

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090519\
 Data File : VU034257.D
 Acq On : 04 Sep 2019 14:57
 Operator : JC/SP
 Sample : K4547-26
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

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

Quant Time: Sep 05 03:38:58 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	425216	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	674226	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	676051	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	335438	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	258390	47.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.84%	
35) Dibromofluoromethane	4.86	113	221649	47.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.80%	
50) Toluene-d8	7.55	98	866039	49.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.92%	
62) 4-Bromofluorobenzene	10.29	95	304151	44.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.30%	

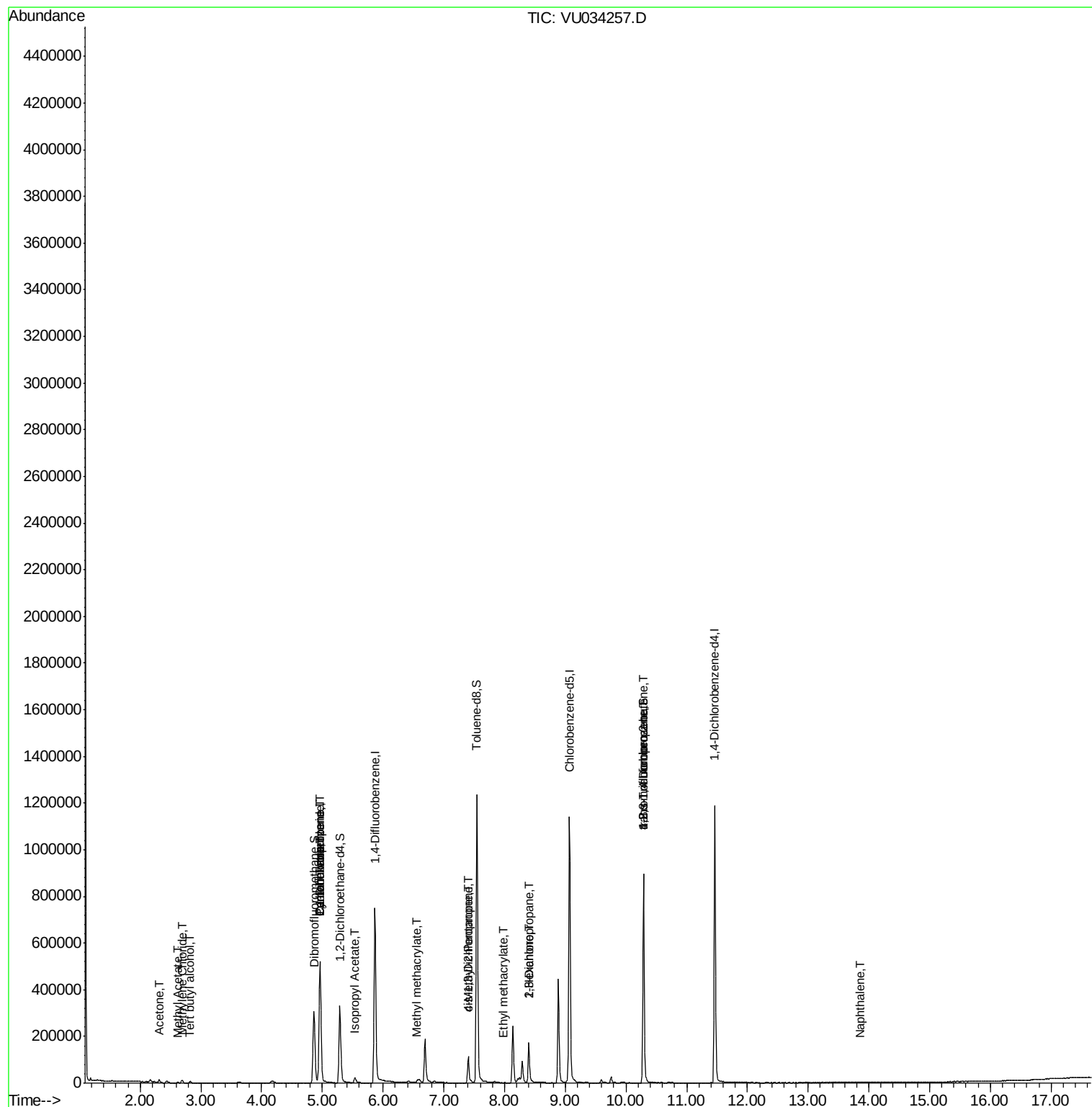
Target Compounds			Qvalue			
3) Chloromethane	1.33	50	440	Below Cal		100
5) Bromomethane	1.64	94	478	Below Cal		95
11) Tert butyl alcohol	2.83	59	3723	2.963 ug/l #		73
16) Acetone	2.31	43	12621	4.540 ug/l		94
18) Methyl Acetate	2.61	43	1807	0.252 ug/l #		85
20) Methylene Chloride	2.69	84	5869	1.115 ug/l		90
31) Cyclohexane	4.96	56	7060	0.868 ug/l #		1
36) 1,1-Dichloropropene	4.96	75	29709	4.659 ug/l #		49
38) Carbon Tetrachloride	4.96	117	38522	6.258 ug/l #		16
43) Isopropyl Acetate	5.54	43	28132	2.589 ug/l		97
48) Methyl methacrylate	6.54	41	3323	0.634 ug/l #		14
51) 4-Methyl-2-Pentanone	7.40	43	38652	5.151 ug/l #		47
54) cis-1,3-Dichloropropene	7.40	75	21994	2.710 ug/l #		63
56) Ethyl methacrylate	7.98	69	94	0.983 ug/l #		27
57) 1,3-Dichloropropane	8.40	76	1823	0.214 ug/l #		42
59) 2-Hexanone	8.40	43	22120	3.905 ug/l #		58
76) 1,2,3-Trichloropropane	10.29	75	145112	19.194 ug/l #		37
81) trans-1,4-Dichloro-2-buten	10.29	75	145112	64.632 ug/l #		100
95) Naphthalene	13.86	128	19	1.791 ug/l #		70

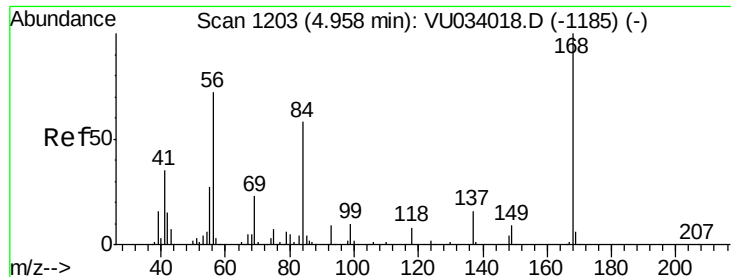
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034257.D

Acq: 04 Sep 2019 14:57

Instrument :

MSVOA_U

ClientSampleId :

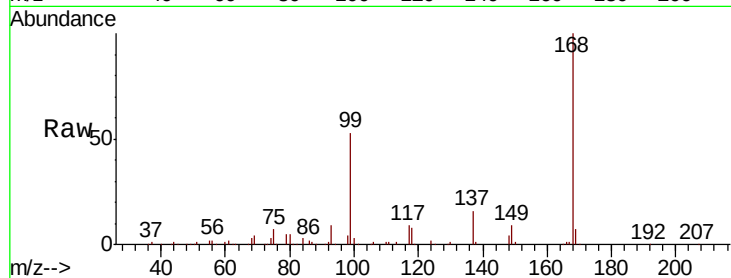
T3-S-G-(2.5)

Tgt Ion:168 Resp: 425216

Ion Ratio Lower Upper

168 100

99 53.3 42.3 63.5



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

Ion 98.90 (98.60 to 99.60): VU034018.D

4.96

200000

150000

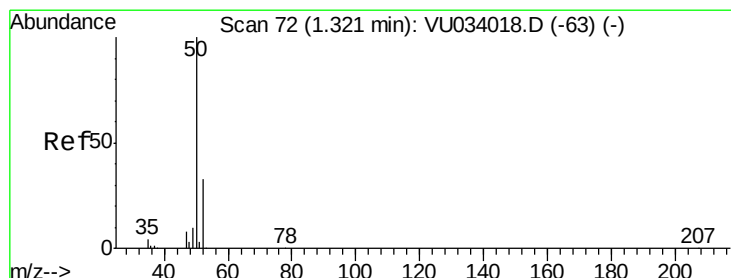
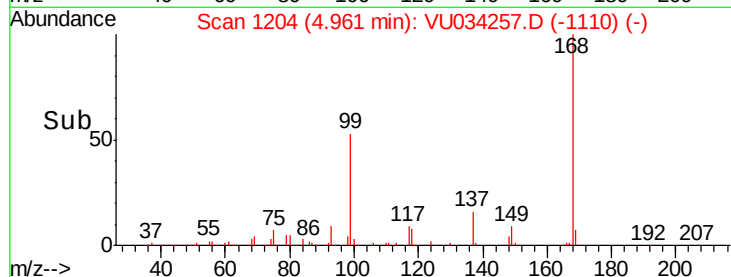
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 75

