

Data File : VU034499.D
Acq On : 12 Sep 2019 00:53
Operator : JC/SP
Sample : K4624-28
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T-11-A4-(4)

Quant Time: Sep 12 04:48:04 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	238910	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	367631	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	396634	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	217970	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	211475	58.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.00%	
35) Dibromofluoromethane	4.86	113	182226	53.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.54%	
50) Toluene-d8	7.55	98	678273	52.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.56%	
62) 4-Bromofluorobenzene	10.29	95	234201	47.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.40%	

Target Compounds			Qvalue			
5) Bromomethane	1.63	94	434	Below Cal	#	71
6) Chloroethane	1.71	64	154	Below Cal	#	43
10) Methyl Iodide	2.41	142	85	3.877	ug/l #	43
11) Tert butyl alcohol	2.82	59	2535	3.319	ug/l #	73
13) Acrolein	2.20	56	141	0.220	ug/l #	31
16) Acetone	2.31	43	11187	5.980	ug/l	95
18) Methyl Acetate	2.61	43	2404	0.528	ug/l	96
20) Methylene Chloride	2.69	84	3509	0.752	ug/l	99
29) Tetrahydrofuran	4.65	42	343	0.226	ug/l #	41
31) Cyclohexane	4.96	56	3747	0.885	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	16252	4.076	ug/l #	48
38) Carbon Tetrachloride	4.96	117	20406	4.793	ug/l #	17
43) Isopropyl Acetate	5.53	43	19687	2.677	ug/l	98
48) Methyl methacrylate	6.69	41	14254	4.081	ug/l #	34
51) 4-Methyl-2-Pentanone	7.40	43	45180	8.876	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	23909	4.324	ug/l #	66
56) Ethyl methacrylate	7.99	69	68	3.088	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	3093	0.518	ug/l #	43
59) 2-Hexanone	8.40	43	34152	8.981	ug/l #	55
76) 1,2,3-Trichloropropane	10.29	75	106234	22.328	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	106234	75.087	ug/l #	100

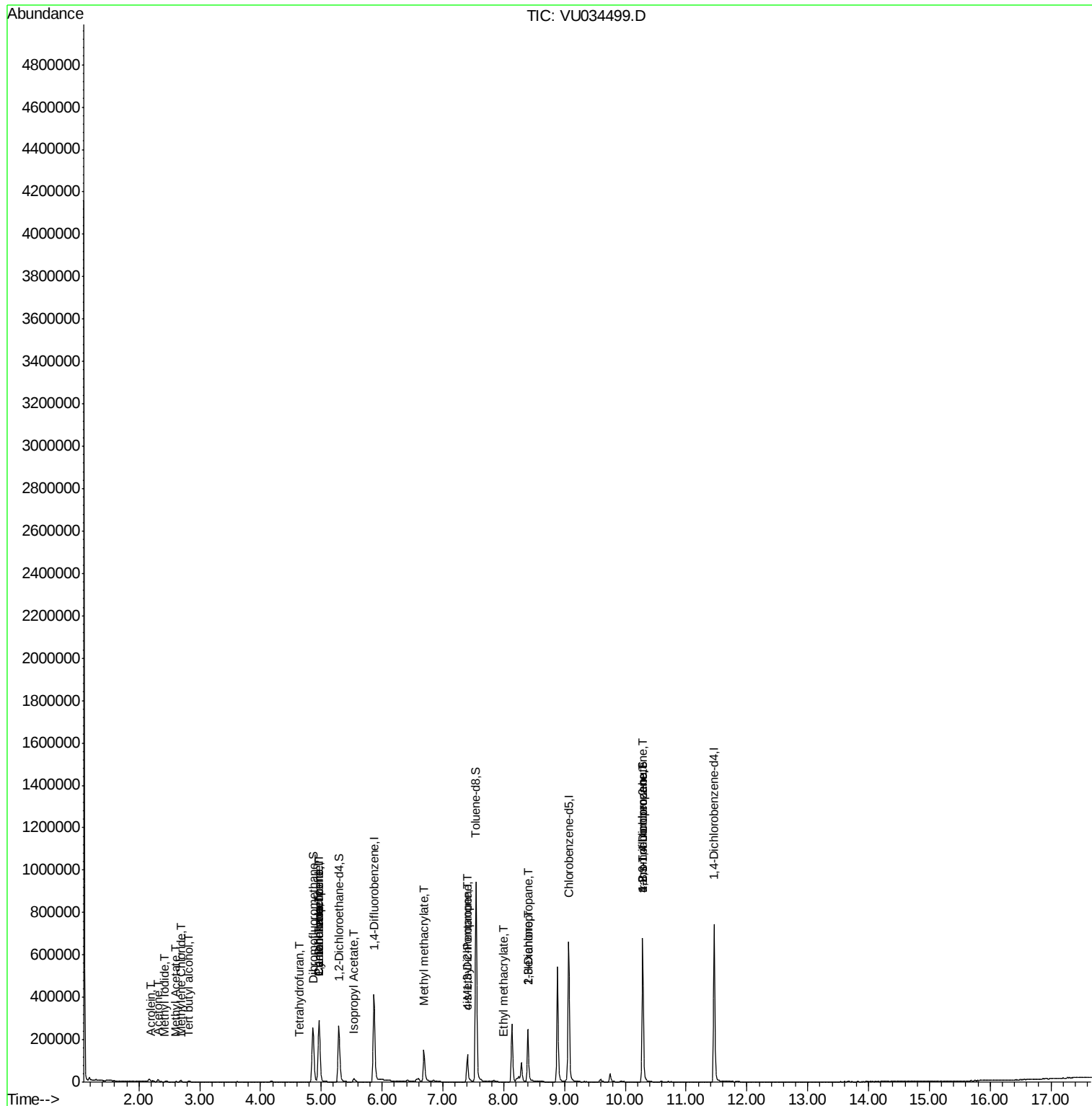
(#) = qualifier out of range (m) = manual integration (+) = signals summed

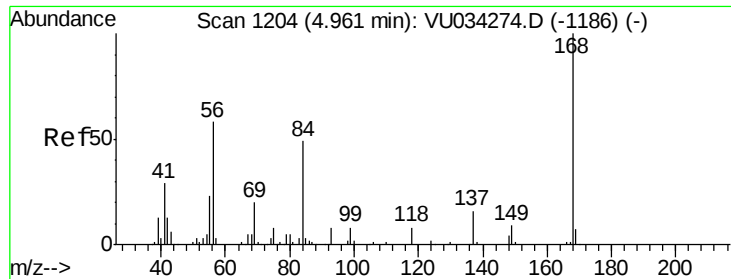
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034499.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_U

ClientSampleId :

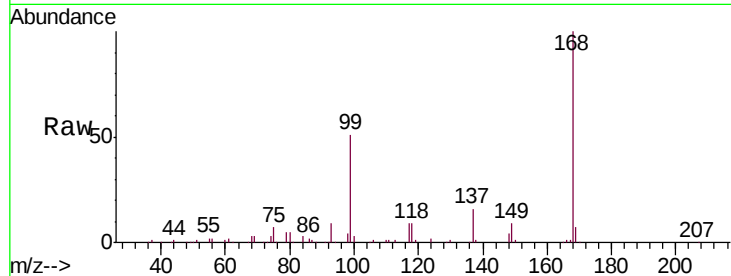
T-11-A4-(4)

Tgt Ion:168 Resp: 238910

Ion Ratio Lower Upper

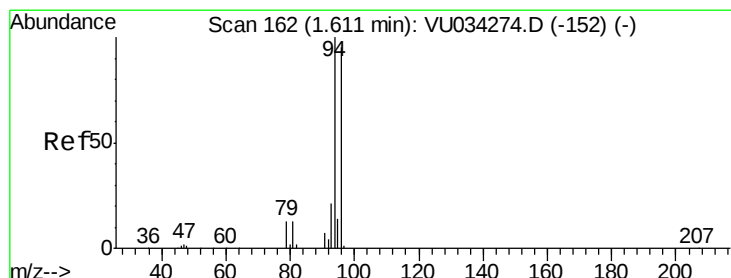
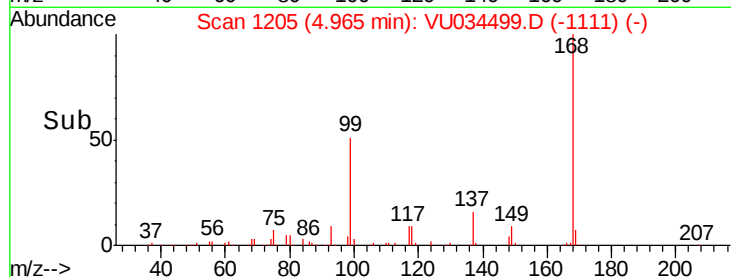
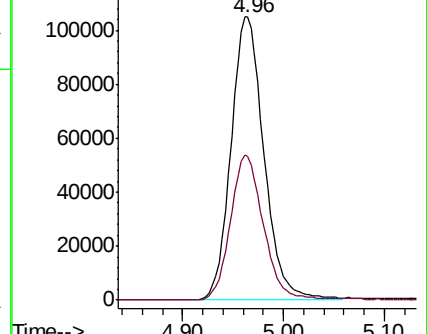
168 100

99 50.9 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# 169

Delta R.T. 0.02 min

Lab File: VU034499.D

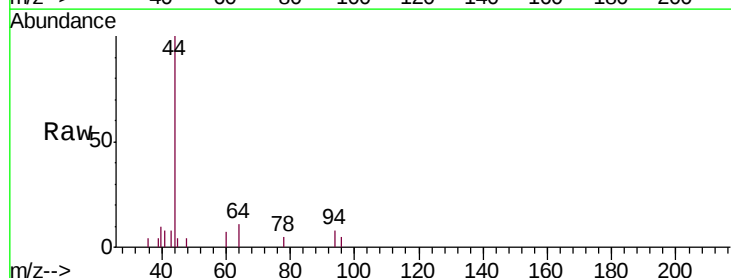
Acq: 12 Sep 2019 00:53

Tgt Ion: 94 Resp: 434

Ion Ratio Lower Upper

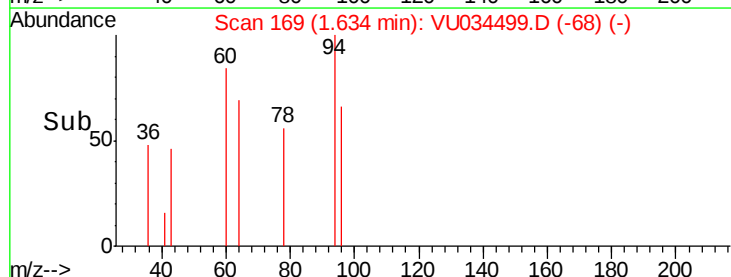
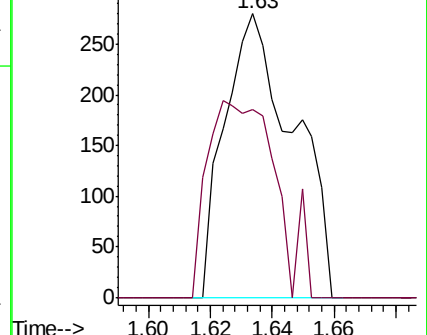
94 100

