

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090319\
 Data File : VU034200.D
 Acq On : 02 Sep 2019 14:25
 Operator : JC/SP
 Sample : K4544-34
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-C4-(0)

Quant Time: Sep 03 05:54:39 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	438754	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	714718	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	715086	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	340133	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	278683	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
35) Dibromofluoromethane	4.86	113	236803	47.77	ug/l	0.00
Spiked Amount			Recovery	=	95.54%	
50) Toluene-d8	7.55	98	934461	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	
62) 4-Bromofluorobenzene	10.29	95	325543	45.09	ug/l	0.00
Spiked Amount			Recovery	=	90.18%	

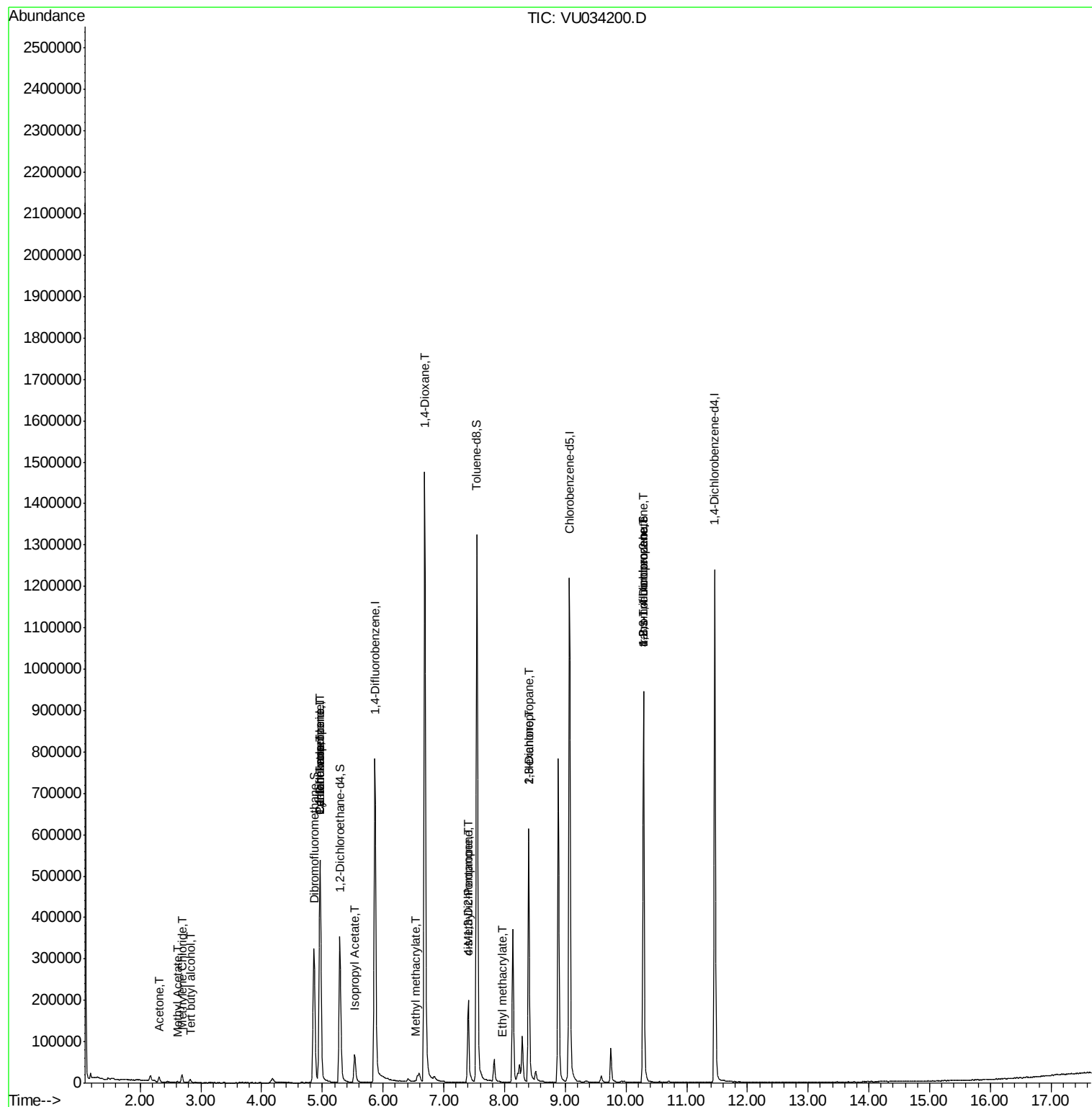
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	501	Below Cal		92
5) Bromomethane	1.63	94	620	Below Cal		81
11) Tert butyl alcohol	2.83	59	4492	3.465	ug/l #	73
16) Acetone	2.31	43	14340	4.999	ug/l	91
18) Methyl Acetate	2.61	43	2928	0.395	ug/l	99
20) Methylene Chloride	2.69	84	9048	1.666	ug/l	92
31) Cyclohexane	4.96	56	8146	0.970	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31461	4.654	ug/l #	48
38) Carbon Tetrachloride	4.96	117	39873	6.110	ug/l #	16
43) Isopropyl Acetate	5.53	43	81151	7.046	ug/l	98
48) Methyl methacrylate	6.53	41	5713	1.028	ug/l #	14
49) 1,4-Dioxane	6.68	88	107	0.768	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	69620	8.753	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	36265	4.215	ug/l #	64
56) Ethyl methacrylate	7.97	69	96	0.982	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6294	0.696	ug/l #	42
59) 2-Hexanone	8.40	43	83712	13.942	ug/l #	54
76) 1,2,3-Trichloropropane	10.29	75	156483	20.413	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	156483	68.734	ug/l #	100

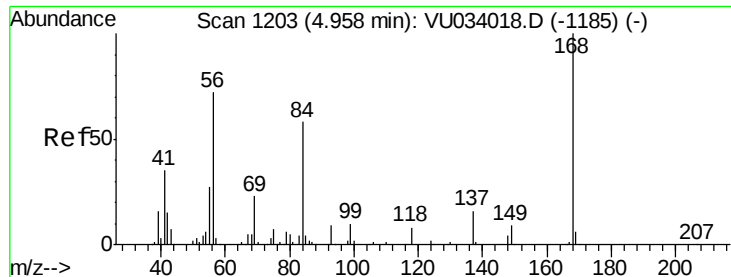
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034200.D

Acq: 02 Sep 2019 14:25

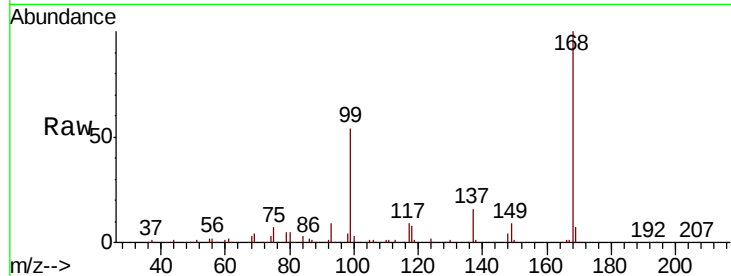
Instrument :
MSVOA_U
ClientSampleId :
T16-17-C4-(0)

Tgt Ion:168 Resp: 438754

Ion Ratio Lower Upper

168 100

99 53.9 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

200000

150000

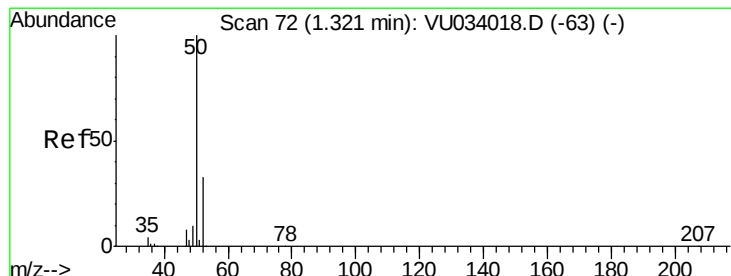
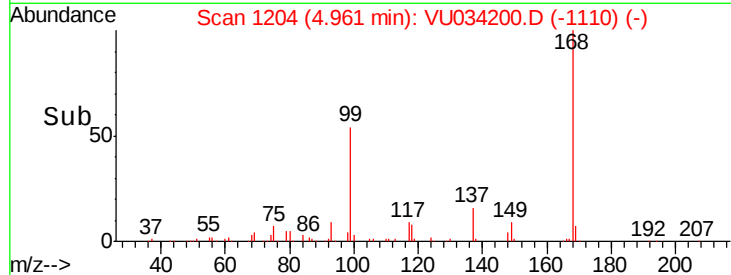
100000

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: VU034200.D

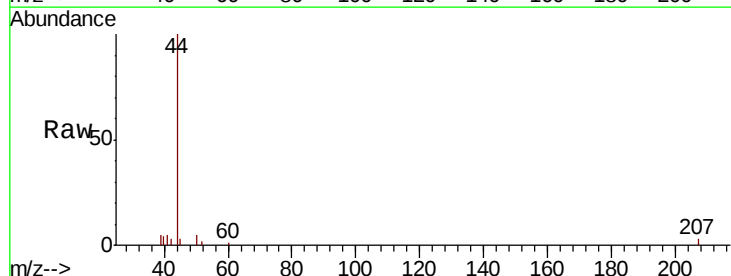
Acq: 02 Sep 2019 14:25

Tgt Ion: 50 Resp: 501

Ion Ratio Lower Upper

50 100

52 37.3 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034018.D (-63) (-)