Delta R.T. 0.01 min

Lab File: VU034257.D

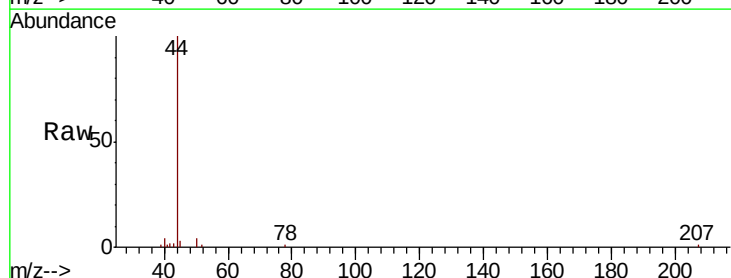
Acq: 04 Sep 2019 14:57

Tgt Ion: 50 Resp: 440

Ion Ratio Lower Upper

50 100

52 33.1 26.2 39.4



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

Ion 51.90 (51.60 to 52.60): VU034018.D

1.33

400

300

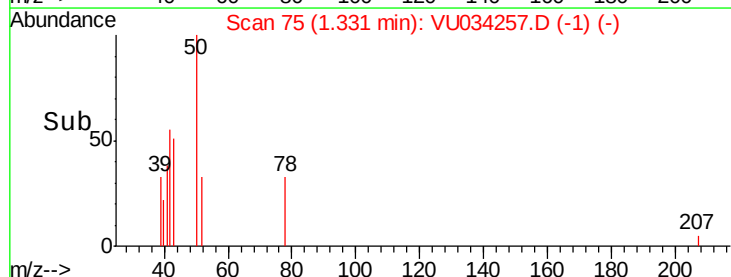
200

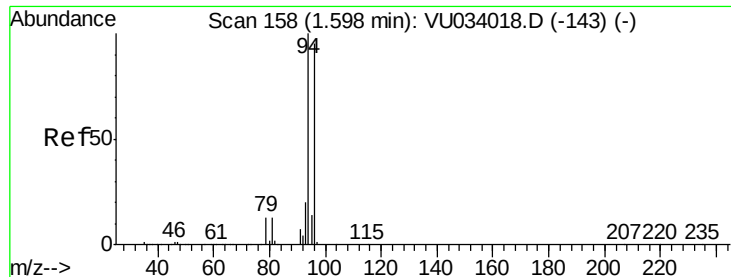
100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 170

Delta R.T. 0.04 min

Lab File: VU034257.D

Acq: 04 Sep 2019 14:57

Instrument :

MSVOA_U

ClientSampleId :

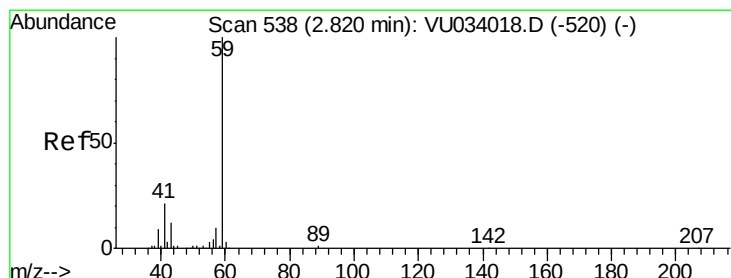
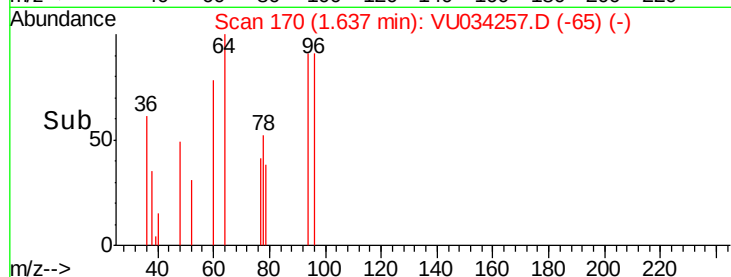
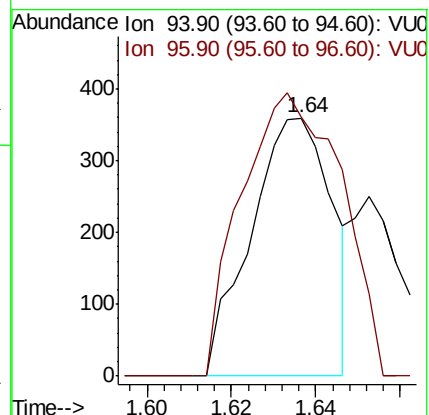
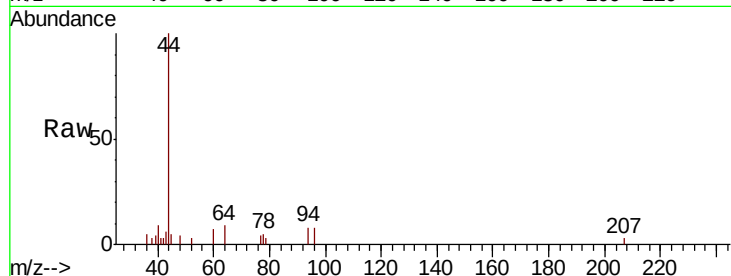
T3-S-G-(2.5)

Tgt Ion: 94 Resp: 478

Ion Ratio Lower Upper

94 100

96 100.3 76.3 114.5



#11

Tert butyl alcohol

Concen: 2.963 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034257.D

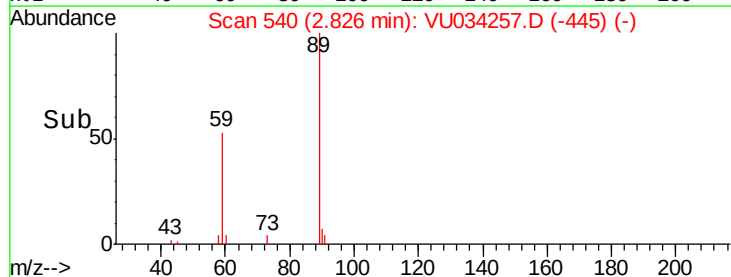
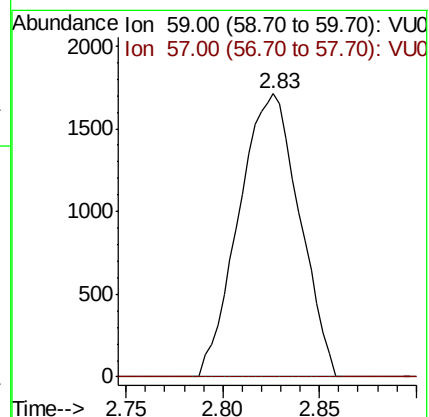
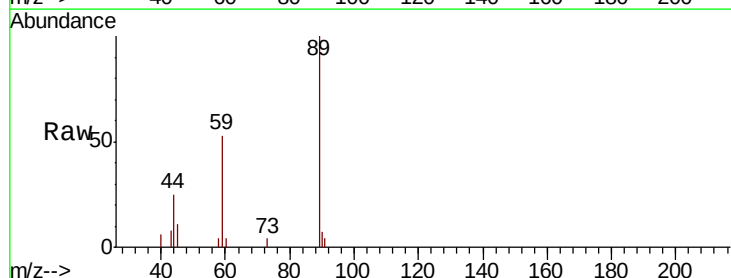
Acq: 04 Sep 2019 14:57

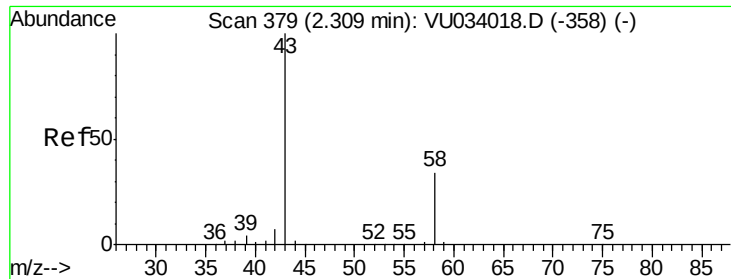
Tgt Ion: 59 Resp: 3723

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#





#16

Acetone

Concen: 4.540 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034257.D

Acq: 04 Sep 2019 14:57

Instrument :

MSVOA_U

ClientSampleId :

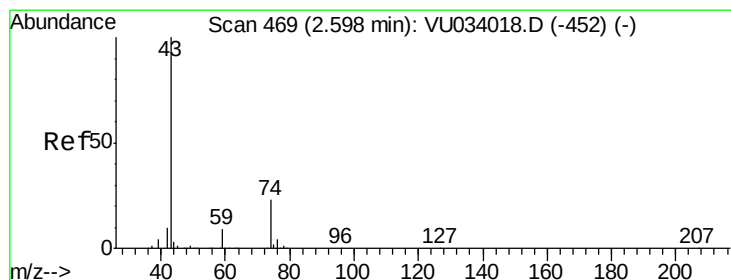
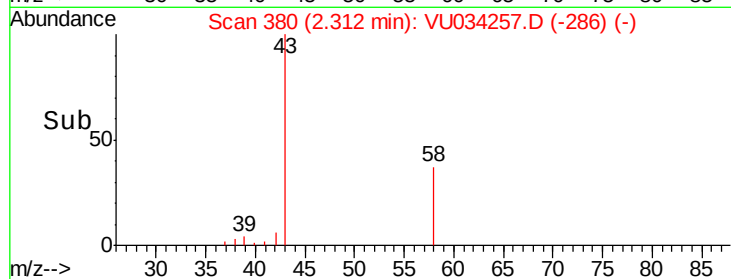
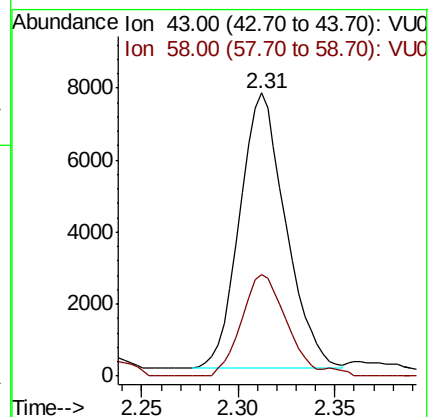
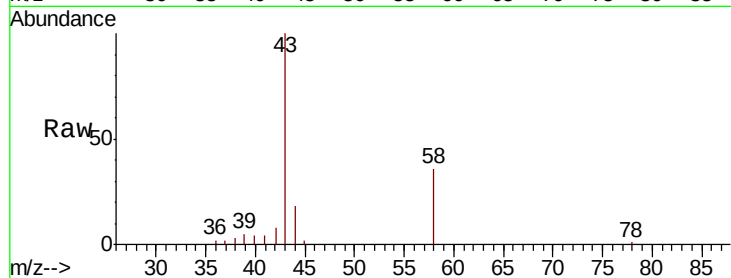
T3-S-G-(2.5)

