

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090319\
 Data File : VU034194.D
 Acq On : 02 Sep 2019 12:06
 Operator : JC/SP
 Sample : K4544-27
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-B2-(2.25)

Quant Time: Sep 03 05:53:09 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	441660	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	715958	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	713943	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	341872	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	282942	50.00	ug/l	0.00
Spiked Amount			Recovery	=	100.00%	
35) Dibromofluoromethane	4.86	113	236394	47.60	ug/l	0.00
Spiked Amount			Recovery	=	95.20%	
50) Toluene-d8	7.55	98	935405	50.31	ug/l	0.00
Spiked Amount			Recovery	=	100.62%	
62) 4-Bromofluorobenzene	10.29	95	325930	45.06	ug/l	0.00
Spiked Amount			Recovery	=	90.12%	

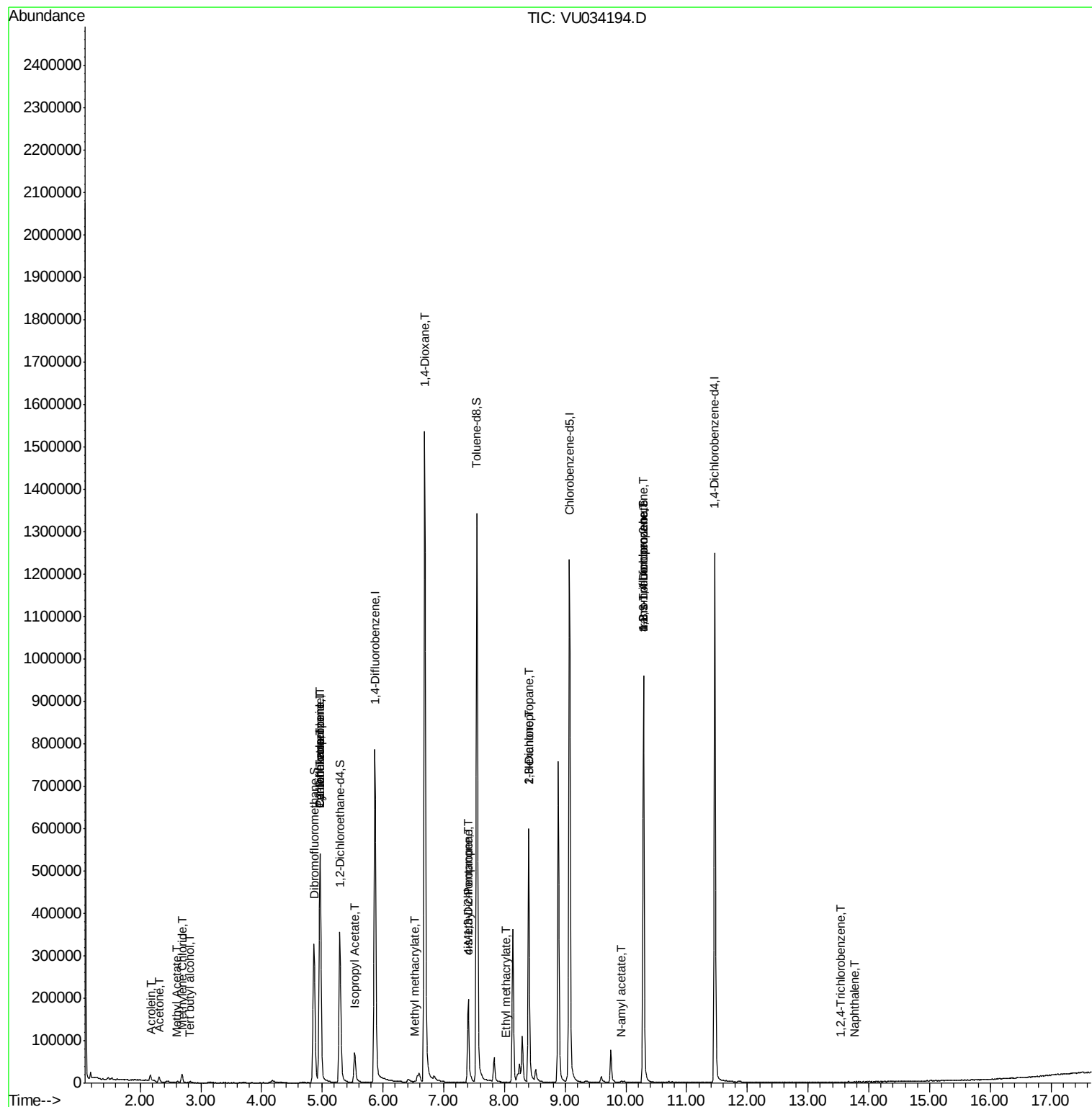
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	634	Below Cal		99
5) Bromomethane	1.64	94	875	Below Cal		91
11) Tert butyl alcohol	2.82	59	2354	1.804	ug/l #	73
13) Acrolein	2.19	56	248	0.452	ug/l #	71
16) Acetone	2.31	43	14387	4.982	ug/l	99
18) Methyl Acetate	2.61	43	4109	0.551	ug/l #	87
20) Methylene Chloride	2.69	84	9361	1.712	ug/l	97
31) Cyclohexane	4.96	56	7665	0.907	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	30970	4.573	ug/l #	49
38) Carbon Tetrachloride	4.96	117	39938	6.110	ug/l #	16
43) Isopropyl Acetate	5.53	43	85391	7.401	ug/l	99
48) Methyl methacrylate	6.52	41	5529	0.993	ug/l #	14
49) 1,4-Dioxane	6.69	88	179	1.283	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	78268	9.823	ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	36800	4.270	ug/l #	63
56) Ethyl methacrylate	8.03	69	137	0.987	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	5971	0.659	ug/l #	42
59) 2-Hexanone	8.40	43	83917	13.952	ug/l #	54
74) N-amyl acetate	9.93	43	2231	0.231	ug/l #	46
76) 1,2,3-Trichloropropane	10.29	75	153952	19.980	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	153952	67.278	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.53	180	93	1.126	ug/l #	12
95) Naphthalene	13.76	128	218	1.800	ug/l #	80

(#) = 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: VU034194.D

Acq: 02 Sep 2019 12:06

Instrument :

MSVOA_U

ClientSampleId :

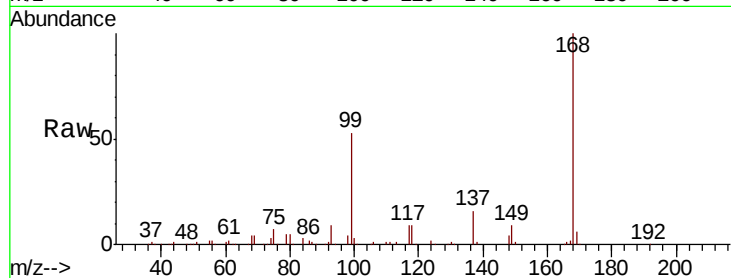
T16-17-B2-(2.25)

Tgt Ion:168 Resp: 441660

Ion Ratio Lower Upper

168 100

99 52.6 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034194.D (-1110) (-)

Ion 98.90 (98.60 to 99.60): VU034194.D (-1110) (-)

4.96

200000

150000

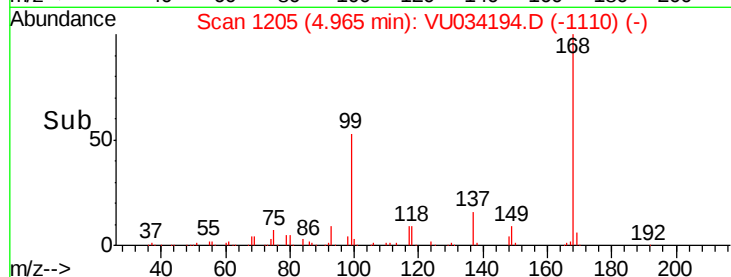
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034194.D

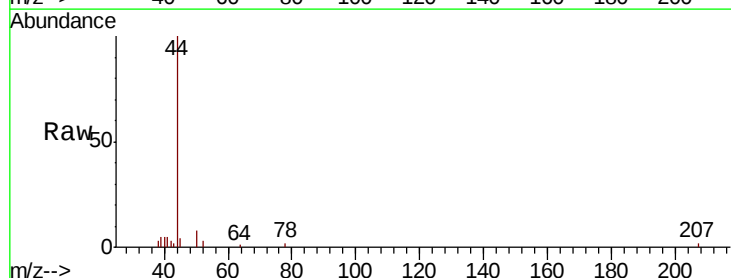
Acq: 02 Sep 2019 12:06

Tgt Ion: 50 Resp: 634

Ion Ratio Lower Upper

50 100

52 33.6 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034194.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VU034194.D (-1) (-)

1.33

600

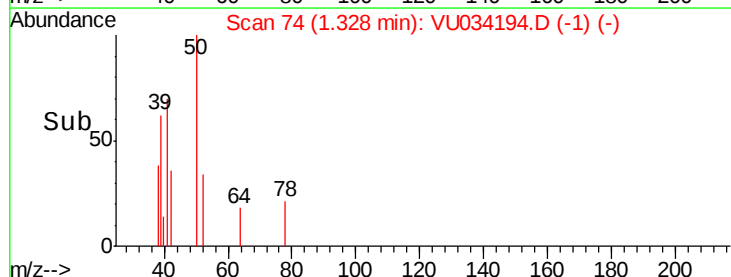
400

200

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 171

Delta R.T. 0.04 min

Lab File: VU034194.D

Acq: 02 Sep 2019 12:06

Instrument :

MSVOA_U

ClientSampleId :

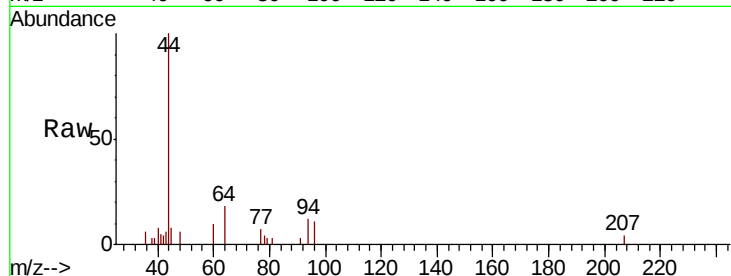
T16-17-B2-(2.25)

Tgt Ion: 94 Resp: 875

Ion Ratio Lower Upper

94 100

96 87.0 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU034194.D (-143) (-)

Ion 95.90 (95.60 to 96.60): VU034194.D (-143) (-)

