

Data File : VU034491.D
Acq On : 11 Sep 2019 21:48
Operator : JC/SP
Sample : K4643-36
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T11-C2-(4)

Quant Time: Sep 12 04:45:10 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	223950	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	354483	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	368919	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	197609	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	218525	64.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	128.98%	
35) Dibromofluoromethane	4.86	113	192080	58.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.46%	
50) Toluene-d8	7.55	98	638772	51.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.10%	
62) 4-Bromofluorobenzene	10.29	95	216677	45.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.58%	

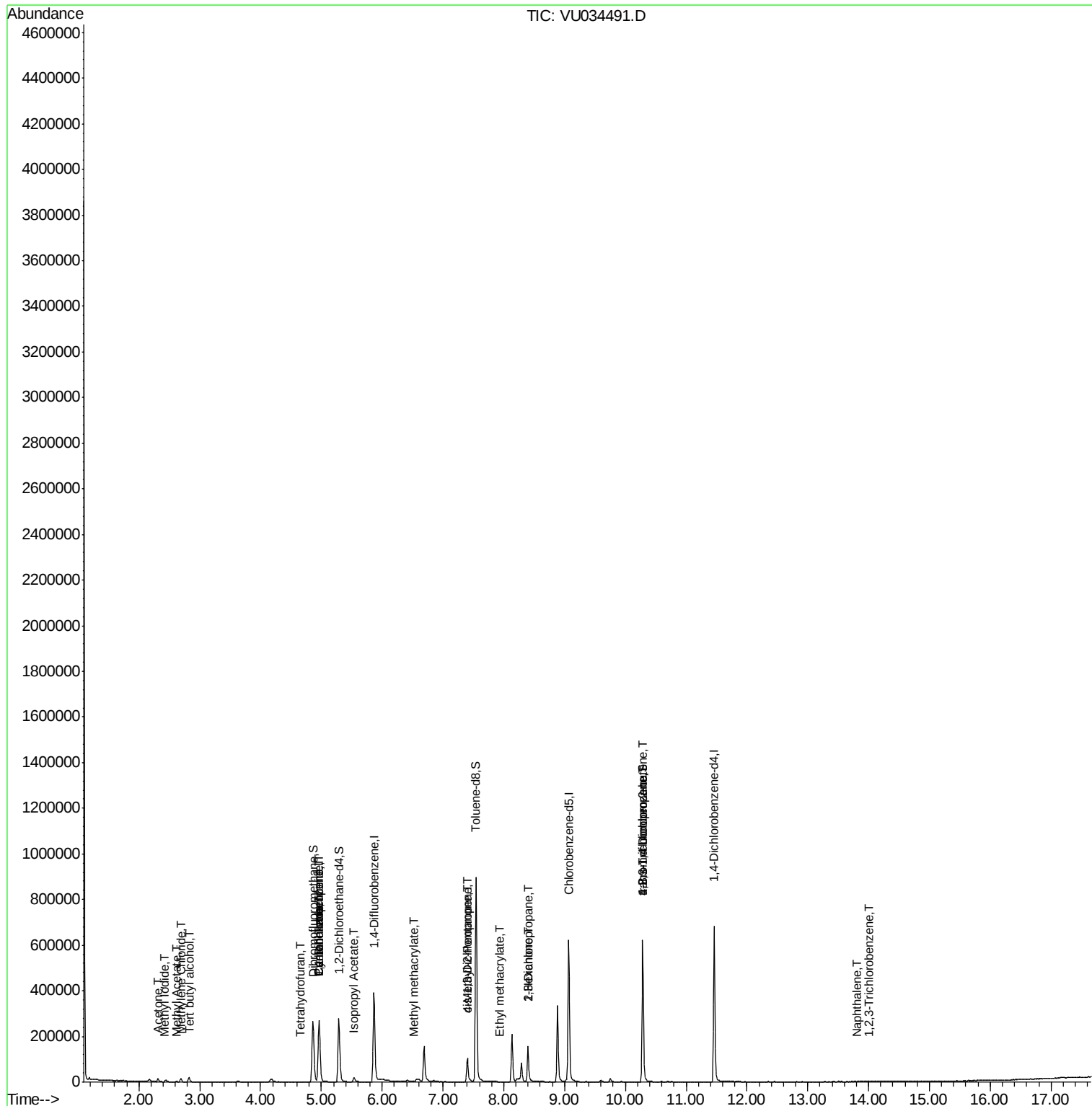
Target Compounds			Qvalue			
5) Bromomethane	1.63	94	507	Below Cal	#	48
6) Chloroethane	1.70	64	162	Below Cal	#	43
10) Methyl Iodide	2.41	142	157	3.908	ug/l #	43
11) Tert butyl alcohol	2.83	59	10588	14.791	ug/l #	73
16) Acetone	2.31	43	15701	8.954	ug/l	97
18) Methyl Acetate	2.62	43	2399	0.562	ug/l #	87
20) Methylene Chloride	2.69	84	6900	2.019	ug/l	89
29) Tetrahydrofuran	4.66	42	312	0.219	ug/l #	49
31) Cyclohexane	4.96	56	3983	1.004	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	15688	4.081	ug/l #	48
38) Carbon Tetrachloride	4.96	117	20480	4.989	ug/l #	16
43) Isopropyl Acetate	5.54	43	23534	3.319	ug/l	98
48) Methyl methacrylate	6.52	41	3658	1.086	ug/l #	17
51) 4-Methyl-2-Pentanone	7.40	43	37393	7.619	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	19822	3.718	ug/l #	65
56) Ethyl methacrylate	7.93	69	71	3.089	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	1762	0.306	ug/l #	43
59) 2-Hexanone	8.40	43	22395	6.108	ug/l #	56
76) 1,2,3-Trichloropropane	10.29	75	102408	23.742	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	102408	79.841	ug/l #	100
95) Naphthalene	13.80	128	126	3.975	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.00	180	20	2.643	ug/l #	12

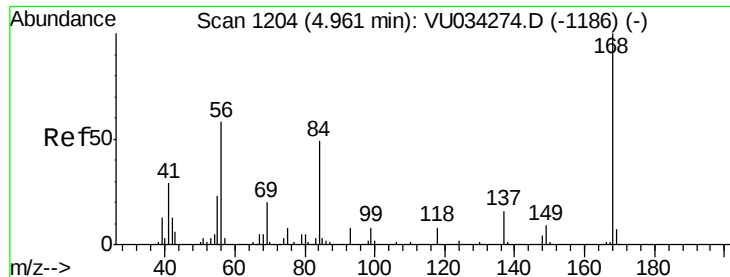
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034491.D

Acq: 11 Sep 2019 21:48

Instrument :

MSVOA_U

ClientSampleId :

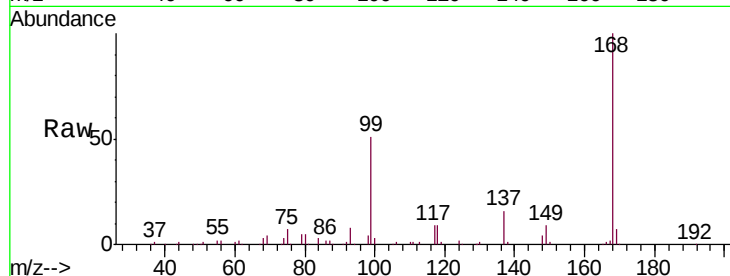
T11-C2-(4)

Tgt Ion:168 Resp: 223950

Ion Ratio Lower Upper

168 100

99 51.0 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034491.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034491.D (-1186) (-)

4.96

100000

80000

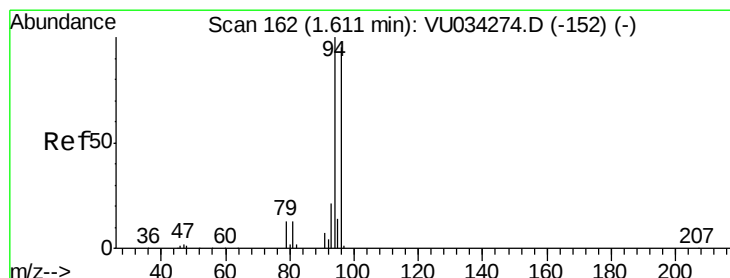
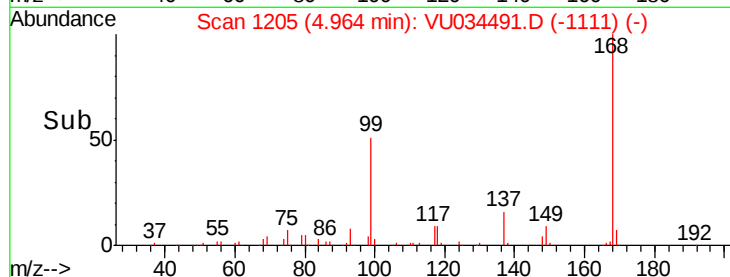
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.02 min

Lab File: VU034491.D

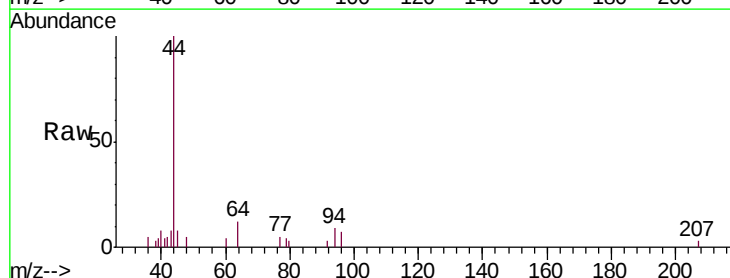
Acq: 11 Sep 2019 21:48

Tgt Ion: 94 Resp: 507

Ion Ratio Lower Upper

94 100

96 44.0 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034491.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034491.D (-152) (-)

1.63

400

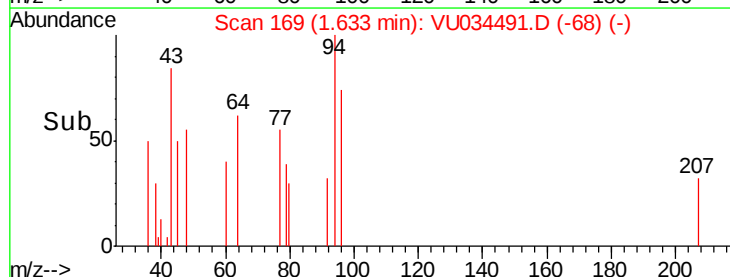
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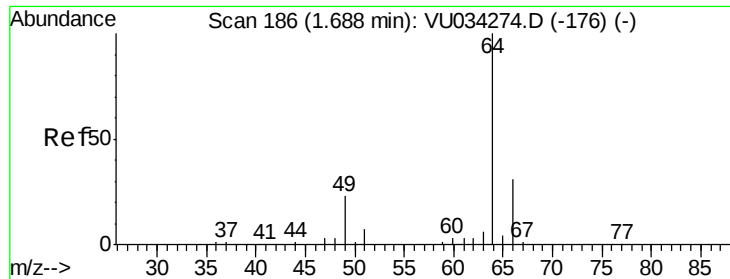
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 191

