

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
 Data File : VU034140.D
 Acq On : 31 Aug 2019 23:03
 Operator : JC/SP
 Sample : K4517-29
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T4-S-D4-(2.5)

Quant Time: Sep 01 04:52:16 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	456014	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	741180	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	726378	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	358353	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	288026	49.29	ug/l	0.00
Spiked Amount			Recovery	=	98.58%	
35) Dibromofluoromethane	4.86	113	240118	46.71	ug/l	0.00
Spiked Amount			Recovery	=	93.42%	
50) Toluene-d8	7.55	98	961263	49.94	ug/l	0.00
Spiked Amount			Recovery	=	99.88%	
62) 4-Bromofluorobenzene	10.29	95	336100	44.89	ug/l	0.00
Spiked Amount			Recovery	=	89.78%	

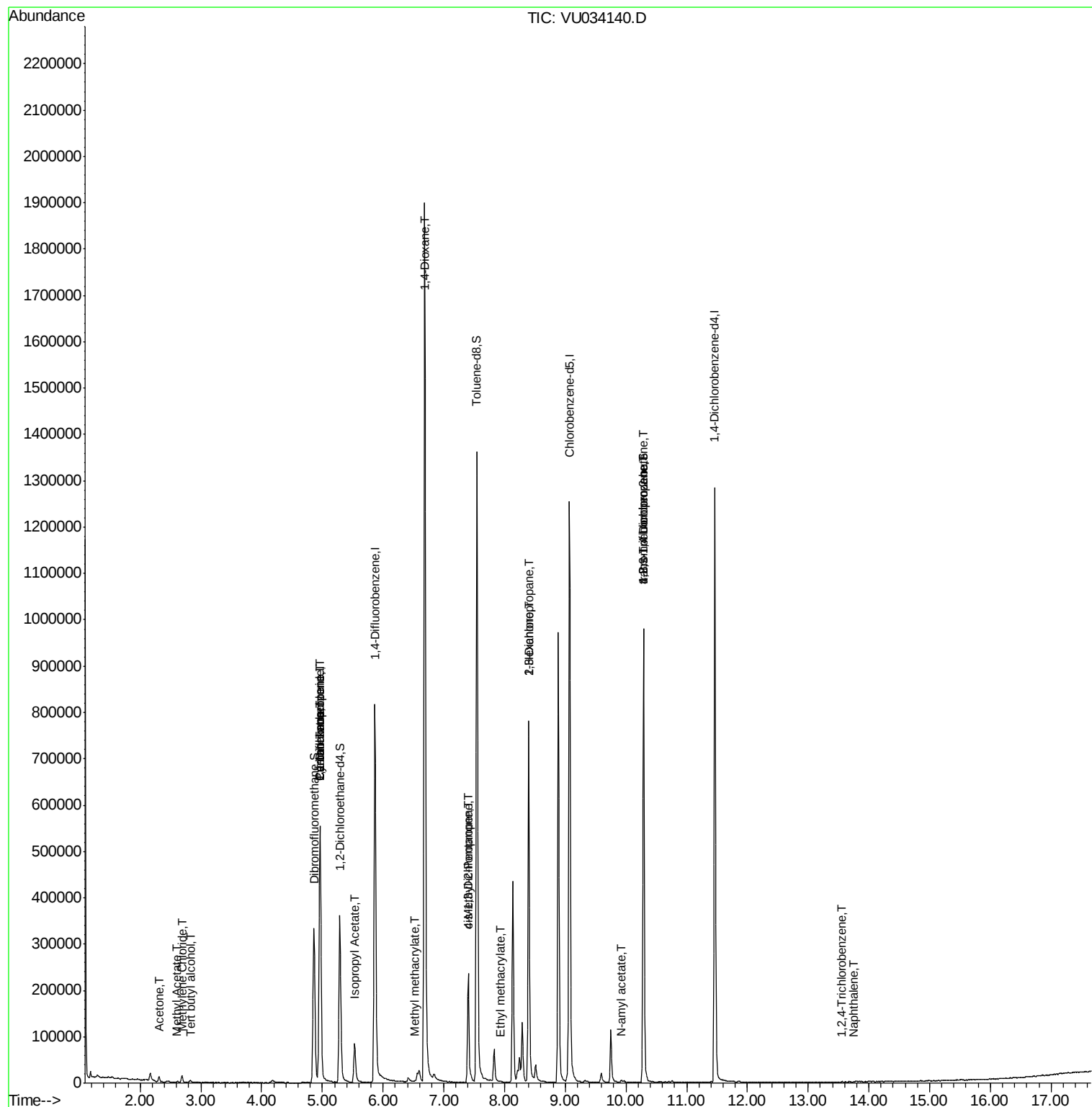
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	640	Below Cal	#	85
5) Bromomethane	1.64	94	766	Below Cal	#	77
11) Tert butyl alcohol	2.83	59	2381	1.767	ug/l #	73
16) Acetone	2.31	43	12995	4.359	ug/l	98
18) Methyl Acetate	2.61	43	4515	0.586	ug/l #	86
20) Methylene Chloride	2.69	84	6657	1.179	ug/l	96
31) Cyclohexane	4.96	56	8492	0.973	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	33067	4.717	ug/l #	49
38) Carbon Tetrachloride	4.96	117	42015	6.209	ug/l #	16
43) Isopropyl Acetate	5.53	43	101332	8.484	ug/l	98
48) Methyl methacrylate	6.53	41	6155	1.068	ug/l #	14
49) 1,4-Dioxane	6.68	88	241	1.669	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	93359	11.319	ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	43981	4.930	ug/l #	63
56) Ethyl methacrylate	7.94	69	158	0.988	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	8163	0.870	ug/l #	43
59) 2-Hexanone	8.40	43	111417	17.893	ug/l #	51
74) N-amyl acetate	9.92	43	3372	0.333	ug/l #	45
76) 1,2,3-Trichloropropane	10.29	75	160736	19.901	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	160736	67.013	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.54	180	216	1.141	ug/l #	64
95) Naphthalene	13.76	128	283	1.802	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# 1205

Delta R.T. 0.01 min

Lab File: VU034140.D

Acq: 31 Aug 2019 23:03

Instrument :

MSVOA_U

ClientSampleId :

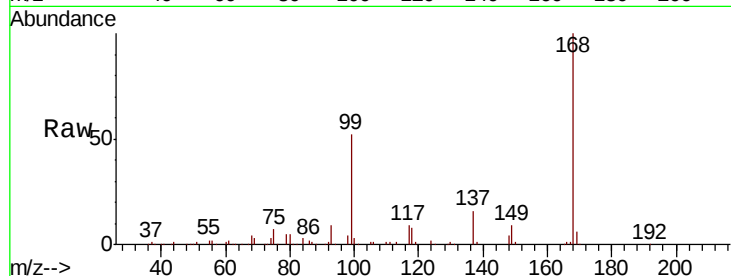
T4-S-D4-(2.5)

Tgt Ion:168 Resp: 456014

Ion Ratio Lower Upper

168 100

99 52.1 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034140.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034140.D (-1185) (-)

4.96

200000

150000

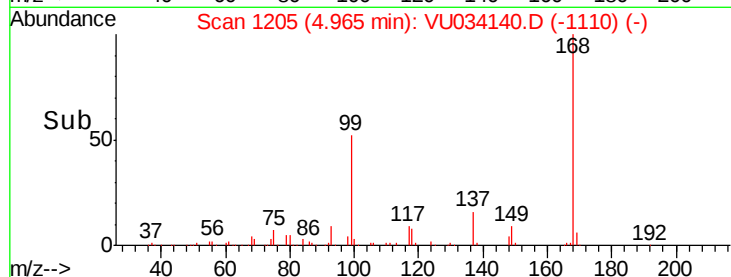
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034140.D

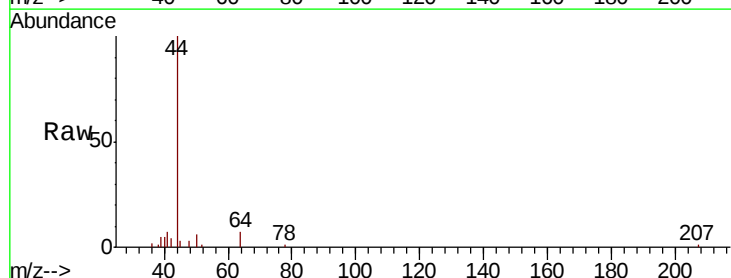
Acq: 31 Aug 2019 23:03

Tgt Ion: 50 Resp: 640

Ion Ratio Lower Upper

50 100

52 24.1 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU034140.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034140.D (-63) (-)

1.32

600

500

400

300

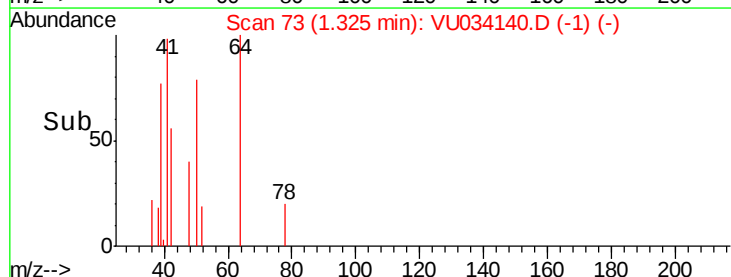
200

100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 170

Delta R.T. 0.04 min

Lab File: VU034140.D

Acq: 31 Aug 2019 23:03

Instrument :

MSVOA_U

ClientSampleId :

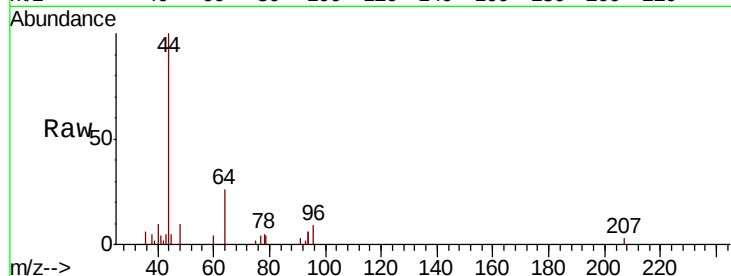
T4-S-D4-(2.5)

