

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090719\
 Data File : VU034339.D
 Acq On : 06 Sep 2019 18:30
 Operator : JC/SP
 Sample : K4581-20
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T12-B4-(3.5)

Quant Time: Sep 07 04:09:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	300607	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	455371	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	452394	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	268310	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	240289	52.83	ug/l	0.00
Spiked Amount			Recovery	=	105.66%	
35) Dibromofluoromethane	4.86	113	212275	50.10	ug/l	0.00
Spiked Amount			Recovery	=	100.20%	
50) Toluene-d8	7.55	98	807240	50.71	ug/l	0.00
Spiked Amount			Recovery	=	101.42%	
62) 4-Bromofluorobenzene	10.29	95	288590	46.95	ug/l	0.00
Spiked Amount			Recovery	=	93.90%	

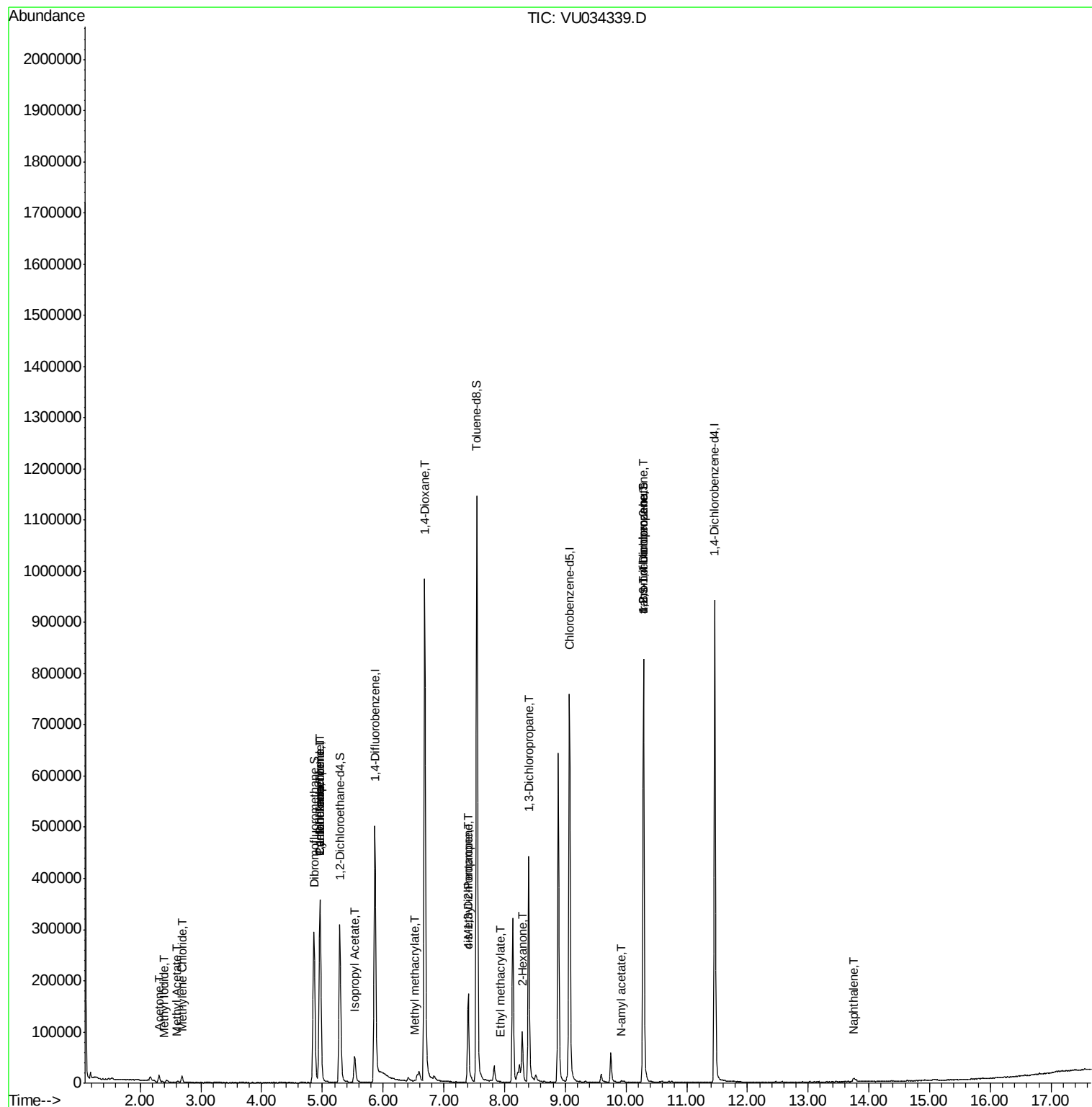
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	598	Below Cal		85
6) Chloroethane	1.65	64	131	Below Cal	#	43
10) Methyl Iodide	2.40	142	106	3.877	ug/l #	43
16) Acetone	2.31	43	15406	6.545	ug/l	96
18) Methyl Acetate	2.61	43	3542	0.618	ug/l #	78
20) Methylene Chloride	2.69	84	6065	1.183	ug/l	95
31) Cyclohexane	4.96	56	4677	0.878	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	20033	4.056	ug/l #	48
38) Carbon Tetrachloride	4.96	117	27039	5.128	ug/l #	15
43) Isopropyl Acetate	5.53	43	62717	6.885	ug/l	99
48) Methyl methacrylate	6.52	41	4072	0.941	ug/l #	13
49) 1,4-Dioxane	6.68	88	21	0.222	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	66085	10.481	ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	32956	4.812	ug/l #	64
56) Ethyl methacrylate	7.94	69	64	3.085	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	4555	0.616	ug/l #	43
59) 2-Hexanone	8.29	43	78860	16.742	ug/l #	22
74) N-amyl acetate	9.93	43	2387	0.340	ug/l #	40
76) 1,2,3-Trichloropropane	10.29	75	134238	22.920	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	134238	77.079	ug/l #	100
95) Naphthalene	13.75	128	12967	4.634	ug/l #	72

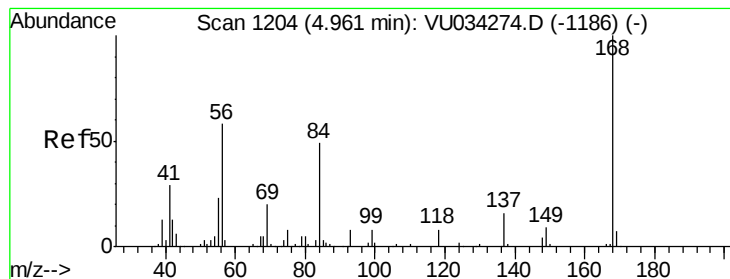
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034339.D

Acq: 06 Sep 2019 18:30

Instrument :

MSVOA_U

ClientSampleId :

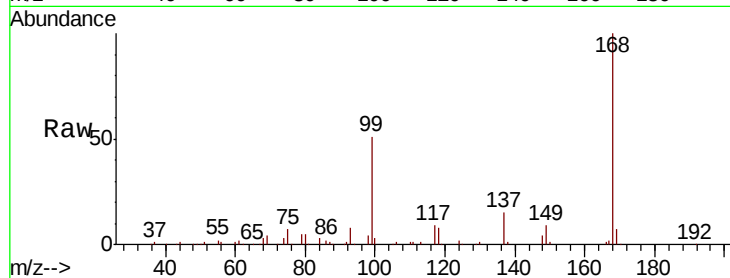
T12-B4-(3.5)

Tgt Ion:168 Resp: 300607

Ion Ratio Lower Upper

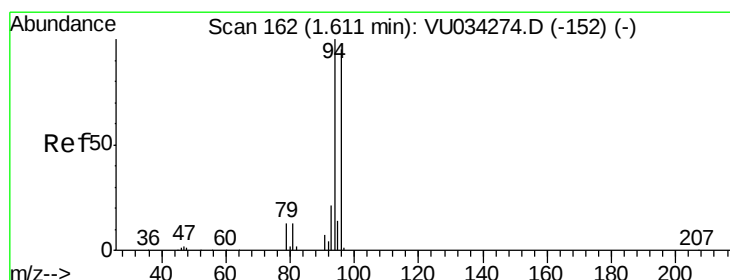
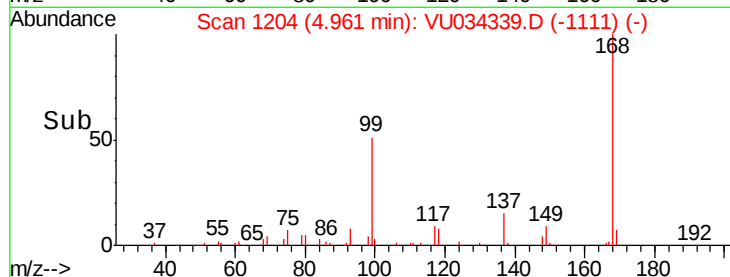
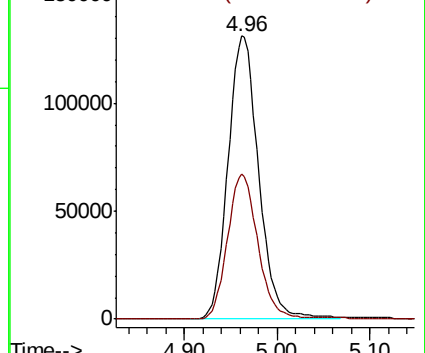
168 100

99 51.3 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034274.D (-1186) (-)



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 167

Delta R.T. 0.02 min

Lab File: VU034339.D

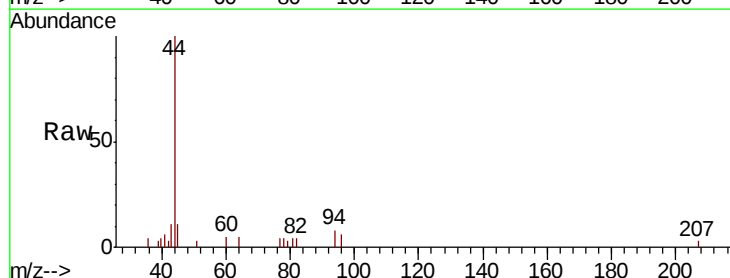
Acq: 06 Sep 2019 18:30

Tgt Ion: 94 Resp: 598

Ion Ratio Lower Upper

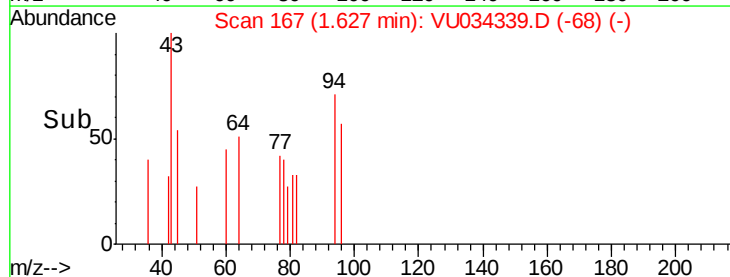
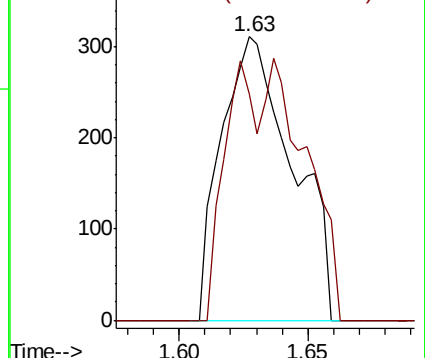
94 100

