

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU063018\
 Data File : VU025120.D
 Acq On : 01 Jul 2018 05:20
 Operator : MD/SY
 Sample : J3804-06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GPW-02

Quant Time: Jul 02 05:47:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	210531	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	313891	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	292630	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	150574	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	158024	45.98	ug/l	0.00
Spiked Amount			Recovery	=	91.96%	
35) Dibromofluoromethane	4.89	113	122759	47.12	ug/l	0.00
Spiked Amount			Recovery	=	94.24%	
50) Toluene-d8	7.57	98	452465	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	
62) 4-Bromofluorobenzene	10.31	95	170262	45.13	ug/l	0.00
Spiked Amount			Recovery	=	90.26%	

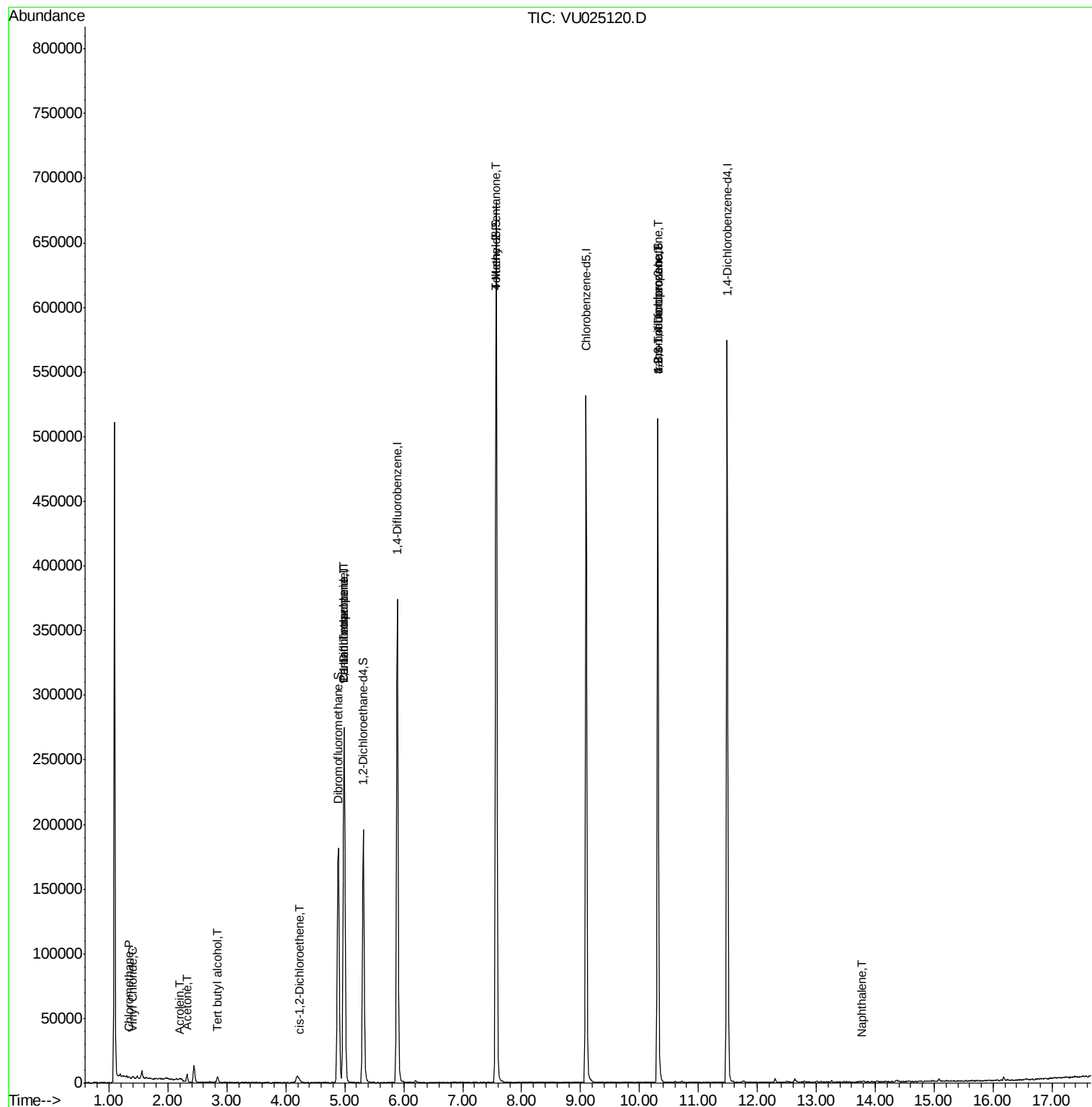
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	742	0.276	ug/l	99
4) Vinyl Chloride	1.41	62	588	0.212	ug/l #	83
6) Chloroethane	1.70	64	134	Below Cal	#	43
11) Tert butyl alcohol	2.84	59	2820	3.374	ug/l #	72
13) Acrolein	2.20	56	144	0.328	ug/l #	1
16) Acetone	2.32	43	6890	3.731	ug/l	91
27) cis-1,2-Dichloroethene	4.23	96	1378	0.454	ug/l	86
31) Cyclohexane	4.99	56	4508	Below Cal	#	18
36) 1,1-Dichloropropene	4.99	75	15589	4.226	ug/l #	51
38) Carbon Tetrachloride	4.99	117	19901	4.906	ug/l #	16
51) 4-Methyl-2-Pentanone	7.57	43	2002	0.459	ug/l #	1
76) 1,2,3-Trichloropropane	10.31	75	87479	26.388	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	87479	61.073	ug/l #	100
95) Naphthalene	13.77	128	174	0.695	ug/l #	69

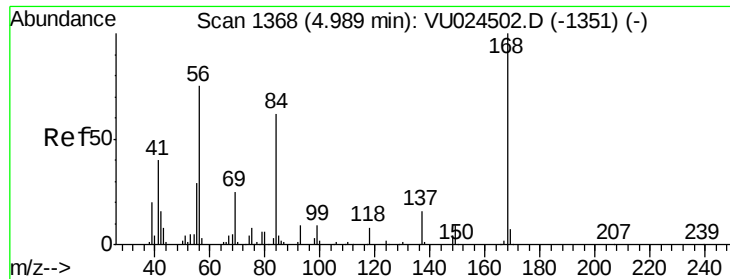
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025120.D

Acq: 01 Jul 2018 05:20

Instrument :

MSVOA_U

ClientSampleId :

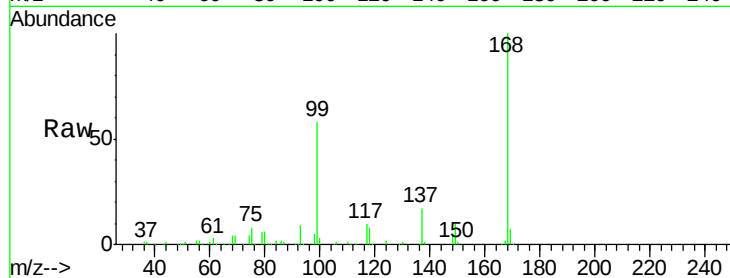
GPW-02

Tgt Ion:168 Resp: 210531

Ion Ratio Lower Upper

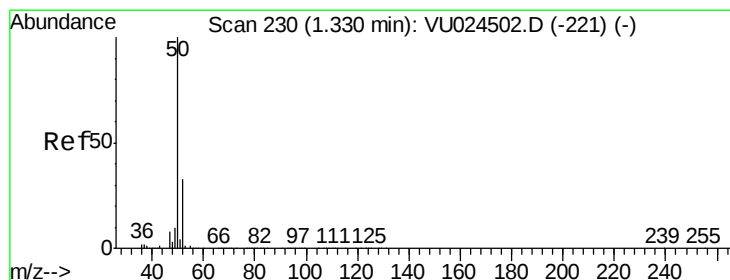
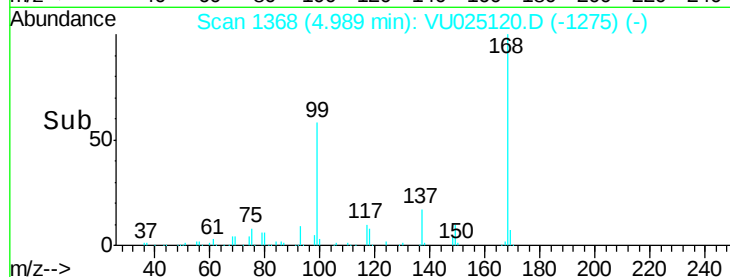
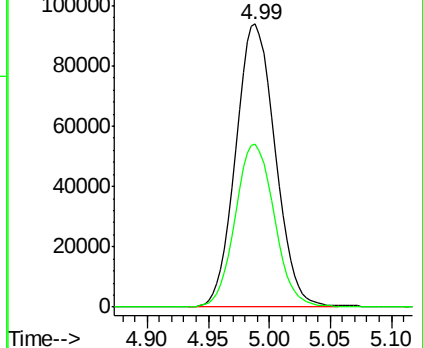
168 100

