

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090219\
 Data File : VU034167.D
 Acq On : 01 Sep 2019 14:33
 Operator : JC/SP
 Sample : K4648-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 02 08:32:39 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	439487	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	716484	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	696026	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	348000	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	282749	50.21	ug/l	0.00
Spiked Amount			Recovery	=	100.42%	
35) Dibromofluoromethane	4.86	113	235914	47.47	ug/l	0.00
Spiked Amount			Recovery	=	94.94%	
50) Toluene-d8	7.55	98	911277	48.97	ug/l	0.00
Spiked Amount			Recovery	=	97.94%	
62) 4-Bromofluorobenzene	10.29	95	320240	44.24	ug/l	0.00
Spiked Amount			Recovery	=	88.48%	

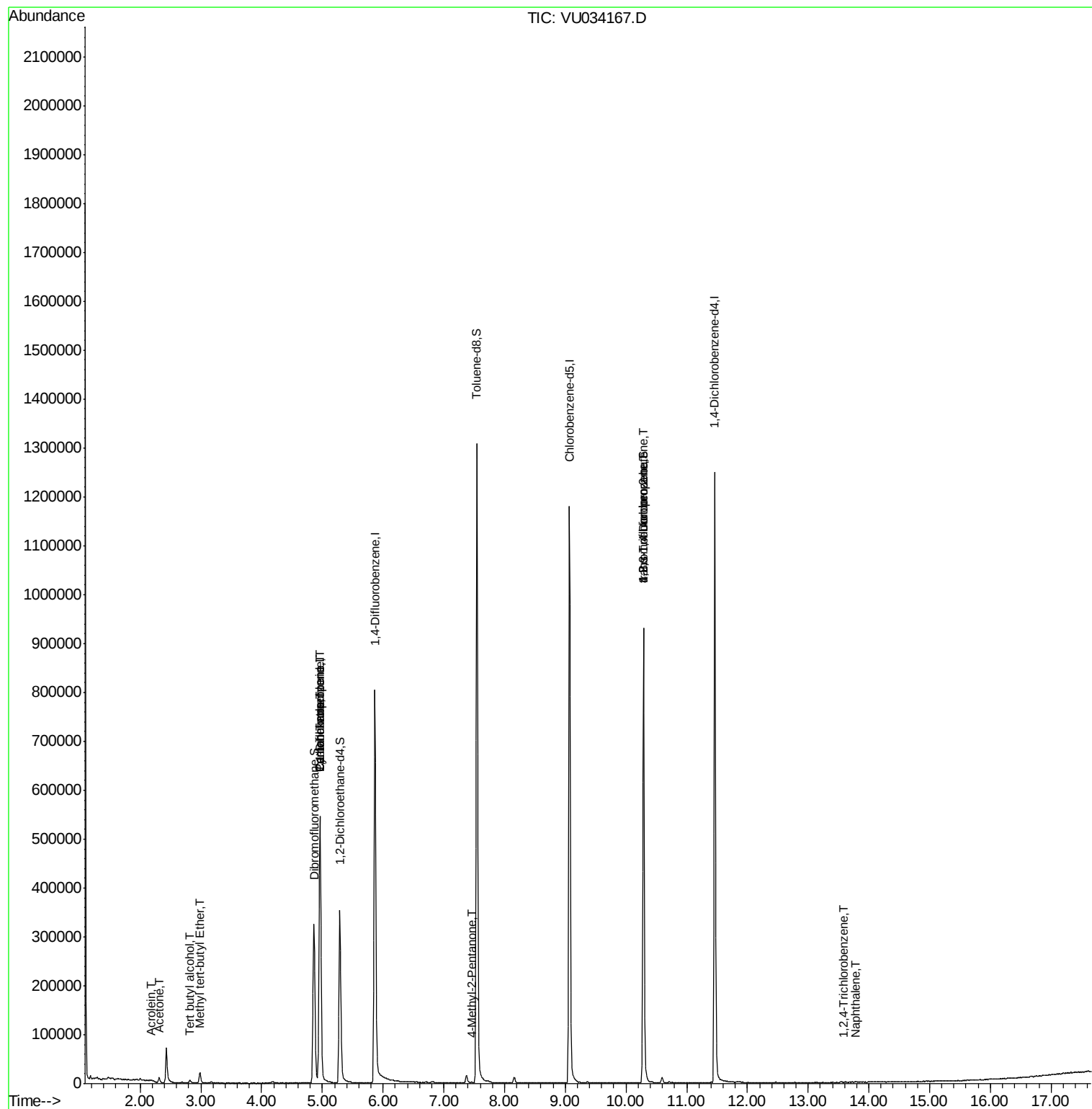
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1270	Below Cal		93
5) Bromomethane	1.63	94	1028	Below Cal		81
11) Tert butyl alcohol	2.81	59	5672	4.368	ug/l #	84
13) Acrolein	2.19	56	197	0.361	ug/l #	53
16) Acetone	2.31	43	10569	3.678	ug/l	98
19) Methyl tert-butyl Ether	2.98	73	21632	1.501	ug/l	94
31) Cyclohexane	4.96	56	8234	0.979	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	32016	4.724	ug/l #	49
38) Carbon Tetrachloride	4.96	117	40543	6.198	ug/l #	16
51) 4-Methyl-2-Pentanone	7.45	43	1994	0.250	ug/l #	72
76) 1,2,3-Trichloropropane	10.29	75	153021	19.510	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	153021	65.694	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.58	180	63	1.122	ug/l #	13
95) Naphthalene	13.79	128	1314	1.848	ug/l #	70

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034167.D

Acq: 01 Sep 2019 14:33

Instrument :

MSVOA_U

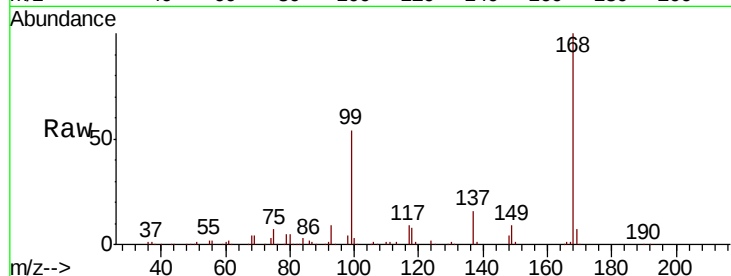
ClientSampleId :

Tot Ion:168 Resp: 439487

Ion Ratio Lower Upper

168 100

99 54.5 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034167.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034167.D (-1185) (-)

4.96

200000

150000

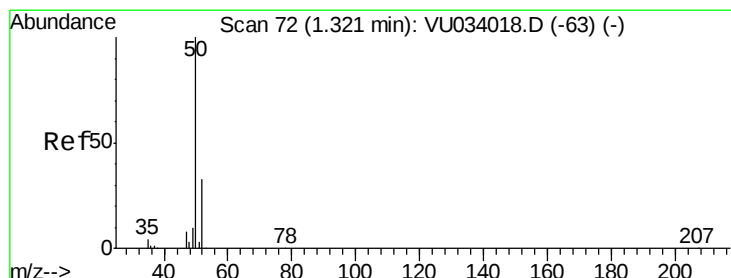
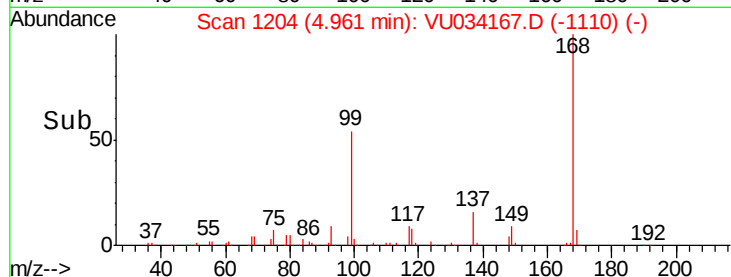
100000