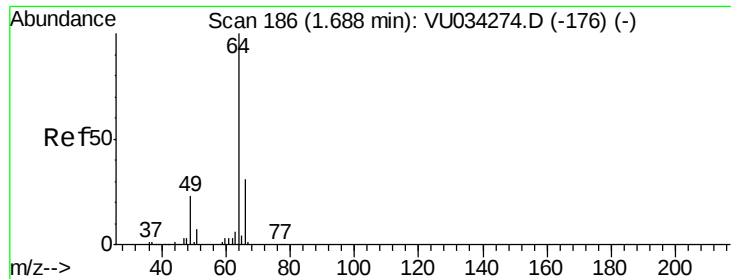
96 66.1 75.7 113.5#



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: 1.71 min Scan# 193

Delta R.T. 0.02 min

Lab File: VU034499.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_U

ClientSampleId :

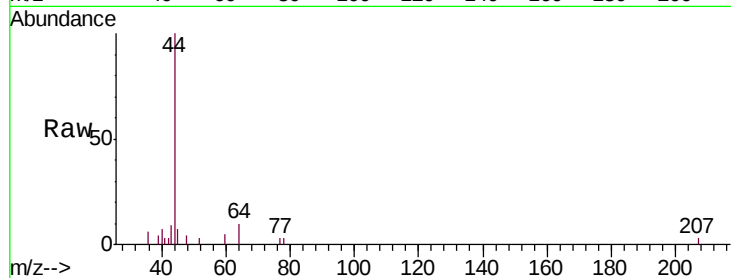
T-11-A4-(4)

Tgt Ion: 64 Resp: 154

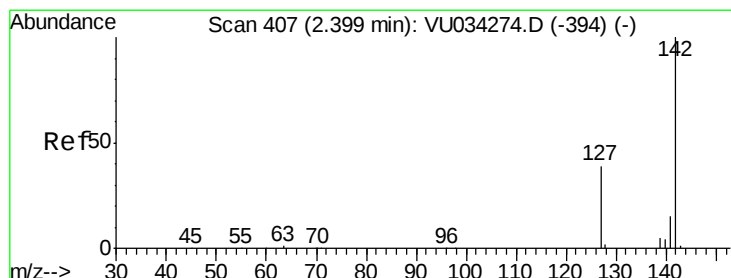
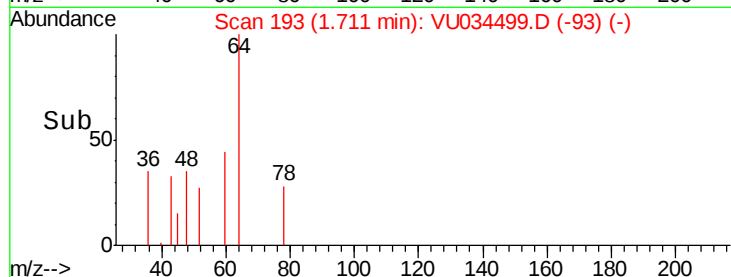
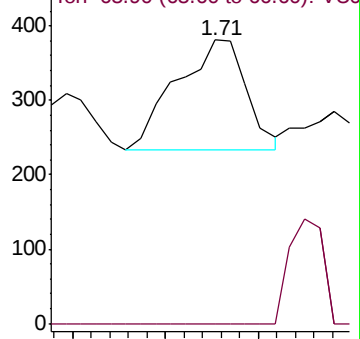
Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU034499.D (-193) (-)



#10

Methyl Iodide

Concen: 3.877 ug/l

RT: 2.41 min Scan# 411

Delta R.T. 0.01 min

Lab File: VU034499.D

Acq: 12 Sep 2019 00:53

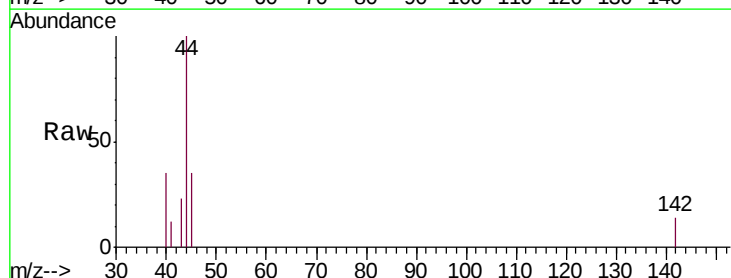
Tgt Ion: 142 Resp: 85

Ion Ratio Lower Upper

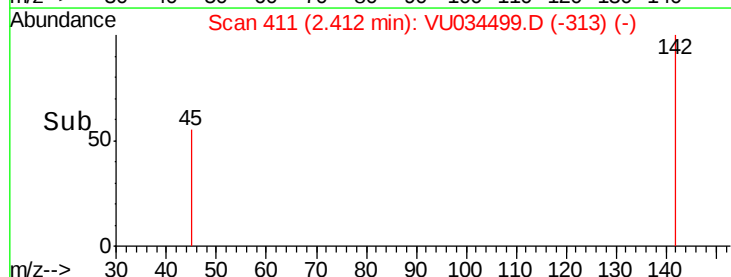
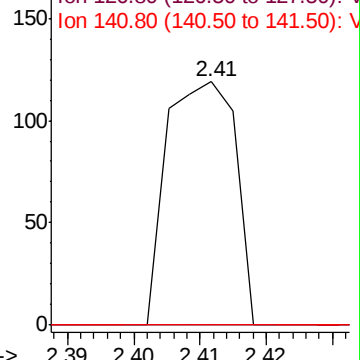
142 100

127 0.0 32.1 48.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VU034499.D (-411) (-)





#11

Tert butyl alcohol

Concen: 3.319 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.01 min

Lab File: VU034499.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_U

ClientSampled :

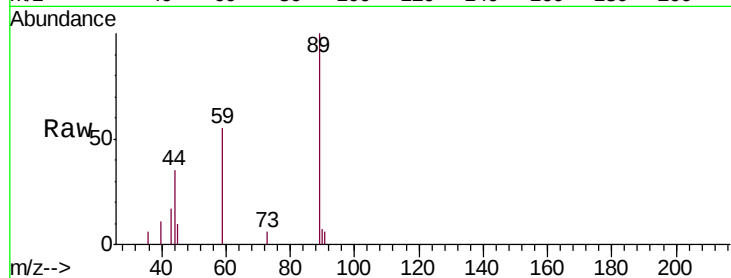
T-11-A4-(4)

Tgt Ion: 59 Resp: 2535

Ion Ratio Lower Upper

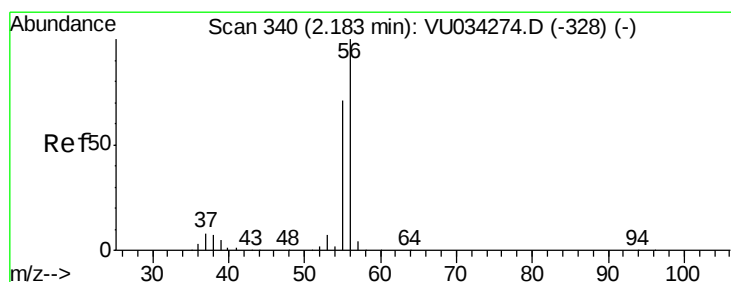
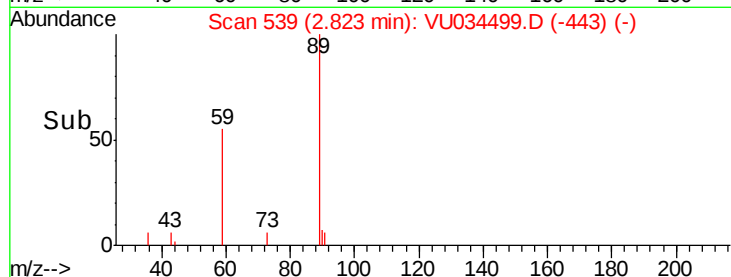
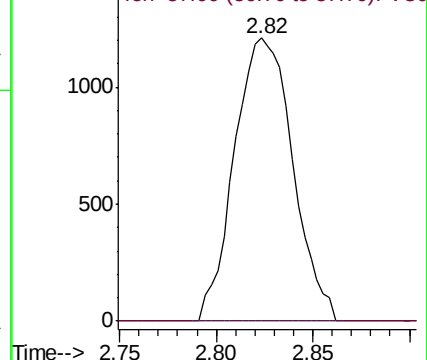
59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0



#13

Acrolein

Concen: 0.220 ug/l

RT: 2.20 min Scan# 345

Delta R.T. 0.02 min

Lab File: VU034499.D

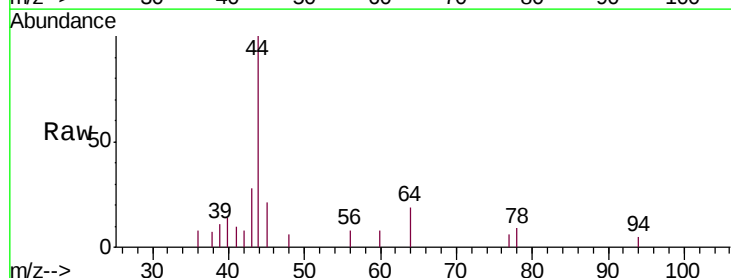
Acq: 12 Sep 2019 00:53

Tgt Ion: 56 Resp: 141

Ion Ratio Lower Upper

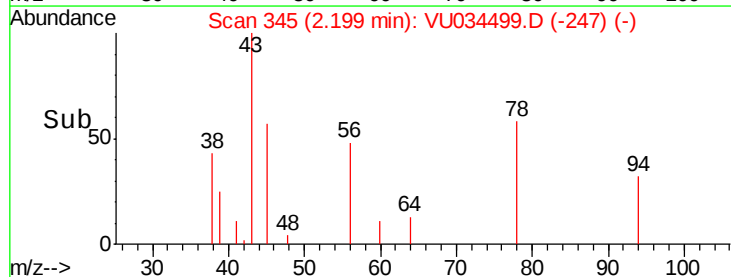
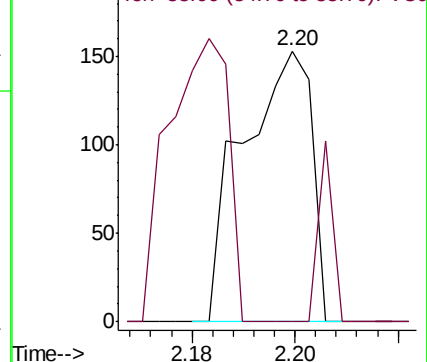
56 100

