

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090219\
 Data File : VU034170.D
 Acq On : 01 Sep 2019 15:42
 Operator : JC/SP
 Sample : K4648-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 02 08:33:19 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	439716	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	692389	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	678463	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	342711	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	276099	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	
35) Dibromofluoromethane	4.86	113	232885	48.49	ug/l	0.00
Spiked Amount			Recovery	=	96.98%	
50) Toluene-d8	7.55	98	902171	50.17	ug/l	0.00
Spiked Amount			Recovery	=	100.34%	
62) 4-Bromofluorobenzene	10.29	95	318538	45.54	ug/l	0.00
Spiked Amount			Recovery	=	91.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1560	Below Cal		90
5) Bromomethane	1.63	94	957	Below Cal	#	80
11) Tert butyl alcohol	2.81	59	35370	27.223	ug/l	99
13) Acrolein	2.19	56	119	0.218	ug/l #	1
16) Acetone	2.31	43	13255	4.611	ug/l	98
18) Methyl Acetate	2.70	43	2404	0.324	ug/l #	51
19) Methyl tert-butyl Ether	2.99	73	22271	1.544	ug/l	98
20) Methylene Chloride	2.69	84	1410	0.259	ug/l	87
31) Cyclohexane	4.97	56	7590	0.902	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31426	4.799	ug/l #	48
38) Carbon Tetrachloride	4.96	117	39731	6.285	ug/l #	16
56) Ethyl methacrylate	8.21	69	19	0.974	ug/l #	1
76) 1,2,3-Trichloropropane	10.29	75	153171	19.830	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	153171	66.773	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.53	180	414	1.168	ug/l #	48
95) Naphthalene	13.76	128	1233	1.845	ug/l #	74

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034170.D

Acq: 01 Sep 2019 15:42

Instrument :

MSVOA_U

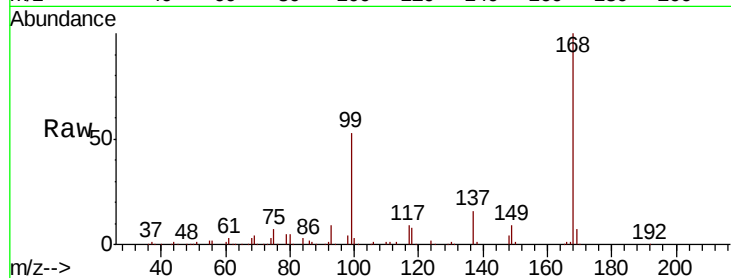
ClientSampleId :

Tot Ion:168 Resp: 439716

Ion Ratio Lower Upper

168 100

99 53.5 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034170.D

Ion 98.90 (98.60 to 99.60): VU034170.D

4.96

200000

150000

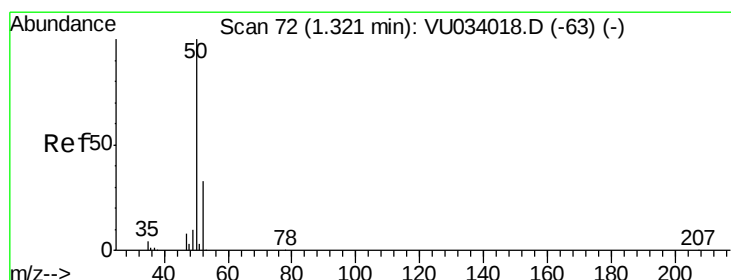
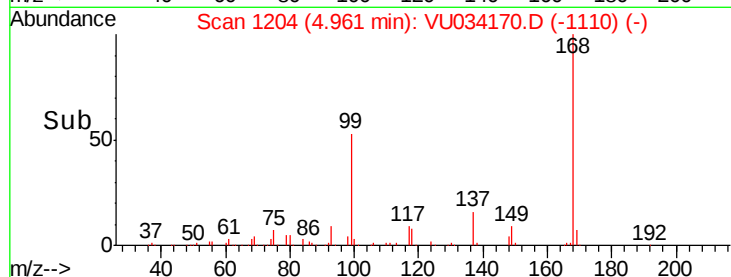
100000

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: VU034170.D

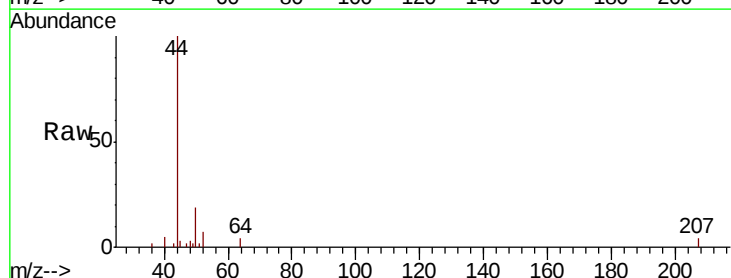
Acq: 01 Sep 2019 15:42

Tgt Ion: 50 Resp: 1560

Ion Ratio Lower Upper

50 100

52 38.2 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034170.D

Ion 51.90 (51.60 to 52.60): VU034170.D

1.32

1500

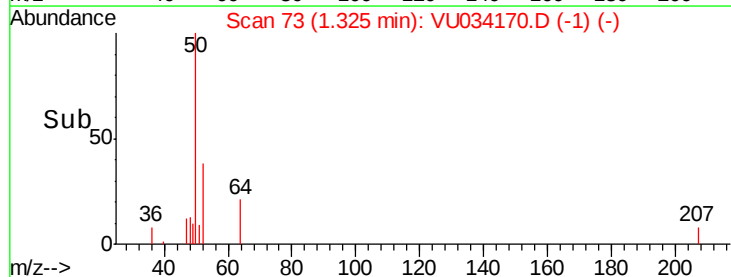
1000

500

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.03 min

Lab File: VU034170.D

Acq: 01 Sep 2019 15:42

Instrument :

MSVOA_U

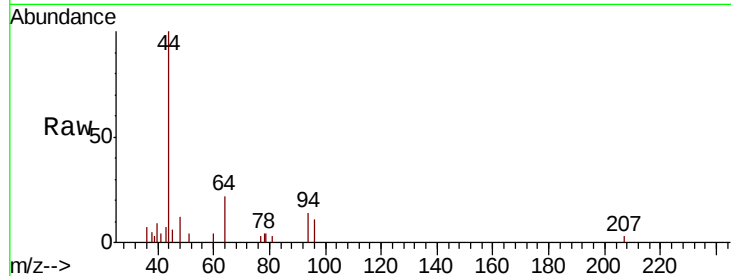
ClientSampleId :

Tot Ion: 94 Resp: 957

Ion Ratio Lower Upper

94 100

96 76.3 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.63

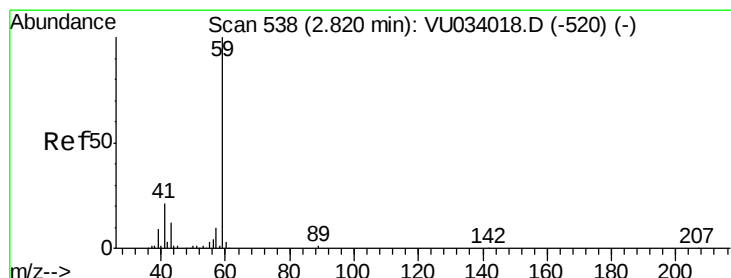
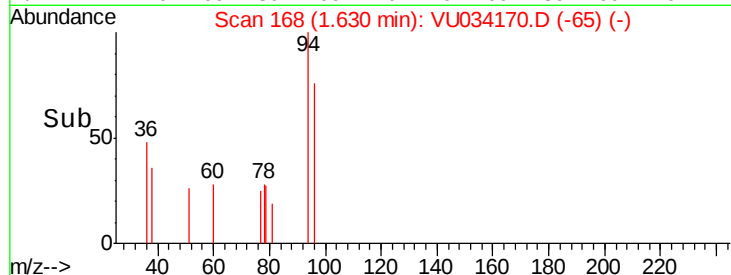
400

