

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090219\
 Data File : VU034174.D
 Acq On : 01 Sep 2019 17:16
 Operator : JC/SP
 Sample : K4527-24
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 02 08:34:20 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	445996	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	709006	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	712916	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	347457	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	287652	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	
35) Dibromofluoromethane	4.86	113	238520	48.50	ug/l	0.00
Spiked Amount			Recovery	=	97.00%	
50) Toluene-d8	7.55	98	937214	50.90	ug/l	0.00
Spiked Amount			Recovery	=	101.80%	
62) 4-Bromofluorobenzene	10.29	95	326793	45.62	ug/l	0.00
Spiked Amount			Recovery	=	91.24%	

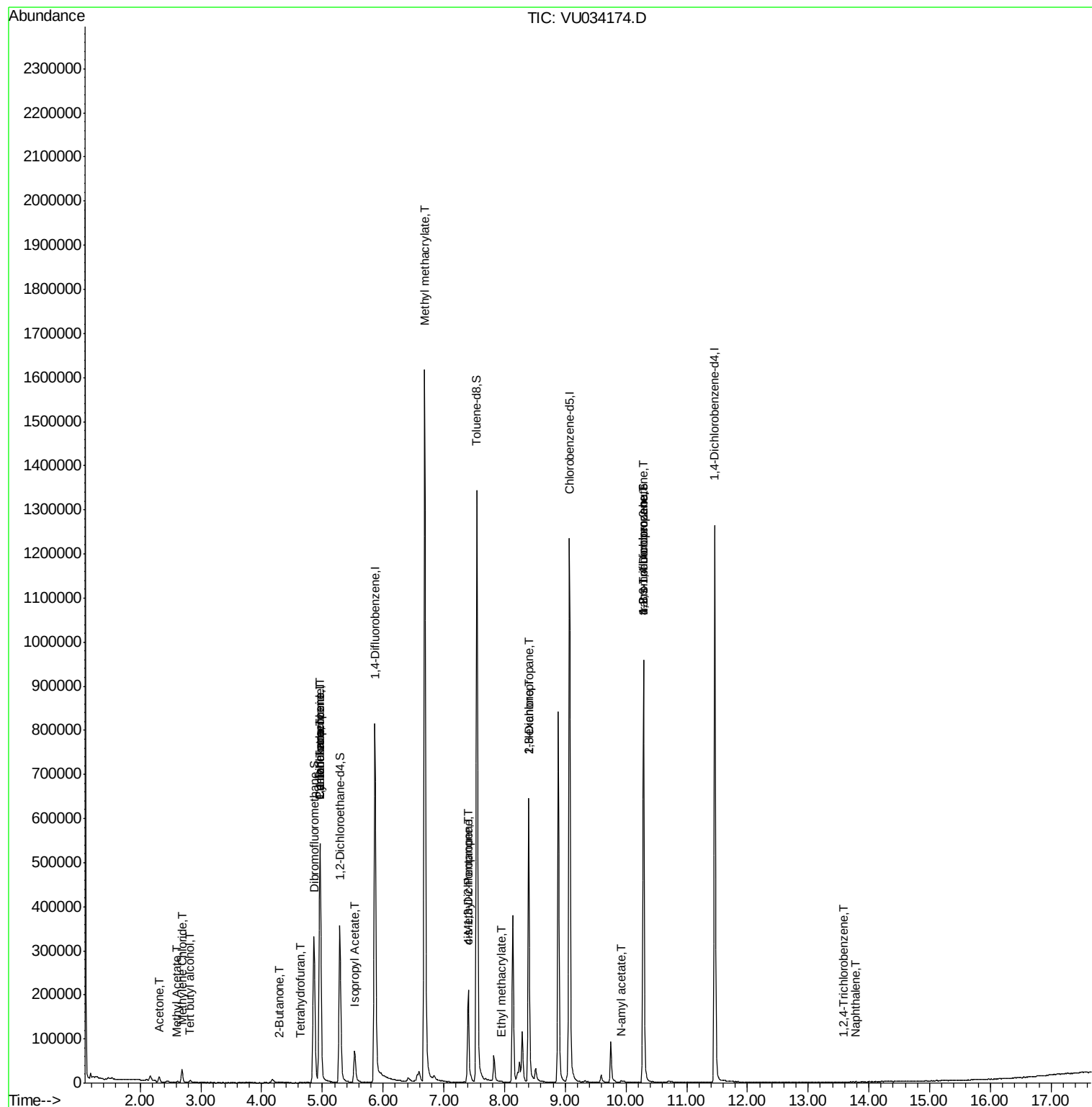
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	519	Below Cal		94
5) Bromomethane	1.62	94	299	Below Cal	#	48
11) Tert butyl alcohol	2.82	59	3513	2.666	ug/l #	73
16) Acetone	2.31	43	13862	4.754	ug/l	97
18) Methyl Acetate	2.61	43	3393	0.450	ug/l	95
20) Methylene Chloride	2.69	84	12986	2.352	ug/l	99
25) 2-Butanone	4.29	43	1407	0.347	ug/l #	87
29) Tetrahydrofuran	4.65	42	566	0.226	ug/l #	40
31) Cyclohexane	4.96	56	8156	0.956	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	32918	4.909	ug/l #	49
38) Carbon Tetrachloride	4.96	117	39766	6.143	ug/l #	16
43) Isopropyl Acetate	5.53	43	88540	7.750	ug/l	98
48) Methyl methacrylate	6.69	41	142984	25.935	ug/l #	39
51) 4-Methyl-2-Pentanone	7.40	43	81004	10.266	ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	38735	4.539	ug/l #	67
56) Ethyl methacrylate	7.96	69	129	0.986	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6592	0.734	ug/l #	42
59) 2-Hexanone	8.40	43	86274	14.484	ug/l #	55
74) N-amyl acetate	9.92	43	2767	0.282	ug/l #	45
76) 1,2,3-Trichloropropane	10.29	75	156722	20.013	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	156722	67.388	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.57	180	40	1.119	ug/l #	12
95) Naphthalene	13.79	128	138	1.796	ug/l #	70

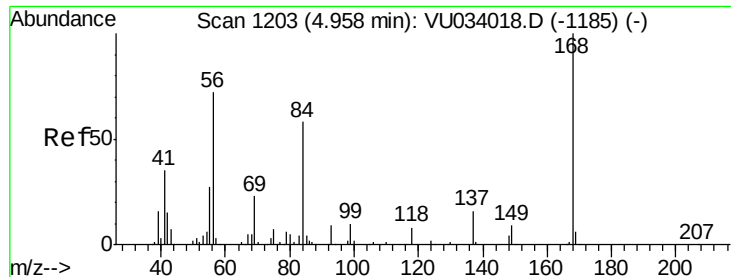
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.01 min

Lab File: VU034174.D

Acq: 01 Sep 2019 17:16

Instrument :

MSVOA_U

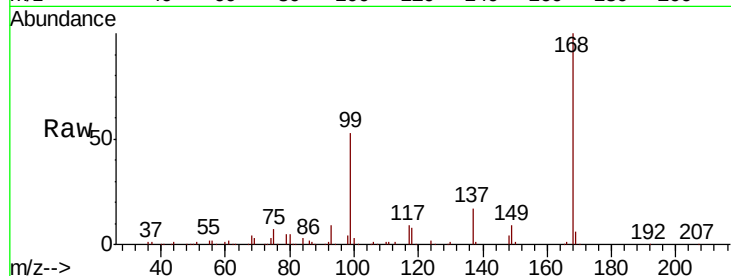
ClientSampled :

Tot Ion:168 Resp: 445996

Ion Ratio Lower Upper

168 100

99 53.5 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034174.D

Ion 98.90 (98.60 to 99.60): VU034174.D

4.96

200000

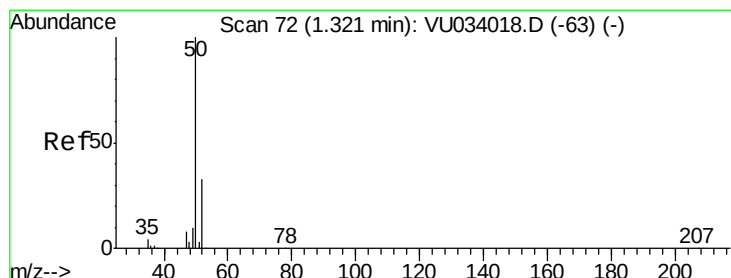
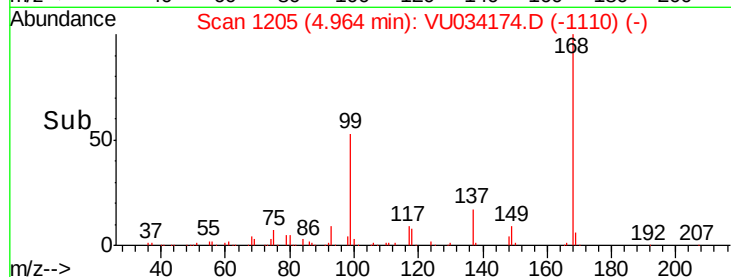
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034174.D

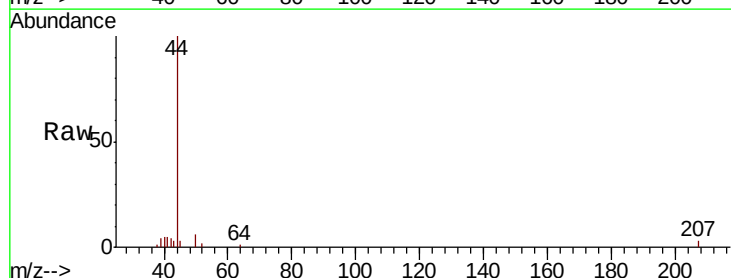
Acq: 01 Sep 2019 17:16

Tgt Ion: 50 Resp: 519

Ion Ratio Lower Upper

50 100

52 29.2 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034174.D

Ion 51.90 (51.60 to 52.60): VU034174.D

1.32

600

500

400

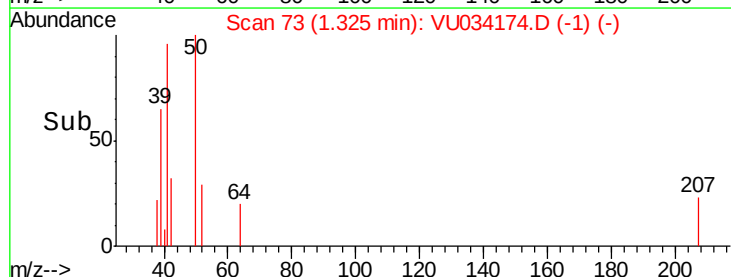
300

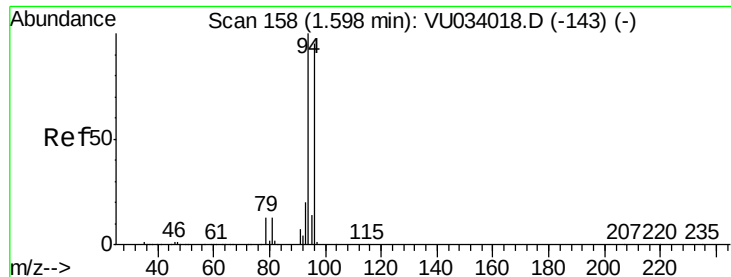
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 165