Tgt Ion: 94 Resp: 766

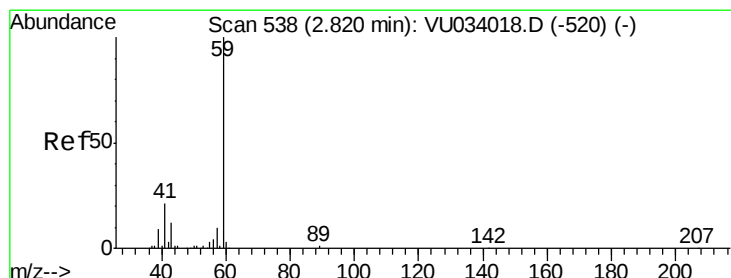
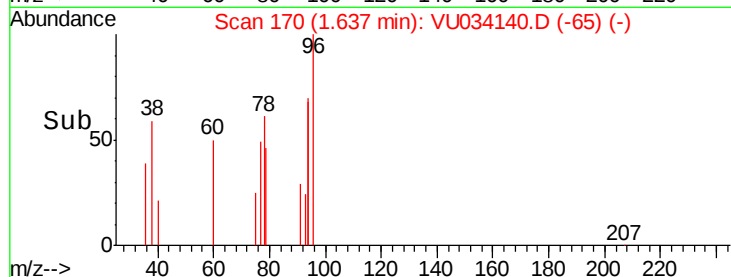
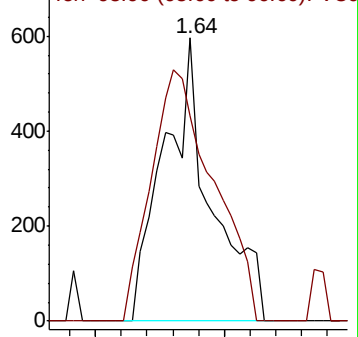
Ion Ratio Lower Upper

94 100

96 72.7 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034140.D (-143) (-)



#11

Tert butyl alcohol

Concen: 1.767 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034140.D

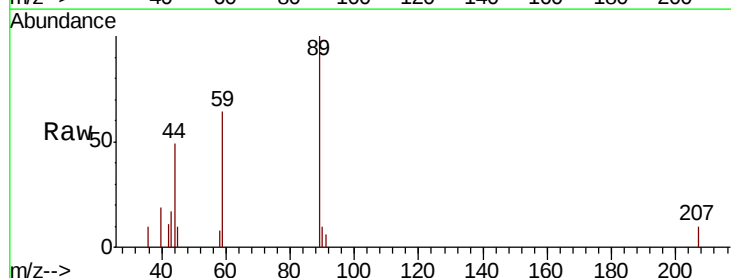
Acq: 31 Aug 2019 23:03

Tgt Ion: 59 Resp: 2381

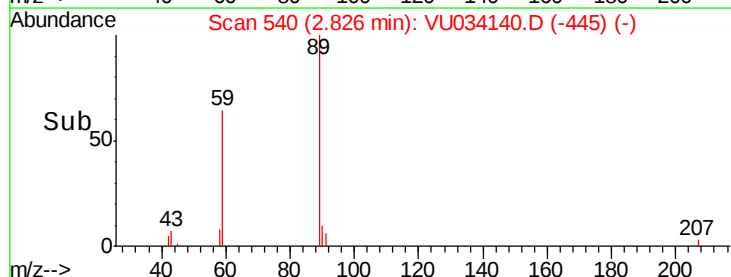
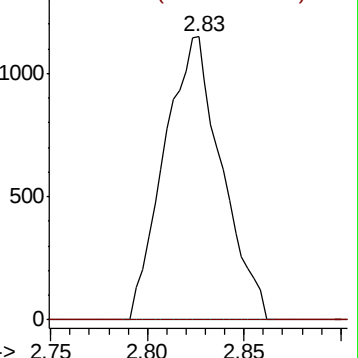
Ion Ratio Lower Upper

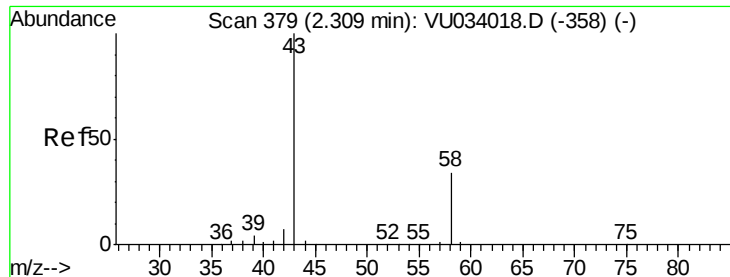
59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034140.D (-520) (-)





#16

Acetone

Concen: 4.359 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034140.D

Acq: 31 Aug 2019 23:03

Instrument :

MSVOA_U

ClientSampleId :

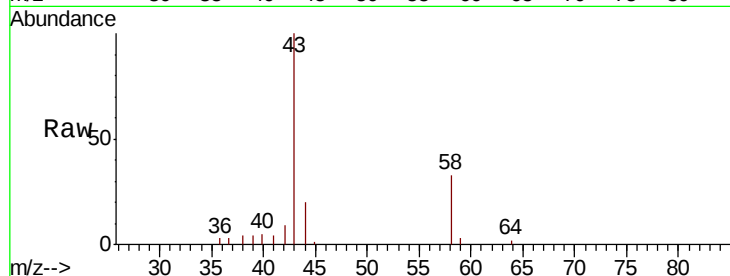
T4-S-D4-(2.5)

Tgt Ion: 43 Resp: 12995

Ion Ratio Lower Upper

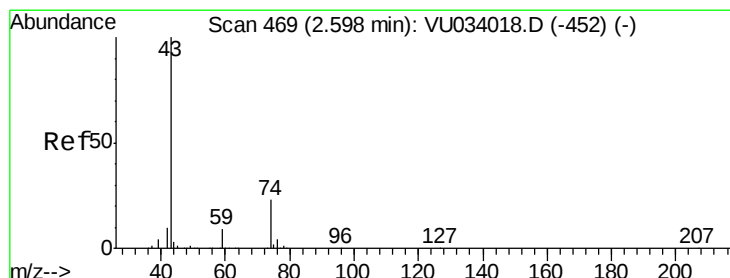
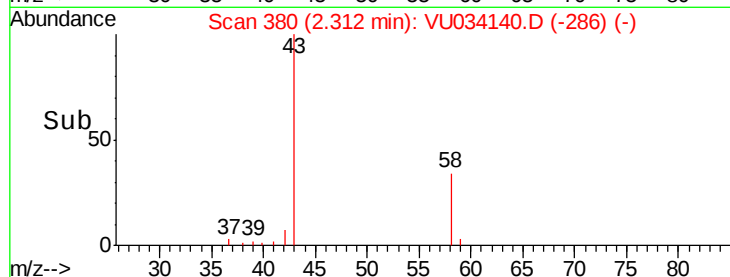
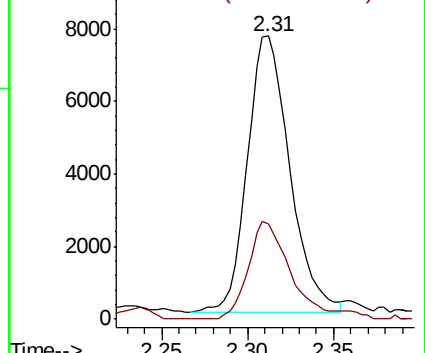
43 100

58 34.4 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034140.D (-380) (-)

Ion 58.00 (57.70 to 58.70): VU034140.D (-380) (-)



#18

Methyl Acetate

Concen: 0.586 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034140.D

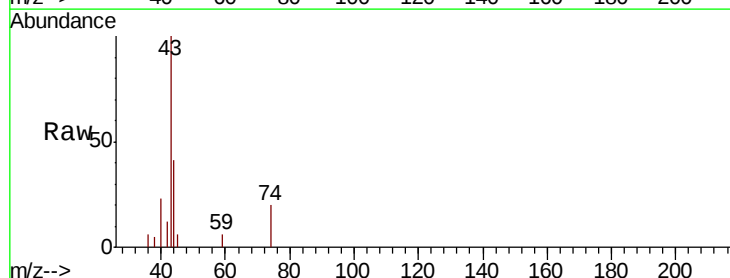
Acq: 31 Aug 2019 23:03

Tgt Ion: 43 Resp: 4515

Ion Ratio Lower Upper

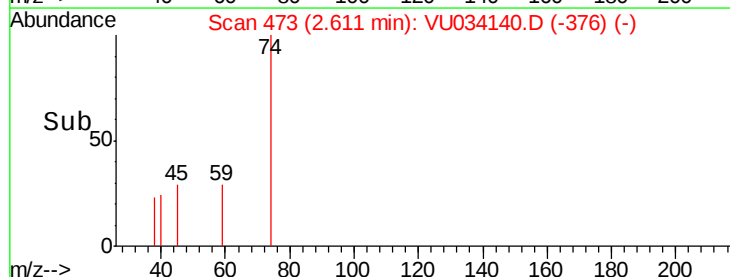
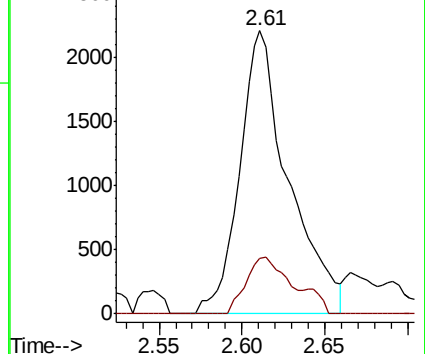
43 100

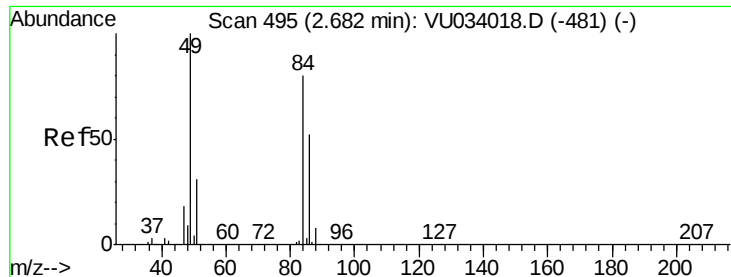
74 16.9 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VU034140.D (-473) (-)

Ion 74.00 (73.70 to 74.70): VU034140.D (-473) (-)

