

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111318\
 Data File : VU028098.D
 Acq On : 13 Nov 2018 17:42
 Operator : MD/SY
 Sample : PB114744ZHE#16
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 14 07:00:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	269455	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	492651	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	437514	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	180095	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	205696	51.35	ug/l	0.00
Spiked Amount			Recovery	=	102.70%	
35) Dibromofluoromethane	4.88	113	157011	50.55	ug/l	0.00
Spiked Amount			Recovery	=	101.10%	
50) Toluene-d8	7.57	98	625745	52.15	ug/l	0.00
Spiked Amount			Recovery	=	104.30%	
62) 4-Bromofluorobenzene	10.31	95	211967	47.89	ug/l	0.00
Spiked Amount			Recovery	=	95.78%	

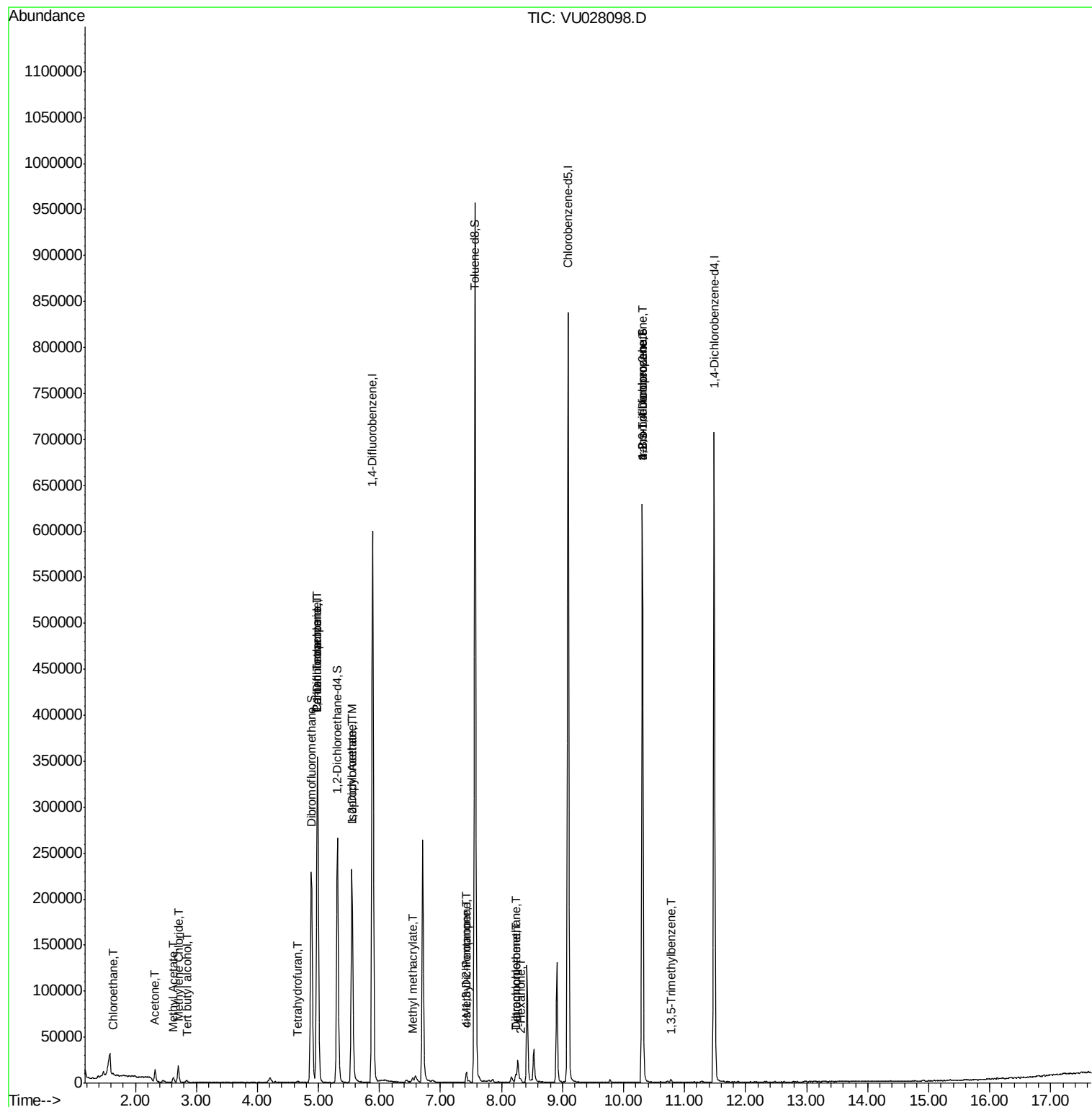
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.65	64	535	0.226	ug/l #	42
11) Tert butyl alcohol	2.84	59	1444	1.362	ug/l #	73
13) Acrolein	2.20	56	105	Below Cal	#	43
16) Acetone	2.32	43	13397	5.390	ug/l	99
18) Methyl Acetate	2.62	43	7406	1.083	ug/l	96
20) Methylene Chloride	2.70	84	7650	2.108	ug/l	95
29) Tetrahydrofuran	4.66	42	1017	0.385	ug/l #	84
31) Cyclohexane	4.98	56	5921	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	22682	4.396	ug/l #	50
38) Carbon Tetrachloride	4.99	117	25231	5.518	ug/l #	17
42) 1,2-Dichloroethane	5.55	62	1170	0.209	ug/l #	76
43) Isopropyl Acetate	5.55	43	271119	22.890	ug/l	99
48) Methyl methacrylate	6.55	41	8386	1.445	ug/l #	26
51) 4-Methyl-2-Pentanone	7.42	43	4486	0.567	ug/l #	49
54) cis-1,3-Dichloropropene	7.43	75	1717	0.276	ug/l #	65
59) 2-Hexanone	8.31	43	3080	0.503	ug/l #	26
60) Dibromochloromethane	8.23	129	1260	0.353	ug/l #	10
64) Tetrachloroethene	8.22	164	1136	0.400	ug/l #	81
76) 1,2,3-Trichloropropane	10.31	75	105041	21.323	ug/l #	35
80) 1,3,5-Trimethylbenzene	10.77	105	2428	0.210	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.31	75	105041	53.223	ug/l #	100
95) Naphthalene	13.77	128	307	Below Cal	#	69

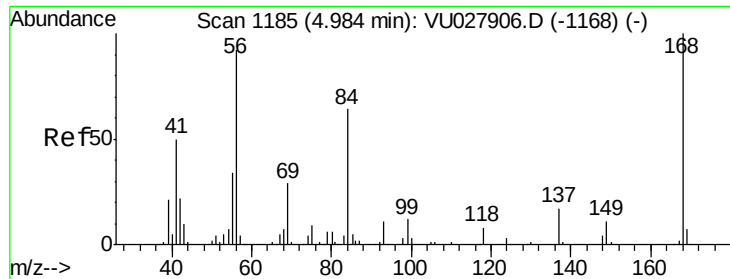
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 02 02:28:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028098.D

Acq: 13 Nov 2018 17:42

Instrument :

MSVOA_U

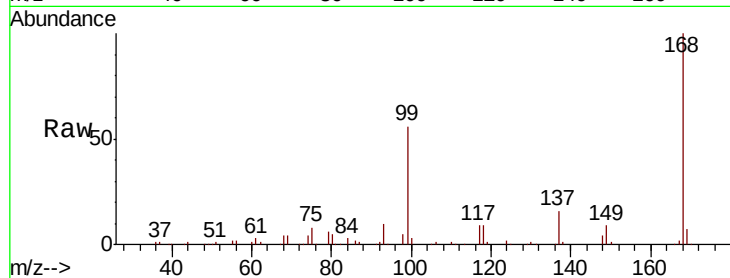
ClientSampled :

Tot Ion:168 Resp: 269455

Ion Ratio Lower Upper

168 100

99 56.0 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)

4.98

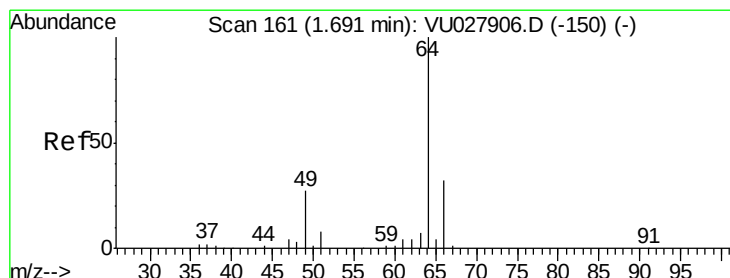
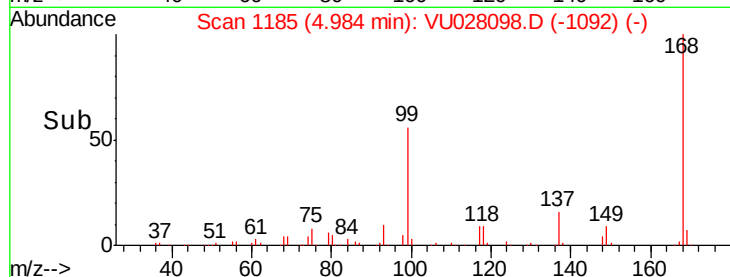
100000

50000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#6

Chloroethane

Concen: 0.226 ug/l

RT: 1.65 min Scan# 149

Delta R.T. -0.04 min

Lab File: VU028098.D

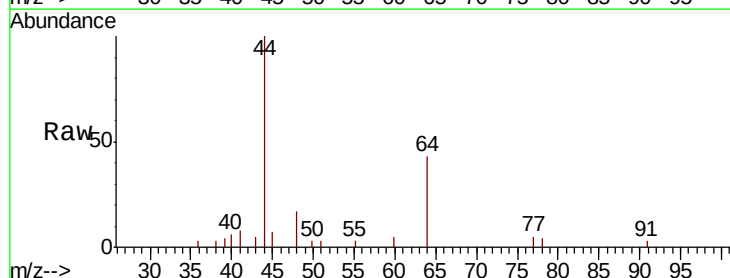
Acq: 13 Nov 2018 17:42

Tgt Ion: 64 Resp: 535

Ion Ratio Lower Upper

64 100

66 0.0 25.9 38.9#



Abundance Ion 63.90 (63.60 to 64.60): VU027906.D (-150) (-)

Ion 65.90 (65.60 to 66.60): VU027906.D (-150) (-)

