02 min

Lab File: VU034334.D

Acq: 06 Sep 2019 16:34

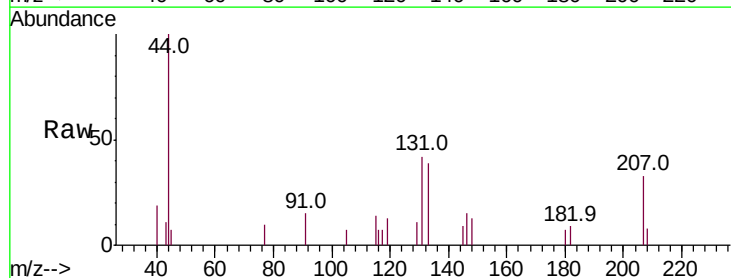
Tgt Ion: 180 Resp: 42

Ion Ratio Lower Upper

180 100

182 347.6 47.9 143.8#

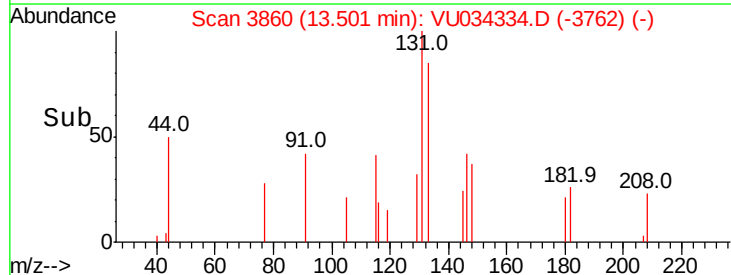
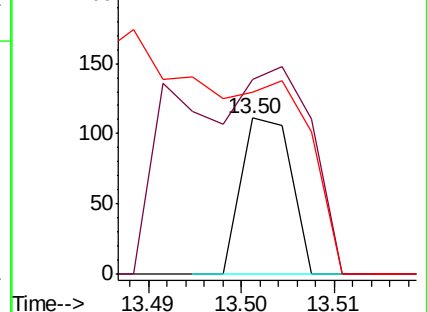
145 561.9 14.4 43.0#

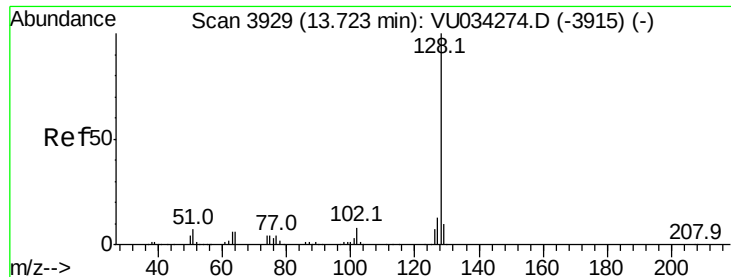


Abundance Ion 179.80 (179.50 to 180.50): VU034274.D (-3841) (-)

Ion 181.80 (181.50 to 182.50): VU034274.D (-3841) (-)

Ion 144.80 (144.50 to 145.50): VU034274.D (-3841) (-)





#95

Naphthalene

Concen: 6.615 ug/l

RT: 13.73 min Scan# 3932

Delta R.T. 0.01 min

Lab File: VU034334.D

Acq: 06 Sep 2019 16:34

Instrument :

MSVOA_U

ClientSampled :

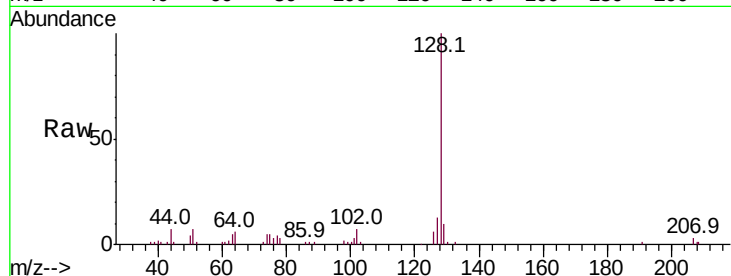
Tot Ion:128 Resp: 54219

Ion Ratio Lower Upper

128 100

127 12.6 10.6 15.8

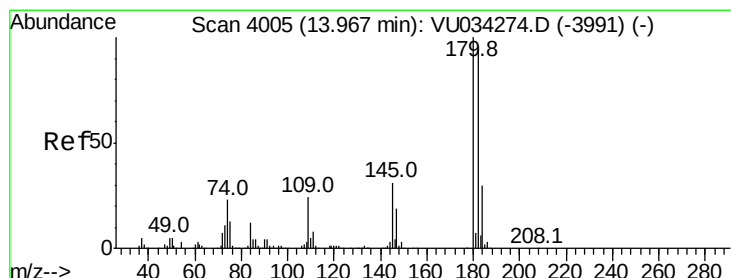
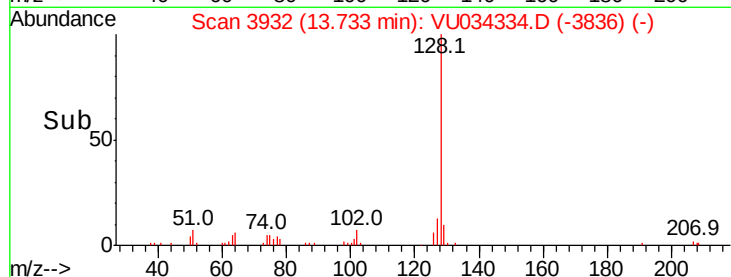
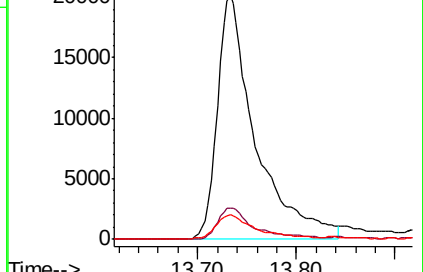
129 10.9 8.4 12.6



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: 2.645 ug/l

RT: 13.97 min Scan# 4006

Delta R.T. 0.00 min

Lab File: VU034334.D

Acq: 06 Sep 2019 16:34

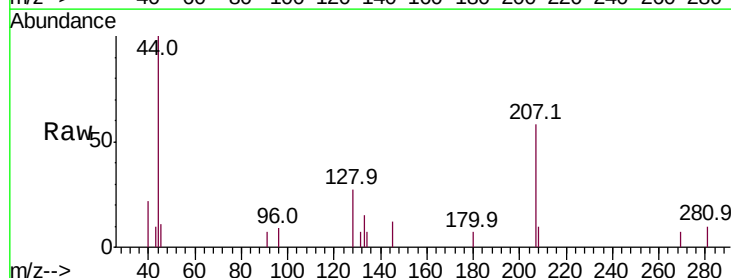
Tgt Ion:180 Resp: 43

Ion Ratio Lower Upper

180 100

182 0.0 48.4 145.0#

145 437.2 15.4 46.4#



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