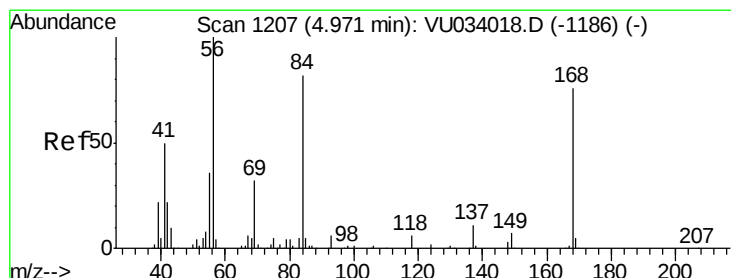
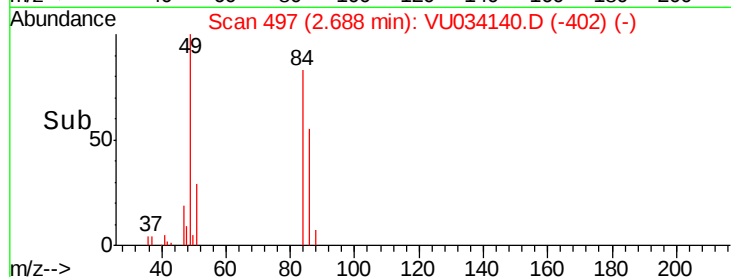
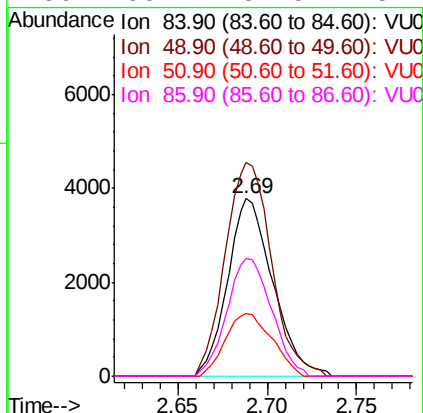
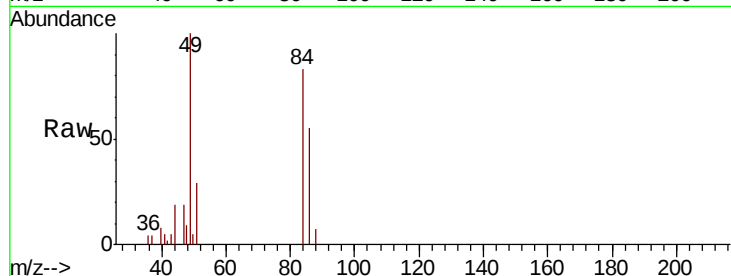




#20
Methylene Chloride
Concen: 1.179 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034140.D
Acq: 31 Aug 2019 23:03

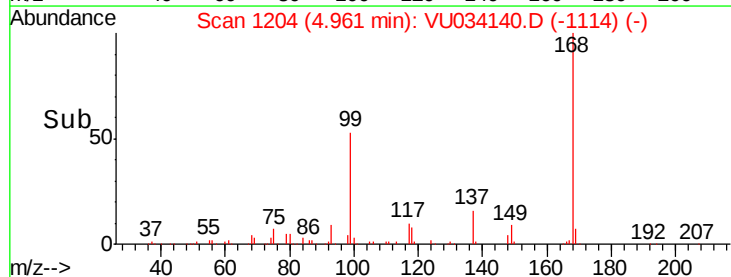
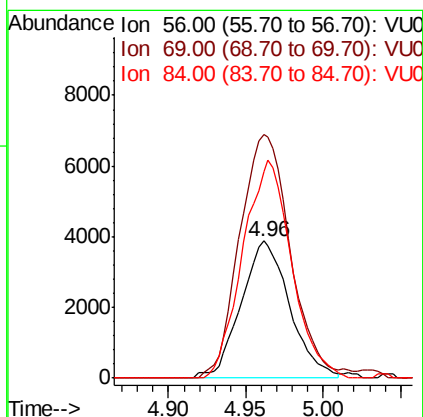
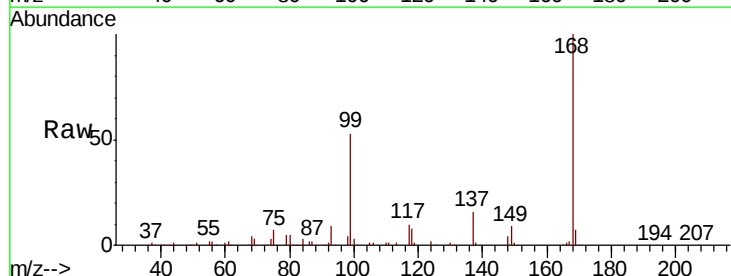
Instrument :
MSVOA_U
ClientSampleId :
T4-S-D4-(2.5)

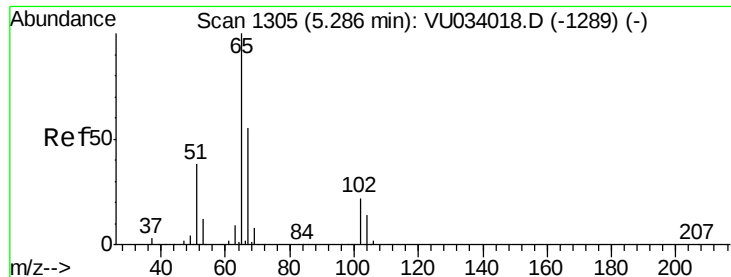
Tgt Ion:	84	Resp:	6657
Ion	Ratio	Lower	Upper
84	100		
49	120.1	100.2	150.4
51	35.4	30.8	46.2
86	66.4	52.5	78.7



#31
Cyclohexane
Concen: 0.973 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034140.D
Acq: 31 Aug 2019 23:03

Tgt Ion:	56	Resp:	8492
Ion	Ratio	Lower	Upper
56	100		
69	177.4	25.4	38.0#
84	150.9	65.8	98.8#





#33

1,2-Dichloroethane-d4

Concen: 49.293 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034140.D

Acq: 31 Aug 2019 23:03

Instrument :

MSVOA_U

ClientSampleId :

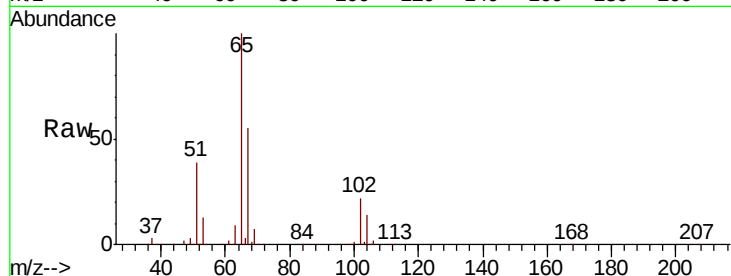
T4-S-D4-(2.5)

Tgt Ion: 65 Resp: 288026

Ion Ratio Lower Upper

65 100

67 55.1 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034140.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034140.D (-1289) (-)

150000

100000

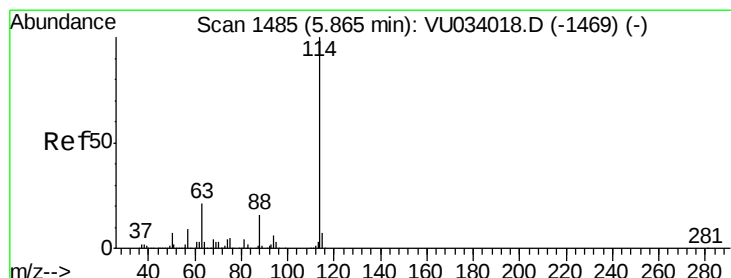
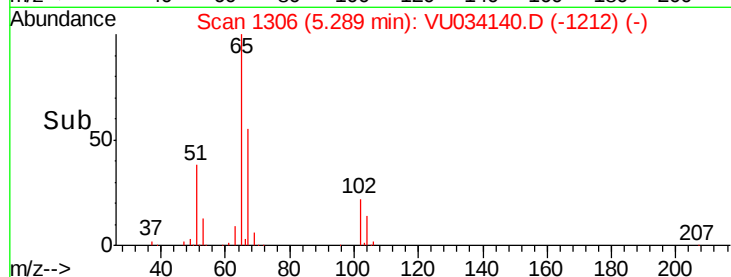
50000

0

5.29

5.20 5.30 5.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034140.D

Acq: 31 Aug 2019 23:03

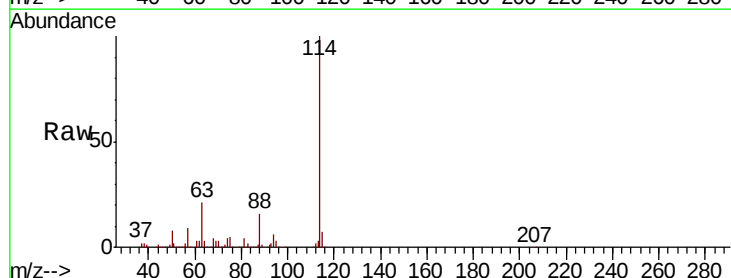
Tgt Ion: 114 Resp: 741180

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.0

88 16.2 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): VU034140.D (-1469) (-)

Ion 63.00 (62.70 to 63.70): VU034140.D (-1469) (-)

Ion 87.90 (87.60 to 88.60): VU034140.D (-1469) (-)

400000

300000

200000

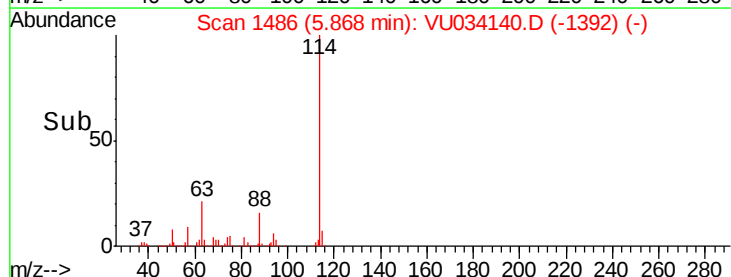
100000

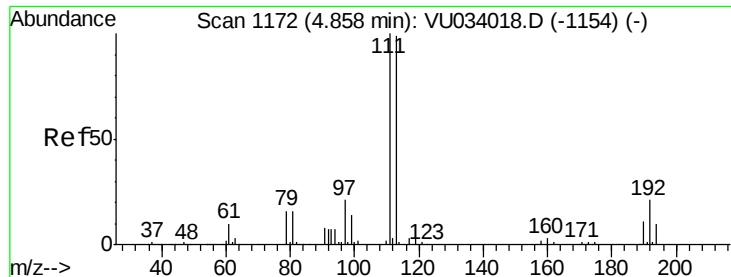
0

5.87

5.80 5.90 6.00

Time-->

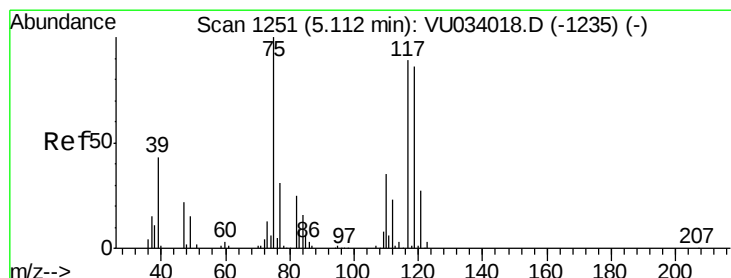
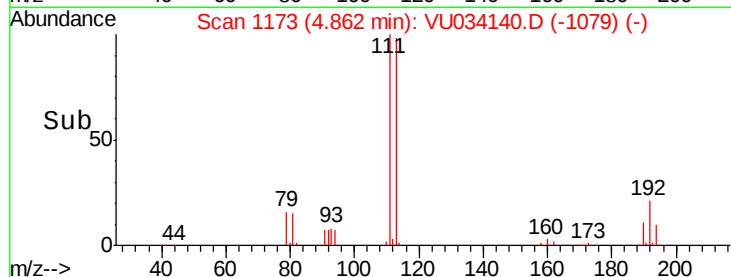
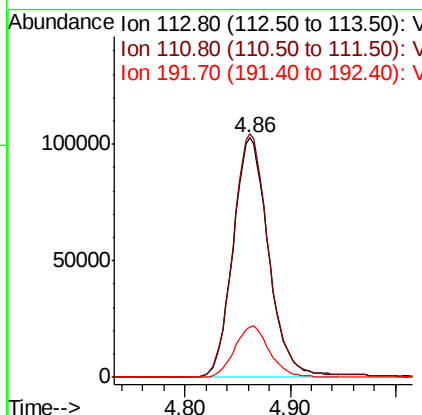
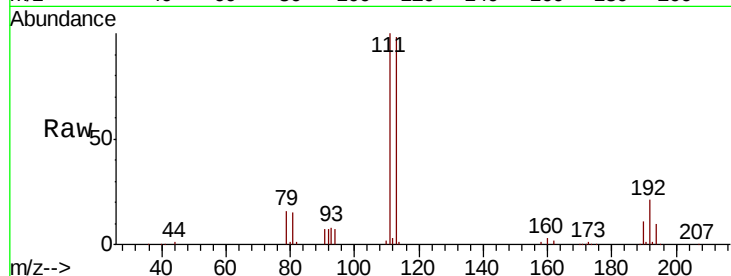