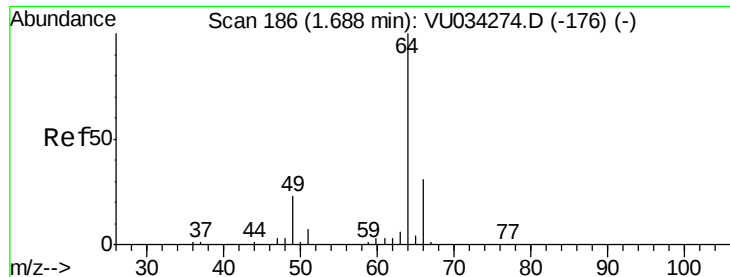
96 79.7 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VU034274.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034274.D (-152) (-)





#6

Chloroethane

Concen: Below Cal

RT: 1.65 min Scan# 173

Delta R.T. -0.04 min

Lab File: VU034339.D

Acq: 06 Sep 2019 18:30

Instrument :

MSVOA_U

ClientSampleId :

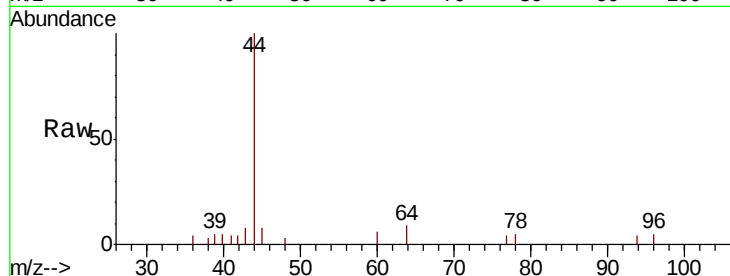
T12-B4-(3.5)

Tgt Ion: 64 Resp: 131

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

1.65

400

300

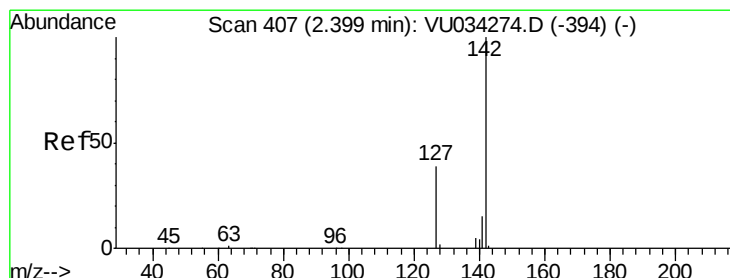
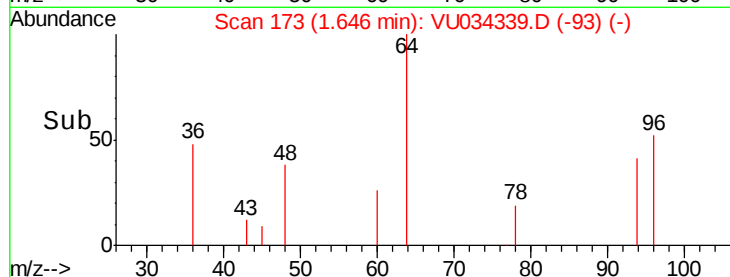
200

100

0

1.62 1.63 1.64 1.65 1.66

Time-->



#10

Methyl Iodide

Concen: 3.877 ug/l

RT: 2.40 min Scan# 408

Delta R.T. 0.00 min

Lab File: VU034339.D

Acq: 06 Sep 2019 18:30

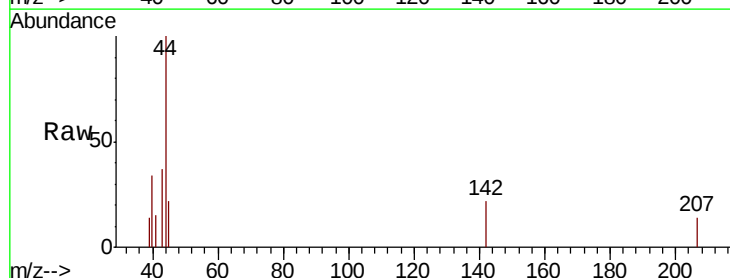
Tgt Ion: 142 Resp: 106

Ion Ratio Lower Upper

142 100

127 0.0 32.1 48.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

200

150

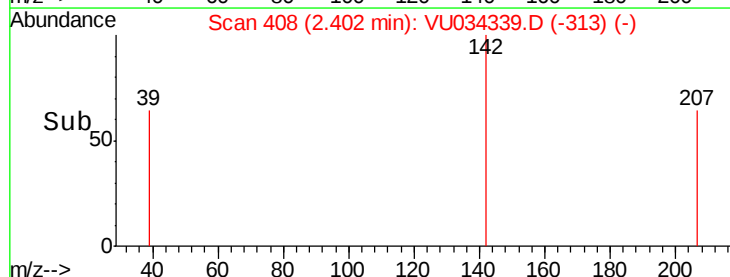
100

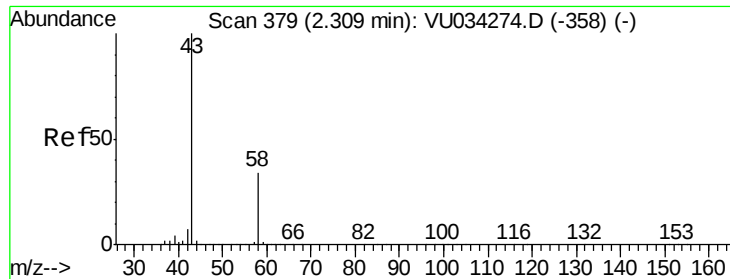
50

0

2.39 2.40 2.41 2.42

Time-->





#16

Acetone

Concen: 6.545 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034339.D

Acq: 06 Sep 2019 18:30

Instrument :

MSVOA_U

ClientSampleId :

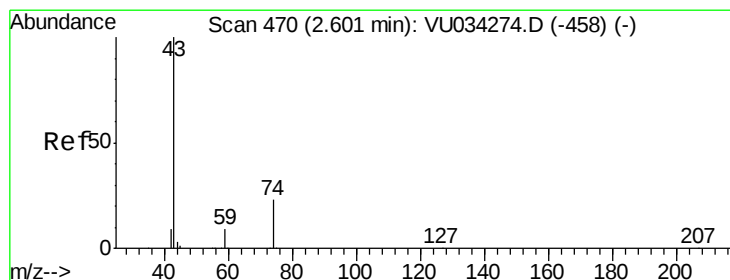
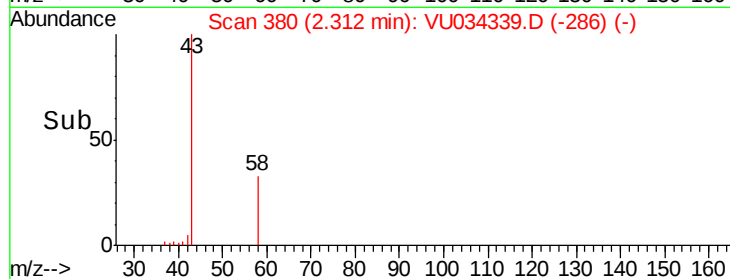
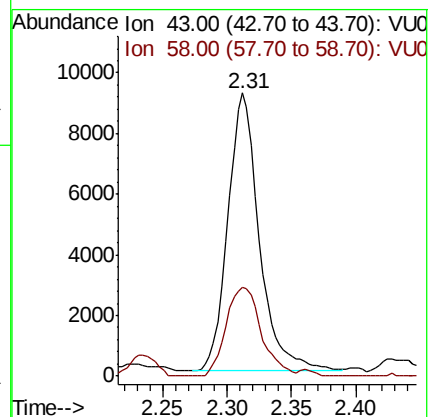
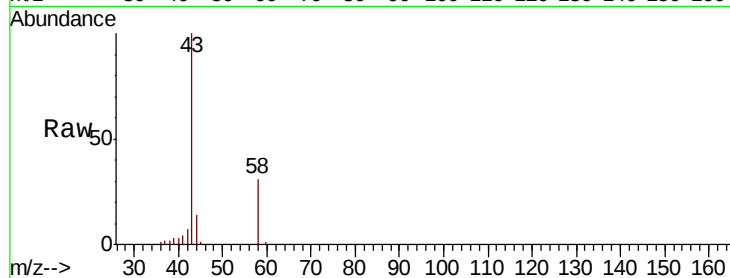
T12-B4-(3.5)

Tgt Ion: 43 Resp: 15406

Ion Ratio Lower Upper

43 100

58 31.9 27.6 41.4



#18

Methyl Acetate

Concen: 0.618 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034339.D

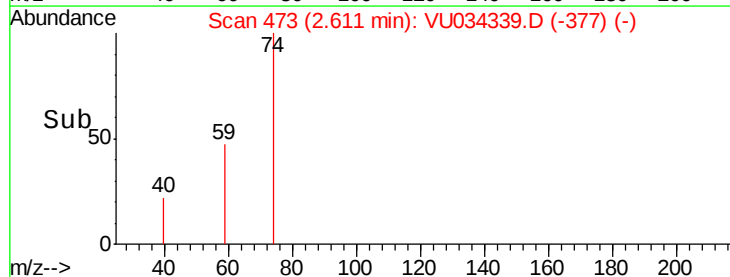
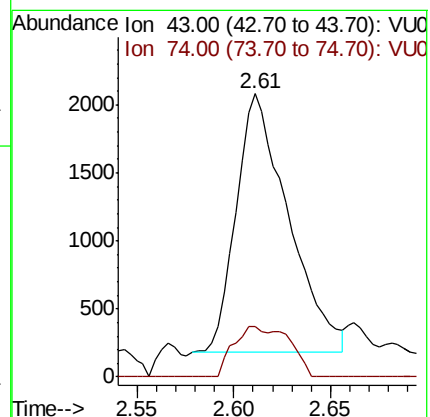
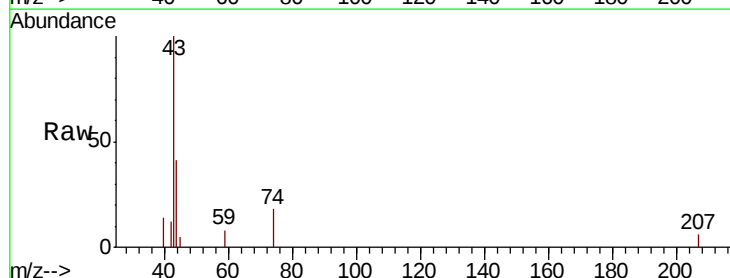
Acq: 06 Sep 2019 18:30

