

Data File : VU034494.D
Acq On : 11 Sep 2019 22:57
Operator : JC/SP
Sample : K4624-23
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T-11-A3-(0)

Quant Time: Sep 12 04:46:17 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	248064	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	372561	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	399452	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	219233	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	215994	57.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.10%	
35) Dibromofluoromethane	4.86	113	187990	54.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.46%	
50) Toluene-d8	7.54	98	695313	53.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.78%	
62) 4-Bromofluorobenzene	10.29	95	235699	46.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.74%	

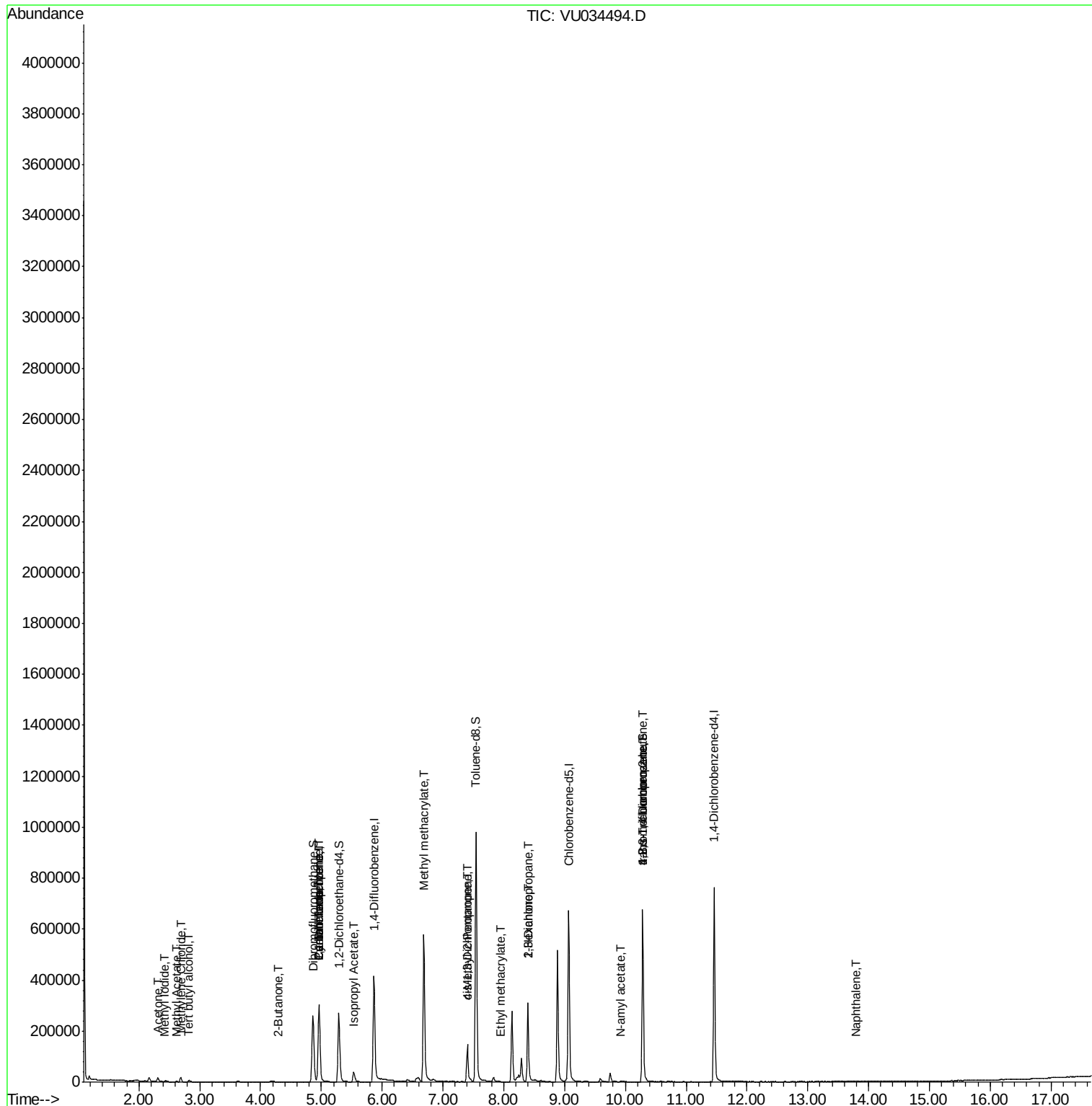
Target Compounds			Qvalue			
5) Bromomethane	1.63	94	453	Below Cal	#	78
6) Chloroethane	1.71	64	103	Below Cal	#	43
10) Methyl Iodide	2.41	142	181	3.910	ug/l #	43
11) Tert butyl alcohol	2.82	59	3935	4.963	ug/l #	73
16) Acetone	2.31	43	15698	8.082	ug/l	96
18) Methyl Acetate	2.61	43	3362	0.711	ug/l #	85
20) Methylene Chloride	2.69	84	8302	2.228	ug/l	93
25) 2-Butanone	4.29	43	1285	0.496	ug/l	96
31) Cyclohexane	4.96	56	4220	0.960	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	17021	4.213	ug/l #	48
38) Carbon Tetrachloride	4.96	117	21226	4.920	ug/l #	19
43) Isopropyl Acetate	5.53	43	49797	6.682	ug/l	98
48) Methyl methacrylate	6.68	41	52246	14.761	ug/l #	36
51) 4-Methyl-2-Pentanone	7.40	43	56440	10.941	ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	27349	4.881	ug/l #	66
56) Ethyl methacrylate	7.94	69	125	3.097	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	3080	0.509	ug/l #	43
59) 2-Hexanone	8.40	43	43241	11.221	ug/l #	54
74) N-amyl acetate	9.92	43	1599	0.278	ug/l #	42
76) 1,2,3-Trichloropropane	10.29	75	109214	22.822	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	109214	76.749	ug/l #	100
95) Naphthalene	13.79	128	44	3.969	ug/l #	69

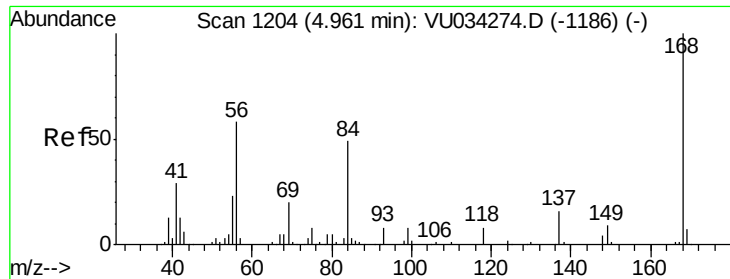
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034494.D

Acq: 11 Sep 2019 22:57

Instrument :

MSVOA_U

ClientSampleId :

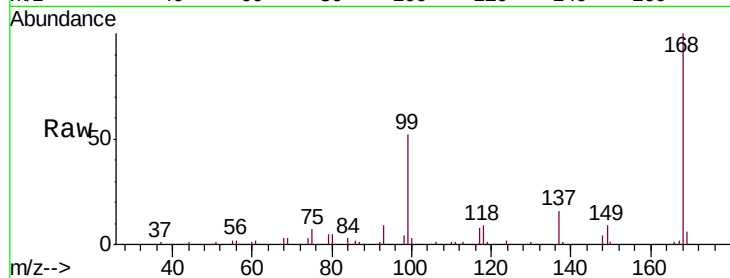
T-11-A3-(0)

Tgt Ion:168 Resp: 248064

Ion Ratio Lower Upper

168 100

99 51.6 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034494.D (-1111) (-)

Ion 98.90 (98.60 to 99.60): VU034494.D (-1111) (-)

4.96

120000

100000

80000

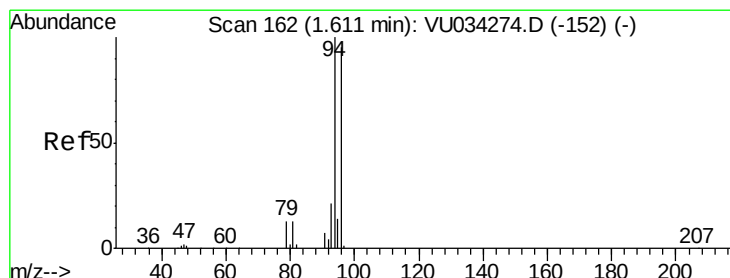
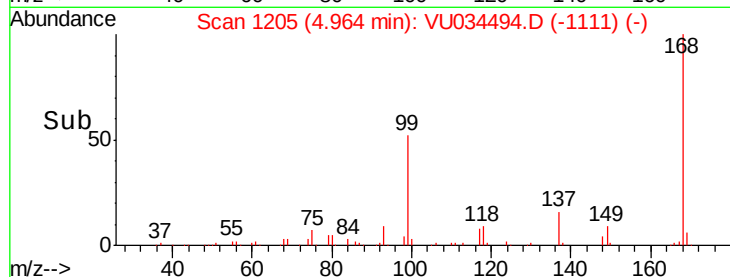
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034494.D

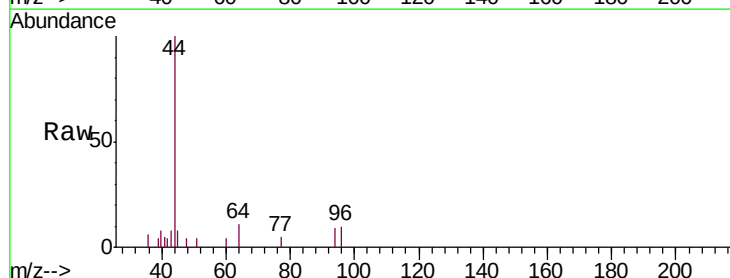
Acq: 11 Sep 2019 22:57

Tgt Ion: 94 Resp: 453

Ion Ratio Lower Upper

94 100

96 116.2 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034494.D (-68) (-)

Ion 95.90 (95.60 to 96.60): VU034494.D (-68) (-)

1.63

400

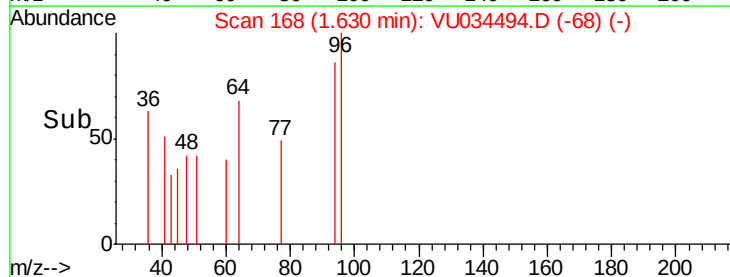
300

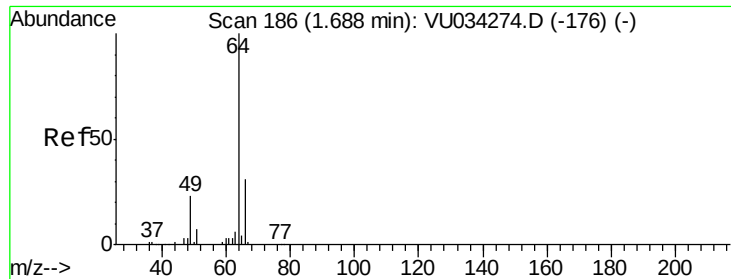
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 193