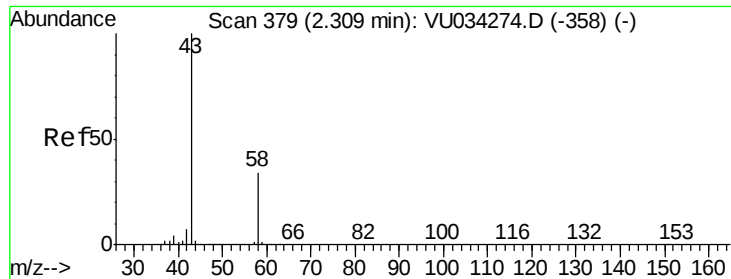
55 14.2 57.4 86.2#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0





#16

Acetone

Concen: 5.980 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034499.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_U

ClientSampleId :

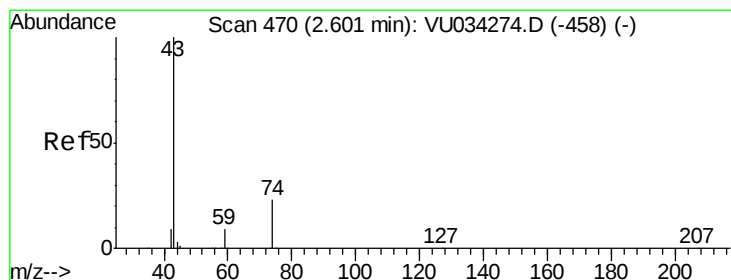
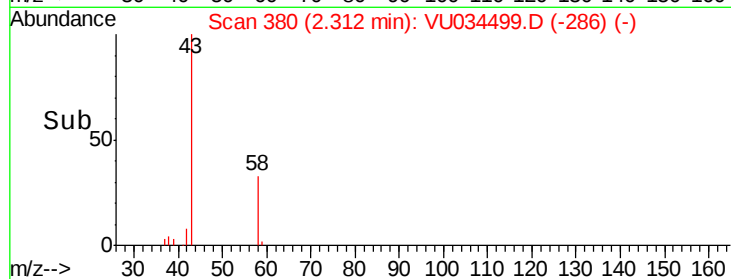
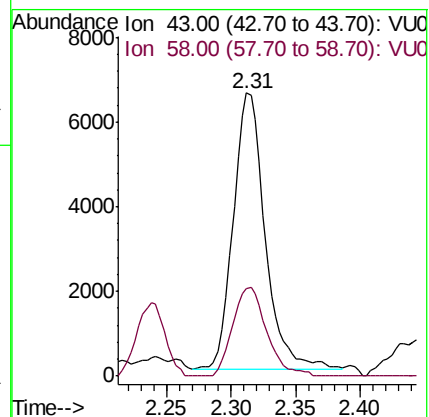
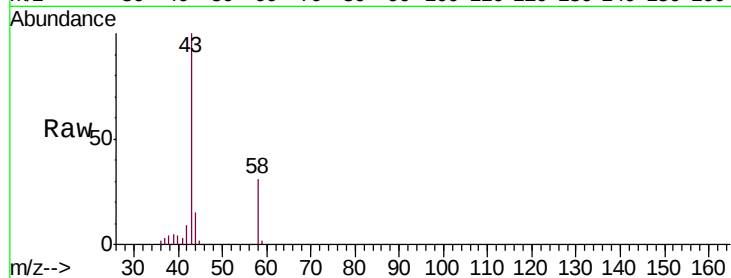
T-11-A4-(4)

Tgt Ion: 43 Resp: 11187

Ion Ratio Lower Upper

43 100

58 31.9 27.6 41.4



#18

Methyl Acetate

Concen: 0.528 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.01 min

Lab File: VU034499.D

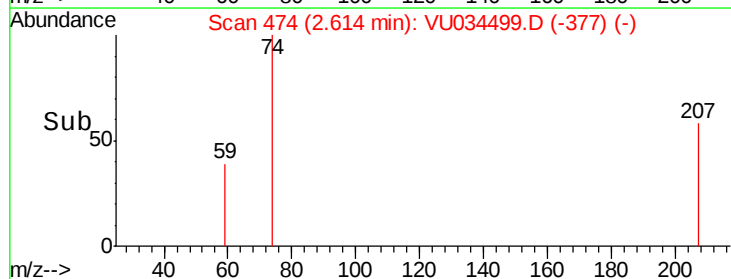
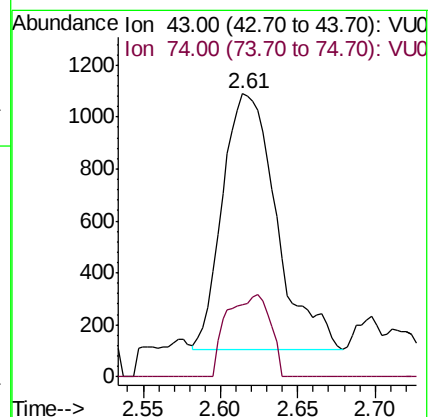
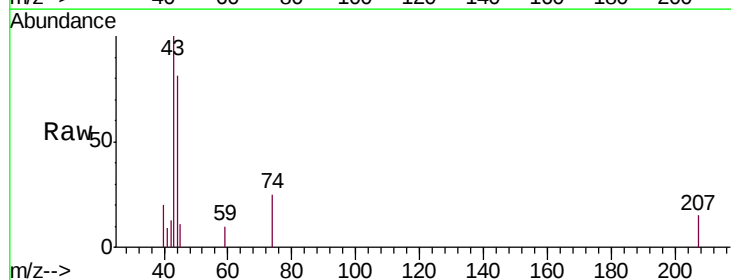
Acq: 12 Sep 2019 00:53

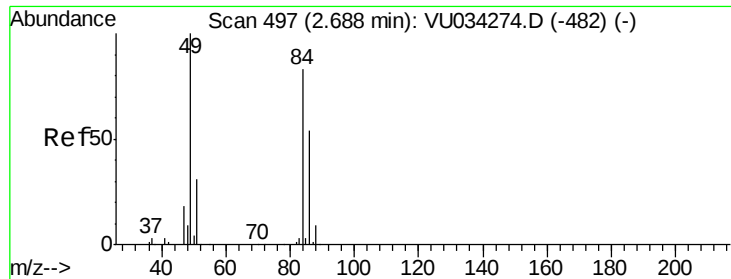
Tgt Ion: 43 Resp: 2404

Ion Ratio Lower Upper

43 100

74 25.7 18.9 28.3

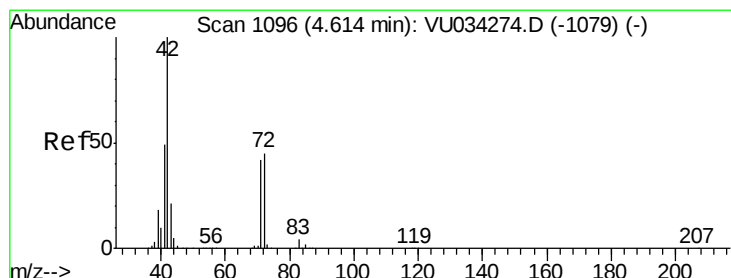
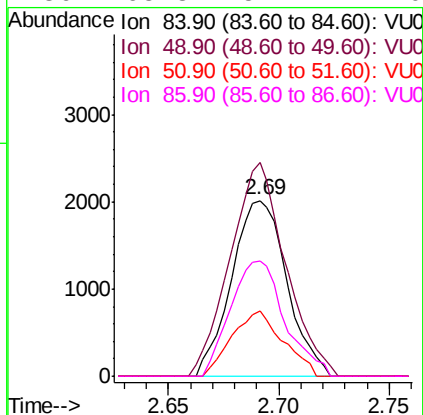
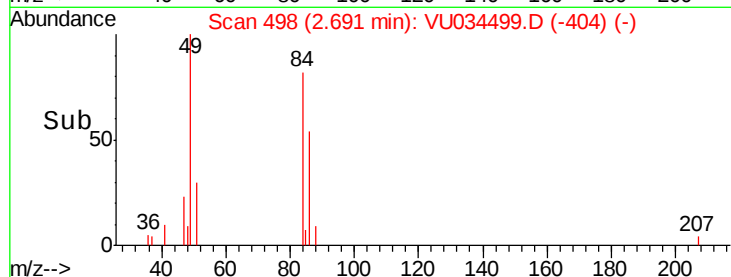
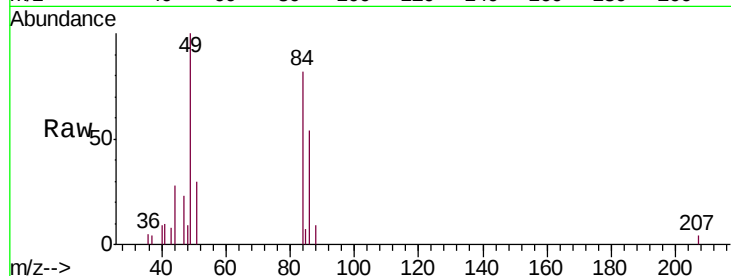




#20
Methylene Chloride
Concen: 0.752 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.00 min
Lab File: VU034499.D
Acq: 12 Sep 2019 00:53

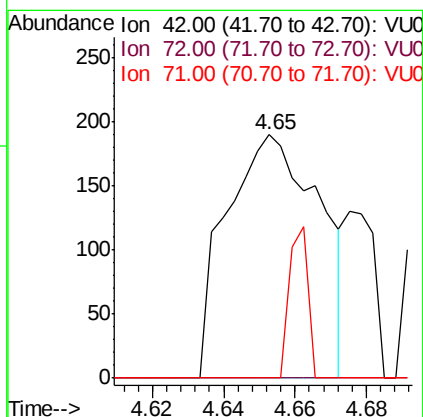
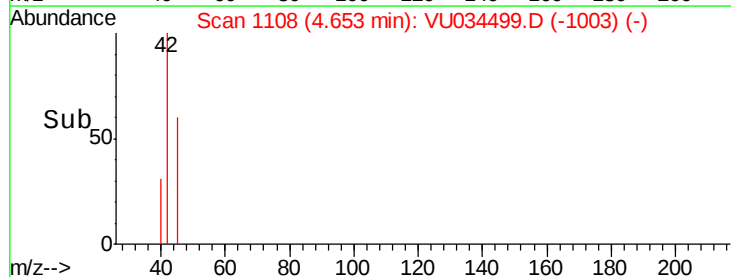
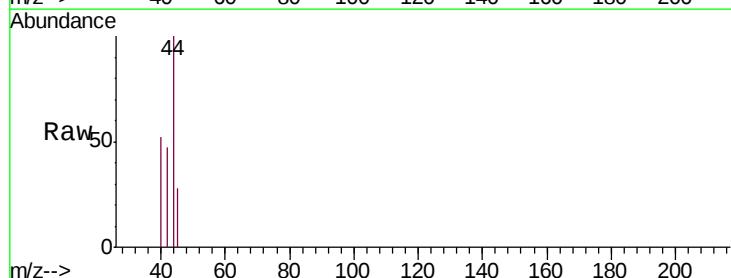
Instrument :
MSVOA_U
ClientSampleId :
T-11-A4-(4)