1.33

500

400

300

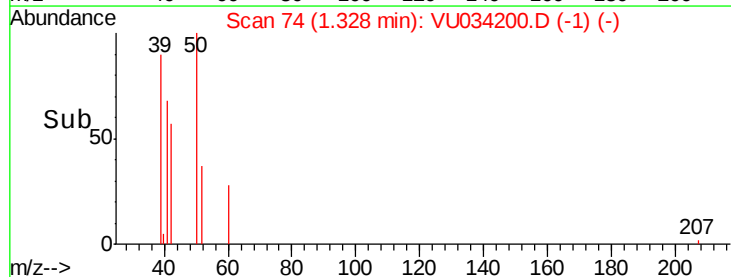
200

100

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: VU034200.D

Acq: 02 Sep 2019 14:25

Instrument :

MSVOA_U

ClientSampleId :

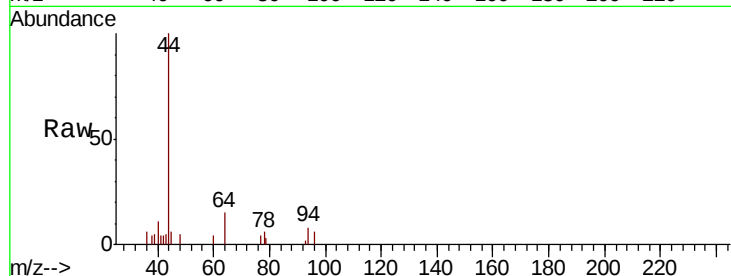
T16-17-C4-(0)

Tgt Ion: 94 Resp: 620

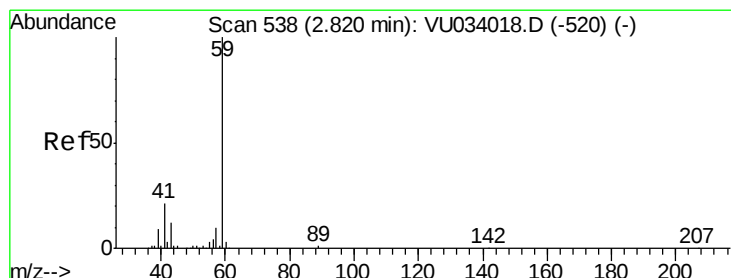
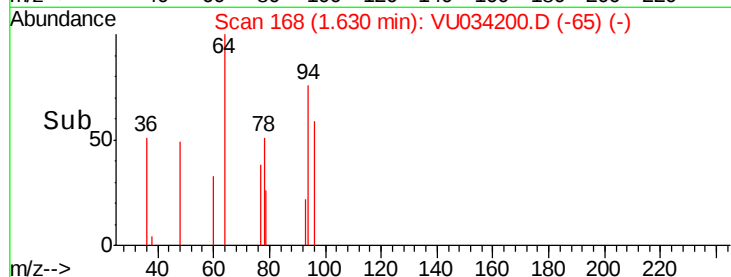
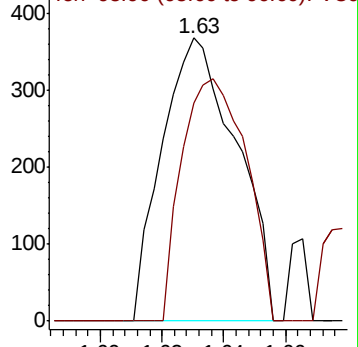
Ion Ratio Lower Upper

94 100

96 77.2 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU034200.D (-168) (-)



#11

Tert butyl alcohol

Concen: 3.465 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034200.D

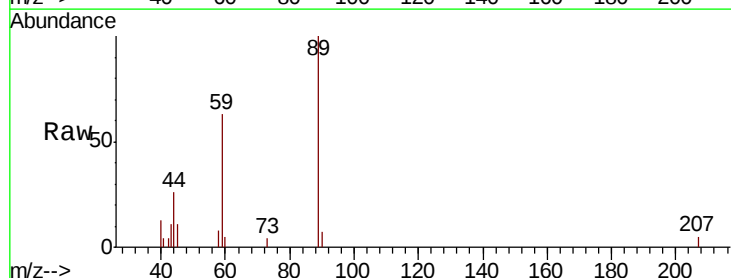
Acq: 02 Sep 2019 14:25

Tgt Ion: 59 Resp: 4492

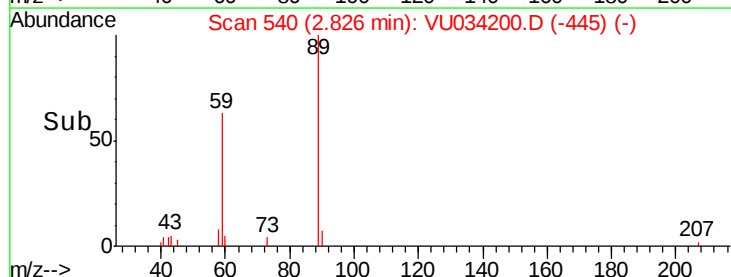
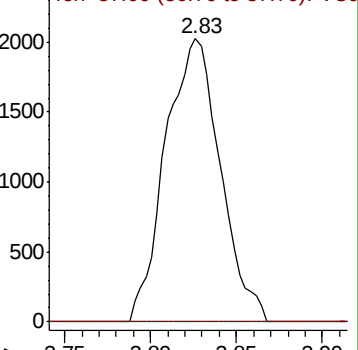
Ion Ratio Lower Upper

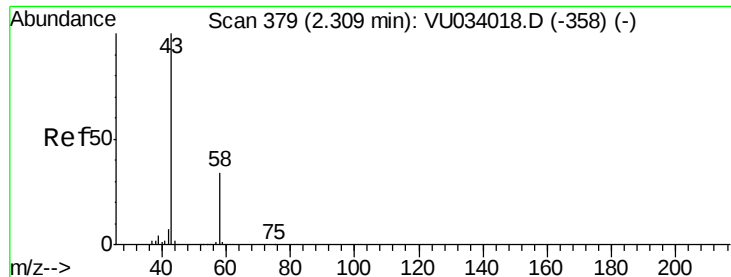
59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034200.D (-540) (-)





#16

Acetone

Concen: 4.999 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034200.D

Acq: 02 Sep 2019 14:25

Instrument :

MSVOA_U

ClientSampleId :

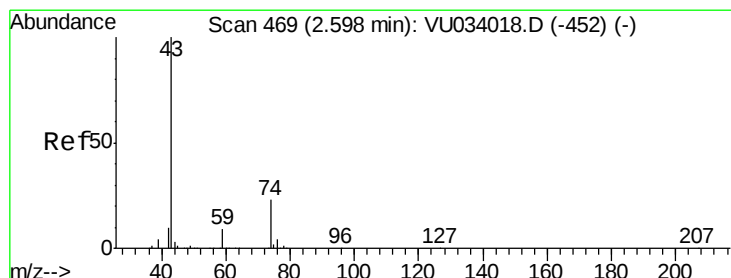
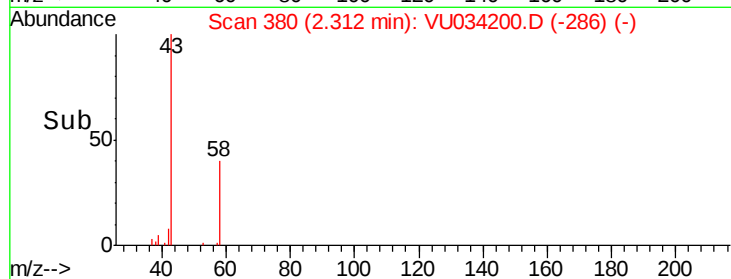
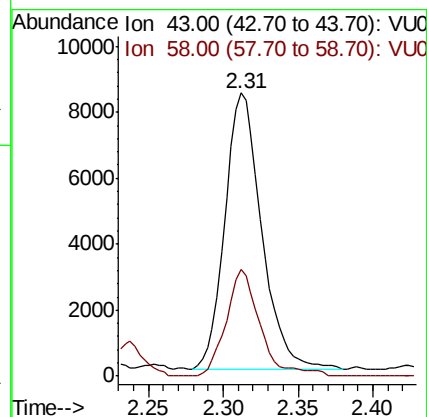
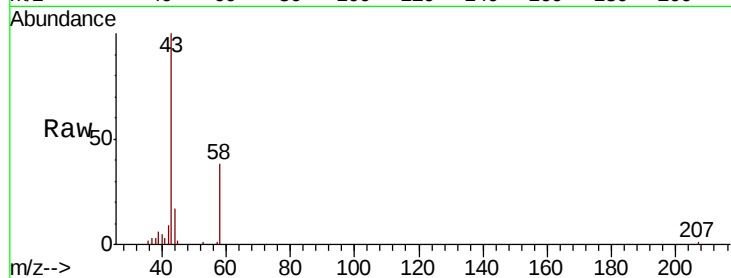
T16-17-C4-(0)