Delta R.T. 0.02 min

Lab File: VU034494.D

Acq: 11 Sep 2019 22:57

Instrument :

MSVOA_U

ClientSampleId :

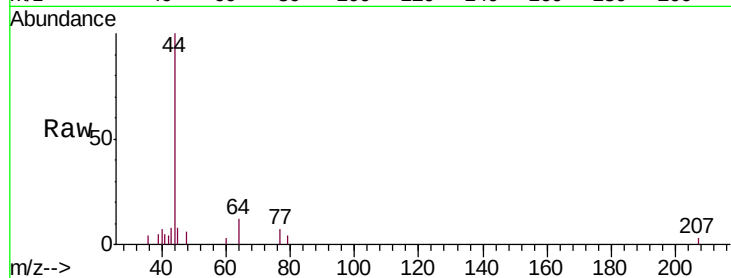
T-11-A3-(0)

Tgt Ion: 64 Resp: 103

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU034274.D (-176) (-)

Ion 65.90 (65.60 to 66.60): VU034274.D (-176) (-)

600

500

400

300

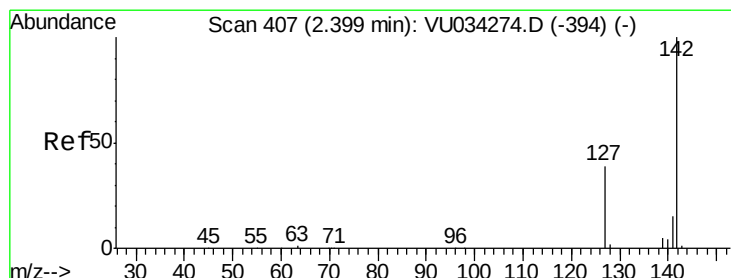
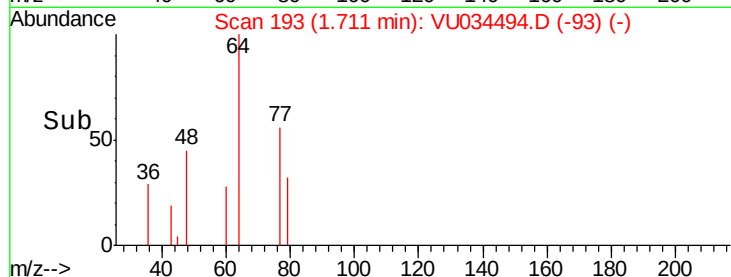
200

100

0

1.70 1.71 1.72 1.73

Time-->



#10

Methyl Iodide

Concen: 3.910 ug/l

RT: 2.41 min Scan# 410

Delta R.T. 0.01 min

Lab File: VU034494.D

Acq: 11 Sep 2019 22:57

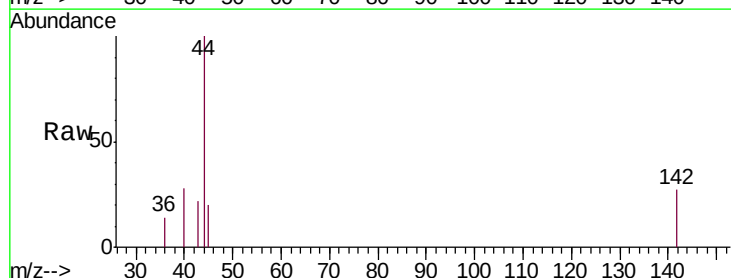
Tgt Ion: 142 Resp: 181

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): VU034274.D (-394) (-)

Ion 126.80 (126.50 to 127.50): VU034274.D (-394) (-)

Ion 140.80 (140.50 to 141.50): VU034274.D (-394) (-)

300

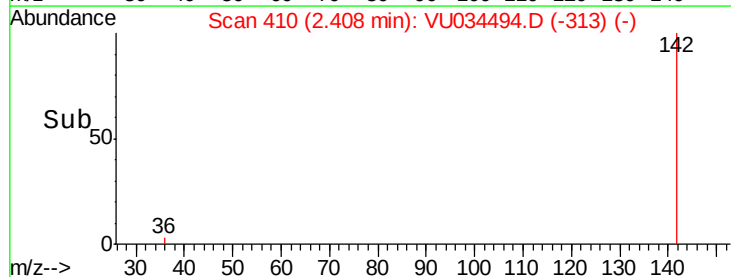
200

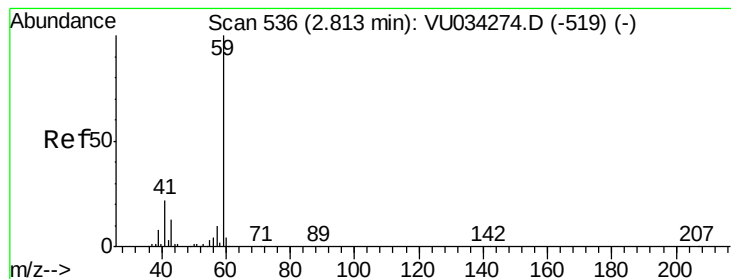
100

0

2.39 2.40 2.41 2.42 2.43

Time-->



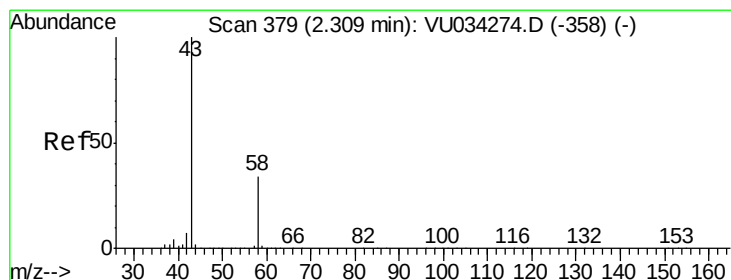
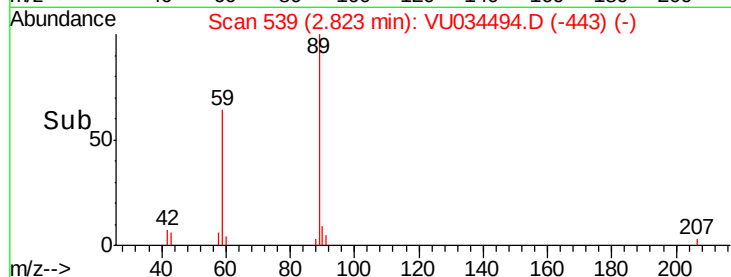
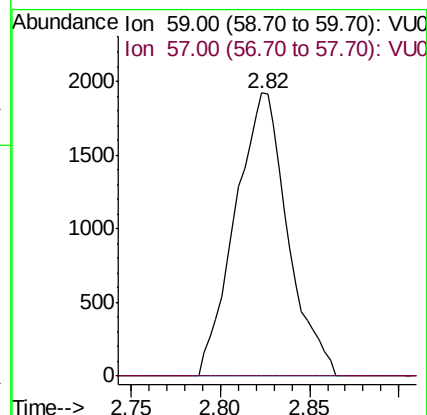
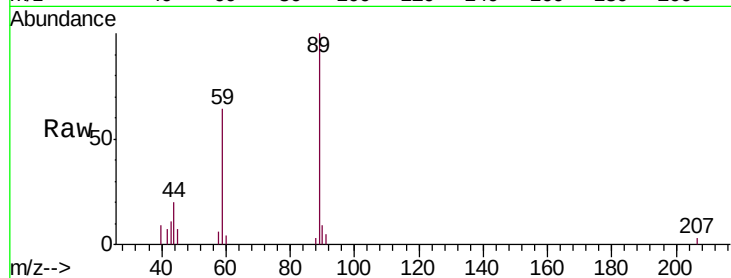


#11

Tert butyl alcohol
 Concen: 4.963 ug/l
 RT: 2.82 min Scan# 539
 Delta R.T. 0.01 min
 Lab File: VU034494.D
 Acq: 11 Sep 2019 22:57

Instrument :
 MSVOA_U
 ClientSampleId :
 T-11-A3-(0)

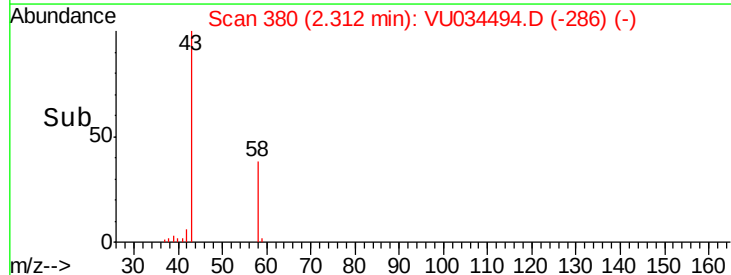
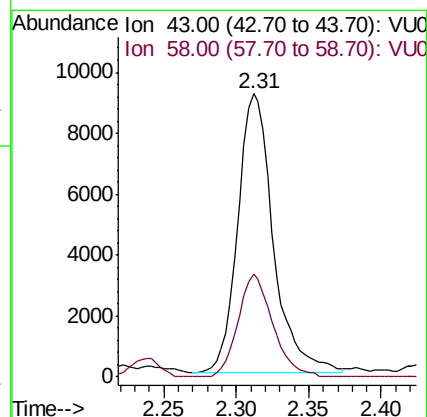
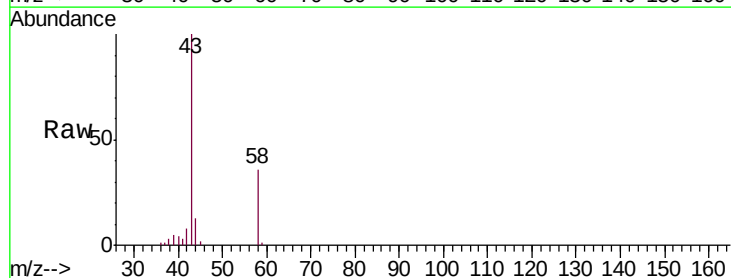
Tgt Ion: 59 Resp: 3935
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

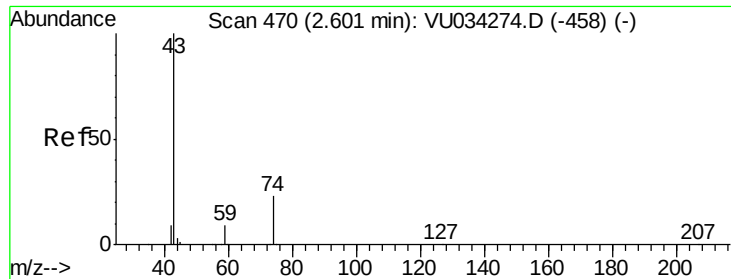


#16

Acetone
 Concen: 8.082 ug/l
 RT: 2.31 min Scan# 380
 Delta R.T. 0.00 min
 Lab File: VU034494.D
 Acq: 11 Sep 2019 22:57

