

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU083019\
 Data File : VU034055.D
 Acq On : 29 Aug 2019 12:34
 Operator : JC/SP
 Sample : K4596-11
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

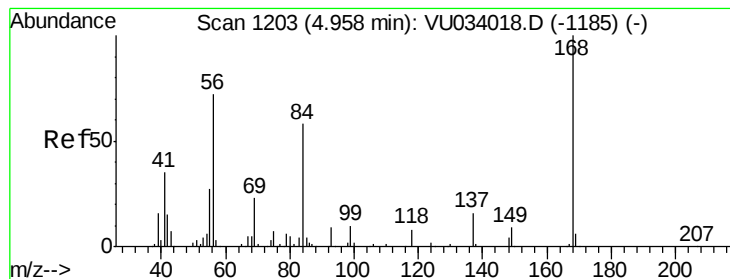
Quant Time: Aug 29 13:47:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	454792	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	725270	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	697761	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	330606	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	297255	51.01	ug/l	0.00
Spiked Amount			Recovery	=	102.02%	
35) Dibromofluoromethane	4.86	113	243267	48.36	ug/l	0.00
Spiked Amount			Recovery	=	96.72%	
50) Toluene-d8	7.55	98	920198	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
62) 4-Bromofluorobenzene	10.29	95	312071	42.59	ug/l	0.00
Spiked Amount			Recovery	=	85.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1209	Below Cal	#	86
5) Bromomethane	1.60	94	92	Below Cal	#	2
16) Acetone	2.31	43	26651	8.963	ug/l	98
20) Methylene Chloride	2.69	84	20208	3.590	ug/l	94
25) 2-Butanone	4.28	43	1757	0.425	ug/l	90
29) Tetrahydrofuran	4.65	42	1523	0.597	ug/l #	80
31) Cyclohexane	4.96	56	7943	0.913	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	33229	4.844	ug/l #	49
38) Carbon Tetrachloride	4.96	117	41495	6.266	ug/l #	16
51) 4-Methyl-2-Pentanone	7.45	43	2690	0.333	ug/l #	68
76) 1,2,3-Trichloropropane	10.29	75	152094	20.412	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	152094	68.731	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.52	180	86	1.126	ug/l #	12
95) Naphthalene	13.76	128	155	1.797	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: VU034055.D

Acq: 29 Aug 2019 12:34

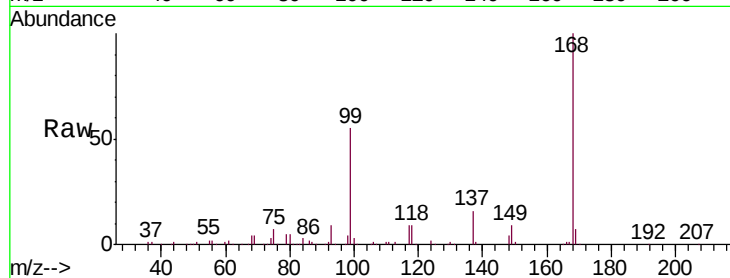
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 454792

Ion Ratio Lower Upper

168 100

99 54.9 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

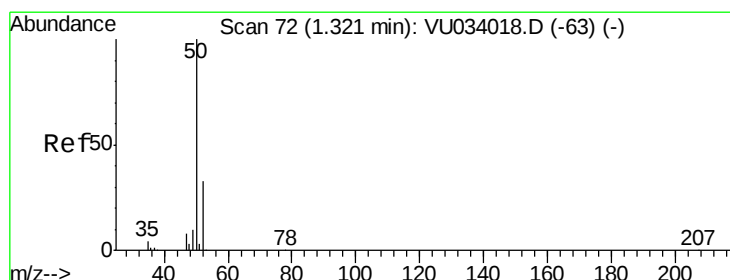
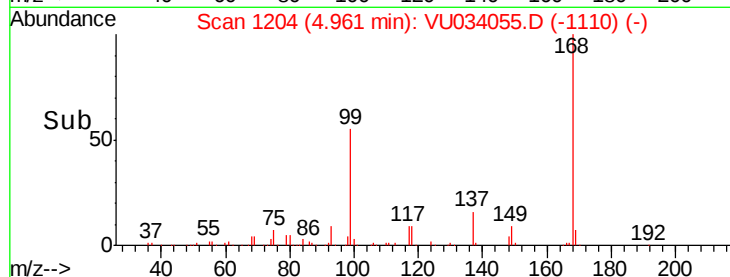
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034055.D

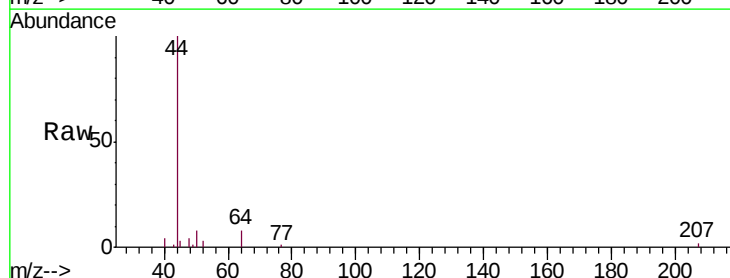
Acq: 29 Aug 2019 12:34

Tgt Ion: 50 Resp: 1209

Ion Ratio Lower Upper

50 100

52 40.6 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) (-)

1.32

1000

800

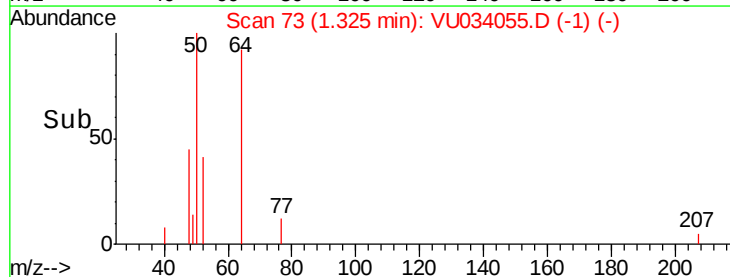
600

400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.60 min Scan# 160

Delta R.T. 0.01 min

Lab File: VU034055.D

Acq: 29 Aug 2019 12:34

Instrument :

