

Data File : VU034421.D
Acq On : 09 Sep 2019 10:30
Operator : JC/SP
Sample : K4601-38
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T12-F4-(2.7)

Quant Time: Sep 10 05:35:10 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	251030	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	375986	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	405401	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	214185	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	210472	55.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.82%	
35) Dibromofluoromethane	4.86	113	186541	53.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.64%	
50) Toluene-d8	7.55	98	678913	51.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.30%	
62) 4-Bromofluorobenzene	10.29	95	220692	43.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.98%	

Target Compounds

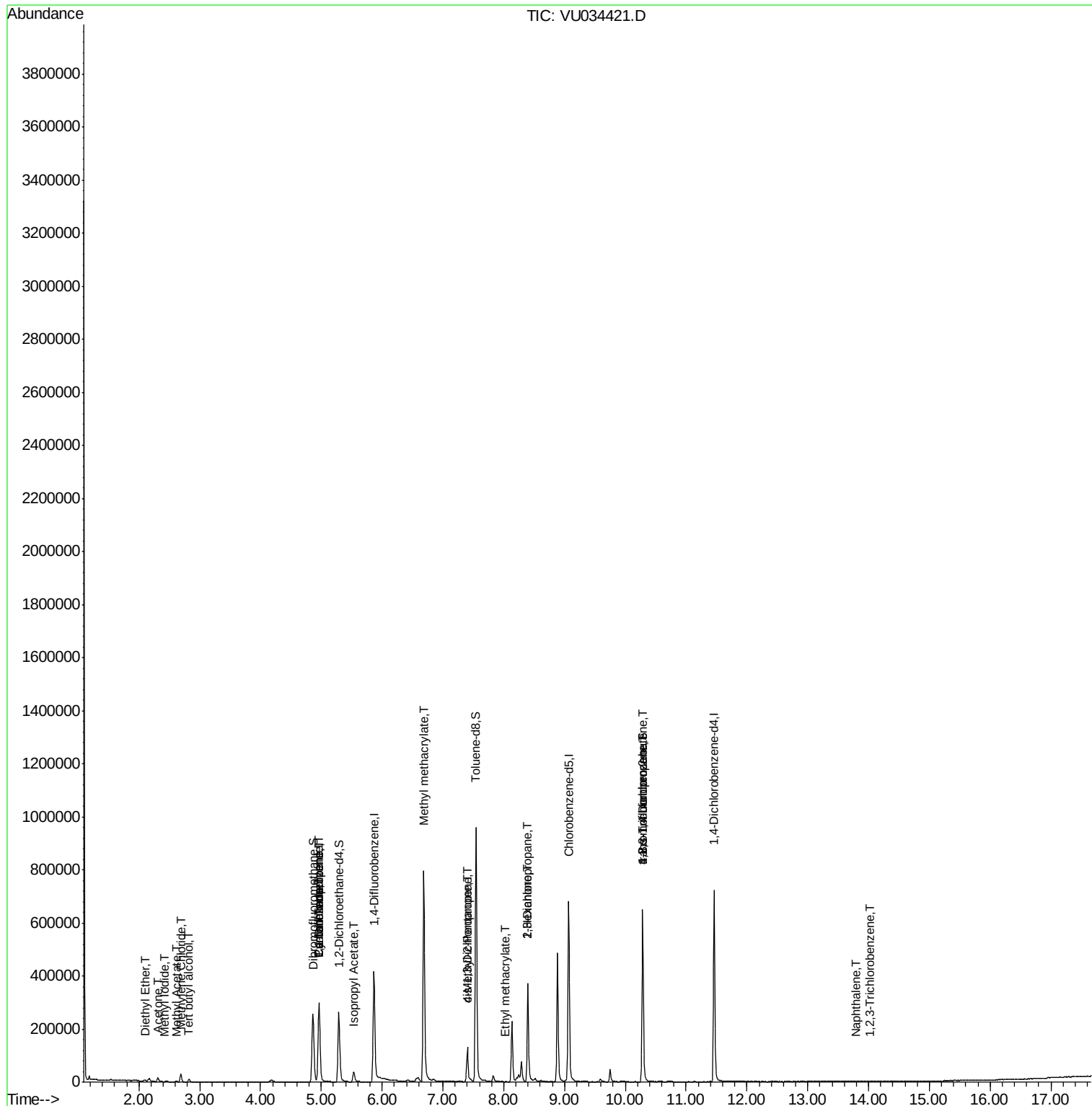
						Qvalue
5) Bromomethane	1.63	94	1055	Below Cal	#	68
6) Chloroethane	1.68	64	45	Below Cal	#	43
8) Diethyl Ether	2.09	74	986	0.511	ug/l	86
10) Methyl Iodide	2.41	142	62	3.868	ug/l #	43
11) Tert butyl alcohol	2.82	59	4964	6.186	ug/l #	73
16) Acetone	2.31	43	15779	8.028	ug/l	100
18) Methyl Acetate	2.62	43	3551	0.742	ug/l	91
20) Methylene Chloride	2.69	84	13827	3.927	ug/l	97
31) Cyclohexane	4.96	56	4248	0.955	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	16826	4.126	ug/l #	48
38) Carbon Tetrachloride	4.96	117	22269	5.115	ug/l #	16
43) Isopropyl Acetate	5.53	43	46264	6.151	ug/l	99
48) Methyl methacrylate	6.69	41	72932	20.417	ug/l #	37
51) 4-Methyl-2-Pentanone	7.40	43	43314	8.320	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	24675	4.364	ug/l #	67
56) Ethyl methacrylate	8.02	69	77	3.089	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	3886	0.637	ug/l #	43
59) 2-Hexanone	8.40	43	49005	12.601	ug/l #	56
76) 1,2,3-Trichloropropane	10.29	75	102157	21.850	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	102157	73.482	ug/l #	100
95) Naphthalene	13.78	128	182	3.978	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.01	180	41	2.647	ug/l #	49

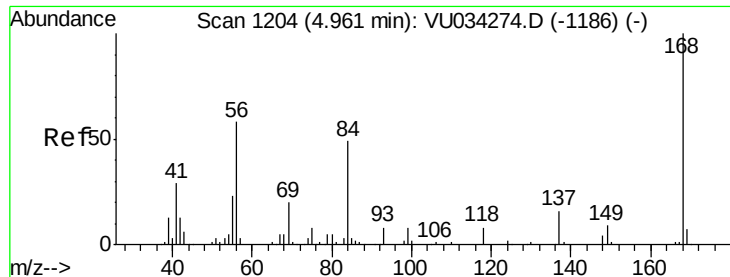
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034421.D

Acq: 09 Sep 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

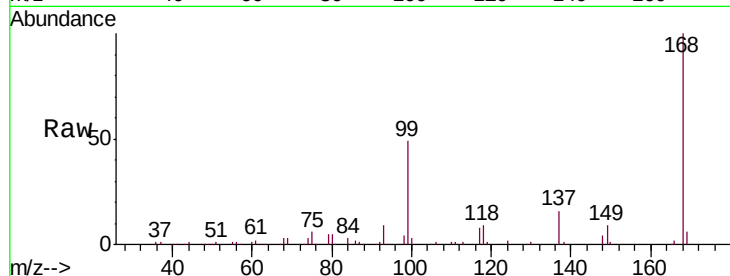
T12-F4-(2.7)

Tgt Ion:168 Resp: 251030

Ion Ratio Lower Upper

168 100

99 48.7 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034421.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034421.D (-1186) (-)

4.96

120000

100000

80000

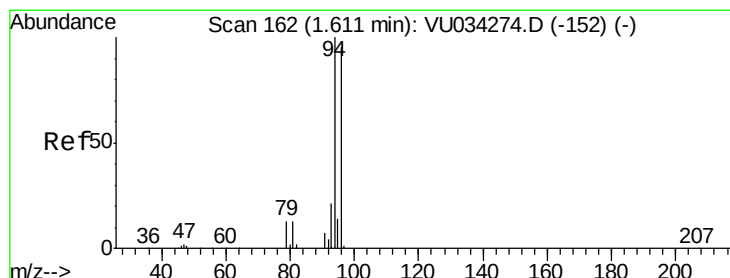
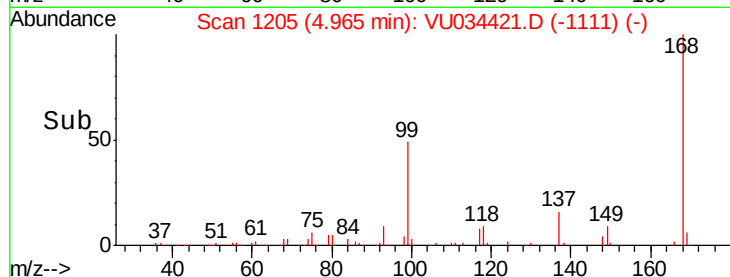
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034421.D

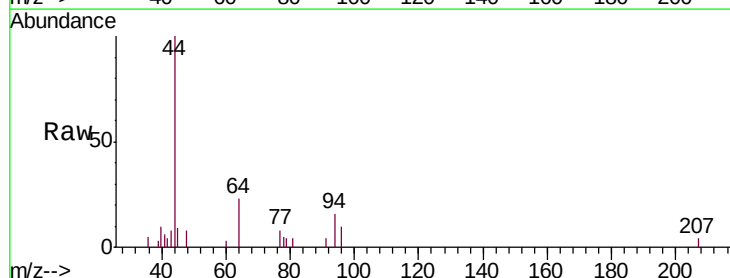
Acq: 09 Sep 2019 10:30

Tgt Ion: 94 Resp: 1055

Ion Ratio Lower Upper

94 100

96 63.1 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034421.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034421.D (-152) (-)

1.63

600

500

400

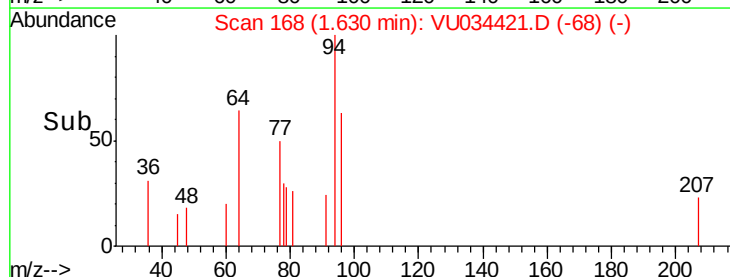
300

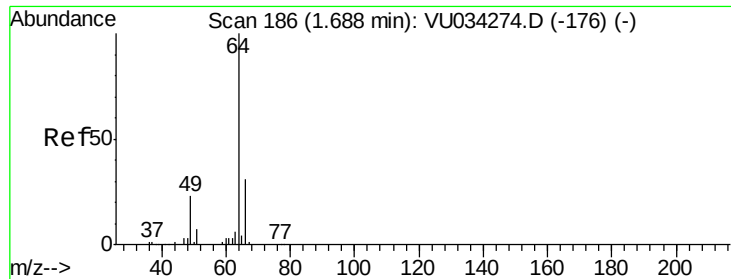
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 183