1.64

1.64

1.64

1.64

1.64

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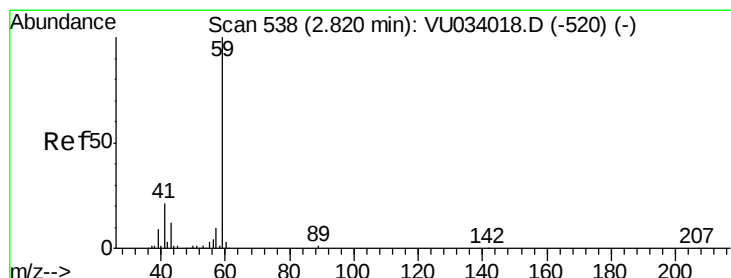
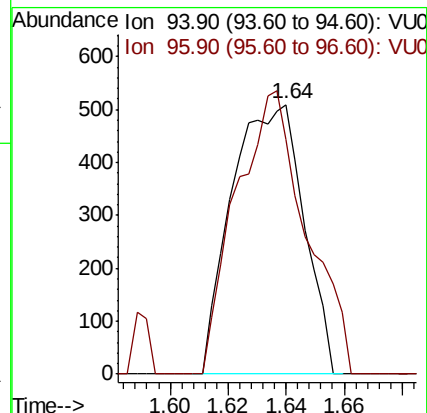
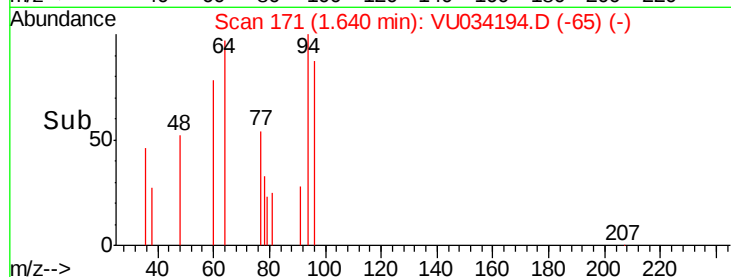
1.64

1.64

1.64

1.64

1.64



#11

Tert butyl alcohol

Concen: 1.804 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034194.D

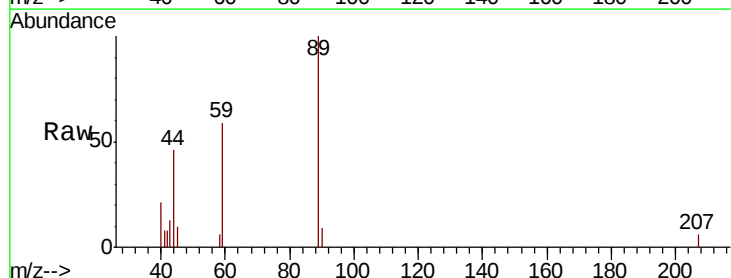
Acq: 02 Sep 2019 12:06

Tgt Ion: 59 Resp: 2354

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034194.D (-445) (-)

Ion 57.00 (56.70 to 57.70): VU034194.D (-445) (-)

2.82

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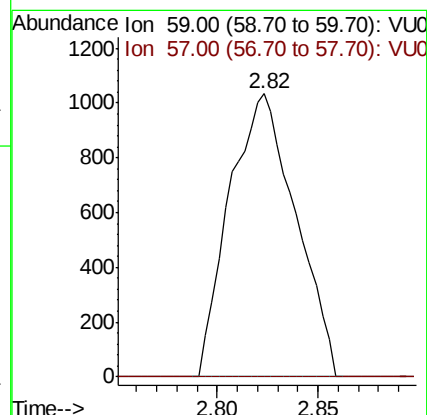
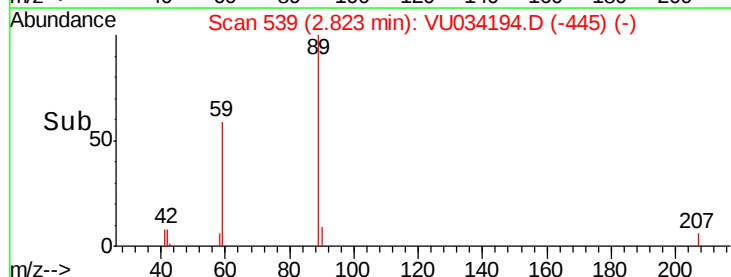
2.82

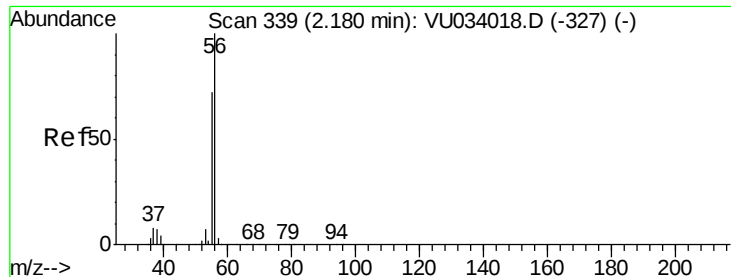
2.82

2.82

2.82

2.82





#13

Acrolein

Concen: 0.452 ug/l

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

Lab File: VU034194.D

Acq: 02 Sep 2019 12:06

Instrument :

MSVOA_U

ClientSampleId :

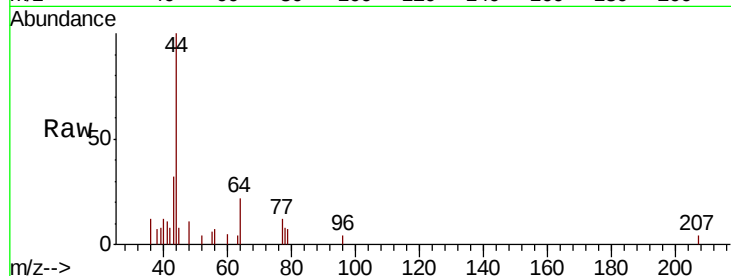
T16-17-B2-(2.25)

Tgt Ion: 56 Resp: 248

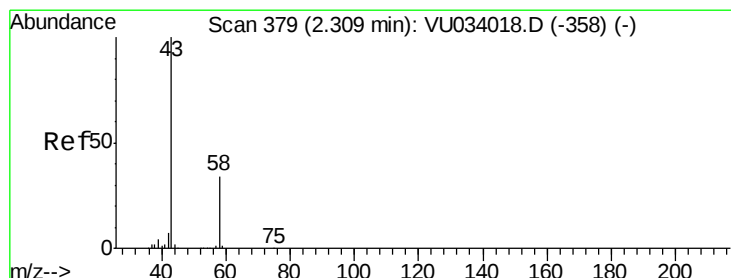
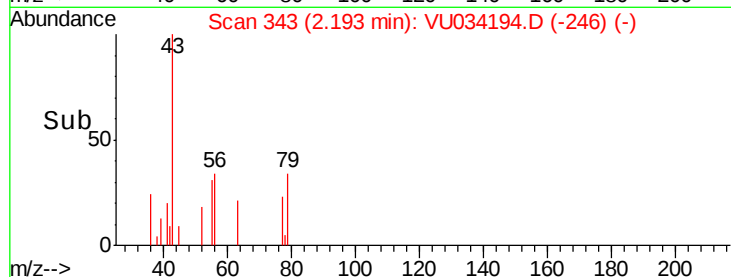
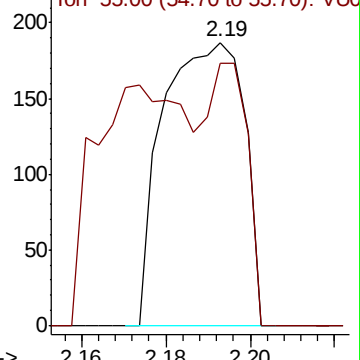
Ion Ratio Lower Upper

56 100

55 47.6 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU034194.D (-327) (-)



#16

Acetone

Concen: 4.982 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034194.D

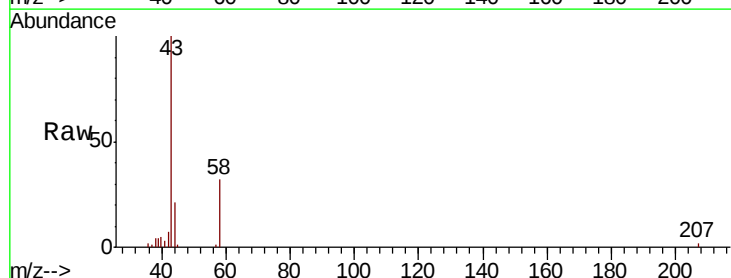
Acq: 02 Sep 2019 12:06

Tgt Ion: 43 Resp: 14387

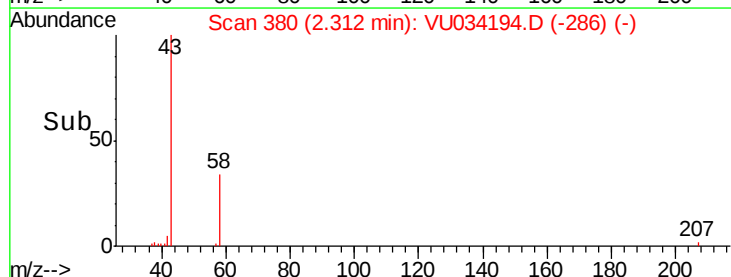
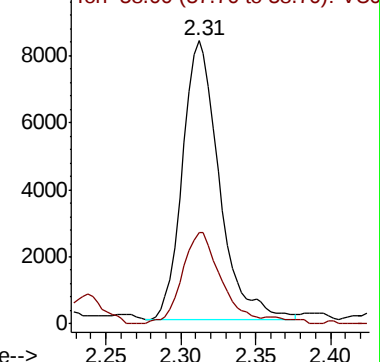
Ion Ratio Lower Upper

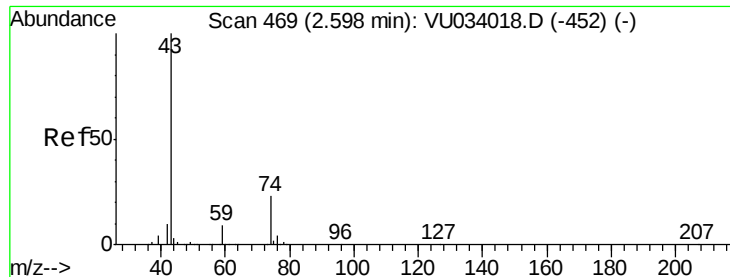
43 100

58 32.7 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034194.D (-286) (-)

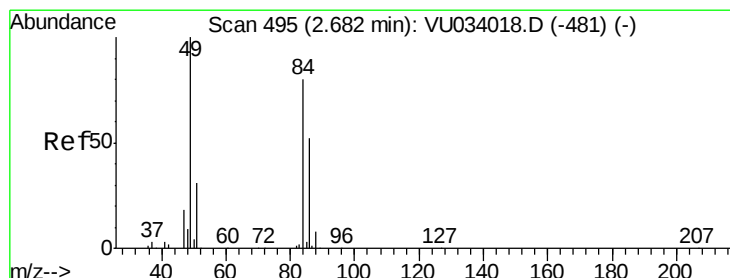
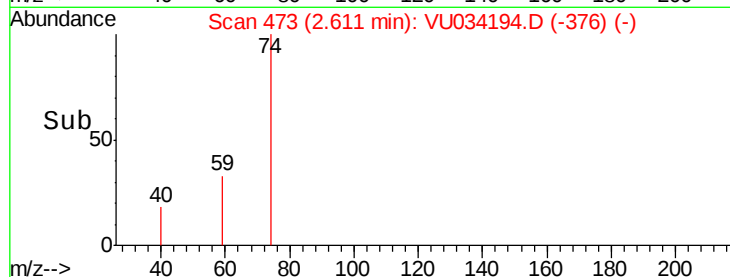
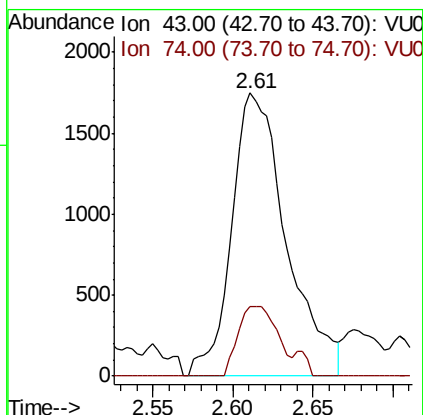
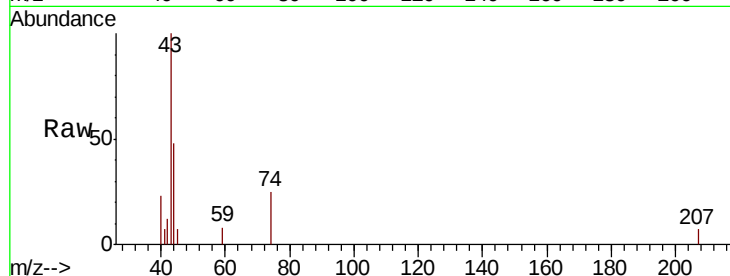