Tgt Ion: 43 Resp: 14340

Ion Ratio Lower Upper

43 100

58 38.6 26.8 40.2



#18

Methyl Acetate

Concen: 0.395 ug/l

RT: 2.61 min Scan# 472

Delta R.T. 0.01 min

Lab File: VU034200.D

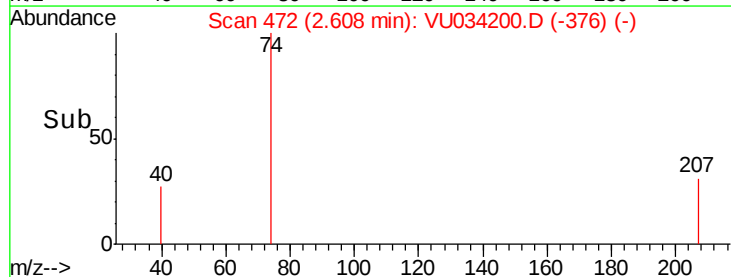
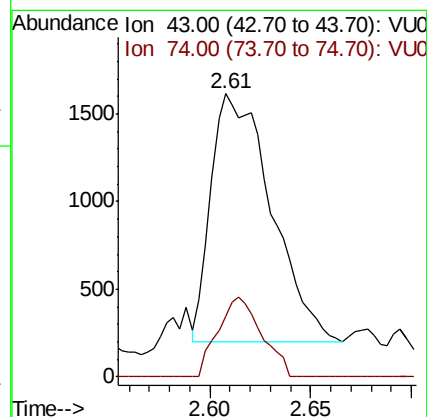
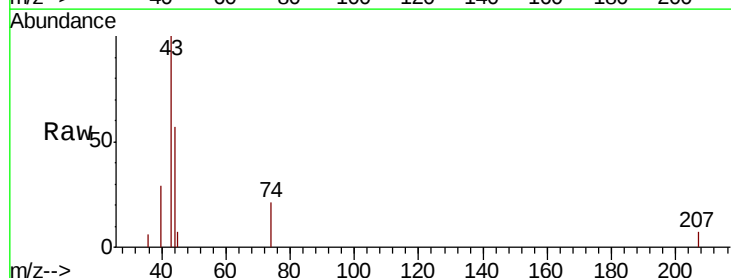
Acq: 02 Sep 2019 14:25

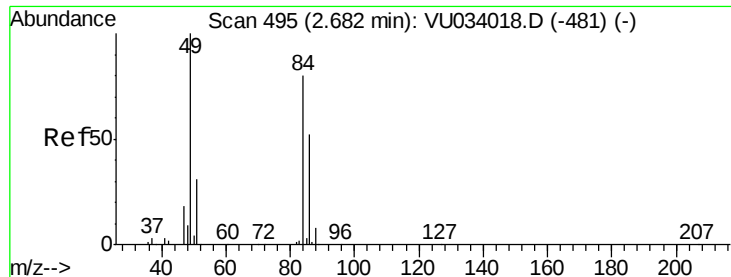
Tgt Ion: 43 Resp: 2928

Ion Ratio Lower Upper

43 100

74 23.4 19.2 28.8

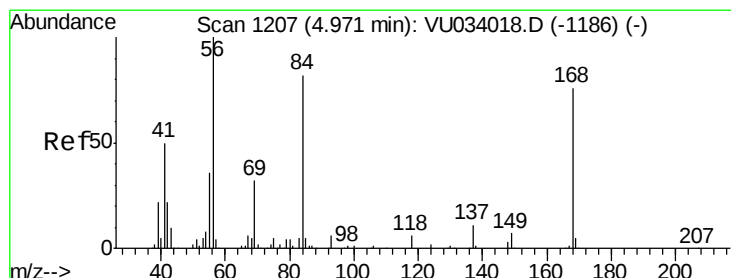
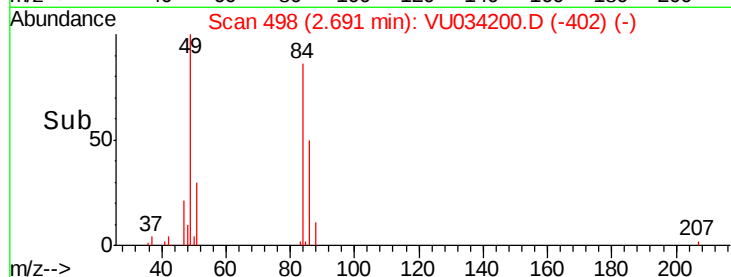
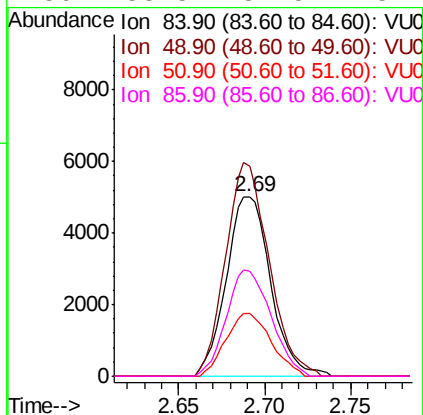
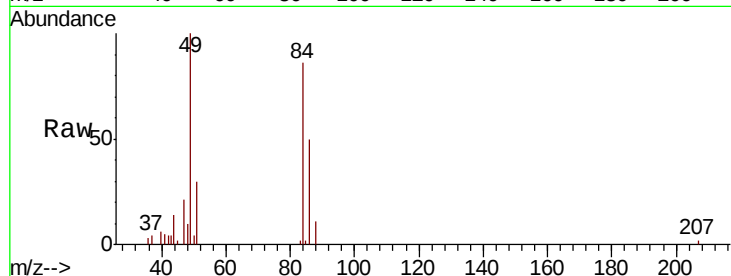




#20
Methylene Chloride
Concen: 1.666 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034200.D
Acq: 02 Sep 2019 14:25

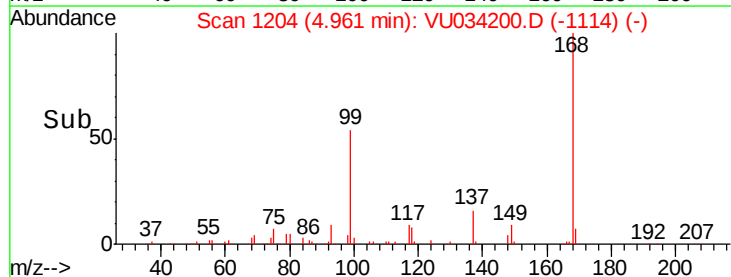
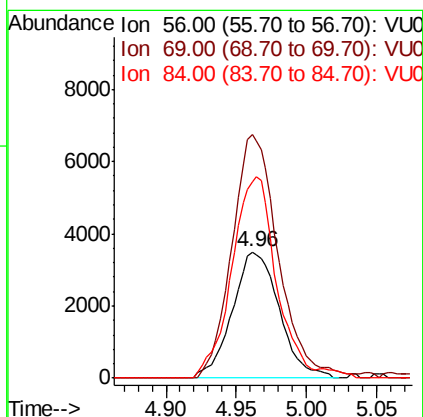
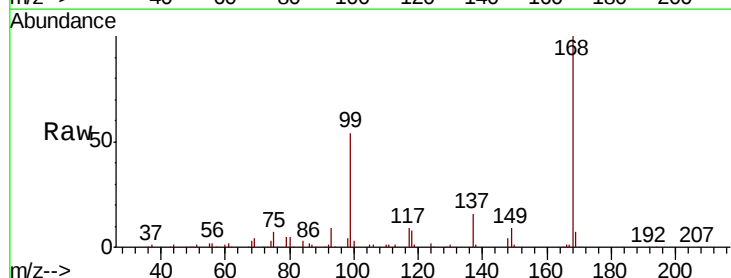
Instrument :
MSVOA_U
ClientSampleId :
T16-17-C4-(0)

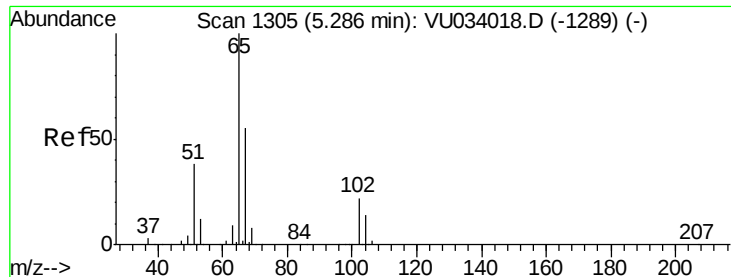
Tgt Ion:	84	Resp:	9048
Ion	Ratio	Lower	Upper
84	100		
49	116.9	100.2	150.4
51	34.6	30.8	46.2
86	58.5	52.5	78.7



#31
Cyclohexane
Concen: 0.970 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034200.D
Acq: 02 Sep 2019 14:25

Tgt Ion:	56	Resp:	8146
Ion	Ratio	Lower	Upper
56	100		
69	193.5	25.4	38.0#
84	156.2	65.8	98.8#





#33

1,2-Dichloroethane-d4

Concen: 49.571 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034200.D

Acq: 02 Sep 2019 14:25

Instrument :

MSVOA_U

ClientSampleId :

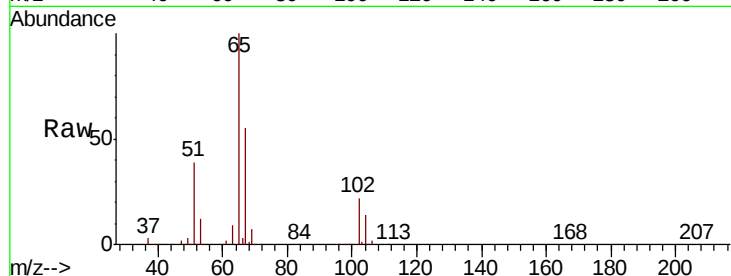
T16-17-C4-(0)

Tgt Ion: 65 Resp: 278683

Ion Ratio Lower Upper

65 100

67 53.8 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034200.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034200.D (-1289) (-)