#35
 Dibromofluoromethane
 Concen: 46.709 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034140.D
 Acq: 31 Aug 2019 23:03

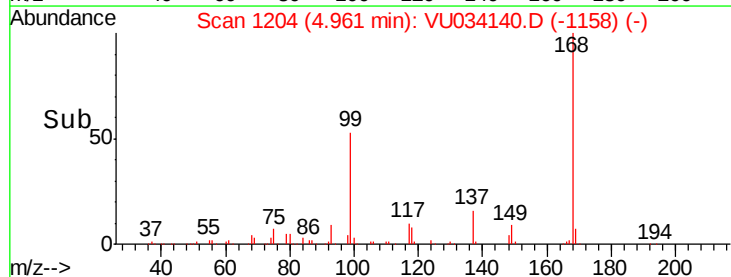
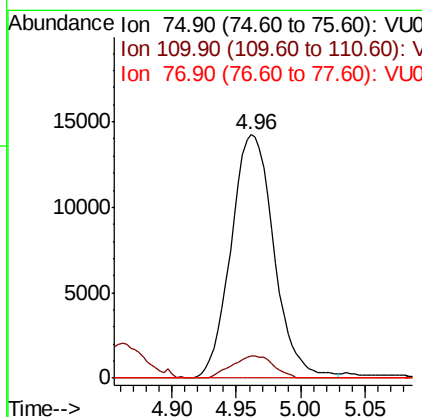
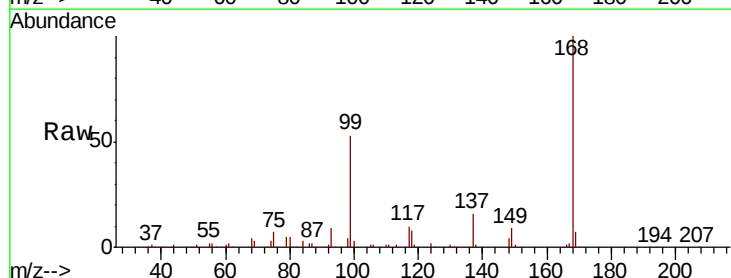
Instrument :
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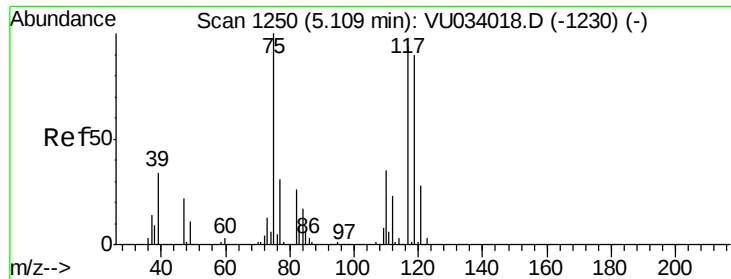
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.7	122.5
192	21.1	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.717 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034140.D
 Acq: 31 Aug 2019 23:03

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	17.8	53.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.209 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034140.D

Acq: 31 Aug 2019 23:03

Instrument :

MSVOA_U

ClientSampleId :

T4-S-D4-(2.5)

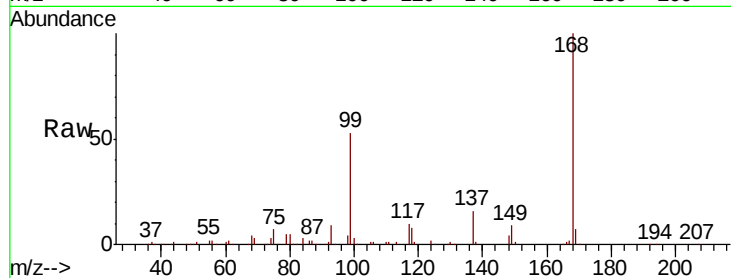
Tgt Ion: 117 Resp: 42015

Ion Ratio Lower Upper

117 100

119 5.9 77.0 115.4#

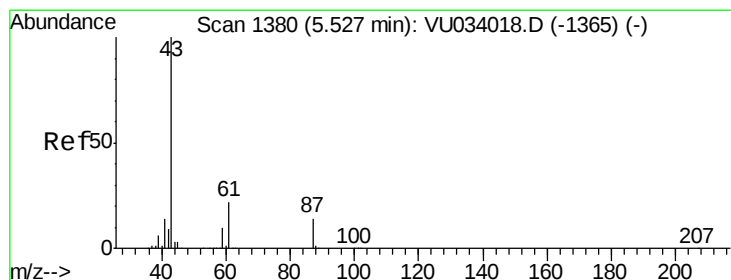
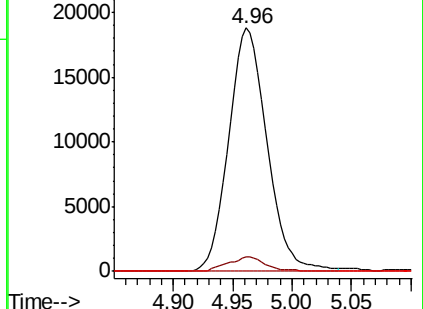
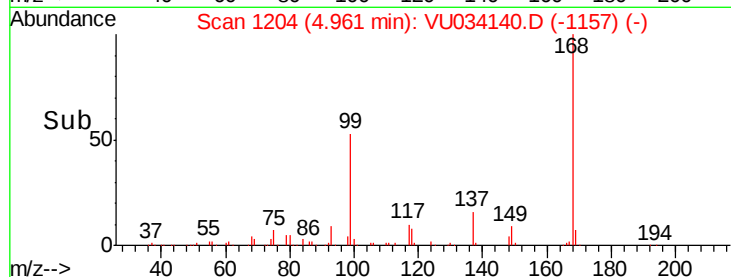
121 0.0 23.9 35.9#



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: 8.484 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU034140.D

Acq: 31 Aug 2019 23:03

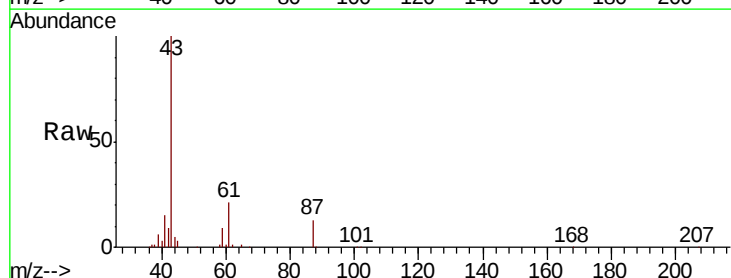
Tgt Ion: 43 Resp: 101332

Ion Ratio Lower Upper

43 100

61 20.5 17.2 25.8

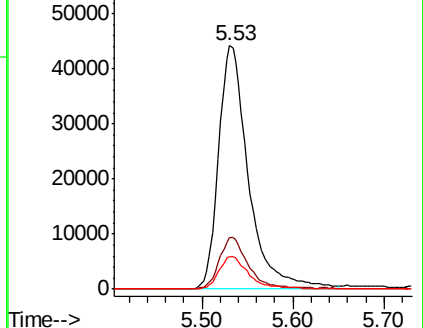
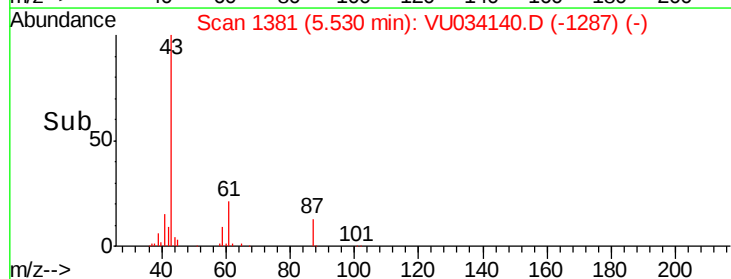
87 13.3 10.8 16.2