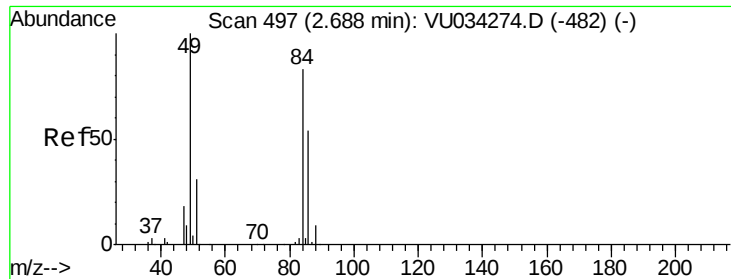
Tgt Ion: 43 Resp: 3542

Ion Ratio Lower Upper

43 100

74 12.6 18.9 28.3#

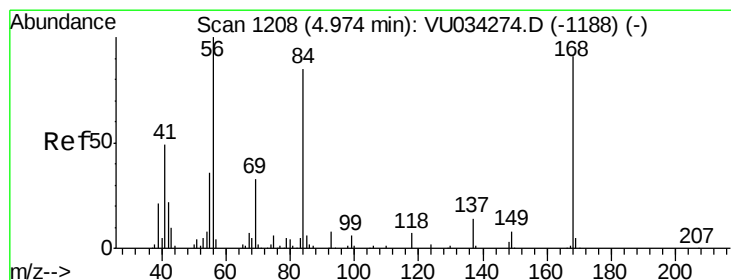
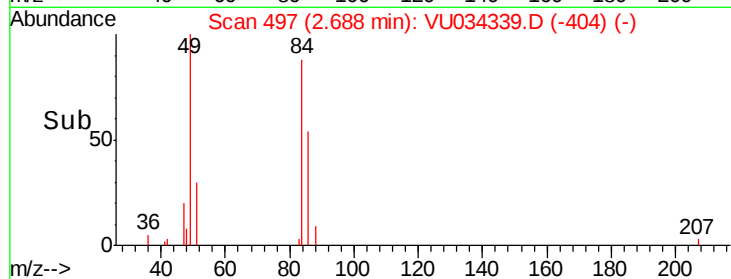
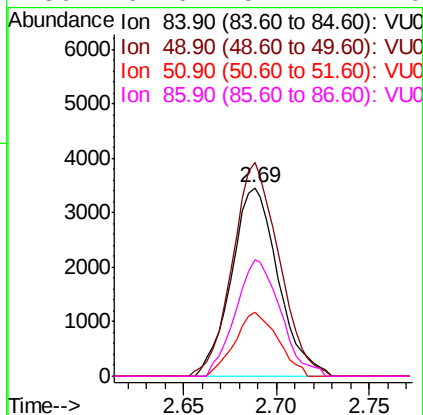
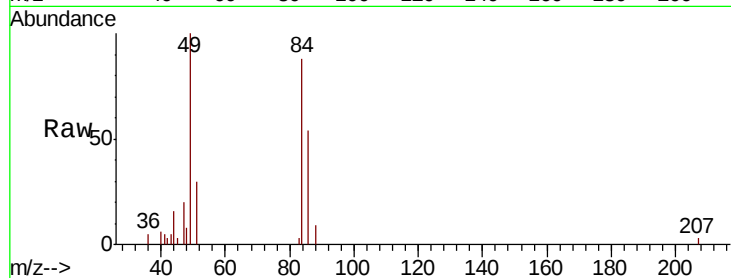




#20
Methylene Chloride
Concen: 1.183 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034339.D
Acq: 06 Sep 2019 18:30

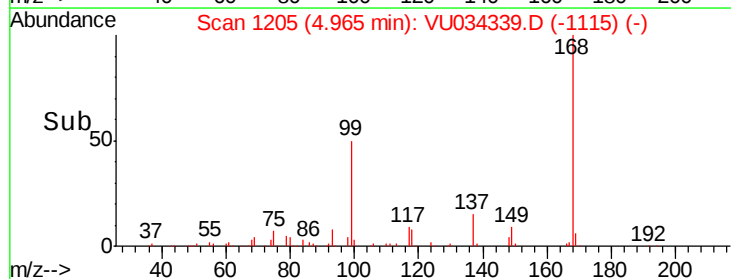
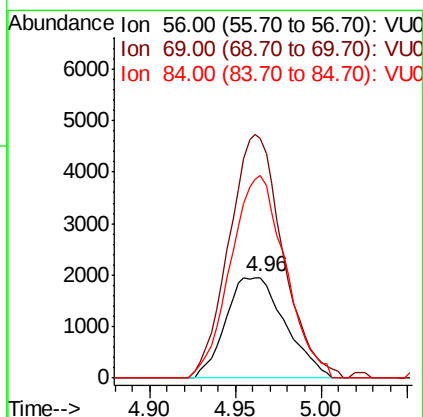
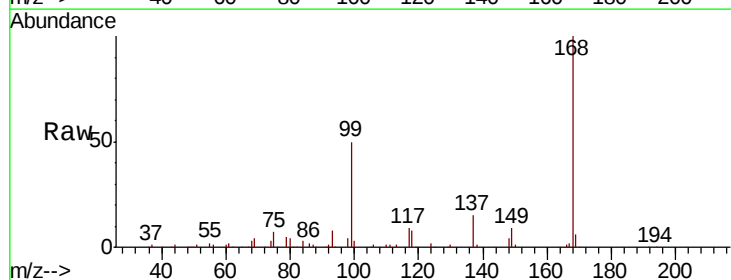
Instrument :
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ClientSampleId :
T12-B4-(3.5)

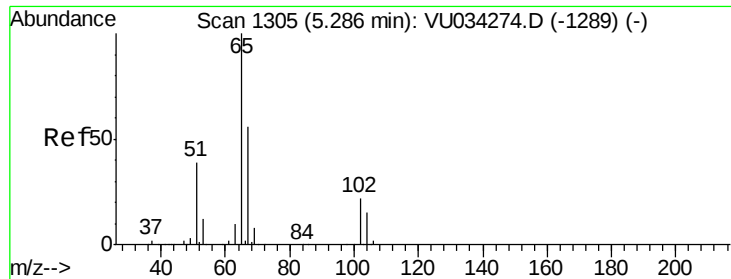
Tgt Ion: 84 Resp: 6065
Ion Ratio Lower Upper
84 100
49 113.4 96.0 144.0
51 33.9 30.0 45.0
86 61.6 51.4 77.0



#31
Cyclohexane
Concen: 0.878 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VU034339.D
Acq: 06 Sep 2019 18:30

Tgt Ion: 56 Resp: 4677
Ion Ratio Lower Upper
56 100
69 237.8 26.7 40.1#
84 201.1 68.2 102.4#

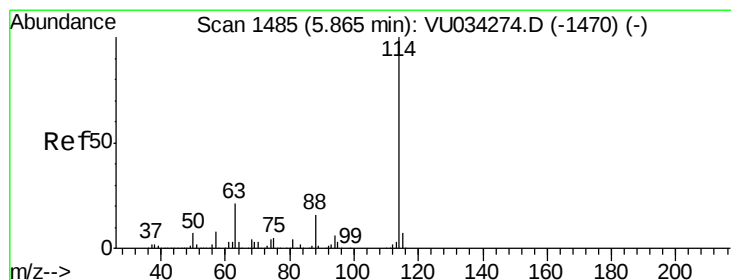
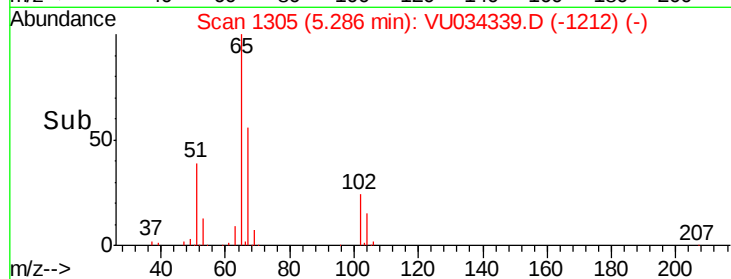
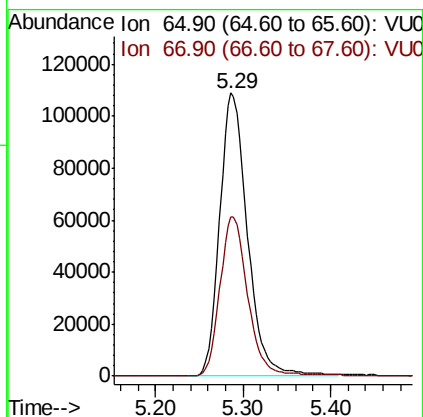
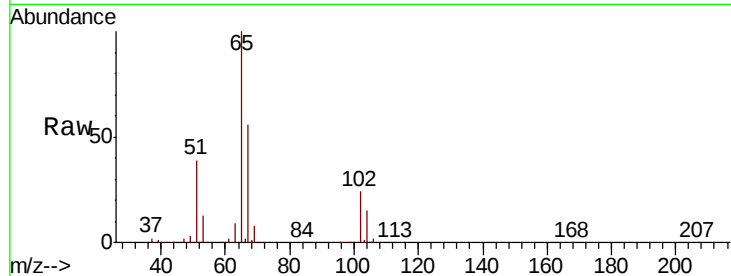




#33
 1,2-Dichloroethane-d4
 Concen: 52.831 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU034339.D
 Acq: 06 Sep 2019 18:30

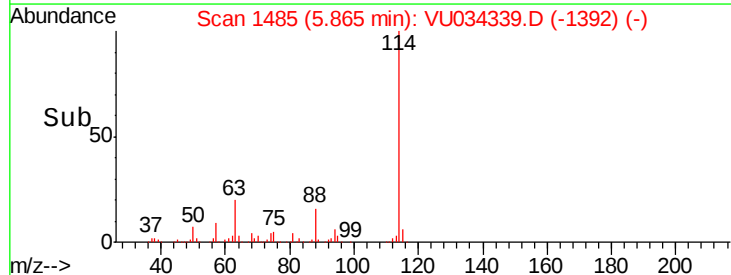
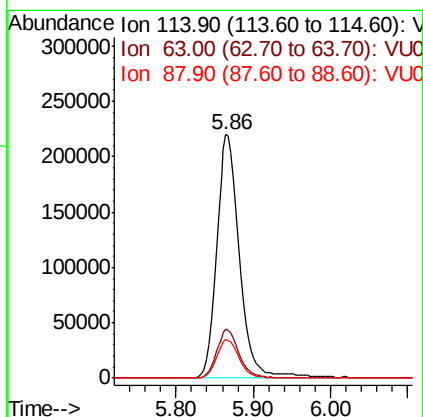
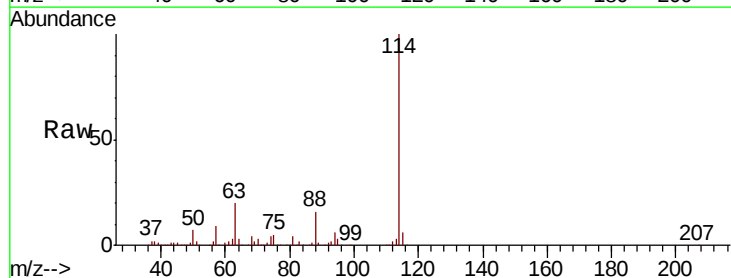
Instrument :
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 ClientSampleId :
 T12-B4-(3.5)

