

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092618\
 Data File : VU027201.D
 Acq On : 27 Sep 2018 01:11
 Operator : MD/SY
 Sample : J5048-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-36-SEP18

Quant Time: Sep 27 03:52:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 22 01:31:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	114680	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	185491	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	188753	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	99984	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	105776	45.83	ug/l	0.00
Spiked Amount			Recovery	=	91.66%	
35) Dibromofluoromethane	4.88	113	76151	47.36	ug/l	0.00
Spiked Amount			Recovery	=	94.72%	
50) Toluene-d8	7.57	98	296121	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
62) 4-Bromofluorobenzene	10.31	95	112707	53.60	ug/l	0.00
Spiked Amount			Recovery	=	107.20%	

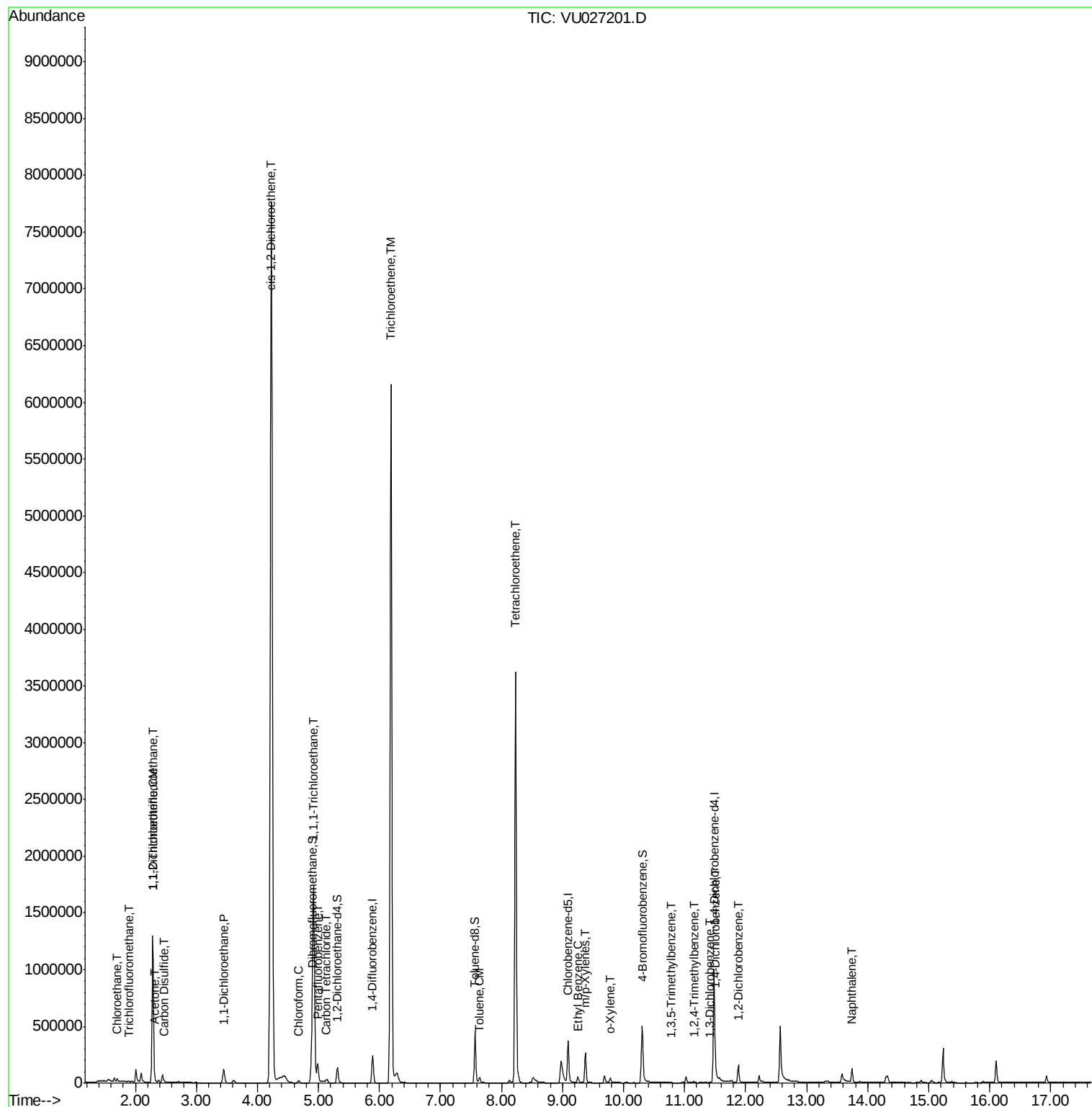
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.70	64	18749	12.177	ug/l	98
7) Trichlorofluoromethane	1.89	101	3246	1.186	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.29	101	198074	117.704	ug/l	99
12) 1,1-Dichloroethene	2.29	96	231918	146.422	ug/l	99
16) Acetone	2.32	43	23877	3.090	ug/l	98
17) Carbon Disulfide	2.48	76	6675	1.294	ug/l	96
24) 1,1-Dichloroethane	3.45	63	131149	34.655	ug/l	99
27) cis-1,2-Dichloroethene	4.23	96	4002260	2095.665	ug/l	90
30) Chloroform	4.67	83	18962	5.398	ug/l	98
32) 1,1,1-Trichloroethane	4.92	97	1323969	472.043	ug/l	98
38) Carbon Tetrachloride	5.14	117	18636	7.911	ug/l	95
44) Trichloroethene	6.19	130	1978050	1234.616	ug/l	99
52) Toluene	7.64	92	17739	4.112	ug/l	97
64) Tetrachloroethene	8.23	164	795583	546.990	ug/l	98
67) Ethyl Benzene	9.25	91	37719	4.583	ug/l	100
68) m/p-Xylenes	9.37	106	72179	22.832	ug/l	98
69) o-Xylene	9.78	106	10467	3.590	ug/l	98
80) 1,3,5-Trimethylbenzene	10.77	105	1811	0.288	ug/l	98
84) 1,2,4-Trimethylbenzene	11.15	105	5007	0.784	ug/l	95
87) 1,3-Dichlorobenzene	11.42	146	1004	0.290	ug/l	91
88) 1,4-Dichlorobenzene	11.51	146	8017	2.127	ug/l	86
91) 1,2-Dichlorobenzene	11.88	146	56146	15.282	ug/l	99
95) Naphthalene	13.74	128	85203	11.634	ug/l	99

(#) = 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# 1186

Delta R.T. 0.00 min

Lab File: VU027201.D

Acq: 27 Sep 2018 01:11

Instrument :

MSVOA_U

ClientSampleId :

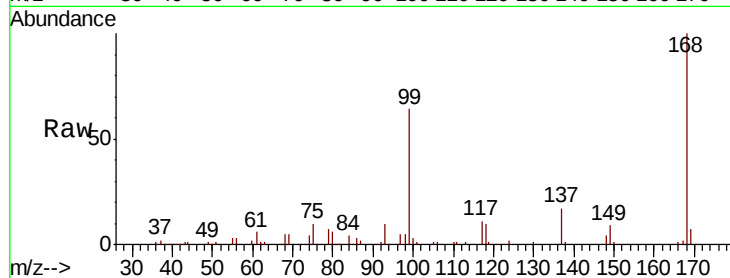
MW-36-SEP18

Tot Ion:168 Resp: 114680

Ion Ratio Lower Upper

168 100

99 58.8 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

400000

300000

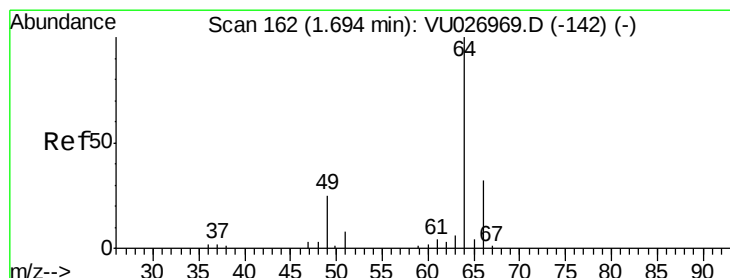
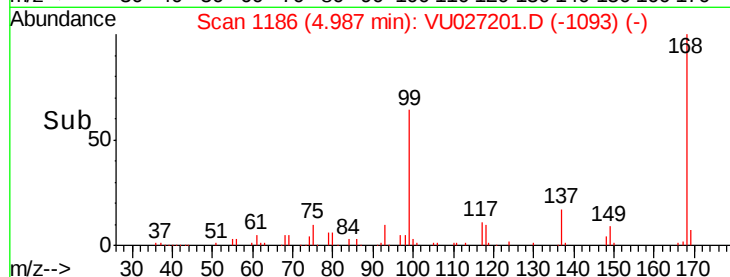
200000

100000

0

4.90 4.95 5.00 5.05

Time-->



#6

Chloroethane

Concen: 12.177 ug/l

RT: 1.70 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU027201.D

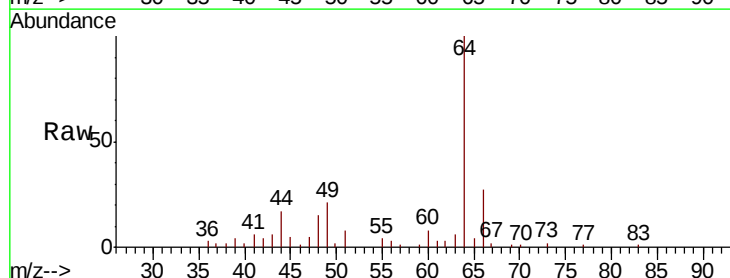
Acq: 27 Sep 2018 01:11

Tgt Ion: 64 Resp: 18749

Ion Ratio Lower Upper

64 100

66 30.3 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VU026969.D (-142) (-)

Ion 65.90 (65.60 to 66.60): VU026969.D (-142) (-)