Tgt Ion: 43 Resp: 12621

Ion Ratio Lower Upper

43 100

58 37.2 26.8 40.2



#18

Methyl Acetate

Concen: 0.252 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.02 min

Lab File: VU034257.D

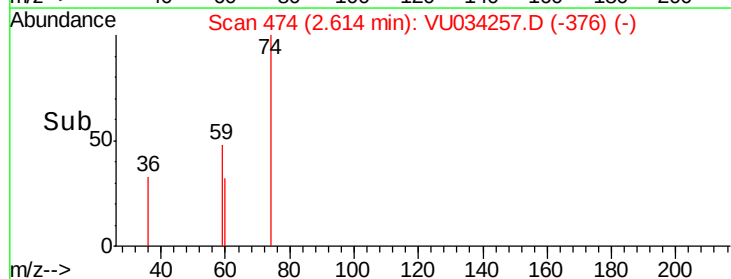
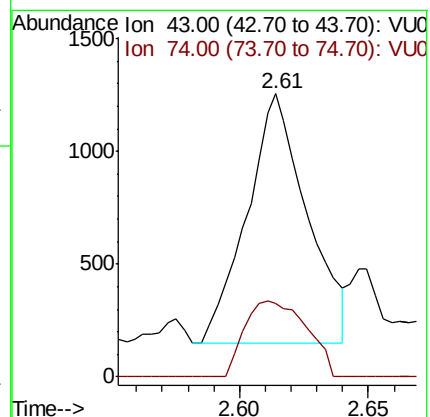
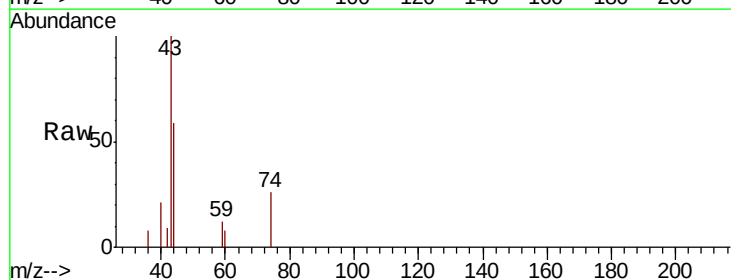
Acq: 04 Sep 2019 14:57

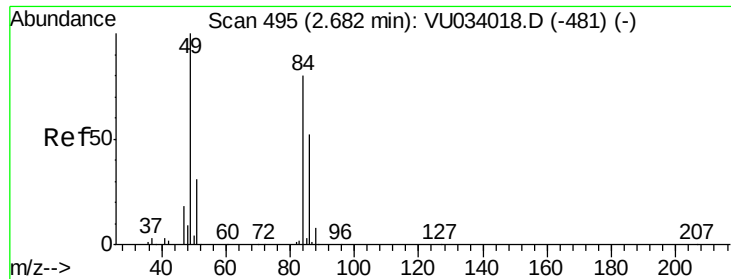
Tgt Ion: 43 Resp: 1807

Ion Ratio Lower Upper

43 100

74 31.2 19.2 28.8#

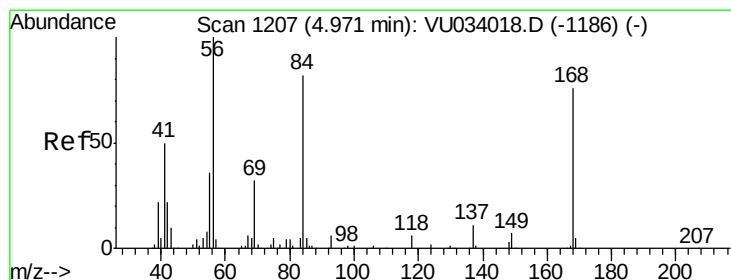
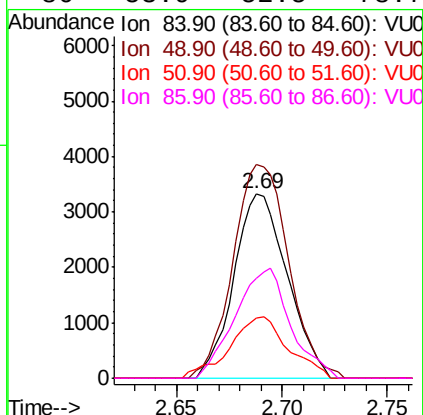
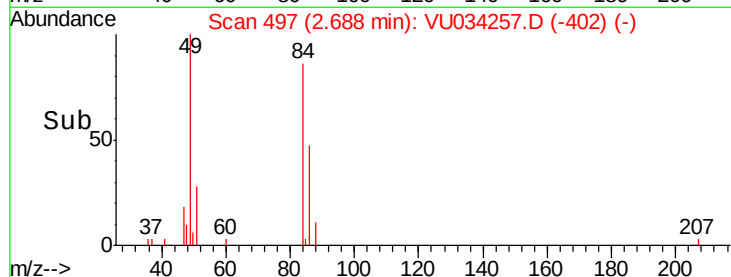
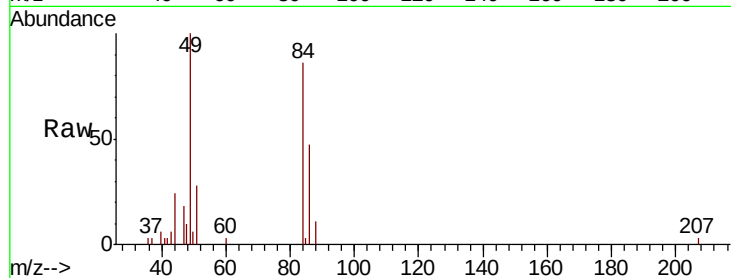




#20
Methylene Chloride
Concen: 1.115 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034257.D
Acq: 04 Sep 2019 14:57

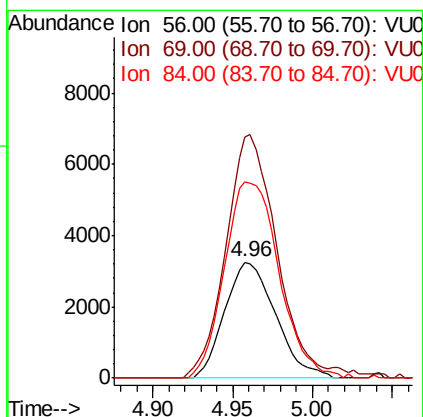
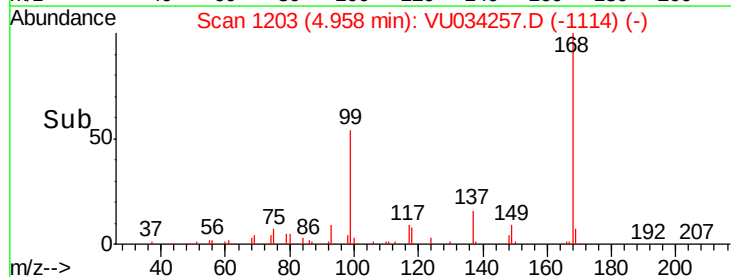
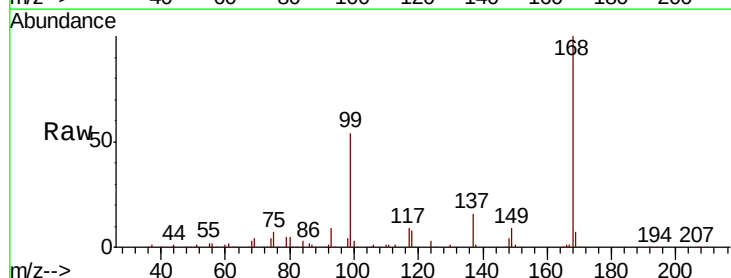
Instrument :
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ClientSampleId :
T3-S-G-(2.5)

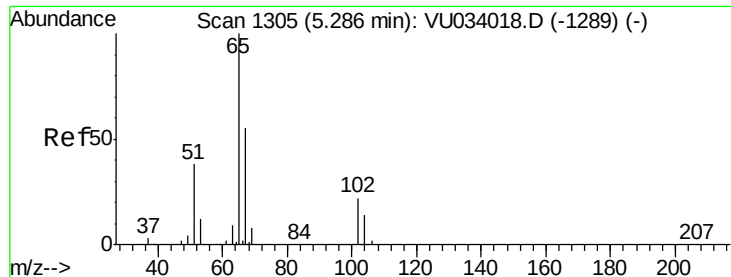
Tgt Ion: 84 Resp: 5869
Ion Ratio Lower Upper
84 100
49 115.9 100.2 150.4
51 32.4 30.8 46.2
86 53.9 52.5 78.7



#31
Cyclohexane
Concen: 0.868 ug/l
RT: 4.96 min Scan# 1203
Delta R.T. -0.01 min
Lab File: VU034257.D
Acq: 04 Sep 2019 14:57

Tgt Ion: 56 Resp: 7060
Ion Ratio Lower Upper
56 100
69 203.7 25.4 38.0#
84 170.1 65.8 98.8#





#33

1,2-Dichloroethane-d4

Concen: 47.424 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034257.D

Acq: 04 Sep 2019 14:57

Instrument :

MSVOA_U

ClientSampleId :

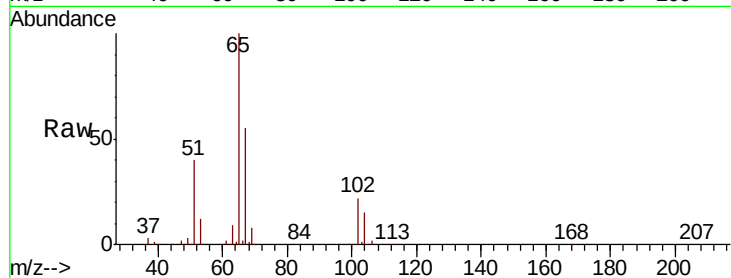
T3-S-G-(2.5)