MSVOA_U

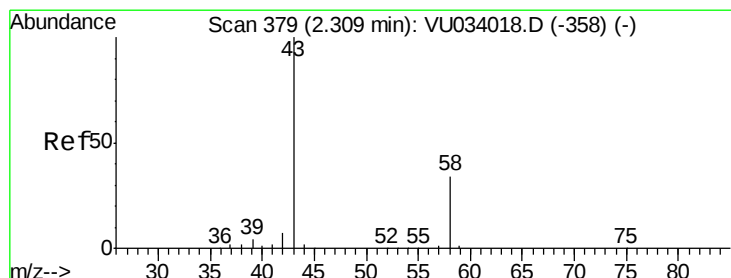
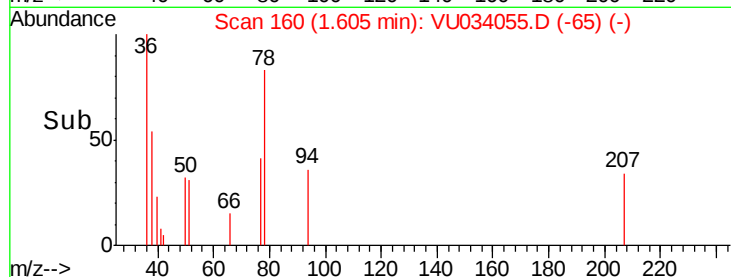
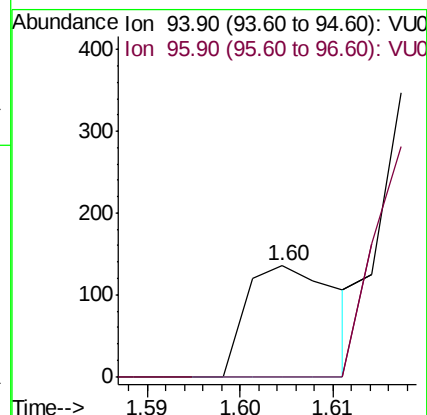
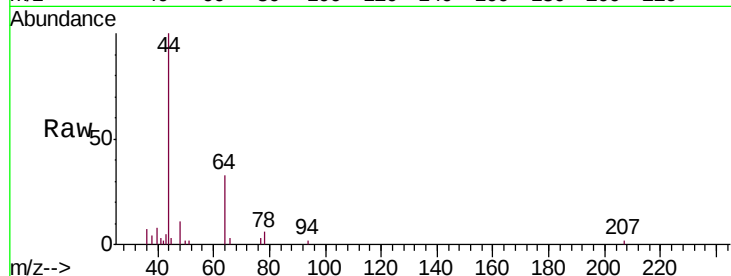
ClientSampled :

Tot Ion: 94 Resp: 92

Ion Ratio Lower Upper

94 100

96 0.0 76.3 114.5#



#16

Acetone

Concen: 8.963 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034055.D

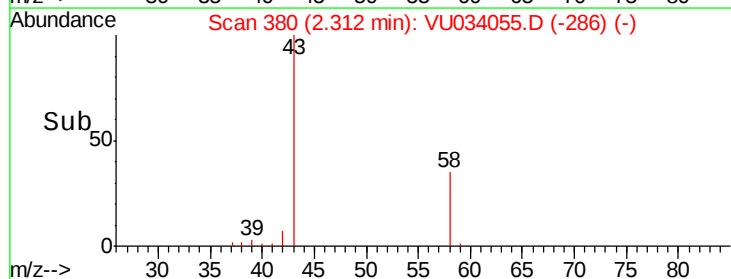
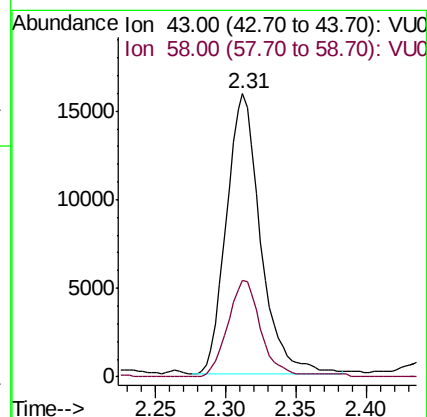
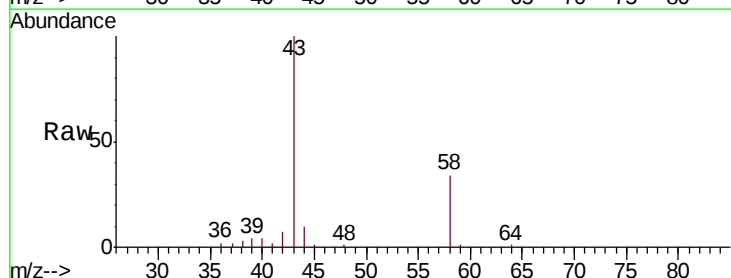
Acq: 29 Aug 2019 12:34

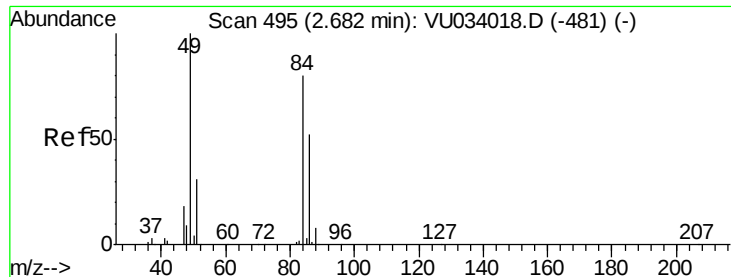
Tgt Ion: 43 Resp: 26651

Ion Ratio Lower Upper

43 100

58 34.6 26.8 40.2

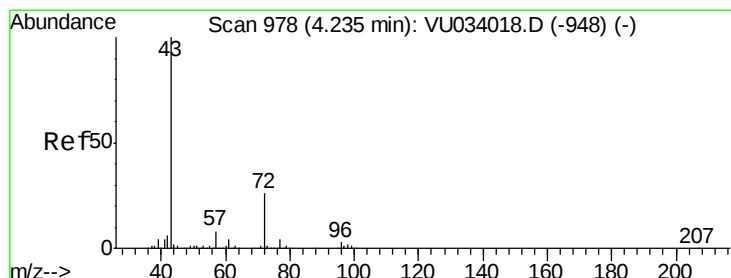
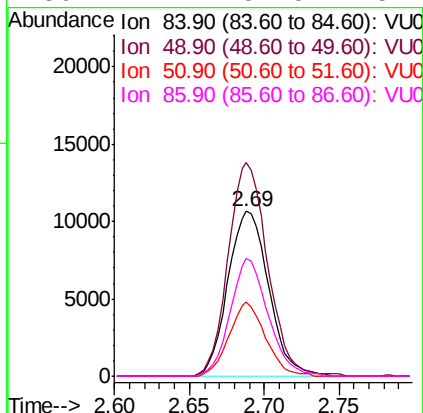
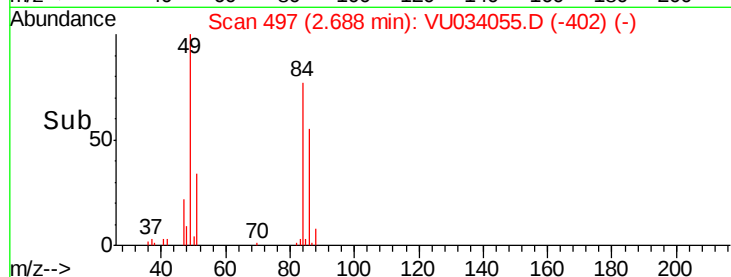
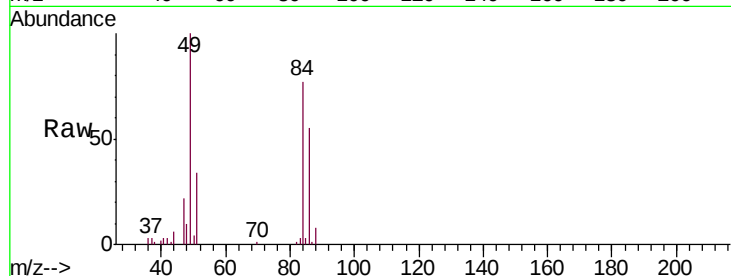




#20
Methvlene Chloride
Concen: 3.590 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034055.D
Acq: 29 Aug 2019 12:34

