

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU082919\
 Data File : VU034034.D
 Acq On : 28 Aug 2019 19:38
 Operator : JC/SP
 Sample : K4577-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-2

Quant Time: Aug 29 04:19:12 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	480097	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	747638	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	714993	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	356782	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	297696	48.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.78%	
35) Dibromofluoromethane	4.86	113	241883	46.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.30%	
50) Toluene-d8	7.55	98	955103	49.19	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.38%	
62) 4-Bromofluorobenzene	10.29	95	333657	44.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.36%	

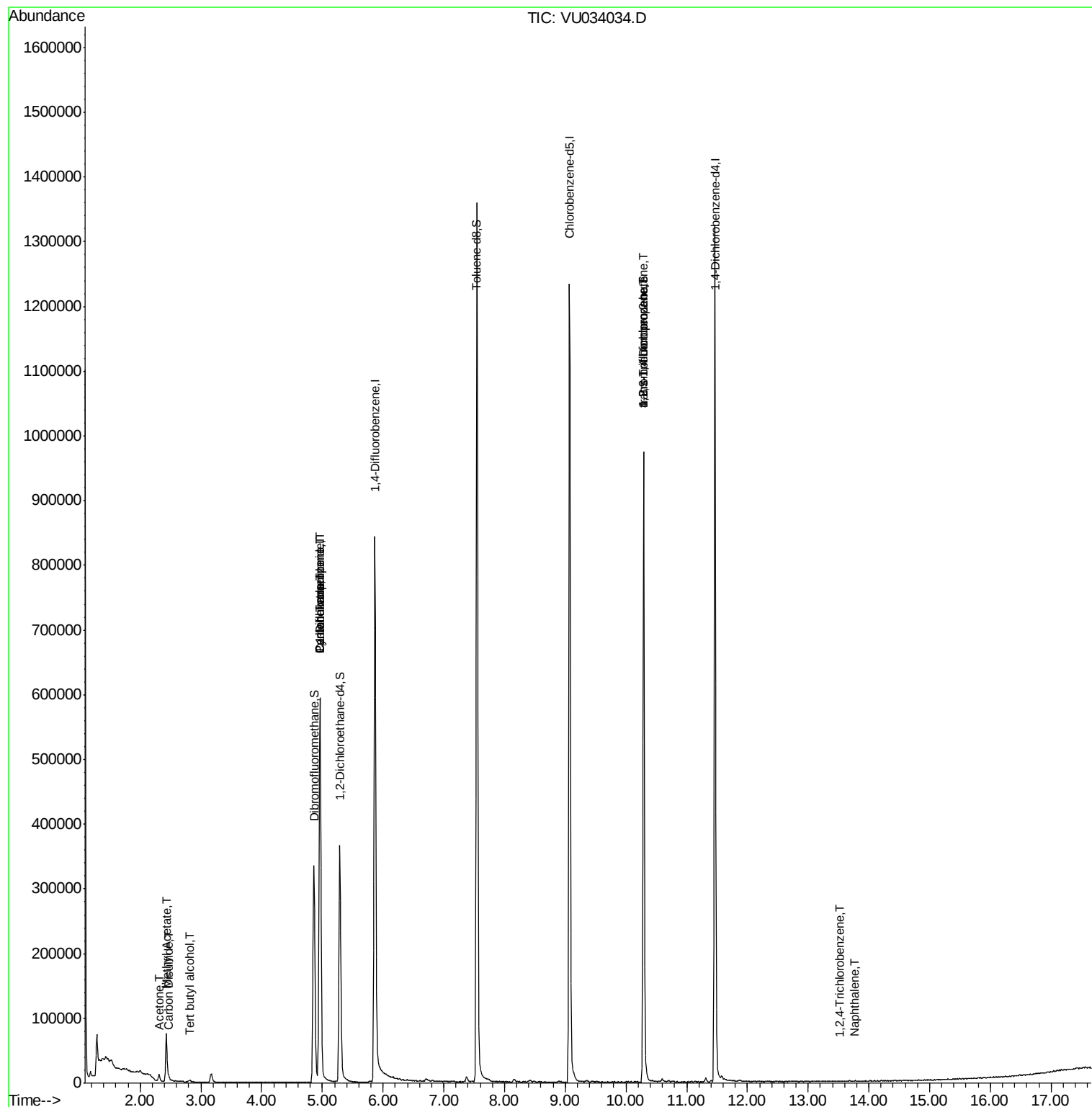
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2915	Below Cal		99
5) Bromomethane	1.63	94	447	Below Cal	#	62
11) Tert butyl alcohol	2.81	59	3808	2.684	ug/l #	92
16) Acetone	2.31	43	10559	3.364	ug/l	98
17) Carbon Disulfide	2.47	76	3412	0.224	ug/l	99
18) Methyl Acetate	2.43	43	18705	2.306	ug/l #	51
31) Cyclohexane	4.96	56	8825	0.961	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	35541	5.026	ug/l #	48
38) Carbon Tetrachloride	4.96	117	43993	6.445	ug/l #	17
76) 1,2,3-Trichloropropane	10.29	75	162891	20.257	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	162891	68.210	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.52	180	44	1.119	ug/l #	12
95) Naphthalene	13.78	128	406	1.807	ug/l #	70

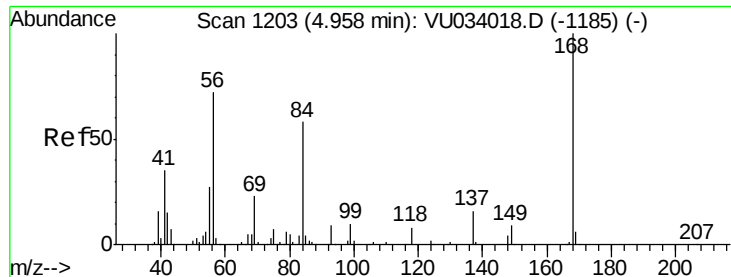
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034034.D

Acq: 28 Aug 2019 19:38

Instrument :

MSVOA_U

ClientSampled :

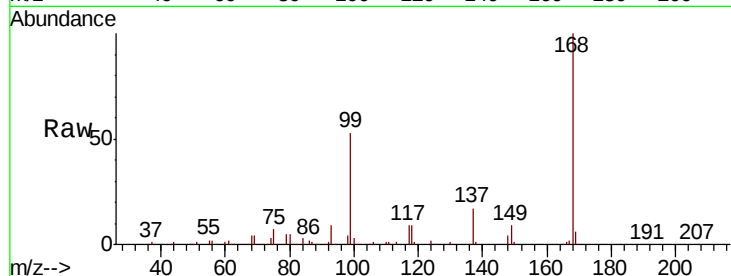
GW-2

Tgt Ion: 168 Resp: 480097

Ion Ratio Lower Upper

168 100

99 53.2 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

250000

200000

150000

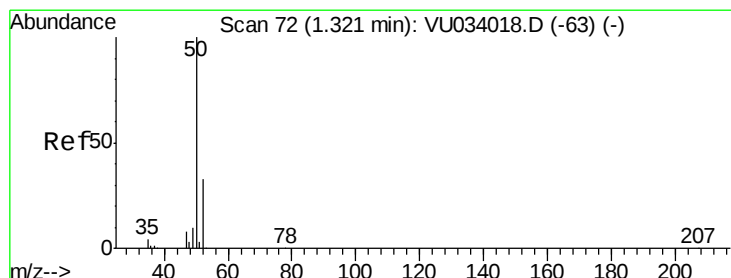
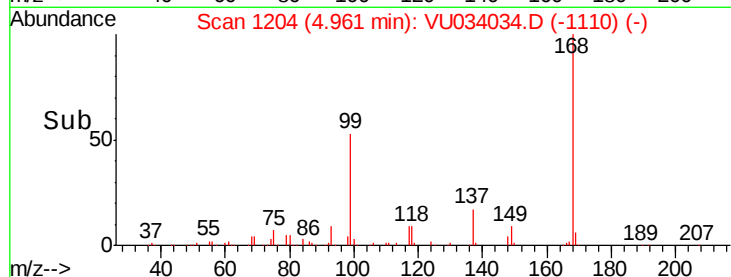
100000