1.65

2000

1500

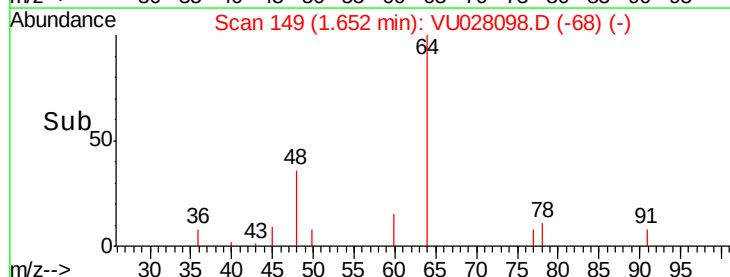
1000

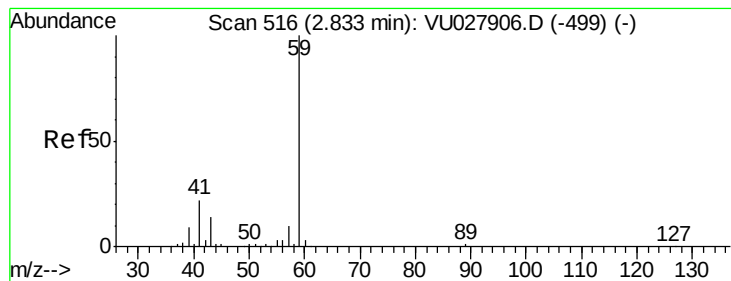
500

0

1.64 1.66 1.68

Time-->



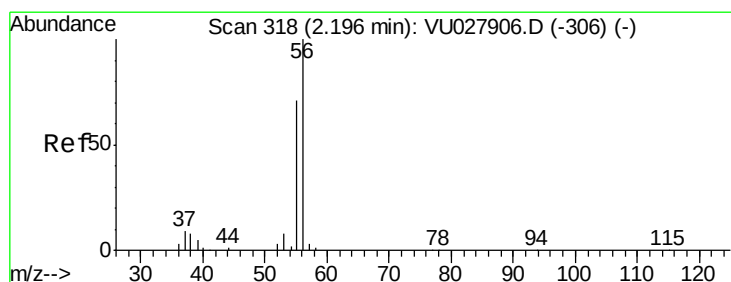
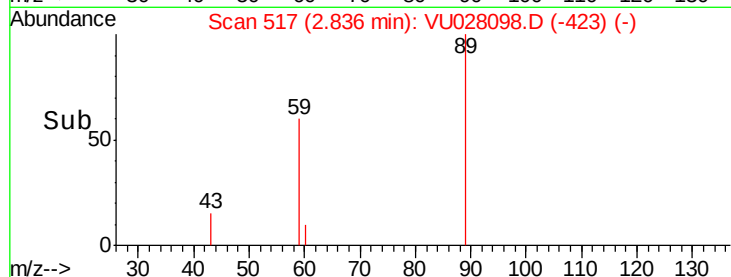
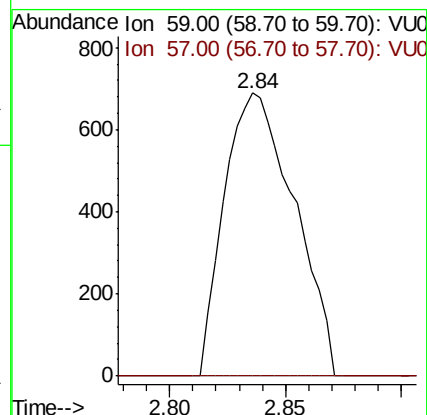
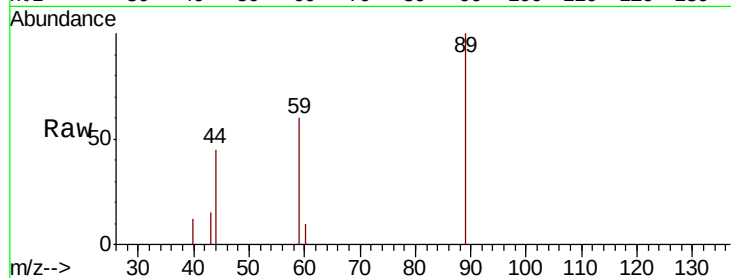


#11

Tert butyl alcohol
 Concen: 1.362 ug/l
 RT: 2.84 min Scan# 517
 Delta R.T. 0.00 min
 Lab File: VU028098.D
 Acq: 13 Nov 2018 17:42

Instrument :
 MSVOA_U
 ClientSampleId :

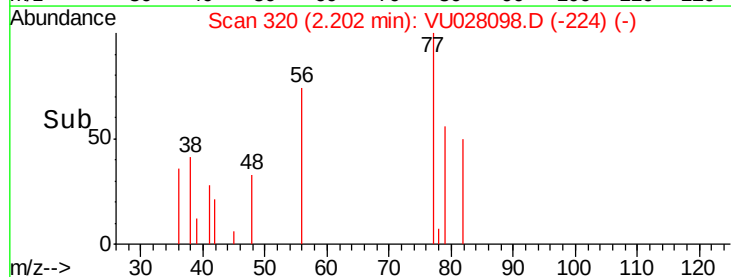
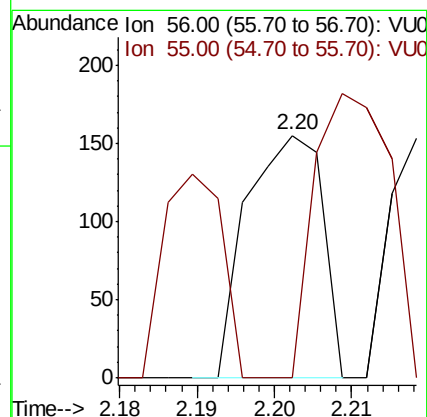
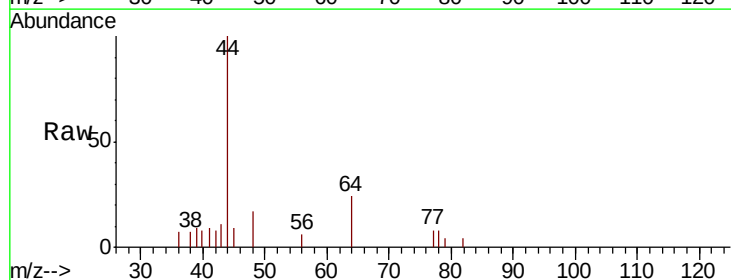
Tot Ion: 59 Resp: 1444
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

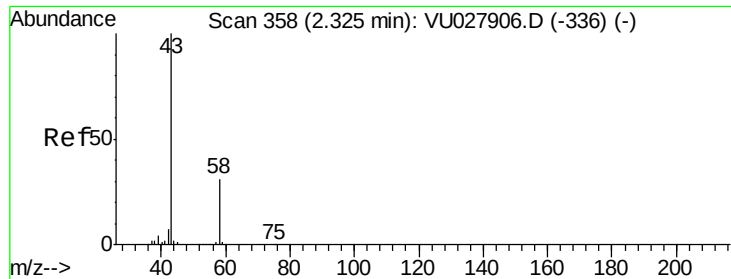


#13

Acrolein
 Concen: Below Cal
 RT: 2.20 min Scan# 320
 Delta R.T. 0.01 min
 Lab File: VU028098.D
 Acq: 13 Nov 2018 17:42

Tgt Ion: 56 Resp: 105
 Ion Ratio Lower Upper
 56 100
 55 117.1 56.2 84.4#





#16

Acetone

Concen: 5.390 ug/l

RT: 2.32 min Scan# 358

Delta R.T. -0.00 min

Lab File: VU028098.D

Acq: 13 Nov 2018 17:42

Instrument :

MSVOA_U

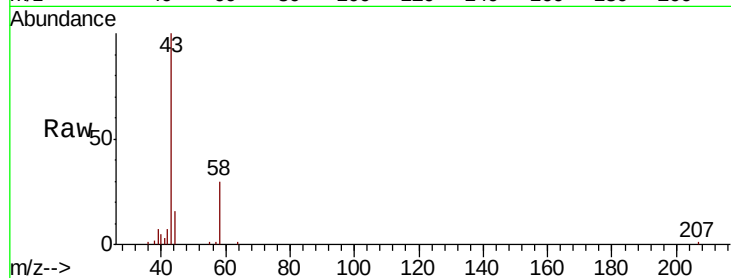
ClientSampleId :

Tot Ion: 43 Resp: 13397

Ion Ratio Lower Upper

43 100

58 30.5 24.6 37.0

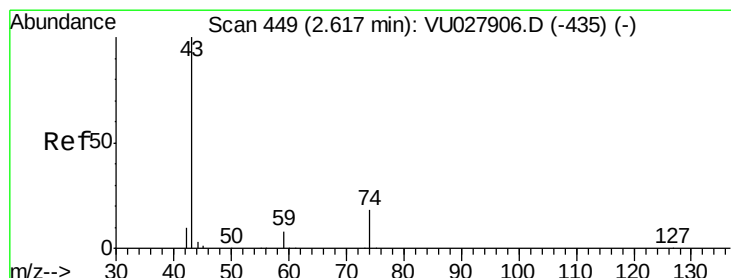
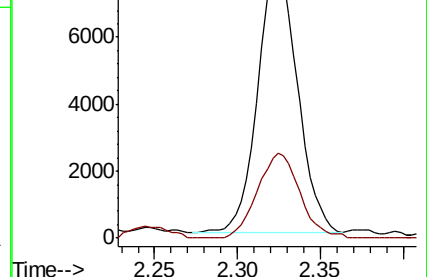
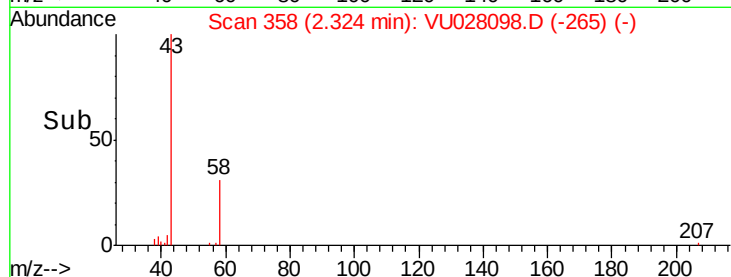


Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-336) (-)

Ion 58.00 (57.70 to 58.70): VU027906.D (-336) (-)

2.32

Time-->



#18

Methyl Acetate

Concen: 1.083 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.00 min

Lab File: VU028098.D

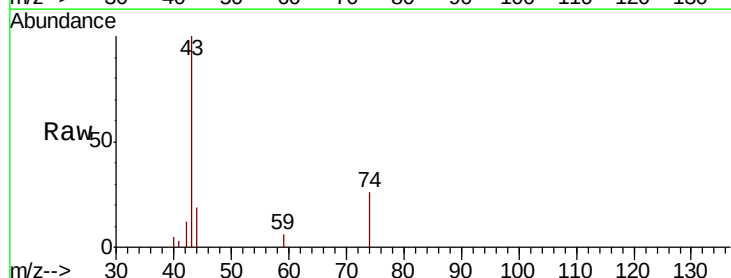
Acq: 13 Nov 2018 17:42

Tgt Ion: 43 Resp: 7406

Ion Ratio Lower Upper

43 100

74 20.4 14.9 22.3

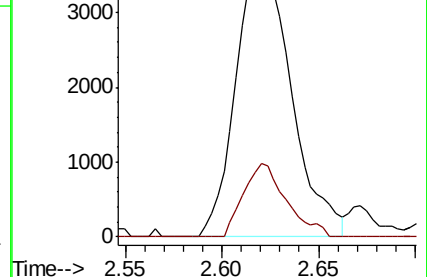
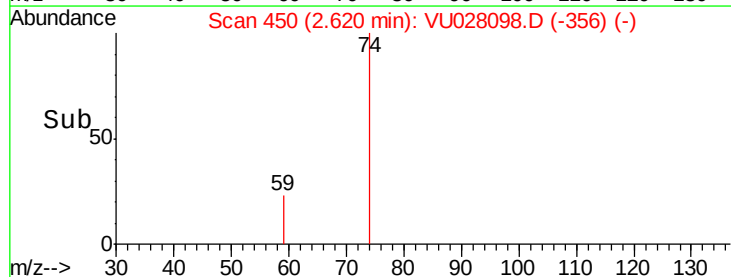