15000

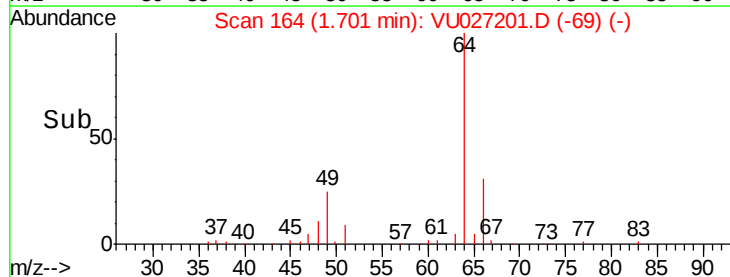
10000

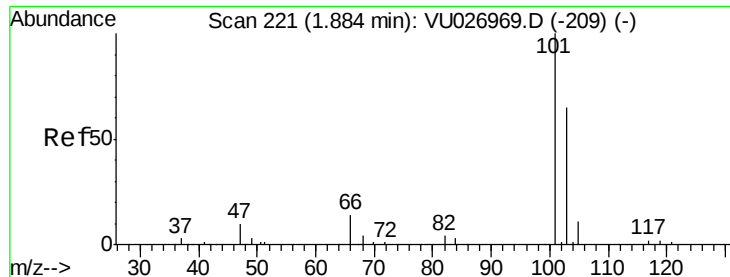
5000

0

1.65 1.70 1.75 1.80

Time-->



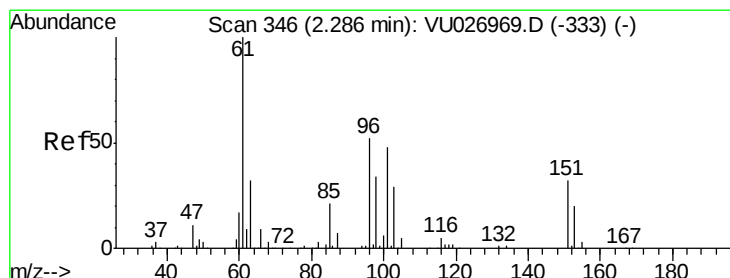
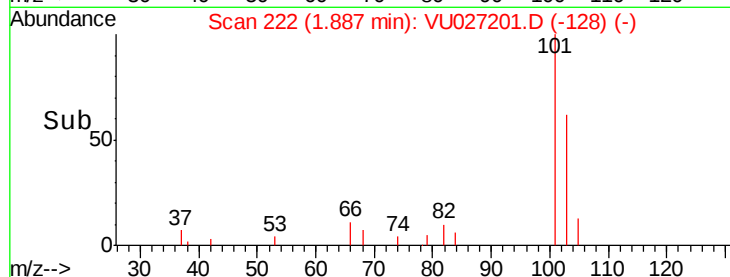
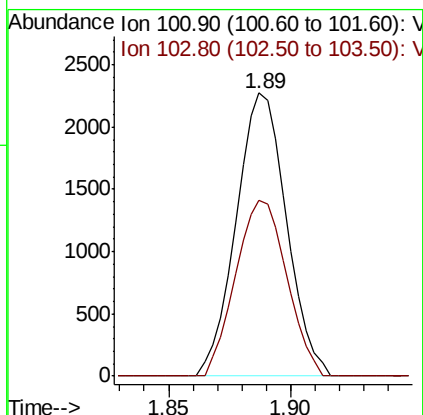
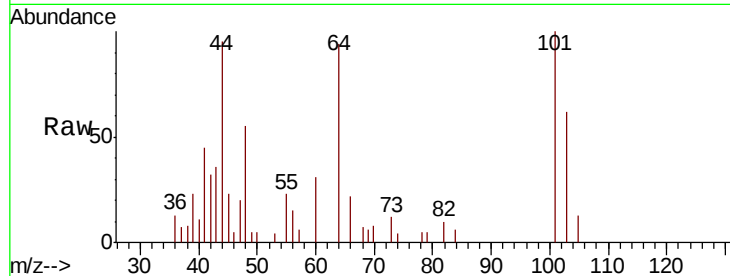


#7

Trichlorofluoromethane
 Concen: 1.186 ug/l
 RT: 1.89 min Scan# 222
 Delta R.T. 0.00 min
 Lab File: VU027201.D
 Acq: 27 Sep 2018 01:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-36-SEP18

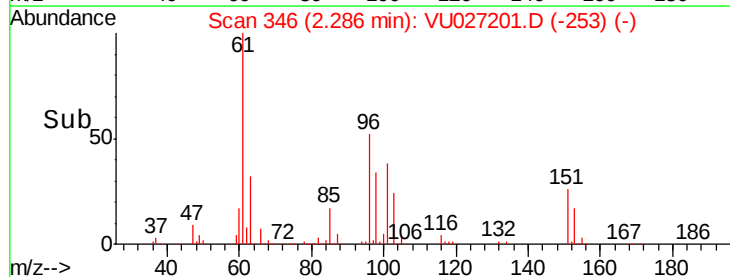
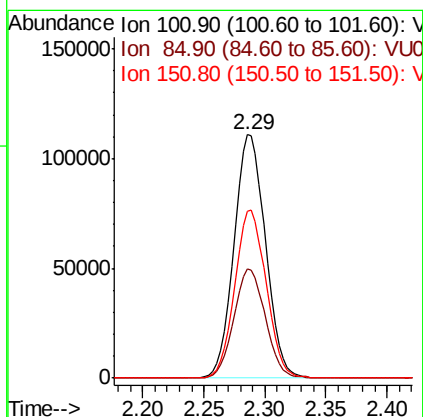
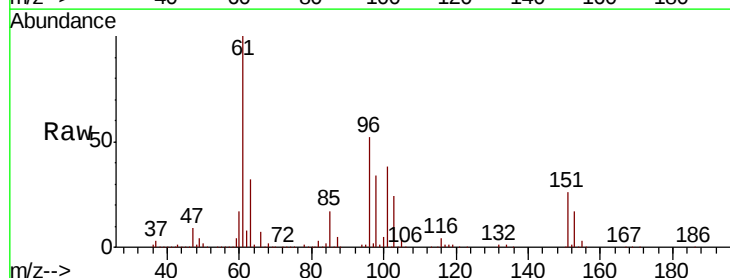
Tot Ion:101 Resp: 3246
 Ion Ratio Lower Upper
 101 100
 103 62.2 52.2 78.2

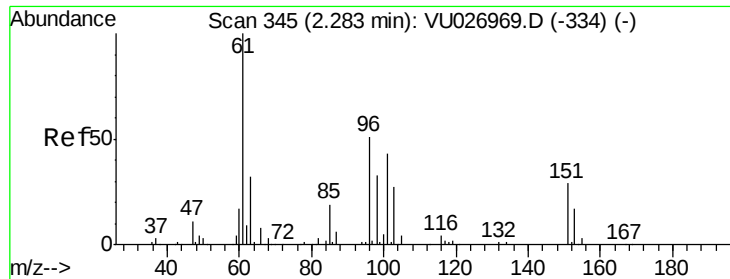


#9

1,1,2-Trichlorotrifluoroethane
 Concen: 117.704 ug/l
 RT: 2.29 min Scan# 346
 Delta R.T. 0.00 min
 Lab File: VU027201.D
 Acq: 27 Sep 2018 01:11

Tgt Ion:101 Resp: 198074
 Ion Ratio Lower Upper
 101 100
 85 45.2 36.2 54.2
 151 68.9 54.5 81.7

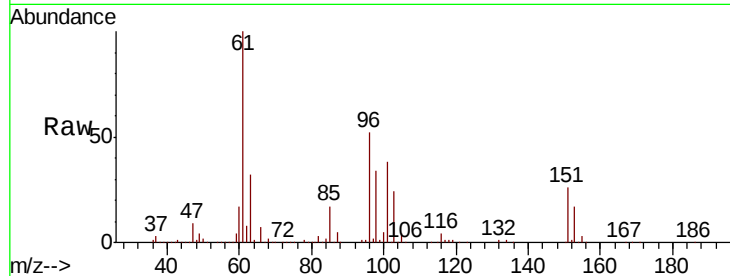




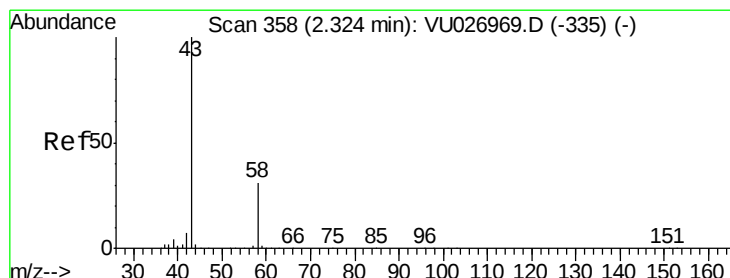
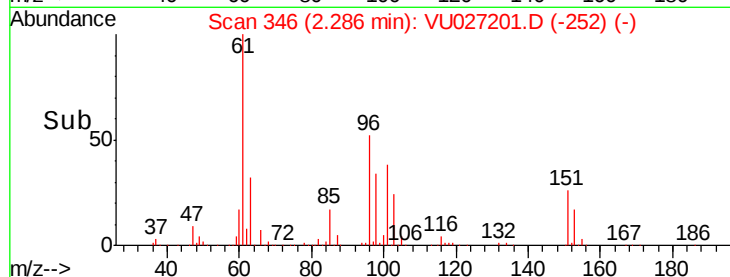
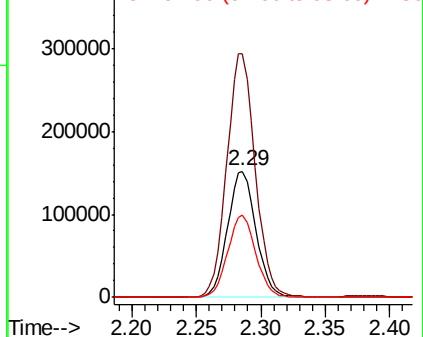
#12
 1,1-Dichloroethene
 Concen: 146.422 ug/l
 RT: 2.29 min Scan# 346
 Delta R.T. 0.00 min
 Lab File: VU027201.D
 Acq: 27 Sep 2018 01:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-36-SEP18

Tot Ion	96	Resp	231918
Ion	Ratio	Lower	Upper
96	100		
61	193.1	156.1	234.1
98	64.8	51.4	77.0

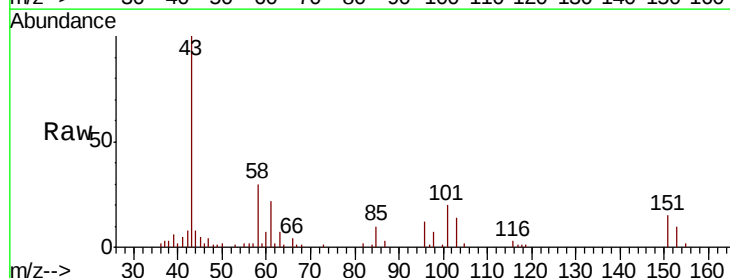


Abundance Ion 95.90 (95.60 to 96.60): VU0
 Ion 60.90 (60.60 to 61.60): VU0
 Ion 97.90 (97.60 to 98.60): VU0

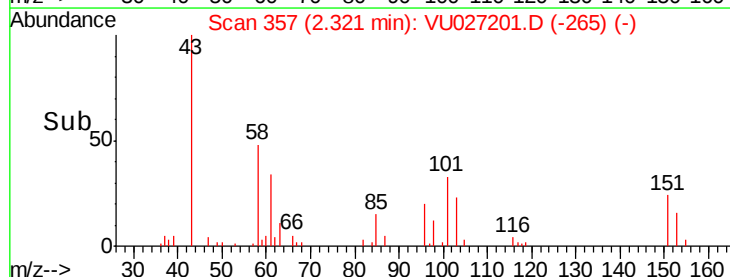
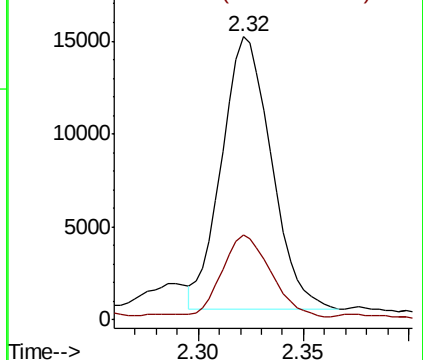


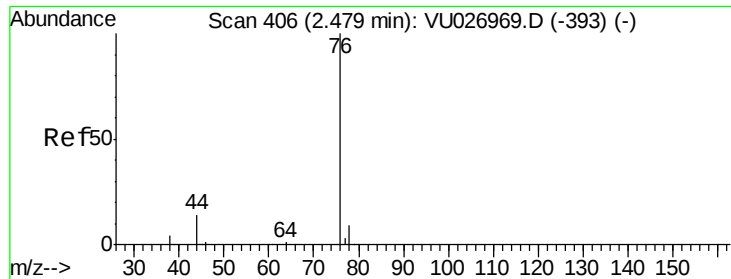
#16
 Acetone
 Concen: 3.090 ug/l
 RT: 2.32 min Scan# 357
 Delta R.T. -0.00 min
 Lab File: VU027201.D
 Acq: 27 Sep 2018 01:11

Tgt Ion	43	Resp	23877
Ion	Ratio	Lower	Upper
43	100		
58	29.5	24.6	36.8



Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 58.00 (57.70 to 58.70): VU0

