

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070718\
 Data File : VU025252.D
 Acq On : 06 Jul 2018 20:06
 Operator : MD/SY
 Sample : J3808-16
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 06 23:31:56 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	199935	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	301700	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	276983	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	142575	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	152241	46.64	ug/l	0.00
Spiked Amount			Recovery	=	93.28%	
35) Dibromofluoromethane	4.89	113	115716	46.21	ug/l	0.00
Spiked Amount			Recovery	=	92.42%	
50) Toluene-d8	7.57	98	430491	47.14	ug/l	0.00
Spiked Amount			Recovery	=	94.28%	
62) 4-Bromofluorobenzene	10.31	95	154332	42.56	ug/l	0.00
Spiked Amount			Recovery	=	85.12%	

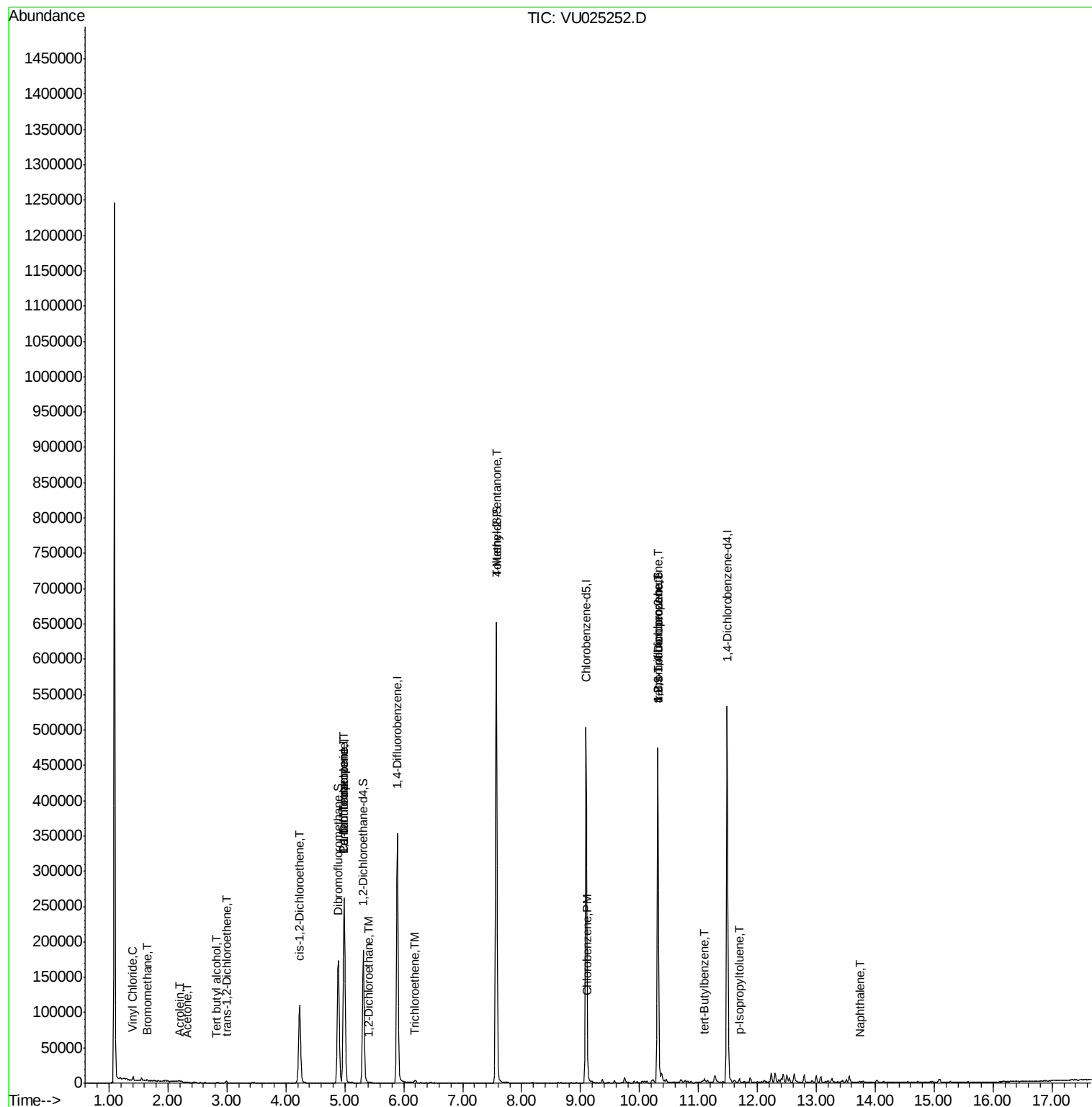
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	3002	1.139	ug/l	97
5) Bromomethane	1.63	94	437	0.343	ug/l	88
6) Chloroethane	1.62	64	127	Below Cal	#	43
11) Tert butyl alcohol	2.82	59	166	0.209	ug/l #	72
13) Acrolein	2.20	56	109	0.261	ug/l #	1
16) Acetone	2.32	43	792	0.452	ug/l #	83
21) trans-1,2-Dichloroethene	2.99	96	957	0.382	ug/l #	82
27) cis-1,2-Dichloroethene	4.23	96	62354	21.631	ug/l	88
31) Cyclohexane	4.99	56	4026	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	14973	4.223	ug/l #	51
38) Carbon Tetrachloride	4.99	117	19548	5.014	ug/l #	17
42) 1,2-Dichloroethane	5.42	62	802	0.208	ug/l #	77
44) Trichloroethene	6.20	130	1403	0.488	ug/l	76
51) 4-Methyl-2-Pentanone	7.57	43	2078	0.495	ug/l #	1
65) Chlorobenzene	9.13	112	2363	0.334	ug/l	95
76) 1,2,3-Trichloropropane	10.31	75	81825	26.067	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	81825	60.331	ug/l #	100
83) tert-Butylbenzene	11.10	119	2171	0.238	ug/l #	78
86) p-Isopropyltoluene	11.69	119	3108	0.304	ug/l	93
95) Naphthalene	13.74	128	126	0.691	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: VU025252.D

