

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090519\
 Data File : VU034264.D
 Acq On : 04 Sep 2019 17:41
 Operator : JC/SP
 Sample : K4547-36
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T12-1-(0)

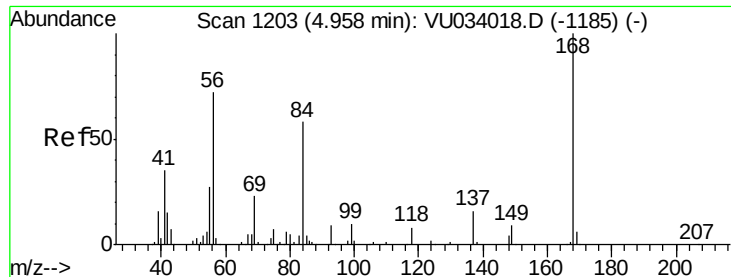
Quant Time: Sep 05 03:40:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	428217	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	680976	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	684858	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	334263	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	257362	46.90	ug/l	0.00
Spiked Amount			Recovery	=	93.80%	
35) Dibromofluoromethane	4.86	113	222171	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	
50) Toluene-d8	7.55	98	883871	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
62) 4-Bromofluorobenzene	10.29	95	309957	45.06	ug/l	0.00
Spiked Amount			Recovery	=	90.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	507	Below Cal	#	42
5) Bromomethane	1.63	94	573	Below Cal	#	76
11) Tert butyl alcohol	2.83	59	4301	3.399	ug/l #	73
16) Acetone	2.31	43	10581	3.779	ug/l	95
18) Methyl Acetate	2.61	43	3630	0.502	ug/l	99
20) Methylene Chloride	2.69	84	4707	0.888	ug/l #	82
25) 2-Butanone	4.29	43	833	0.214	ug/l	94
31) Cyclohexane	4.96	56	7107	0.867	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	29744	4.618	ug/l #	48
38) Carbon Tetrachloride	4.96	117	38027	6.116	ug/l #	17
43) Isopropyl Acetate	5.53	43	92691	8.447	ug/l	98
48) Methyl methacrylate	6.53	41	5585	1.055	ug/l #	14
49) 1,4-Dioxane	6.68	88	200	1.507	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	83661	11.040	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	41112	5.015	ug/l #	63
56) Ethyl methacrylate	8.14	69	2358	1.246	ug/l #	1
57) 1,3-Dichloropropane	8.40	76	6928	0.804	ug/l #	42
59) 2-Hexanone	8.40	43	88334	15.440	ug/l #	53
74) N-amyl acetate	9.92	43	2076	0.220	ug/l #	43
76) 1,2,3-Trichloropropane	10.29	75	144233	19.145	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	144233	64.466	ug/l #	100
95) Naphthalene	13.83	128	20	1.791	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034264.D

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MSVOA_U

ClientSampleId :

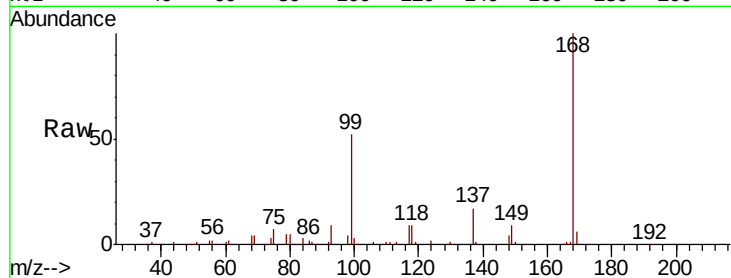
T12-1-(0)

Tgt Ion:168 Resp: 428217

Ion Ratio Lower Upper

168 100

99 52.1 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

200000

150000

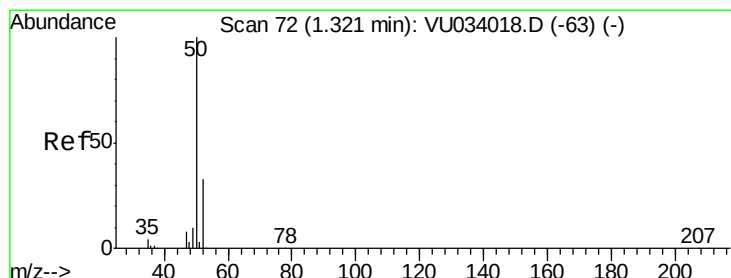
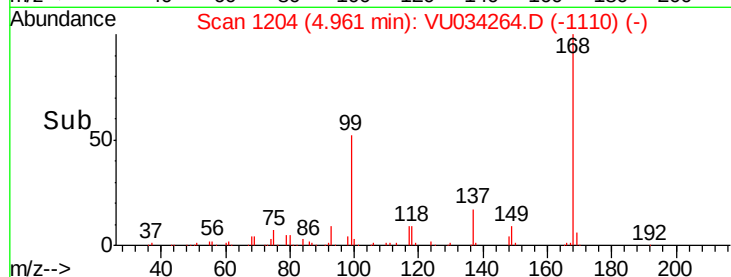
100000

50000

0

Time-->

4.80 4.90 5.00 5.10 5.20



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034264.D

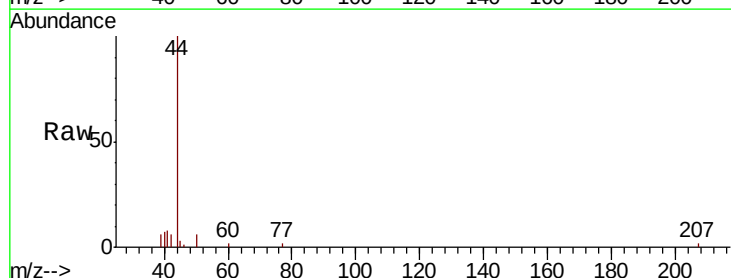
Acq: 04 Sep 2019 17:41

Tgt Ion: 50 Resp: 507

Ion Ratio Lower Upper

50 100

52 0.0 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034018.D (-63) (-)

1.33

400

300

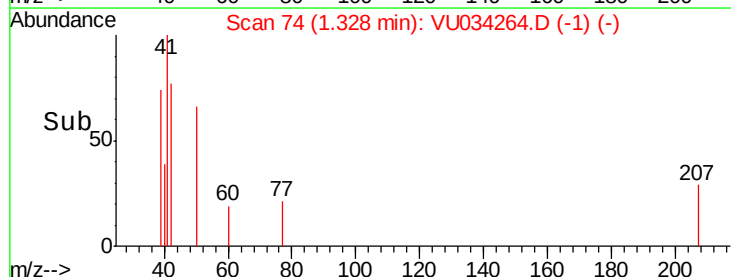
200

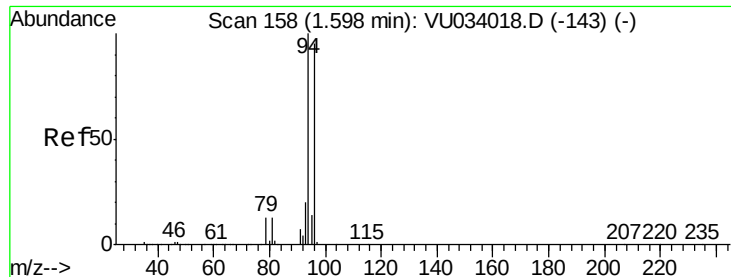
100

0

Time-->

1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.03 min

Lab File: VU034264.D

Acq: 04 Sep 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

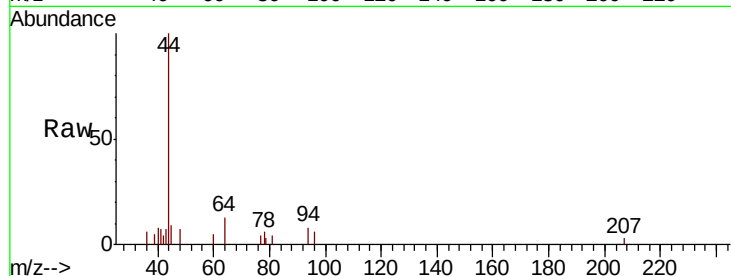
T12-1-(0)

Tgt Ion: 94 Resp: 573

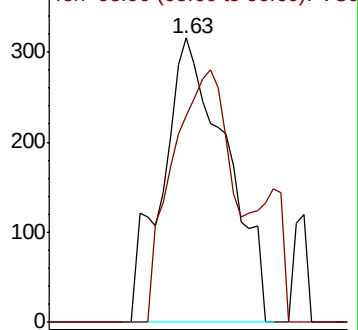
Ion Ratio Lower Upper

94 100

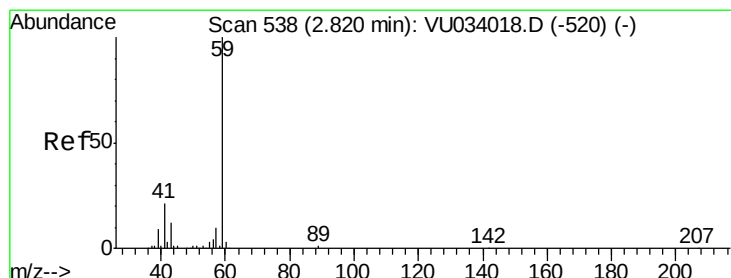
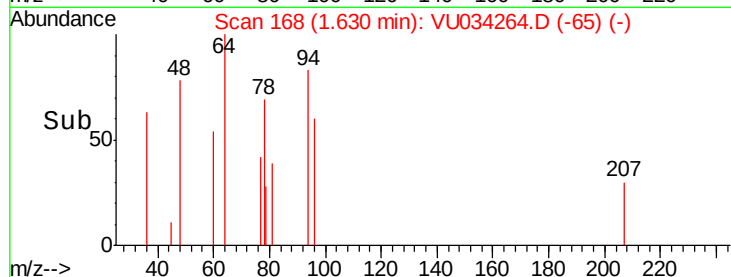
96 72.5 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034264.D (-168) (-)



