

Data File : VU034231.D
Acq On : 03 Sep 2019 16:58
Operator : JC/SP
Sample : K4546-24
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T3-S-C2-(2.5)

Quant Time: Sep 04 04:25:45 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	437808	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	709297	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	705173	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	344678	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	271591	48.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.82%	
35) Dibromofluoromethane	4.86	113	230629	46.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.76%	
50) Toluene-d8	7.55	98	918475	49.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.72%	
62) 4-Bromofluorobenzene	10.29	95	322660	45.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.06%	

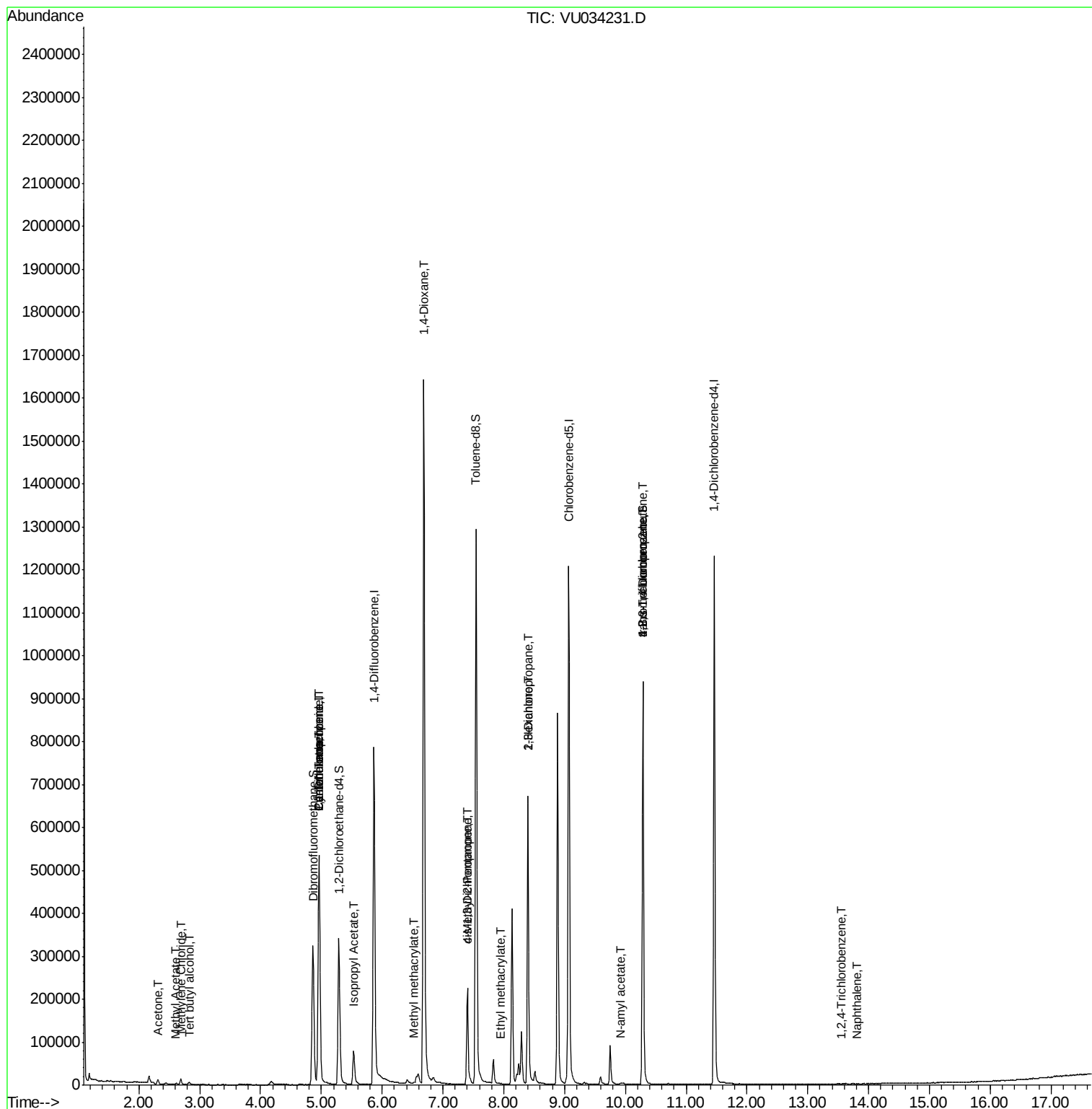
Target Compounds			Qvalue			
3) Chloromethane	1.32	50	499	Below Cal	#	86
5) Bromomethane	1.63	94	496	Below Cal	#	75
11) Tert butyl alcohol	2.82	59	3769	2.913	ug/l #	73
16) Acetone	2.31	43	11257	3.933	ug/l	97
18) Methyl Acetate	2.61	43	3596	0.486	ug/l	98
20) Methylene Chloride	2.69	84	6243	1.152	ug/l	92
31) Cyclohexane	4.96	56	7597	0.907	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31418	4.683	ug/l #	49
38) Carbon Tetrachloride	4.96	117	40641	6.276	ug/l #	16
43) Isopropyl Acetate	5.53	43	93025	8.139	ug/l	99
48) Methyl methacrylate	6.53	41	5137	0.931	ug/l #	14
49) 1,4-Dioxane	6.69	88	206	1.491	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	86772	10.993	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	41967	4.915	ug/l #	61
56) Ethyl methacrylate	7.96	69	140	0.987	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	7012	0.781	ug/l #	42
59) 2-Hexanone	8.40	43	93319	15.661	ug/l #	52
74) N-amyl acetate	9.92	43	3459	0.355	ug/l #	42
76) 1,2,3-Trichloropropane	10.29	75	154341	19.868	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	154341	66.899	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.55	180	21	1.117	ug/l #	12
95) Naphthalene	13.80	128	19	1.791	ug/l #	70

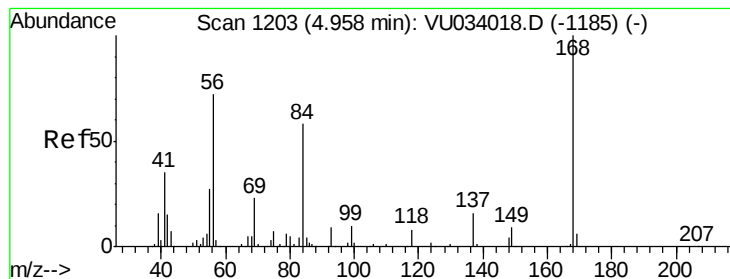
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034231.D

Acq: 03 Sep 2019 16:58

Instrument :

MSVOA_U

ClientSampleId :

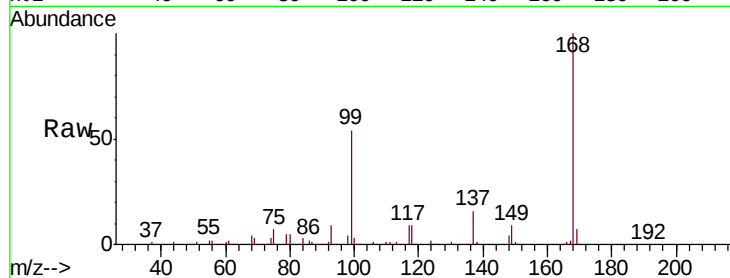
T3-S-C2-(2.5)

Tgt Ion:168 Resp: 437808

Ion Ratio Lower Upper

168 100

99 54.0 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

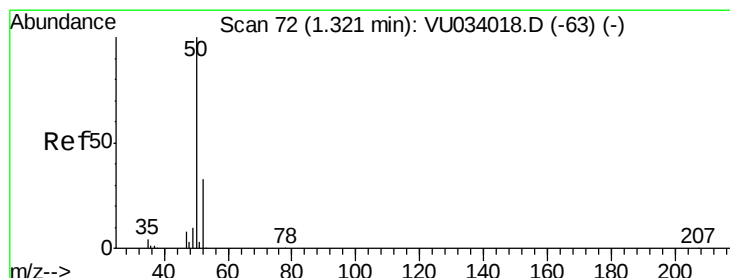
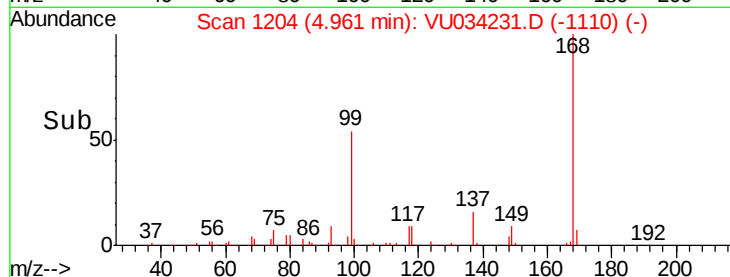
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034231.D

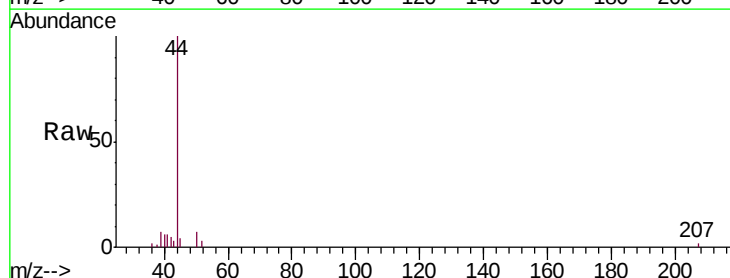
Acq: 03 Sep 2019 16:58

Tgt Ion: 50 Resp: 499

Ion Ratio Lower Upper

50 100

52 40.8 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) (-)

1.32

500

400

300

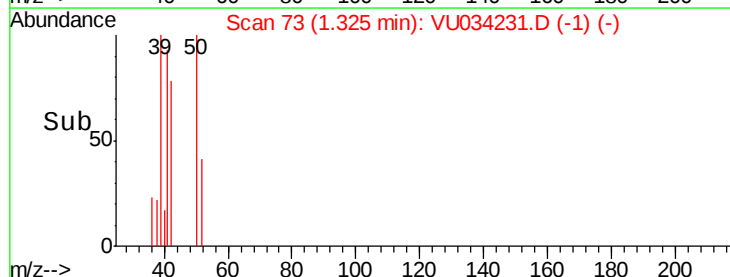
200

100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.04 min

Lab File: VU034231.D

Acq: 03 Sep 2019 16:58

Instrument :

MSVOA_U

ClientSampleId :

