

Data File : VU034003.D
Acq On : 28 Aug 2019 04:39
Operator : JC/SP
Sample : K4516-35
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T2-S-B4-(0)

Quant Time: Aug 28 05:44:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082819W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 28 02:42:03 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	448181	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	723028	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	694273	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	295379	50.00	ug/l	0.00

System Monitoring Compounds

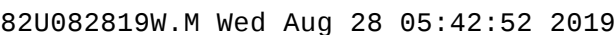
33) 1,2-Dichloroethane-d4	5.29	65	306538	61.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	123.14%	
35) Dibromofluoromethane	4.86	113	239787	49.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.68%	
50) Toluene-d8	7.55	98	932335	52.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.02%	
62) 4-Bromofluorobenzene	10.29	95	306929	44.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.26%	

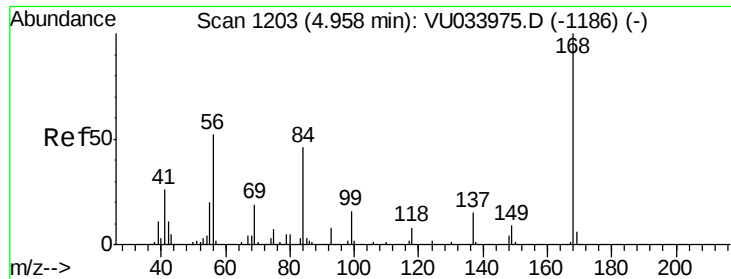
Target Compounds

						Qvalue
3) Chloromethane	1.32	50	3532	1.622	ug/l	99
5) Bromomethane	1.62	94	1523	0.557	ug/l	84
8) Diethyl Ether	2.09	74	556	0.248	ug/l	86
11) Tert butyl alcohol	2.83	59	4235	3.284	ug/l #	85
16) Acetone	2.31	43	12081	5.069	ug/l	99
18) Methyl Acetate	2.61	43	5954	1.014	ug/l #	87
20) Methylene Chloride	2.69	84	12616	2.495	ug/l	89
31) Cyclohexane	4.96	56	9616	1.310	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	36241	5.473	ug/l #	49
38) Carbon Tetrachloride	4.96	117	43660	6.469	ug/l #	16
43) Isopropyl Acetate	5.53	43	74375	7.303	ug/l	96
48) Methyl methacrylate	6.68	41	108088	22.322	ug/l #	36
49) 1,4-Dioxane	6.68	88	103	0.775	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	81700	11.635	ug/l #	44
54) cis-1,3-Dichloropropene	7.40	75	36417	4.465	ug/l #	69
56) Ethyl methacrylate	7.89	69	373	2.557	ug/l #	29
57) 1,3-Dichloropropane	8.40	76	5547	0.649	ug/l #	43
59) 2-Hexanone	8.40	43	73798	13.673	ug/l #	50
74) N-amyl acetate	9.92	43	2196	0.308	ug/l #	43
76) 1,2,3-Trichloropropane	10.29	75	151488	25.740	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	151488	73.724	ug/l #	100
95) Naphthalene	13.82	128	73	2.087	ug/l #	70

(#) = 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# 1204

Delta R.T. 0.00 min

Lab File: VU034003.D

Acq: 28 Aug 2019 04:39

Instrument :

MSVOA_U

ClientSampleId :

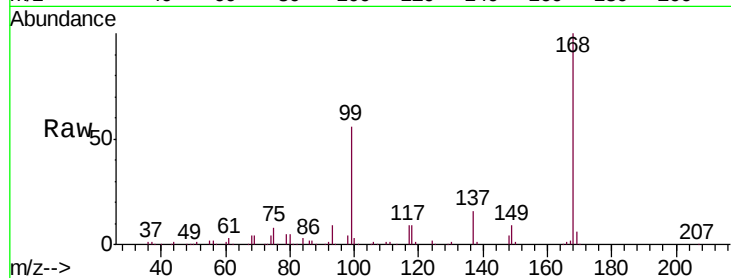
T2-S-B4-(0)

Tgt Ion:168 Resp: 448181

Ion Ratio Lower Upper

168 100

99 56.2 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): VU033975.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU033975.D (-1186) (-)

4.96

200000

150000

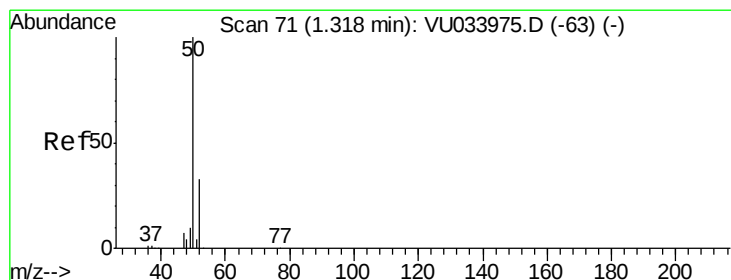
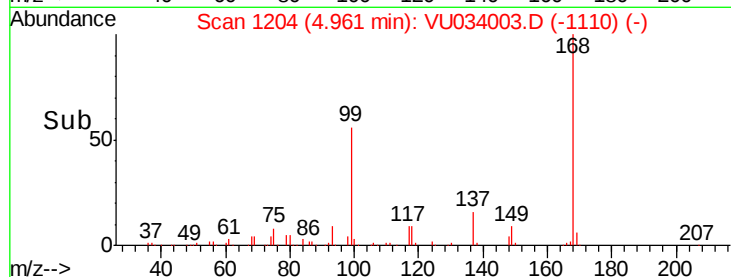
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: 1.622 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.01 min

Lab File: VU034003.D

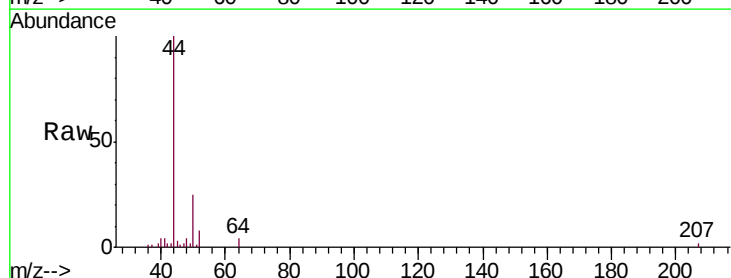
Acq: 28 Aug 2019 04:39

Tgt Ion: 50 Resp: 3532

Ion Ratio Lower Upper

50 100

52 32.2 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VU033975.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU033975.D (-63) (-)

1.32

3000

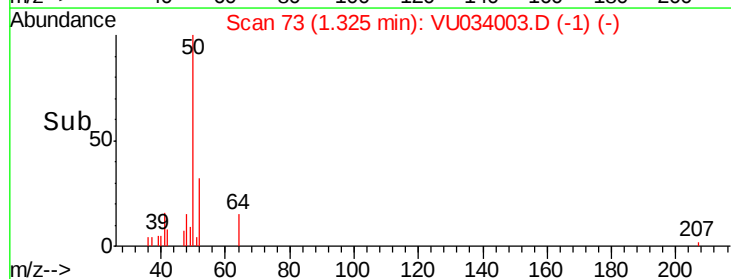
2000

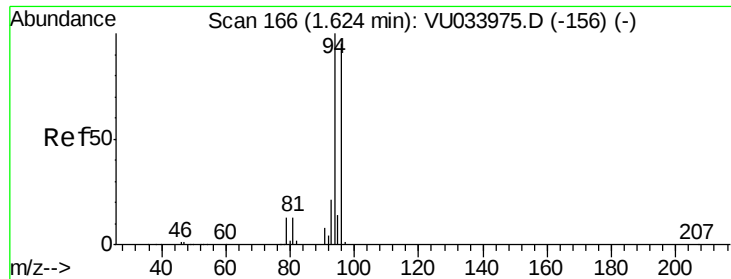
1000

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: 0.557 ug/l

RT: 1.62 min Scan# 164

Delta R.T. -0.01 min

Lab File: VU034003.D

Acq: 28 Aug 2019 04:39

Instrument :

MSVOA_U

ClientSampleId :

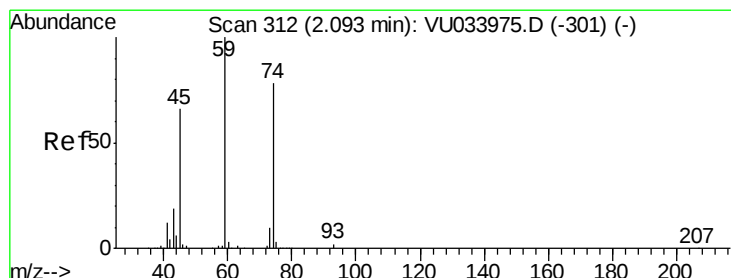
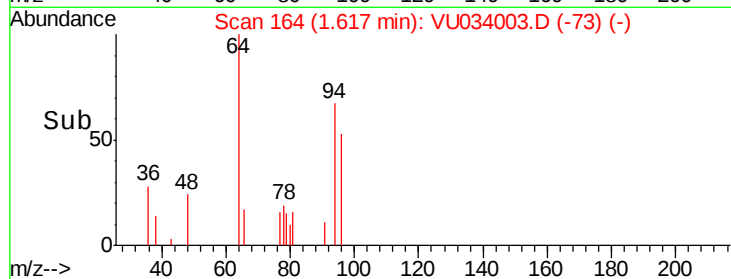
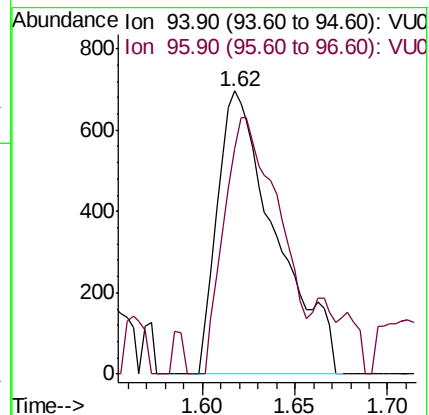
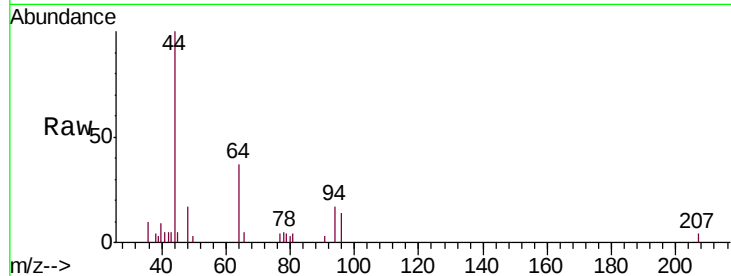
T2-S-B4-(0)

