

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090719\
 Data File : VU034318.D
 Acq On : 06 Sep 2019 10:08
 Operator : JC/SP
 Sample : K4689-05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 06 12:23:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	289700	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	436954	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	433246	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	250547	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	236475	53.95	ug/l	0.00
Spiked Amount			Recovery	=	107.90%	
35) Dibromofluoromethane	4.86	113	205190	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	
50) Toluene-d8	7.55	98	755220	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
62) 4-Bromofluorobenzene	10.29	95	264032	44.77	ug/l	0.00
Spiked Amount			Recovery	=	89.54%	

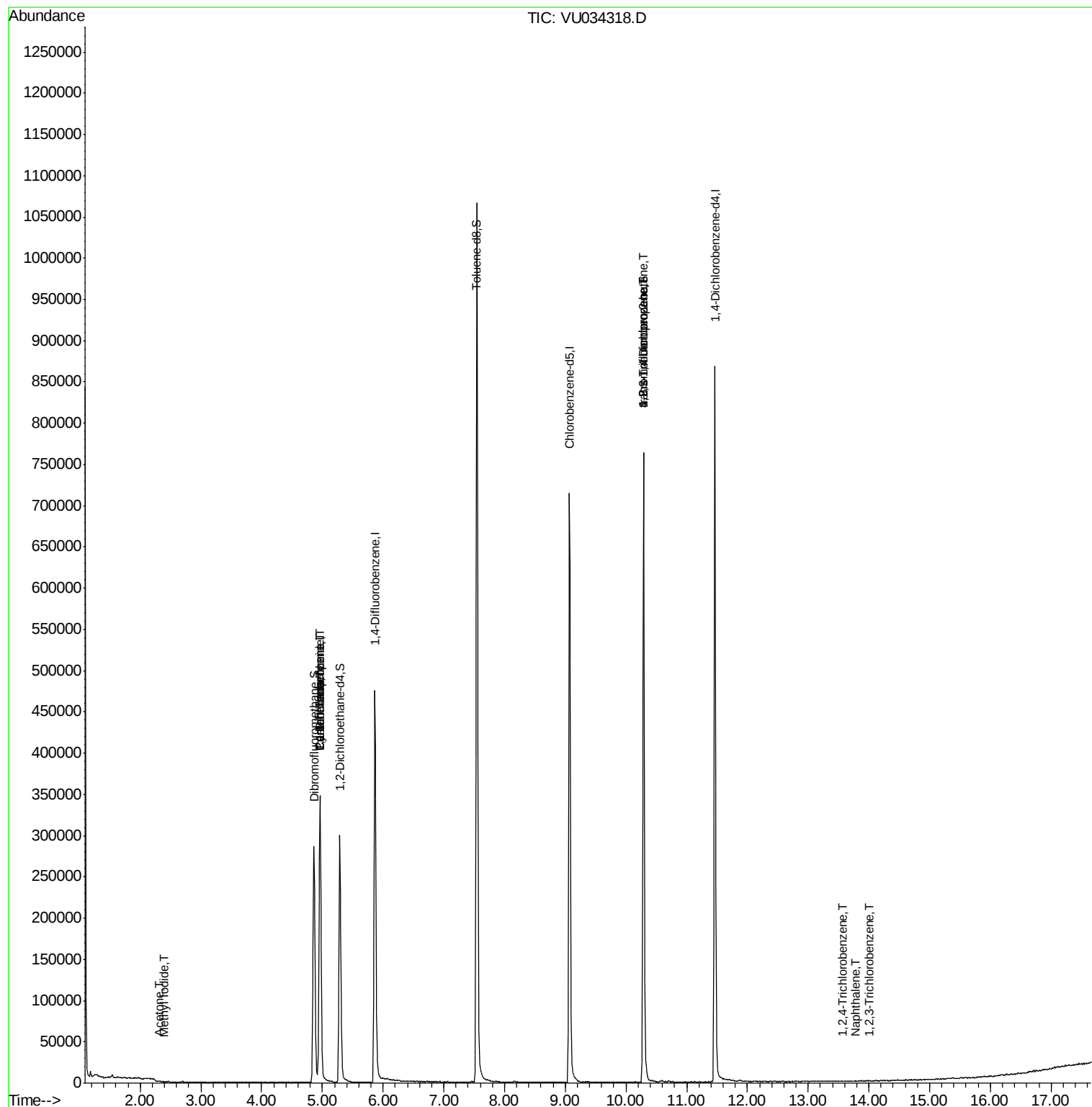
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	905	Below Cal		93
6) Chloroethane	1.69	64	139	Below Cal	#	43
10) Methyl Iodide	2.40	142	312	3.940	ug/l #	72
16) Acetone	2.31	43	801	0.353	ug/l	99
20) Methylene Chloride	2.69	84	479	Below Cal	#	89
31) Cyclohexane	4.96	56	4763	0.928	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	20116	4.245	ug/l #	48
38) Carbon Tetrachloride	4.96	117	26185	5.175	ug/l #	16
76) 1,2,3-Trichloropropane	10.29	75	125005	22.857	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	125005	76.867	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.55	180	63	3.462	ug/l #	12
95) Naphthalene	13.79	128	320	3.984	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.02	180	173	2.667	ug/l #	43

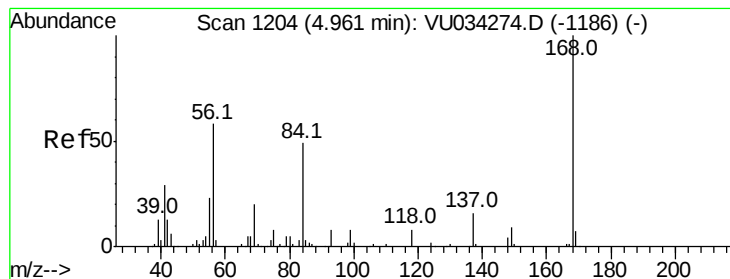
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034318.D

Acq: 06 Sep 2019 10:08

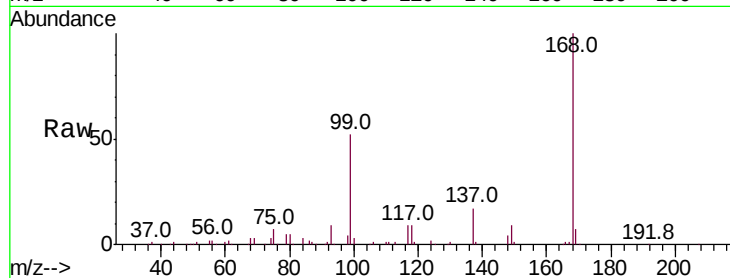
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:168 Resp: 289700

Ion Ratio Lower Upper

168 100

99 52.5 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034274.D (-1186) (-)

4.96

150000

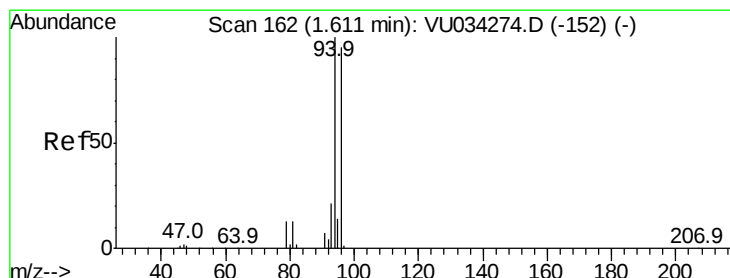
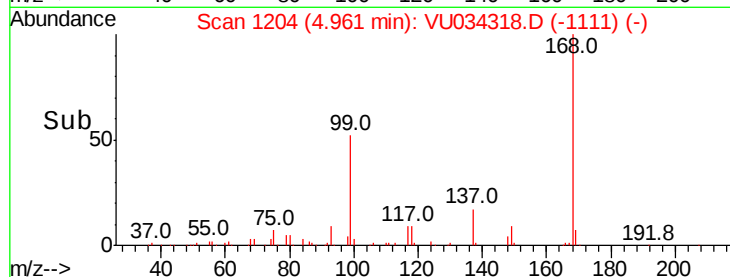
100000