Delta R.T. 0.02 min

Lab File: VU034174.D

Acq: 01 Sep 2019 17:16

Instrument :

MSVOA_U

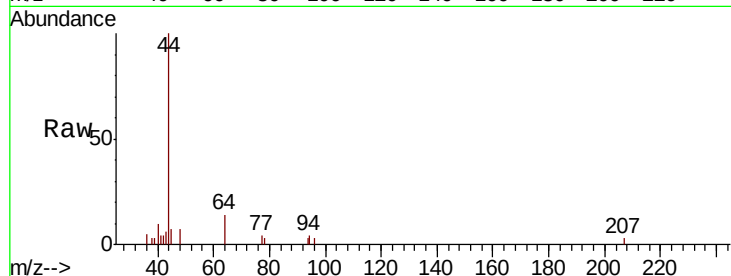
ClientSampleId :

Tot Ion: 94 Resp: 299

Ion Ratio Lower Upper

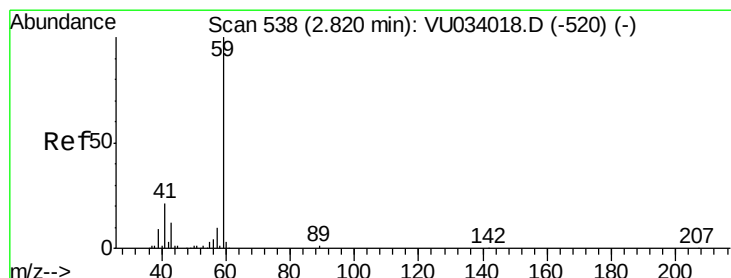
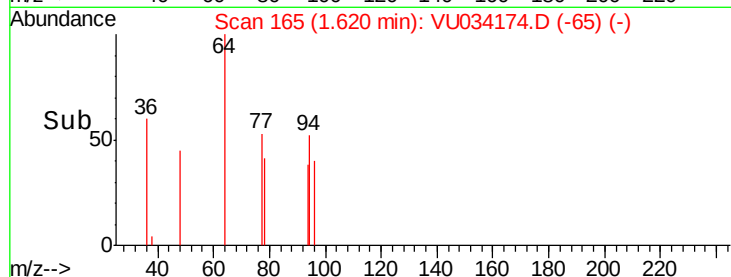
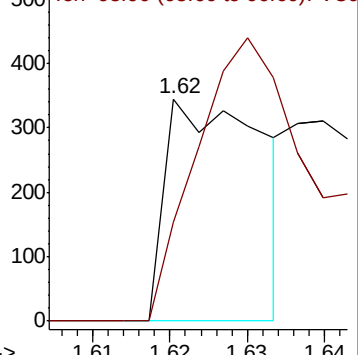
94 100

96 44.3 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: 2.666 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034174.D

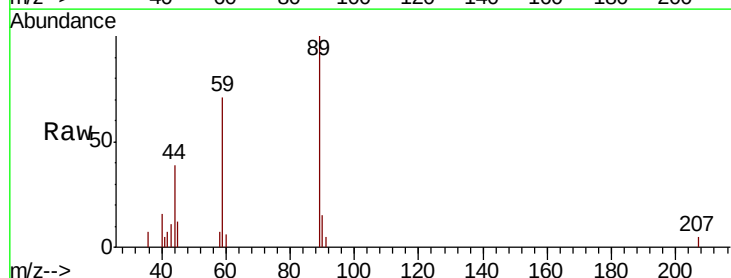
Acq: 01 Sep 2019 17:16

Tgt Ion: 59 Resp: 3513

Ion Ratio Lower Upper

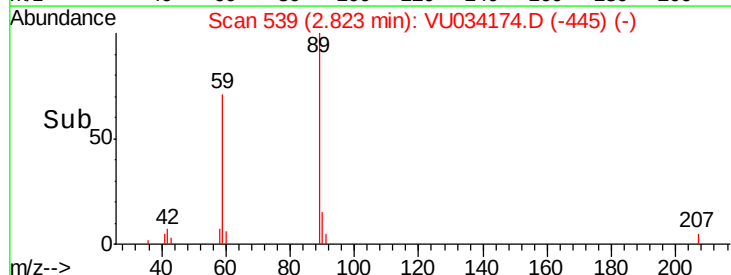
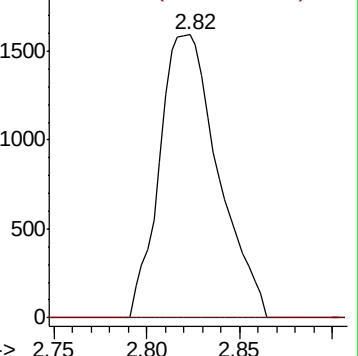
59 100

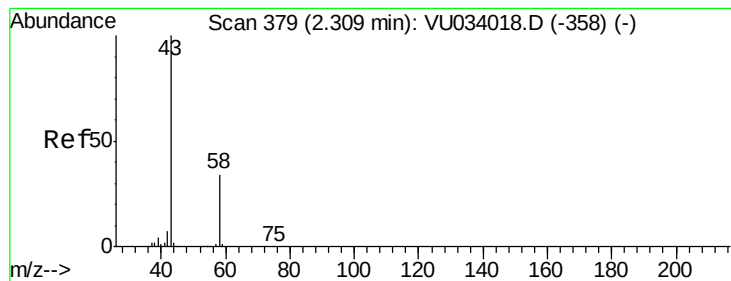
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#16

Acetone

Concen: 4.754 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034174.D

Acq: 01 Sep 2019 17:16

Instrument :

MSVOA_U

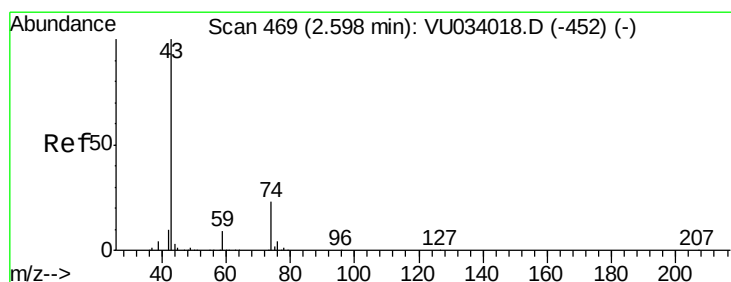
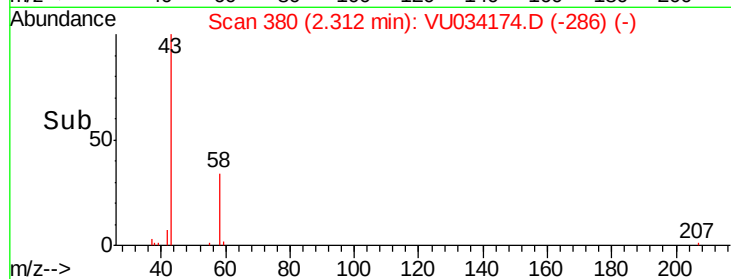
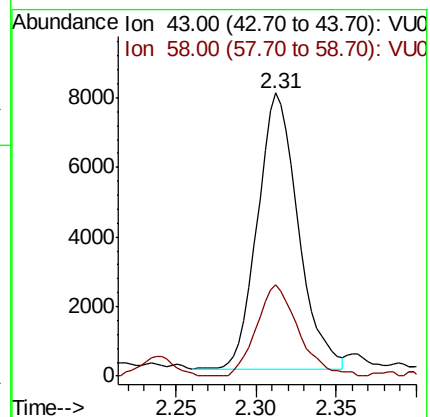
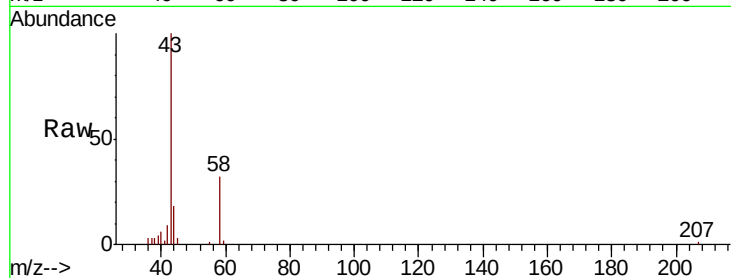
ClientSampleId :

Tot Ion: 43 Resp: 13862

Ion Ratio Lower Upper

43 100

58 32.0 26.8 40.2



#18

Methyl Acetate

Concen: 0.450 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.02 min

Lab File: VU034174.D

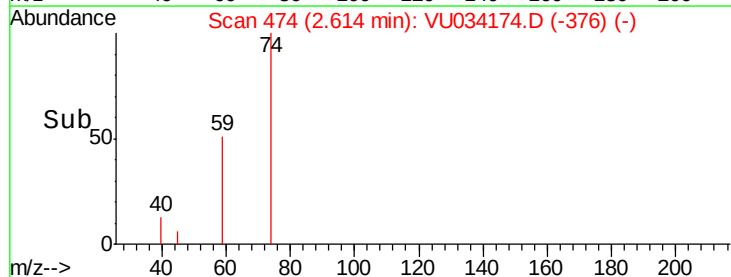
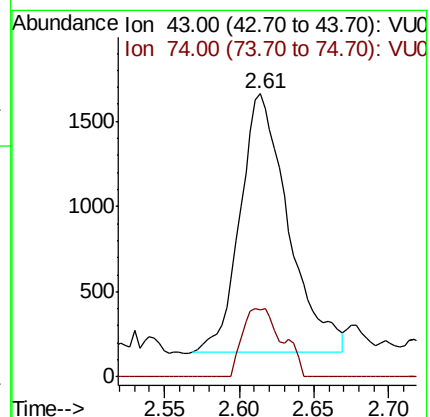
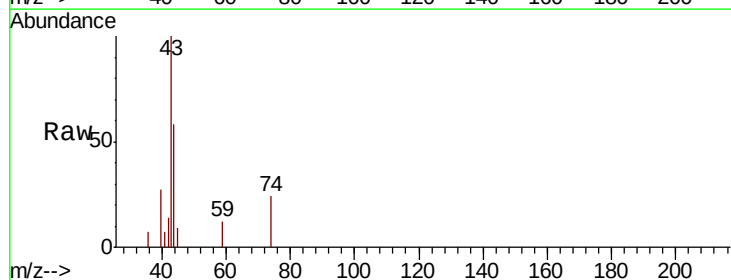
Acq: 01 Sep 2019 17:16