Tgt Ion: 94 Resp: 1523

Ion Ratio Lower Upper

94 100

96 79.6 76.3 114.5



#8

Diethyl Ether

Concen: 0.248 ug/l

RT: 2.09 min Scan# 311

Delta R.T. -0.00 min

Lab File: VU034003.D

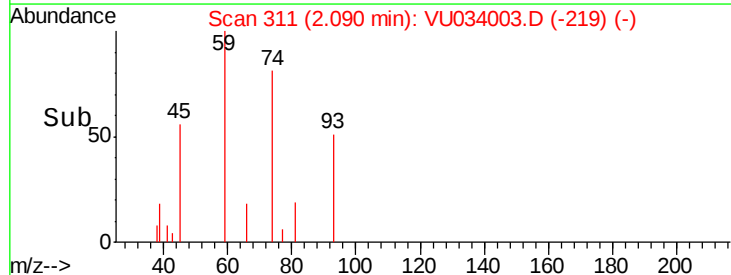
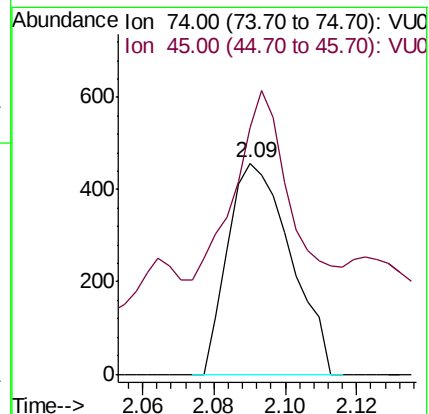
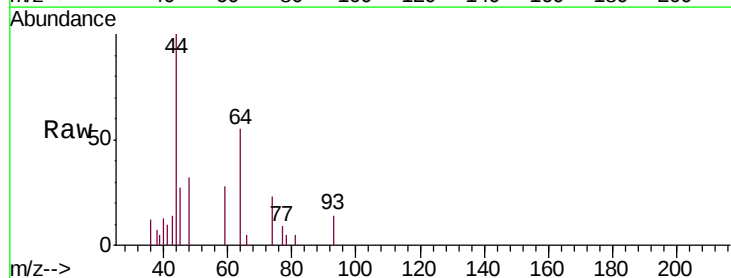
Acq: 28 Aug 2019 04:39

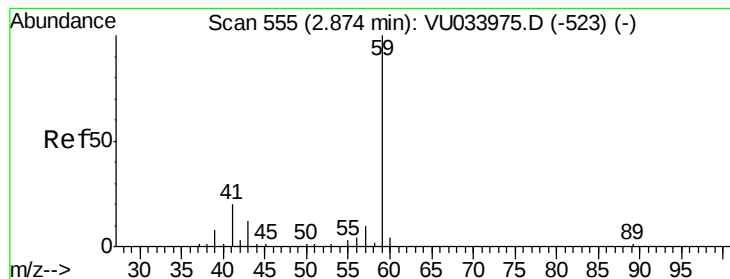
Tgt Ion: 74 Resp: 556

Ion Ratio Lower Upper

74 100

45 72.5 42.8 128.4





#11

Tert butyl alcohol

Concen: 3.284 ug/l

RT: 2.83 min Scan# 540

Delta R.T. -0.05 min

Lab File: VU034003.D

Acq: 28 Aug 2019 04:39

Instrument :

MSVOA_U

ClientSampleId :

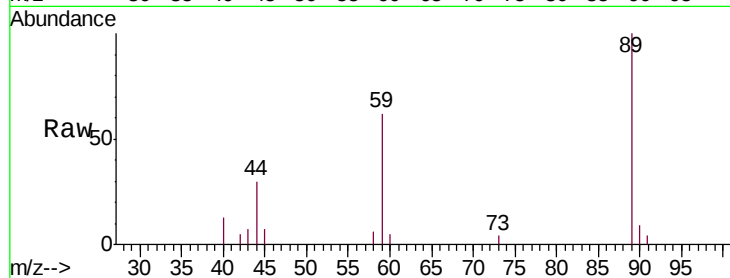
T2-S-B4-(0)

Tgt Ion: 59 Resp: 4235

Ion Ratio Lower Upper

59 100

57 0.0 3.9 5.9#



Abundance Ion 59.00 (58.70 to 59.70): VU033975.D (-523) (-)

Ion 57.00 (56.70 to 57.70): VU033975.D (-523) (-)

2.83

2000

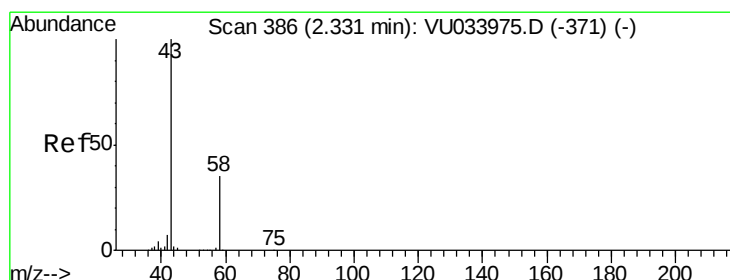
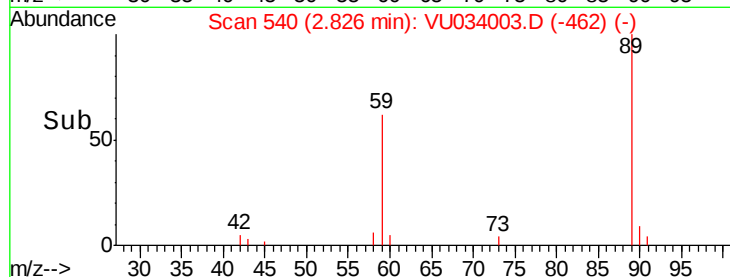
1500

1000

500

0

Time-->



#16

Acetone

Concen: 5.069 ug/l

RT: 2.31 min Scan# 380

Delta R.T. -0.02 min

Lab File: VU034003.D

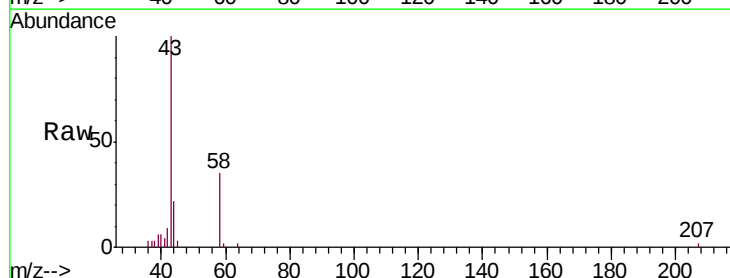
Acq: 28 Aug 2019 04:39

Tgt Ion: 43 Resp: 12081

Ion Ratio Lower Upper

43 100

58 35.5 28.0 42.0



Abundance Ion 43.00 (42.70 to 43.70): VU033975.D (-371) (-)

Ion 58.00 (57.70 to 58.70): VU033975.D (-371) (-)

2.31

8000

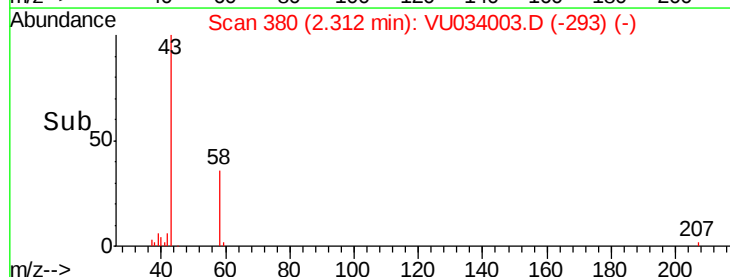
6000

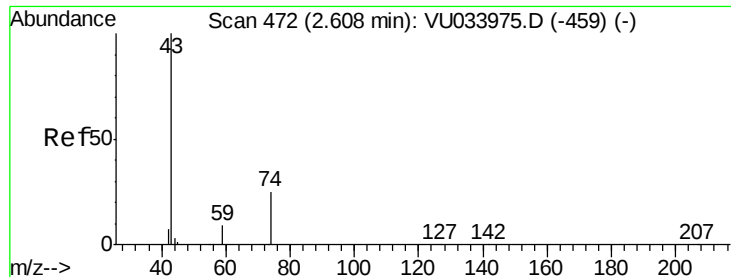
4000

2000

0

Time-->

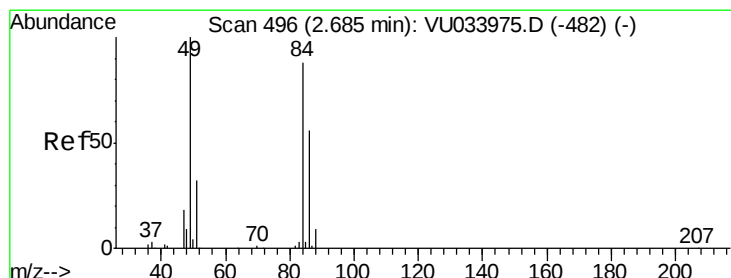
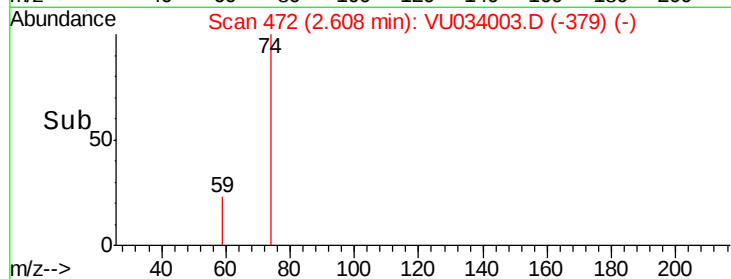
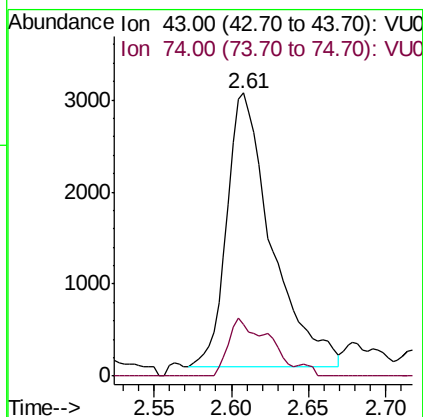
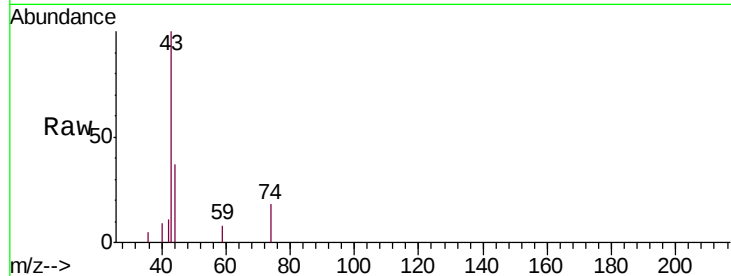