50000

0

4.90 5.00 5.10

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034318.D

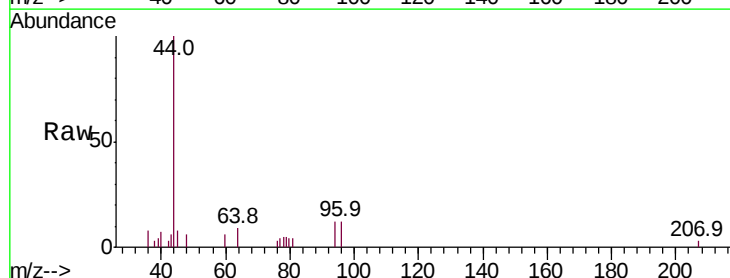
Acq: 06 Sep 2019 10:08

Tgt Ion: 94 Resp: 905

Ion Ratio Lower Upper

94 100

96 101.1 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VU034274.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034274.D (-152) (-)

1.63

500

400

300

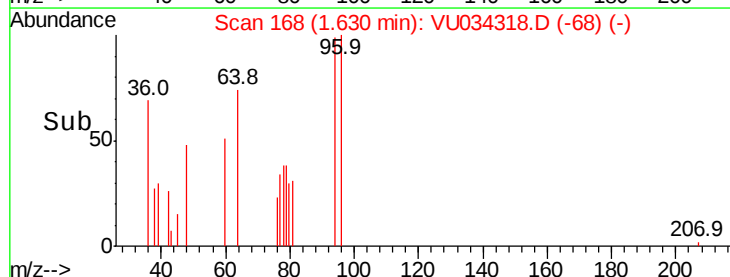
200

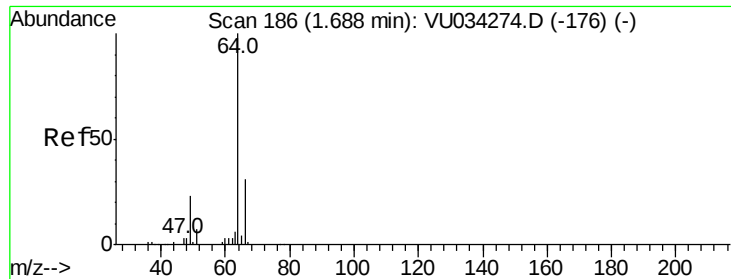
100

0

1.60 1.65

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034318.D

Acq: 06 Sep 2019 10:08

Instrument :

MSVOA_U

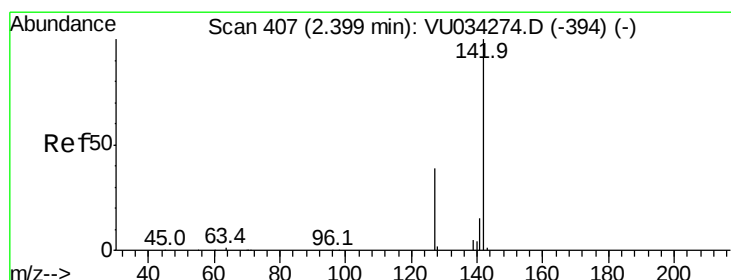
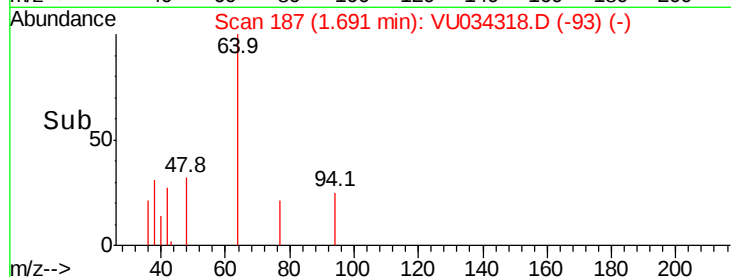
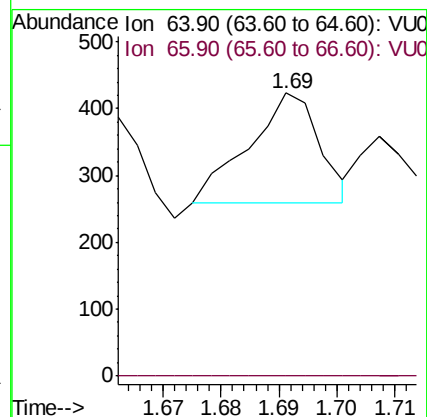
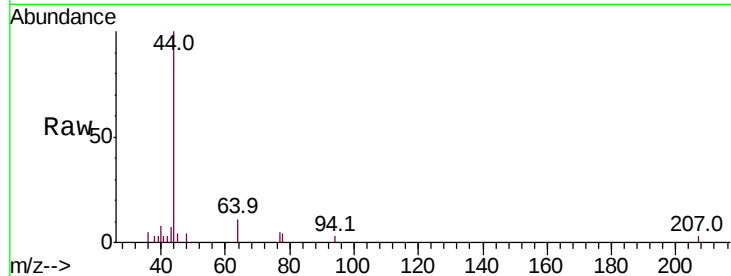
ClientSampleId :

Tot Ion: 64 Resp: 139

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



#10

Methyl Iodide

Concen: 3.940 ug/l

RT: 2.40 min Scan# 408

Delta R.T. 0.00 min

Lab File: VU034318.D

Acq: 06 Sep 2019 10:08

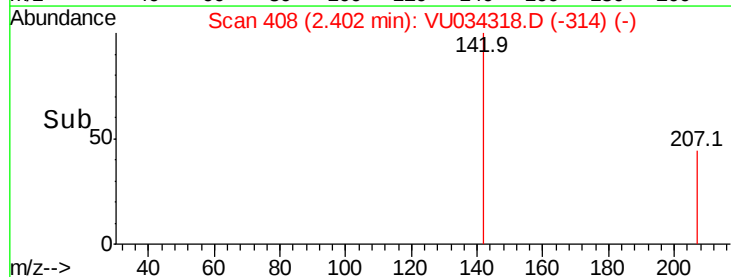
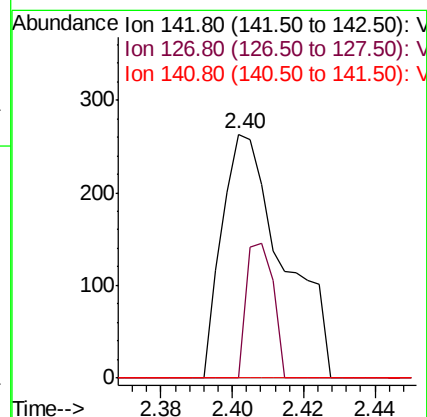
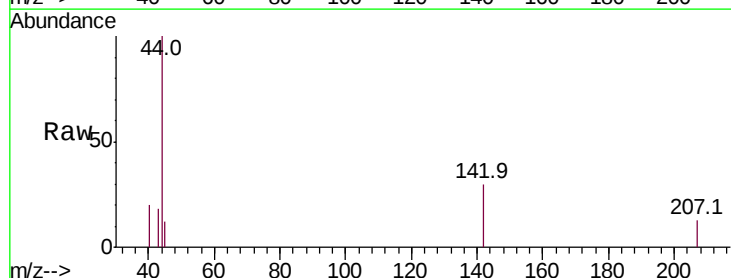
Tgt Ion: 142 Resp: 312