Tgt Ion: 65 Resp: 258390

Ion Ratio Lower Upper

65 100

67 55.0 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

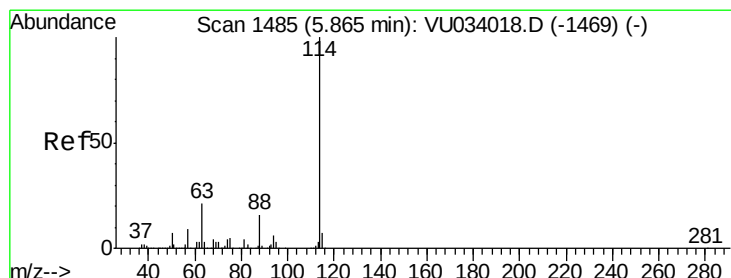
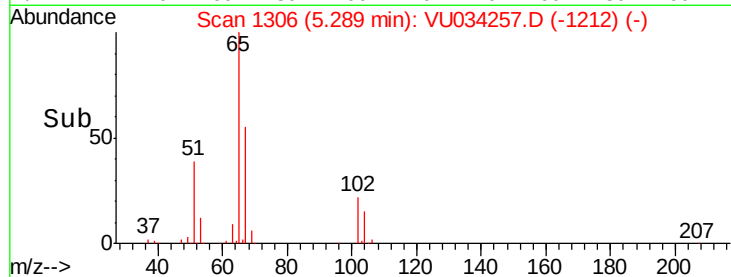
100000

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: VU034257.D

Acq: 04 Sep 2019 14:57

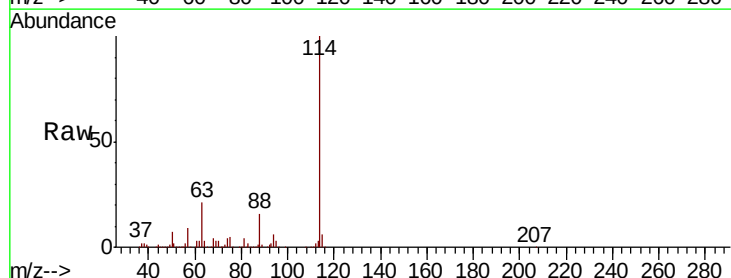
Tgt Ion: 114 Resp: 674226

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.0

88 16.0 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

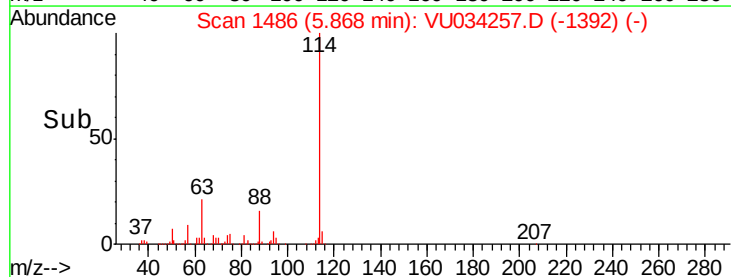
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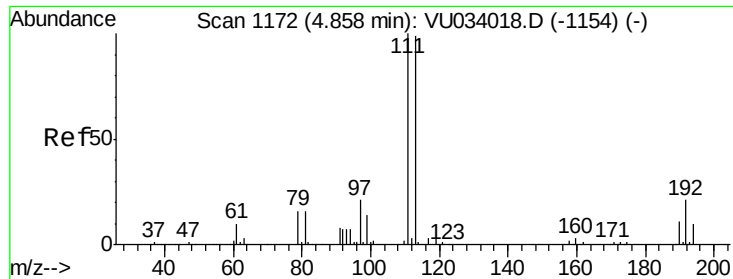
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Time-->

5.80 5.90 6.00 6.10

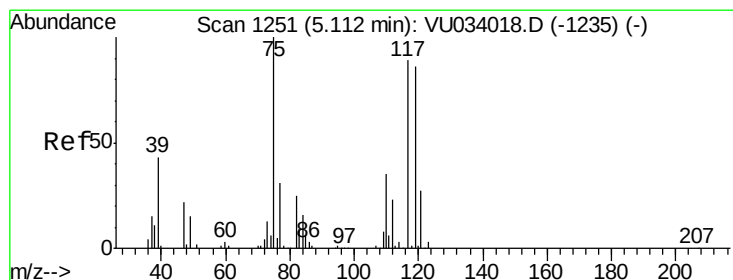
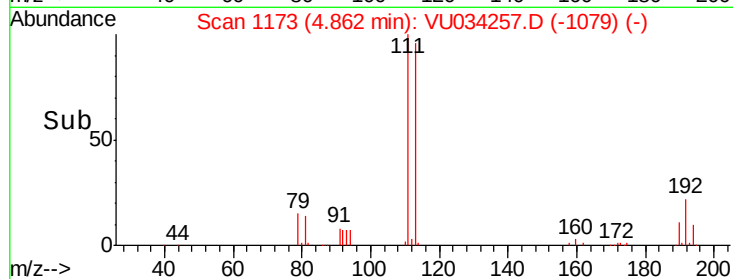
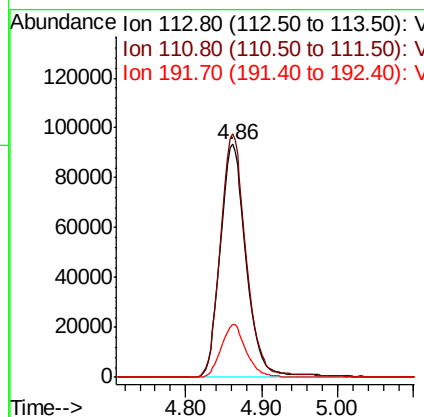
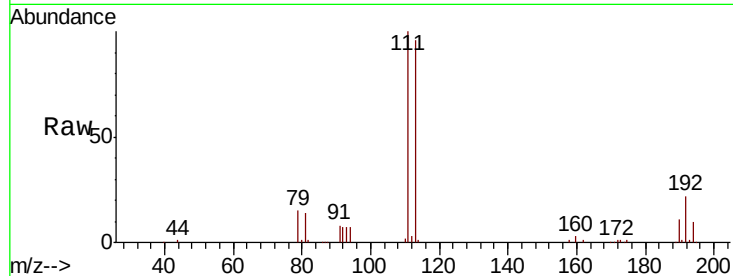




#35
 Dibromofluoromethane
 Concen: 47.398 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034257.D
 Acq: 04 Sep 2019 14:57

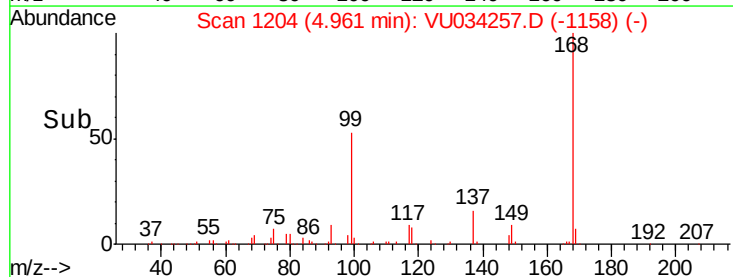
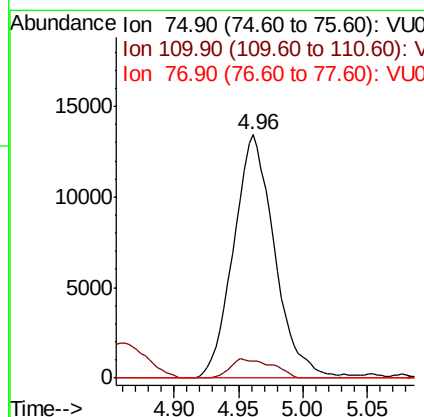
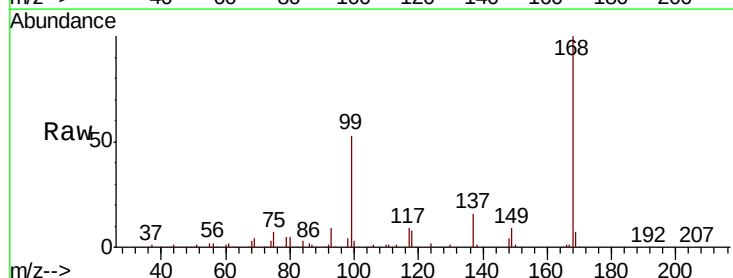
Instrument :
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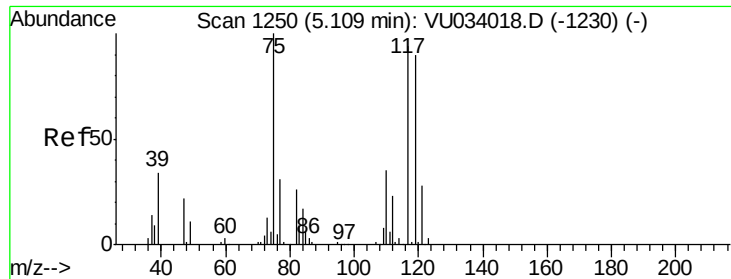
Tgt Ion: 113 Resp: 221649
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.7 122.5
 192 22.1 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.659 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034257.D
 Acq: 04 Sep 2019 14:57

Tgt Ion: 75 Resp: 29709
 Ion Ratio Lower Upper
 75 100
 110 8.2 17.8 53.5#
 77 0.0 25.0 37.4#