#18
Methyl Acetate
Concen: 1.014 ug/l
RT: 2.61 min Scan# 472
Delta R.T. 0.00 min
Lab File: VU034003.D
Acq: 28 Aug 2019 04:39

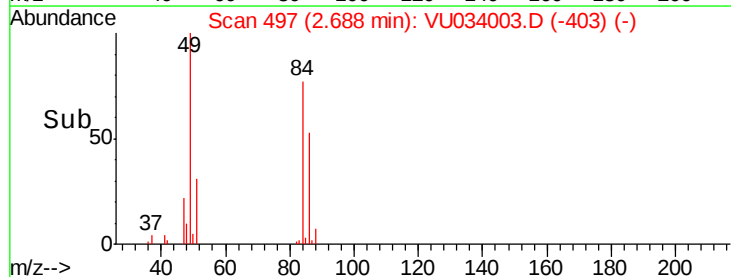
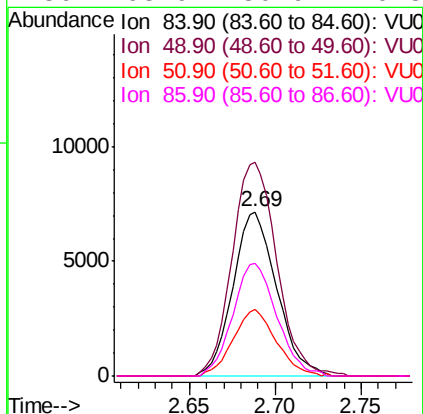
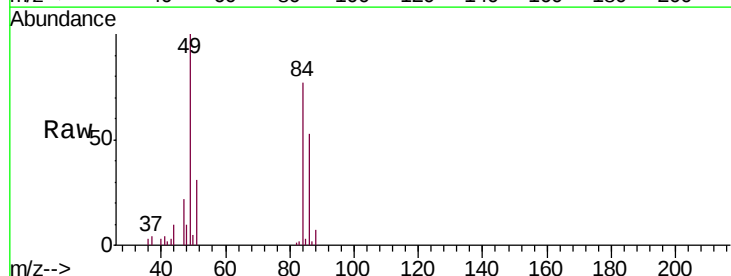
Instrument :
MSVOA_U
ClientSampleId :
T2-S-B4-(0)

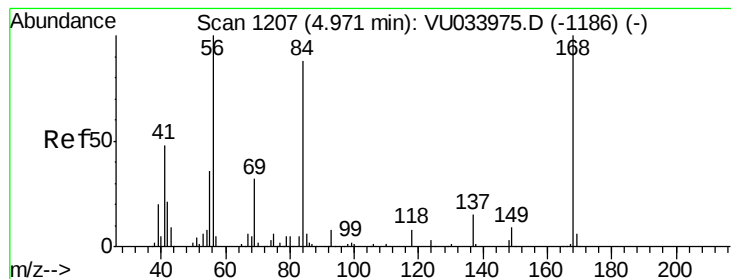
Tgt Ion: 43 Resp: 5954
Ion Ratio Lower Upper
43 100
74 18.8 20.5 30.7#



#20
Methylene Chloride
Concen: 2.495 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034003.D
Acq: 28 Aug 2019 04:39

Tgt Ion: 84 Resp: 12616
Ion Ratio Lower Upper
84 100
49 130.1 91.3 136.9
51 40.2 28.9 43.3
86 68.9 50.9 76.3





#31

Cyclohexane

Concen: 1.310 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VU034003.D

Acq: 28 Aug 2019 04:39

Instrument :

MSVOA_U

ClientSampleId :

T2-S-B4-(0)

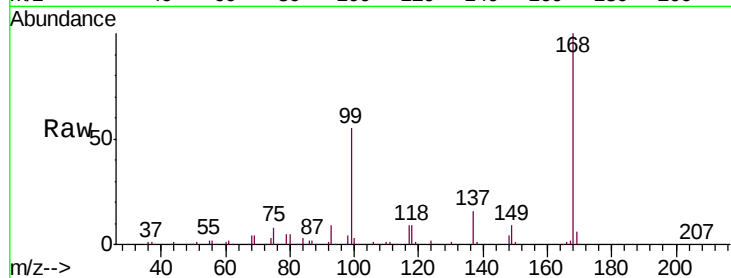
Tgt Ion: 56 Resp: 9616

Ion Ratio Lower Upper

56 100

69 175.4 25.9 38.9#

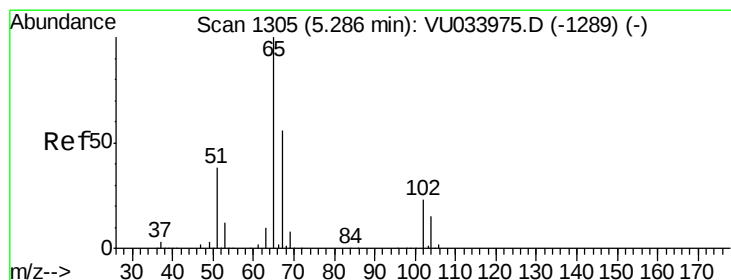
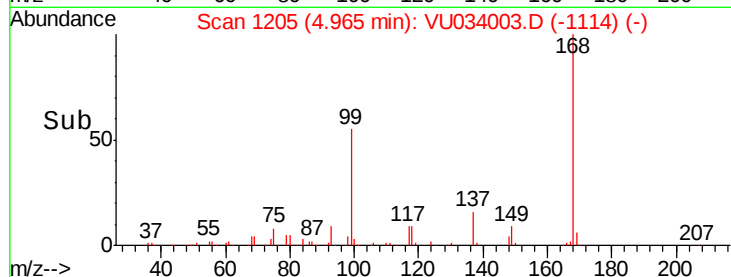
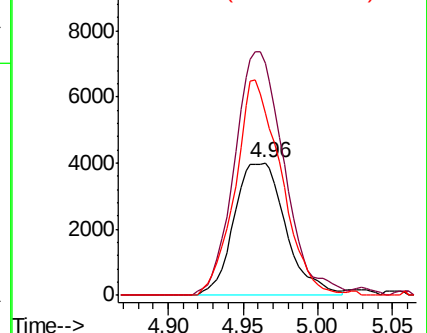
84 137.2 70.4 105.6#



Abundance Ion 56.00 (55.70 to 56.70): VU033975.D (-1186) (-)

Ion 69.00 (68.70 to 69.70): VU033975.D (-1186) (-)

Ion 84.00 (83.70 to 84.70): VU033975.D (-1186) (-)



#33

1,2-Dichloroethane-d4

Concen: 61.565 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU034003.D

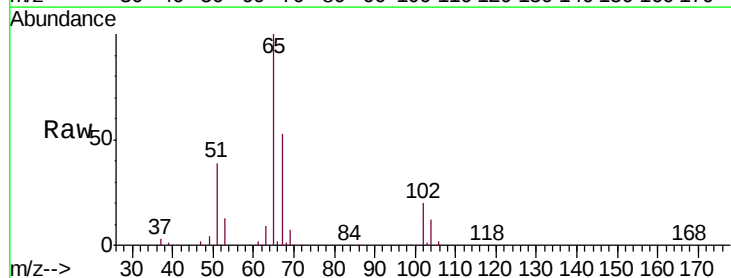
Acq: 28 Aug 2019 04:39

Tgt Ion: 65 Resp: 306538

Ion Ratio Lower Upper

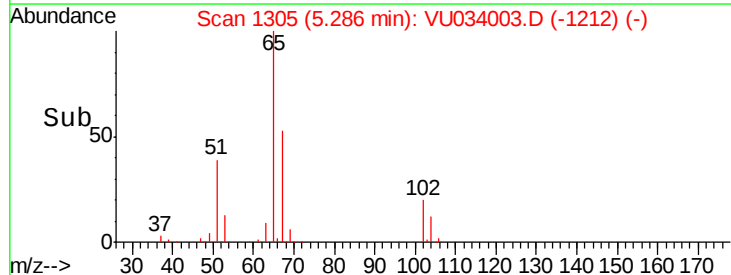
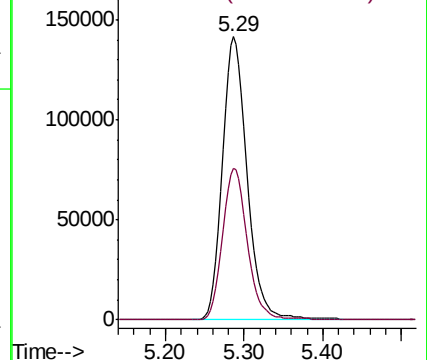
65 100

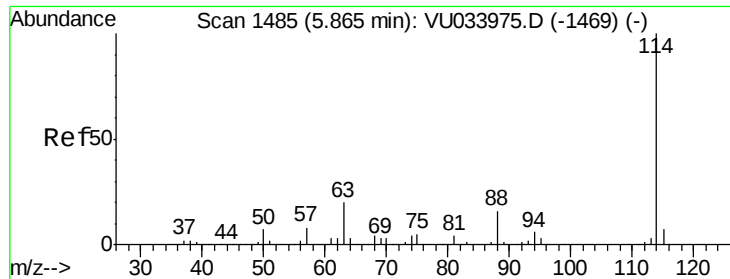
67 53.8 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VU033975.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU033975.D (-1289) (-)

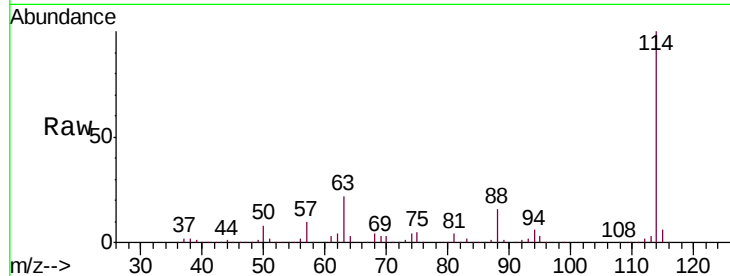




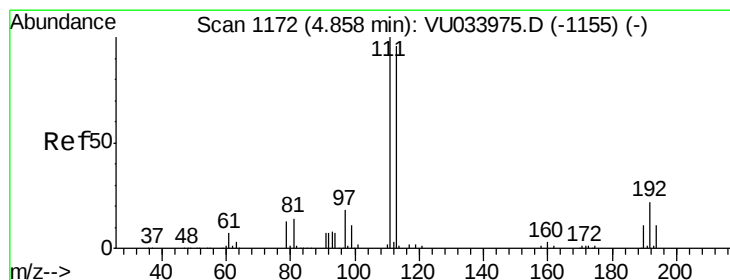
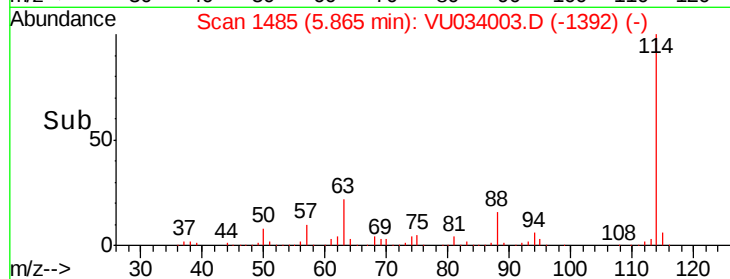
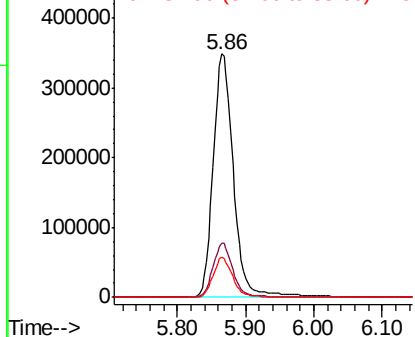
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034003.D
 Acq: 28 Aug 2019 04:39