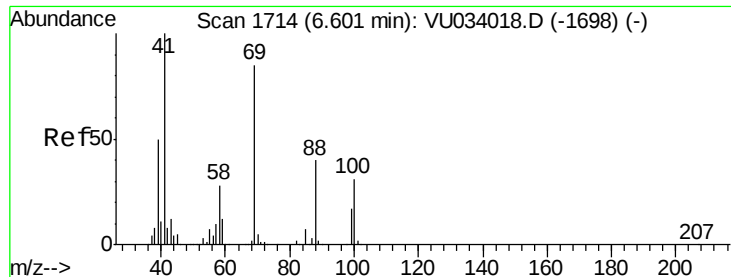


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

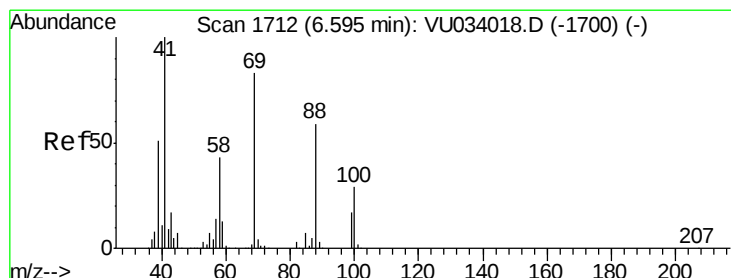
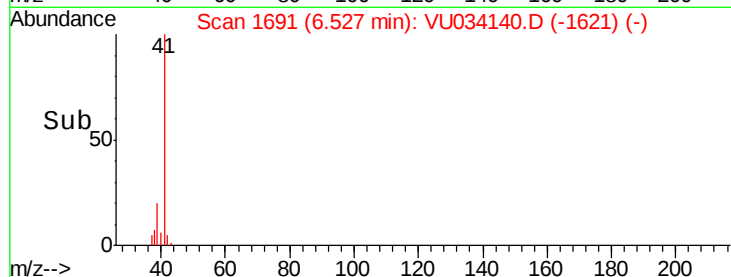
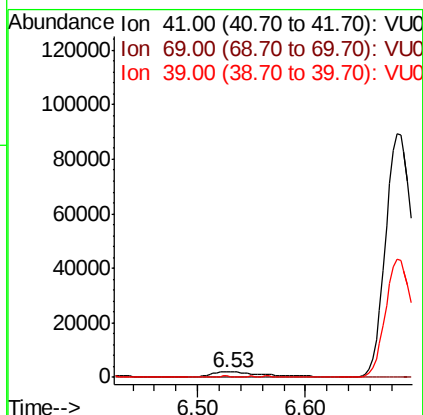
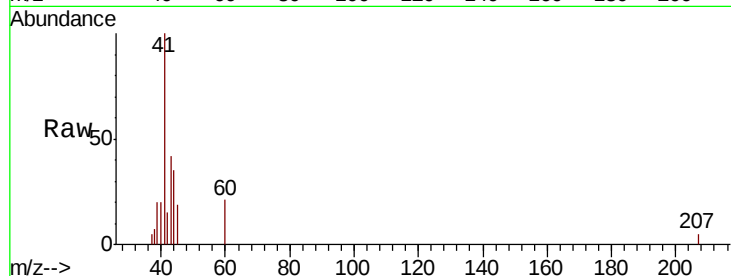




#48
Methyl methacrylate
Concen: 1.068 ug/l
RT: 6.53 min Scan# 1691
Delta R.T. -0.07 min
Lab File: VU034140.D
Acq: 31 Aug 2019 23:03

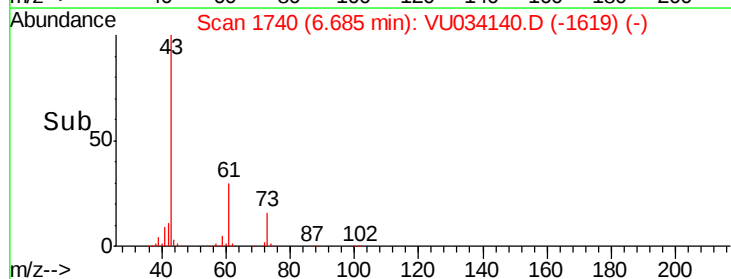
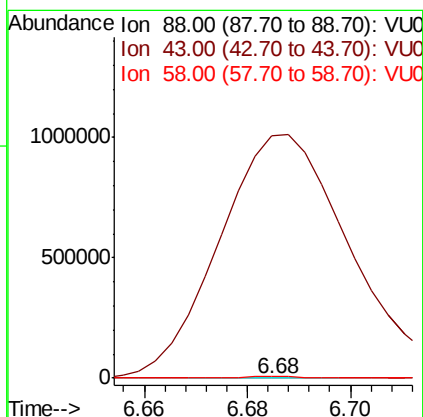
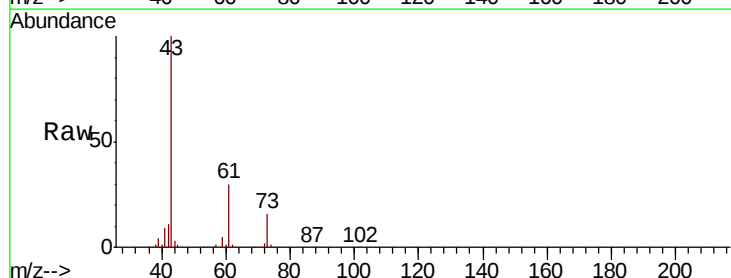
Instrument :
MSVOA_U
ClientSampleId :
T4-S-D4-(2.5)

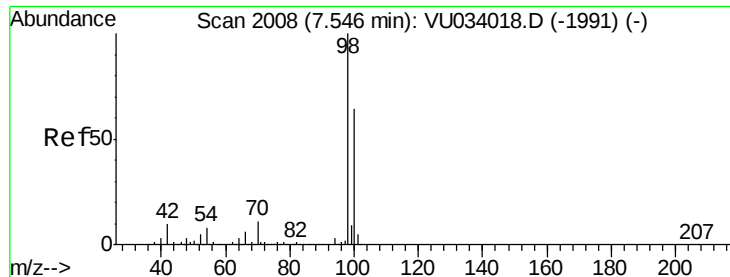
Tgt Ion: 41 Resp: 6155
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#49
1,4-Dioxane
Concen: 1.669 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.09 min
Lab File: VU034140.D
Acq: 31 Aug 2019 23:03

Tgt Ion: 88 Resp: 241
Ion Ratio Lower Upper
88 100
43 775480.5 24.8 37.2#
58 4105.4 59.3 88.9#





#50

Toluene-d8

Concen: 49.939 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034140.D

Acq: 31 Aug 2019 23:03

Instrument :

MSVOA_U

ClientSampleId :

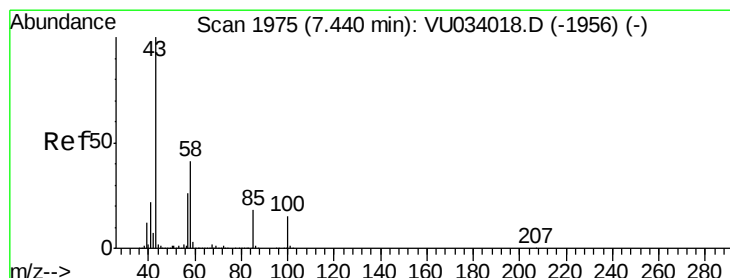
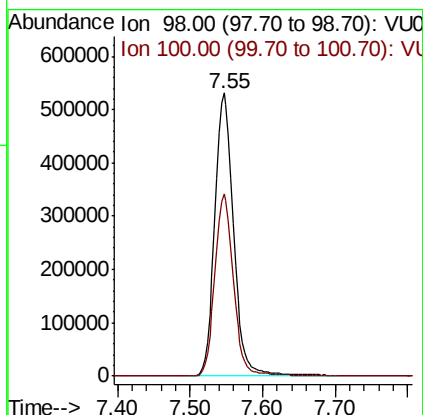
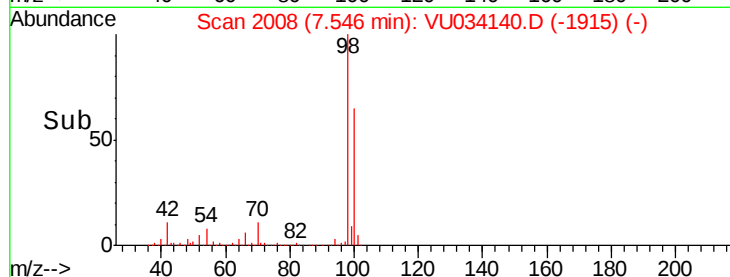
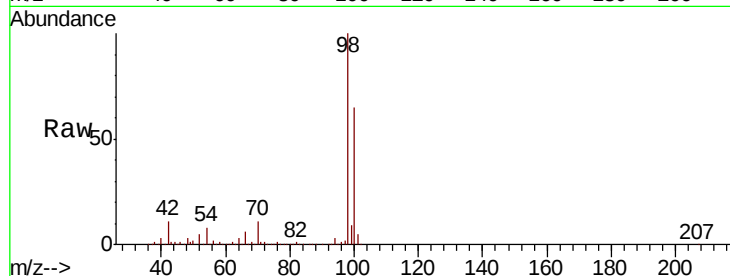
T4-S-D4-(2.5)

Tgt Ion: 98 Resp: 961263

Ion Ratio Lower Upper

98 100

100 64.0 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 11.319 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034140.D

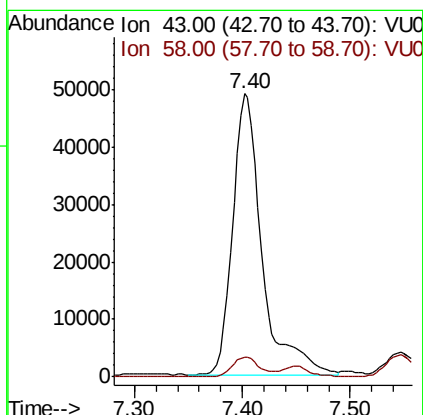
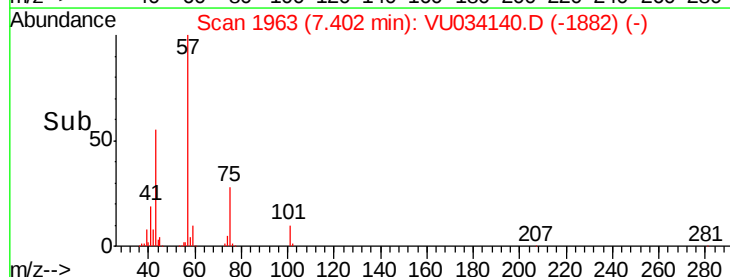
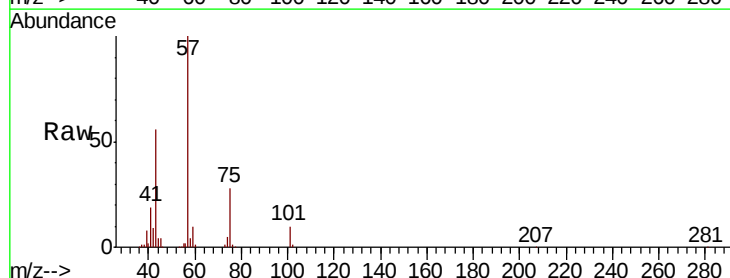
Acq: 31 Aug 2019 23:03