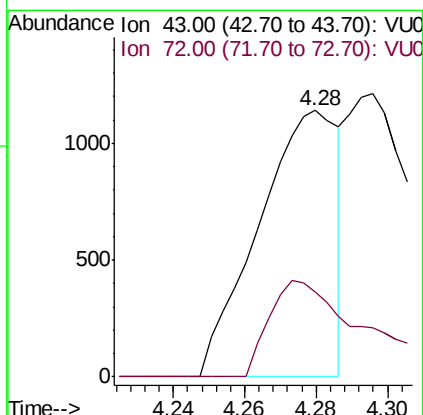
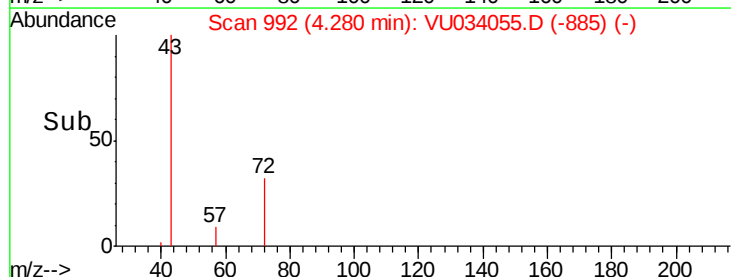
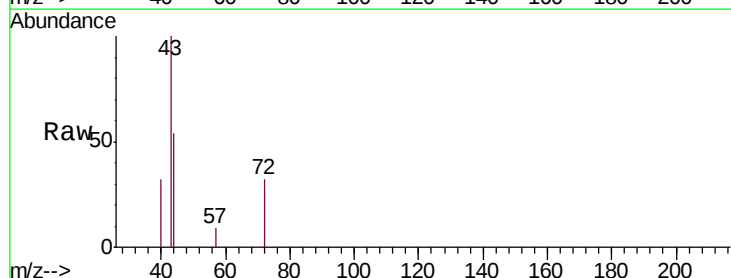
Instrument :
MSVOA_U
ClientSampleId :

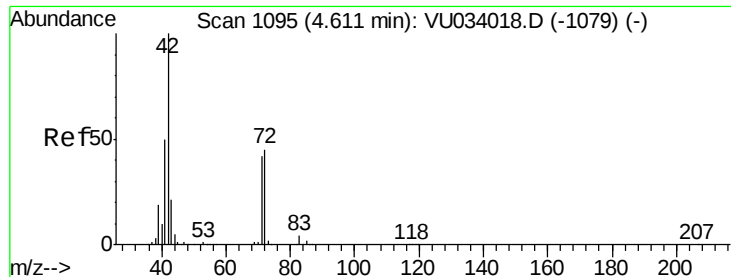
Tot Ion: 84 Resp: 20208
Ion Ratio Lower Upper
84 100
49 129.4 100.2 150.4
51 44.6 30.8 46.2
86 71.4 52.5 78.7



#25
2-Butanone
Concen: 0.425 ug/l
RT: 4.28 min Scan# 992
Delta R.T. 0.05 min
Lab File: VU034055.D
Acq: 29 Aug 2019 12:34

Tgt Ion: 43 Resp: 1757
Ion Ratio Lower Upper
43 100
72 31.8 21.2 31.8





#29

Tetrahydrofuran

Concen: 0.597 ug/l

RT: 4.65 min Scan# 1108

Delta R.T. 0.04 min

Lab File: VU034055.D

Acq: 29 Aug 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

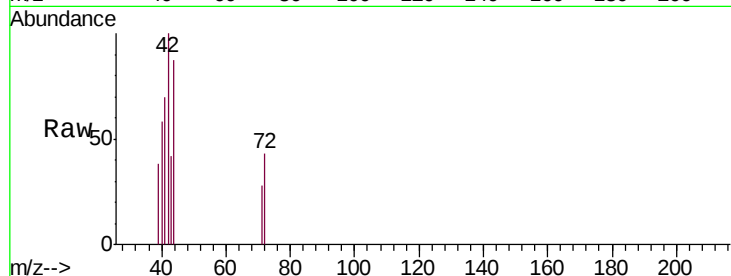
Tot Ion: 42 Resp: 1523

Ion Ratio Lower Upper

42 100

72 46.0 35.8 53.6

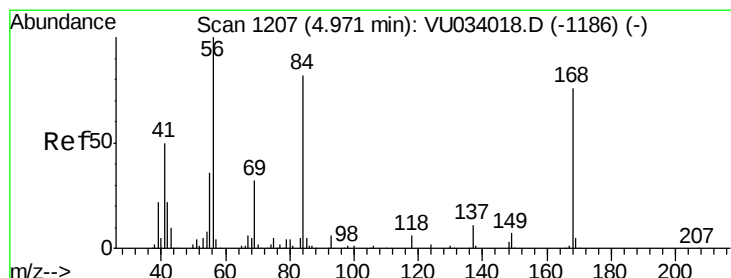
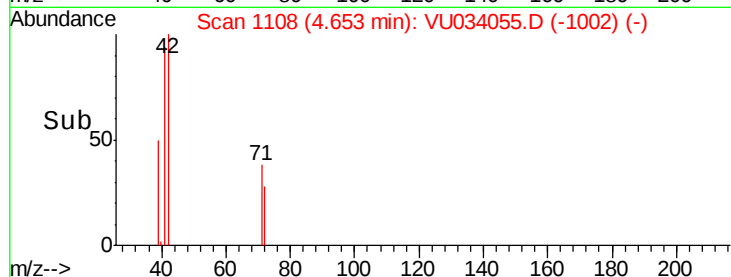
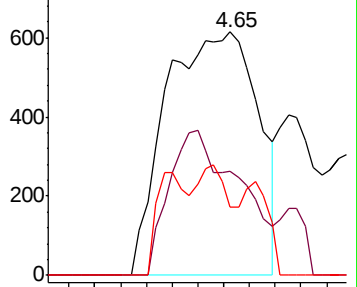
71 17.3 34.0 51.0#



Abundance Ion 42.00 (41.70 to 42.70): VU034018.D (-1079) (-)

Ion 72.00 (71.70 to 72.70): VU034018.D (-1079) (-)

Ion 71.00 (70.70 to 71.70): VU034018.D (-1079) (-)



#31

Cyclohexane

Concen: 0.913 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034055.D

Acq: 29 Aug 2019 12:34

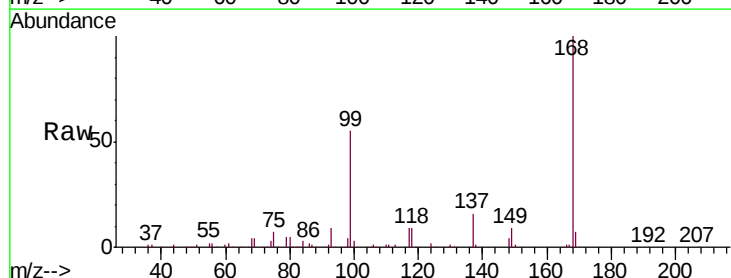
Tgt Ion: 56 Resp: 7943

Ion Ratio Lower Upper

56 100

69 206.5 25.4 38.0#

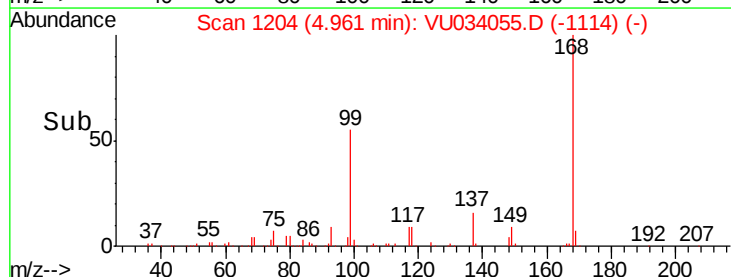
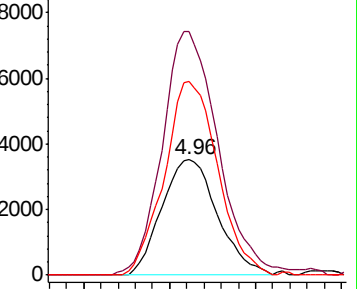
84 167.7 65.8 98.8#