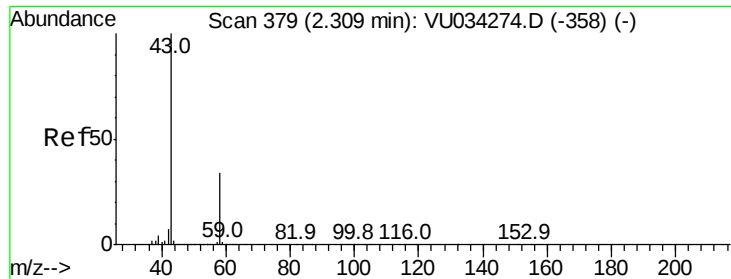
Ion Ratio Lower Upper

142 100

127 24.0 32.1 48.1#

141 0.0 11.5 17.3#





#16

Acetone

Concen: 0.353 ug/l

RT: 2.31 min Scan# 381

Delta R.T. 0.01 min

Lab File: VU034318.D

Acq: 06 Sep 2019 10:08

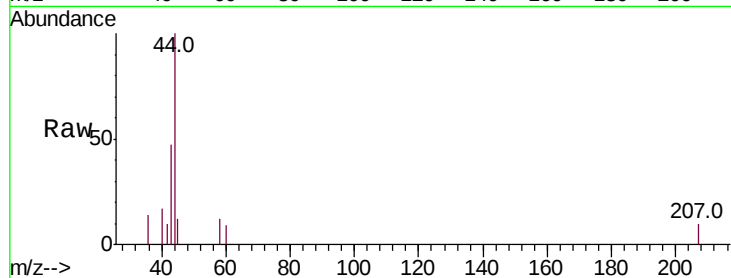
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 801

Ion Ratio Lower Upper

43 100

58 33.8 27.6 41.4

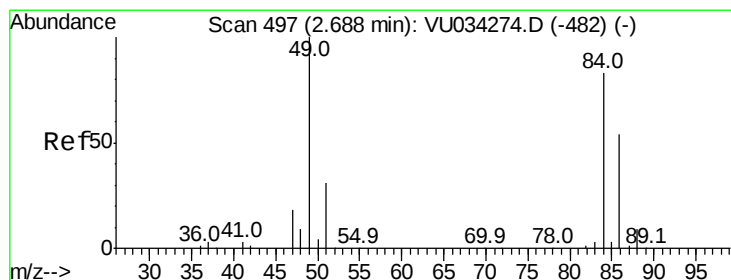
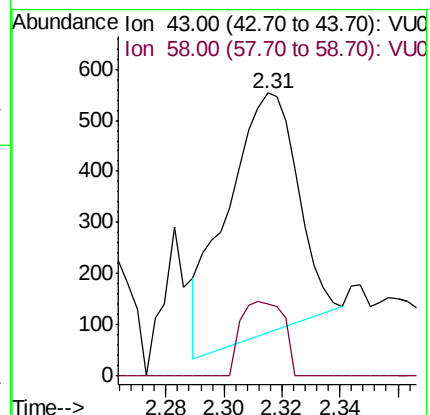
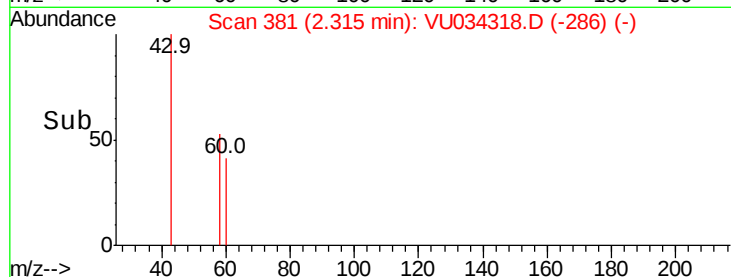


Abundance Ion 43.00 (42.70 to 43.70): VU034274.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034274.D (-358) (-)

2.31

2.34



#20

Methylene Chloride

Concen: Below Cal

RT: 2.69 min Scan# 499

Delta R.T. 0.01 min

Lab File: VU034318.D

Acq: 06 Sep 2019 10:08

Tgt Ion: 84 Resp: 479

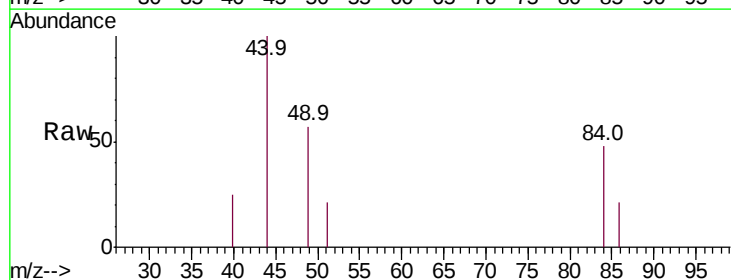
Ion Ratio Lower Upper

84 100

49 117.7 96.0 144.0

51 44.0 30.0 45.0

86 43.7 51.4 77.0#



Abundance Ion 83.90 (83.60 to 84.60): VU034274.D (-482) (-)

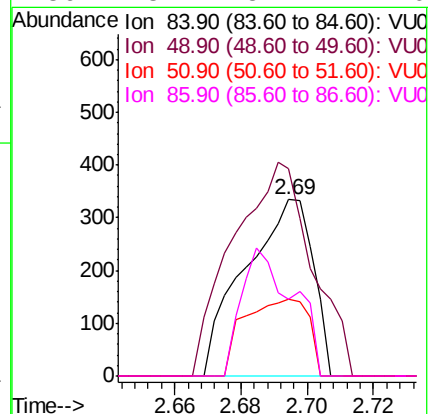
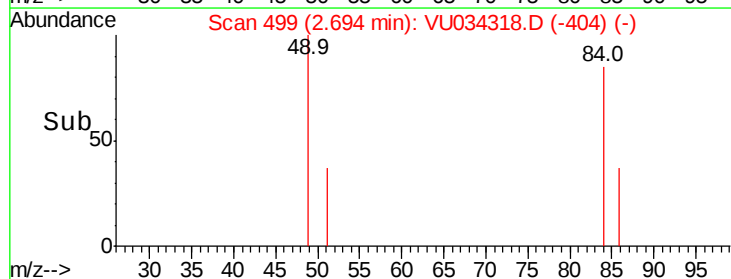
Ion 48.90 (48.60 to 49.60): VU034274.D (-482) (-)

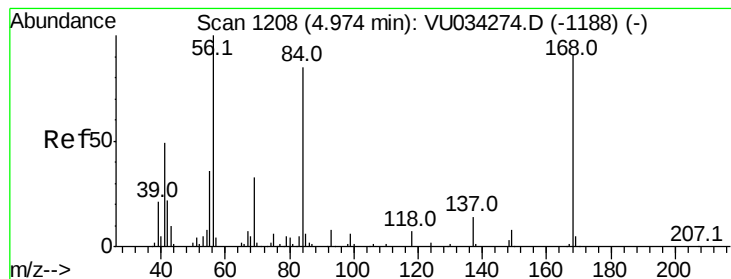
Ion 50.90 (50.60 to 51.60): VU034274.D (-482) (-)

Ion 85.90 (85.60 to 86.60): VU034274.D (-482) (-)

2.69

2.72





#31

Cyclohexane

Concen: 0.928 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034318.D

Acq: 06 Sep 2019 10:08

Instrument :
MSVOA_U
ClientSampled :