50000

0

4.90 5.00

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034167.D

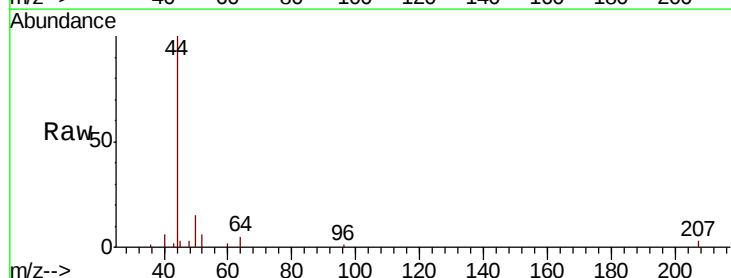
Acq: 01 Sep 2019 14:33

Tgt Ion: 50 Resp: 1270

Ion Ratio Lower Upper

50 100

52 36.8 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034167.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VU034167.D (-1) (-)

1.32

1200

1000

800

600

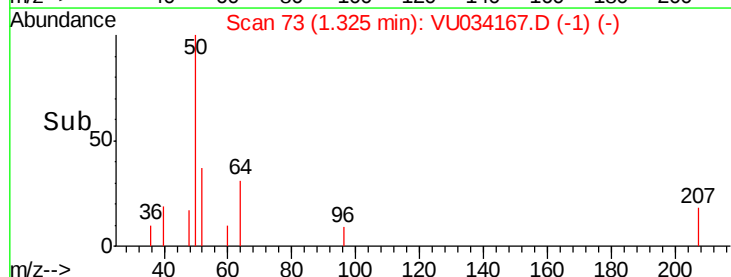
400

200

0

1.28 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: VU034167.D

Acq: 01 Sep 2019 14:33

Instrument :

MSVOA_U

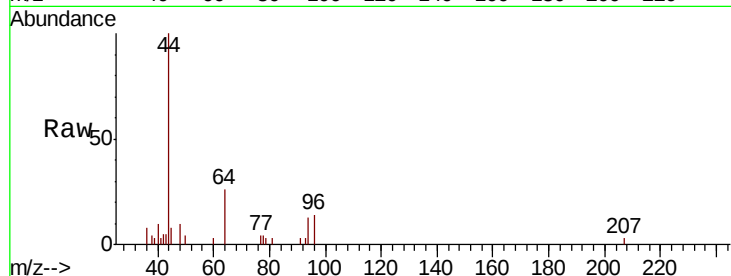
ClientSampleId :

Tot Ion: 94 Resp: 1028

Ion Ratio Lower Upper

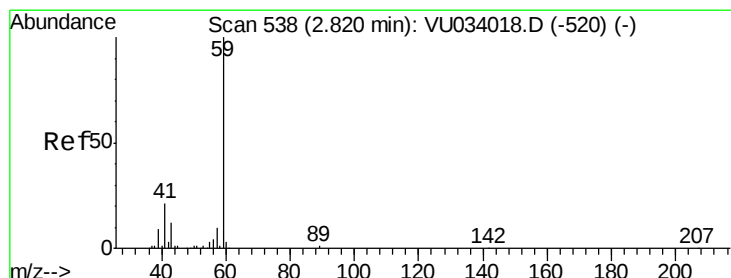
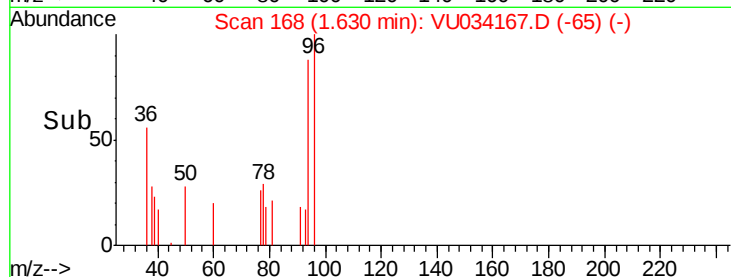
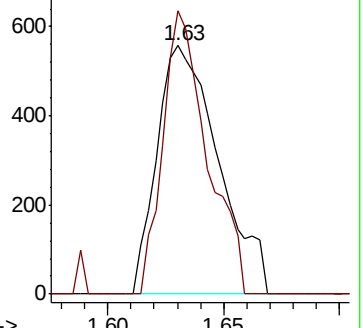
94 100

96 113.8 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#11

Tert butyl alcohol

Concen: 4.368 ug/l

RT: 2.81 min Scan# 536

Delta R.T. -0.01 min

Lab File: VU034167.D

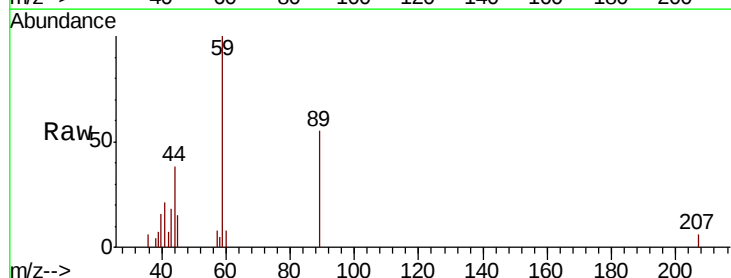
Acq: 01 Sep 2019 14:33

Tgt Ion: 59 Resp: 5672

Ion Ratio Lower Upper

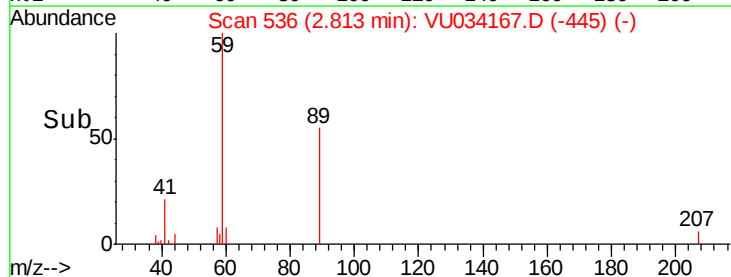
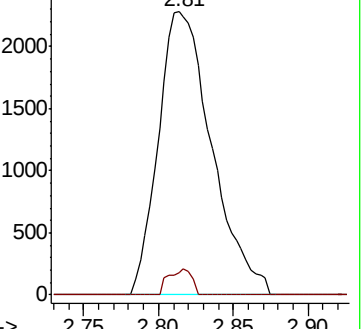
59 100

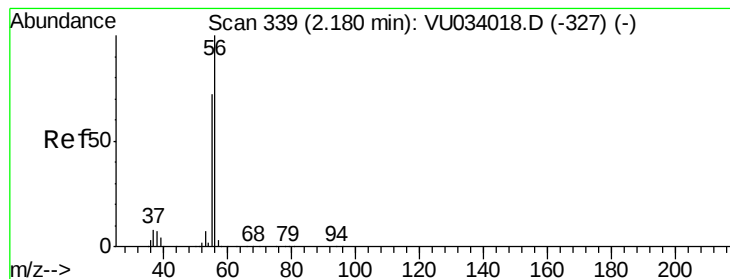
57 3.9 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 0.361 ug/l

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

Lab File: VU034167.D

Acq: 01 Sep 2019 14:33

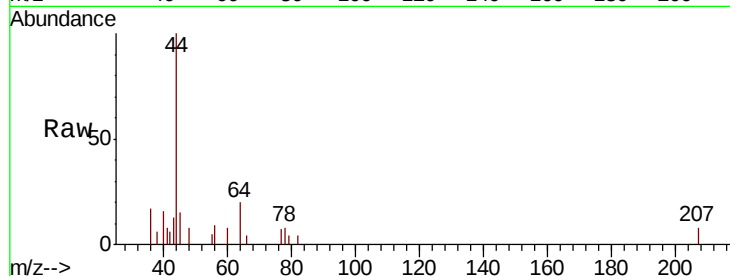
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 197

