

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090519\
 Data File : VU034252.D
 Acq On : 04 Sep 2019 13:01
 Operator : JC/SP
 Sample : K4546-39
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-B4-(0)

Quant Time: Sep 05 03:37:44 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	437223	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	700196	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	702574	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	339058	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	271102	48.39	ug/l	0.00
Spiked Amount			Recovery	=	96.78%	
35) Dibromofluoromethane	4.86	113	230990	47.56	ug/l	0.00
Spiked Amount			Recovery	=	95.12%	
50) Toluene-d8	7.55	98	910237	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
62) 4-Bromofluorobenzene	10.29	95	314002	44.39	ug/l	0.00
Spiked Amount			Recovery	=	88.78%	

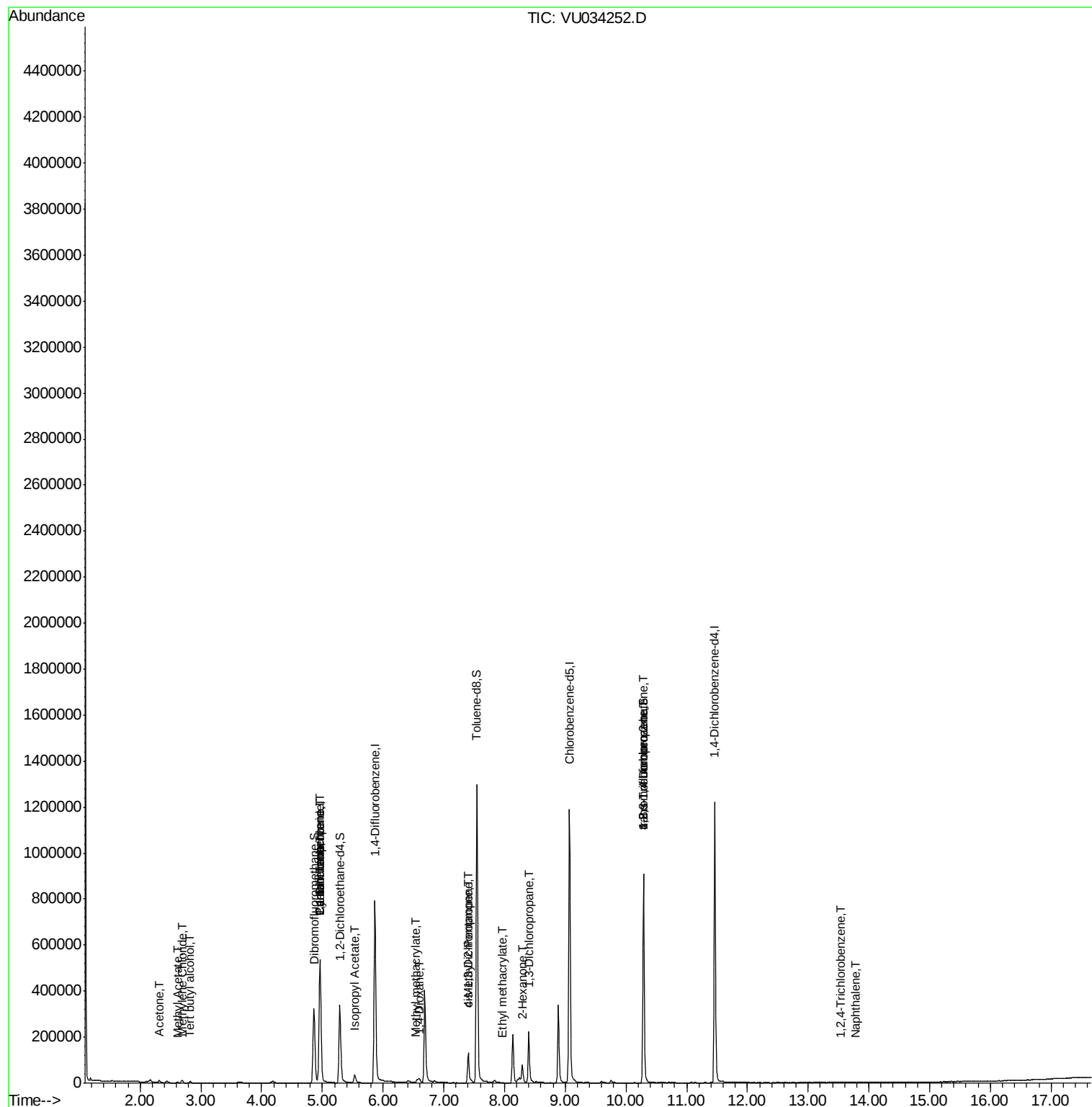
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	596	Below Cal	#	71
5) Bromomethane	1.63	94	790	Below Cal		90
11) Tert butyl alcohol	2.82	59	4645	3.595	ug/l #	73
16) Acetone	2.31	43	11960	4.184	ug/l	99
18) Methyl Acetate	2.61	43	3035	0.411	ug/l	96
20) Methylene Chloride	2.69	84	5257	0.971	ug/l	94
31) Cyclohexane	4.97	56	9035	1.080	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31312	4.728	ug/l #	49
38) Carbon Tetrachloride	4.96	117	40310	6.305	ug/l #	17
43) Isopropyl Acetate	5.53	43	43558	3.860	ug/l	98
48) Methyl methacrylate	6.53	41	5278	0.969	ug/l #	14
49) 1,4-Dioxane	6.60	88	45	0.330	ug/l #	22
51) 4-Methyl-2-Pentanone	7.40	43	47686	6.120	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	25047	2.972	ug/l #	60
56) Ethyl methacrylate	7.96	69	76	0.980	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	2229	0.251	ug/l #	42
59) 2-Hexanone	8.29	43	63807	10.847	ug/l #	23
76) 1,2,3-Trichloropropane	10.29	75	147283	19.273	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	147283	64.898	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.54	180	130	1.131	ug/l #	83
95) Naphthalene	13.77	128	500	1.813	ug/l #	70

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

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Quant Time: Sep 05 03:37:44 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
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# 1204

Delta R.T. 0.00 min

Lab File: VU034252.D

Acq: 04 Sep 2019 13:01

Instrument :

MSVOA_U

ClientSampleId :

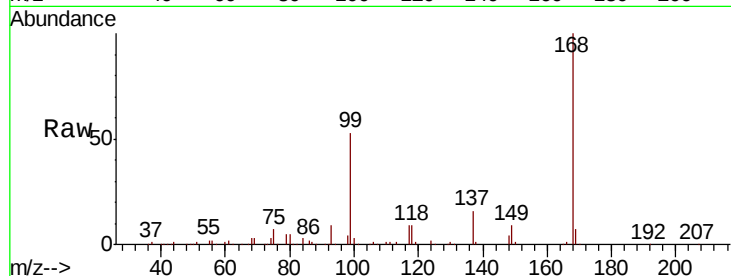
T3-S-B4-(0)

Tgt Ion:168 Resp: 437223

Ion Ratio Lower Upper

168 100

99 53.0 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

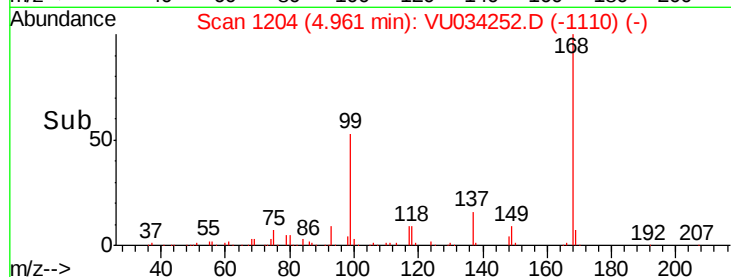
100000

50000

0

4.90 4.96 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034252.D

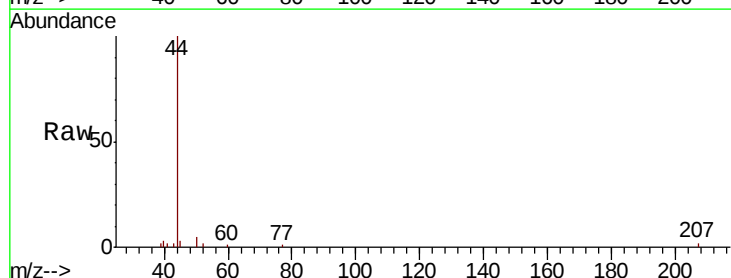
Acq: 04 Sep 2019 13:01

Tgt Ion: 50 Resp: 596

Ion Ratio Lower Upper

50 100

52 49.0 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

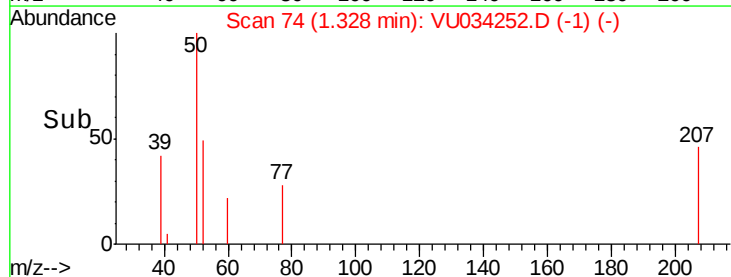
200

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: VU034252.D

Acq: 04 Sep 2019 13:01

Instrument :

MSVOA_U

ClientSampleId :

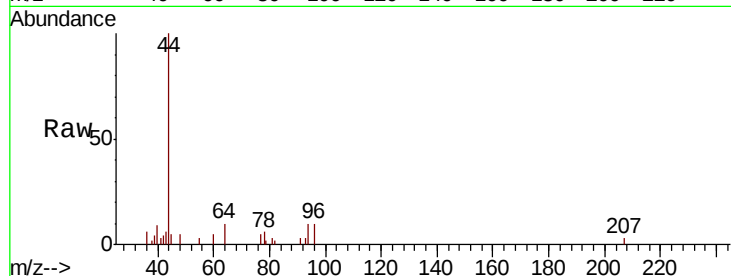
T3-S-B4-(0)