#18
Methyl Acetate
Concen: 0.551 ug/l
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU034194.D
Acq: 02 Sep 2019 12:06

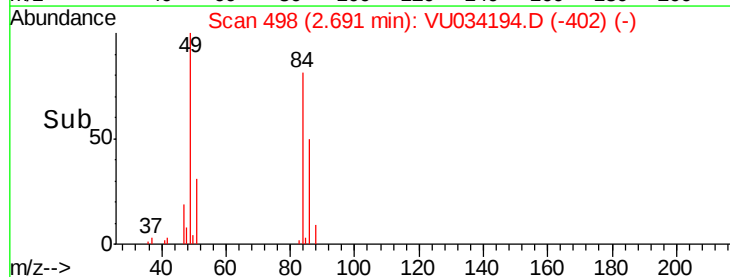
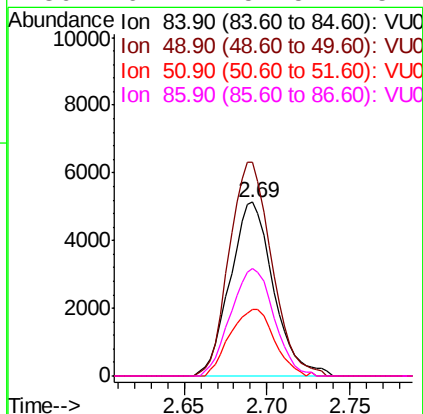
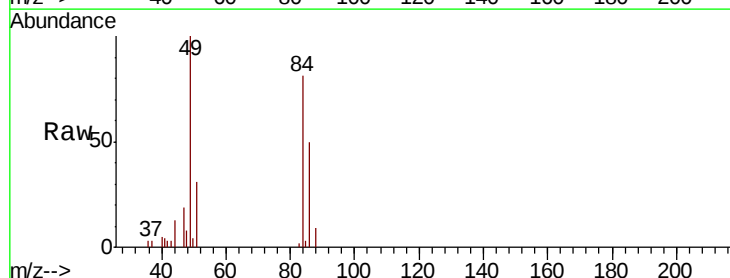
Instrument :
MSVOA_U
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T16-17-B2-(2.25)

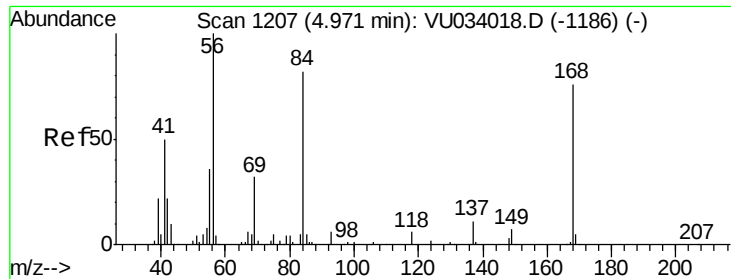
Tgt Ion: 43 Resp: 4109
Ion Ratio Lower Upper
43 100
74 17.6 19.2 28.8#



#20
Methylene Chloride
Concen: 1.712 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034194.D
Acq: 02 Sep 2019 12:06

Tgt Ion: 84 Resp: 9361
Ion Ratio Lower Upper
84 100
49 122.8 100.2 150.4
51 38.1 30.8 46.2
86 61.7 52.5 78.7

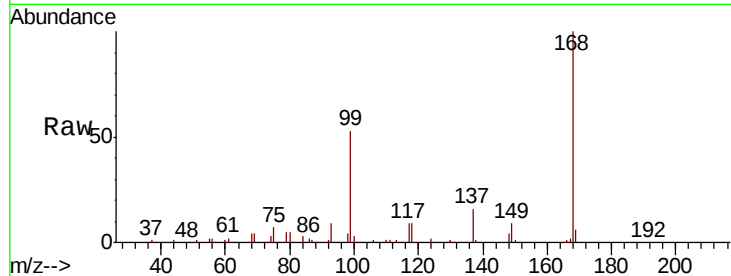




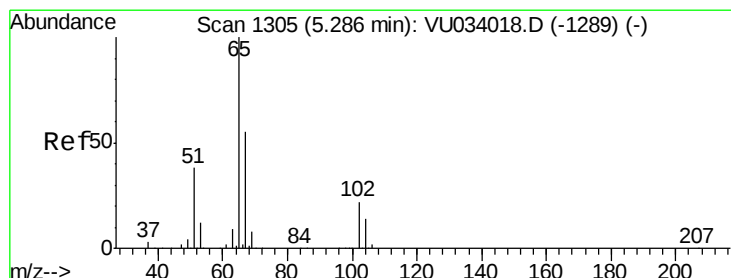
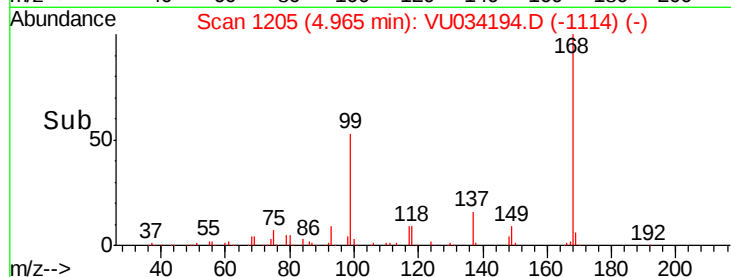
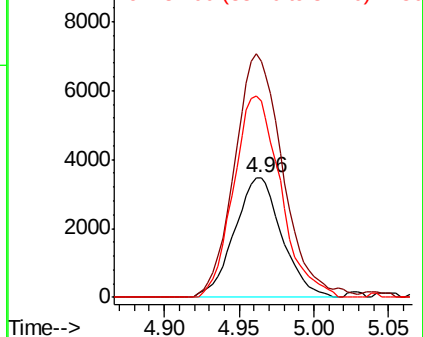
#31
Cyclohexane
Concen: 0.907 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VU034194.D
Acq: 02 Sep 2019 12:06

Instrument :
MSVOA_U
ClientSampleId :
T16-17-B2-(2.25)

Tgt Ion	Ratio	Lower	Upper
56	100		
69	197.6	25.4	38.0#
84	164.3	65.8	98.8#

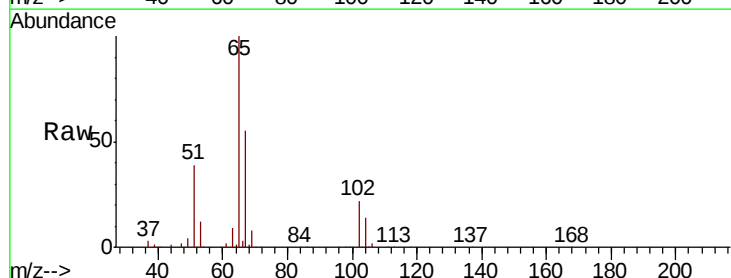


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

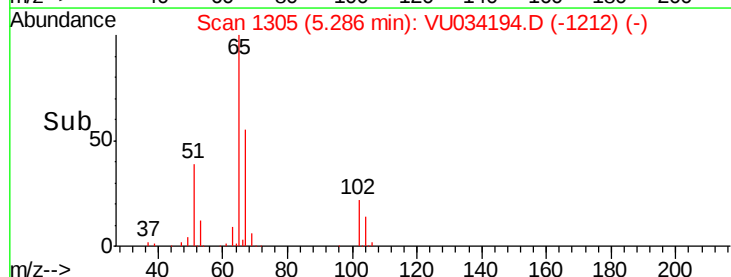
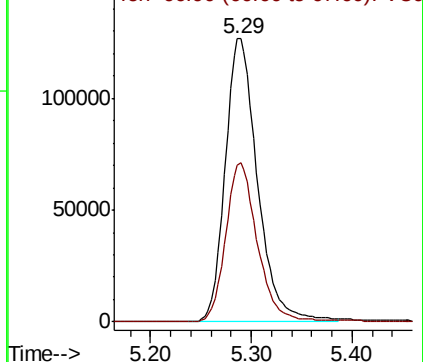


#33
1,2-Dichloroethane-d4
Concen: 49.997 ug/l
RT: 5.29 min Scan# 1305
Delta R.T. 0.00 min
Lab File: VU034194.D
Acq: 02 Sep 2019 12:06

Tgt Ion	Ratio	Lower	Upper
65	100		
67	55.3	0.0	110.6



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

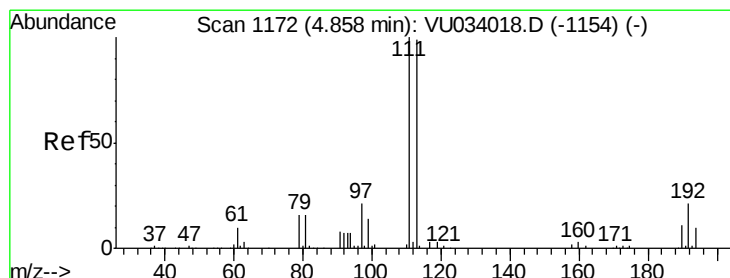
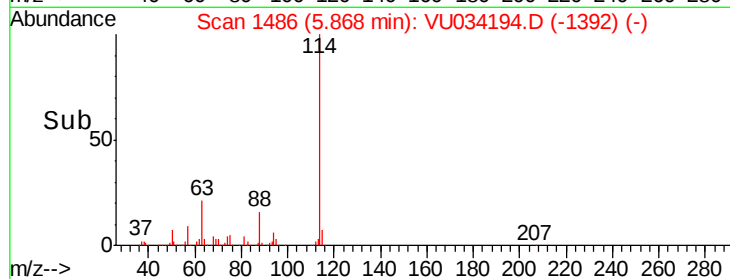
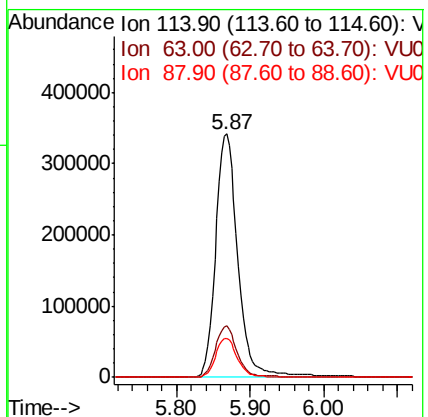
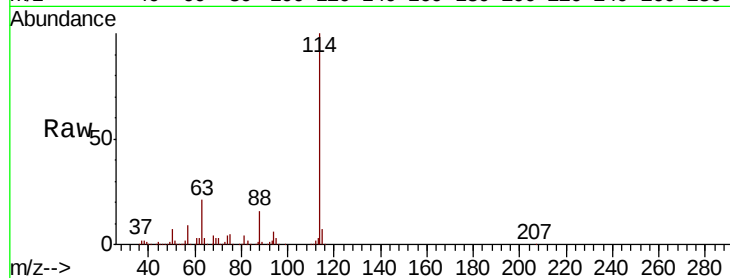