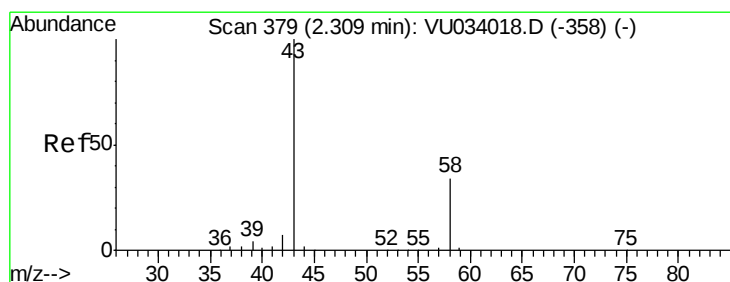
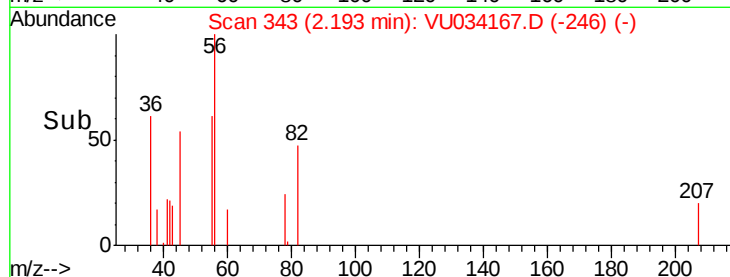
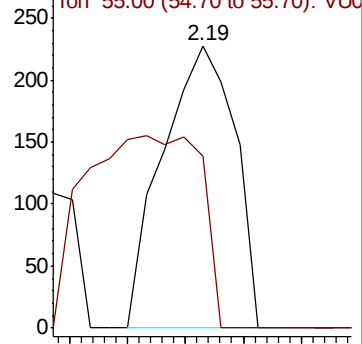
Ion Ratio Lower Upper

56 100

55 110.2 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU034167.D (-246) (-)



#16

Acetone

Concen: 3.678 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034167.D

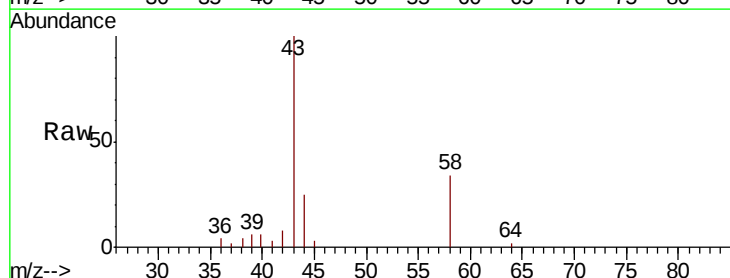
Acq: 01 Sep 2019 14:33

Tgt Ion: 43 Resp: 10569

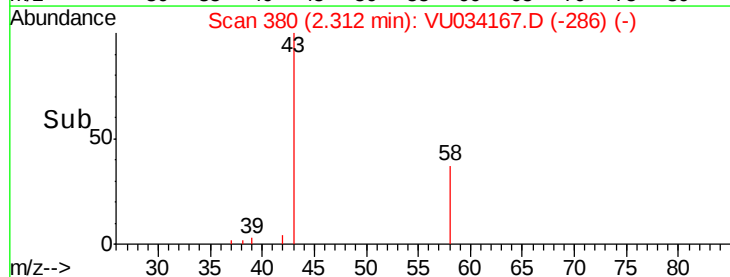
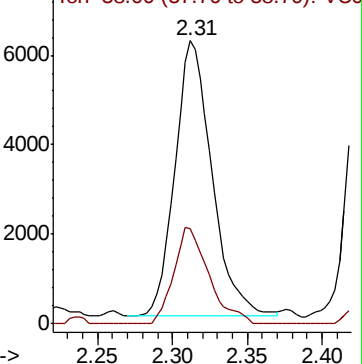
Ion Ratio Lower Upper

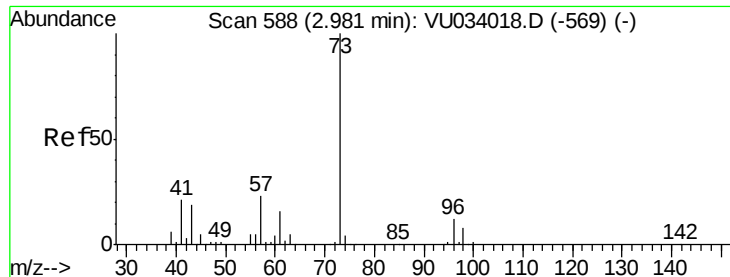
43 100

58 34.7 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034167.D (-286) (-)

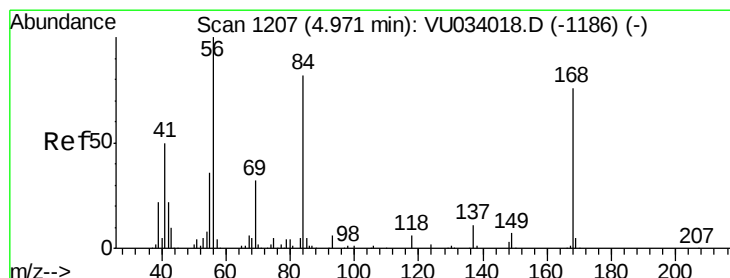
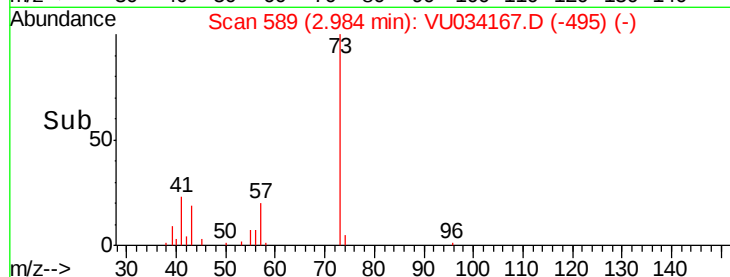
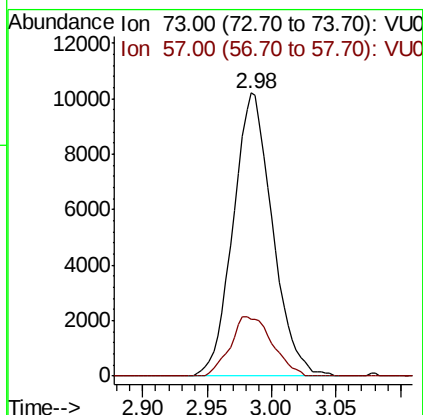
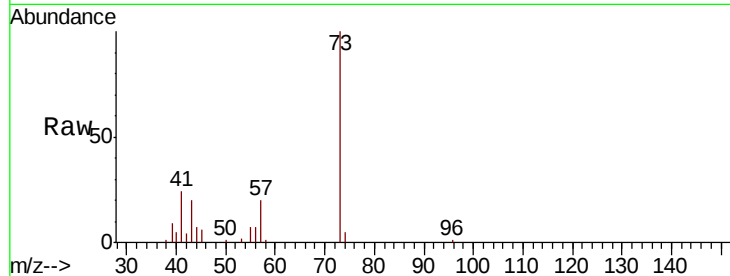




#19
Methvl tert-butvl Ether
Concen: 1.501 ug/l
RT: 2.98 min Scan# 589
Delta R.T. 0.00 min
Lab File: VU034167.D
Acq: 01 Sep 2019 14:33