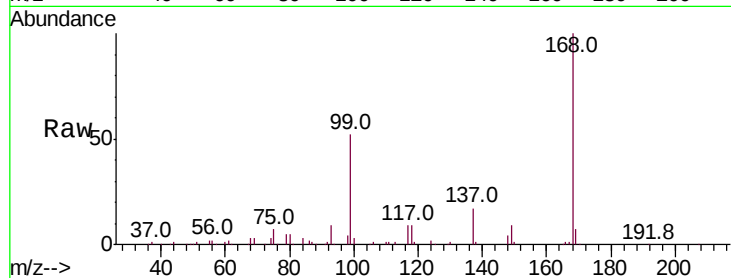
Tot Ion: 56 Resp: 4763

Ion Ratio Lower Upper

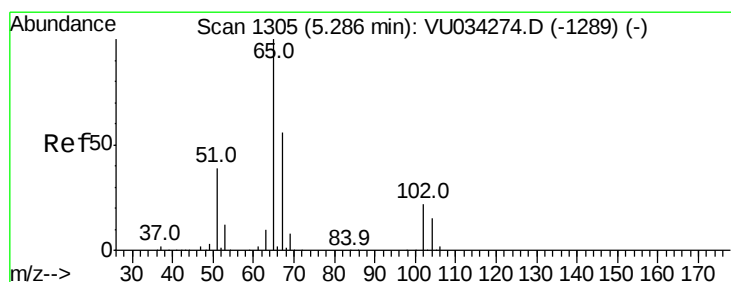
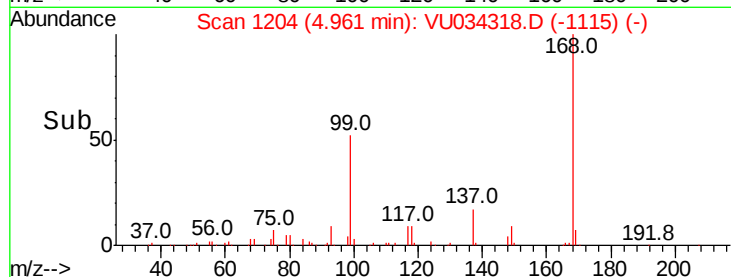
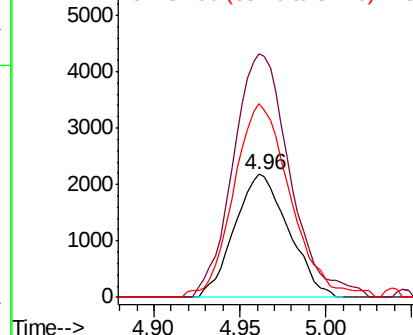
56 100

69 198.2 26.7 40.1#

84 152.7 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



#33

1,2-Dichloroethane-d4

Concen: 53.950 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034318.D

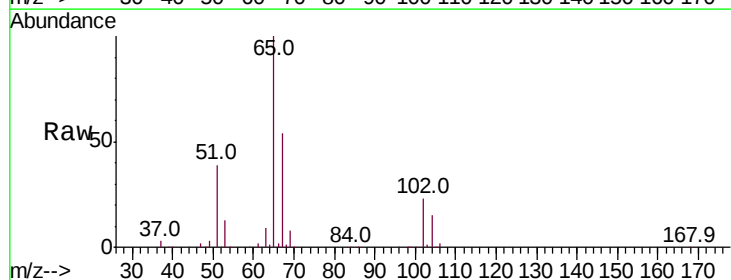
Acq: 06 Sep 2019 10:08

Tgt Ion: 65 Resp: 236475

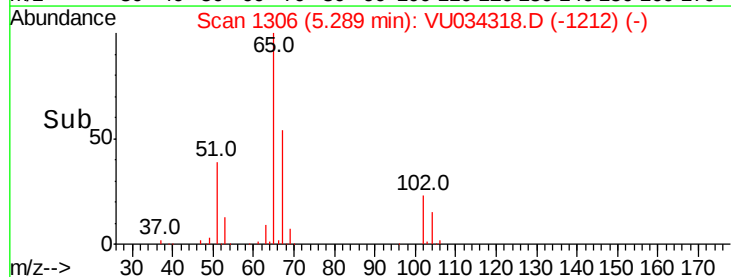
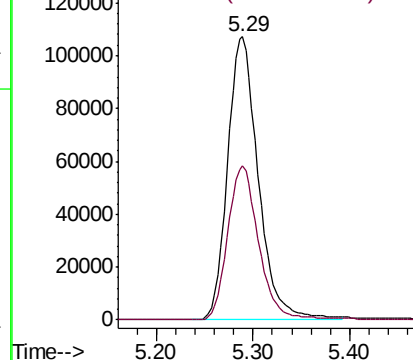
Ion Ratio Lower Upper

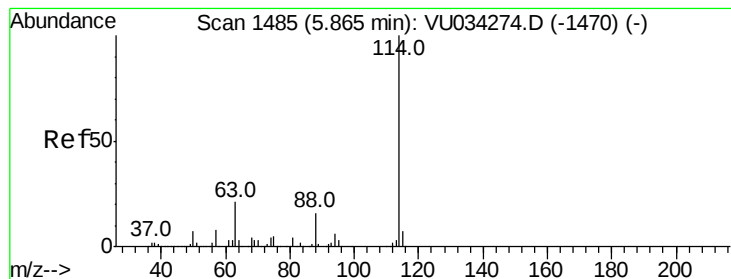
65 100

67 55.3 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034318.D

Acq: 06 Sep 2019 10:08

Instrument :

MSVOA_U

ClientSampled :

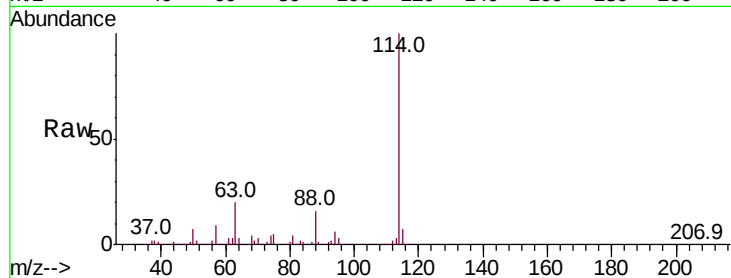
Tot Ion:114 Resp: 436954

Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.4

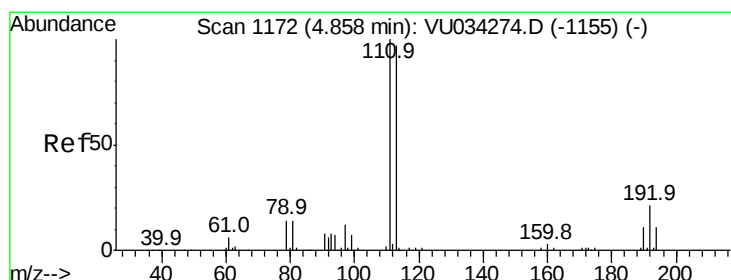
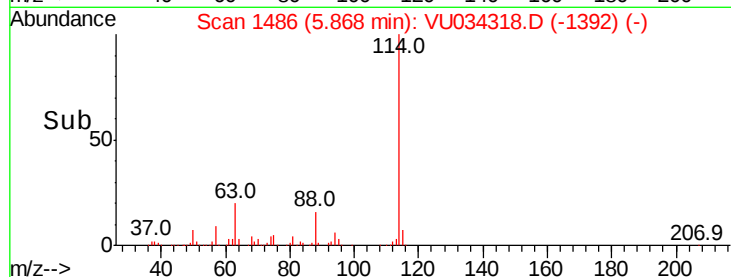
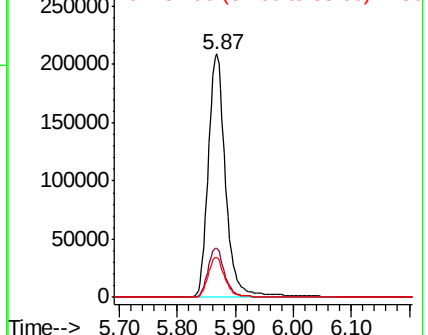
88 16.3 0.0 32.4