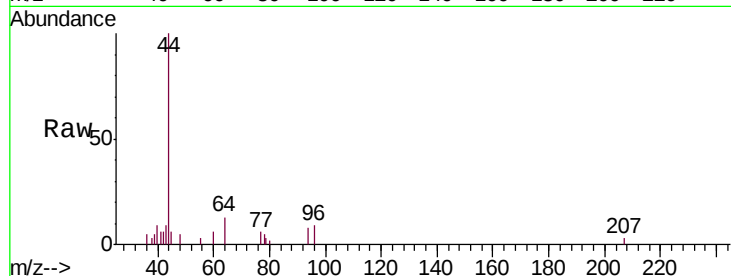
T3-S-C2-(2.5)

Tgt Ion: 94 Resp: 496

Ion Ratio Lower Upper

94 100

96 120.2 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034231.D (-169) (-)

Ion 95.90 (95.60 to 96.60): VU034231.D (-169) (-)

1.63

400

300

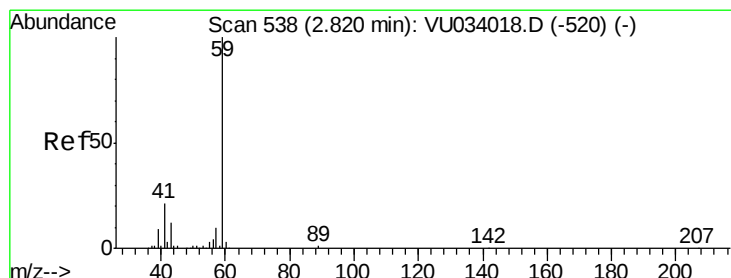
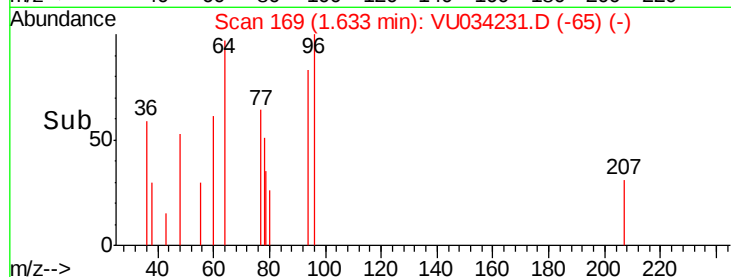
200

100

0

1.60 1.62 1.64 1.66

Time-->



#11

Tert butyl alcohol

Concen: 2.913 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034231.D

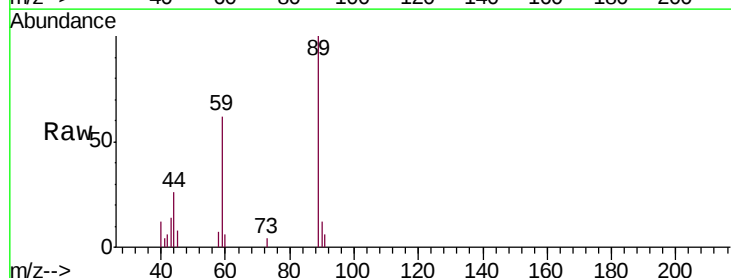
Acq: 03 Sep 2019 16:58

Tgt Ion: 59 Resp: 3769

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034231.D (-539) (-)

Ion 57.00 (56.70 to 57.70): VU034231.D (-539) (-)

2000

1500

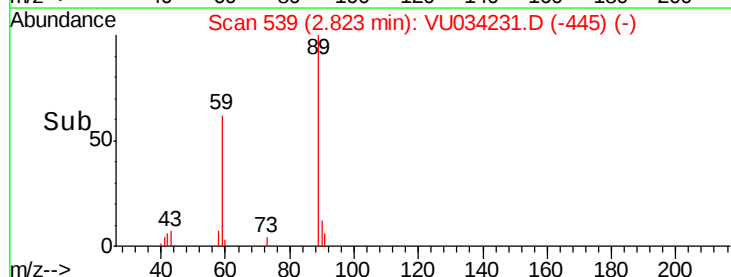
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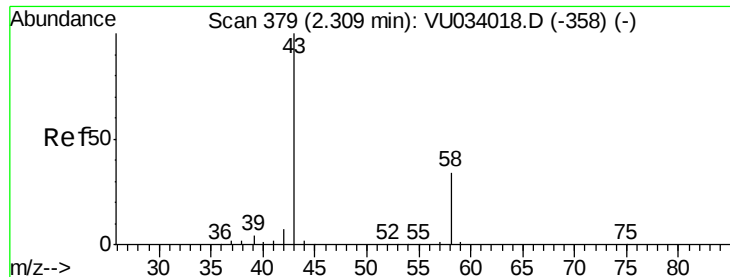
500

0

2.75 2.80 2.85

Time-->





#16

Acetone

Concen: 3.933 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034231.D

Acq: 03 Sep 2019 16:58

Instrument :

MSVOA_U

ClientSampleId :

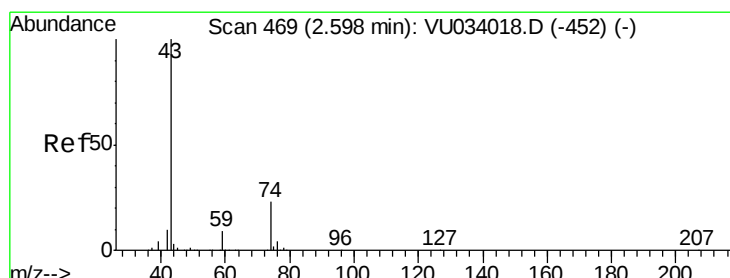
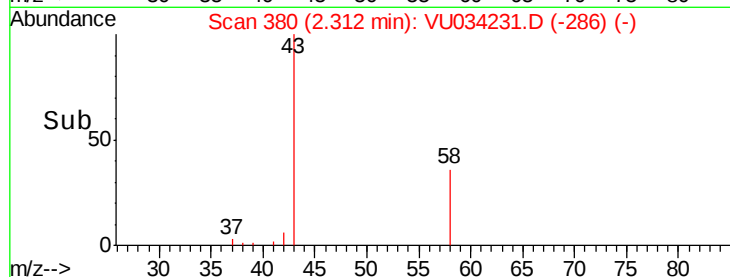
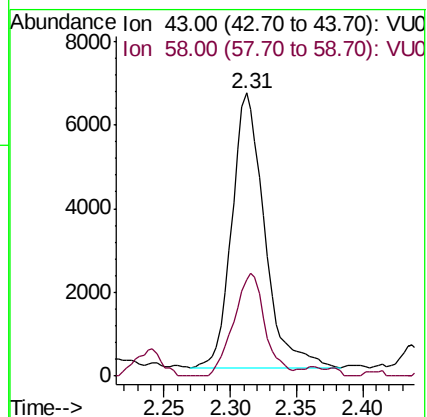
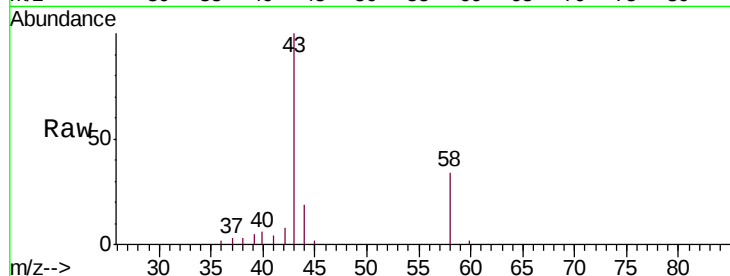
T3-S-C2-(2.5)

Tgt Ion: 43 Resp: 11257

Ion Ratio Lower Upper

43 100

58 35.0 26.8 40.2



#18

Methyl Acetate

Concen: 0.486 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.02 min

Lab File: VU034231.D

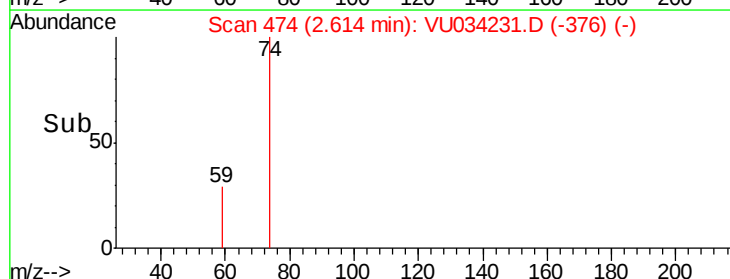
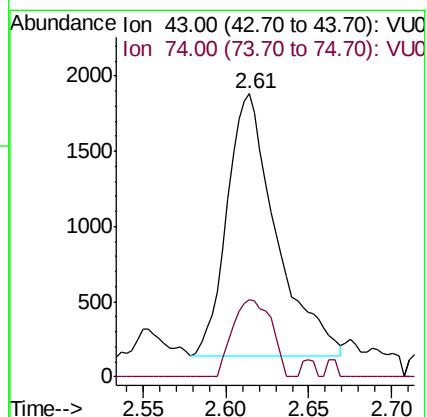
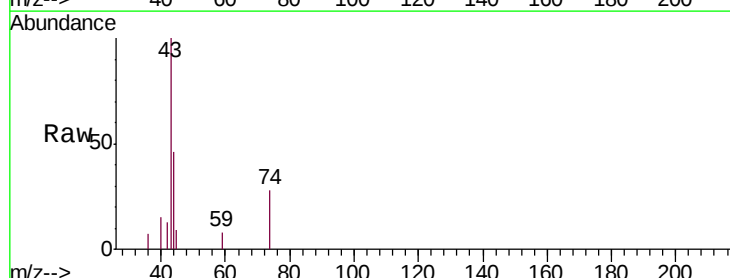
Acq: 03 Sep 2019 16:58