Instrument :
 MSVOA_U
 ClientSampleId :
 T2-S-B4-(0)

Tgt Ion:114 Resp: 723028
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 39.0
 88 16.4 0.0 31.2

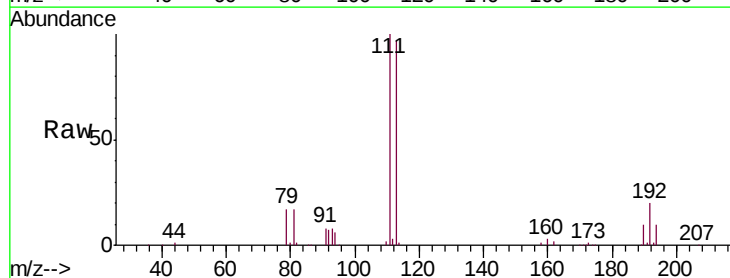


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

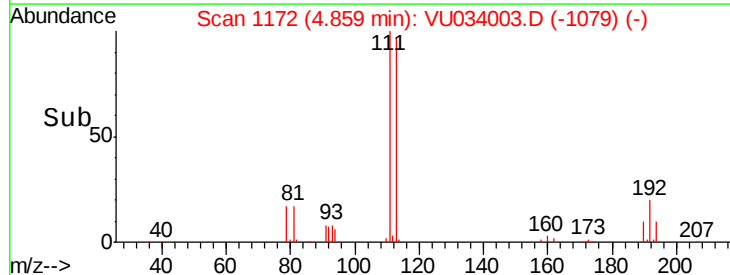
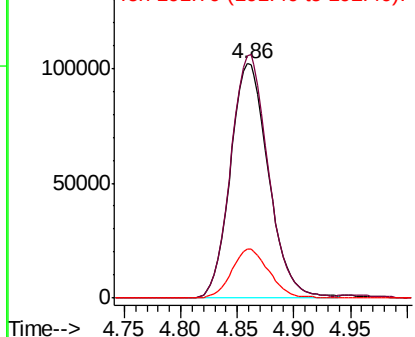


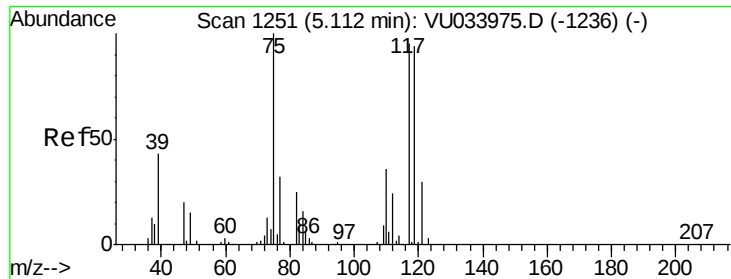
#35
 Dibromofluoromethane
 Concen: 49.337 ug/l
 RT: 4.86 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VU034003.D
 Acq: 28 Aug 2019 04:39

Tgt Ion:113 Resp: 239787
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.7 122.5
 192 20.5 18.6 27.8



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: 5.473 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.15 min

Lab File: VU034003.D

Acq: 28 Aug 2019 04:39

Instrument :

MSVOA_U

ClientSampleId :

T2-S-B4-(0)

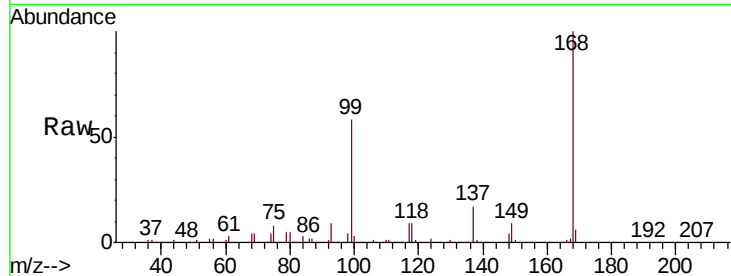
Tgt Ion: 75 Resp: 36241

Ion Ratio Lower Upper

75 100

110 8.3 18.2 54.6#

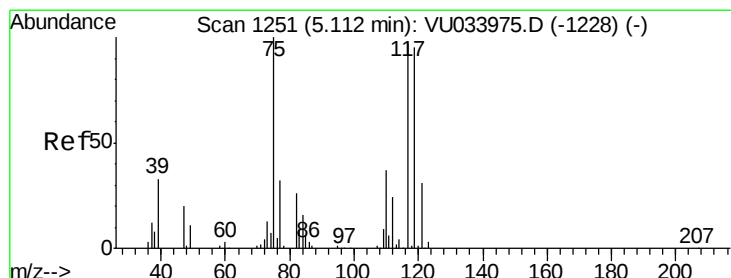
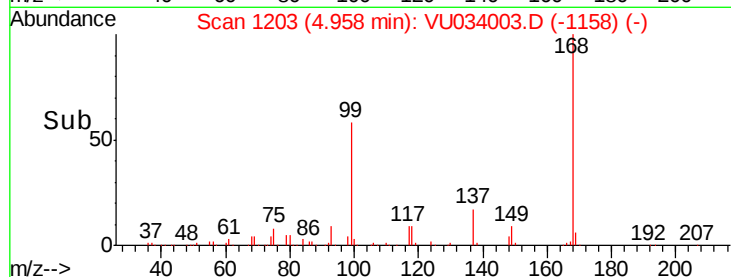
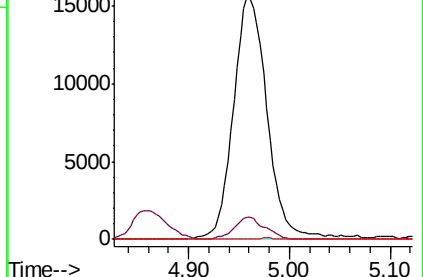
77 0.2 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VU033975.D (-1236) (-)

Ion 109.90 (109.60 to 110.60): VU033975.D (-1236) (-)

Ion 76.90 (76.60 to 77.60): VU033975.D (-1236) (-)



#38

Carbon Tetrachloride

Concen: 6.469 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034003.D

Acq: 28 Aug 2019 04:39

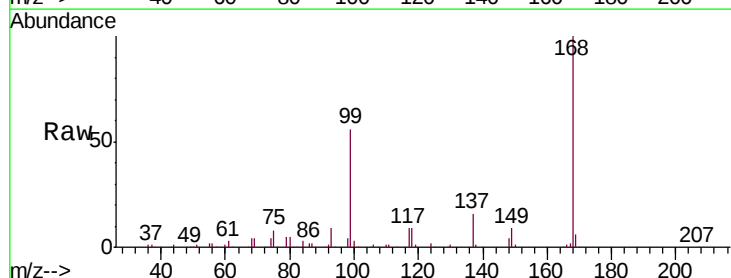
Tgt Ion: 117 Resp: 43660

Ion Ratio Lower Upper

117 100

119 5.9 78.4 117.6#

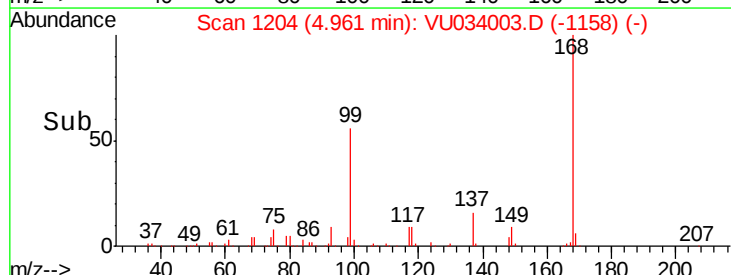
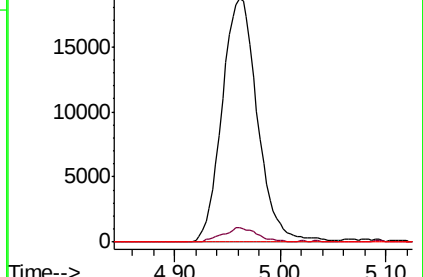
121 0.0 25.4 38.2#

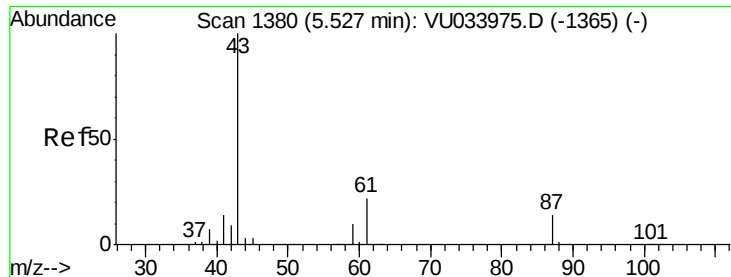


Abundance Ion 116.80 (116.50 to 117.50): VU033975.D (-1228) (-)

Ion 118.80 (118.50 to 119.50): VU033975.D (-1228) (-)

Ion 120.80 (120.50 to 121.50): VU033975.D (-1228) (-)