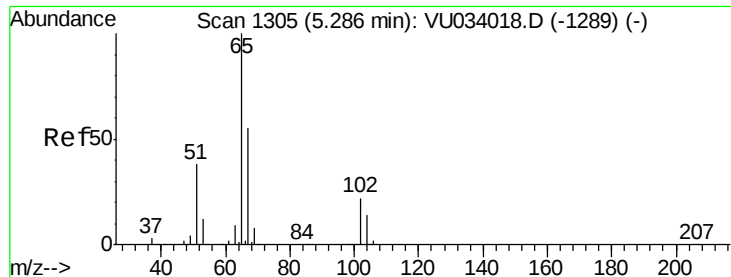


Abundance Ion 56.00 (55.70 to 56.70): VU034018.D (-1186) (-)

Ion 69.00 (68.70 to 69.70): VU034018.D (-1186) (-)

Ion 84.00 (83.70 to 84.70): VU034018.D (-1186) (-)





#33

1,2-Dichloroethane-d4

Concen: 51.010 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034055.D

Acq: 29 Aug 2019 12:34

Instrument :

MSVOA_U

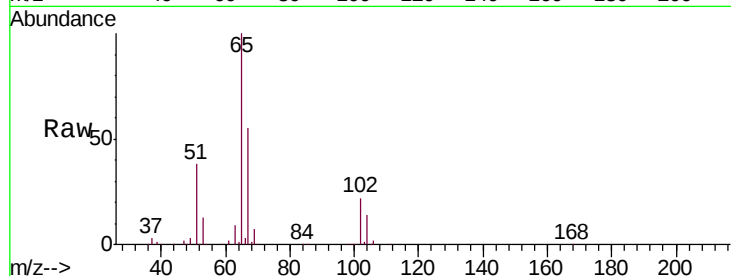
ClientSampled :

Tot Ion: 65 Resp: 297255

Ion Ratio Lower Upper

65 100

67 53.7 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034018.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034018.D (-1289) (-)

5.29

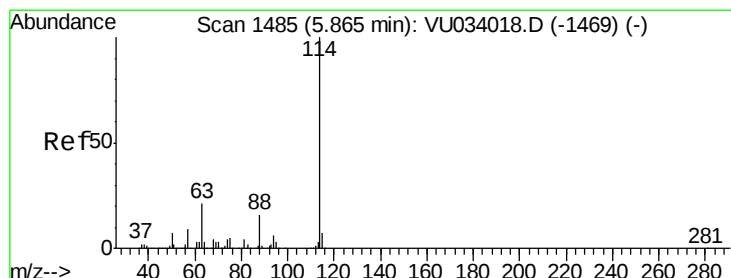
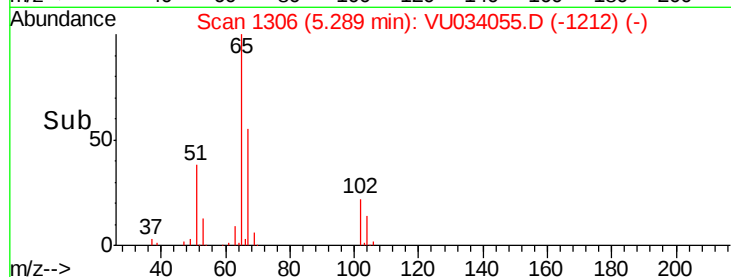
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034055.D

Acq: 29 Aug 2019 12:34

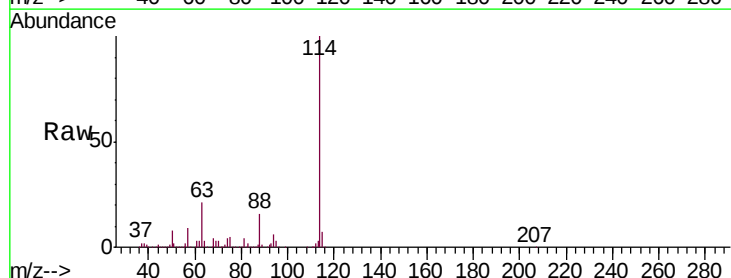
Tgt Ion: 114 Resp: 725270

Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.0

88 15.8 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): VU034018.D (-1469) (-)

Ion 63.00 (62.70 to 63.70): VU034018.D (-1469) (-)

Ion 87.90 (87.60 to 88.60): VU034018.D (-1469) (-)

5.87

400000

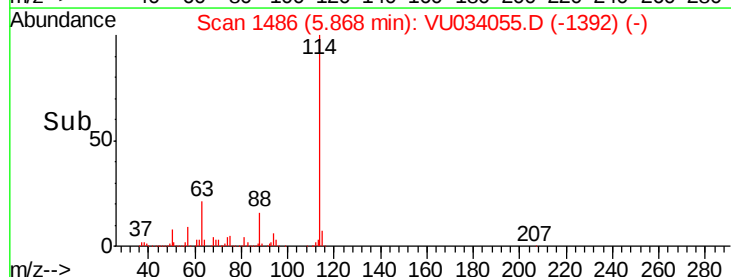
300000

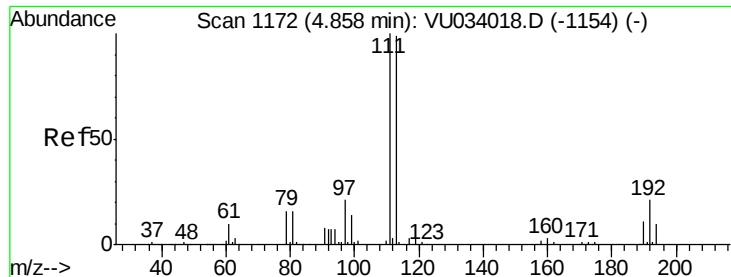
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 48.359 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034055.D

Acq: 29 Aug 2019 12:34

Instrument :
MSVOA_U
ClientSampled :