Tgt Ion: 94 Resp: 790

Ion Ratio Lower Upper

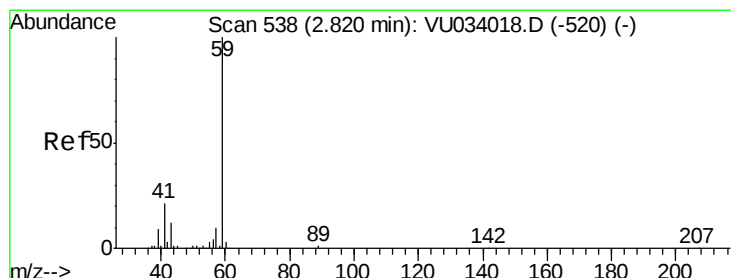
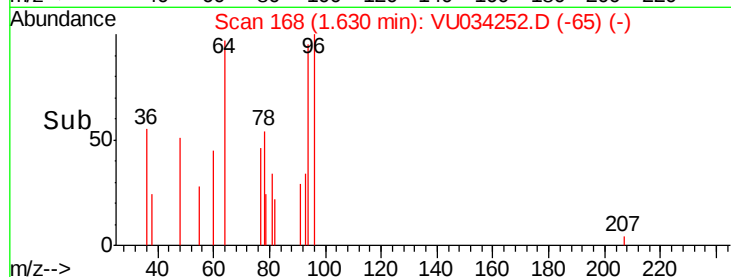
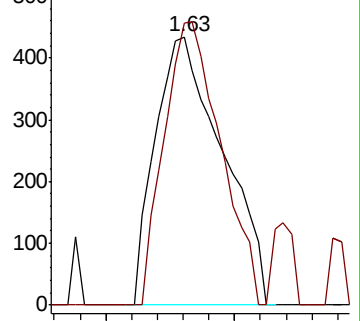
94 100

96 105.1 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#11

Tert butyl alcohol

Concen: 3.595 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU034252.D

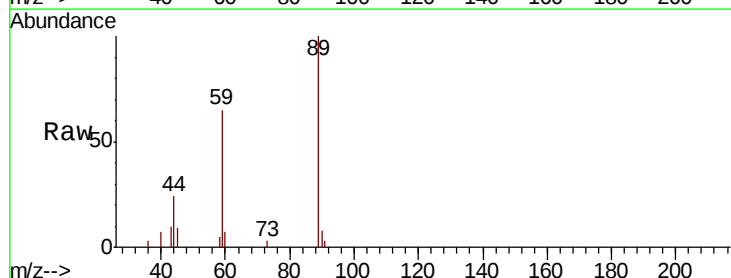
Acq: 04 Sep 2019 13:01

Tgt Ion: 59 Resp: 4645

Ion Ratio Lower Upper

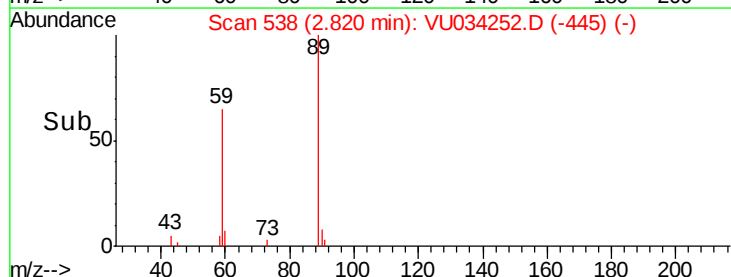
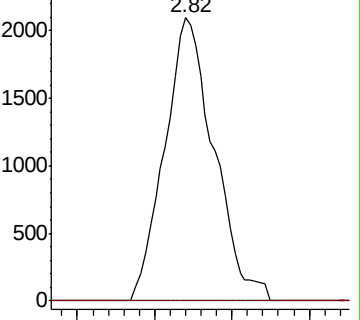
59 100

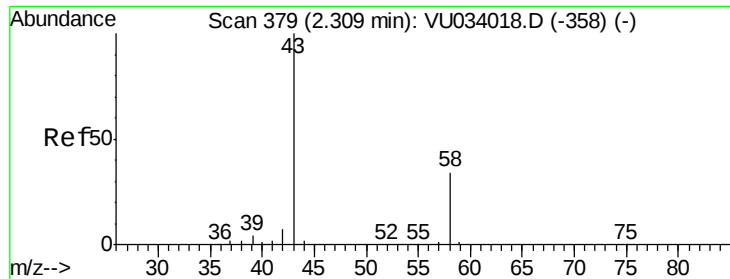
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#16

Acetone

Concen: 4.184 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034252.D

Acq: 04 Sep 2019 13:01

Instrument :

MSVOA_U

ClientSampleId :

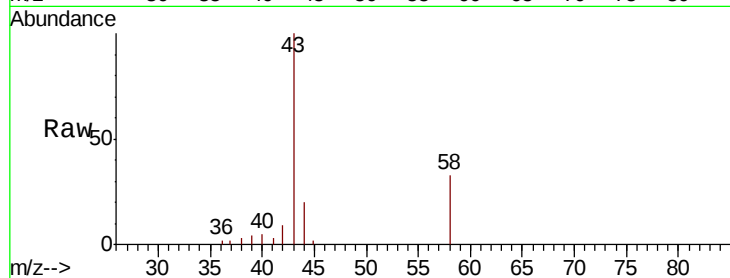
T3-S-B4-(0)

Tgt Ion: 43 Resp: 11960

Ion Ratio Lower Upper

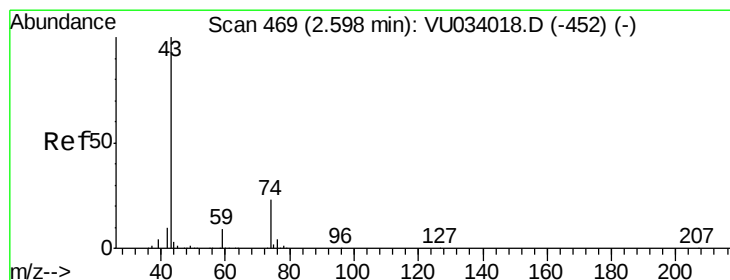
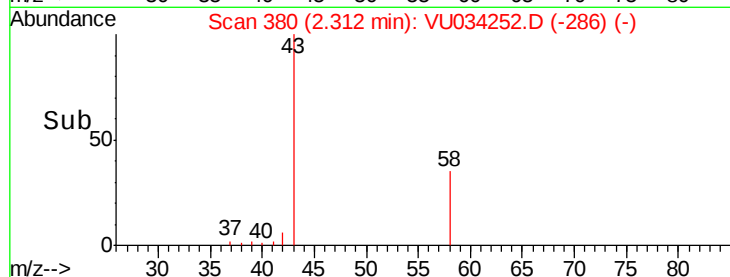
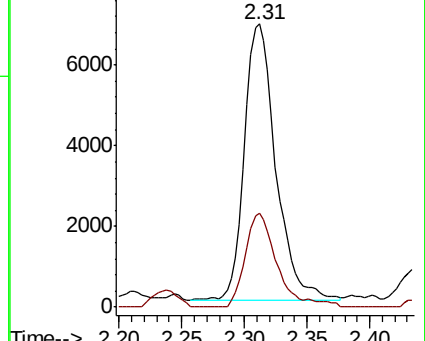
43 100

58 34.2 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034018.D (-358) (-)



#18

Methyl Acetate

Concen: 0.411 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.02 min

Lab File: VU034252.D

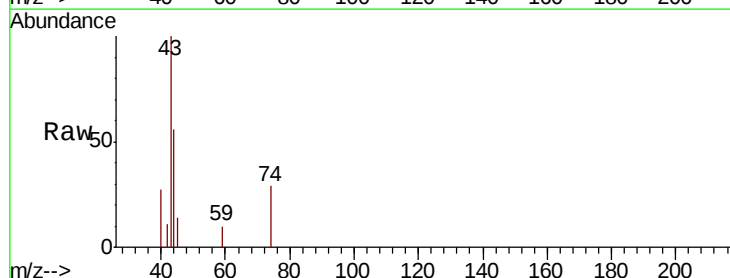
Acq: 04 Sep 2019 13:01

Tgt Ion: 43 Resp: 3035

Ion Ratio Lower Upper

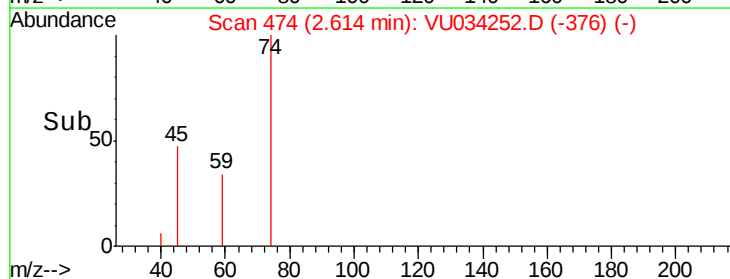
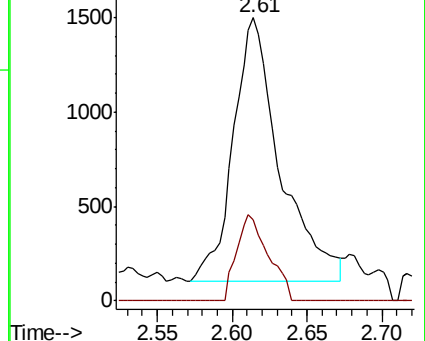
43 100

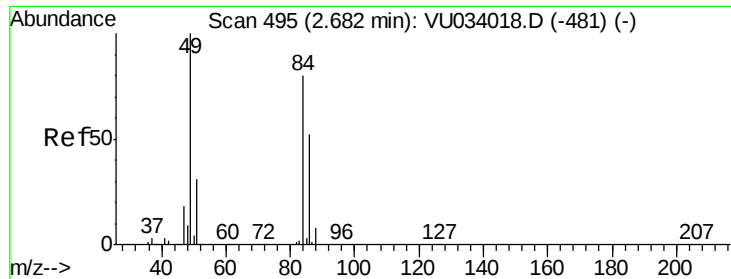
74 22.1 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-452) (-)

Ion 74.00 (73.70 to 74.70): VU034018.D (-452) (-)