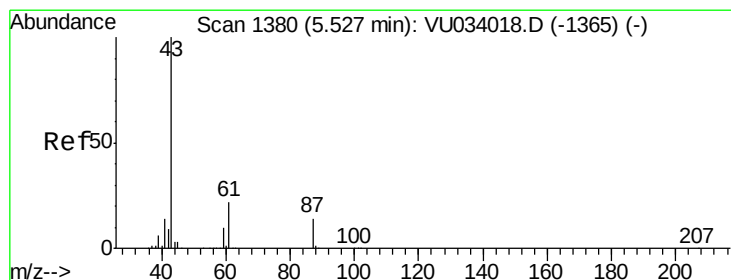
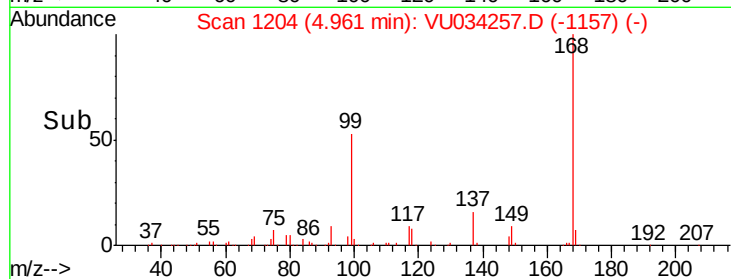
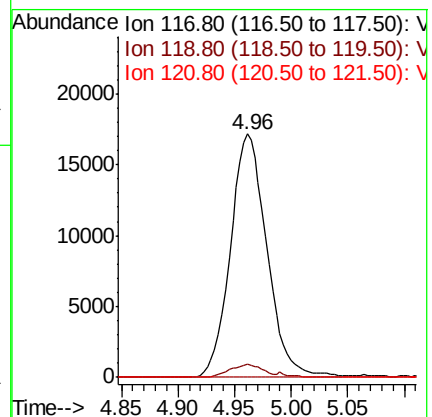
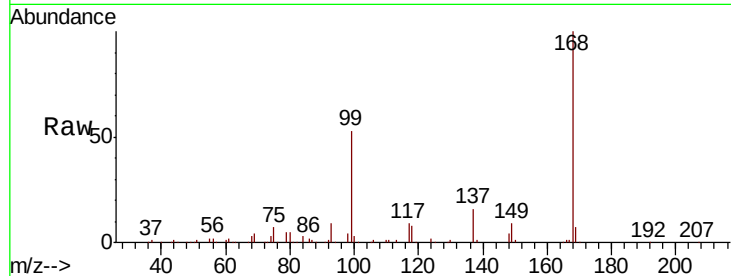




#38
Carbon Tetrachloride
Concen: 6.258 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.15 min
Lab File: VU034257.D
Acq: 04 Sep 2019 14:57

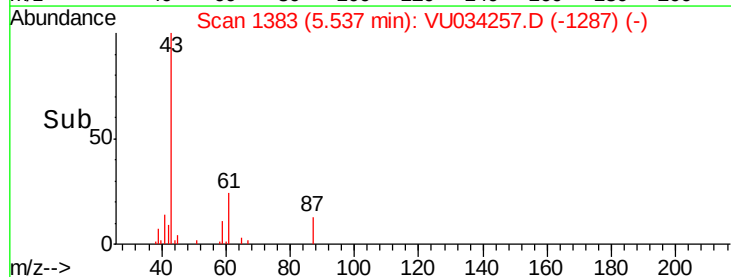
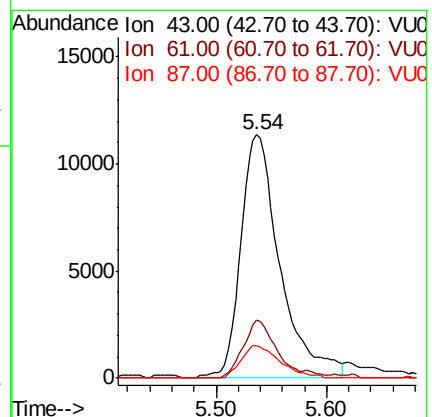
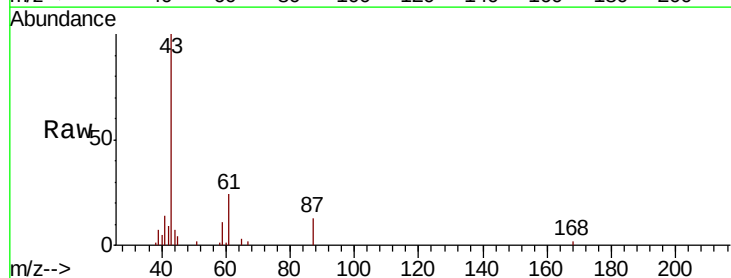
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T3-S-G-(2.5)

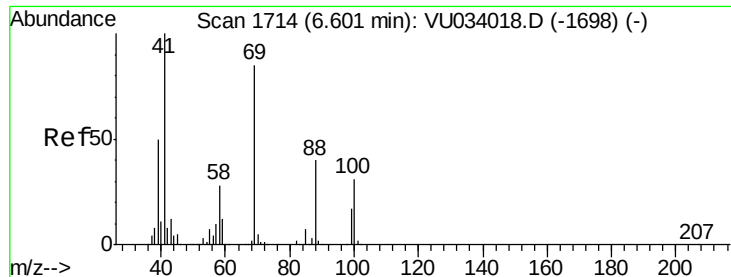
Tgt Ion: 117 Resp: 38522
Ion Ratio Lower Upper
117 100
119 5.2 77.0 115.4#
121 0.0 23.9 35.9#



#43
Isopropyl Acetate
Concen: 2.589 ug/l
RT: 5.54 min Scan# 1383
Delta R.T. 0.01 min
Lab File: VU034257.D
Acq: 04 Sep 2019 14:57

Tgt Ion: 43 Resp: 28132
Ion Ratio Lower Upper
43 100
61 19.7 17.2 25.8
87 13.2 10.8 16.2

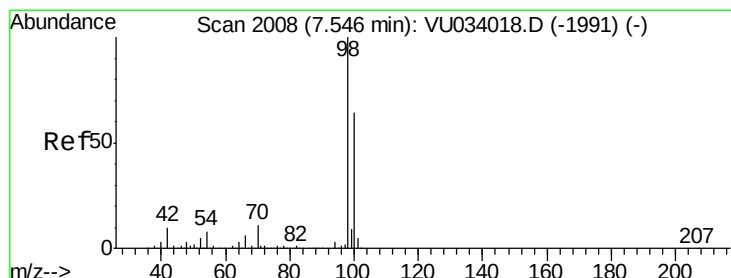
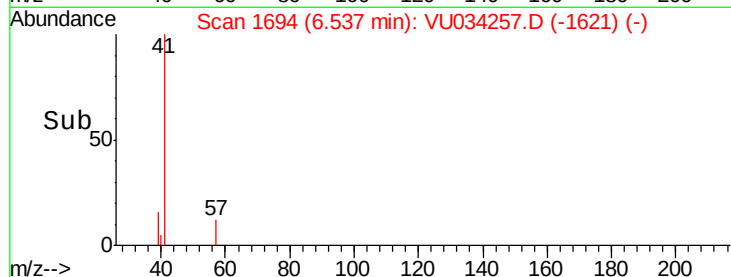
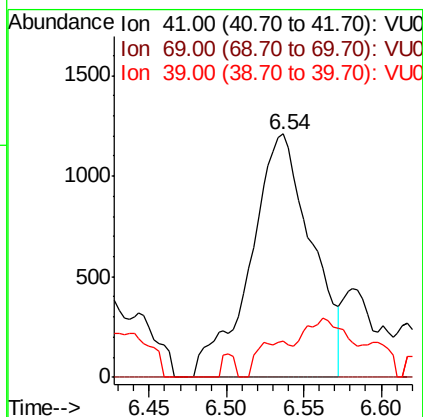
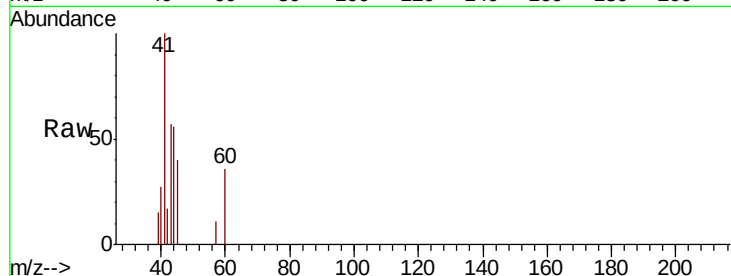




#48
Methyl methacrylate
Concen: 0.634 ug/l
RT: 6.54 min Scan# 1694
Delta R.T. -0.06 min
Lab File: VU034257.D
Acq: 04 Sep 2019 14:57

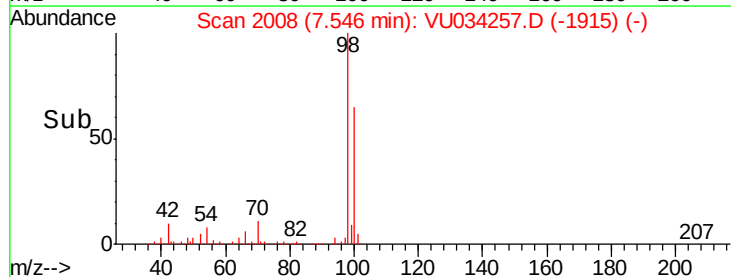
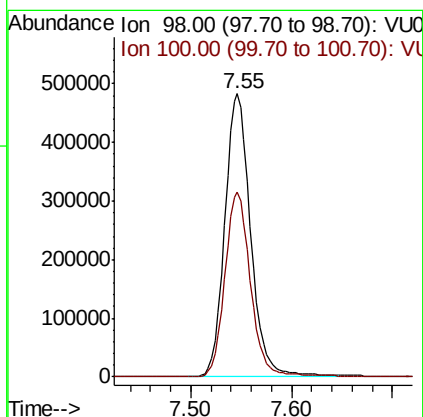
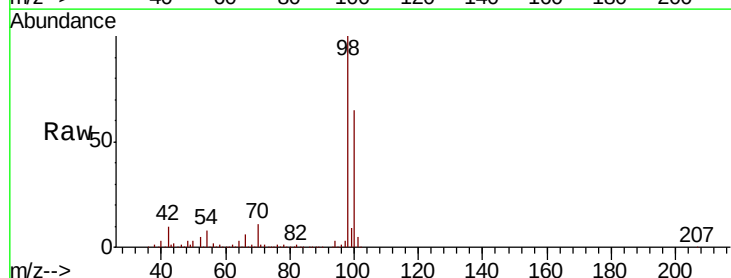
Instrument :
MSVOA_U
ClientSampleId :
T3-S-G-(2.5)