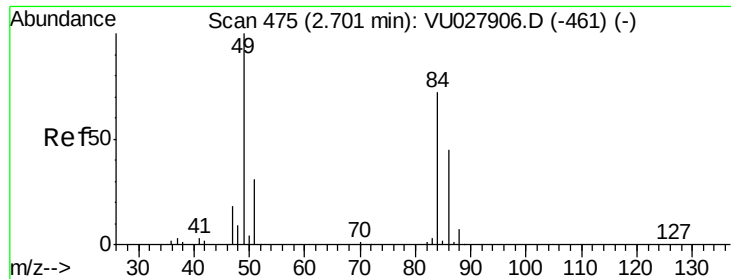
Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-435) (-)

Ion 74.00 (73.70 to 74.70): VU027906.D (-435) (-)

2.62

Time-->

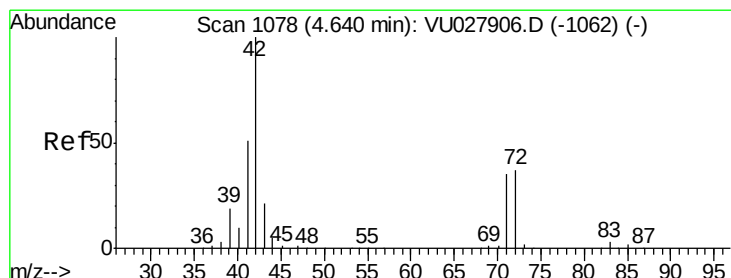
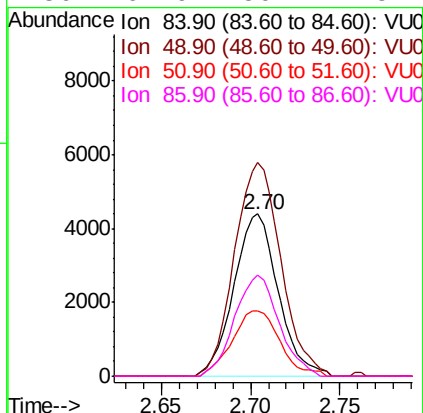
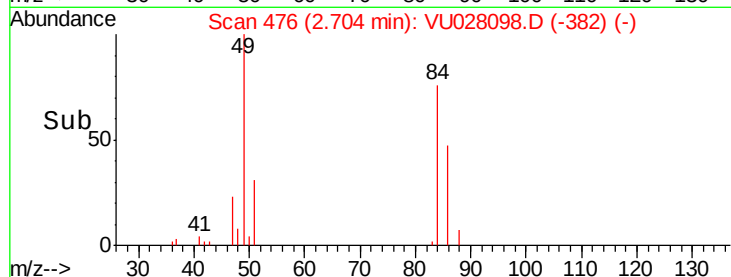
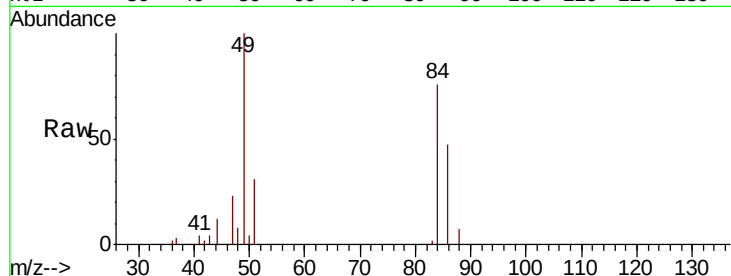




#20
Methylene Chloride
Concen: 2.108 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU028098.D
Acq: 13 Nov 2018 17:42

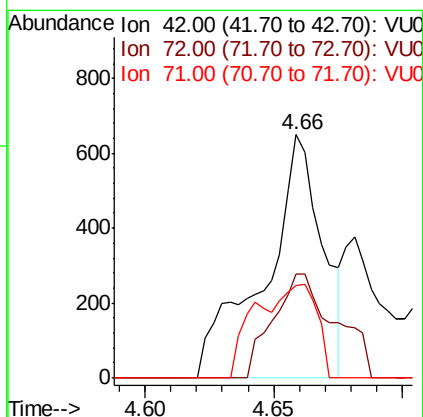
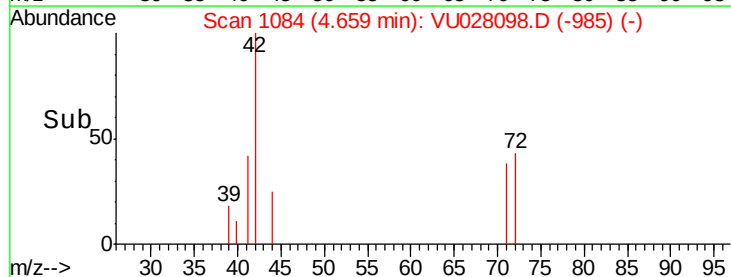
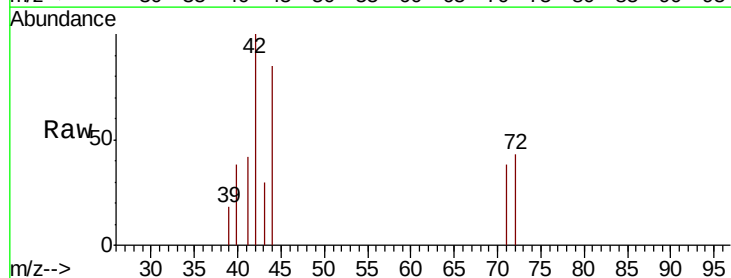
Instrument :
MSVOA_U
ClientSampleId :

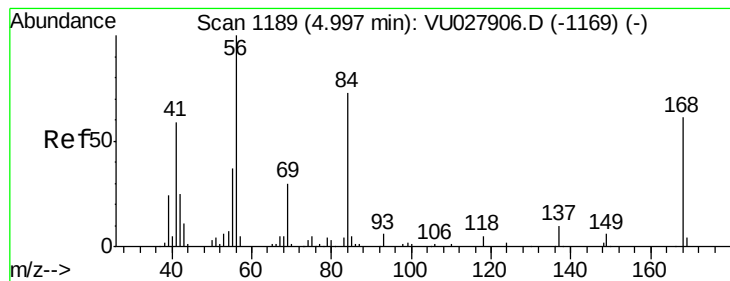
Tot Ion:	84	Resp:	7650
Ion	Ratio	Lower	Upper
84	100		
49	131.5	111.6	167.4
51	40.2	34.8	52.2
86	61.9	50.1	75.1



#29
Tetrahydrofuran
Concen: 0.385 ug/l
RT: 4.66 min Scan# 1084
Delta R.T. 0.02 min
Lab File: VU028098.D
Acq: 13 Nov 2018 17:42

Tgt Ion:	42	Resp:	1017
Ion	Ratio	Lower	Upper
42	100		
72	45.4	29.4	44.0#
71	24.5	27.9	41.9#





#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VU028098.D

Acq: 13 Nov 2018 17:42

Instrument :

MSVOA_U

ClientSampleId :

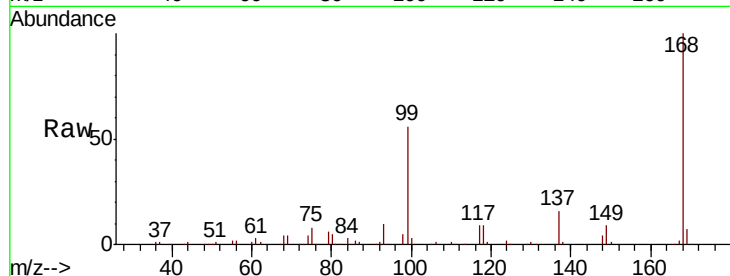
Tot Ion: 56 Resp: 5921

Ion Ratio Lower Upper

56 100

69 176.9 23.7 35.5#

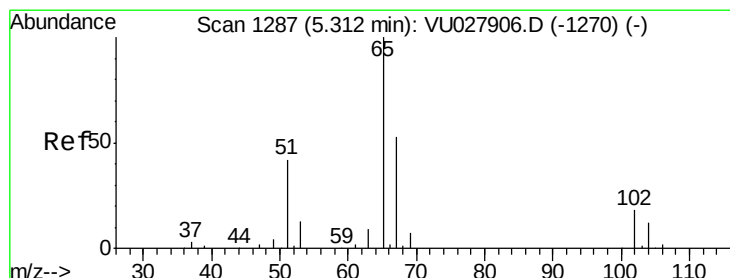
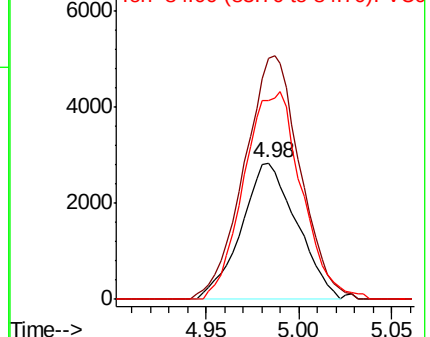
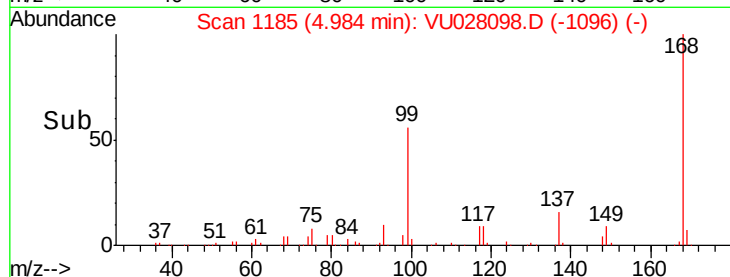
84 146.5 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VU028098.D (-1096) (-)

Ion 69.00 (68.70 to 69.70): VU028098.D (-1096) (-)

Ion 84.00 (83.70 to 84.70): VU028098.D (-1096) (-)