Delta R.T. 0.02 min

Lab File: VU034491.D

Acq: 11 Sep 2019 21:48

Instrument :

MSVOA_U

ClientSampleId :

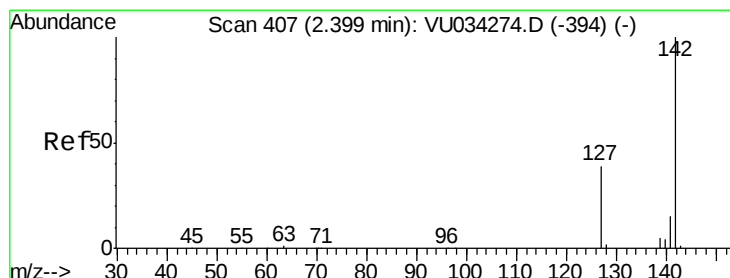
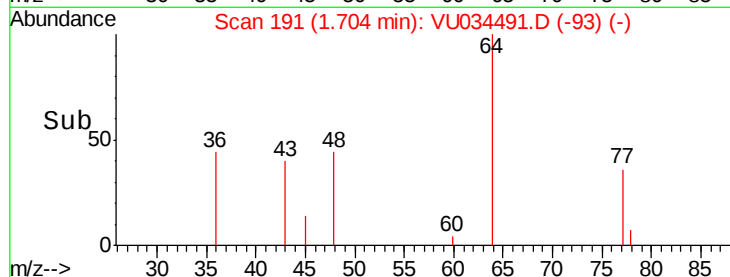
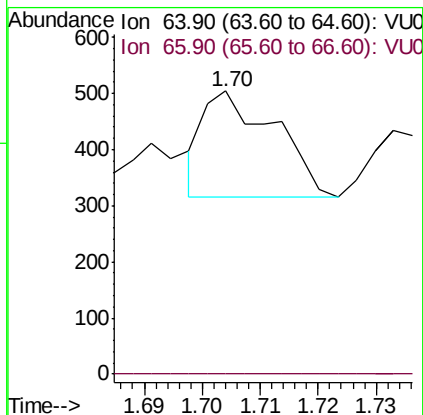
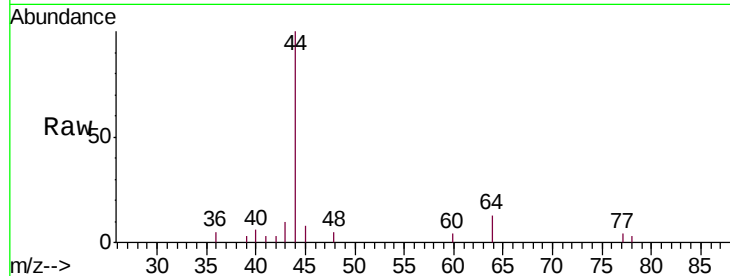
T11-C2-(4)

Tgt Ion: 64 Resp: 162

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



#10

Methyl Iodide

Concen: 3.908 ug/l

RT: 2.41 min Scan# 409

Delta R.T. 0.01 min

Lab File: VU034491.D

Acq: 11 Sep 2019 21:48

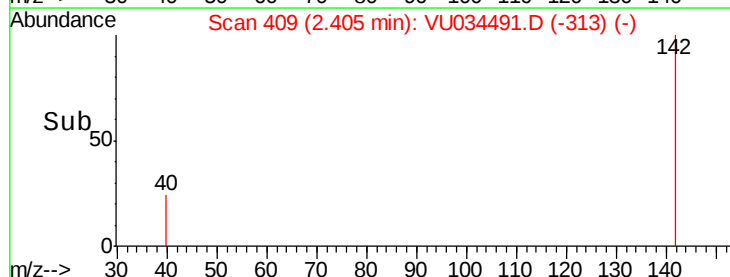
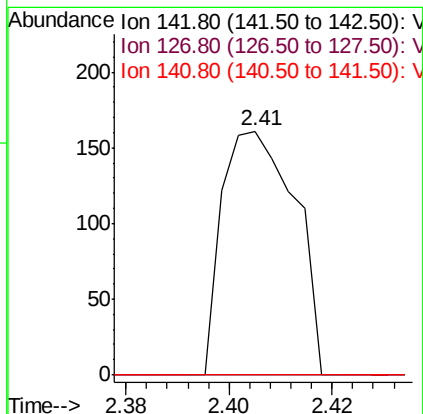
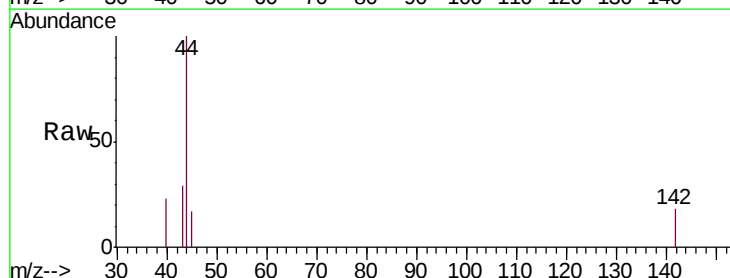
Tgt Ion: 142 Resp: 157

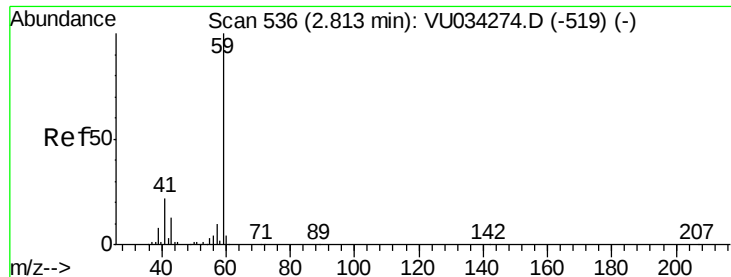
Ion Ratio Lower Upper

142 100

127 0.0 32.1 48.1#

141 0.0 11.5 17.3#

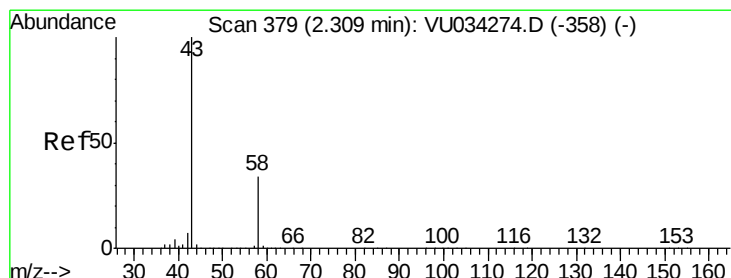
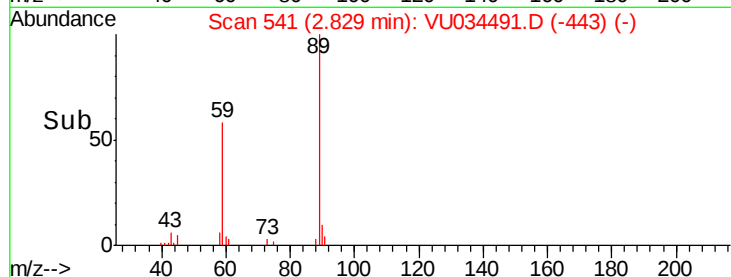
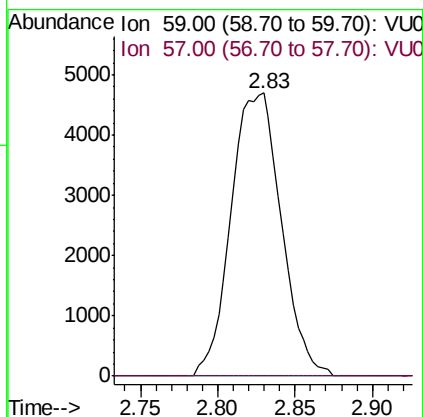
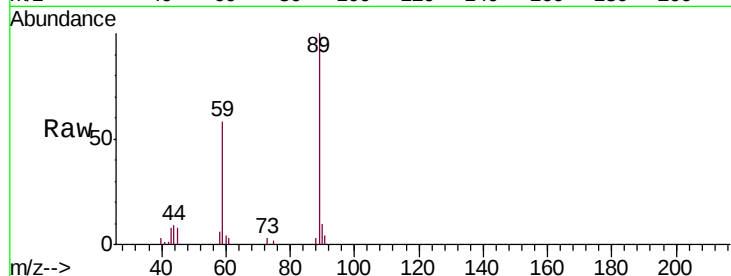




#11
Tert butyl alcohol
Concen: 14.791 ug/l
RT: 2.83 min Scan# 541
Delta R.T. 0.02 min
Lab File: VU034491.D
Acq: 11 Sep 2019 21:48

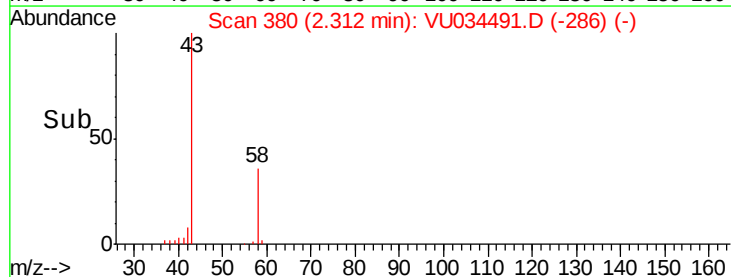
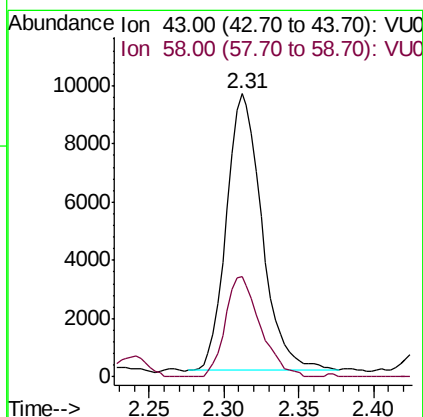
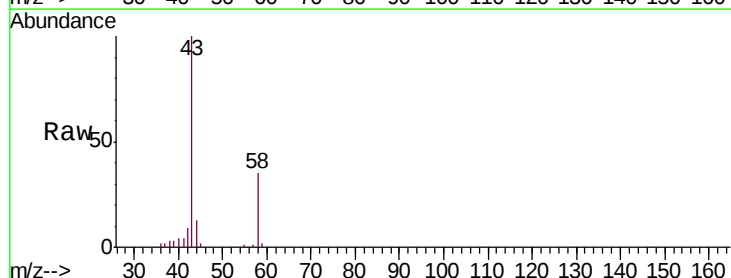
Instrument :
MSVOA_U
ClientSampleId :
T11-C2-(4)