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: 50.466 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034318.D

Acq: 06 Sep 2019 10:08

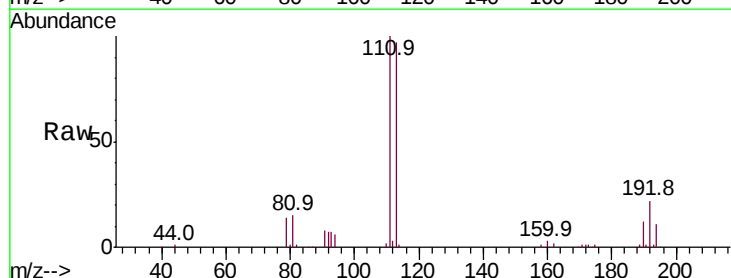
Tgt Ion:113 Resp: 205190

Ion Ratio Lower Upper

113 100

111 102.6 81.5 122.3

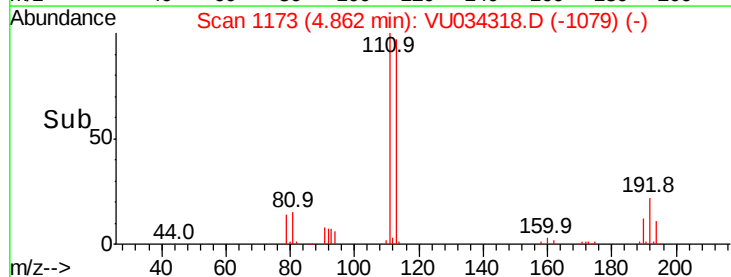
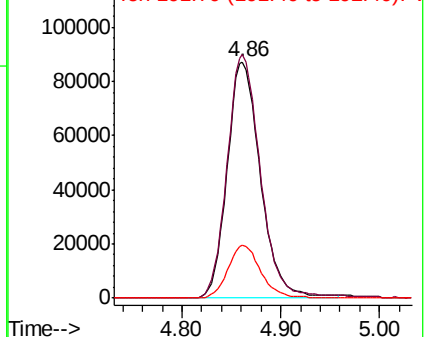
192 21.9 17.8 26.8

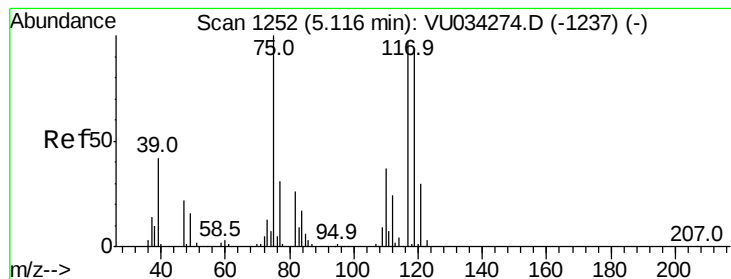


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.245 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034318.D

Acq: 06 Sep 2019 10:08

Instrument :
MSVOA_U
ClientSampled :

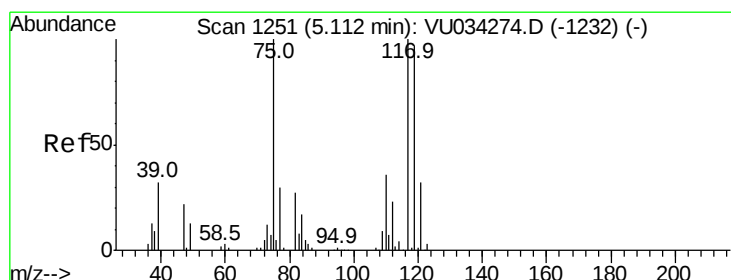
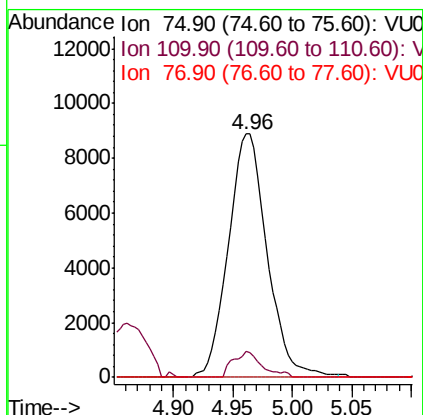
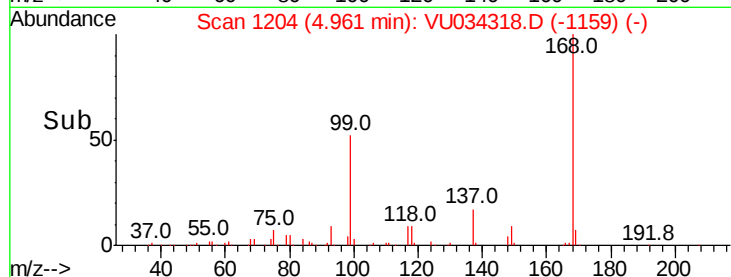
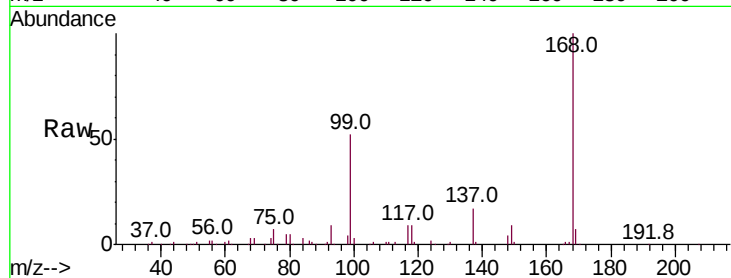
Tot Ion: 75 Resp: 20116

Ion Ratio Lower Upper

75 100

110 7.9 18.3 54.9#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.175 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034318.D

Acq: 06 Sep 2019 10:08

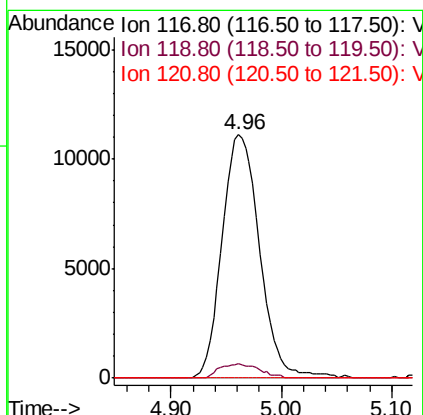
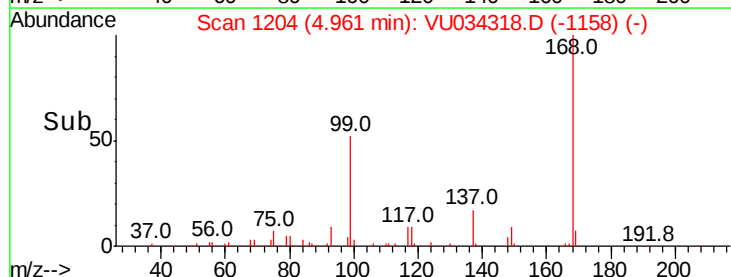
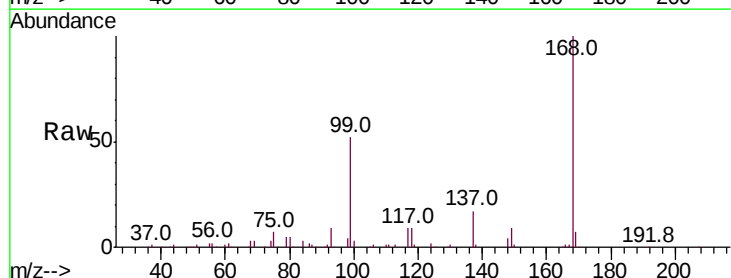
Tgt Ion: 117 Resp: 26185