#33

1,2-Dichloroethane-d4

Concen: 51.345 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. -0.00 min

Lab File: VU028098.D

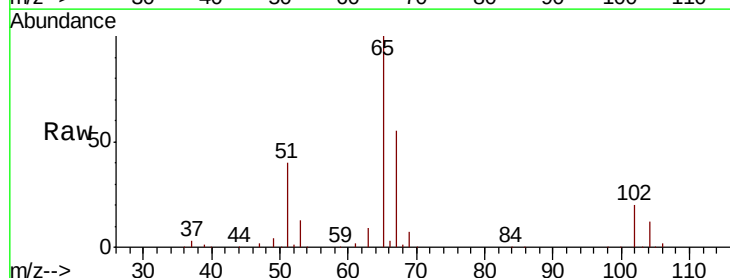
Acq: 13 Nov 2018 17:42

Tgt Ion: 65 Resp: 205696

Ion Ratio Lower Upper

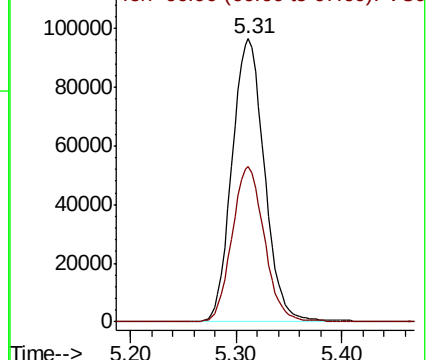
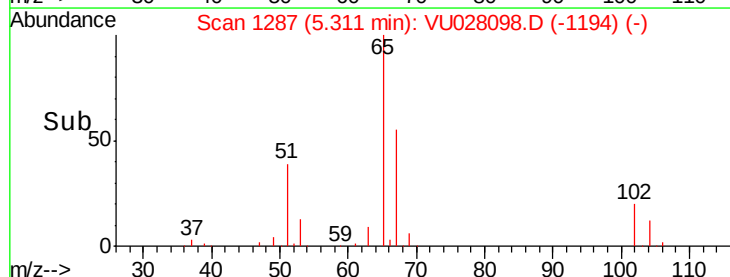
65 100

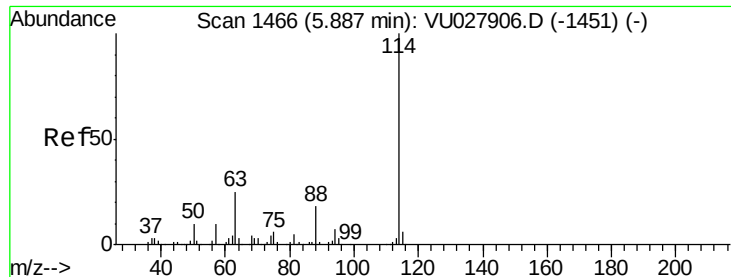
67 54.7 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VU028098.D (-1194) (-)

Ion 66.90 (66.60 to 67.60): VU028098.D (-1194) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1466

Delta R.T. -0.00 min

Lab File: VU028098.D

Acq: 13 Nov 2018 17:42

Instrument :

MSVOA_U

ClientSampleId :

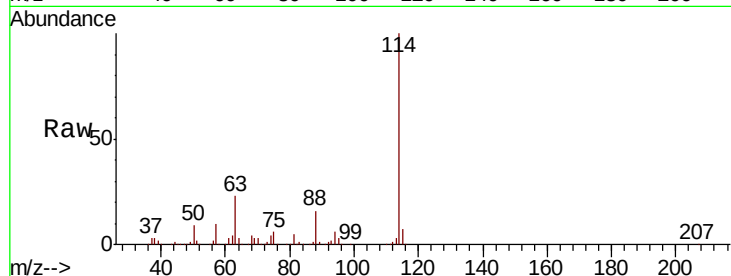
Tot Ion:114 Resp: 492651

Ion Ratio Lower Upper

114 100

63 22.9 0.0 50.8

88 16.3 0.0 35.8



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

300000

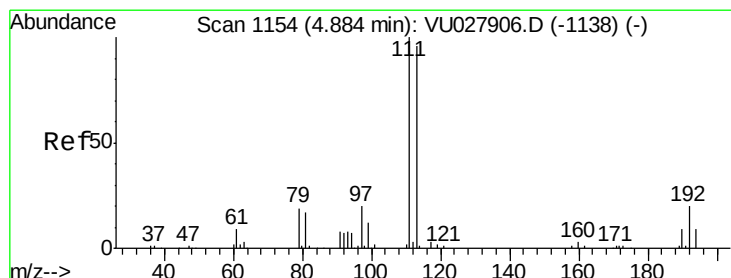
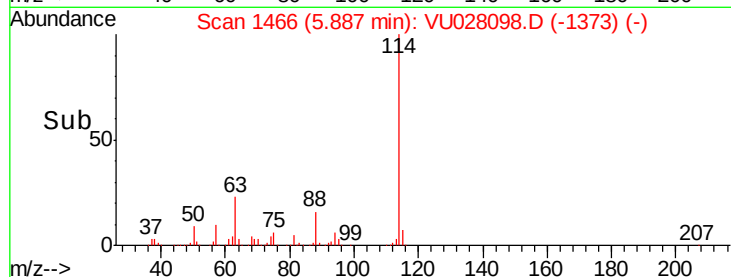
200000

100000

0

5.89

Time-->



#35

Dibromofluoromethane

Concen: 50.547 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. -0.00 min

Lab File: VU028098.D

Acq: 13 Nov 2018 17:42

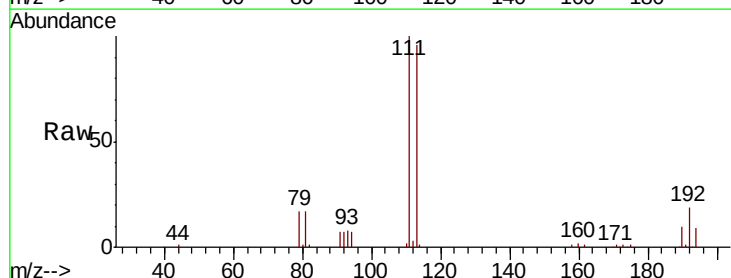
Tgt Ion:113 Resp: 157011

Ion Ratio Lower Upper

113 100

111 103.9 83.0 124.6

192 19.8 15.6 23.4



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

100000

80000

60000

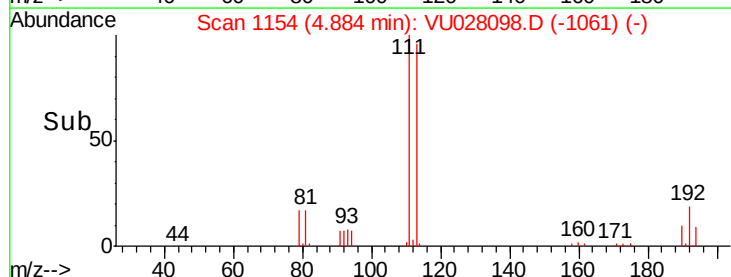
40000

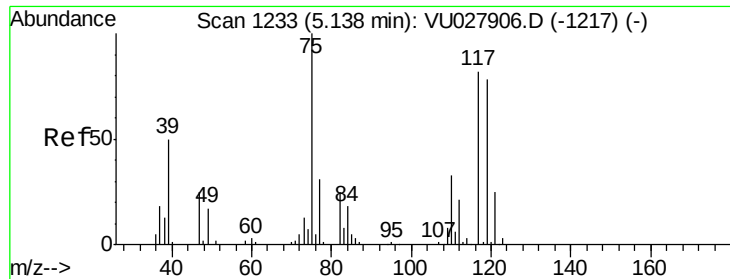
20000

0

4.88

Time-->

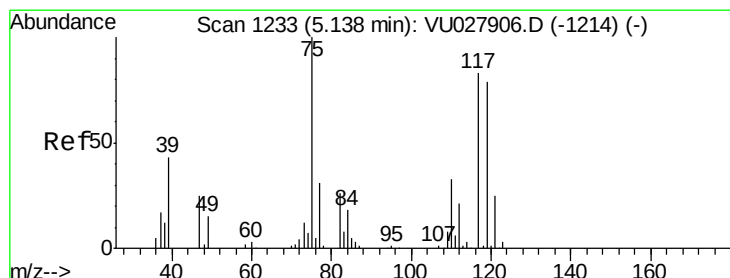
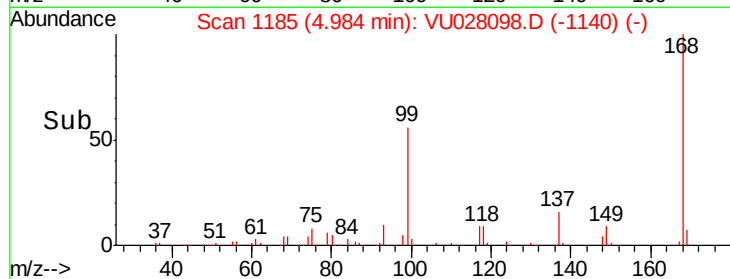
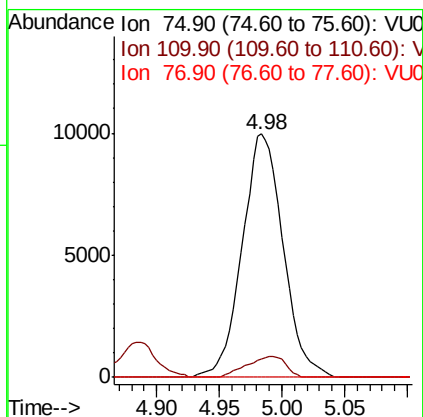
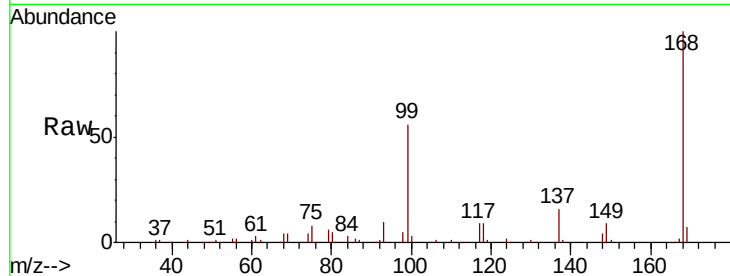




#36
 1,1-Dichloropropene
 Concen: 4.396 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028098.D
 Acq: 13 Nov 2018 17:42