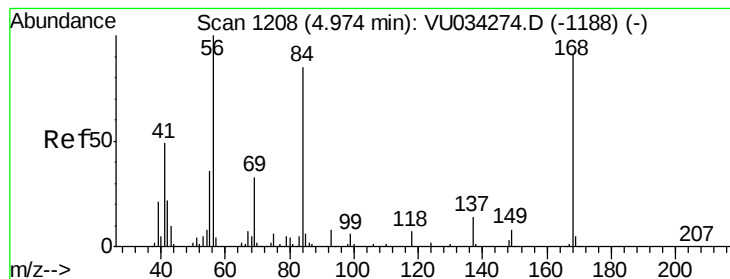
Tgt Ion:	84	Resp:	3509
Ion	Ratio	Lower	Upper
84	100		
49	121.5	96.0	144.0
51	37.0	30.0	45.0
86	65.8	51.4	77.0



#29
Tetrahydrofuran
Concen: 0.226 ug/l
RT: 4.65 min Scan# 1108
Delta R.T. 0.04 min
Lab File: VU034499.D
Acq: 12 Sep 2019 00:53

Tgt Ion:	42	Resp:	343
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.6	54.8#
71	12.2	34.3	51.5#





#31

Cyclohexane

Concen: 0.885 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034499.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_U

ClientSampleId :

T-11-A4-(4)

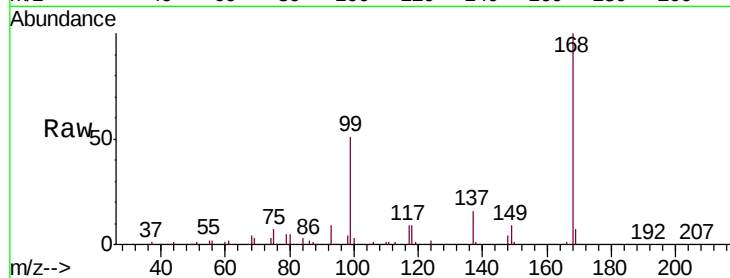
Tgt Ion: 56 Resp: 3747

Ion Ratio Lower Upper

56 100

69 194.4 26.7 40.1#

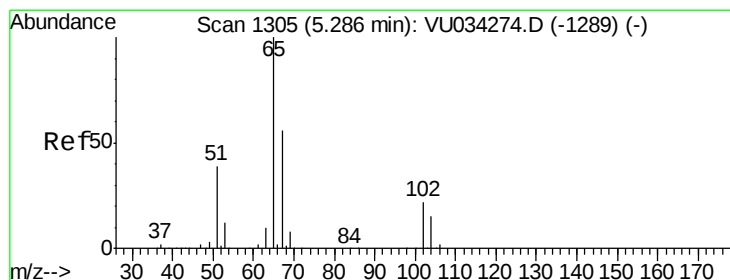
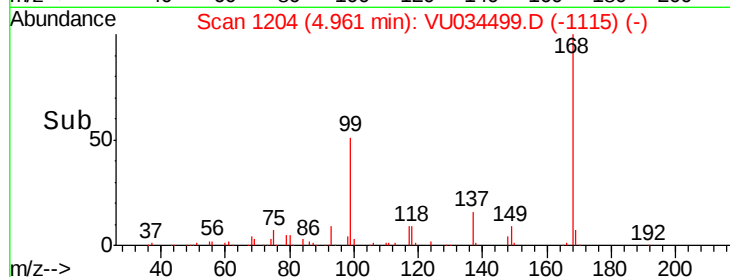
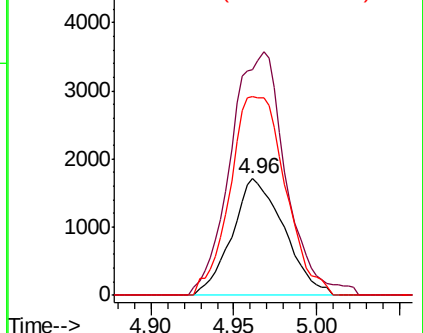
84 171.2 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#33

1,2-Dichloroethane-d4

Concen: 58.503 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU034499.D

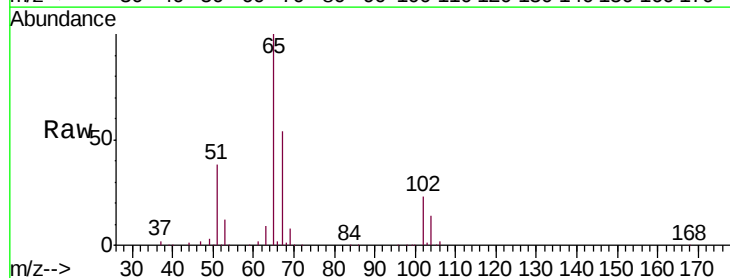
Acq: 12 Sep 2019 00:53

Tgt Ion: 65 Resp: 211475

Ion Ratio Lower Upper

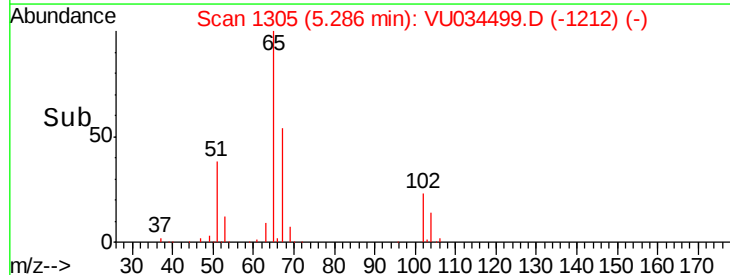
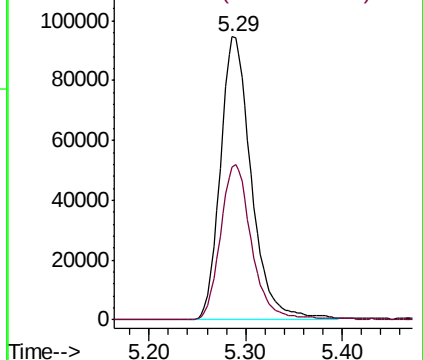
65 100

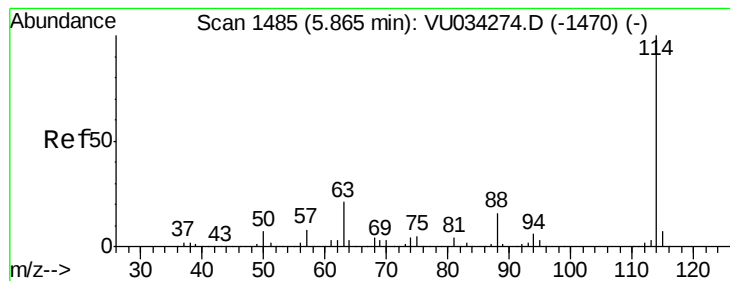
67 54.9 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034499.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_U

ClientSampleId :

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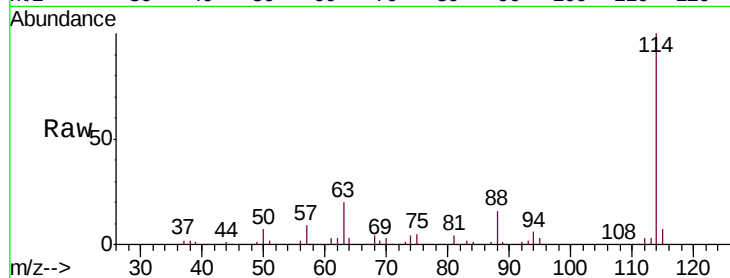
Tgt Ion:114 Resp: 367631

Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.4

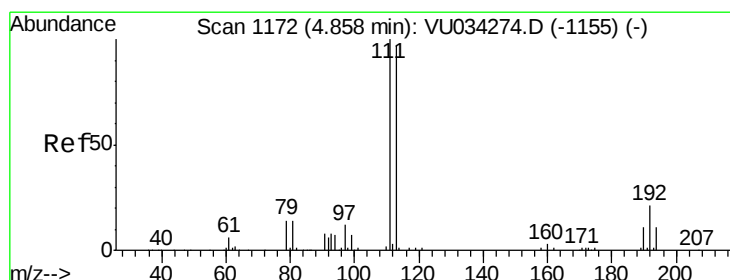
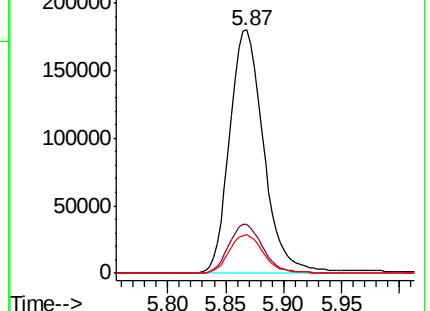
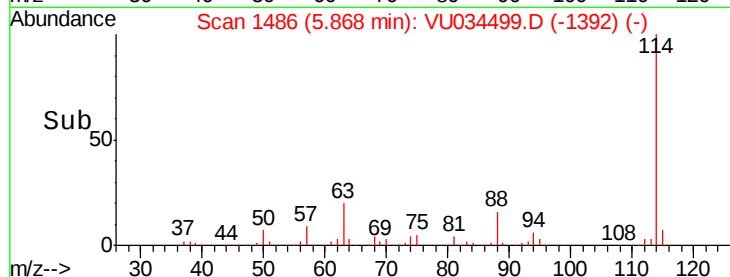
88 15.7 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 53.270 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034499.D