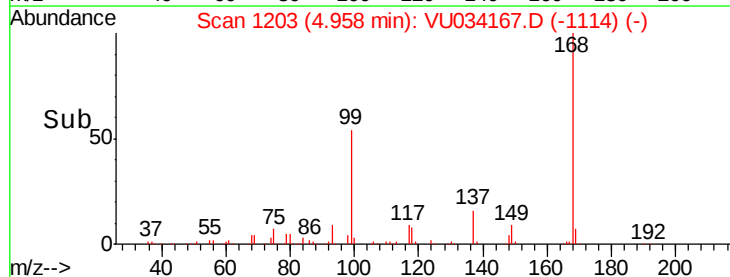
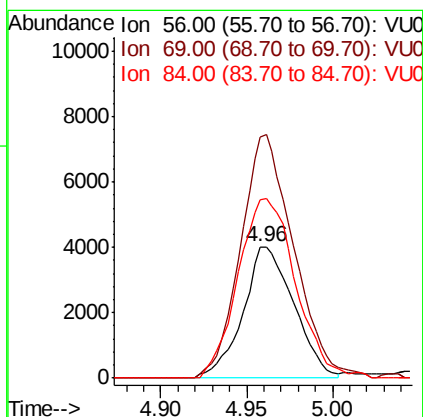
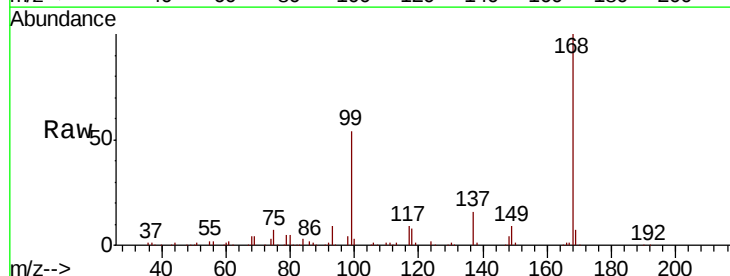
Instrument :
MSVOA_U
ClientSampleId :

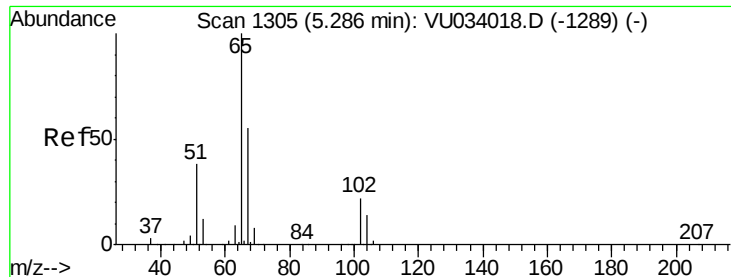
Tot Ion: 73 Resp: 21632
Ion Ratio Lower Upper
73 100
57 20.1 18.3 27.5



#31
Cyclohexane
Concen: 0.979 ug/l
RT: 4.96 min Scan# 1203
Delta R.T. -0.01 min
Lab File: VU034167.D
Acq: 01 Sep 2019 14:33

Tgt Ion: 56 Resp: 8234
Ion Ratio Lower Upper
56 100
69 183.7 25.4 38.0#
84 135.8 65.8 98.8#





#33

1,2-Dichloroethane-d4

Concen: 50.210 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034167.D

Acq: 01 Sep 2019 14:33

Instrument :

MSVOA_U

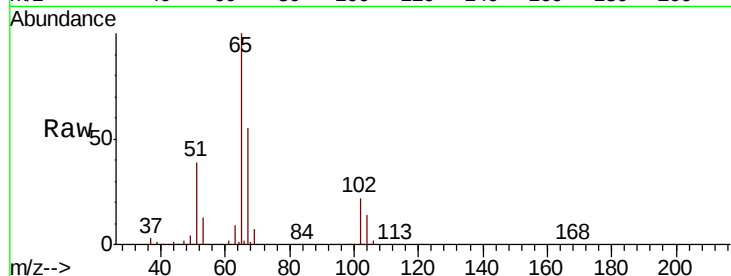
ClientSampled :

Tot Ion: 65 Resp: 282749

Ion Ratio Lower Upper

65 100

67 54.8 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034167.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034167.D (-1289) (-)

5.29

150000

100000

50000

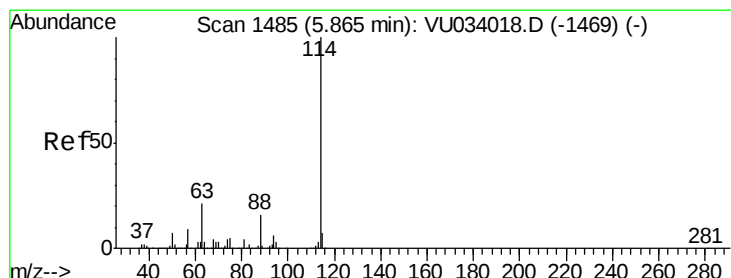
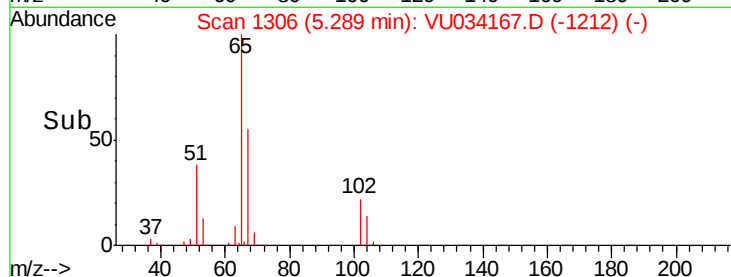
0

Time-->

5.20

5.30

5.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VU034167.D

Acq: 01 Sep 2019 14:33

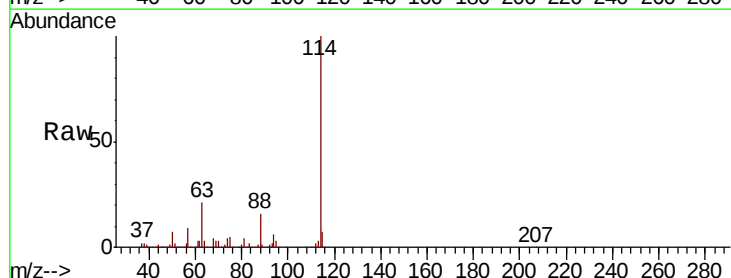
Tgt Ion: 114 Resp: 716484

Ion Ratio Lower Upper

114 100

63 21.3 0.0 42.0

88 16.1 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): VU034167.D (-1392) (-)

Ion 63.00 (62.70 to 63.70): VU034167.D (-1392) (-)

Ion 87.90 (87.60 to 88.60): VU034167.D (-1392) (-)

5.86

400000

300000

200000

100000

0

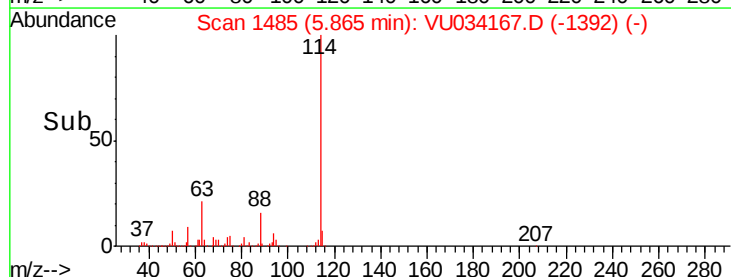
Time-->

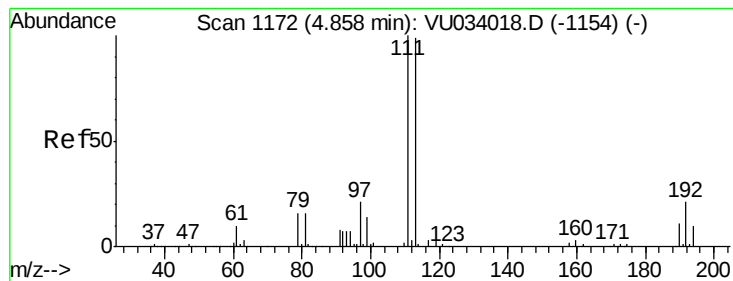
5.80

5.90

6.00

6.10





#35

Dibromofluoromethane

Concen: 47.473 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034167.D

Acq: 01 Sep 2019 14:33

Instrument :
MSVOA_U
ClientSampled :