Time-->



#11

Tert butyl alcohol

Concen: 3.399 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034264.D

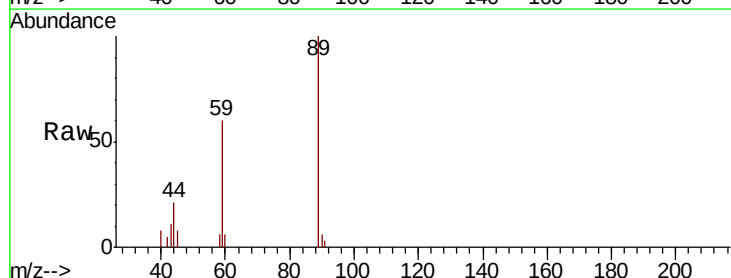
Acq: 04 Sep 2019 17:41

Tgt Ion: 59 Resp: 4301

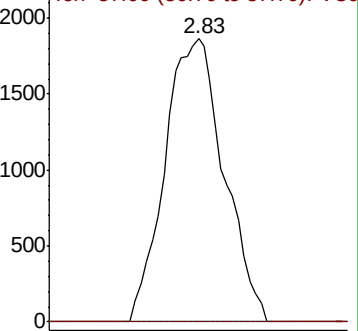
Ion Ratio Lower Upper

59 100

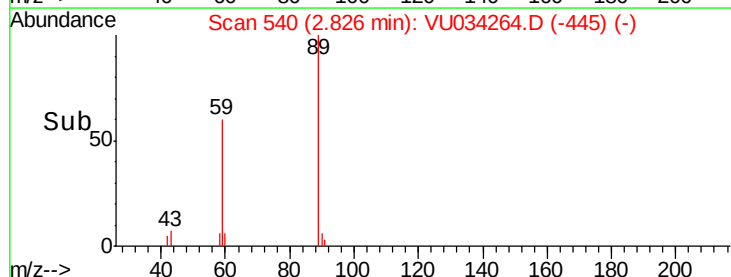
57 0.0 8.0 12.0#

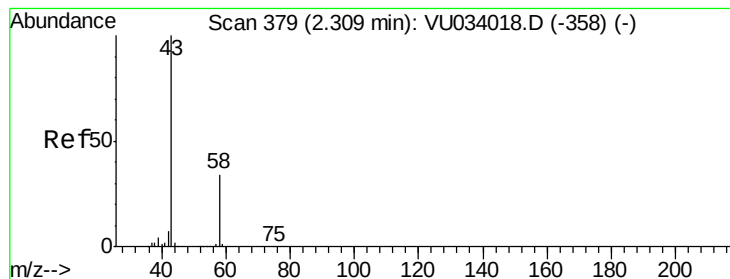


Abundance Ion 59.00 (58.70 to 59.70): VU034264.D (-540) (-)



Time-->





#16

Acetone

Concen: 3.779 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034264.D

Acq: 04 Sep 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

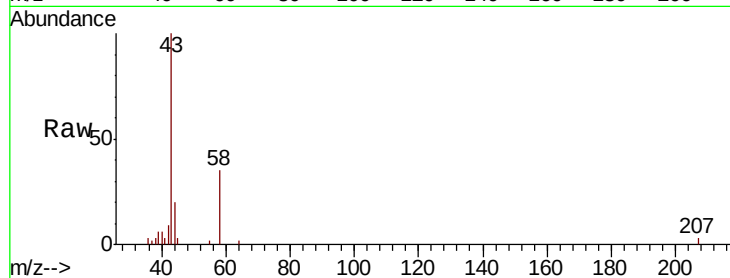
T12-1-(0)

Tgt Ion: 43 Resp: 10581

Ion Ratio Lower Upper

43 100

58 36.3 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034018.D (-358) (-)

2.31

6000

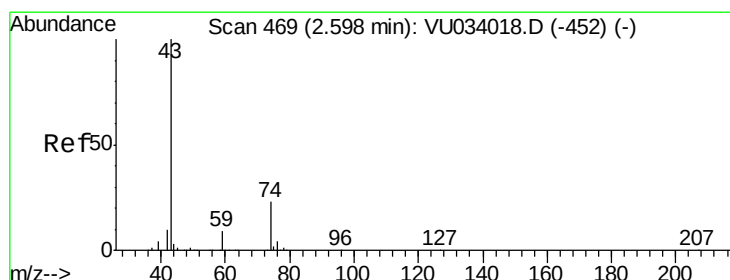
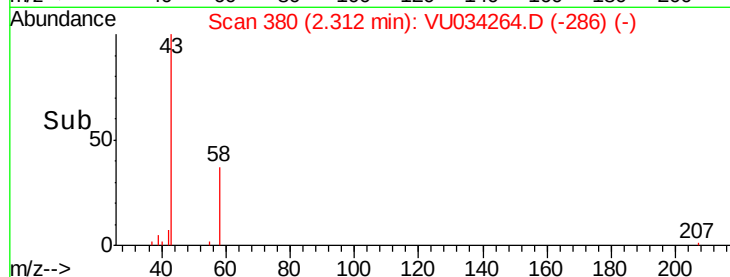
4000

2000

0

2.25 2.30 2.35 2.40

Time-->



#18

Methyl Acetate

Concen: 0.502 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034264.D

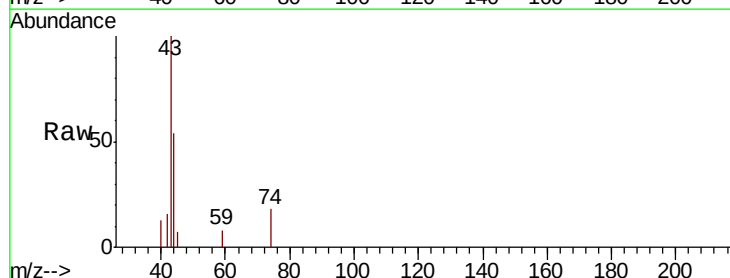
Acq: 04 Sep 2019 17:41

Tgt Ion: 43 Resp: 3630

Ion Ratio Lower Upper

43 100

74 24.3 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-452) (-)

Ion 74.00 (73.70 to 74.70): VU034018.D (-452) (-)

2.61

2000

1500

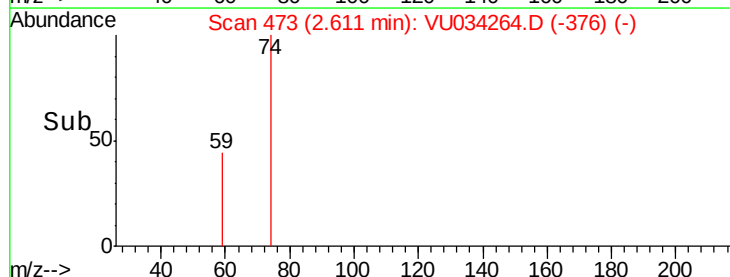
1000

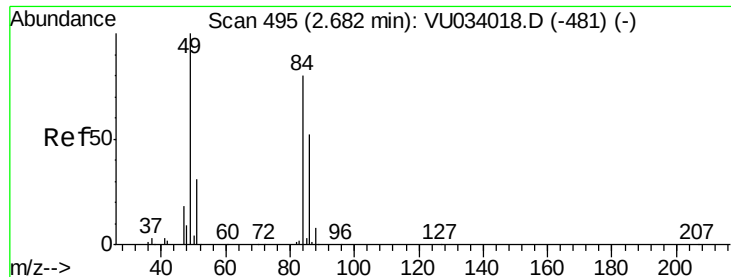
500

0

2.55 2.60 2.65 2.70

Time-->

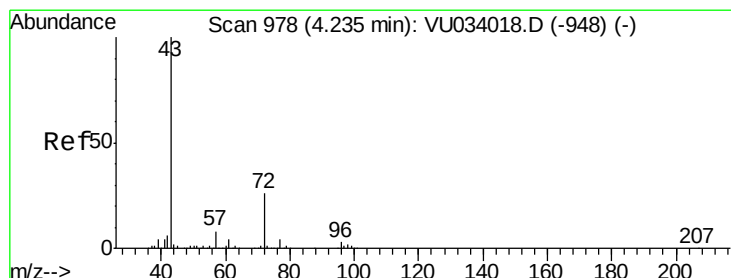
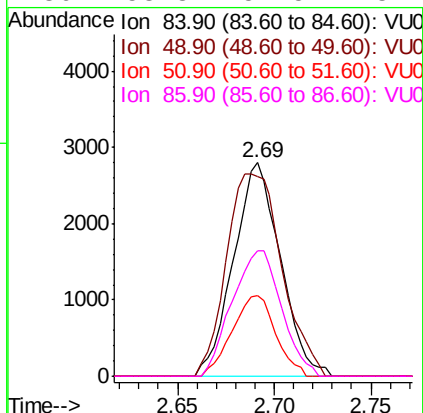
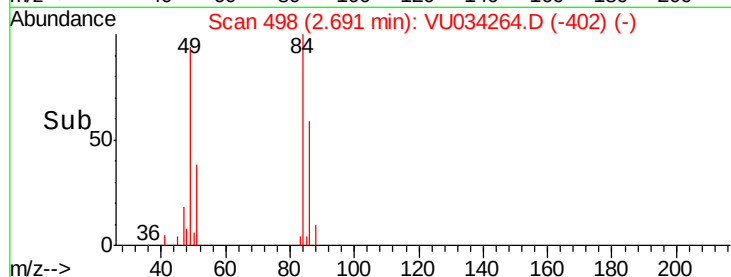
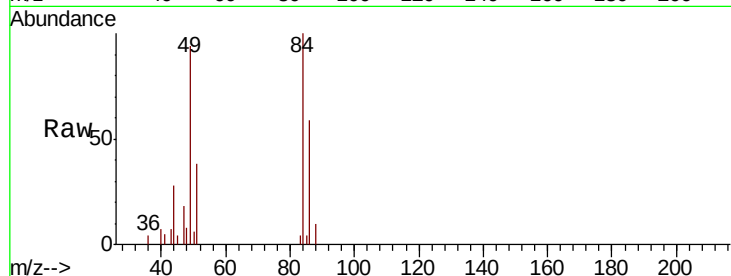




#20
Methylene Chloride
Concen: 0.888 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034264.D
Acq: 04 Sep 2019 17:41