Acq: 06 Jul 2018 20:06

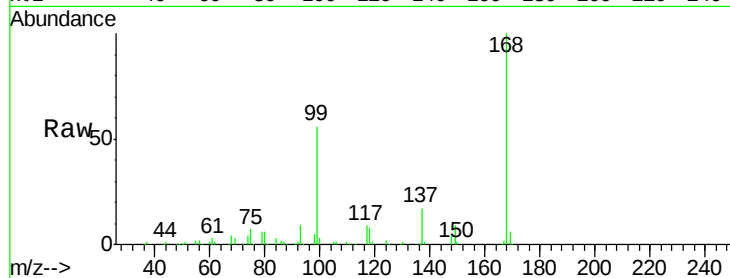
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 199935

Ion Ratio Lower Upper

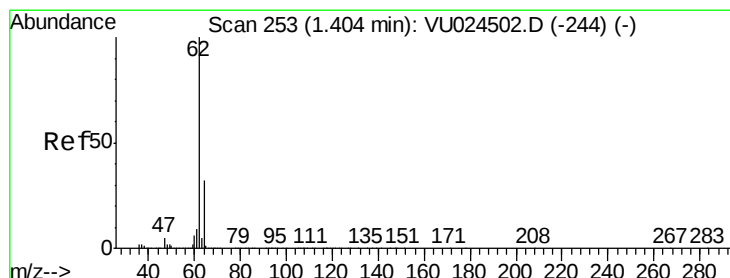
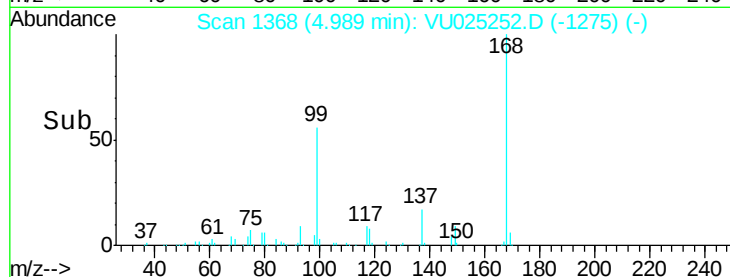
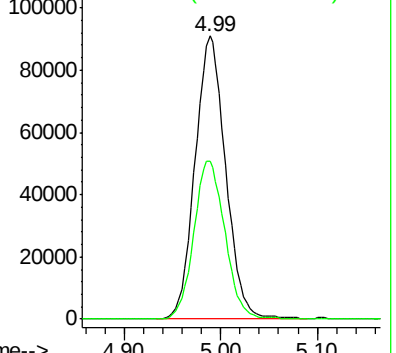
168 100