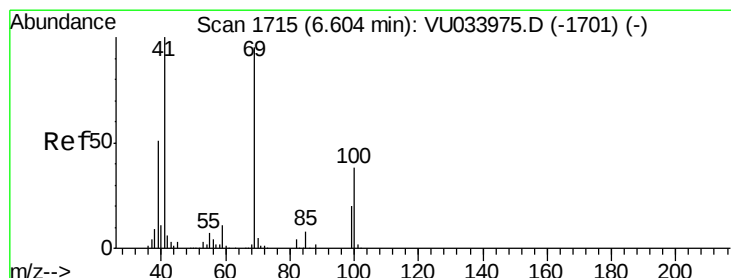
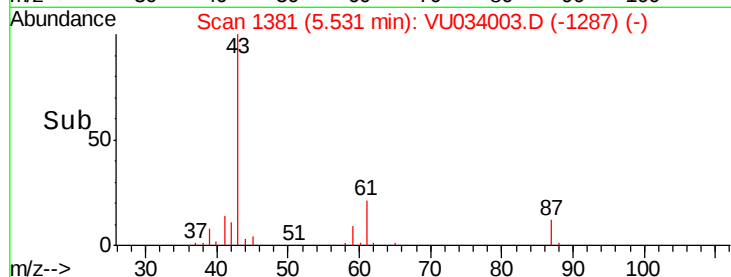
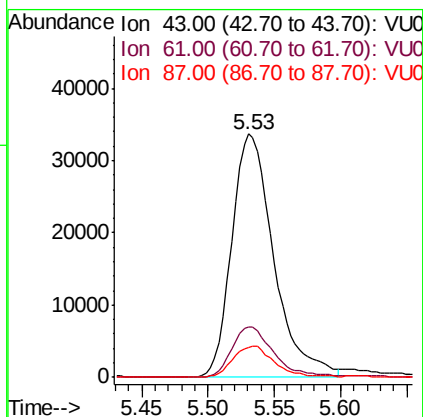
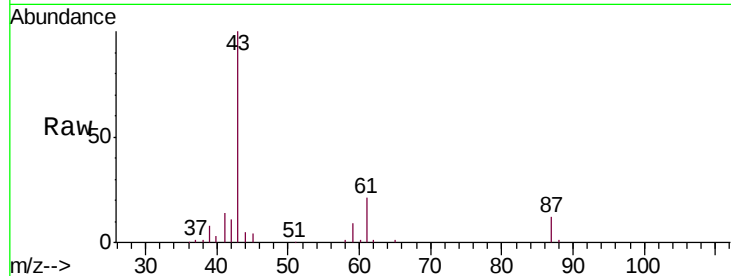




#43
Isopropyl Acetate
Concen: 7.303 ug/l
RT: 5.53 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VU034003.D
Acq: 28 Aug 2019 04:39

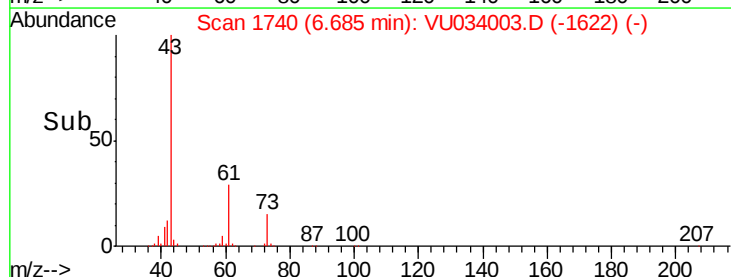
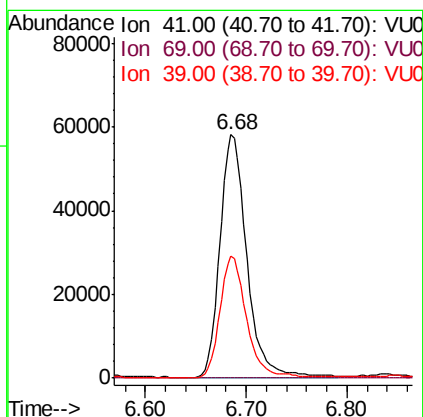
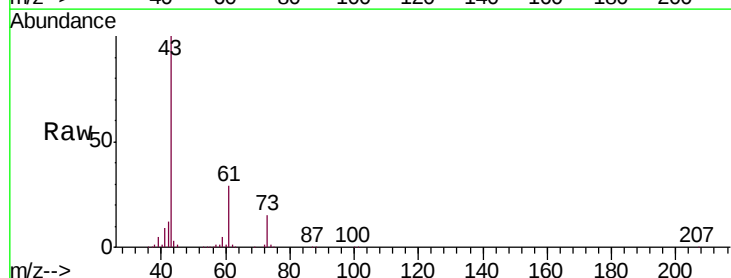
Instrument :
MSVOA_U
ClientSampleId :
T2-S-B4-(0)

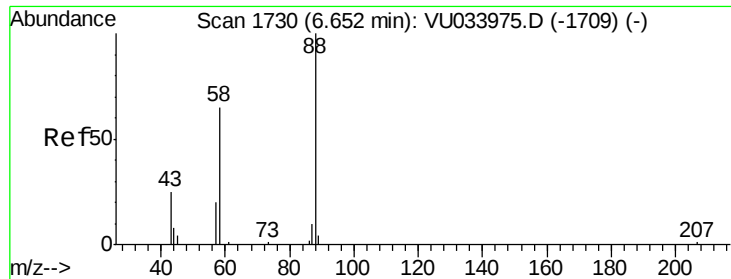
Tgt Ion: 43 Resp: 74375
Ion Ratio Lower Upper
43 100
61 20.9 17.8 26.8
87 12.5 11.9 17.9



#48
Methyl methacrylate
Concen: 22.322 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.08 min
Lab File: VU034003.D
Acq: 28 Aug 2019 04:39

Tgt Ion: 41 Resp: 108088
Ion Ratio Lower Upper
41 100
69 0.2 76.3 114.5#
39 49.9 41.1 61.7





#49

1,4-Dioxane

Concen: 0.775 ug/l

RT: 6.68 min Scan# 1739

Delta R.T. 0.03 min

Lab File: VU034003.D

Acq: 28 Aug 2019 04:39

Instrument :

MSVOA_U

ClientSampleId :

T2-S-B4-(0)

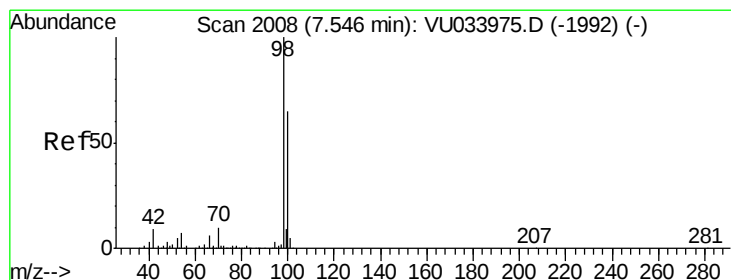
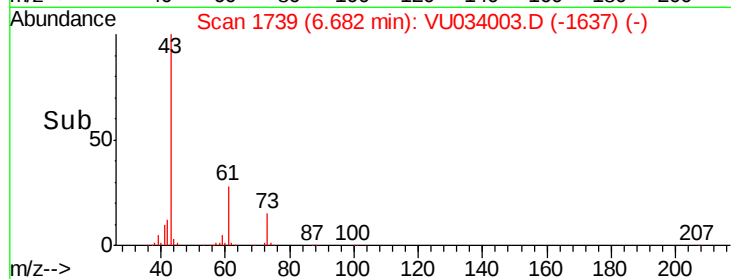
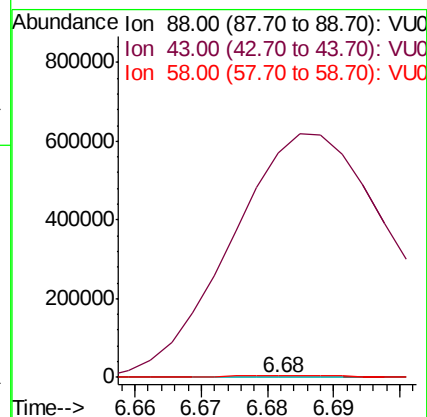
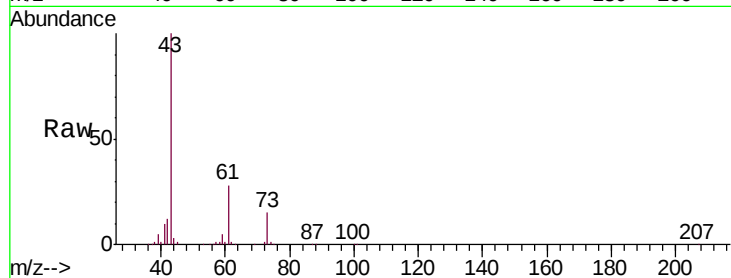
Tgt Ion: 88 Resp: 103

Ion Ratio Lower Upper

88 100

43 1100254.4 0.0 0.0#

58 6488.3 56.6 85.0#



#50

Toluene-d8

Concen: 52.009 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034003.D

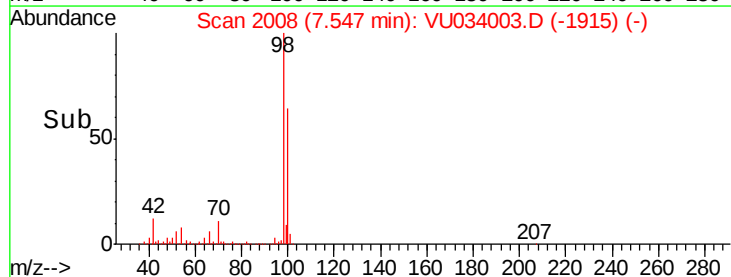
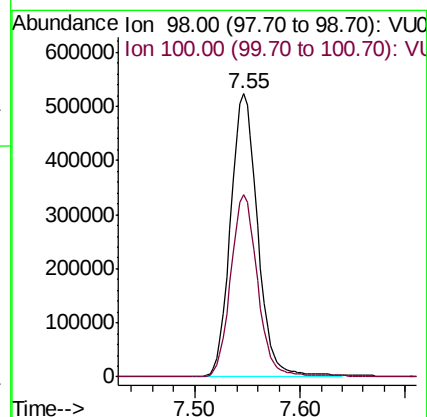
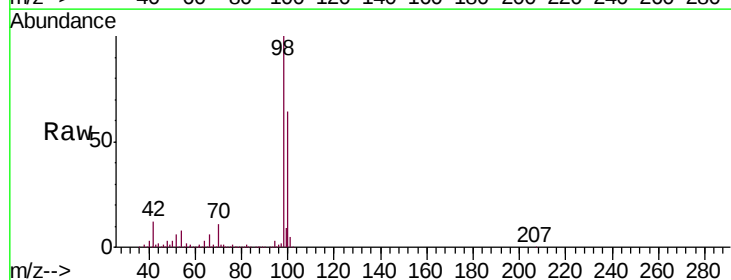
Acq: 28 Aug 2019 04:39