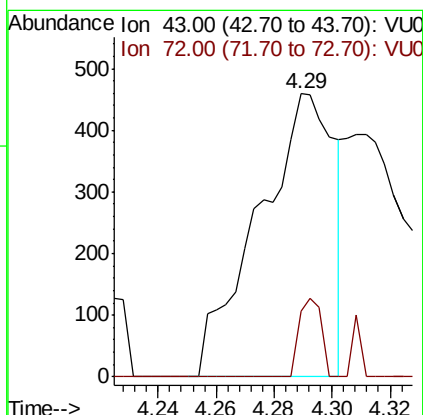
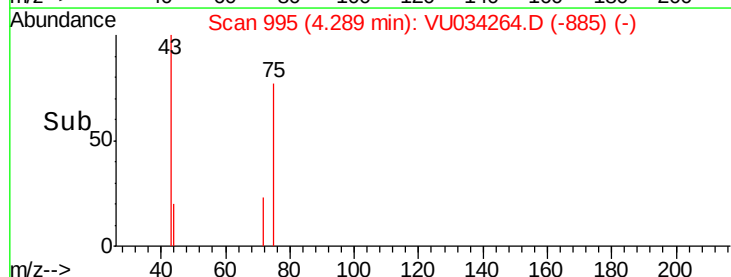
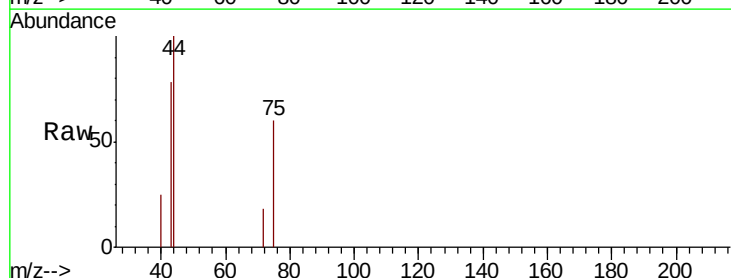
Instrument :
MSVOA_U
ClientSampleId :
T12-1-(0)

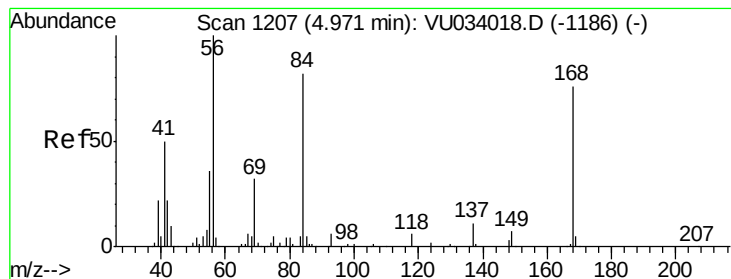
Tgt Ion:	84	Resp:	4707
Ion	Ratio	Lower	Upper
84	100		
49	93.6	100.2	150.4#
51	38.0	30.8	46.2
86	58.8	52.5	78.7



#25
2-Butanone
Concen: 0.214 ug/l
RT: 4.29 min Scan# 995
Delta R.T. 0.05 min
Lab File: VU034264.D
Acq: 04 Sep 2019 17:41

Tgt Ion:	43	Resp:	833
Ion	Ratio	Lower	Upper
43	100		
72	23.3	21.2	31.8





#31

Cyclohexane

Concen: 0.867 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VU034264.D

Acq: 04 Sep 2019 17:41

Instrument :

MSVOA_U

ClientSampled :

T12-1-(0)

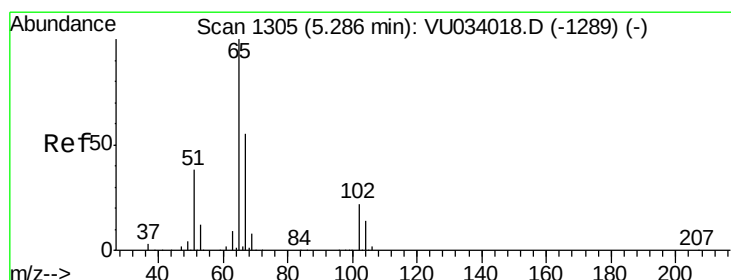
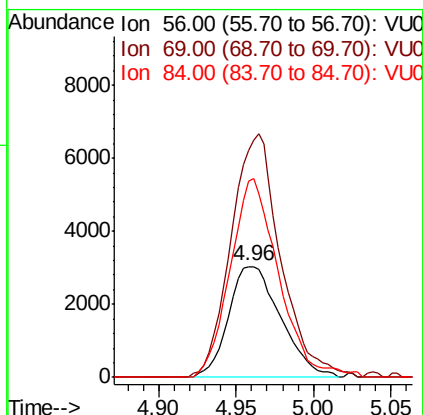
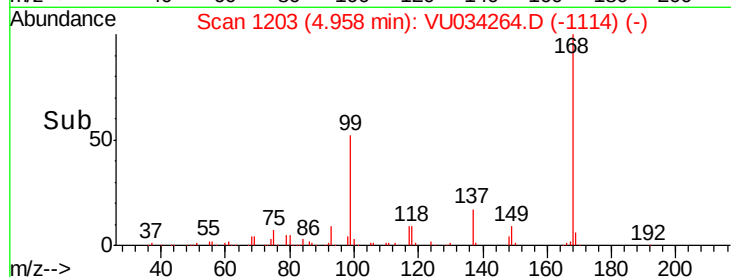
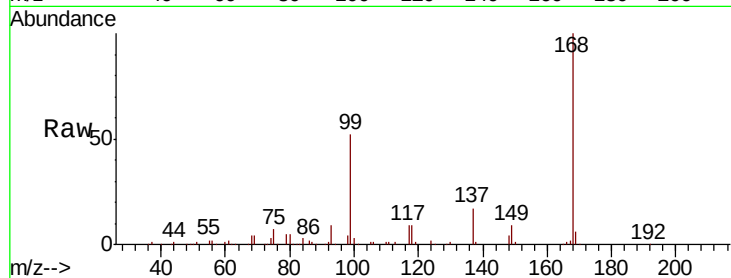
Tgt Ion: 56 Resp: 7107

Ion Ratio Lower Upper

56 100

69 203.9 25.4 38.0#

84 177.0 65.8 98.8#



#33

1,2-Dichloroethane-d4

Concen: 46.905 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034264.D

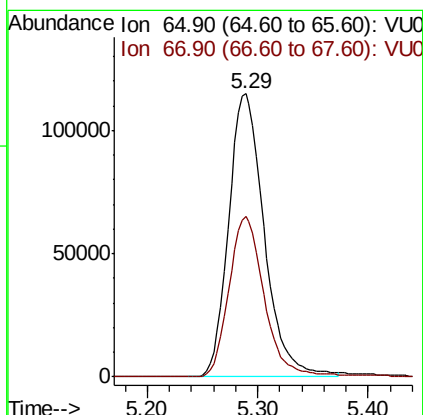
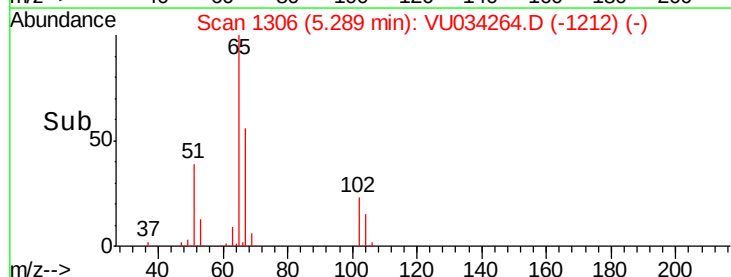
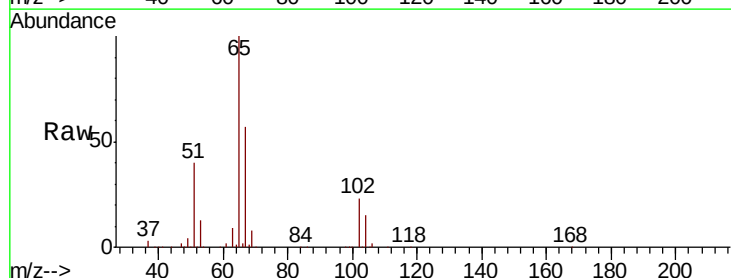
Acq: 04 Sep 2019 17:41

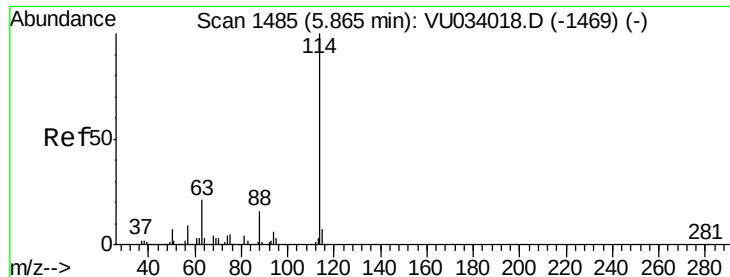
Tgt Ion: 65 Resp: 257362

Ion Ratio Lower Upper

65 100

67 56.1 0.0 110.6

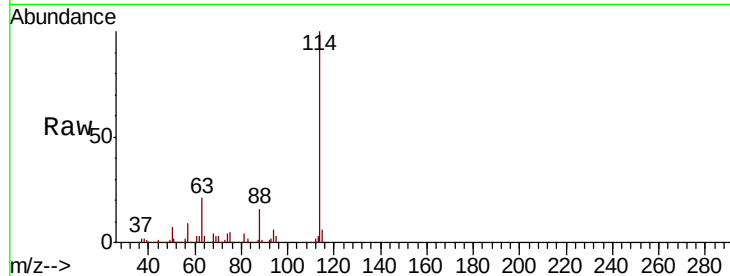




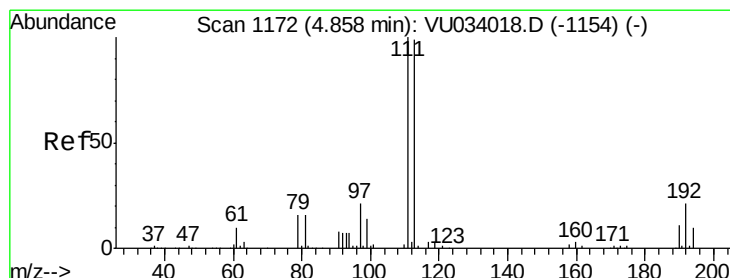
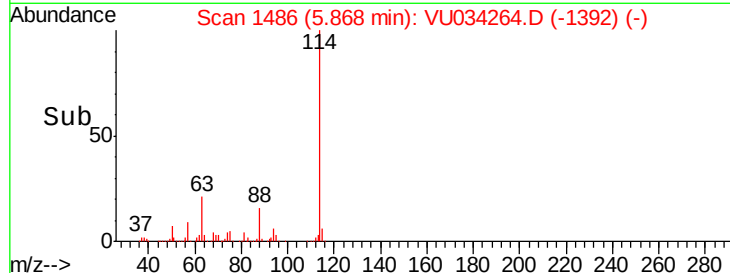
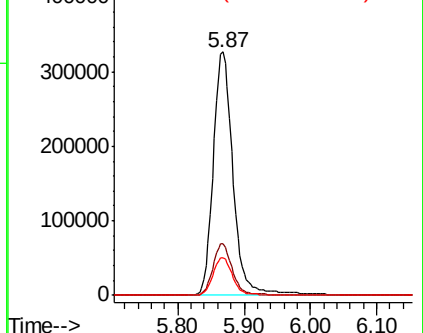
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034264.D
 Acq: 04 Sep 2019 17:41