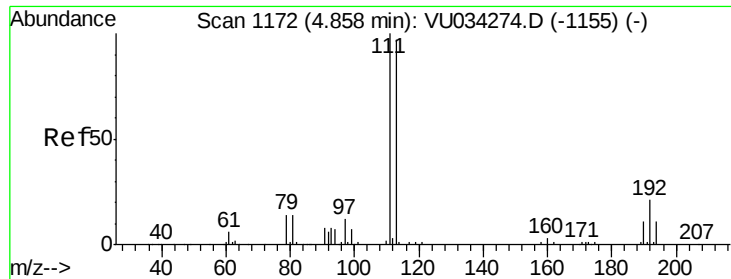
Tgt Ion: 65 Resp: 240289
 Ion Ratio Lower Upper
 65 100
 67 56.8 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034339.D
 Acq: 06 Sep 2019 18:30

Tgt Ion: 114 Resp: 455371
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 42.4
 88 15.7 0.0 32.4

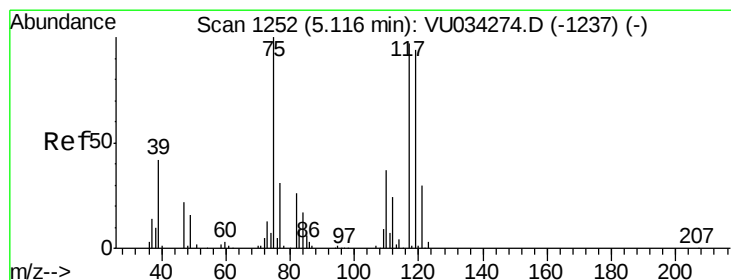
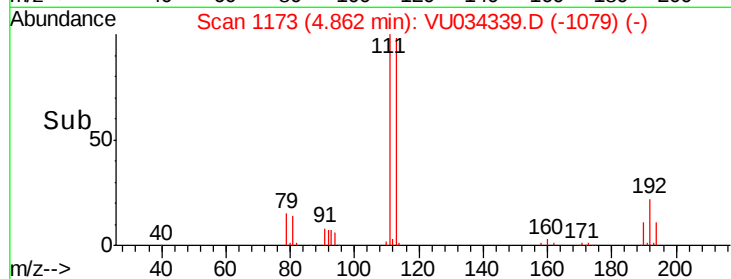
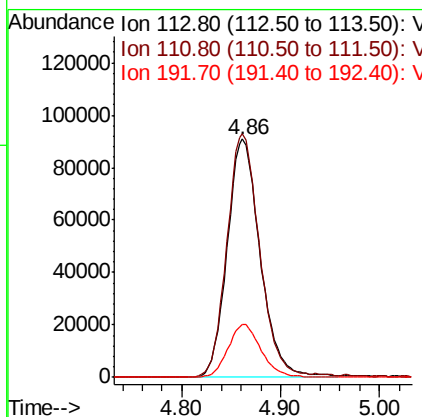
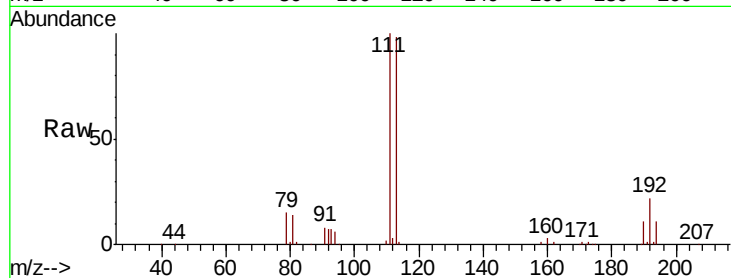




#35
 Dibromofluoromethane
 Concen: 50.097 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034339.D
 Acq: 06 Sep 2019 18:30

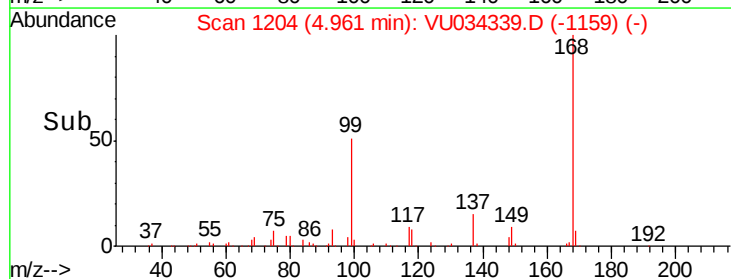
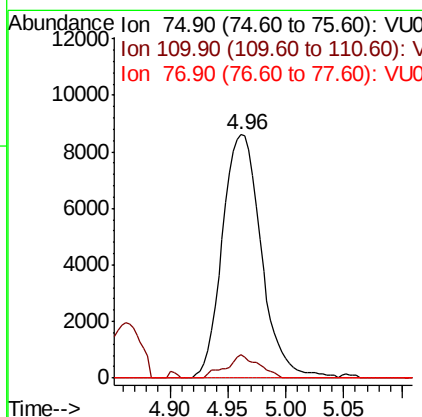
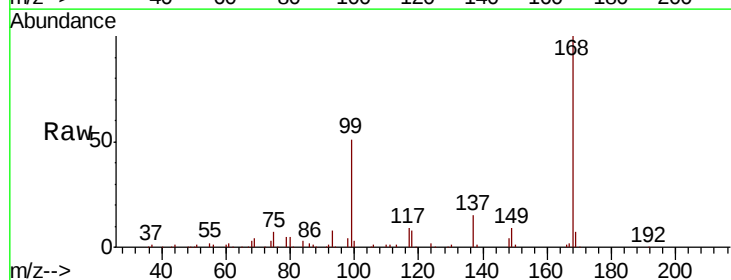
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 T12-B4-(3.5)

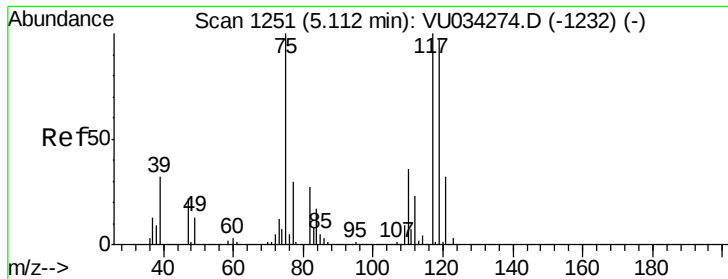
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.5	122.3
192	22.3	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 4.056 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034339.D
 Acq: 06 Sep 2019 18:30

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	18.3	54.9#
77	0.0	24.9	37.3#

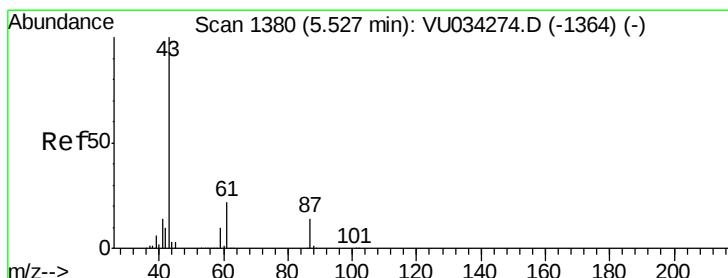
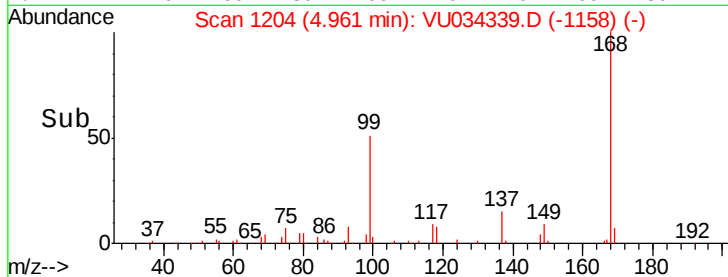
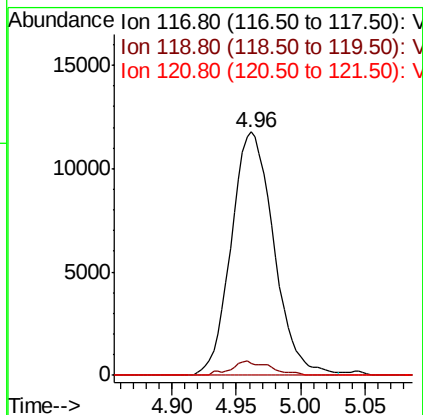
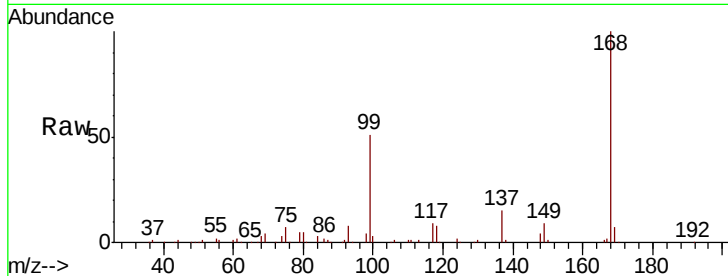




#38
 Carbon Tetrachloride
 Concen: 5.128 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034339.D
 Acq: 06 Sep 2019 18:30