Delta R.T. -0.01 min

Lab File: VU034421.D

Acq: 09 Sep 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

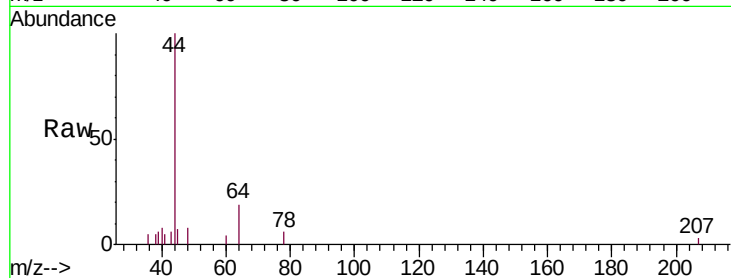
T12-F4-(2.7)

Tgt Ion: 64 Resp: 45

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU034421.D (-176) (-)

Ion 65.90 (65.60 to 66.60): VU034421.D (-176) (-)

1.68

600

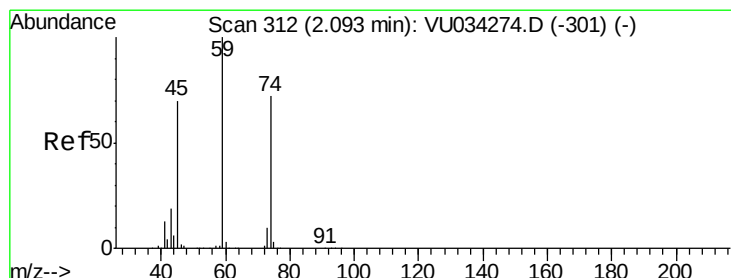
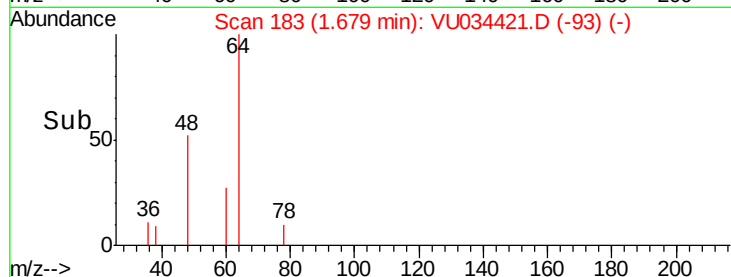
400

200

0

1.67 1.68 1.69

Time-->



#8

Diethyl Ether

Concen: 0.511 ug/l

RT: 2.09 min Scan# 312

Delta R.T. 0.00 min

Lab File: VU034421.D

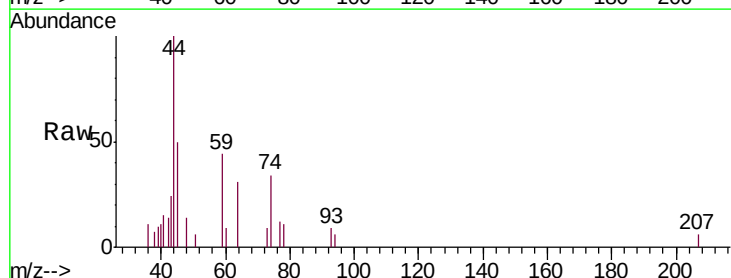
Acq: 09 Sep 2019 10:30

Tgt Ion: 74 Resp: 986

Ion Ratio Lower Upper

74 100

45 109.6 48.2 144.6



Abundance Ion 74.00 (73.70 to 74.70): VU034421.D (-301) (-)

Ion 45.00 (44.70 to 45.70): VU034421.D (-301) (-)

2.09

1000

800

600

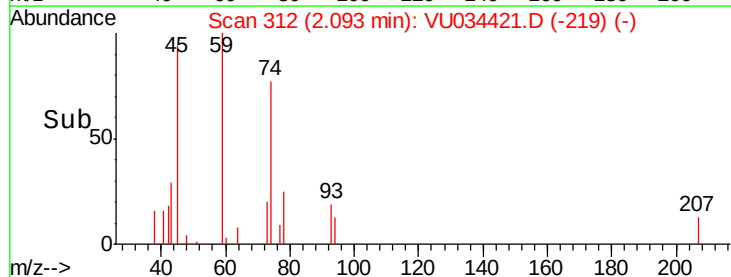
400

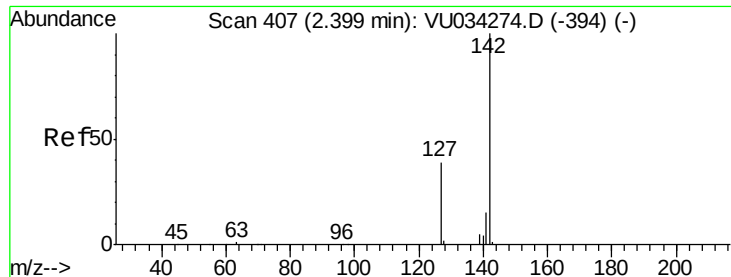
200

0

2.06 2.08 2.10 2.12 2.14

Time-->

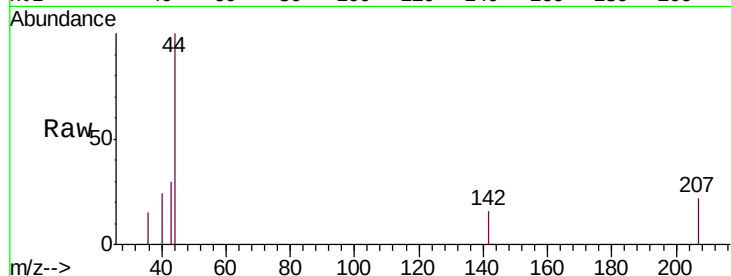




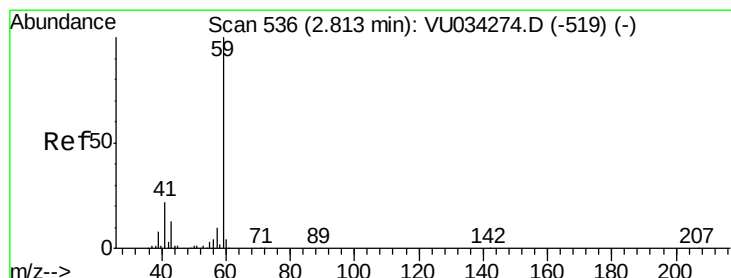
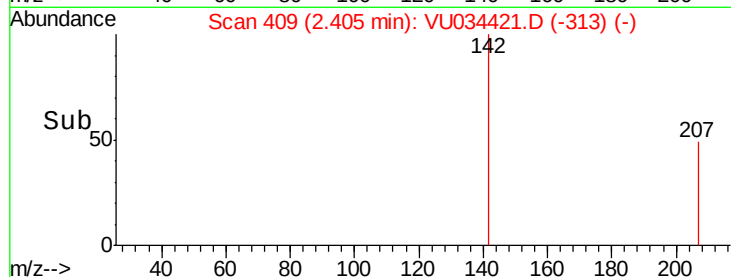
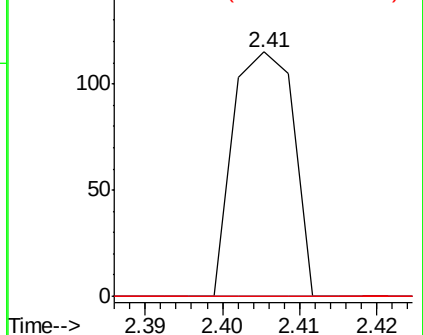
#10
Methyl Iodide
Concen: 3.868 ug/l
RT: 2.41 min Scan# 409
Delta R.T. 0.01 min
Lab File: VU034421.D
Acq: 09 Sep 2019 10:30

Instrument :
MSVOA_U
ClientSampleId :
T12-F4-(2.7)

Tgt Ion: 142 Resp: 62
Ion Ratio Lower Upper
142 100
127 0.0 32.1 48.1#
141 0.0 11.5 17.3#

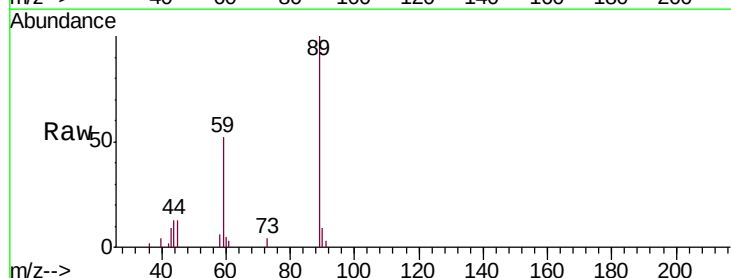


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

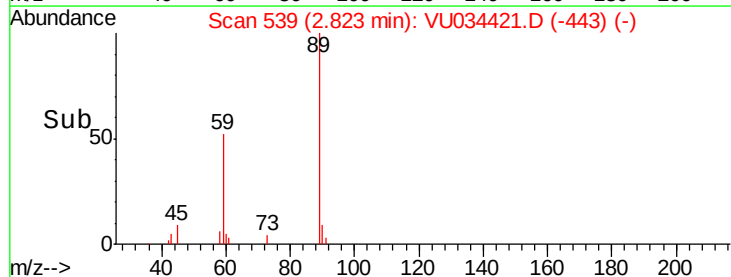
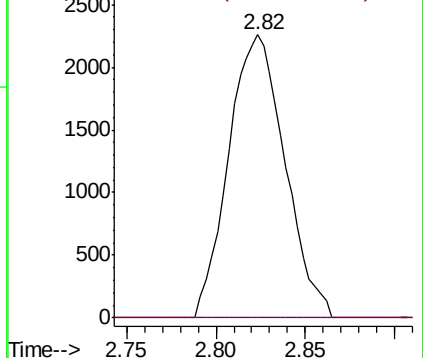


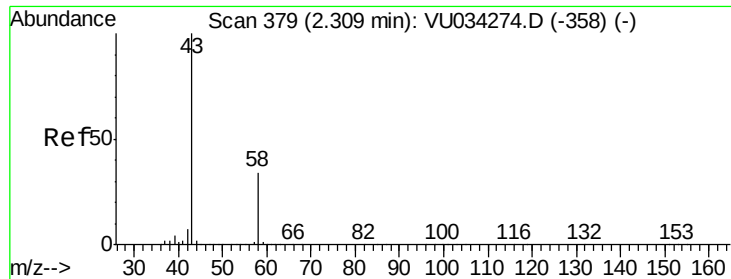
#11
Tert butyl alcohol
Concen: 6.186 ug/l
RT: 2.82 min Scan# 539
Delta R.T. 0.01 min
Lab File: VU034421.D
Acq: 09 Sep 2019 10:30