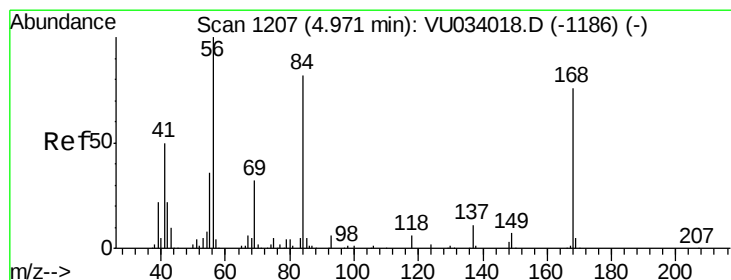
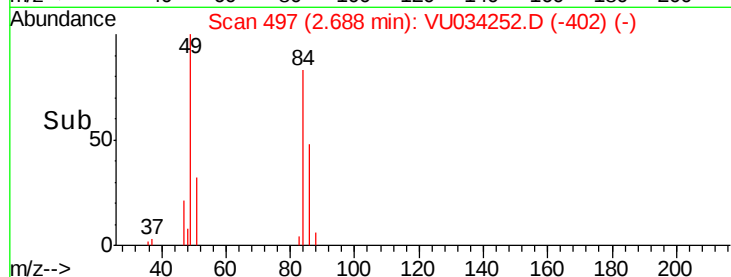
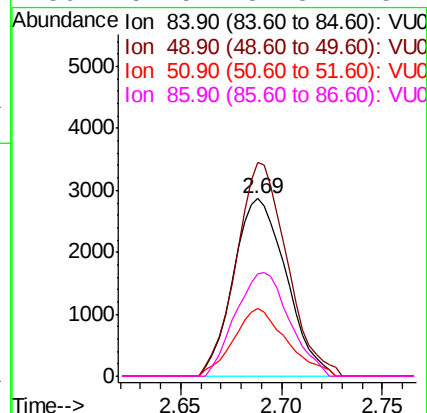
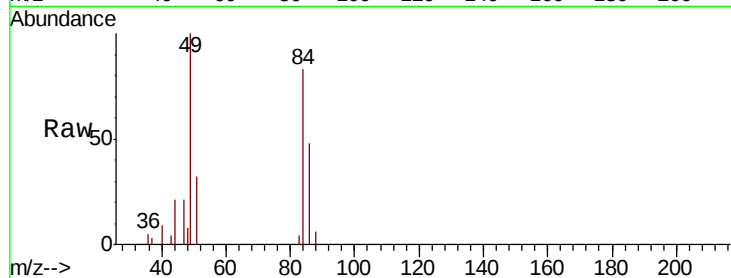




#20
Methylene Chloride
Concen: 0.971 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034252.D
Acq: 04 Sep 2019 13:01

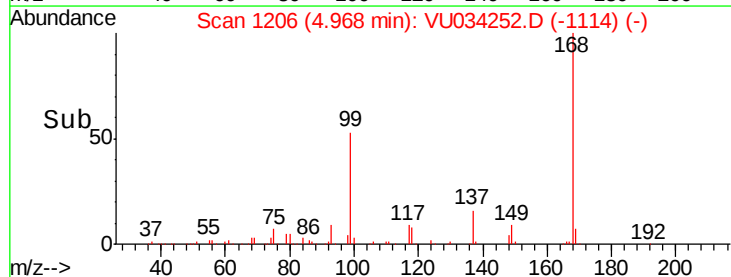
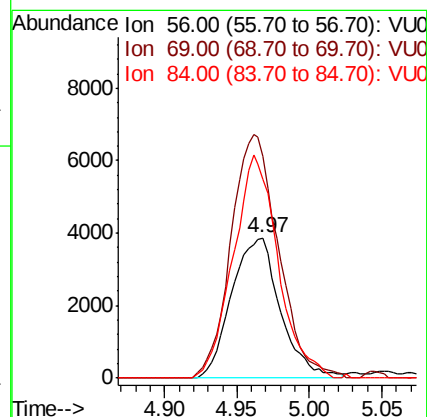
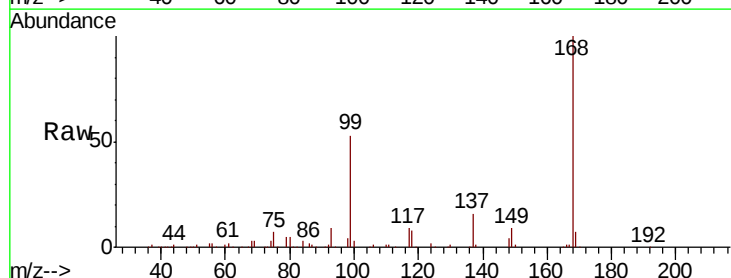
Instrument :
MSVOA_U
ClientSampleId :
T3-S-B4-(0)

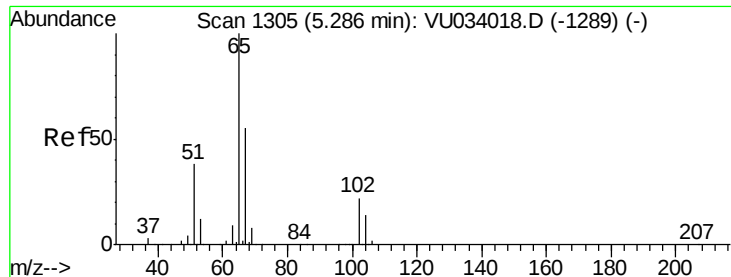
Tgt Ion:	84	Resp:	5257
Ion	Ratio	Lower	Upper
84	100		
49	120.1	100.2	150.4
51	38.2	30.8	46.2
86	57.5	52.5	78.7



#31
Cyclohexane
Concen: 1.080 ug/l
RT: 4.97 min Scan# 1206
Delta R.T. -0.00 min
Lab File: VU034252.D
Acq: 04 Sep 2019 13:01

Tgt Ion:	56	Resp:	9035
Ion	Ratio	Lower	Upper
56	100		
69	158.2	25.4	38.0#
84	141.8	65.8	98.8#





#33

1,2-Dichloroethane-d4

Concen: 48.391 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034252.D

Acq: 04 Sep 2019 13:01

Instrument :

MSVOA_U

ClientSampled :

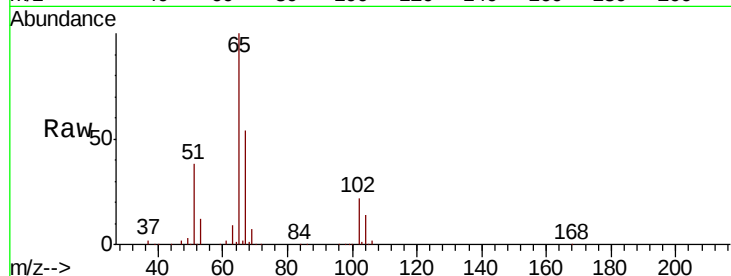
T3-S-B4-(0)

Tgt Ion: 65 Resp: 271102

Ion Ratio Lower Upper

65 100

67 54.0 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

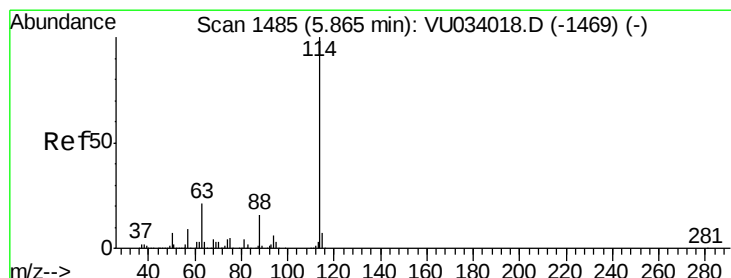
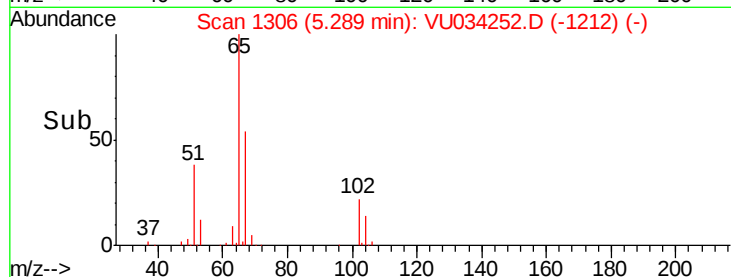
100000

50000

0

Time-->

5.20 5.30 5.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VU034252.D

Acq: 04 Sep 2019 13:01

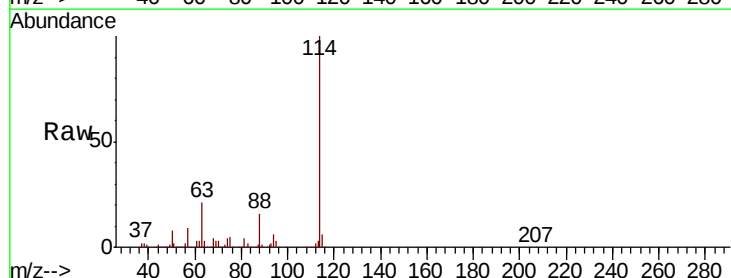
Tgt Ion: 114 Resp: 700196

Ion Ratio Lower Upper

114 100

63 20.9 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) (-)

5.86

400000

300000

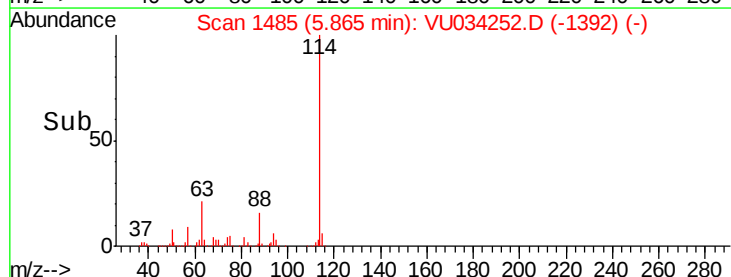
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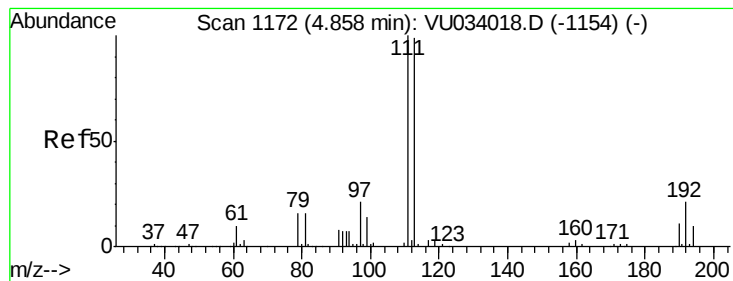
100000

0

Time-->

5.80 5.90 6.00





#35

Dibromofluoromethane

Concen: 47.563 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034252.D

Acq: 04 Sep 2019 13:01

Instrument :

MSVOA_U

ClientSampled :

T3-S-B4-(0)