5.29

150000

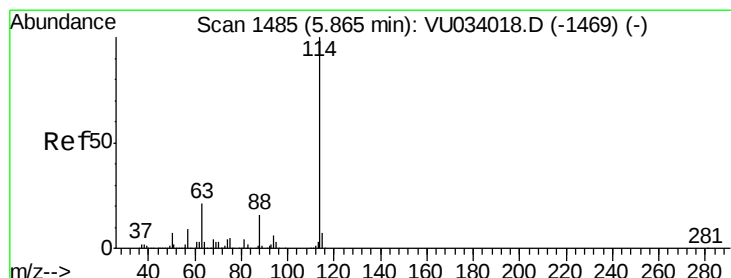
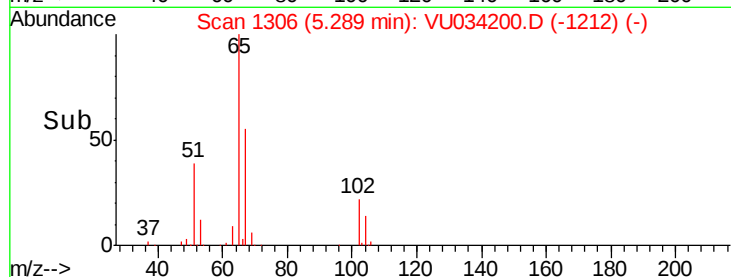
100000

50000

0

Time-->

5.20 5.30 5.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034200.D

Acq: 02 Sep 2019 14:25

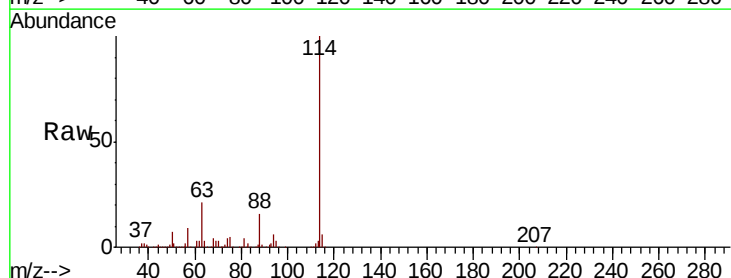
Tgt Ion: 114 Resp: 714718

Ion Ratio Lower Upper

114 100

63 21.0 0.0 42.0

88 16.0 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): VU034200.D (-1392) (-)

Ion 63.00 (62.70 to 63.70): VU034200.D (-1392) (-)

Ion 87.90 (87.60 to 88.60): VU034200.D (-1392) (-)

5.87

400000

300000

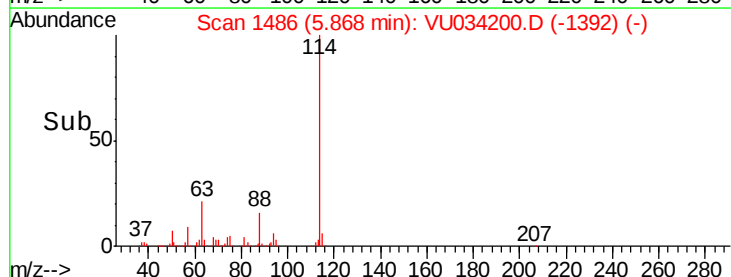
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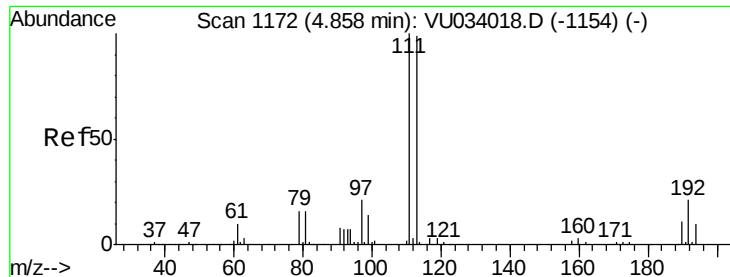
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0

Time-->

5.80 5.90 6.00 6.10

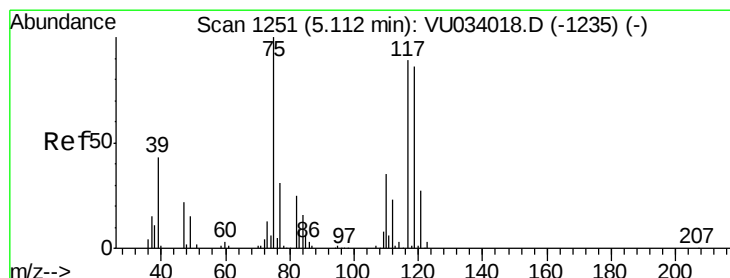
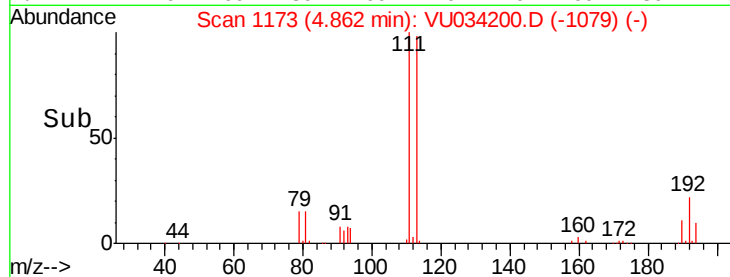
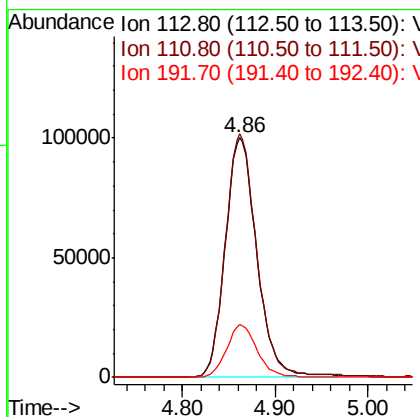
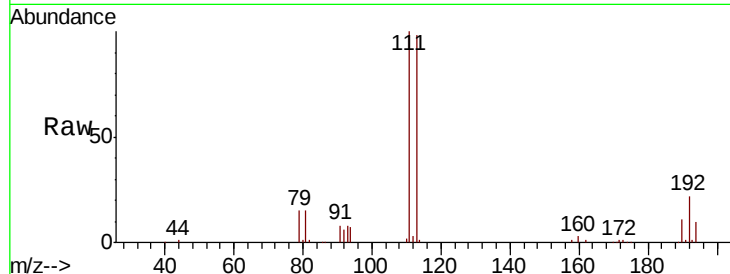




#35
 Dibromofluoromethane
 Concen: 47.769 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034200.D
 Acq: 02 Sep 2019 14:25

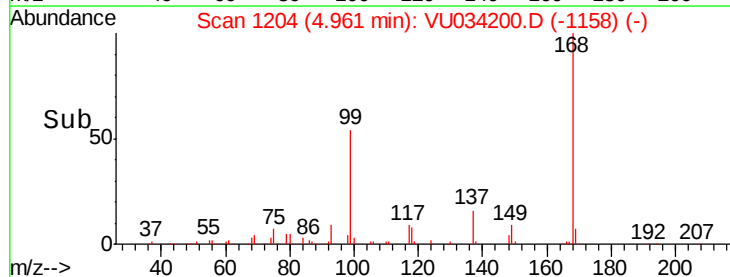
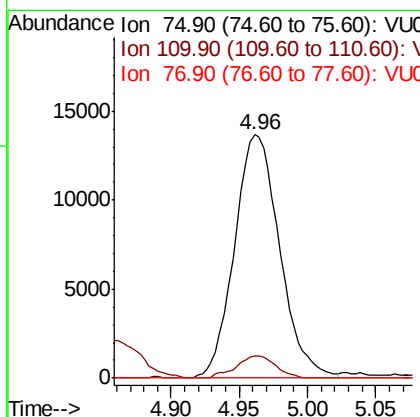
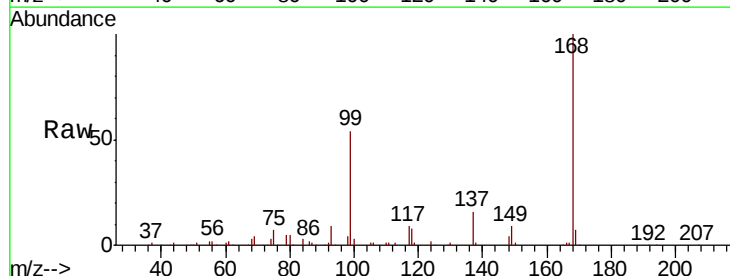
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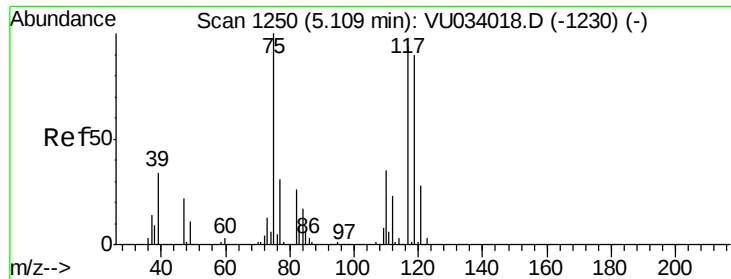
Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.7	81.7	122.5
192	21.3	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.654 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034200.D
 Acq: 02 Sep 2019 14:25