200

0

1.60 1.65

Time-->



#11

Tert butyl alcohol

Concen: 27.223 ug/l

RT: 2.81 min Scan# 536

Delta R.T. -0.01 min

Lab File: VU034170.D

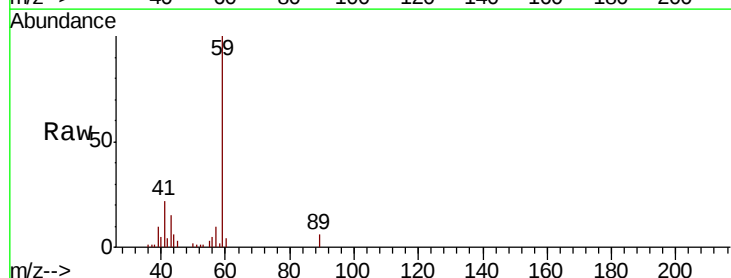
Acq: 01 Sep 2019 15:42

Tgt Ion: 59 Resp: 35370

Ion Ratio Lower Upper

59 100

57 9.5 8.0 12.0



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.81

15000

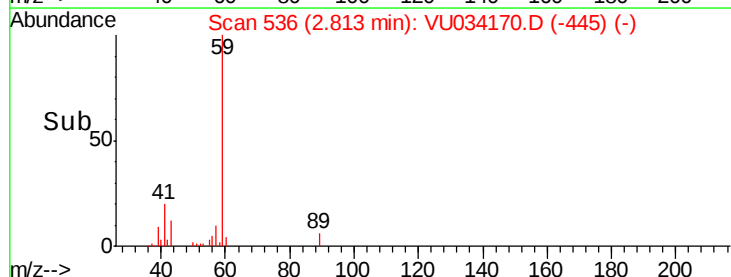
10000

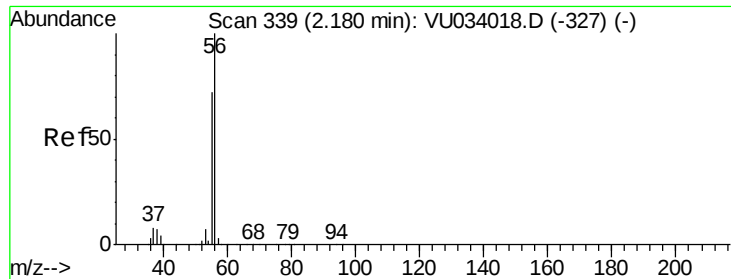
5000

0

2.75 2.80 2.85 2.90

Time-->





#13

Acrolein

Concen: 0.218 ug/l

RT: 2.19 min Scan# 341

Delta R.T. 0.01 min

Lab File: VU034170.D

Acq: 01 Sep 2019 15:42

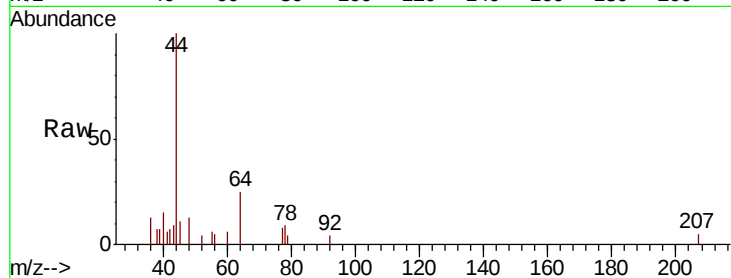
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 119

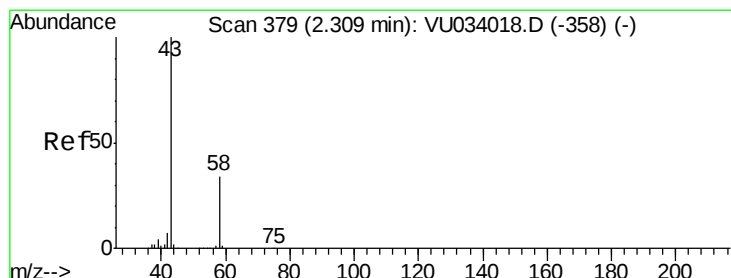
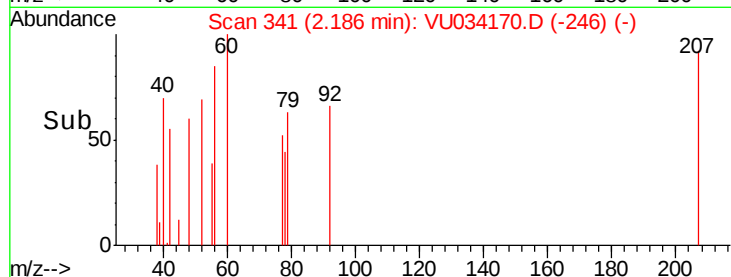
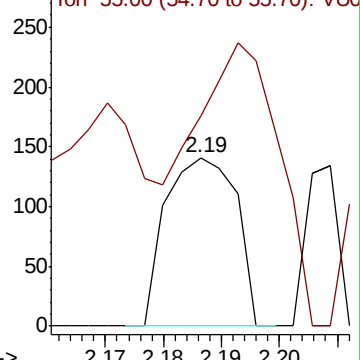
Ion Ratio Lower Upper

56 100

55 204.2 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU034170.D (-246) (-)



#16

Acetone

Concen: 4.611 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034170.D

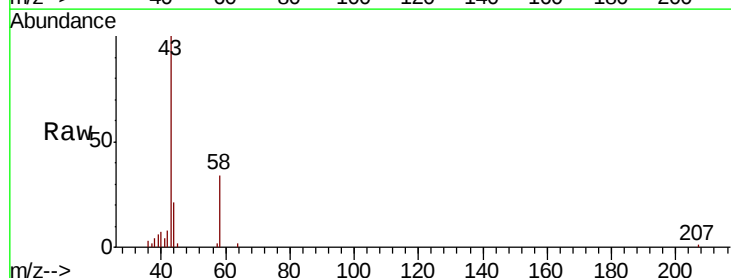
Acq: 01 Sep 2019 15:42

Tgt Ion: 43 Resp: 13255

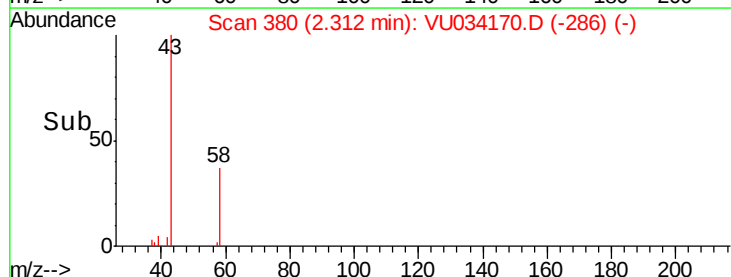
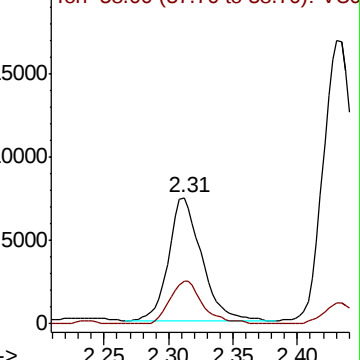
Ion Ratio Lower Upper

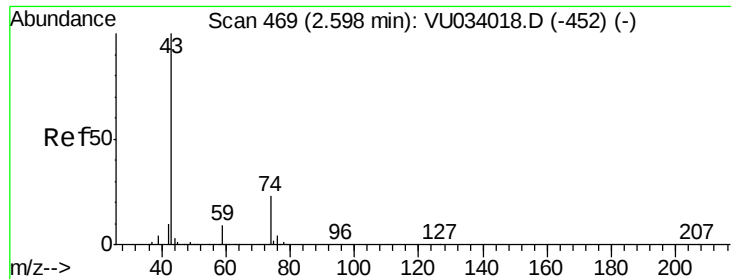
43 100

58 34.5 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034170.D (-286) (-)