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.87 min Scan# 1486
Delta R.T. 0.00 min
Lab File: VU034194.D
Acq: 02 Sep 2019 12:06

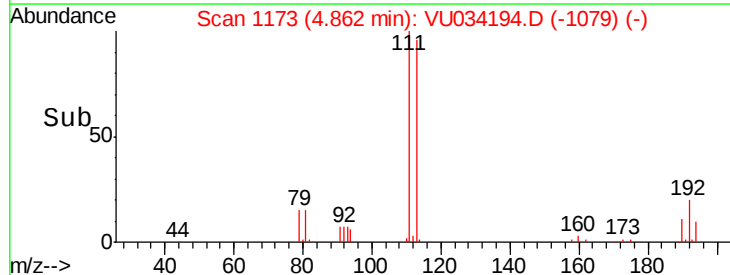
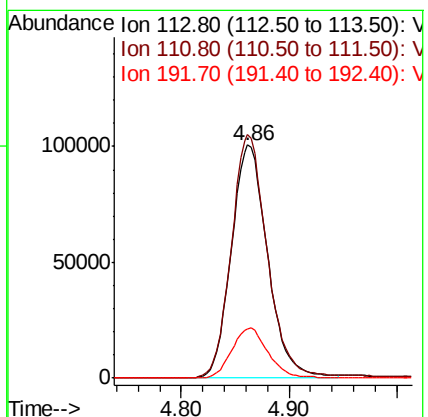
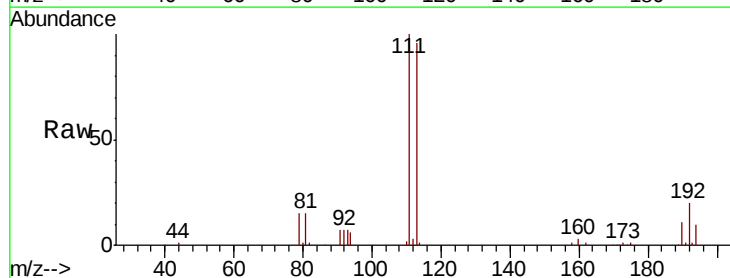
Instrument :
MSVOA_U
ClientSampleId :
T16-17-B2-(2.25)

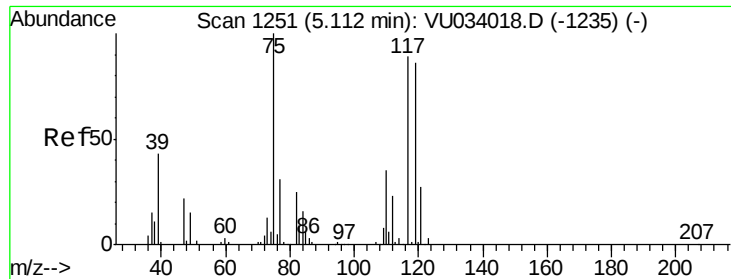
Tgt Ion:114 Resp: 715958
Ion Ratio Lower Upper
114 100
63 21.1 0.0 42.0
88 16.1 0.0 32.0



#35
Dibromofluoromethane
Concen: 47.604 ug/l
RT: 4.86 min Scan# 1173
Delta R.T. 0.00 min
Lab File: VU034194.D
Acq: 02 Sep 2019 12:06

Tgt Ion:113 Resp: 236394
Ion Ratio Lower Upper
113 100
111 102.8 81.7 122.5
192 21.7 17.1 25.7





#36

1,1-Dichloropropene

Concen: 4.573 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034194.D

Acq: 02 Sep 2019 12:06

Instrument :

MSVOA_U

ClientSampleId :

T16-17-B2-(2.25)

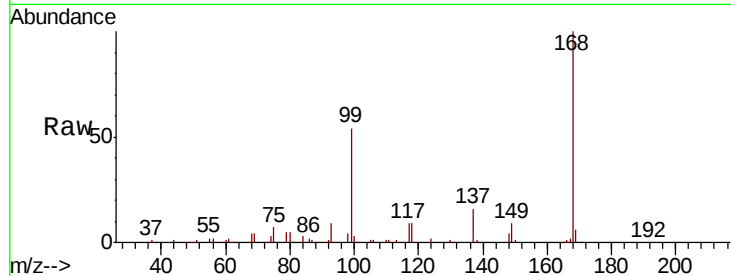
Tgt Ion: 75 Resp: 30970

Ion Ratio Lower Upper

75 100

110 8.2 17.8 53.5#

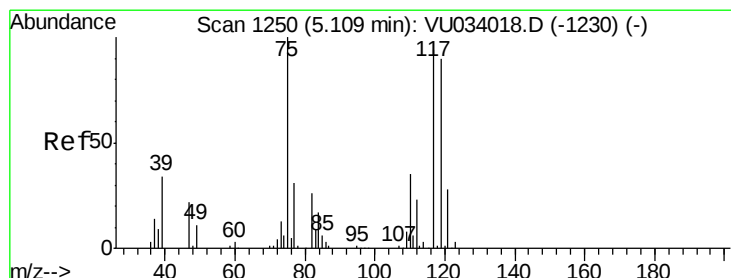
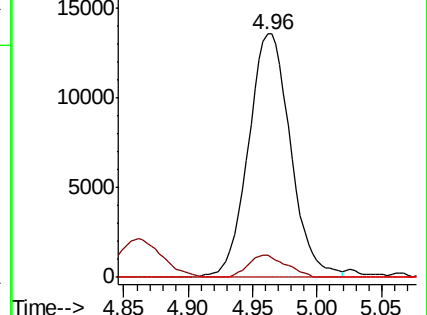
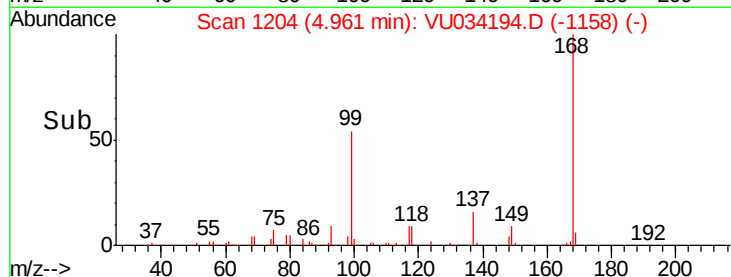
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VU034194.D (-1158) (-)

Ion 109.90 (109.60 to 110.60): VU034194.D (-1158) (-)

Ion 76.90 (76.60 to 77.60): VU034194.D (-1158) (-)



#38

Carbon Tetrachloride

Concen: 6.110 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034194.D

Acq: 02 Sep 2019 12:06

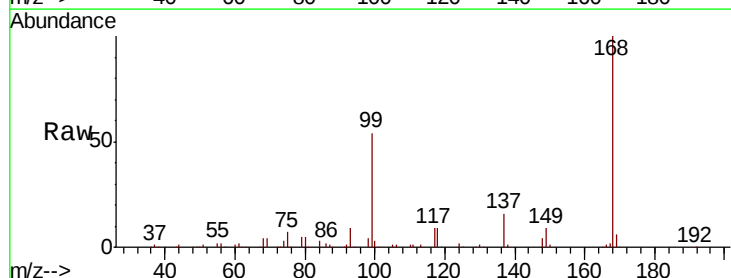
Tgt Ion: 117 Resp: 39938

Ion Ratio Lower Upper

117 100

119 4.9 77.0 115.4#

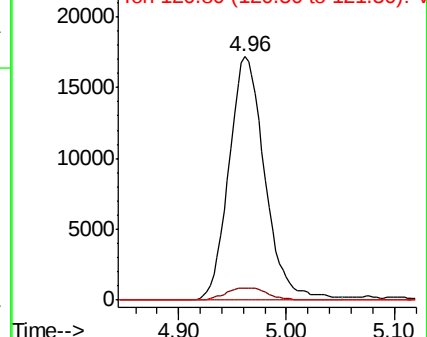
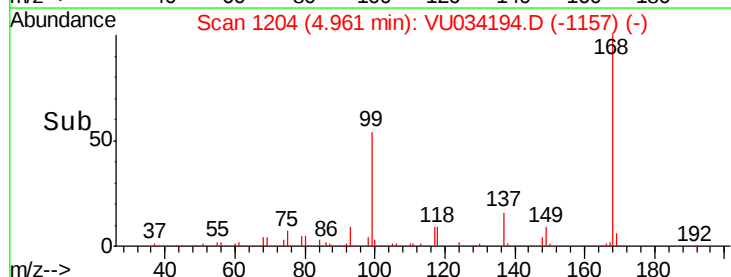
121 0.0 23.9 35.9#

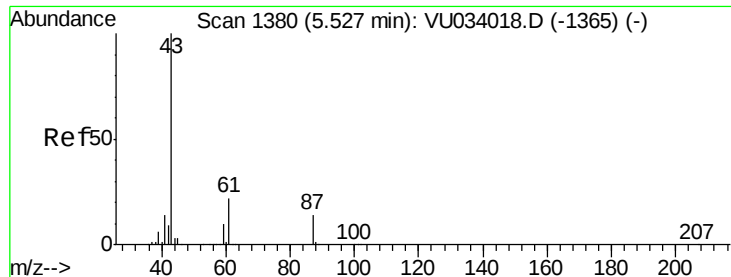


Abundance Ion 116.80 (116.50 to 117.50): VU034194.D (-1157) (-)

Ion 118.80 (118.50 to 119.50): VU034194.D (-1157) (-)

Ion 120.80 (120.50 to 121.50): VU034194.D (-1157) (-)





#43

Isopropyl Acetate

Concen: 7.401 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034194.D

Acq: 02 Sep 2019 12:06

Instrument :

MSVOA_U

ClientSampleId :

T16-17-B2-(2.25)

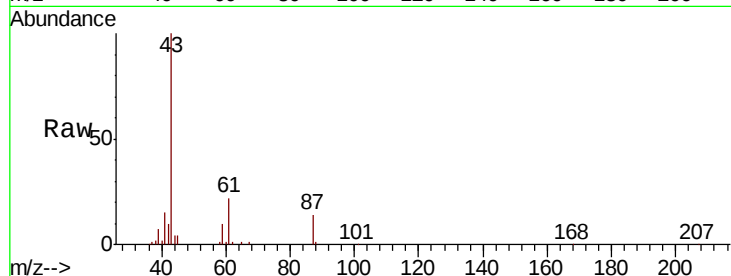
Tgt Ion: 43 Resp: 85391

Ion Ratio Lower Upper

43 100

61 20.5 17.2 25.8

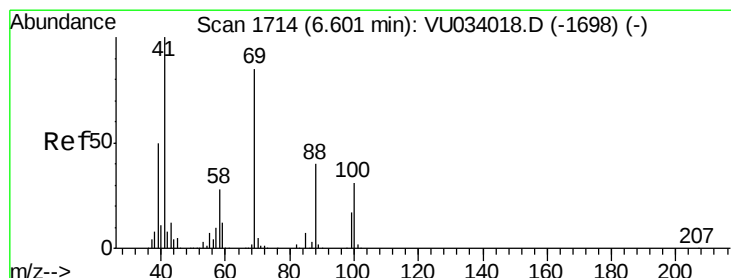
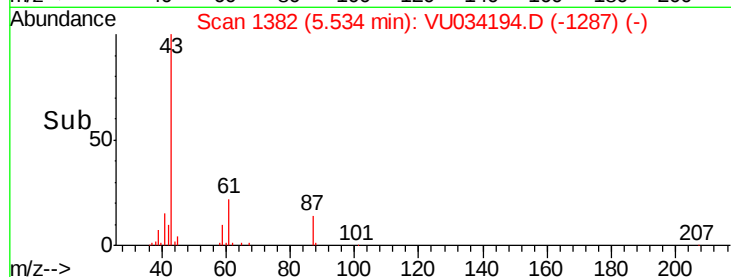
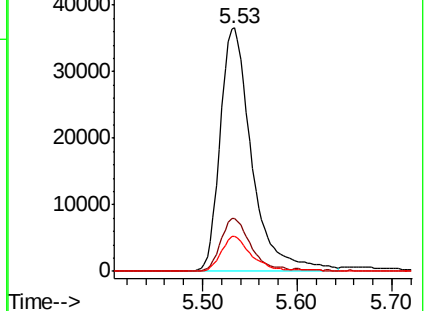
87 13.7 10.8 16.2