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: VU034034.D

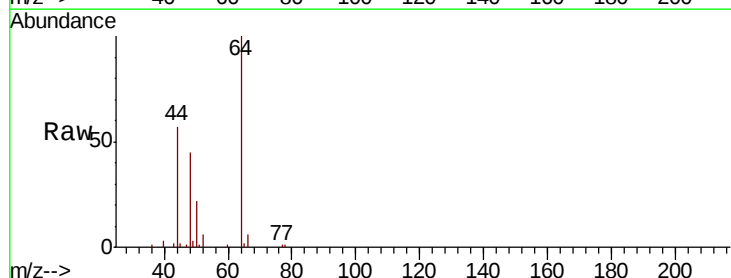
Acq: 28 Aug 2019 19:38

Tgt Ion: 50 Resp: 2915

Ion Ratio Lower Upper

50 100

52 33.2 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

3000

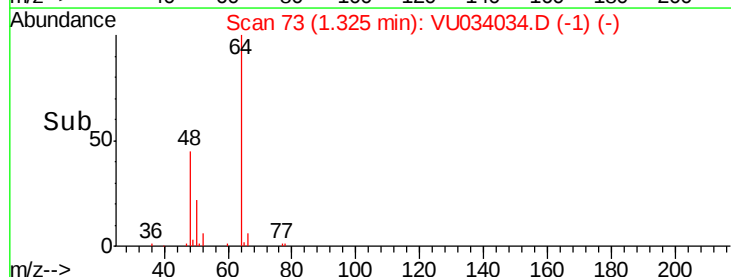
2000

1000

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 167

Delta R.T. 0.03 min

Lab File: VU034034.D

Acq: 28 Aug 2019 19:38

Instrument :

MSVOA_U

ClientSampleId :

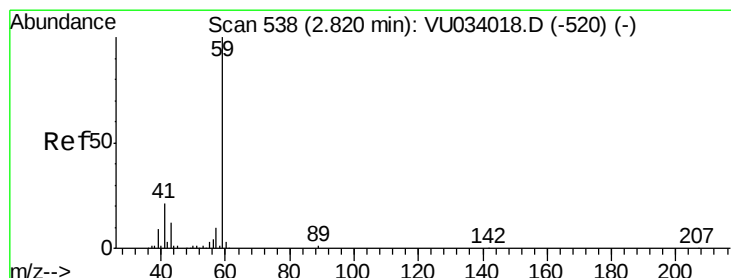
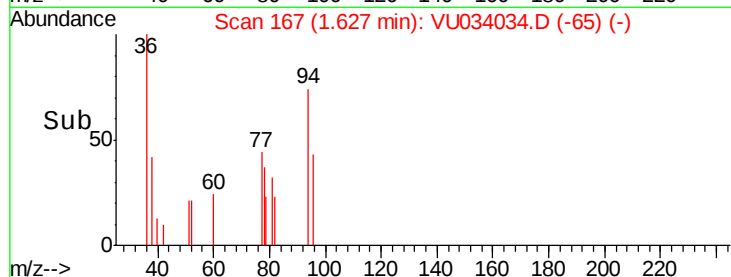
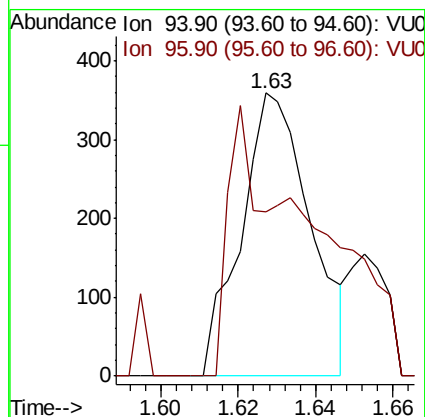
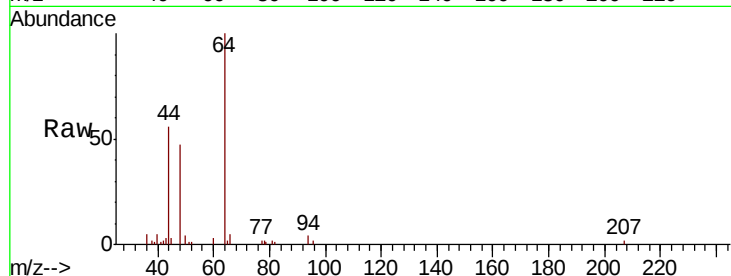
GW-2

Tgt Ion: 94 Resp: 447

Ion Ratio Lower Upper

94 100

96 57.9 76.3 114.5#



#11

Tert butyl alcohol

Concen: 2.684 ug/l

RT: 2.81 min Scan# 535

Delta R.T. -0.01 min

Lab File: VU034034.D

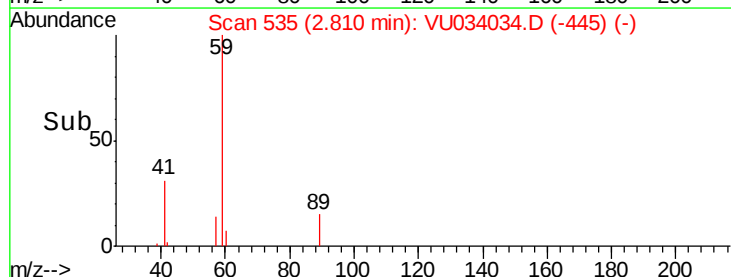
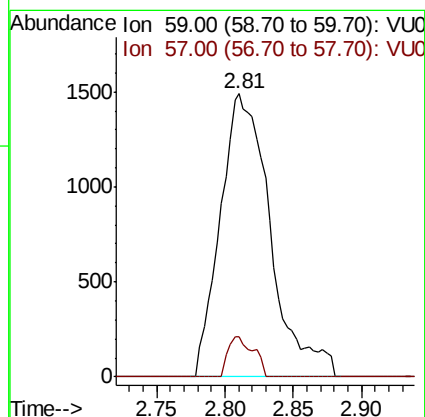
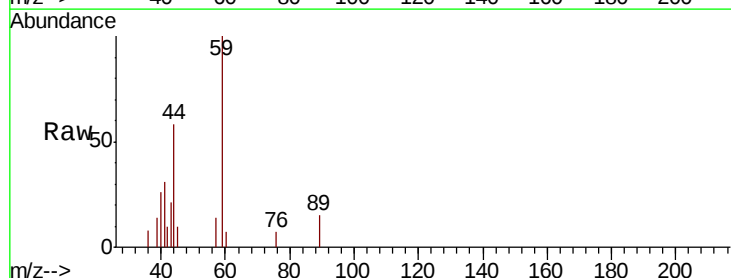
Acq: 28 Aug 2019 19:38

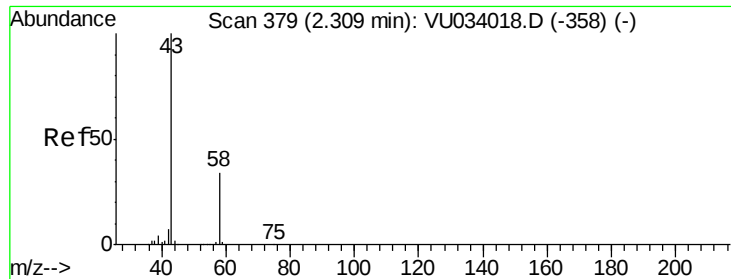
Tgt Ion: 59 Resp: 3808

Ion Ratio Lower Upper

59 100

57 7.1 8.0 12.0#





#16

Acetone

Concen: 3.364 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034034.D

Acq: 28 Aug 2019 19:38

Instrument :