Acq: 12 Sep 2019 00:53

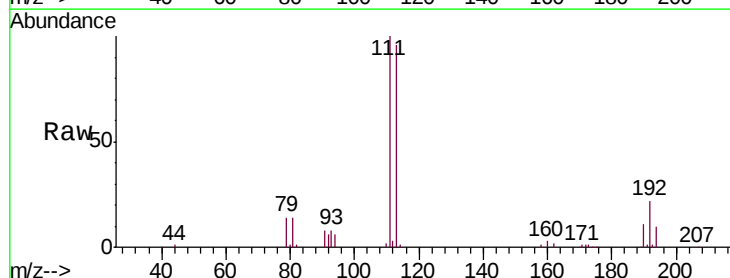
Tgt Ion:113 Resp: 182226

Ion Ratio Lower Upper

113 100

111 102.8 81.5 122.3

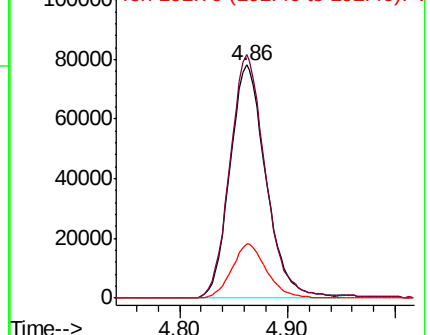
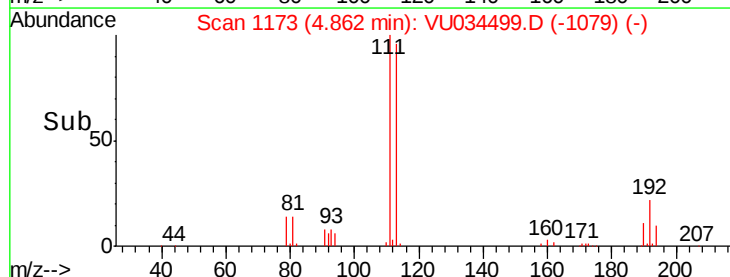
192 22.4 17.8 26.8

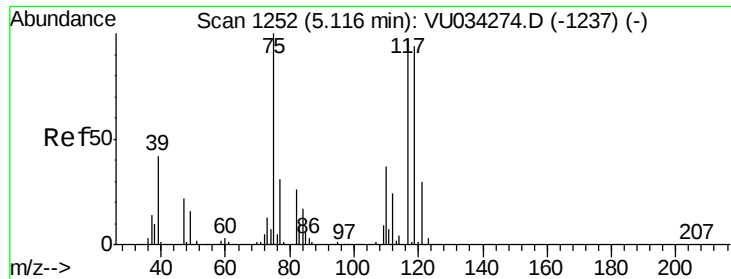


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

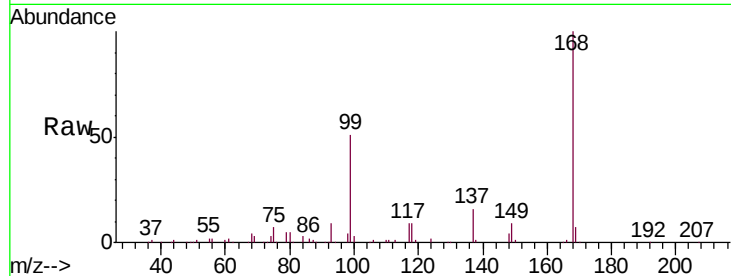




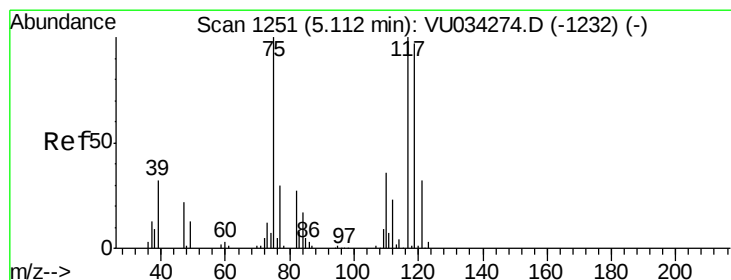
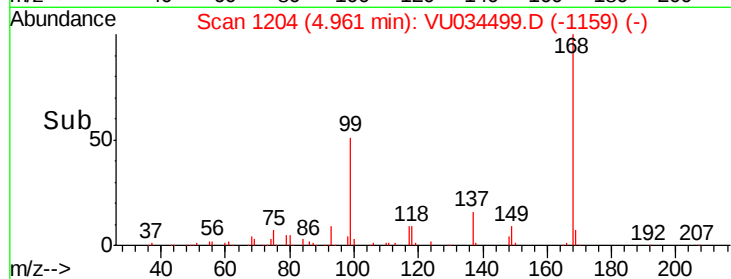
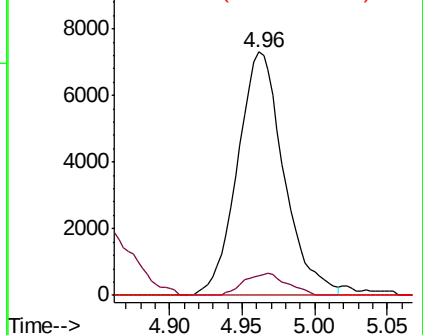
#36
 1,1-Dichloropropene
 Concen: 4.076 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034499.D
 Acq: 12 Sep 2019 00:53

Instrument :
 MSVOA_U
 ClientSampleId :
 T-11-A4-(4)

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.3	54.9#
77	0.0	24.9	37.3#

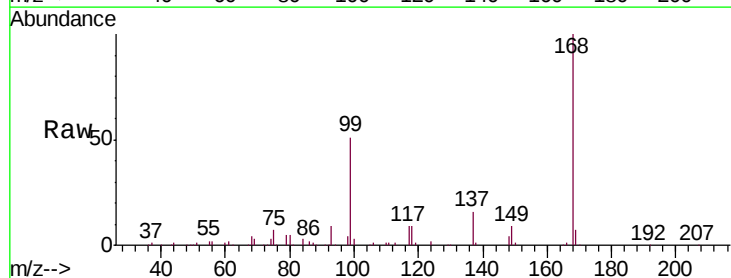


Abundance Ion 74.90 (74.60 to 75.60): VU034274.D (-1237) (-)
 Ion 109.90 (109.60 to 110.60): VU034274.D (-1237) (-)
 Ion 76.90 (76.60 to 77.60): VU034274.D (-1237) (-)

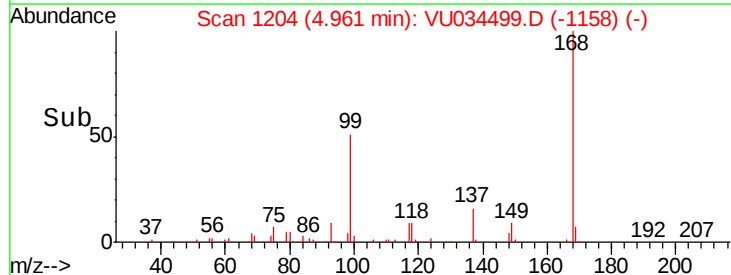
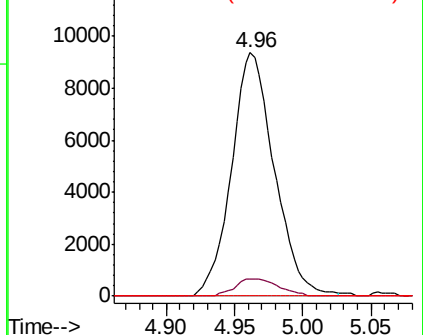


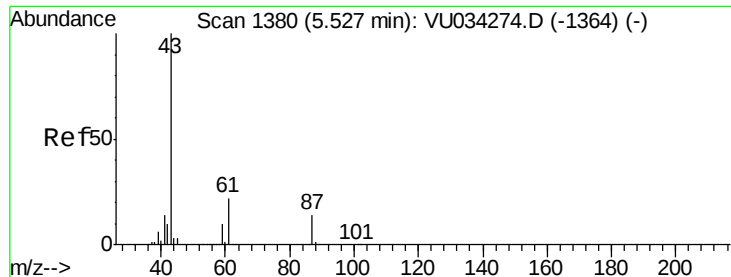
#38
 Carbon Tetrachloride
 Concen: 4.793 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034499.D
 Acq: 12 Sep 2019 00:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.1	77.8	116.6#
121	0.0	25.2	37.8#



Abundance Ion 116.80 (116.50 to 117.50): VU034274.D (-1232) (-)
 Ion 118.80 (118.50 to 119.50): VU034274.D (-1232) (-)
 Ion 120.80 (120.50 to 121.50): VU034274.D (-1232) (-)





#43

Isopropyl Acetate

Concen: 2.677 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034499.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_U

ClientSampleId :

T-11-A4-(4)

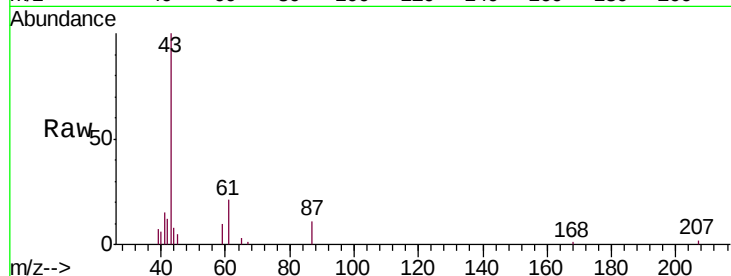
Tgt Ion: 43 Resp: 19687

Ion Ratio Lower Upper

43 100

61 21.2 17.1 25.7

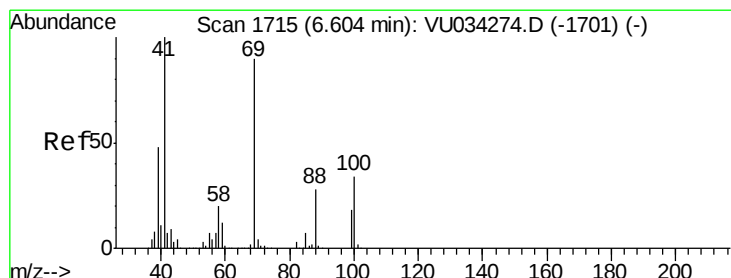
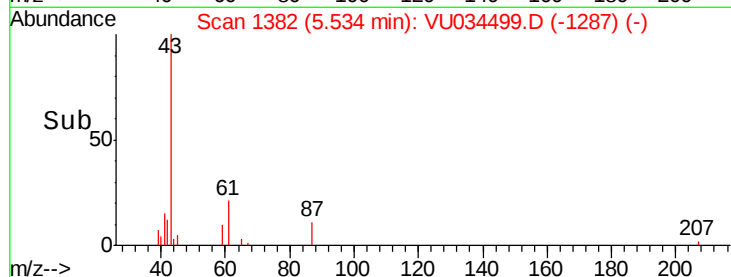
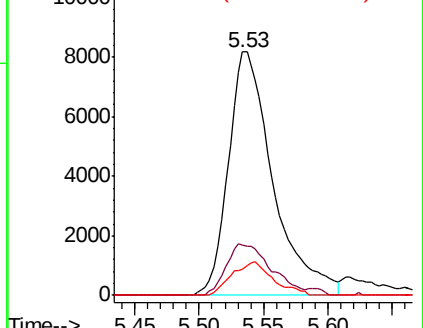
87 12.6 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VU034499.D (-1287) (-)

Ion 61.00 (60.70 to 61.70): VU034499.D (-1287) (-)