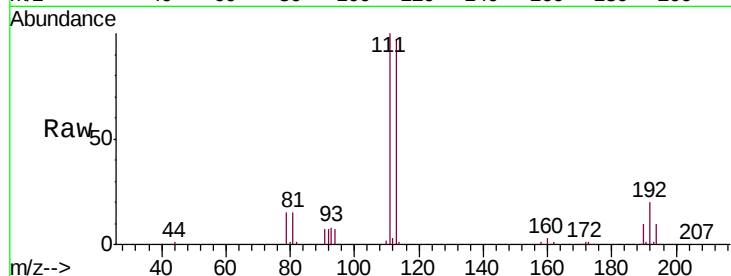
Tot Ion:113 Resp: 243267

Ion Ratio Lower Upper

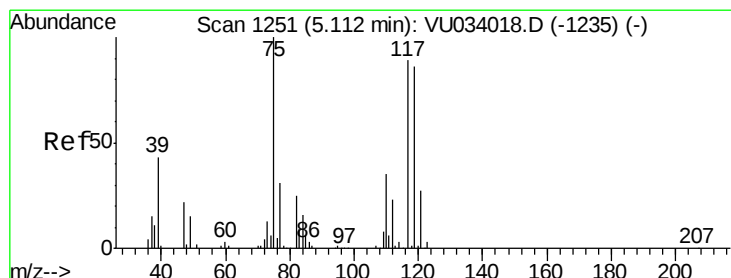
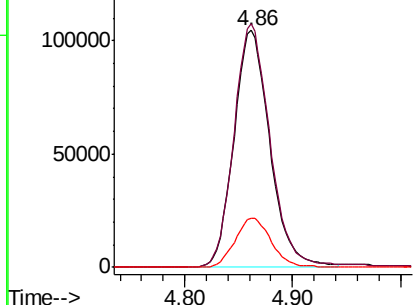
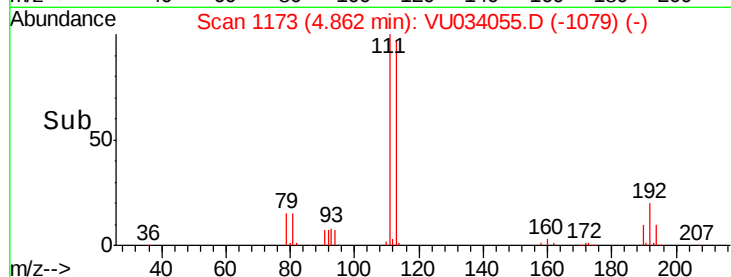
113 100

111 102.9 81.7 122.5

192 21.0 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: 4.844 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.15 min

Lab File: VU034055.D

Acq: 29 Aug 2019 12:34

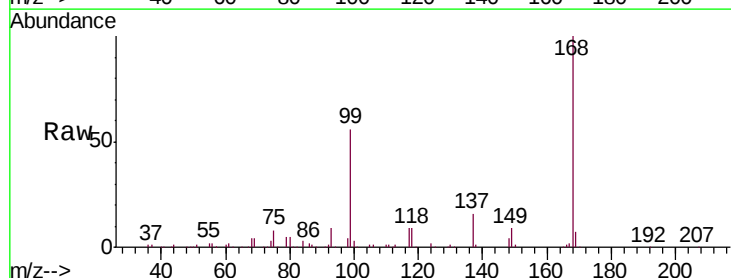
Tgt Ion: 75 Resp: 33229

Ion Ratio Lower Upper

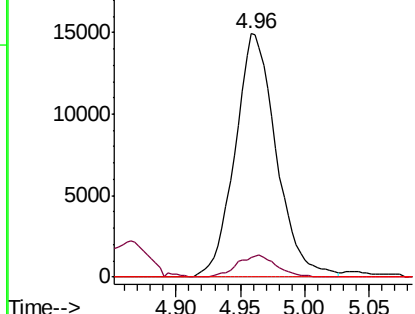
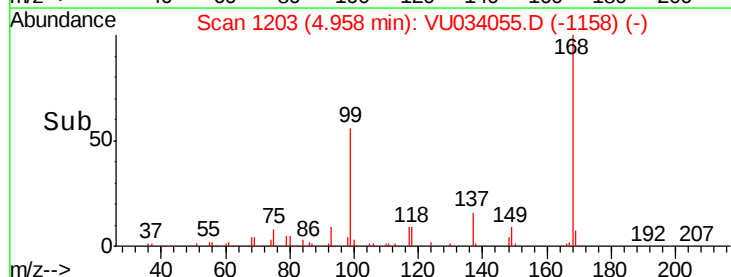
75 100

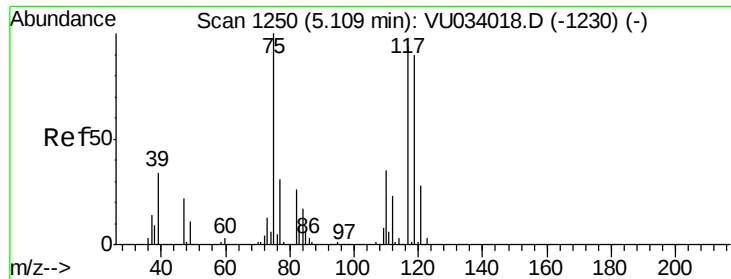
110 8.7 17.8 53.5#

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VU0

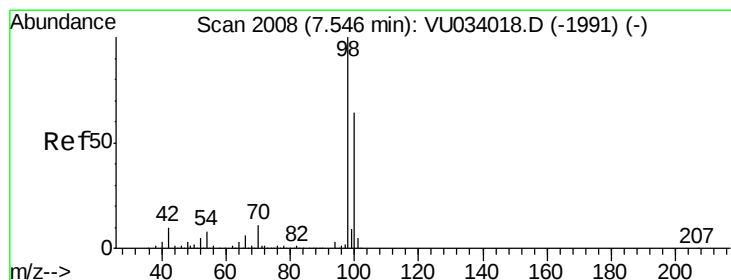
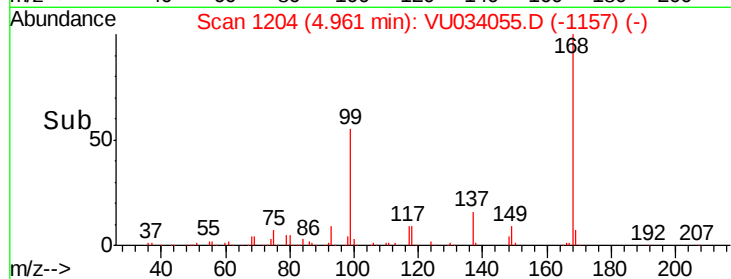
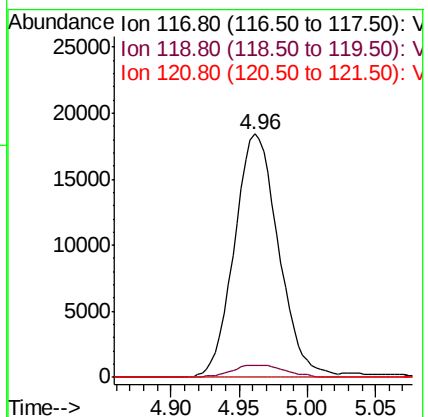
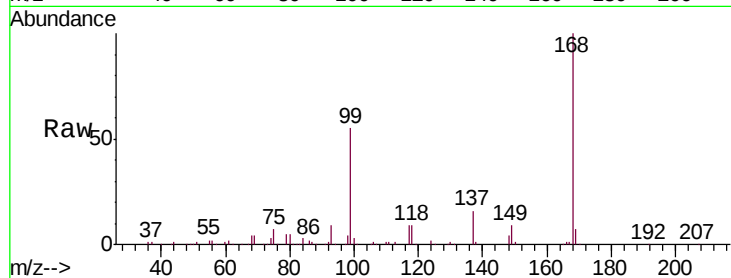




#38
Carbon Tetrachloride
Concen: 6.266 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.15 min
Lab File: VU034055.D
Acq: 29 Aug 2019 12:34