99 57.8 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU025120.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU025120.D (-1275) (-)



#3

Chloromethane

Concen: 0.276 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025120.D

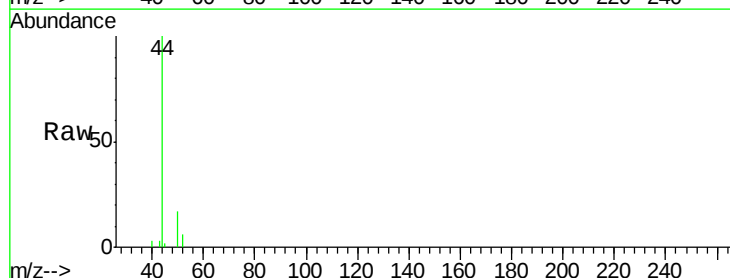
Acq: 01 Jul 2018 05:20

Tgt Ion: 50 Resp: 742

Ion Ratio Lower Upper

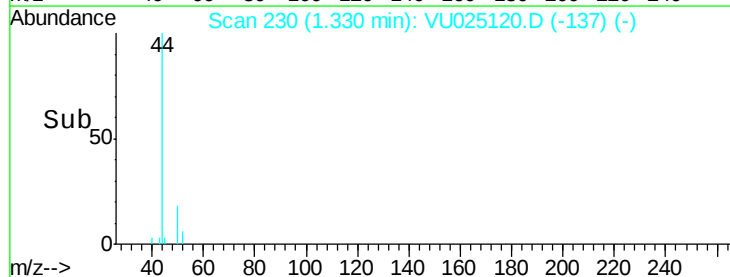
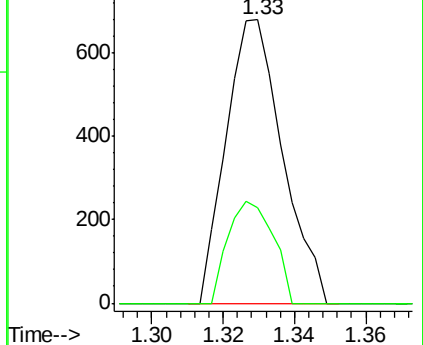
50 100

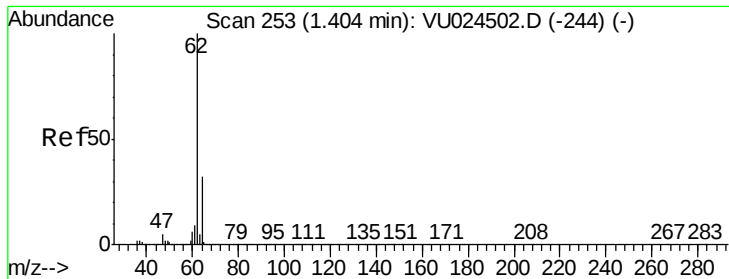
52 33.6 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU025120.D (-137) (-)

Ion 51.90 (51.60 to 52.60): VU025120.D (-137) (-)





#4

Vinyl Chloride

Concen: 0.212 ug/l

RT: 1.41 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU025120.D

Acq: 01 Jul 2018 05:20

Instrument :

MSVOA_U

ClientSampleId :

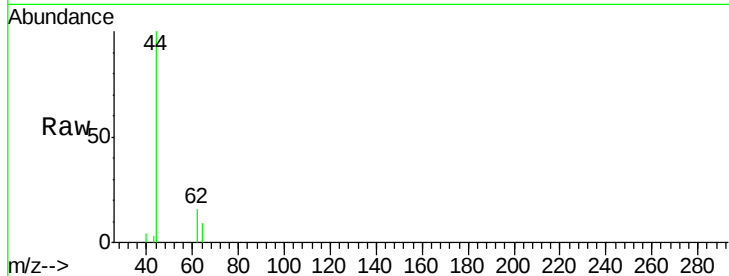
GPW-02

Tgt Ion: 62 Resp: 588

Ion Ratio Lower Upper

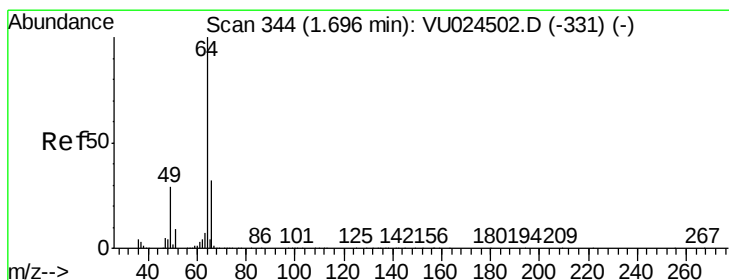
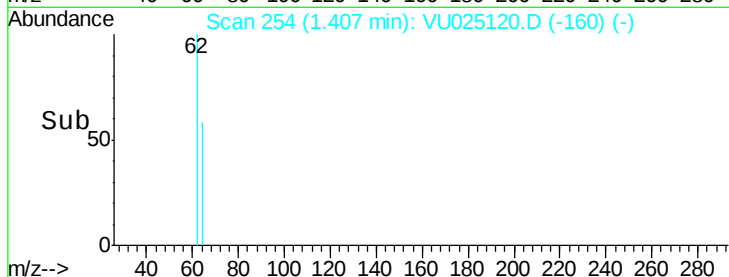
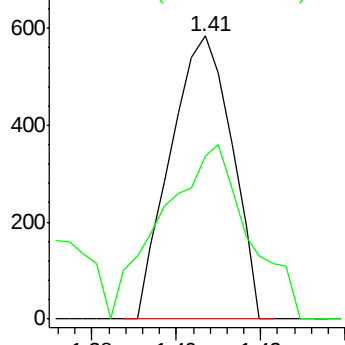
62 100

64 40.2 24.8 37.2#



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU025120.D

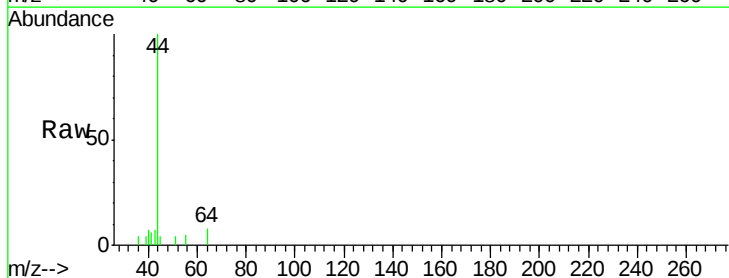
Acq: 01 Jul 2018 05:20

Tgt Ion: 64 Resp: 134

Ion Ratio Lower Upper

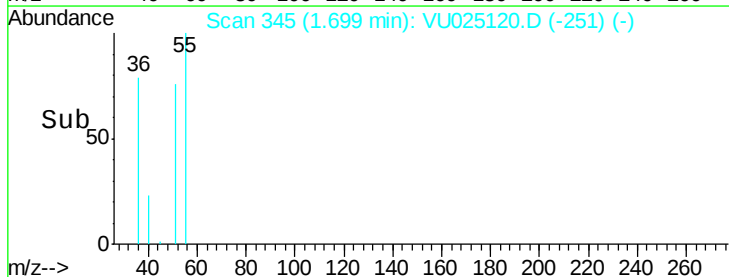
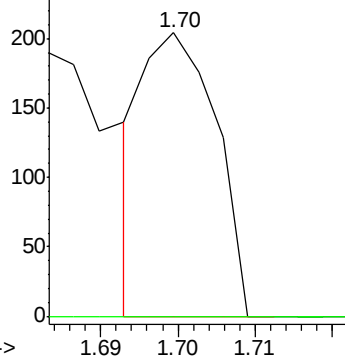
64 100