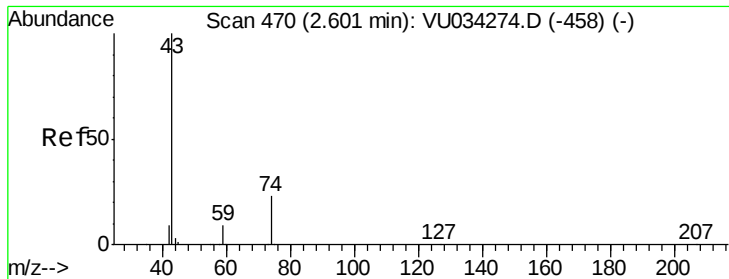
Tgt Ion: 59 Resp: 10588
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#16
Acetone
Concen: 8.954 ug/l
RT: 2.31 min Scan# 380
Delta R.T. 0.00 min
Lab File: VU034491.D
Acq: 11 Sep 2019 21:48

Tgt Ion: 43 Resp: 15701
Ion Ratio Lower Upper
43 100
58 36.1 27.6 41.4

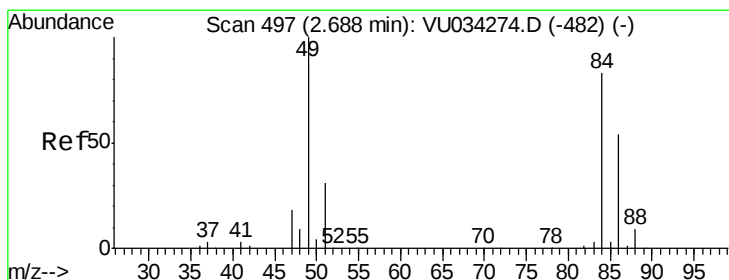
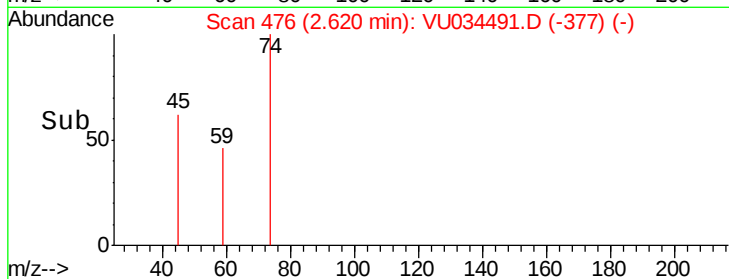
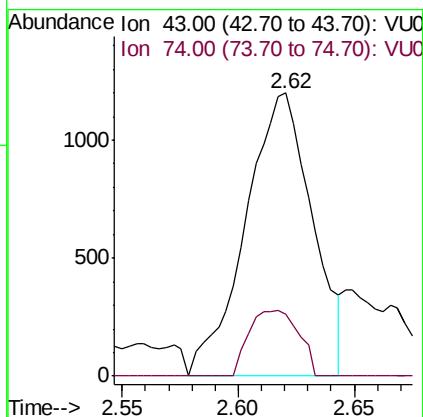
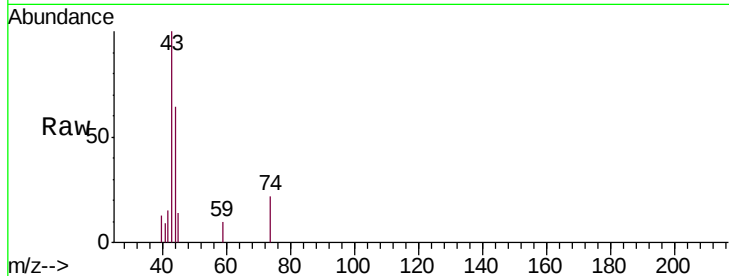




#18
Methyl Acetate
Concen: 0.562 ug/l
RT: 2.62 min Scan# 476
Delta R.T. 0.02 min
Lab File: VU034491.D
Acq: 11 Sep 2019 21:48

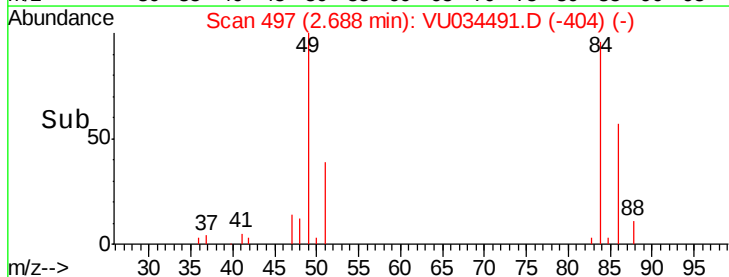
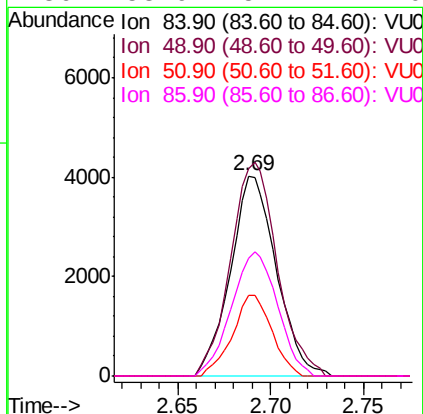
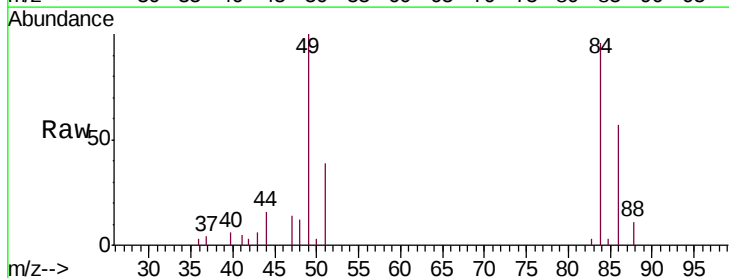
Instrument :
MSVOA_U
ClientSampleId :
T11-C2-(4)

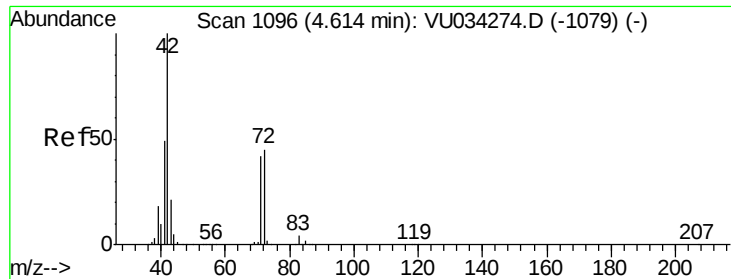
Tgt Ion: 43 Resp: 2399
Ion Ratio Lower Upper
43 100
74 17.2 18.9 28.3#



#20
Methylene Chloride
Concen: 2.019 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034491.D
Acq: 11 Sep 2019 21:48

Tgt Ion: 84 Resp: 6900
Ion Ratio Lower Upper
84 100
49 103.8 96.0 144.0
51 40.5 30.0 45.0
86 58.9 51.4 77.0





#29

Tetrahydrofuran

Concen: 0.219 ug/l

RT: 4.66 min Scan# 1109

Delta R.T. 0.04 min

Lab File: VU034491.D

Acq: 11 Sep 2019 21:48

Instrument :

MSVOA_U

ClientSampleId :

T11-C2-(4)

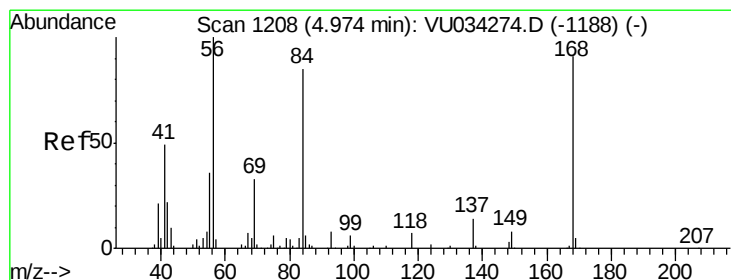
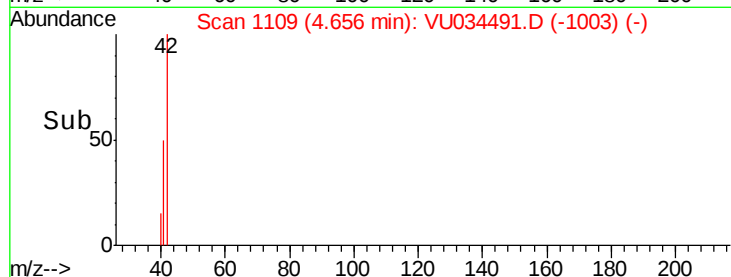
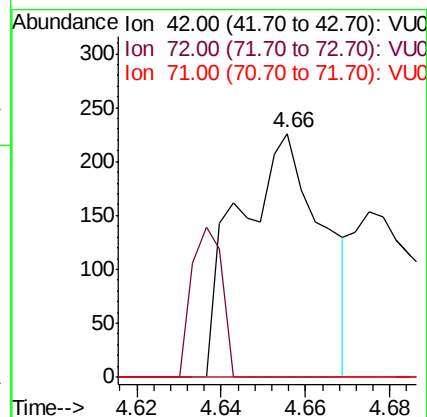
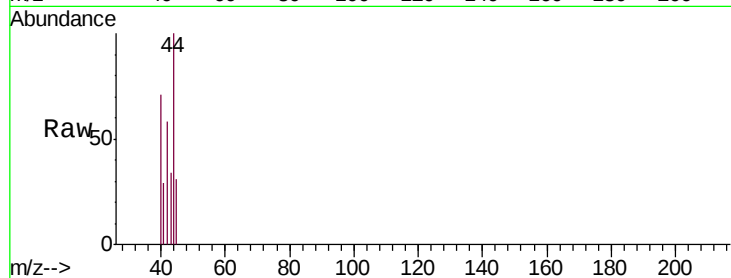
Tgt Ion: 42 Resp: 312

Ion Ratio Lower Upper

42 100

72 22.4 36.6 54.8#

71 0.0 34.3 51.5#



#31

Cyclohexane

Concen: 1.004 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034491.D

Acq: 11 Sep 2019 21:48

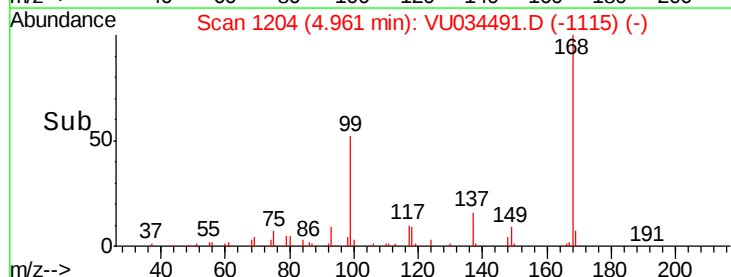
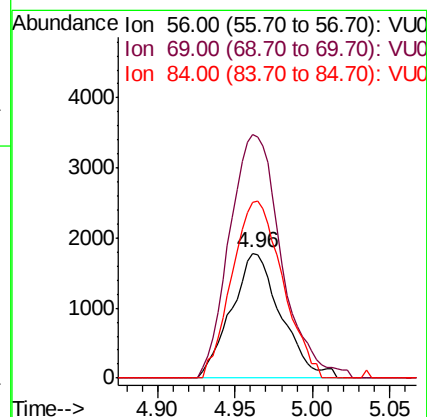
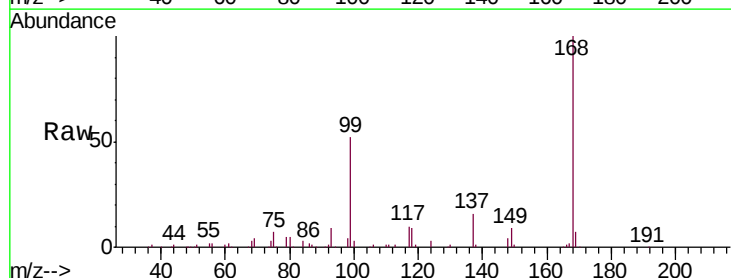
Tgt Ion: 56 Resp: 3983