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

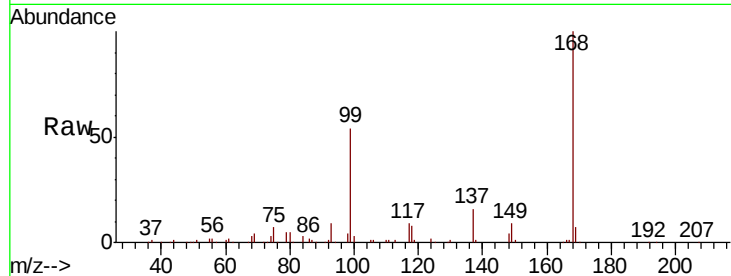




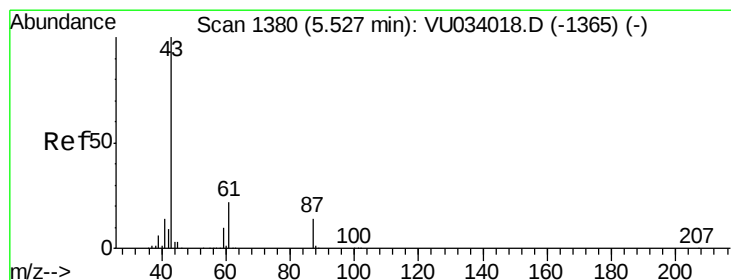
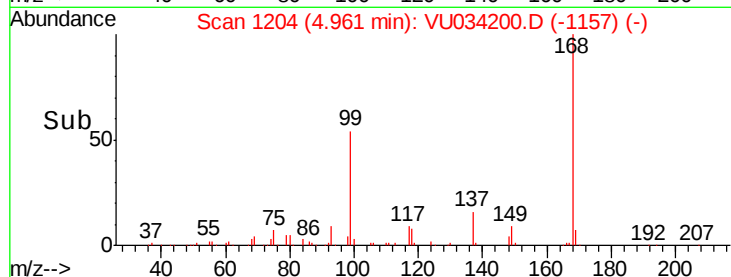
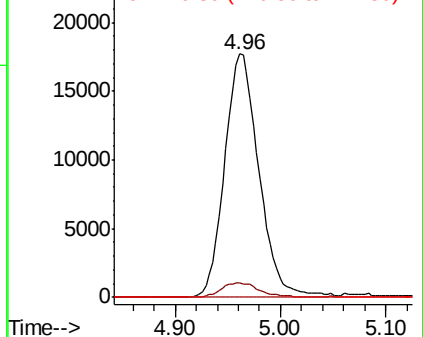
#38
Carbon Tetrachloride
Concen: 6.110 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.15 min
Lab File: VU034200.D
Acq: 02 Sep 2019 14:25

Instrument :
MSVOA_U
ClientSampleId :
T16-17-C4-(0)

Tgt Ion: 117 Resp: 39873
Ion Ratio Lower Upper
117 100
119 5.7 77.0 115.4#
121 0.0 23.9 35.9#

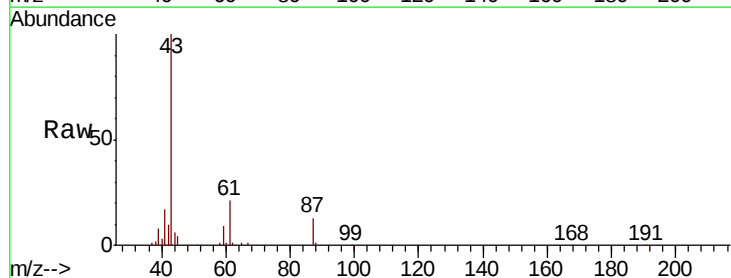


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

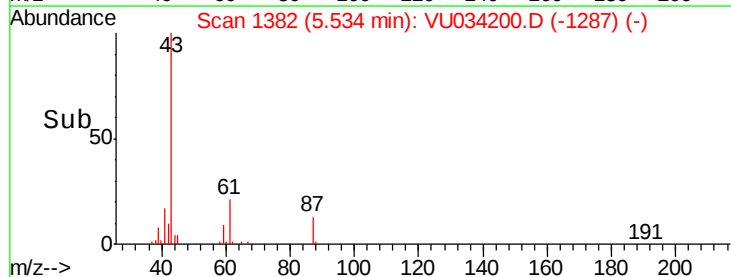
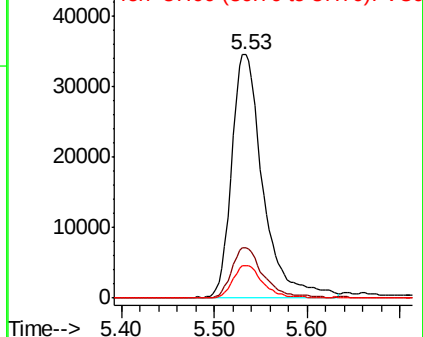


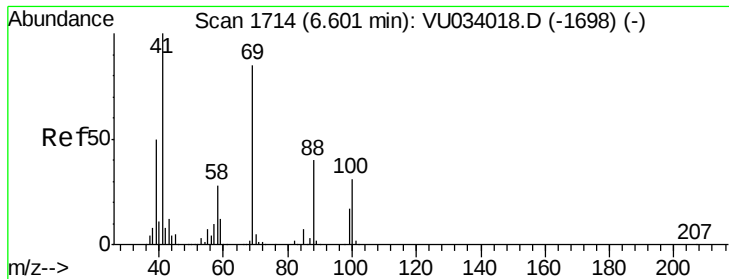
#43
Isopropyl Acetate
Concen: 7.046 ug/l
RT: 5.53 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VU034200.D
Acq: 02 Sep 2019 14:25

Tgt Ion: 43 Resp: 81151
Ion Ratio Lower Upper
43 100
61 20.3 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

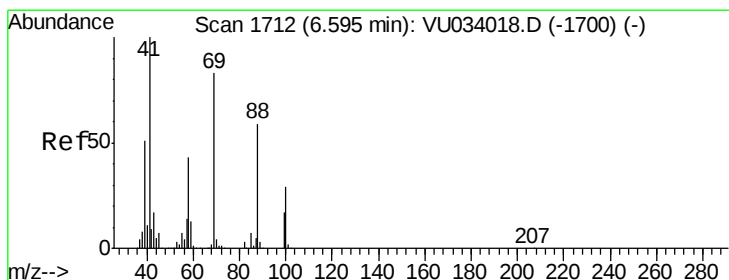
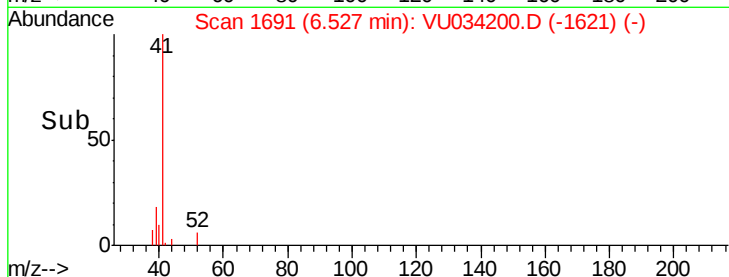
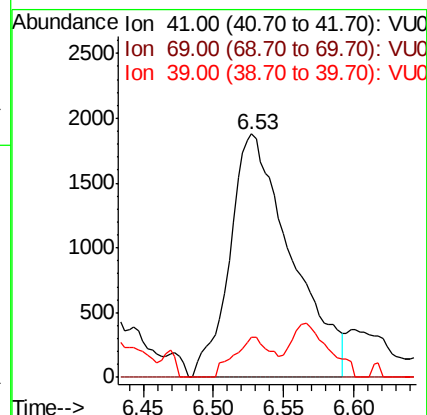
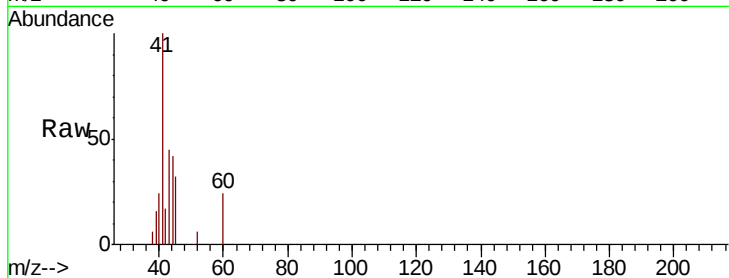




#48
Methyl methacrylate
Concen: 1.028 ug/l
RT: 6.53 min Scan# 1691
Delta R.T. -0.07 min
Lab File: VU034200.D
Acq: 02 Sep 2019 14:25

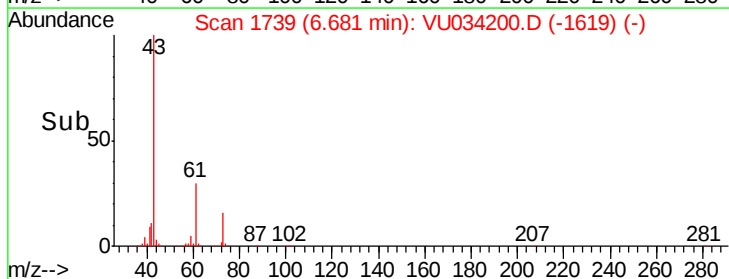
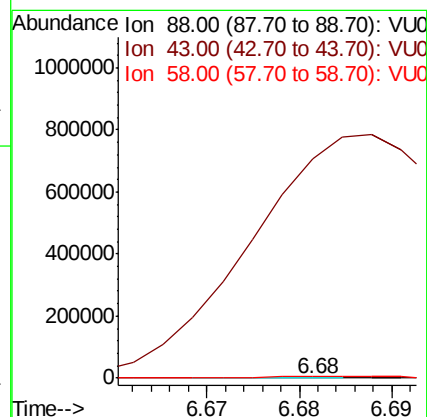
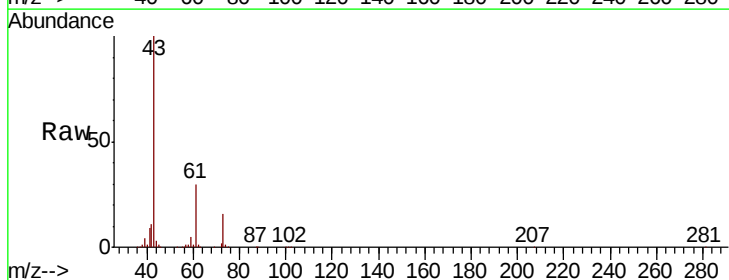
Instrument :
MSVOA_U
ClientSampleId :
T16-17-C4-(0)