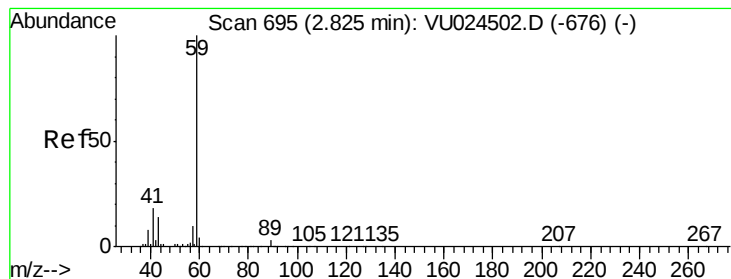
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#11

Tert butyl alcohol

Concen: 3.374 ug/l

RT: 2.84 min Scan# 699

Delta R.T. 0.01 min

Lab File: VU025120.D

Acq: 01 Jul 2018 05:20

Instrument :

MSVOA_U

ClientSampleId :

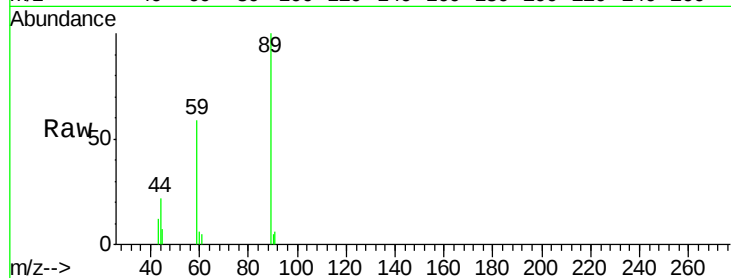
GPW-02

Tgt Ion: 59 Resp: 2820

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.84

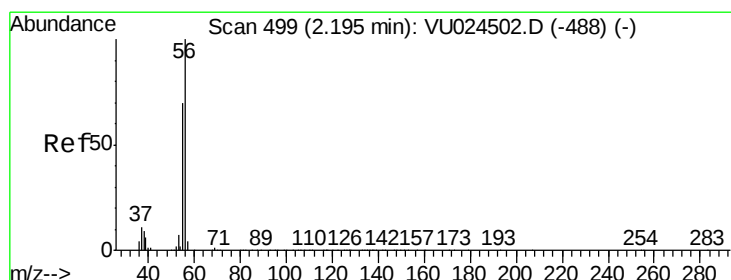
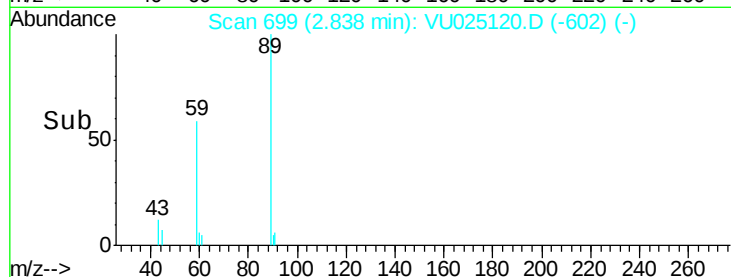
1500

1000

500

0

Time-->



#13

Acrolein

Concen: 0.328 ug/l

RT: 2.20 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU025120.D

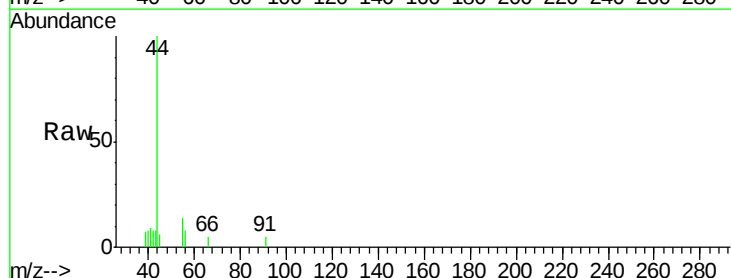
Acq: 01 Jul 2018 05:20

Tgt Ion: 56 Resp: 144

Ion Ratio Lower Upper

56 100

55 556.9 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

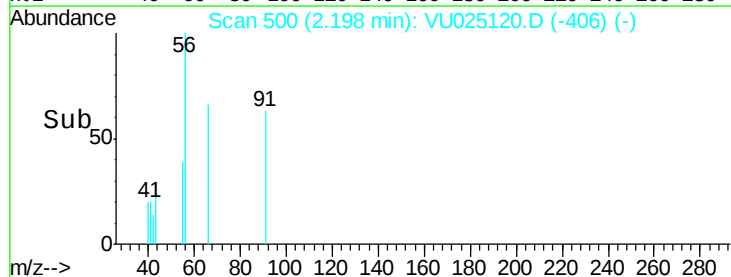
300

200

100

0

Time-->





#16

Acetone

Concen: 3.731 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025120.D

Acq: 01 Jul 2018 05:20

Instrument :

MSVOA_U

ClientSampleId :

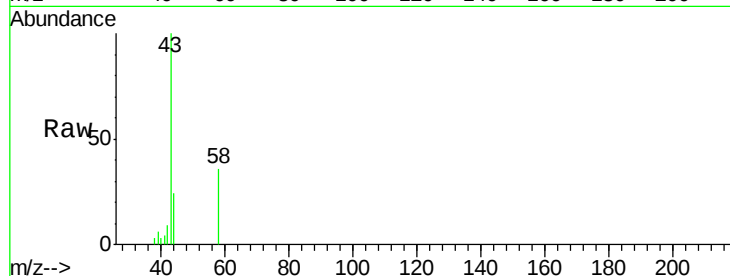
GPW-02

Tgt Ion: 43 Resp: 6890

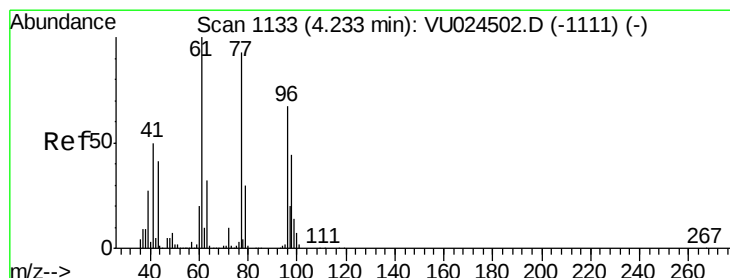
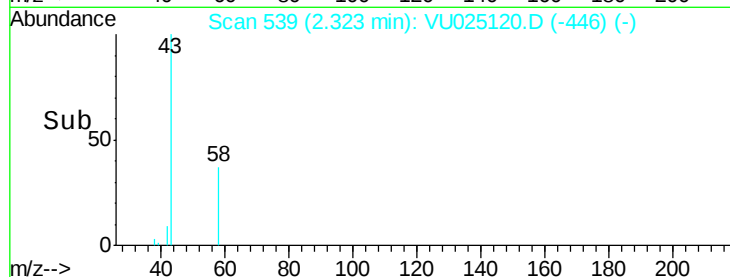
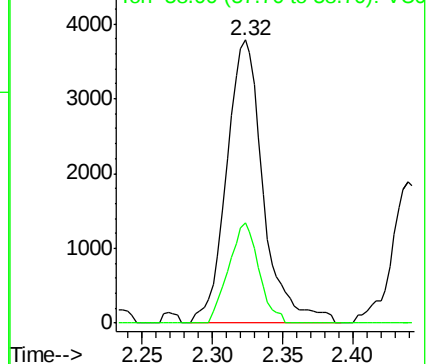
Ion Ratio Lower Upper