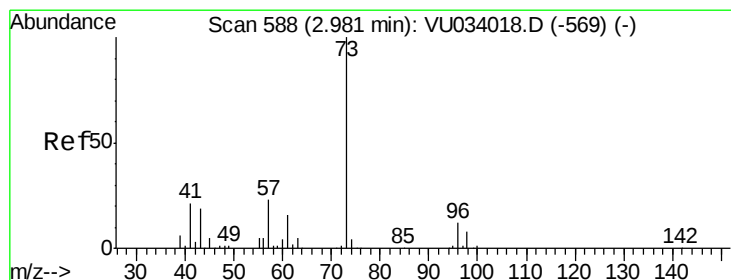
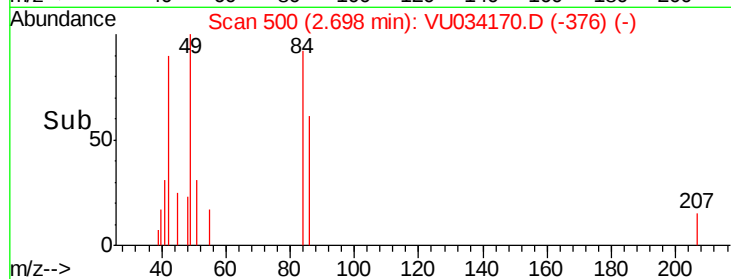
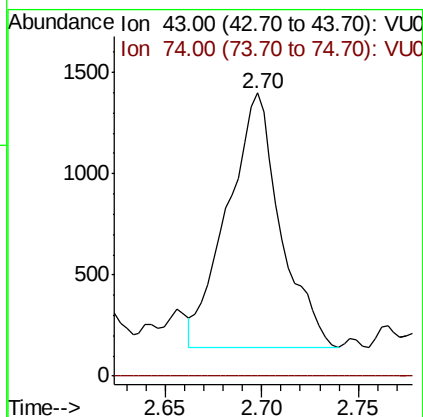
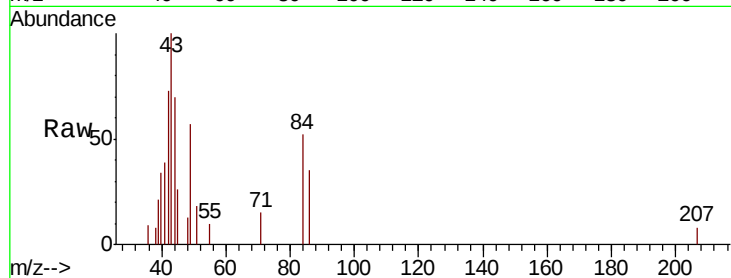




#18
Methyl Acetate
Concen: 0.324 ug/l
RT: 2.70 min Scan# 500
Delta R.T. 0.10 min
Lab File: VU034170.D
Acq: 01 Sep 2019 15:42

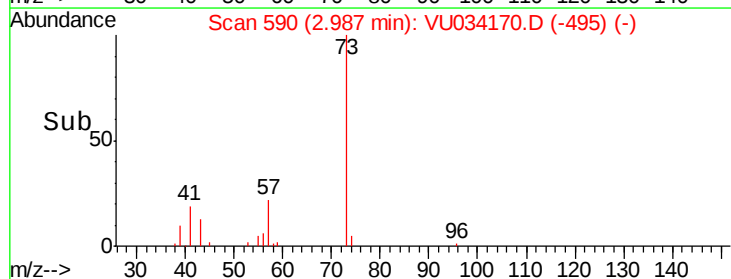
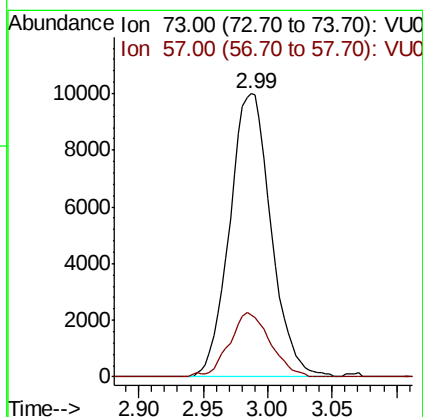
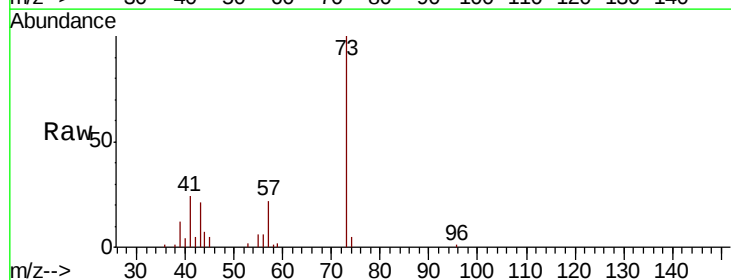
Instrument :
MSVOA_U
ClientSampled :

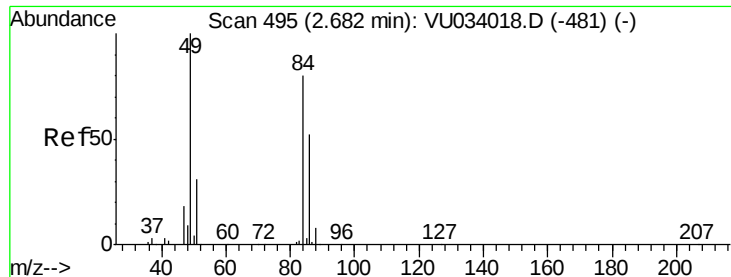
Tot Ion: 43 Resp: 2404
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#19
Methyl tert-butyl Ether
Concen: 1.544 ug/l
RT: 2.99 min Scan# 590
Delta R.T. 0.01 min
Lab File: VU034170.D
Acq: 01 Sep 2019 15:42

Tgt Ion: 73 Resp: 22271
Ion Ratio Lower Upper
73 100
57 22.0 18.3 27.5





#20

Methylene Chloride

Concen: 0.259 ug/l

RT: 2.69 min Scan# 498

Delta R.T. 0.01 min

Lab File: VU034170.D

Acq: 01 Sep 2019 15:42

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 84 Resp: 1410

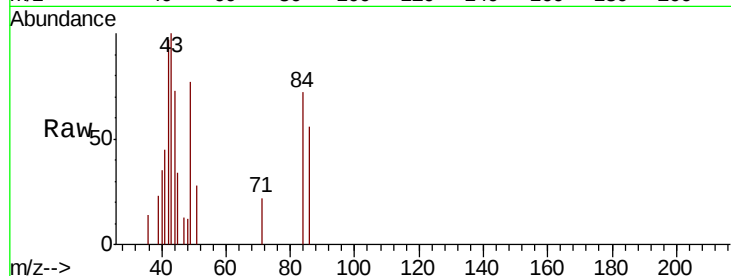
Ion Ratio Lower Upper

84 100

49 106.5 100.2 150.4

51 38.3 30.8 46.2

86 77.0 52.5 78.7

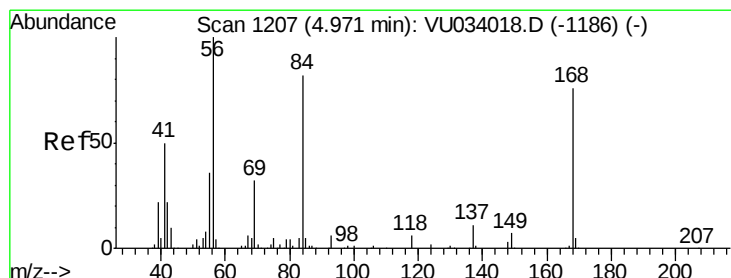
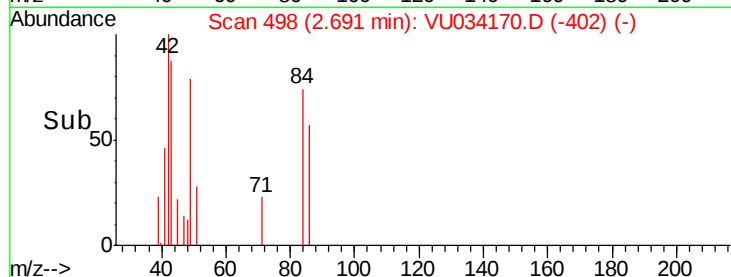
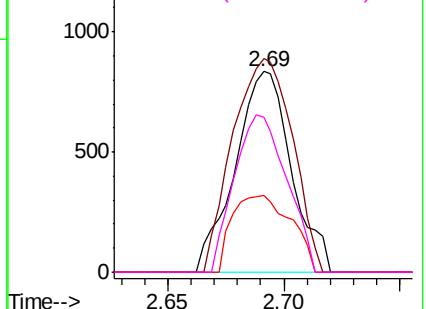