Tgt Ion: 43 Resp: 15698
 Ion Ratio Lower Upper
 43 100
 58 36.8 27.6 41.4

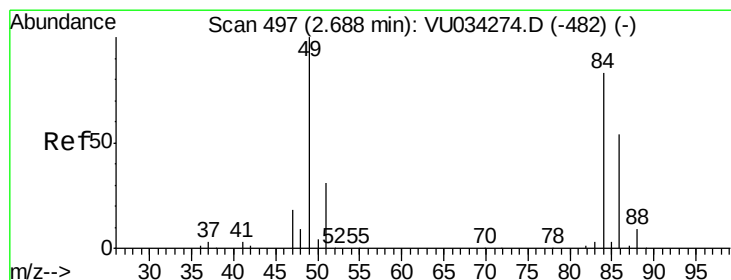
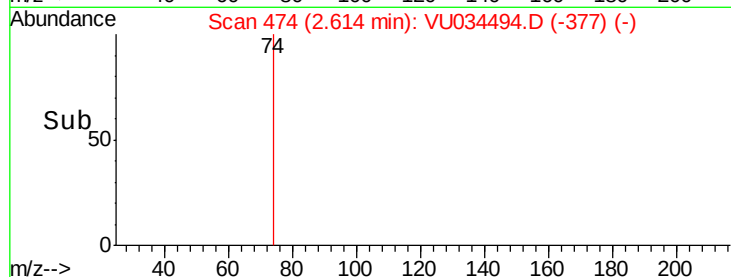
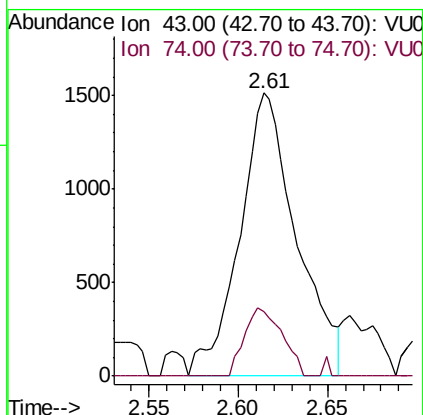
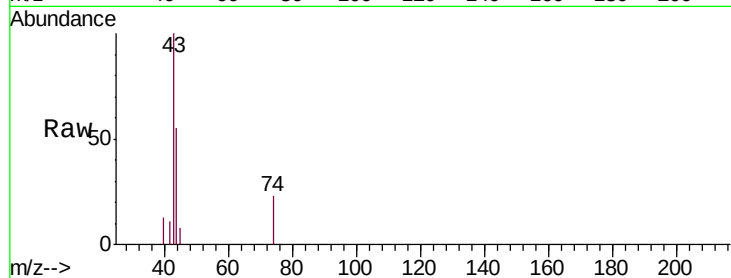




#18
Methyl Acetate
Concen: 0.711 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.01 min
Lab File: VU034494.D
Acq: 11 Sep 2019 22:57

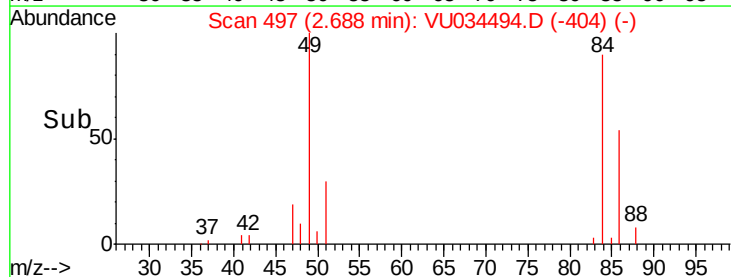
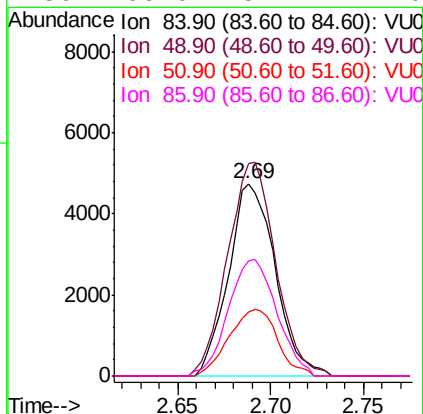
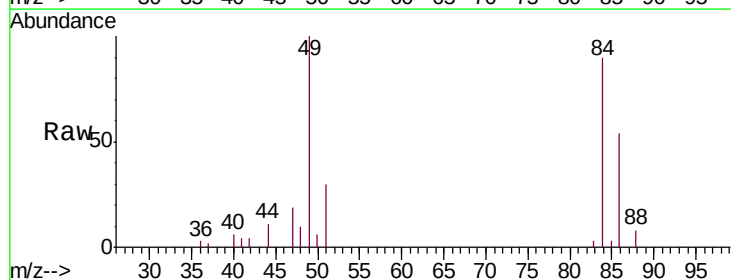
Instrument :
MSVOA_U
ClientSampleId :
T-11-A3-(0)

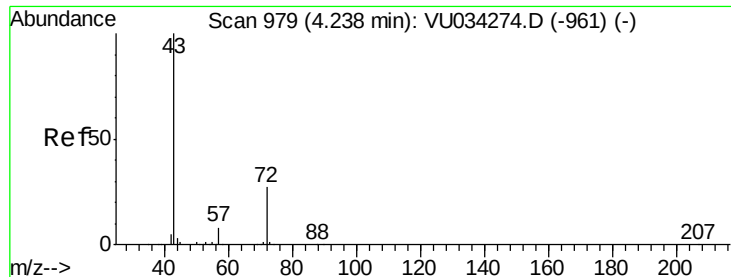
Tgt Ion: 43 Resp: 3362
Ion Ratio Lower Upper
43 100
74 16.0 18.9 28.3#



#20
Methylene Chloride
Concen: 2.228 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034494.D
Acq: 11 Sep 2019 22:57

Tgt Ion: 84 Resp: 8302
Ion Ratio Lower Upper
84 100
49 110.7 96.0 144.0
51 33.3 30.0 45.0
86 60.0 51.4 77.0





#25

2-Butanone

Concen: 0.496 ug/l

RT: 4.29 min Scan# 994

Delta R.T. 0.05 min

Lab File: VU034494.D

Acq: 11 Sep 2019 22:57

Instrument :

MSVOA_U

ClientSampleId :

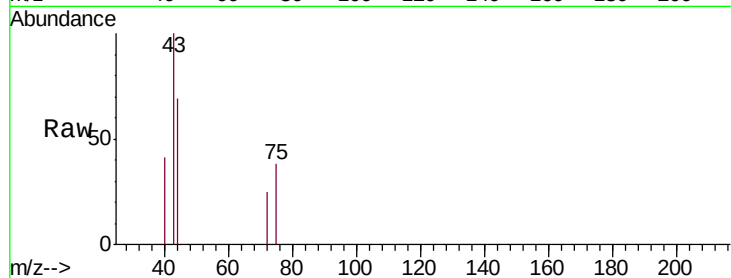
T-11-A3-(0)

Tgt Ion: 43 Resp: 1285

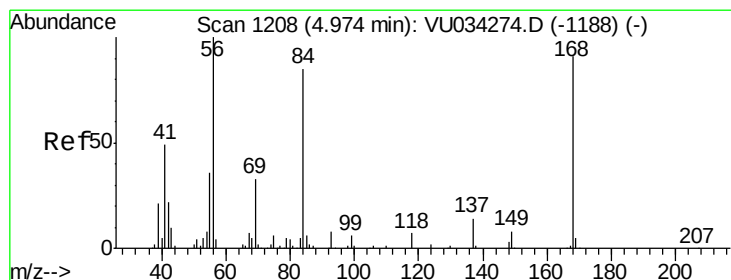
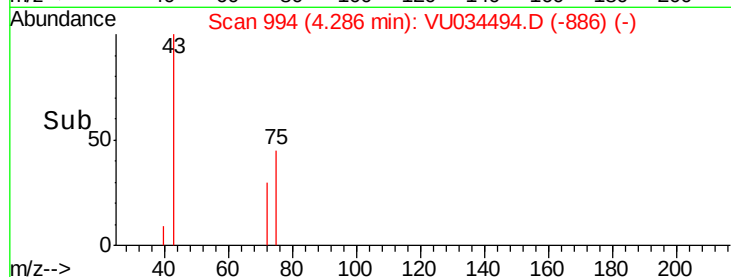
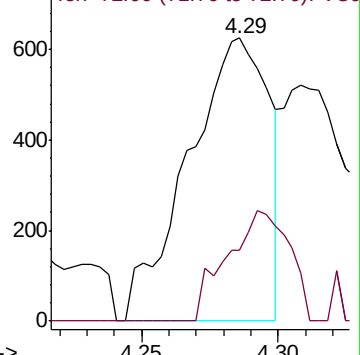
Ion Ratio Lower Upper

43 100

72 25.1 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VU034494.D (-961) (-)



#31

Cyclohexane

Concen: 0.960 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.02 min

Lab File: VU034494.D

Acq: 11 Sep 2019 22:57

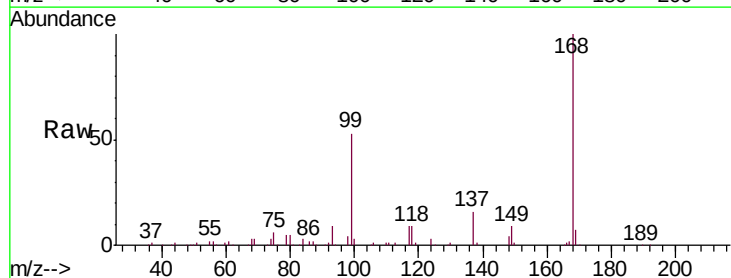
Tgt Ion: 56 Resp: 4220

Ion Ratio Lower Upper

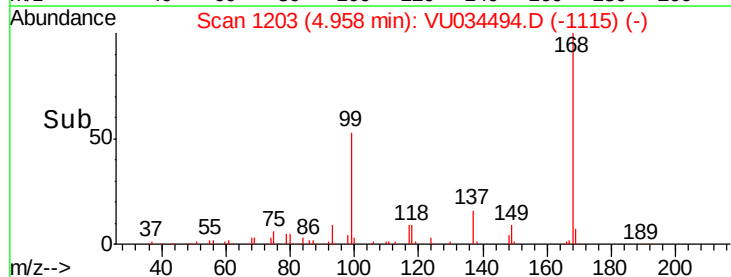
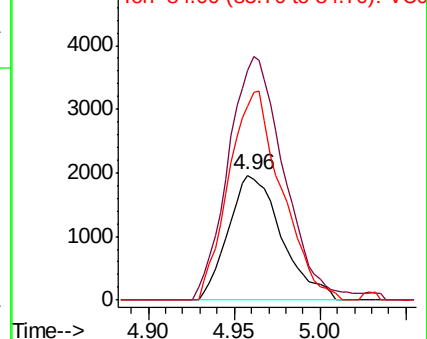
56 100