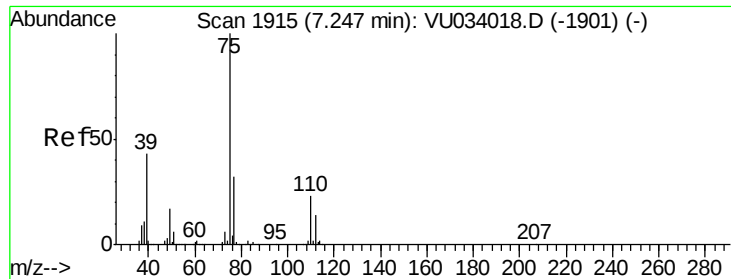
Tgt Ion: 43 Resp: 93359

Ion Ratio Lower Upper

43 100

58 6.4 32.2 48.4#



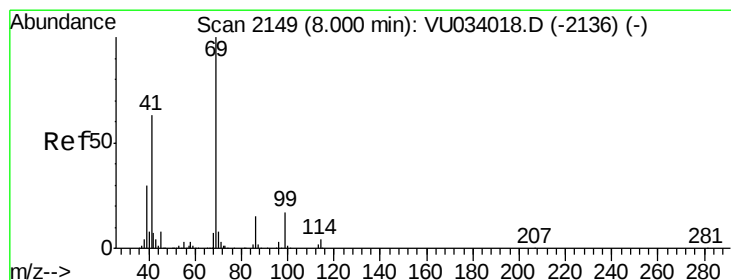
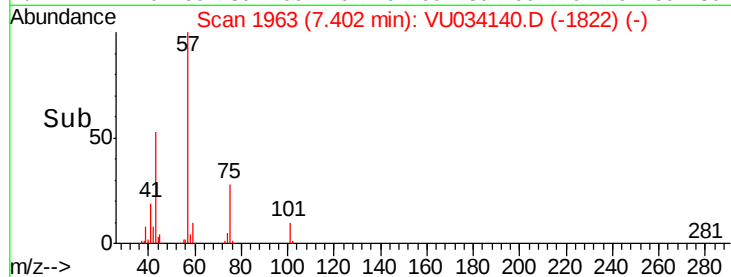
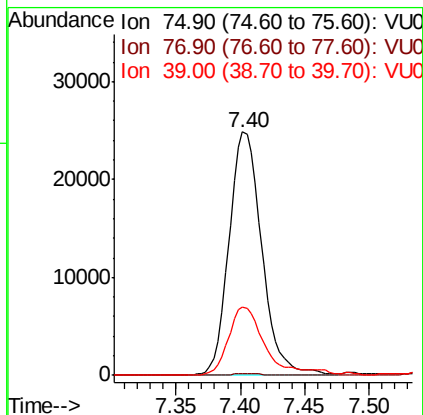
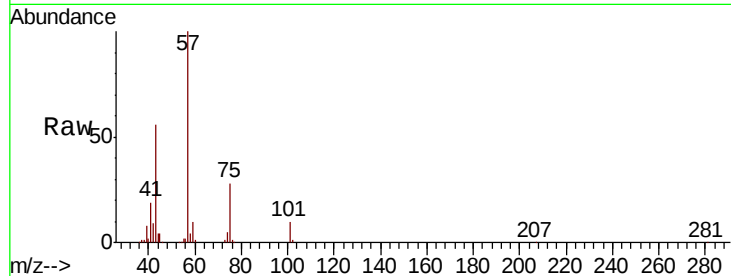


#54

cis-1,3-Dichloropropene
 Concen: 4.930 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034140.D
 Acq: 31 Aug 2019 23:03

Instrument :
 MSVOA_U
 ClientSampleId :
 T4-S-D4-(2.5)

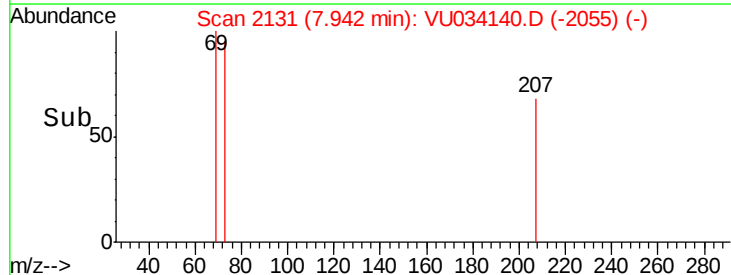
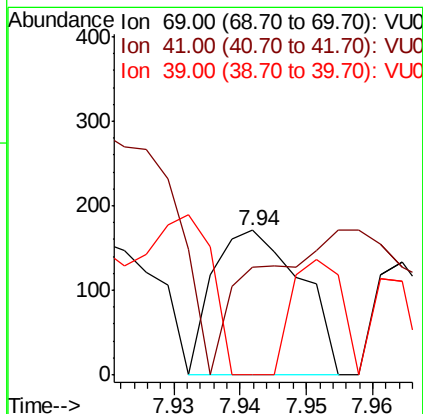
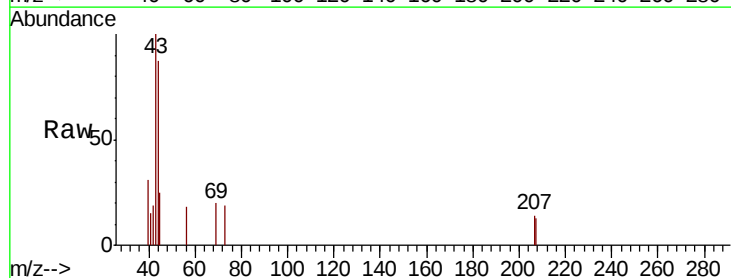
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.6	25.2	37.8#
39	28.0	34.6	51.8#

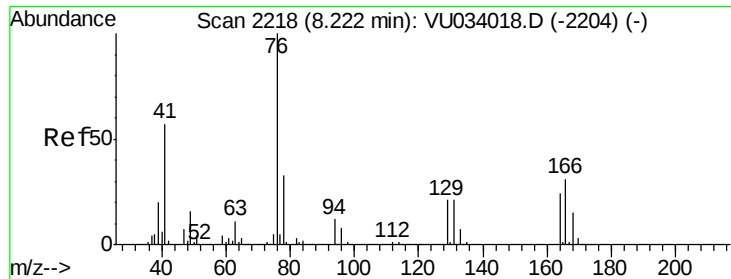


#56

Ethyl methacrylate
 Concen: 0.988 ug/l
 RT: 7.94 min Scan# 2131
 Delta R.T. -0.06 min
 Lab File: VU034140.D
 Acq: 31 Aug 2019 23:03

Tgt Ion	Ratio	Lower	Upper
69	100		
41	0.0	50.7	76.1#
39	0.0	24.2	36.2#

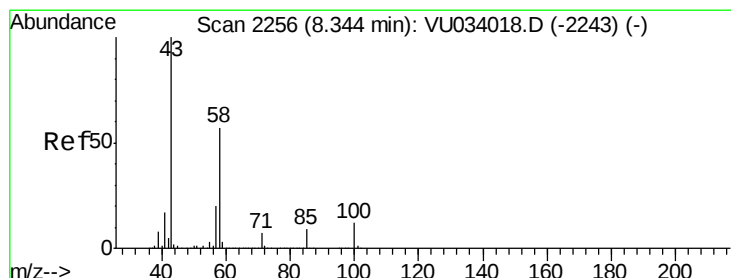
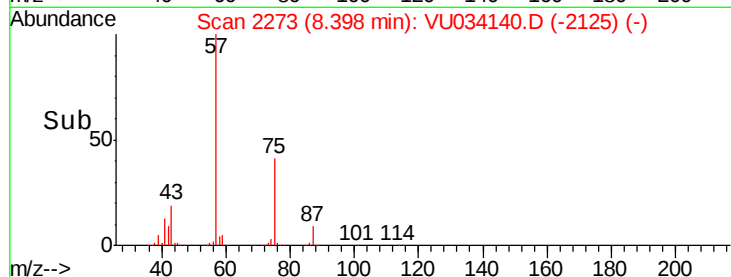
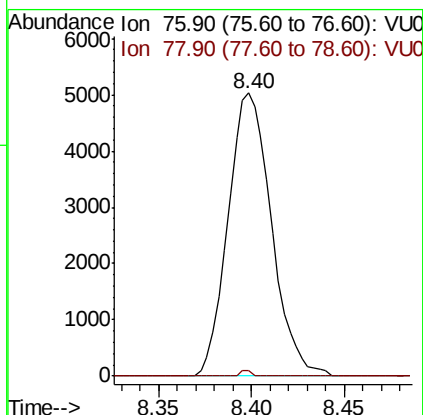
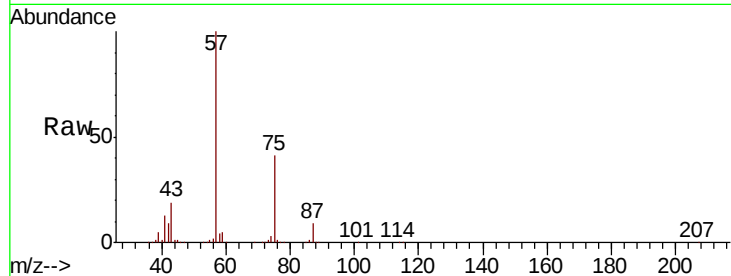




#57
 1,3-Dichloropropane
 Concen: 0.870 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.18 min
 Lab File: VU034140.D
 Acq: 31 Aug 2019 23:03

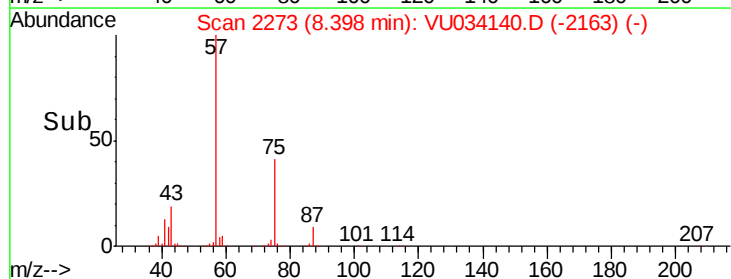
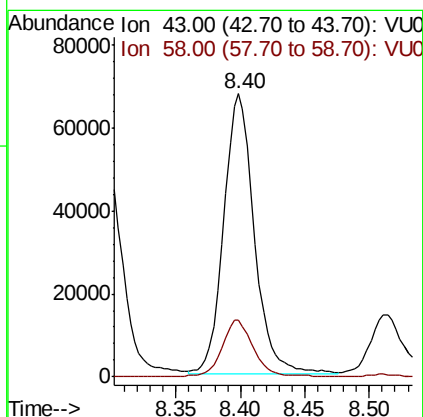
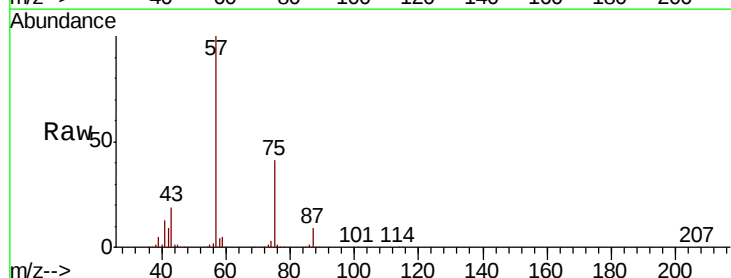
Instrument :
 MSVOA_U
 ClientSampleId :
 T4-S-D4-(2.5)