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#31

Cyclohexane

Concen: 0.902 ug/l

RT: 4.97 min Scan# 1206

Delta R.T. -0.00 min

Lab File: VU034170.D

Acq: 01 Sep 2019 15:42

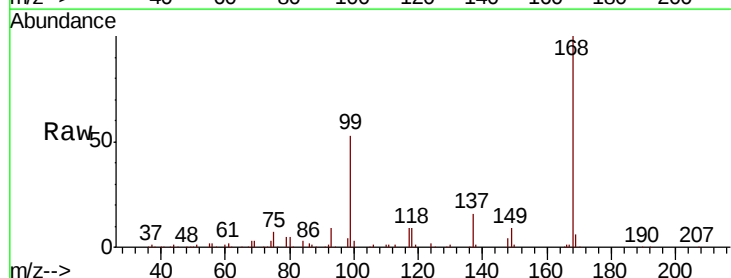
Tgt Ion: 56 Resp: 7590

Ion Ratio Lower Upper

56 100

69 194.6 25.4 38.0#

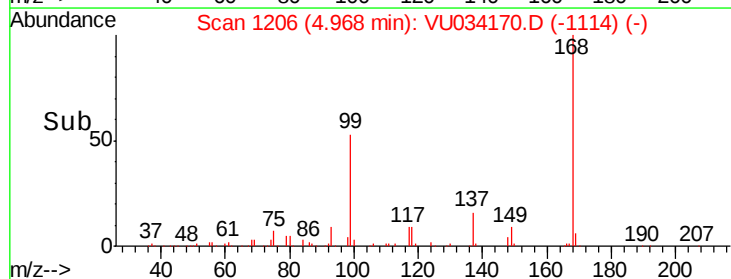
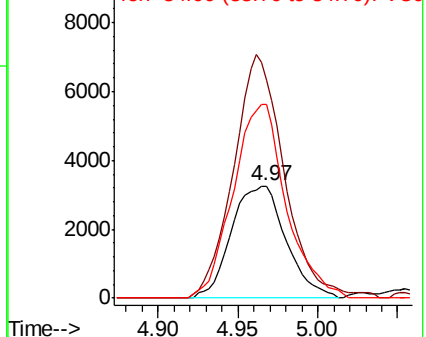
84 173.0 65.8 98.8#

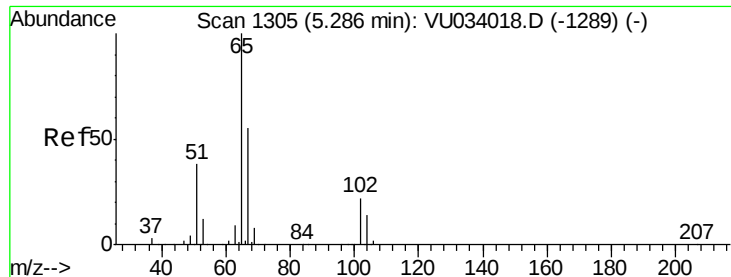


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

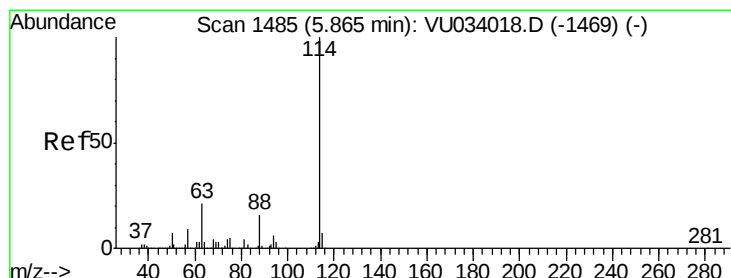
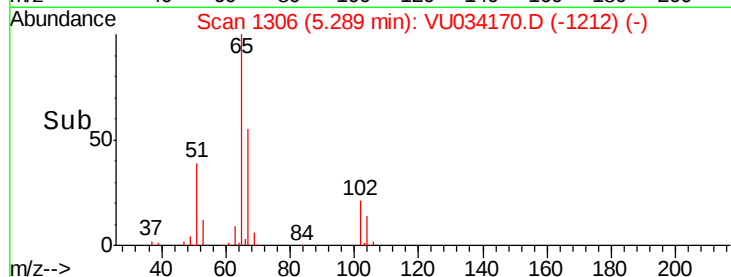
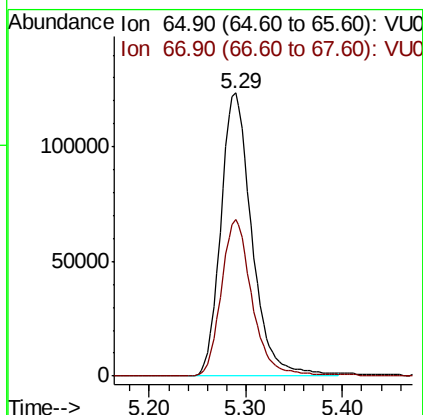
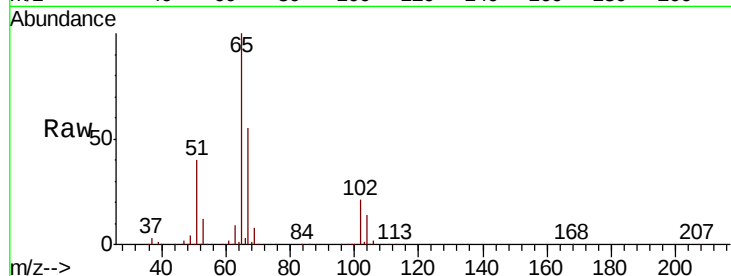




#33
 1,2-Dichloroethane-d4
 Concen: 49.004 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034170.D
 Acq: 01 Sep 2019 15:42

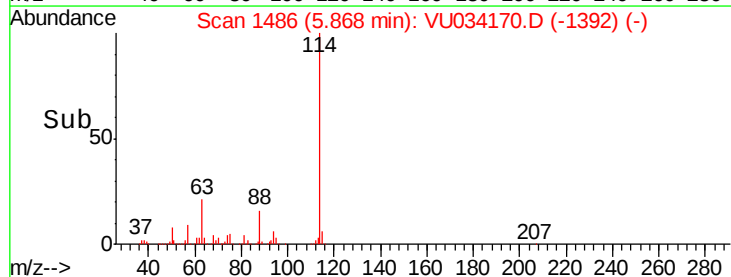
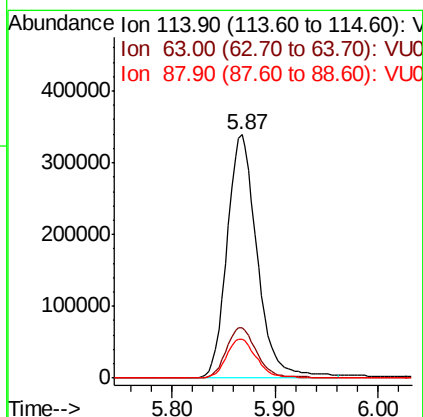
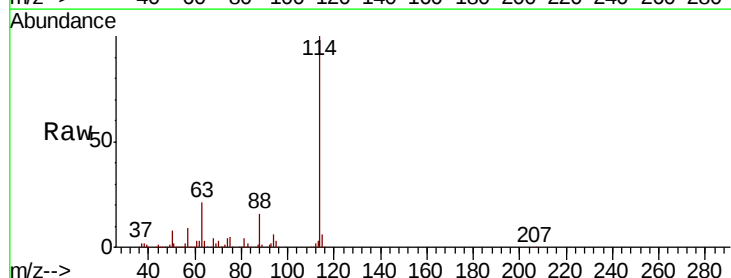
Instrument :
 MSVOA_U
 ClientSampleId :