Tgt Ion: 59 Resp: 4964
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





#16

Acetone

Concen: 8.028 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034421.D

Acq: 09 Sep 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

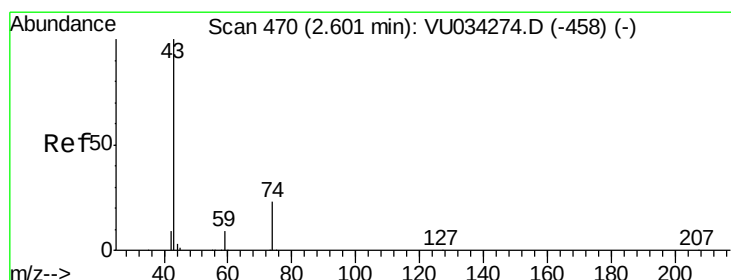
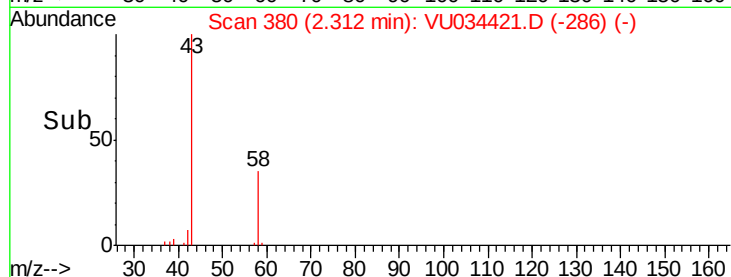
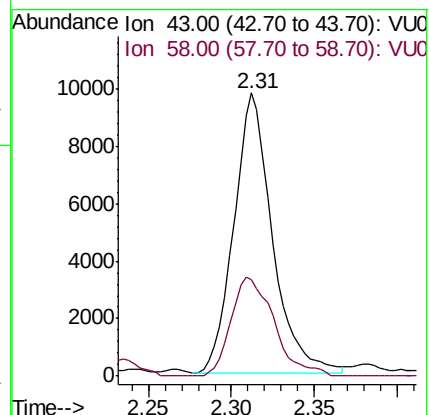
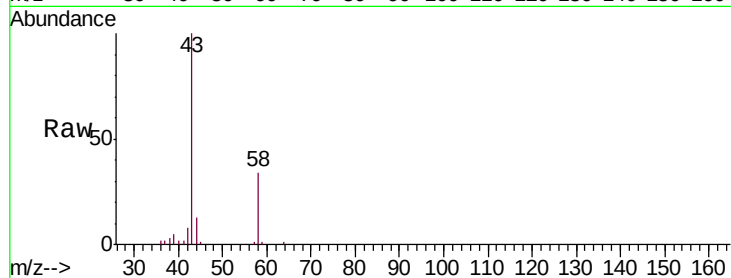
T12-F4-(2.7)

Tgt Ion: 43 Resp: 15779

Ion Ratio Lower Upper

43 100

58 34.6 27.6 41.4



#18

Methyl Acetate

Concen: 0.742 ug/l

RT: 2.62 min Scan# 475

Delta R.T. 0.02 min

Lab File: VU034421.D

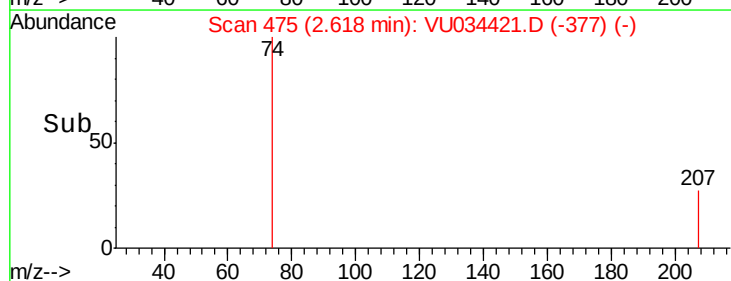
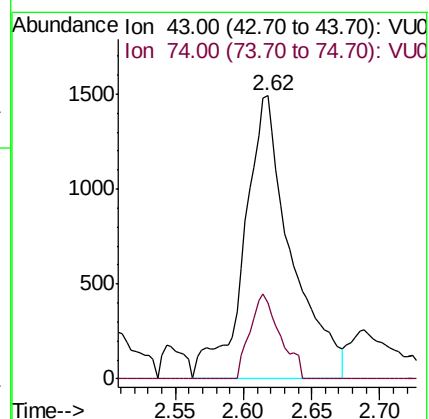
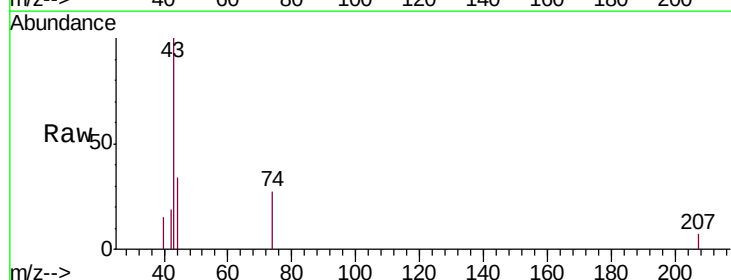
Acq: 09 Sep 2019 10:30

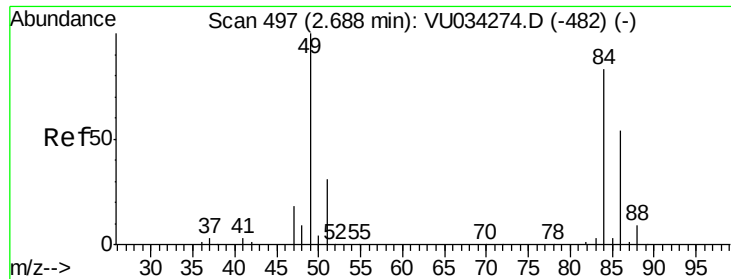
Tgt Ion: 43 Resp: 3551

Ion Ratio Lower Upper

43 100

74 19.1 18.9 28.3

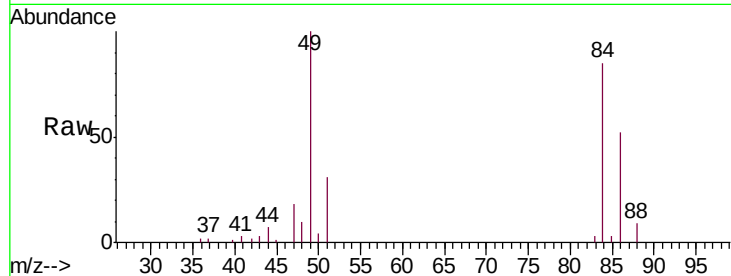




#20
Methylene Chloride
Concen: 3.927 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.00 min
Lab File: VU034421.D
Acq: 09 Sep 2019 10:30

Instrument :
MSVOA_U
ClientSampleId :
T12-F4-(2.7)

Tgt Ion:	84	Resp:	13827
Ion	Ratio	Lower	Upper
84	100		
49	117.3	96.0	144.0
51	35.8	30.0	45.0
86	60.5	51.4	77.0



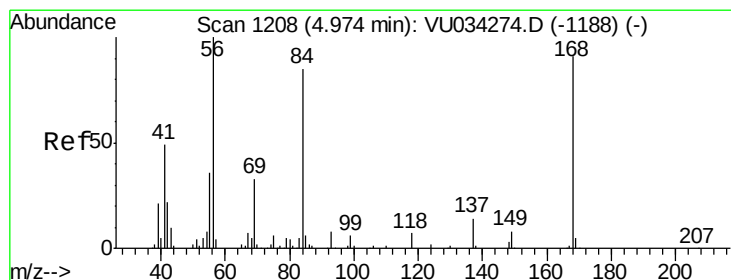
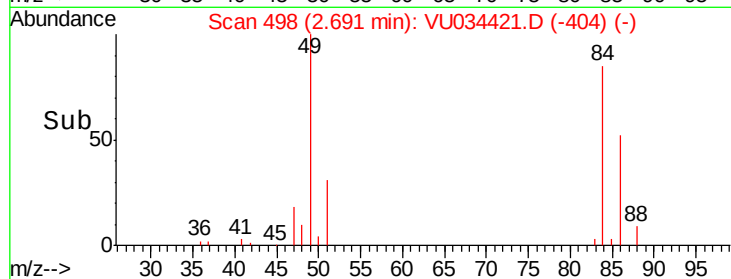
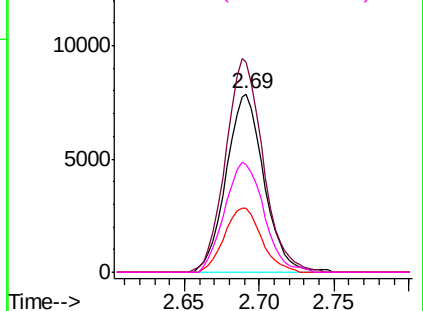
Abundance

Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

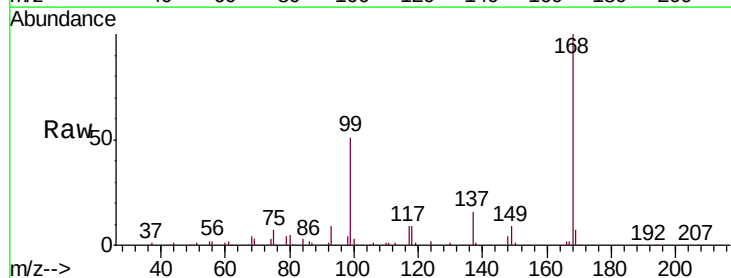
Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#31
Cyclohexane
Concen: 0.955 ug/l
RT: 4.96 min Scan# 1202
Delta R.T. -0.02 min
Lab File: VU034421.D
Acq: 09 Sep 2019 10:30

Tgt Ion:	56	Resp:	4248
Ion	Ratio	Lower	Upper
56	100		
69	161.8	26.7	40.1#
84	142.1	68.2	102.4#

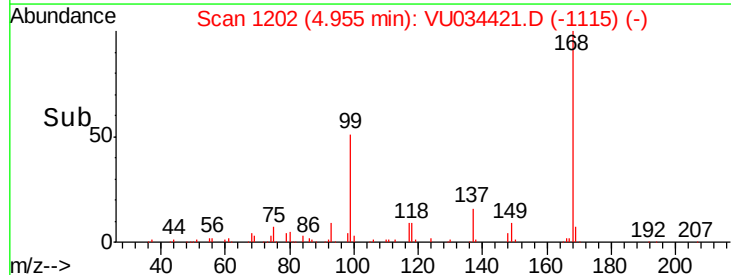
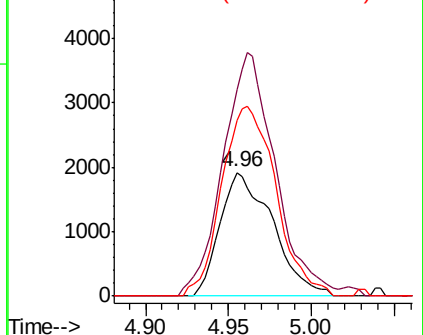