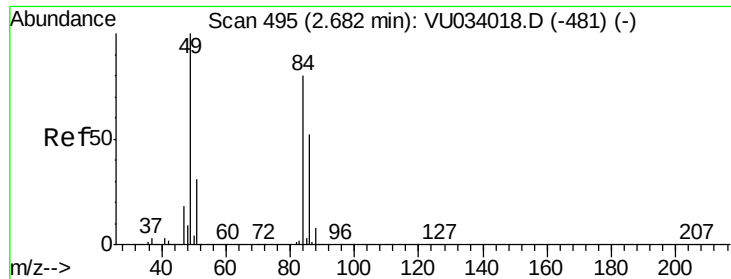
Tgt Ion: 43 Resp: 3393

Ion Ratio Lower Upper

43 100

74 21.8 19.2 28.8





#20

Methylene Chloride

Concen: 2.352 ug/l

RT: 2.69 min Scan# 498

Delta R.T. 0.01 min

Lab File: VU034174.D

Acq: 01 Sep 2019 17:16

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 84 Resp: 12986

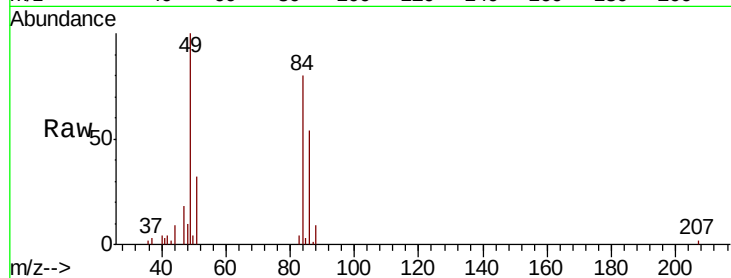
Ion Ratio Lower Upper

84 100

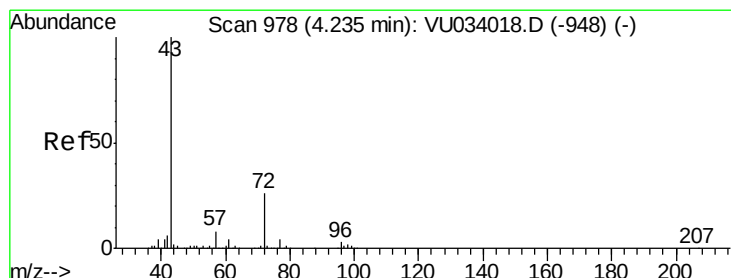
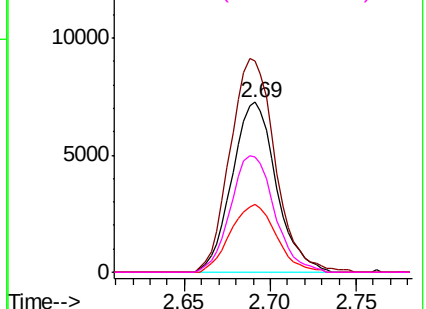
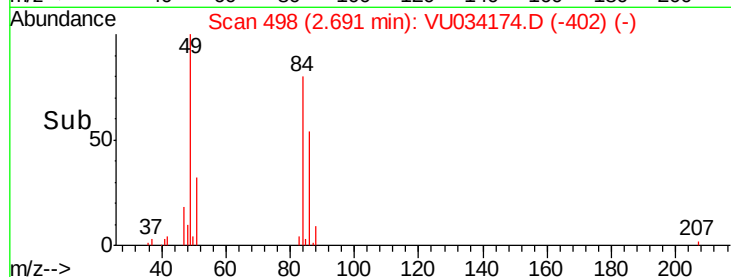
49 124.4 100.2 150.4

51 39.5 30.8 46.2

86 67.4 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



#25

2-Butanone

Concen: 0.347 ug/l

RT: 4.29 min Scan# 995

Delta R.T. 0.05 min

Lab File: VU034174.D

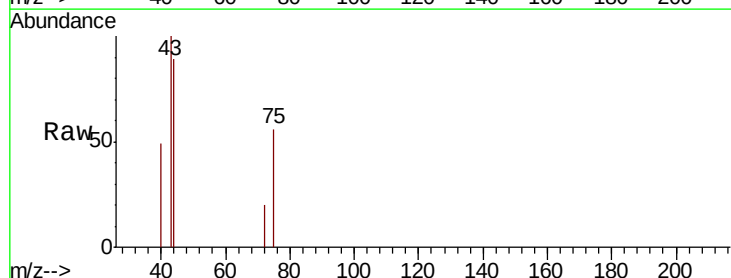
Acq: 01 Sep 2019 17:16

Tgt Ion: 43 Resp: 1407

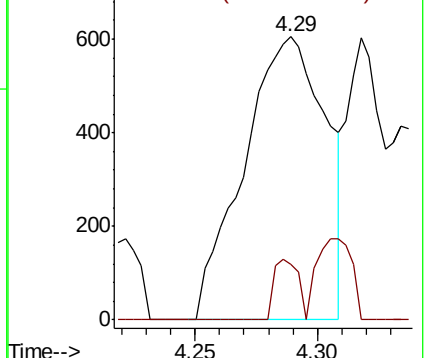
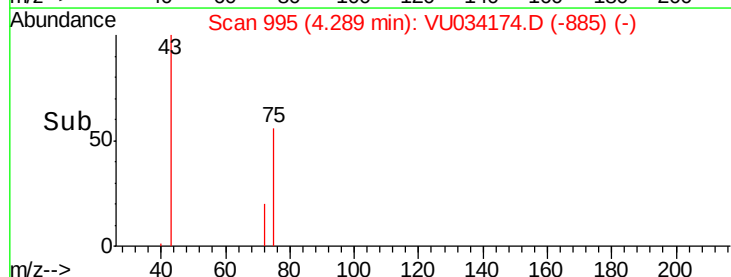
Ion Ratio Lower Upper

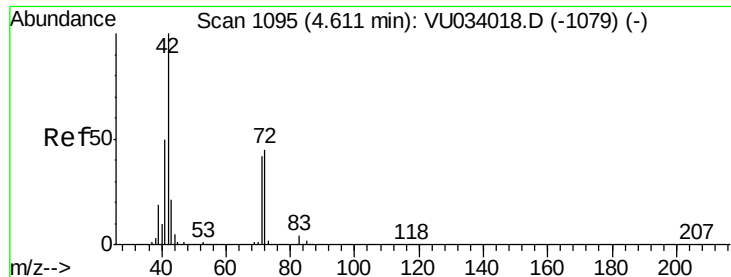
43 100

72 19.8 21.2 31.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 72.00 (71.70 to 72.70): VU0

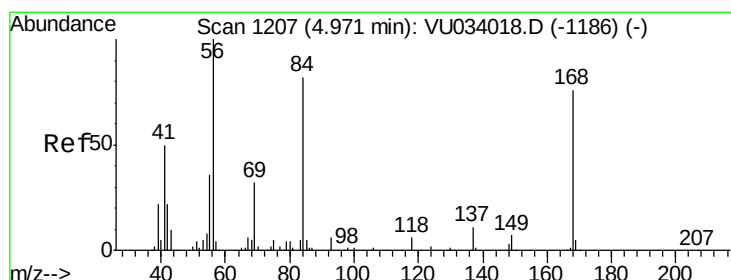
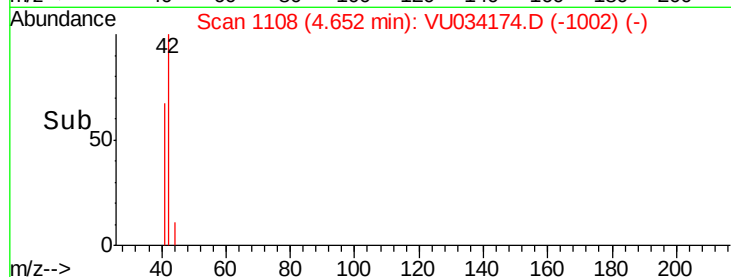
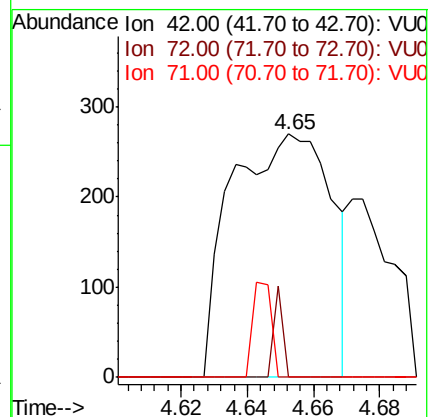
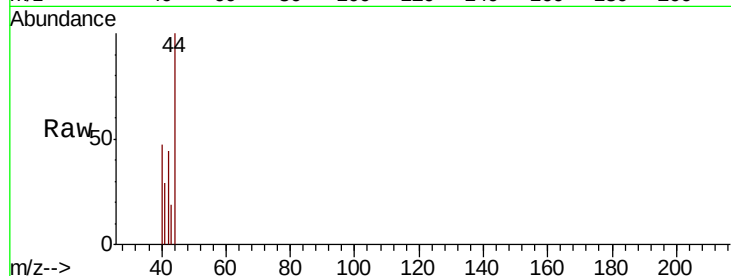




#29
Tetrahydrofuran
Concen: 0.226 ug/l
RT: 4.65 min Scan# 1108
Delta R.T. 0.04 min
Lab File: VU034174.D
Acq: 01 Sep 2019 17:16

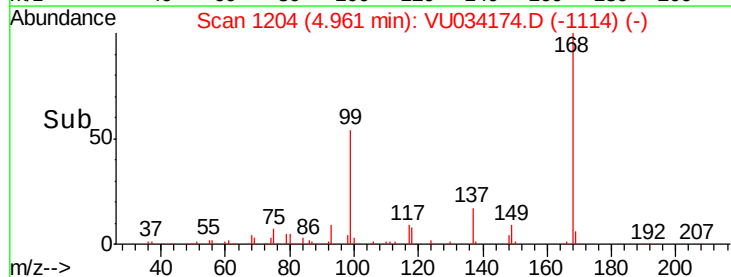
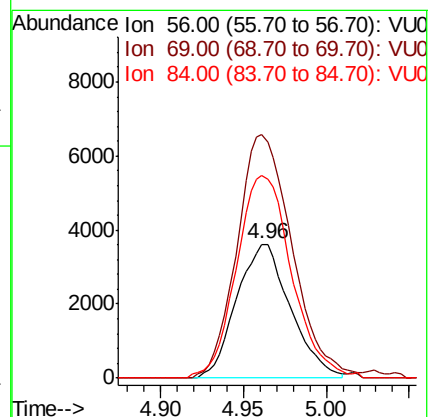
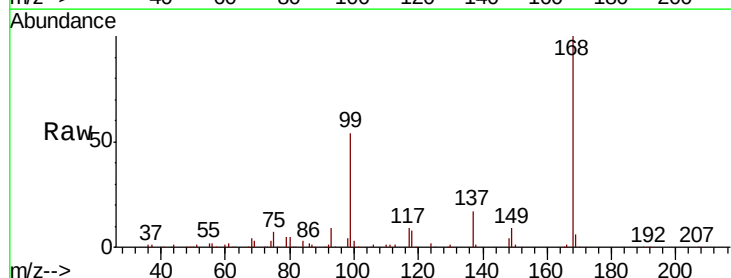
Instrument :
MSVOA_U
ClientSampleId :

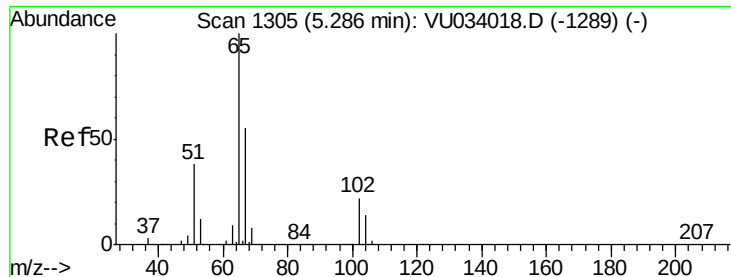
Tot Ion	Ratio	Lower	Upper
42	100		
72	3.4	35.8	53.6#
71	7.1	34.0	51.0#



#31
Cyclohexane
Concen: 0.956 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034174.D
Acq: 01 Sep 2019 17:16