Abundance Ion 43.00 (42.70 to 43.70): VU034194.D (-1382) (-)

Ion 61.00 (60.70 to 61.70): VU034194.D (-1382) (-)

Ion 87.00 (86.70 to 87.70): VU034194.D (-1382) (-)



#48

Methyl methacrylate

Concen: 0.993 ug/l

RT: 6.52 min Scan# 1690

Delta R.T. -0.08 min

Lab File: VU034194.D

Acq: 02 Sep 2019 12:06

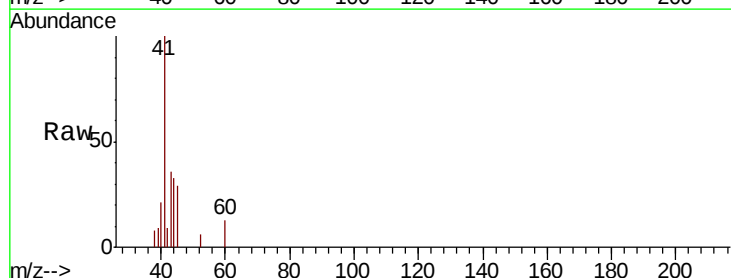
Tgt Ion: 41 Resp: 5529

Ion Ratio Lower Upper

41 100

69 0.0 69.5 104.3#

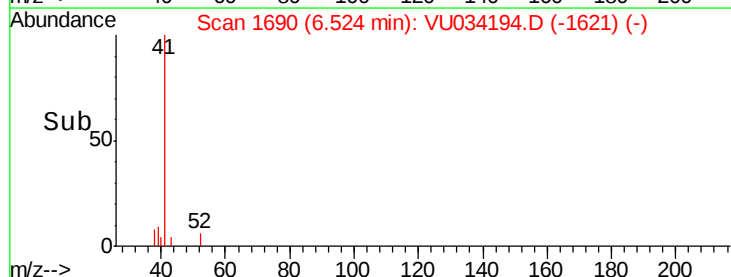
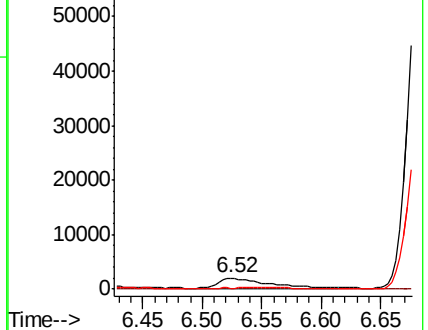
39 0.0 40.3 60.5#

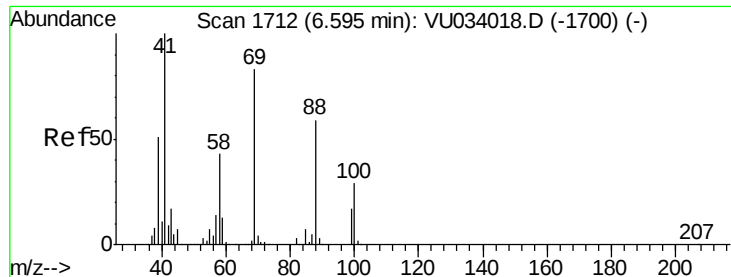


Abundance Ion 41.00 (40.70 to 41.70): VU034194.D (-1690) (-)

Ion 69.00 (68.70 to 69.70): VU034194.D (-1690) (-)

Ion 39.00 (38.70 to 39.70): VU034194.D (-1690) (-)





#49

1,4-Dioxane

Concen: 1.283 ug/l

RT: 6.69 min Scan# 1741

Delta R.T. 0.09 min

Lab File: VU034194.D

Acq: 02 Sep 2019 12:06

Instrument :

MSVOA_U

ClientSampleId :

T16-17-B2-(2.25)

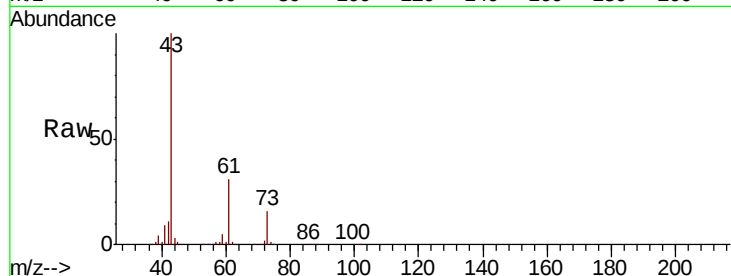
Tgt Ion: 88 Resp: 179

Ion Ratio Lower Upper

88 100

43 849317.3 24.8 37.2#

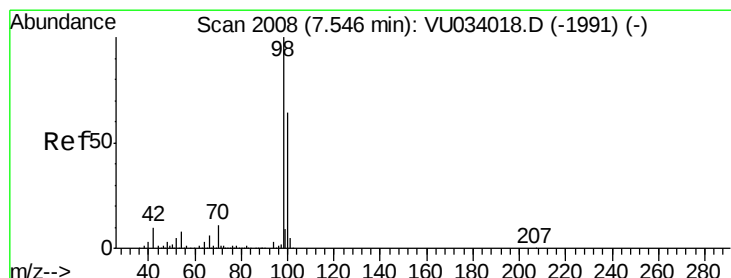
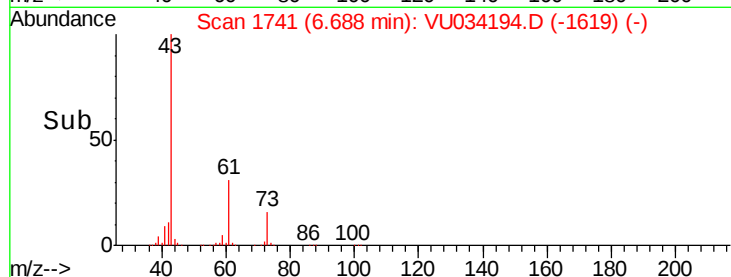
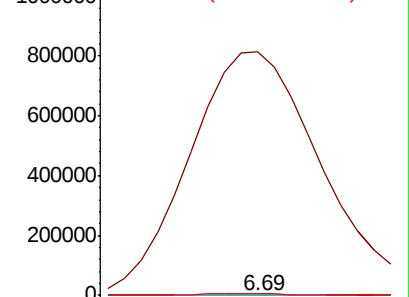
58 4826.3 59.3 88.9#



Abundance Ion 88.00 (87.70 to 88.70): VU034194.D (-1741) (-)

Ion 43.00 (42.70 to 43.70): VU034194.D (-1741) (-)

Ion 58.00 (57.70 to 58.70): VU034194.D (-1741) (-)



#50

Toluene-d8

Concen: 50.307 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034194.D

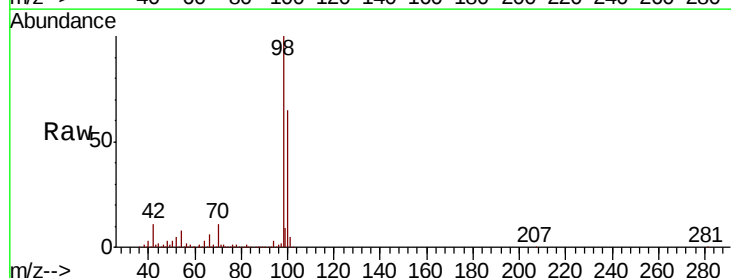
Acq: 02 Sep 2019 12:06

Tgt Ion: 98 Resp: 935405

Ion Ratio Lower Upper

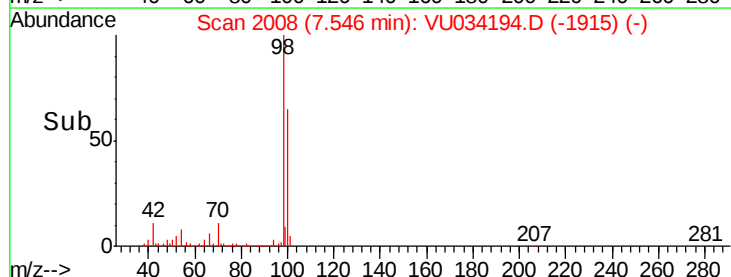
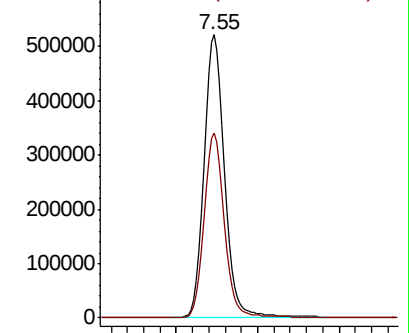
98 100

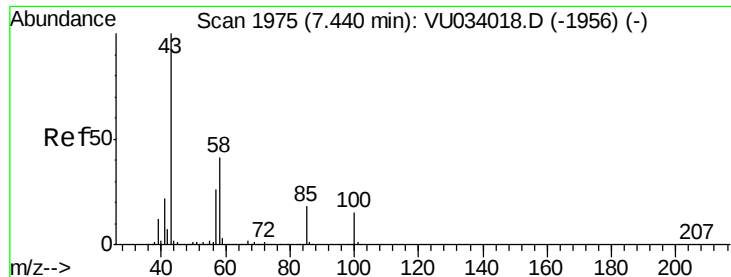
100 64.2 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU034194.D (-2008) (-)

Ion 100.00 (99.70 to 100.70): VU034194.D (-2008) (-)





#51

4-Methyl-2-Pentanone

Concen: 9.823 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034194.D

Acq: 02 Sep 2019 12:06

Instrument :

MSVOA_U

ClientSampleId :