MSVOA_U

ClientSampleId :

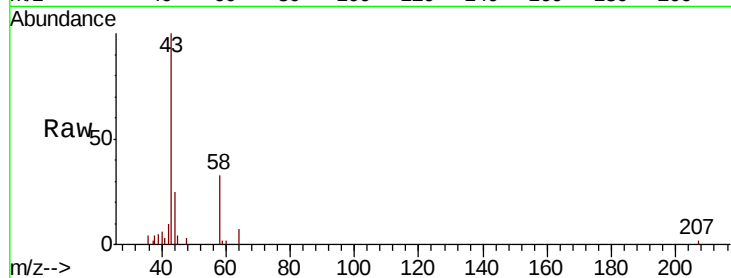
GW-2

Tgt Ion: 43 Resp: 10559

Ion Ratio Lower Upper

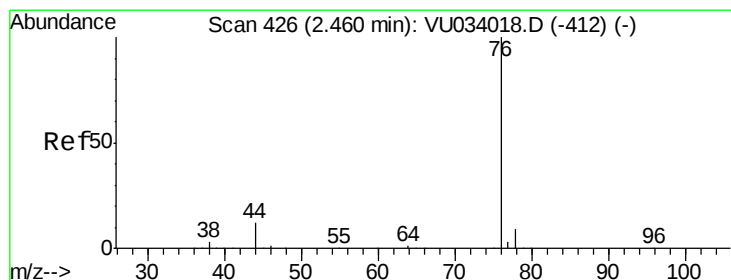
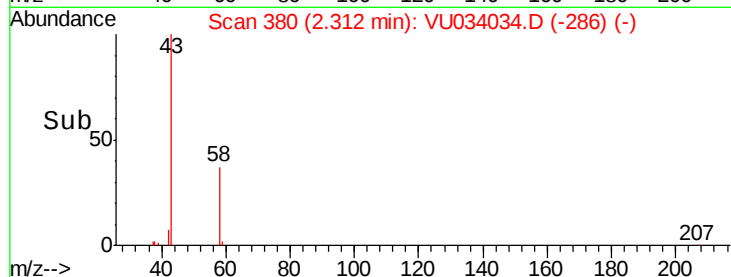
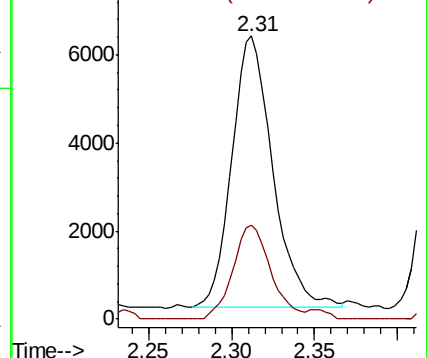
43 100

58 34.9 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) (-)



#17

Carbon Disulfide

Concen: 0.224 ug/l

RT: 2.47 min Scan# 430

Delta R.T. 0.01 min

Lab File: VU034034.D

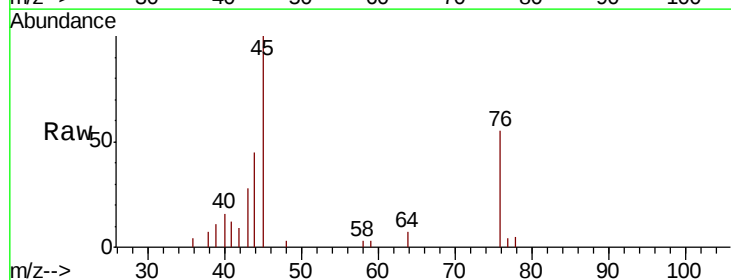
Acq: 28 Aug 2019 19:38

Tgt Ion: 76 Resp: 3412

Ion Ratio Lower Upper

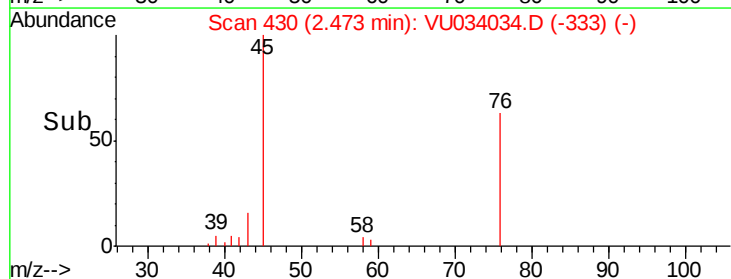
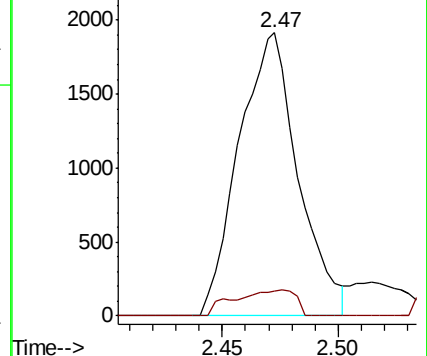
76 100

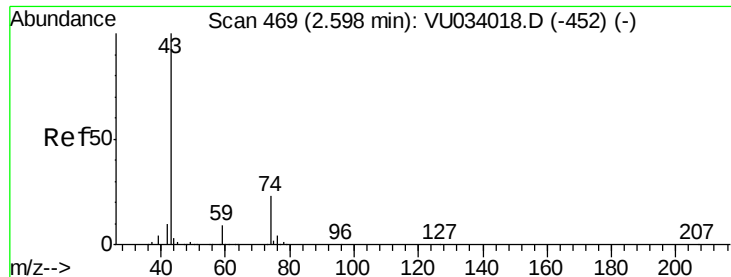
78 8.6 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VU034018.D (-412) (-)

Ion 77.90 (77.60 to 78.60): VU034018.D (-412) (-)

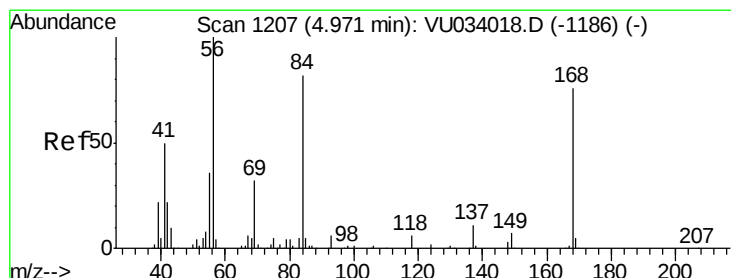
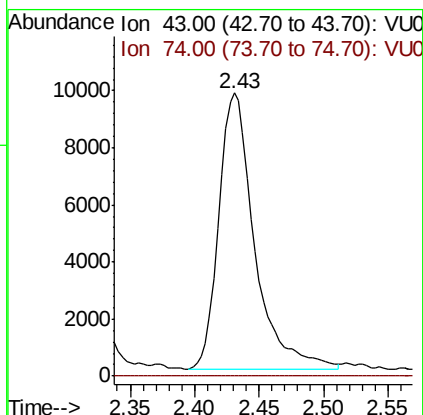
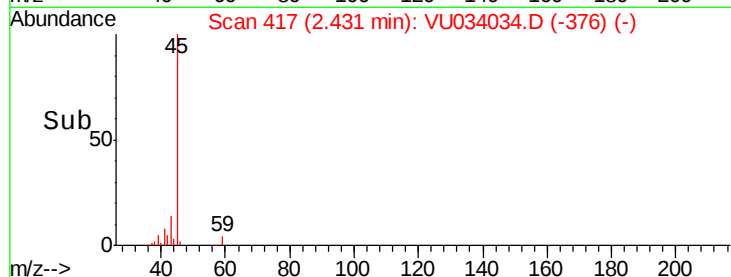
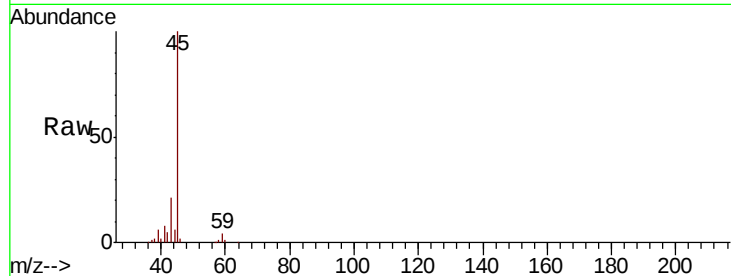