43 100

58 35.5 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU025120.D (-446) (-)



#27

cis-1,2-Dichloroethene

Concen: 0.454 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VU025120.D

Acq: 01 Jul 2018 05:20

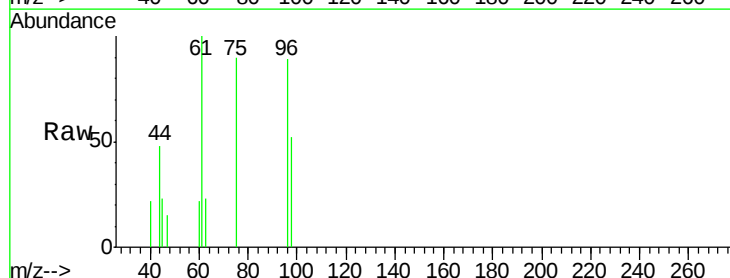
Tgt Ion: 96 Resp: 1378

Ion Ratio Lower Upper

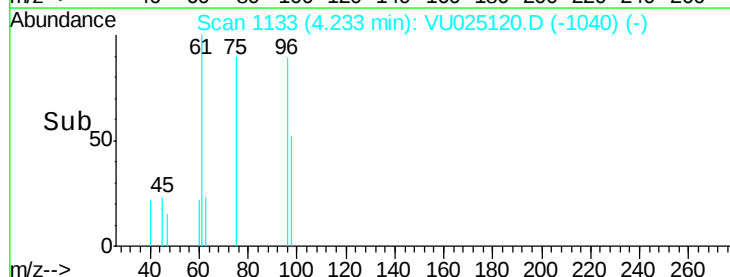
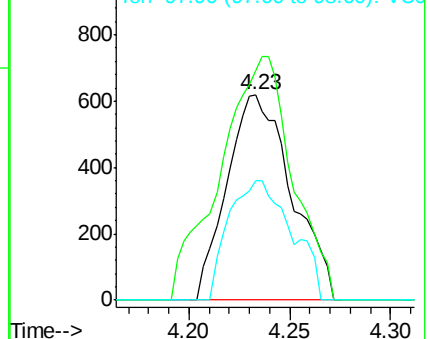
96 100

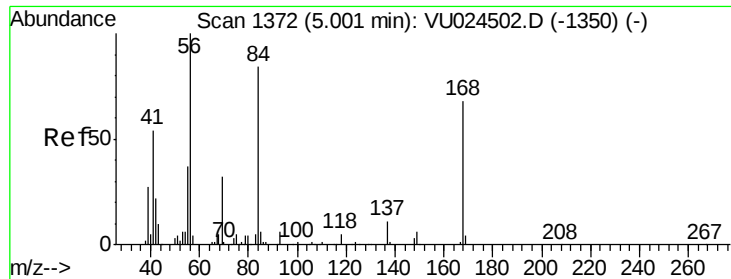
61 133.2 0.0 306.6

98 56.6 0.0 128.8



Abundance Ion 95.90 (95.60 to 96.60): VU025120.D (-1040) (-)

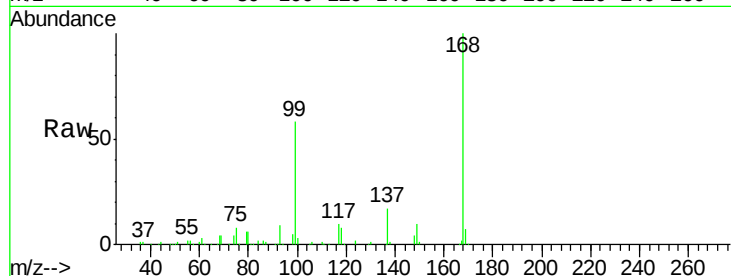




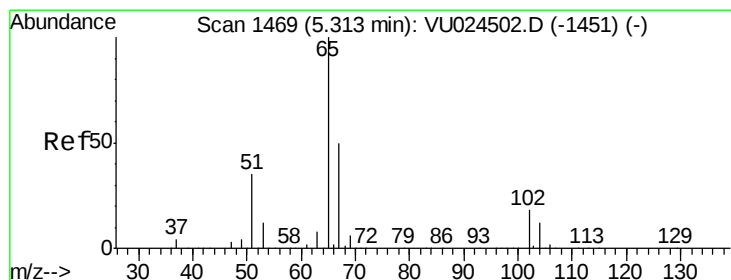
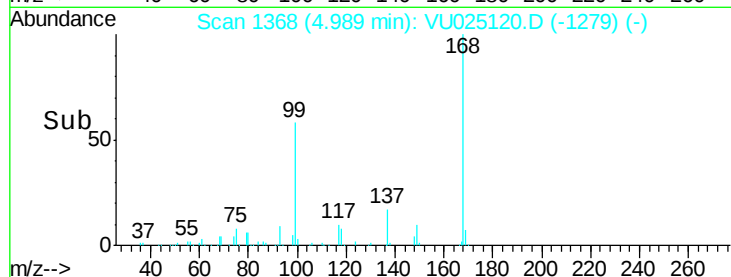
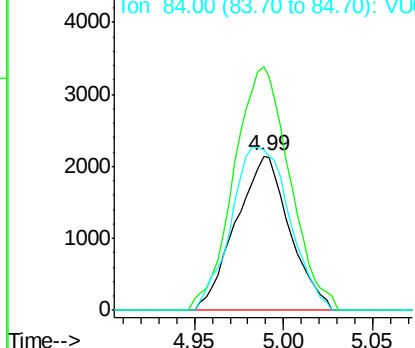
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU025120.D
Acq: 01 Jul 2018 05:20

Instrument :
MSVOA_U
ClientSampleId :
GPW-02

Tgt Ion: 56 Resp: 4508
Ion Ratio Lower Upper
56 100
69 158.1 24.8 37.2#
84 103.9 65.2 97.8#

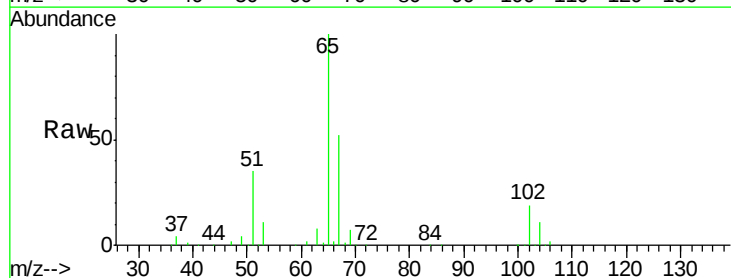


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

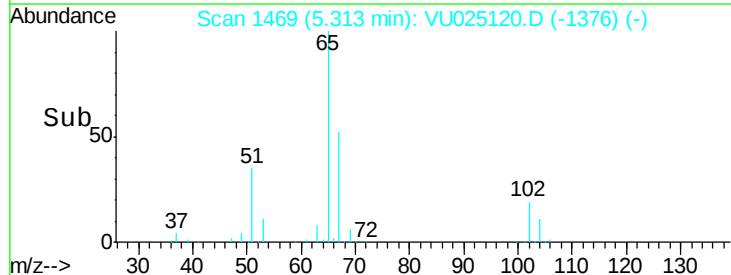
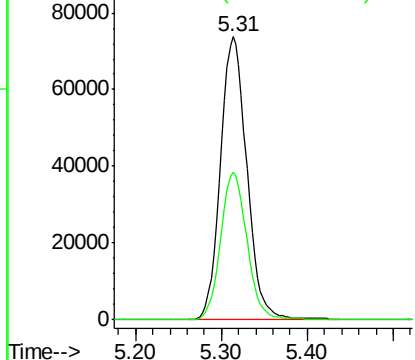