Instrument :
 MSVOA_U
 ClientSampleId :
 T12-1-(0)

Tgt Ion:114 Resp: 680976
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 42.0
 88 15.6 0.0 32.0

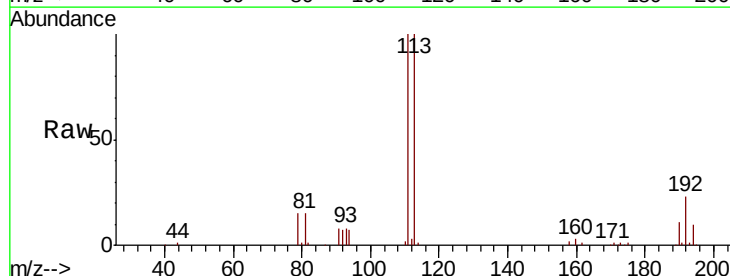


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

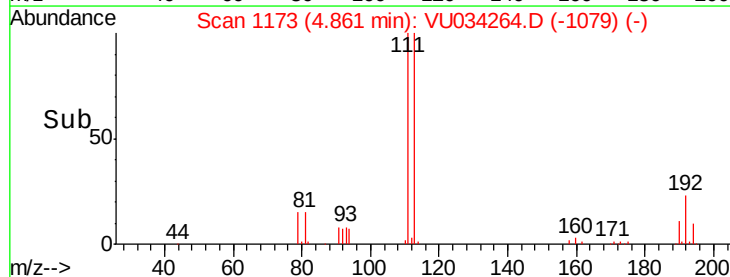
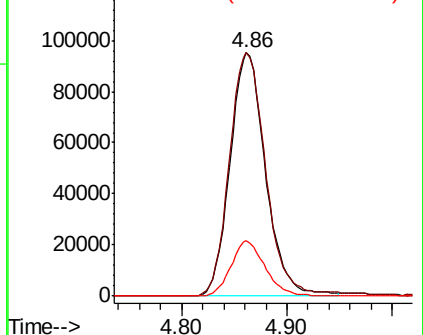


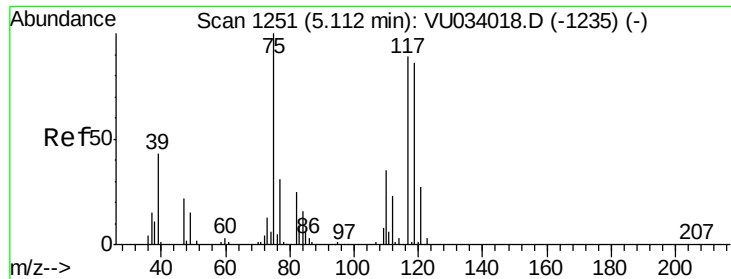
#35
 Dibromofluoromethane
 Concen: 47.038 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034264.D
 Acq: 04 Sep 2019 17:41

Tgt Ion:113 Resp: 222171
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.7 122.5
 192 22.0 17.1 25.7



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

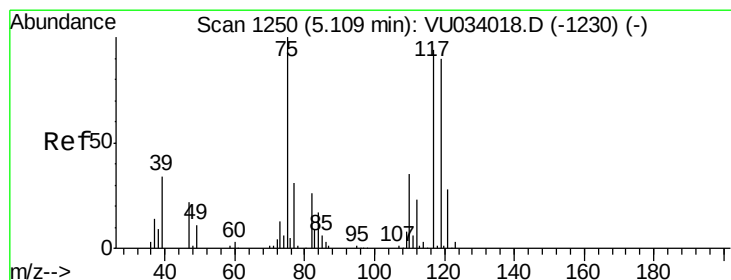
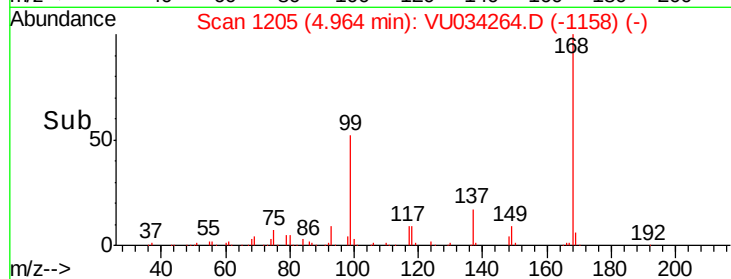
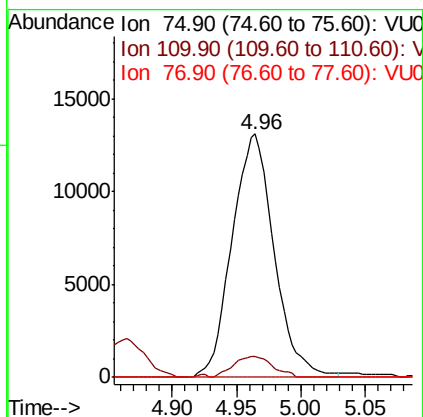
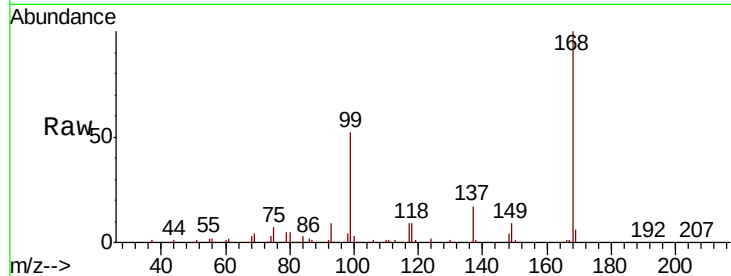




#36
 1,1-Dichloropropene
 Concen: 4.618 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034264.D
 Acq: 04 Sep 2019 17:41

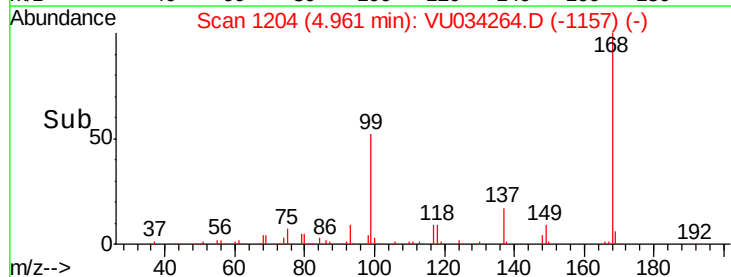
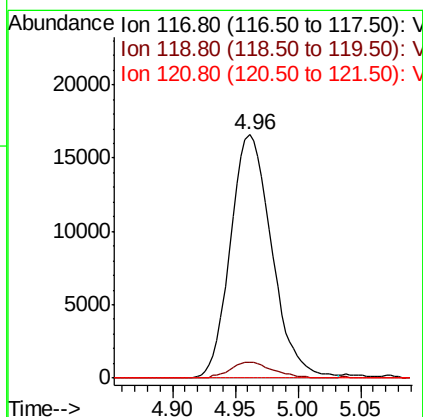
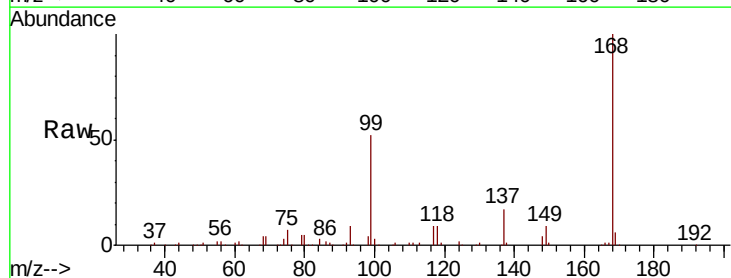
Instrument :
 MSVOA_U
 ClientSampleId :
 T12-1-(0)

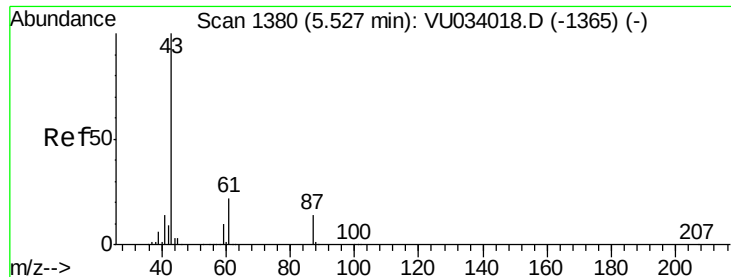
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	17.8	53.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.116 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034264.D
 Acq: 04 Sep 2019 17:41

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.2	77.0	115.4#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 8.447 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU034264.D

Acq: 04 Sep 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

T12-1-(0)

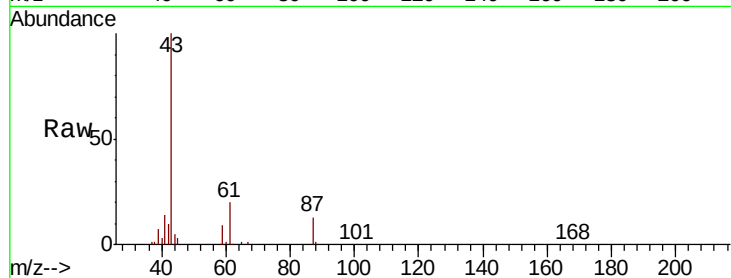
Tgt Ion: 43 Resp: 92691

Ion Ratio Lower Upper

43 100

61 20.6 17.2 25.8

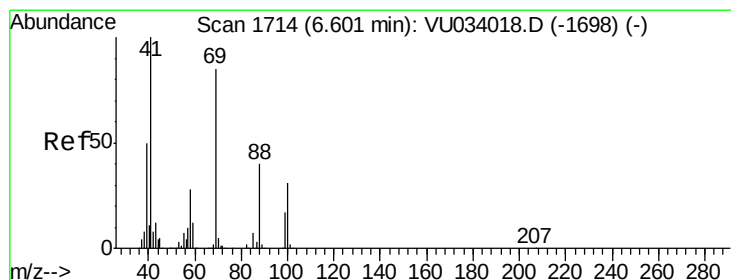
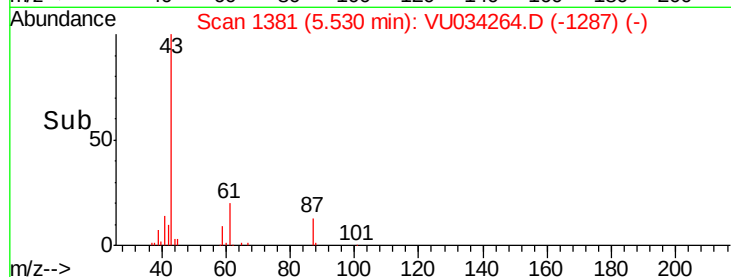
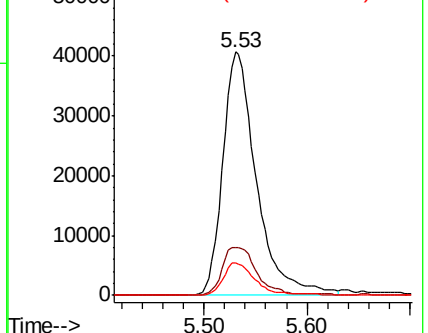
87 12.4 10.8 16.2