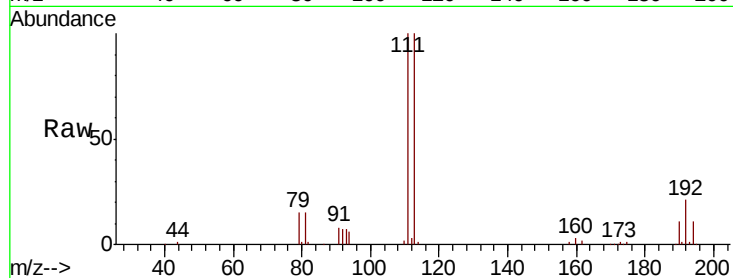
Tgt Ion:113 Resp: 230990

Ion Ratio Lower Upper

113 100

111 102.8 81.7 122.5

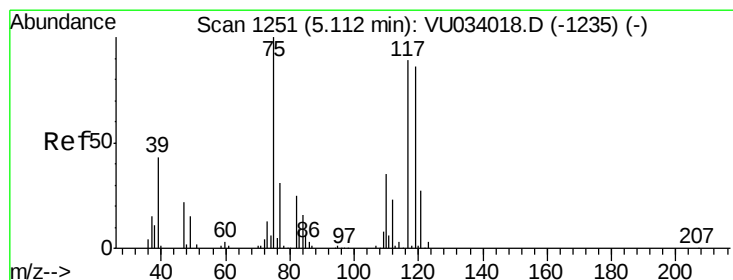
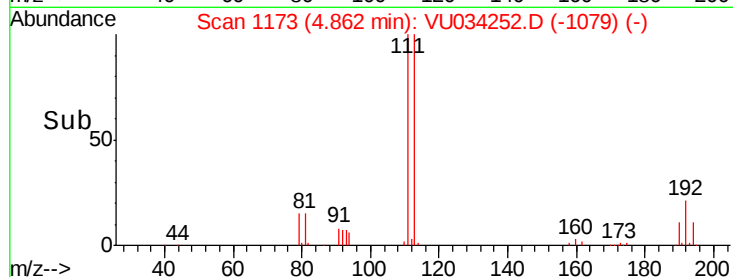
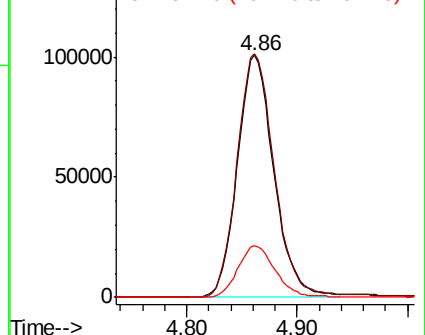
192 22.0 17.1 25.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.728 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034252.D

Acq: 04 Sep 2019 13:01

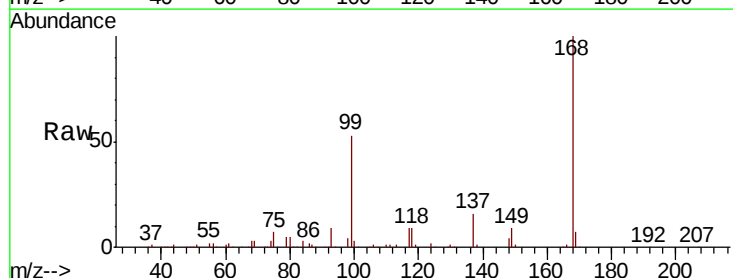
Tgt Ion: 75 Resp: 31312

Ion Ratio Lower Upper

75 100

110 8.6 17.8 53.5#

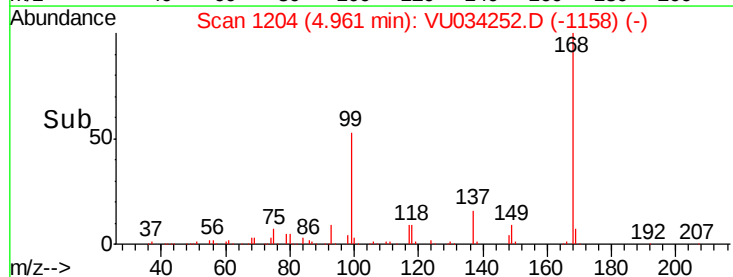
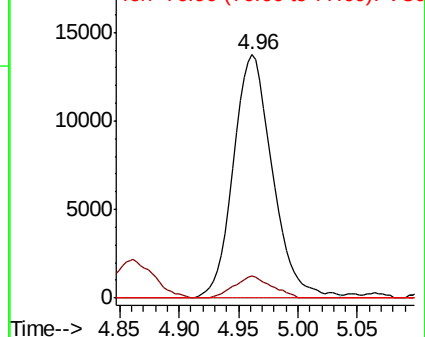
77 0.0 25.0 37.4#

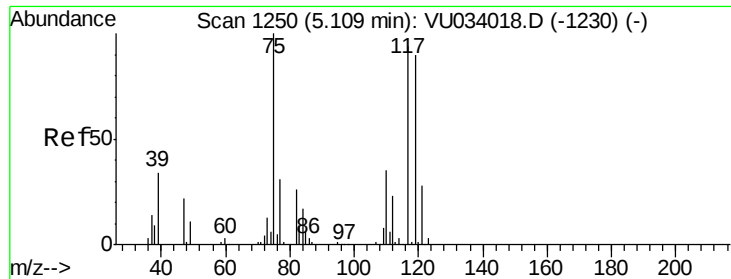


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

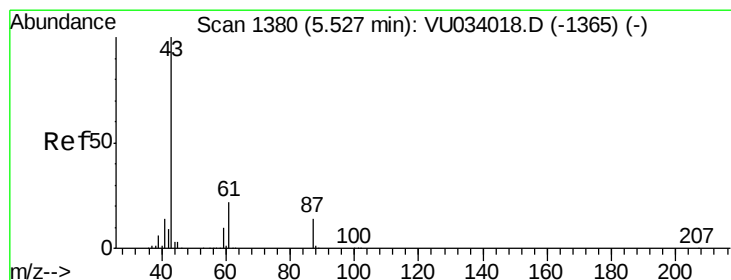
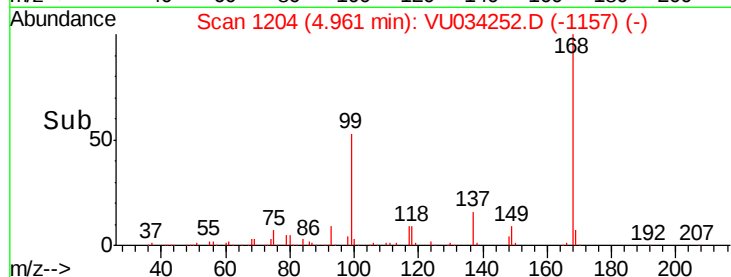
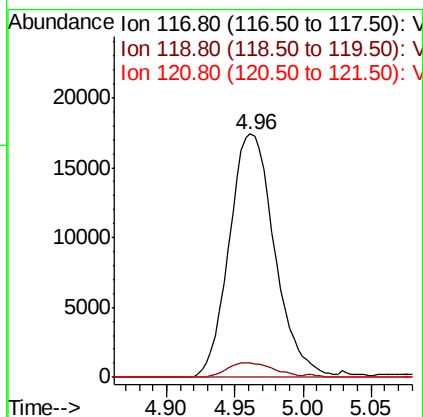
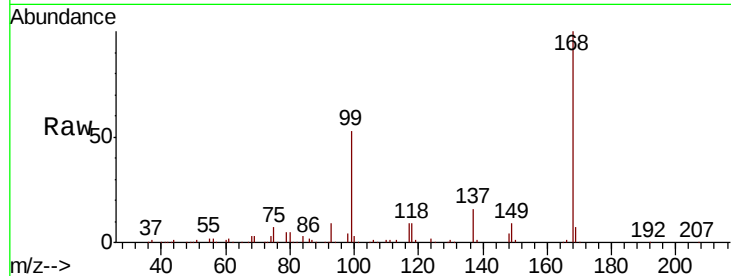




#38
Carbon Tetrachloride
Concen: 6.305 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.15 min
Lab File: VU034252.D
Acq: 04 Sep 2019 13:01

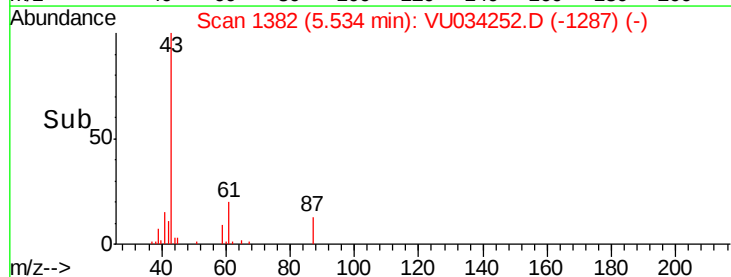
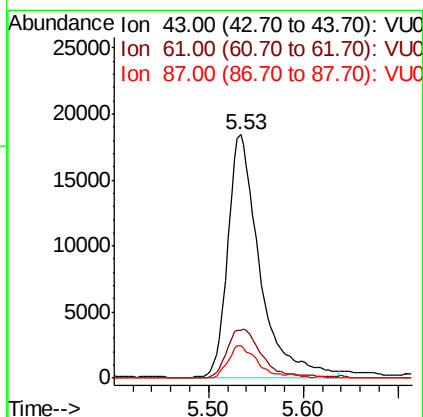
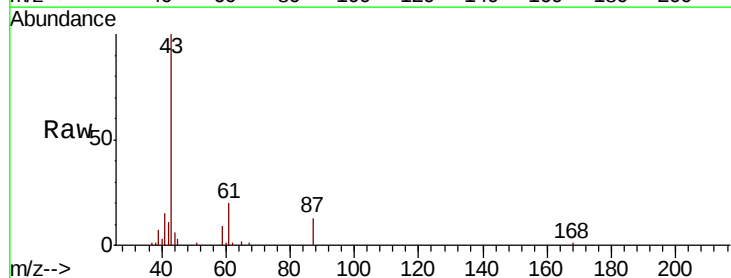
Instrument :
MSVOA_U
ClientSampleId :
T3-S-B4-(0)

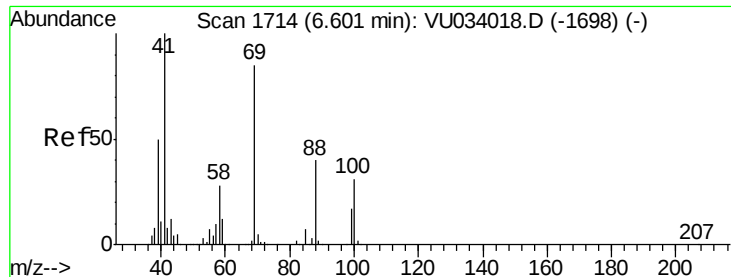
Tgt Ion: 117 Resp: 40310
Ion Ratio Lower Upper
117 100
119 6.0 77.0 115.4#
121 0.0 23.9 35.9#