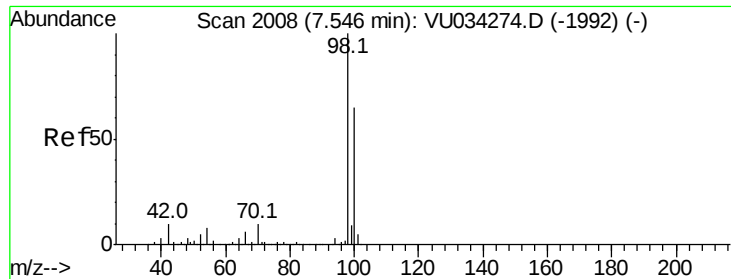
Ion Ratio Lower Upper

117 100

119 5.7 77.8 116.6#

121 0.0 25.2 37.8#

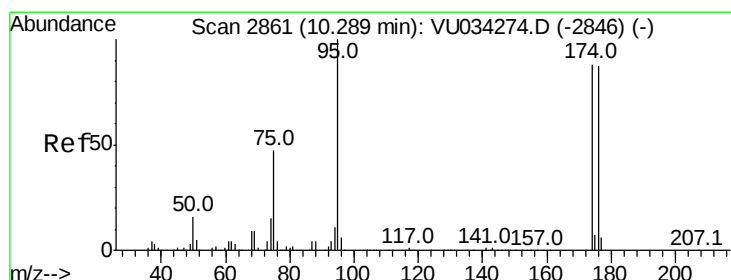
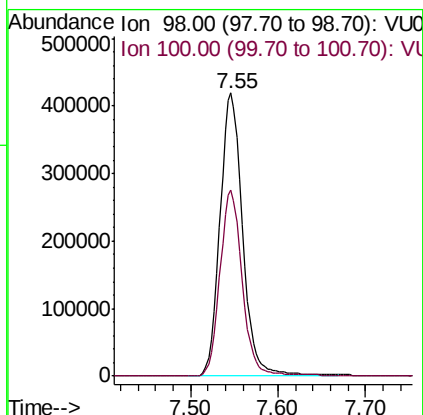
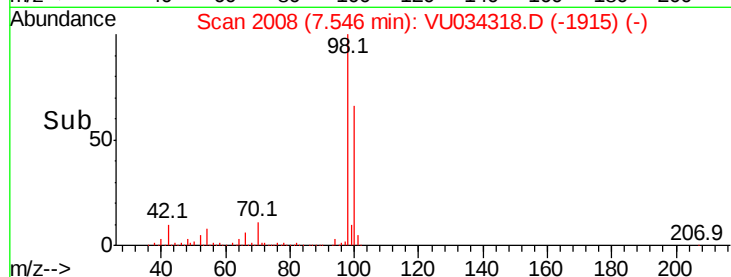
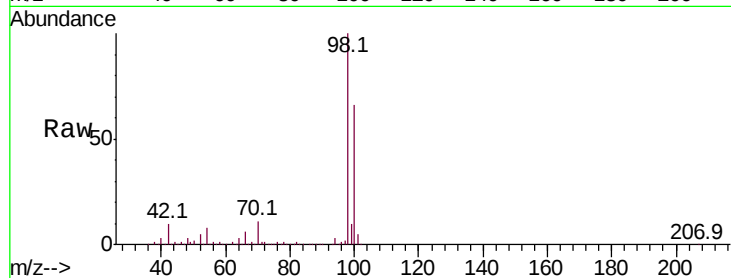




#50
Toluene-d8
Concen: 49.440 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034318.D
Acq: 06 Sep 2019 10:08

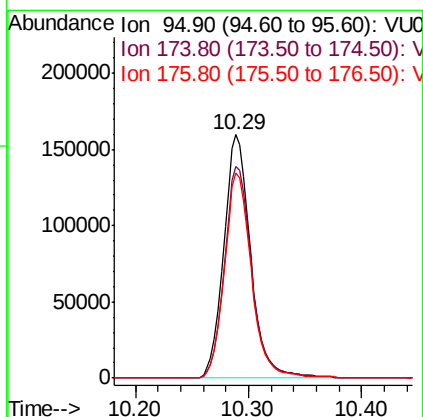
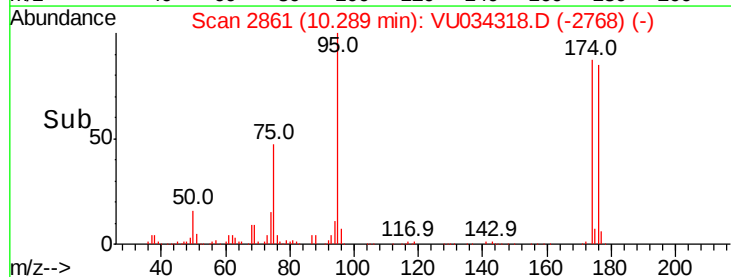
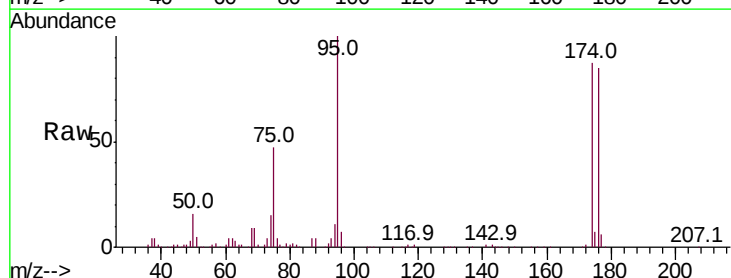
Instrument :
MSVOA_U
ClientSampleId :

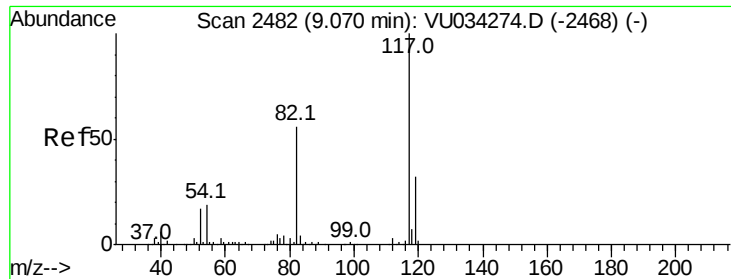
Tot Ion: 98 Resp: 755220
Ion Ratio Lower Upper
98 100
100 64.8 51.7 77.5



#62
4-Bromofluorobenzene
Concen: 44.768 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.00 min
Lab File: VU034318.D
Acq: 06 Sep 2019 10:08

Tgt Ion: 95 Resp: 264032
Ion Ratio Lower Upper
95 100
174 88.7 0.0 175.2
176 84.7 0.0 168.0