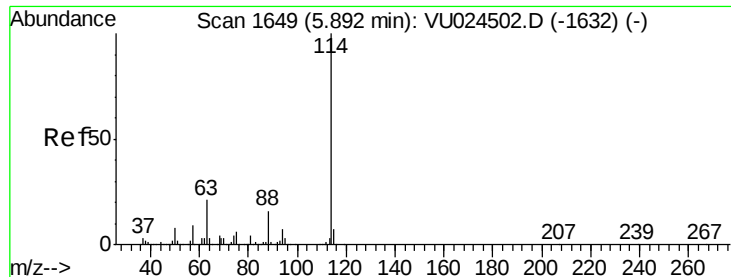
#33
1,2-Dichloroethane-d4
Concen: 45.978 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU025120.D
Acq: 01 Jul 2018 05:20

Tgt Ion: 65 Resp: 158024
Ion Ratio Lower Upper
65 100
67 51.6 0.0 107.0



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

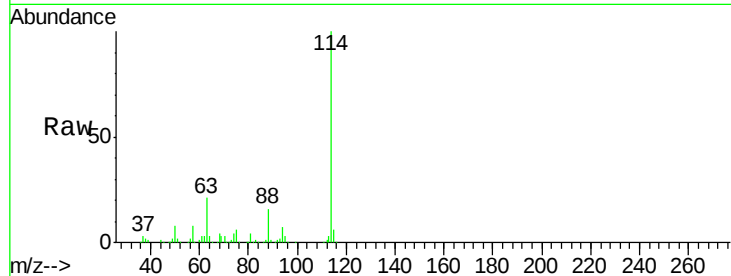




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.89 min Scan# 1649
Delta R.T. 0.00 min
Lab File: VU025120.D
Acq: 01 Jul 2018 05:20

Instrument :
MSVOA_U
ClientSampleId :
GPW-02

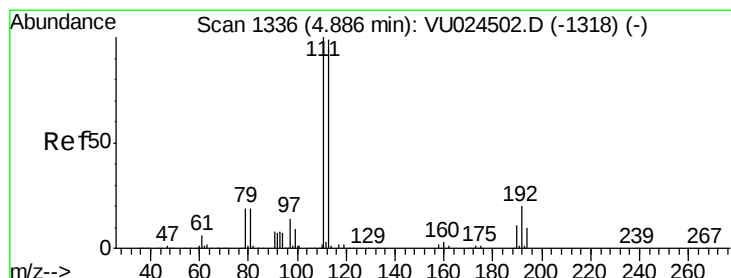
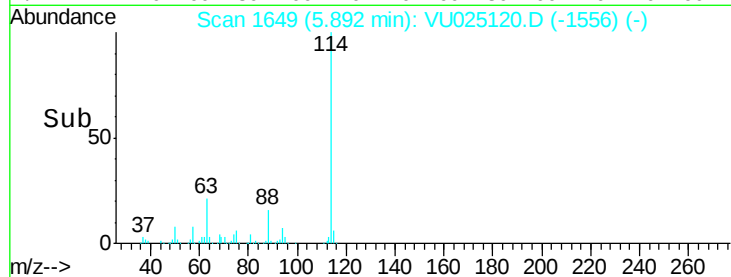
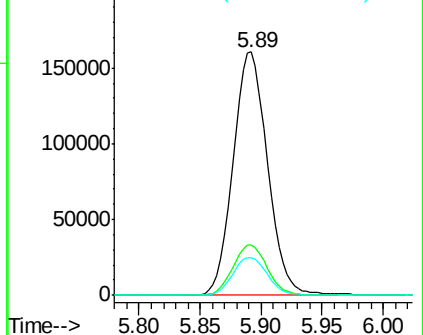
Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	45.4
88	15.6	0.0	31.0



Abundance Ion 113.90 (113.60 to 114.60): V

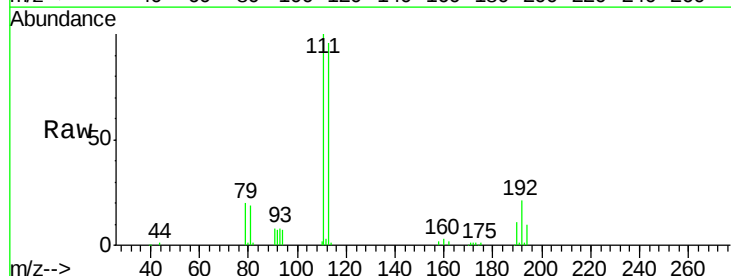
Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35
Dibromofluoromethane
Concen: 47.123 ug/l
RT: 4.89 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VU025120.D
Acq: 01 Jul 2018 05:20

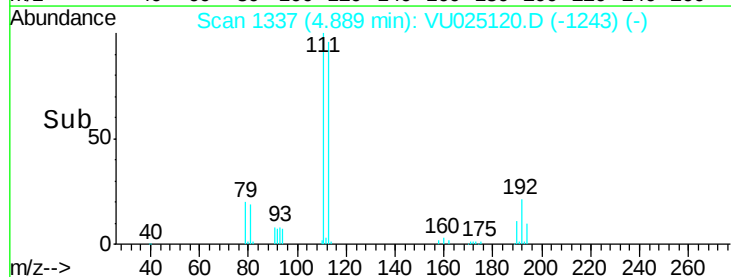
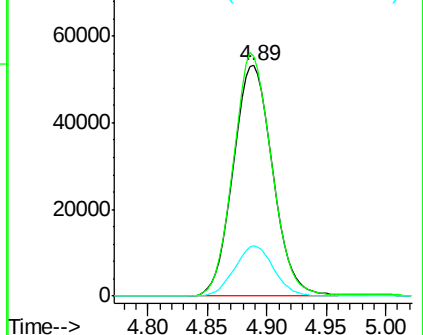
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.2	123.4
192	21.7	16.2	24.4

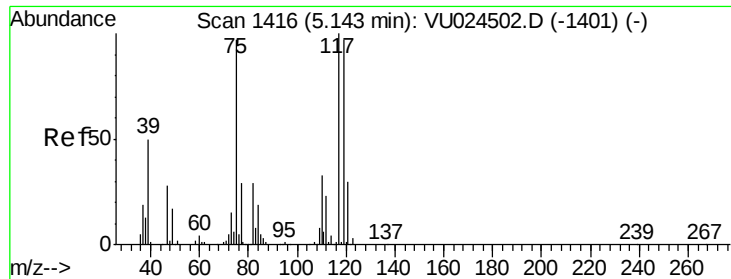


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

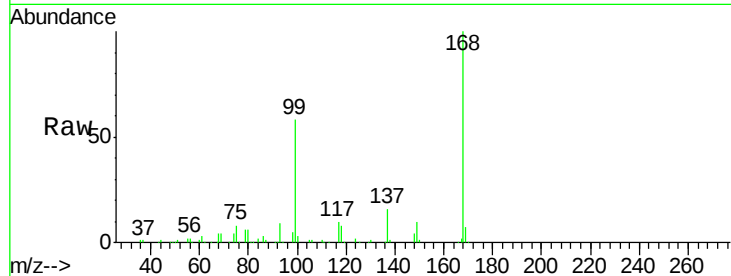




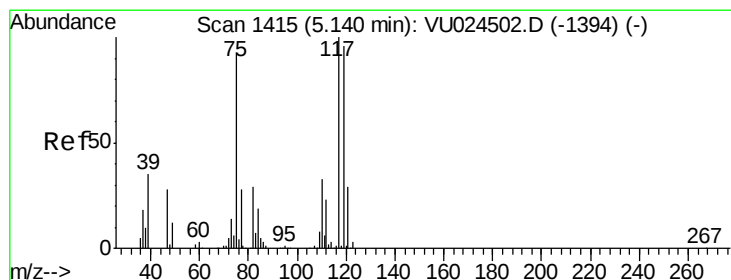
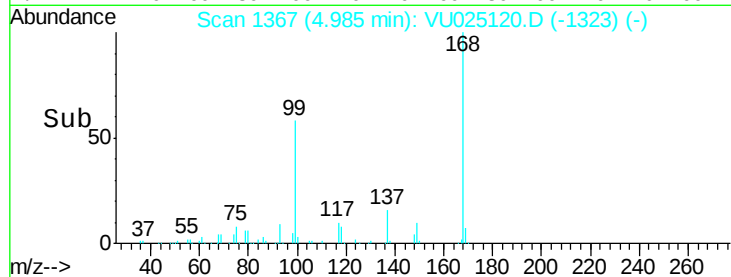
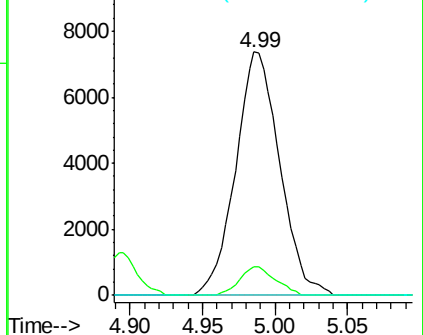
#36
 1,1-Dichloropropene
 Concen: 4.226 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU025120.D
 Acq: 01 Jul 2018 05:20