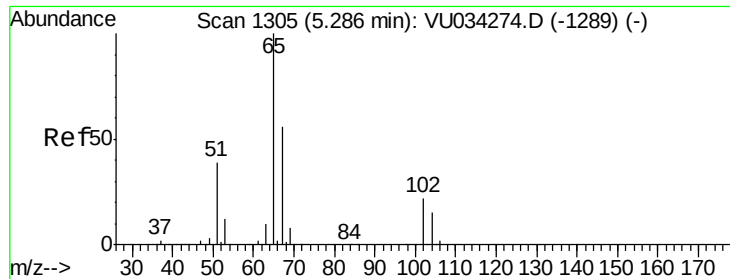
69 183.7 26.7 40.1#

84 155.6 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU034494.D (-1188) (-)

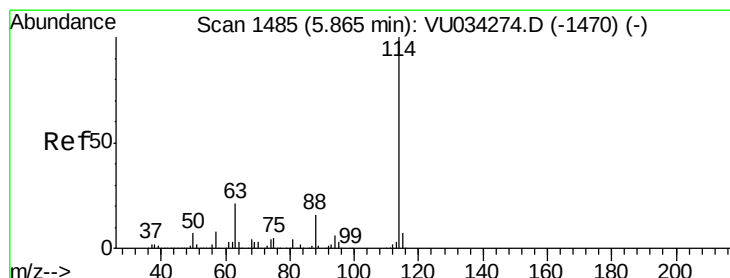
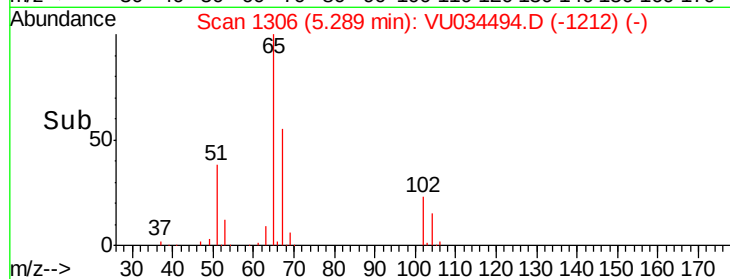
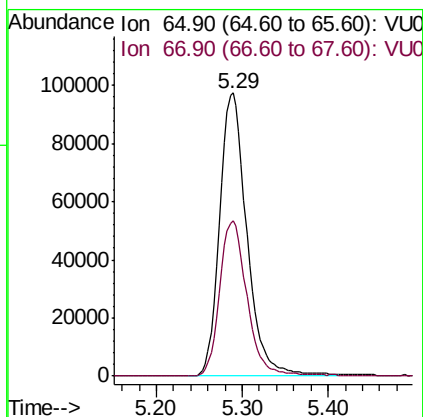
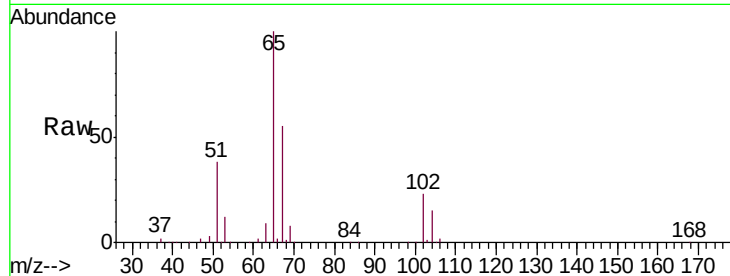




#33
 1,2-Dichloroethane-d4
 Concen: 57.548 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034494.D
 Acq: 11 Sep 2019 22:57

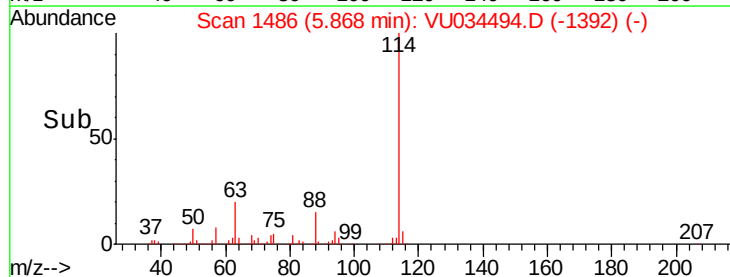
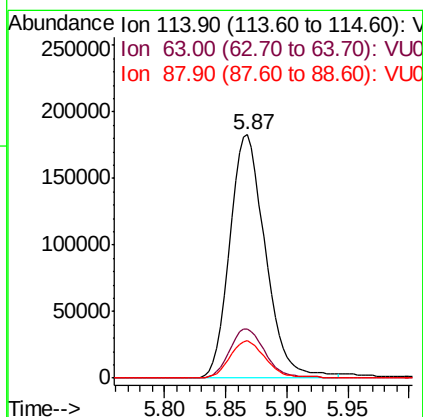
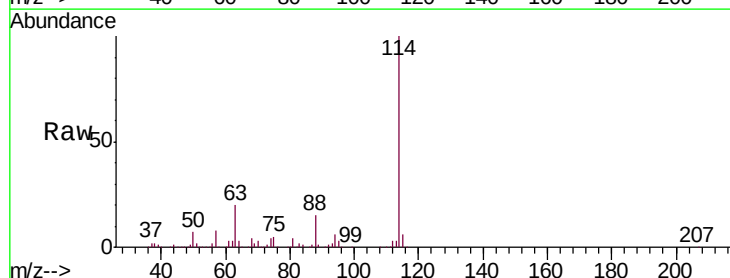
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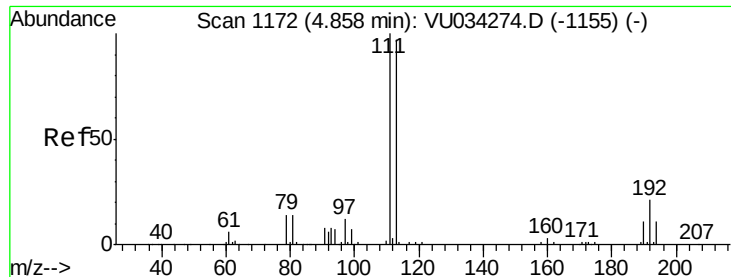
Tgt Ion: 65 Resp: 215994
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034494.D
 Acq: 11 Sep 2019 22:57

Tgt Ion: 114 Resp: 372561
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 42.4
 88 15.2 0.0 32.4

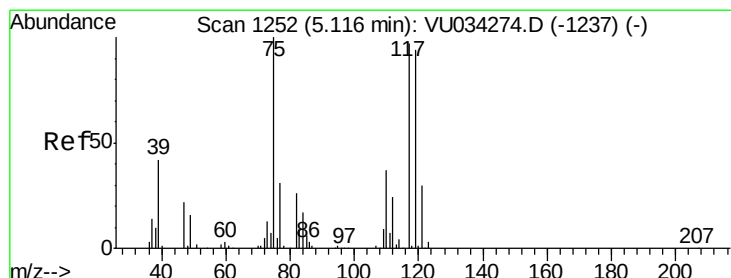
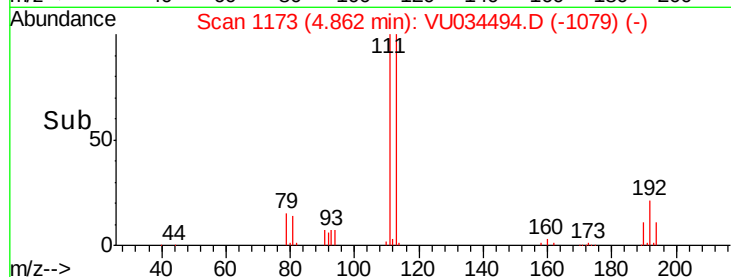
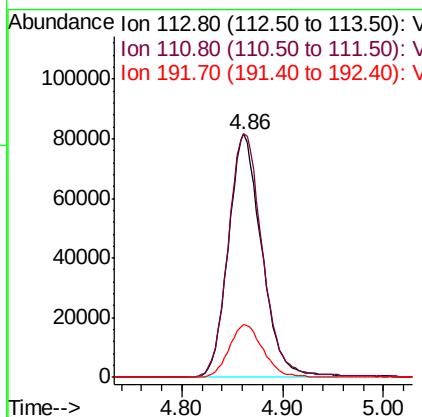
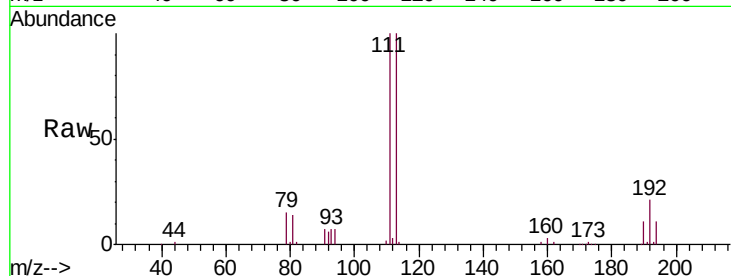




#35
 Dibromofluoromethane
 Concen: 54.227 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034494.D
 Acq: 11 Sep 2019 22:57

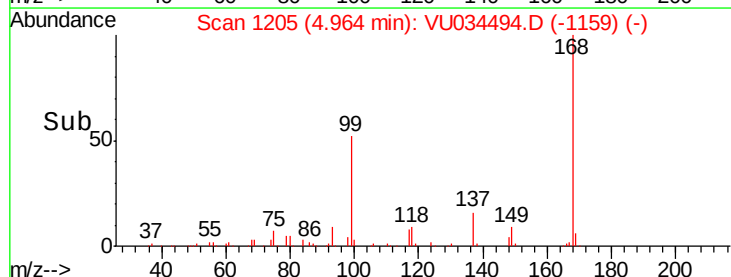
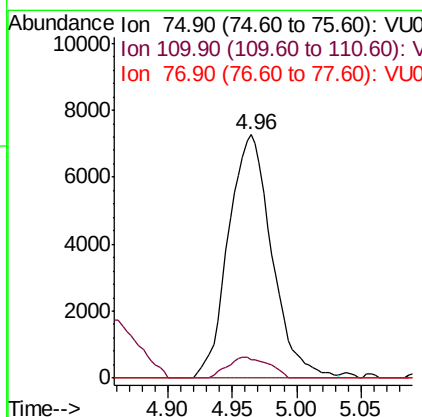
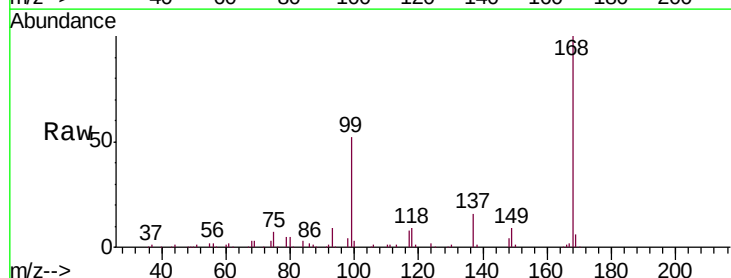
Instrument :
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 ClientSampled :
 T-11-A3-(0)