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-1365) (-)

Ion 61.00 (60.70 to 61.70): VU034018.D (-1365) (-)

Ion 87.00 (86.70 to 87.70): VU034018.D (-1365) (-)



#48

Methyl methacrylate

Concen: 1.055 ug/l

RT: 6.53 min Scan# 1691

Delta R.T. -0.07 min

Lab File: VU034264.D

Acq: 04 Sep 2019 17:41

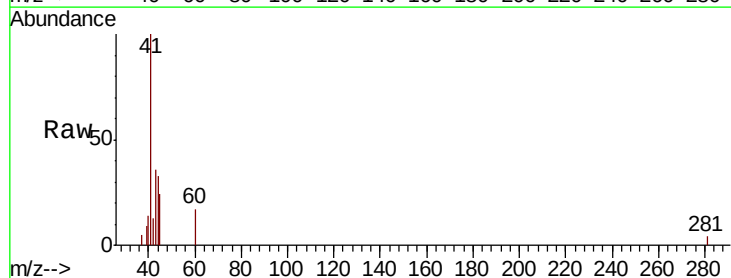
Tgt Ion: 41 Resp: 5585

Ion Ratio Lower Upper

41 100

69 0.0 69.5 104.3#

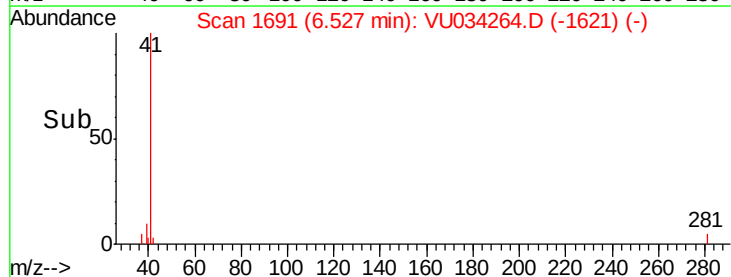
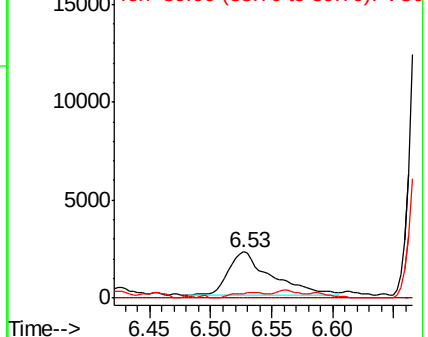
39 0.0 40.3 60.5#

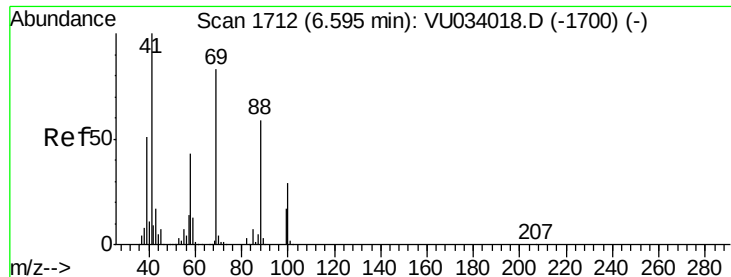


Abundance Ion 41.00 (40.70 to 41.70): VU034018.D (-1698) (-)

Ion 69.00 (68.70 to 69.70): VU034018.D (-1698) (-)

Ion 39.00 (38.70 to 39.70): VU034018.D (-1698) (-)





#49

1,4-Dioxane

Concen: 1.507 ug/l

RT: 6.68 min Scan# 1739

Delta R.T. 0.09 min

Lab File: VU034264.D

Acq: 04 Sep 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

T12-1-(0)

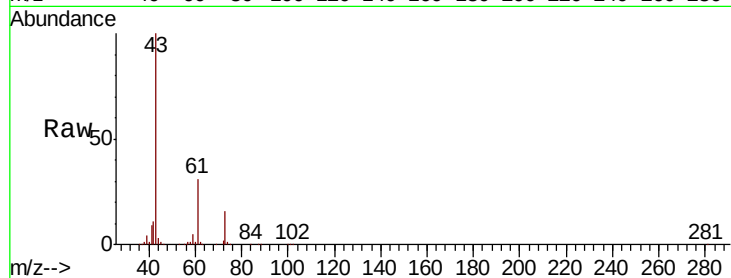
Tgt Ion: 88 Resp: 200

Ion Ratio Lower Upper

88 100

43 836746.0 24.8 37.2#

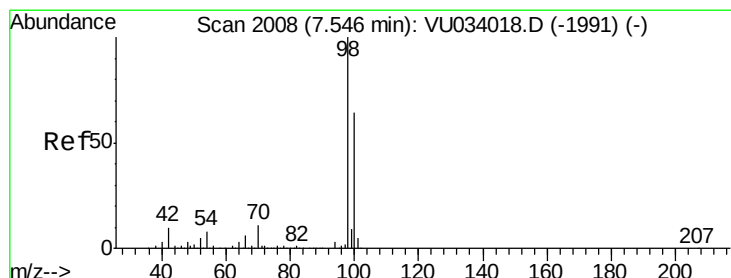
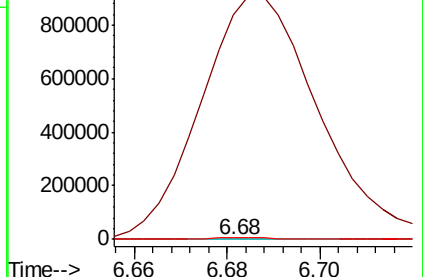
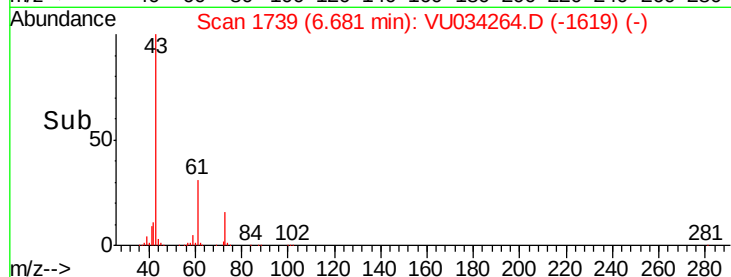
58 4481.0 59.3 88.9#



Abundance Ion 88.00 (87.70 to 88.70): VU034264.D (-1619) (-)

Ion 43.00 (42.70 to 43.70): VU034264.D (-1619) (-)

Ion 58.00 (57.70 to 58.70): VU034264.D (-1619) (-)



#50

Toluene-d8

Concen: 49.977 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. -0.00 min

Lab File: VU034264.D

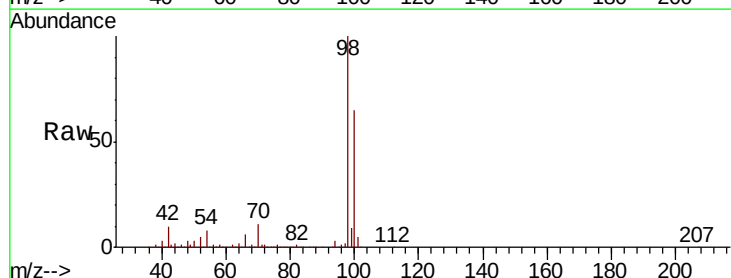
Acq: 04 Sep 2019 17:41

Tgt Ion: 98 Resp: 883871

Ion Ratio Lower Upper

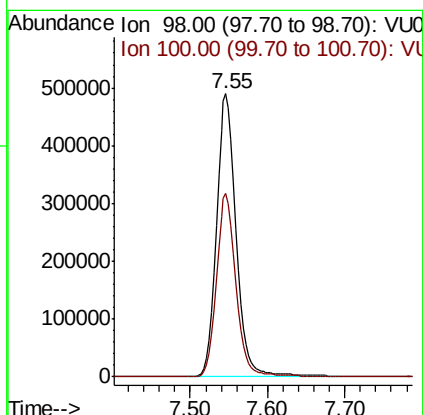
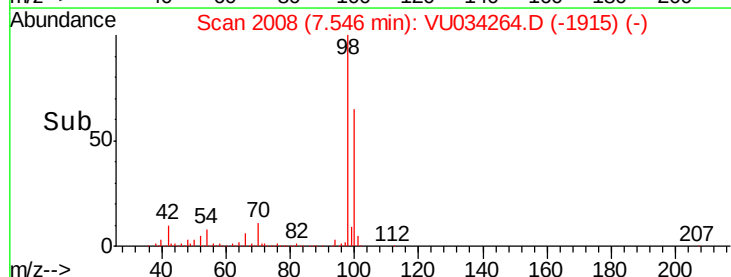
98 100

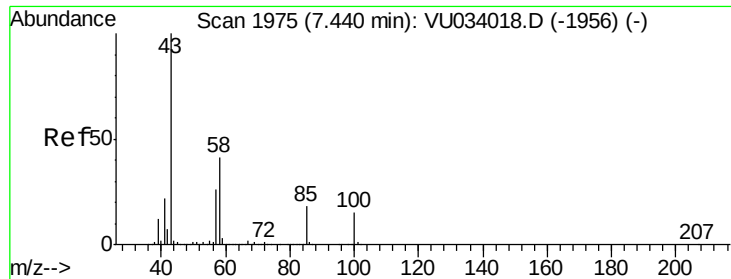
100 64.3 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU034264.D (-1915) (-)

Ion 100.00 (99.70 to 100.70): VU034264.D (-1915) (-)