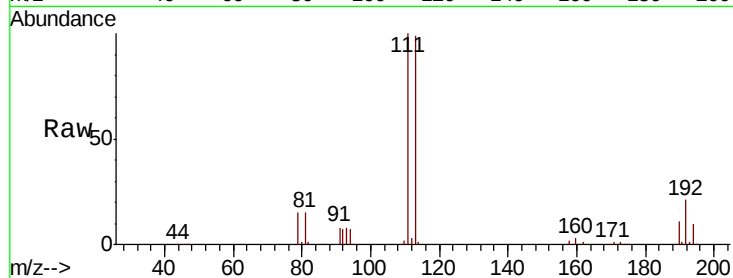
Tot Ion:113 Resp: 235914

Ion Ratio Lower Upper

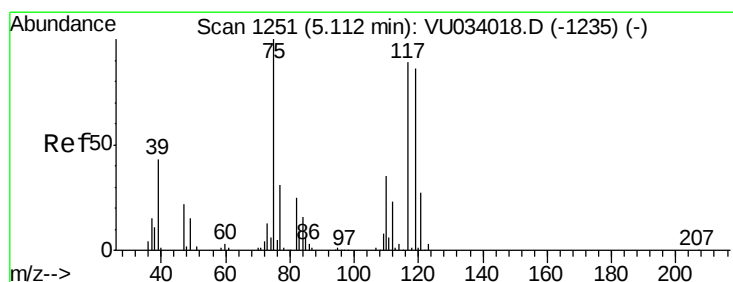
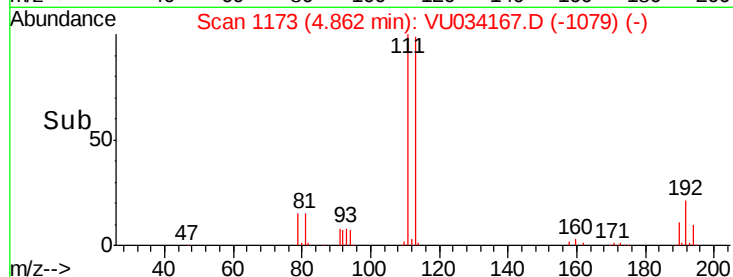
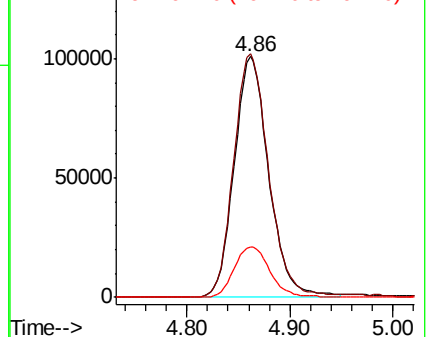
113 100

111 102.0 81.7 122.5

192 21.8 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: 4.724 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034167.D

Acq: 01 Sep 2019 14:33

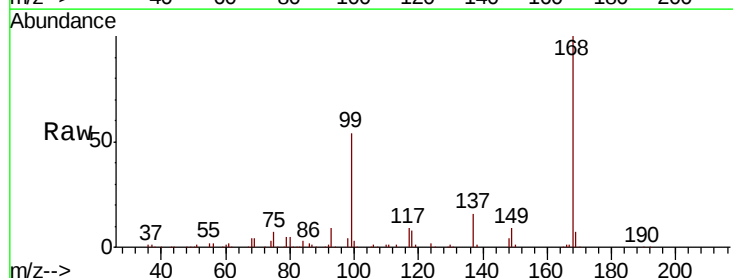
Tgt Ion: 75 Resp: 32016

Ion Ratio Lower Upper

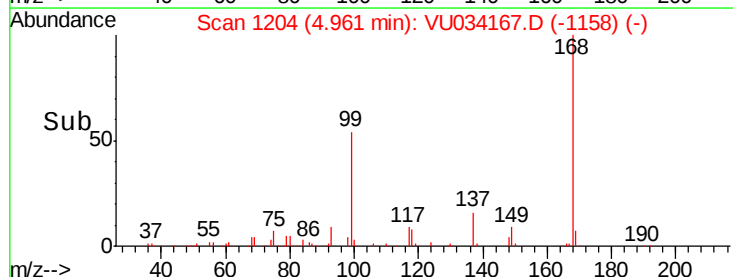
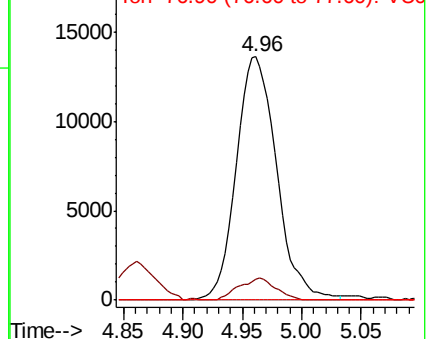
75 100

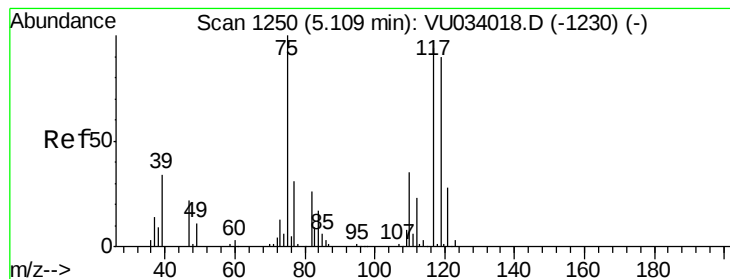
110 8.2 17.8 53.5#

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: 6.198 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.14 min

Lab File: VU034167.D

Acq: 01 Sep 2019 14:33

Instrument :

MSVOA_U

ClientSampleId :

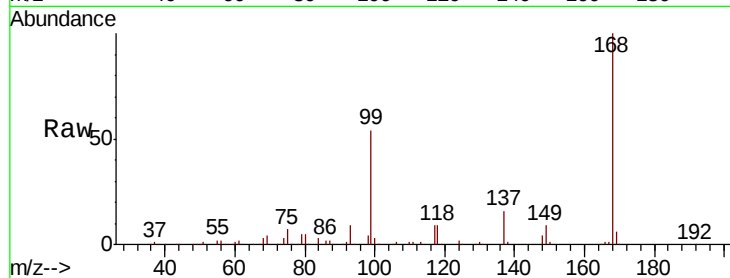
Tot Ion:117 Resp: 40543

Ion Ratio Lower Upper

117 100

119 4.7 77.0 115.4#

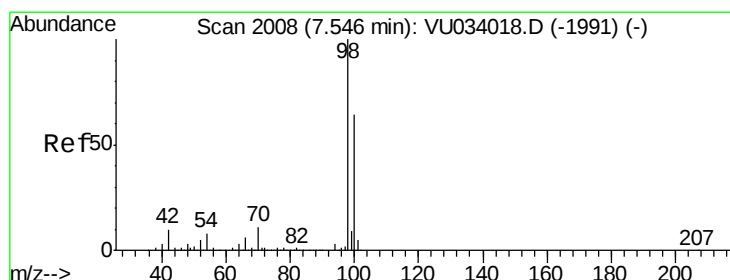
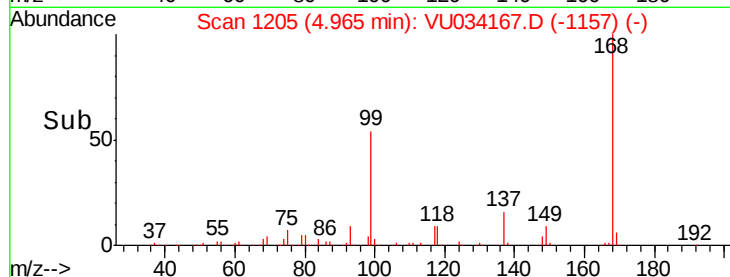
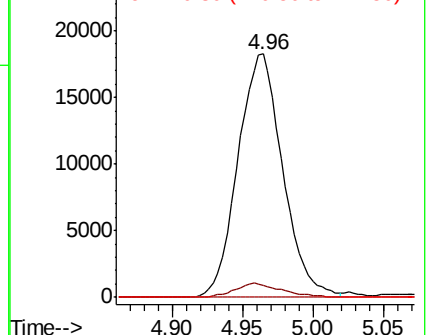
121 0.0 23.9 35.9#