Ion 87.00 (86.70 to 87.70): VU034499.D (-1287) (-)



#48

Methyl methacrylate

Concen: 4.081 ug/l

RT: 6.69 min Scan# 1741

Delta R.T. 0.08 min

Lab File: VU034499.D

Acq: 12 Sep 2019 00:53

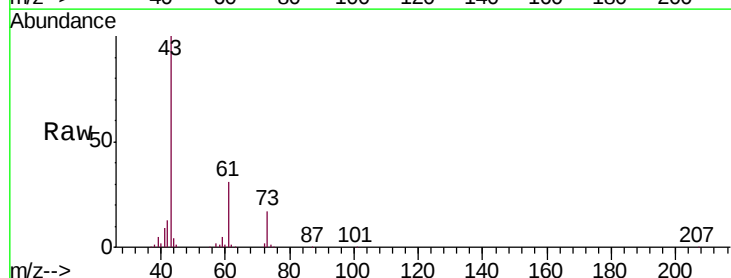
Tgt Ion: 41 Resp: 14254

Ion Ratio Lower Upper

41 100

69 0.0 72.8 109.2#

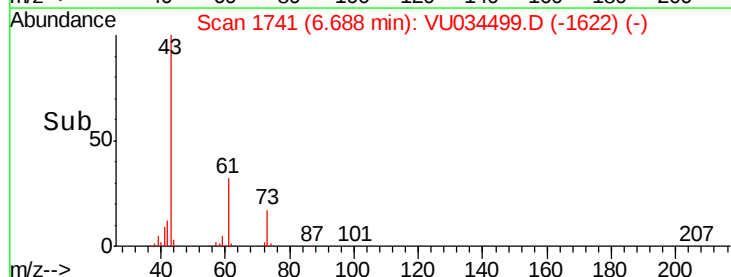
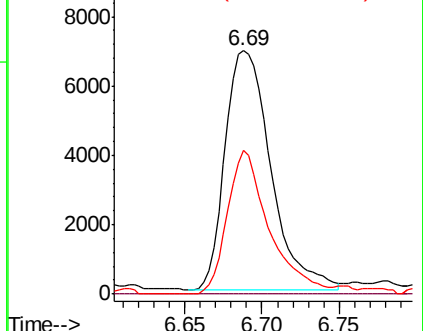
39 54.5 38.6 58.0

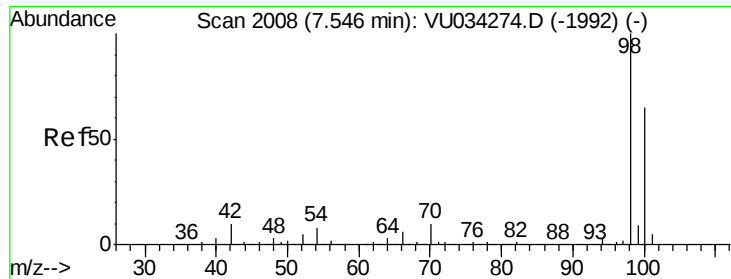


Abundance Ion 41.00 (40.70 to 41.70): VU034499.D (-1622) (-)

Ion 69.00 (68.70 to 69.70): VU034499.D (-1622) (-)

Ion 39.00 (38.70 to 39.70): VU034499.D (-1622) (-)





#50

Toluene-d8

Concen: 52.775 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034499.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_U

ClientSampleId :

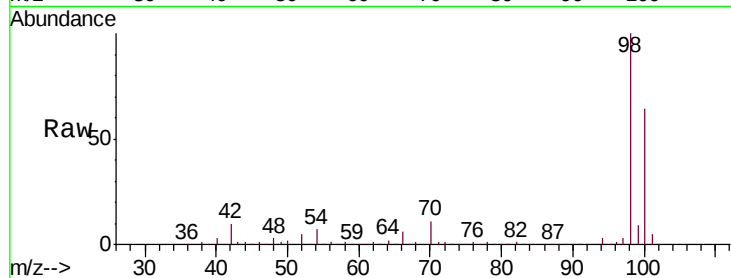
T-11-A4-(4)

Tgt Ion: 98 Resp: 678273

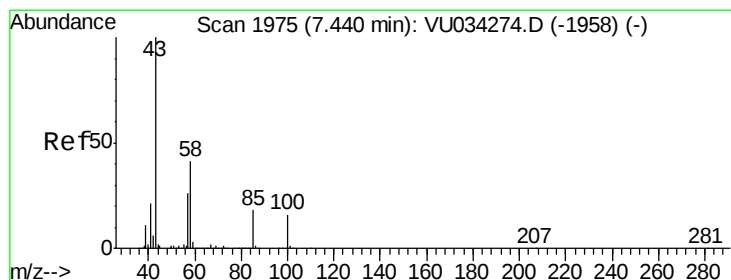
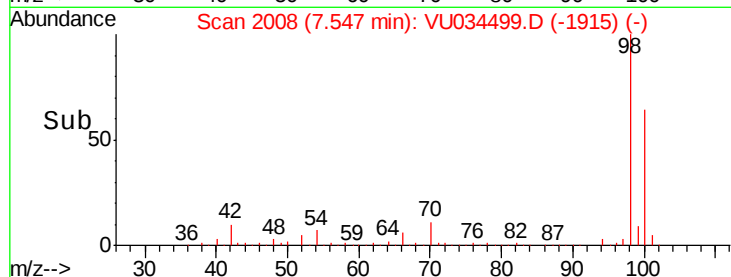
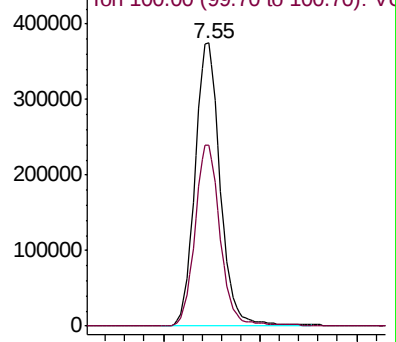
Ion Ratio Lower Upper

98 100

100 63.6 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU034274.D (-1992) (-)



#51

4-Methyl-2-Pentanone

Concen: 8.876 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034499.D

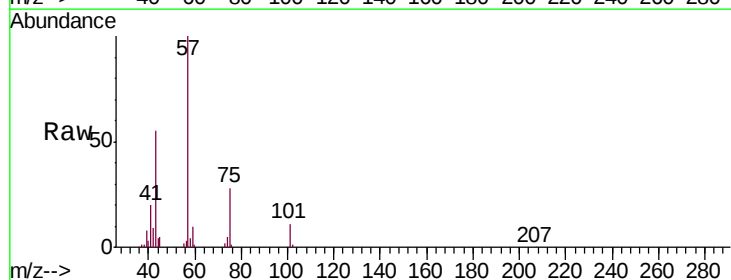
Acq: 12 Sep 2019 00:53

Tgt Ion: 43 Resp: 45180

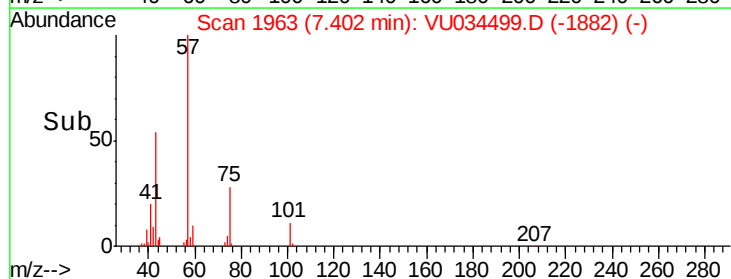
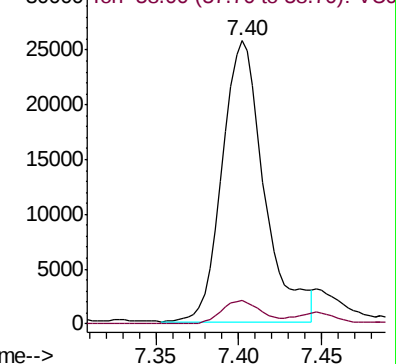
Ion Ratio Lower Upper

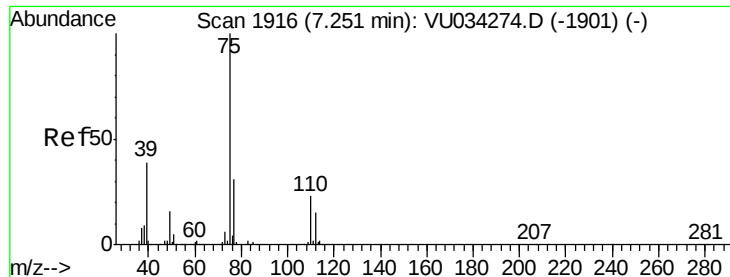
43 100

58 7.8 33.0 49.4#



Abundance Ion 43.00 (42.70 to 43.70): VU034274.D (-1958) (-)



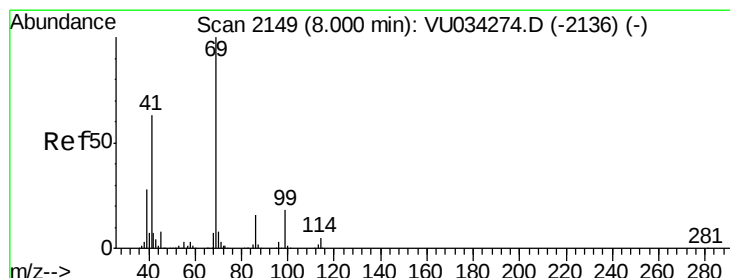
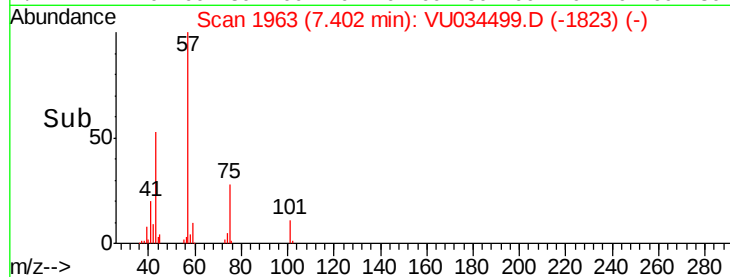
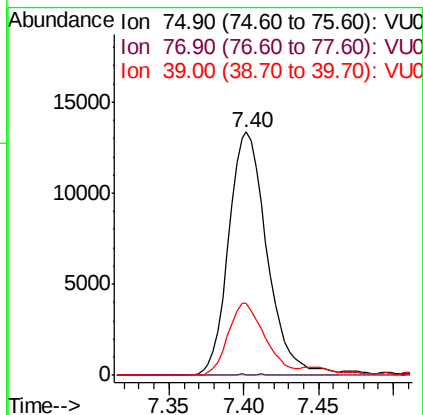
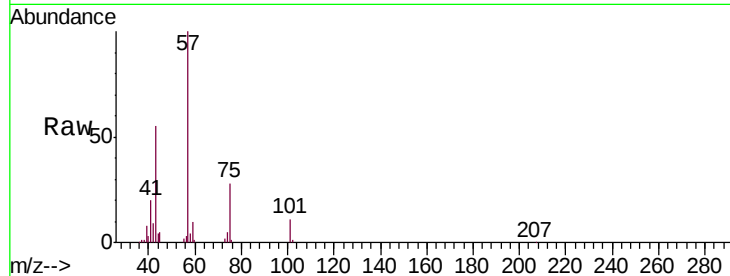