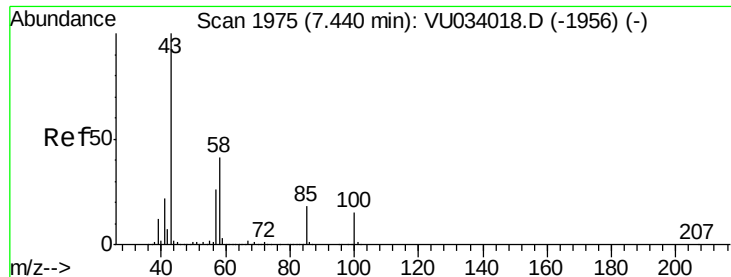
Tgt Ion: 41 Resp: 3323
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#50
Toluene-d8
Concen: 49.459 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034257.D
Acq: 04 Sep 2019 14:57

Tgt Ion: 98 Resp: 866039
Ion Ratio Lower Upper
98 100
100 65.2 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 5.151 ug/l

RT: 7.40 min Scan# 1964

Delta R.T. -0.04 min

Lab File: VU034257.D

Acq: 04 Sep 2019 14:57

Instrument :

MSVOA_U

ClientSampleId :

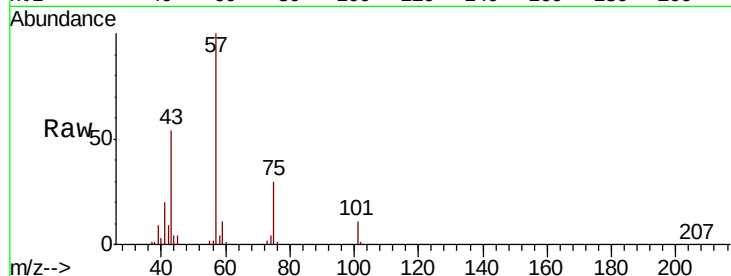
T3-S-G-(2.5)

Tgt Ion: 43 Resp: 38652

Ion Ratio Lower Upper

43 100

58 7.7 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-1956) (-)

Ion 58.00 (57.70 to 58.70): VU034018.D (-1956) (-)

7.40

25000

20000

15000

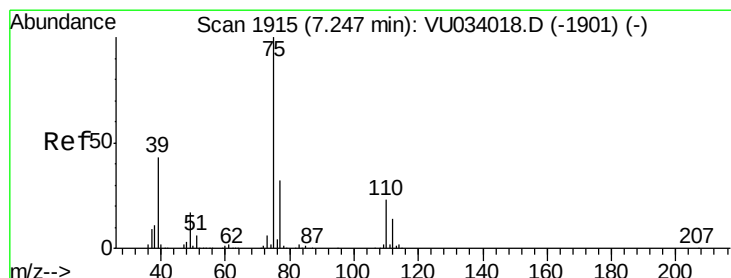
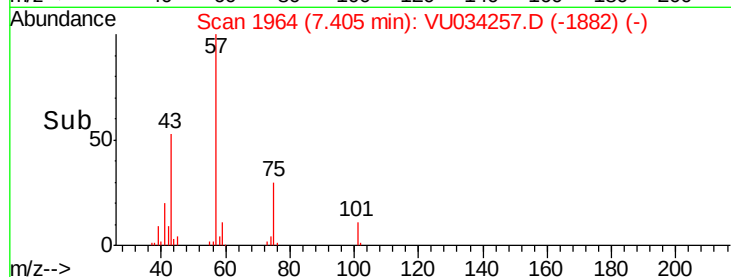
10000

5000

0

7.35 7.40 7.45

Time-->



#54

cis-1,3-Dichloropropene

Concen: 2.710 ug/l

RT: 7.40 min Scan# 1964

Delta R.T. 0.16 min

Lab File: VU034257.D

Acq: 04 Sep 2019 14:57

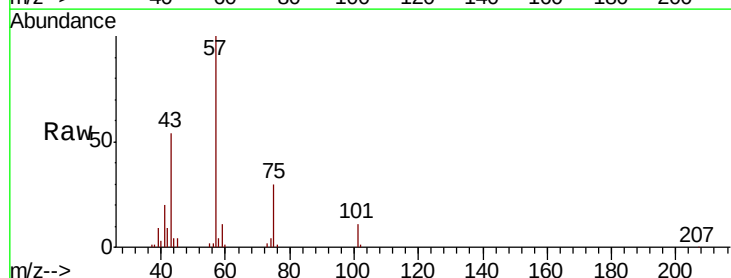
Tgt Ion: 75 Resp: 21994

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

39 28.4 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VU034018.D (-1901) (-)

Ion 76.90 (76.60 to 77.60): VU034018.D (-1901) (-)

Ion 39.00 (38.70 to 39.70): VU034018.D (-1901) (-)

7.40

15000

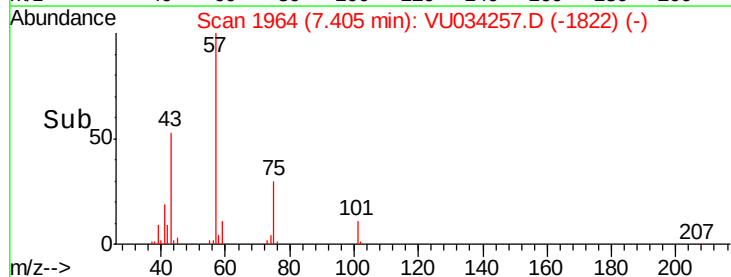
10000

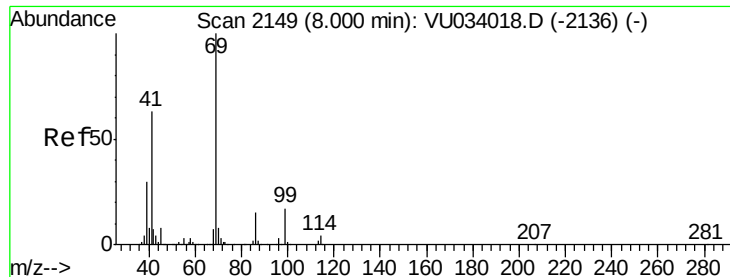
5000

0

7.35 7.40 7.45 7.50

Time-->





#56

Ethyl methacrylate

Concen: 0.983 ug/l

RT: 7.98 min Scan# 2144

Delta R.T. -0.02 min

Lab File: VU034257.D

Acq: 04 Sep 2019 14:57

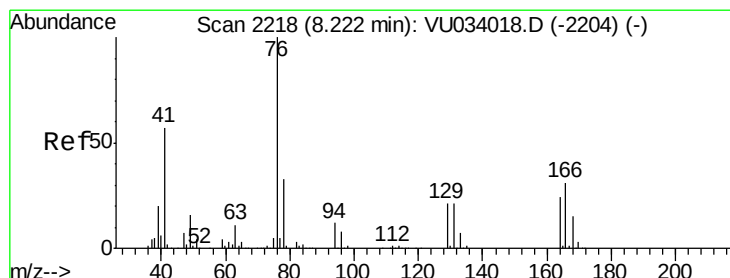
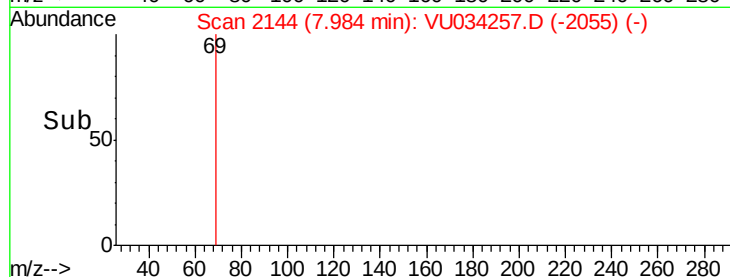
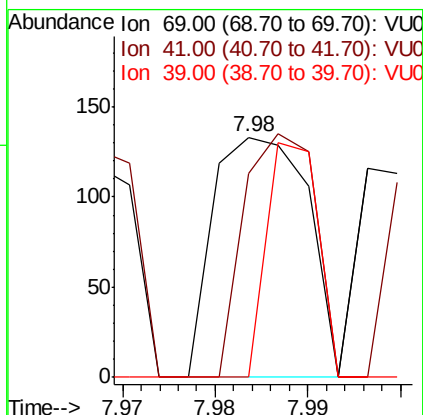
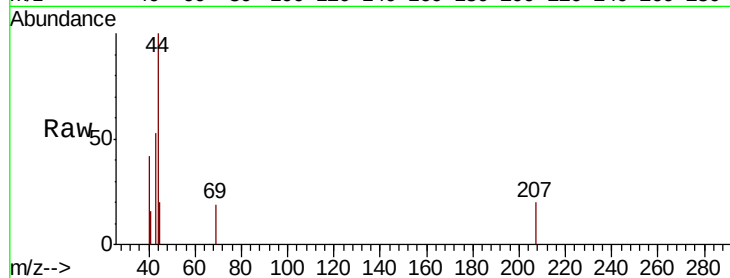
Instrument :

MSVOA_U

ClientSampleId :

T3-S-G-(2.5)

Tgt Ion:	69	Resp:	94
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: 0.214 ug/l