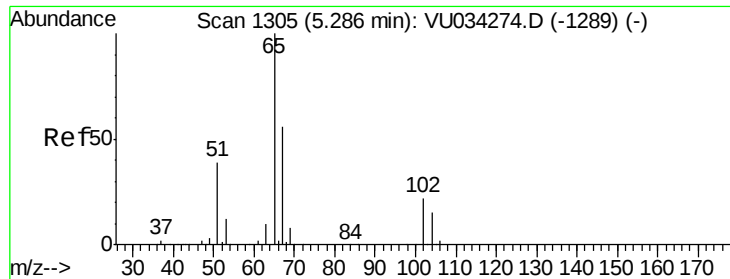
Ion Ratio Lower Upper

56 100

69 195.0 26.7 40.1#

84 140.8 68.2 102.4#

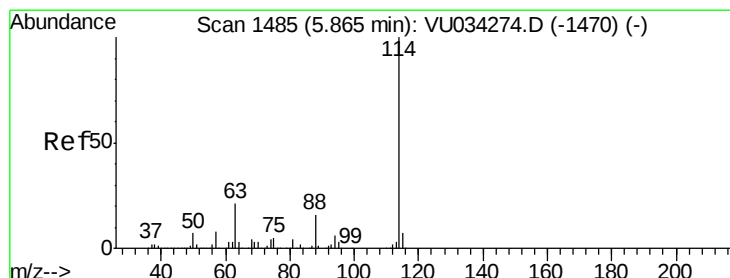
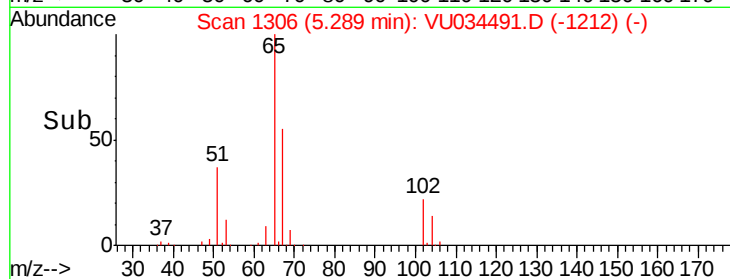
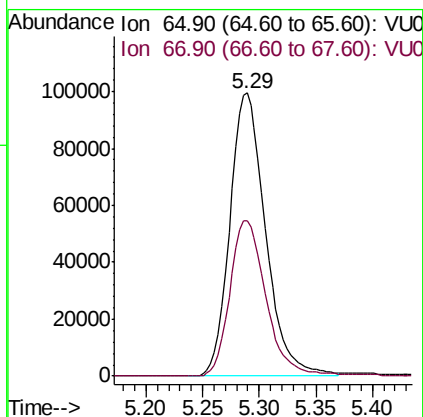
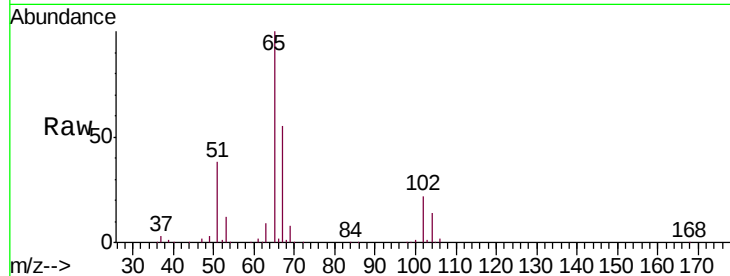




#33
 1,2-Dichloroethane-d4
 Concen: 64.491 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034491.D
 Acq: 11 Sep 2019 21:48

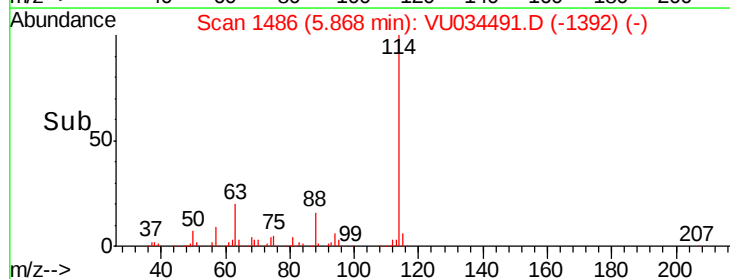
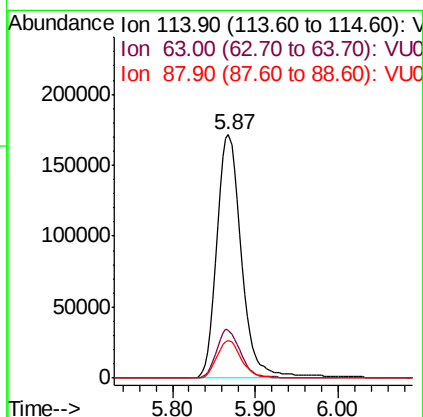
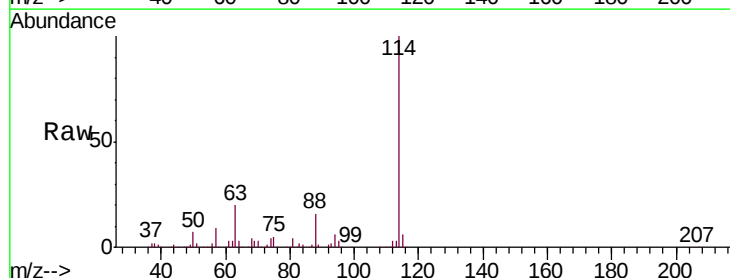
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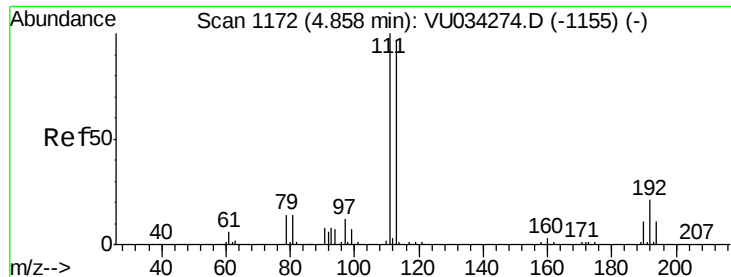
Tgt Ion: 65 Resp: 218525
 Ion Ratio Lower Upper
 65 100
 67 55.7 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034491.D
 Acq: 11 Sep 2019 21:48

Tgt Ion: 114 Resp: 354483
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 42.4
 88 15.5 0.0 32.4

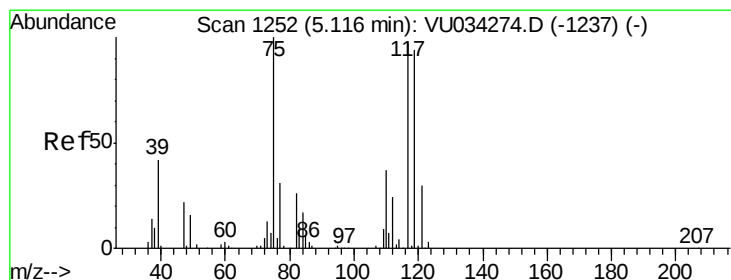
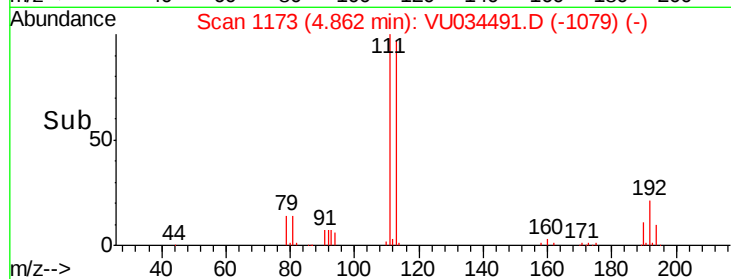
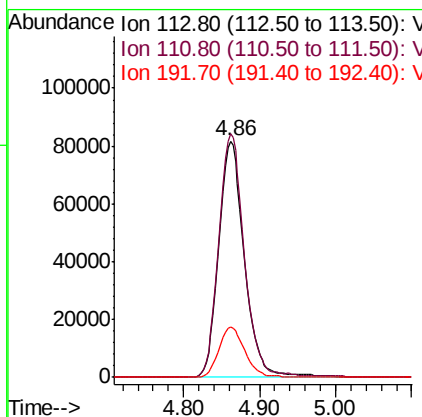
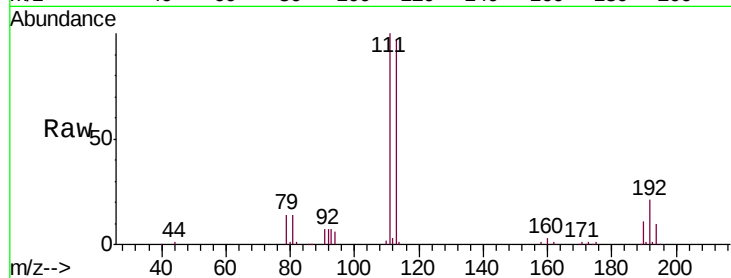




#35
 Dibromofluoromethane
 Concen: 58.233 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034491.D
 Acq: 11 Sep 2019 21:48