#43
Isopropyl Acetate
Concen: 3.860 ug/l
RT: 5.53 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VU034252.D
Acq: 04 Sep 2019 13:01

Tgt Ion: 43 Resp: 43558
Ion Ratio Lower Upper
43 100
61 21.0 17.2 25.8
87 12.0 10.8 16.2

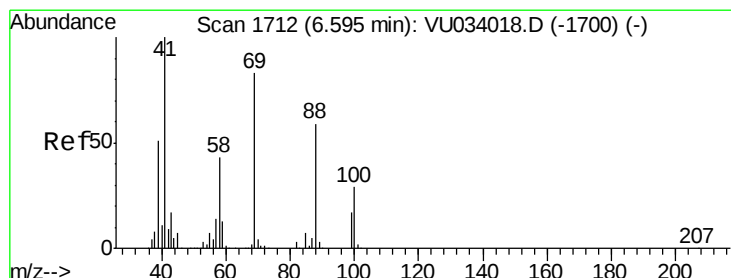
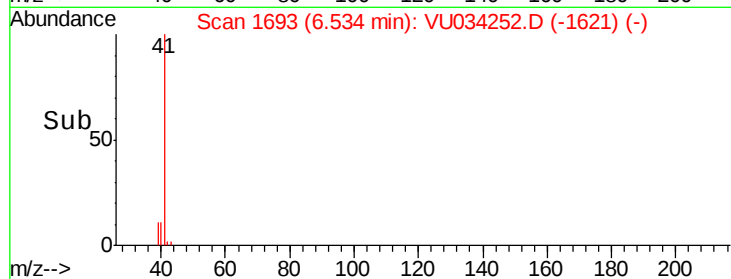
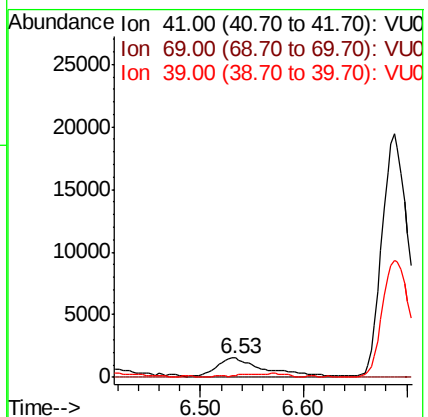
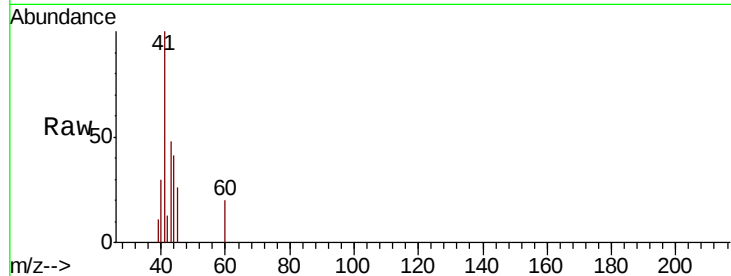




#48
Methyl methacrylate
Concen: 0.969 ug/l
RT: 6.53 min Scan# 1693
Delta R.T. -0.07 min
Lab File: VU034252.D
Acq: 04 Sep 2019 13:01

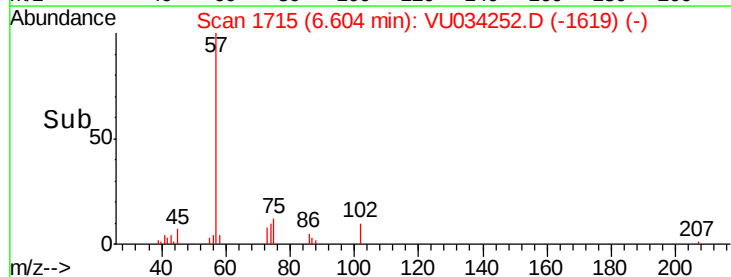
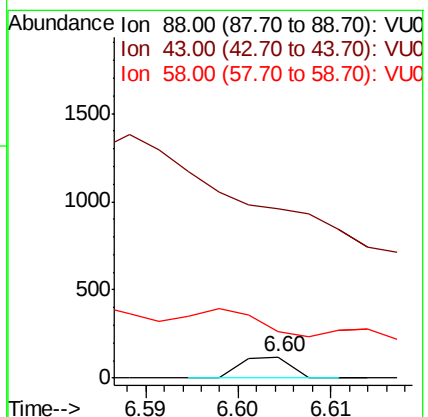
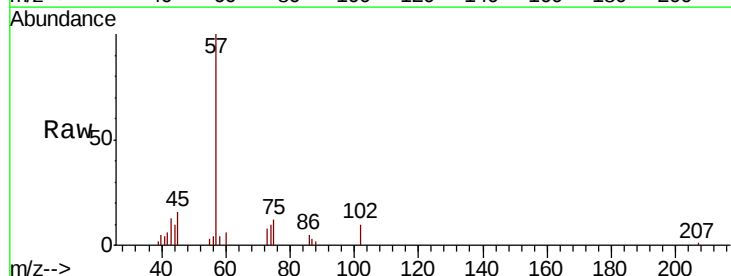
Instrument :
MSVOA_U
ClientSampleId :
T3-S-B4-(0)

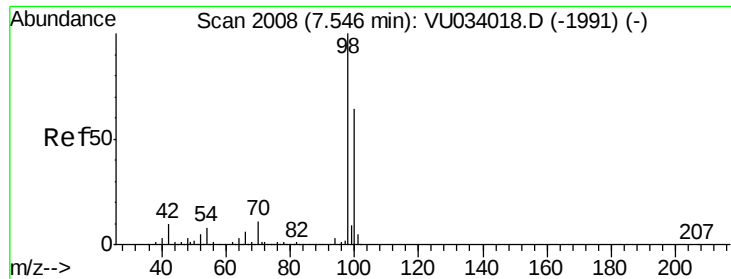
Tgt Ion: 41 Resp: 5278
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#49
1,4-Dioxane
Concen: 0.330 ug/l
RT: 6.60 min Scan# 1715
Delta R.T. 0.01 min
Lab File: VU034252.D
Acq: 04 Sep 2019 13:01

Tgt Ion: 88 Resp: 45
Ion Ratio Lower Upper
88 100
43 0.0 24.8 37.2#
58 0.0 59.3 88.9#

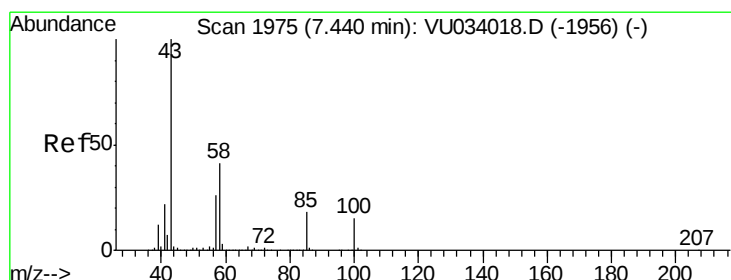
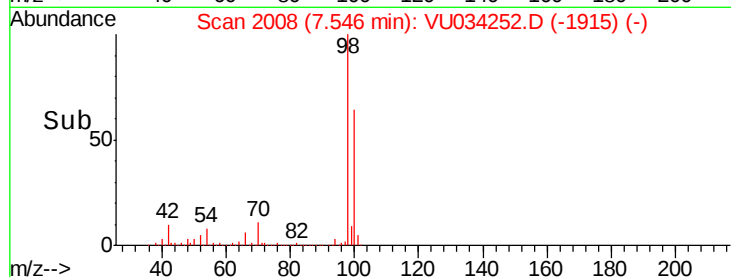
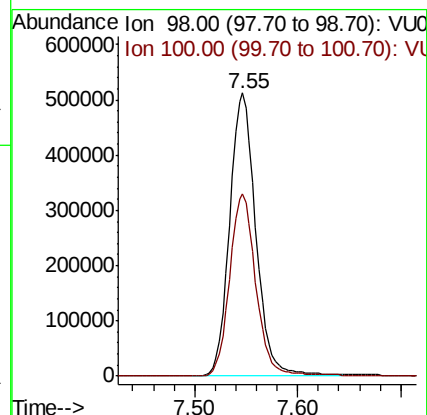
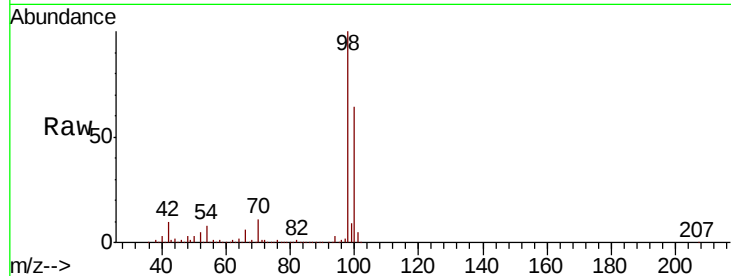




#50
Toluene-d8
Concen: 50.056 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034252.D
Acq: 04 Sep 2019 13:01

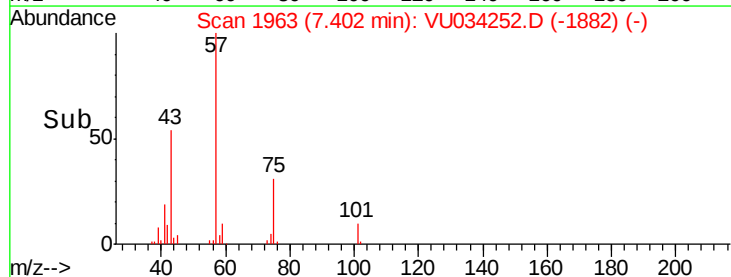
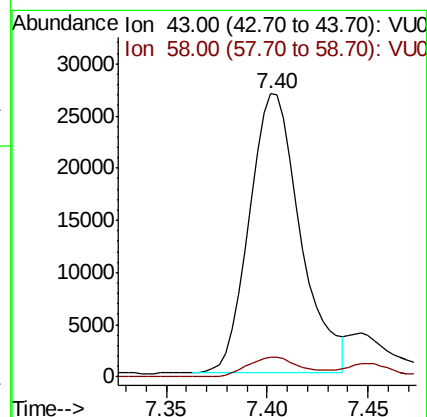
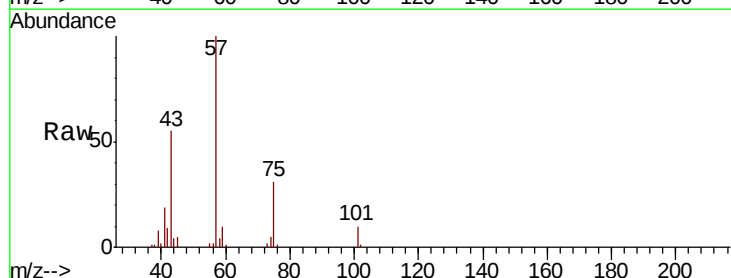
Instrument :
MSVOA_U
ClientSampleId :
T3-S-B4-(0)