Instrument :
 MSVOA_U
 ClientSampleId :
 GPW-02

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	17.0	50.9#
77	0.0	24.2	36.4#

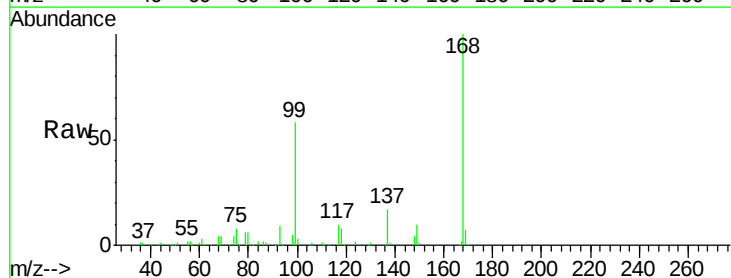


Abundance Ion 74.90 (74.60 to 75.60): VU025120.D (-1367) (-)

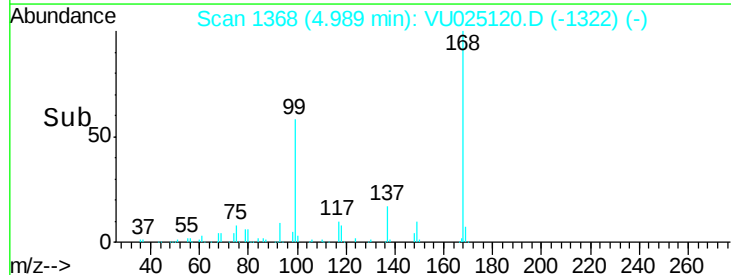
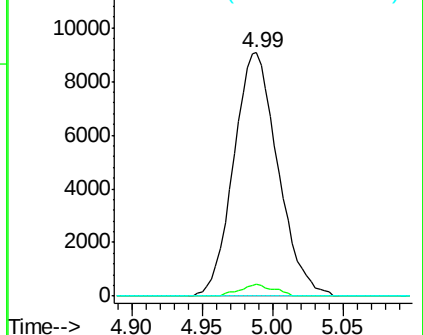


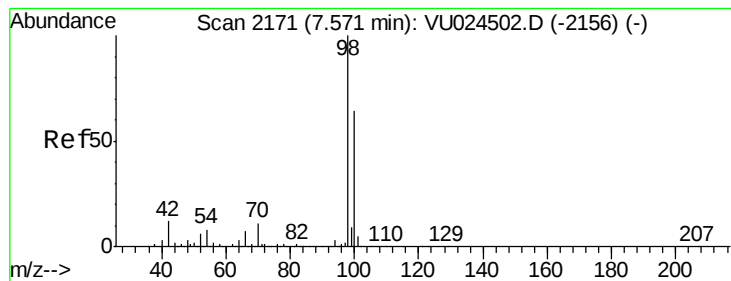
#38
 Carbon Tetrachloride
 Concen: 4.906 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025120.D
 Acq: 01 Jul 2018 05:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	76.1	114.1#
121	0.0	23.7	35.5#



Abundance Ion 116.80 (116.50 to 117.50): VU025120.D (-1368) (-)





#50

Toluene-d8

Concen: 47.617 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU025120.D

Acq: 01 Jul 2018 05:20

Instrument :

MSVOA_U

ClientSampleId :

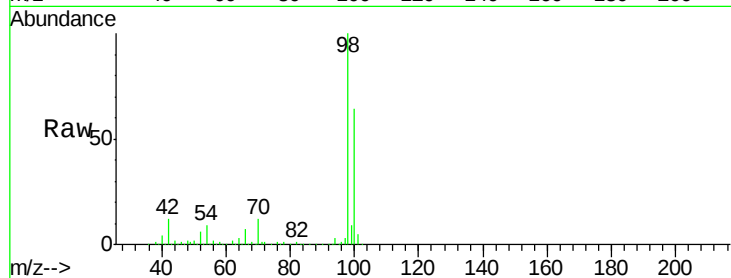
GPW-02

Tgt Ion: 98 Resp: 452465

Ion Ratio Lower Upper

98 100

100 64.0 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU024502.D (-2156) (-)

Ion 100.00 (99.70 to 100.70): VU024502.D (-2156) (-)

7.57

250000

200000

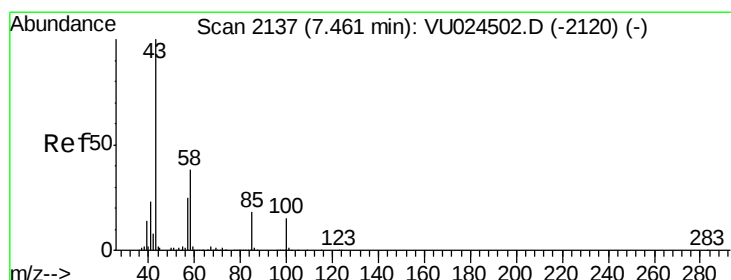
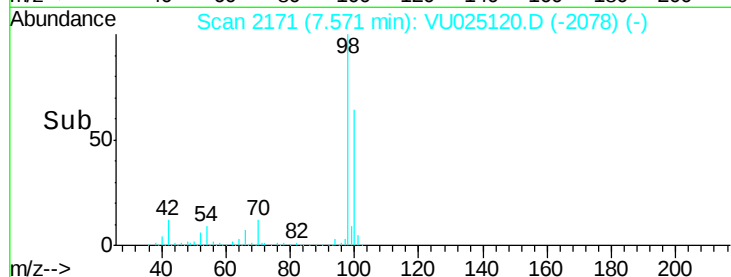
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.459 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.11 min

Lab File: VU025120.D

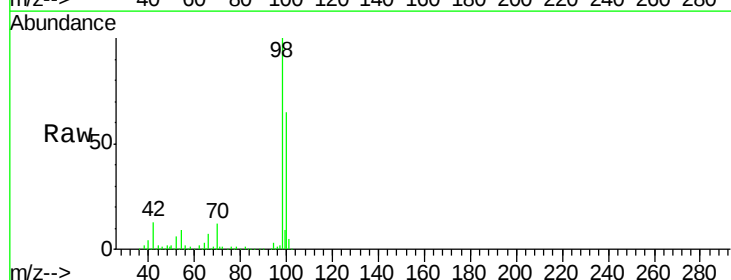
Acq: 01 Jul 2018 05:20

Tgt Ion: 43 Resp: 2002

Ion Ratio Lower Upper

43 100

58 176.7 30.0 45.0#



Abundance Ion 43.00 (42.70 to 43.70): VU024502.D (-2120) (-)

Ion 58.00 (57.70 to 58.70): VU024502.D (-2120) (-)