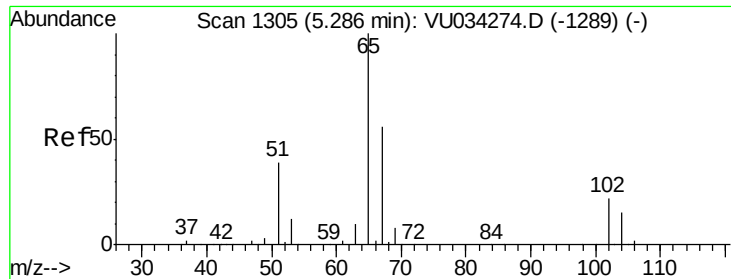
Abundance

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

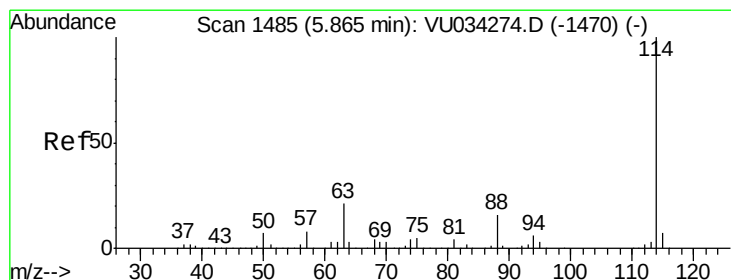
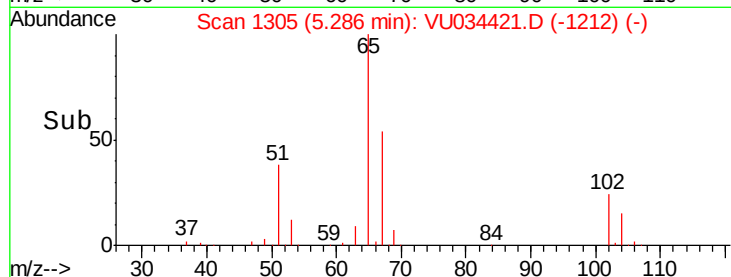
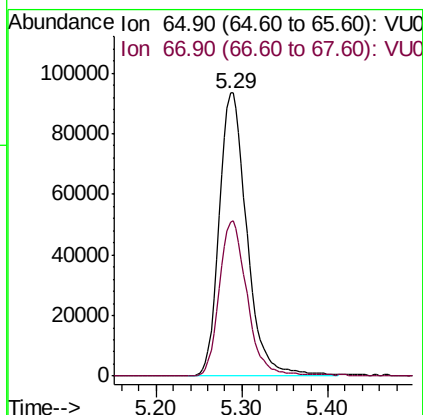
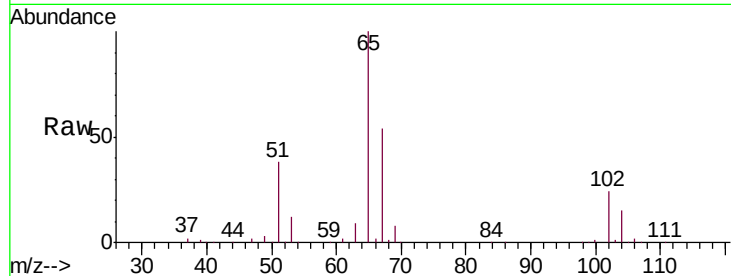




#33
 1,2-Dichloroethane-d4
 Concen: 55.414 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU034421.D
 Acq: 09 Sep 2019 10:30

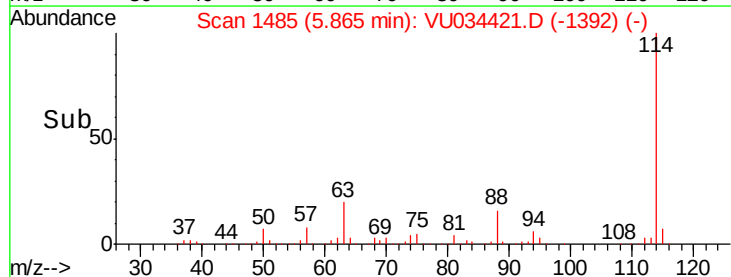
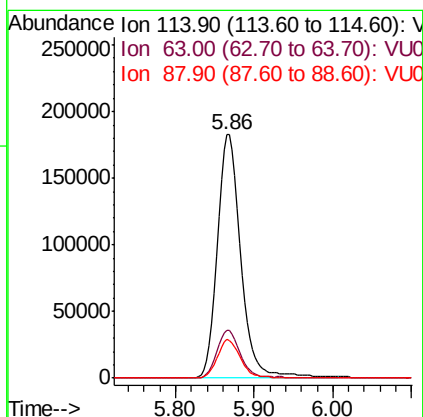
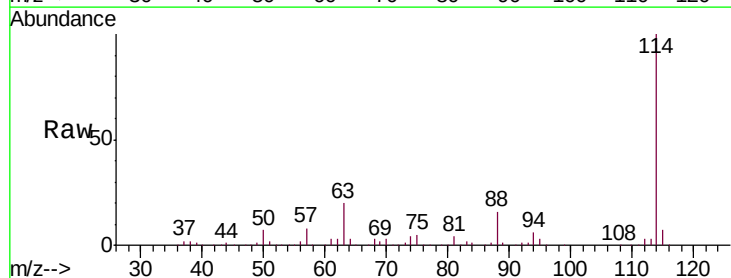
Instrument :
 MSVOA_U
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 T12-F4-(2.7)

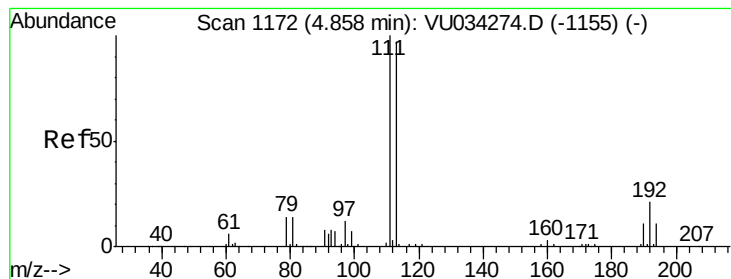
Tgt Ion: 65 Resp: 210472
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034421.D
 Acq: 09 Sep 2019 10:30

Tgt Ion: 114 Resp: 375986
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 42.4
 88 15.8 0.0 32.4





#35

Dibromofluoromethane

Concen: 53.319 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034421.D

Acq: 09 Sep 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

T12-F4-(2.7)

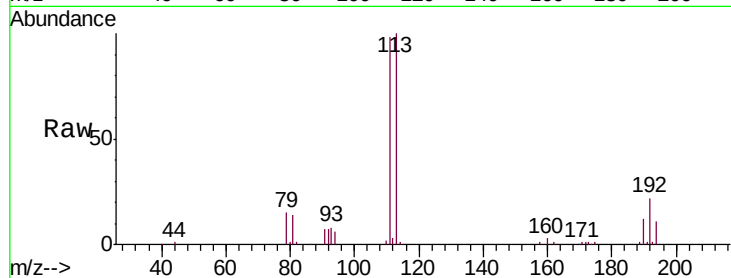
Tgt Ion:113 Resp: 186541

Ion Ratio Lower Upper

113 100

111 101.4 81.5 122.3

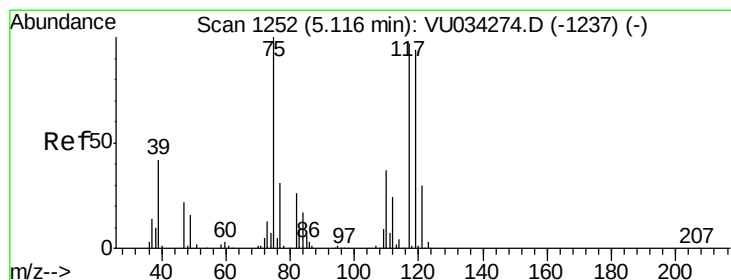
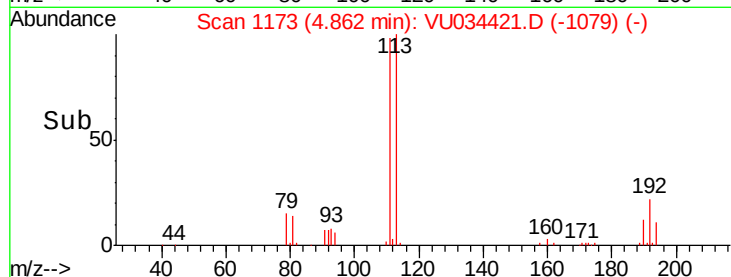
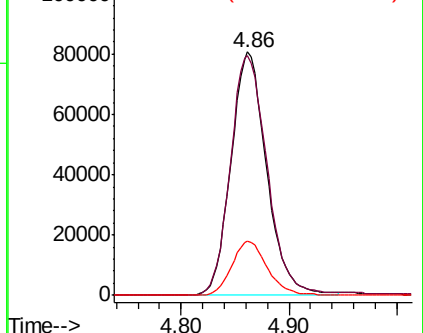
192 22.2 17.8 26.8



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: 4.126 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034421.D

Acq: 09 Sep 2019 10:30

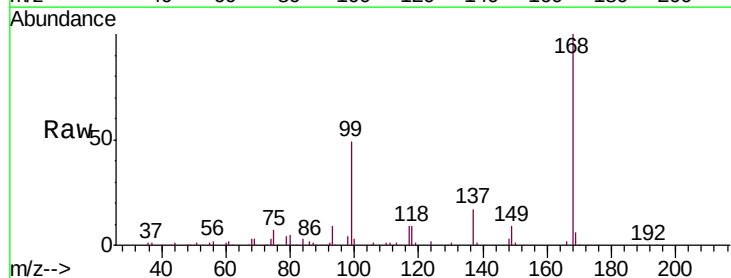
Tgt Ion: 75 Resp: 16826

Ion Ratio Lower Upper

75 100

110 8.0 18.3 54.9#

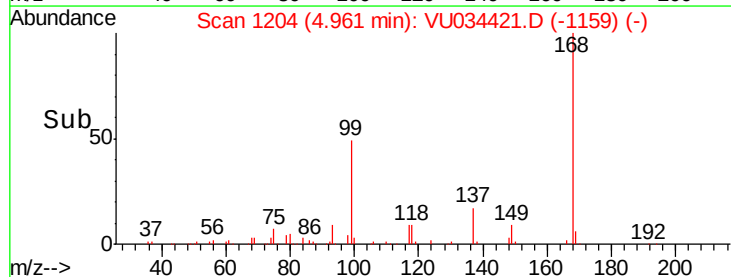
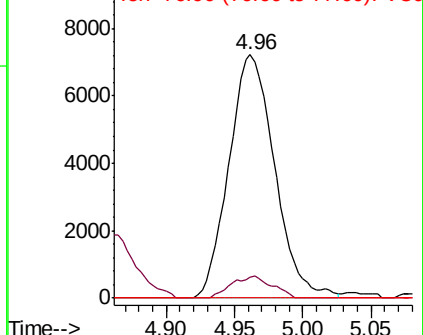
77 0.0 24.9 37.3#