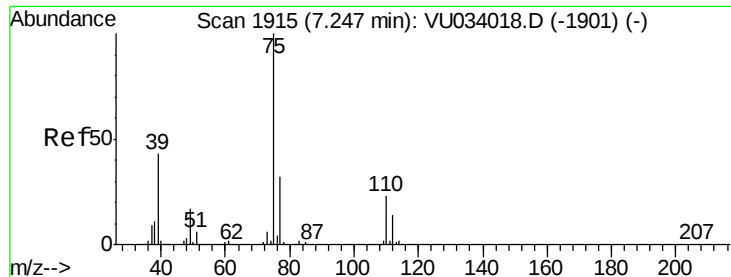
Tgt Ion: 98 Resp: 910237
Ion Ratio Lower Upper
98 100
100 64.7 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 6.120 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034252.D
Acq: 04 Sep 2019 13:01

Tgt Ion: 43 Resp: 47686
Ion Ratio Lower Upper
43 100
58 7.4 32.2 48.4#

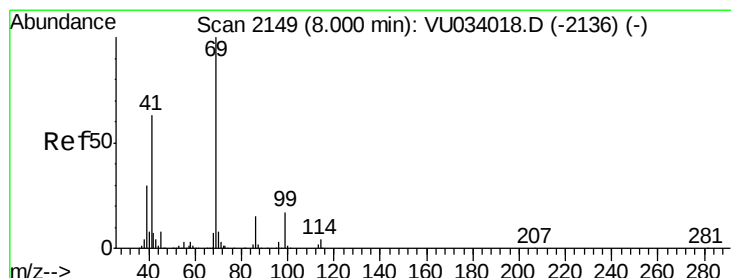
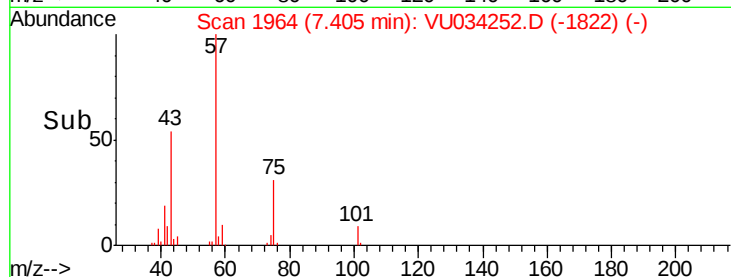
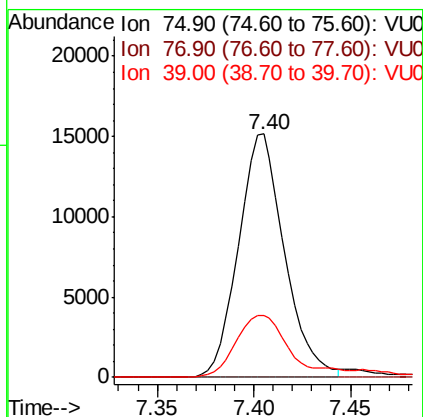
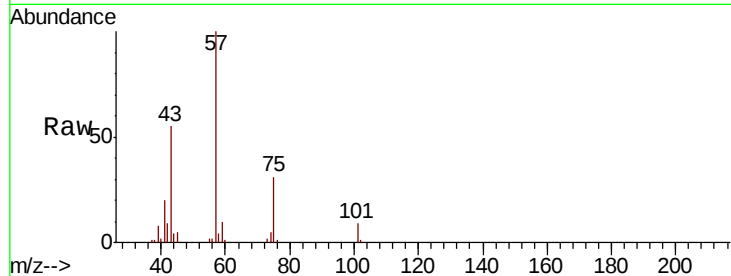




#54
 cis-1,3-Dichloropropene
 Concen: 2.972 ug/l
 RT: 7.40 min Scan# 1964
 Delta R.T. 0.16 min
 Lab File: VU034252.D
 Acq: 04 Sep 2019 13:01

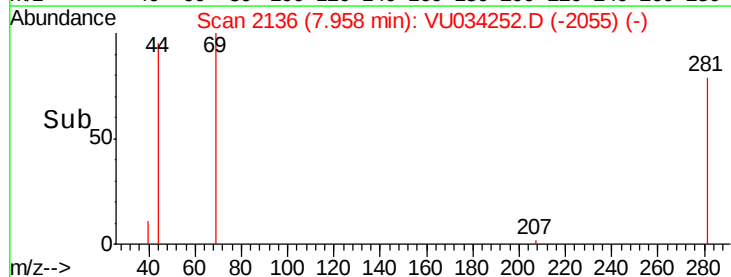
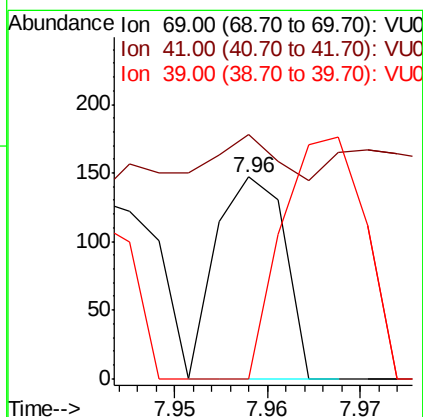
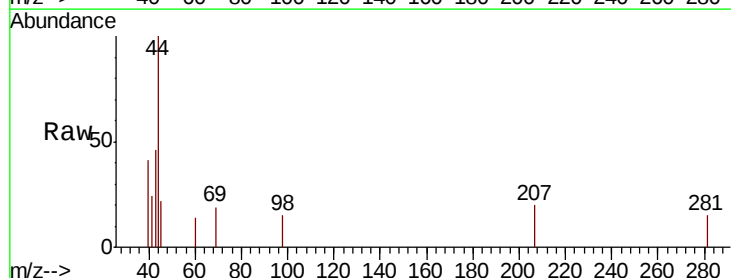
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-B4-(0)

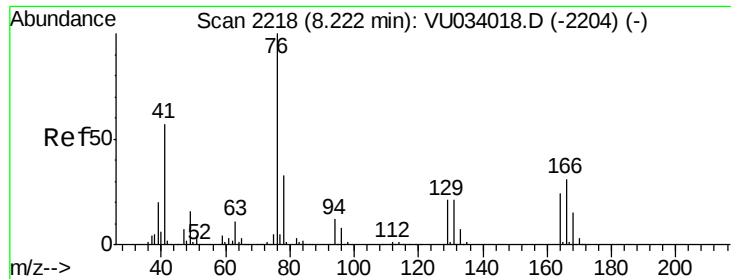
Tgt Ion: 75 Resp: 25047
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 25.6 34.6 51.8#



#56
 Ethyl methacrylate
 Concen: 0.980 ug/l
 RT: 7.96 min Scan# 2136
 Delta R.T. -0.04 min
 Lab File: VU034252.D
 Acq: 04 Sep 2019 13:01

Tgt Ion: 69 Resp: 76
 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: 0.251 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034252.D

Acq: 04 Sep 2019 13:01

Instrument :

MSVOA_U

ClientSampleId :

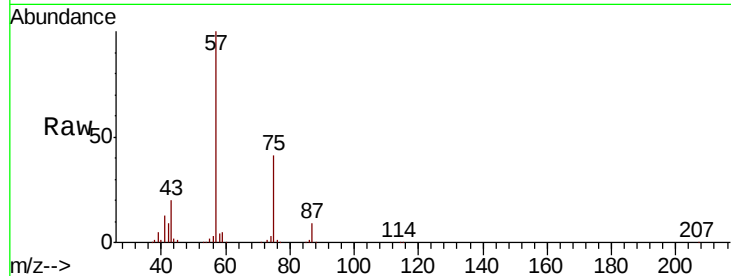
T3-S-B4-(0)

Tgt Ion: 76 Resp: 2229

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU034018.D (-2204) (-)

Ion 77.90 (77.60 to 78.60): VU034018.D (-2204) (-)

8.40

1500

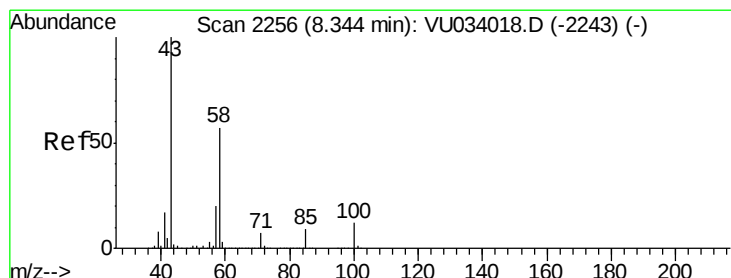
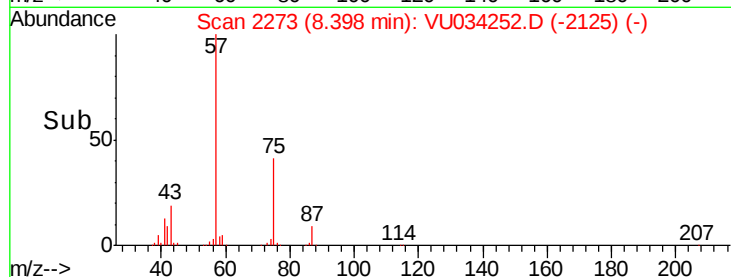
1000

500

0

8.35 8.40 8.45

Time-->



#59

2-Hexanone

Concen: 10.847 ug/l

RT: 8.29 min Scan# 2240

Delta R.T. -0.05 min

Lab File: VU034252.D

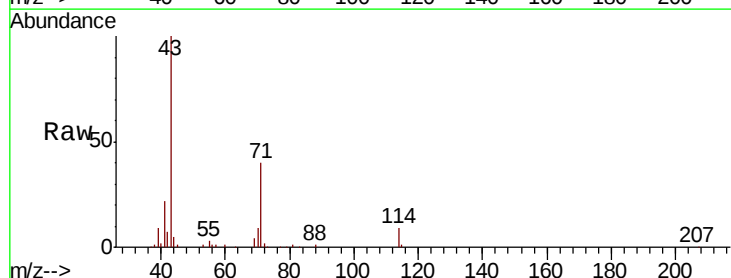
Acq: 04 Sep 2019 13:01

Tgt Ion: 43 Resp: 63807

Ion Ratio Lower Upper

43 100

58 0.0 28.4 85.3#



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-2243) (-)