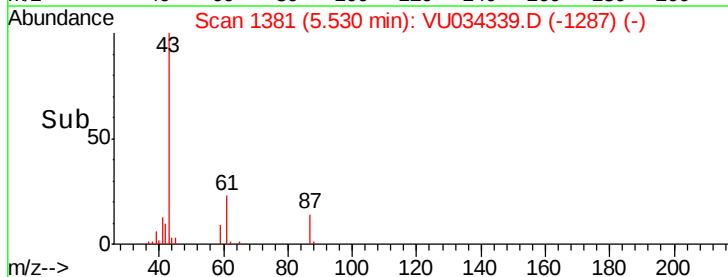
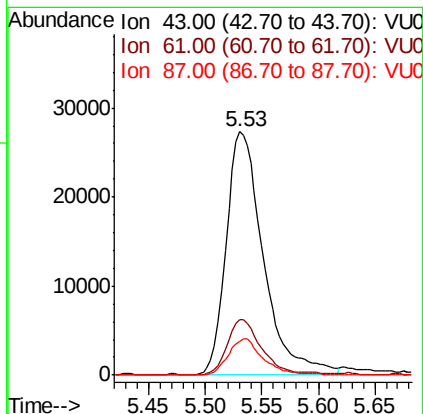
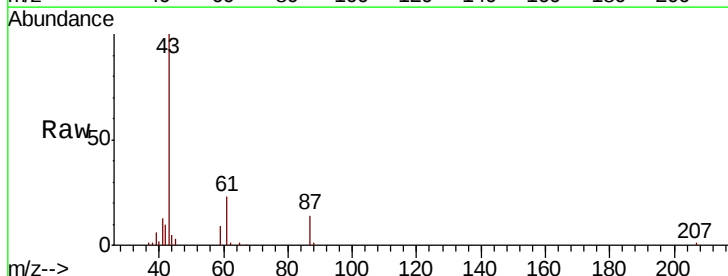
Instrument :
 MSVOA_U
 ClientSampleId :
 T12-B4-(3.5)

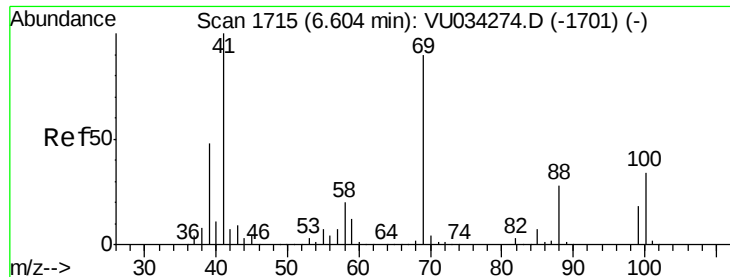
Tgt Ion: 117 Resp: 27039
 Ion Ratio Lower Upper
 117 100
 119 5.1 77.8 116.6#
 121 0.0 25.2 37.8#



#43
 Isopropyl Acetate
 Concen: 6.885 ug/l
 RT: 5.53 min Scan# 1381
 Delta R.T. 0.00 min
 Lab File: VU034339.D
 Acq: 06 Sep 2019 18:30

Tgt Ion: 43 Resp: 62717
 Ion Ratio Lower Upper
 43 100
 61 20.8 17.1 25.7
 87 13.7 11.1 16.7

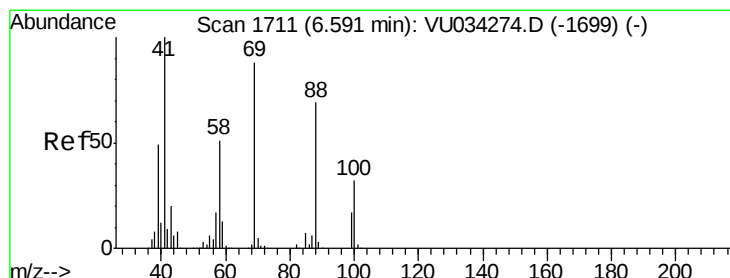
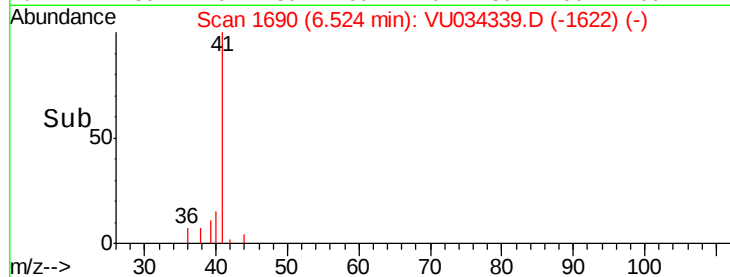
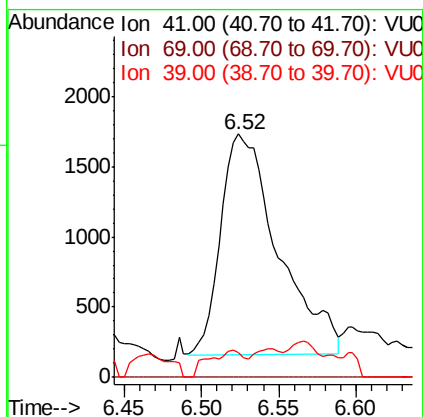
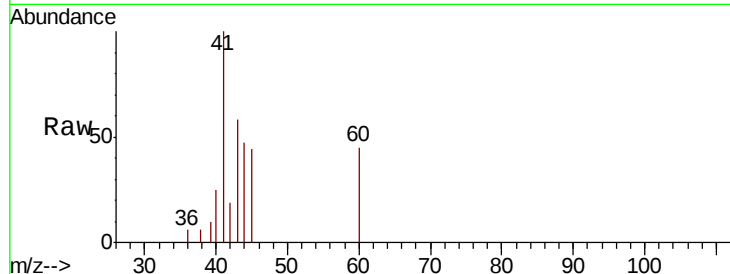




#48
Methyl methacrylate
Concen: 0.941 ug/l
RT: 6.52 min Scan# 1690
Delta R.T. -0.08 min
Lab File: VU034339.D
Acq: 06 Sep 2019 18:30

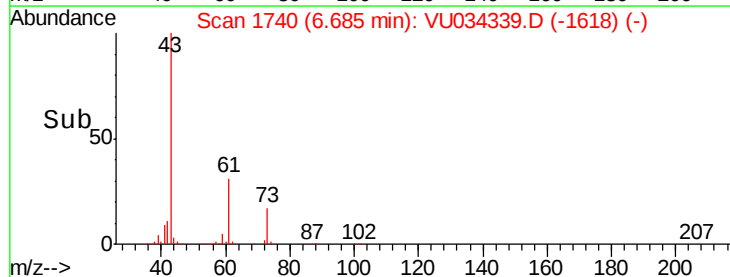
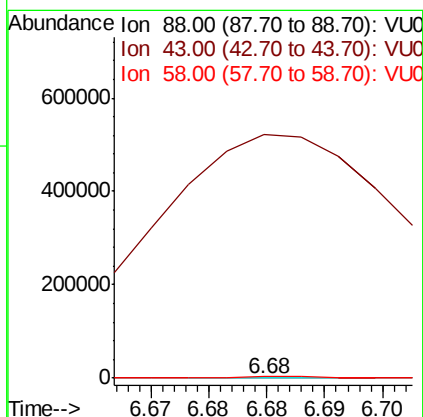
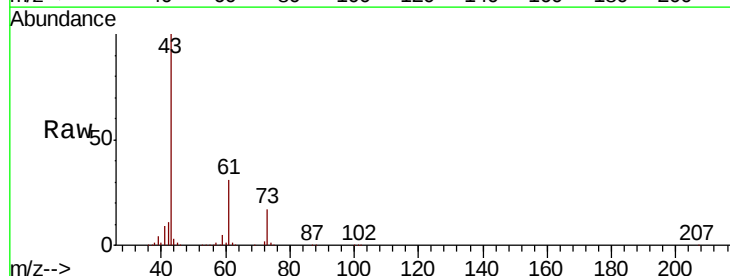
Instrument :
MSVOA_U
ClientSampleId :
T12-B4-(3.5)

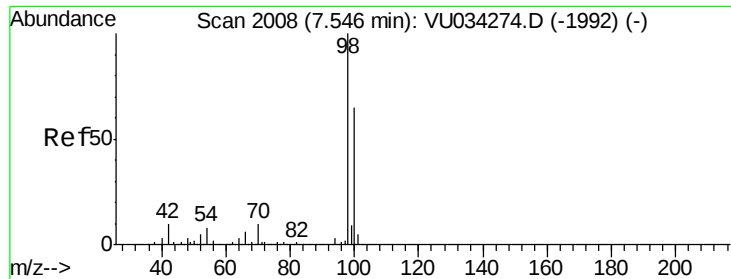
Tgt Ion: 41 Resp: 4072
Ion Ratio Lower Upper
41 100
69 0.0 72.8 109.2#
39 0.0 38.6 58.0#



#49
1,4-Dioxane
Concen: 0.222 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.09 min
Lab File: VU034339.D
Acq: 06 Sep 2019 18:30

Tgt Ion: 88 Resp: 21
Ion Ratio Lower Upper
88 100
43 4580504.8 23.8 35.6#
58 21319.0 58.4 87.6#

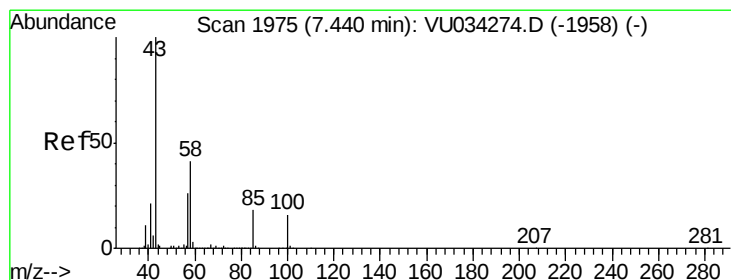
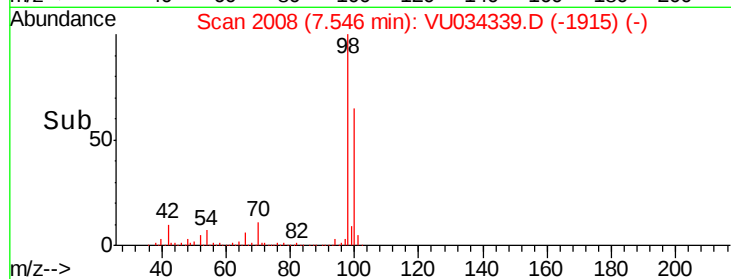
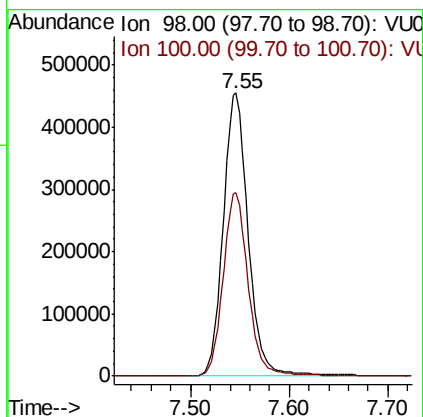
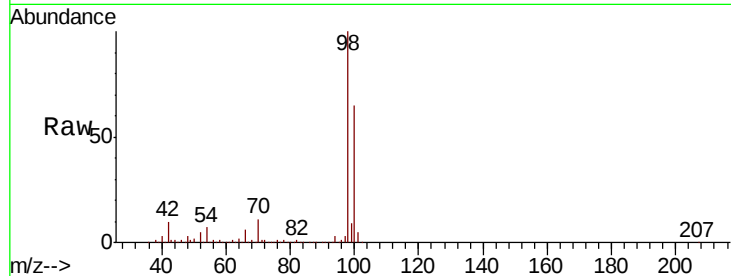