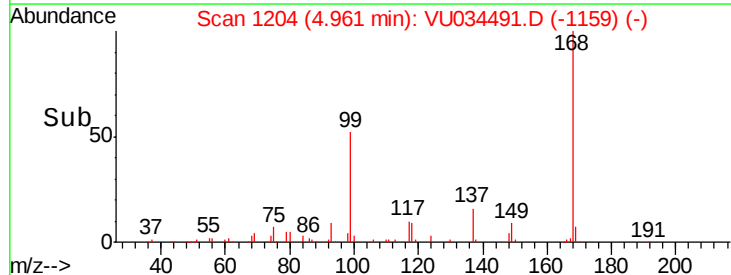
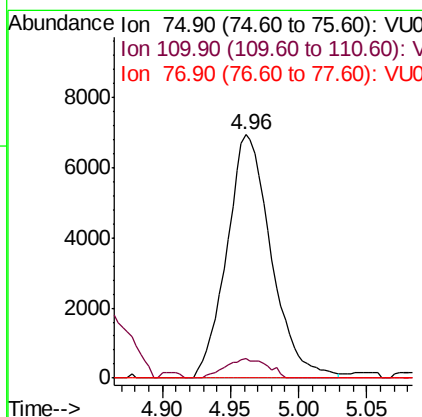
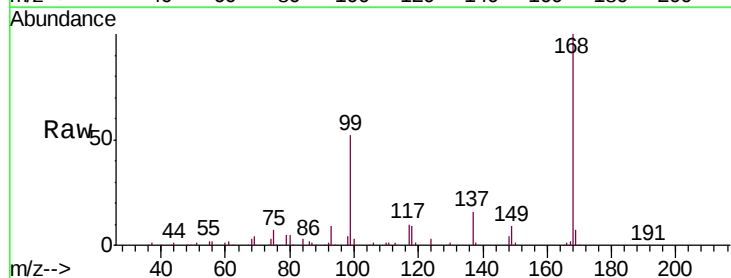
Instrument :
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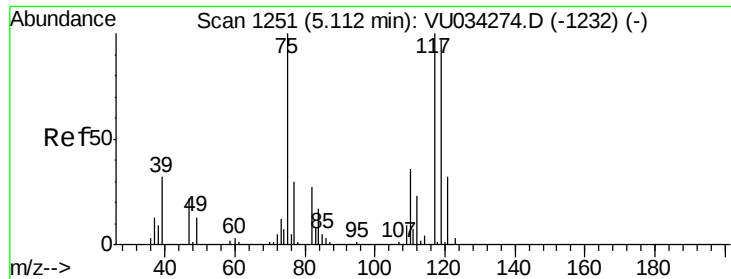
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.5	122.3
192	21.5	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 4.081 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034491.D
 Acq: 11 Sep 2019 21:48

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.6	18.3	54.9#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 4.989 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034491.D

Acq: 11 Sep 2019 21:48

Instrument :

MSVOA_U

ClientSampleId :

T11-C2-(4)

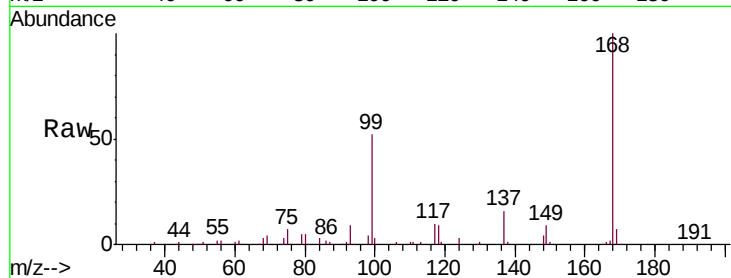
Tgt Ion:117 Resp: 20480

Ion Ratio Lower Upper

117 100

119 5.6 77.8 116.6#

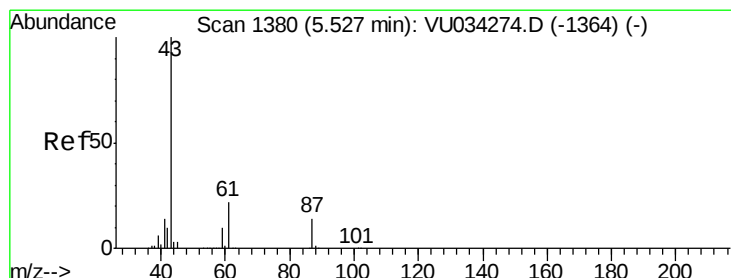
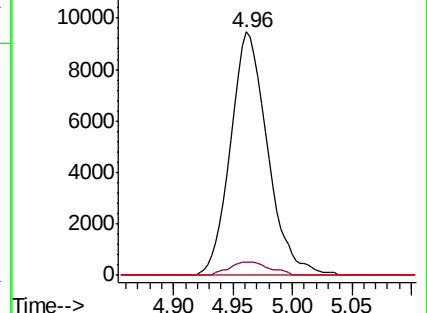
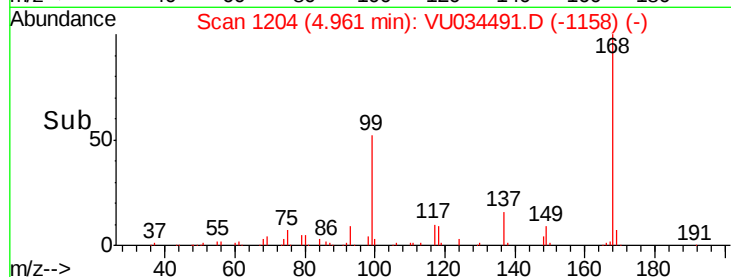
121 0.0 25.2 37.8#



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: 3.319 ug/l

RT: 5.54 min Scan# 1383

Delta R.T. 0.01 min

Lab File: VU034491.D

Acq: 11 Sep 2019 21:48

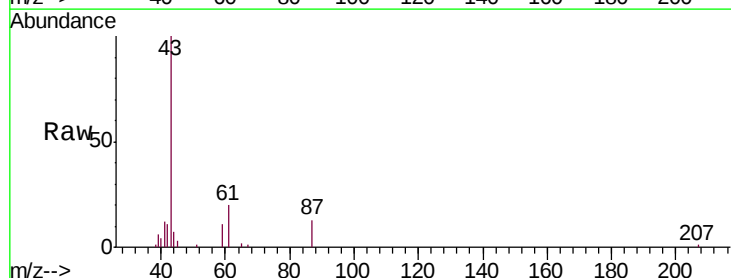
Tgt Ion: 43 Resp: 23534

Ion Ratio Lower Upper

43 100

61 20.9 17.1 25.7

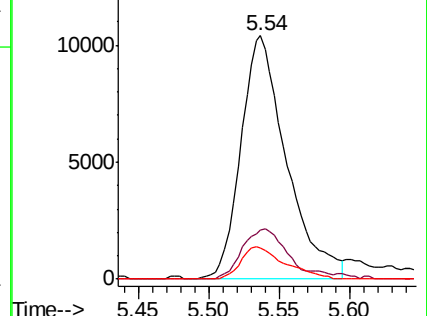
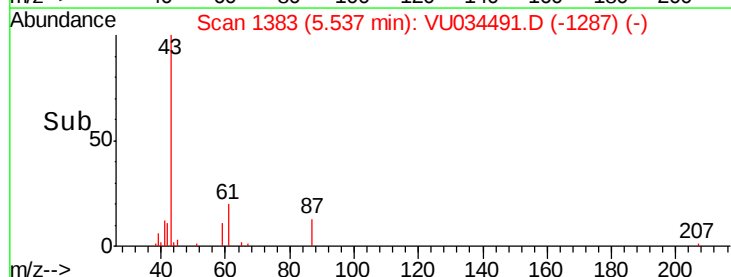
87 12.9 11.1 16.7

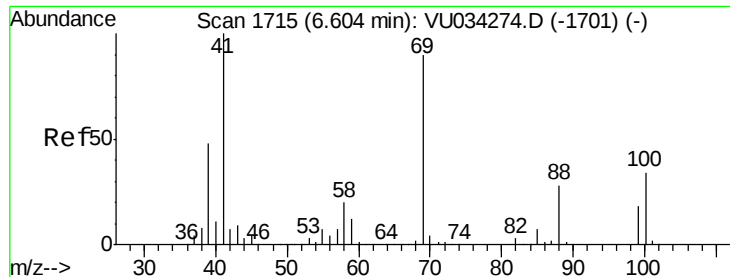


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#48

Methyl methacrylate

Concen: 1.086 ug/l

RT: 6.52 min Scan# 1690

Delta R.T. -0.08 min

Lab File: VU034491.D

Acq: 11 Sep 2019 21:48

Instrument :

MSVOA_U

ClientSampleId :

T11-C2-(4)

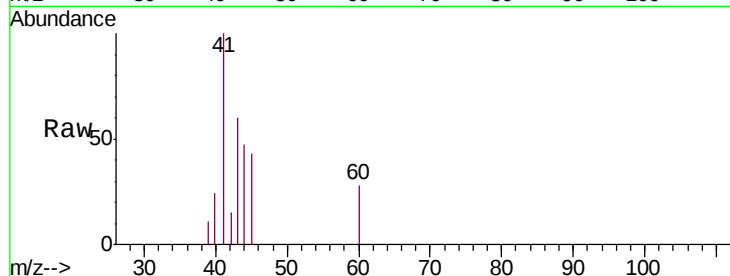
Tgt Ion: 41 Resp: 3658

Ion Ratio Lower Upper

41 100

69 0.0 72.8 109.2#

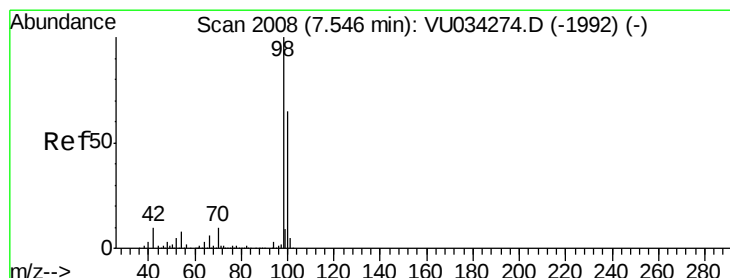
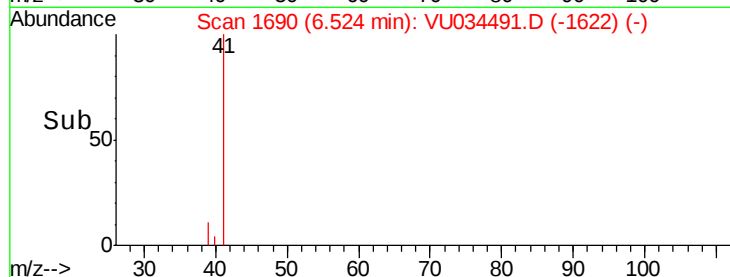
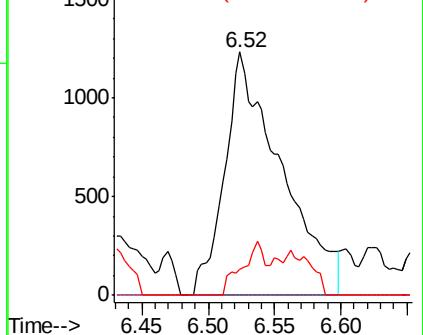
39 9.3 38.6 58.0#



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: 51.545 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. -0.00 min