99 55.9 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#4

Vinyl Chloride

Concen: 1.139 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU025252.D

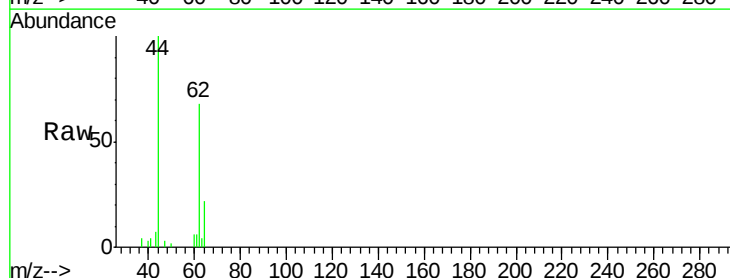
Acq: 06 Jul 2018 20:06

Tgt Ion: 62 Resp: 3002

Ion Ratio Lower Upper

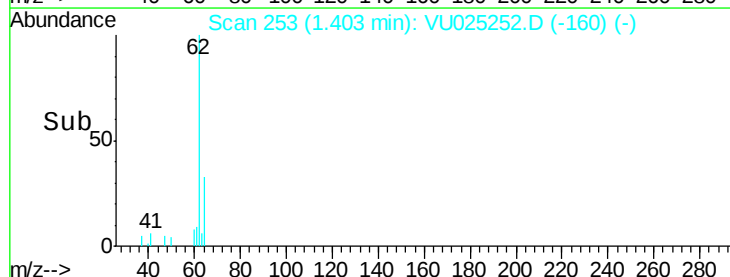
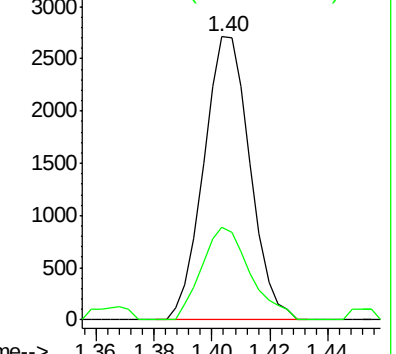
62 100

64 32.9 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: 0.343 ug/l

RT: 1.63 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU025252.D

Acq: 06 Jul 2018 20:06

Instrument :

MSVOA_U

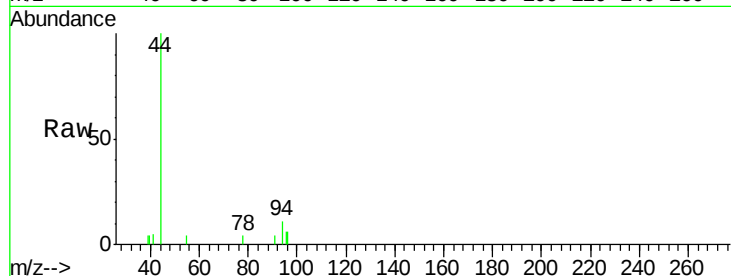
ClientSampled :

Tot Ion: 94 Resp: 437

Ion Ratio Lower Upper

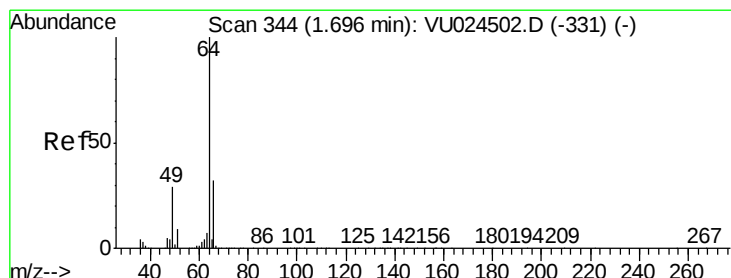
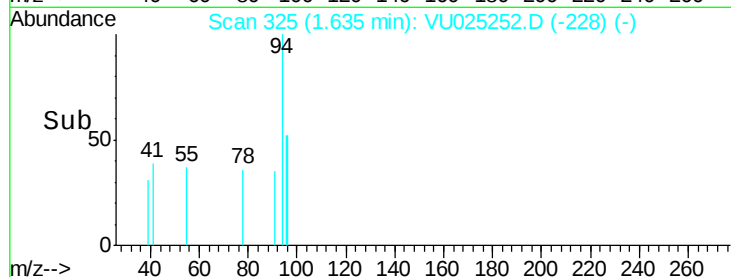
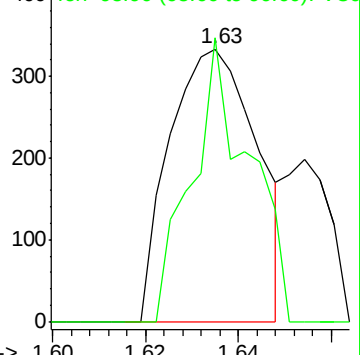
94 100