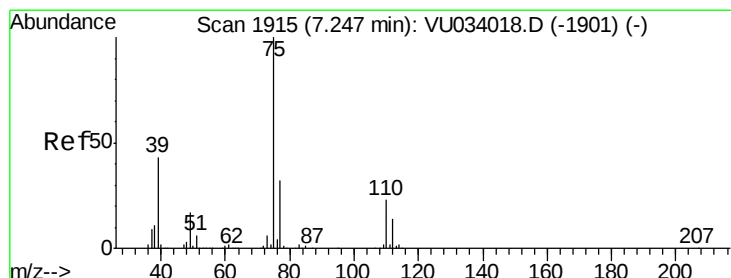
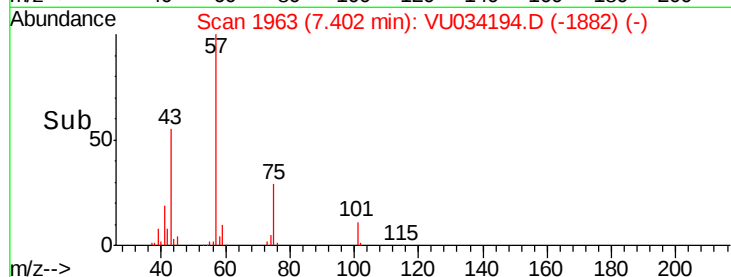
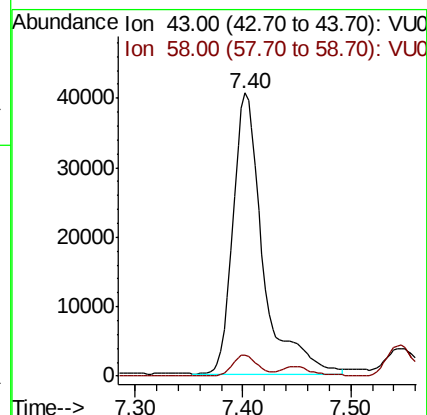
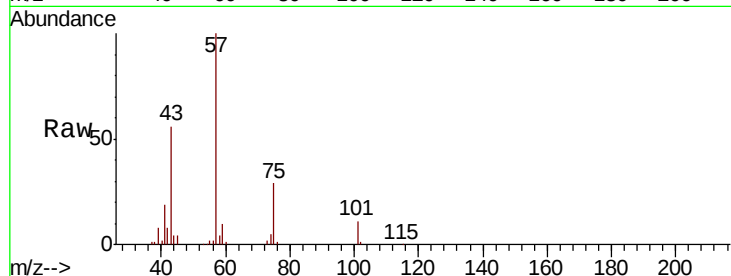
T16-17-B2-(2.25)

Tgt Ion: 43 Resp: 78268

Ion Ratio Lower Upper

43 100

58 6.4 32.2 48.4#



#54

cis-1,3-Dichloropropene

Concen: 4.270 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034194.D

Acq: 02 Sep 2019 12:06

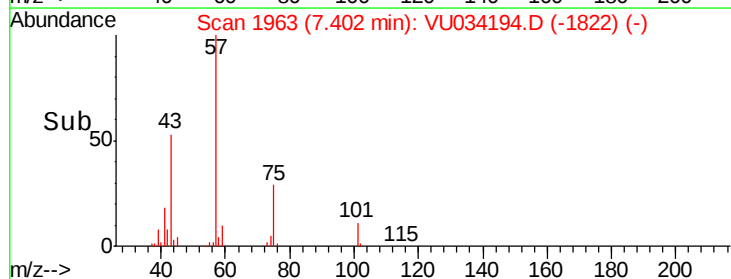
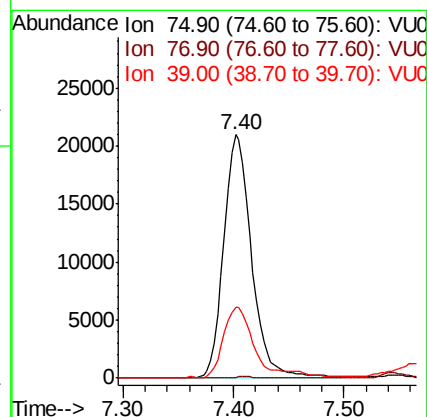
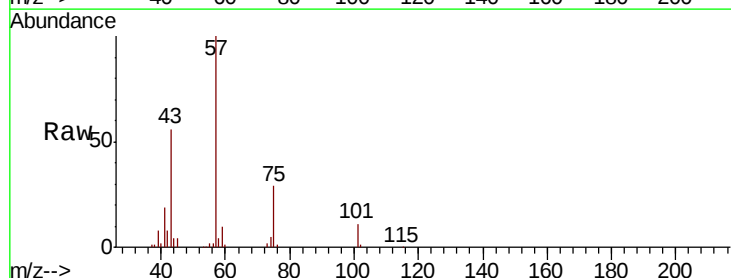
Tgt Ion: 75 Resp: 36800

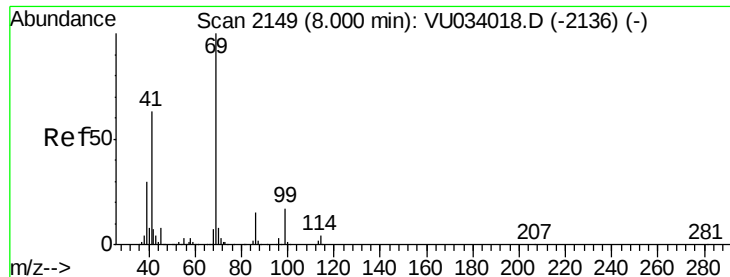
Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

39 28.5 34.6 51.8#





#56

Ethyl methacrylate

Concen: 0.987 ug/l

RT: 8.03 min Scan# 2159

Delta R.T. 0.03 min

Lab File: VU034194.D

Acq: 02 Sep 2019 12:06

Instrument :

MSVOA_U

ClientSampleId :

T16-17-B2-(2.25)

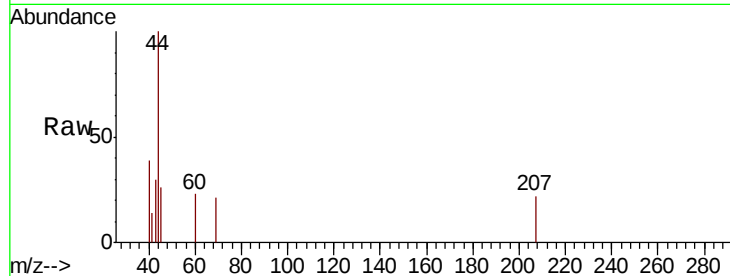
Tgt Ion: 69 Resp: 137

Ion Ratio Lower Upper

69 100

41 0.0 50.7 76.1#

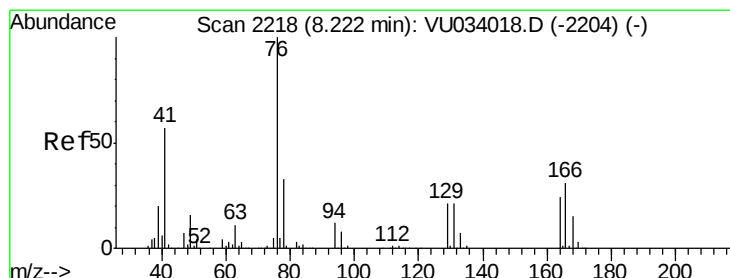
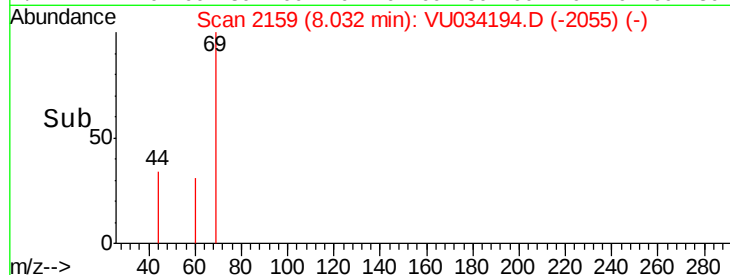
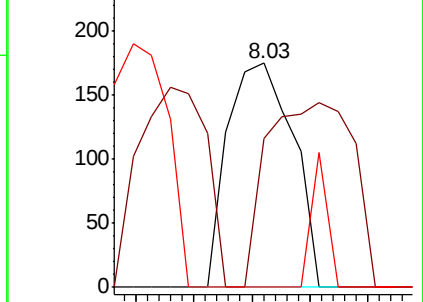
39 0.0 24.2 36.2#



Abundance Ion 69.00 (68.70 to 69.70): VU0

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0



#57

1,3-Dichloropropane

Concen: 0.659 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034194.D

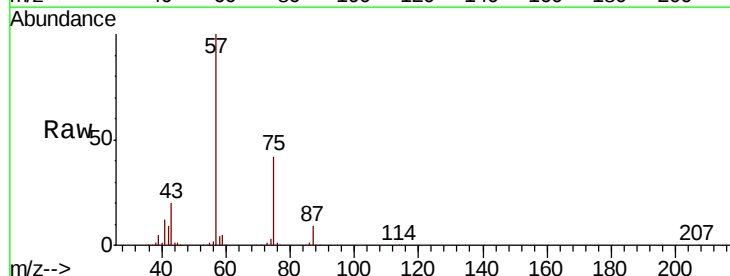
Acq: 02 Sep 2019 12:06

Tgt Ion: 76 Resp: 5971

Ion Ratio Lower Upper

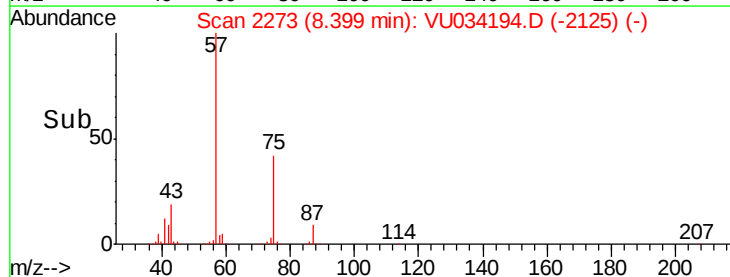
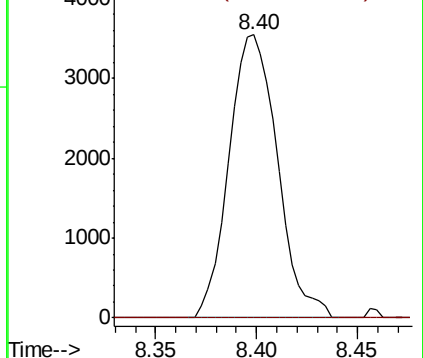
76 100

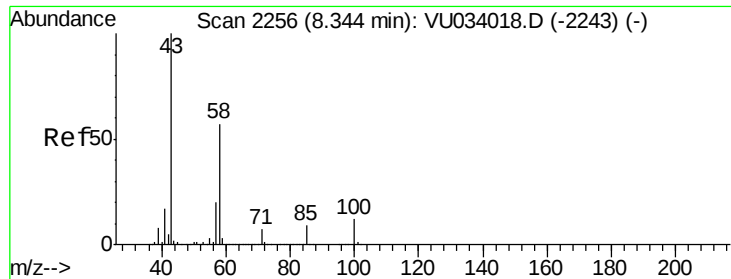
78 0.0 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