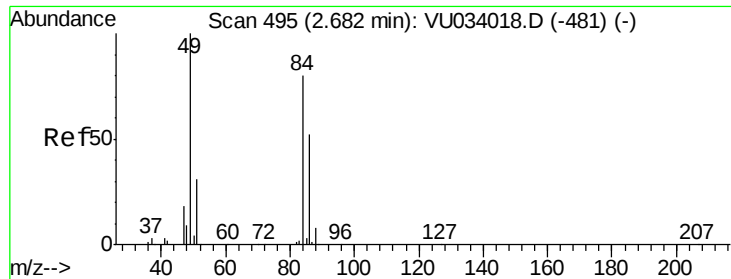
Tgt Ion: 43 Resp: 3596

Ion Ratio Lower Upper

43 100

74 23.2 19.2 28.8

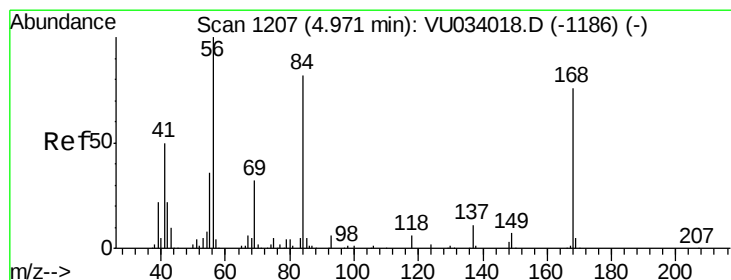
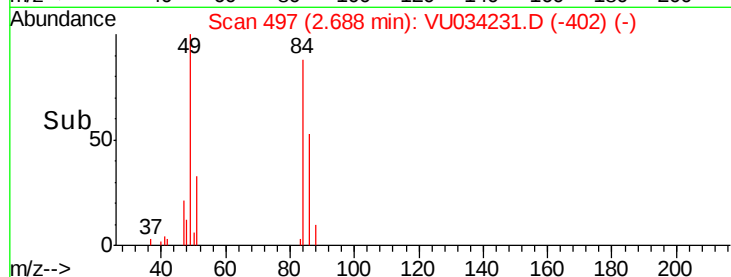
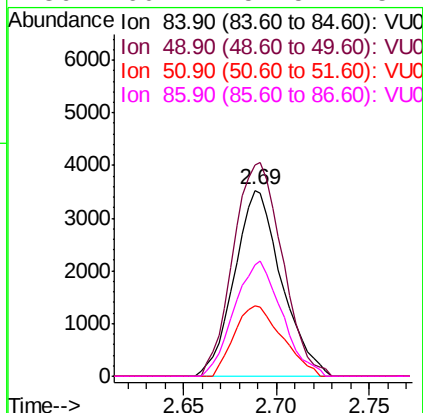
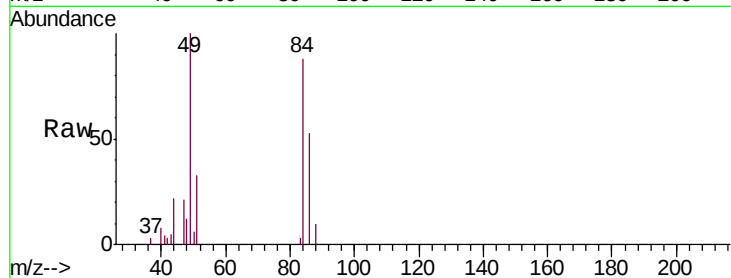




#20
Methylene Chloride
Concen: 1.152 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034231.D
Acq: 03 Sep 2019 16:58

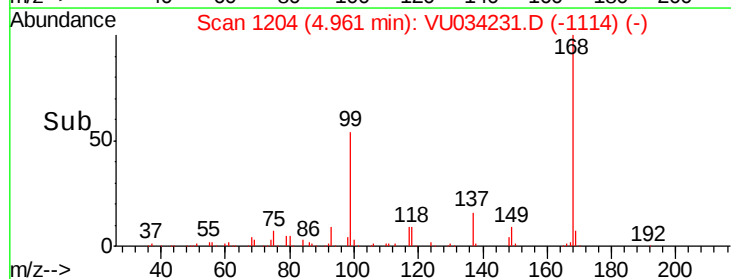
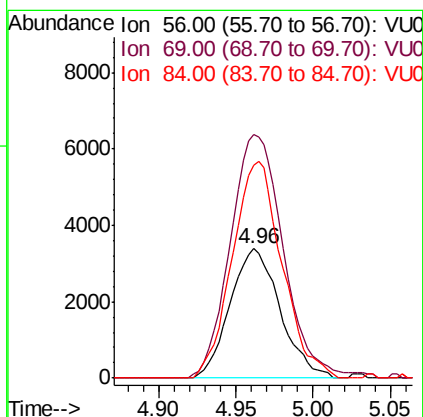
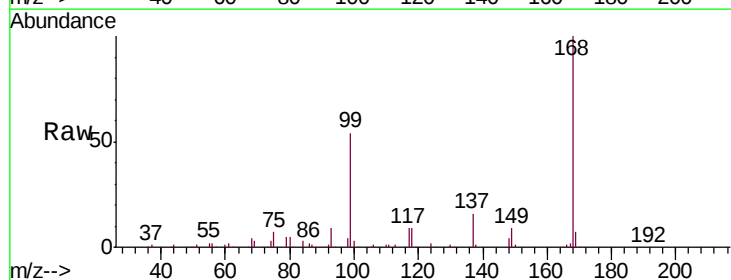
Instrument :
MSVOA_U
ClientSampleId :
T3-S-C2-(2.5)

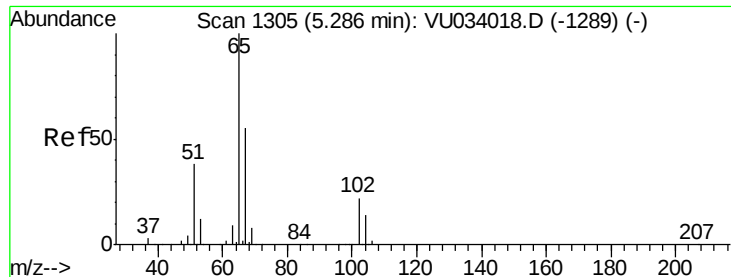
Tgt Ion:	84	Resp:	6243
Ion	Ratio	Lower	Upper
84	100		
49	113.5	100.2	150.4
51	37.7	30.8	46.2
86	60.1	52.5	78.7



#31
Cyclohexane
Concen: 0.907 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034231.D
Acq: 03 Sep 2019 16:58

Tgt Ion:	56	Resp:	7597
Ion	Ratio	Lower	Upper
56	100		
69	187.8	25.4	38.0#
84	164.6	65.8	98.8#





#33

1,2-Dichloroethane-d4

Concen: 48.414 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034231.D

Acq: 03 Sep 2019 16:58

Instrument :

MSVOA_U

ClientSampleId :

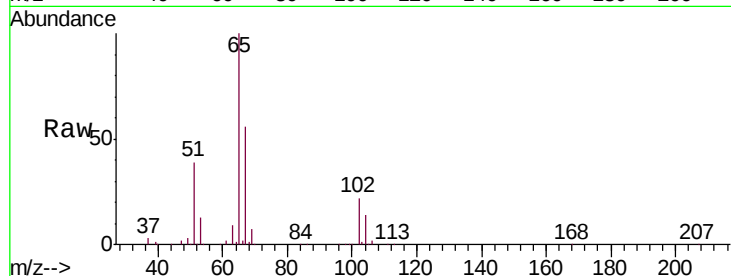
T3-S-C2-(2.5)

Tgt Ion: 65 Resp: 271591

Ion Ratio Lower Upper

65 100

67 55.2 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034018.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034018.D (-1289) (-)

5.29

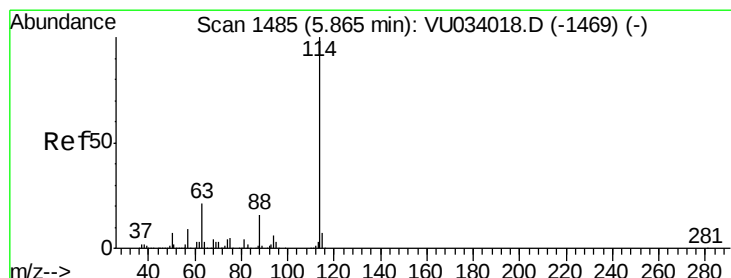
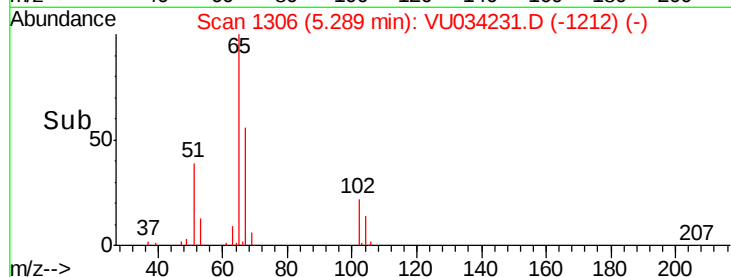
100000

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: VU034231.D

Acq: 03 Sep 2019 16:58

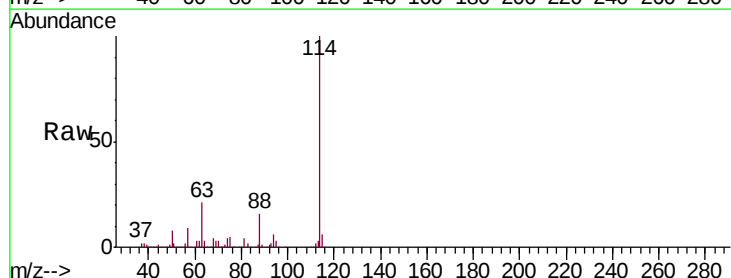
Tgt Ion: 114 Resp: 709297

Ion Ratio Lower Upper

114 100

63 21.0 0.0 42.0

88 15.8 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): VU034018.D (-1469) (-)

Ion 63.00 (62.70 to 63.70): VU034018.D (-1469) (-)

Ion 87.90 (87.60 to 88.60): VU034018.D (-1469) (-)

5.87

400000

300000

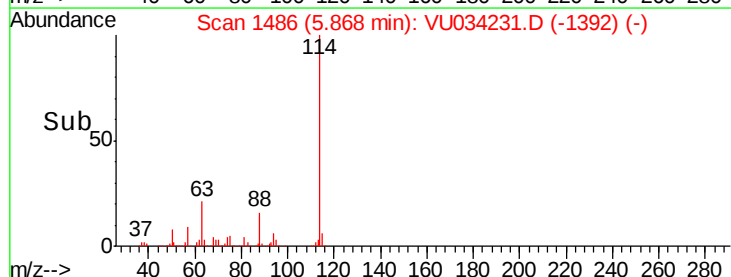
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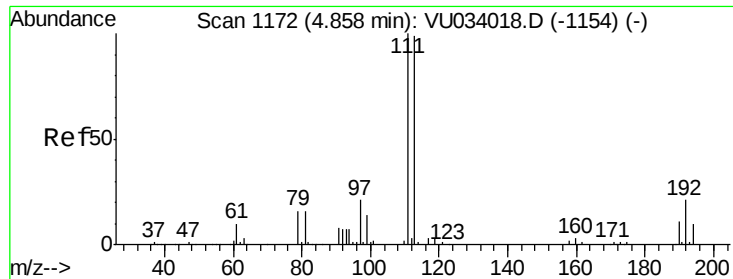
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0