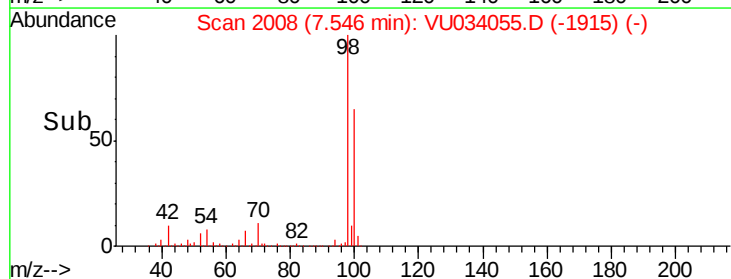
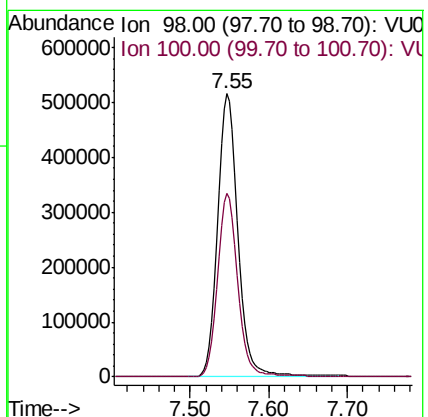
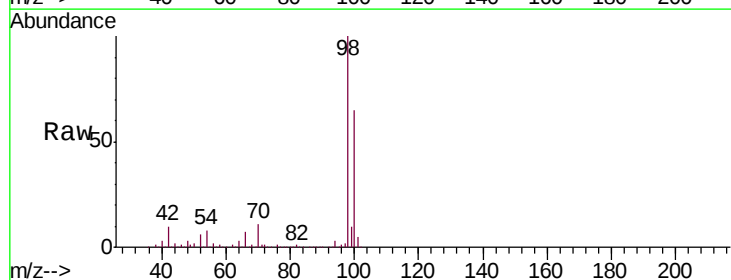
Instrument :
MSVOA_U
ClientSampleId :

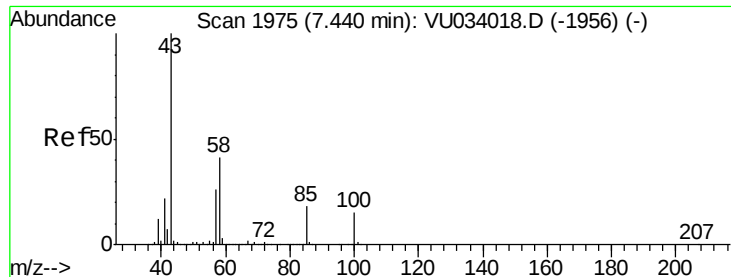
Tot Ion:117 Resp: 41495
Ion Ratio Lower Upper
117 100
119 4.8 77.0 115.4#
121 0.0 23.9 35.9#



#50
Toluene-d8
Concen: 48.854 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034055.D
Acq: 29 Aug 2019 12:34

Tgt Ion: 98 Resp: 920198
Ion Ratio Lower Upper
98 100
100 64.0 50.3 75.5

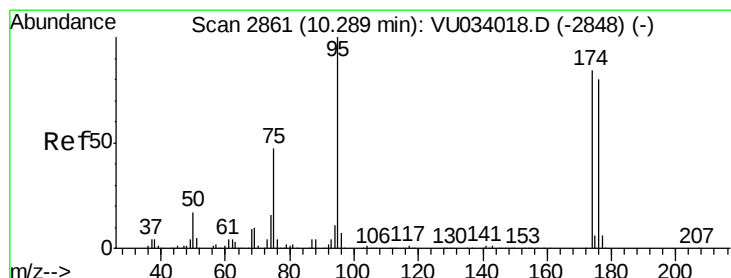
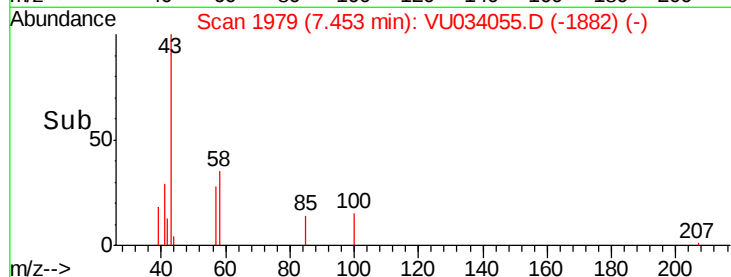
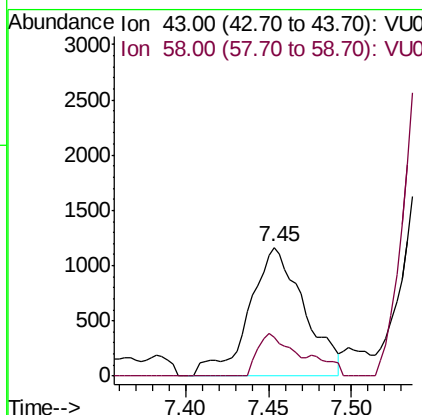
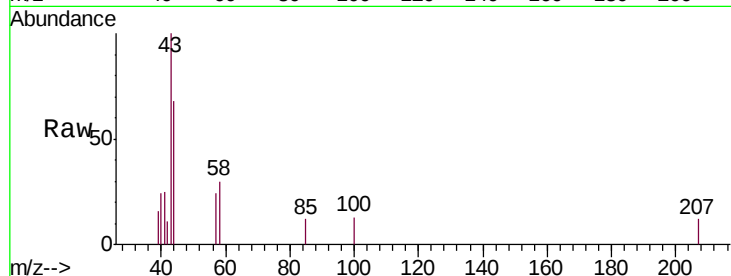




#51
4-Methyl-2-Pentanone
Concen: 0.333 ug/l
RT: 7.45 min Scan# 1979
Delta R.T. 0.01 min
Lab File: VU034055.D
Acq: 29 Aug 2019 12:34

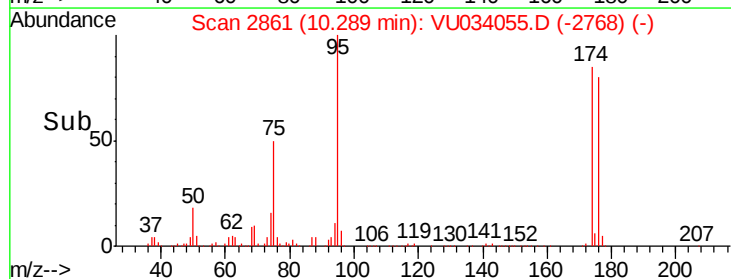
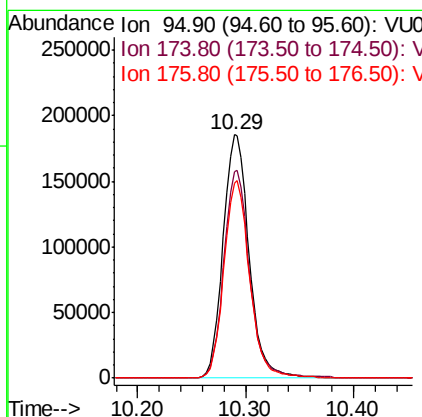
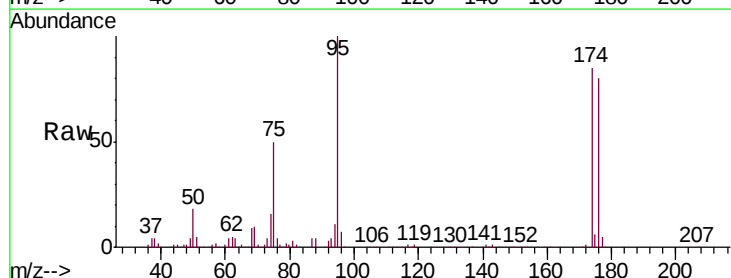
Instrument :
MSVOA_U
ClientSampled :