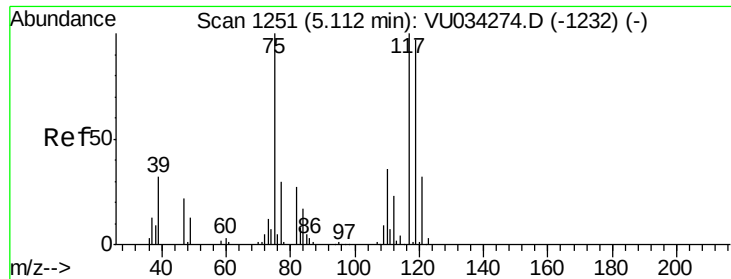


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 5.115 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.15 min

Lab File: VU034421.D

Acq: 09 Sep 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

T12-F4-(2.7)

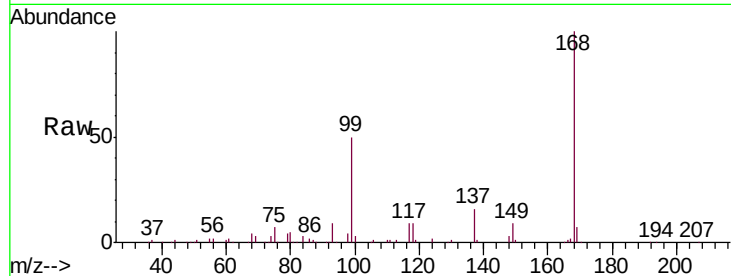
Tgt Ion:117 Resp: 22269

Ion Ratio Lower Upper

117 100

119 6.4 77.8 116.6#

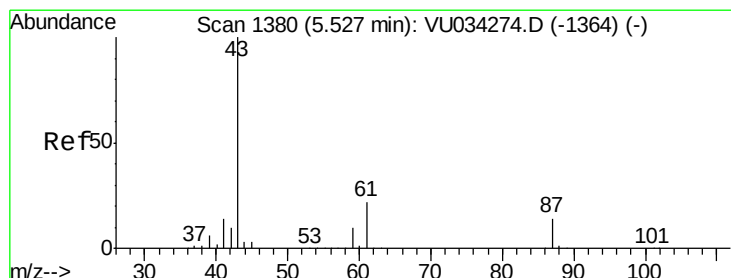
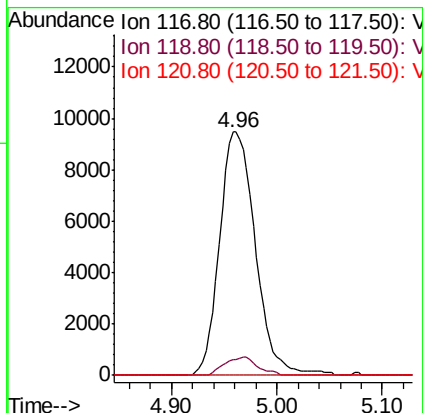
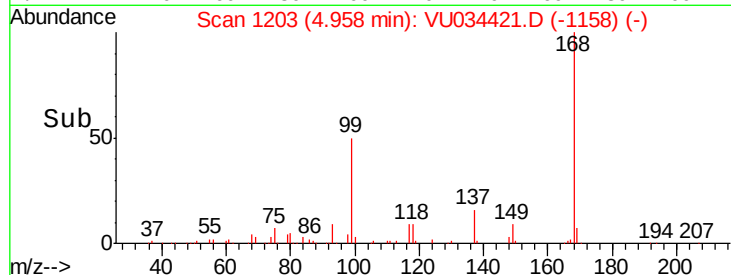
121 0.0 25.2 37.8#



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: 6.151 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034421.D

Acq: 09 Sep 2019 10:30

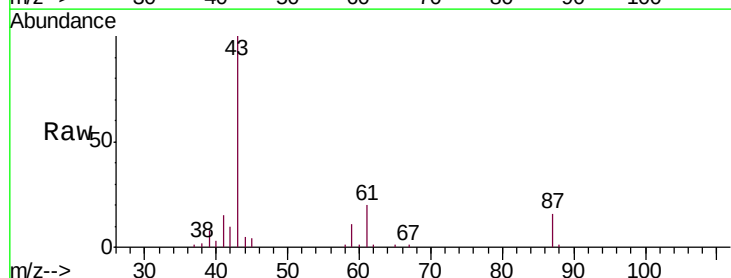
Tgt Ion: 43 Resp: 46264

Ion Ratio Lower Upper

43 100

61 21.1 17.1 25.7

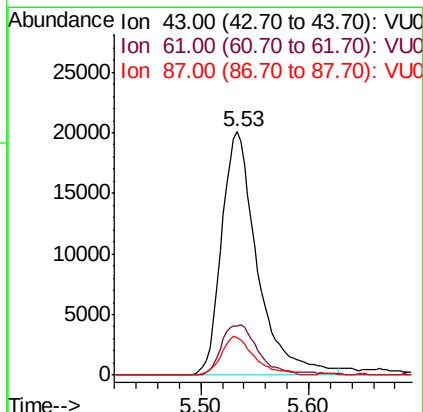
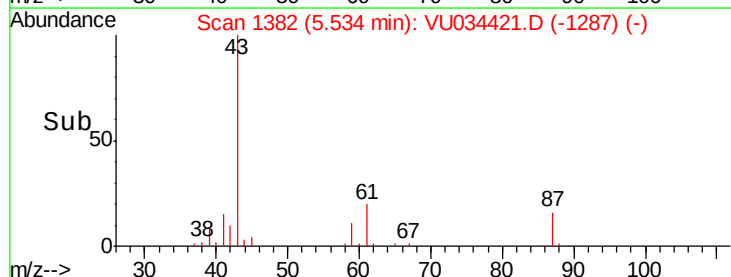
87 14.6 11.1 16.7

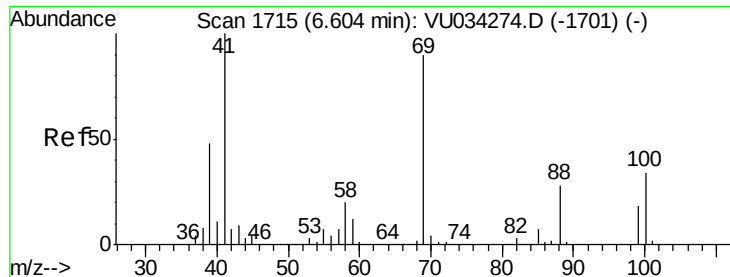


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#48

Methyl methacrylate

Concen: 20.417 ug/l

RT: 6.69 min Scan# 1741

Delta R.T. 0.08 min

Lab File: VU034421.D

Acq: 09 Sep 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

T12-F4-(2.7)

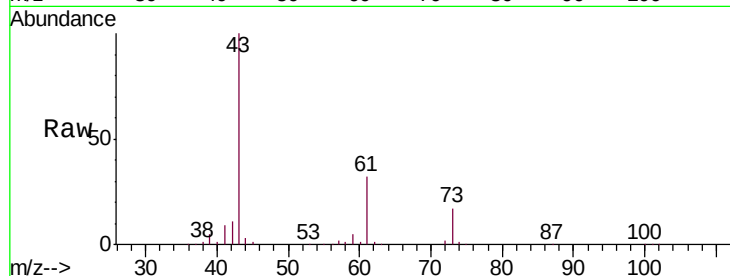
Tgt Ion: 41 Resp: 72932

Ion Ratio Lower Upper

41 100

69 0.0 72.8 109.2#

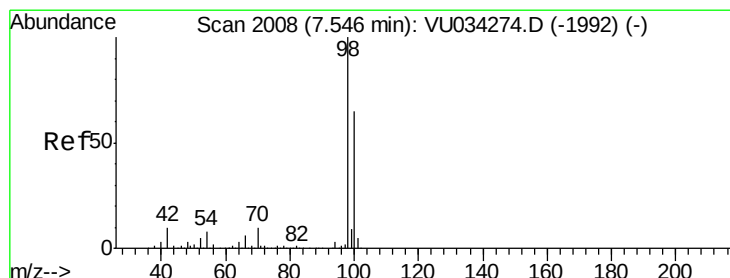
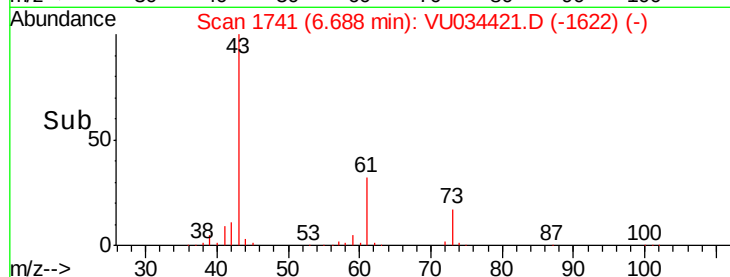
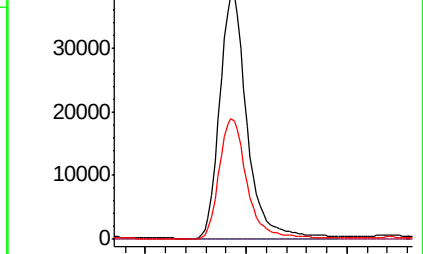
39 49.7 38.6 58.0



Abundance Ion 41.00 (40.70 to 41.70): VU034421.D (-1622) (-)

Ion 69.00 (68.70 to 69.70): VU034421.D (-1622) (-)

Ion 39.00 (38.70 to 39.70): VU034421.D (-1622) (-)



#50

Toluene-d8

Concen: 51.651 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034421.D

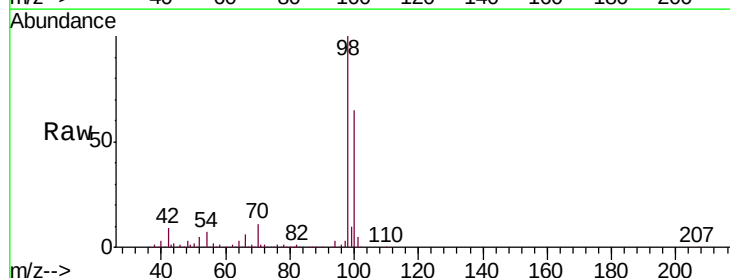
Acq: 09 Sep 2019 10:30

Tgt Ion: 98 Resp: 678913

Ion Ratio Lower Upper

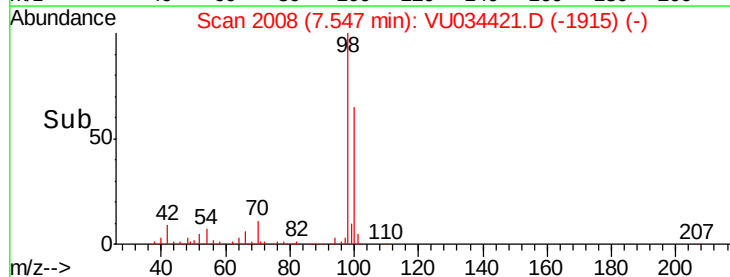
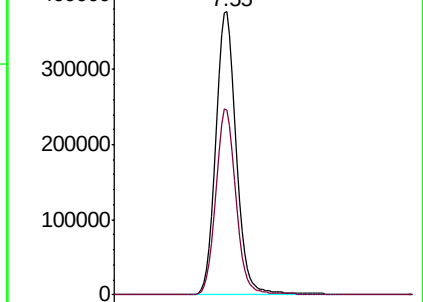
98 100