#18
Methyl Acetate
Concen: 2.306 ug/l
RT: 2.43 min Scan# 417
Delta R.T. -0.17 min
Lab File: VU034034.D
Acq: 28 Aug 2019 19:38

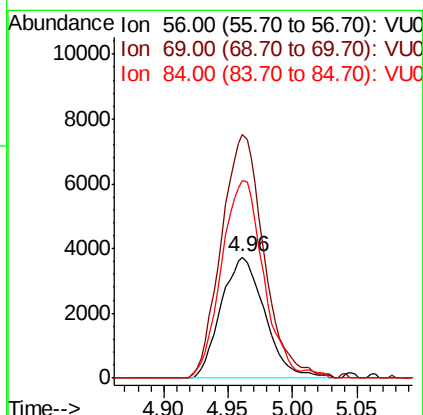
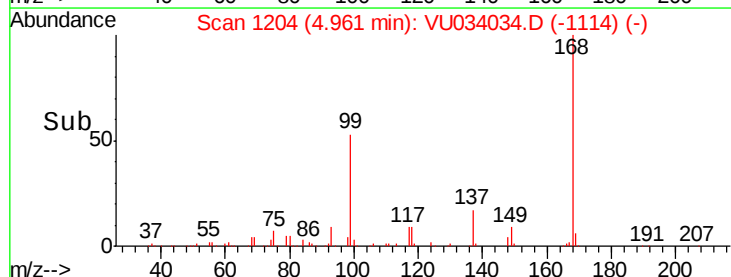
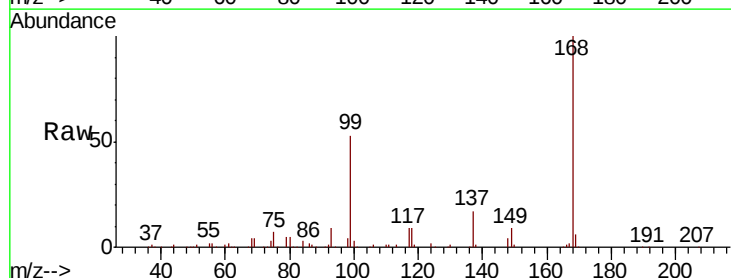
Instrument :
MSVOA_U
ClientSampled :
GW-2

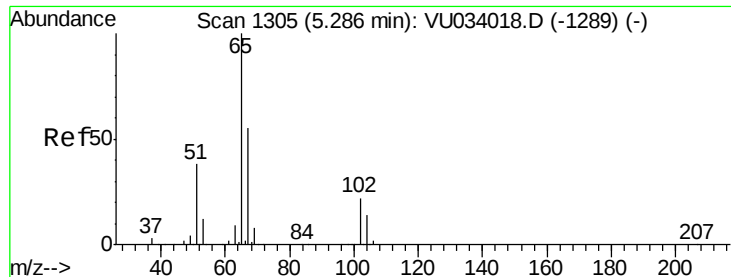
Tgt Ion: 43 Resp: 18705
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#31
Cyclohexane
Concen: 0.961 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034034.D
Acq: 28 Aug 2019 19:38

Tgt Ion: 56 Resp: 8825
Ion Ratio Lower Upper
56 100
69 201.0 25.4 38.0#
84 162.9 65.8 98.8#





#33

1,2-Dichloroethane-d4

Concen: 48.393 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

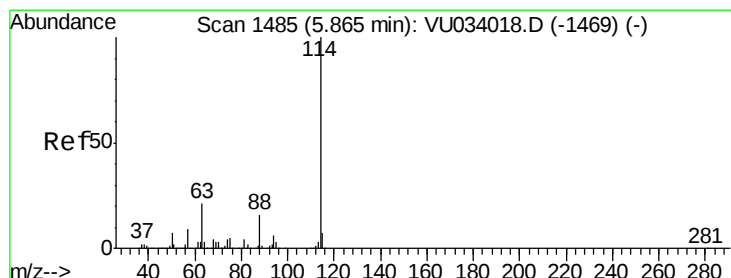
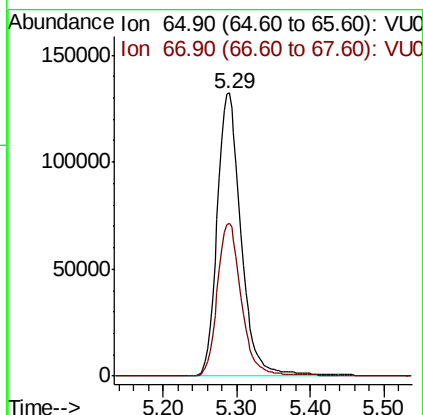
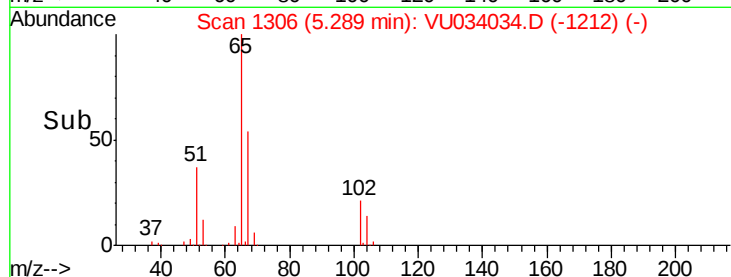
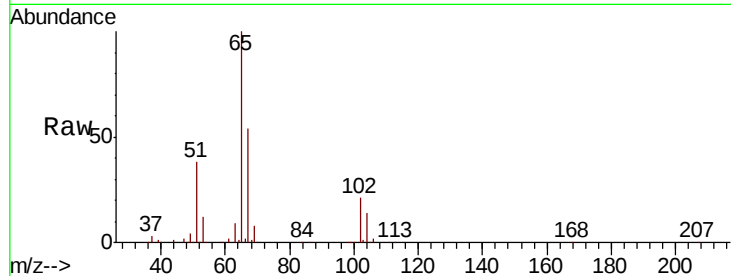
Lab File: VU034034.D

Acq: 28 Aug 2019 19:38

Instrument :
MSVOA_U
ClientSampled :
GW-2

Tgt Ion: 65 Resp: 297696

Ion	Ratio	Lower	Upper
65	100		
67	54.1	0.0	110.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