#51

4-Methyl-2-Pentanone

Concen: 11.040 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034264.D

Acq: 04 Sep 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

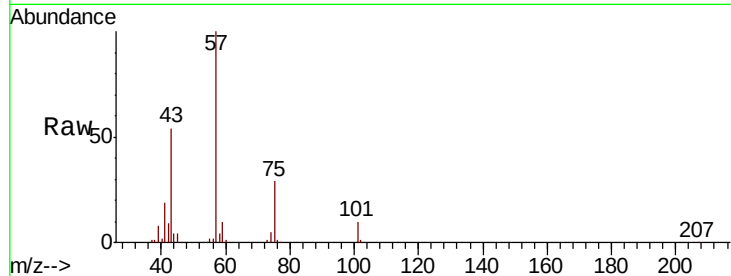
T12-1-(0)

Tgt Ion: 43 Resp: 83661

Ion Ratio Lower Upper

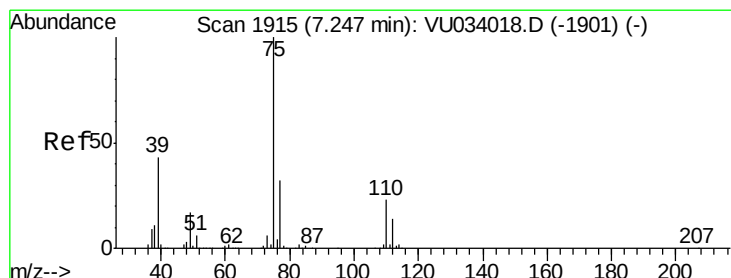
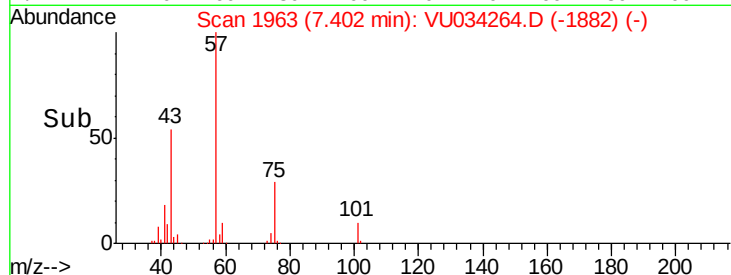
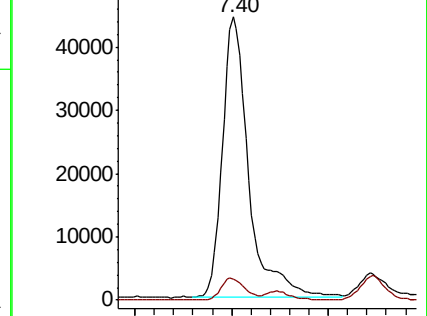
43 100

58 7.3 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#54

cis-1,3-Dichloropropene

Concen: 5.015 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034264.D

Acq: 04 Sep 2019 17:41

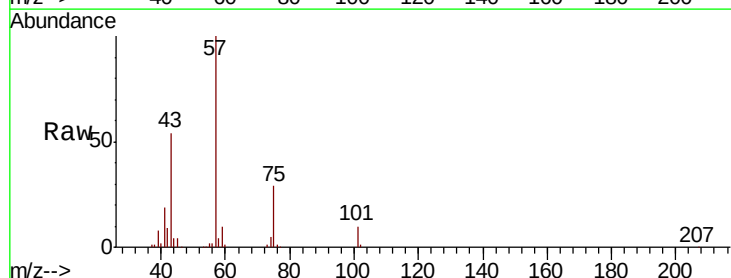
Tgt Ion: 75 Resp: 41112

Ion Ratio Lower Upper

75 100

77 0.8 25.2 37.8#

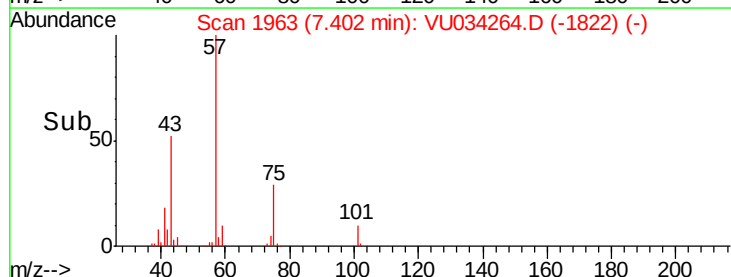
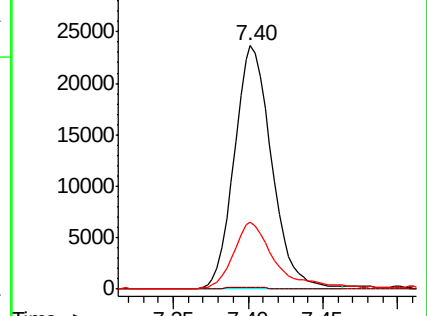
39 27.7 34.6 51.8#

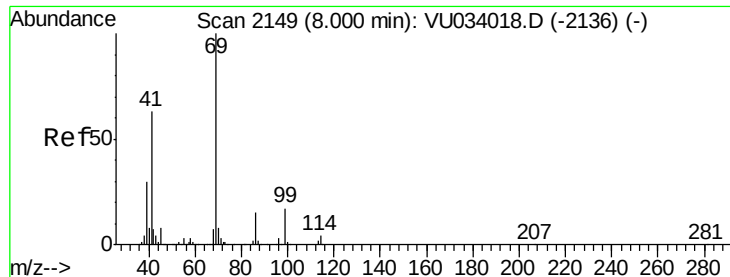


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





#56

Ethyl methacrylate

Concen: 1.246 ug/l

RT: 8.14 min Scan# 2192

Delta R.T. 0.14 min

Lab File: VU034264.D

Acq: 04 Sep 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

T12-1-(0)

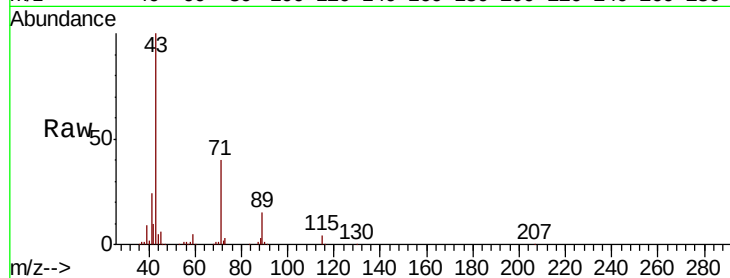
Tgt Ion: 69 Resp: 2358

Ion Ratio Lower Upper

69 100

41 2858.4 50.7 76.1#

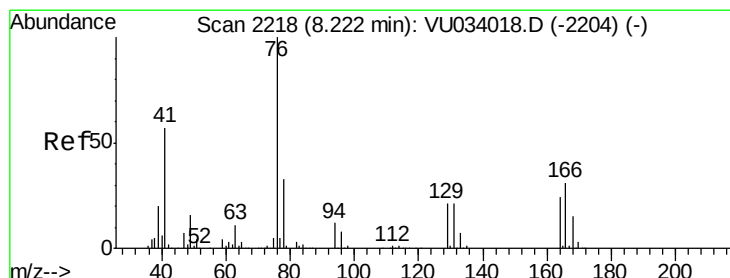
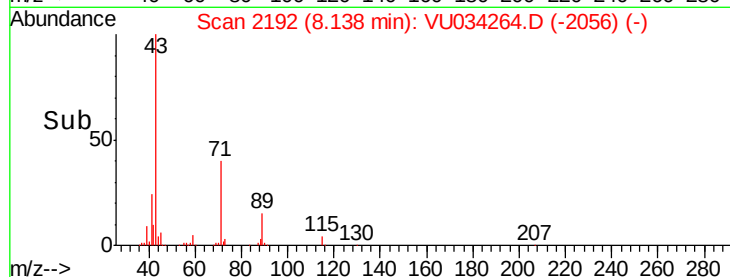
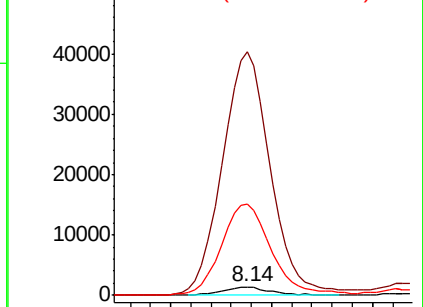
39 1118.5 24.2 36.2#



Abundance Ion 69.00 (68.70 to 69.70): VU0

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0



#57

1,3-Dichloropropane

Concen: 0.804 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034264.D

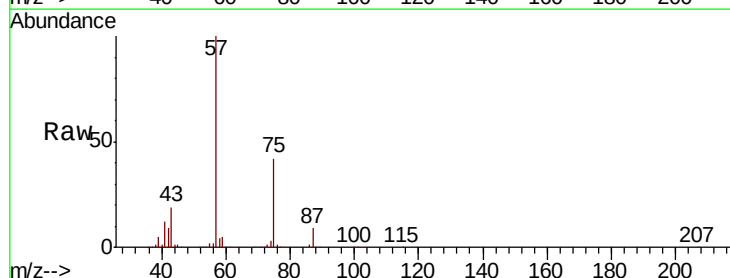
Acq: 04 Sep 2019 17:41

Tgt Ion: 76 Resp: 6928

Ion Ratio Lower Upper

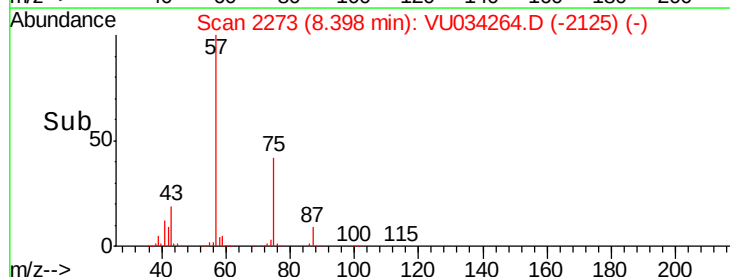
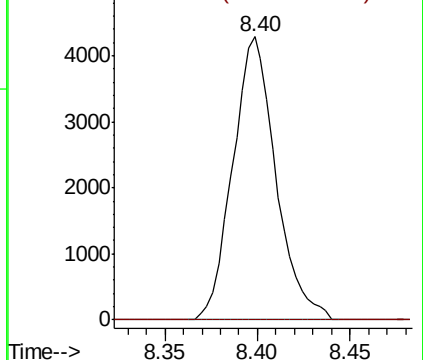
76 100