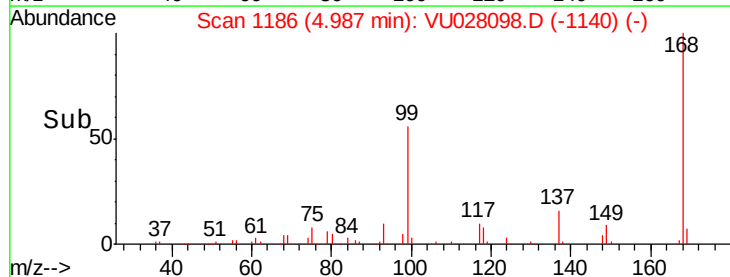
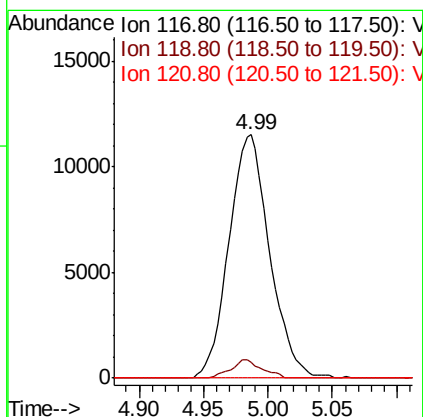
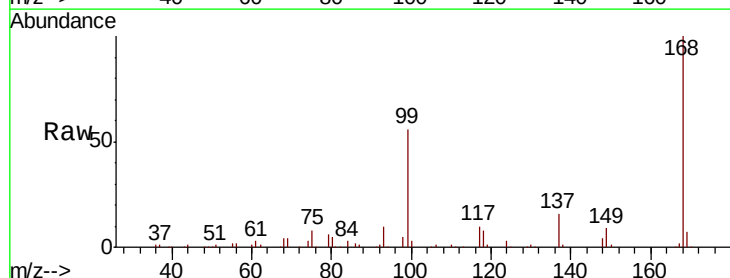
Instrument :
 MSVOA_U
 ClientSampleId :

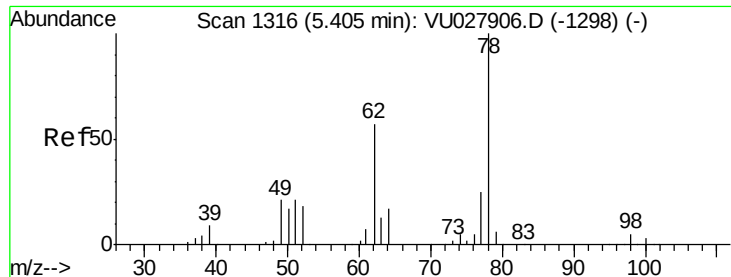
Tot Ion: 75 Resp: 22682
 Ion Ratio Lower Upper
 75 100
 110 8.1 16.5 49.5#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 5.518 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU028098.D
 Acq: 13 Nov 2018 17:42

Tgt Ion: 117 Resp: 25231
 Ion Ratio Lower Upper
 117 100
 119 6.2 76.0 114.0#
 121 0.0 24.5 36.7#

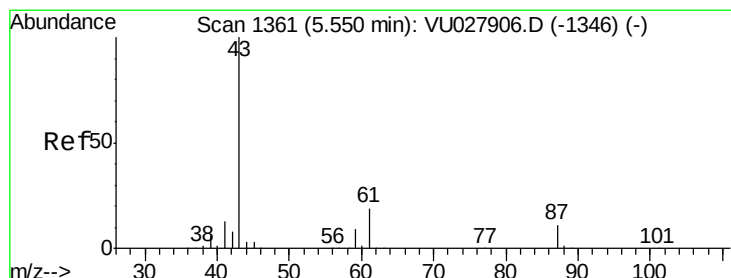
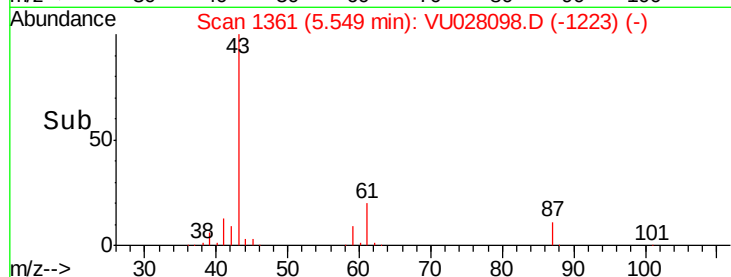
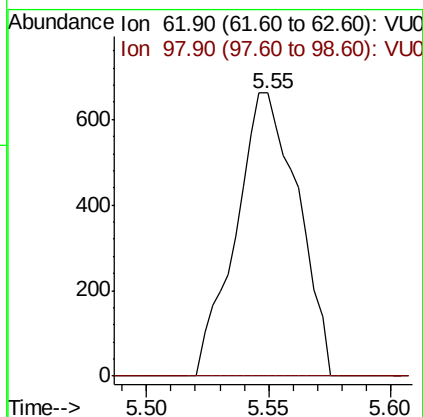
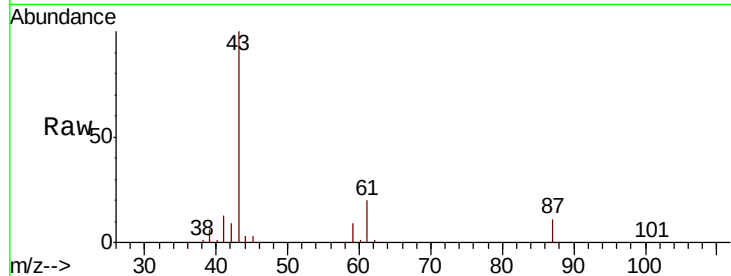




#42
 1,2-Dichloroethane
 Concen: 0.209 ug/l
 RT: 5.55 min Scan# 1361
 Delta R.T. 0.14 min
 Lab File: VU028098.D
 Acq: 13 Nov 2018 17:42

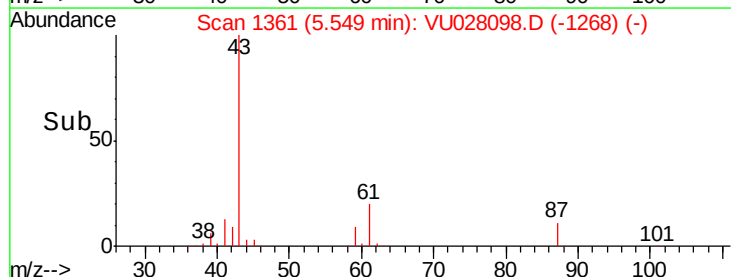
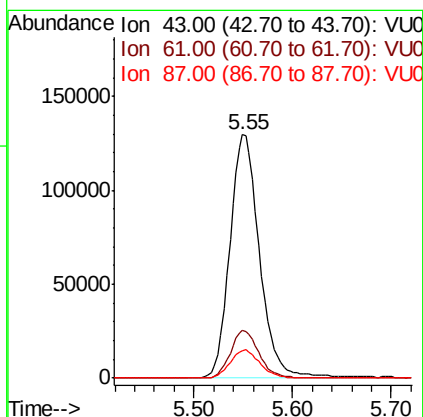
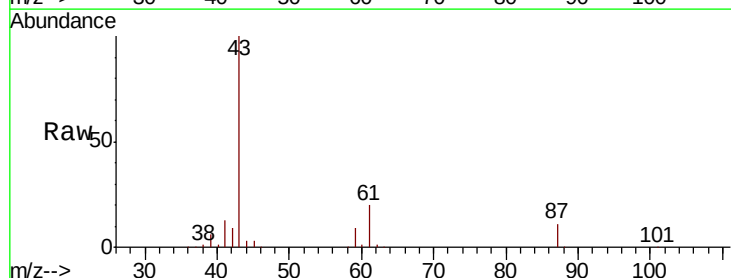
Instrument :
 MSVOA_U
 ClientSampleId :

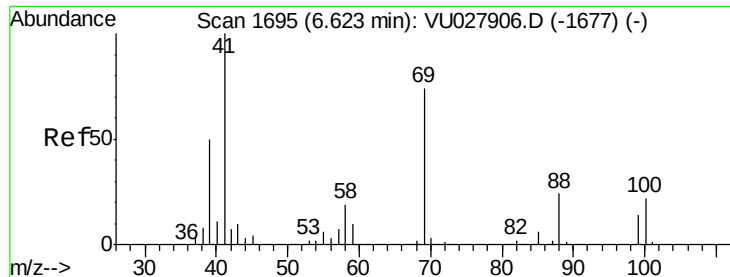
Tot Ion: 62 Resp: 1170
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 17.2



#43
 Isopropyl Acetate
 Concen: 22.890 ug/l
 RT: 5.55 min Scan# 1361
 Delta R.T. -0.00 min
 Lab File: VU028098.D
 Acq: 13 Nov 2018 17:42

Tgt Ion: 43 Resp: 271119
 Ion Ratio Lower Upper
 43 100
 61 18.9 15.0 22.4
 87 11.6 8.6 12.8

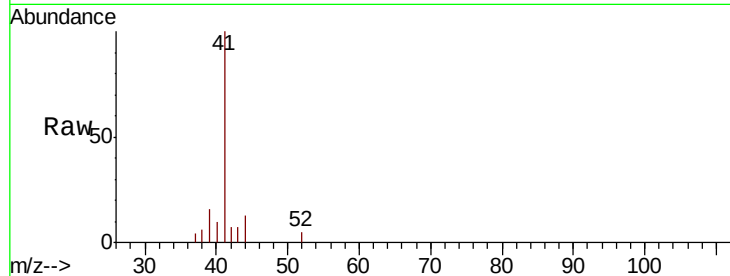




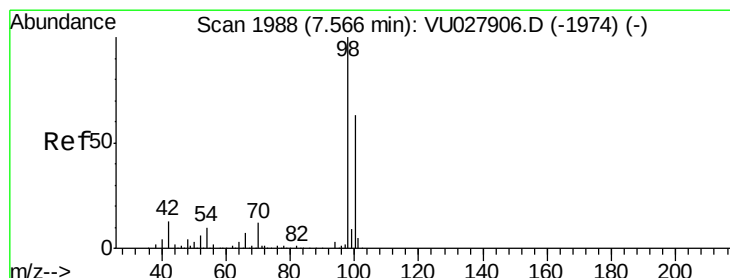
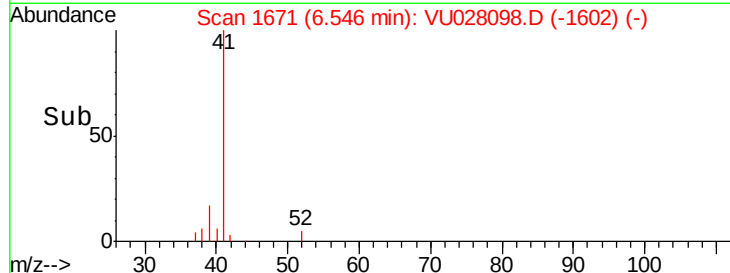
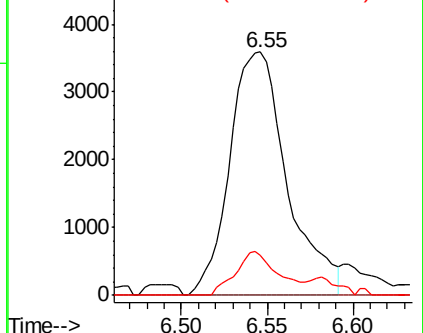
#48
Methvl methacrylate
Concen: 1.445 ug/l
RT: 6.55 min Scan# 1671
Delta R.T. -0.08 min
Lab File: VU028098.D
Acq: 13 Nov 2018 17:42