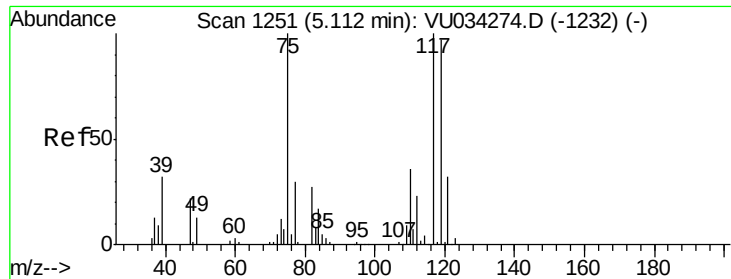
Tgt Ion	Ratio	Resp	Lower	Upper
113	100	187990		
111	102.2		81.5	122.3
192	22.1		17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 4.213 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034494.D
 Acq: 11 Sep 2019 22:57

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	17021		
110	8.2		18.3	54.9#
77	0.0		24.9	37.3#





#38

Carbon Tetrachloride

Concen: 4.920 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034494.D

Acq: 11 Sep 2019 22:57

Instrument :

MSVOA_U

ClientSampleId :

T-11-A3-(0)

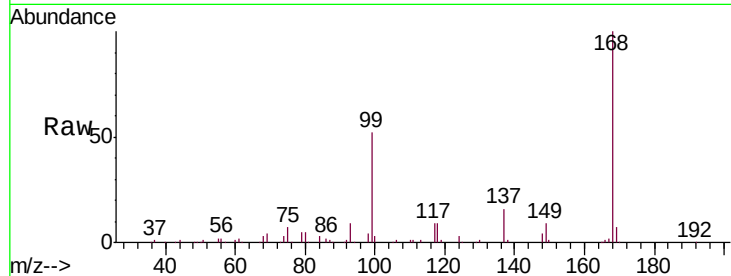
Tgt Ion:117 Resp: 21226

Ion Ratio Lower Upper

117 100

119 9.2 77.8 116.6#

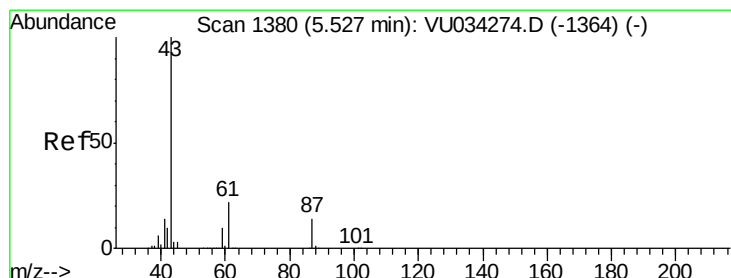
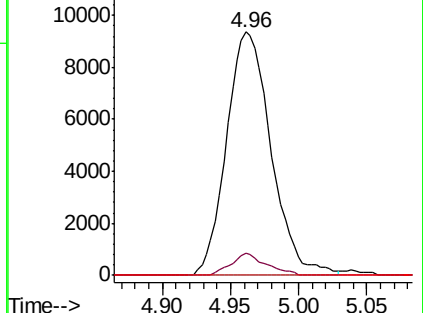
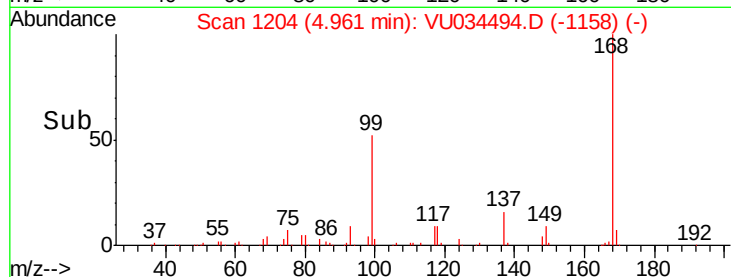
121 0.0 25.2 37.8#



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: 6.682 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034494.D

Acq: 11 Sep 2019 22:57

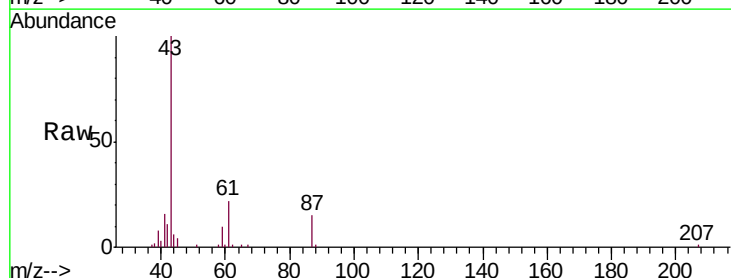
Tgt Ion: 43 Resp: 49797

Ion Ratio Lower Upper

43 100

61 20.5 17.1 25.7

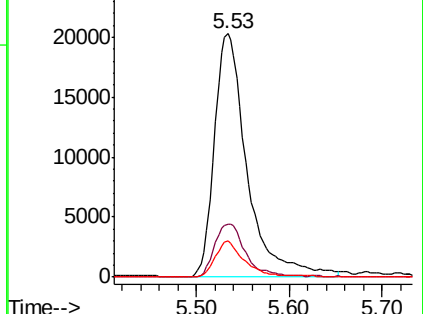
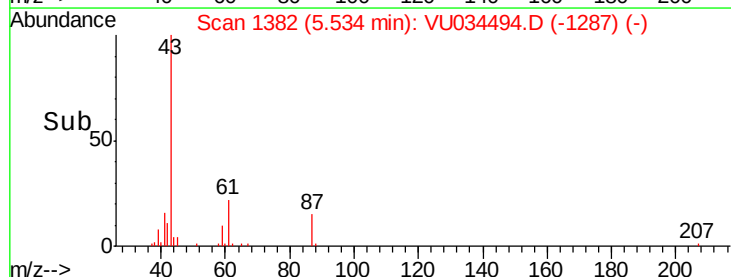
87 13.0 11.1 16.7

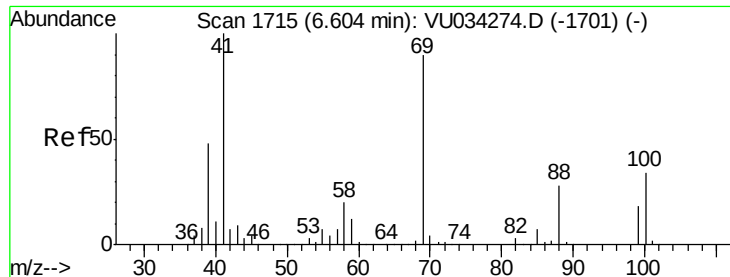


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

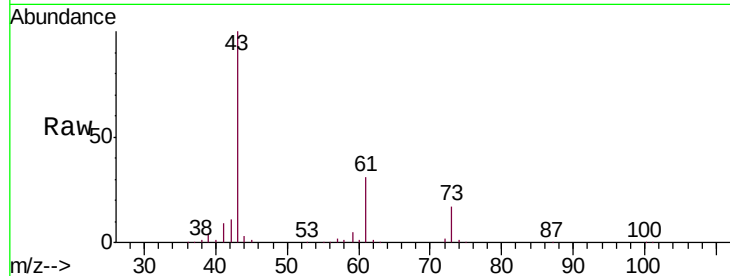




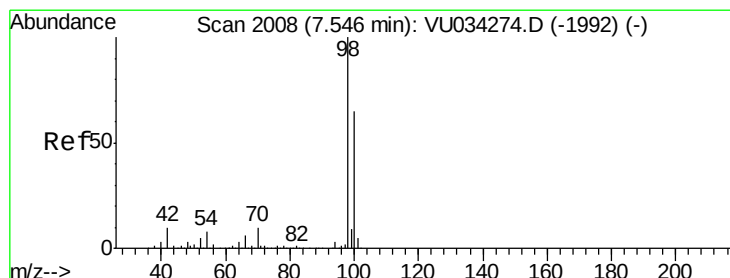
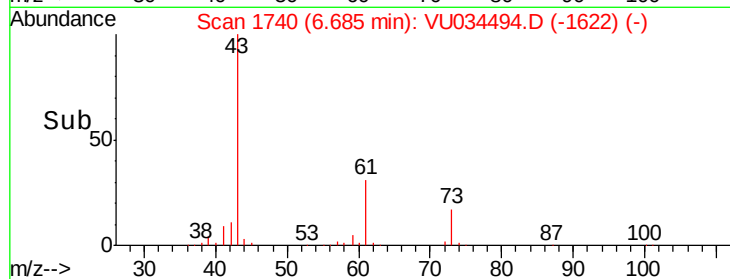
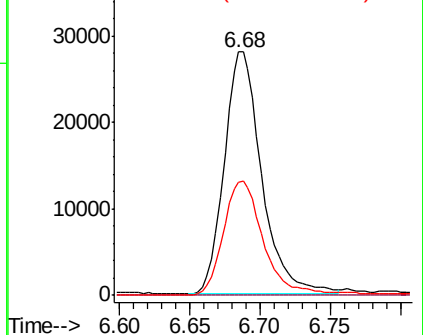
#48
Methyl methacrylate
Concen: 14.761 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.08 min
Lab File: VU034494.D
Acq: 11 Sep 2019 22:57

Instrument :
MSVOA_U
ClientSampleId :
T-11-A3-(0)

Tgt Ion: 41 Resp: 52246
Ion Ratio Lower Upper
41 100
69 0.0 72.8 109.2#
39 49.9 38.6 58.0

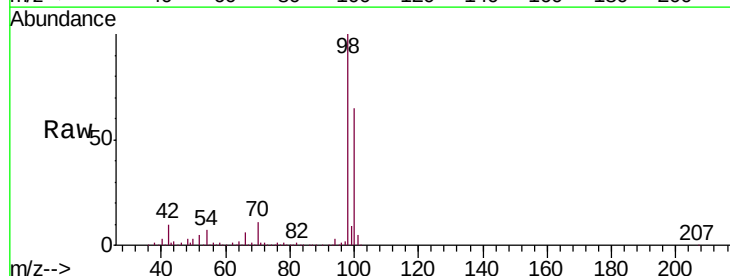


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

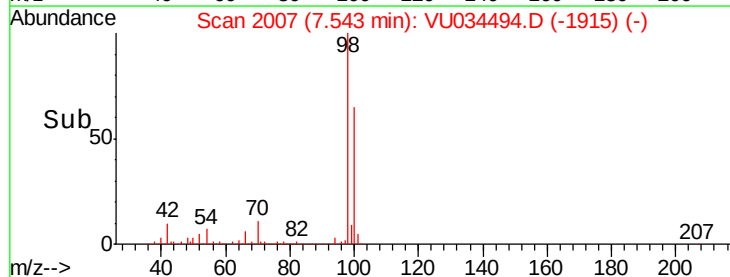
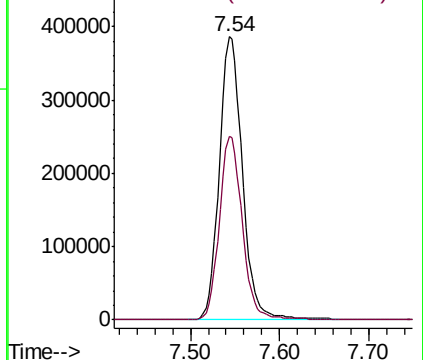