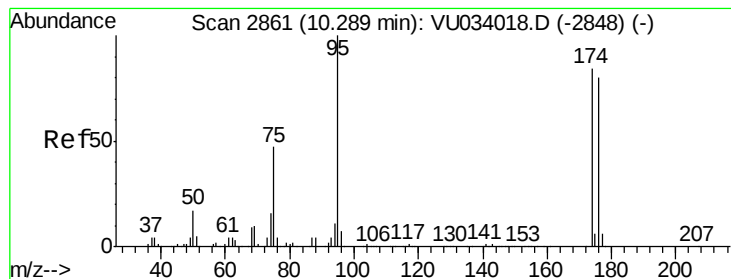
Tgt Ion: 76 Resp: 8163
 Ion Ratio Lower Upper
 76 100
 78 0.5 26.2 39.4#



#59
 2-Hexanone
 Concen: 17.893 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034140.D
 Acq: 31 Aug 2019 23:03

Tgt Ion: 43 Resp: 111417
 Ion Ratio Lower Upper
 43 100
 58 21.1 28.4 85.3#





#62

4-Bromofluorobenzene

Concen: 44.887 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034140.D

Acq: 31 Aug 2019 23:03

Instrument :

MSVOA_U

ClientSampleId :

T4-S-D4-(2.5)

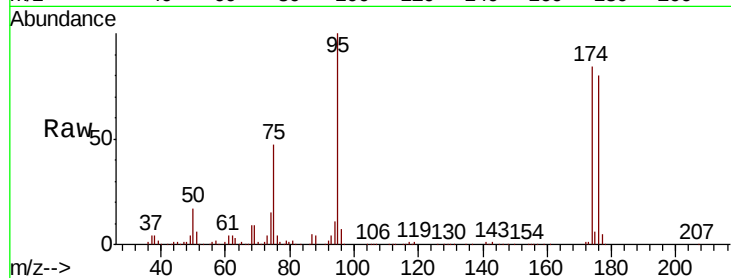
Tgt Ion: 95 Resp: 336100

Ion Ratio Lower Upper

95 100

174 84.9 0.0 168.8

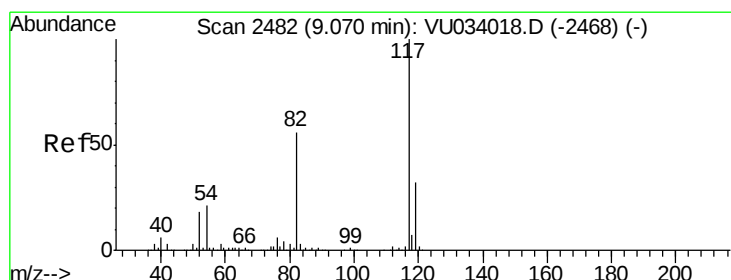
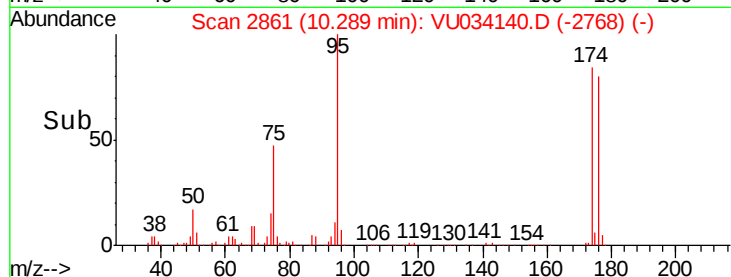
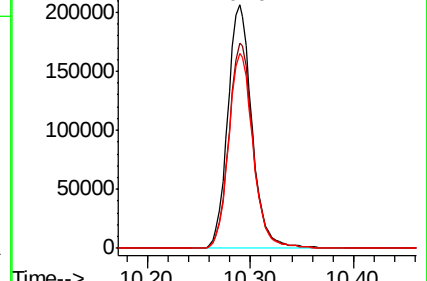
176 81.5 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU034140.D (-2848) (-)

Ion 173.80 (173.50 to 174.50): VU034140.D (-2848) (-)

Ion 175.80 (175.50 to 176.50): VU034140.D (-2848) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034140.D

Acq: 31 Aug 2019 23:03

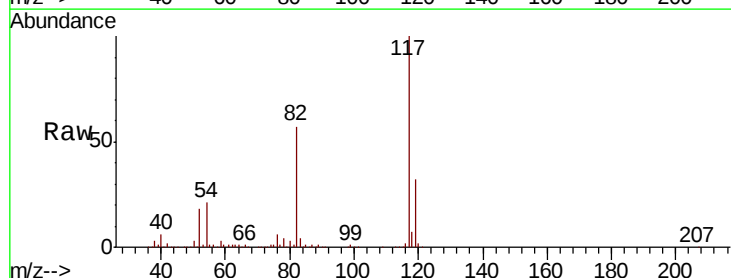
Tgt Ion: 117 Resp: 726378

Ion Ratio Lower Upper

117 100

82 56.6 45.1 67.7

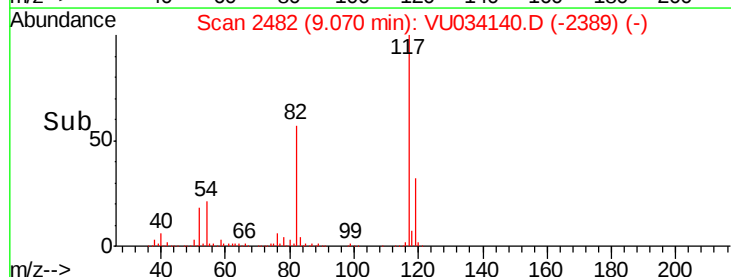
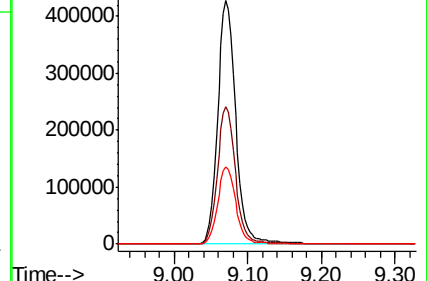
119 31.9 25.4 38.0

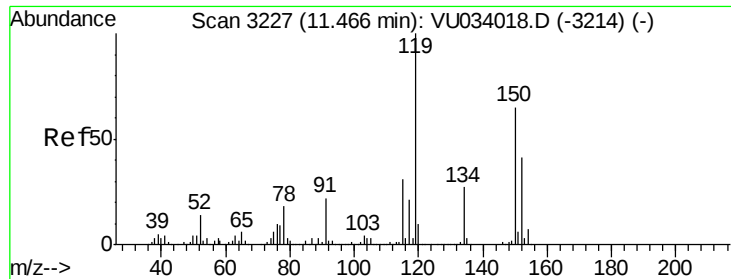


Abundance Ion 116.90 (116.60 to 117.60): VU034140.D (-2468) (-)

Ion 82.00 (81.70 to 82.70): VU034140.D (-2468) (-)

Ion 118.90 (118.60 to 119.60): VU034140.D (-2468) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.47 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VU034140.D

Acq: 31 Aug 2019 23:03

Instrument :

MSVOA_U

ClientSampleId :

T4-S-D4-(2.5)

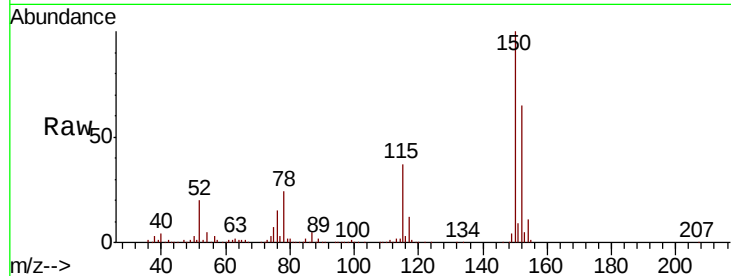
Tgt Ion:152 Resp: 358353

Ion Ratio Lower Upper

152 100

115 56.6 41.1 123.3

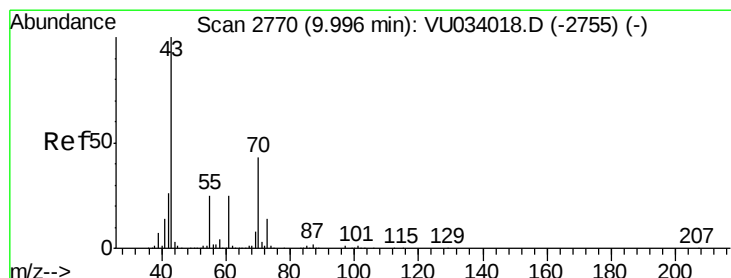
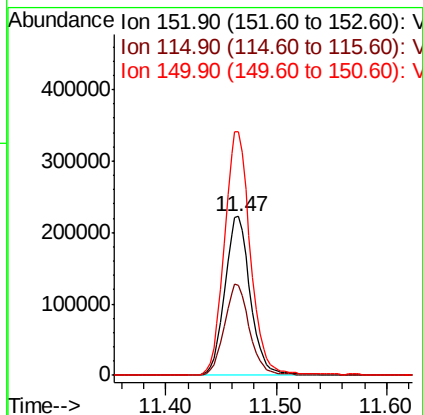
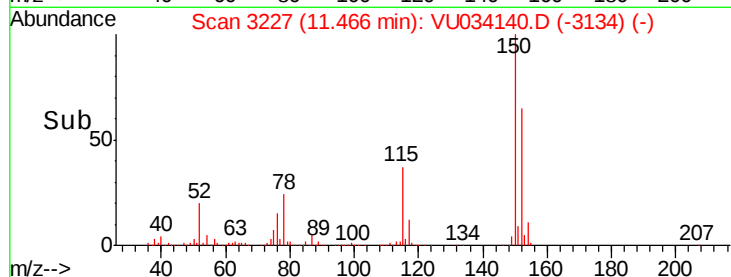
150 155.7 0.0 348.8



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: 0.333 ug/l

RT: 9.92 min Scan# 2745

Delta R.T. -0.08 min

Lab File: VU034140.D

Acq: 31 Aug 2019 23:03

Tgt Ion: 43 Resp: 3372

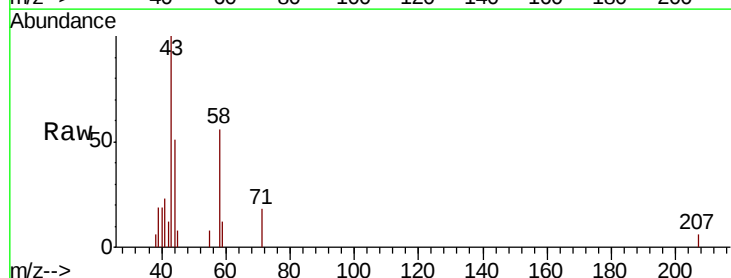
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 6.8 20.5 30.7#