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 41 Resp: 8386
Ion Ratio Lower Upper
41 100
69 0.0 59.8 89.8#
39 13.4 40.0 60.0#

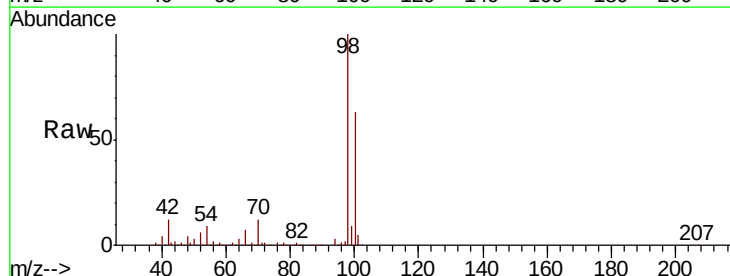


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

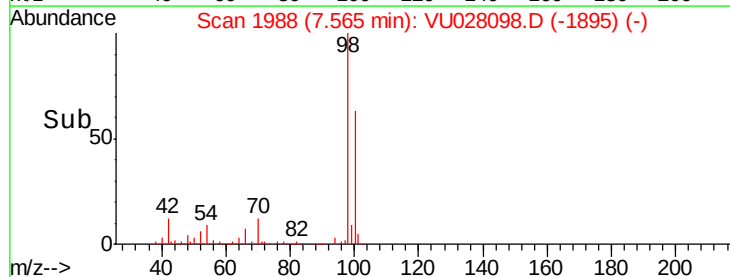
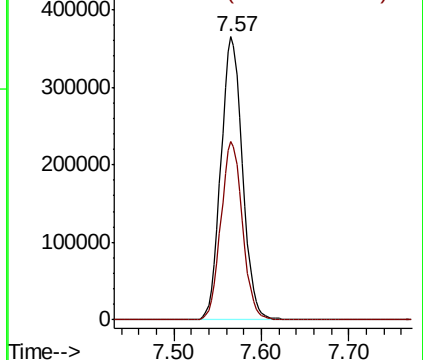


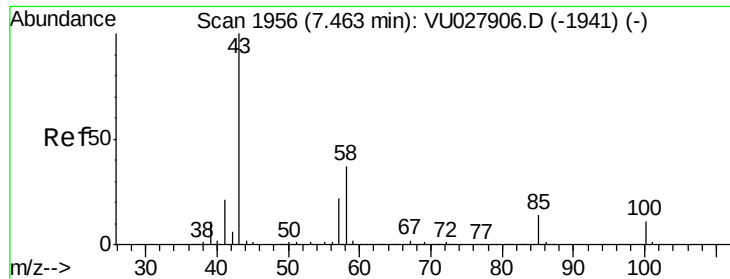
#50
Toluene-d8
Concen: 52.149 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028098.D
Acq: 13 Nov 2018 17:42

Tgt Ion: 98 Resp: 625745
Ion Ratio Lower Upper
98 100
100 62.8 50.1 75.1



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





#51

4-Methyl-2-Pentanone

Concen: 0.567 ug/l

RT: 7.42 min Scan# 1944

Delta R.T. -0.04 min

Lab File: VU028098.D

Acq: 13 Nov 2018 17:42

Instrument :

MSVOA_U

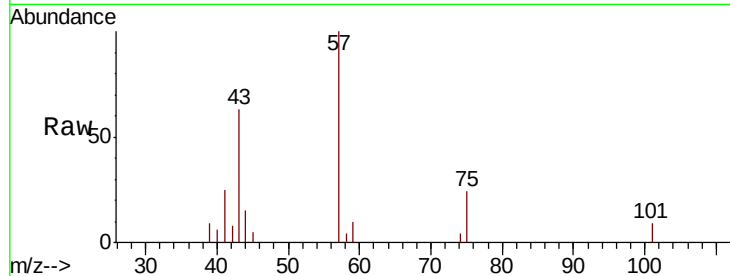
ClientSampleId :

Tot Ion: 43 Resp: 4486

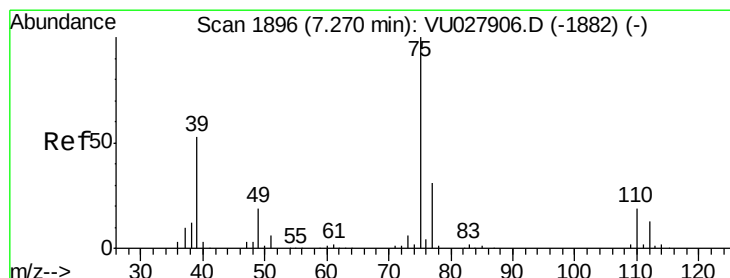
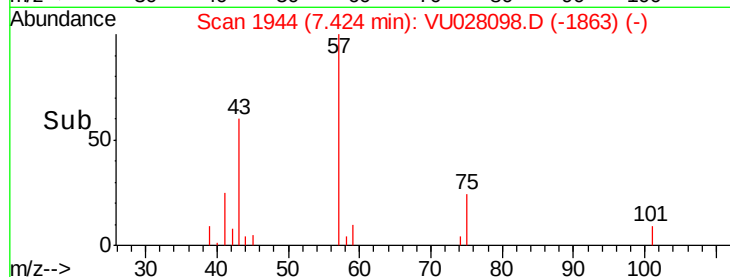
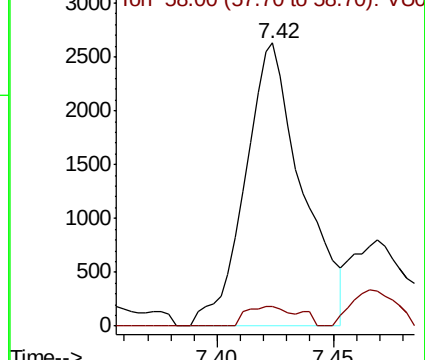
Ion Ratio Lower Upper

43 100

58 6.4 29.5 44.3#



Abundance Ion 43.00 (42.70 to 43.70): VU028098.D (-1863) (-)



#54

cis-1,3-Dichloropropene

Concen: 0.276 ug/l

RT: 7.43 min Scan# 1945

Delta R.T. 0.16 min

Lab File: VU028098.D

Acq: 13 Nov 2018 17:42

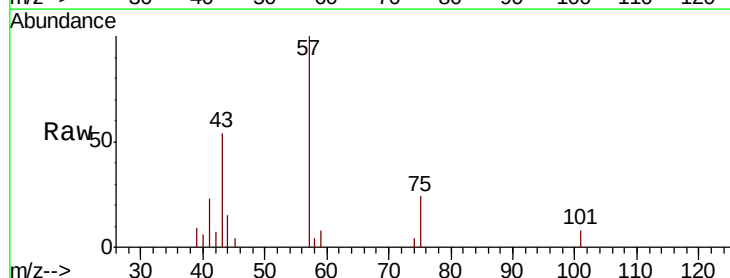
Tgt Ion: 75 Resp: 1717

Ion Ratio Lower Upper

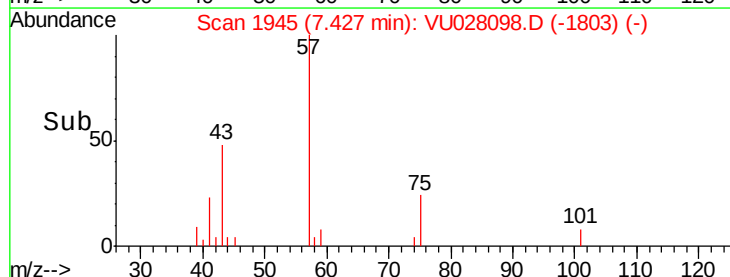
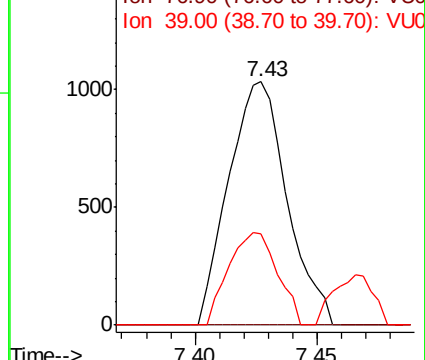
75 100

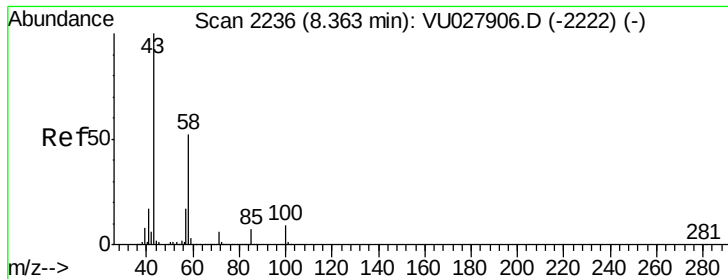
77 0.0 24.6 37.0#

39 37.5 42.6 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VU028098.D (-1803) (-)

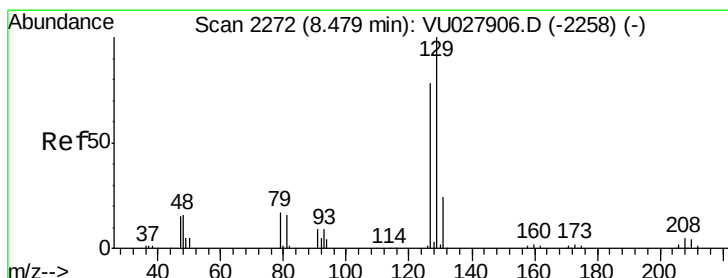
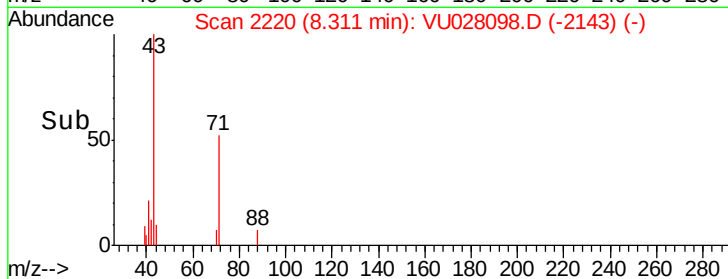
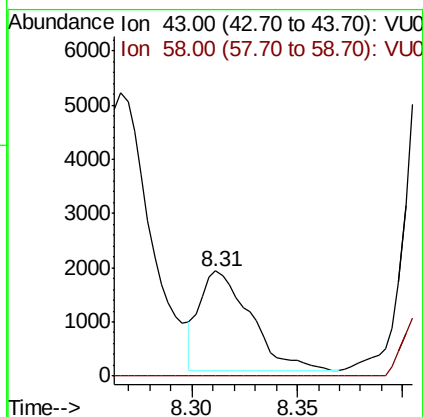
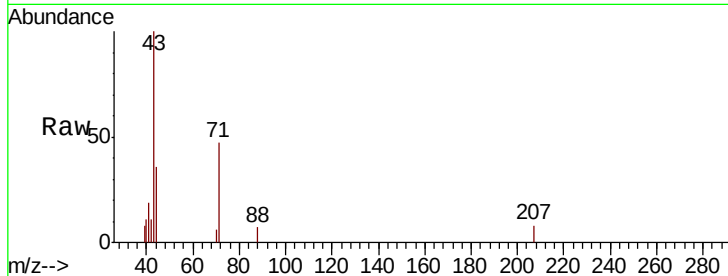