96 104.2 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU024502.D (-311) (-)

Ion 95.90 (95.60 to 96.60): VU024502.D (-311) (-)



#6

Chloroethane

Concen: Below Cal

RT: 1.62 min Scan# 321

Delta R.T. -0.07 min

Lab File: VU025252.D

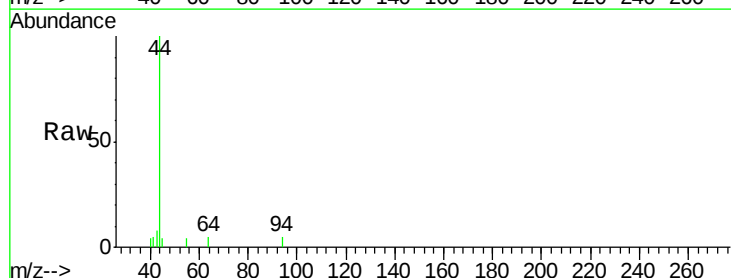
Acq: 06 Jul 2018 20:06

Tgt Ion: 64 Resp: 127

Ion Ratio Lower Upper

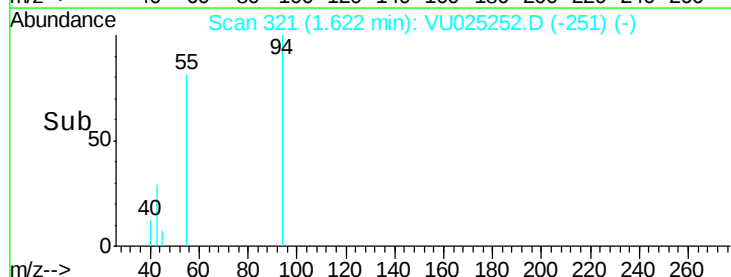
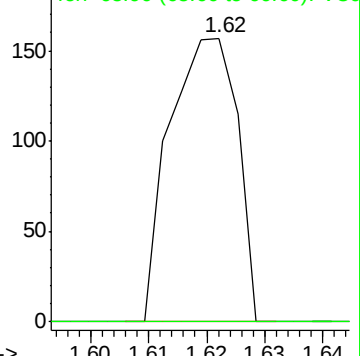
64 100

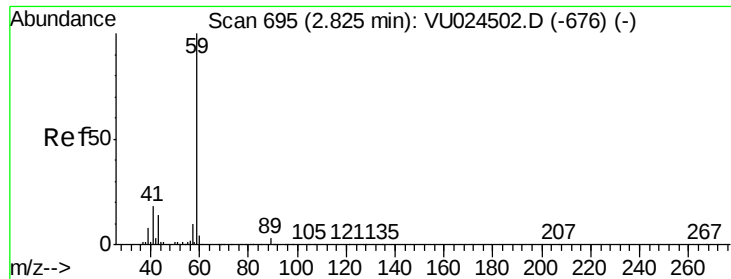
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU024502.D (-331) (-)

Ion 65.90 (65.60 to 66.60): VU024502.D (-331) (-)