#50
Toluene-d8
Concen: 50.708 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034339.D
Acq: 06 Sep 2019 18:30

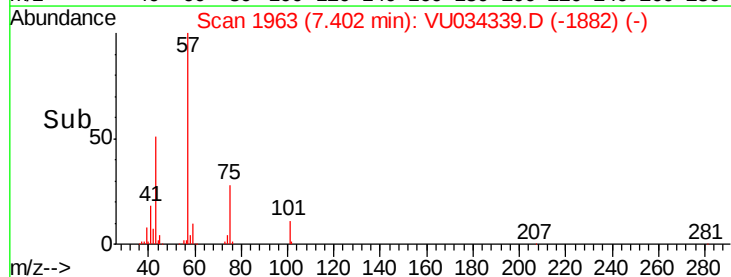
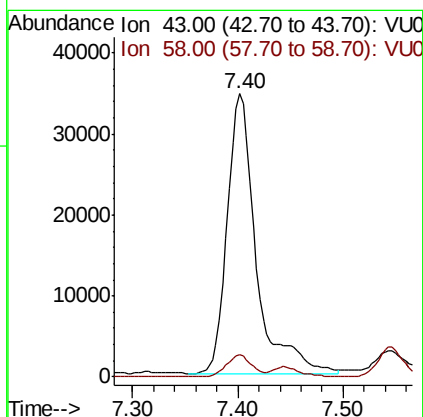
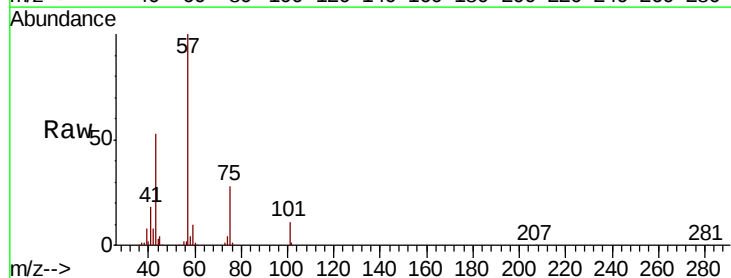
Instrument :
MSVOA_U
ClientSampleId :
T12-B4-(3.5)

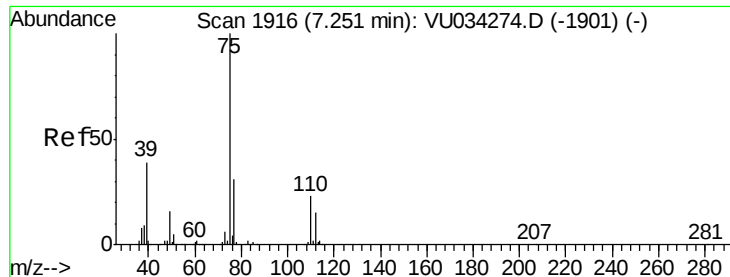
Tgt Ion: 98 Resp: 807240
Ion Ratio Lower Upper
98 100
100 65.2 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 10.481 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034339.D
Acq: 06 Sep 2019 18:30

Tgt Ion: 43 Resp: 66085
Ion Ratio Lower Upper
43 100
58 6.9 33.0 49.4#





#54

cis-1,3-Dichloropropene

Concen: 4.812 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034339.D

Acq: 06 Sep 2019 18:30

Instrument :

MSVOA_U

ClientSampleId :

T12-B4-(3.5)

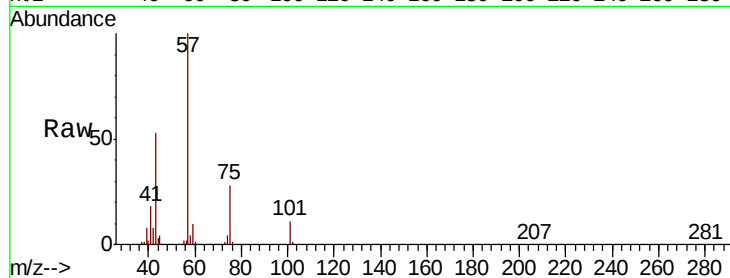
Tgt Ion: 75 Resp: 32956

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

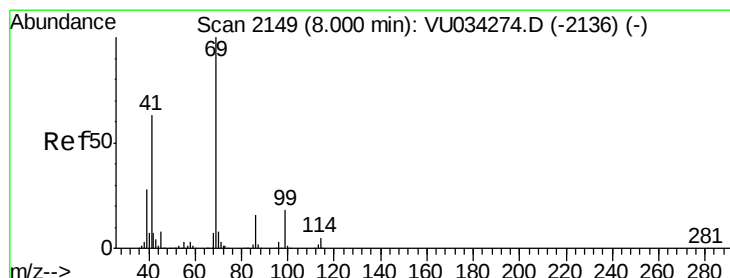
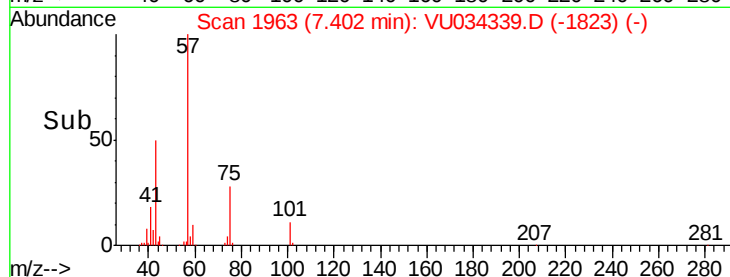
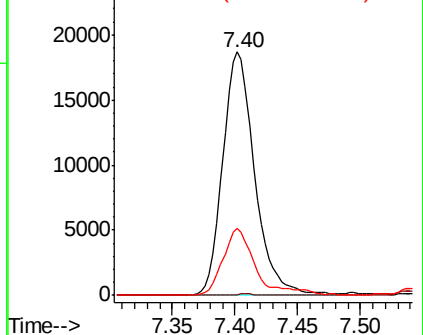
39 27.5 31.2 46.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0



#56

Ethyl methacrylate

Concen: 3.085 ug/l

RT: 7.94 min Scan# 2130

Delta R.T. -0.06 min

Lab File: VU034339.D

Acq: 06 Sep 2019 18:30

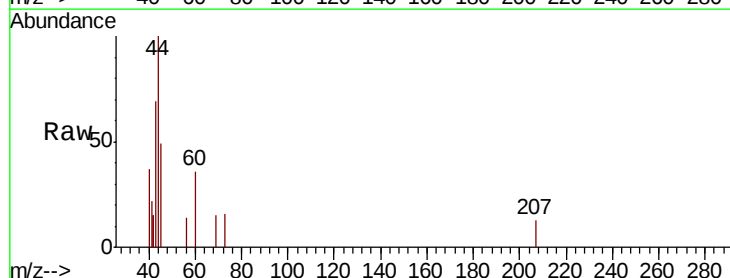
Tgt Ion: 69 Resp: 64

Ion Ratio Lower Upper

69 100

41 0.0 49.5 74.3#

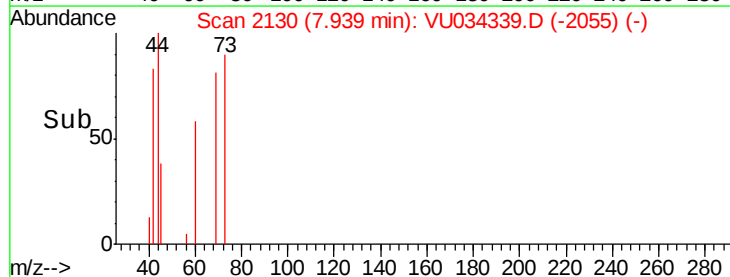
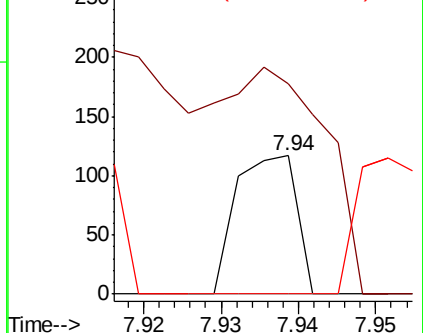
39 0.0 22.5 33.7#

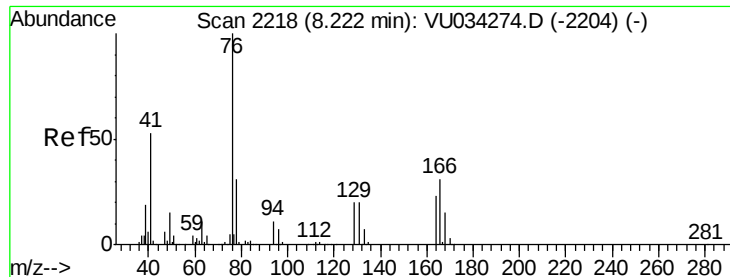


Abundance Ion 69.00 (68.70 to 69.70): VU0

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0





#57

1,3-Dichloropropane

Concen: 0.616 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. 0.17 min

Lab File: VU034339.D

Acq: 06 Sep 2019 18:30

Instrument :

MSVOA_U

ClientSampleId :

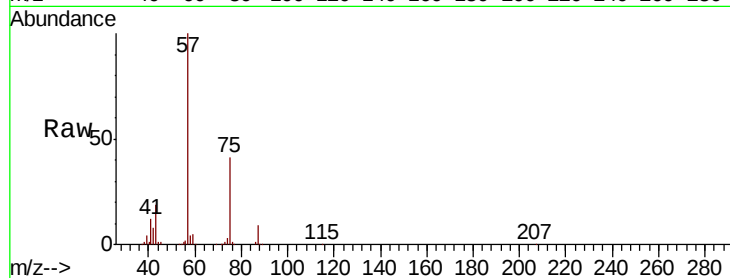
T12-B4-(3.5)

Tgt Ion: 76 Resp: 4555

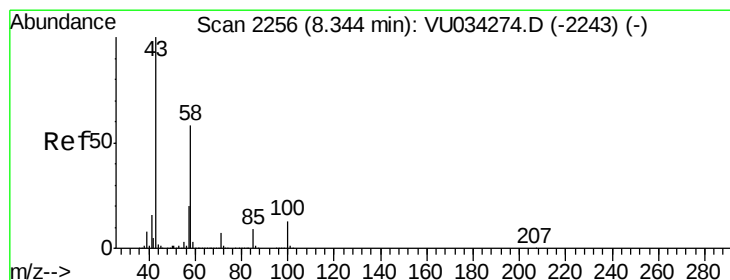
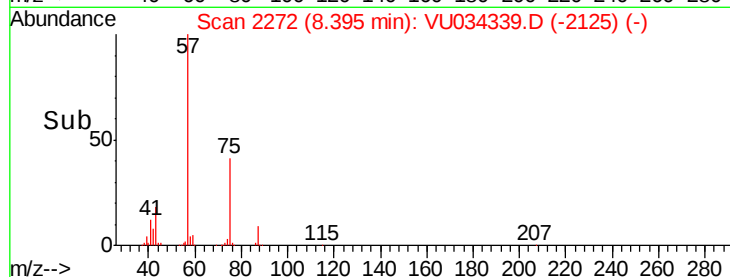
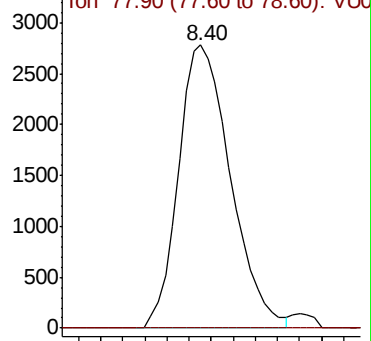
Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VU034339.D (-2125) (-)