Tgt Ion	Ratio	Lower	Upper
56	100		
69	182.0	25.4	38.0#
84	148.2	65.8	98.8#





#33

1,2-Dichloroethane-d4

Concen: 50.335 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034174.D

Acq: 01 Sep 2019 17:16

Instrument :

MSVOA_U

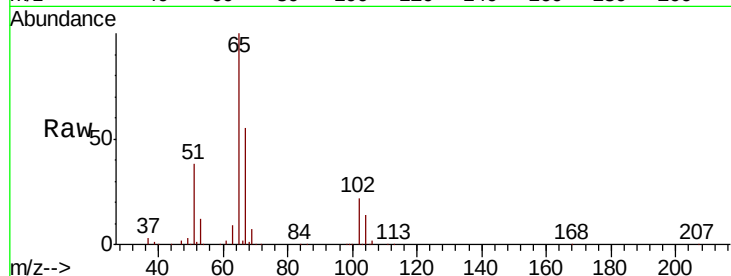
ClientSampled :

Tot Ion: 65 Resp: 287652

Ion Ratio Lower Upper

65 100

67 53.6 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034174.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034174.D (-1289) (-)

5.29

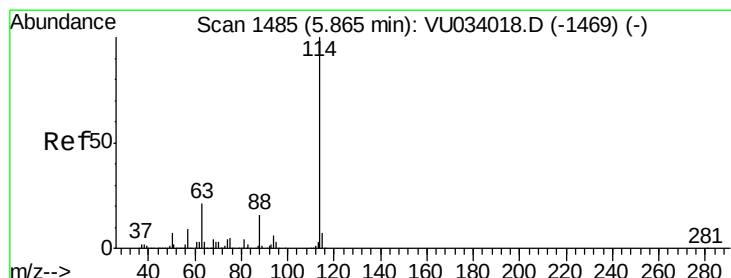
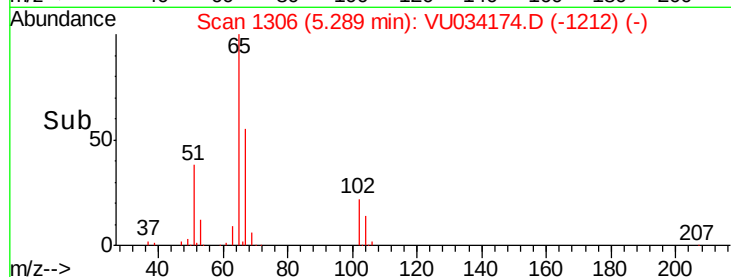
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034174.D

Acq: 01 Sep 2019 17:16

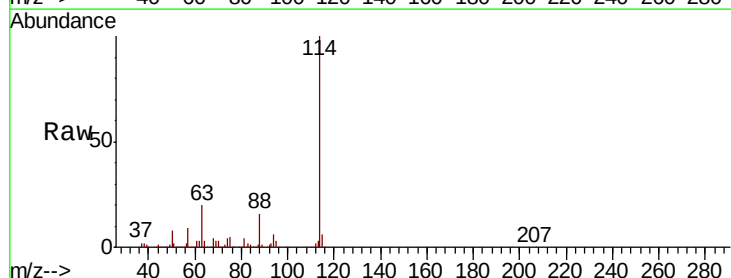
Tgt Ion: 114 Resp: 709006

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.0

88 16.1 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): VU034174.D (-1392) (-)

Ion 63.00 (62.70 to 63.70): VU034174.D (-1392) (-)

Ion 87.90 (87.60 to 88.60): VU034174.D (-1392) (-)

5.87

400000

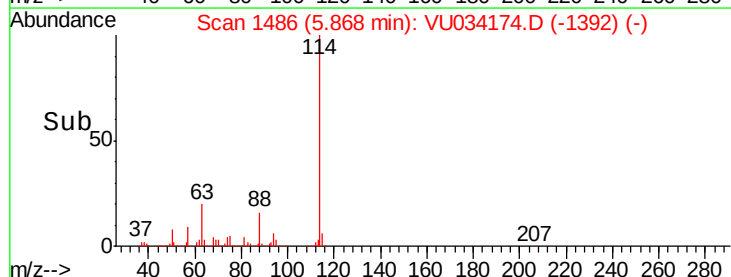
300000

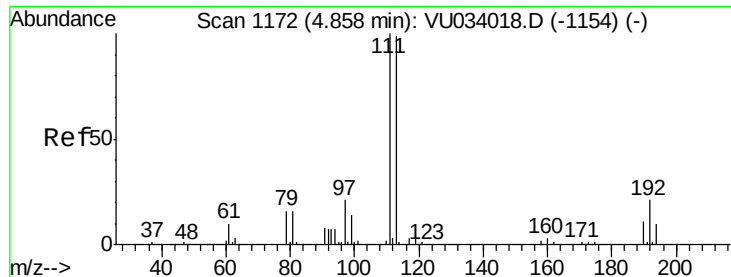
200000

100000

0

Time-->

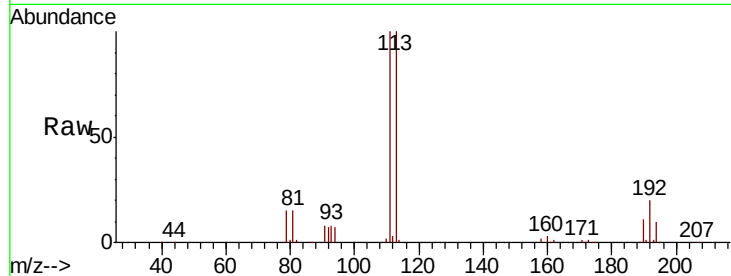




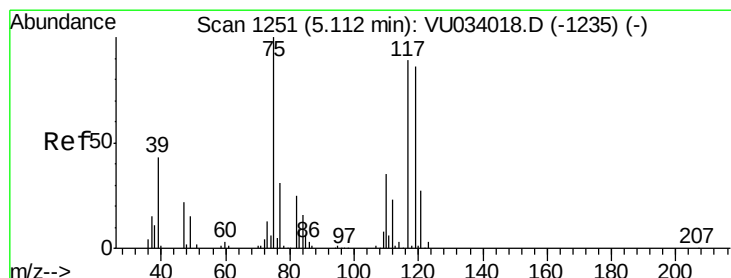
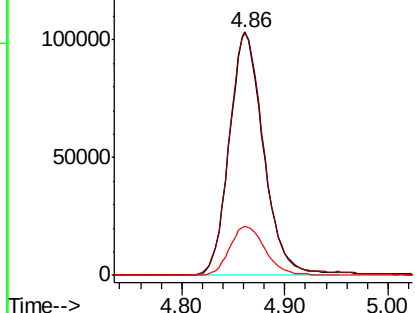
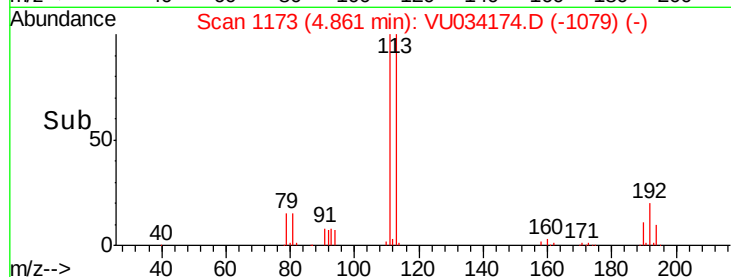
#35
 Dibromofluoromethane
 Concen: 48.503 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034174.D
 Acq: 01 Sep 2019 17:16

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.0	81.7	122.5
192	20.8	17.1	25.7

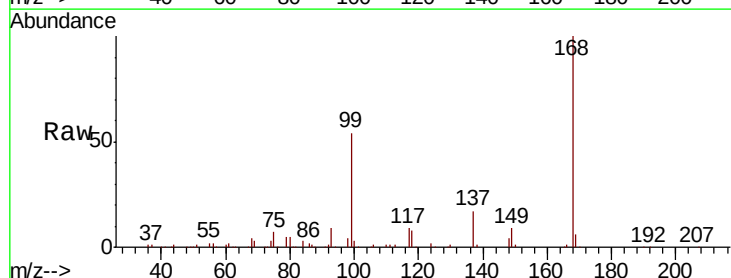


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

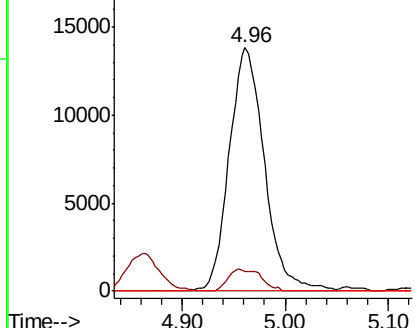
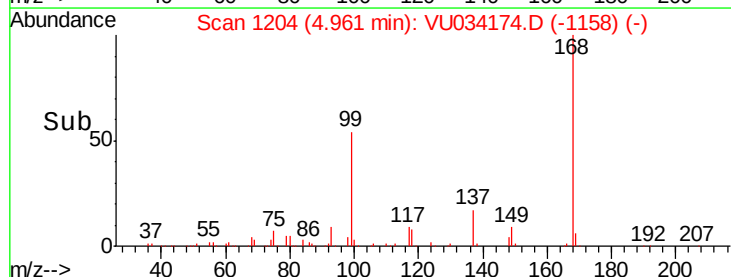


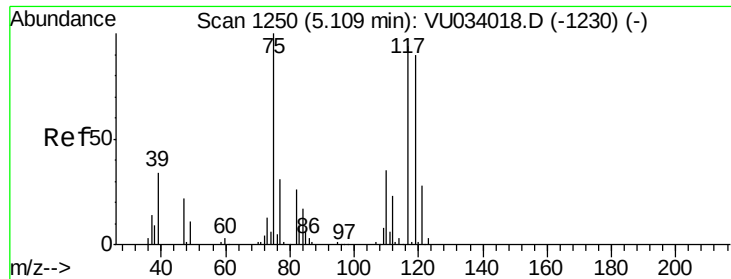
#36
 1,1-Dichloropropene
 Concen: 4.909 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034174.D
 Acq: 01 Sep 2019 17:16

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	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: 6.143 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.14 min

Lab File: VU034174.D

Acq: 01 Sep 2019 17:16

Instrument :

MSVOA_U

ClientSampled :