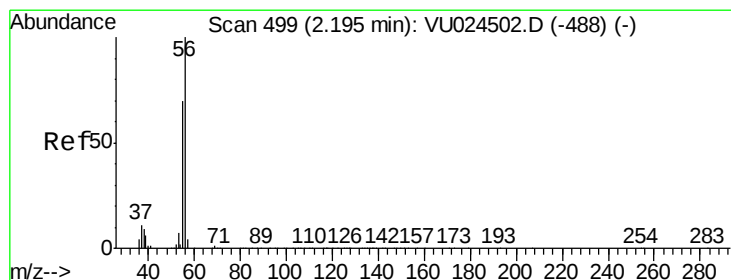
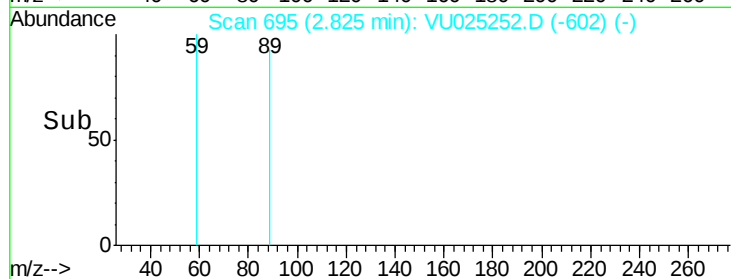
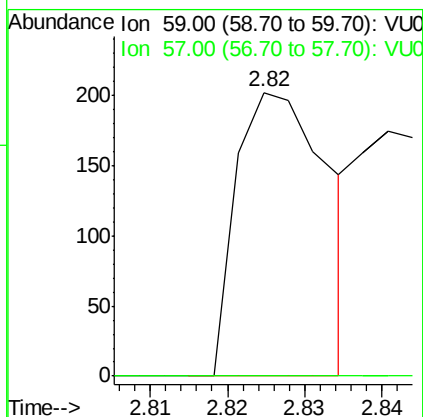
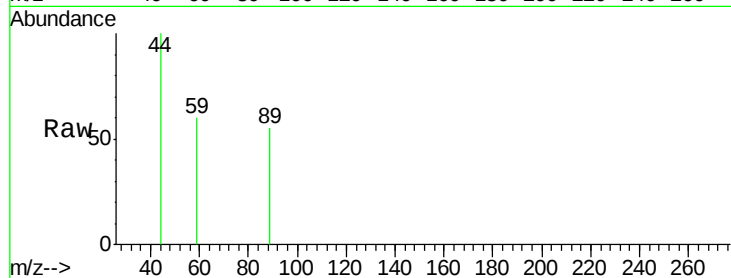




#11
Tert butyl alcohol
Concen: 0.209 ug/l
RT: 2.82 min Scan# 695
Delta R.T. -0.00 min
Lab File: VU025252.D
Acq: 06 Jul 2018 20:06

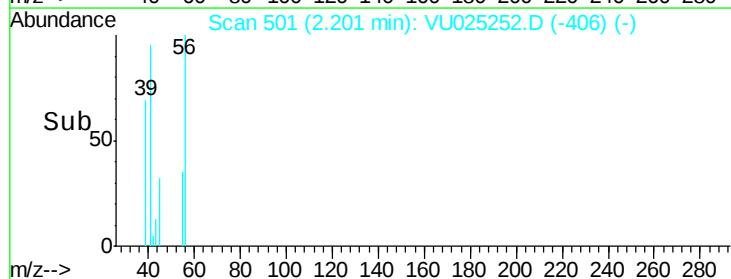
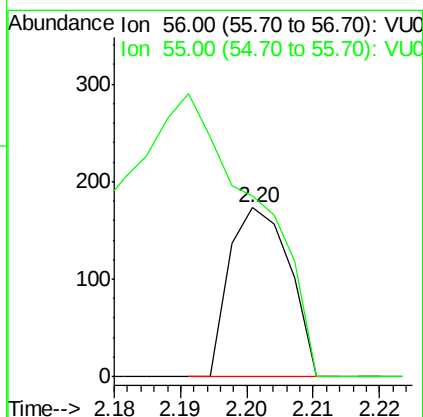
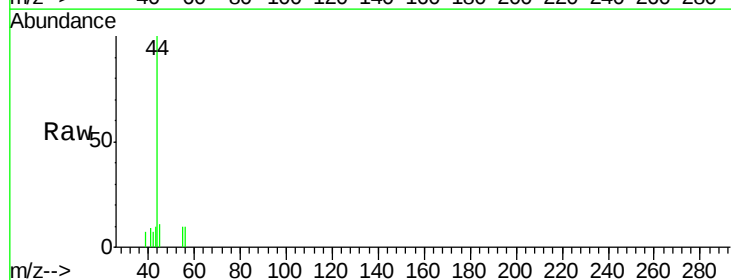
Instrument :
MSVOA_U
ClientSampled :