Ion 58.00 (57.70 to 58.70): VU034018.D (-2243) (-)

8.29

40000

30000

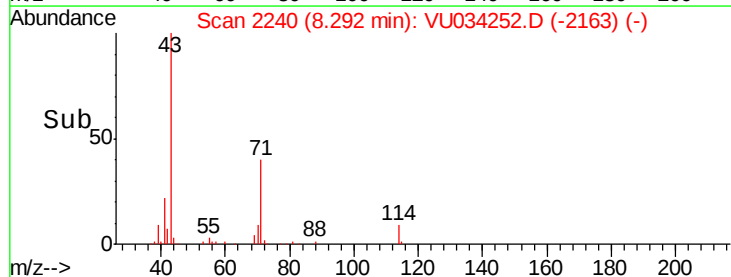
20000

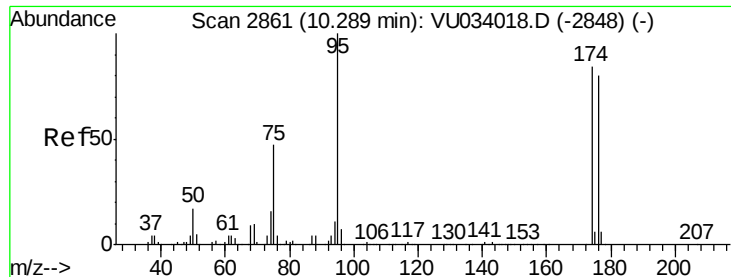
10000

0

8.25 8.30 8.35

Time-->

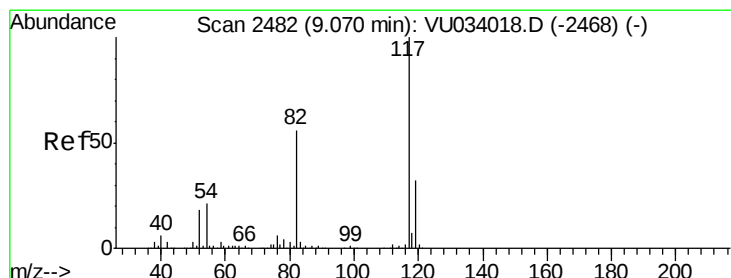
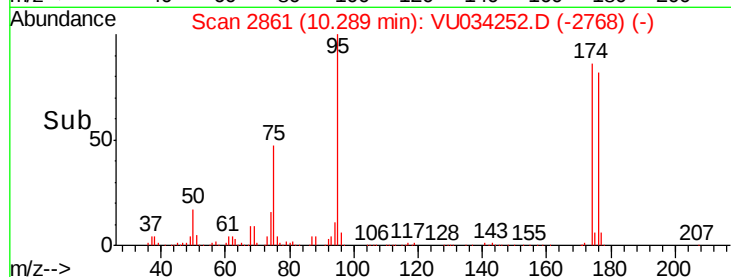
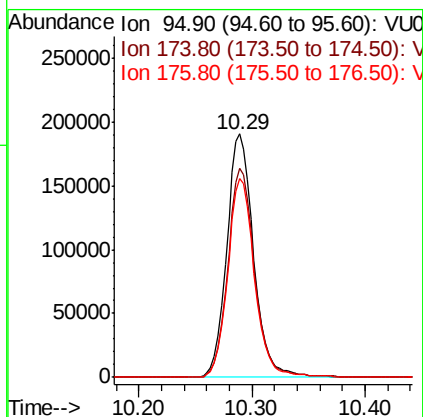
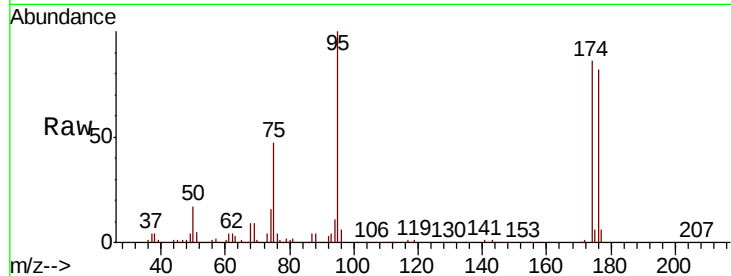




#62
4-Bromofluorobenzene
Concen: 44.391 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034252.D
Acq: 04 Sep 2019 13:01

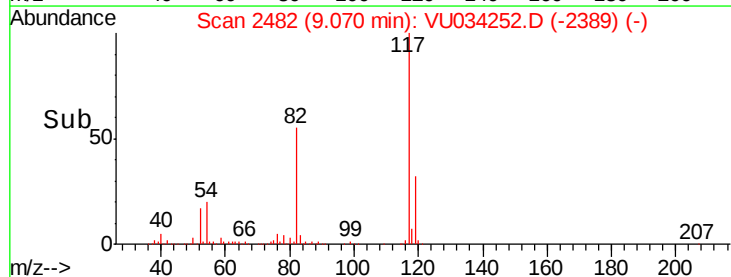
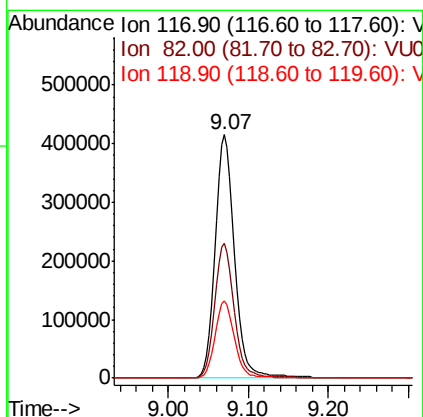
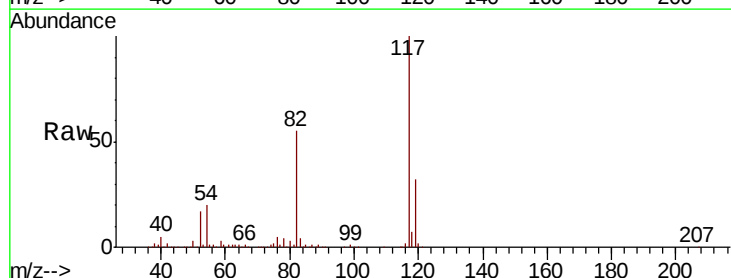
Instrument :
MSVOA_U
ClientSampleId :
T3-S-B4-(0)

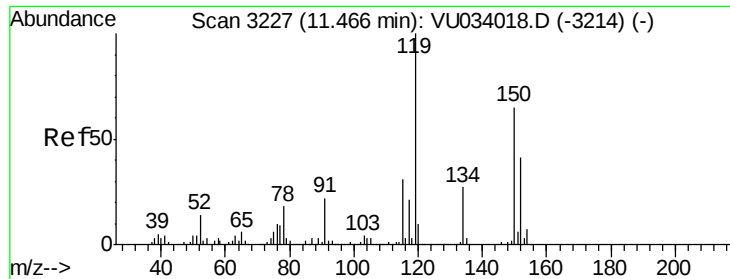
Tgt Ion: 95 Resp: 314002
Ion Ratio Lower Upper
95 100
174 86.7 0.0 168.8
176 82.0 0.0 161.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034252.D
Acq: 04 Sep 2019 13:01

Tgt Ion: 117 Resp: 702574
Ion Ratio Lower Upper
117 100
82 55.2 45.1 67.7
119 31.7 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034252.D

Acq: 04 Sep 2019 13:01

Instrument :

MSVOA_U

ClientSampleId :

T3-S-B4-(0)

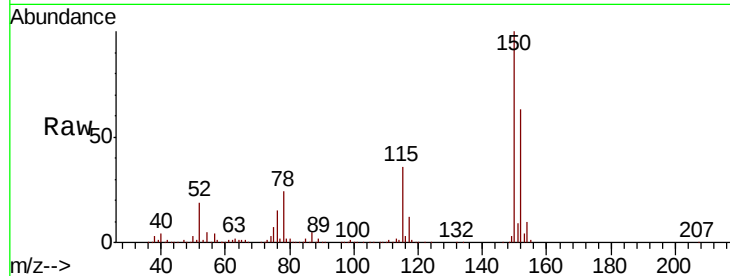
Tgt Ion:152 Resp: 339058

Ion Ratio Lower Upper

152 100

115 56.7 41.1 123.3

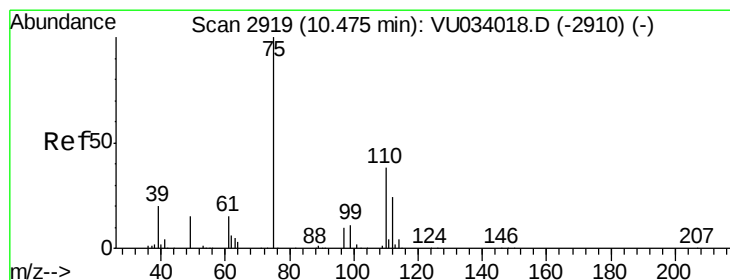
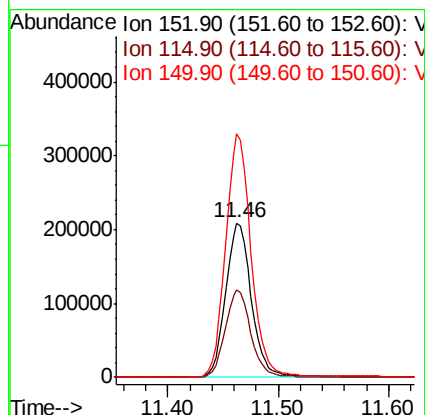
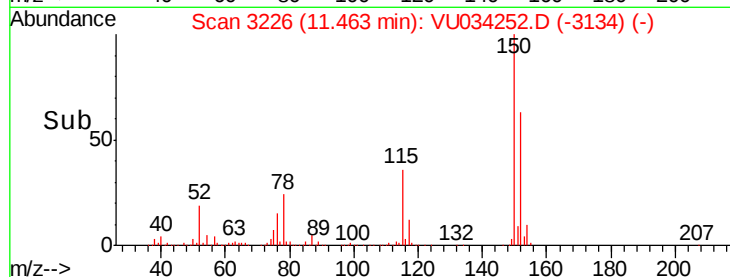
150 156.5 0.0 348.8



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: 19.273 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034252.D