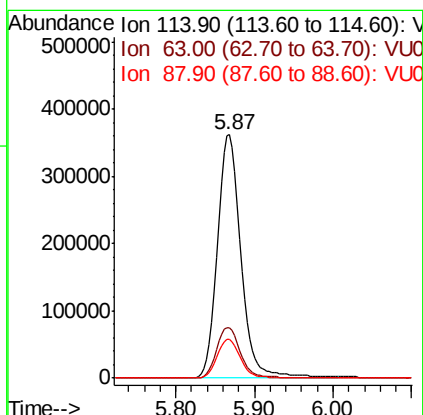
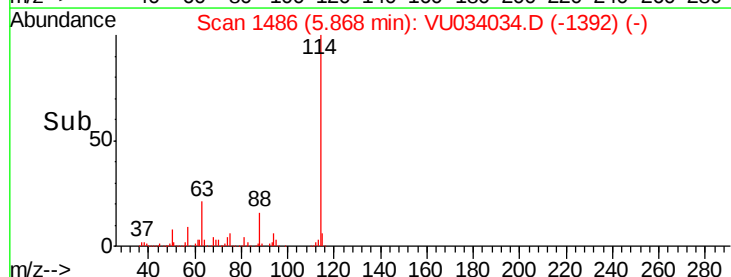
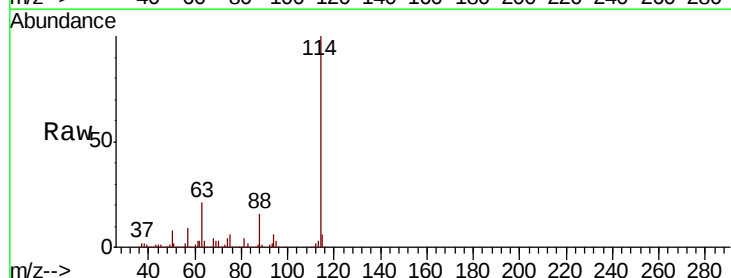
Delta R.T. 0.00 min

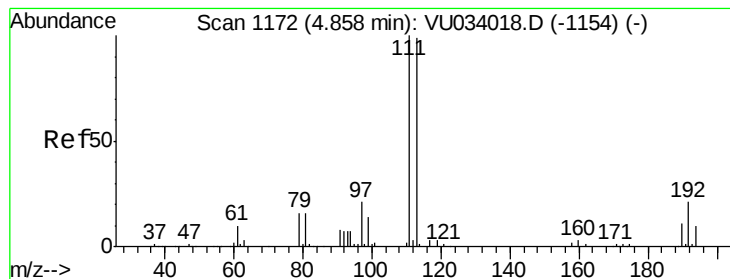
Lab File: VU034034.D

Acq: 28 Aug 2019 19:38

Tgt Ion: 114 Resp: 747638

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	42.0
88	15.8	0.0	32.0





#35

Dibromofluoromethane

Concen: 46.646 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034034.D

Acq: 28 Aug 2019 19:38

Instrument :

MSVOA_U

ClientSampled :

GW-2

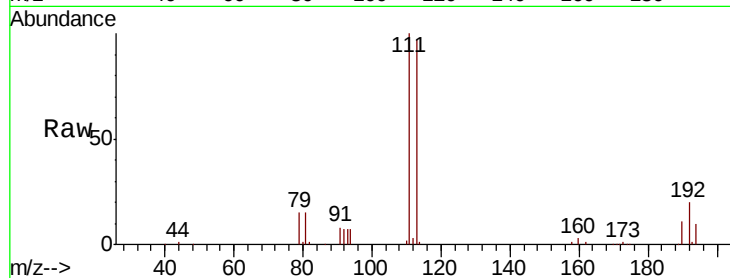
Tgt Ion: 113 Resp: 241883

Ion Ratio Lower Upper

113 100

111 104.3 81.7 122.5

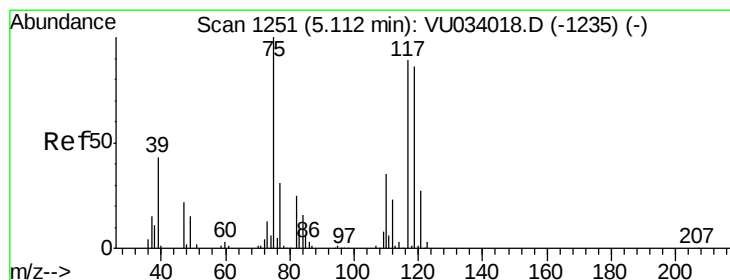
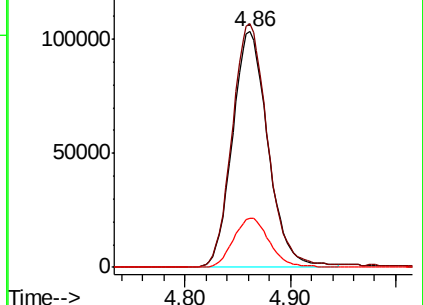
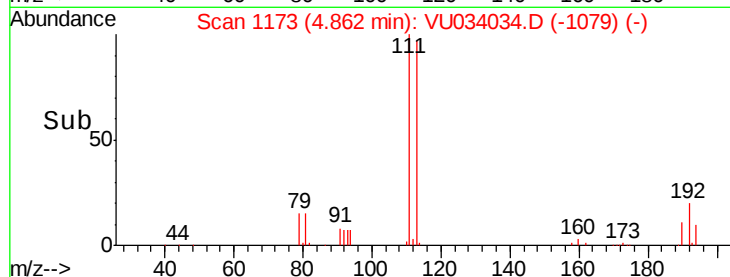
192 21.3 17.1 25.7



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: 5.026 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034034.D

Acq: 28 Aug 2019 19:38

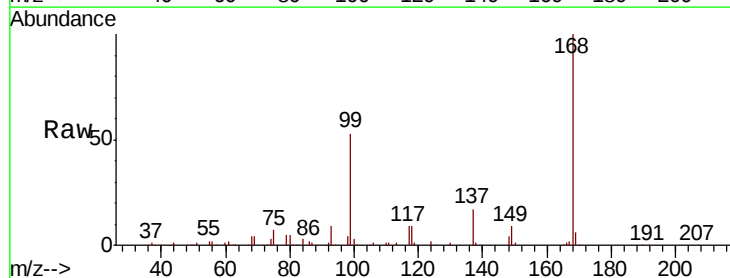
Tgt Ion: 75 Resp: 35541

Ion Ratio Lower Upper

75 100

110 7.9 17.8 53.5#

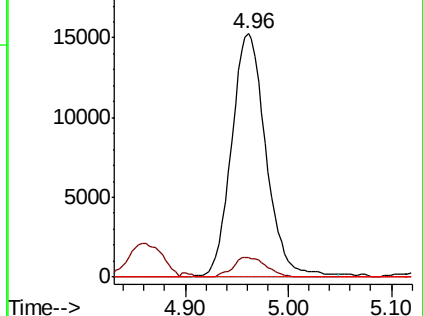
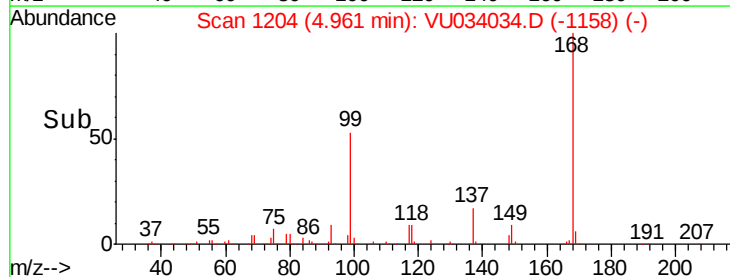
77 0.0 25.0 37.4#