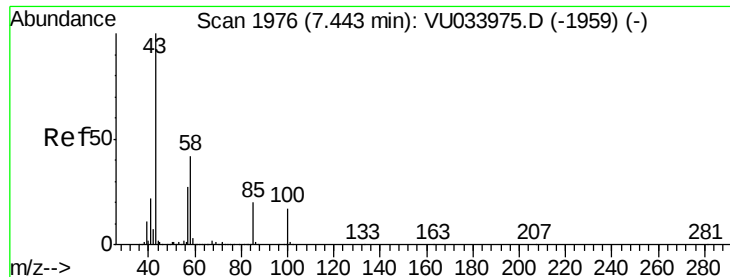
Tgt Ion: 98 Resp: 932335

Ion Ratio Lower Upper

98 100

100 64.1 51.5 77.3

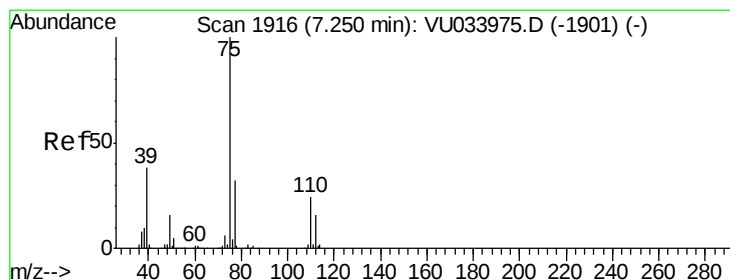
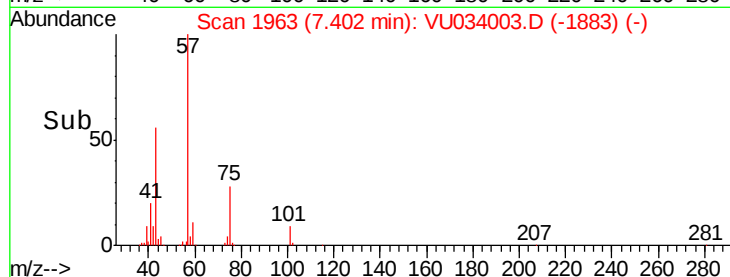
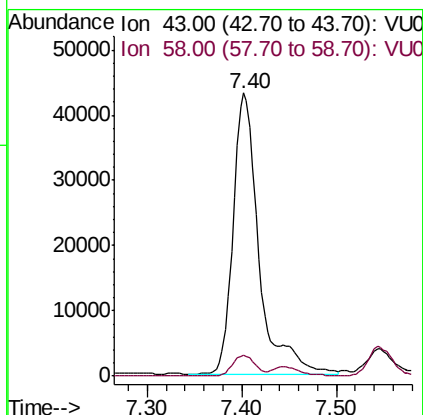
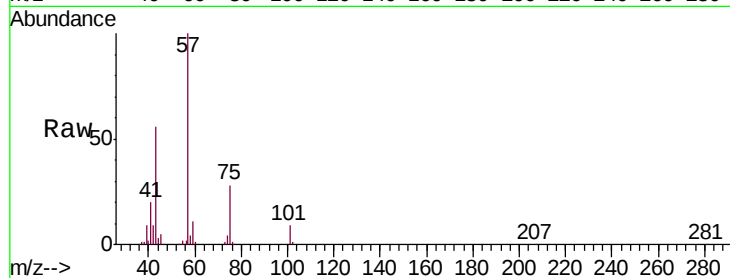




#51
 4-Methyl-2-Pentanone
 Concen: 11.635 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034003.D
 Acq: 28 Aug 2019 04:39

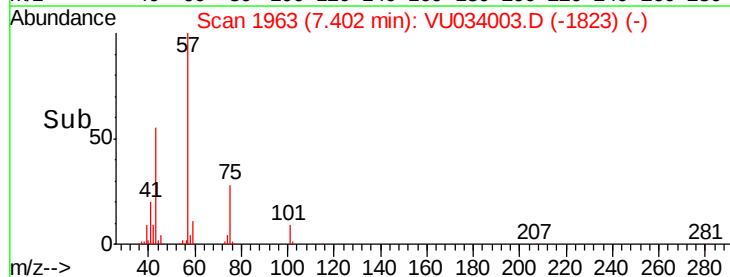
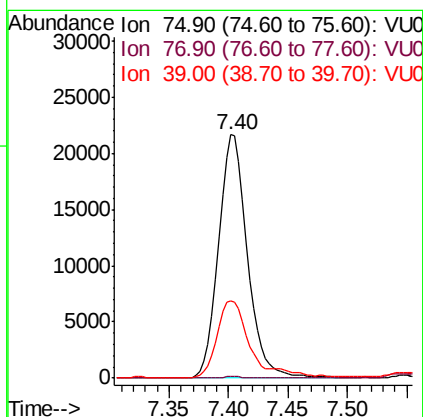
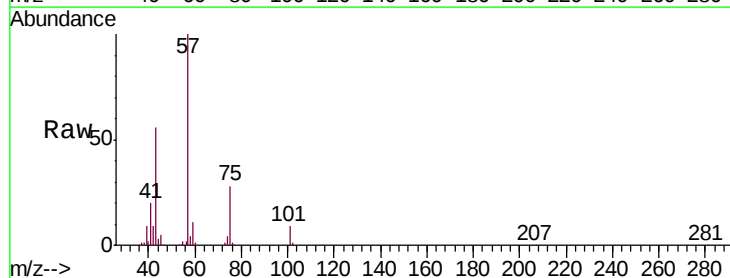
Instrument :
 MSVOA_U
 ClientSampleId :
 T2-S-B4-(0)

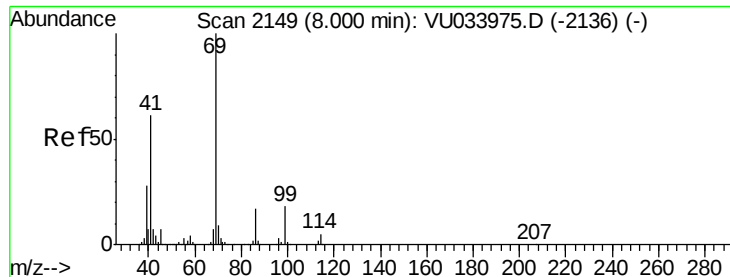
Tgt Ion: 43 Resp: 81700
 Ion Ratio Lower Upper
 43 100
 58 6.4 33.6 50.4#



#54
 cis-1,3-Dichloropropene
 Concen: 4.465 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034003.D
 Acq: 28 Aug 2019 04:39

Tgt Ion: 75 Resp: 36417
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.6 38.4#
 39 31.8 30.7 46.1





#56

Ethyl methacrylate

Concen: 2.557 ug/l

RT: 7.89 min Scan# 2116

Delta R.T. -0.11 min

Lab File: VU034003.D

Acq: 28 Aug 2019 04:39

Instrument :

MSVOA_U

ClientSampleId :

T2-S-B4-(0)

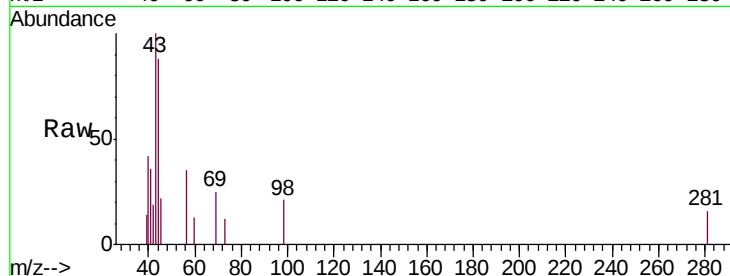
Tgt Ion: 69 Resp: 373

Ion Ratio Lower Upper

69 100

41 0.0 48.6 72.8#

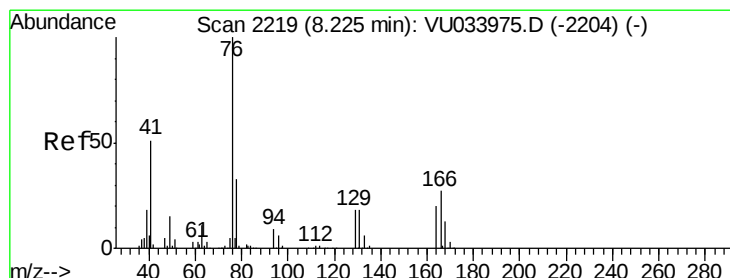
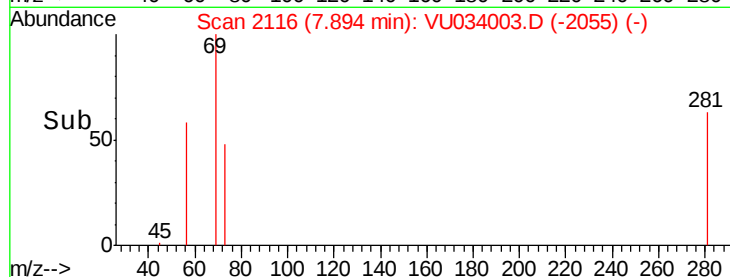
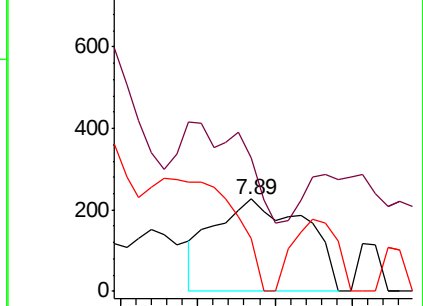
39 0.0 22.4 33.6#



Abundance Ion 69.00 (68.70 to 69.70): VU033975.D (-2136) (-)

Ion 41.00 (40.70 to 41.70): VU033975.D (-2136) (-)

Ion 39.00 (38.70 to 39.70): VU033975.D (-2136) (-)



#57

1,3-Dichloropropane

Concen: 0.649 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.17 min

Lab File: VU034003.D

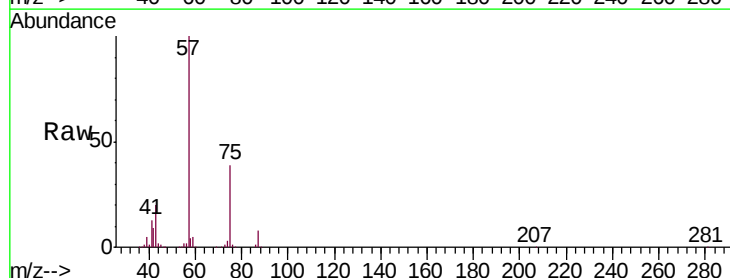
Acq: 28 Aug 2019 04:39

Tgt Ion: 76 Resp: 5547

Ion Ratio Lower Upper

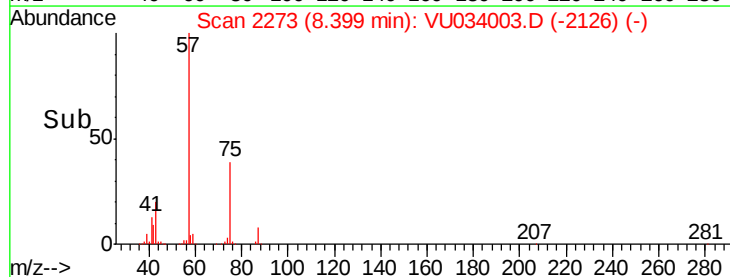
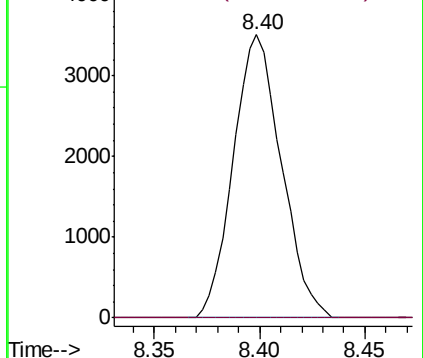
76 100