#59
2-Hexanone
Concen: 0.503 ug/l
RT: 8.31 min Scan# 2220
Delta R.T. -0.05 min
Lab File: VU028098.D
Acq: 13 Nov 2018 17:42

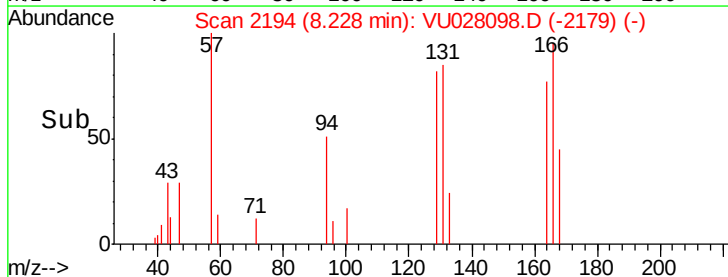
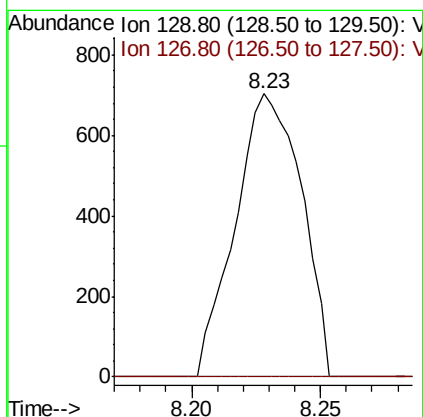
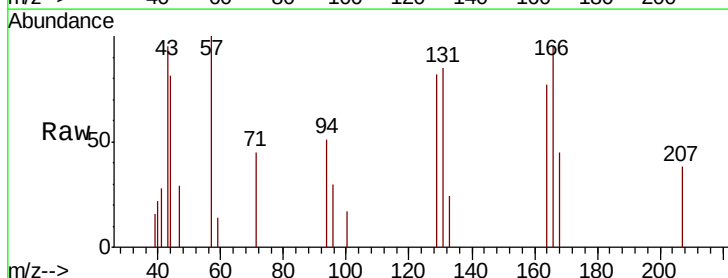
Instrument :
MSVOA_U
ClientSampled :

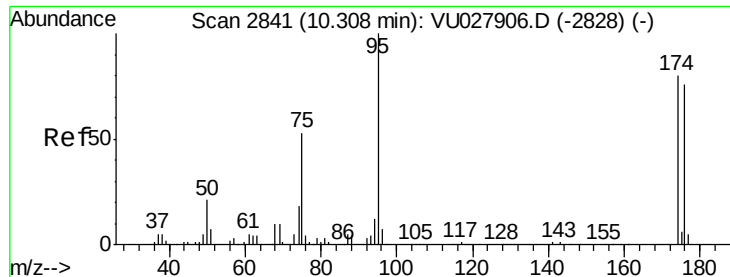
Tot Ion: 43 Resp: 3080
Ion Ratio Lower Upper
43 100
58 0.0 25.8 77.3#



#60
Dibromochloromethane
Concen: 0.353 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.25 min
Lab File: VU028098.D
Acq: 13 Nov 2018 17:42

Tgt Ion: 129 Resp: 1260
Ion Ratio Lower Upper
129 100
127 0.0 39.2 117.6#

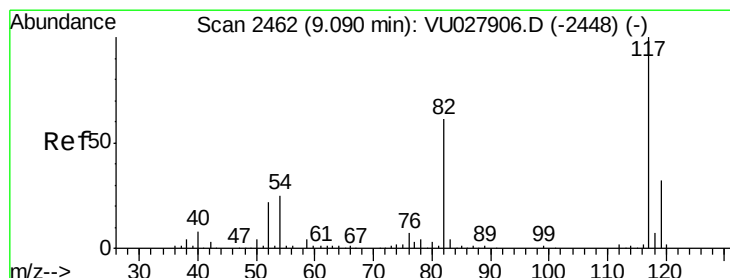
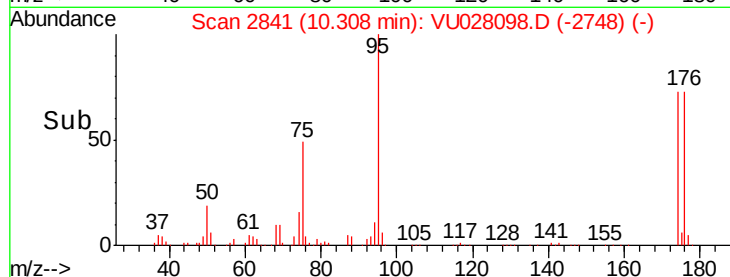
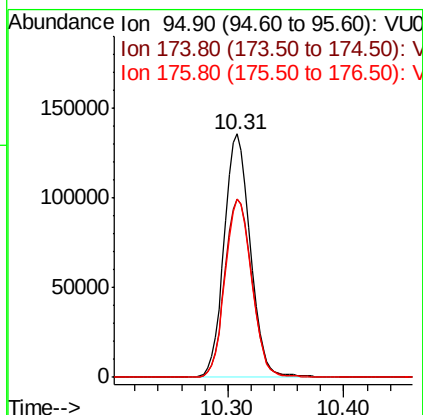
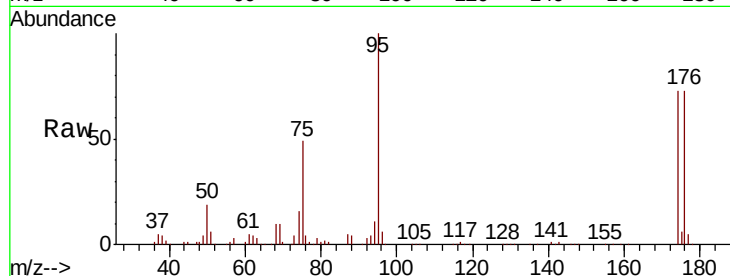




#62
4-Bromofluorobenzene
Concen: 47.893 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.00 min
Lab File: VU028098.D
Acq: 13 Nov 2018 17:42

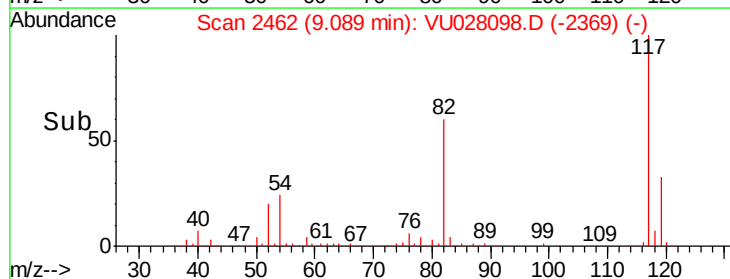
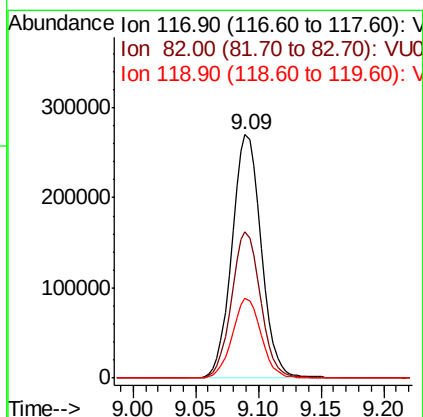
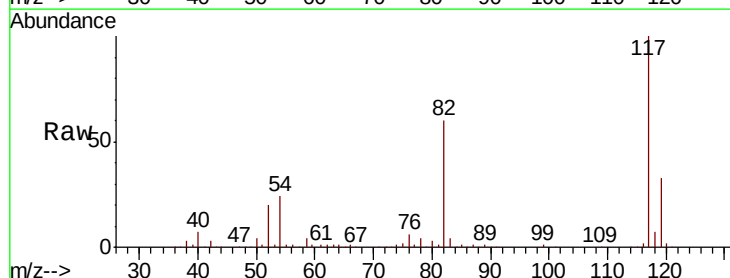
Instrument :
MSVOA_U
ClientSampleId :

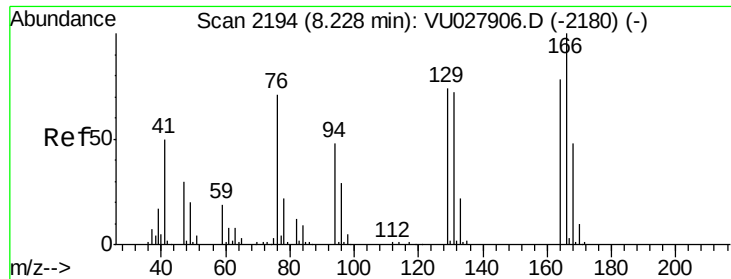
Tot Ion: 95 Resp: 211967
Ion Ratio Lower Upper
95 100
174 76.0 0.0 156.4
176 74.4 0.0 150.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028098.D
Acq: 13 Nov 2018 17:42

Tgt Ion: 117 Resp: 437514
Ion Ratio Lower Upper
117 100
82 60.1 48.6 73.0
119 32.6 25.8 38.8





#64

Tetrachloroethene

Concen: 0.400 ug/l

RT: 8.22 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU028098.D

Acq: 13 Nov 2018 17:42

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 1136

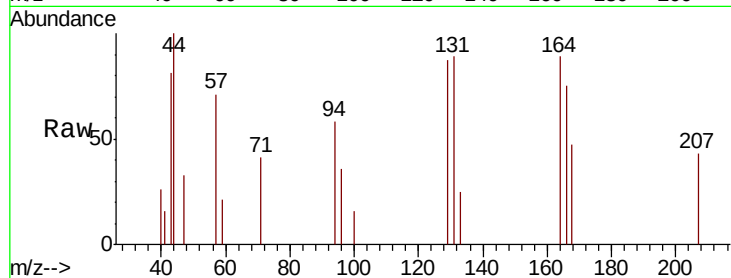
Ion Ratio Lower Upper

164 100

166 84.7 102.1 153.1#

129 97.8 75.9 113.9

131 100.7 73.0 109.6

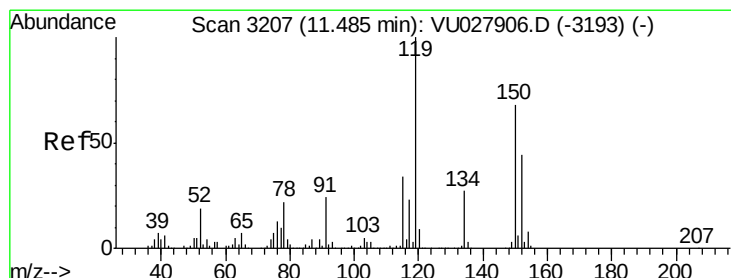
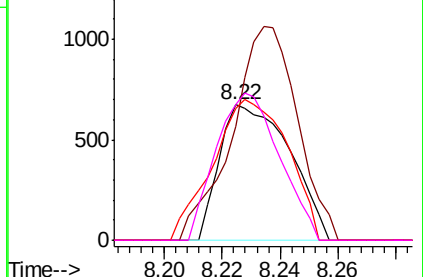
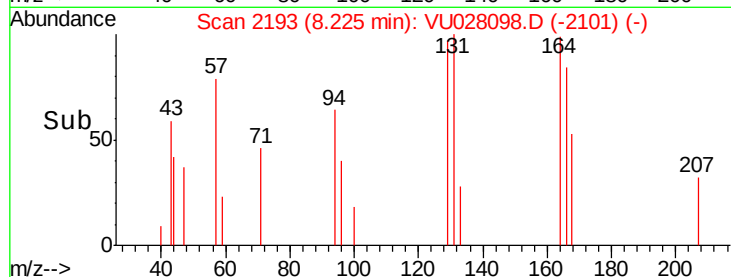