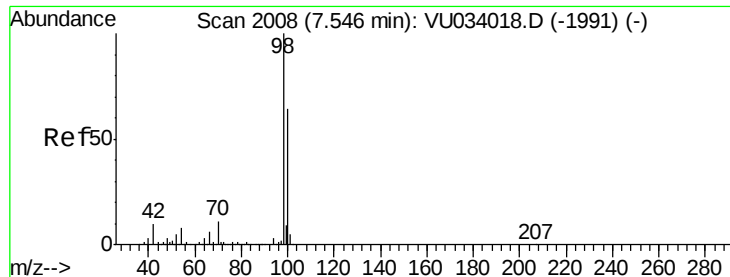
Tgt Ion: 41 Resp: 5713
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#49
1,4-Dioxane
Concen: 0.768 ug/l
RT: 6.68 min Scan# 1739
Delta R.T. 0.09 min
Lab File: VU034200.D
Acq: 02 Sep 2019 14:25

Tgt Ion: 88 Resp: 107
Ion Ratio Lower Upper
88 100
43 1360293.5 24.8 37.2#
58 7614.0 59.3 88.9#





#50

Toluene-d8

Concen: 50.344 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. -0.00 min

Lab File: VU034200.D

Acq: 02 Sep 2019 14:25

Instrument :

MSVOA_U

ClientSampleId :

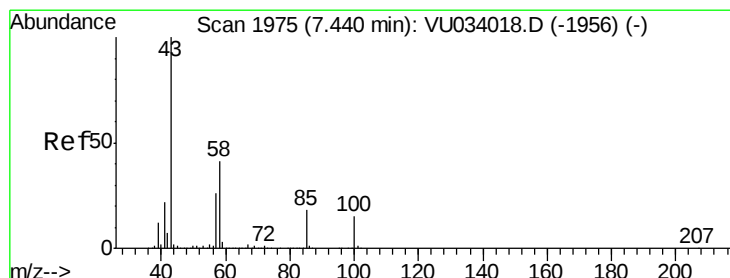
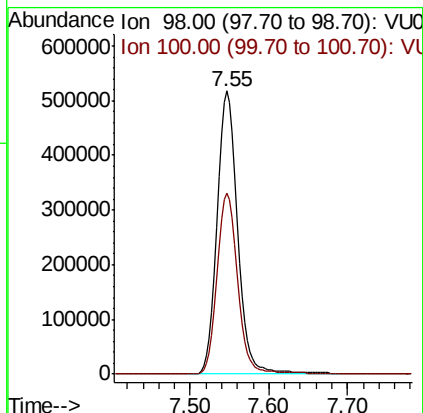
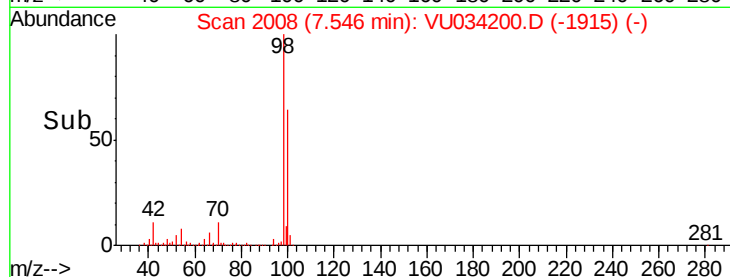
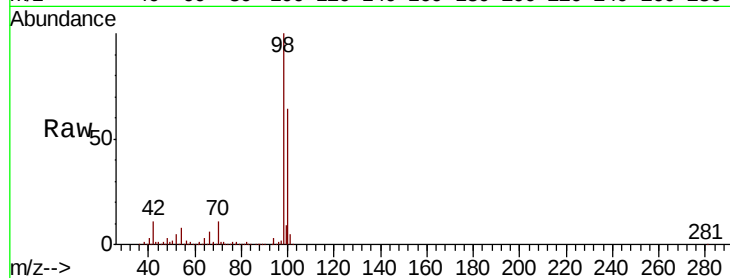
T16-17-C4-(0)

Tgt Ion: 98 Resp: 934461

Ion Ratio Lower Upper

98 100

100 64.2 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 8.753 ug/l

RT: 7.40 min Scan# 1964

Delta R.T. -0.04 min

Lab File: VU034200.D

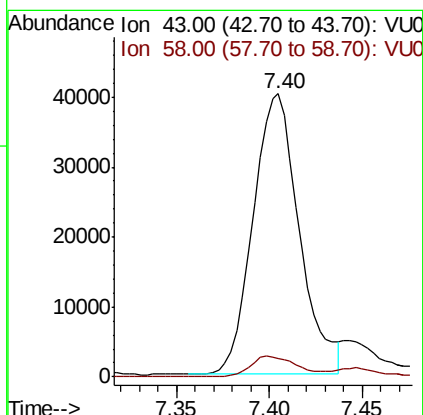
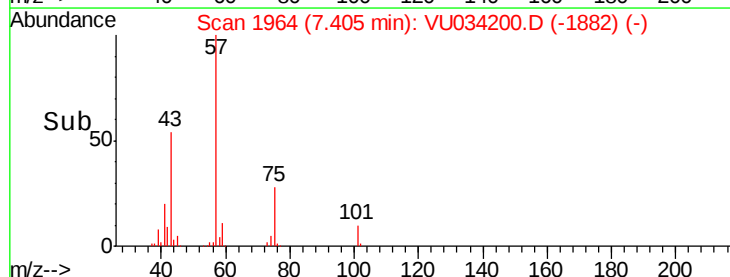
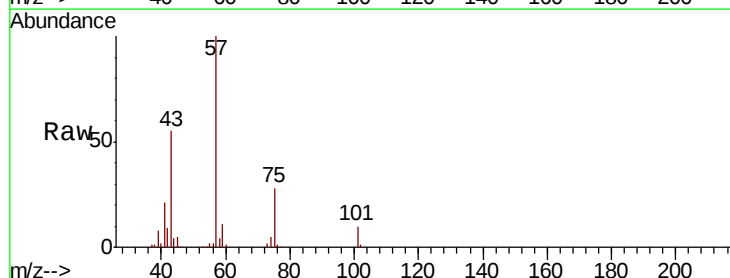
Acq: 02 Sep 2019 14:25

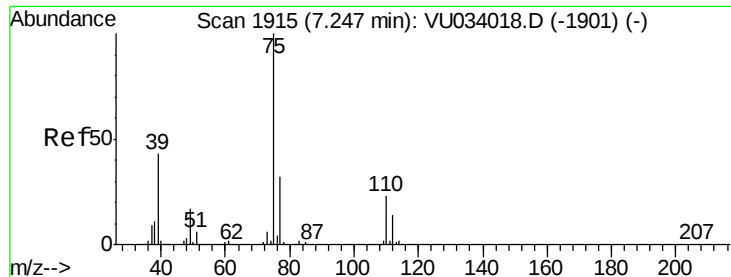
Tgt Ion: 43 Resp: 69620

Ion Ratio Lower Upper

43 100

58 7.4 32.2 48.4#



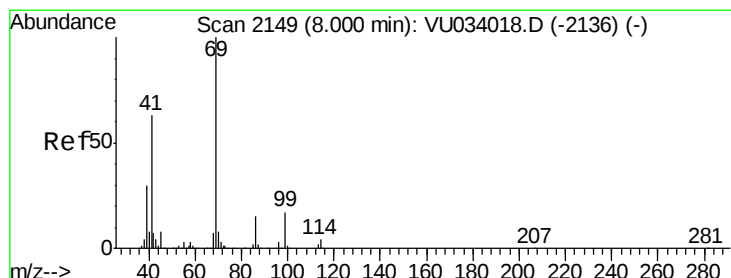
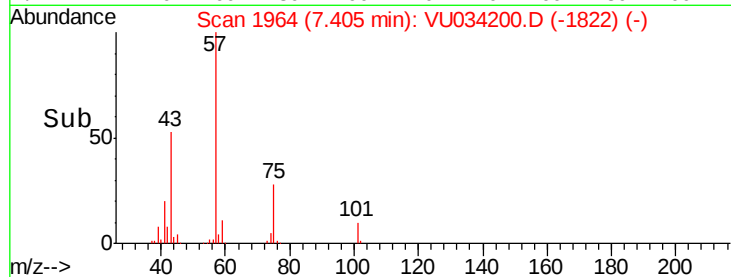
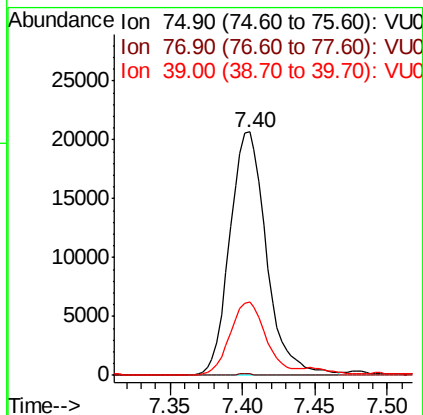
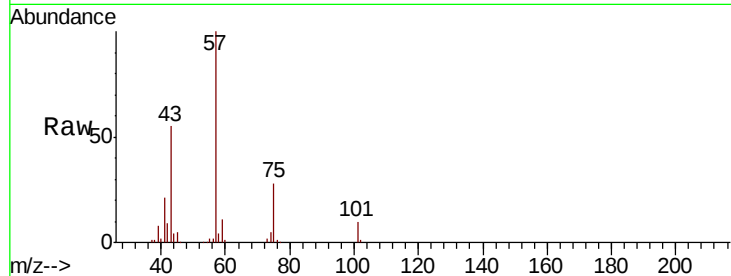


#54

cis-1,3-Dichloropropene
 Concen: 4.215 ug/l
 RT: 7.40 min Scan# 1964
 Delta R.T. 0.16 min
 Lab File: VU034200.D
 Acq: 02 Sep 2019 14:25