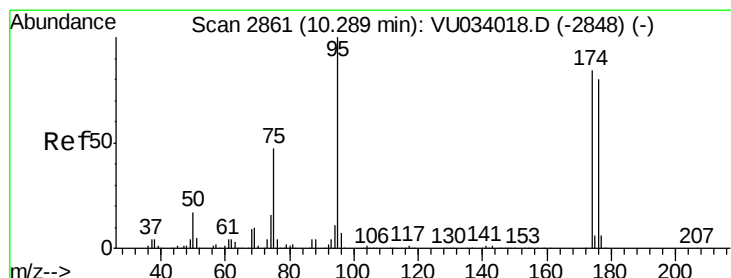
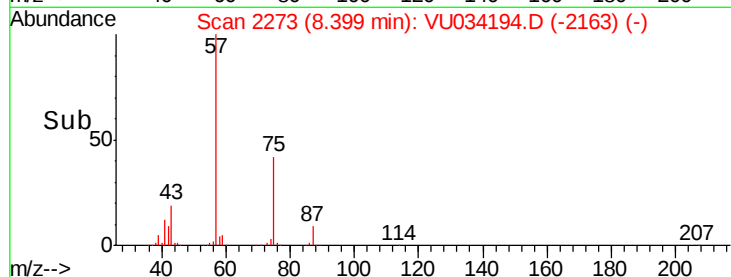
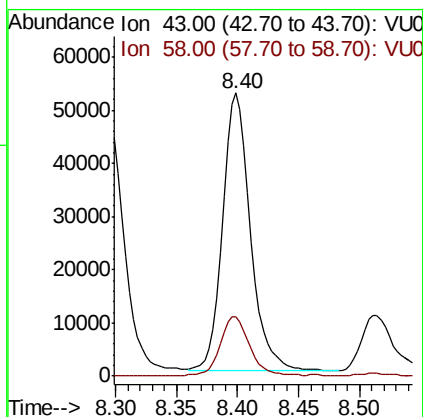
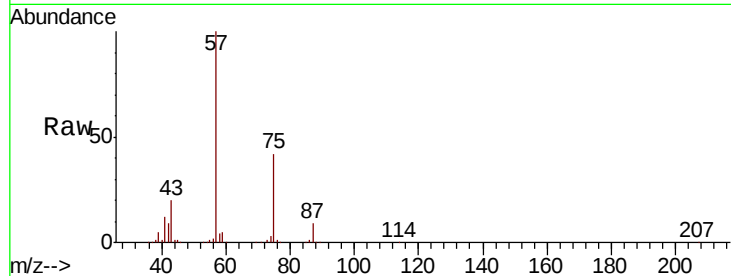




#59
2-Hexanone
Concen: 13.952 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034194.D
Acq: 02 Sep 2019 12:06

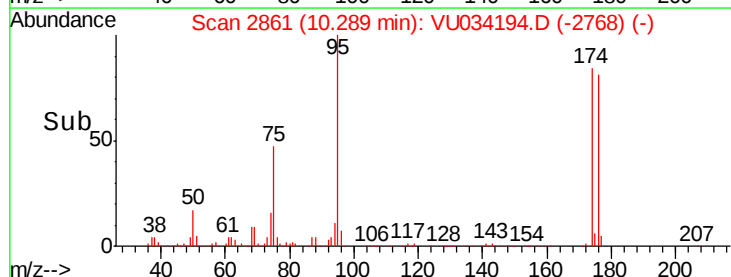
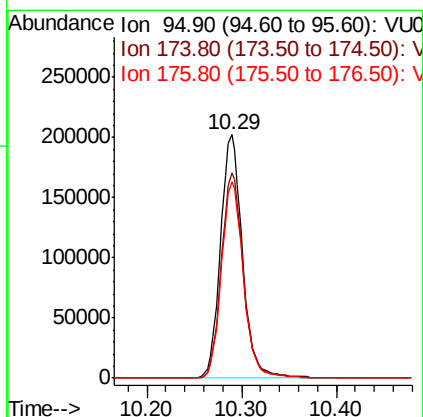
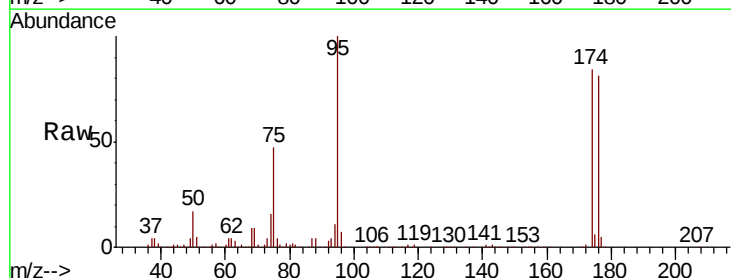
Instrument :
MSVOA_U
ClientSampleId :
T16-17-B2-(2.25)

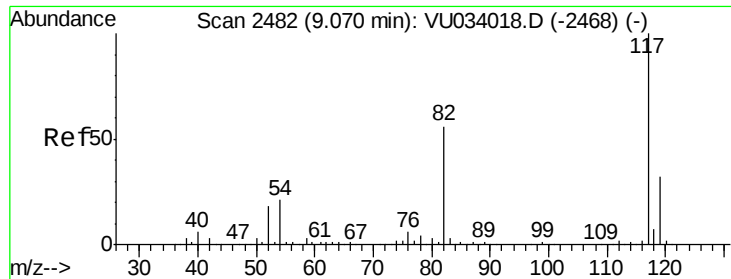
Tgt Ion: 43 Resp: 83917
Ion Ratio Lower Upper
43 100
58 23.0 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 45.063 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034194.D
Acq: 02 Sep 2019 12:06

Tgt Ion: 95 Resp: 325930
Ion Ratio Lower Upper
95 100
174 84.7 0.0 168.8
176 81.4 0.0 161.8

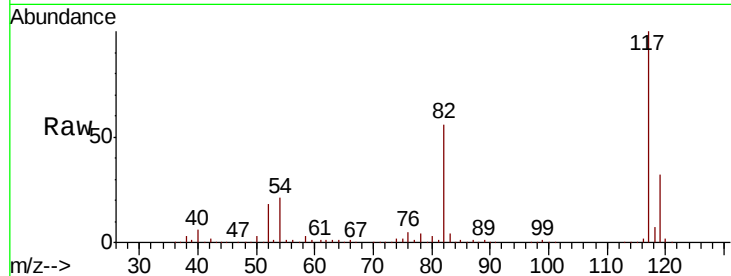




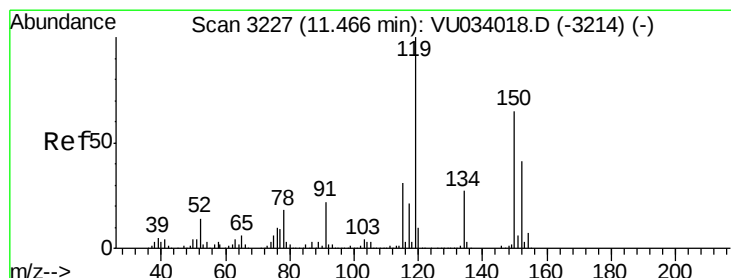
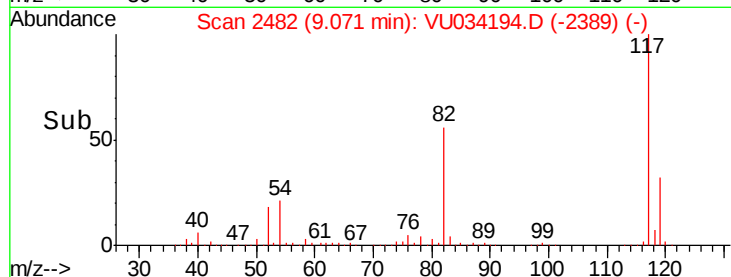
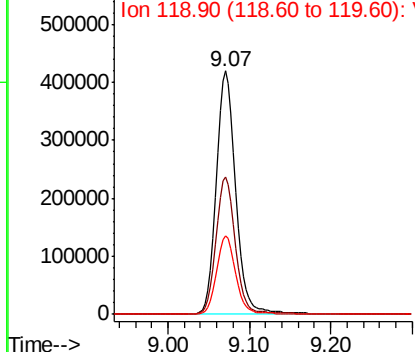
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.07 min Scan# 2482
 Delta R.T. 0.00 min
 Lab File: VU034194.D
 Acq: 02 Sep 2019 12:06

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-B2-(2.25)

Tgt Ion:117 Resp: 713943
 Ion Ratio Lower Upper
 117 100
 82 56.5 45.1 67.7
 119 32.4 25.4 38.0

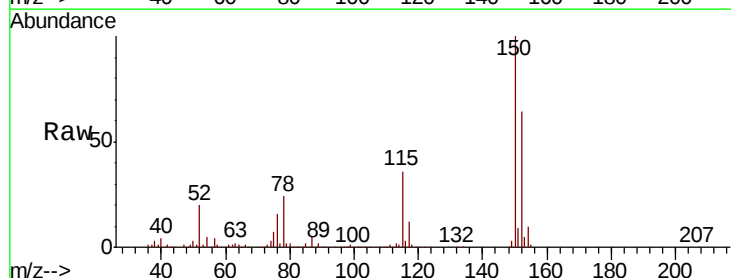


Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): VU0
 Ion 118.90 (118.60 to 119.60): V

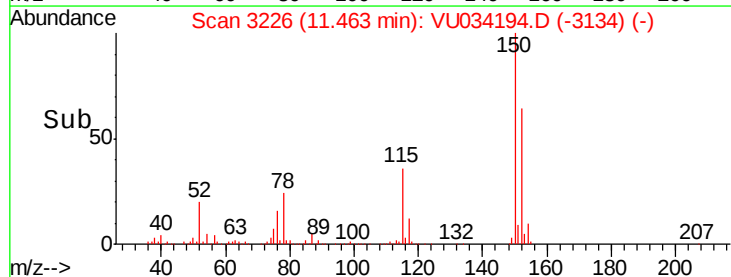
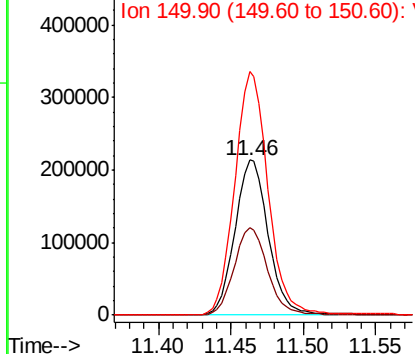


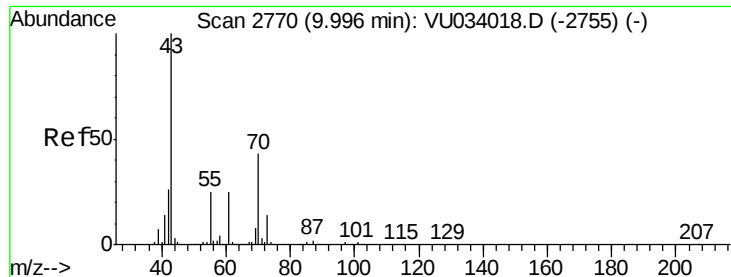
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.46 min Scan# 3226
 Delta R.T. -0.00 min
 Lab File: VU034194.D
 Acq: 02 Sep 2019 12:06

Tgt Ion:152 Resp: 341872
 Ion Ratio Lower Upper
 152 100
 115 57.0 41.1 123.3
 150 156.8 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-amyI acetate

Concen: 0.231 ug/l

RT: 9.93 min Scan# 2748

Delta R.T. -0.07 min

Lab File: VU034194.D

Acq: 02 Sep 2019 12:06

Instrument :

MSVOA_U

ClientSampleId :

T16-17-B2-(2.25)

Tgt Ion: 43 Resp: 2231

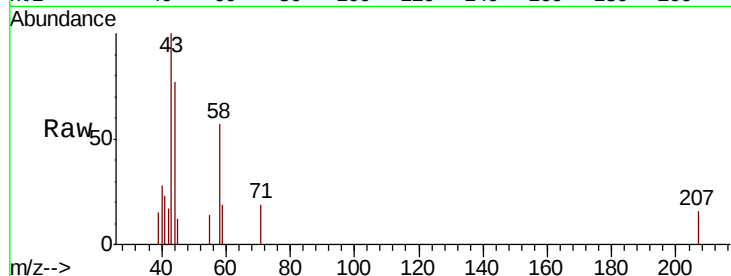
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 8.0 20.5 30.7#