2500

2000

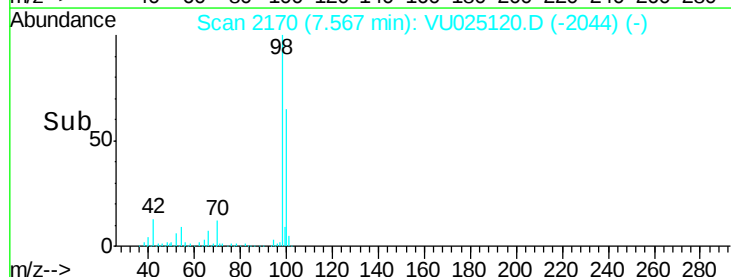
1500

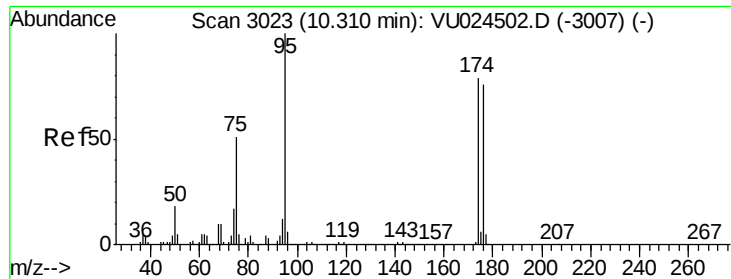
1000

500

0

Time-->





#62

4-Bromofluorobenzene

Concen: 45.129 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025120.D

Acq: 01 Jul 2018 05:20

Instrument :

MSVOA_U

ClientSampleId :

GPW-02

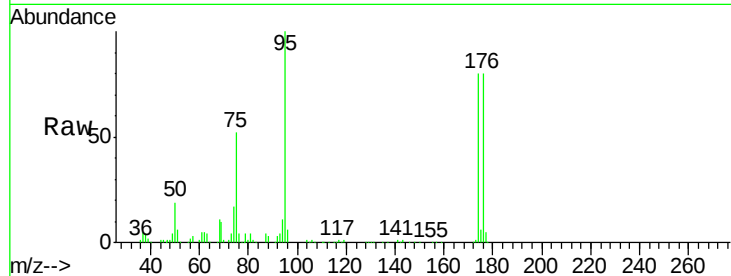
Tgt Ion: 95 Resp: 170262

Ion Ratio Lower Upper

95 100

174 82.3 0.0 165.8

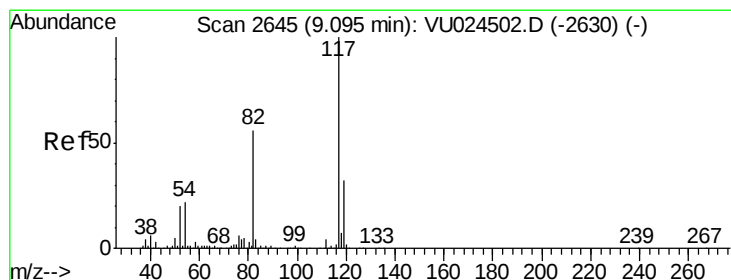
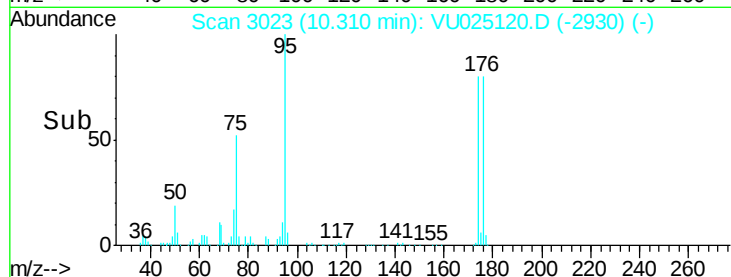
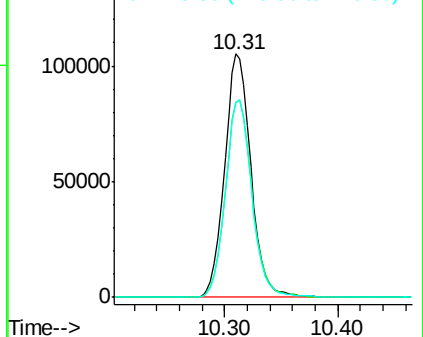
176 81.2 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU025120.D (-2930) (-)

Ion 173.80 (173.50 to 174.50): VU025120.D (-2930) (-)

Ion 175.80 (175.50 to 176.50): VU025120.D (-2930) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU025120.D

Acq: 01 Jul 2018 05:20

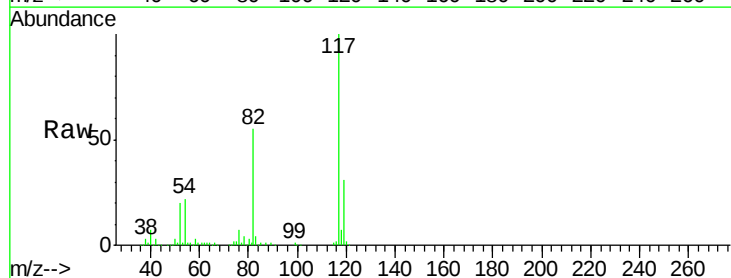
Tgt Ion: 117 Resp: 292630

Ion Ratio Lower Upper

117 100

82 55.4 44.3 66.5

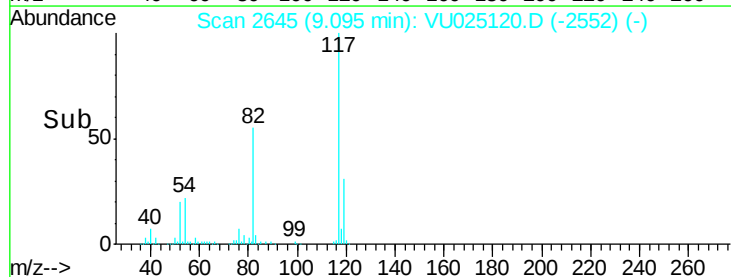
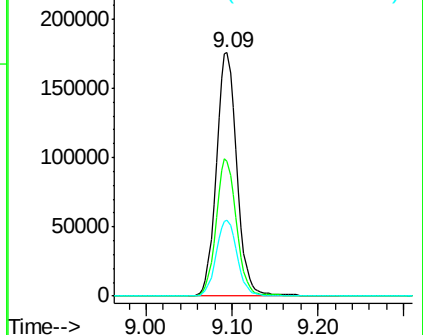
119 31.0 25.4 38.2

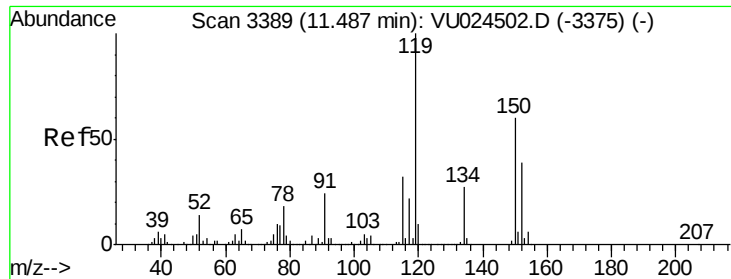


Abundance Ion 116.90 (116.60 to 117.60): VU025120.D (-2552) (-)

Ion 82.00 (81.70 to 82.70): VU025120.D (-2552) (-)

Ion 118.90 (118.60 to 119.60): VU025120.D (-2552) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025120.D

Acq: 01 Jul 2018 05:20

Instrument :

MSVOA_U

ClientSampleId :