Time-->

5.80 5.90 6.00 6.10

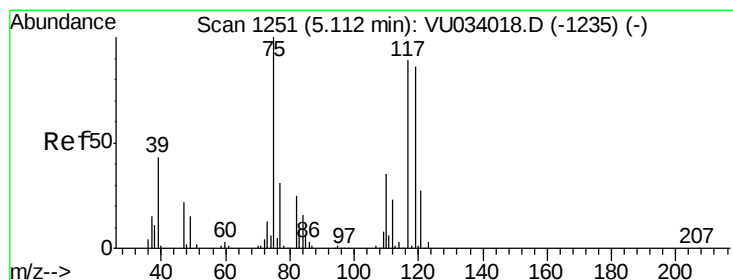
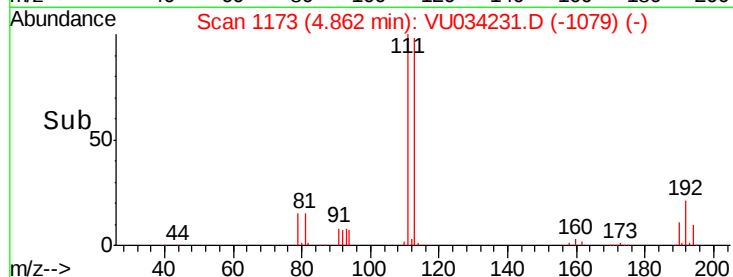
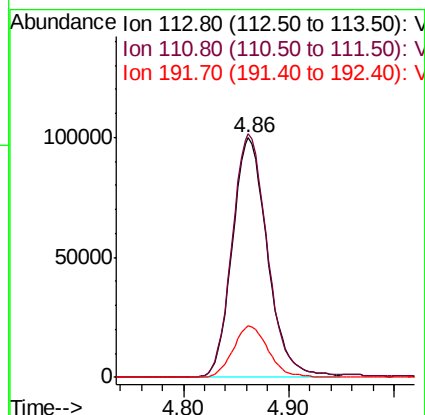
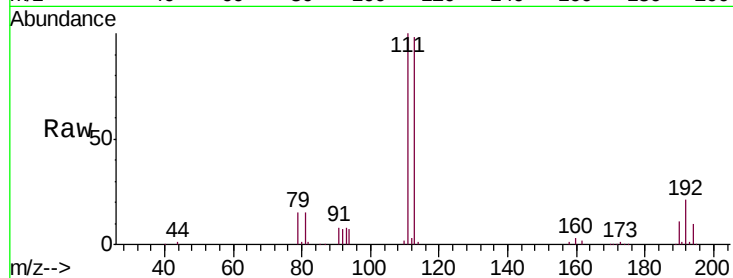




#35
 Dibromofluoromethane
 Concen: 46.879 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034231.D
 Acq: 03 Sep 2019 16:58

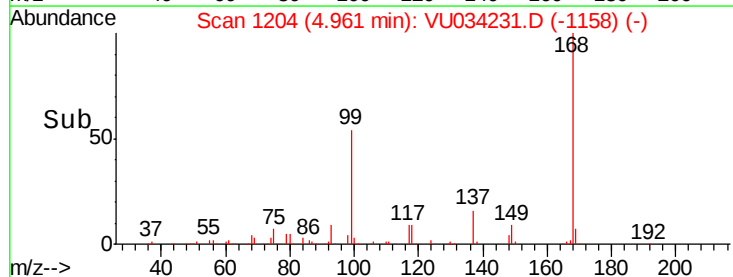
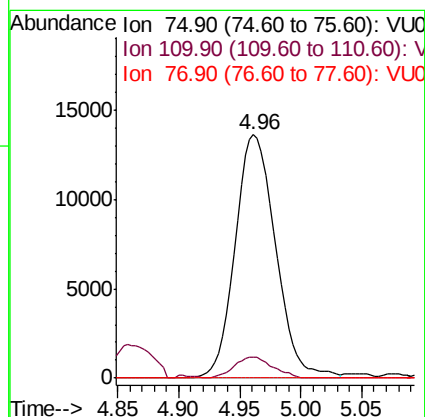
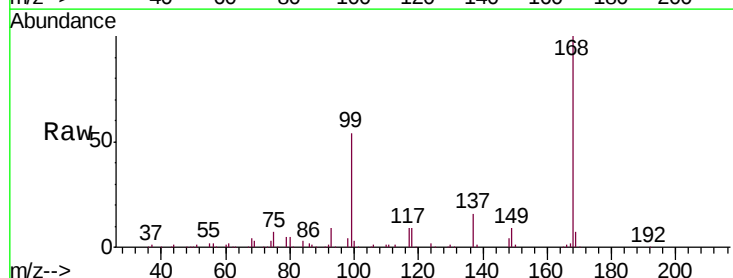
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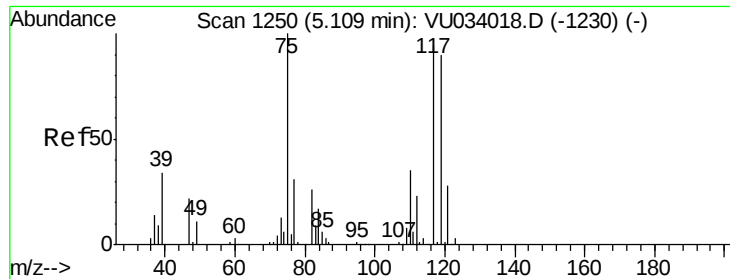
Tgt Ion: 113 Resp: 230629
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.7 122.5
 192 21.5 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.683 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034231.D
 Acq: 03 Sep 2019 16:58

Tgt Ion: 75 Resp: 31418
 Ion Ratio Lower Upper
 75 100
 110 8.3 17.8 53.5#
 77 0.0 25.0 37.4#

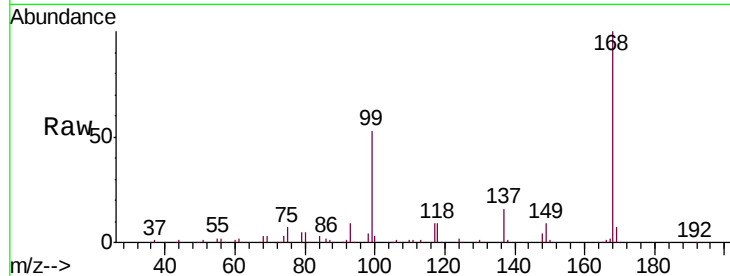




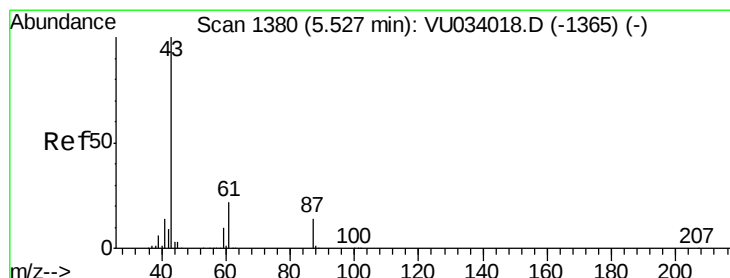
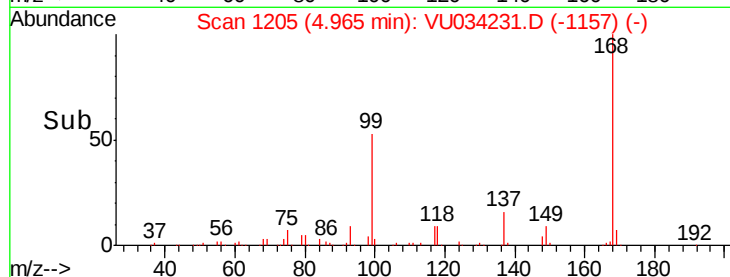
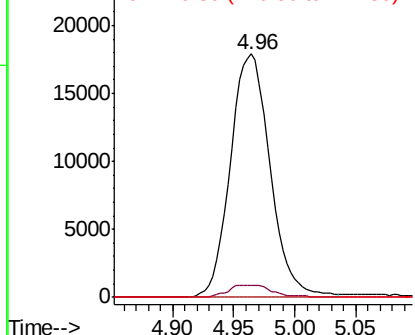
#38
Carbon Tetrachloride
Concen: 6.276 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.14 min
Lab File: VU034231.D
Acq: 03 Sep 2019 16:58

Instrument :
MSVOA_U
ClientSampleId :
T3-S-C2-(2.5)

Tgt Ion:117 Resp: 40641
Ion Ratio Lower Upper
117 100
119 4.7 77.0 115.4#
121 0.0 23.9 35.9#

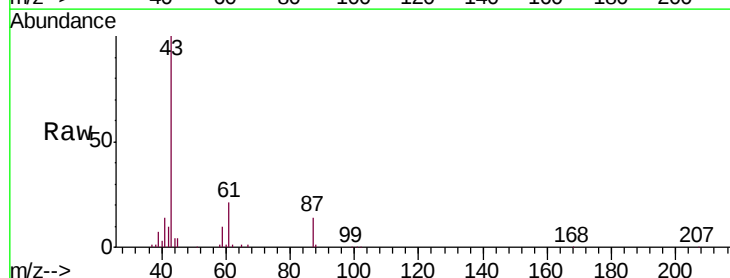


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

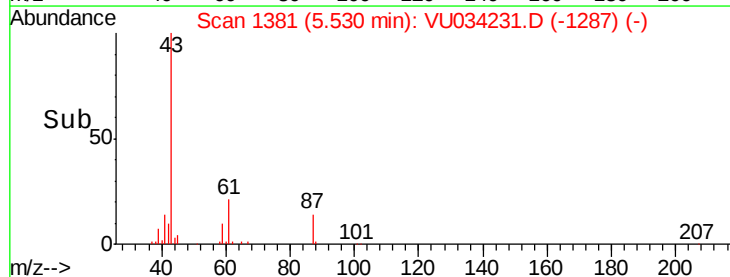
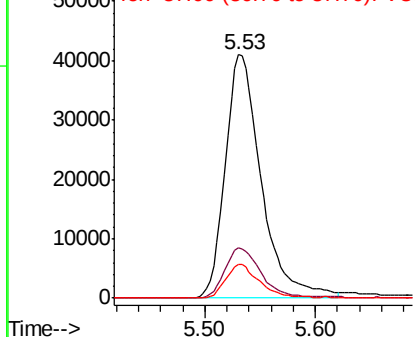


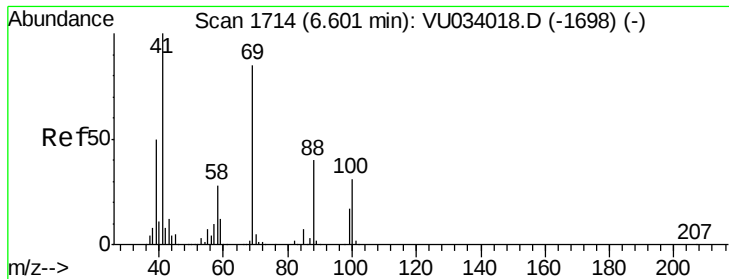
#43
Isopropyl Acetate
Concen: 8.139 ug/l
RT: 5.53 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VU034231.D
Acq: 03 Sep 2019 16:58