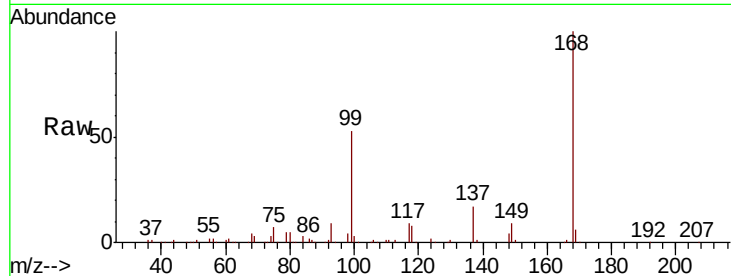
Tot Ion:117 Resp: 39766

Ion Ratio Lower Upper

117 100

119 5.6 77.0 115.4#

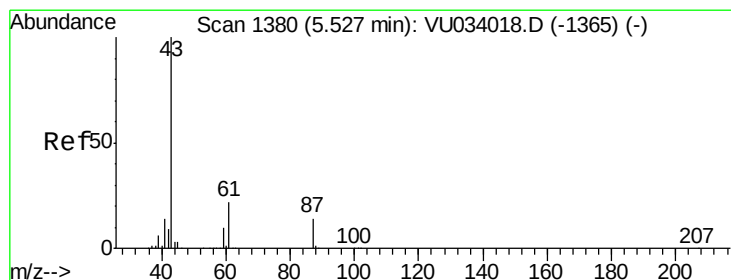
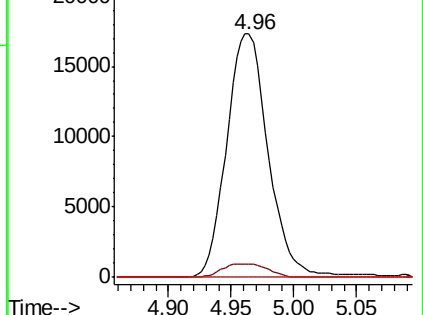
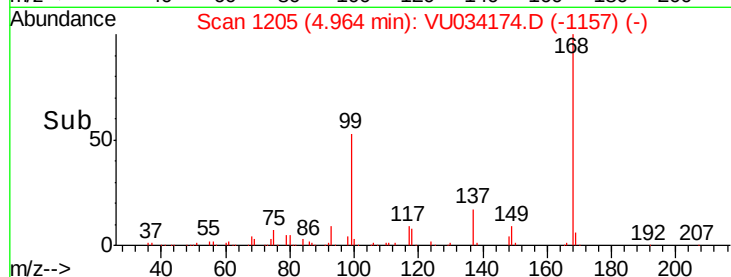
121 0.0 23.9 35.9#



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



#43

Isopropyl Acetate

Concen: 7.750 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034174.D

Acq: 01 Sep 2019 17:16

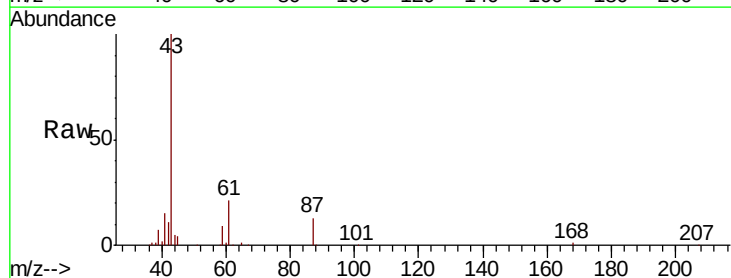
Tgt Ion: 43 Resp: 88540

Ion Ratio Lower Upper

43 100

61 20.6 17.2 25.8

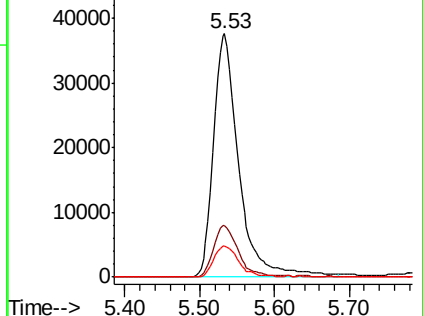
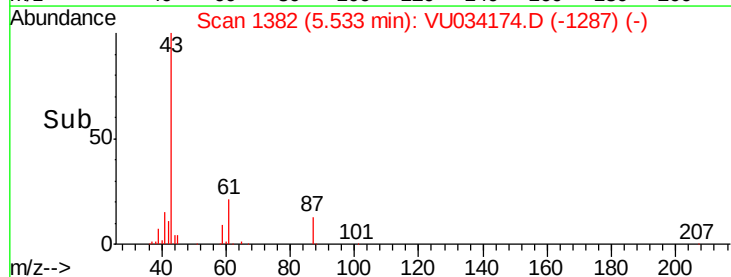
87 12.6 10.8 16.2

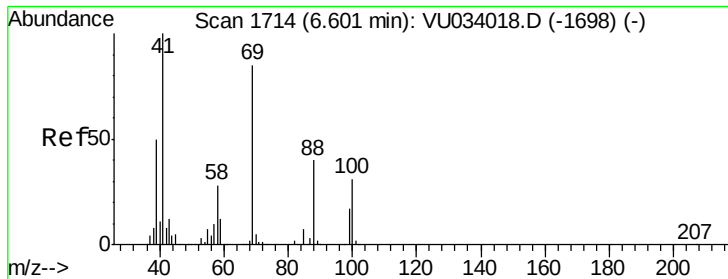


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

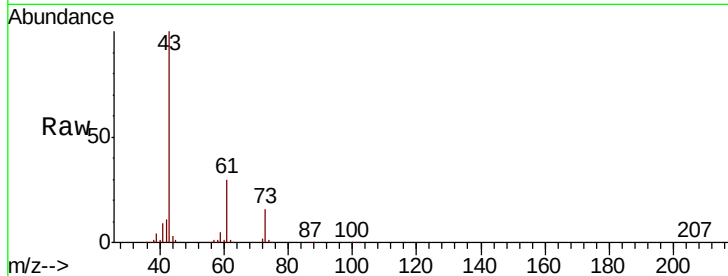




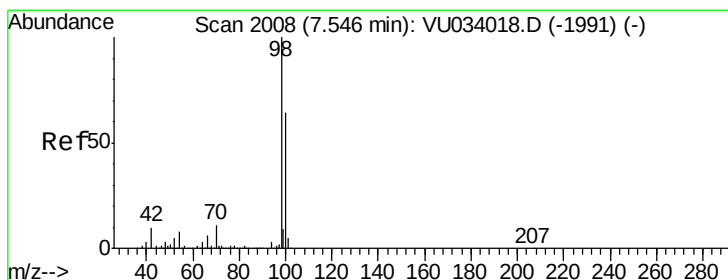
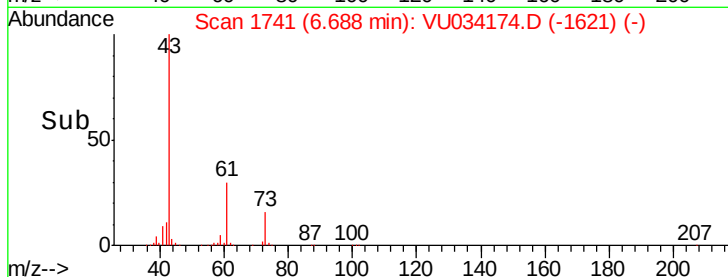
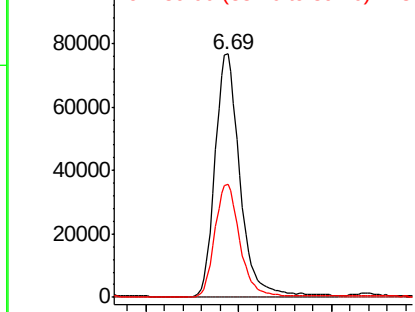
#48
Methvl methacrylate
Concen: 25.935 ug/l
RT: 6.69 min Scan# 1741
Delta R.T. 0.09 min
Lab File: VU034174.D
Acq: 01 Sep 2019 17:16

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 41 Resp: 142984
Ion Ratio Lower Upper
41 100
69 0.2 69.5 104.3#
39 46.8 40.3 60.5

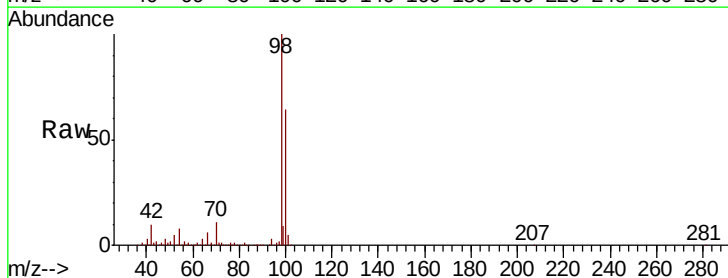


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

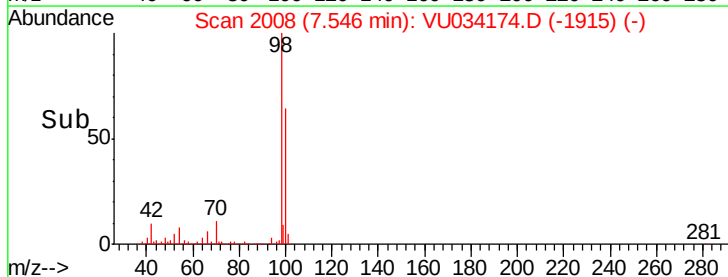
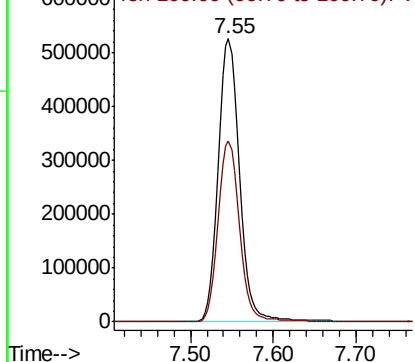


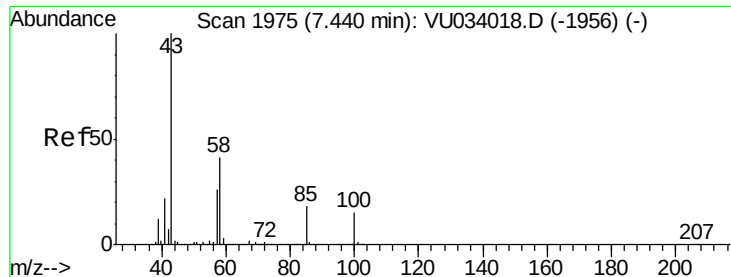
#50
Toluene-d8
Concen: 50.899 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034174.D
Acq: 01 Sep 2019 17:16

Tgt Ion: 98 Resp: 937214
Ion Ratio Lower Upper
98 100
100 64.3 50.3 75.5



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: 10.266 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034174.D

Acq: 01 Sep 2019 17:16

Instrument :

MSVOA_U

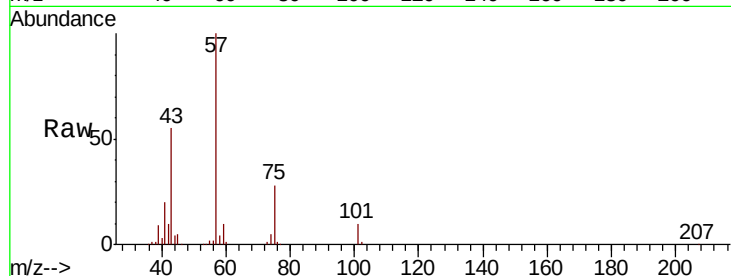
ClientSampleId :

Tot Ion: 43 Resp: 81004

Ion Ratio Lower Upper

43 100

58 6.3 32.2 48.4#

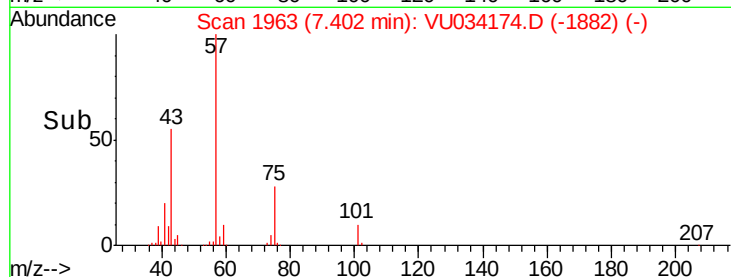


Abundance Ion 43.00 (42.70 to 43.70): VU034174.D (-1882) (-)