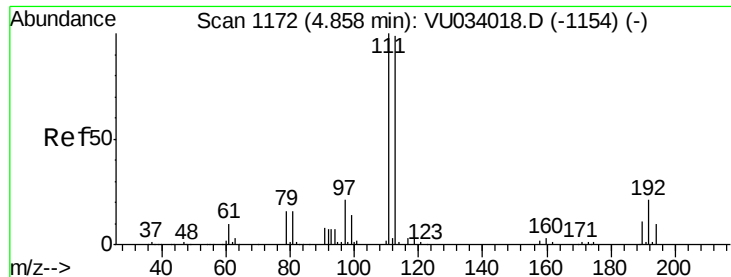
Tot Ion: 65 Resp: 276099
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034170.D
 Acq: 01 Sep 2019 15:42

Tgt Ion: 114 Resp: 692389
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 42.0
 88 16.2 0.0 32.0

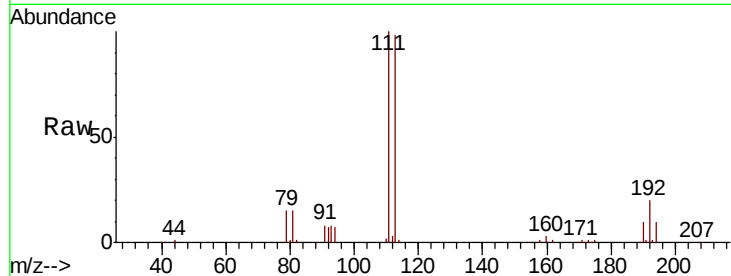




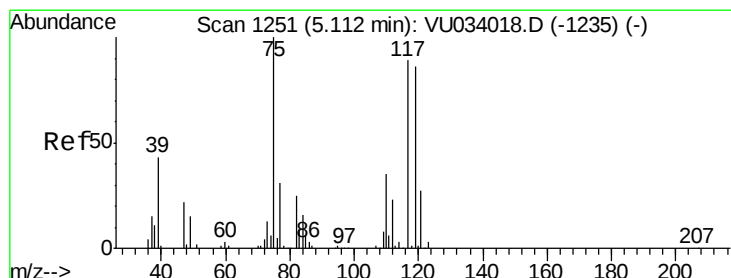
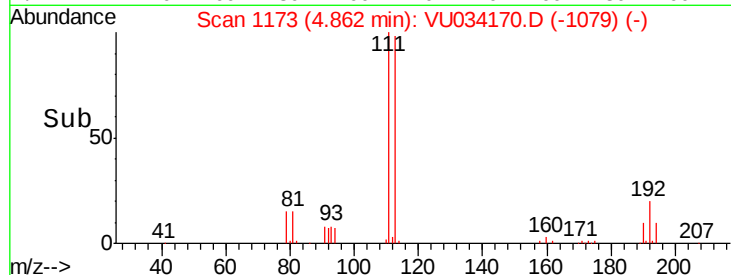
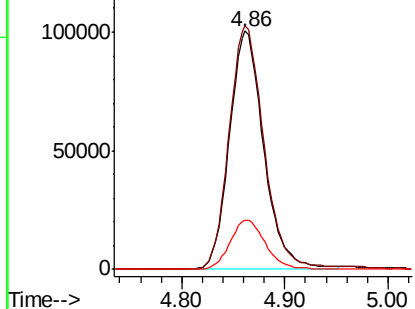
#35
 Dibromofluoromethane
 Concen: 48.494 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034170.D
 Acq: 01 Sep 2019 15:42

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.7	122.5
192	21.4	17.1	25.7

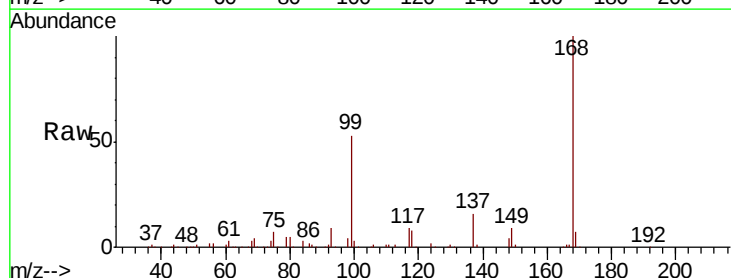


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

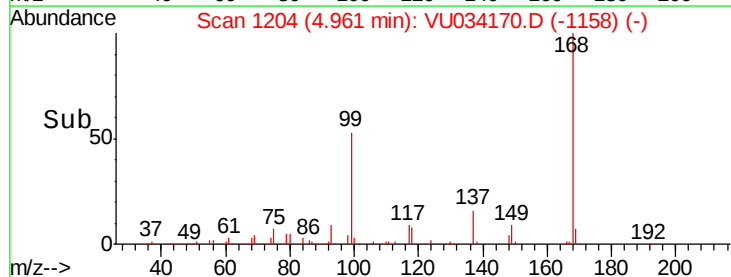
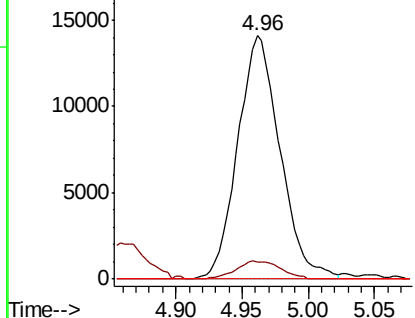


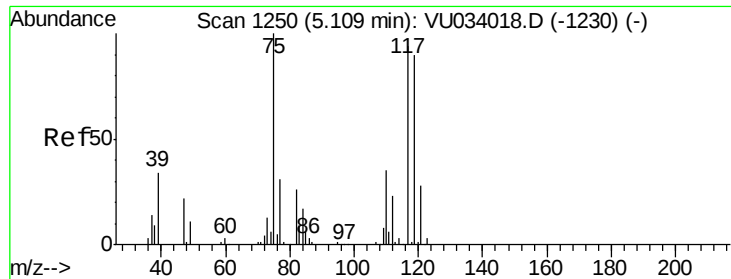
#36
 1,1-Dichloropropene
 Concen: 4.799 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034170.D
 Acq: 01 Sep 2019 15:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	17.8	53.5#
77	0.0	25.0	37.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

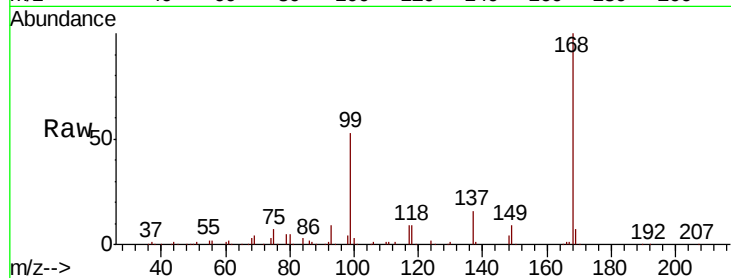




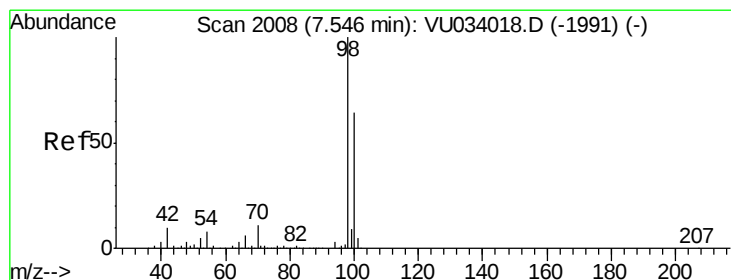
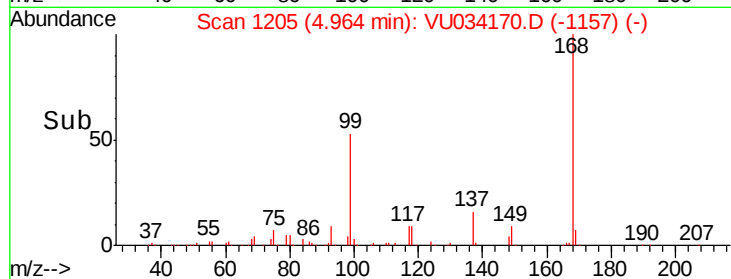
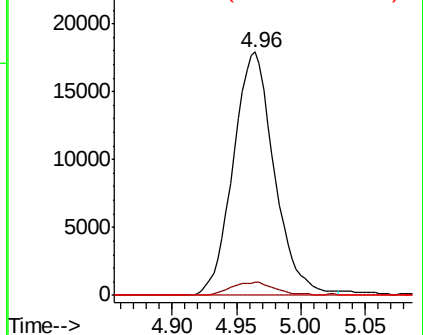
#38
Carbon Tetrachloride
Concen: 6.285 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.14 min
Lab File: VU034170.D
Acq: 01 Sep 2019 15:42