Lab File: VU034491.D

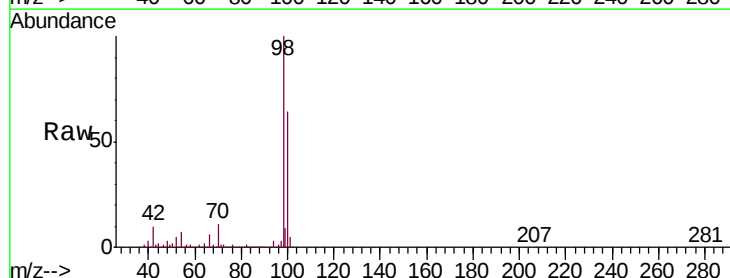
Acq: 11 Sep 2019 21:48

Tgt Ion: 98 Resp: 638772

Ion Ratio Lower Upper

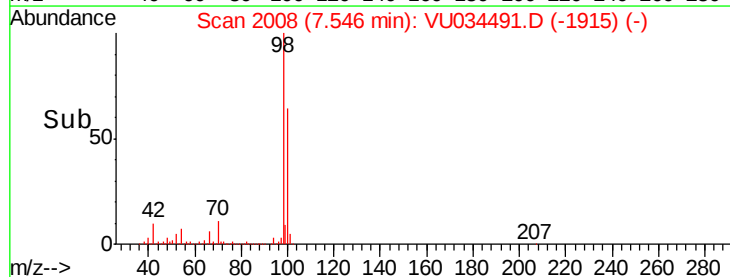
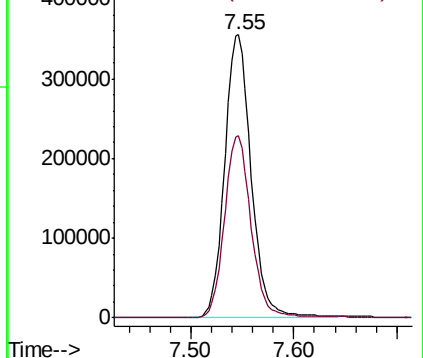
98 100

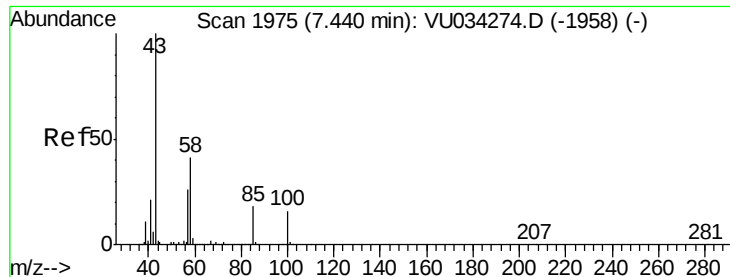
100 64.7 51.7 77.5



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: 7.619 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034491.D

Acq: 11 Sep 2019 21:48

Instrument :

MSVOA_U

ClientSampleId :

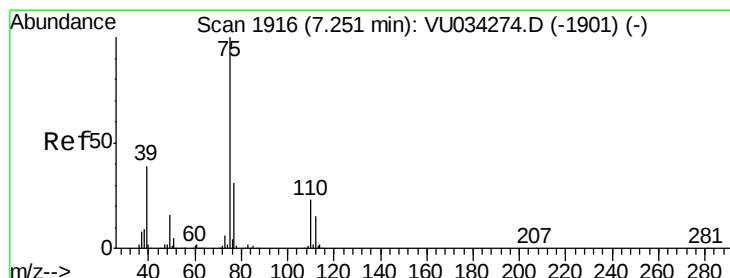
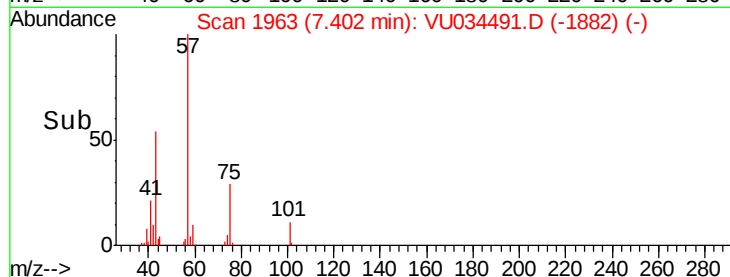
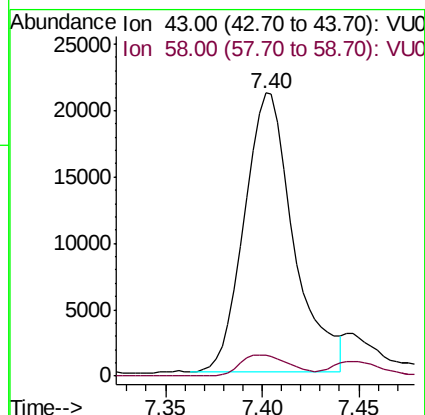
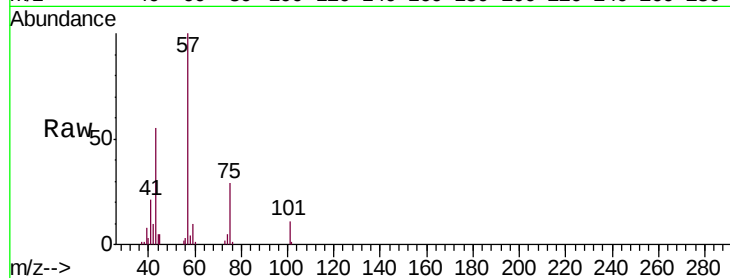
T11-C2-(4)

Tgt Ion: 43 Resp: 37393

Ion Ratio Lower Upper

43 100

58 7.7 33.0 49.4#



#54

cis-1,3-Dichloropropene

Concen: 3.718 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034491.D

Acq: 11 Sep 2019 21:48

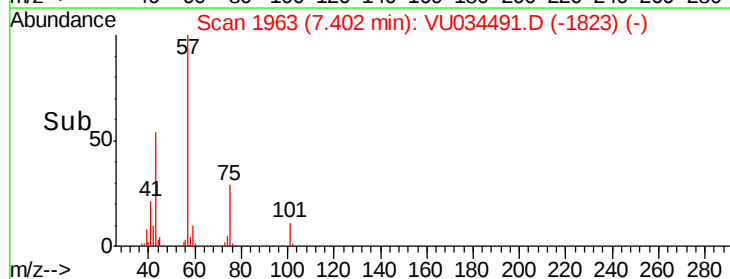
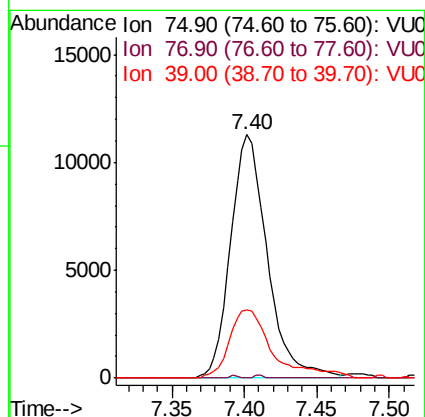
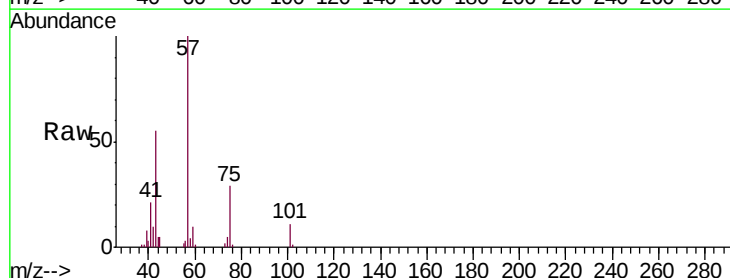
Tgt Ion: 75 Resp: 19822

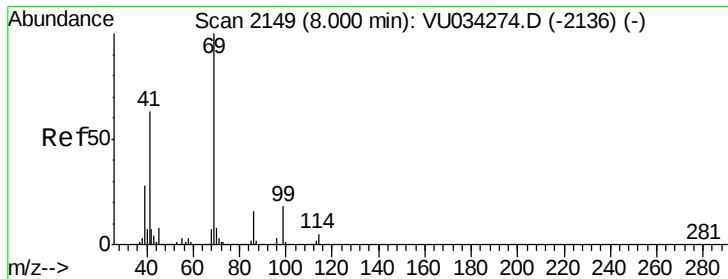
Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

39 28.2 31.2 46.8#





#56

Ethyl methacrylate

Concen: 3.089 ug/l

RT: 7.93 min Scan# 2128

Delta R.T. -0.07 min

Lab File: VU034491.D

Acq: 11 Sep 2019 21:48

Instrument :

MSVOA_U

ClientSampleId :

T11-C2-(4)

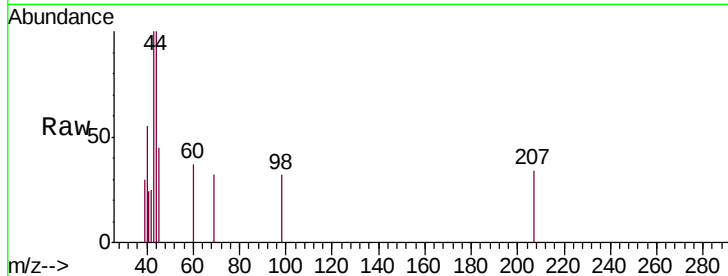
Tgt Ion: 69 Resp: 71

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): VU034491.D (-2128) (-)

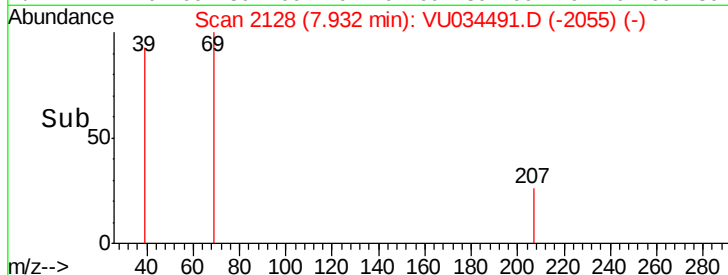
Ion 41.00 (40.70 to 41.70): VU034491.D (-2128) (-)

Ion 39.00 (38.70 to 39.70): VU034491.D (-2128) (-)

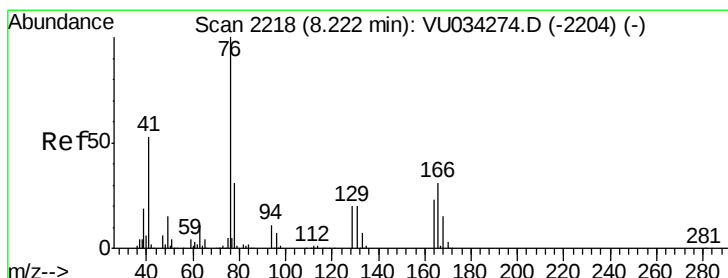
7.93

7.94

7.95



Time-->



#57

1,3-Dichloropropane

Concen: 0.306 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034491.D

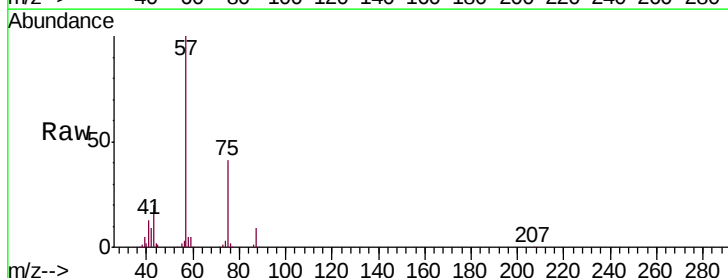
Acq: 11 Sep 2019 21:48

Tgt Ion: 76 Resp: 1762

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#

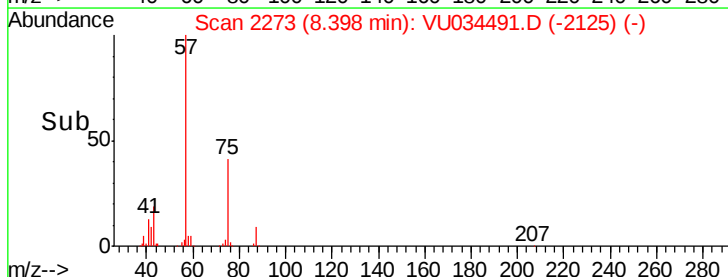


Abundance Ion 75.90 (75.60 to 76.60): VU034491.D (-2273) (-)