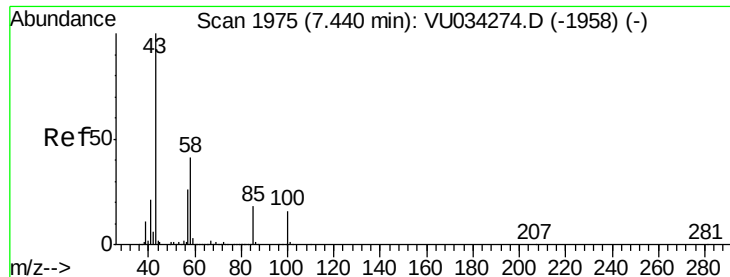
#50
Toluene-d8
Concen: 53.385 ug/l
RT: 7.54 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VU034494.D
Acq: 11 Sep 2019 22:57

Tgt Ion: 98 Resp: 695313
Ion Ratio Lower Upper
98 100
100 64.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 10.941 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034494.D

Acq: 11 Sep 2019 22:57

Instrument :

MSVOA_U

ClientSampleId :

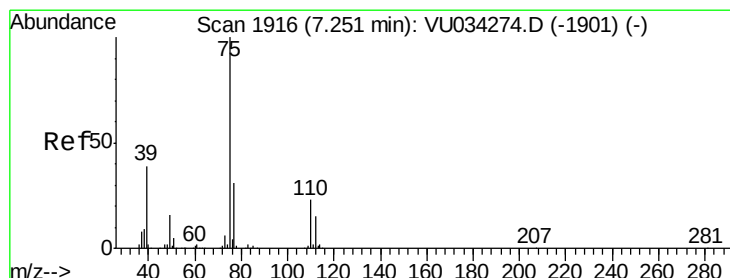
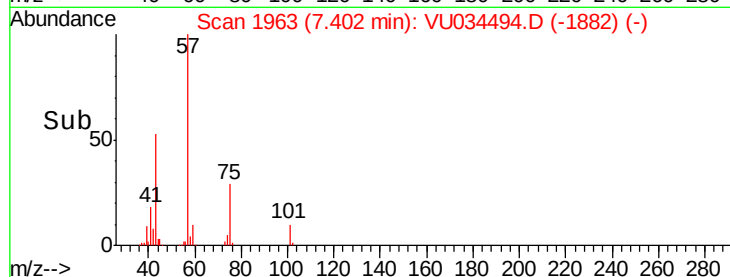
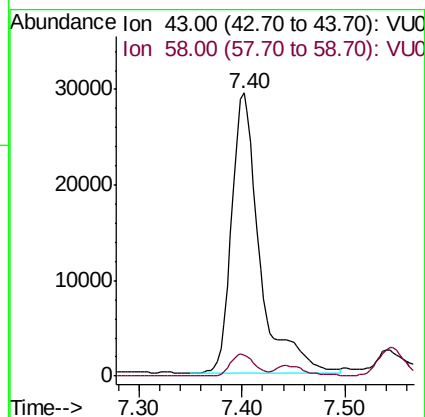
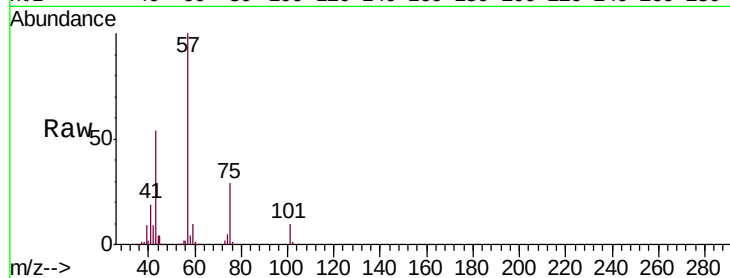
T-11-A3-(0)

Tgt Ion: 43 Resp: 56440

Ion Ratio Lower Upper

43 100

58 6.8 33.0 49.4#



#54

cis-1,3-Dichloropropene

Concen: 4.881 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034494.D

Acq: 11 Sep 2019 22:57

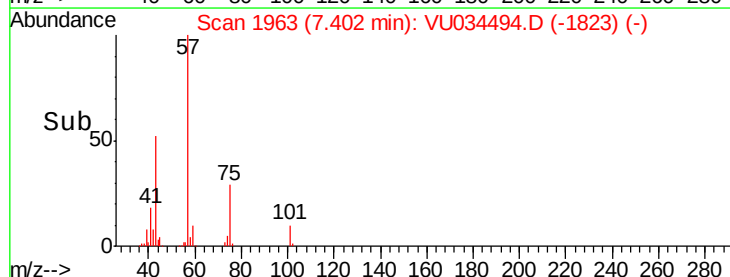
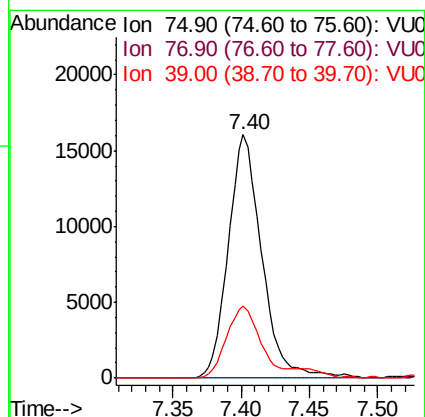
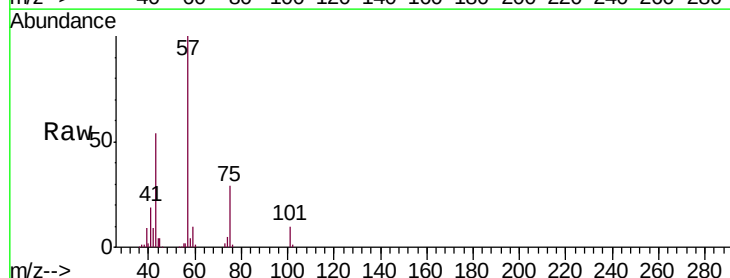
Tgt Ion: 75 Resp: 27349

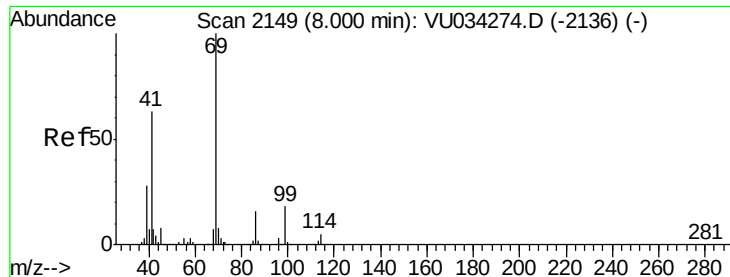
Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

39 29.4 31.2 46.8#





#56

Ethyl methacrylate

Concen: 3.097 ug/l

RT: 7.94 min Scan# 2131

Delta R.T. -0.06 min

Lab File: VU034494.D

Acq: 11 Sep 2019 22:57

Instrument :

MSVOA_U

ClientSampleId :

T-11-A3-(0)

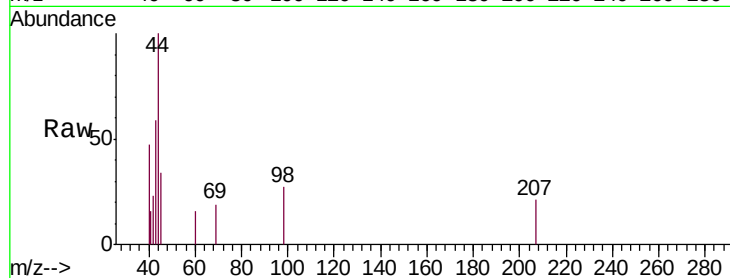
Tgt Ion: 69 Resp: 125

Ion Ratio Lower Upper

69 100

41 0.0 49.5 74.3#

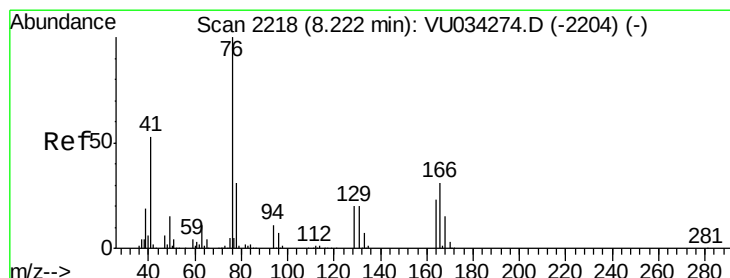
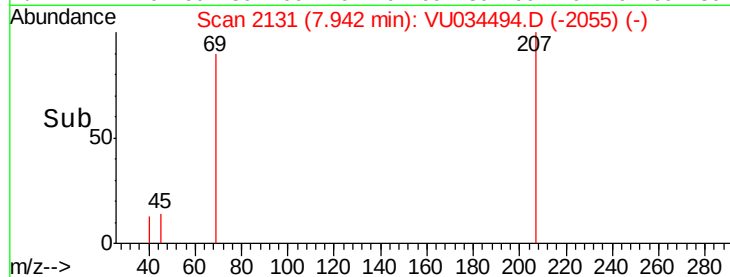
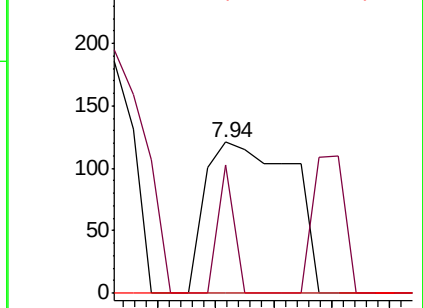
39 0.0 22.5 33.7#



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: 0.509 ug/l

RT: 8.40 min Scan# 2274

Delta R.T. 0.18 min

Lab File: VU034494.D

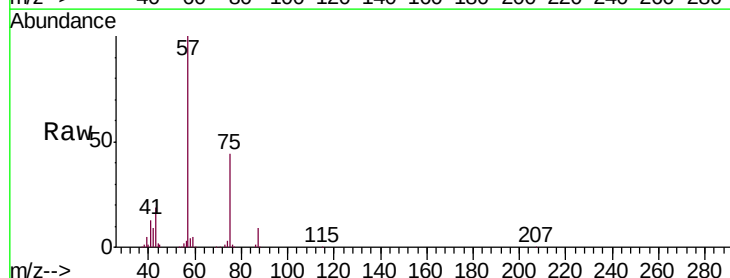
Acq: 11 Sep 2019 22:57

Tgt Ion: 76 Resp: 3080

Ion Ratio Lower Upper

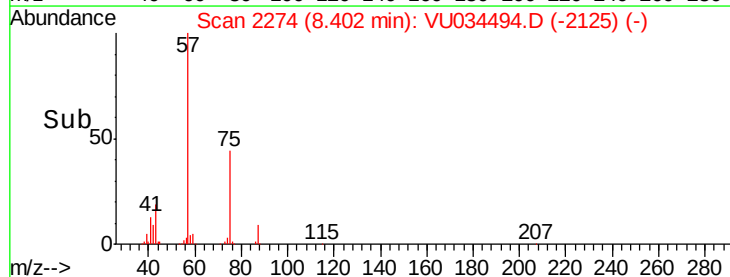
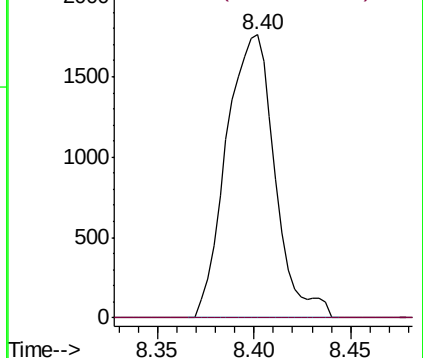
76 100