Ion 58.00 (57.70 to 58.70): VU034174.D (-1882) (-)

7.40

Time-->



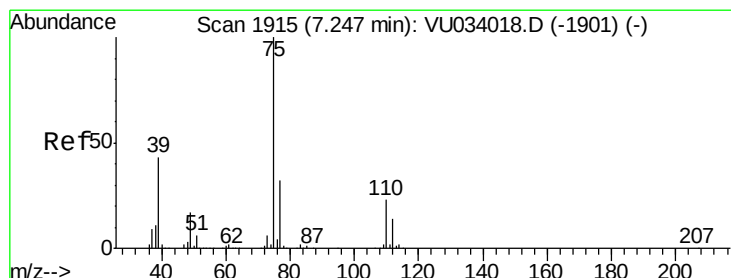
Abundance

Ion 43.00 (42.70 to 43.70): VU034174.D (-1882) (-)

Ion 58.00 (57.70 to 58.70): VU034174.D (-1882) (-)

7.40

Time-->



#54

cis-1,3-Dichloropropene

Concen: 4.539 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034174.D

Acq: 01 Sep 2019 17:16

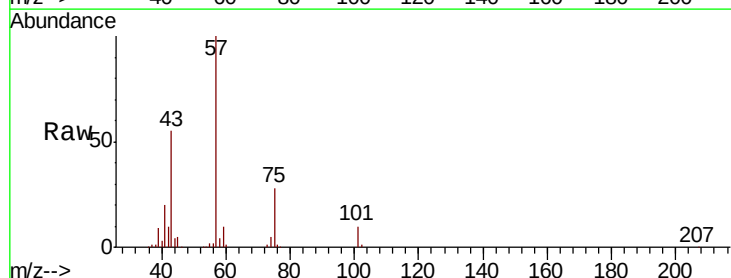
Tgt Ion: 75 Resp: 38735

Ion Ratio Lower Upper

75 100

77 0.7 25.2 37.8#

39 32.5 34.6 51.8#



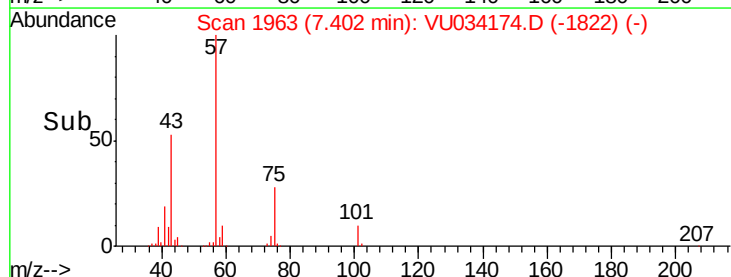
Abundance Ion 74.90 (74.60 to 75.60): VU034174.D (-1822) (-)

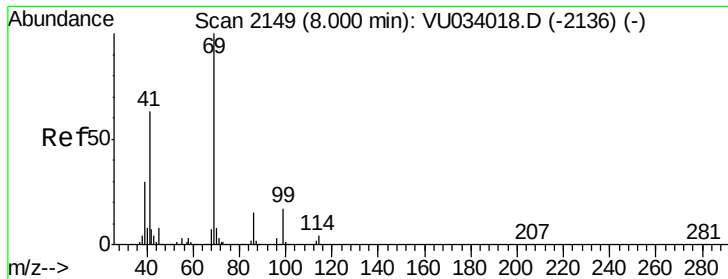
Ion 76.90 (76.60 to 77.60): VU034174.D (-1822) (-)

Ion 39.00 (38.70 to 39.70): VU034174.D (-1822) (-)

7.40

Time-->





#56

Ethyl methacrylate

Concen: 0.986 ug/l

RT: 7.96 min Scan# 2137

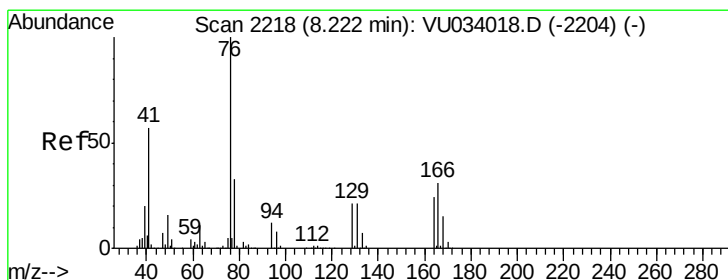
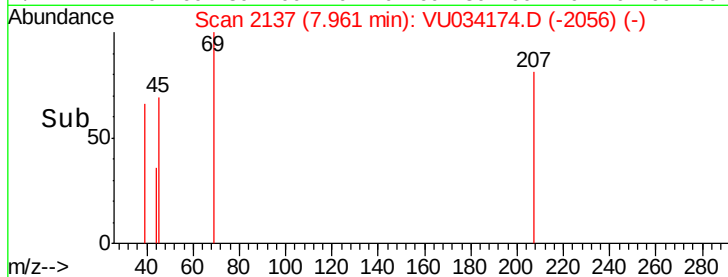
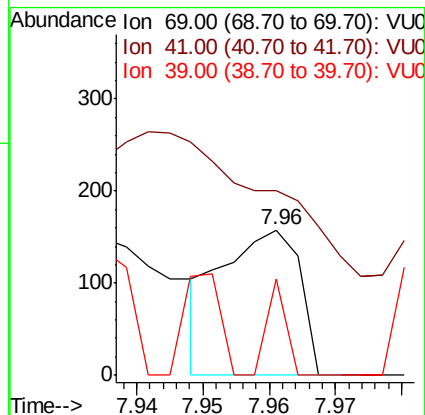
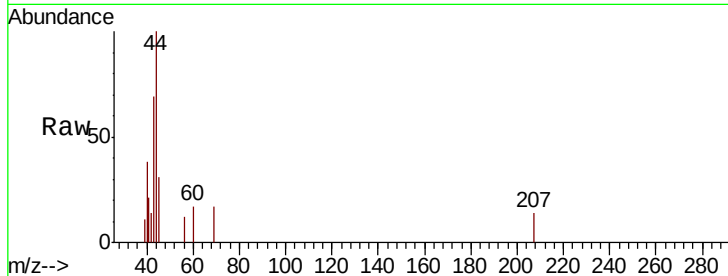
Delta R.T. -0.04 min

Lab File: VU034174.D

Acq: 01 Sep 2019 17:16

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 69 Resp: 129
Ion Ratio Lower Upper
69 100
41 0.0 50.7 76.1#
39 0.0 24.2 36.2#



#57

1,3-Dichloropropane

Concen: 0.734 ug/l

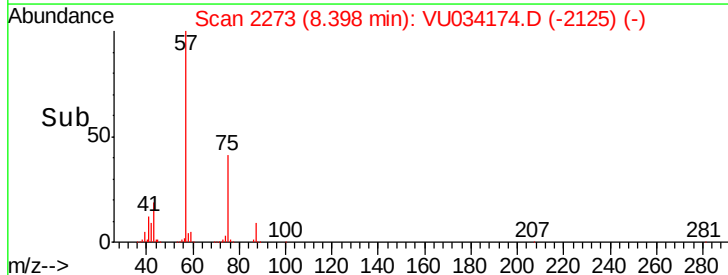
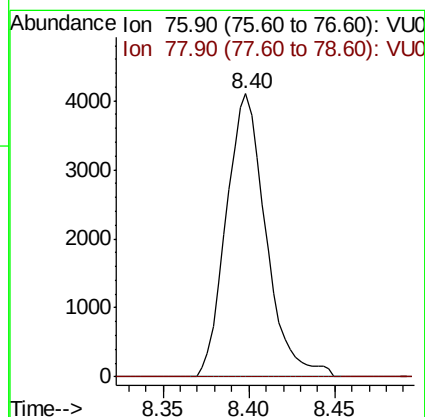
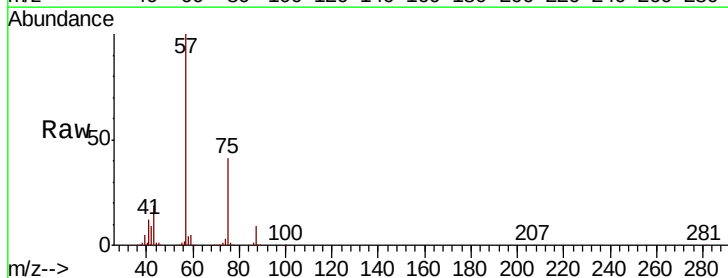
RT: 8.40 min Scan# 2273

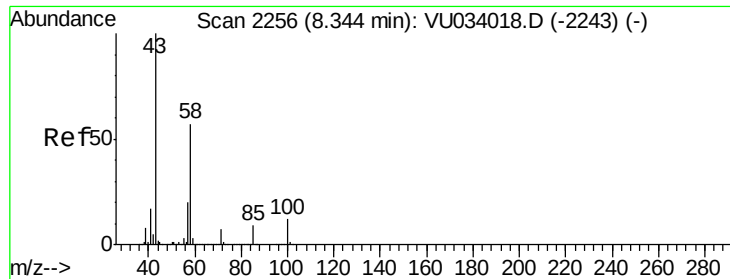
Delta R.T. 0.18 min

Lab File: VU034174.D

Acq: 01 Sep 2019 17:16

Tgt Ion: 76 Resp: 6592
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.4#

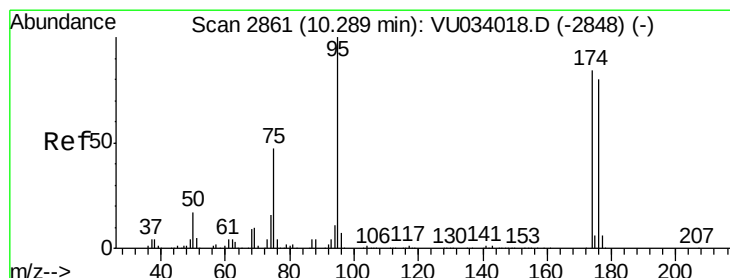
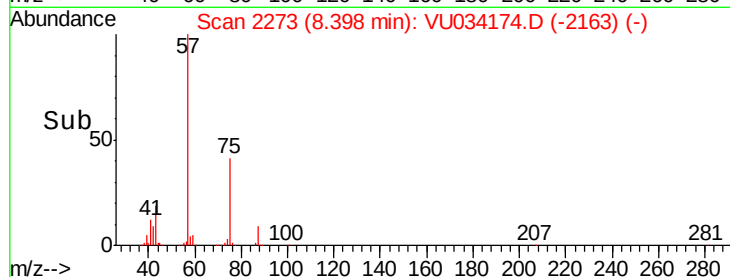
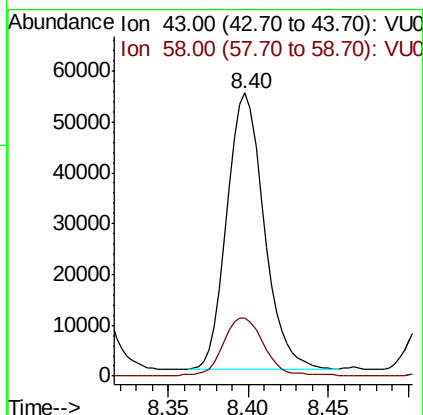
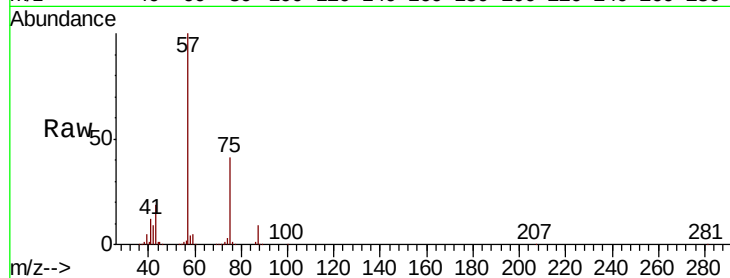