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: 48.974 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034167.D

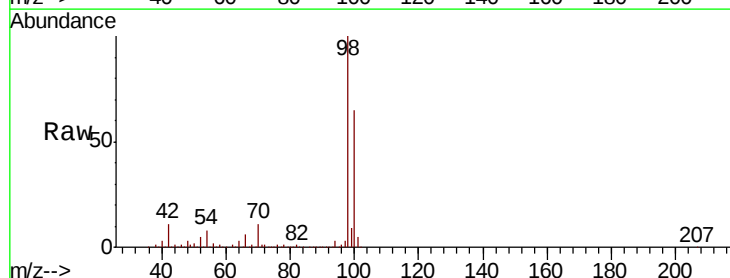
Acq: 01 Sep 2019 14:33

Tgt Ion: 98 Resp: 911277

Ion Ratio Lower Upper

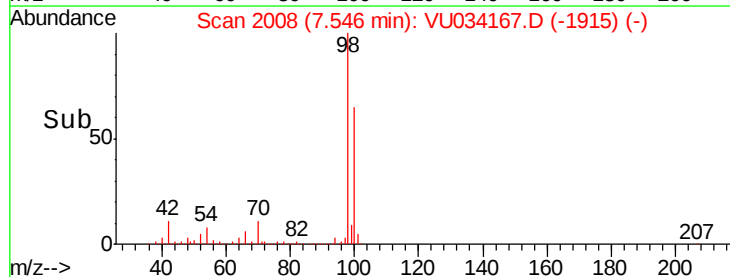
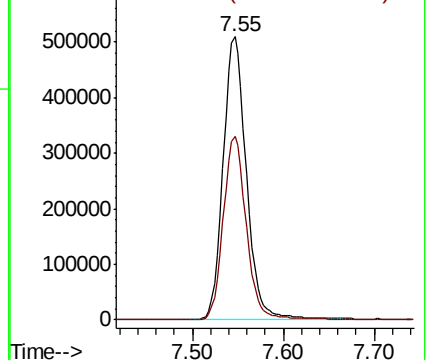
98 100

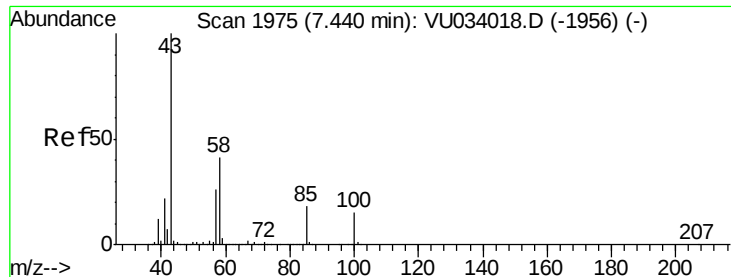
100 64.6 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#51

4-Methyl-2-Pentanone

Concen: 0.250 ug/l

RT: 7.45 min Scan# 1978

Delta R.T. 0.01 min

Lab File: VU034167.D

Acq: 01 Sep 2019 14:33

Instrument :

MSVOA_U

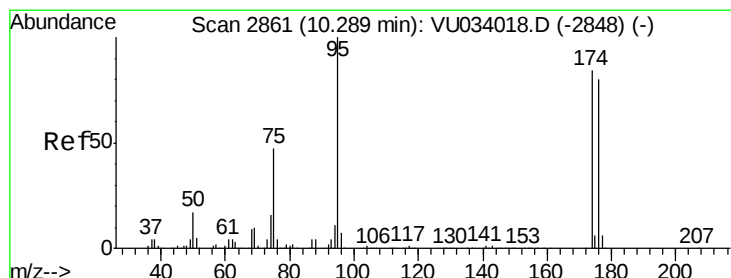
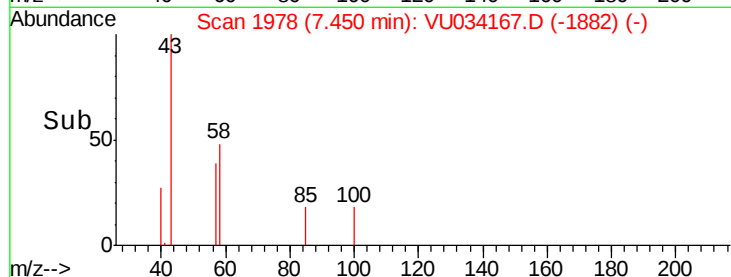
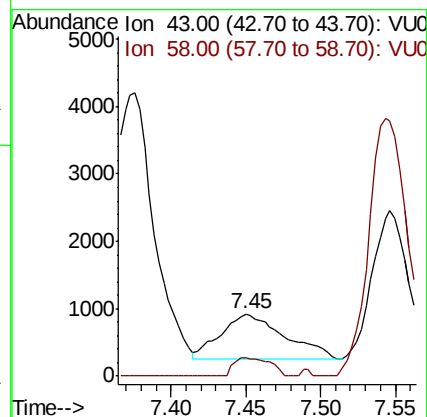
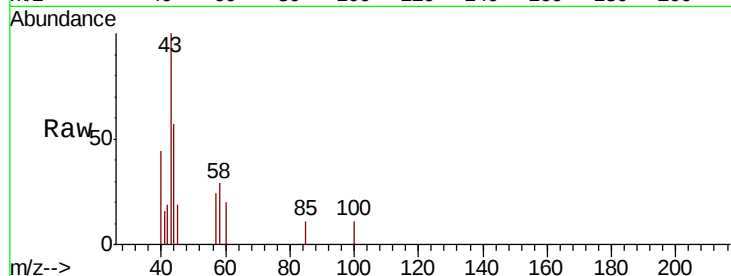
ClientSampled :

Tot Ion: 43 Resp: 1994

Ion Ratio Lower Upper

43 100

58 23.0 32.2 48.4#



#62

4-Bromofluorobenzene

Concen: 44.243 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034167.D

Acq: 01 Sep 2019 14:33

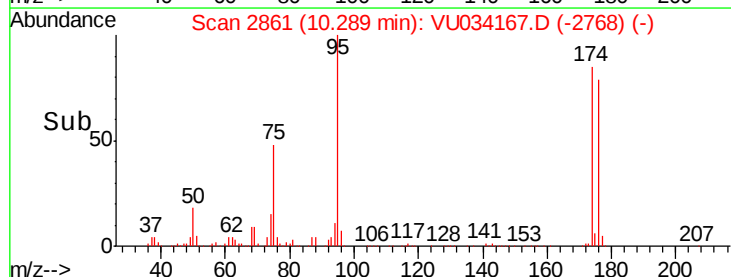
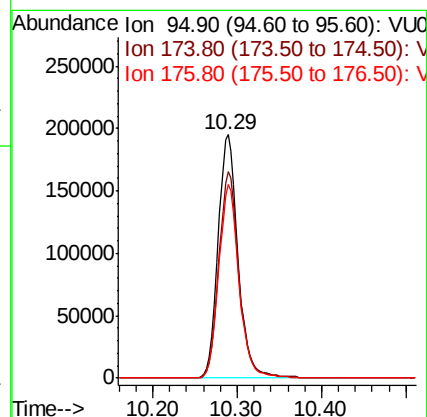
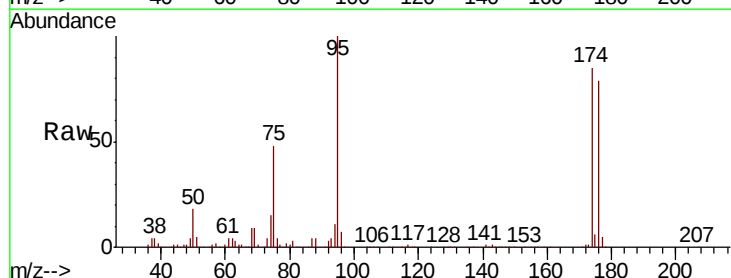
Tgt Ion: 95 Resp: 320240