Tgt Ion: 43 Resp: 93025
Ion Ratio Lower Upper
43 100
61 20.7 17.2 25.8
87 13.1 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

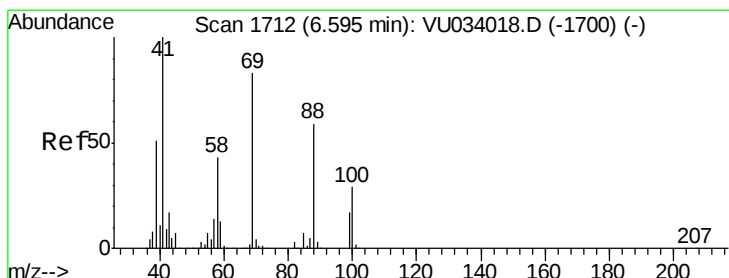
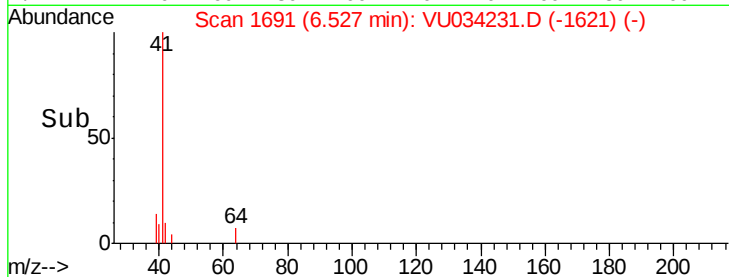
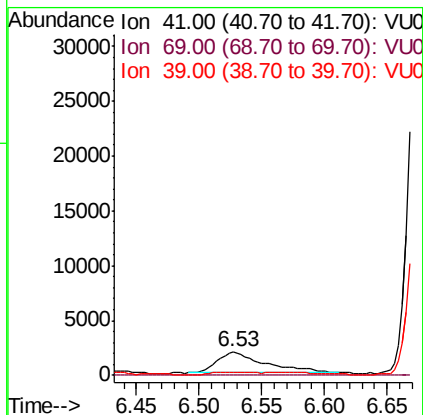
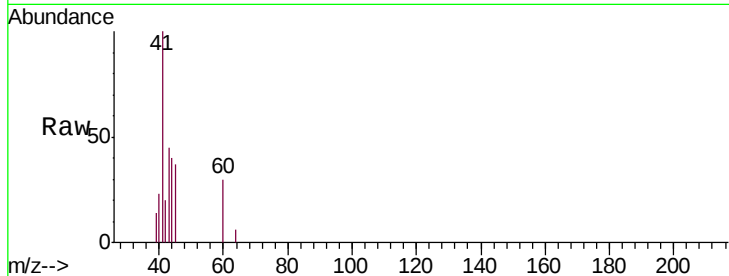




#48
Methyl methacrylate
Concen: 0.931 ug/l
RT: 6.53 min Scan# 1691
Delta R.T. -0.07 min
Lab File: VU034231.D
Acq: 03 Sep 2019 16:58

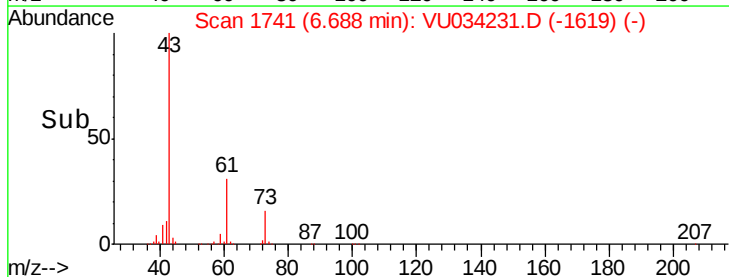
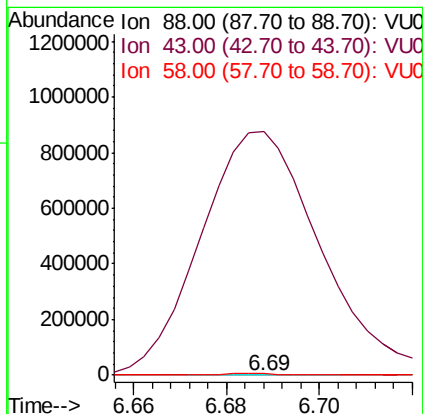
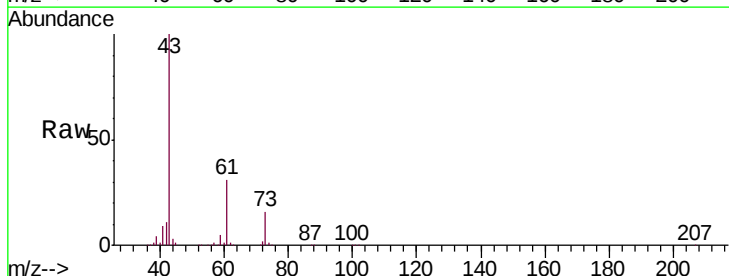
Instrument :
MSVOA_U
ClientSampleId :
T3-S-C2-(2.5)

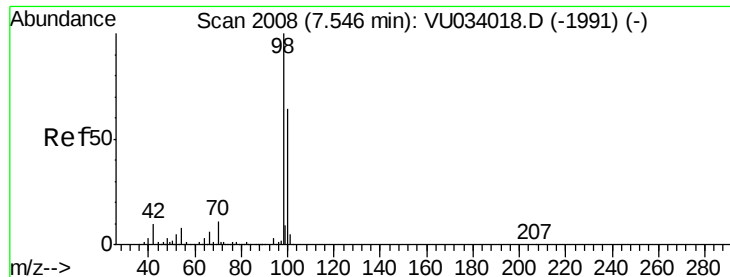
Tgt Ion: 41 Resp: 5137
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#49
1,4-Dioxane
Concen: 1.491 ug/l
RT: 6.69 min Scan# 1741
Delta R.T. 0.09 min
Lab File: VU034231.D
Acq: 03 Sep 2019 16:58

Tgt Ion: 88 Resp: 206
Ion Ratio Lower Upper
88 100
43 792225.7 24.8 37.2#
58 4153.4 59.3 88.9#





#50

Toluene-d8

Concen: 49.860 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034231.D

Acq: 03 Sep 2019 16:58

Instrument :

MSVOA_U

ClientSampleId :

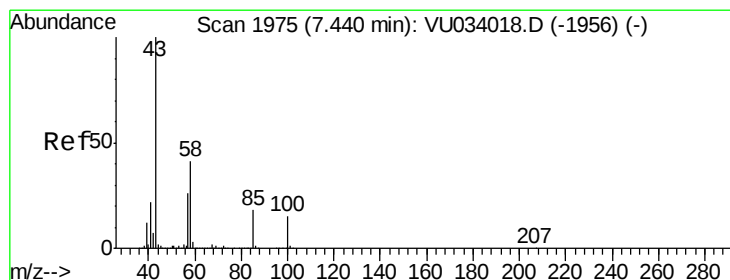
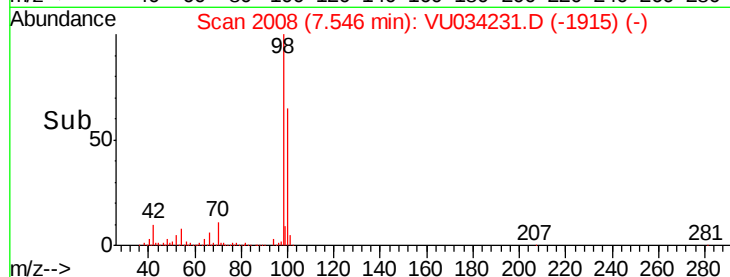
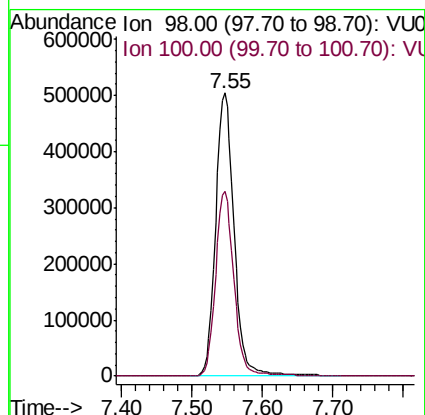
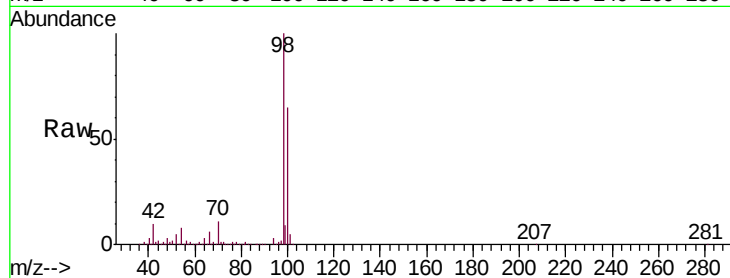
T3-S-C2-(2.5)

Tgt Ion: 98 Resp: 918475

Ion Ratio Lower Upper

98 100

100 64.8 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 10.993 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034231.D

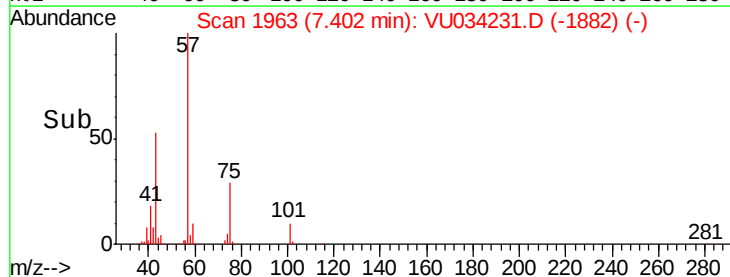
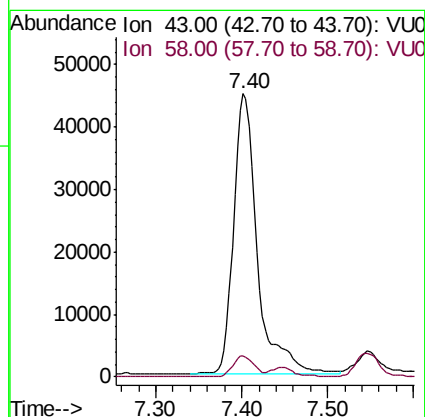
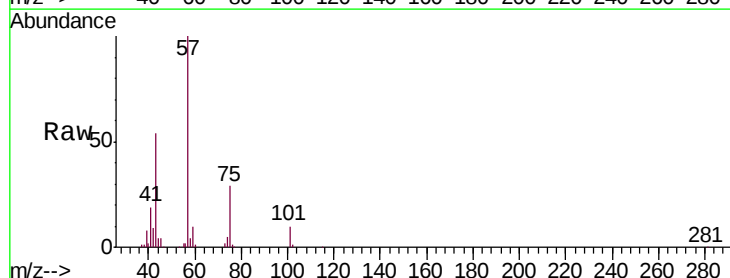
Acq: 03 Sep 2019 16:58