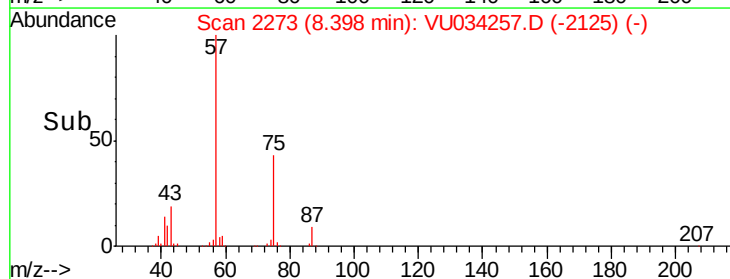
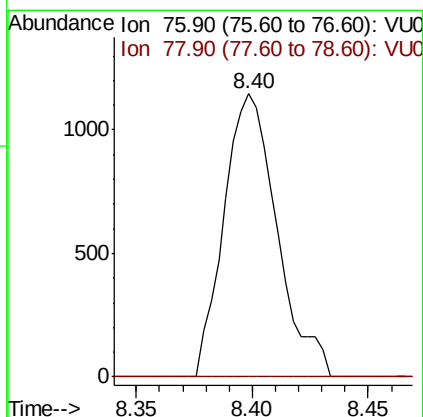
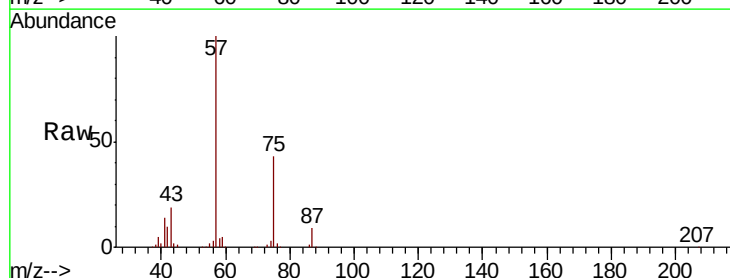
RT: 8.40 min Scan# 2273

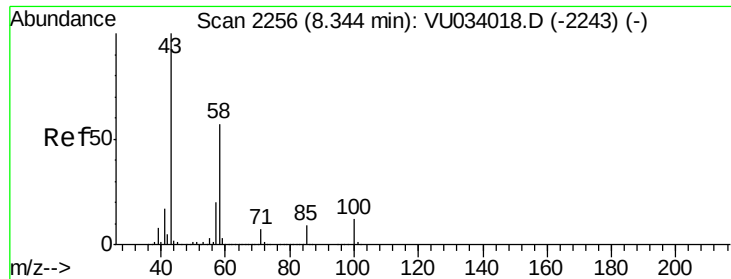
Delta R.T. 0.18 min

Lab File: VU034257.D

Acq: 04 Sep 2019 14:57

Tgt Ion:	76	Resp:	1823
Ion	Ratio	Lower	Upper
76	100		
78	0.0	26.2	39.4#

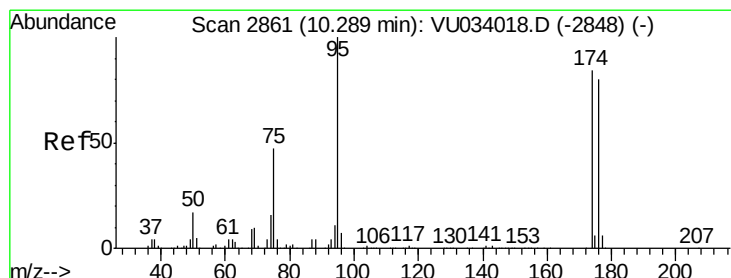
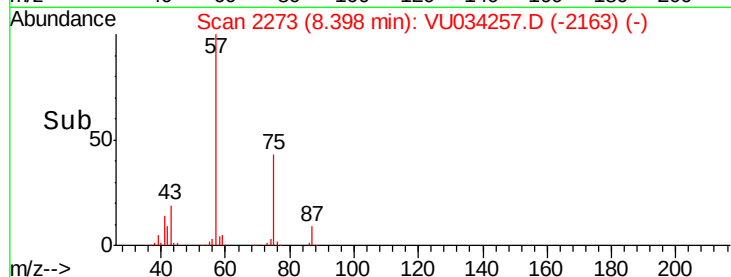
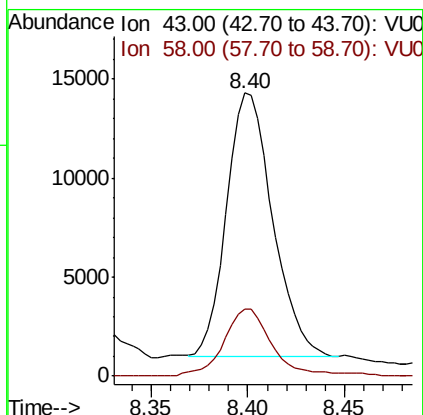
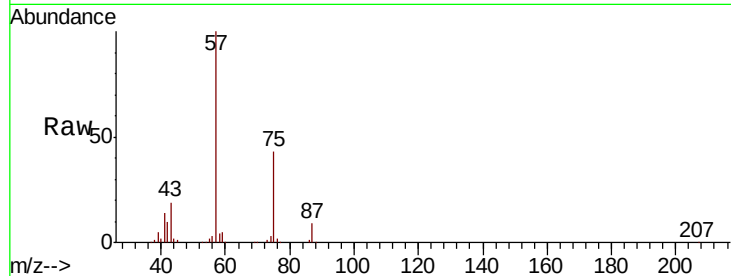




#59
2-Hexanone
Concen: 3.905 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034257.D
Acq: 04 Sep 2019 14:57

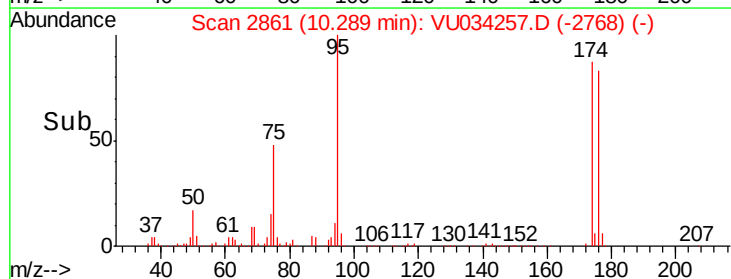
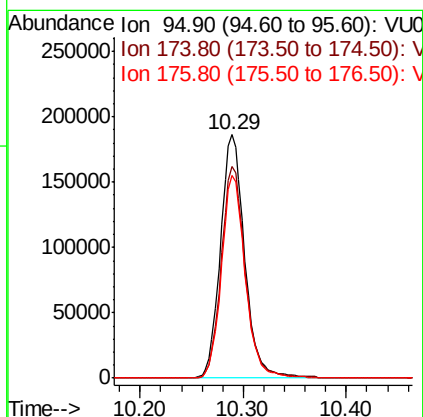
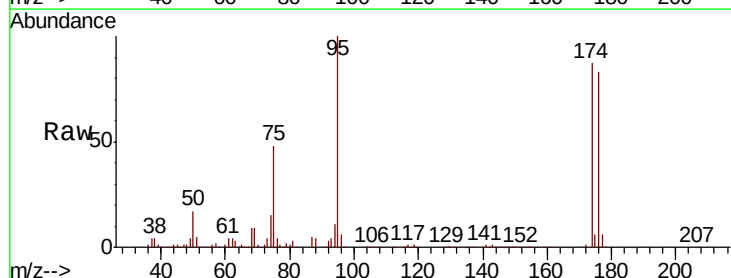
Instrument :
MSVOA_U
ClientSampleId :
T3-S-G-(2.5)

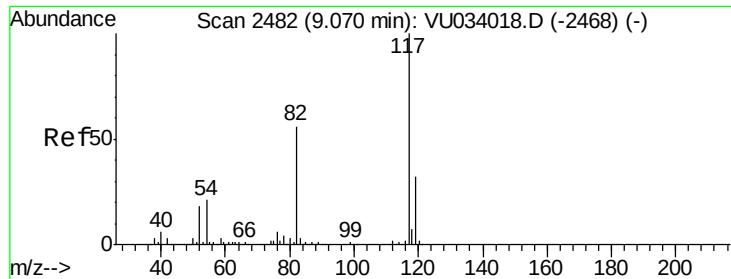
Tgt Ion: 43 Resp: 22120
Ion Ratio Lower Upper
43 100
58 26.2 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 44.654 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.00 min
Lab File: VU034257.D
Acq: 04 Sep 2019 14:57

Tgt Ion: 95 Resp: 304151
Ion Ratio Lower Upper
95 100
174 86.9 0.0 168.8
176 82.2 0.0 161.8

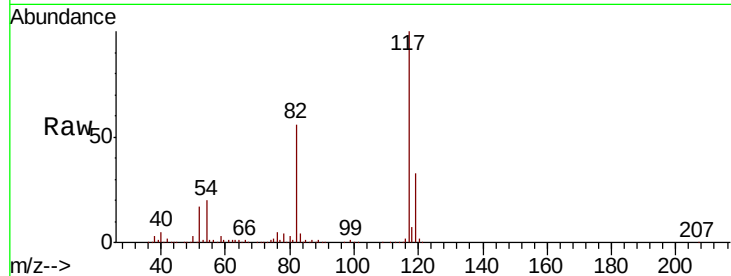




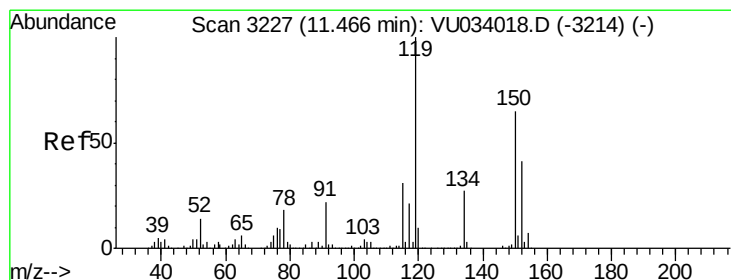
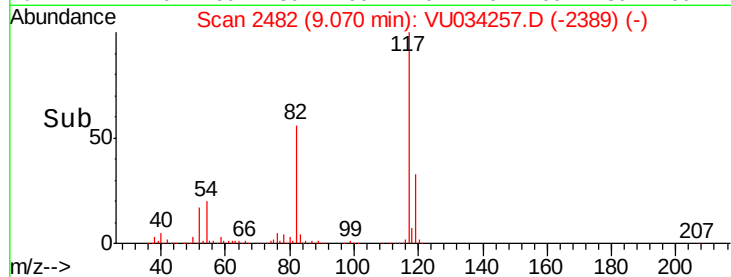
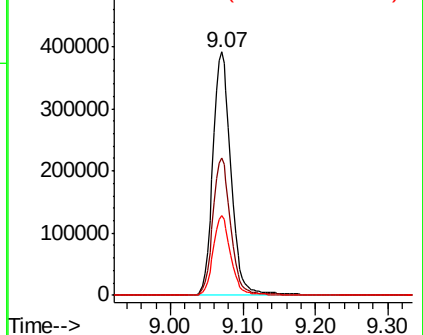
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.07 min Scan# 2482
 Delta R.T. -0.00 min
 Lab File: VU034257.D
 Acq: 04 Sep 2019 14:57