#59
2-Hexanone
Concen: 14.484 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034174.D
Acq: 01 Sep 2019 17:16

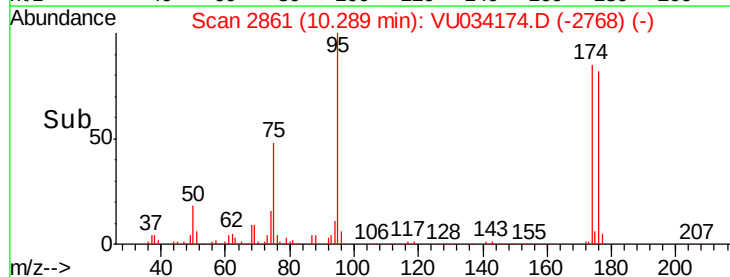
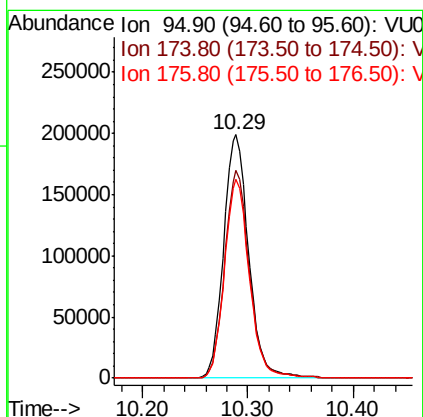
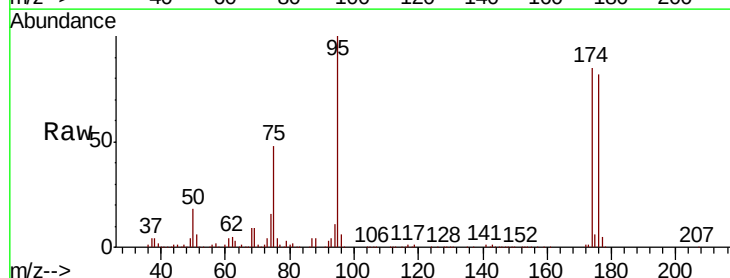
Instrument :
MSVOA_U
ClientSampleId :

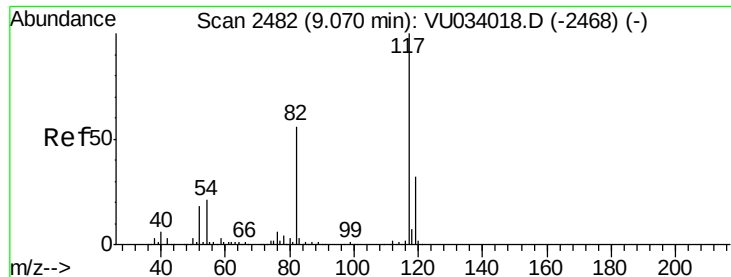
Tot Ion: 43 Resp: 86274
Ion Ratio Lower Upper
43 100
58 23.7 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 45.625 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.00 min
Lab File: VU034174.D
Acq: 01 Sep 2019 17:16

Tgt Ion: 95 Resp: 326793
Ion Ratio Lower Upper
95 100
174 85.2 0.0 168.8
176 81.0 0.0 161.8

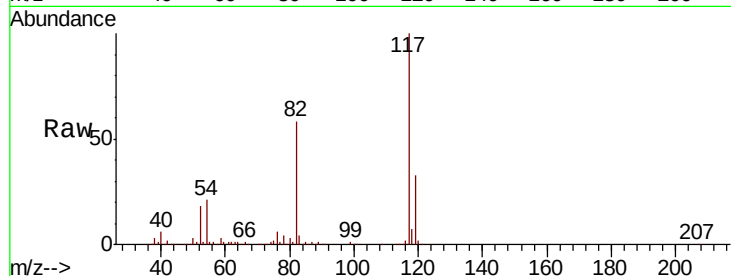




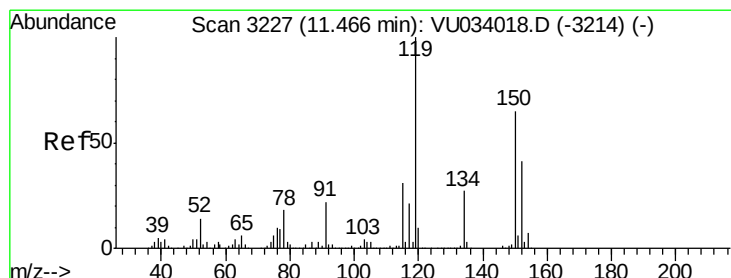
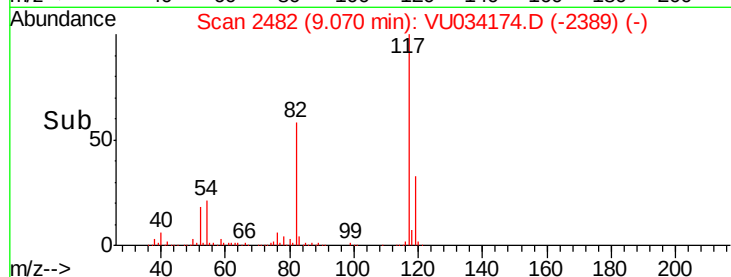
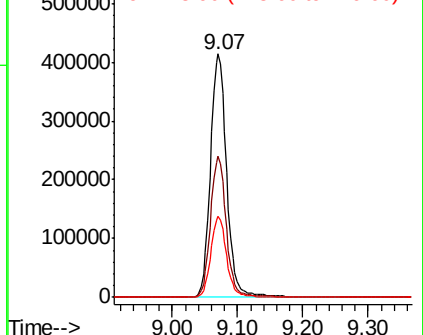
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034174.D
Acq: 01 Sep 2019 17:16

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.8	45.1	67.7
119	33.2	25.4	38.0

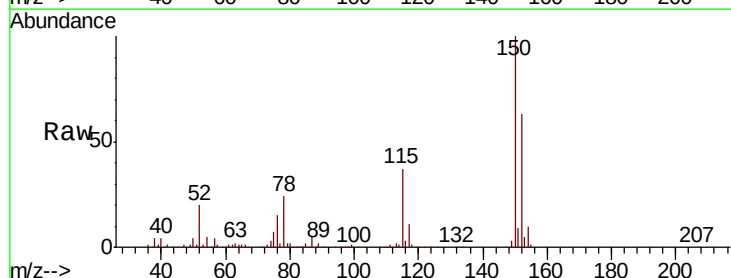


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

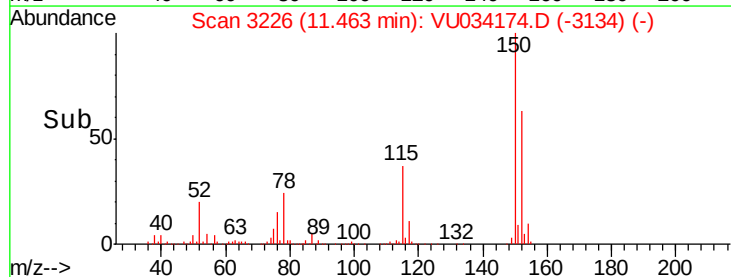
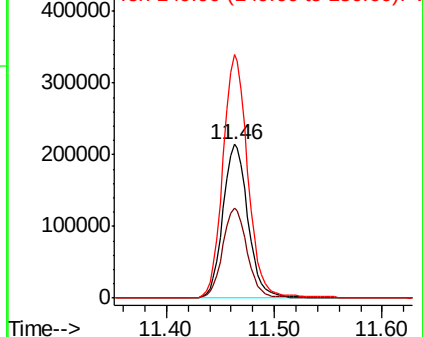


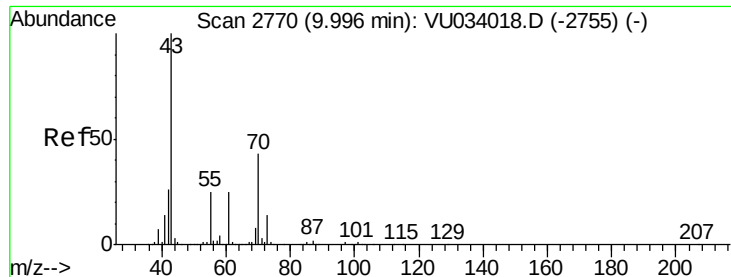
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034174.D
Acq: 01 Sep 2019 17:16

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.7	41.1	123.3
150	157.6	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

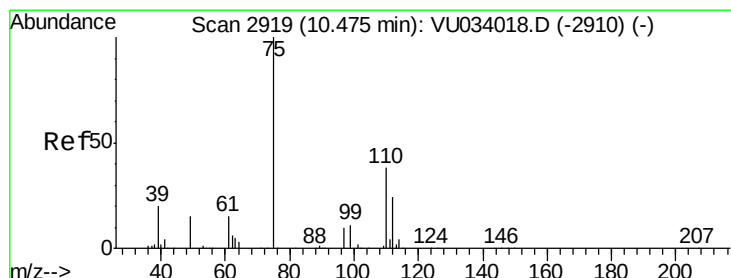
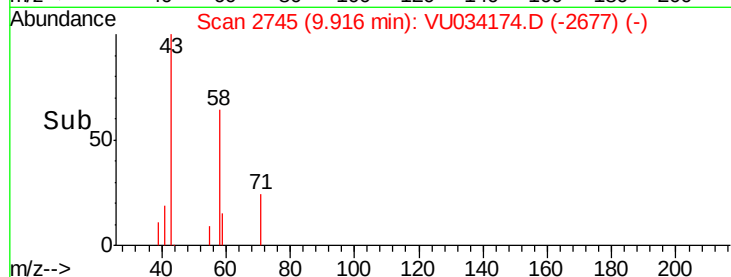
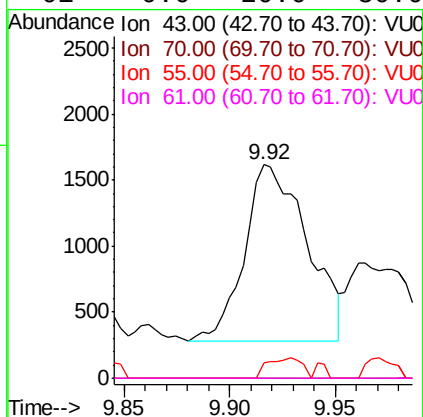
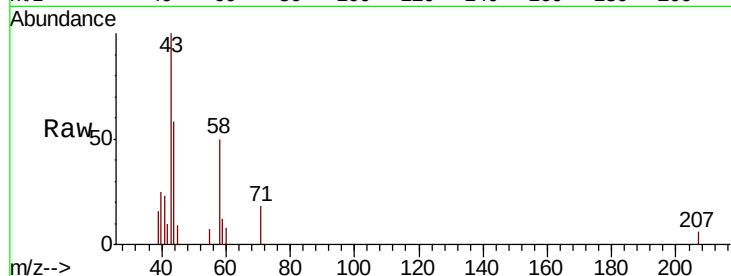