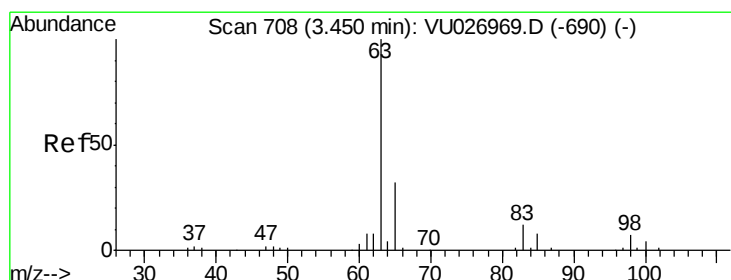
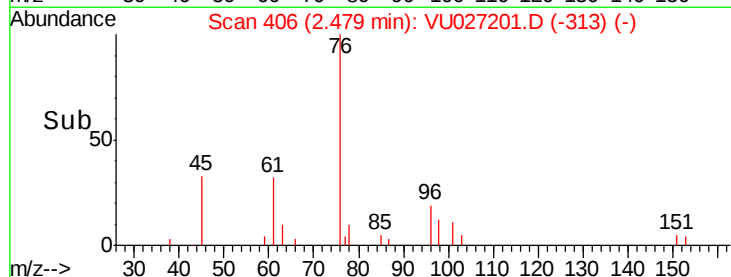
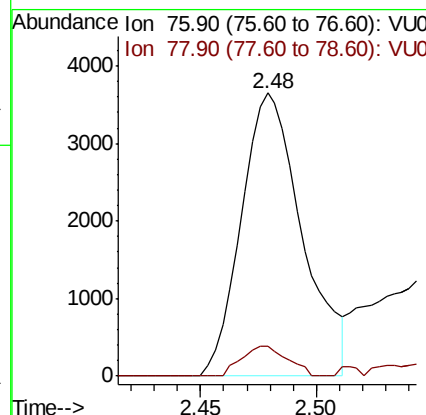
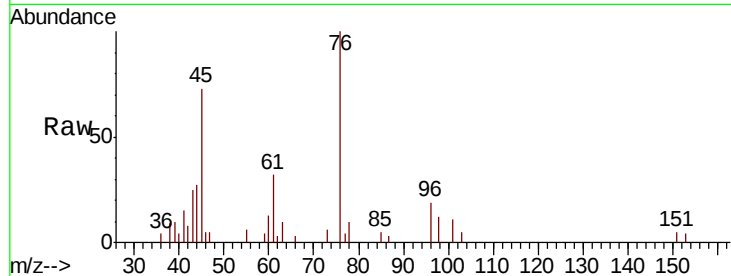




#17
Carbon Disulfide
Concen: 1.294 ug/l
RT: 2.48 min Scan# 406
Delta R.T. 0.00 min
Lab File: VU027201.D
Acq: 27 Sep 2018 01:11

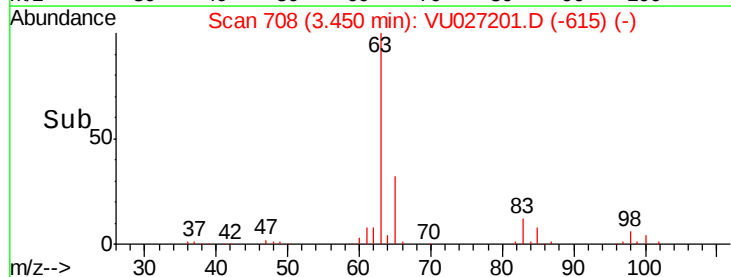
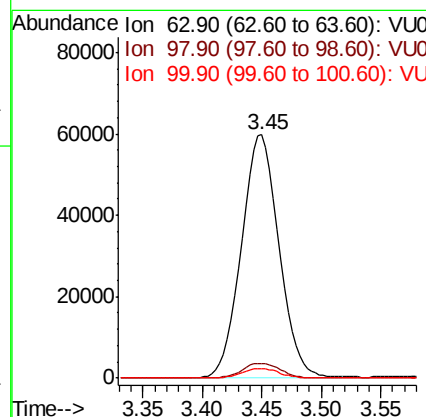
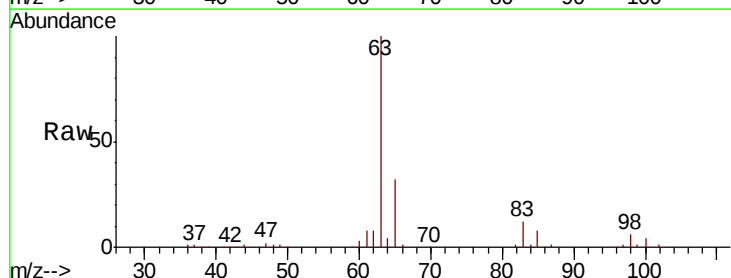
Instrument :
MSVOA_U
ClientSampleId :
MW-36-SEP18

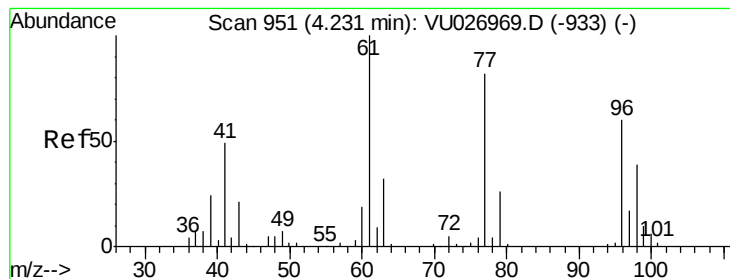
Tot Ion: 76 Resp: 6675
Ion Ratio Lower Upper
76 100
78 10.4 7.1 10.7



#24
1,1-Dichloroethane
Concen: 34.655 ug/l
RT: 3.45 min Scan# 708
Delta R.T. 0.00 min
Lab File: VU027201.D
Acq: 27 Sep 2018 01:11

Tgt Ion: 63 Resp: 131149
Ion Ratio Lower Upper
63 100
98 5.8 3.3 9.8
100 3.9 2.0 5.8



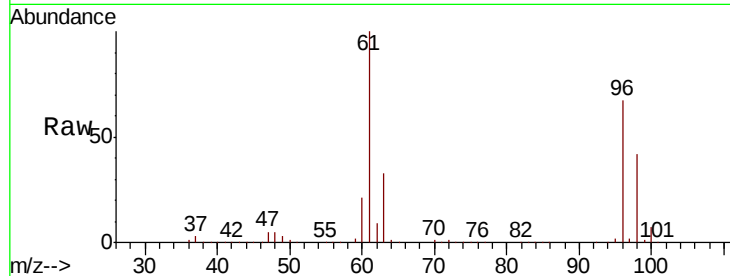


#27

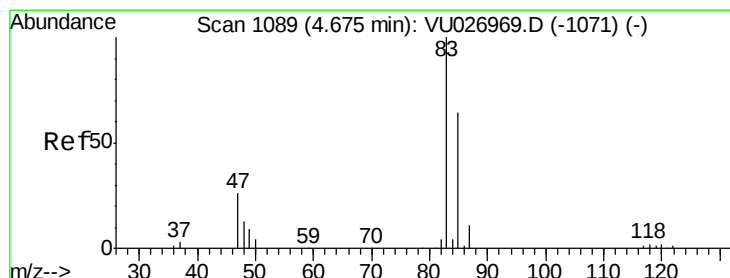
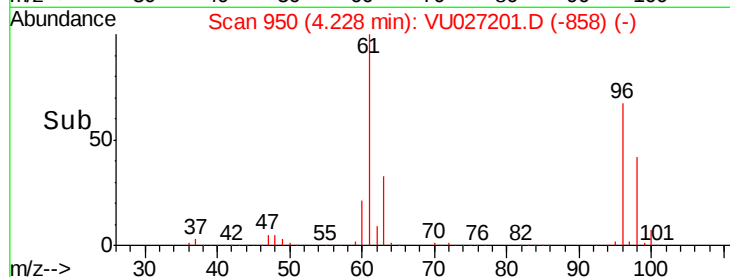
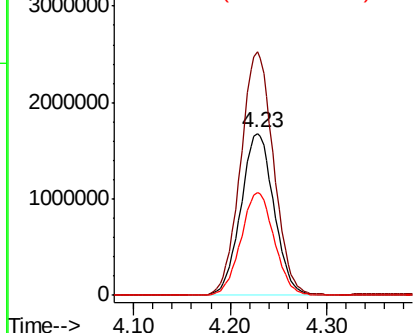
cis-1,2-Dichloroethene
 Concen: 2095.665 ug/l
 RT: 4.23 min Scan# 950
 Delta R.T. -0.00 min
 Lab File: VU027201.D
 Acq: 27 Sep 2018 01:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-36-SEP18

Tot Ion: 96 Resp: 4002260
 Ion Ratio Lower Upper
 96 100
 61 149.8 0.0 337.2
 98 63.8 0.0 127.6



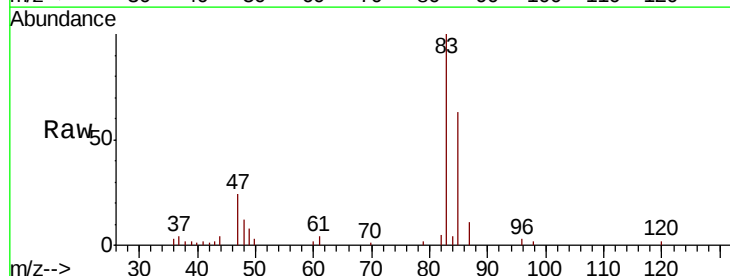
Abundance Ion 95.90 (95.60 to 96.60): VU0
 Ion 60.90 (60.60 to 61.60): VU0
 Ion 97.90 (97.60 to 98.60): VU0



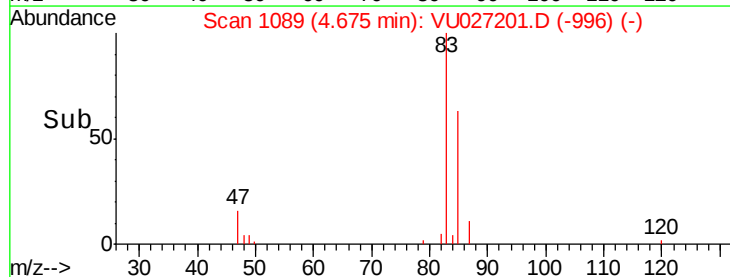
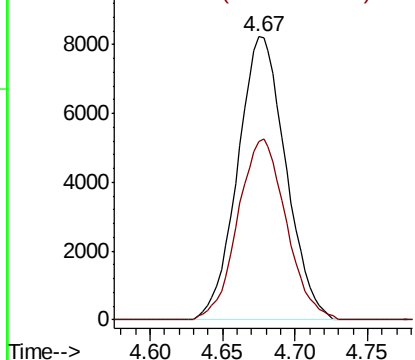
#30

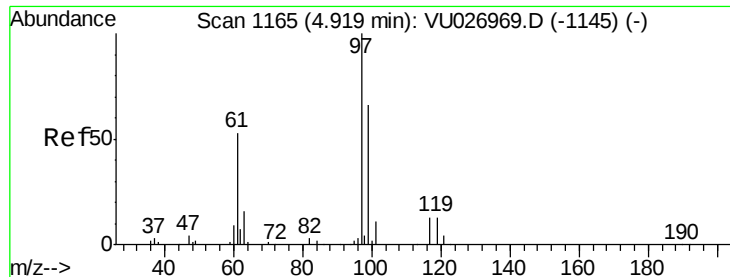
Chloroform
 Concen: 5.398 ug/l
 RT: 4.67 min Scan# 1089
 Delta R.T. 0.00 min
 Lab File: VU027201.D
 Acq: 27 Sep 2018 01:11