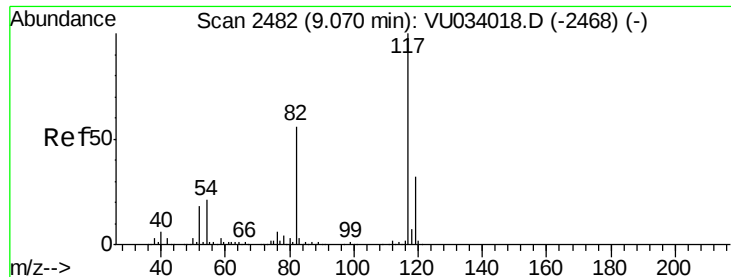
Ion Ratio Lower Upper

95 100

174 85.5 0.0 168.8

176 80.7 0.0 161.8

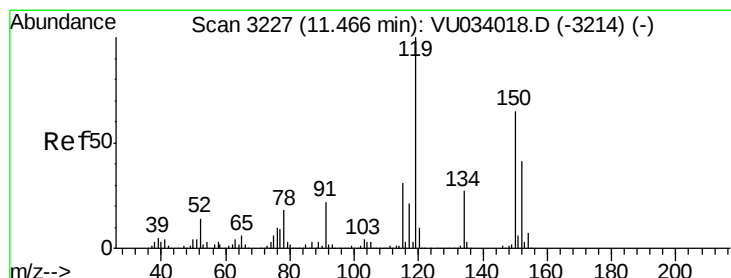
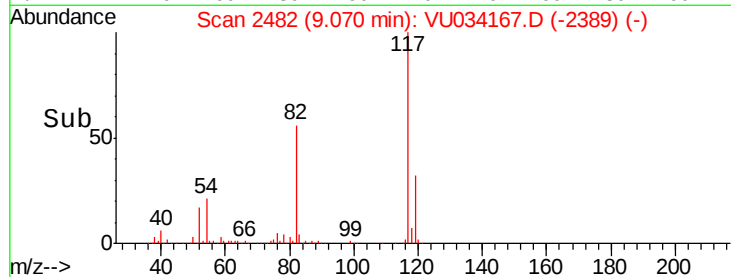
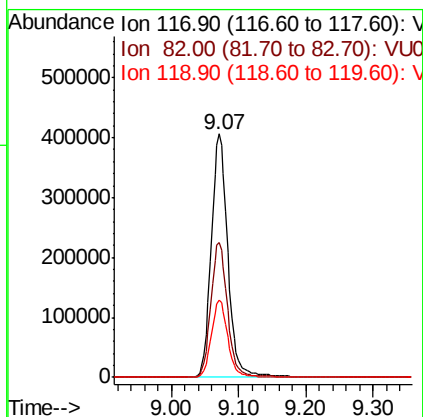
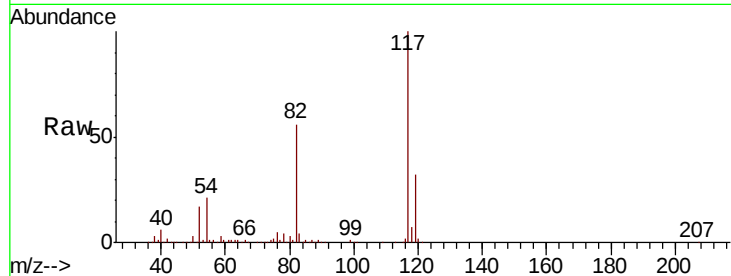




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034167.D
Acq: 01 Sep 2019 14:33

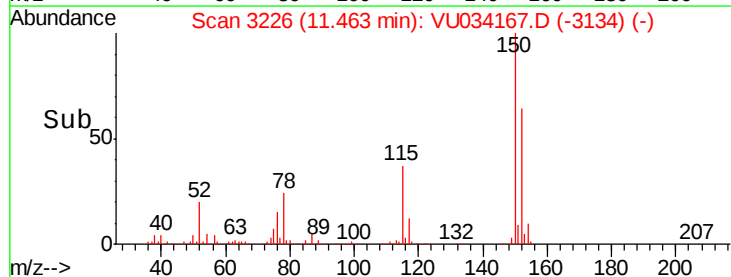
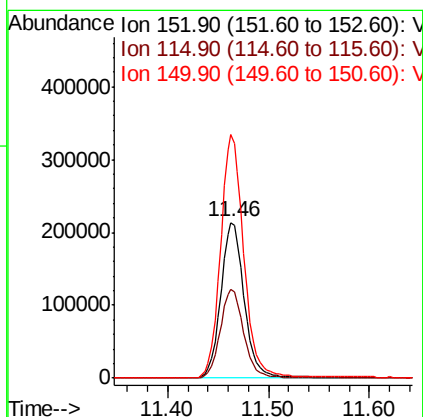
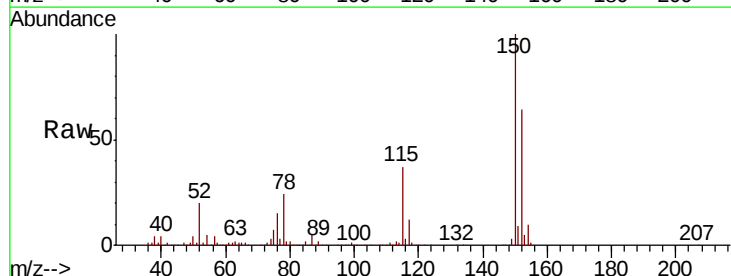
Instrument :
MSVOA_U
ClientSampled :

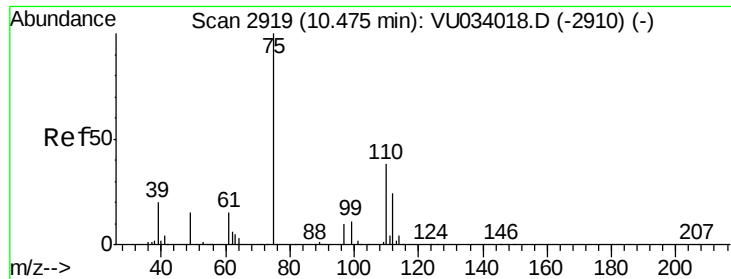
Tot Ion:117 Resp: 696026
Ion Ratio Lower Upper
117 100
82 55.6 45.1 67.7
119 31.7 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034167.D
Acq: 01 Sep 2019 14:33

Tgt Ion:152 Resp: 348000
Ion Ratio Lower Upper
152 100
115 56.6 41.1 123.3
150 155.0 0.0 348.8