Instrument :
 MSVOA_U
 ClientSampled :
 T3-S-G-(2.5)

Tgt Ion:117 Resp: 676051
 Ion Ratio Lower Upper
 117 100
 82 56.4 45.1 67.7
 119 32.7 25.4 38.0

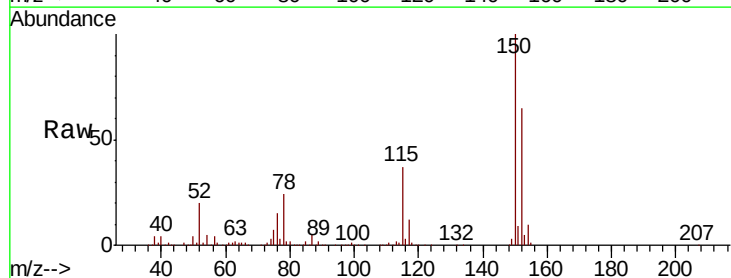


Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): V
 Ion 118.90 (118.60 to 119.60): V

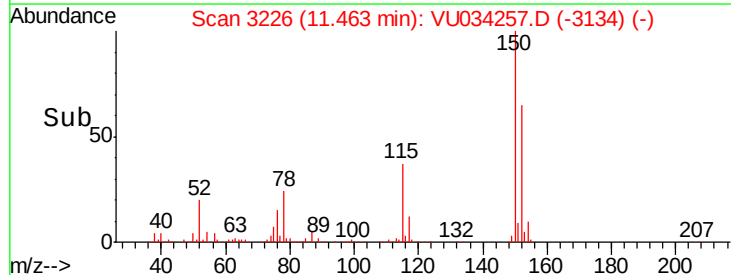
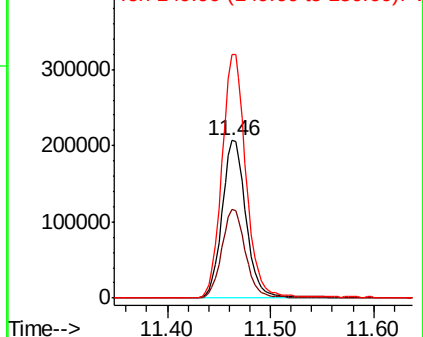


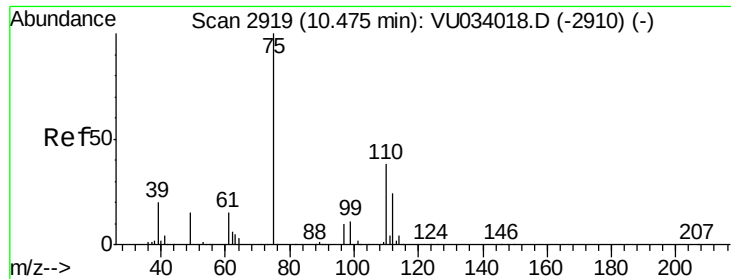
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.46 min Scan# 3226
 Delta R.T. -0.00 min
 Lab File: VU034257.D
 Acq: 04 Sep 2019 14:57

Tgt Ion:152 Resp: 335438
 Ion Ratio Lower Upper
 152 100
 115 56.2 41.1 123.3
 150 154.5 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





#76

1,2,3-Trichloropropane

Concen: 19.194 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034257.D

Acq: 04 Sep 2019 14:57

Instrument :

MSVOA_U

ClientSampleId :

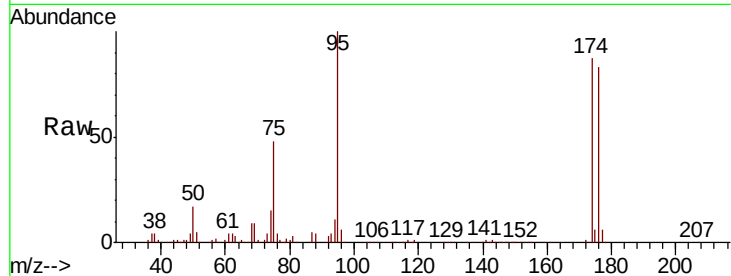
T3-S-G-(2.5)

Tgt Ion: 75 Resp: 145112

Ion Ratio Lower Upper

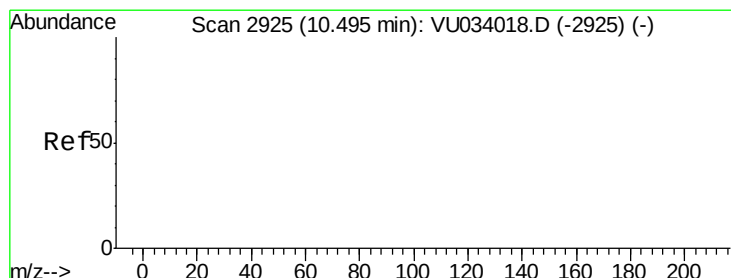
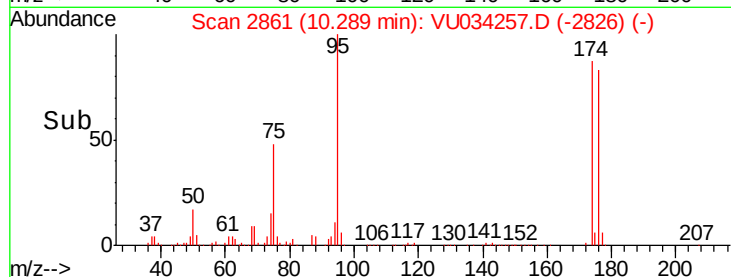
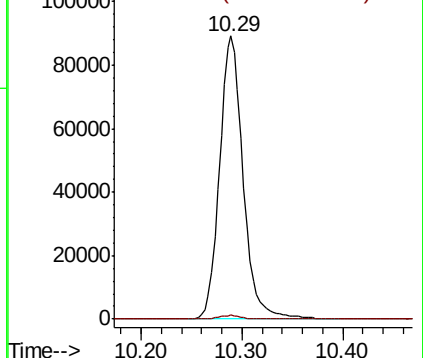
75 100

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: 64.632 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034257.D

Acq: 04 Sep 2019 14:57

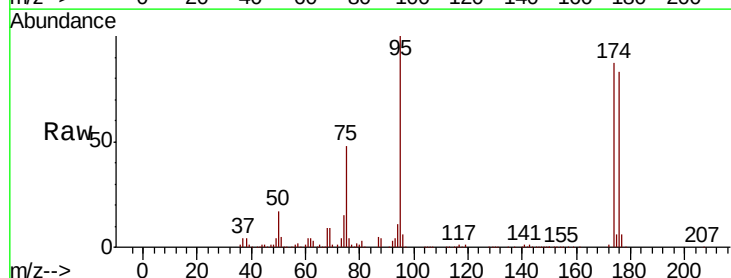
Tgt Ion: 75 Resp: 145112

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

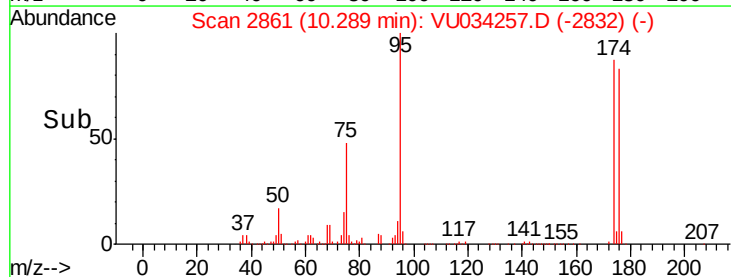
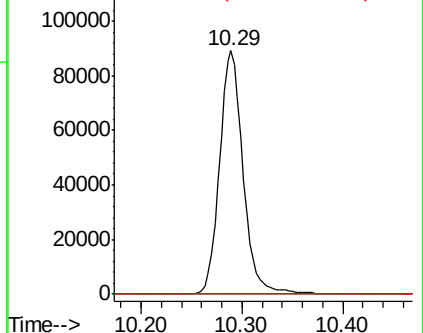
89 0.0 0.0 0.0

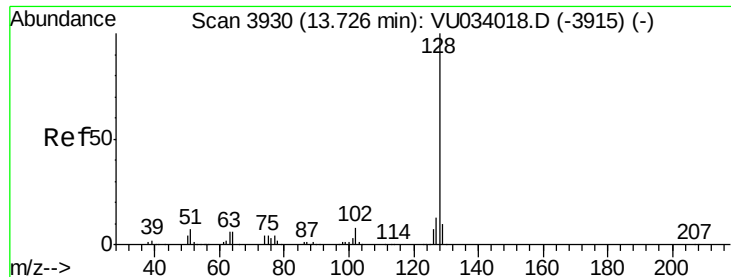


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

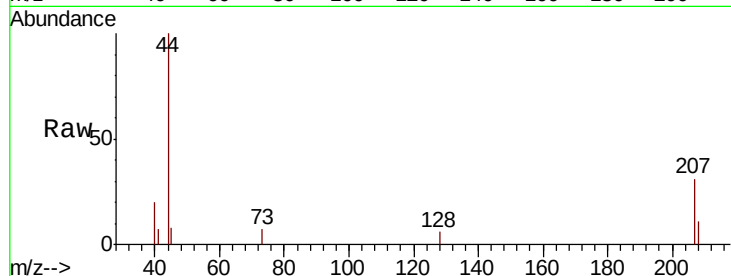




#95
 Naphthalene
 Concen: 1.791 ug/l
 RT: 13.86 min Scan# 3971
 Delta R.T. 0.13 min
 Lab File: VU034257.D
 Acq: 04 Sep 2019 14:57

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

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



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