#54

cis-1,3-Dichloropropene
 Concen: 4.324 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034499.D
 Acq: 12 Sep 2019 00:53

Instrument :
 MSVOA_U
 ClientSampleId :
 T-11-A4-(4)

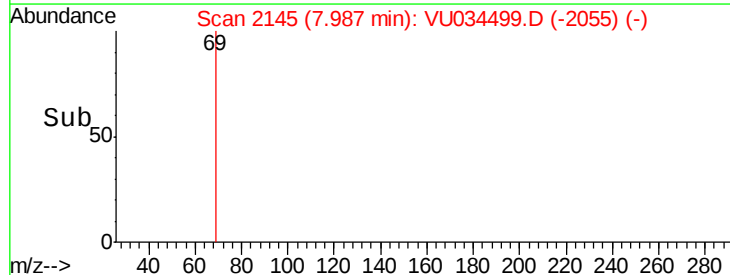
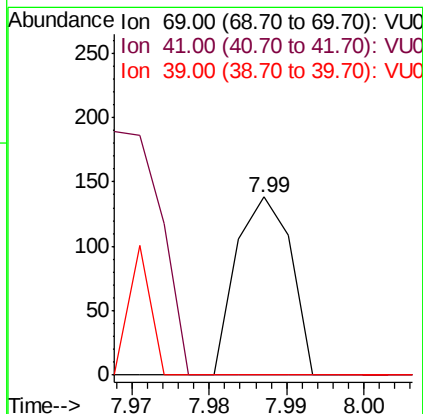
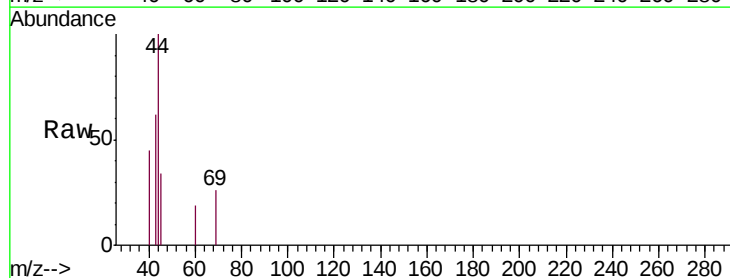
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.1	37.7#
39	29.5	31.2	46.8#

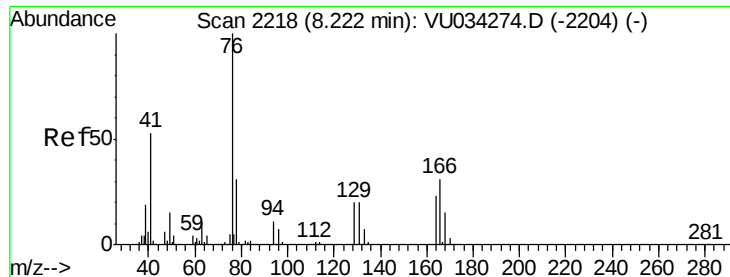


#56

Ethyl methacrylate
 Concen: 3.088 ug/l
 RT: 7.99 min Scan# 2145
 Delta R.T. -0.01 min
 Lab File: VU034499.D
 Acq: 12 Sep 2019 00:53

Tgt Ion	Ratio	Lower	Upper
69	100		
41	0.0	49.5	74.3#
39	0.0	22.5	33.7#





#57

1,3-Dichloropropane

Concen: 0.518 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. 0.17 min

Lab File: VU034499.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_U

ClientSampleId :

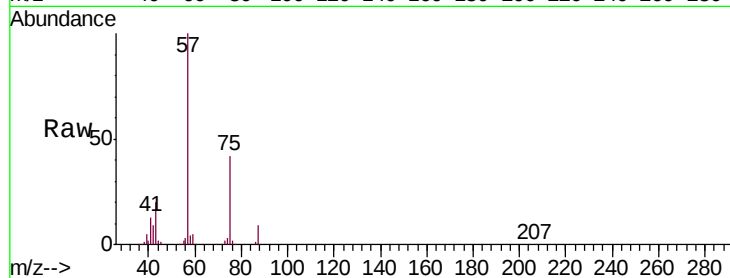
T-11-A4-(4)

Tgt Ion: 76 Resp: 3093

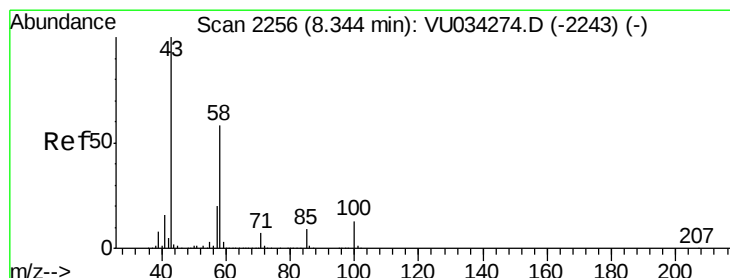
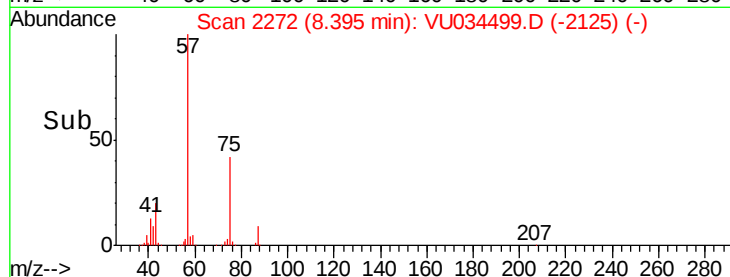
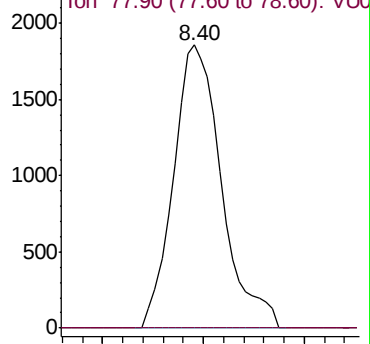
Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VU034499.D (-2125) (-)



#59

2-Hexanone

Concen: 8.981 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. 0.05 min

Lab File: VU034499.D

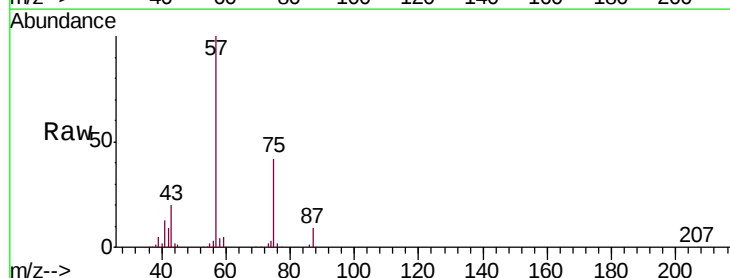
Acq: 12 Sep 2019 00:53

Tgt Ion: 43 Resp: 34152

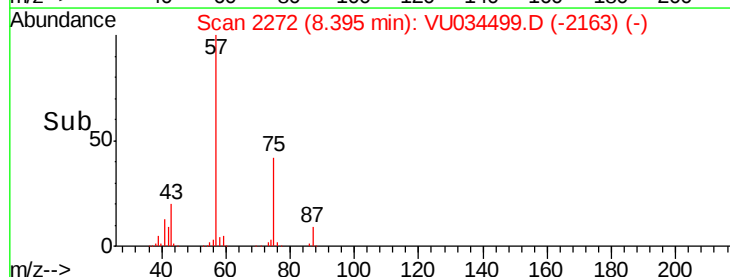
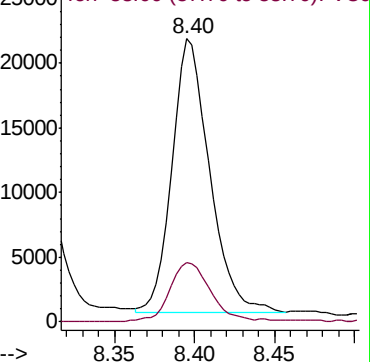
Ion Ratio Lower Upper

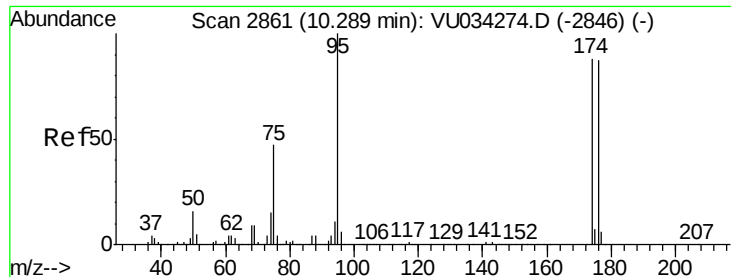
43 100

58 24.2 28.8 86.5#



Abundance Ion 43.00 (42.70 to 43.70): VU034499.D (-2163) (-)