#59

2-Hexanone

Concen: 16.742 ug/l

RT: 8.29 min Scan# 2240

Delta R.T. -0.05 min

Lab File: VU034339.D

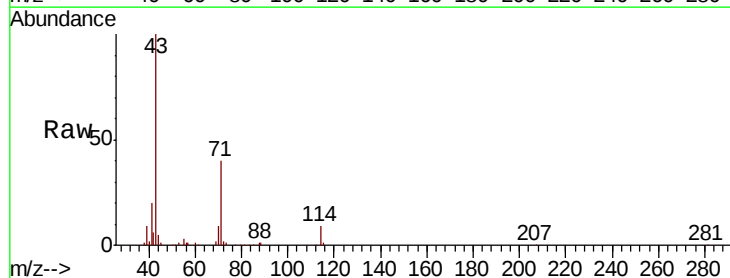
Acq: 06 Sep 2019 18:30

Tgt Ion: 43 Resp: 78860

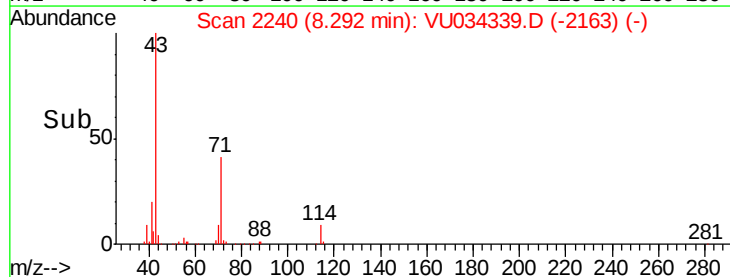
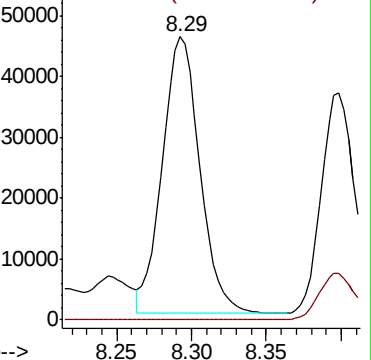
Ion Ratio Lower Upper

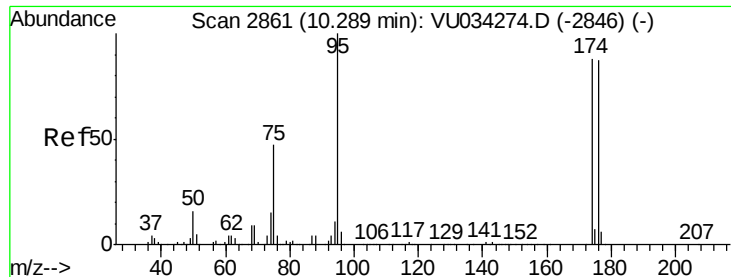
43 100

58 0.0 28.8 86.5#



Abundance Ion 43.00 (42.70 to 43.70): VU034339.D (-2163) (-)

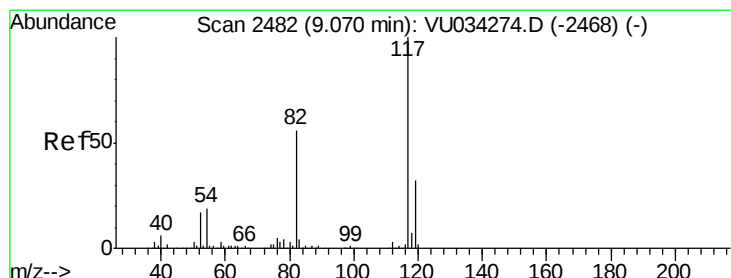
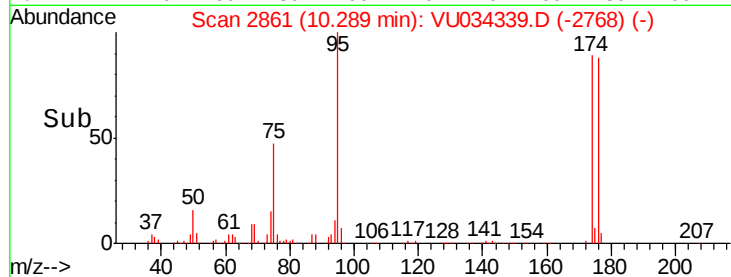
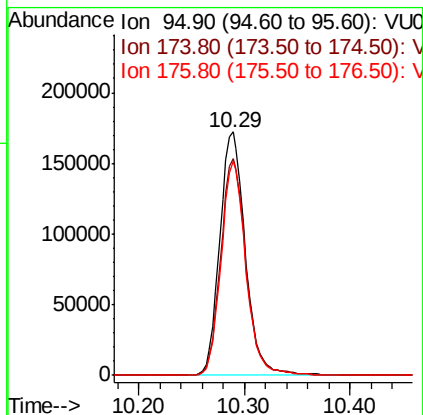
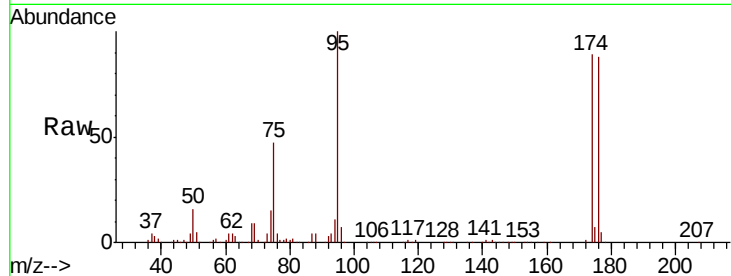




#62
4-Bromofluorobenzene
Concen: 46.953 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034339.D
Acq: 06 Sep 2019 18:30

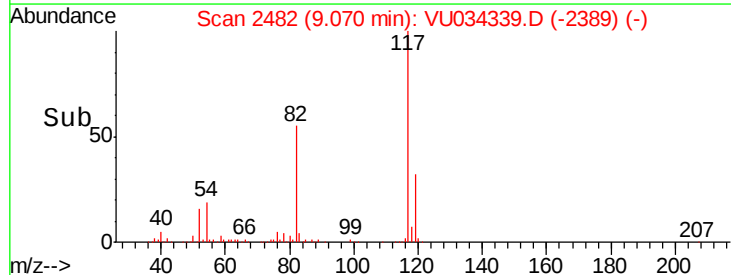
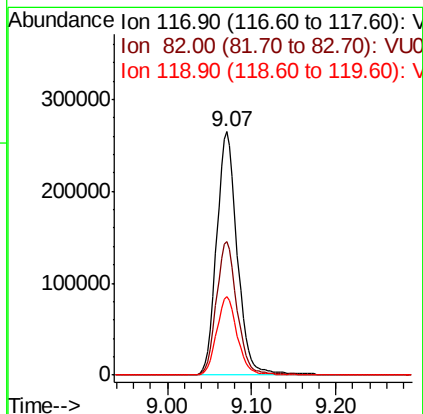
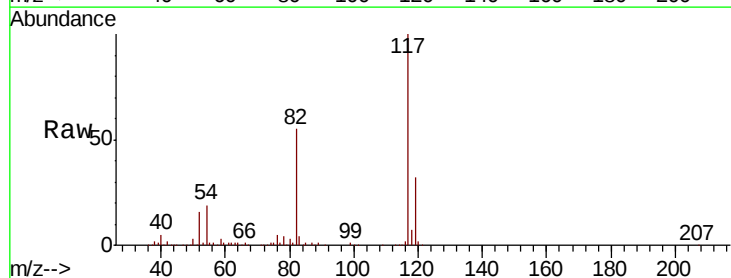
Instrument :
MSVOA_U
ClientSampleId :
T12-B4-(3.5)

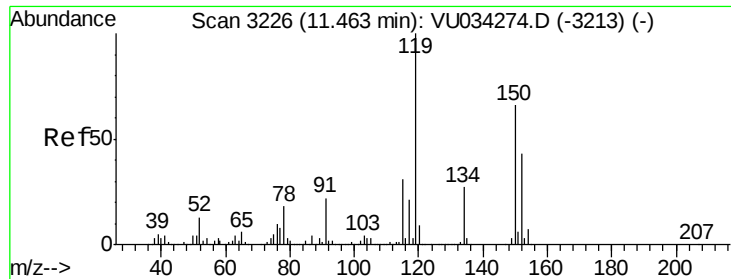
Tgt Ion: 95 Resp: 288590
Ion Ratio Lower Upper
95 100
174 88.7 0.0 175.2
176 85.3 0.0 168.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034339.D
Acq: 06 Sep 2019 18:30

Tgt Ion: 117 Resp: 452394
Ion Ratio Lower Upper
117 100
82 55.0 44.6 67.0
119 32.3 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VU034339.D

Acq: 06 Sep 2019 18:30

Instrument :

MSVOA_U

ClientSampleId :

T12-B4-(3.5)