GPW-02

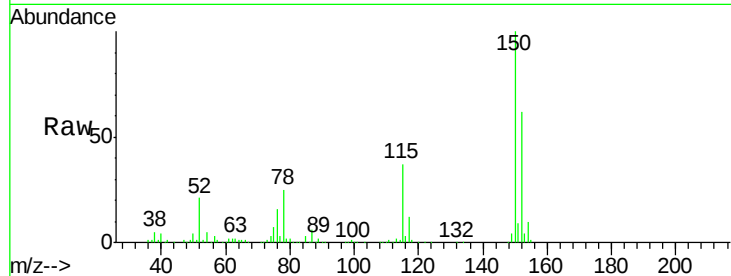
Tgt Ion:152 Resp: 150574

Ion Ratio Lower Upper

152 100

115 58.9 43.0 129.0

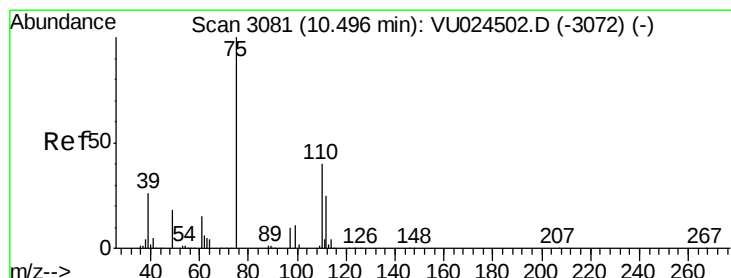
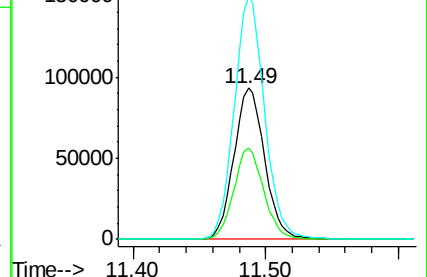
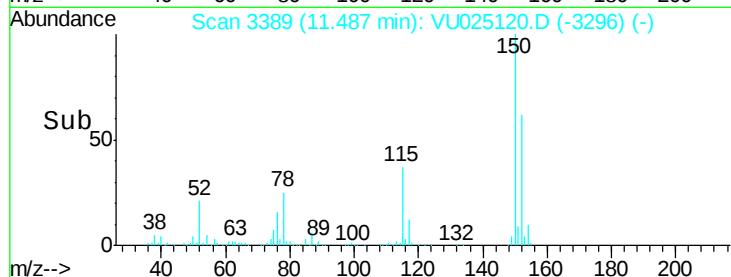
150 158.6 0.0 354.0



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: 26.388 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025120.D

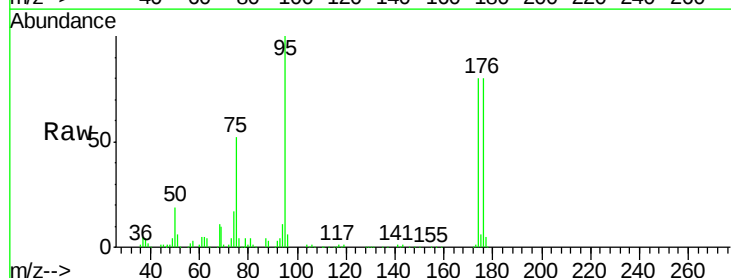
Acq: 01 Jul 2018 05:20

Tgt Ion: 75 Resp: 87479

Ion Ratio Lower Upper

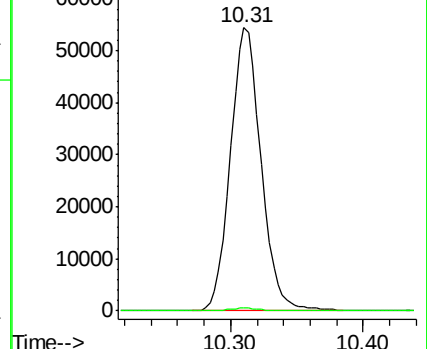
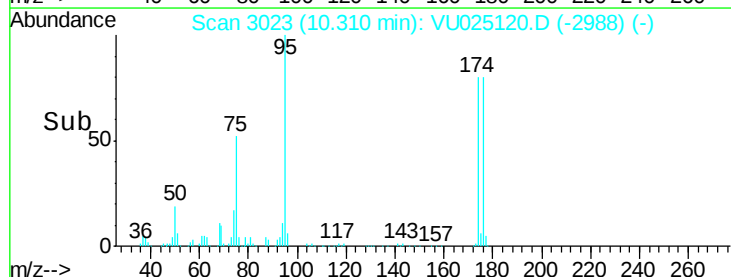
75 100

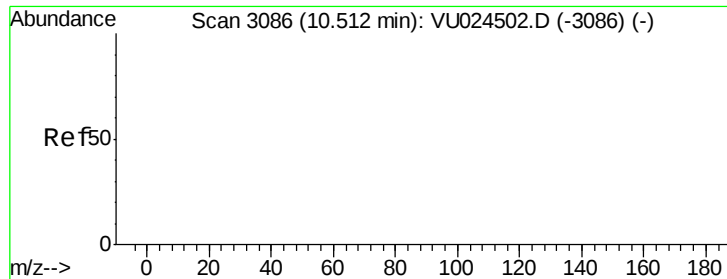
77 0.9 20.9 62.7#



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: 61.073 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025120.D

Acq: 01 Jul 2018 05:20

Instrument :

MSVOA_U

ClientSampleId :

GPW-02

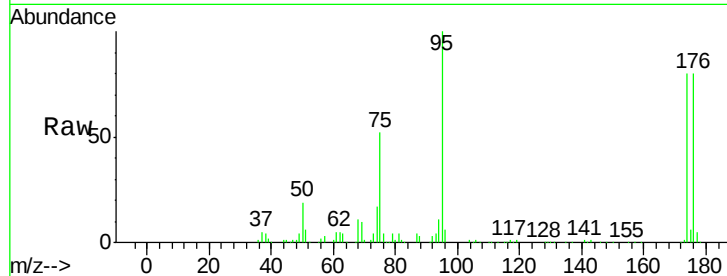
Tgt Ion: 75 Resp: 87479

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

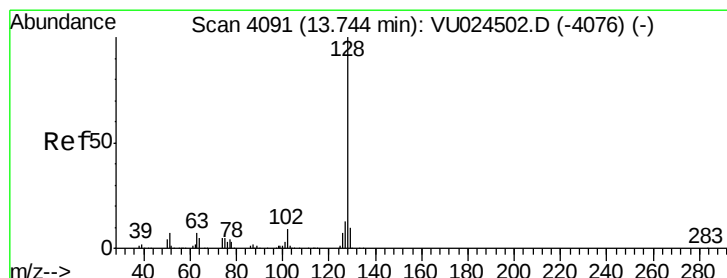
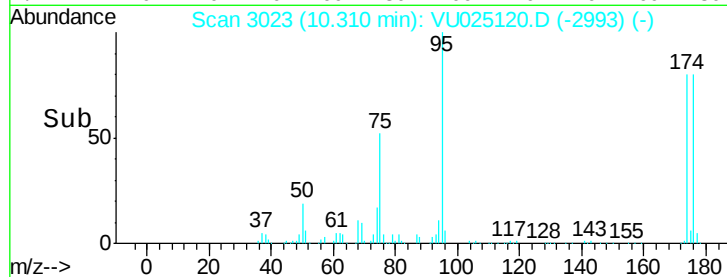
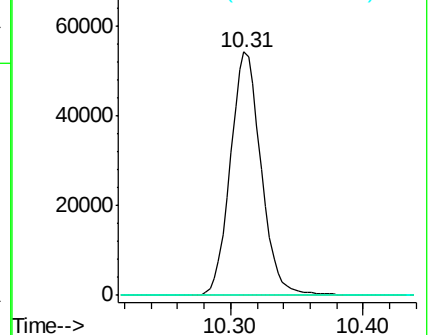
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU025120.D (-2993) (-)

Ion 53.00 (52.70 to 53.70): VU025120.D (-2993) (-)

Ion 88.90 (88.60 to 89.60): VU025120.D (-2993) (-)



#95

Naphthalene

Concen: 0.695 ug/l

RT: 13.77 min Scan# 4098

Delta R.T. 0.02 min

Lab File: VU025120.D

Acq: 01 Jul 2018 05:20

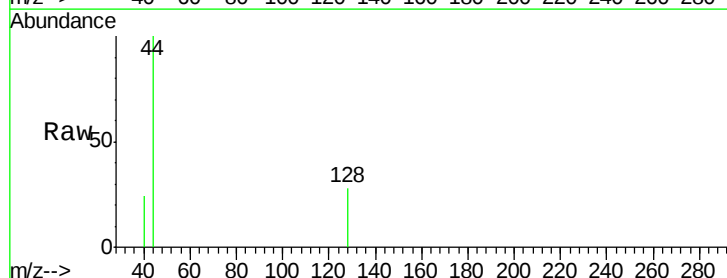
Tgt Ion: 128 Resp: 174

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU025120.D (-3997) (-)

Ion 127.00 (126.70 to 127.70): VU025120.D (-3997) (-)

Ion 129.00 (128.70 to 129.70): VU025120.D (-3997) (-)