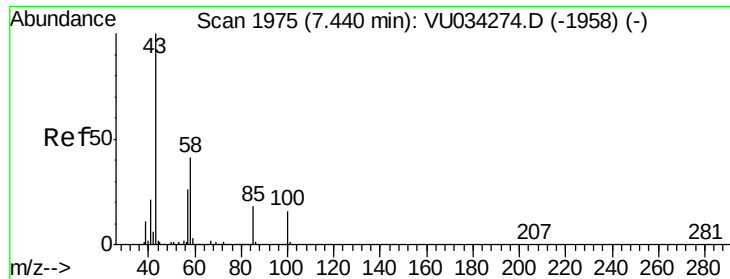
100 64.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU034421.D (-1915) (-)

Ion 100.00 (99.70 to 100.70): VU034421.D (-1915) (-)

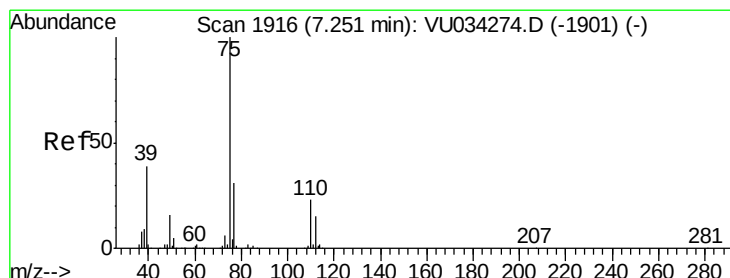
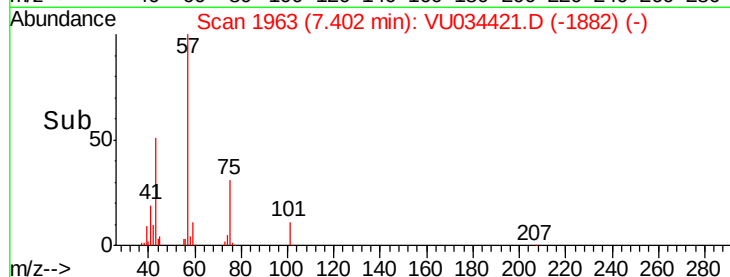
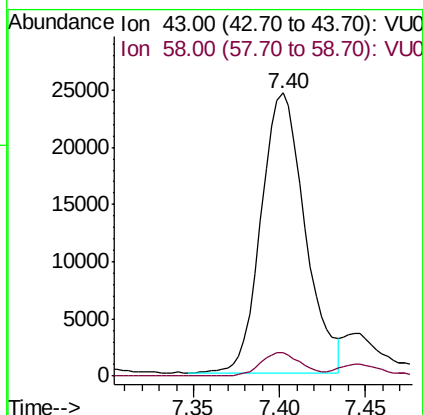
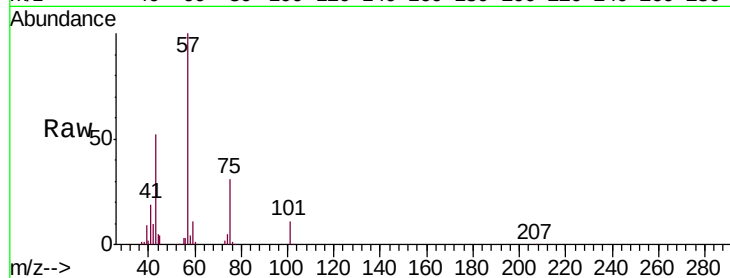




#51
 4-Methyl-2-Pentanone
 Concen: 8.320 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034421.D
 Acq: 09 Sep 2019 10:30

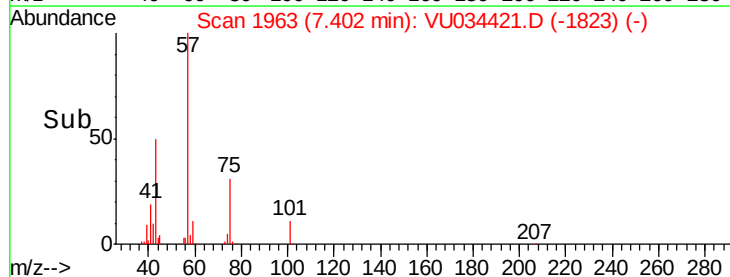
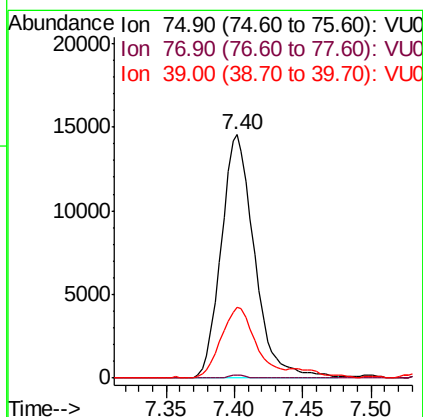
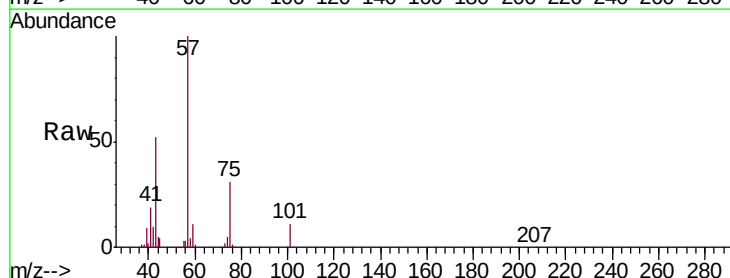
Instrument :
 MSVOA_U
 ClientSampleId :
 T12-F4-(2.7)

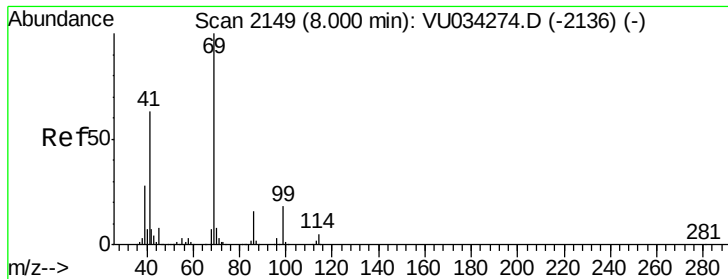
Tgt Ion: 43 Resp: 43314
 Ion Ratio Lower Upper
 43 100
 58 7.6 33.0 49.4#



#54
 cis-1,3-Dichloropropene
 Concen: 4.364 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034421.D
 Acq: 09 Sep 2019 10:30

Tgt Ion: 75 Resp: 24675
 Ion Ratio Lower Upper
 75 100
 77 1.2 25.1 37.7#
 39 29.1 31.2 46.8#





#56

Ethyl methacrylate

Concen: 3.089 ug/l

RT: 8.02 min Scan# 2155

Delta R.T. 0.02 min

Lab File: VU034421.D

Acq: 09 Sep 2019 10:30

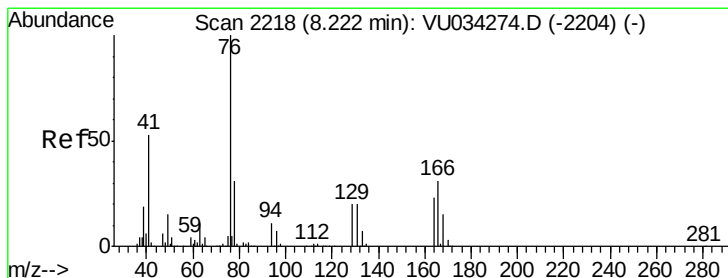
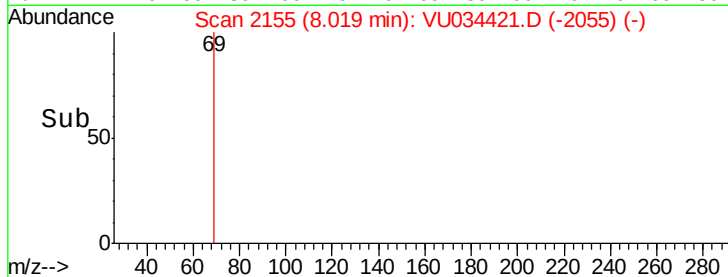
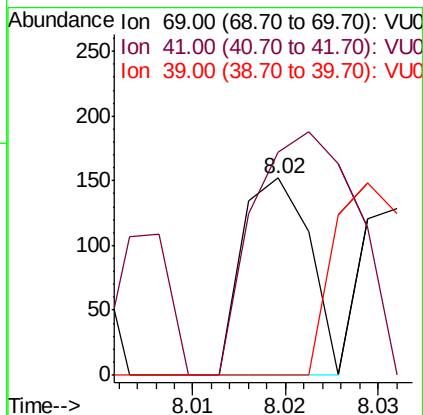
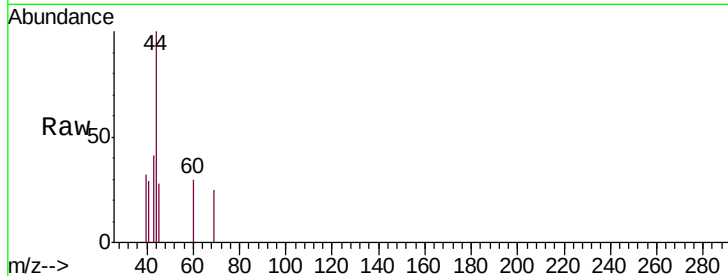
Instrument :

MSVOA_U

ClientSampleId :

T12-F4-(2.7)

Tgt Ion:	69	Resp:	77
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: 0.637 ug/l

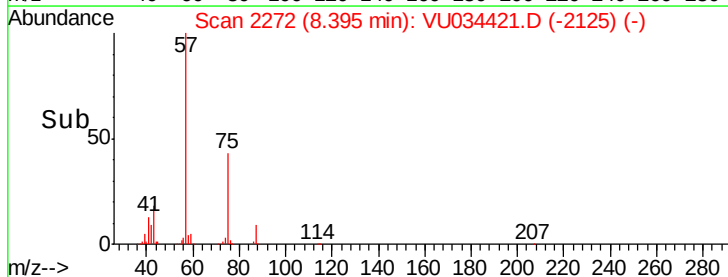
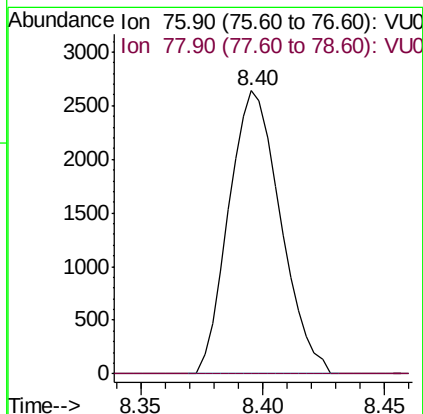
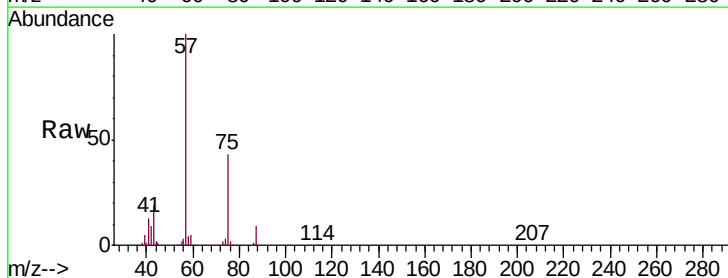
RT: 8.40 min Scan# 2272