Tgt Ion: 83 Resp: 18962
 Ion Ratio Lower Upper
 83 100
 85 63.2 51.5 77.3



Abundance Ion 82.90 (82.60 to 83.60): VU0
 Ion 84.90 (84.60 to 85.60): VU0



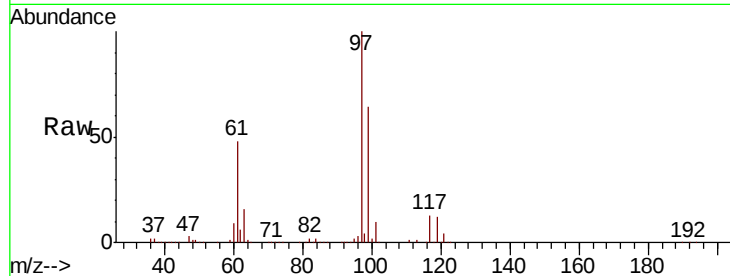


#32
 1,1,1-Trichloroethane
 Concen: 472.043 ug/l
 RT: 4.92 min Scan# 1165
 Delta R.T. 0.00 min
 Lab File: VU027201.D
 Acq: 27 Sep 2018 01:11

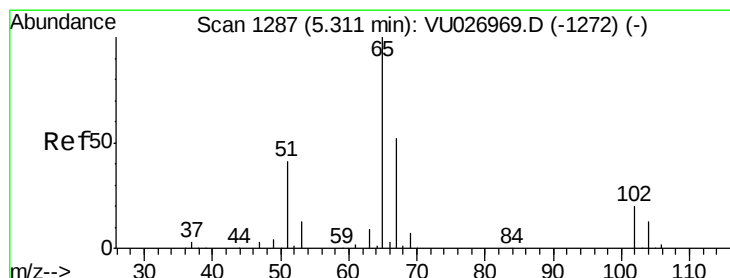
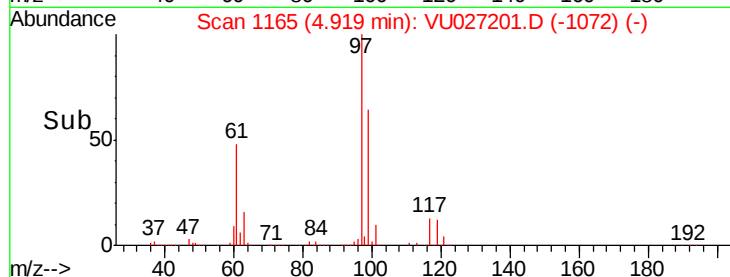
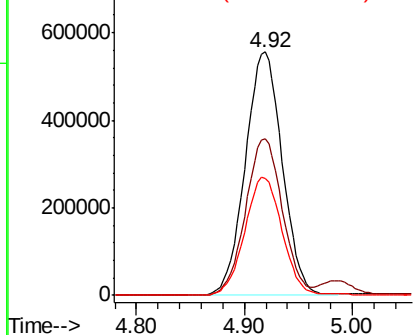
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-36-SEP18

Tot Ion: 97 Resp: 1323969

Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.8	77.6
61	49.2	41.1	61.7



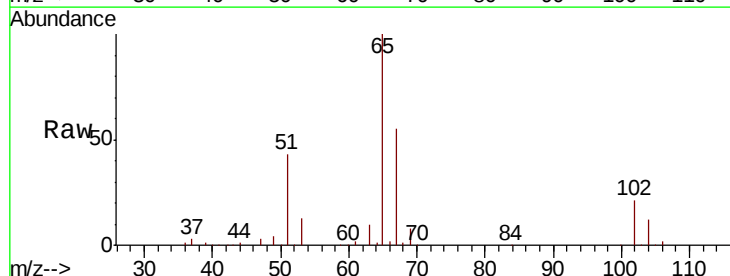
Abundance Ion 96.90 (96.60 to 97.60): VU0
 Ion 98.90 (98.60 to 99.60): VU0
 Ion 60.90 (60.60 to 61.60): VU0



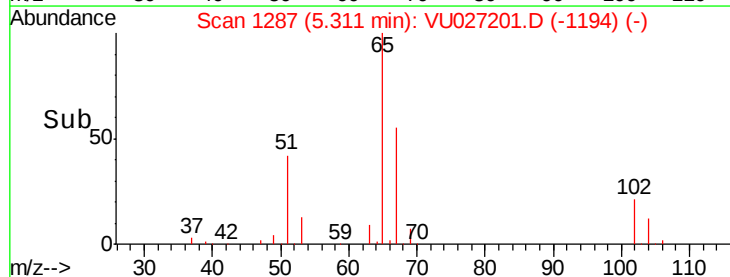
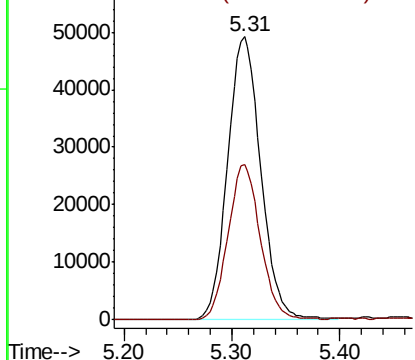
#33
 1,2-Dichloroethane-d4
 Concen: 45.828 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027201.D
 Acq: 27 Sep 2018 01:11

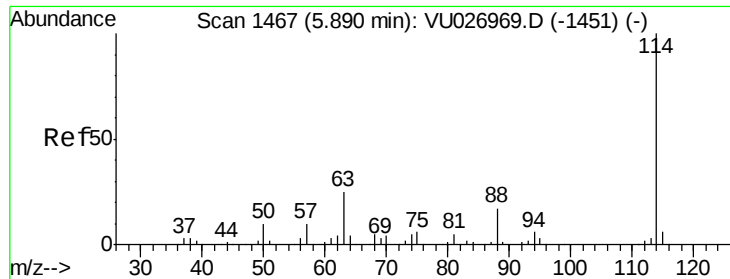
Tgt Ion: 65 Resp: 105776

Ion	Ratio	Lower	Upper
65	100		
67	53.3	0.0	105.6



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# 1466

Delta R.T. -0.00 min

Lab File: VU027201.D

Acq: 27 Sep 2018 01:11

Instrument :

MSVOA_U

ClientSampleId :

MW-36-SEP18

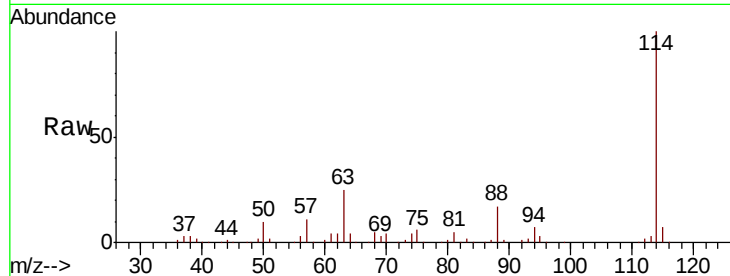
Tot Ion:114 Resp: 185491

Ion Ratio Lower Upper

114 100

63 24.6 0.0 49.2

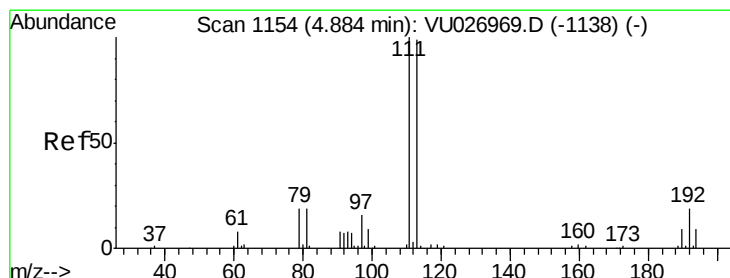
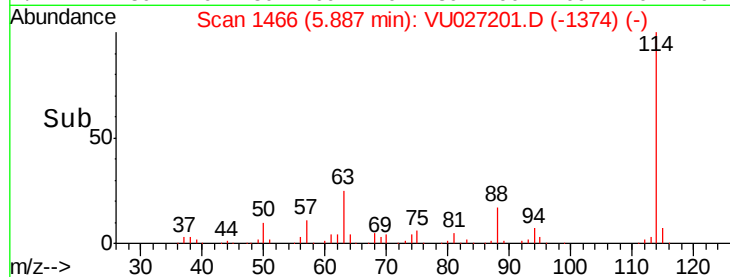
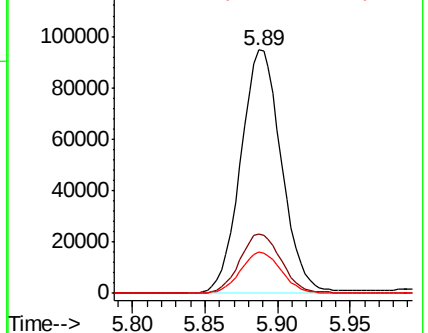
88 16.9 0.0 33.8



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: 47.362 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU027201.D

Acq: 27 Sep 2018 01:11

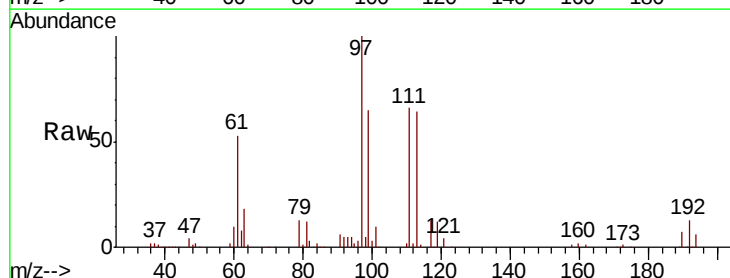
Tgt Ion:113 Resp: 76151

Ion Ratio Lower Upper

113 100

111 103.8 82.2 123.4

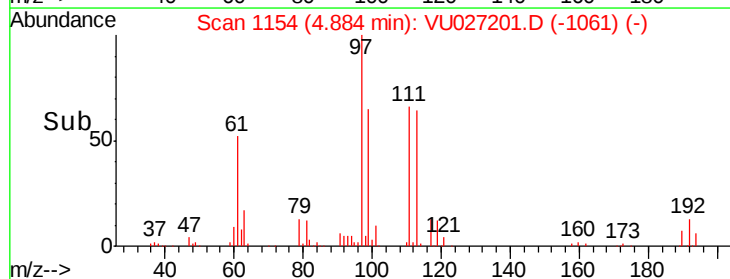
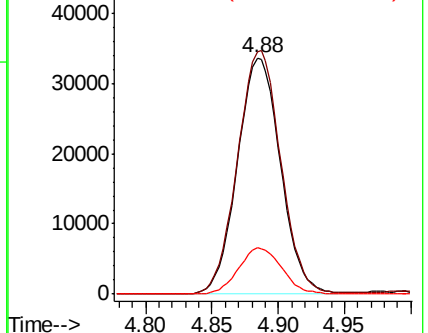
192 19.6 15.2 22.8

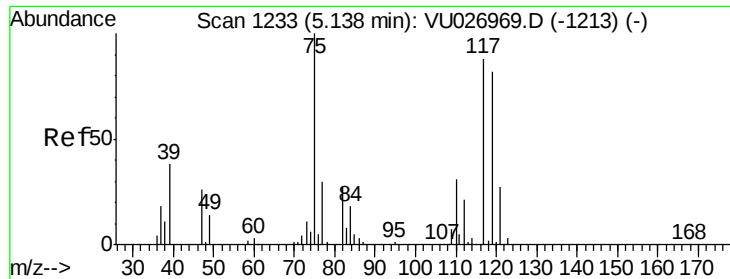


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 7.911 ug/l

RT: 5.14 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU027201.D

Acq: 27 Sep 2018 01:11

Instrument :

MSVOA_U

ClientSampleId :