61 0.0 20.0 30.0#

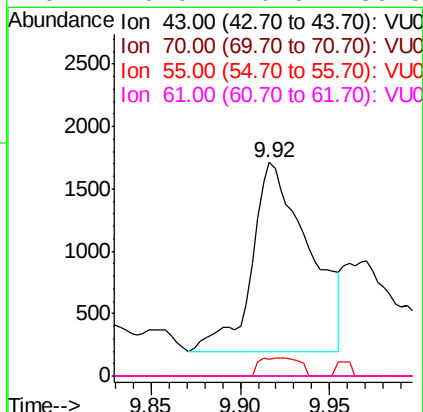
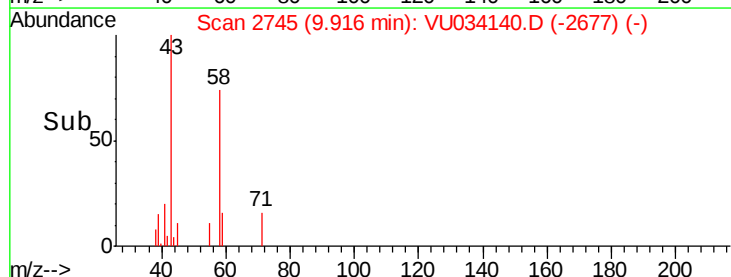


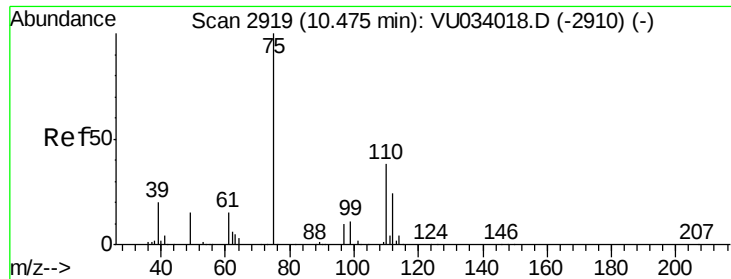
Abundance Ion 43.00 (42.70 to 43.70): VU0

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

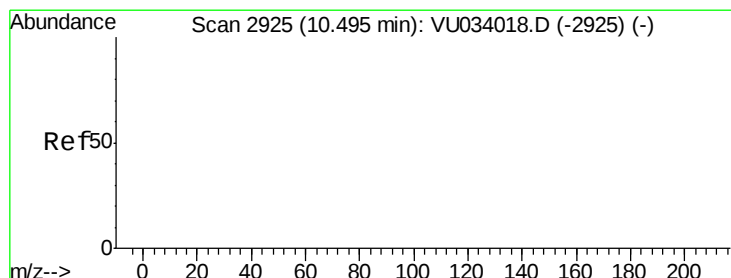
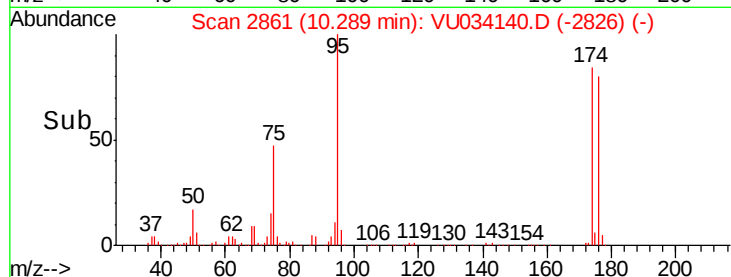
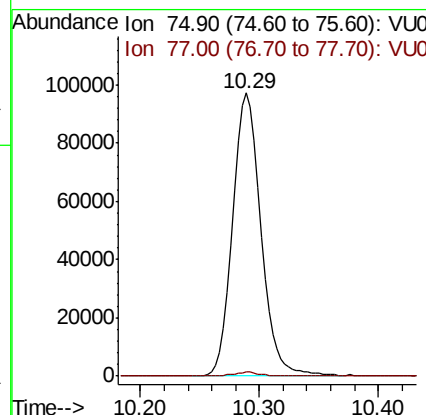
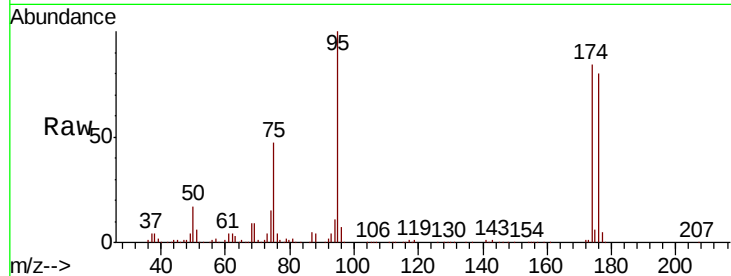




#76
 1,2,3-Trichloropropane
 Concen: 19.901 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034140.D
 Acq: 31 Aug 2019 23:03

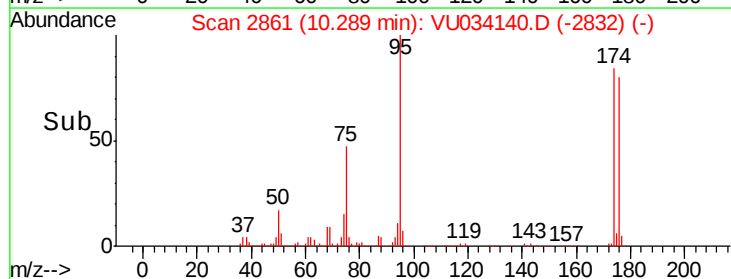
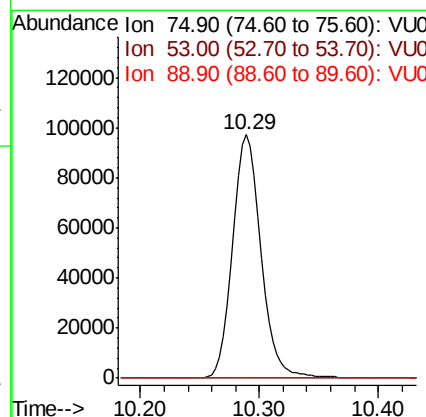
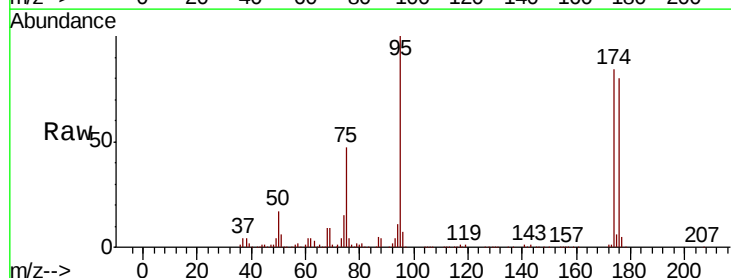
Instrument :
 MSVOA_U
 ClientSampleId :
 T4-S-D4-(2.5)

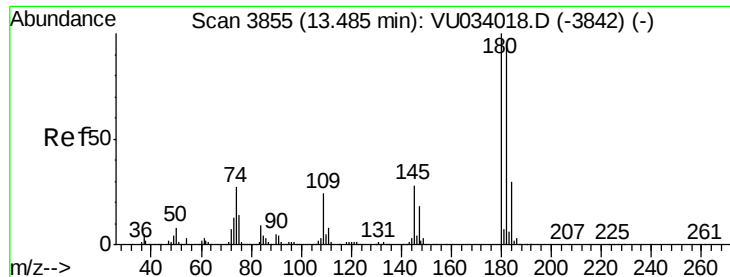
Tgt Ion: 75 Resp: 160736
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.013 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034140.D
 Acq: 31 Aug 2019 23:03

Tgt Ion: 75 Resp: 160736
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0

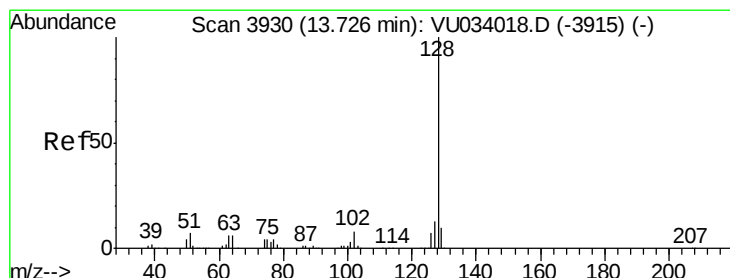
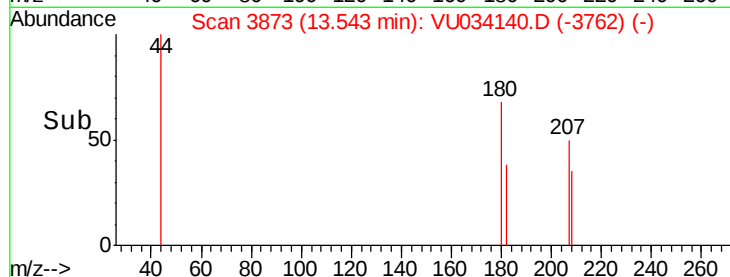
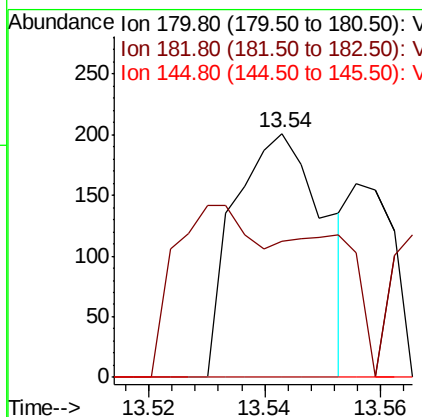
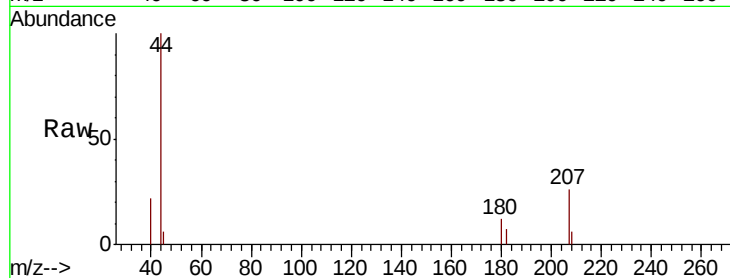




#93
 1,2,4-Trichlorobenzene
 Concen: 1.141 ug/l
 RT: 13.54 min Scan# 3873
 Delta R.T. 0.06 min
 Lab File: VU034140.D
 Acq: 31 Aug 2019 23:03

Instrument :
 MSVOA_U
 ClientSampleId :
 T4-S-D4-(2.5)

Tgt Ion:180 Resp: 216
 Ion Ratio Lower Upper
 180 100
 182 65.3 47.4 142.2
 145 0.0 14.1 42.3#



#95
 Naphthalene
 Concen: 1.802 ug/l
 RT: 13.76 min Scan# 3941
 Delta R.T. 0.04 min
 Lab File: VU034140.D
 Acq: 31 Aug 2019 23:03

Tgt Ion:128 Resp: 283
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.4#
 129 0.0 8.4 12.6#