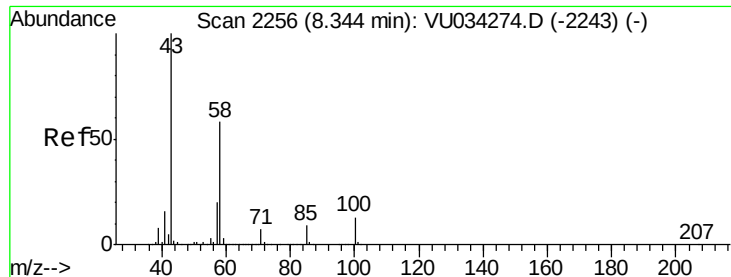
Delta R.T. 0.17 min

Lab File: VU034421.D

Acq: 09 Sep 2019 10:30

Tgt Ion:	76	Resp:	3886
Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.4	38.2#

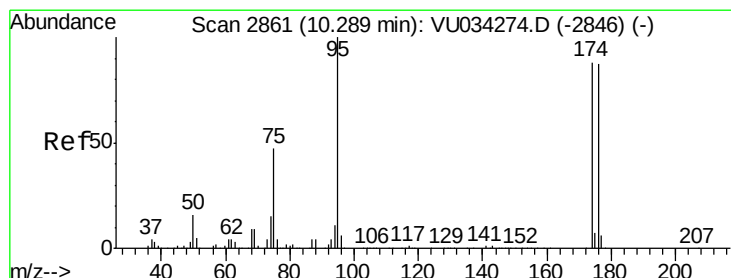
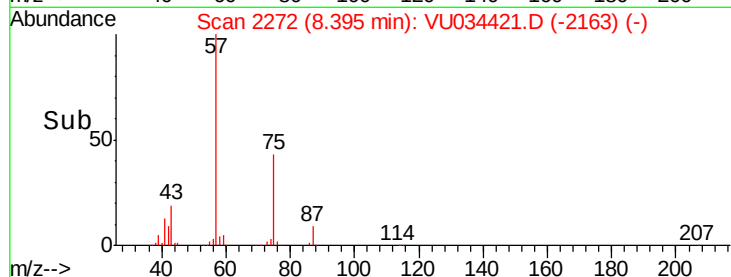
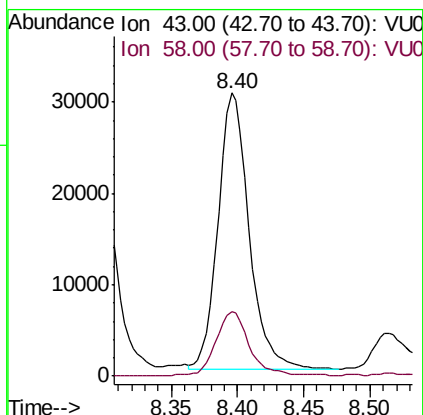
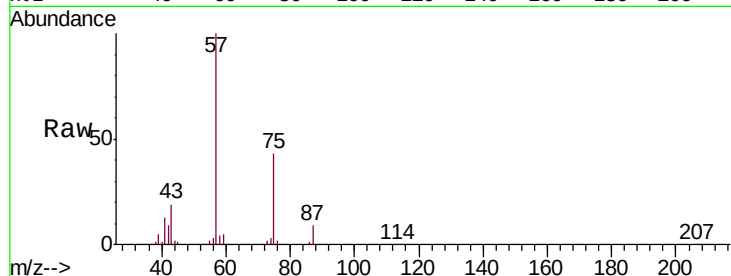




#59
2-Hexanone
Concen: 12.601 ug/l
RT: 8.40 min Scan# 2272
Delta R.T. 0.05 min
Lab File: VU034421.D
Acq: 09 Sep 2019 10:30

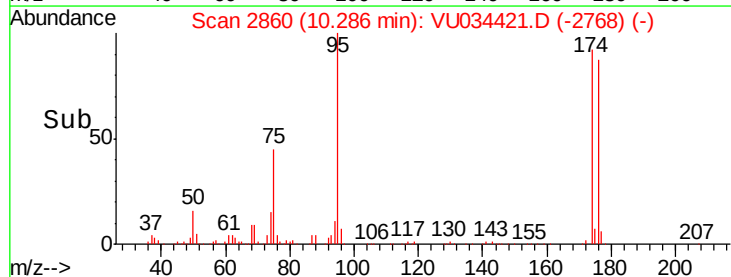
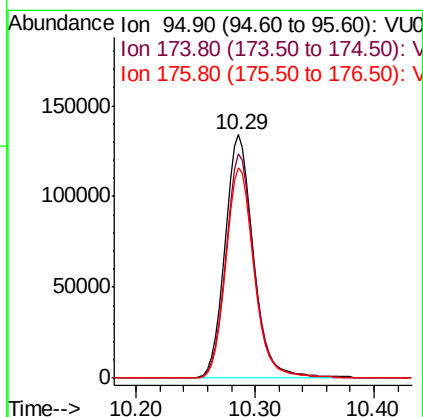
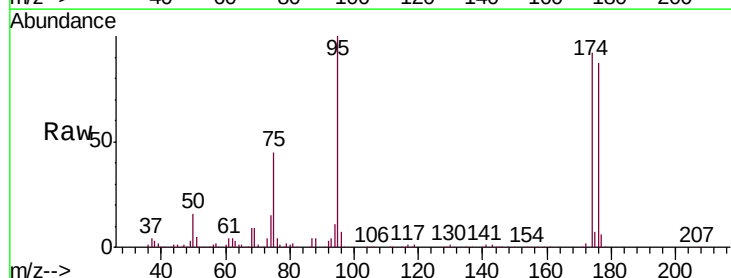
Instrument :
MSVOA_U
ClientSampleId :
T12-F4-(2.7)

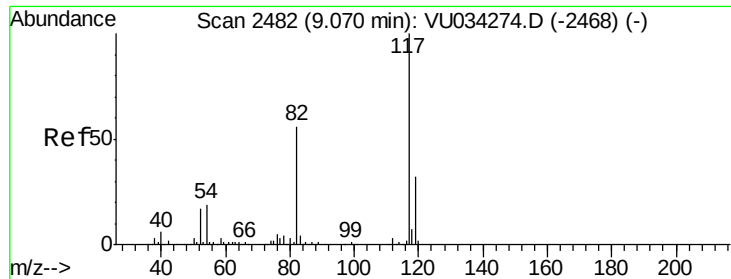
Tgt Ion: 43 Resp: 49005
Ion Ratio Lower Upper
43 100
58 25.2 28.8 86.5#



#62
4-Bromofluorobenzene
Concen: 43.487 ug/l
RT: 10.29 min Scan# 2860
Delta R.T. -0.00 min
Lab File: VU034421.D
Acq: 09 Sep 2019 10:30

Tgt Ion: 95 Resp: 220692
Ion Ratio Lower Upper
95 100
174 93.2 0.0 175.2
176 86.5 0.0 168.0

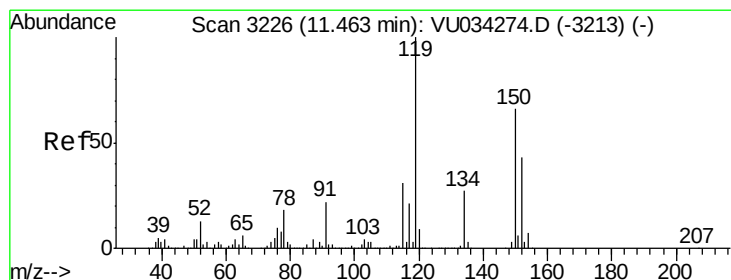
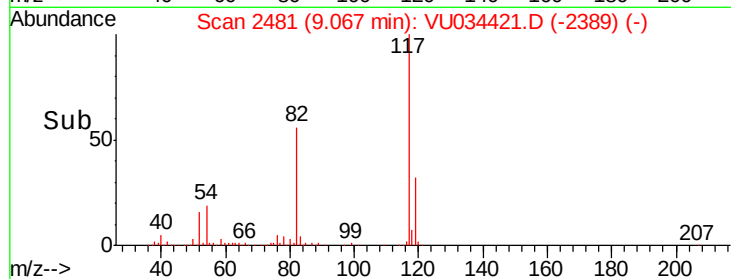
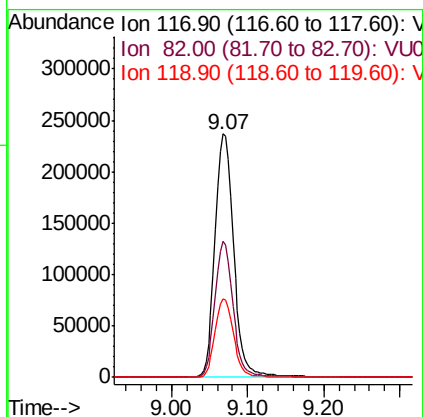
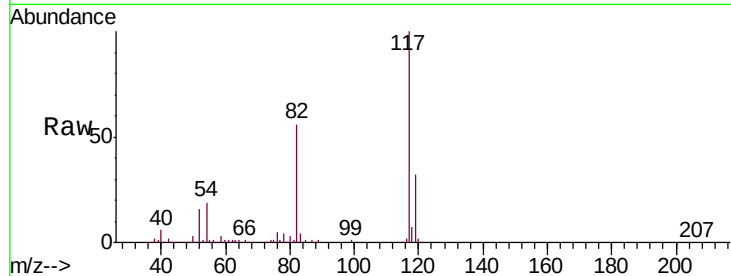




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.07 min Scan# 2481
 Delta R.T. -0.00 min
 Lab File: VU034421.D
 Acq: 09 Sep 2019 10:30