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 39731
Ion Ratio Lower Upper
117 100
119 5.3 77.0 115.4#
121 0.0 23.9 35.9#

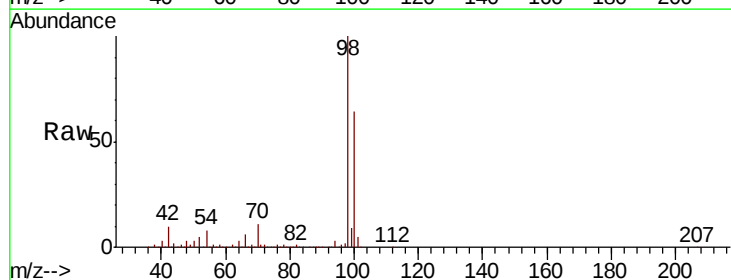


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

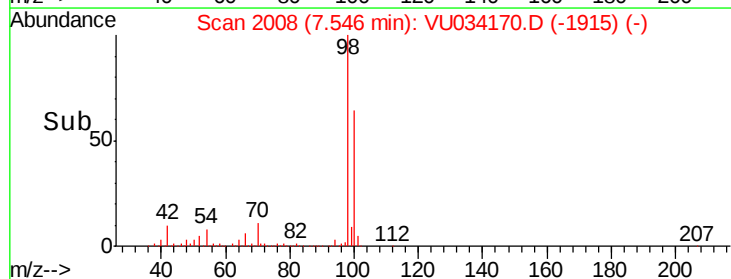
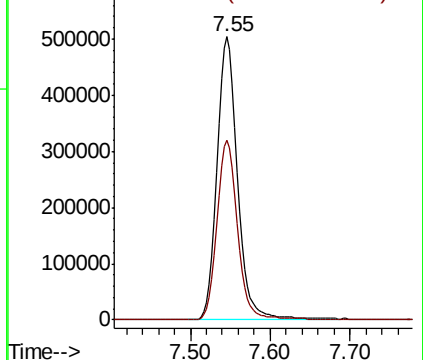


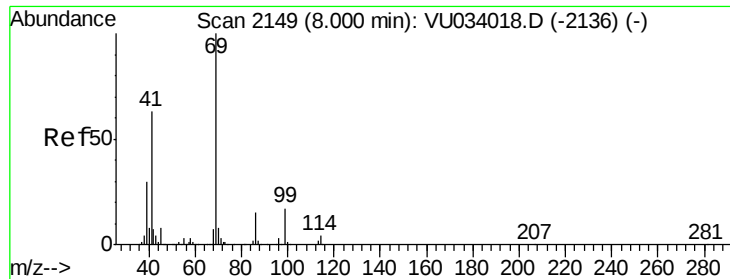
#50
Toluene-d8
Concen: 50.171 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034170.D
Acq: 01 Sep 2019 15:42

Tgt Ion: 98 Resp: 902171
Ion Ratio Lower Upper
98 100
100 63.7 50.3 75.5



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

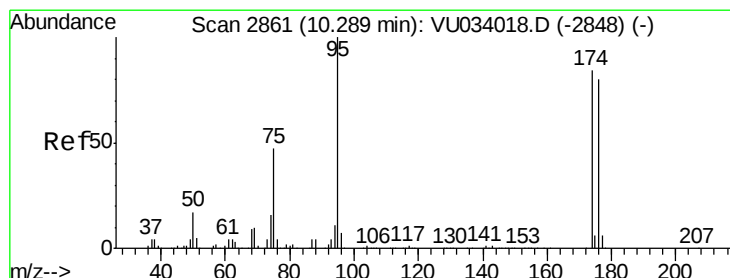
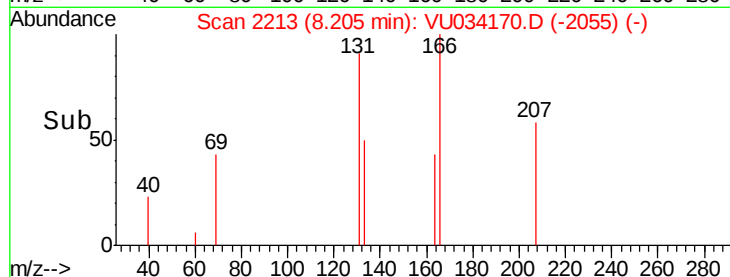
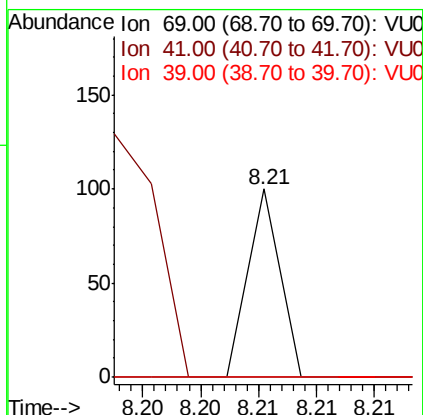
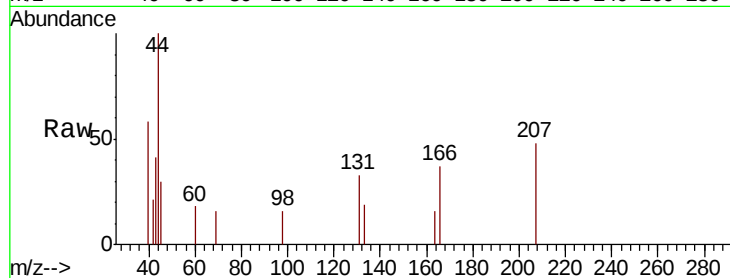




#56
Ethyl methacrylate
Concen: 0.974 ug/l
RT: 8.21 min Scan# 2213
Delta R.T. 0.21 min
Lab File: VU034170.D
Acq: 01 Sep 2019 15:42

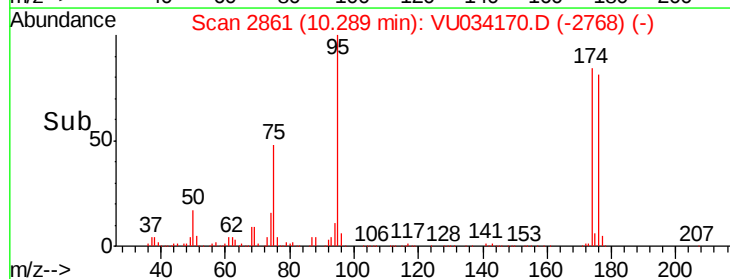
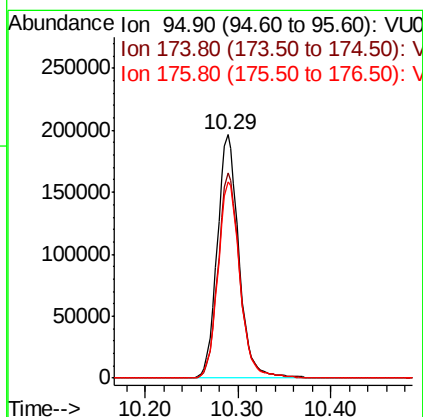
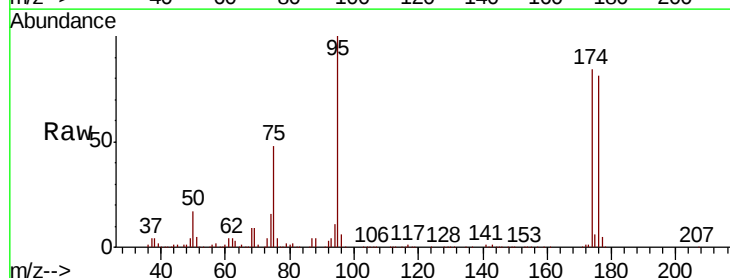
Instrument :
MSVOA_U
ClientSampled :