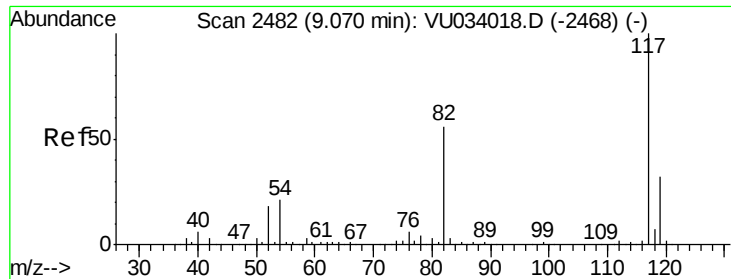
Tot Ion: 43 Resp: 2690
Ion Ratio Lower Upper
43 100
58 20.3 32.2 48.4#



#62
4-Bromofluorobenzene
Concen: 42.592 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034055.D
Acq: 29 Aug 2019 12:34

Tgt Ion: 95 Resp: 312071
Ion Ratio Lower Upper
95 100
174 84.9 0.0 168.8
176 80.2 0.0 161.8

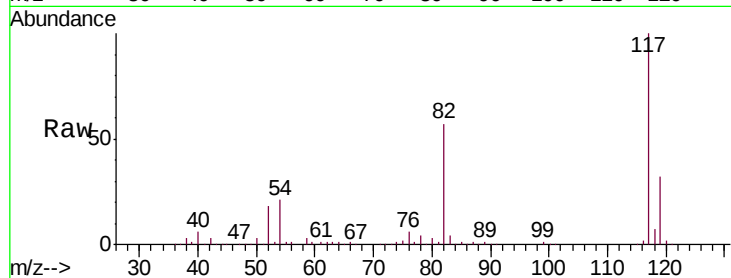




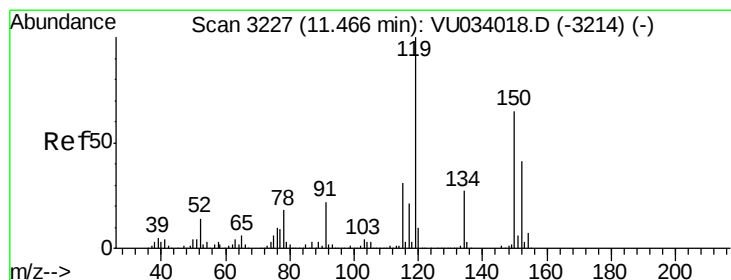
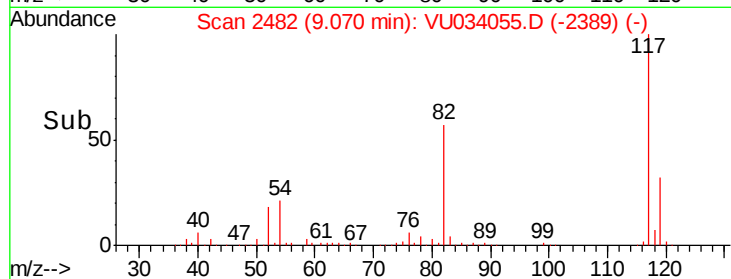
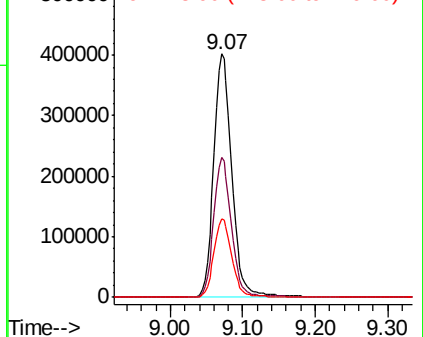
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034055.D
Acq: 29 Aug 2019 12:34

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 697761
Ion Ratio Lower Upper
117 100
82 57.2 45.1 67.7
119 32.3 25.4 38.0

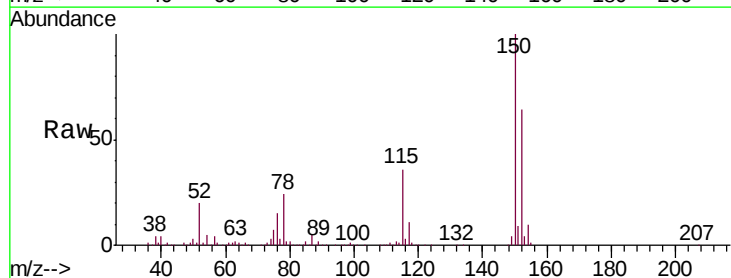


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

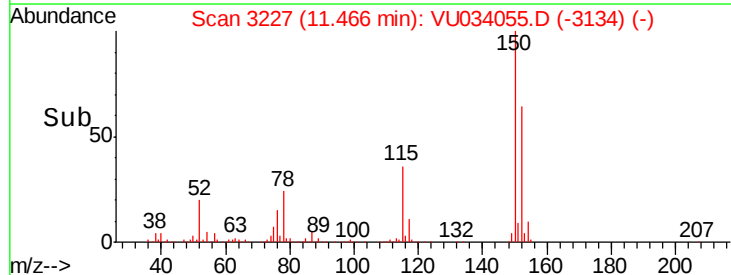
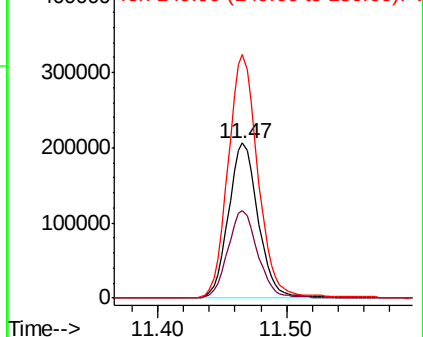


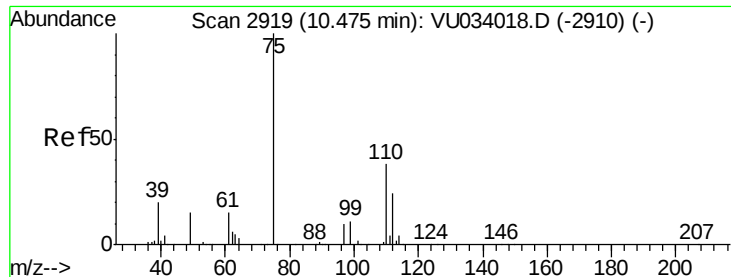
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.47 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VU034055.D
Acq: 29 Aug 2019 12:34

Tgt Ion:152 Resp: 330606
Ion Ratio Lower Upper
152 100
115 57.0 41.1 123.3
150 157.7 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





#76

1,2,3-Trichloropropane

Concen: 20.412 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034055.D

Acq: 29 Aug 2019 12:34

Instrument :

MSVOA_U

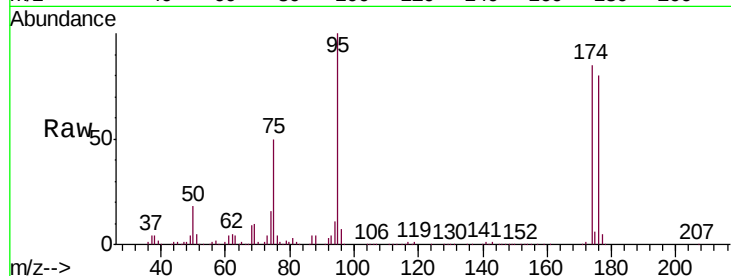
ClientSampled :