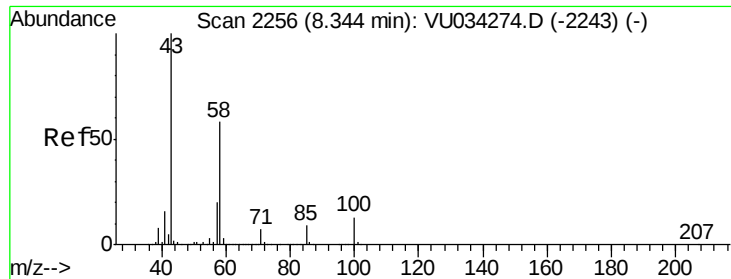
Ion 77.90 (77.60 to 78.60): VU034491.D (-2273) (-)

8.40

8.45



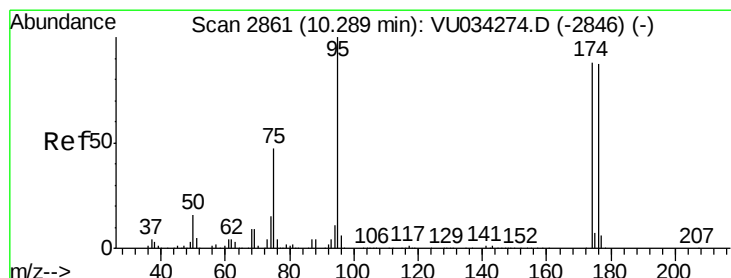
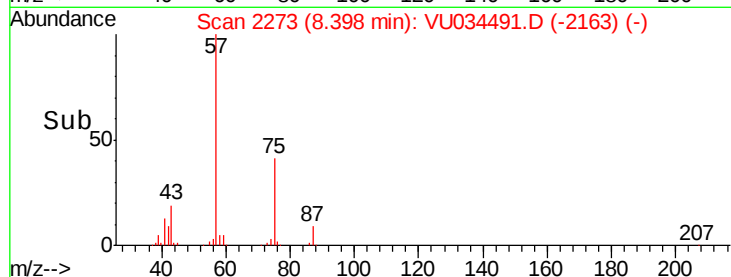
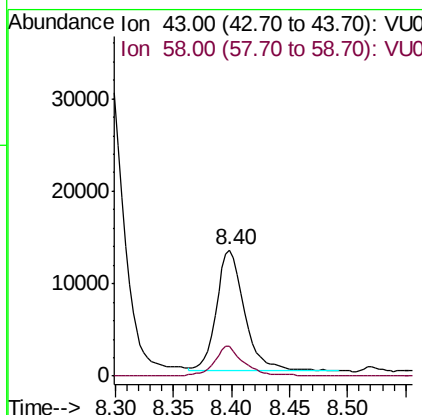
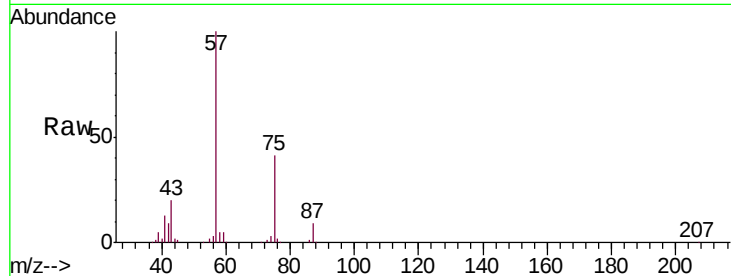
Time-->



#59
2-Hexanone
Concen: 6.108 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034491.D
Acq: 11 Sep 2019 21:48

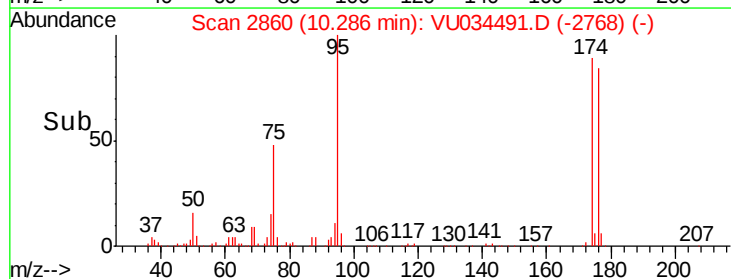
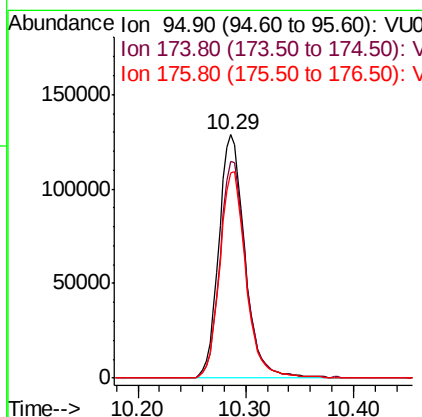
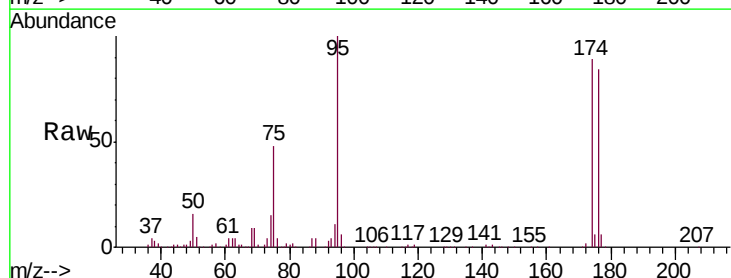
Instrument :
MSVOA_U
ClientSampleId :
T11-C2-(4)

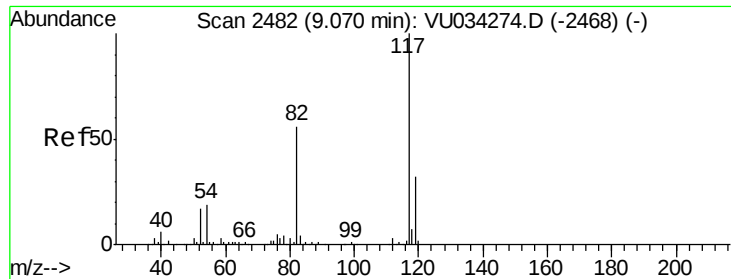
Tgt Ion: 43 Resp: 22395
Ion Ratio Lower Upper
43 100
58 25.1 28.8 86.5#



#62
4-Bromofluorobenzene
Concen: 45.286 ug/l
RT: 10.29 min Scan# 2860
Delta R.T. -0.00 min
Lab File: VU034491.D
Acq: 11 Sep 2019 21:48

Tgt Ion: 95 Resp: 216677
Ion Ratio Lower Upper
95 100
174 89.3 0.0 175.2
176 85.0 0.0 168.0

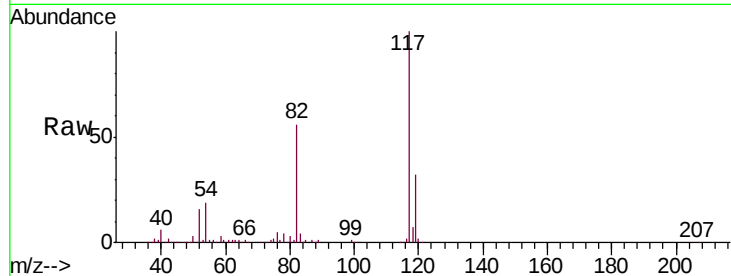




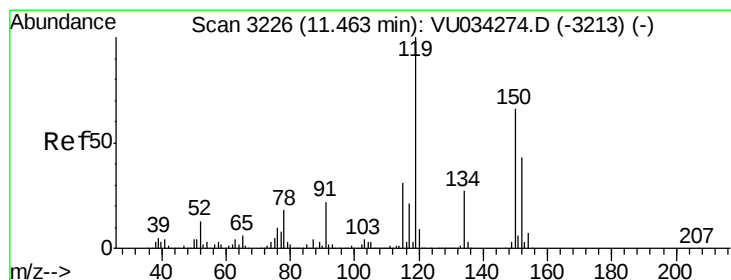
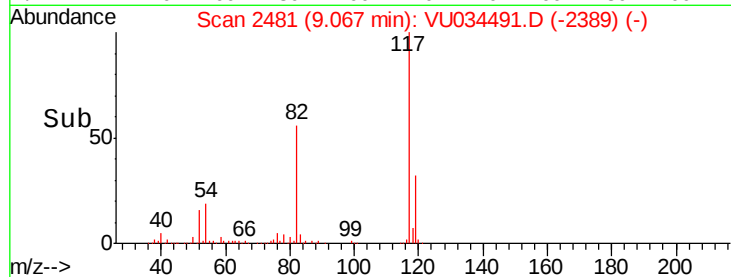
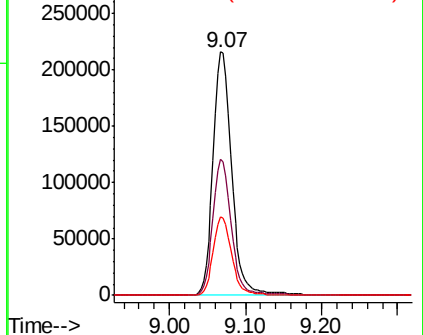
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2481
Delta R.T. -0.00 min
Lab File: VU034491.D
Acq: 11 Sep 2019 21:48

Instrument :
MSVOA_U
ClientSampleId :
T11-C2-(4)

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.0	44.6	67.0
119	32.0	25.9	38.9