61 0.0 20.0 30.0#

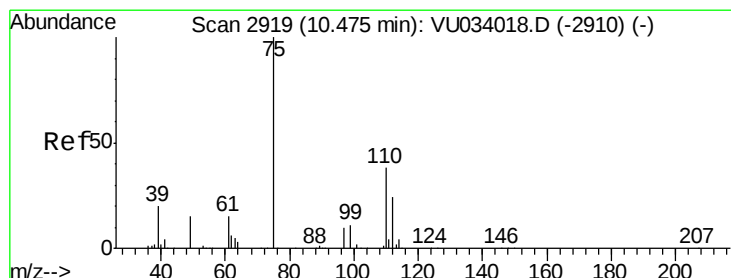
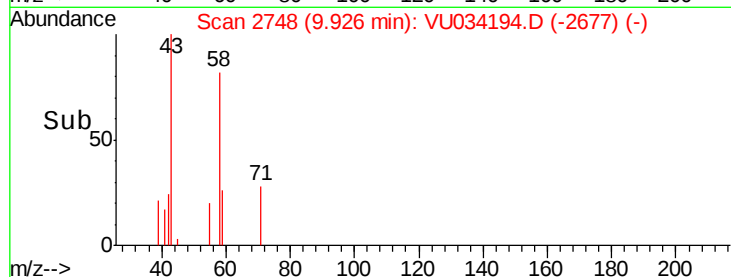
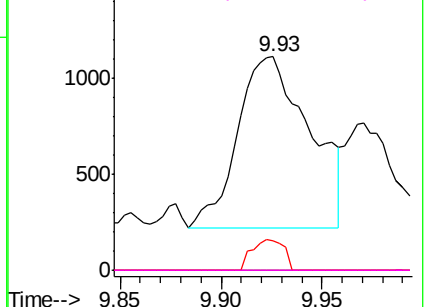


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0



#76

1,2,3-Trichloropropane

Concen: 19.980 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034194.D

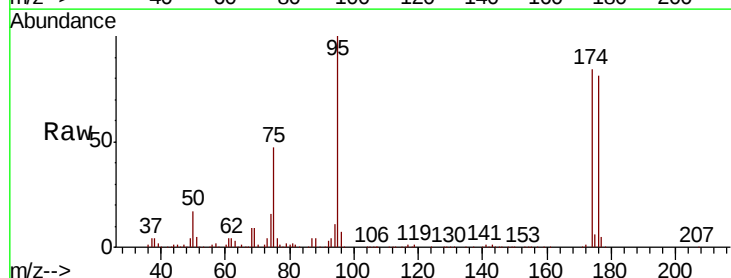
Acq: 02 Sep 2019 12:06

Tgt Ion: 75 Resp: 153952

Ion Ratio Lower Upper

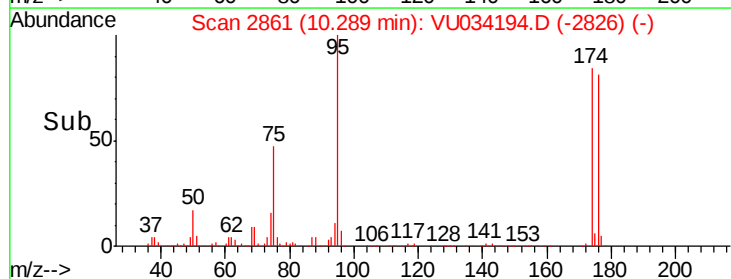
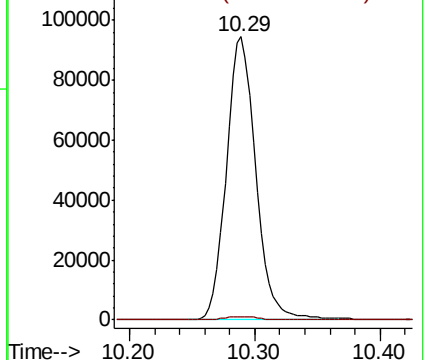
75 100

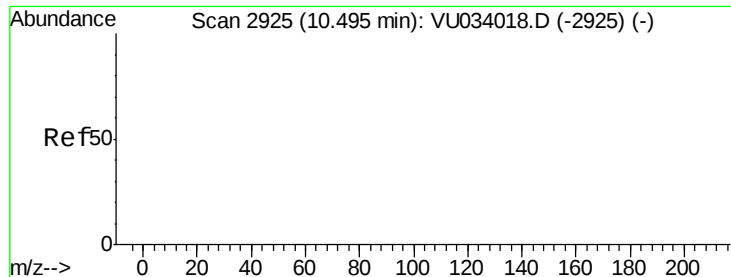
77 1.4 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

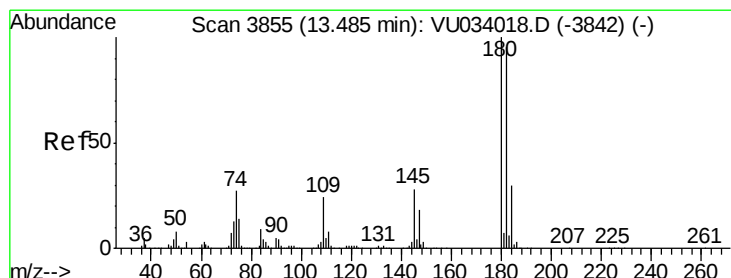
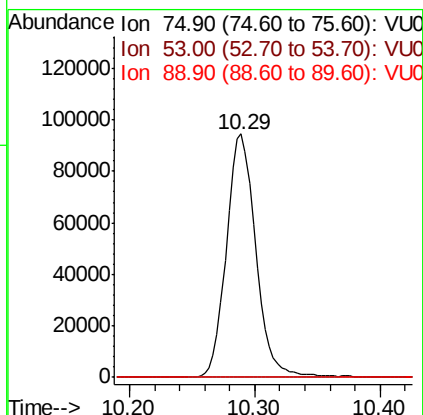
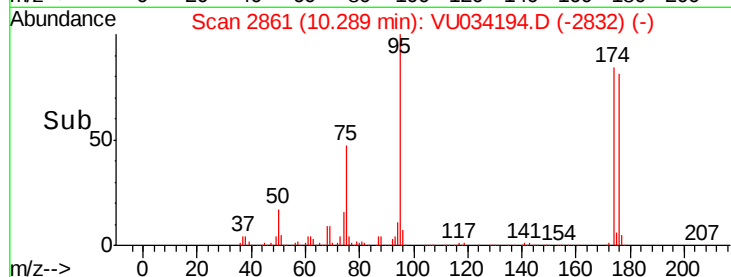
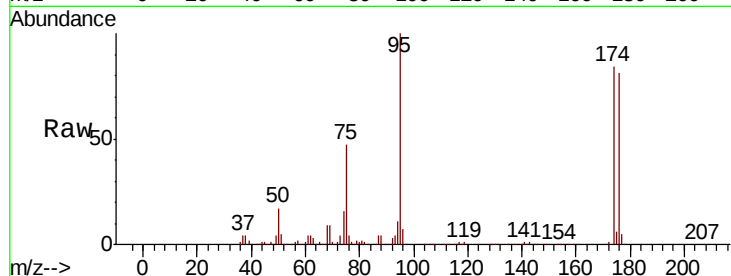




#81
trans-1,4-Dichloro-2-butene
Concen: 67.278 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.21 min
Lab File: VU034194.D
Acq: 02 Sep 2019 12:06

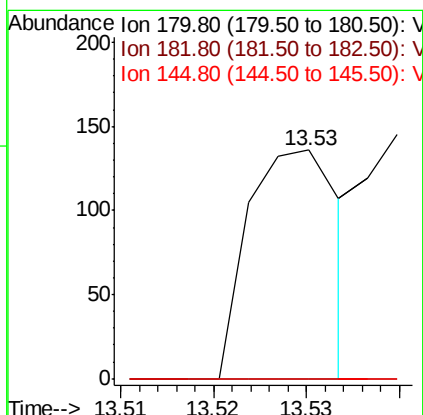
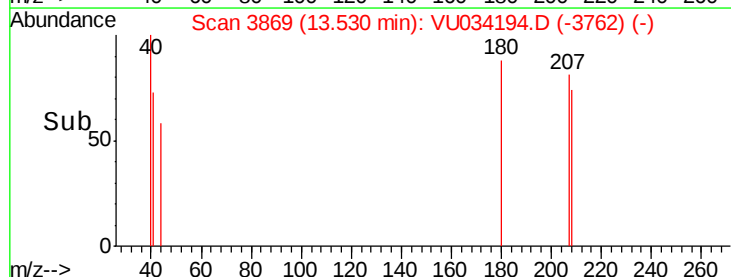
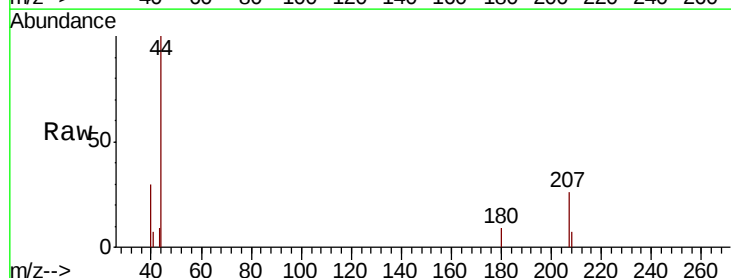
Instrument :
MSVOA_U
ClientSampleId :
T16-17-B2-(2.25)

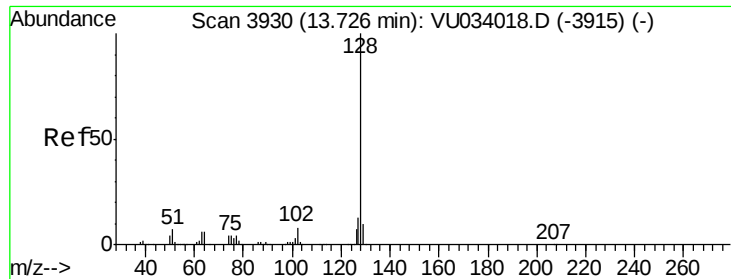
Tgt Ion: 75 Resp: 153952
Ion Ratio Lower Upper
75 100
53 0.1 0.0 0.0#
89 0.0 0.0 0.0#



#93
1,2,4-Trichlorobenzene
Concen: 1.126 ug/l
RT: 13.53 min Scan# 3869
Delta R.T. 0.05 min
Lab File: VU034194.D
Acq: 02 Sep 2019 12:06

Tgt Ion: 180 Resp: 93
Ion Ratio Lower Upper
180 100
182 0.0 47.4 142.2#
145 0.0 14.1 42.3#





#95
Naphthalene
Concen: 1.800 ug/l
RT: 13.76 min Scan# 3940
Delta R.T. 0.03 min
Lab File: VU034194.D
Acq: 02 Sep 2019 12:06

Instrument :
MSVOA_U
ClientSampleId :
T16-17-B2-(2.25)

Tgt Ion:128 Resp: 218
Ion Ratio Lower Upper
128 100
127 18.3 10.2 15.4#
129 0.0 8.4 12.6#