Abundance Ion 163.80 (163.50 to 164.50): V

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU028098.D

Acq: 13 Nov 2018 17:42

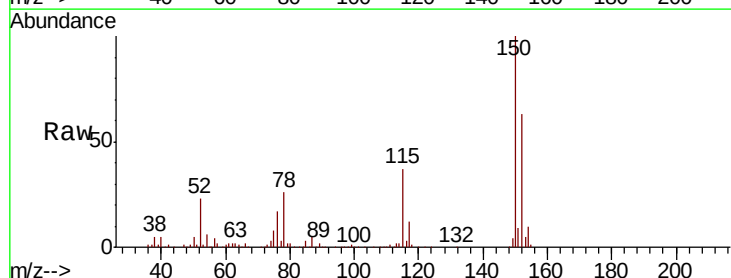
Tgt Ion:152 Resp: 180095

Ion Ratio Lower Upper

152 100

115 59.0 43.0 129.0

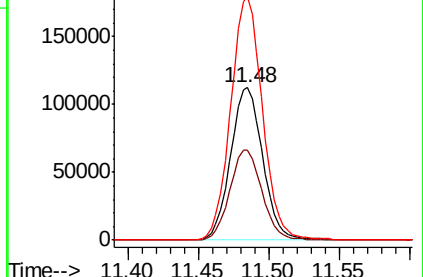
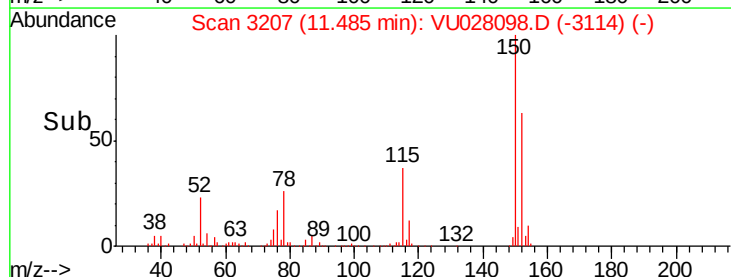
150 157.2 0.0 349.4

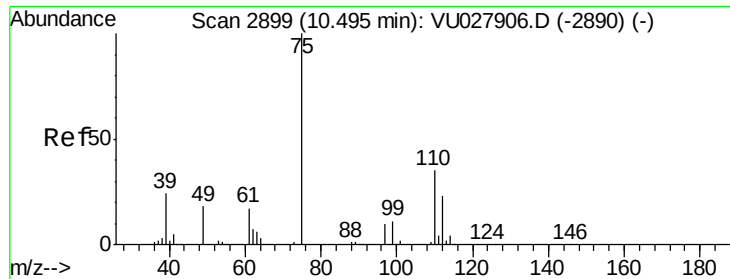


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.323 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU028098.D

Acq: 13 Nov 2018 17:42

Instrument :

MSVOA_U

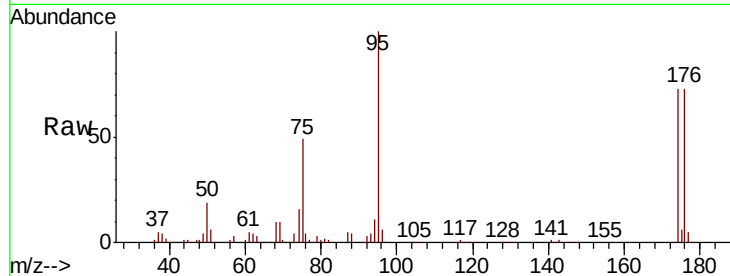
ClientSampled :

Tot Ion: 75 Resp: 105041

Ion Ratio Lower Upper

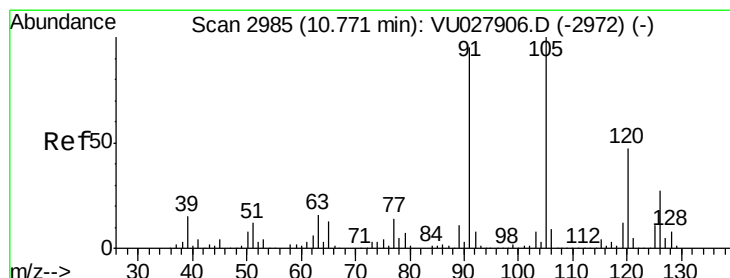
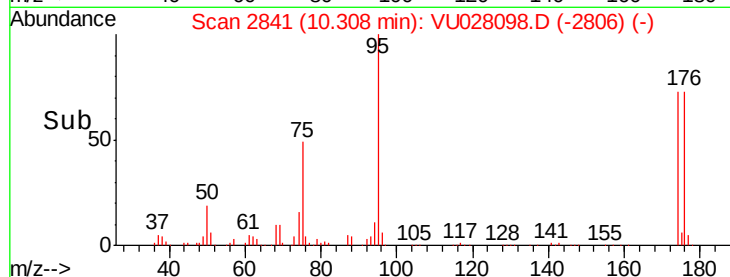
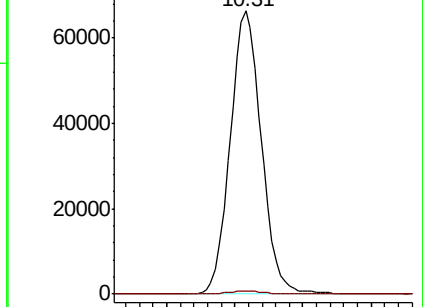
75 100

77 1.2 21.6 64.6#



Abundance Ion 74.90 (74.60 to 75.60): VU027906.D (-2890) (-)

Ion 77.00 (76.70 to 77.70): VU028098.D (-2806) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.210 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU028098.D

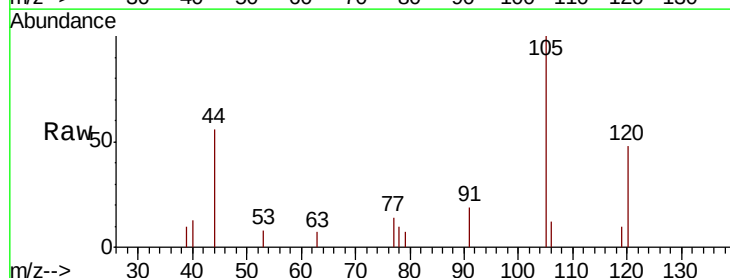
Acq: 13 Nov 2018 17:42

Tgt Ion: 105 Resp: 2428

Ion Ratio Lower Upper

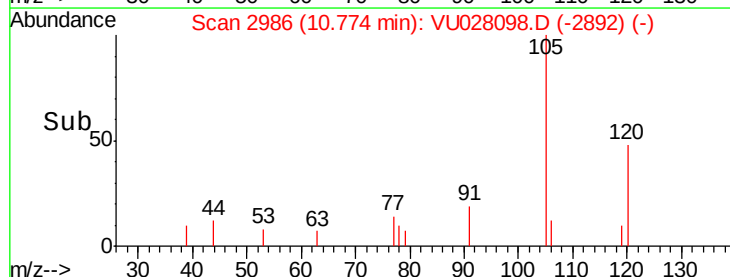
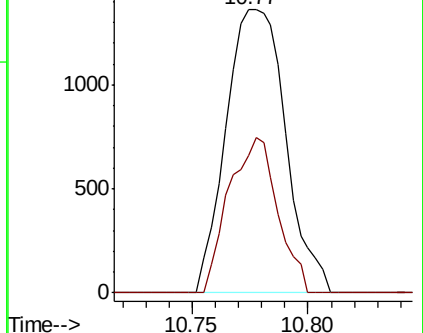
105 100

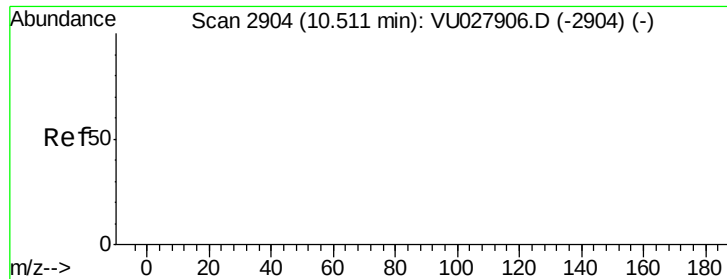
120 45.0 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): VU027906.D (-2972) (-)

Ion 120.00 (119.70 to 120.70): VU028098.D (-2892) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 53.223 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU028098.D

Acq: 13 Nov 2018 17:42

Instrument :

MSVOA_U

ClientSampleId :

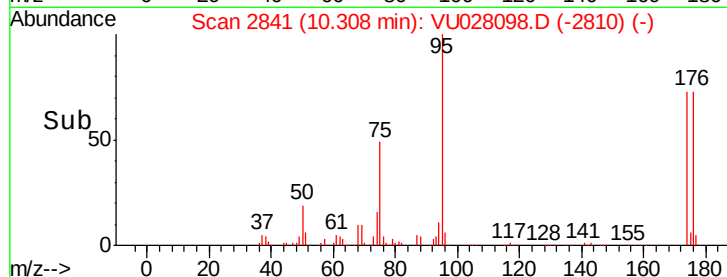
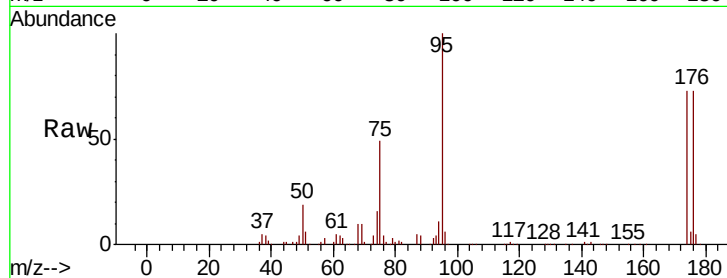
Tot Ion: 75 Resp: 105041

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): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