MW-36-SEP18

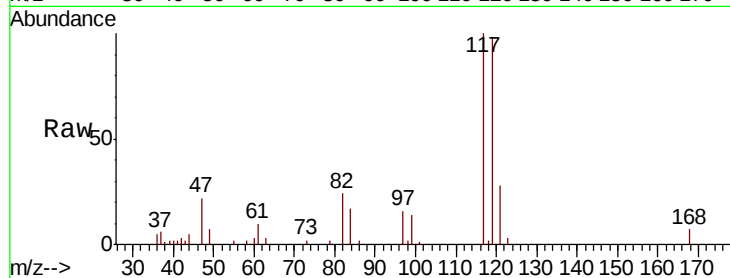
Tot Ion:117 Resp: 18636

Ion Ratio Lower Upper

117 100

119 98.5 74.4 111.6

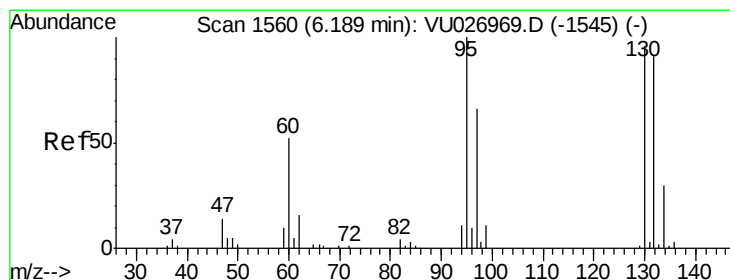
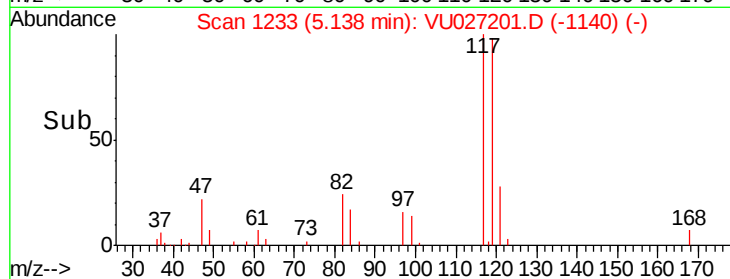
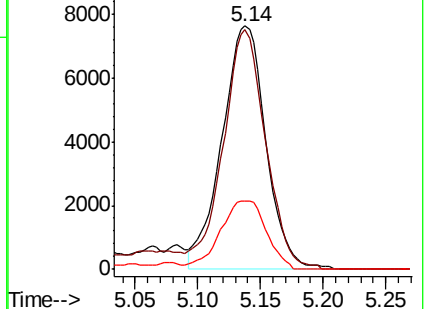
121 27.9 24.2 36.4



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



#44

Trichloroethene

Concen: 1234.616 ug/l

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU027201.D

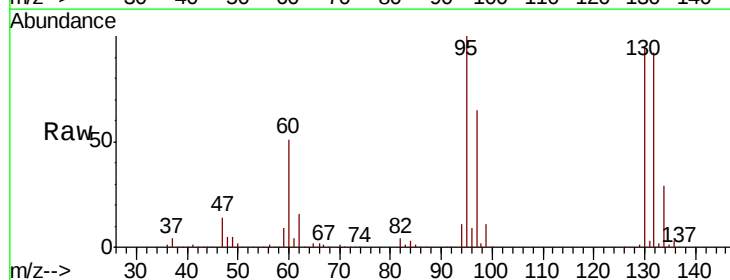
Acq: 27 Sep 2018 01:11

Tgt Ion:130 Resp: 1978050

Ion Ratio Lower Upper

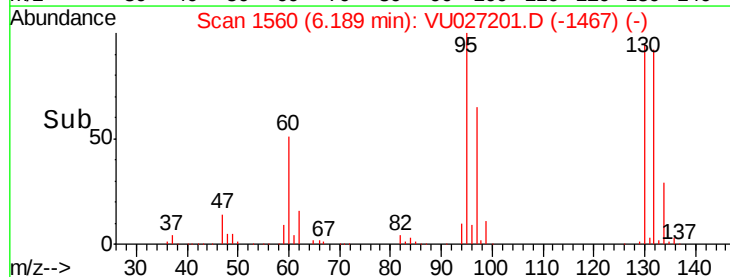
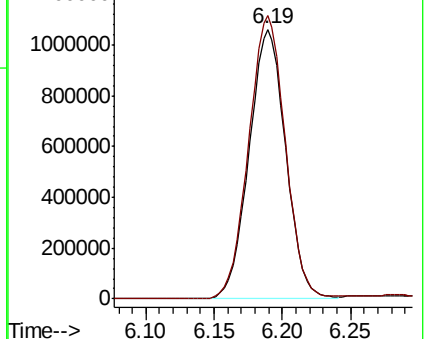
130 100

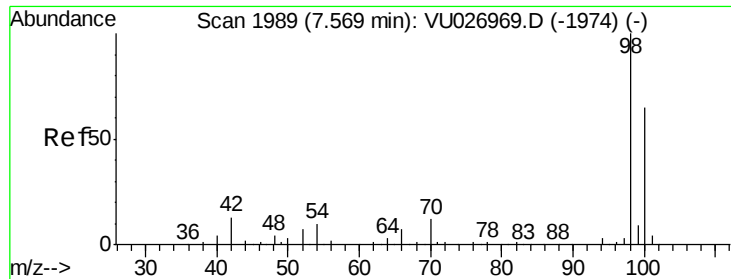
95 105.1 0.0 208.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

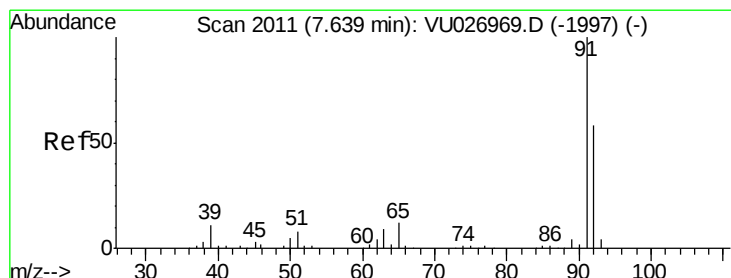
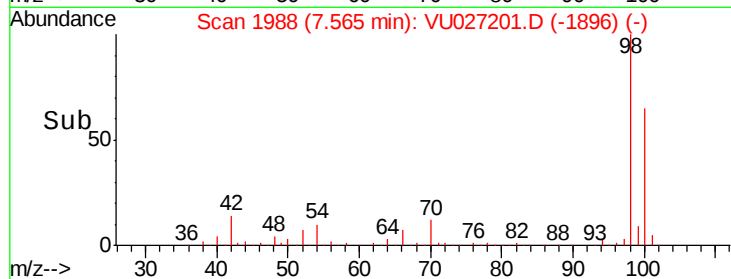
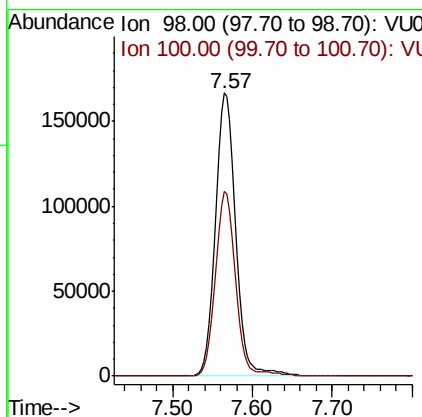
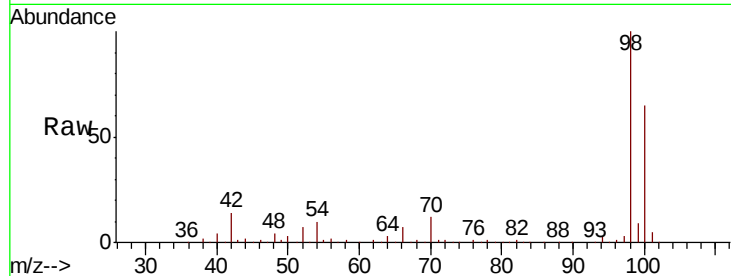




#50
Toluene-d8
Concen: 48.326 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU027201.D
Acq: 27 Sep 2018 01:11

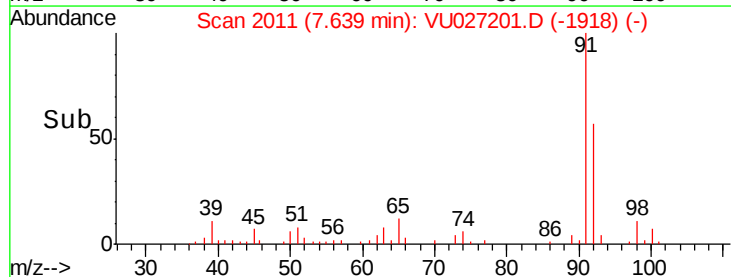
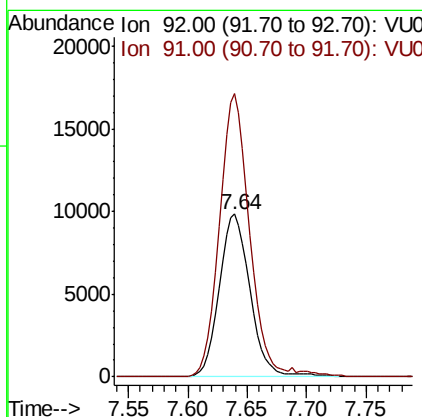
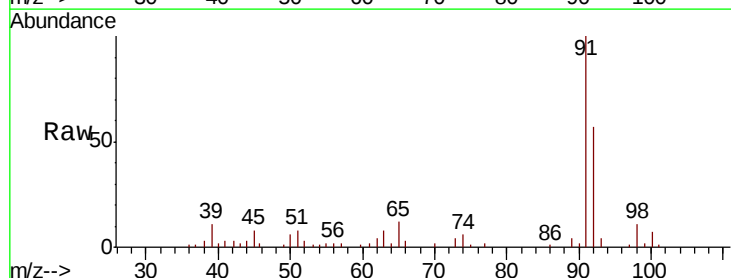
Instrument :
MSVOA_U
ClientSampleId :
MW-36-SEP18

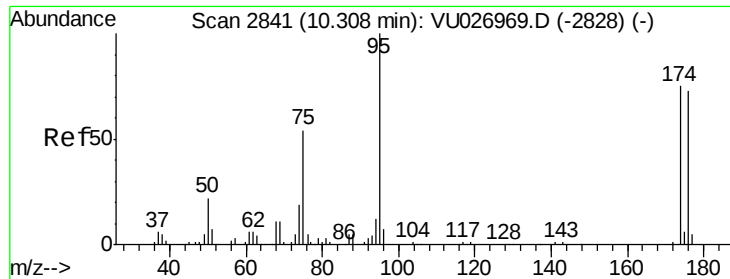
Tot Ion: 98 Resp: 296121
Ion Ratio Lower Upper
98 100
100 63.4 52.1 78.1



#52
Toluene
Concen: 4.112 ug/l
RT: 7.64 min Scan# 2011
Delta R.T. 0.00 min
Lab File: VU027201.D
Acq: 27 Sep 2018 01:11