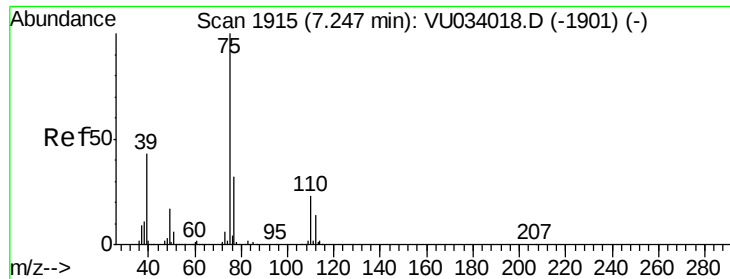
Tgt Ion: 43 Resp: 86772

Ion Ratio Lower Upper

43 100

58 6.6 32.2 48.4#



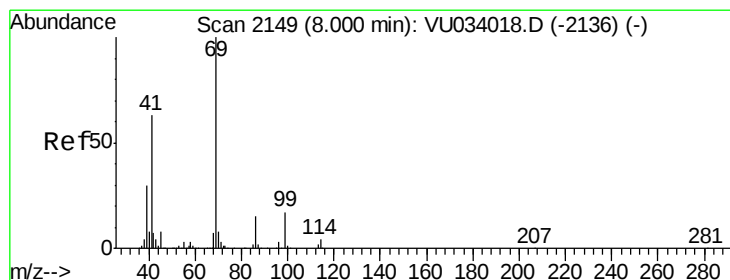
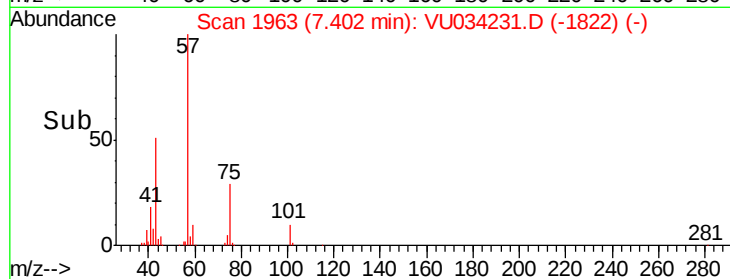
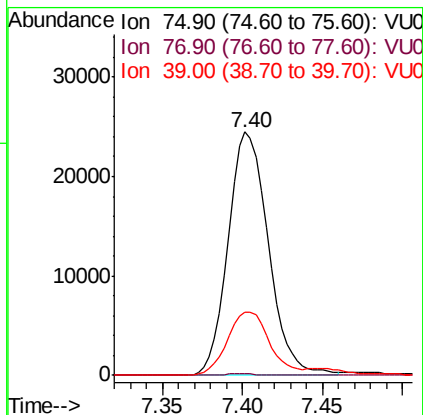
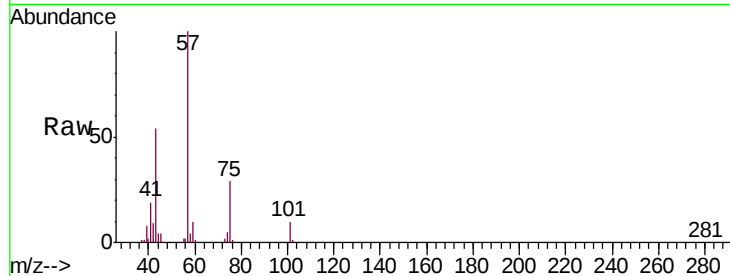


#54

cis-1,3-Dichloropropene
 Concen: 4.915 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034231.D
 Acq: 03 Sep 2019 16:58

Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C2-(2.5)

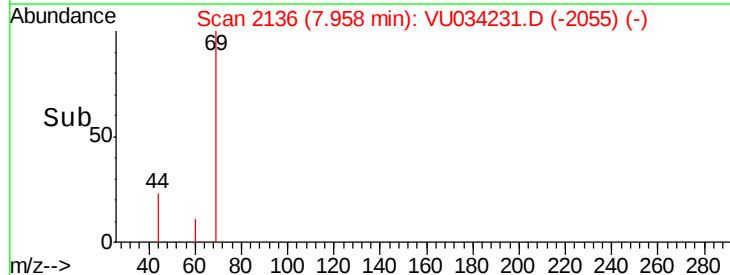
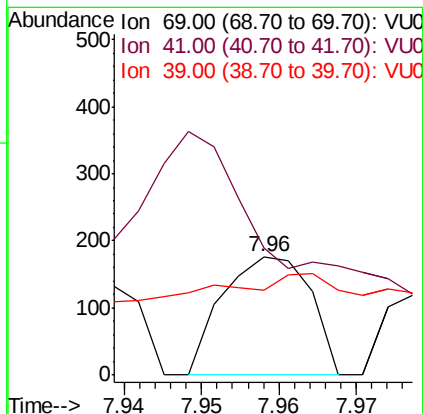
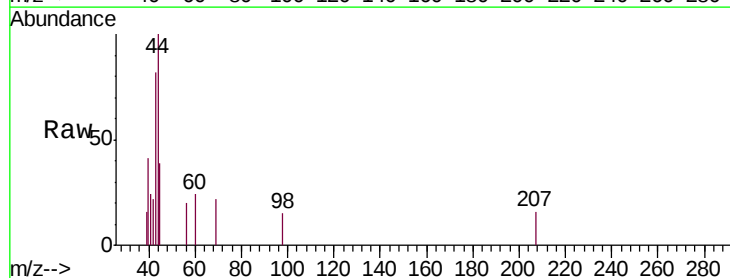
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.6	25.2	37.8#
39	26.1	34.6	51.8#

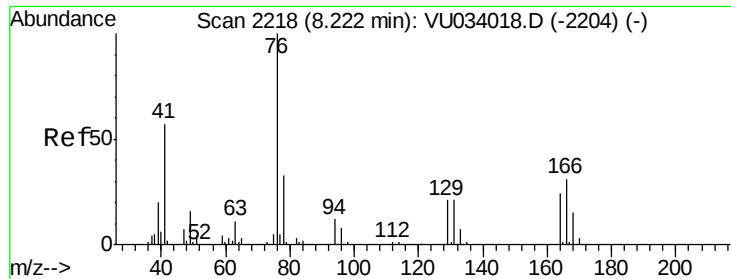


#56

Ethyl methacrylate
 Concen: 0.987 ug/l
 RT: 7.96 min Scan# 2136
 Delta R.T. -0.04 min
 Lab File: VU034231.D
 Acq: 03 Sep 2019 16:58

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

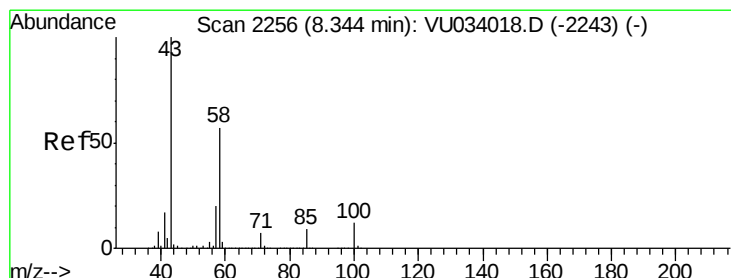
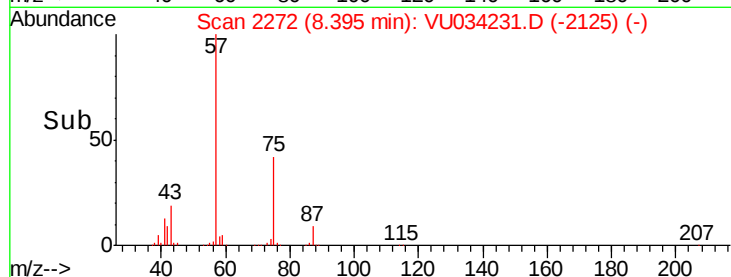
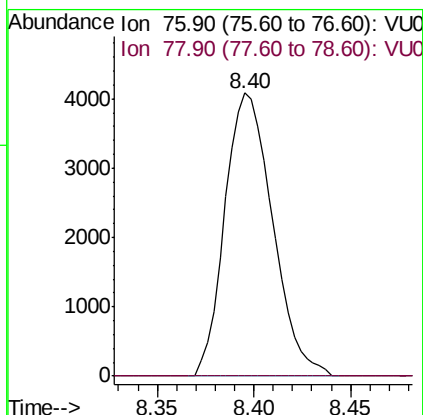
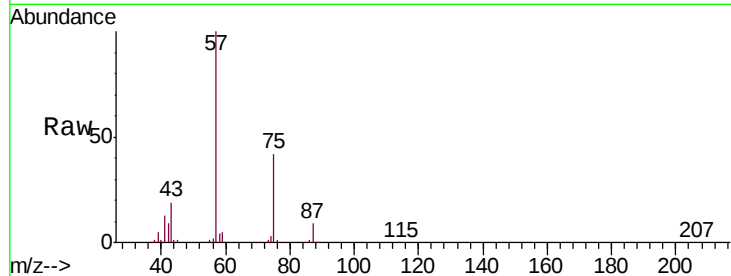




#57
 1,3-Dichloropropane
 Concen: 0.781 ug/l
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.17 min
 Lab File: VU034231.D
 Acq: 03 Sep 2019 16:58

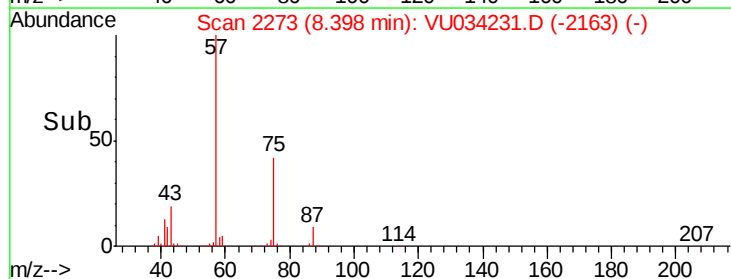
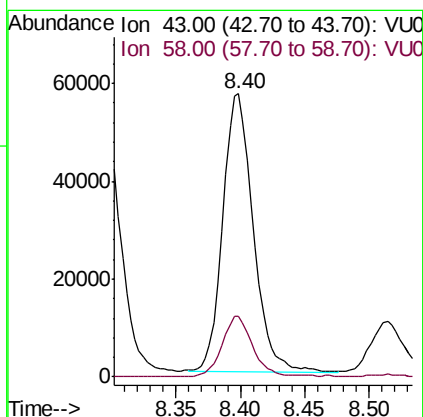
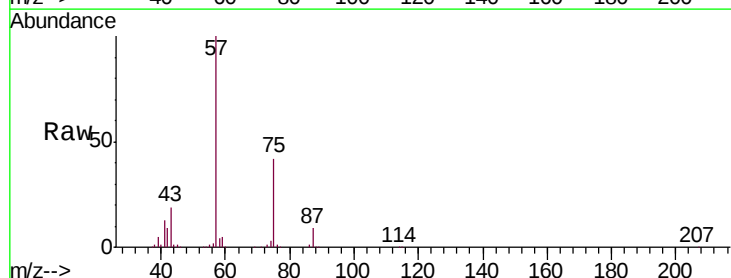
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C2-(2.5)