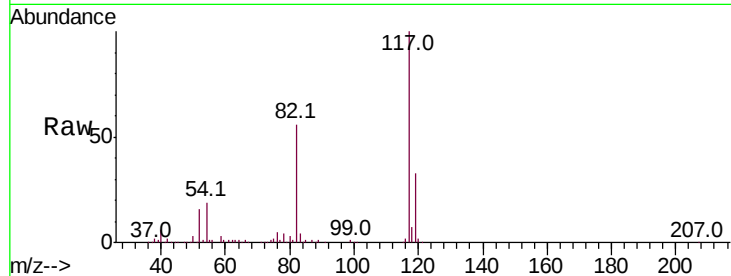




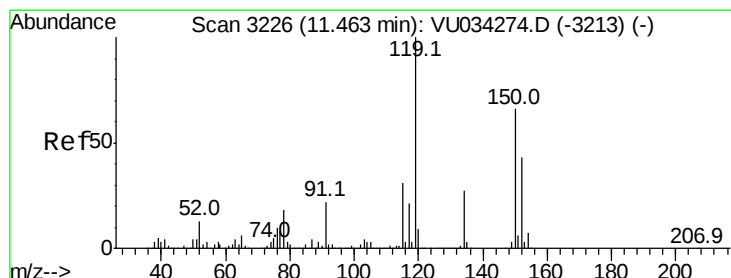
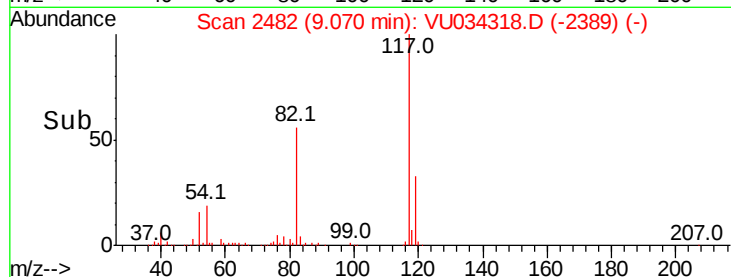
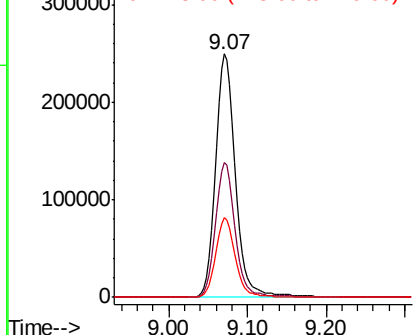
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034318.D
Acq: 06 Sep 2019 10:08

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.5	44.6	67.0
119	32.5	25.9	38.9

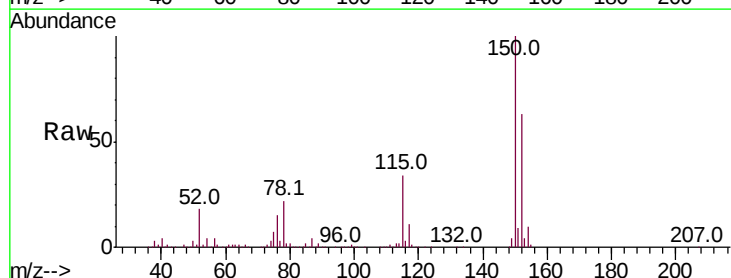


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

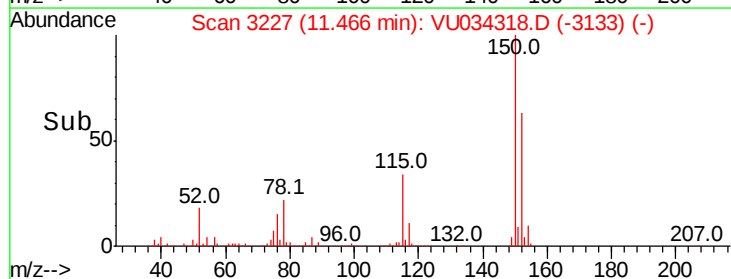
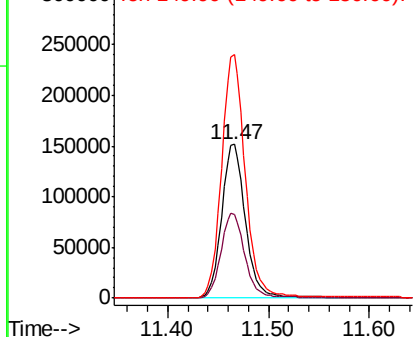


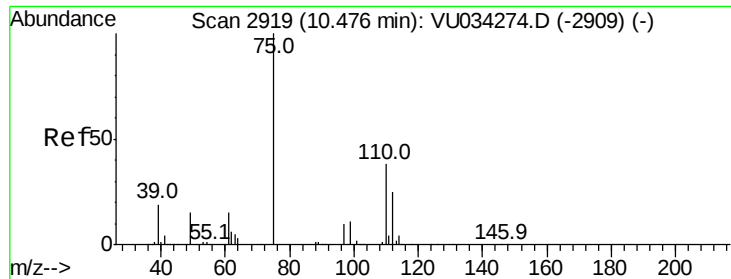
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.47 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VU034318.D
Acq: 06 Sep 2019 10:08

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.3	39.1	117.3
150	157.5	0.0	345.4



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: 22.857 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034318.D

Acq: 06 Sep 2019 10:08

Instrument :

MSVOA_U

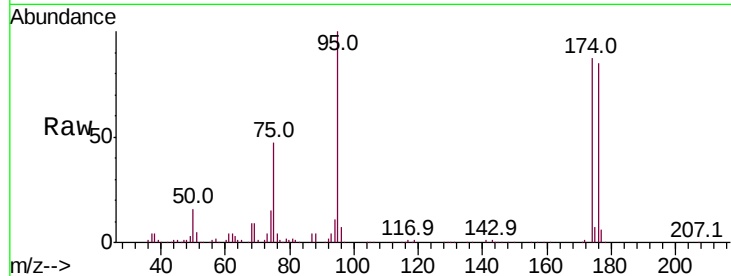
ClientSampleId :

Tot Ion: 75 Resp: 125005

Ion Ratio Lower Upper

75 100

77 1.3 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

80000

60000

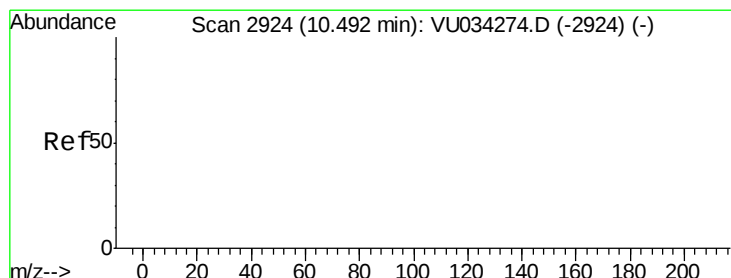
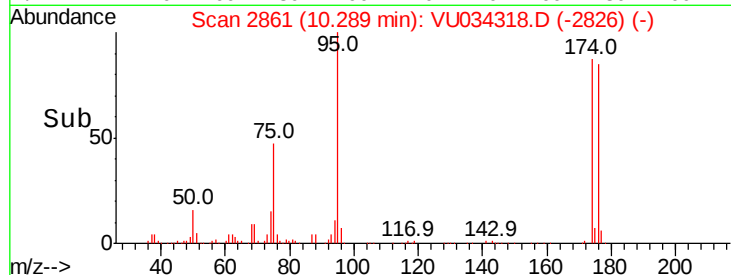
40000

20000

0

10.20 10.30 10.40

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 76.867 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034318.D