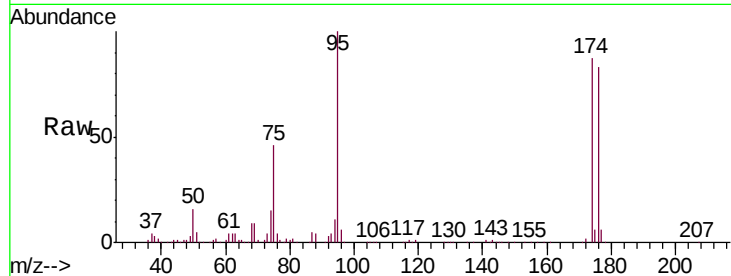




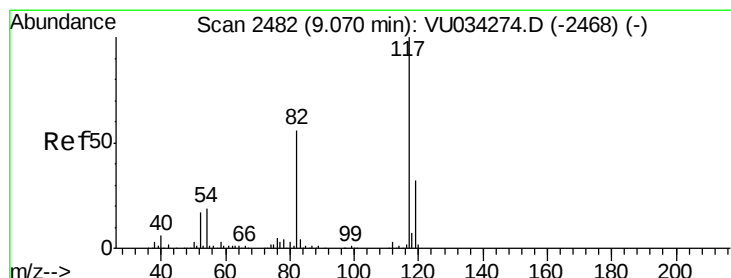
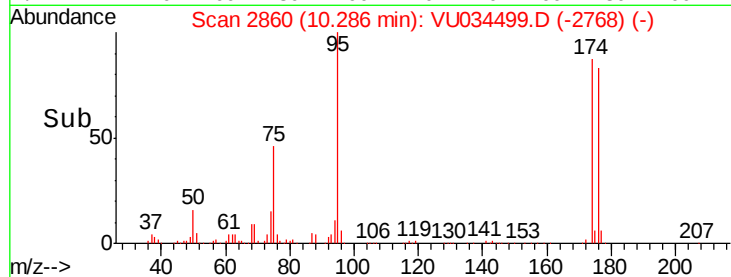
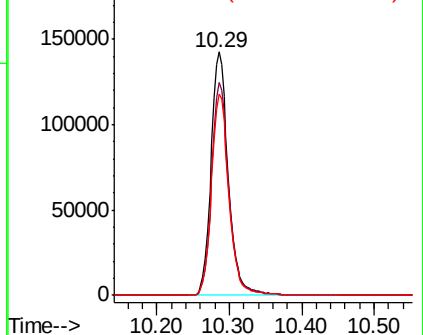
#62
4-Bromofluorobenzene
Concen: 47.198 ug/l
RT: 10.29 min Scan# 2860
Delta R.T. -0.00 min
Lab File: VU034499.D
Acq: 12 Sep 2019 00:53

Instrument :
MSVOA_U
ClientSampled :
T-11-A4-(4)

Tgt Ion: 95 Resp: 234201
Ion Ratio Lower Upper
95 100
174 87.4 0.0 175.2
176 83.3 0.0 168.0

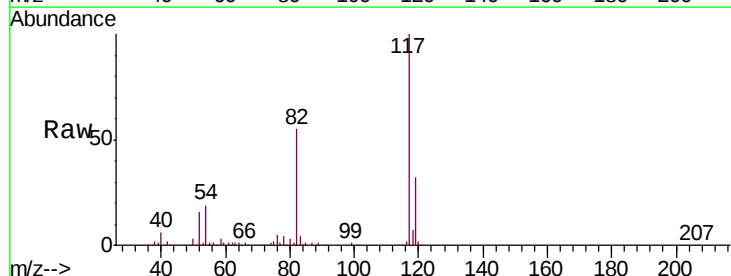


Abundance Ion 94.90 (94.60 to 95.60): VU034499.D (-2768) (-)
Ion 173.80 (173.50 to 174.50): VU034499.D (-2768) (-)
Ion 175.80 (175.50 to 176.50): VU034499.D (-2768) (-)

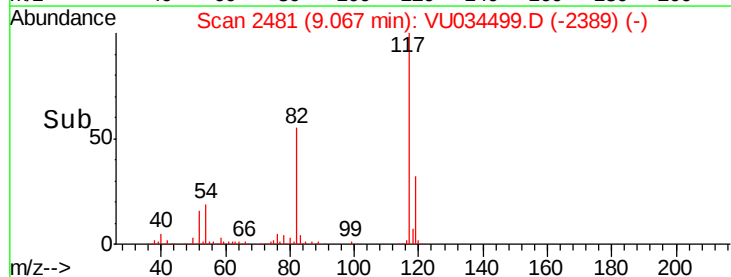
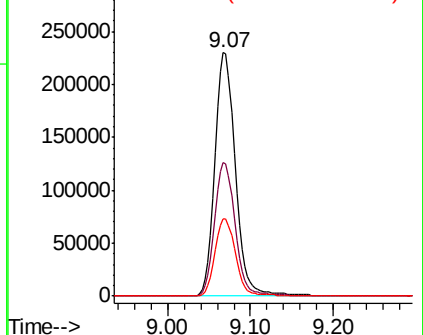


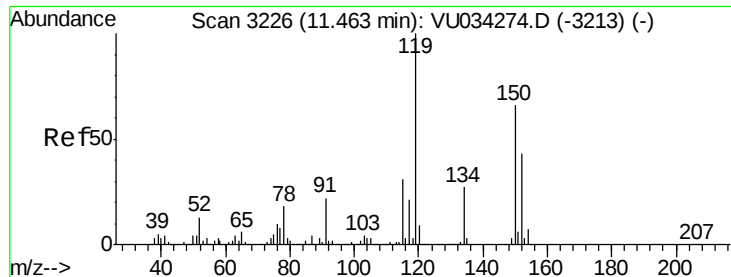
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2481
Delta R.T. -0.00 min
Lab File: VU034499.D
Acq: 12 Sep 2019 00:53

Tgt Ion: 117 Resp: 396634
Ion Ratio Lower Upper
117 100
82 54.9 44.6 67.0
119 31.9 25.9 38.9



Abundance Ion 116.90 (116.60 to 117.60): VU034499.D (-2389) (-)
Ion 82.00 (81.70 to 82.70): VU034499.D (-2389) (-)
Ion 118.90 (118.60 to 119.60): VU034499.D (-2389) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VU034499.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_U

ClientSampleId :

T-11-A4-(4)

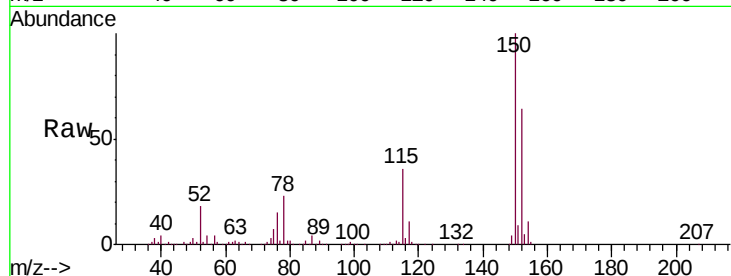
Tgt Ion:152 Resp: 217970

Ion Ratio Lower Upper

152 100

115 55.1 39.1 117.3

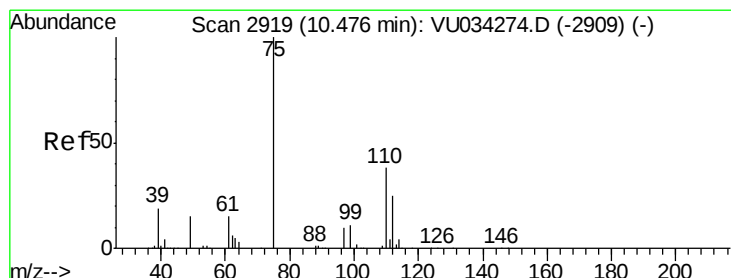
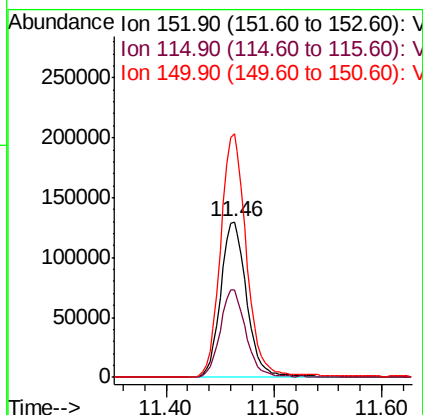
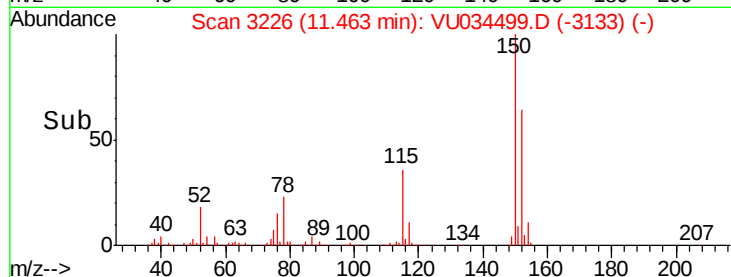
150 156.0 0.0 345.4



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



#76

1,2,3-Trichloropropane

Concen: 22.328 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034499.D

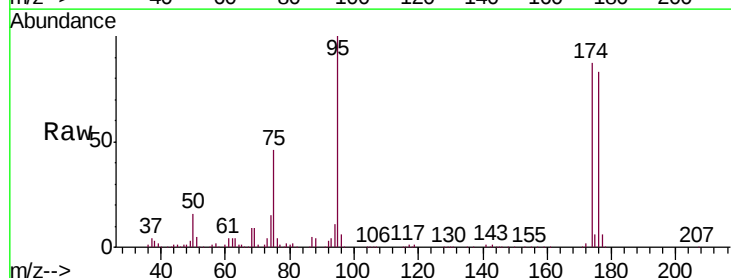
Acq: 12 Sep 2019 00:53

Tgt Ion: 75 Resp: 106234

Ion Ratio Lower Upper

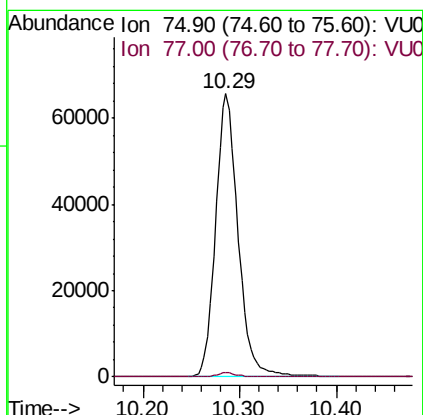
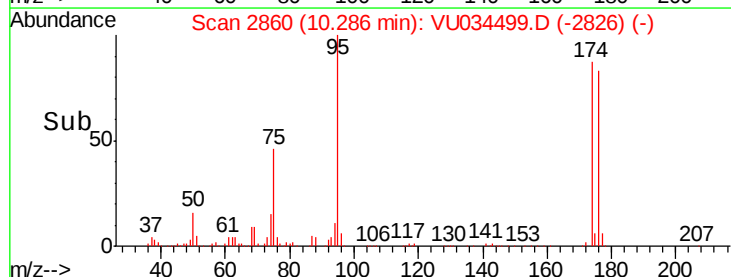
75 100

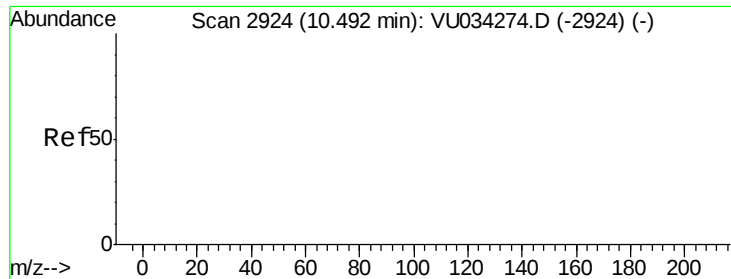
77 1.3 20.8 62.2#



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: 75.087 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034499.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_U

ClientSampleId :

T-11-A4-(4)

Tgt Ion: 75 Resp: 106234

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0