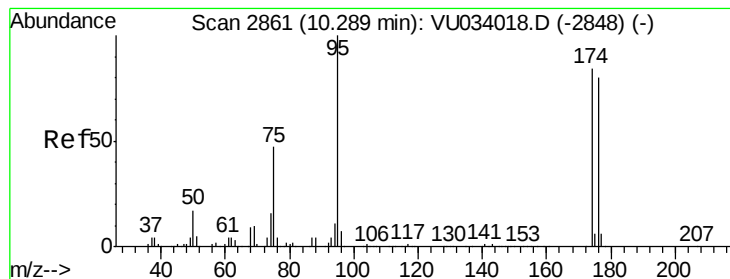
Tgt Ion: 76 Resp: 7012
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 15.661 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034231.D
 Acq: 03 Sep 2019 16:58

Tgt Ion: 43 Resp: 93319
 Ion Ratio Lower Upper
 43 100
 58 21.9 28.4 85.3#





#62

4-Bromofluorobenzene

Concen: 45.029 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034231.D

Acq: 03 Sep 2019 16:58

Instrument :

MSVOA_U

ClientSampleId :

T3-S-C2-(2.5)

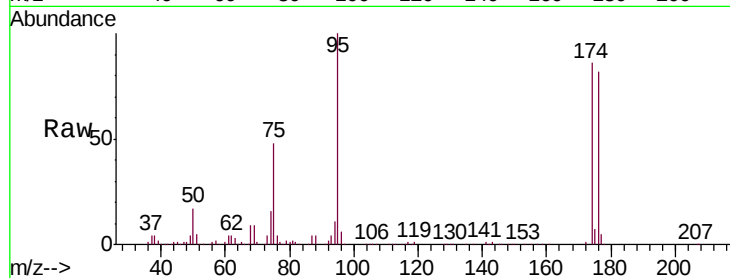
Tgt Ion: 95 Resp: 322660

Ion Ratio Lower Upper

95 100

174 85.5 0.0 168.8

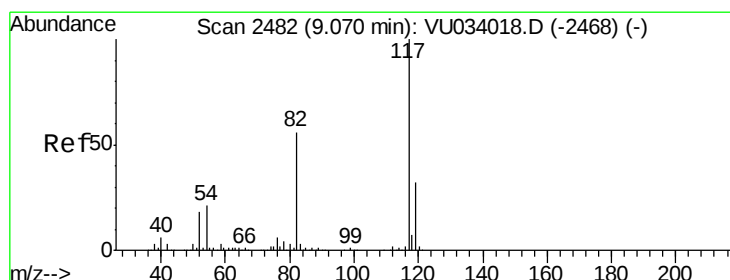
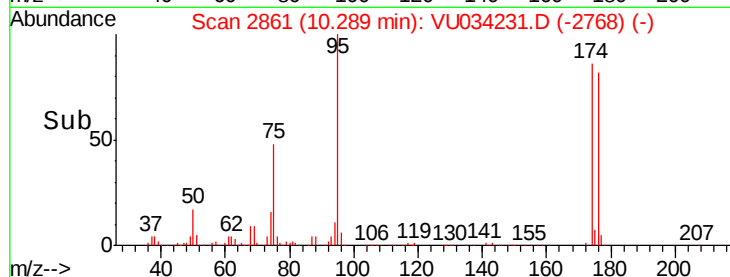
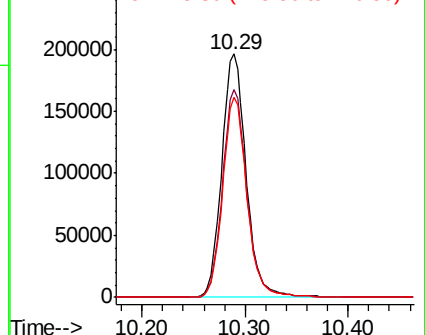
176 81.6 0.0 161.8



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034231.D

Acq: 03 Sep 2019 16:58

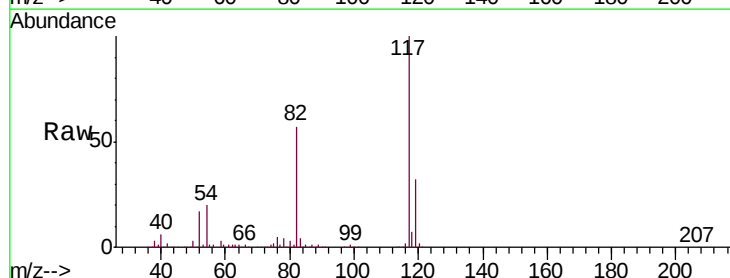
Tgt Ion: 117 Resp: 705173

Ion Ratio Lower Upper

117 100

82 56.6 45.1 67.7

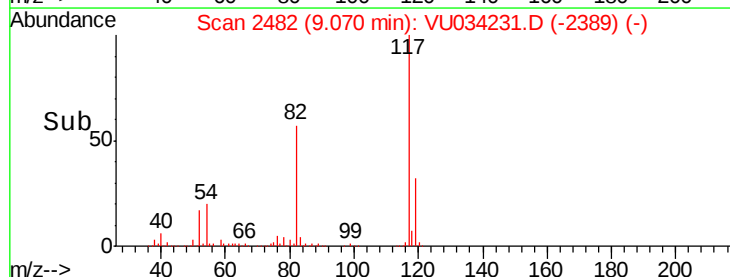
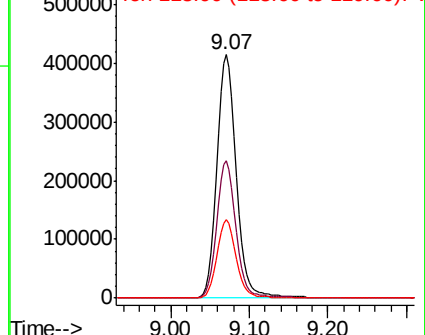
119 32.2 25.4 38.0

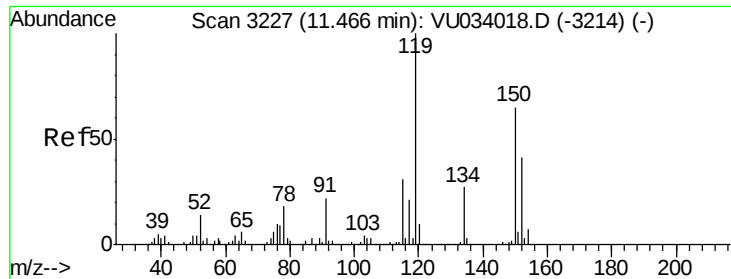


Abundance Ion 116.90 (116.60 to 117.60): V

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: VU034231.D

Acq: 03 Sep 2019 16:58

Instrument :

MSVOA_U

ClientSampleId :

T3-S-C2-(2.5)

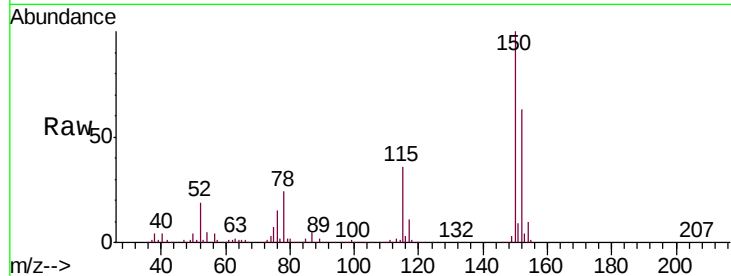
Tgt Ion:152 Resp: 344678

Ion Ratio Lower Upper

152 100

115 56.5 41.1 123.3

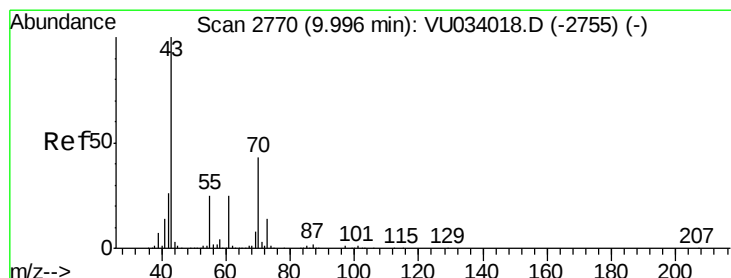
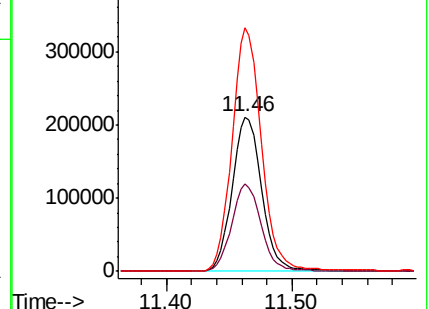
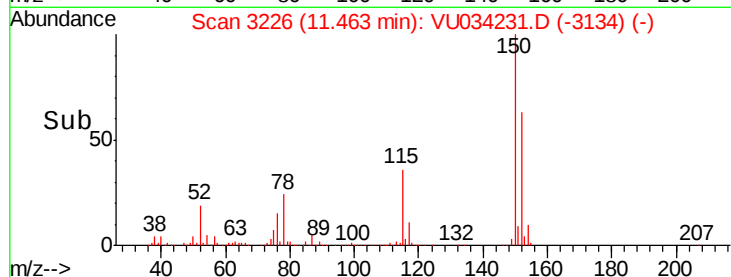
150 157.5 0.0 348.8



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-ethyl acetate

Concen: 0.355 ug/l

RT: 9.92 min Scan# 2746

Delta R.T. -0.08 min

Lab File: VU034231.D

Acq: 03 Sep 2019 16:58

Tgt Ion: 43 Resp: 3459

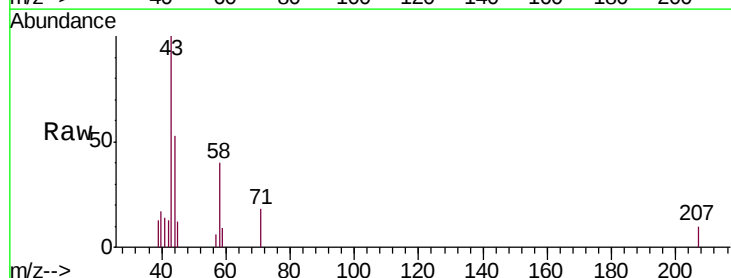
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 0.0 20.5 30.7#