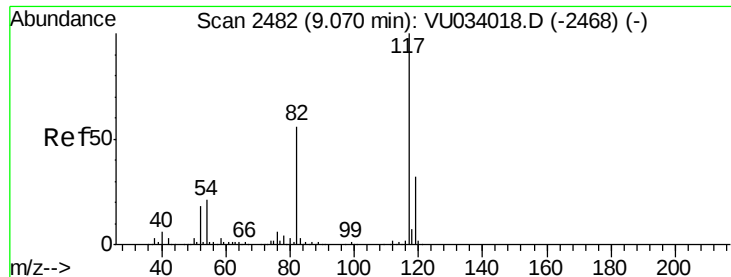
Tot Ion	Ratio	Lower	Upper
69	100		
41	357.9	50.7	76.1#
39	0.0	24.2	36.2#



#62
4-Bromofluorobenzene
Concen: 45.540 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.00 min
Lab File: VU034170.D
Acq: 01 Sep 2019 15:42

Tgt Ion	Ratio	Lower	Upper
95	100		
174	84.6	0.0	168.8
176	82.1	0.0	161.8

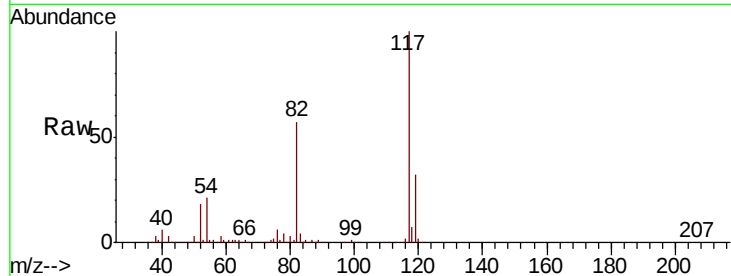




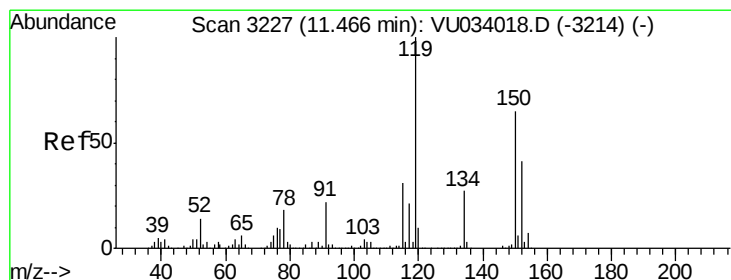
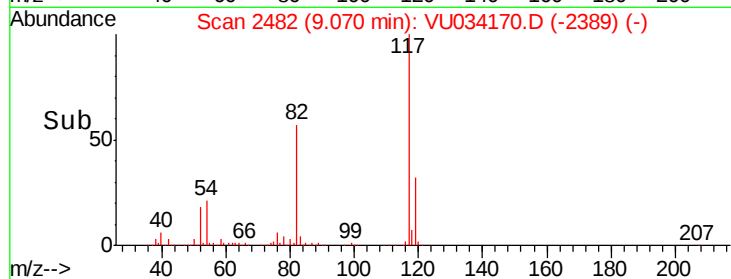
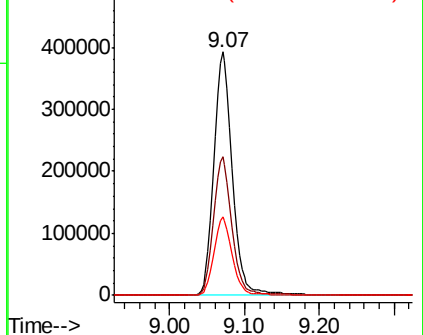
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034170.D
Acq: 01 Sep 2019 15:42

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 678463
Ion Ratio Lower Upper
117 100
82 57.2 45.1 67.7
119 32.1 25.4 38.0

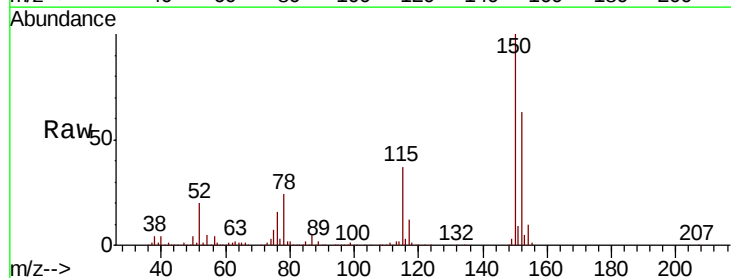


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

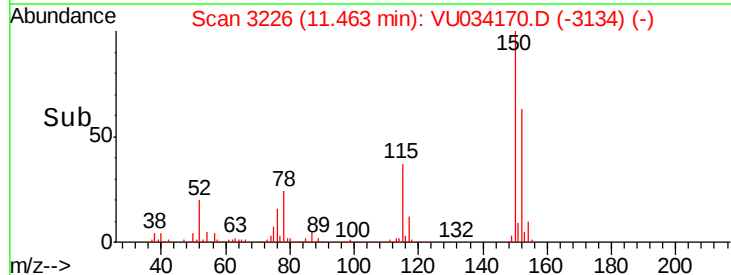
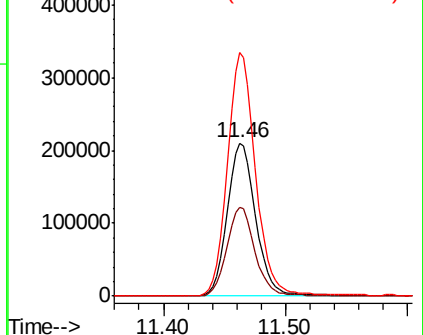


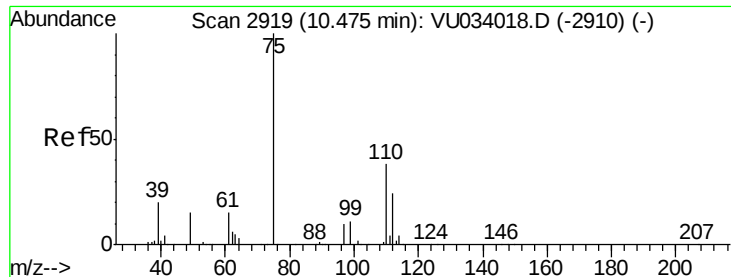
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034170.D
Acq: 01 Sep 2019 15:42

Tgt Ion:152 Resp: 342711
Ion Ratio Lower Upper
152 100
115 57.6 41.1 123.3
150 158.2 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