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-C4-(0)

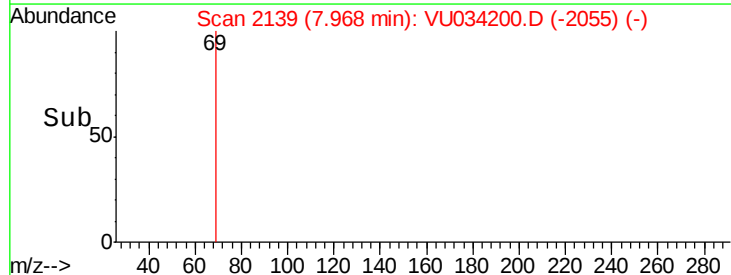
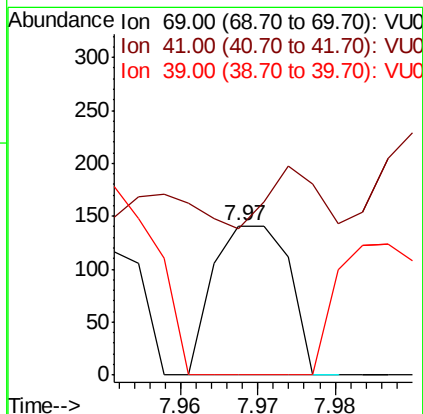
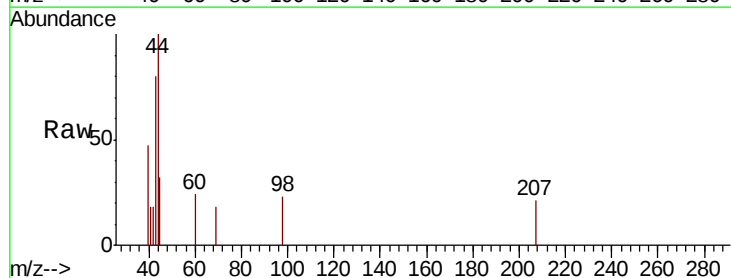
Tgt Ion: 75 Resp: 36265
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.2 37.8#
 39 29.9 34.6 51.8#

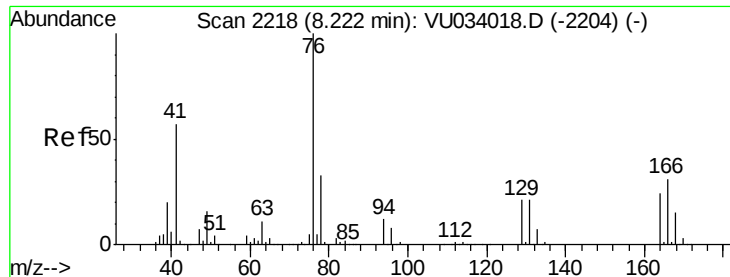


#56

Ethyl methacrylate
 Concen: 0.982 ug/l
 RT: 7.97 min Scan# 2139
 Delta R.T. -0.03 min
 Lab File: VU034200.D
 Acq: 02 Sep 2019 14:25

Tgt Ion: 69 Resp: 96
 Ion Ratio Lower Upper
 69 100
 41 0.0 50.7 76.1#
 39 0.0 24.2 36.2#

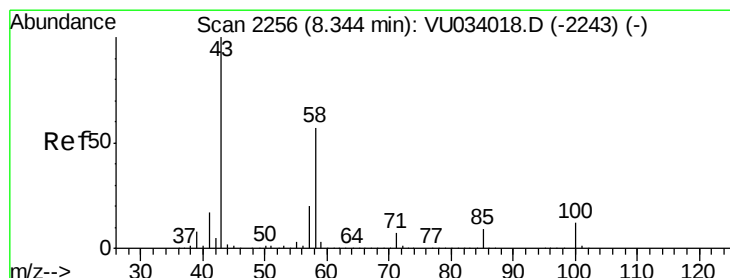
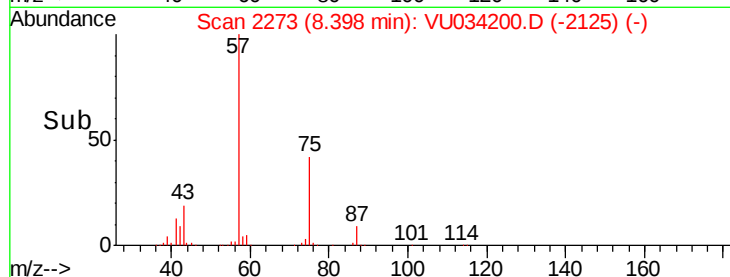
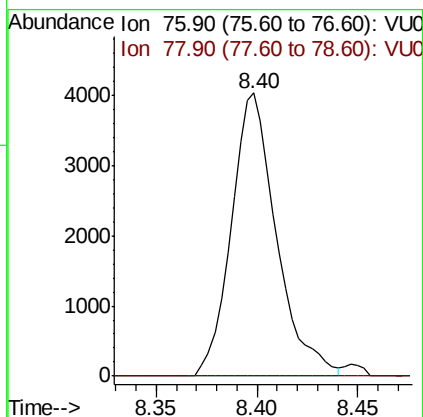
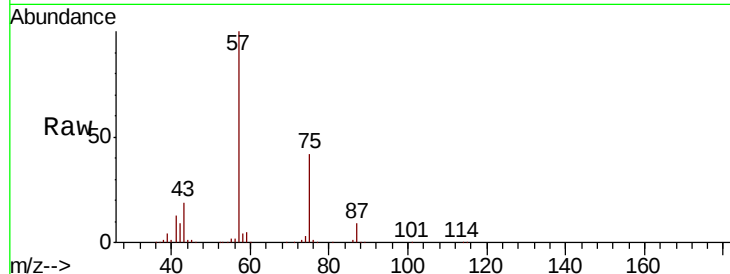




#57
 1,3-Dichloropropane
 Concen: 0.696 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.18 min
 Lab File: VU034200.D
 Acq: 02 Sep 2019 14:25

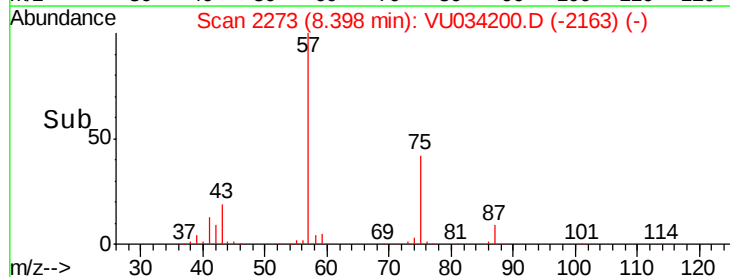
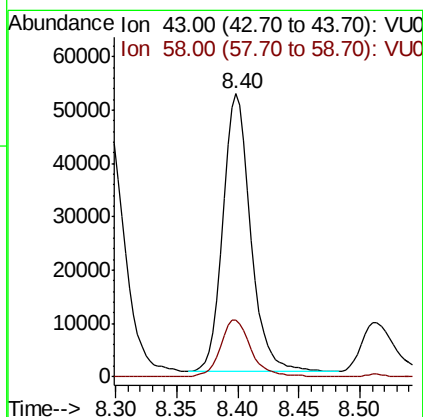
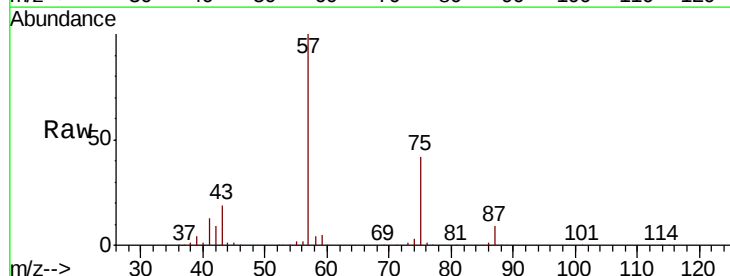
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-C4-(0)

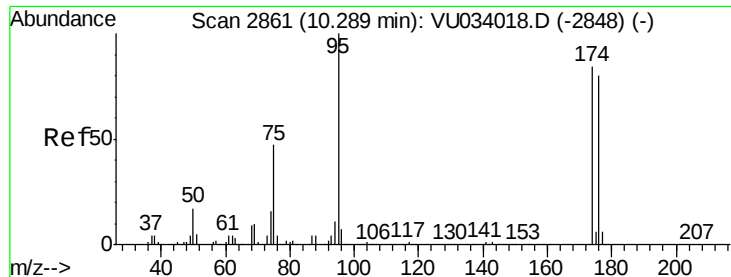
Tgt Ion: 76 Resp: 6294
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 13.942 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034200.D
 Acq: 02 Sep 2019 14:25

Tgt Ion: 43 Resp: 83712
 Ion Ratio Lower Upper
 43 100
 58 23.0 28.4 85.3#





#62

4-Bromofluorobenzene

Concen: 45.087 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VU034200.D

Acq: 02 Sep 2019 14:25

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C4-(0)