61 0.0 20.0 30.0#

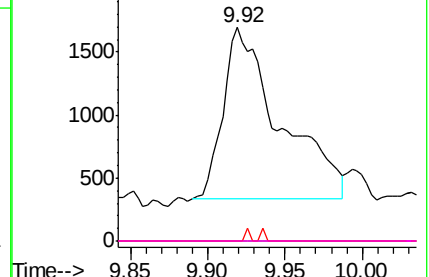
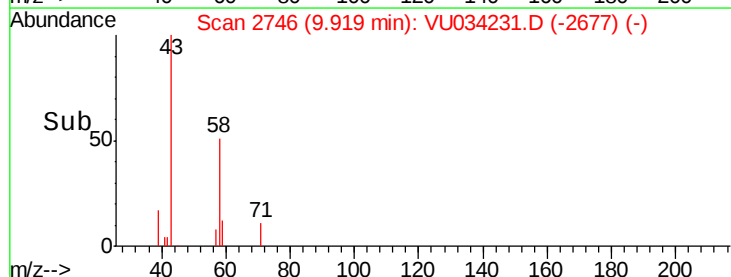


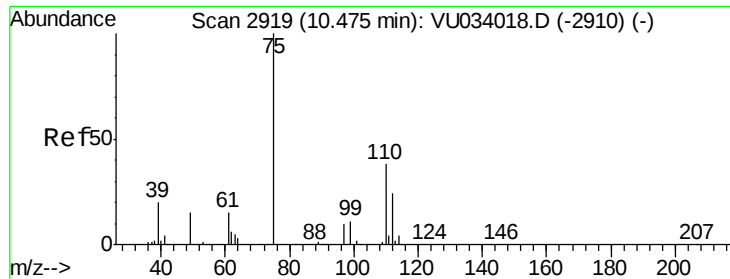
Abundance Ion 43.00 (42.70 to 43.70): VU0

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

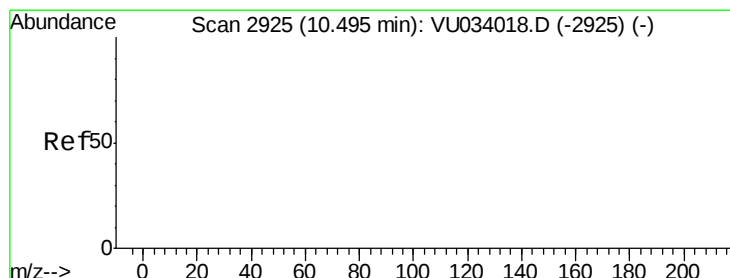
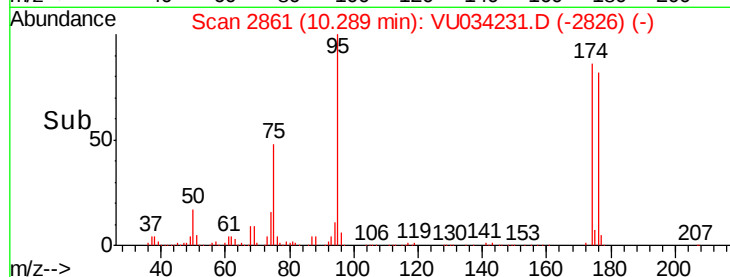
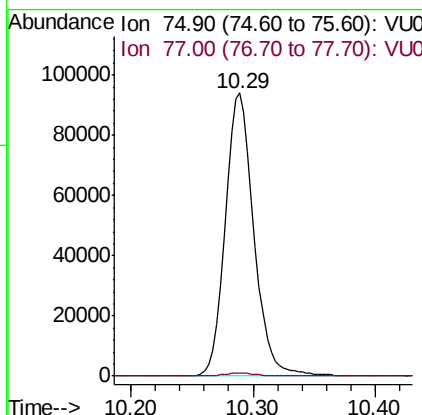
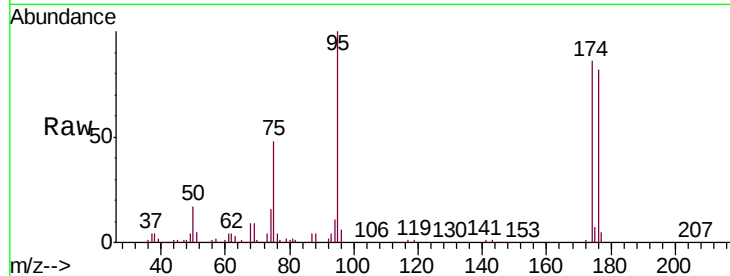




#76
 1,2,3-Trichloropropane
 Concen: 19.868 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034231.D
 Acq: 03 Sep 2019 16:58

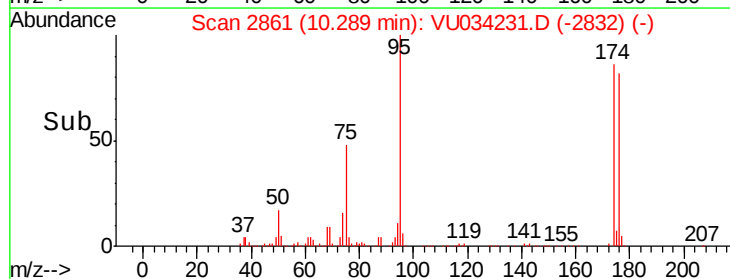
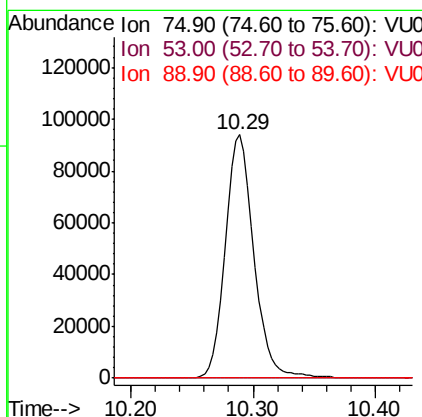
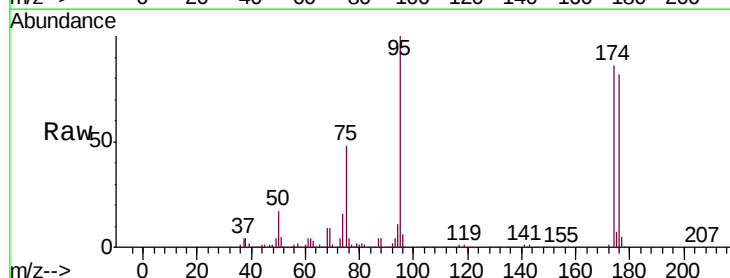
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C2-(2.5)

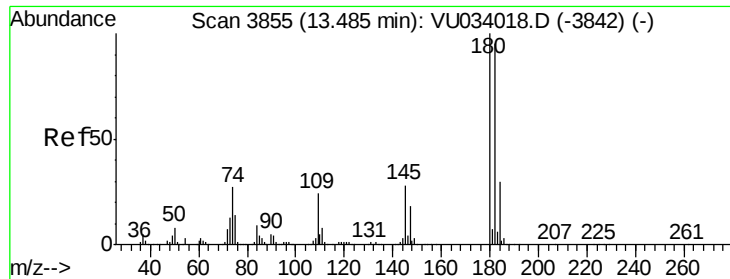
Tgt Ion: 75 Resp: 154341
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.899 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034231.D
 Acq: 03 Sep 2019 16:58

Tgt Ion: 75 Resp: 154341
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0

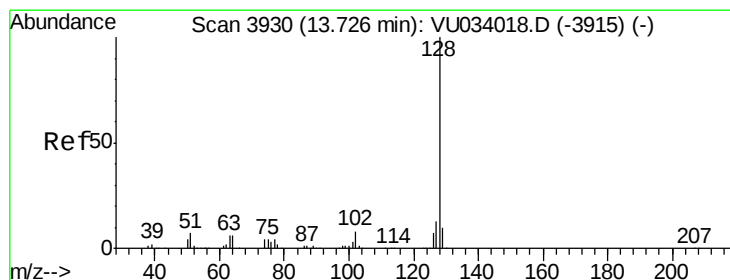
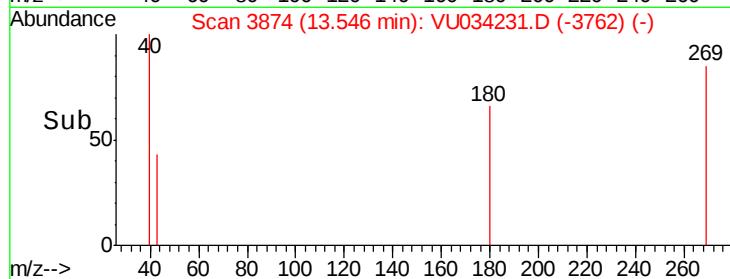
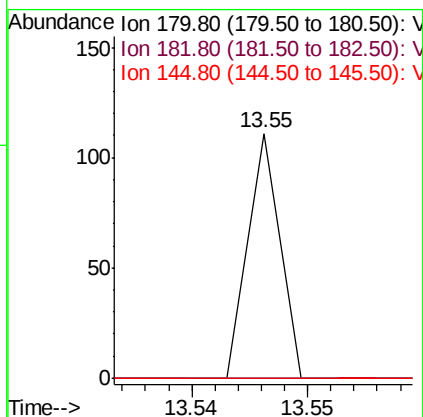
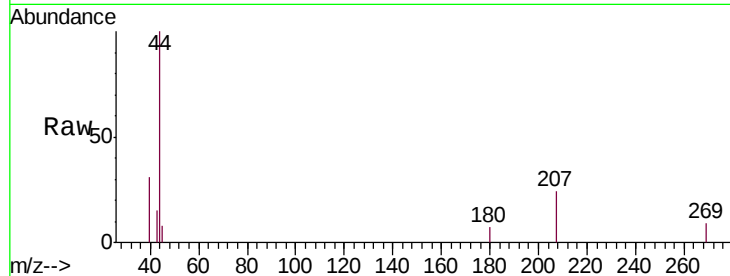




#93
 1,2,4-Trichlorobenzene
 Concen: 1.117 ug/l
 RT: 13.55 min Scan# 3874
 Delta R.T. 0.06 min
 Lab File: VU034231.D
 Acq: 03 Sep 2019 16:58

Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C2-(2.5)

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



#95
 Naphthalene
 Concen: 1.791 ug/l
 RT: 13.80 min Scan# 3952
 Delta R.T. 0.07 min
 Lab File: VU034231.D
 Acq: 03 Sep 2019 16:58

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