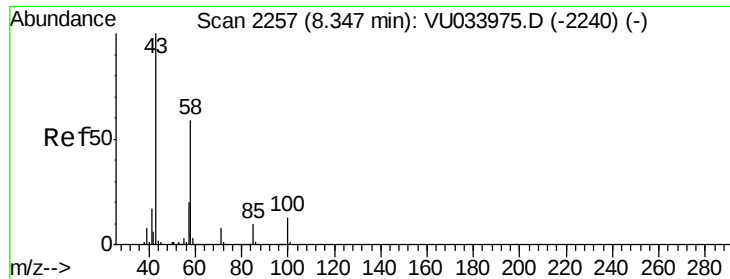
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VU033975.D (-2204) (-)

Ion 77.90 (77.60 to 78.60): VU033975.D (-2204) (-)

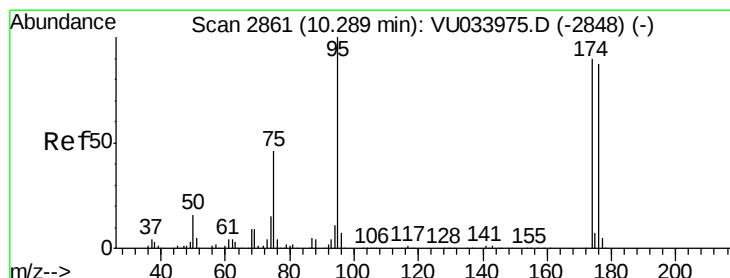
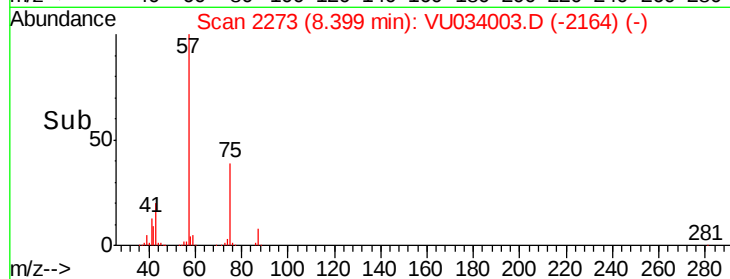
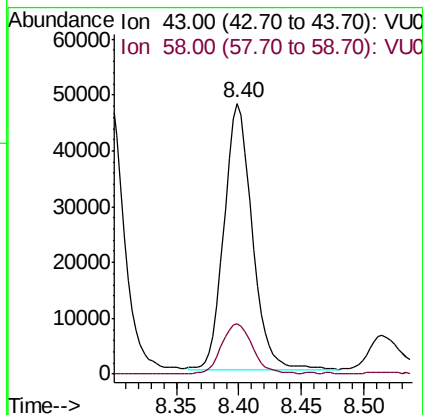
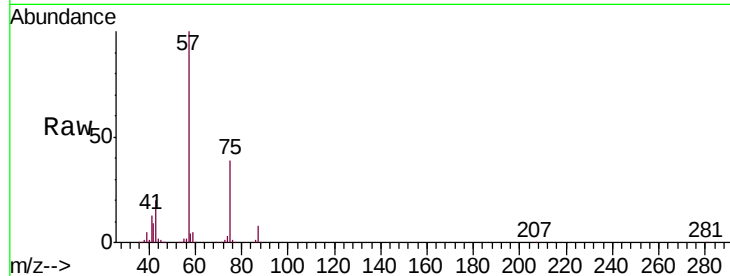




#59
2-Hexanone
Concen: 13.673 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034003.D
Acq: 28 Aug 2019 04:39

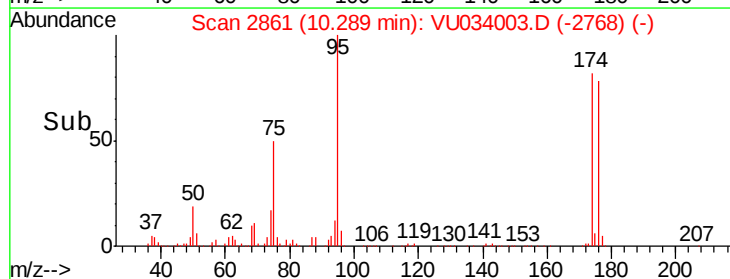
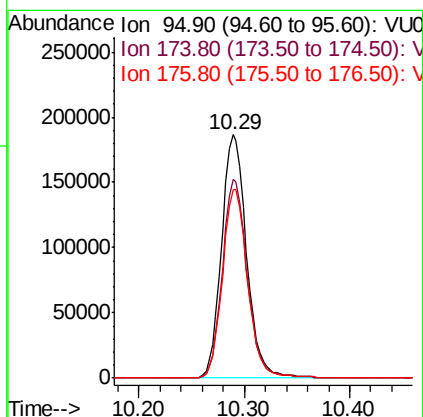
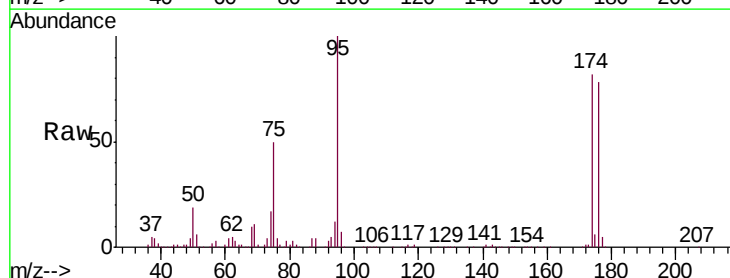
Instrument :
MSVOA_U
ClientSampleId :
T2-S-B4-(0)

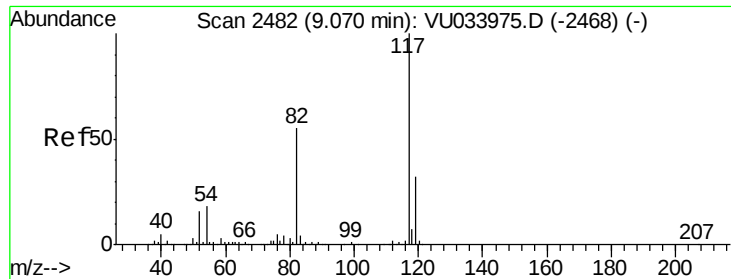
Tgt Ion: 43 Resp: 73798
Ion Ratio Lower Upper
43 100
58 21.2 29.5 88.6#



#62
4-Bromofluorobenzene
Concen: 44.634 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034003.D
Acq: 28 Aug 2019 04:39

Tgt Ion: 95 Resp: 306929
Ion Ratio Lower Upper
95 100
174 81.4 0.0 183.8
176 77.9 0.0 176.4

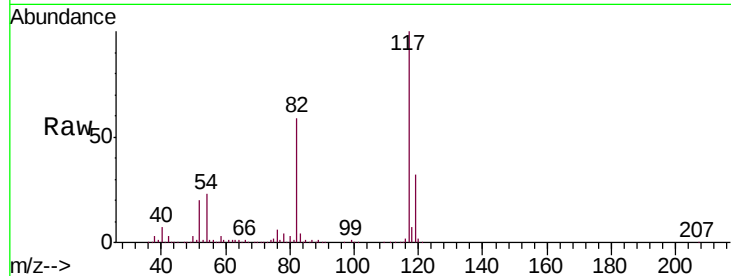




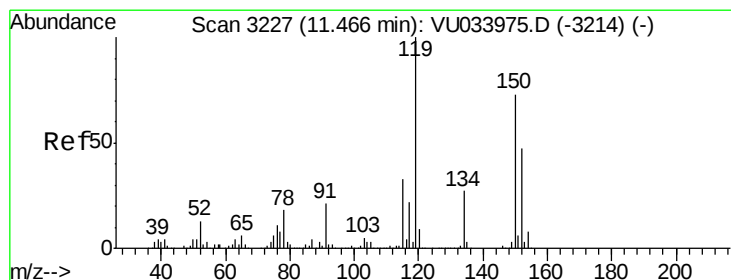
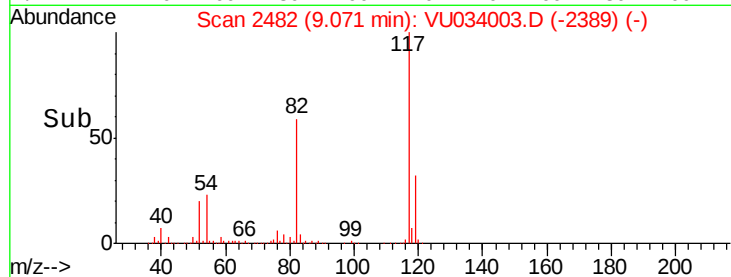
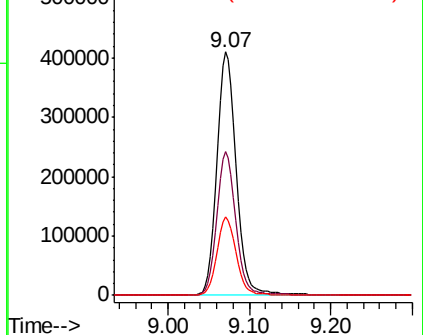
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034003.D
Acq: 28 Aug 2019 04:39

Instrument :
MSVOA_U
ClientSampleId :
T2-S-B4-(0)

Tgt Ion:117 Resp: 694273
Ion Ratio Lower Upper
117 100
82 58.8 43.8 65.8
119 32.0 25.7 38.5