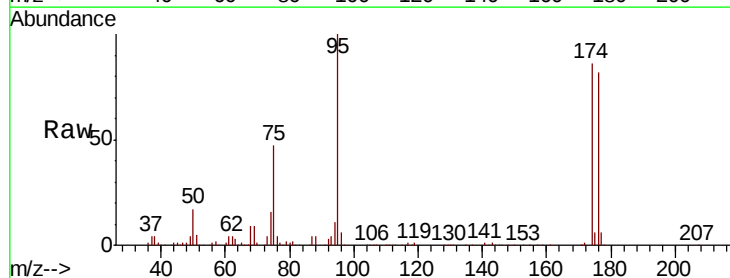
Acq: 04 Sep 2019 13:01

Tgt Ion: 75 Resp: 147283

Ion Ratio Lower Upper

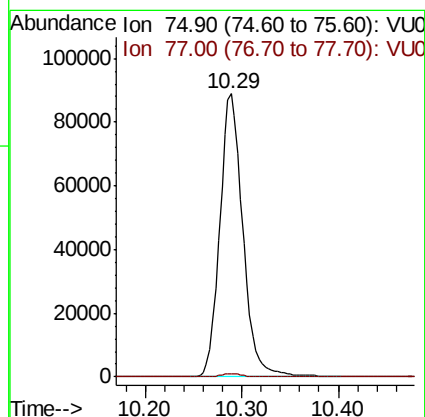
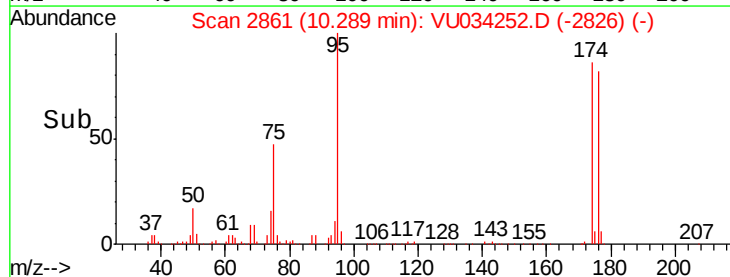
75 100

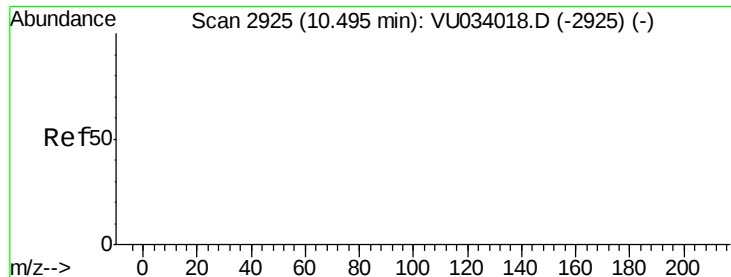
77 1.1 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

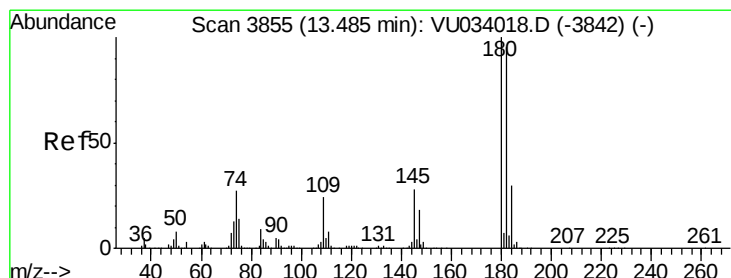
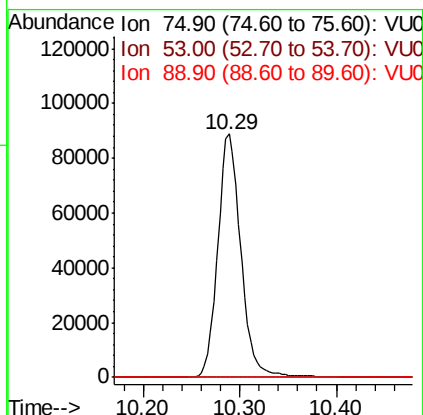
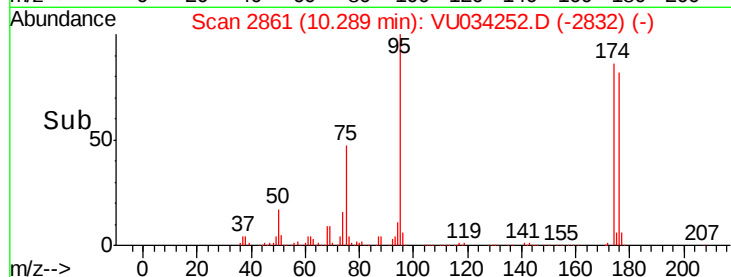
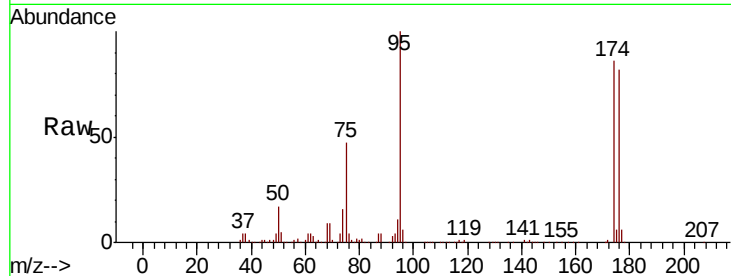




#81
trans-1,4-Dichloro-2-butene
Concen: 64.898 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.21 min
Lab File: VU034252.D
Acq: 04 Sep 2019 13:01

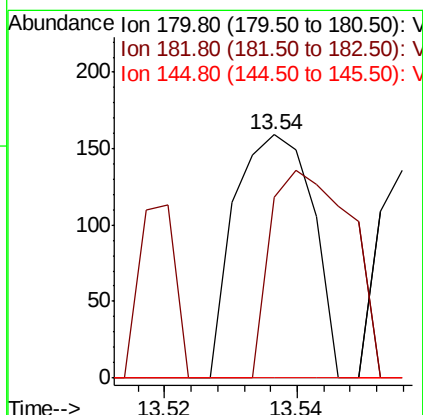
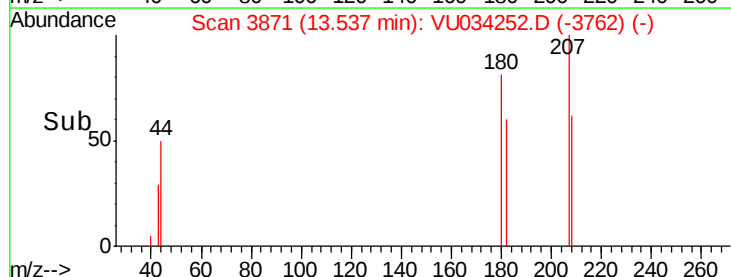
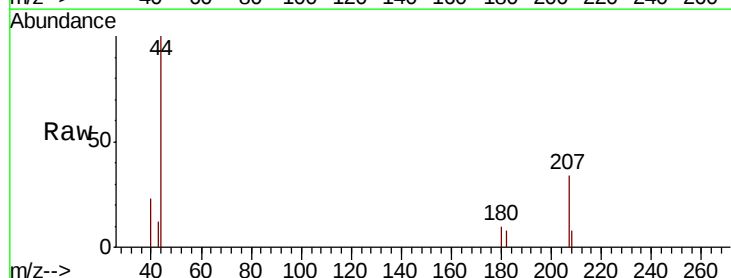
Instrument :
MSVOA_U
ClientSampleId :
T3-S-B4-(0)

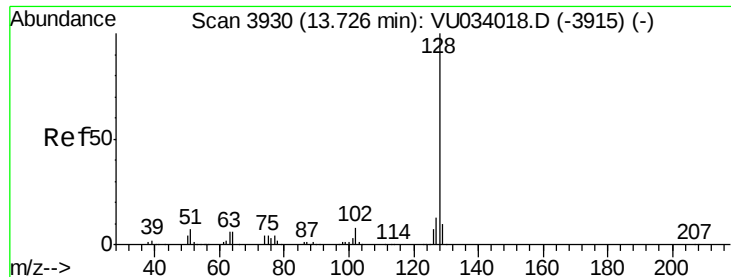
Tgt Ion: 75 Resp: 147283
Ion Ratio Lower Upper
75 100
53 0.1 0.0 0.0#
89 0.0 0.0 0.0



#93
1,2,4-Trichlorobenzene
Concen: 1.131 ug/l
RT: 13.54 min Scan# 3871
Delta R.T. 0.05 min
Lab File: VU034252.D
Acq: 04 Sep 2019 13:01

Tgt Ion: 180 Resp: 130
Ion Ratio Lower Upper
180 100
182 88.5 47.4 142.2
145 0.0 14.1 42.3#





#95

Naphthalene

Concen: 1.813 ug/l

RT: 13.77 min Scan# 3945

Delta R.T. 0.05 min

Lab File: VU034252.D

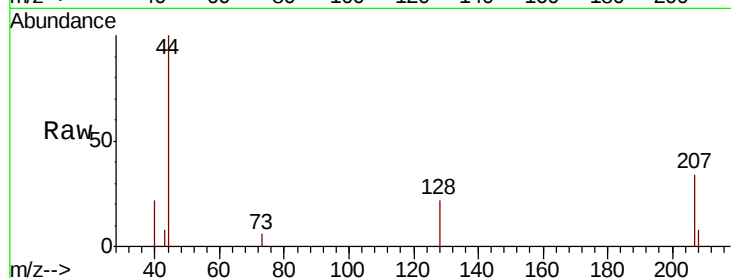
Acq: 04 Sep 2019 13:01

Instrument :

MSVOA_U

ClientSampleId :

T3-S-B4-(0)



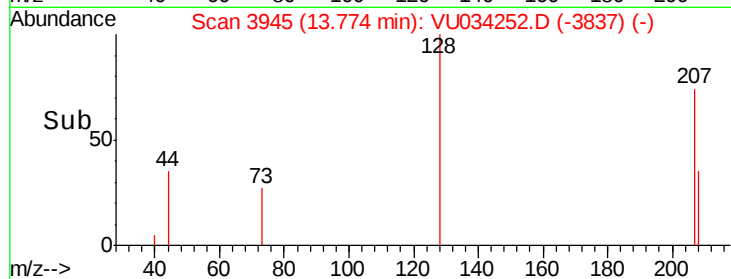
Tgt Ion:128 Resp: 500

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

600

500

400

300

200

100

0

Time-->