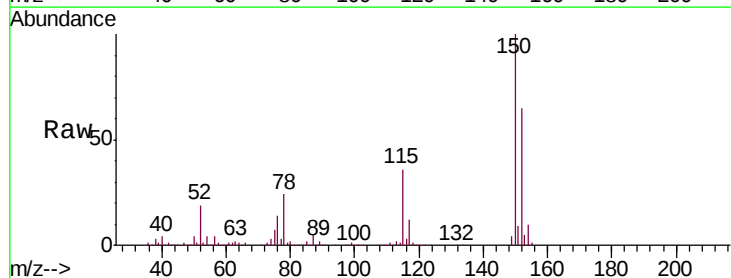


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

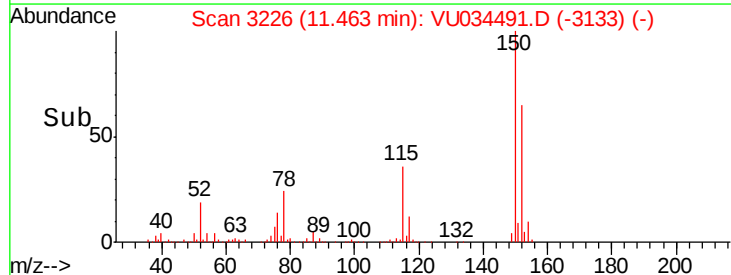
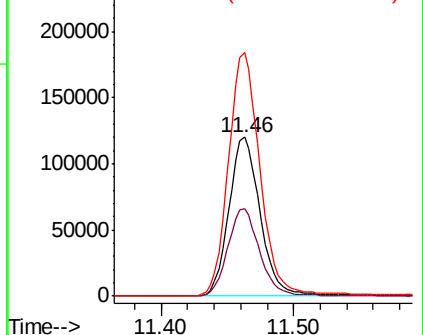


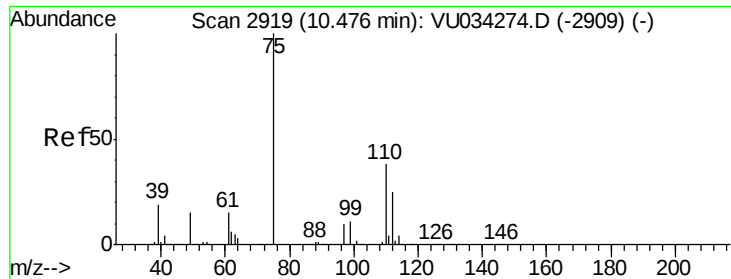
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034491.D
Acq: 11 Sep 2019 21:48

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.6	39.1	117.3
150	155.8	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: 23.742 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034491.D

Acq: 11 Sep 2019 21:48

Instrument :

MSVOA_U

ClientSampleId :

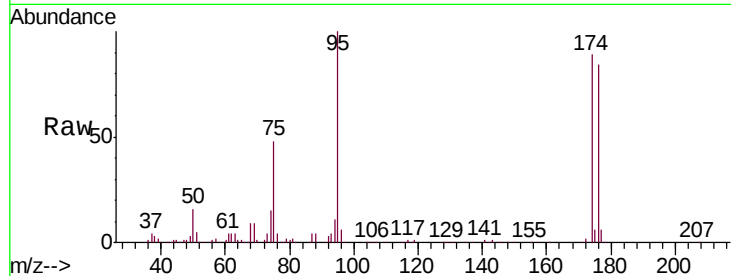
T11-C2-(4)

Tgt Ion: 75 Resp: 102408

Ion Ratio Lower Upper

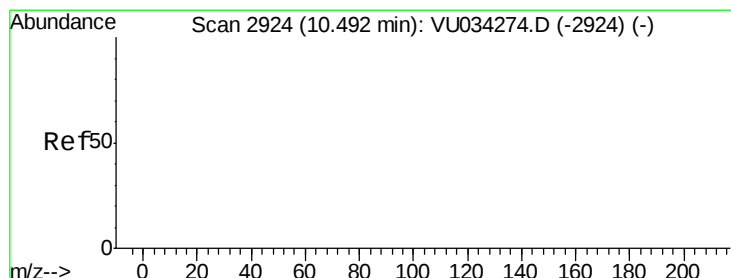
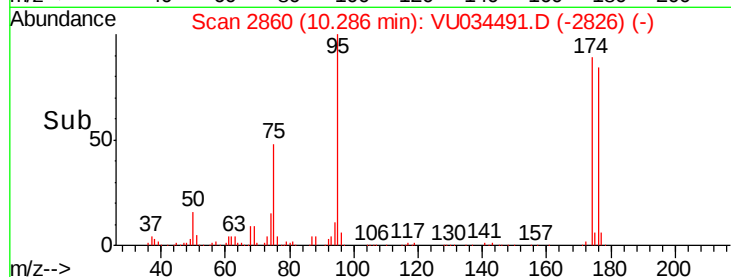
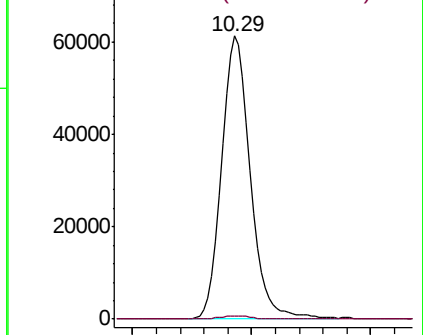
75 100

77 1.1 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: 79.841 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034491.D

Acq: 11 Sep 2019 21:48

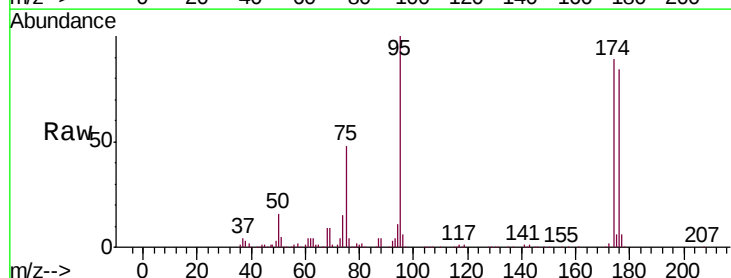
Tgt Ion: 75 Resp: 102408

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

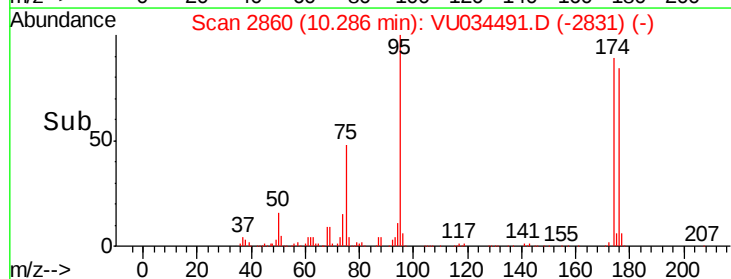
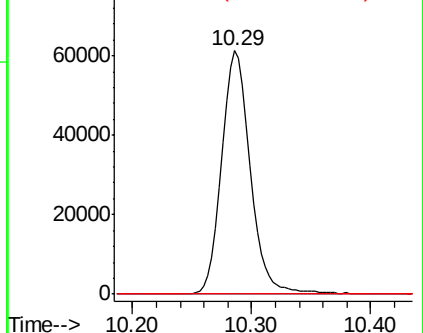
89 0.0 0.0 0.0#

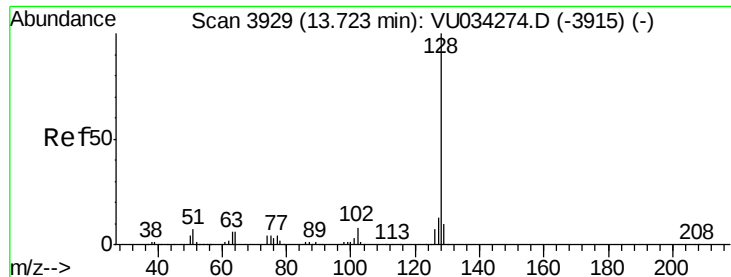


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#95

Naphthalene

Concen: 3.975 ug/l

RT: 13.80 min Scan# 3954

Delta R.T. 0.08 min

Lab File: VU034491.D

Acq: 11 Sep 2019 21:48

Instrument :

MSVOA_U

ClientSampleId :

T11-C2-(4)

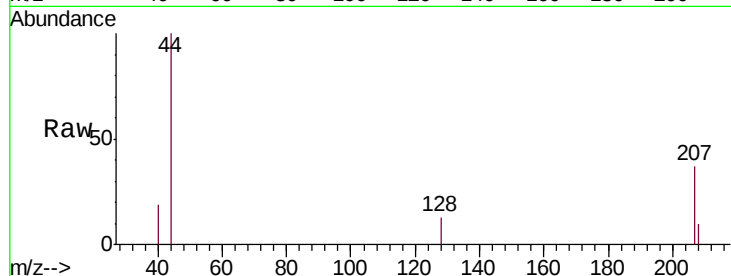
Tgt Ion:128 Resp: 126

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

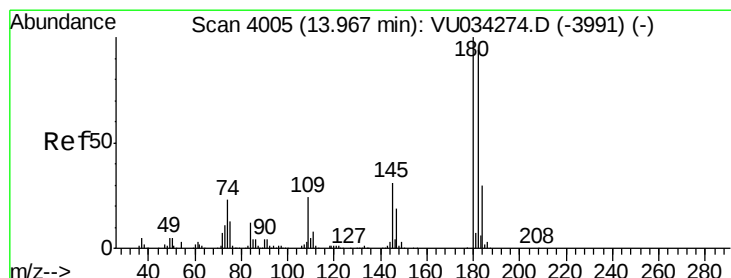
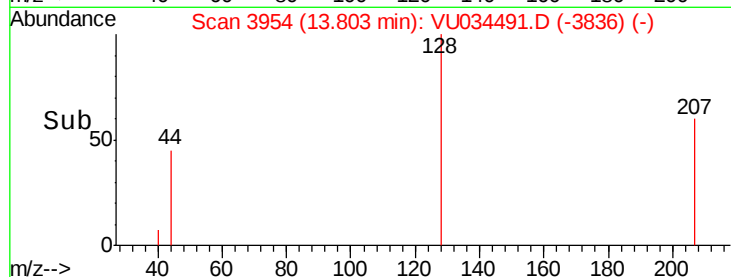
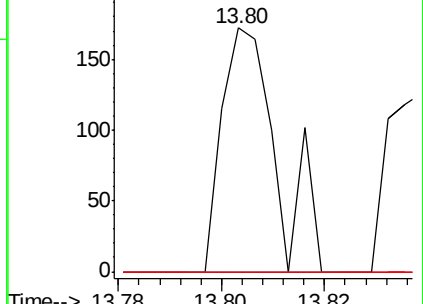
129 0.0 8.4 12.6#



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



#96

1,2,3-Trichlorobenzene

Concen: 2.643 ug/l

RT: 14.00 min Scan# 4014

Delta R.T. 0.03 min

Lab File: VU034491.D

Acq: 11 Sep 2019 21:48

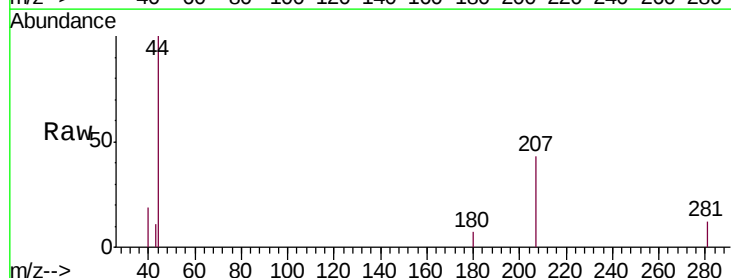
Tgt Ion:180 Resp: 20

Ion Ratio Lower Upper

180 100

182 0.0 48.4 145.0#

145 0.0 15.4 46.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