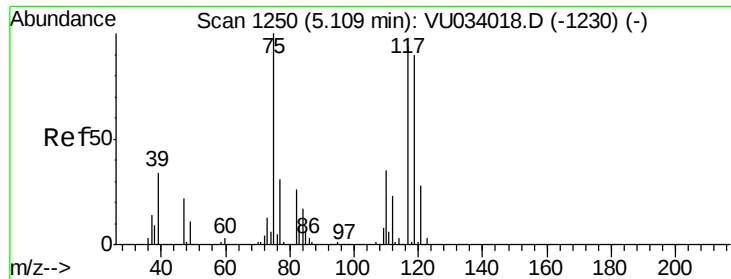


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

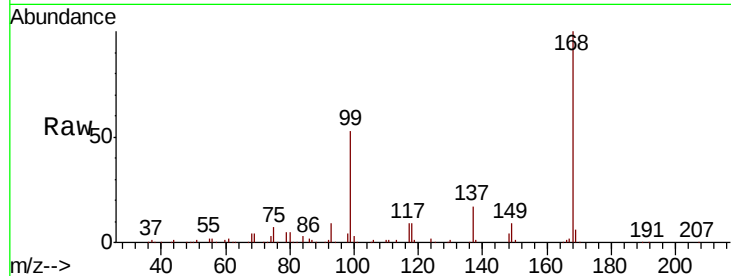




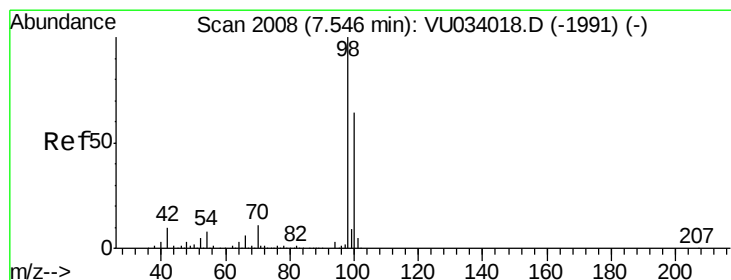
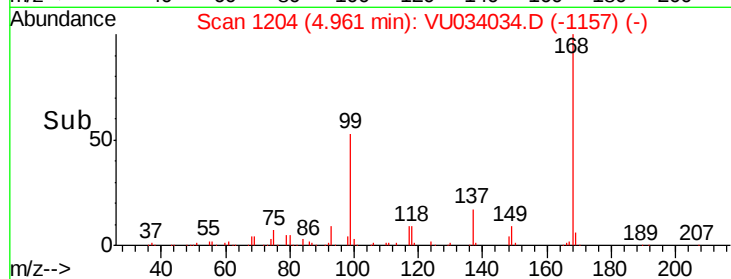
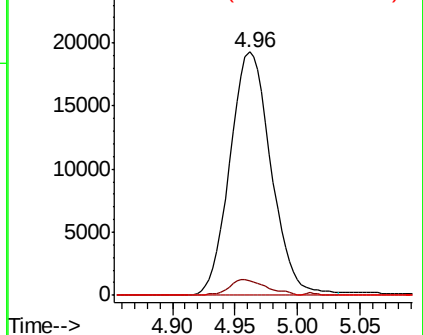
#38
 Carbon Tetrachloride
 Concen: 6.445 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034034.D
 Acq: 28 Aug 2019 19:38

Instrument :
 MSVOA_U
 ClientSampled :
 GW-2

Tgt Ion: 117 Resp: 43993
 Ion Ratio Lower Upper
 117 100
 119 6.0 77.0 115.4#
 121 0.0 23.9 35.9#

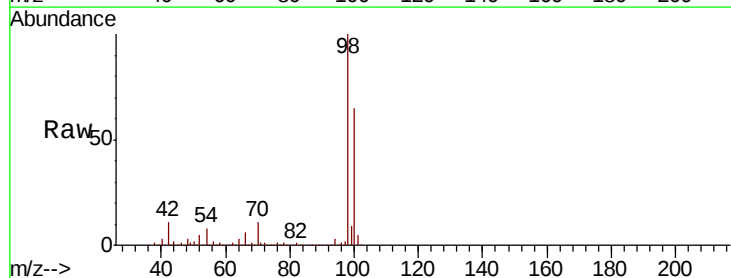


Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

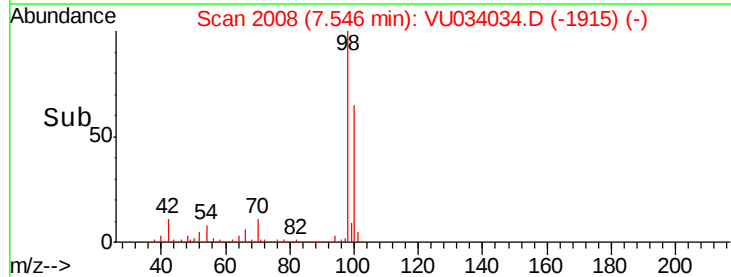
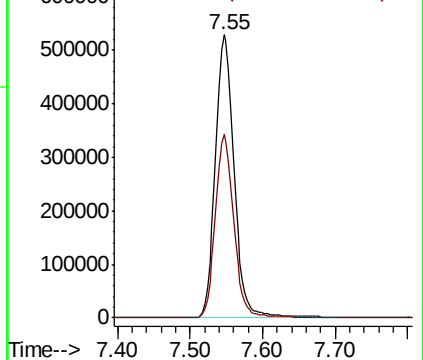


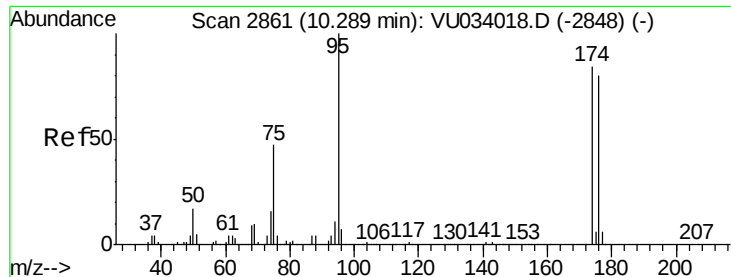
#50
 Toluene-d8
 Concen: 49.190 ug/l
 RT: 7.55 min Scan# 2008
 Delta R.T. 0.00 min
 Lab File: VU034034.D
 Acq: 28 Aug 2019 19:38

Tgt Ion: 98 Resp: 955103
 Ion Ratio Lower Upper
 98 100
 100 63.6 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU0
 Ion 100.00 (99.70 to 100.70): VU

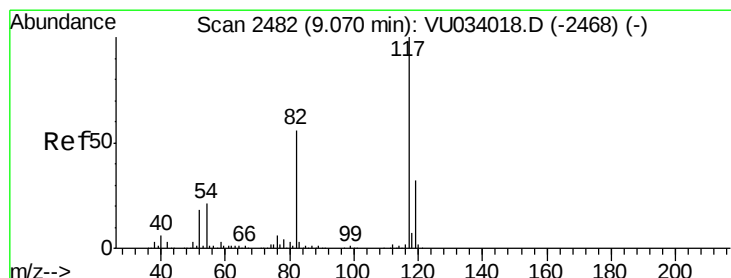
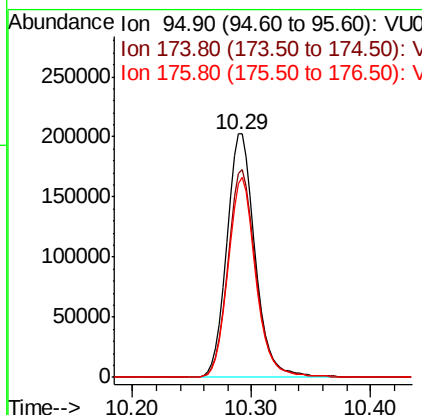
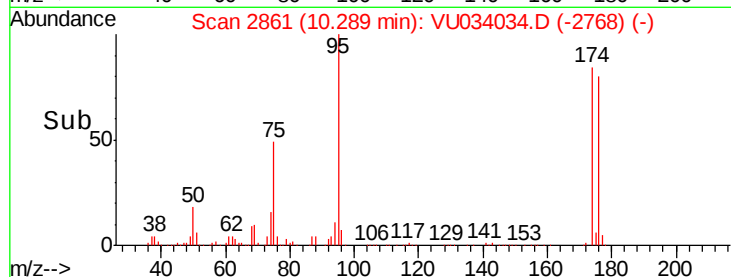
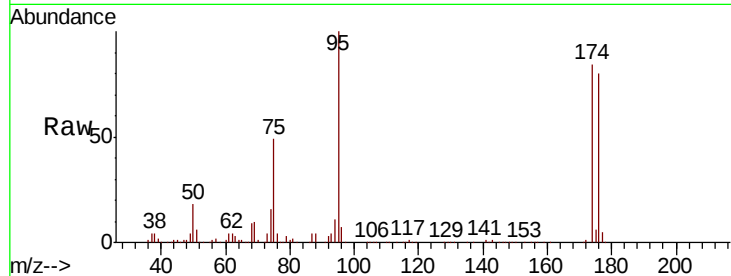