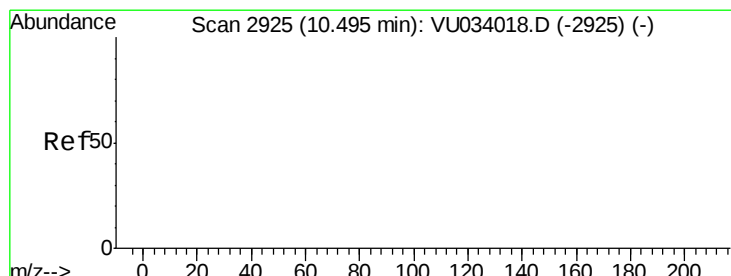
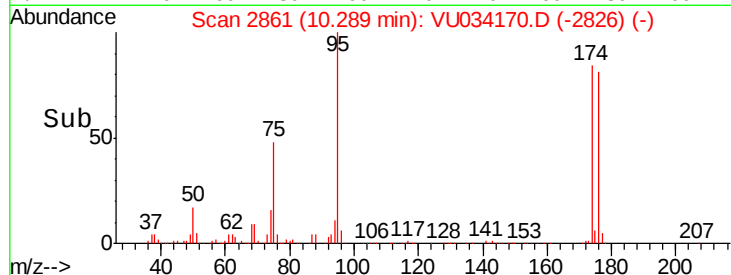
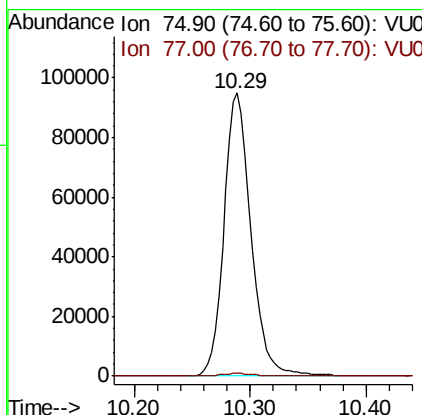
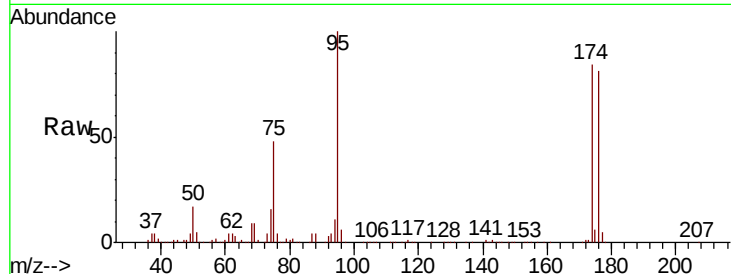




#76
 1,2,3-Trichloropropane
 Concen: 19.830 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034170.D
 Acq: 01 Sep 2019 15:42

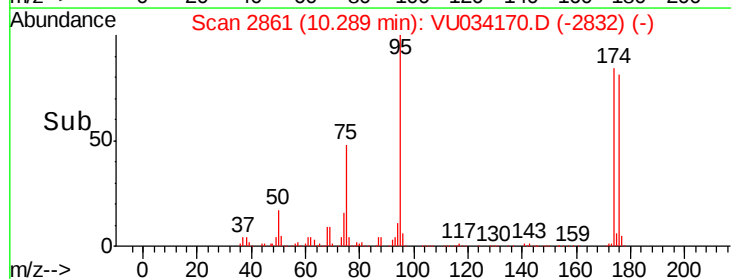
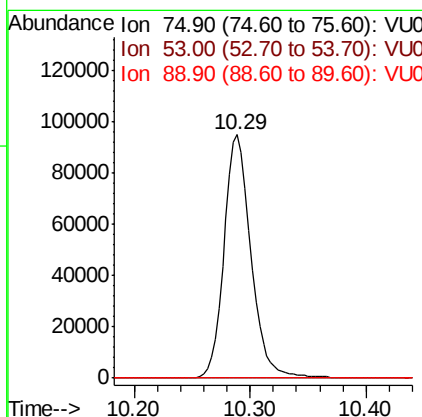
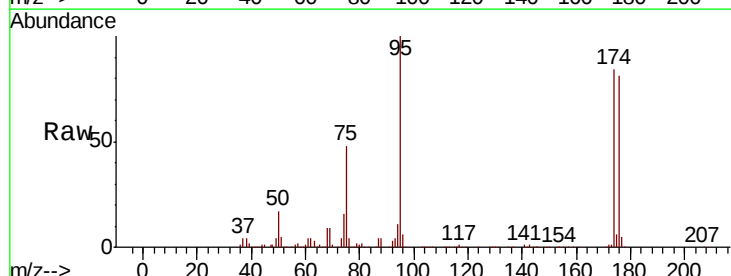
Instrument :
 MSVOA_U
 ClientSampled :

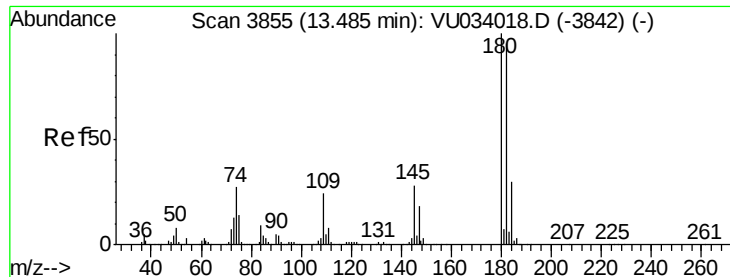
Tot Ion: 75 Resp: 153171
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.773 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034170.D
 Acq: 01 Sep 2019 15:42

Tgt Ion: 75 Resp: 153171
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0

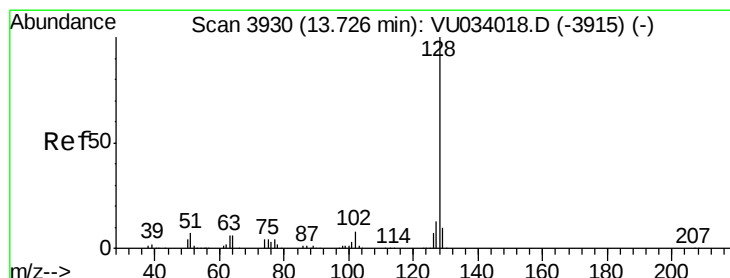
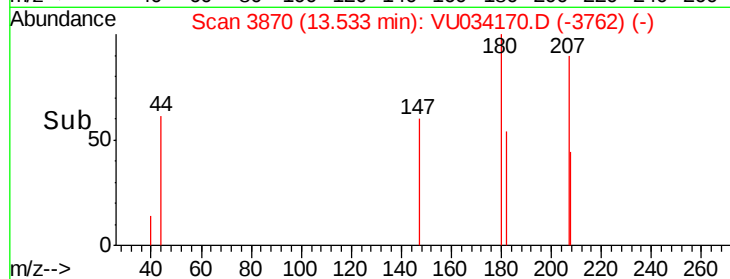
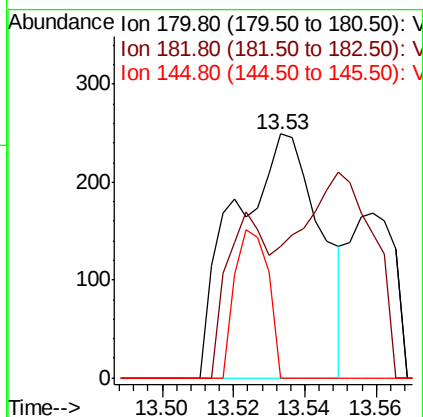
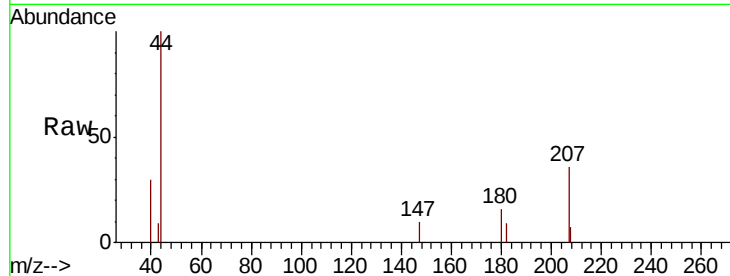




#93
 1,2,4-Trichlorobenzene
 Concen: 1.168 ug/l
 RT: 13.53 min Scan# 3870
 Delta R.T. 0.05 min
 Lab File: VU034170.D
 Acq: 01 Sep 2019 15:42

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion:180 Resp: 414
 Ion Ratio Lower Upper
 180 100
 182 32.4 47.4 142.2#
 145 23.7 14.1 42.3



#95
 Naphthalene
 Concen: 1.845 ug/l
 RT: 13.76 min Scan# 3942
 Delta R.T. 0.04 min
 Lab File: VU034170.D
 Acq: 01 Sep 2019 15:42

Tgt Ion:128 Resp: 1233
 Ion Ratio Lower Upper
 128 100
 127 3.5 10.2 15.4#
 129 0.0 8.4 12.6#