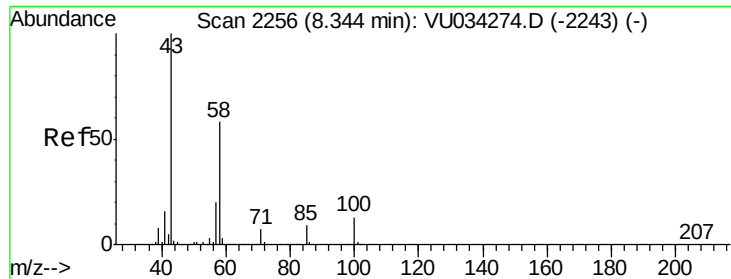
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

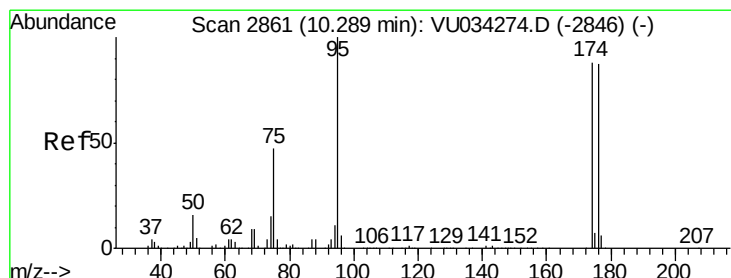
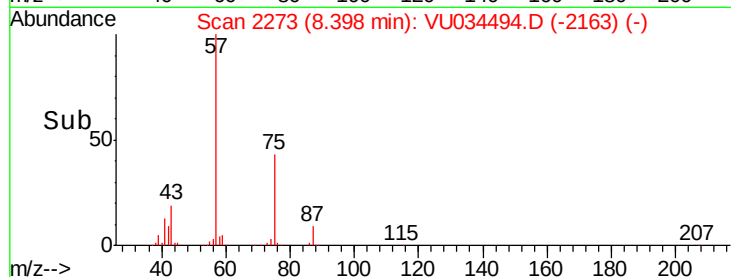
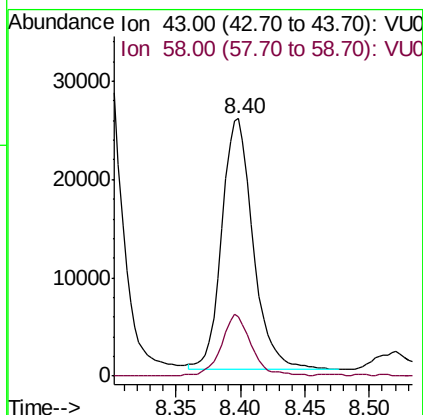
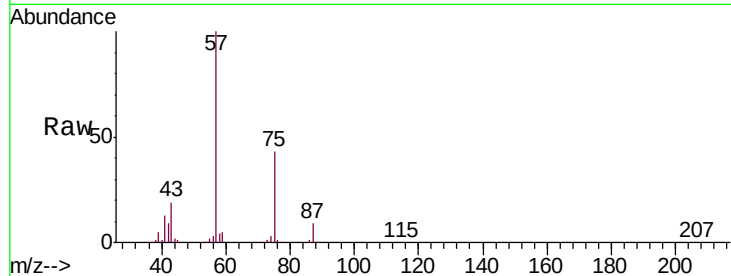




#59
2-Hexanone
Concen: 11.221 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034494.D
Acq: 11 Sep 2019 22:57

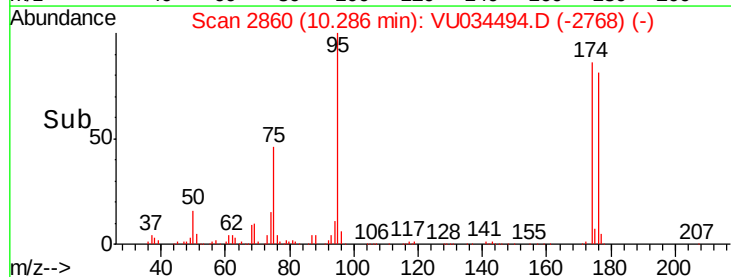
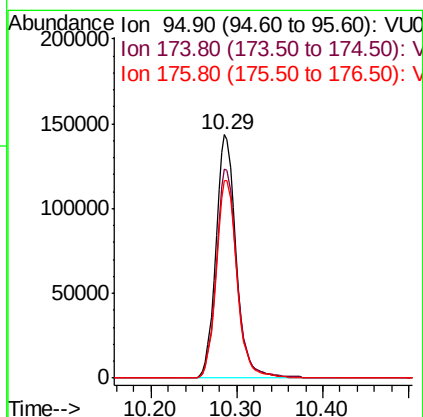
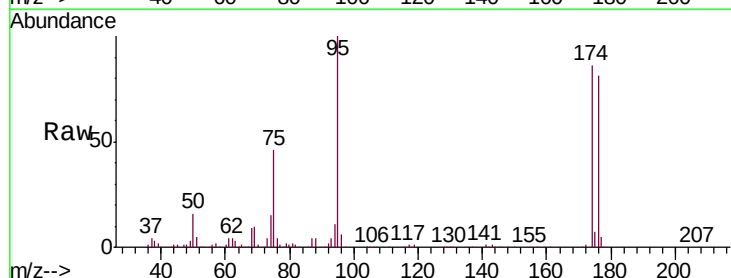
Instrument :
MSVOA_U
ClientSampleId :
T-11-A3-(0)

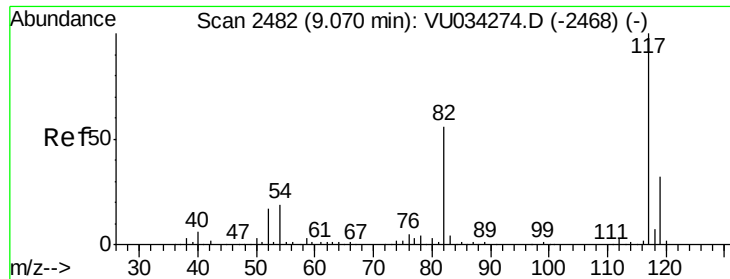
Tgt Ion: 43 Resp: 43241
Ion Ratio Lower Upper
43 100
58 23.9 28.8 86.5#



#62
4-Bromofluorobenzene
Concen: 46.871 ug/l
RT: 10.29 min Scan# 2860
Delta R.T. -0.00 min
Lab File: VU034494.D
Acq: 11 Sep 2019 22:57

Tgt Ion: 95 Resp: 235699
Ion Ratio Lower Upper
95 100
174 88.0 0.0 175.2
176 82.9 0.0 168.0

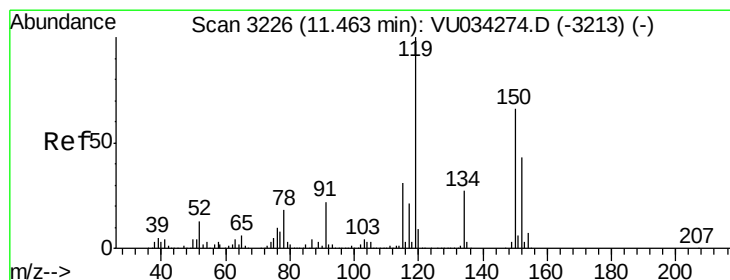
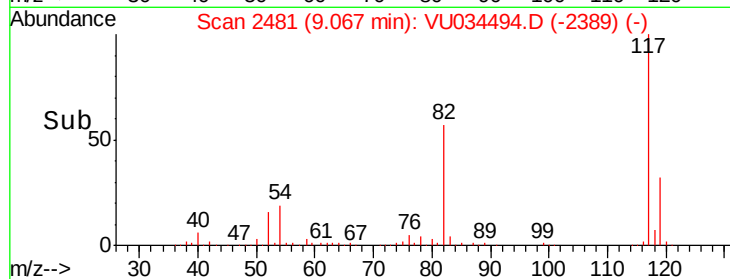
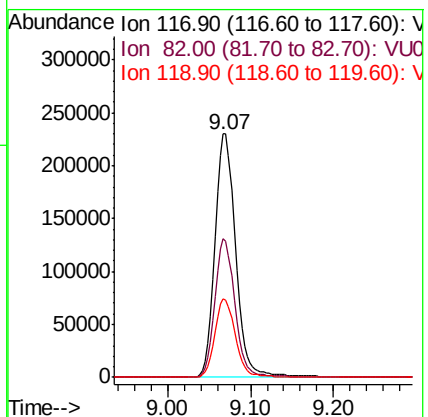
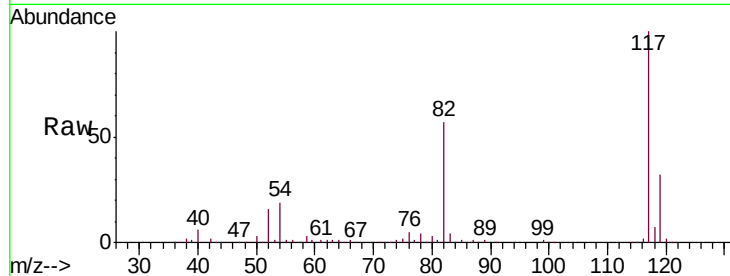




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2481
Delta R.T. -0.00 min
Lab File: VU034494.D
Acq: 11 Sep 2019 22:57

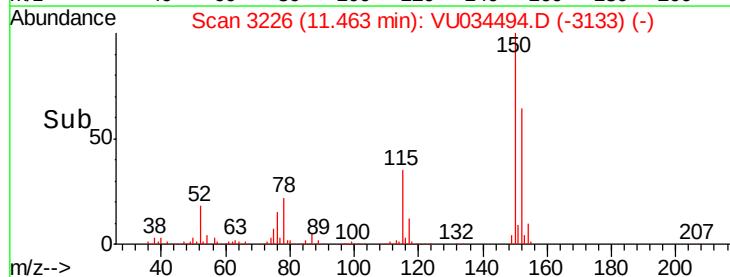
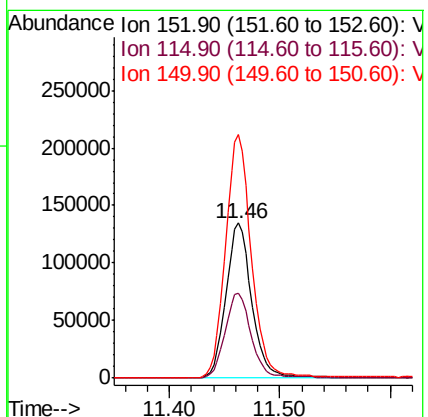
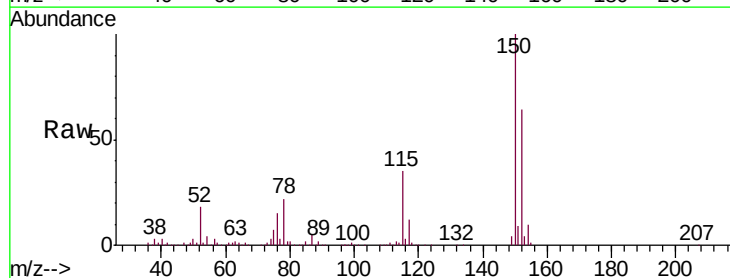
Instrument :
MSVOA_U
ClientSampleId :
T-11-A3-(0)