Tgt Ion: 92 Resp: 17739
Ion Ratio Lower Upper
92 100
91 166.6 136.4 204.6

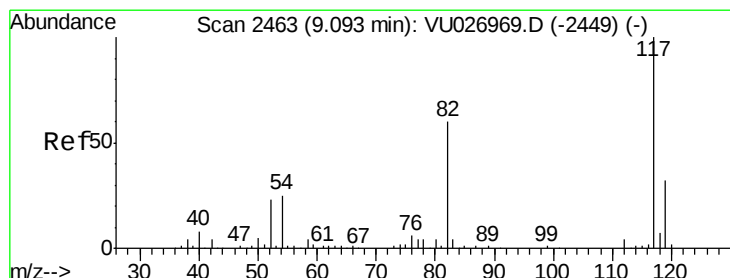
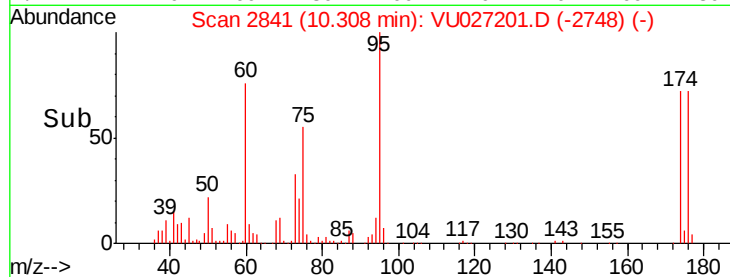
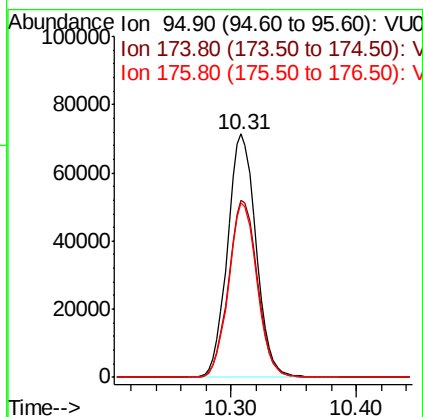
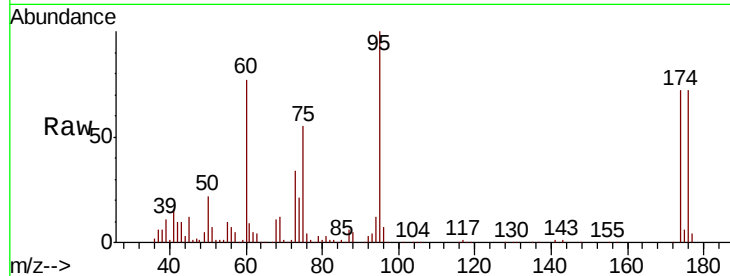




#62
 4-Bromofluorobenzene
 Concen: 53.605 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027201.D
 Acq: 27 Sep 2018 01:11

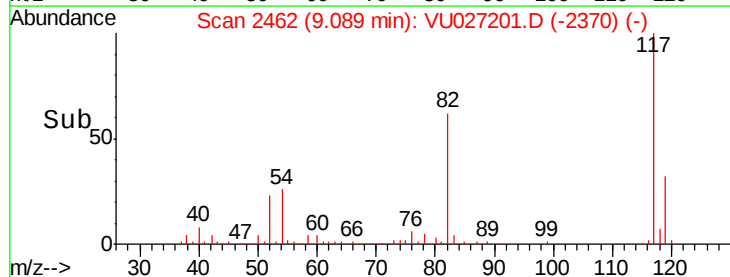
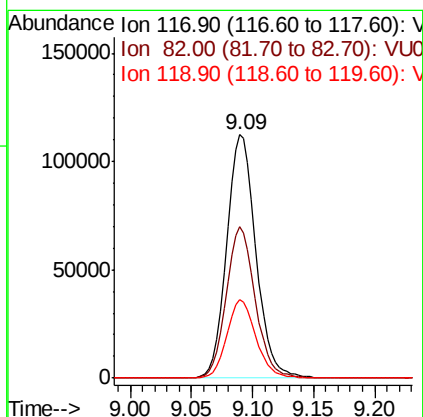
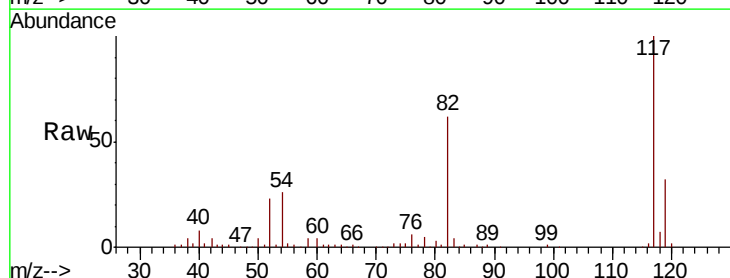
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-36-SEP18

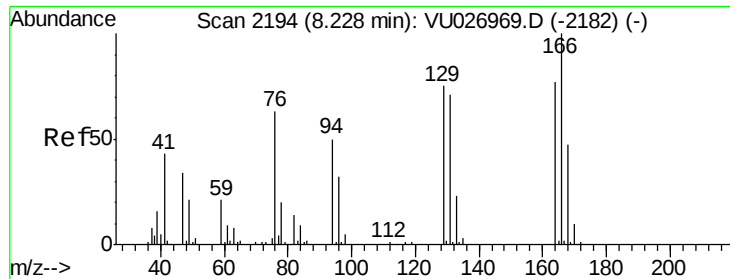
Tot Ion: 95 Resp: 112707
 Ion Ratio Lower Upper
 95 100
 174 73.8 0.0 150.2
 176 71.2 0.0 145.2



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2462
 Delta R.T. -0.00 min
 Lab File: VU027201.D
 Acq: 27 Sep 2018 01:11

Tgt Ion: 117 Resp: 188753
 Ion Ratio Lower Upper
 117 100
 82 62.2 48.0 72.0
 119 32.1 25.8 38.8





#64

Tetrachloroethene

Concen: 546.990 ug/l

RT: 8.23 min Scan# 2195

Delta R.T. 0.00 min

Lab File: VU027201.D

Acq: 27 Sep 2018 01:11

Instrument :
MSVOA_U
ClientSampleId :
MW-36-SEP18

Tot Ion:164 Resp: 795583

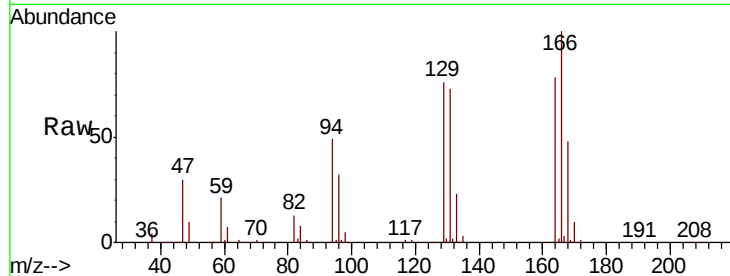
Ion Ratio Lower Upper

164 100

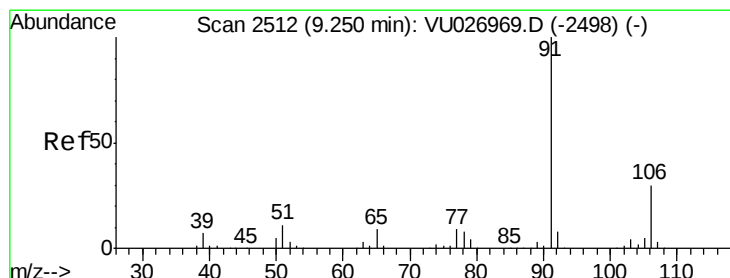
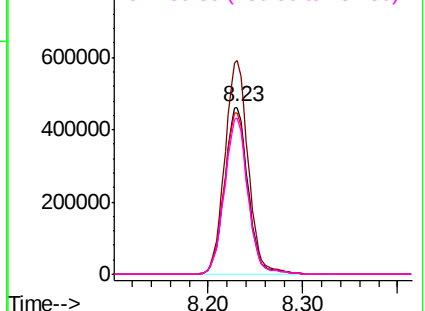
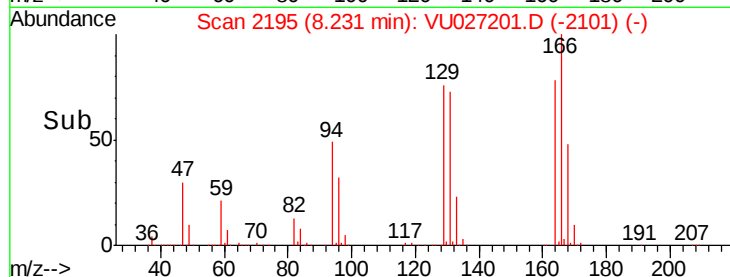
166 128.0 104.4 156.6

129 97.0 78.7 118.1

131 93.3 73.9 110.9



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V



#67

Ethyl Benzene

Concen: 4.583 ug/l

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU027201.D

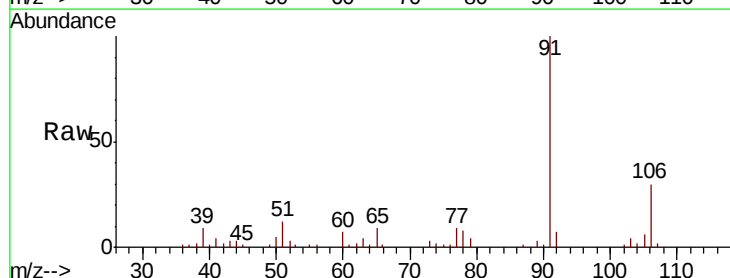
Acq: 27 Sep 2018 01:11

Tgt Ion: 91 Resp: 37719

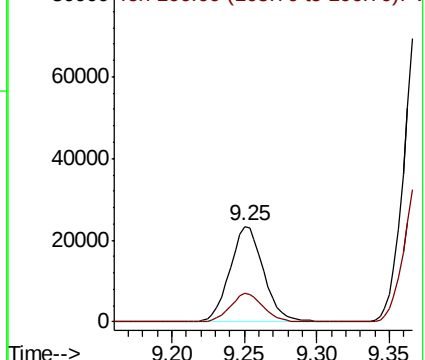
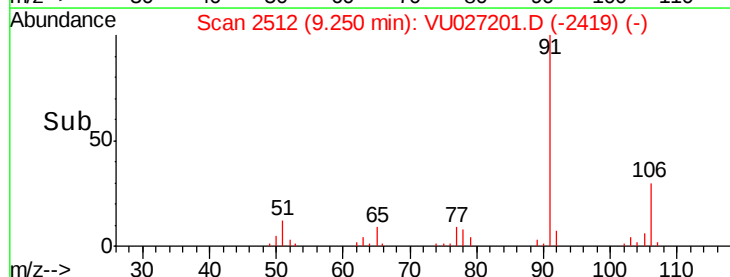
Ion Ratio Lower Upper

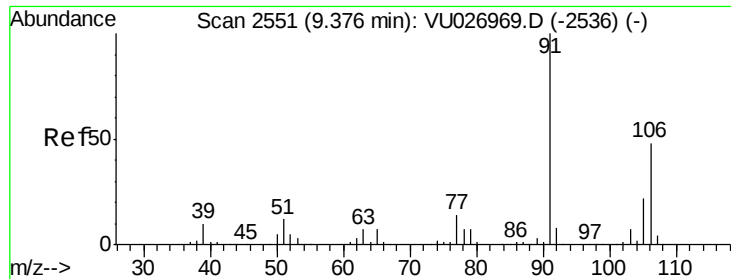
91 100

106 29.6 23.8 35.8



Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 106.00 (105.70 to 106.70): V