#62
4-Bromofluorobenzene
Concen: 44.176 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034034.D
Acq: 28 Aug 2019 19:38

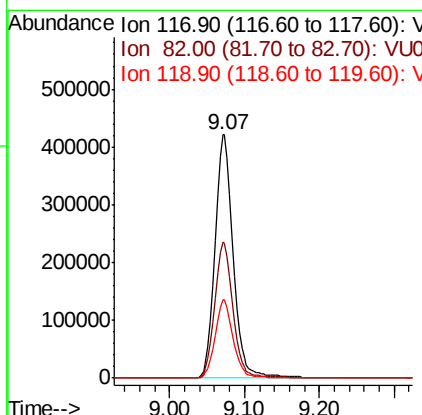
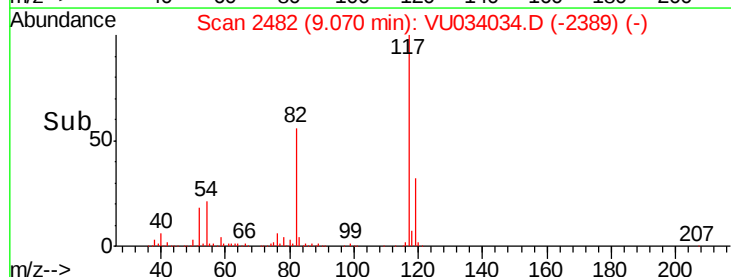
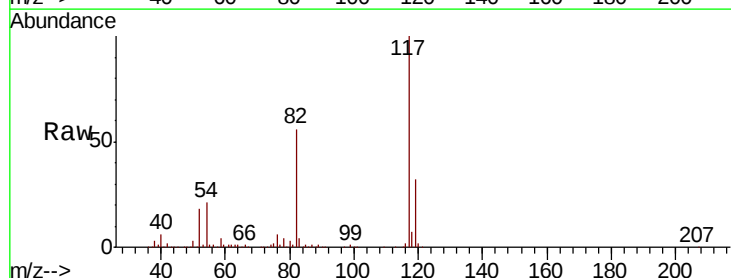
Instrument :
MSVOA_U
ClientSampleId :
GW-2

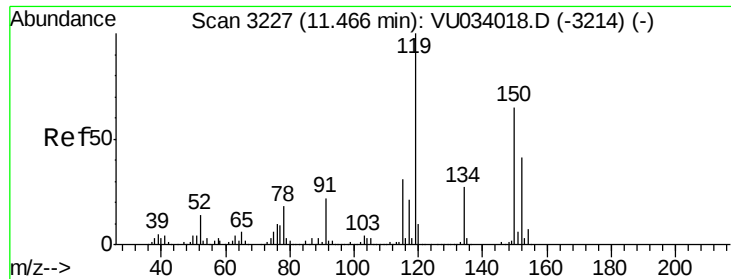
Tgt Ion: 95 Resp: 333657
Ion Ratio Lower Upper
95 100
174 84.7 0.0 168.8
176 80.8 0.0 161.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034034.D
Acq: 28 Aug 2019 19:38

Tgt Ion: 117 Resp: 714993
Ion Ratio Lower Upper
117 100
82 55.8 45.1 67.7
119 32.2 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.47 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VU034034.D

Acq: 28 Aug 2019 19:38

Instrument :

MSVOA_U

ClientSampleId :

GW-2

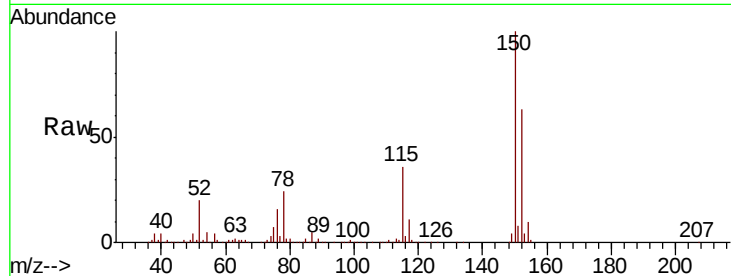
Tgt Ion:152 Resp: 356782

Ion Ratio Lower Upper

152 100

115 57.3 41.1 123.3

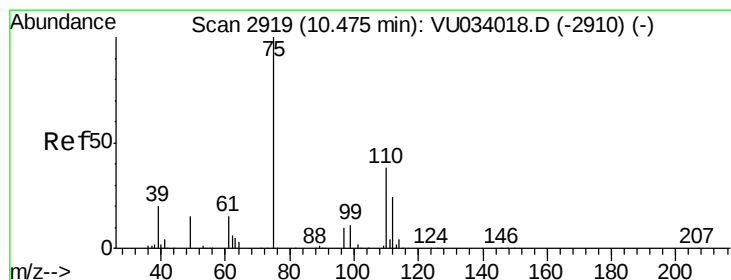
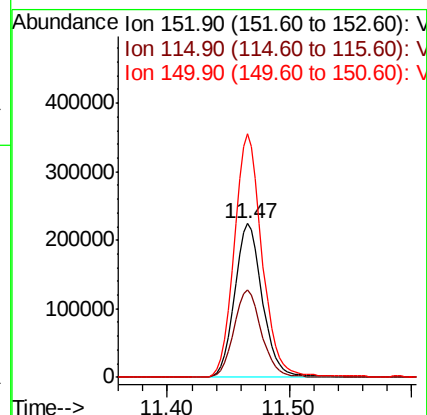
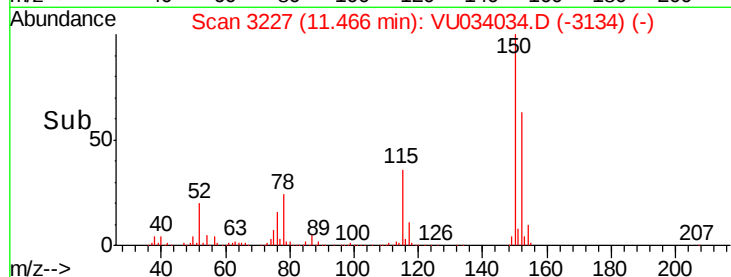
150 158.0 0.0 348.8



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: 20.257 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034034.D