#74
N-amvl acetate
Concen: 0.282 ug/l
RT: 9.92 min Scan# 2745
Delta R.T. -0.08 min
Lab File: VU034174.D
Acq: 01 Sep 2019 17:16

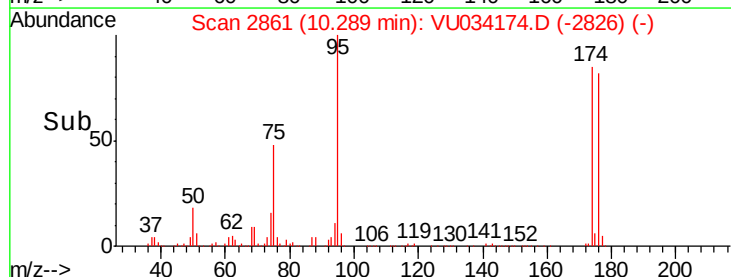
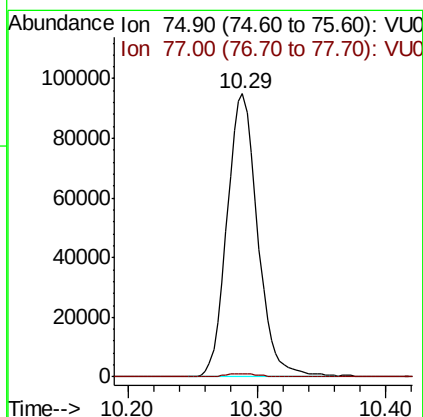
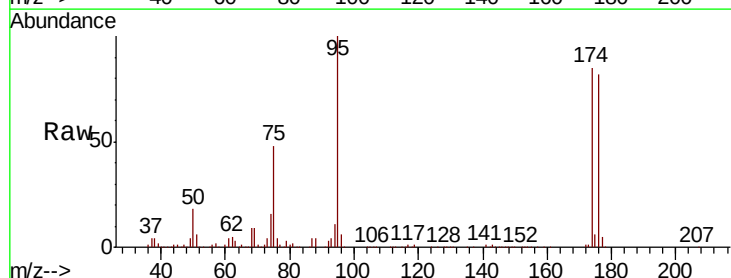
Instrument :
MSVOA_U
ClientSampleId :

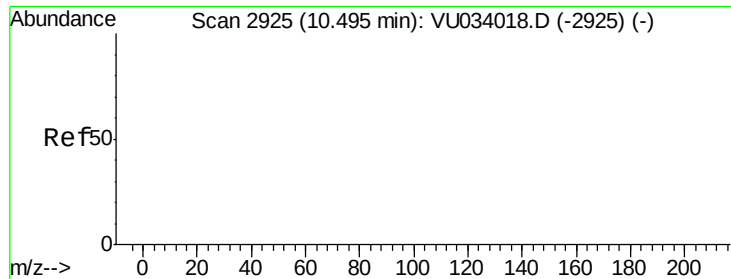
Tot Ion: 43 Resp: 2767
Ion Ratio Lower Upper
43 100
70 0.0 35.2 52.8#
55 6.4 20.5 30.7#
61 0.0 20.0 30.0#



#76
1,2,3-Trichloropropane
Concen: 20.013 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.19 min
Lab File: VU034174.D
Acq: 01 Sep 2019 17:16

Tgt Ion: 75 Resp: 156722
Ion Ratio Lower Upper
75 100
77 1.3 20.1 60.2#

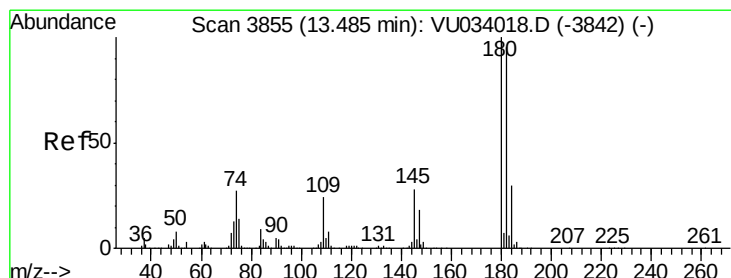
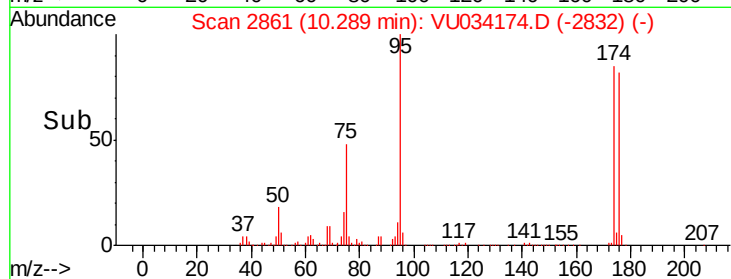
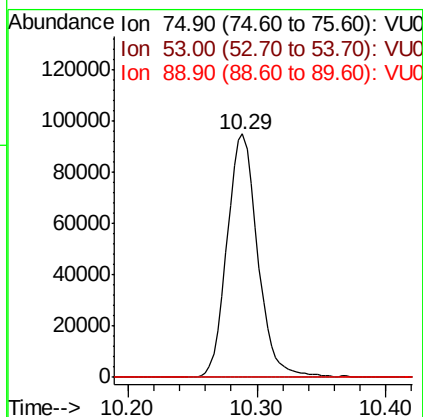
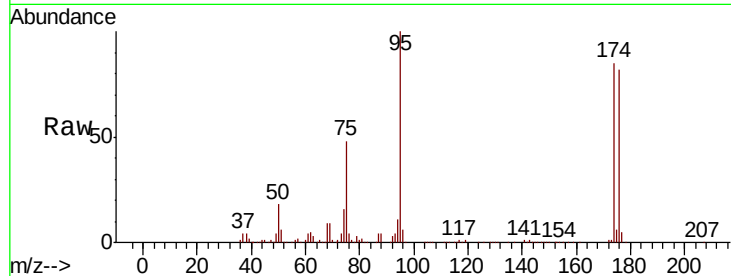




#81
trans-1,4-Dichloro-2-butene
Concen: 67.388 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.21 min
Lab File: VU034174.D
Acq: 01 Sep 2019 17:16

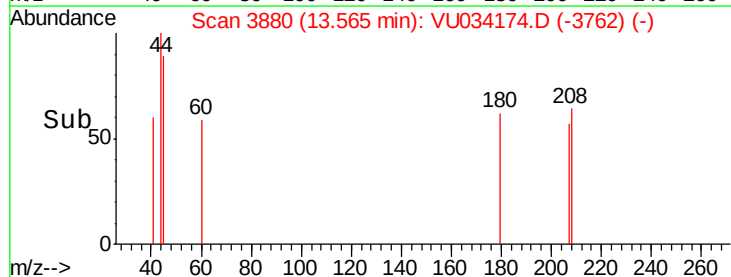
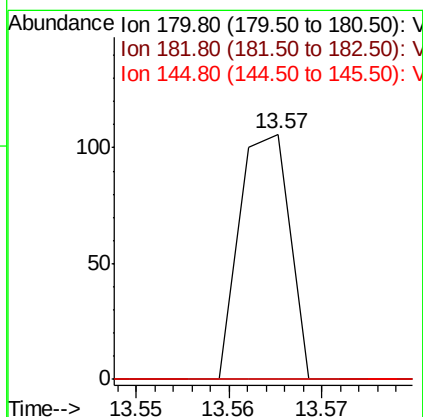
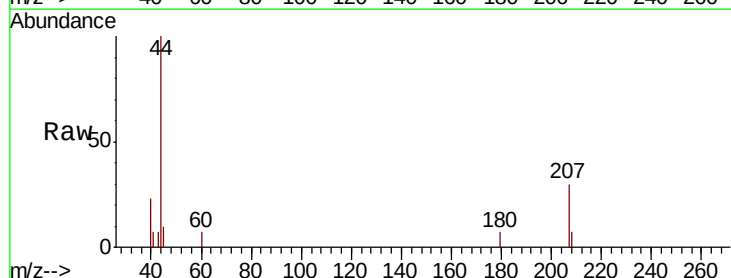
Instrument :
MSVOA_U
ClientSampleId :

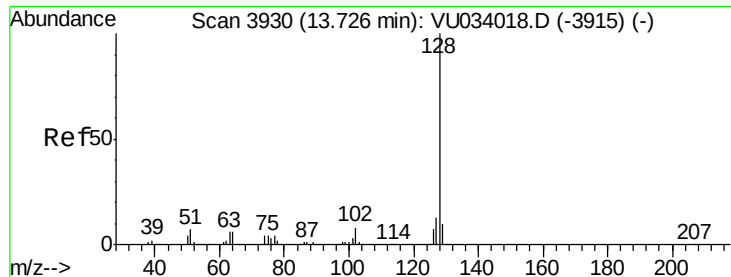
Tot Ion: 75 Resp: 156722
Ion Ratio Lower Upper
75 100
53 0.2 0.0 0.0#
89 0.0 0.0 0.0



#93
1,2,4-Trichlorobenzene
Concen: 1.119 ug/l
RT: 13.57 min Scan# 3880
Delta R.T. 0.08 min
Lab File: VU034174.D
Acq: 01 Sep 2019 17:16

Tgt Ion:180 Resp: 40
Ion Ratio Lower Upper
180 100
182 0.0 47.4 142.2#
145 0.0 14.1 42.3#





#95

Napthalene

Concen: 1.796 ug/l

RT: 13.79 min Scan# 3950

Delta R.T. 0.06 min

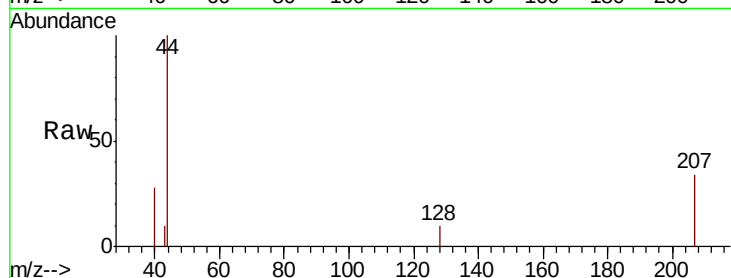
Lab File: VU034174.D

Acq: 01 Sep 2019 17:16

Instrument :

MSVOA_U

ClientSampleId :



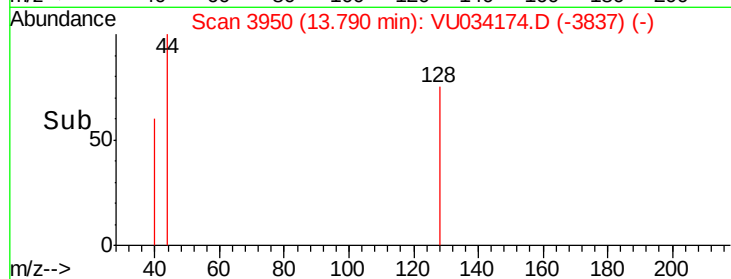
Tot Ion:128 Resp: 138

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 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