Tot Ion: 75 Resp: 152094

Ion Ratio Lower Upper

75 100

77 1.2 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

10.29

80000

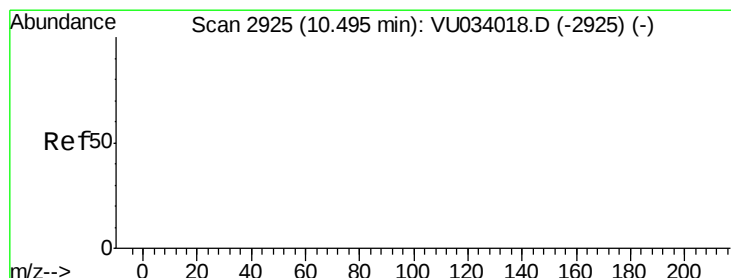
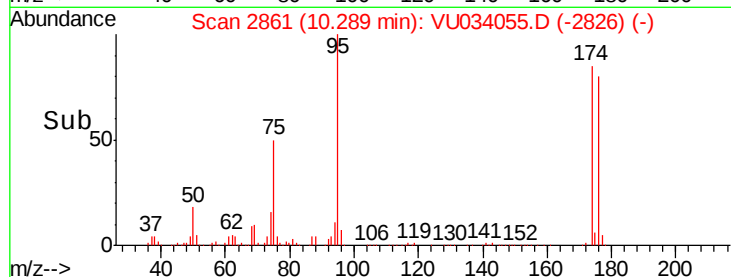
60000

40000

20000

0

Time--> 10.20 10.30 10.40



#81

trans-1,4-Dichloro-2-butene

Concen: 68.731 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034055.D

Acq: 29 Aug 2019 12:34

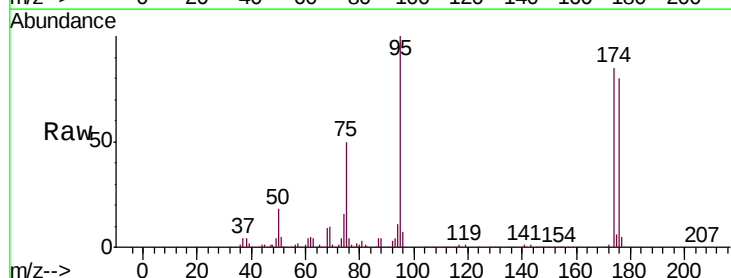
Tgt Ion: 75 Resp: 152094

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

10.29

120000

100000

80000

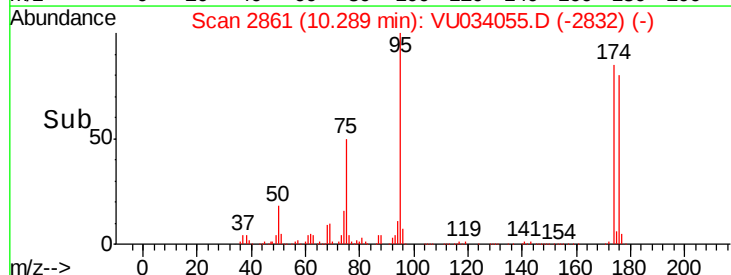
60000

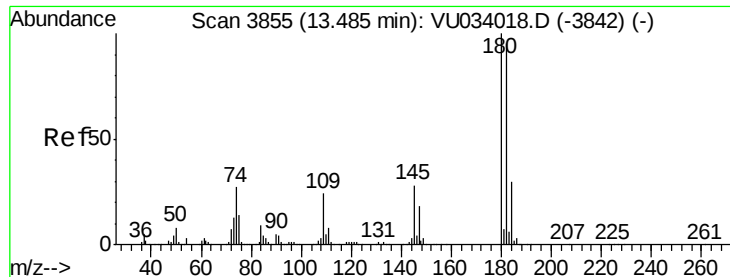
40000

20000

0

Time--> 10.20 10.30 10.40





#93

1,2,4-Trichlorobenzene

Concen: 1.126 ug/l

RT: 13.52 min Scan# 3866

Delta R.T. 0.04 min

Lab File: VU034055.D

Acq: 29 Aug 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

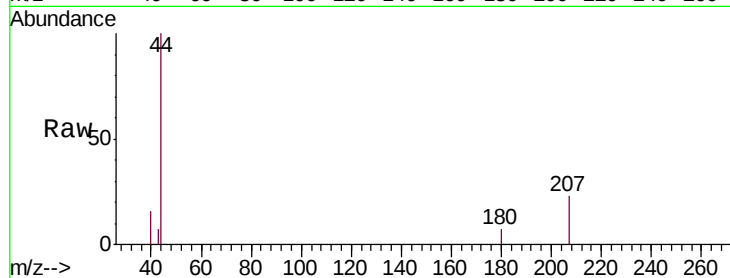
Tot Ion:180 Resp: 86

Ion Ratio Lower Upper

180 100

182 0.0 47.4 142.2#

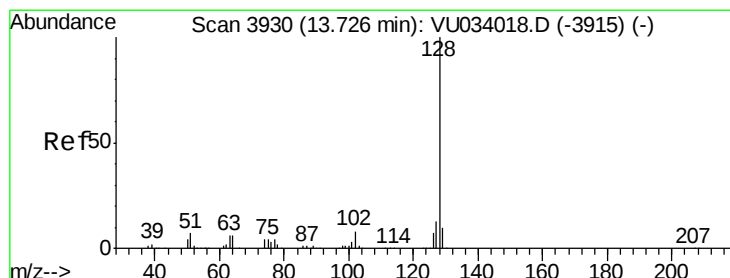
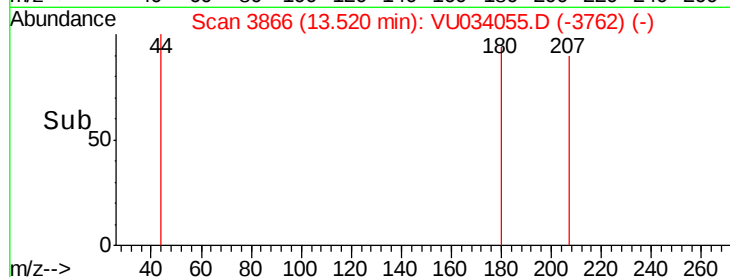
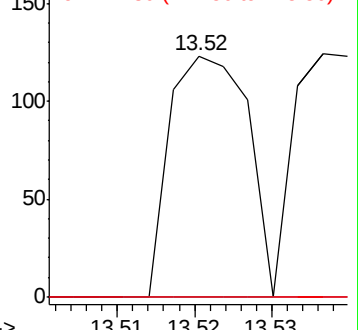
145 0.0 14.1 42.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 1.797 ug/l

RT: 13.76 min Scan# 3942

Delta R.T. 0.04 min

Lab File: VU034055.D

Acq: 29 Aug 2019 12:34

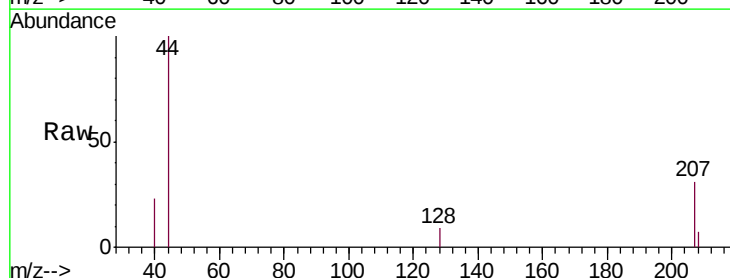
Tgt Ion:128 Resp: 155

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