Acq: 06 Sep 2019 10:08

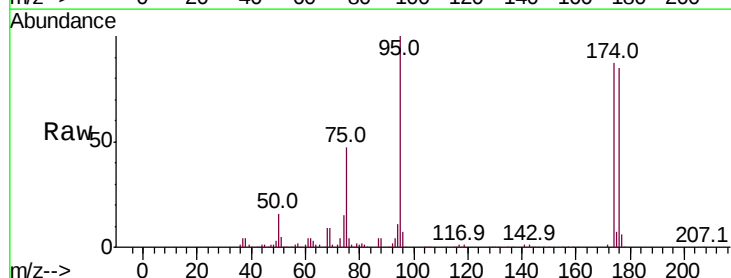
Tgt Ion: 75 Resp: 125005

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

100000

80000

60000

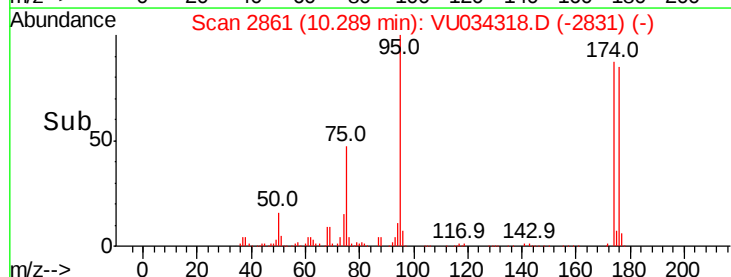
40000

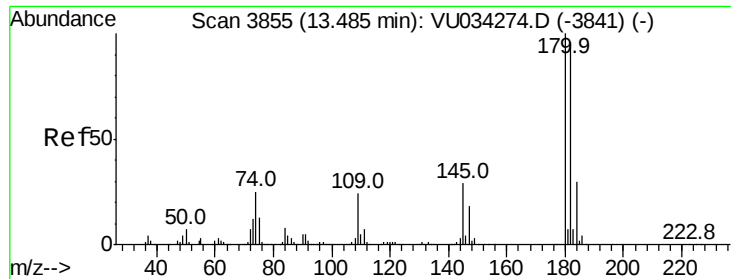
20000

0

10.20 10.30 10.40

Time-->

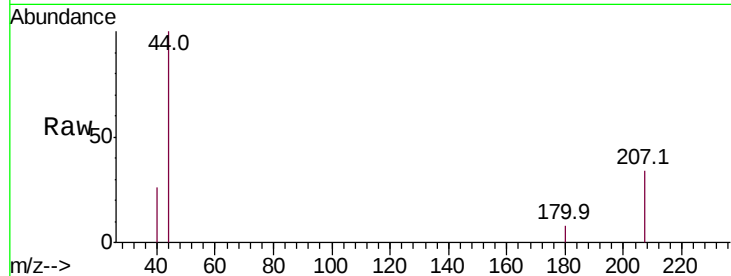




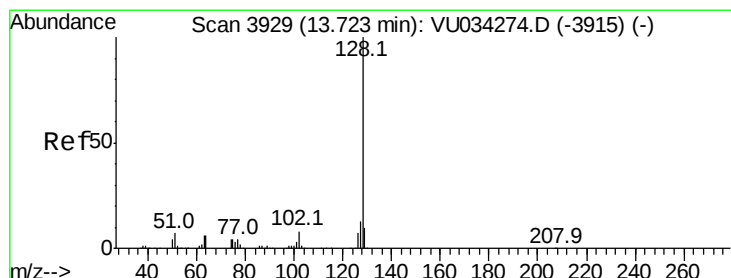
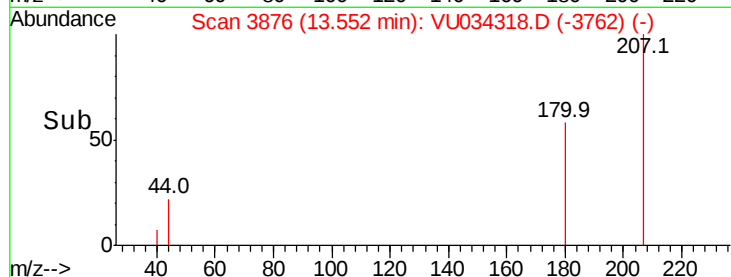
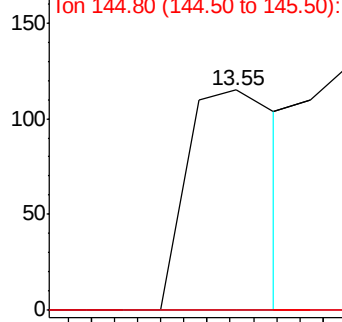
#93
 1,2,4-Trichlorobenzene
 Concen: 3.462 ug/l
 RT: 13.55 min Scan# 3876
 Delta R.T. 0.07 min
 Lab File: VU034318.D
 Acq: 06 Sep 2019 10:08

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 63
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.9 143.8#
 145 0.0 14.4 43.0#

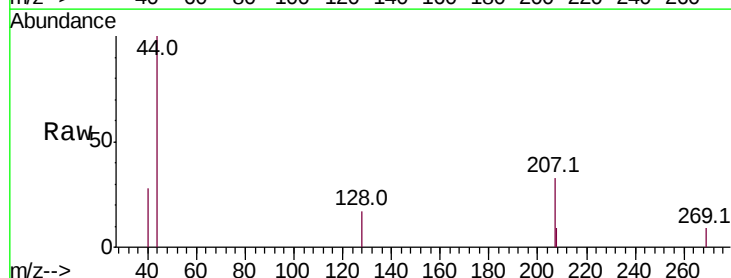


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

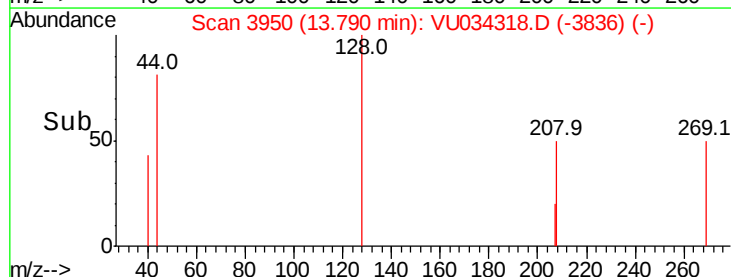
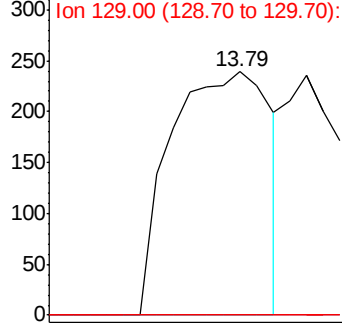


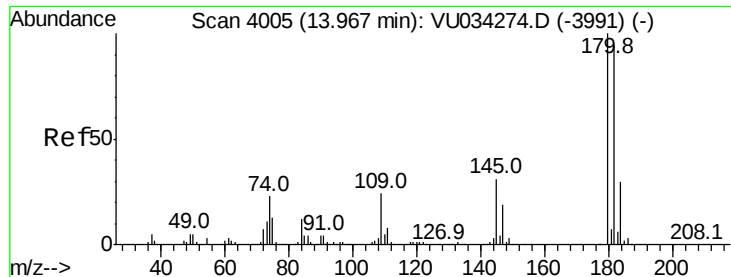
#95
 Naphthalene
 Concen: 3.984 ug/l
 RT: 13.79 min Scan# 3950
 Delta R.T. 0.07 min
 Lab File: VU034318.D
 Acq: 06 Sep 2019 10:08

Tgt Ion:128 Resp: 320
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 15.8#
 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

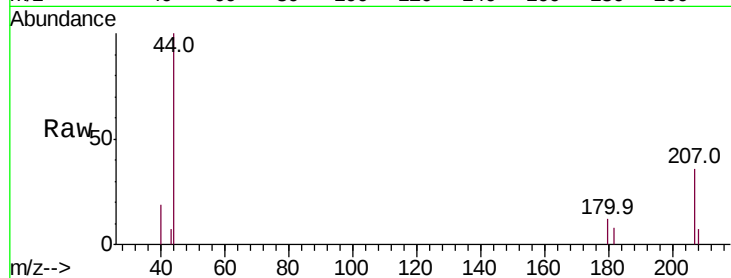




#96
 1,2,3-Trichlorobenzene
 Concen: 2.667 ug/l
 RT: 14.02 min Scan# 4021
 Delta R.T. 0.05 min
 Lab File: VU034318.D
 Acq: 06 Sep 2019 10:08

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	41.0	48.4	145.0#
145	0.0	15.4	46.4#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