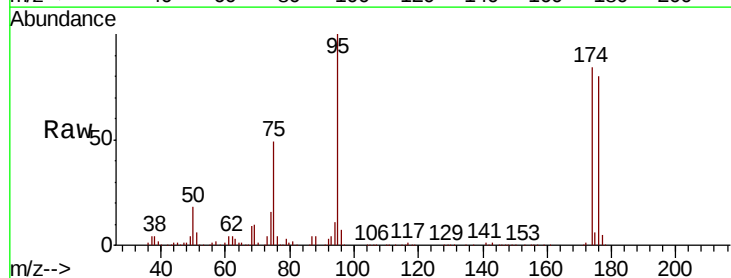
Acq: 28 Aug 2019 19:38

Tgt Ion: 75 Resp: 162891

Ion Ratio Lower Upper

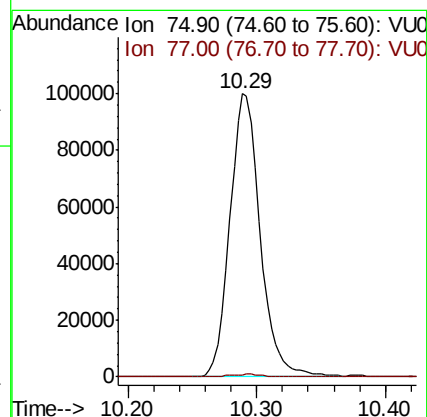
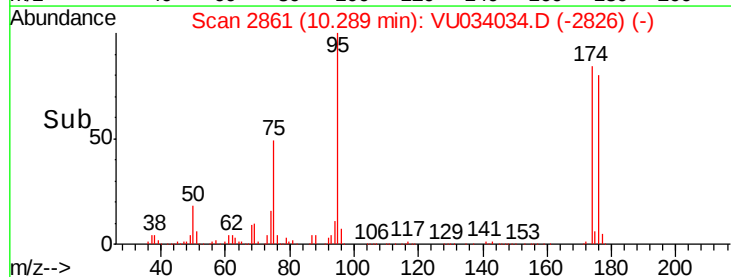
75 100

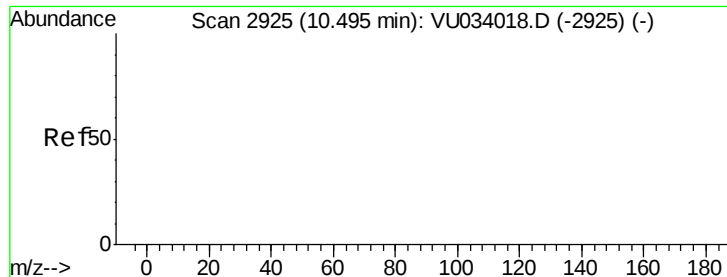
77 1.1 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81

trans-1,4-Dichloro-2-butene

Concen: 68.210 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034034.D

Acq: 28 Aug 2019 19:38

Instrument :

MSVOA_U

ClientSampleId :

GW-2

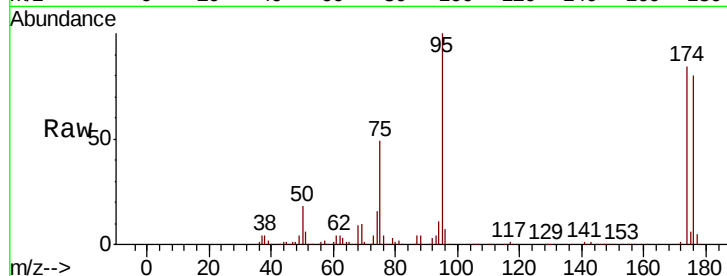
Tgt Ion: 75 Resp: 162891

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

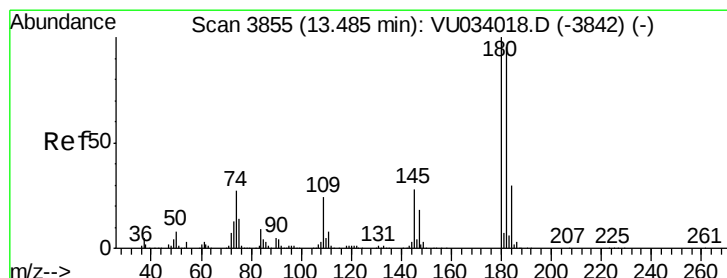
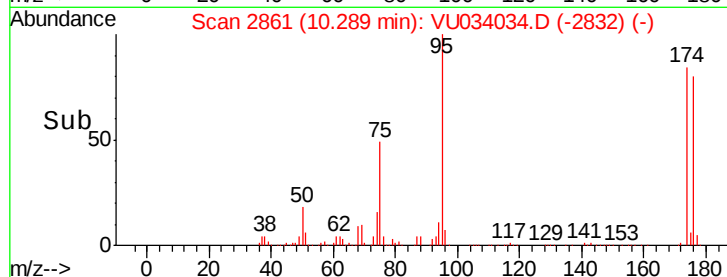
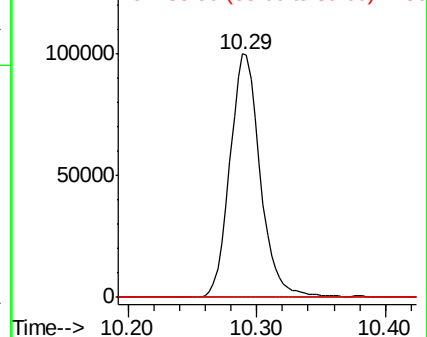
89 0.0 0.0 0.0



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



#93

1,2,4-Trichlorobenzene

Concen: 1.119 ug/l

RT: 13.52 min Scan# 3865

Delta R.T. 0.03 min

Lab File: VU034034.D

Acq: 28 Aug 2019 19:38

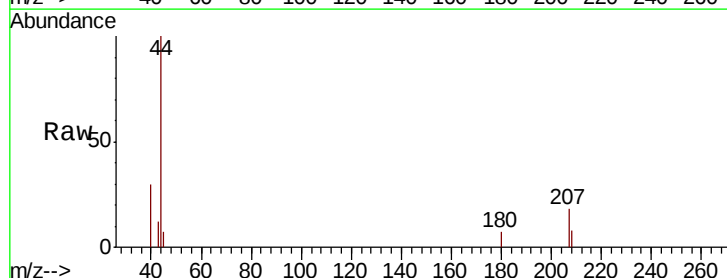
Tgt Ion: 180 Resp: 44

Ion Ratio Lower Upper

180 100

182 0.0 47.4 142.2#

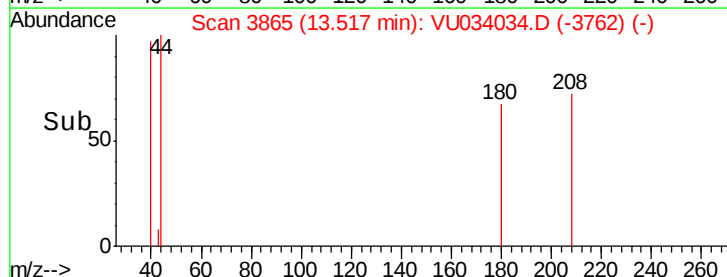
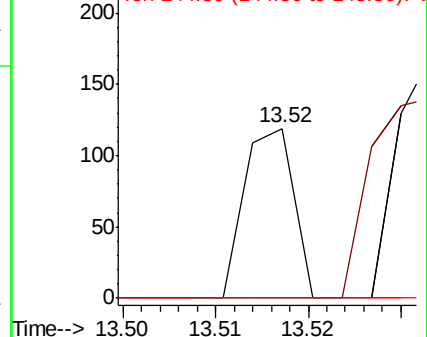
145 0.0 14.1 42.3#

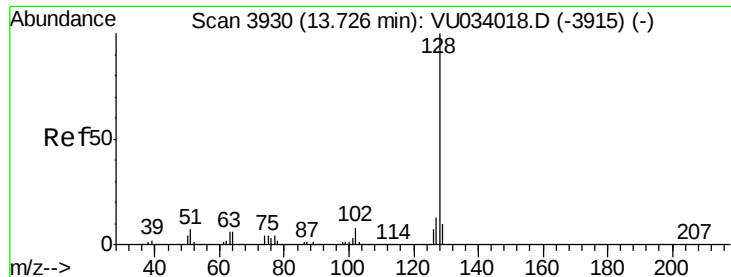


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95
Naphthalene
Concen: 1.807 ug/l
RT: 13.78 min Scan# 3946
Delta R.T. 0.05 min
Lab File: VU034034.D
Acq: 28 Aug 2019 19:38

Instrument :
MSVOA_U
ClientSampleId :
GW-2

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