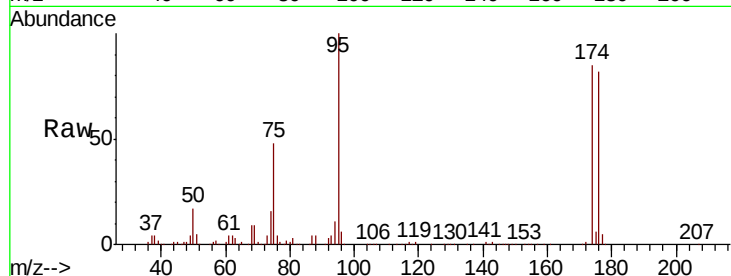
Tgt Ion: 95 Resp: 325543

Ion Ratio Lower Upper

95 100

174 84.9 0.0 168.8

176 80.8 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

250000

200000

150000

100000

50000

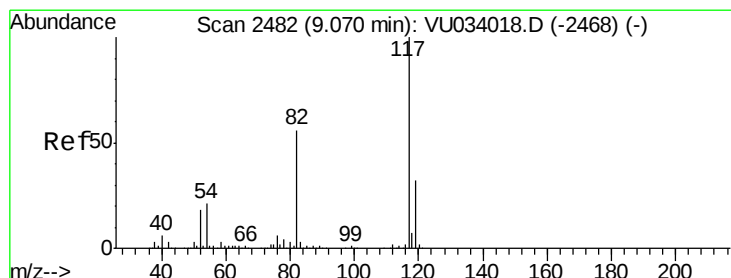
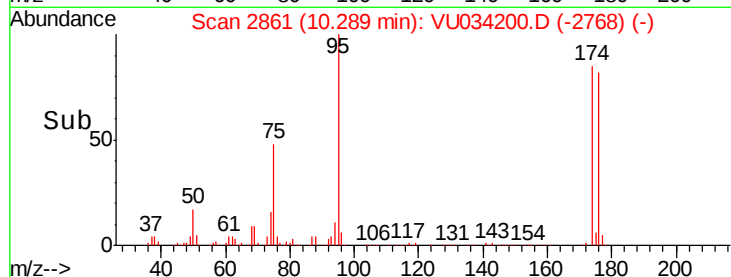
0

10.20

10.30

10.40

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. -0.00 min

Lab File: VU034200.D

Acq: 02 Sep 2019 14:25

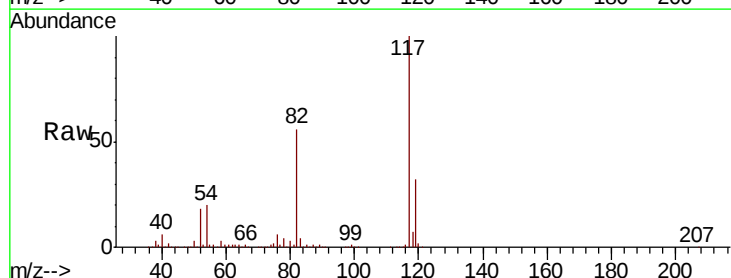
Tgt Ion: 117 Resp: 715086

Ion Ratio Lower Upper

117 100

82 56.2 45.1 67.7

119 32.5 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

500000

400000

300000

200000

100000

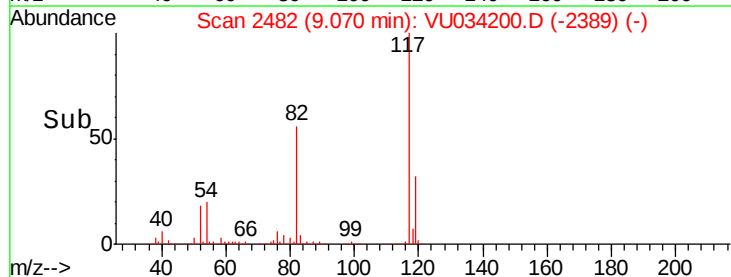
0

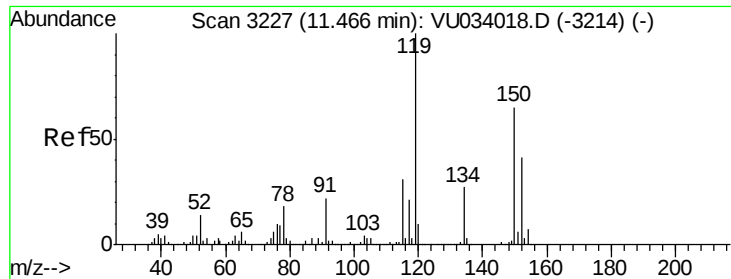
9.00

9.10

9.20

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034200.D

Acq: 02 Sep 2019 14:25

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C4-(0)

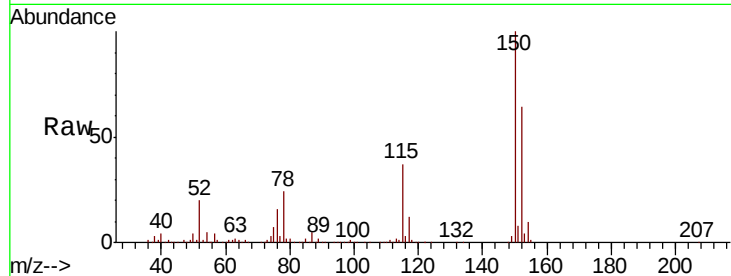
Tgt Ion:152 Resp: 340133

Ion Ratio Lower Upper

152 100

115 58.2 41.1 123.3

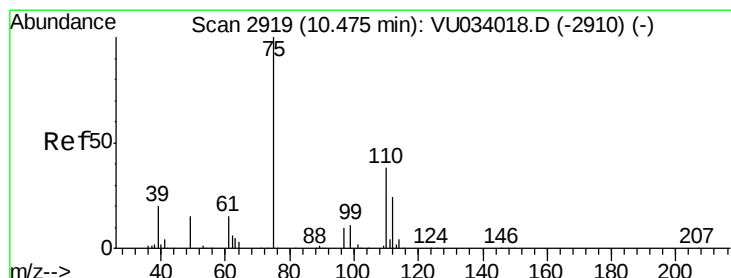
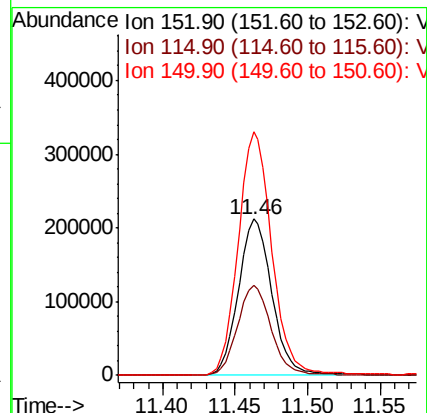
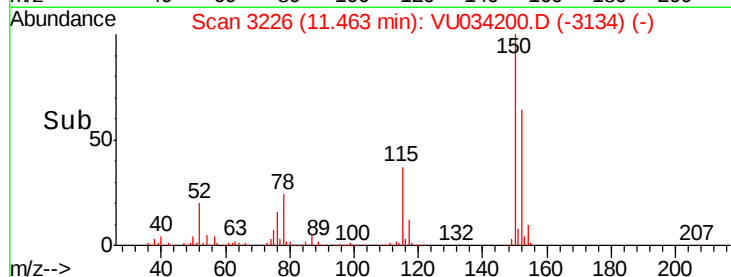
150 157.1 0.0 348.8



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: 20.413 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034200.D

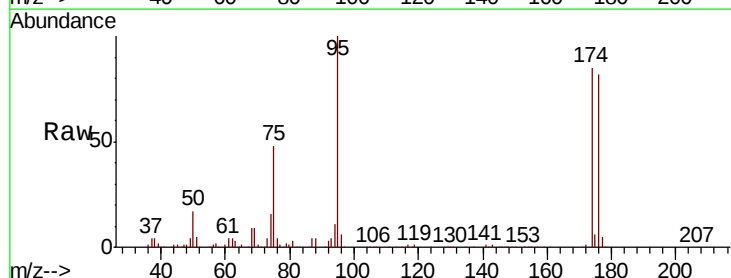
Acq: 02 Sep 2019 14:25

Tgt Ion: 75 Resp: 156483

Ion Ratio Lower Upper

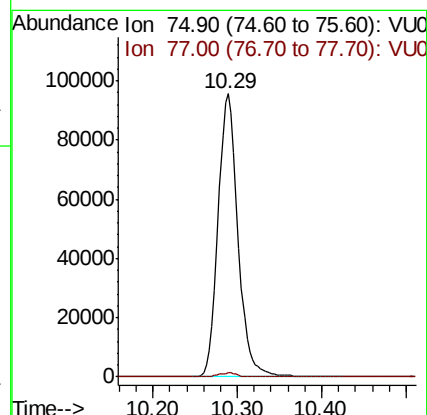
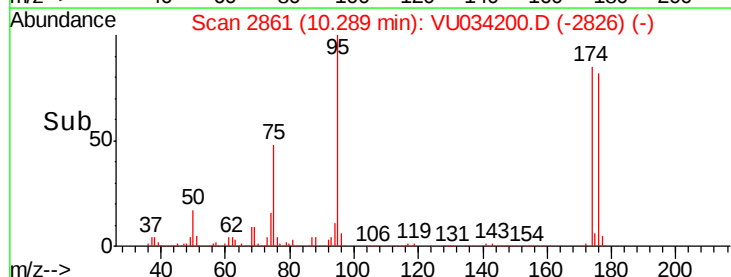
75 100

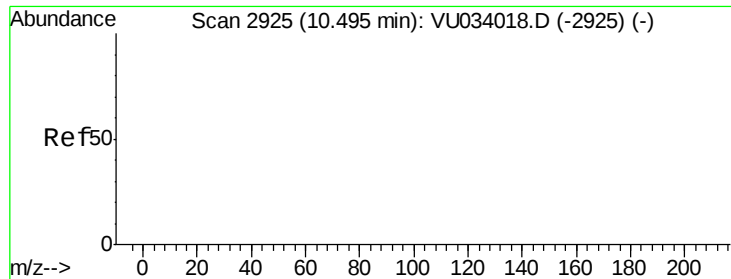
77 1.3 20.1 60.2#



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: 68.734 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034200.D

Acq: 02 Sep 2019 14:25

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C4-(0)

Tgt Ion: 75 Resp: 156483

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0