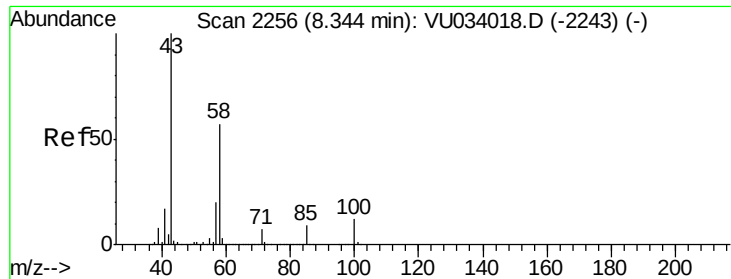
78 0.0 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

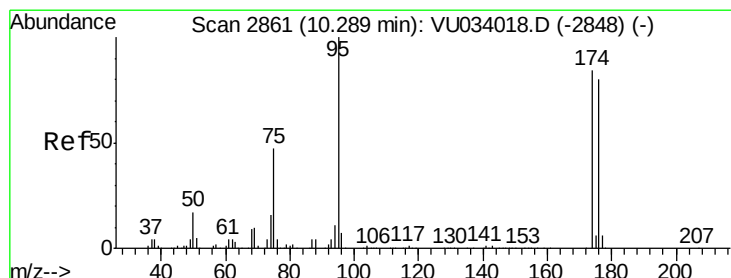
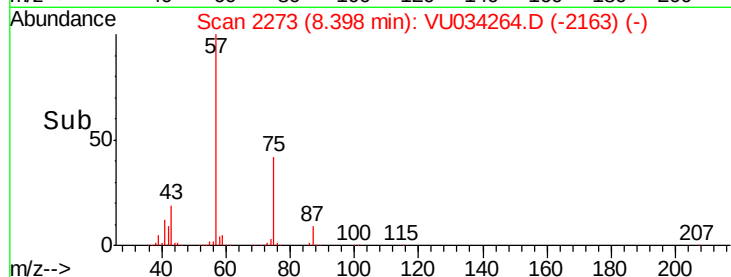
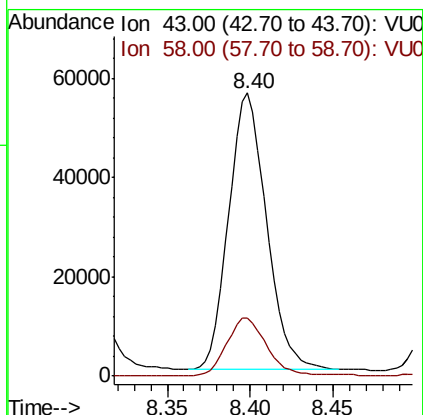
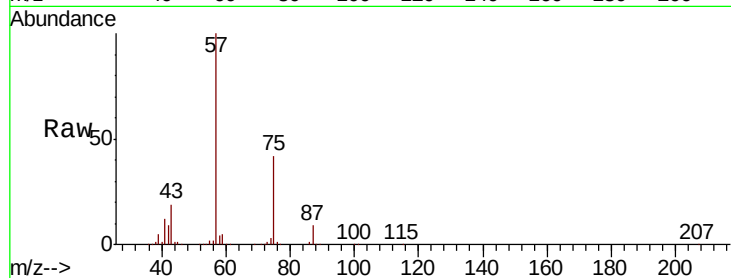




#59
2-Hexanone
Concen: 15.440 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034264.D
Acq: 04 Sep 2019 17:41

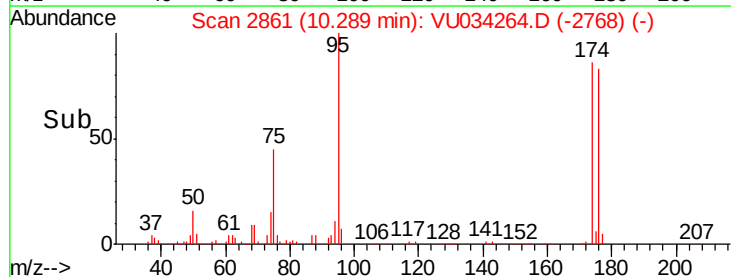
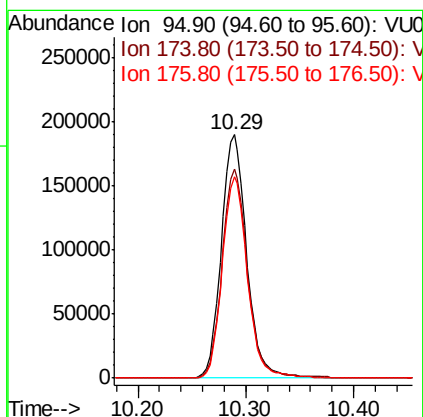
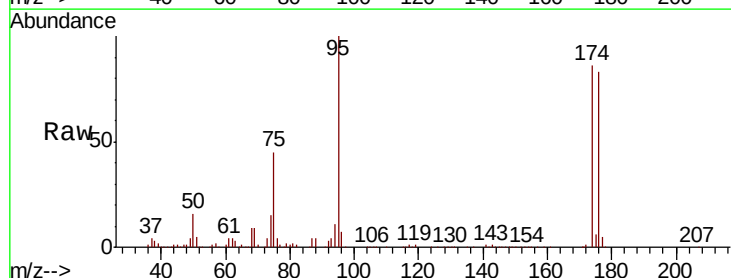
Instrument :
MSVOA_U
ClientSampleId :
T12-1-(0)

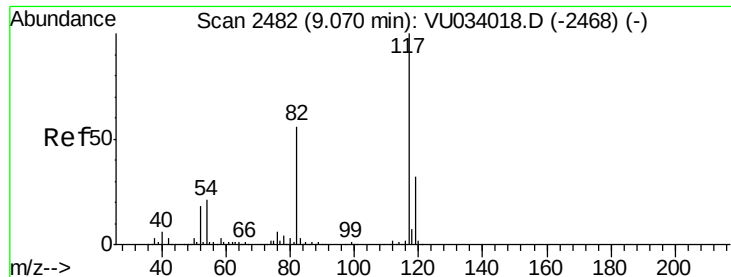
Tgt Ion: 43 Resp: 88334
Ion Ratio Lower Upper
43 100
58 22.6 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 45.056 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.00 min
Lab File: VU034264.D
Acq: 04 Sep 2019 17:41

Tgt Ion: 95 Resp: 309957
Ion Ratio Lower Upper
95 100
174 86.8 0.0 168.8
176 82.5 0.0 161.8

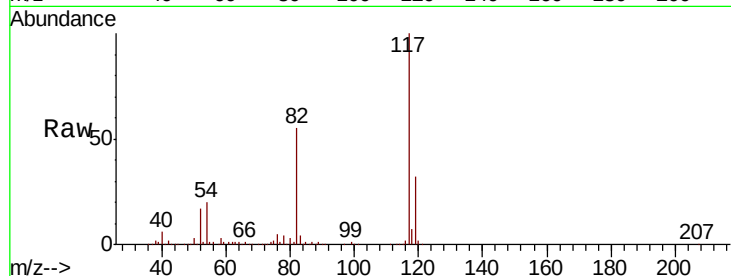




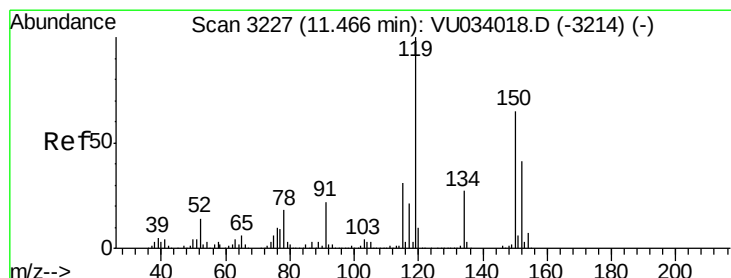
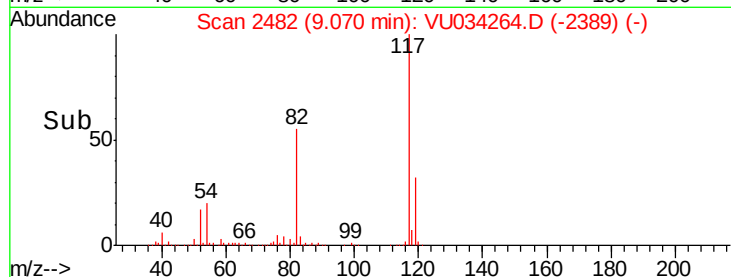
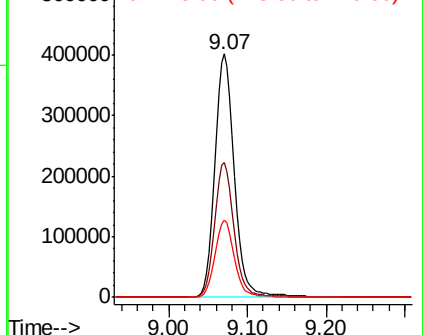
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034264.D
Acq: 04 Sep 2019 17:41

Instrument :
MSVOA_U
ClientSampleId :
T12-1-(0)

Tgt Ion:117 Resp: 684858
Ion Ratio Lower Upper
117 100
82 55.5 45.1 67.7
119 31.8 25.4 38.0

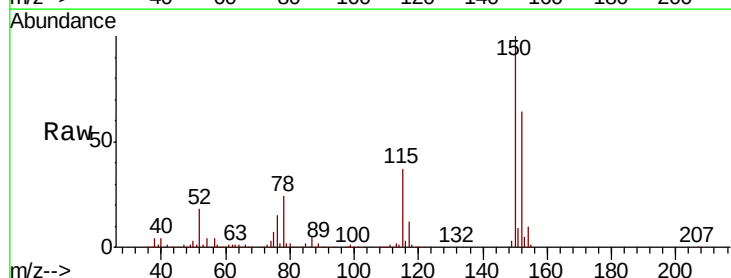


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

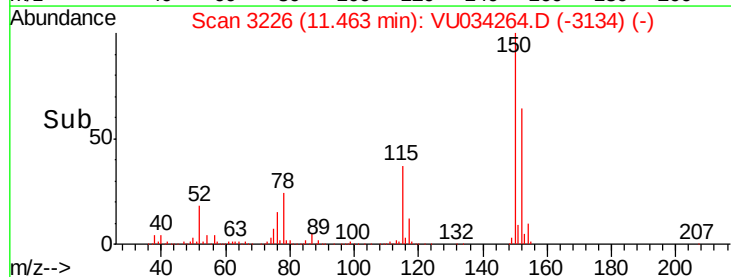
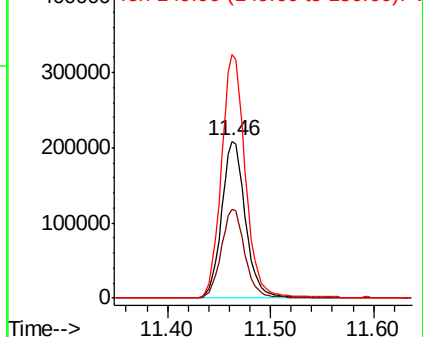