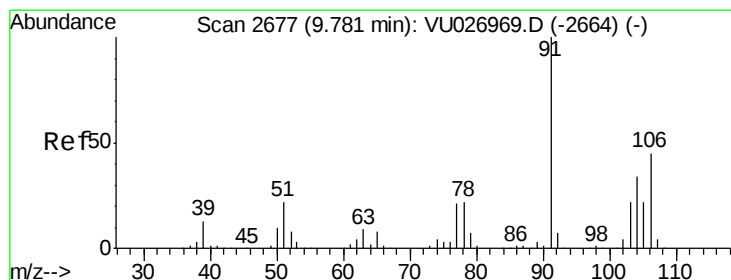
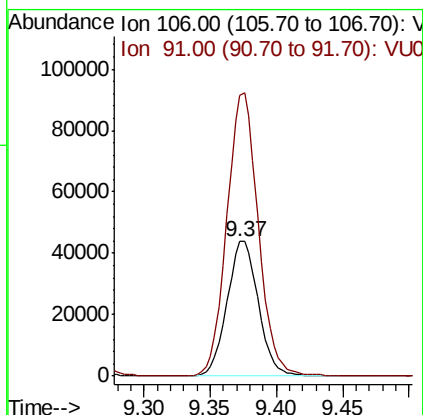
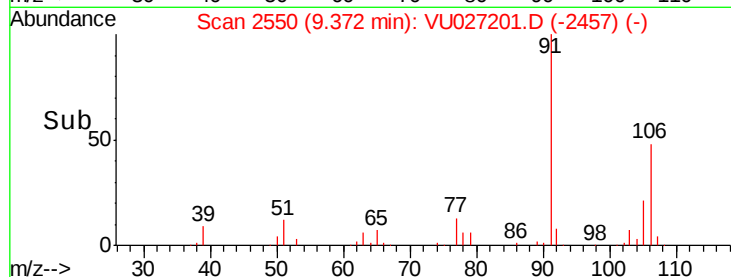
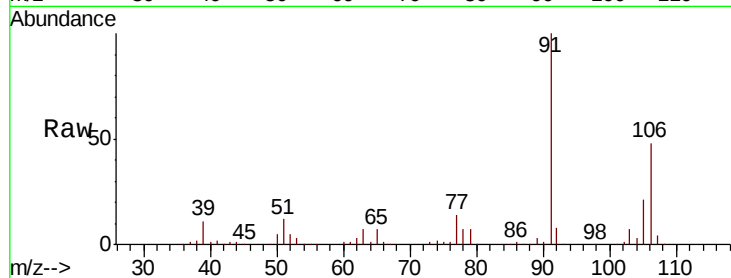




#68
m/p-Xylenes
Concen: 22.832 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VU027201.D
Acq: 27 Sep 2018 01:11

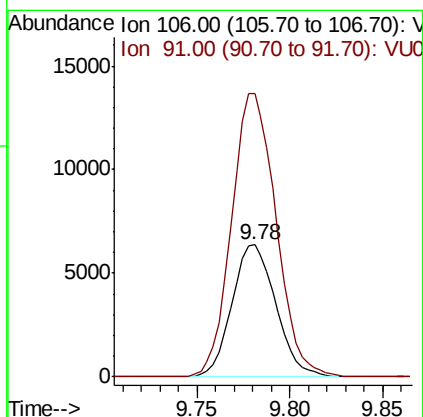
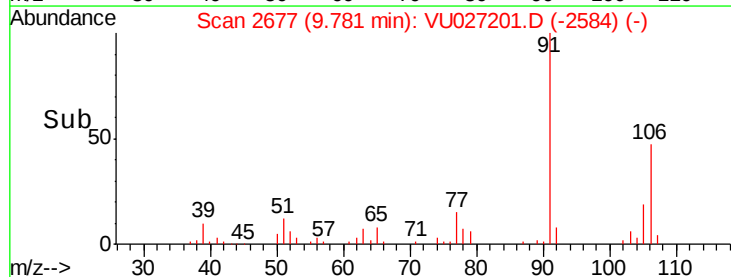
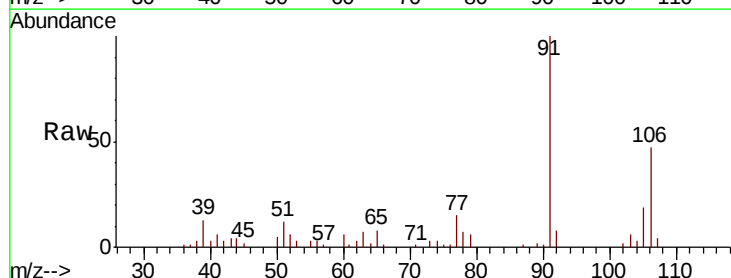
Instrument :
MSVOA_U
ClientSampleId :
MW-36-SEP18

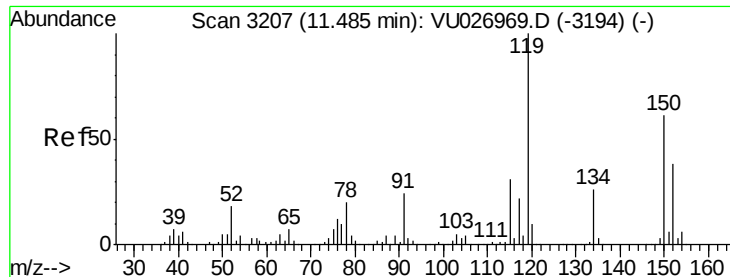
Tot Ion:106 Resp: 72179
Ion Ratio Lower Upper
106 100
91 210.6 166.5 249.7



#69
o-Xylene
Concen: 3.590 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU027201.D
Acq: 27 Sep 2018 01:11

Tgt Ion:106 Resp: 10467
Ion Ratio Lower Upper
106 100
91 216.9 110.2 330.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027201.D

Acq: 27 Sep 2018 01:11

Instrument :

MSVOA_U

ClientSampleId :

MW-36-SEP18

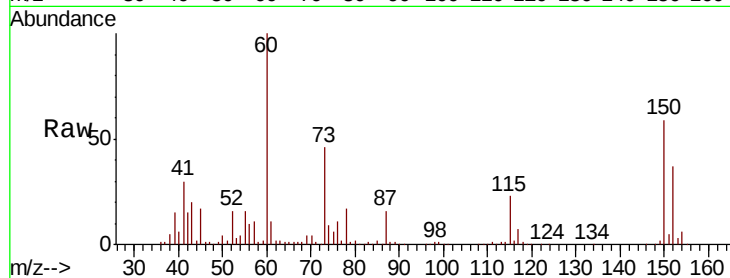
Tot Ion:152 Resp: 99984

Ion Ratio Lower Upper

152 100

115 61.1 44.9 134.5

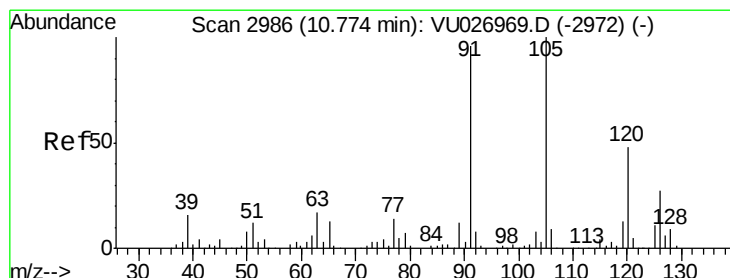
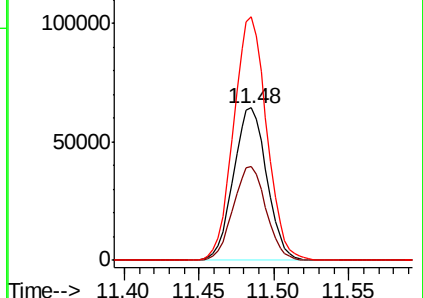
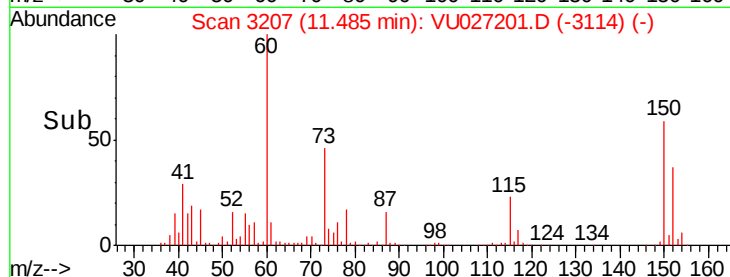
150 158.8 0.0 355.8



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



#80

1,3,5-Trimethylbenzene

Concen: 0.288 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU027201.D

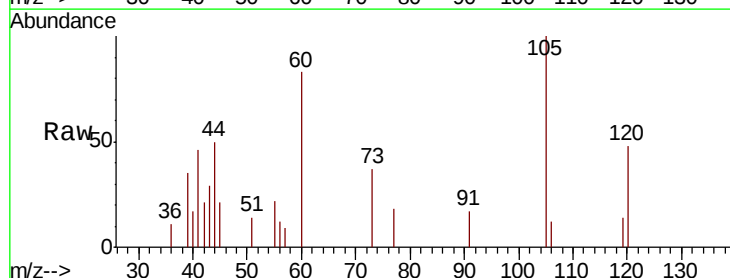
Acq: 27 Sep 2018 01:11

Tgt Ion:105 Resp: 1811

Ion Ratio Lower Upper

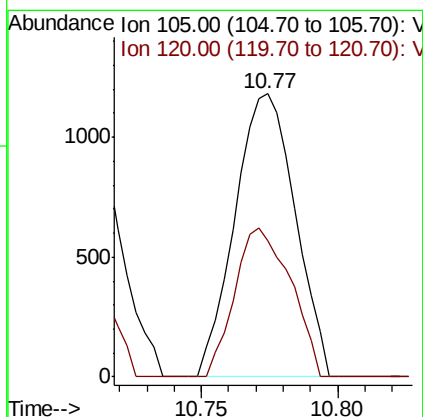
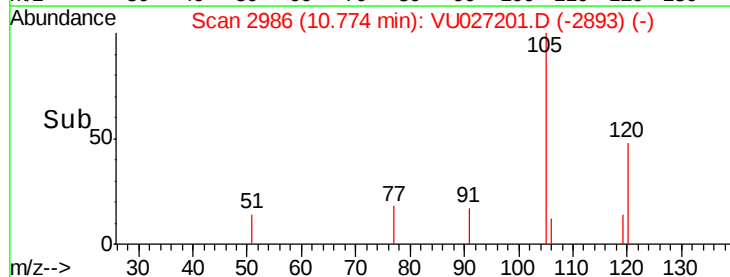
105 100

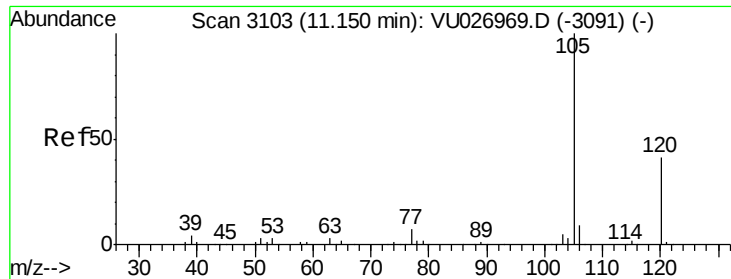
120 49.1 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