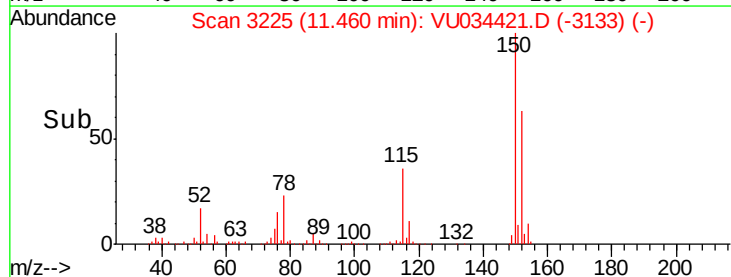
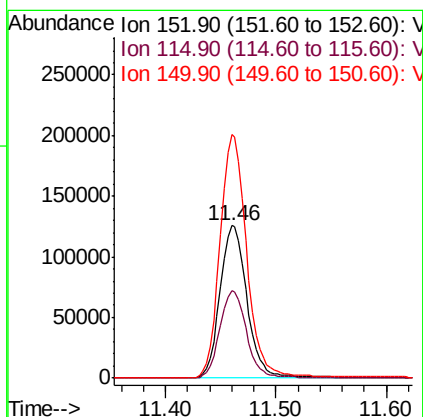
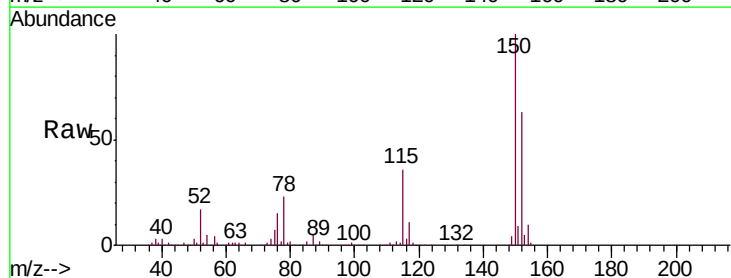
Instrument :
 MSVOA_U
 ClientSampleId :
 T12-F4-(2.7)

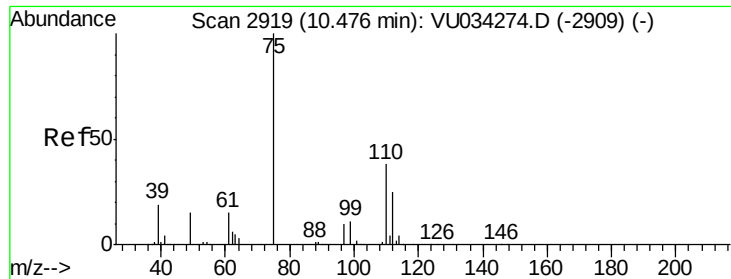
Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.7	44.6	67.0
119	32.2	25.9	38.9



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.46 min Scan# 3225
 Delta R.T. -0.00 min
 Lab File: VU034421.D
 Acq: 09 Sep 2019 10:30

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.4	39.1	117.3
150	157.9	0.0	345.4





#76

1,2,3-Trichloropropane

Concen: 21.850 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034421.D

Acq: 09 Sep 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

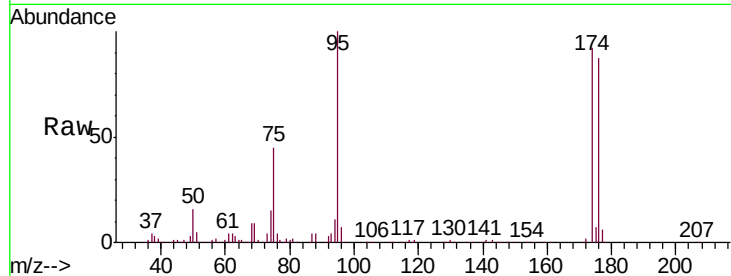
T12-F4-(2.7)

Tgt Ion: 75 Resp: 102157

Ion Ratio Lower Upper

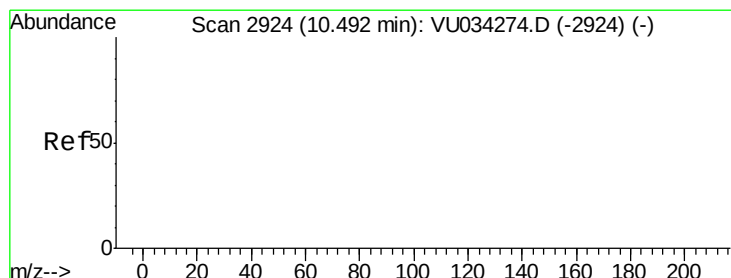
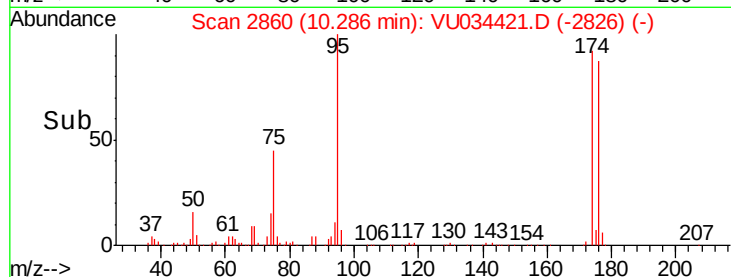
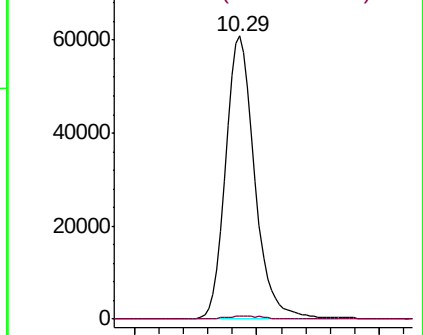
75 100

77 1.4 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: 73.482 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034421.D

Acq: 09 Sep 2019 10:30

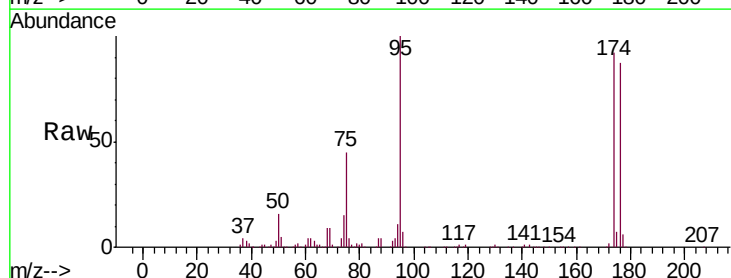
Tgt Ion: 75 Resp: 102157

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

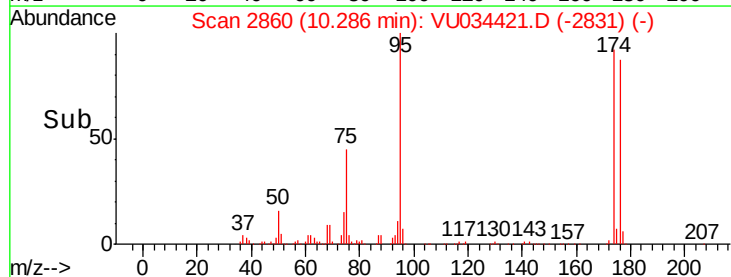
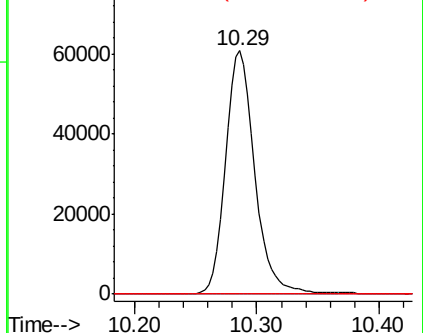
89 0.0 0.0 0.0

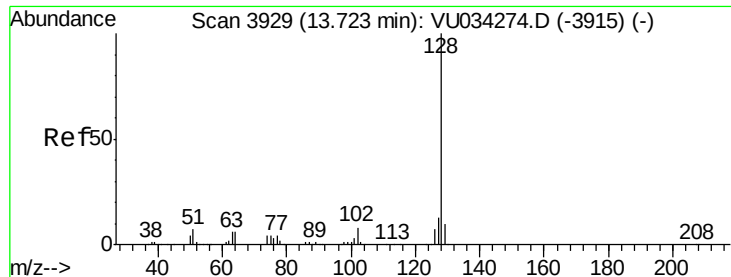


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

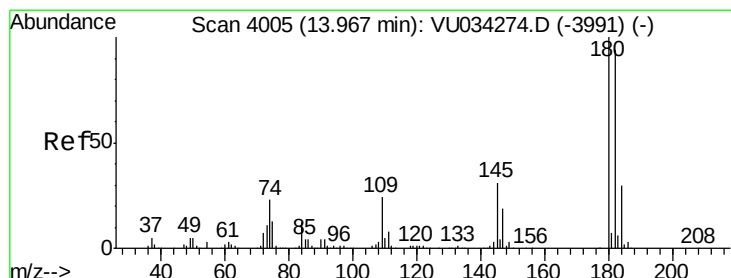
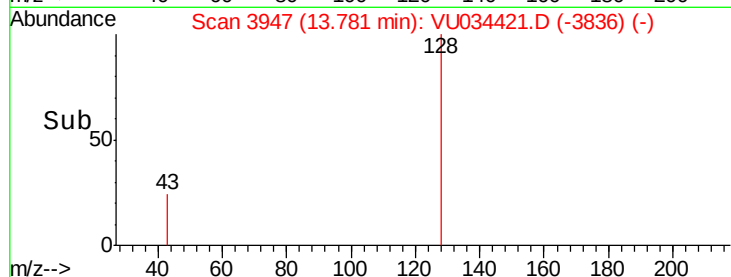
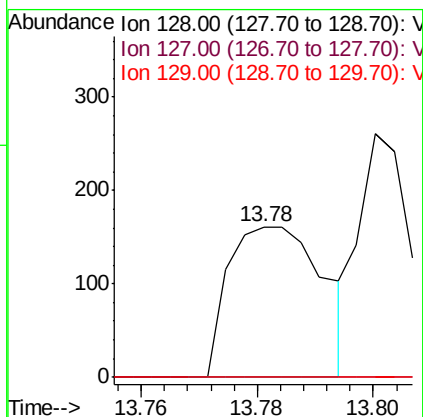
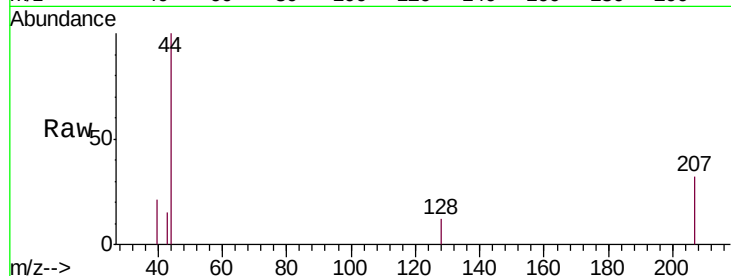




#95
Naphthalene
Concen: 3.978 ug/l
RT: 13.78 min Scan# 3947
Delta R.T. 0.06 min
Lab File: VU034421.D
Acq: 09 Sep 2019 10:30

Instrument :
MSVOA_U
ClientSampleId :
T12-F4-(2.7)

Tgt Ion:128 Resp: 182
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.4 12.6#



#96
1,2,3-Trichlorobenzene
Concen: 2.647 ug/l
RT: 14.01 min Scan# 4019
Delta R.T. 0.05 min
Lab File: VU034421.D
Acq: 09 Sep 2019 10:30

Tgt Ion:180 Resp: 41
Ion Ratio Lower Upper
180 100
182 48.8 48.4 145.0
145 0.0 15.4 46.4#