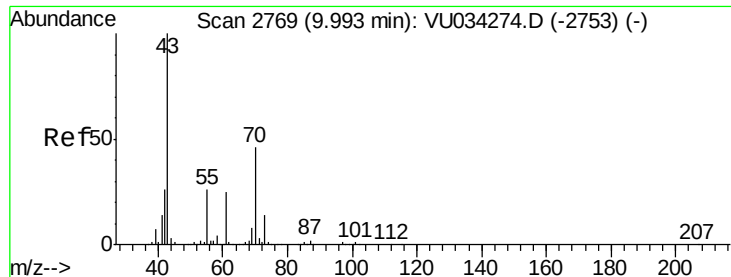
Tgt Ion:117 Resp: 399452
Ion Ratio Lower Upper
117 100
82 57.0 44.6 67.0
119 32.5 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034494.D
Acq: 11 Sep 2019 22:57

Tgt Ion:152 Resp: 219233
Ion Ratio Lower Upper
152 100
115 55.7 39.1 117.3
150 156.9 0.0 345.4





#74

N-ethyl acetate

Concen: 0.278 ug/l

RT: 9.92 min Scan# 2746

Delta R.T. -0.07 min

Lab File: VU034494.D

Acq: 11 Sep 2019 22:57

Instrument :

MSVOA_U

ClientSampled :

T-11-A3-(0)

Tgt Ion: 43 Resp: 1599

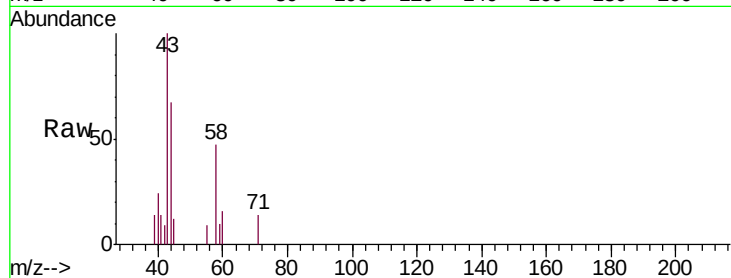
Ion Ratio Lower Upper

43 100

70 0.0 36.4 54.6#

55 2.6 21.2 31.8#

61 0.0 20.4 30.6#

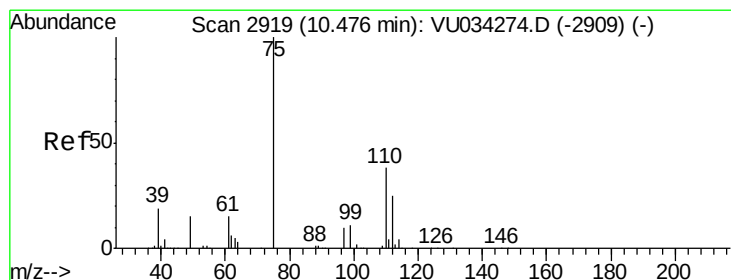
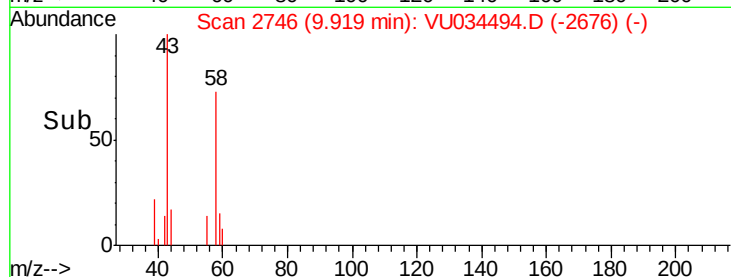
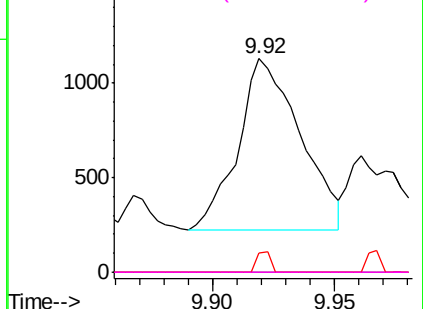


Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 22.822 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034494.D

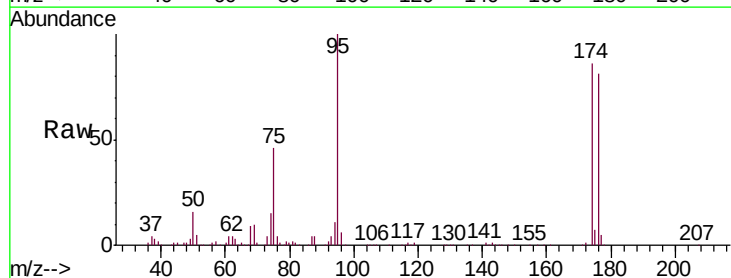
Acq: 11 Sep 2019 22:57

Tgt Ion: 75 Resp: 109214

Ion Ratio Lower Upper

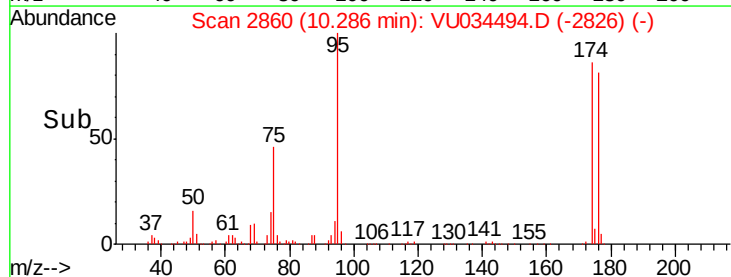
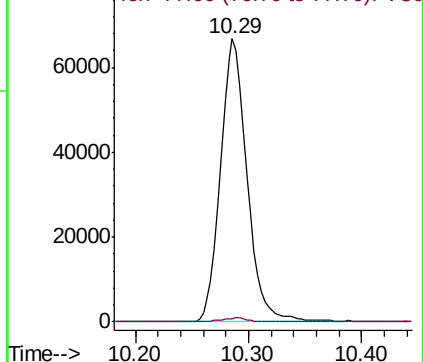
75 100

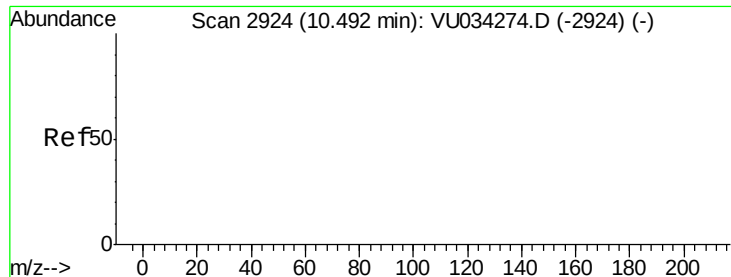
77 1.5 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

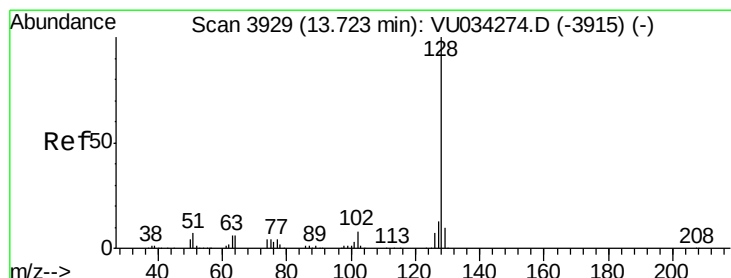
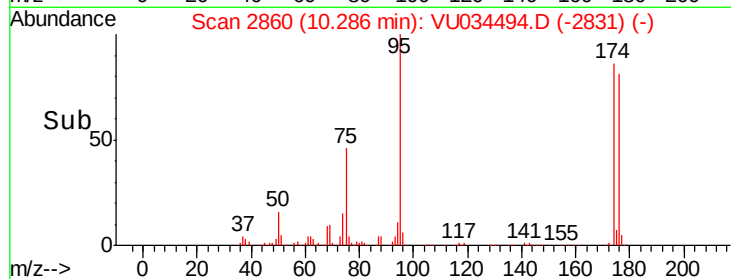
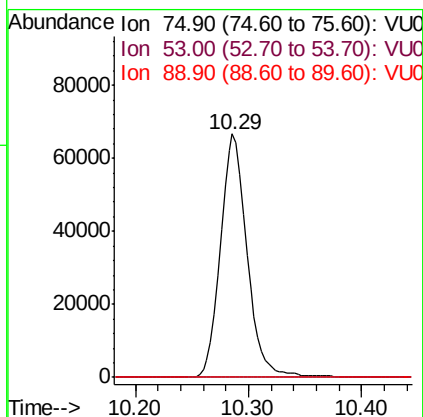
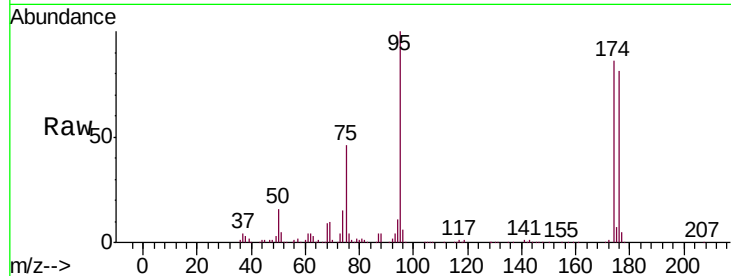




#81
trans-1,4-Dichloro-2-butene
Concen: 76.749 ug/l
RT: 10.29 min Scan# 2860
Delta R.T. -0.21 min
Lab File: VU034494.D
Acq: 11 Sep 2019 22:57

Instrument :
MSVOA_U
ClientSampleId :
T-11-A3-(0)

Tgt Ion: 75 Resp: 109214
Ion Ratio Lower Upper
75 100
53 0.2 0.0 0.0#
89 0.0 0.0 0.0



#95
Naphthalene
Concen: 3.969 ug/l
RT: 13.79 min Scan# 3950
Delta R.T. 0.07 min
Lab File: VU034494.D
Acq: 11 Sep 2019 22:57

Tgt Ion: 128 Resp: 44
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.4 12.6#