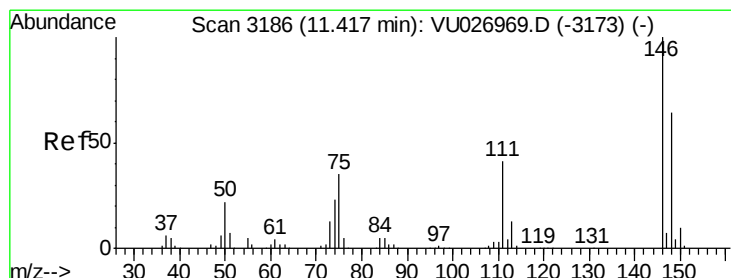
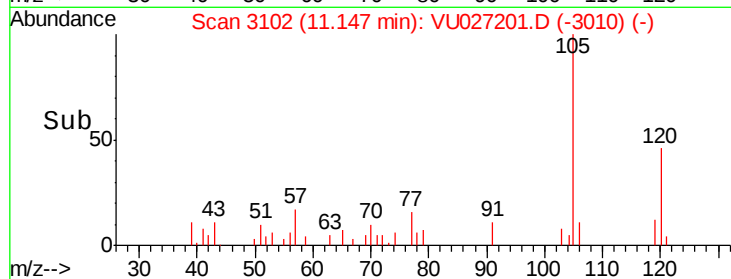
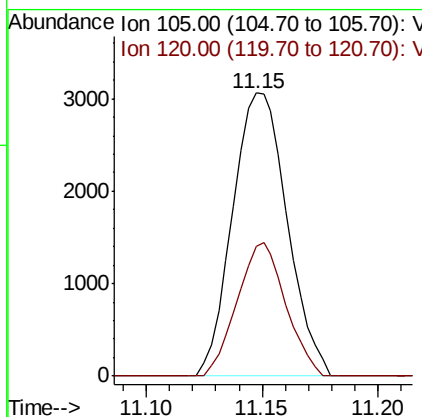
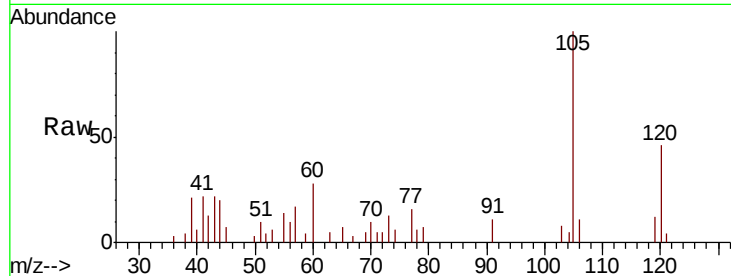




#84
 1,2,4-Trimethylbenzene
 Concen: 0.784 ug/l
 RT: 11.15 min Scan# 3102
 Delta R.T. -0.00 min
 Lab File: VU027201.D
 Acq: 27 Sep 2018 01:11

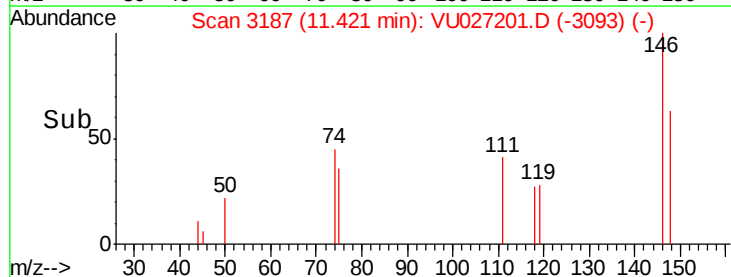
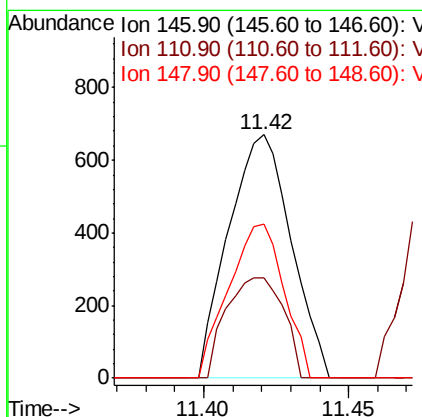
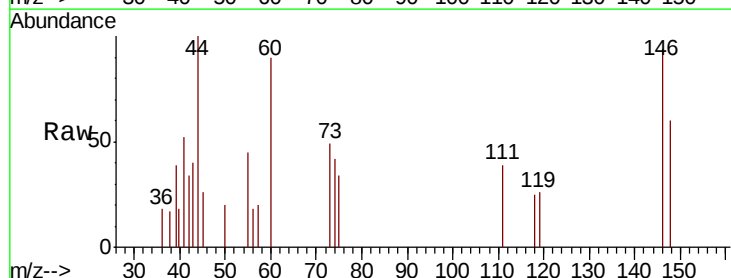
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-36-SEP18

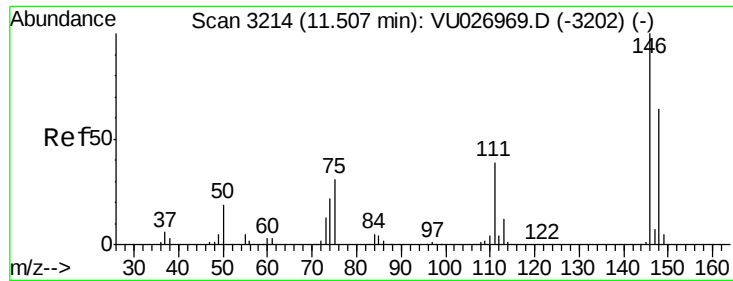
Tot Ion:105 Resp: 5007
 Ion Ratio Lower Upper
 105 100
 120 41.8 22.4 67.2



#87
 1,3-Dichlorobenzene
 Concen: 0.290 ug/l
 RT: 11.42 min Scan# 3187
 Delta R.T. 0.00 min
 Lab File: VU027201.D
 Acq: 27 Sep 2018 01:11

Tgt Ion:146 Resp: 1004
 Ion Ratio Lower Upper
 146 100
 111 37.6 20.8 62.2
 148 56.1 32.0 96.2

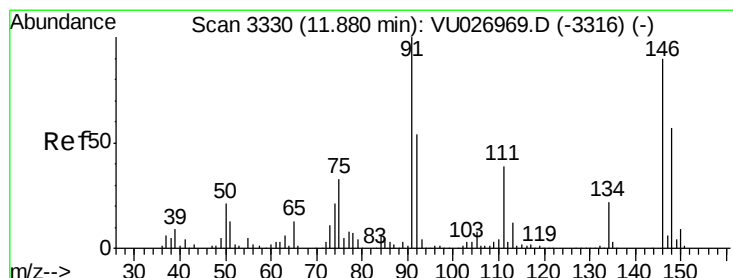
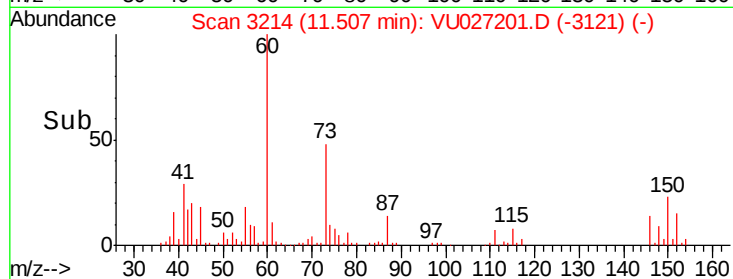
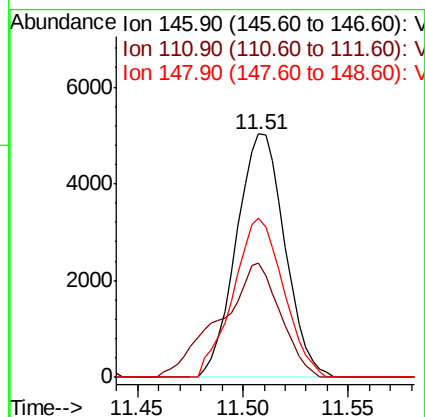
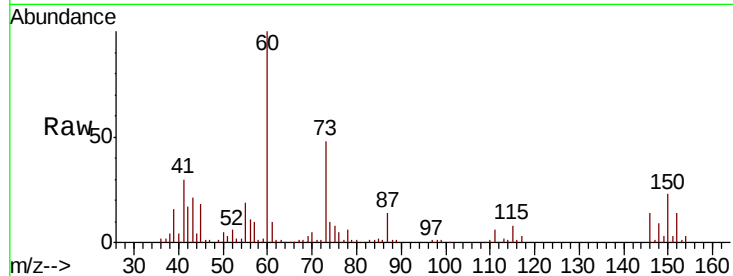




#88
 1,4-Dichlorobenzene
 Concen: 2.127 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU027201.D
 Acq: 27 Sep 2018 01:11

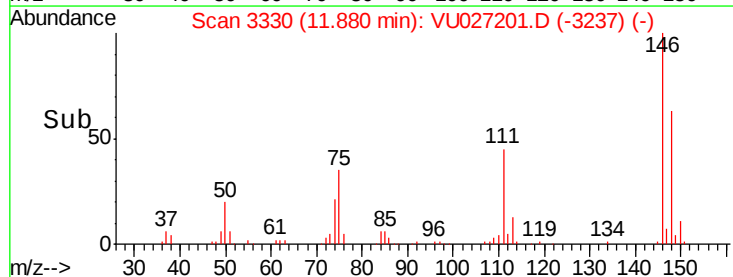
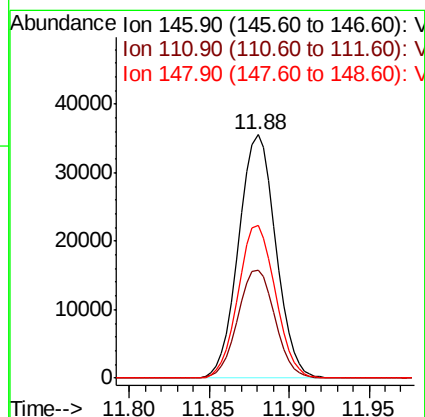
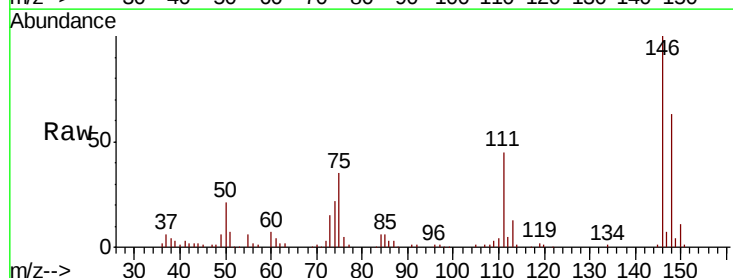
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-36-SEP18

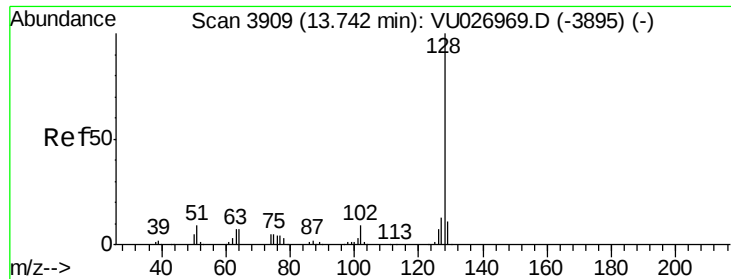
Tot Ion:146 Resp: 8017
 Ion Ratio Lower Upper
 146 100
 111 58.3 20.3 60.9
 148 68.0 31.9 95.9



#91
 1,2-Dichlorobenzene
 Concen: 15.282 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU027201.D
 Acq: 27 Sep 2018 01:11

Tgt Ion:146 Resp: 56146
 Ion Ratio Lower Upper
 146 100
 111 44.4 21.8 65.3
 148 62.8 31.9 95.7





#95

Naphthalene

Concen: 11.634 ug/l

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU027201.D

Acq: 27 Sep 2018 01:11

Instrument :

MSVOA_U

ClientSampleId :

MW-36-SEP18

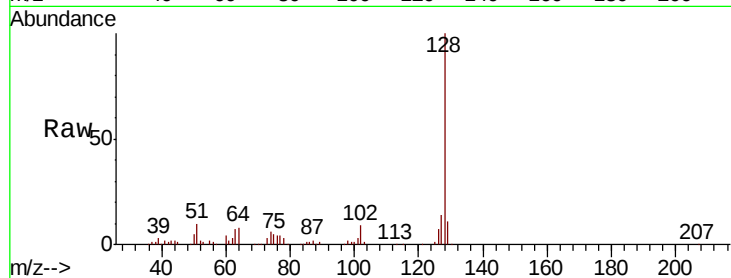
Tot Ion:128 Resp: 85203

Ion Ratio Lower Upper

128 100

127 13.4 10.6 15.8

129 11.2 8.6 12.8



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