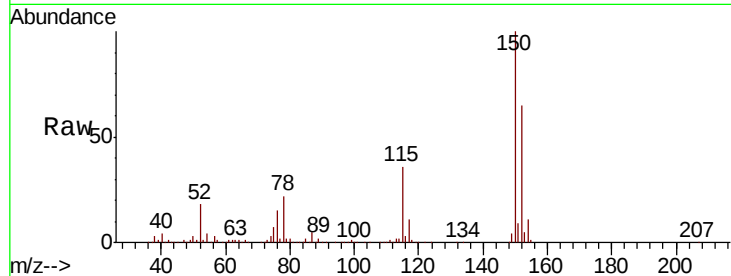
Tgt Ion:152 Resp: 268310

Ion Ratio Lower Upper

152 100

115 56.0 39.1 117.3

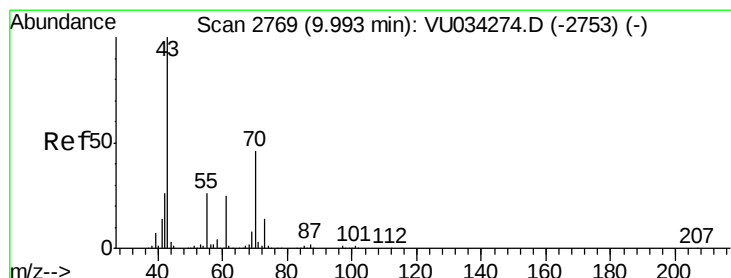
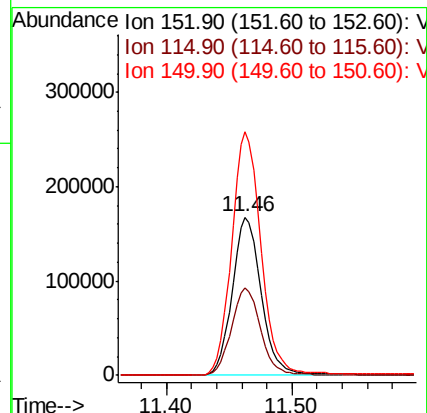
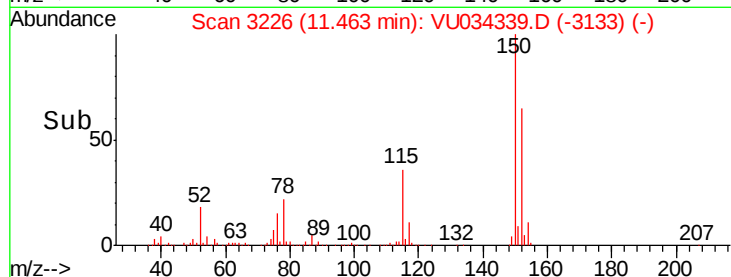
150 156.6 0.0 345.4



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: 0.340 ug/l

RT: 9.93 min Scan# 2748

Delta R.T. -0.07 min

Lab File: VU034339.D

Acq: 06 Sep 2019 18:30

Tgt Ion: 43 Resp: 2387

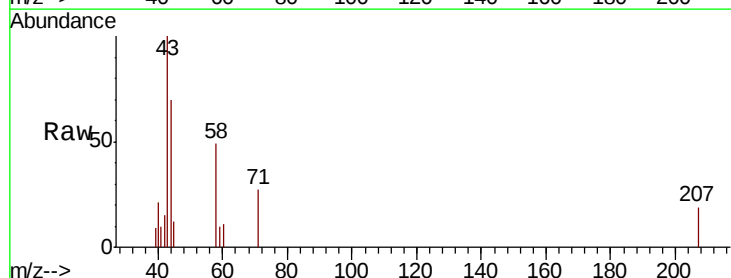
Ion Ratio Lower Upper

43 100

70 0.0 36.4 54.6#

55 0.0 21.2 31.8#

61 0.0 20.4 30.6#

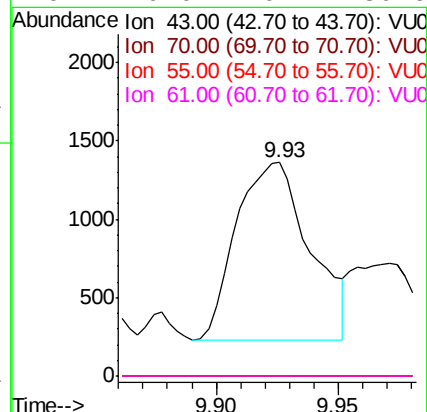
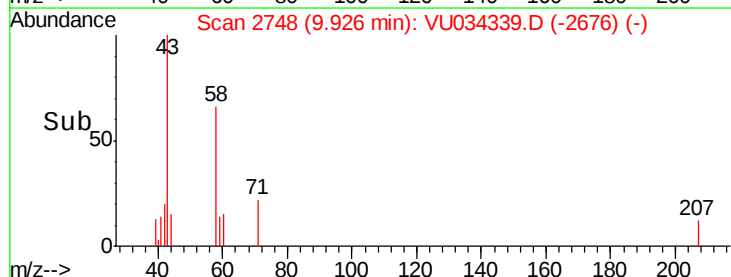


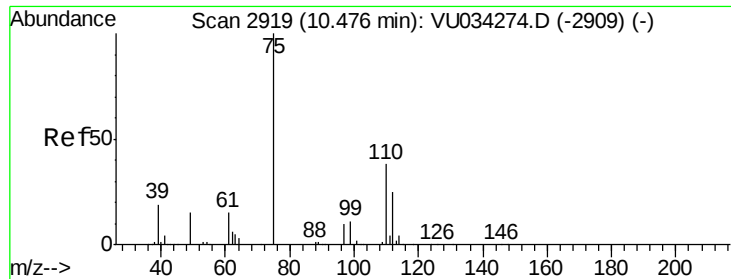
Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 22.920 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034339.D

Acq: 06 Sep 2019 18:30

Instrument :

MSVOA_U

ClientSampleId :

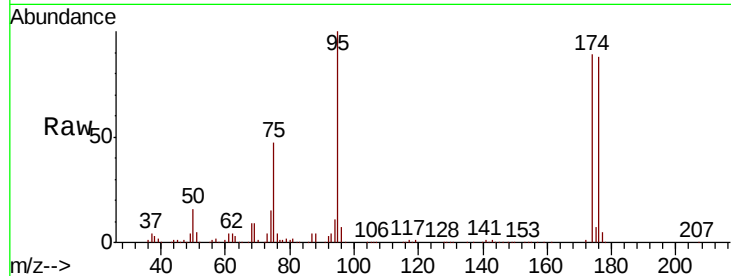
T12-B4-(3.5)

Tgt Ion: 75 Resp: 134238

Ion Ratio Lower Upper

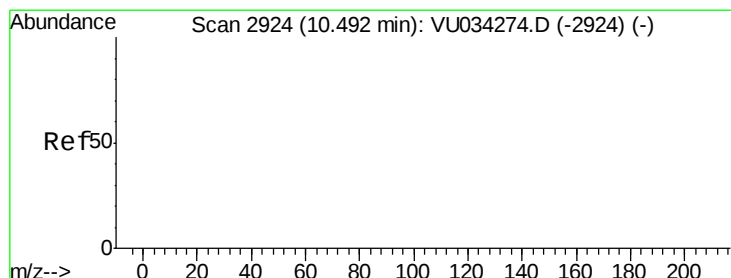
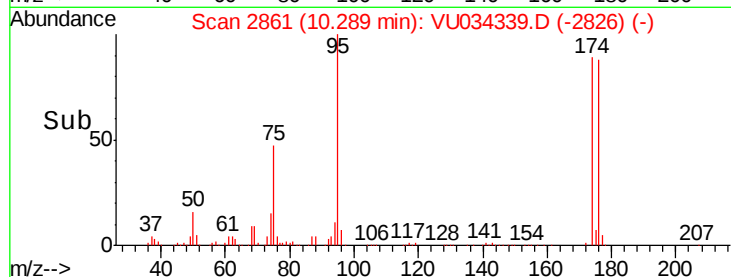
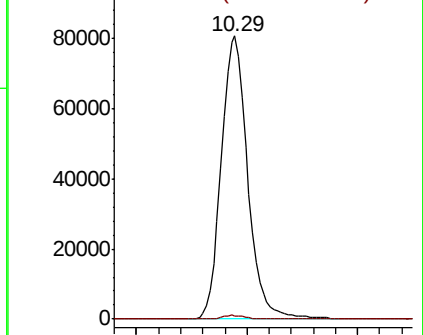
75 100

77 1.2 20.8 62.2#



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: 77.079 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034339.D

Acq: 06 Sep 2019 18:30

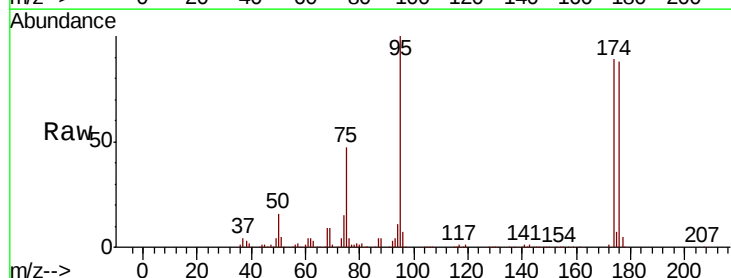
Tgt Ion: 75 Resp: 134238

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

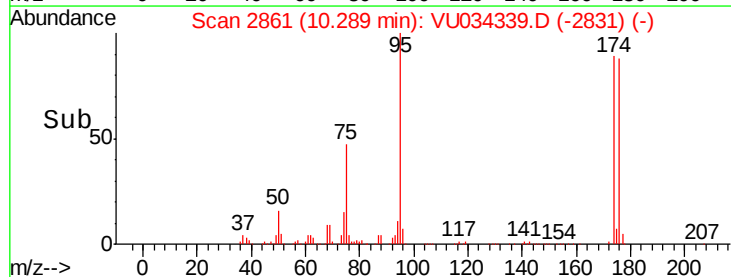
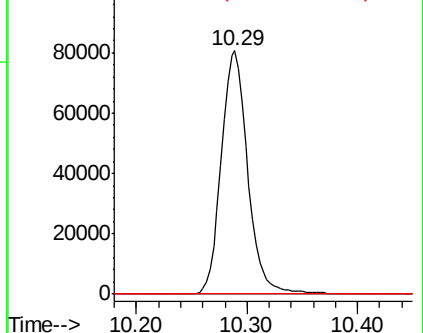
89 0.0 0.0 0.0

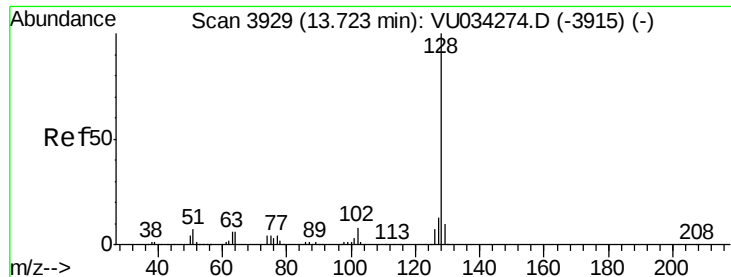


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

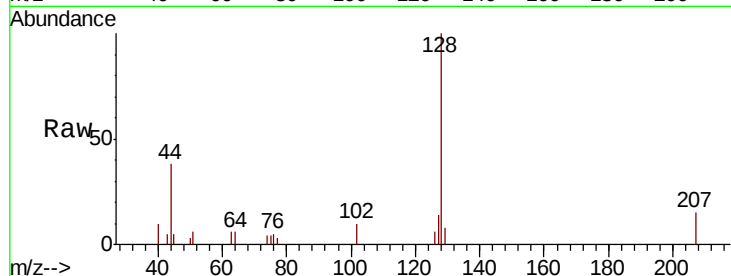




#95
Naphthalene
Concen: 4.634 ug/l
RT: 13.75 min Scan# 3938
Delta R.T. 0.03 min
Lab File: VU034339.D
Acq: 06 Sep 2019 18:30

Instrument :
MSVOA_U
ClientSampleId :
T12-B4-(3.5)

Tgt Ion	Ratio	Lower	Upper
128	100		
127	2.0	10.6	15.8#
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