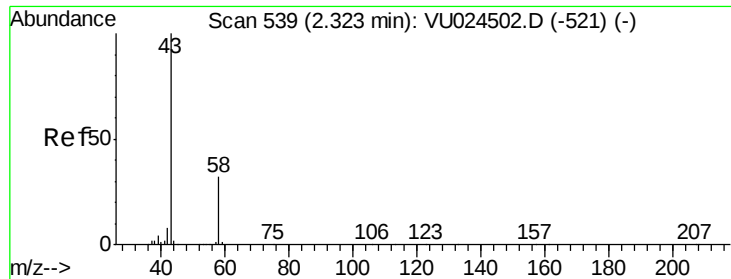
Tot Ion: 59 Resp: 166
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#13
Acrolein
Concen: 0.261 ug/l
RT: 2.20 min Scan# 501
Delta R.T. 0.01 min
Lab File: VU025252.D
Acq: 06 Jul 2018 20:06

Tgt Ion: 56 Resp: 109
Ion Ratio Lower Upper
56 100
55 419.3 58.4 87.6#





#16

Acetone

Concen: 0.452 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025252.D

Acq: 06 Jul 2018 20:06

Instrument :

MSVOA_U

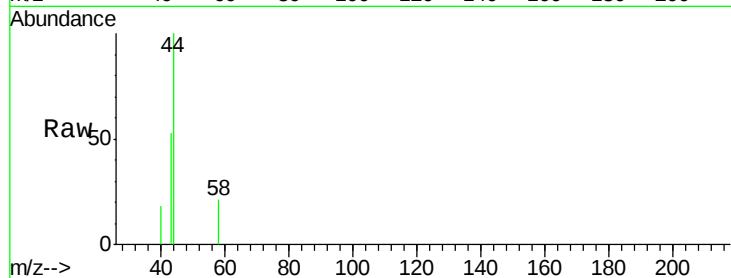
ClientSampled :

Tot Ion: 43 Resp: 792

Ion Ratio Lower Upper

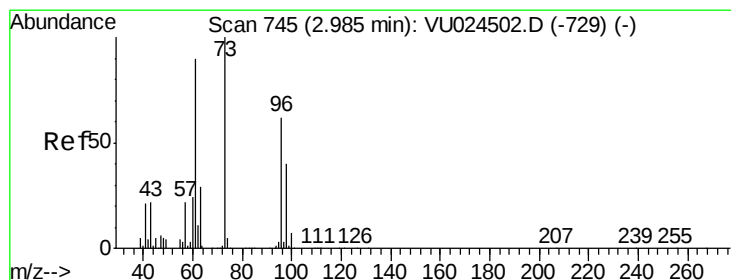
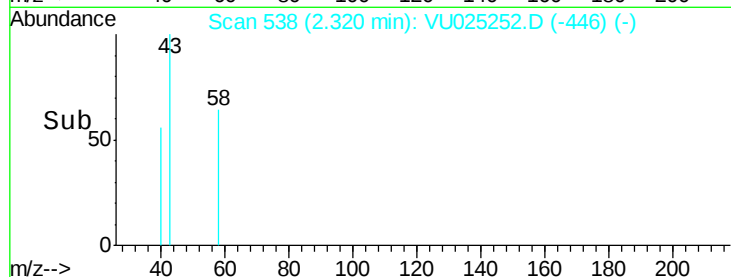
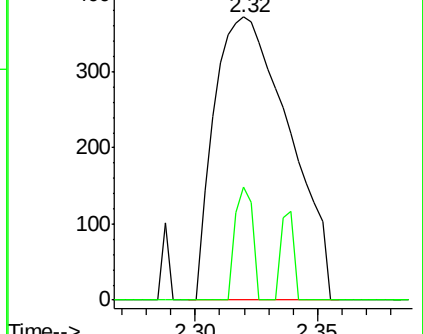
43 100