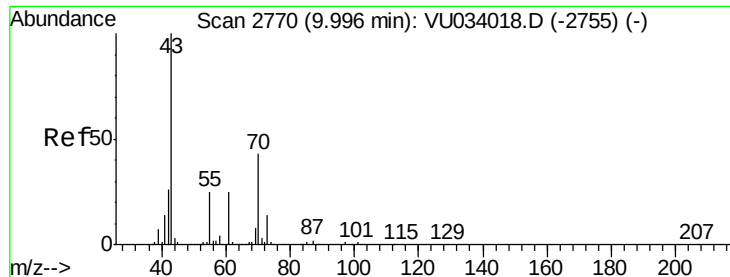
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034264.D
Acq: 04 Sep 2019 17:41

Tgt Ion:152 Resp: 334263
Ion Ratio Lower Upper
152 100
115 56.7 41.1 123.3
150 156.7 0.0 348.8



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

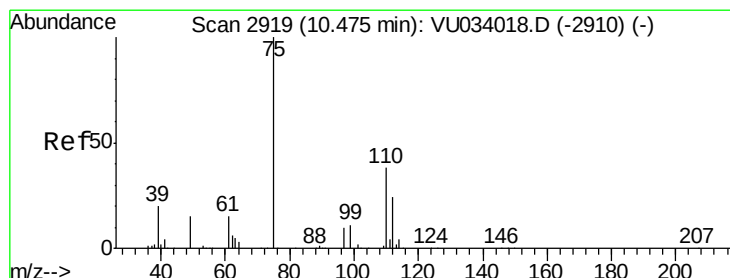
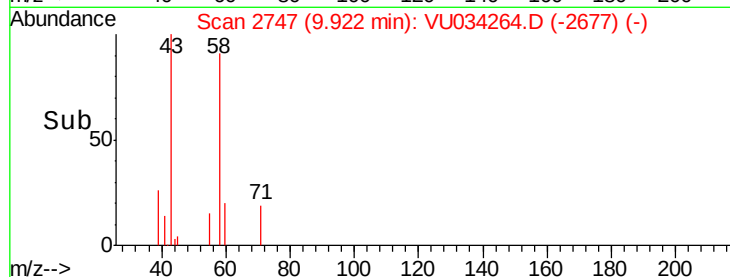
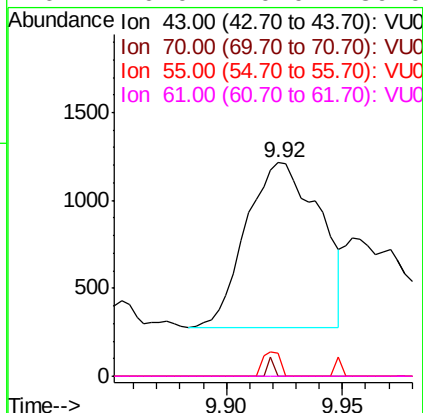
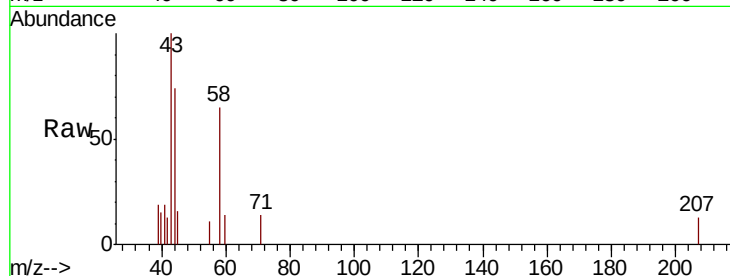




#74
N-ethyl acetate
Concen: 0.220 ug/l
RT: 9.92 min Scan# 2747
Delta R.T. -0.07 min
Lab File: VU034264.D
Acq: 04 Sep 2019 17:41

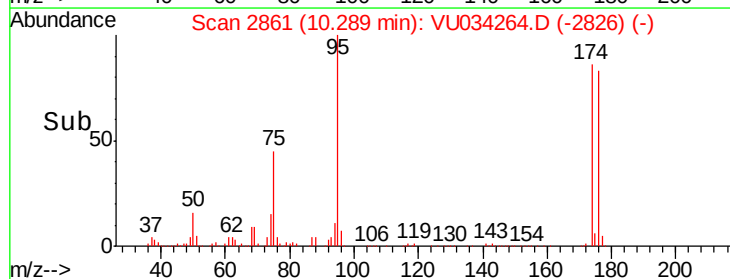
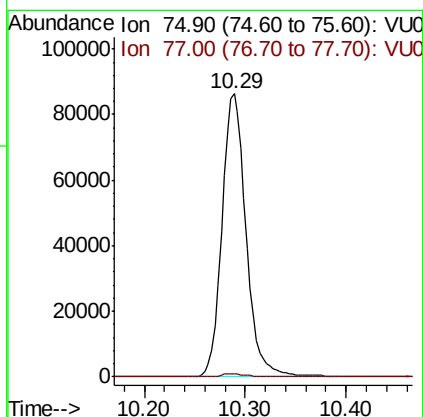
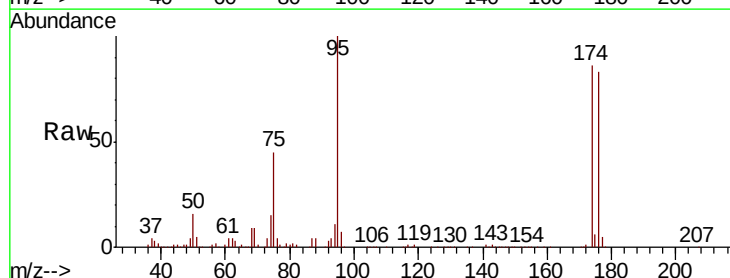
Instrument :
MSVOA_U
ClientSampleId :
T12-1-(0)

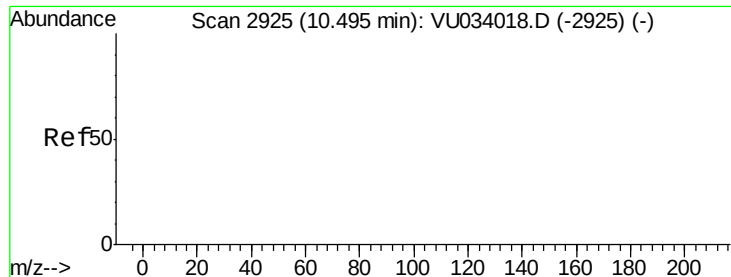
Tgt Ion:	43	Resp:	2076
Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.2	52.8#
55	3.6	20.5	30.7#
61	0.0	20.0	30.0#



#76
1,2,3-Trichloropropane
Concen: 19.145 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.19 min
Lab File: VU034264.D
Acq: 04 Sep 2019 17:41

Tgt Ion:	75	Resp:	144233
Ion	Ratio	Lower	Upper
75	100		
77	1.1	20.1	60.2#

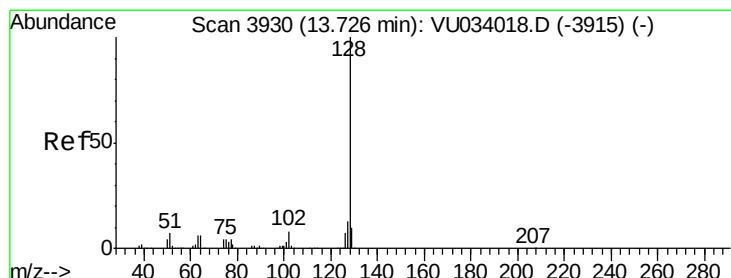
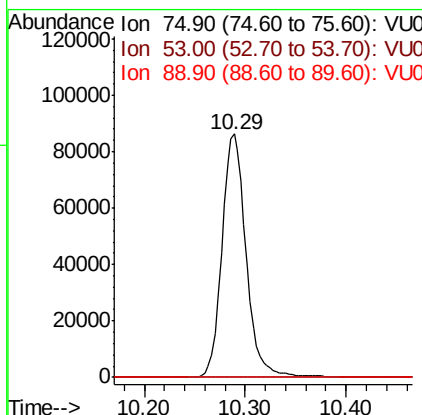
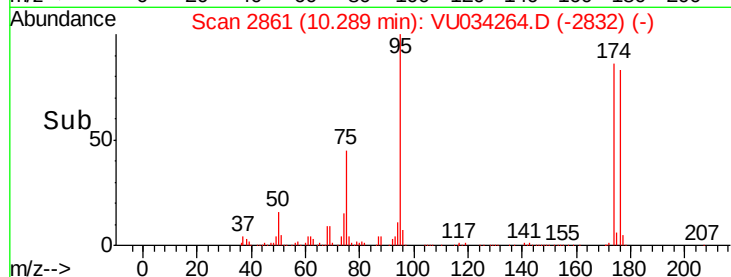
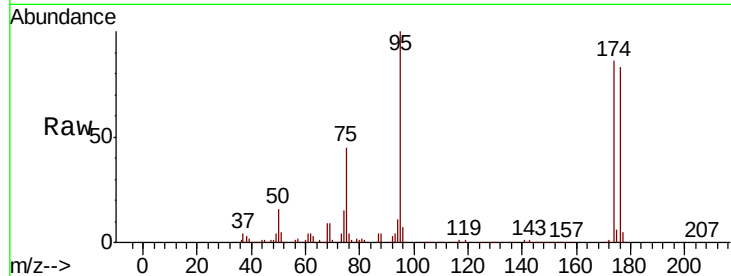




#81
trans-1,4-Dichloro-2-butene
Concen: 64.466 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.21 min
Lab File: VU034264.D
Acq: 04 Sep 2019 17:41

Instrument :
MSVOA_U
ClientSampleId :
T12-1-(0)

Tgt Ion: 75 Resp: 144233
Ion Ratio Lower Upper
75 100
53 0.1 0.0 0.0#
89 0.0 0.0 0.0



#95
Naphthalene
Concen: 1.791 ug/l
RT: 13.83 min Scan# 3961
Delta R.T. 0.10 min
Lab File: VU034264.D
Acq: 04 Sep 2019 17:41

Tgt Ion: 128 Resp: 20
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 0.0 8.4 12.6#