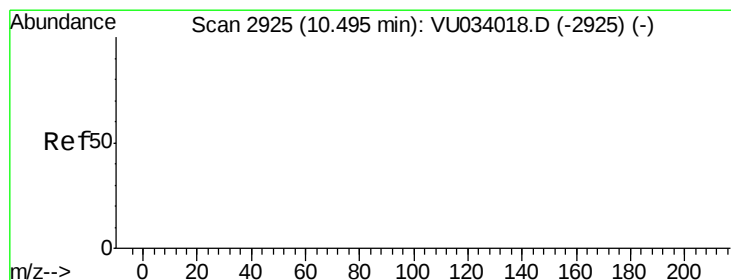
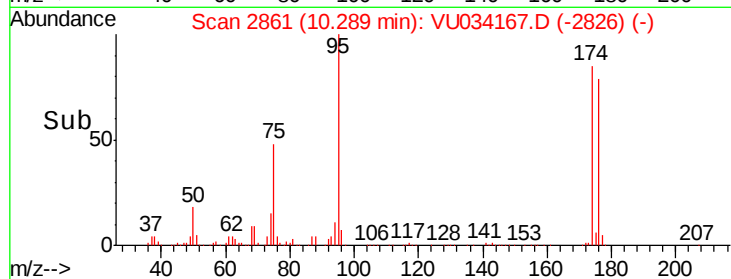
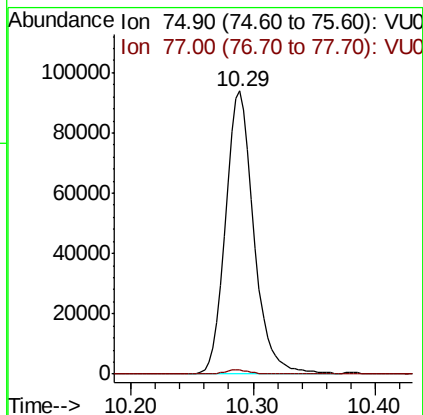
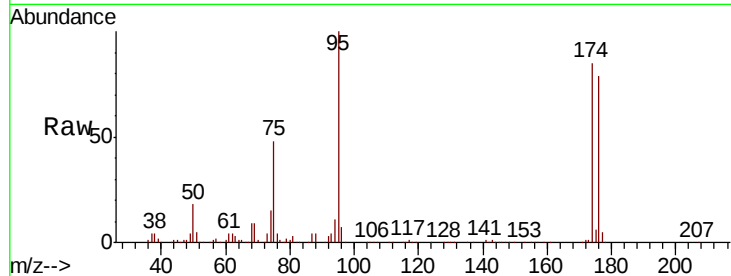




#76
 1,2,3-Trichloropropane
 Concen: 19.510 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034167.D
 Acq: 01 Sep 2019 14:33

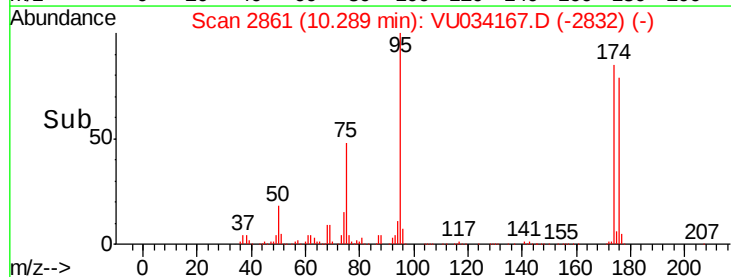
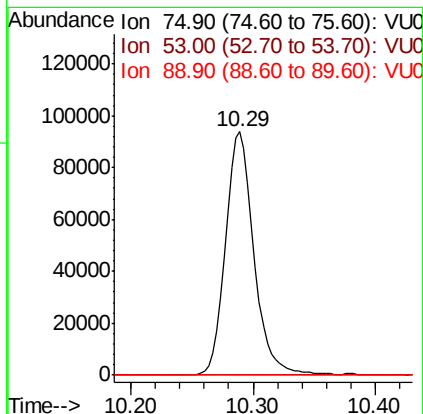
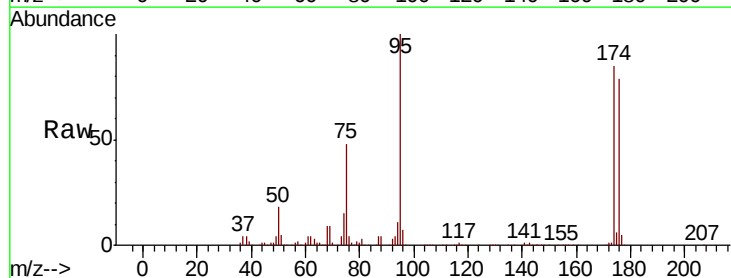
Instrument :
 MSVOA_U
 ClientSampled :

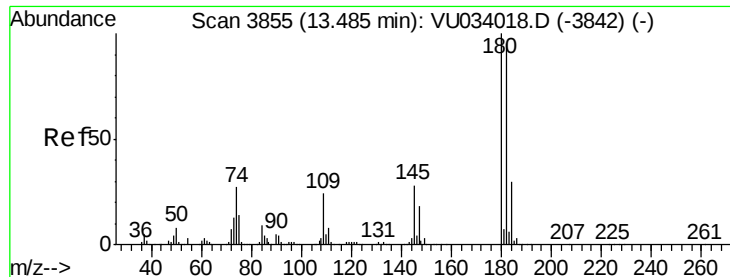
Tot Ion: 75 Resp: 153021
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.694 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034167.D
 Acq: 01 Sep 2019 14:33

Tgt Ion: 75 Resp: 153021
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.1 0.0 0.0#

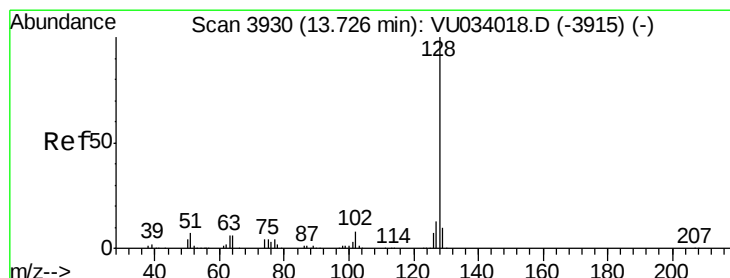
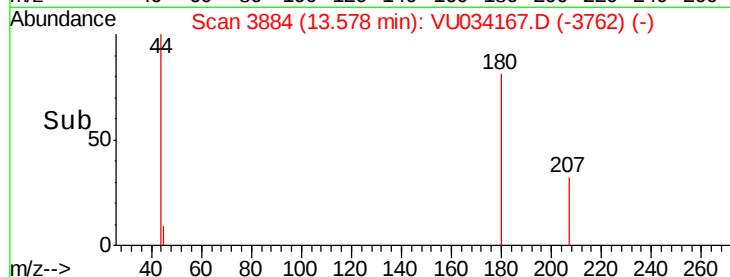
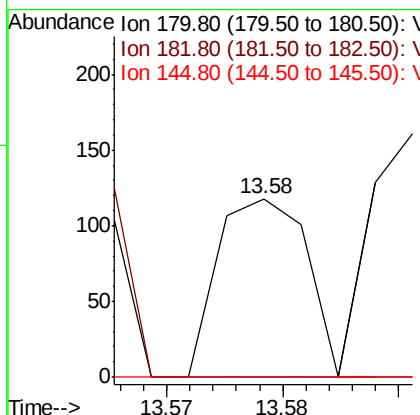
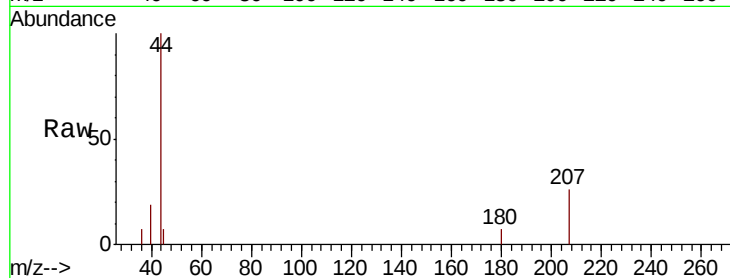




#93
 1,2,4-Trichlorobenzene
 Concen: 1.122 ug/l
 RT: 13.58 min Scan# 3884
 Delta R.T. 0.09 min
 Lab File: VU034167.D
 Acq: 01 Sep 2019 14:33

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 63
 Ion Ratio Lower Upper
 180 100
 182 188.9 47.4 142.2#
 145 0.0 14.1 42.3#



#95
 Naphthalene
 Concen: 1.848 ug/l
 RT: 13.79 min Scan# 3950
 Delta R.T. 0.06 min
 Lab File: VU034167.D
 Acq: 01 Sep 2019 14:33

Tgt Ion:128 Resp: 1314
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.4#
 129 0.0 8.4 12.6#