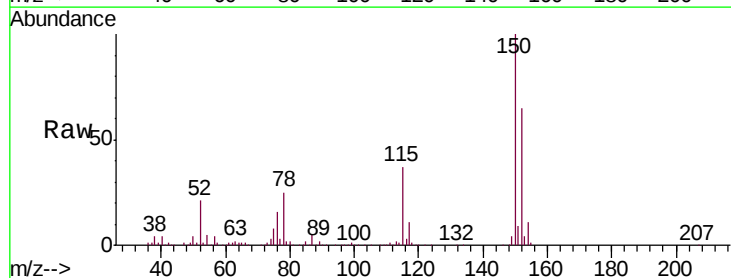


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

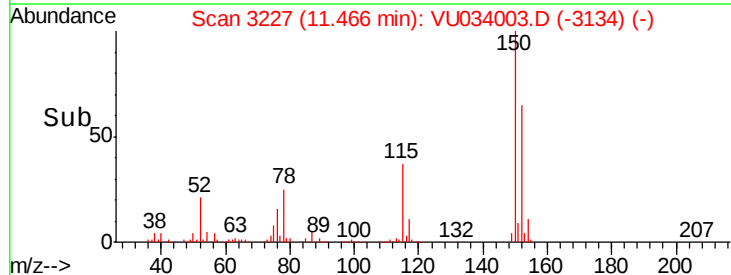
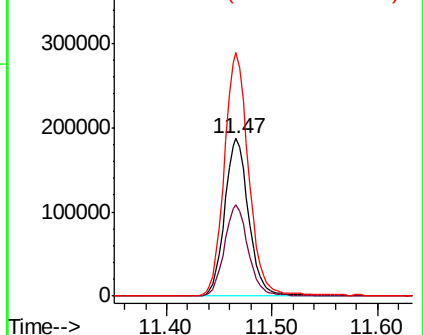


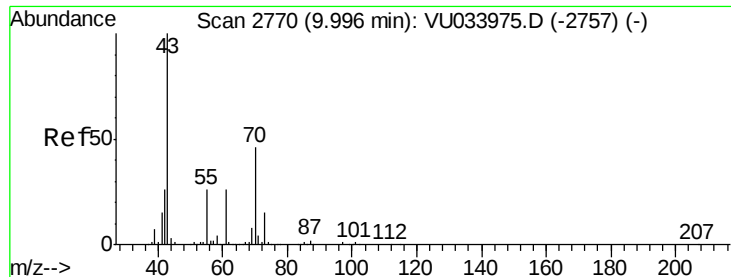
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.47 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VU034003.D
Acq: 28 Aug 2019 04:39

Tgt Ion:152 Resp: 295379
Ion Ratio Lower Upper
152 100
115 57.4 38.6 115.7
150 155.7 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.308 ug/l

RT: 9.92 min Scan# 2747

Delta R.T. -0.07 min

Lab File: VU034003.D

Acq: 28 Aug 2019 04:39

Instrument :

MSVOA_U

ClientSampleId :

T2-S-B4-(0)

Tgt Ion: 43 Resp: 2196

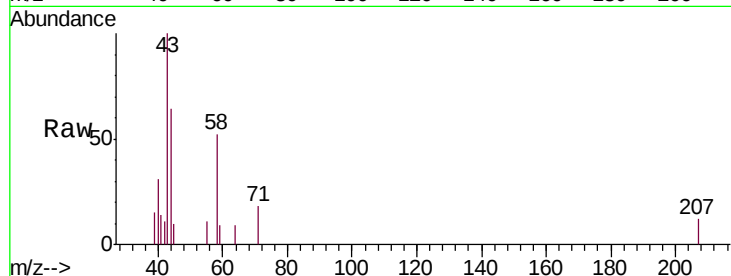
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 6.7 21.0 31.4#

61 0.0 20.9 31.3#

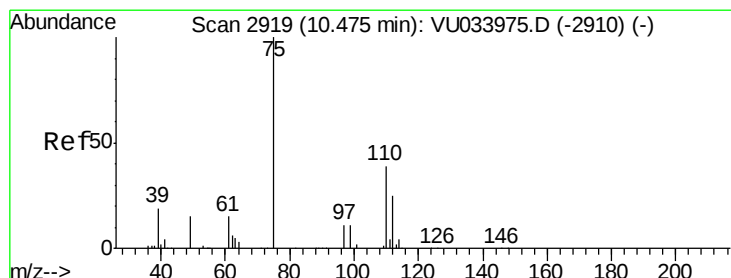
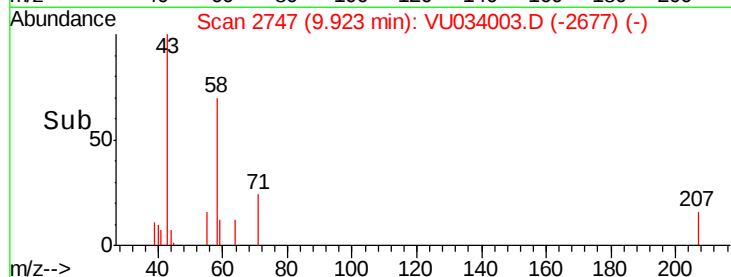
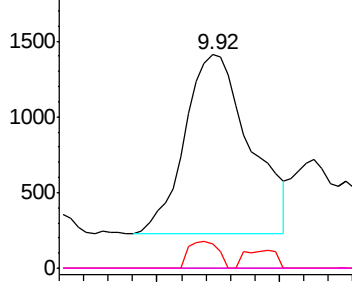


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0



#76

1,2,3-Trichloropropane

Concen: 25.740 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034003.D

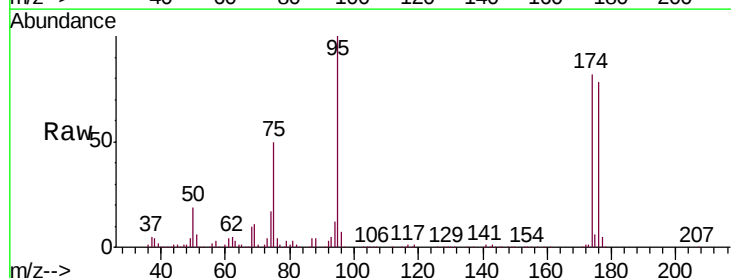
Acq: 28 Aug 2019 04:39

Tgt Ion: 75 Resp: 151488

Ion Ratio Lower Upper

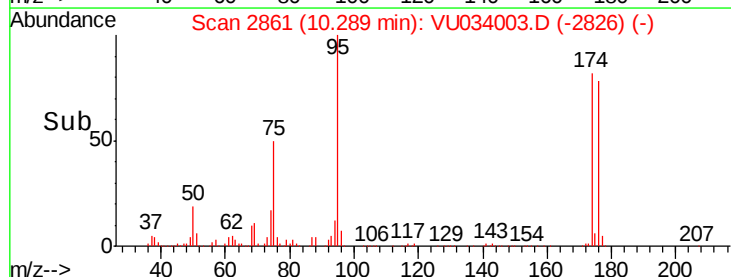
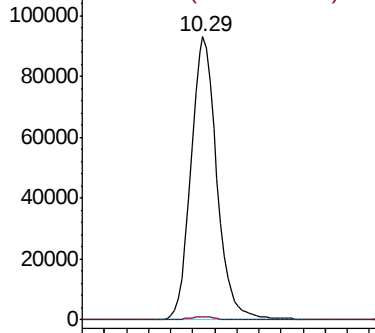
75 100

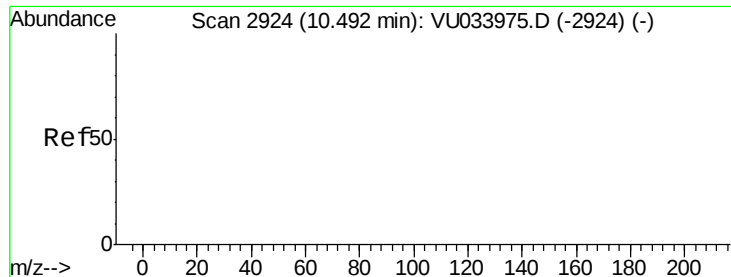
77 1.2 21.0 63.0#



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: 73.724 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034003.D

Acq: 28 Aug 2019 04:39

Instrument :

MSVOA_U

ClientSampleId :

T2-S-B4-(0)

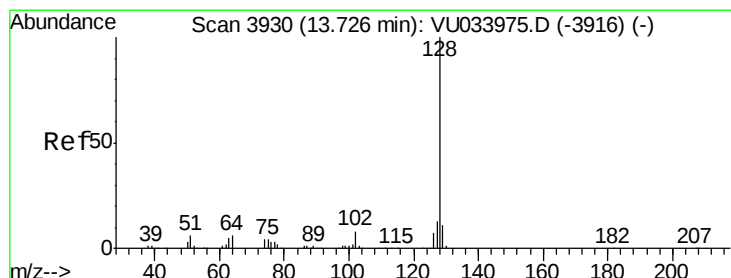
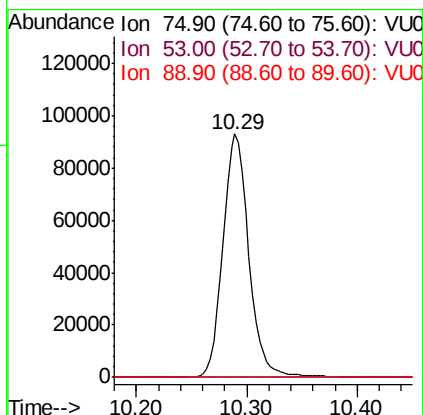
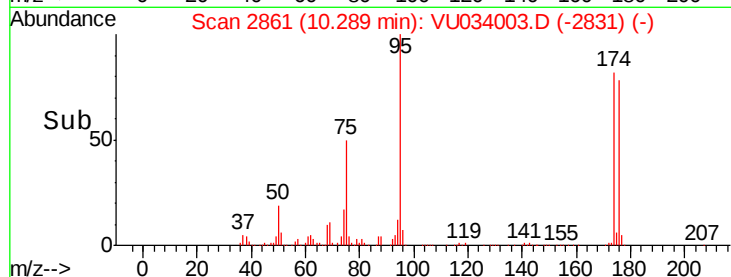
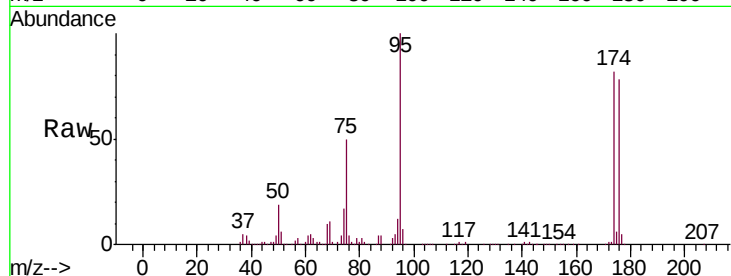
Tgt Ion: 75 Resp: 151488

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

89 0.0 0.0 0.0



#95

Naphthalene

Concen: 2.087 ug/l

RT: 13.82 min Scan# 3958

Delta R.T. 0.09 min

Lab File: VU034003.D

Acq: 28 Aug 2019 04:39

Tgt Ion: 128 Resp: 73

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.5 12.7#