58 39.8 24.4 36.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#21

trans-1,2-Dichloroethene

Concen: 0.382 ug/l

RT: 2.99 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU025252.D

Acq: 06 Jul 2018 20:06

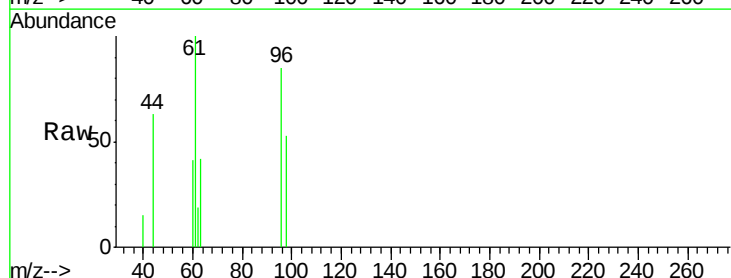
Tgt Ion: 96 Resp: 957

Ion Ratio Lower Upper

96 100

61 117.7 119.4 179.0#

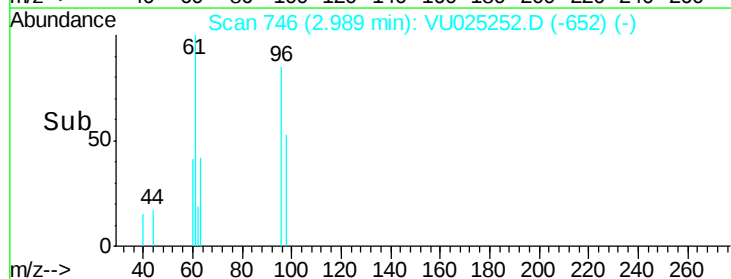
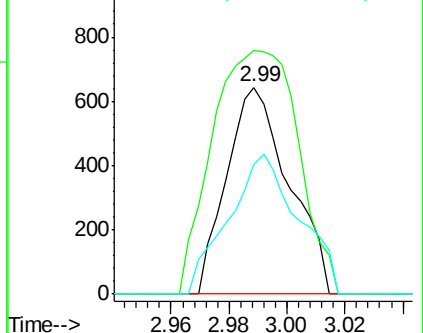
98 62.9 51.1 76.7

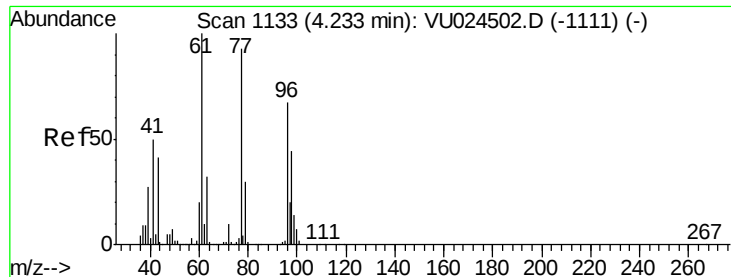


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

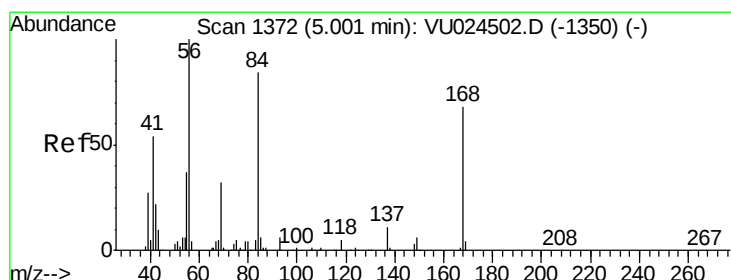
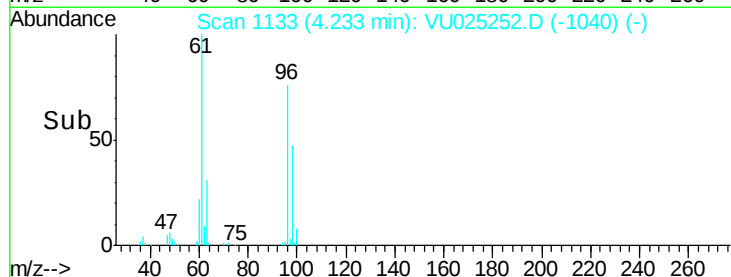
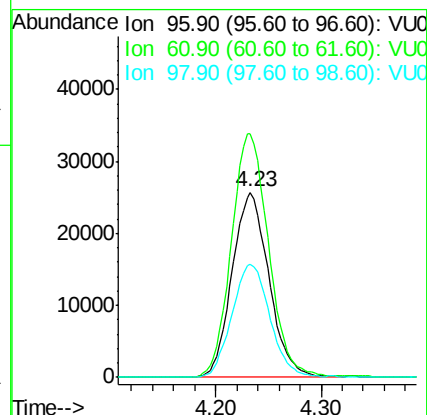
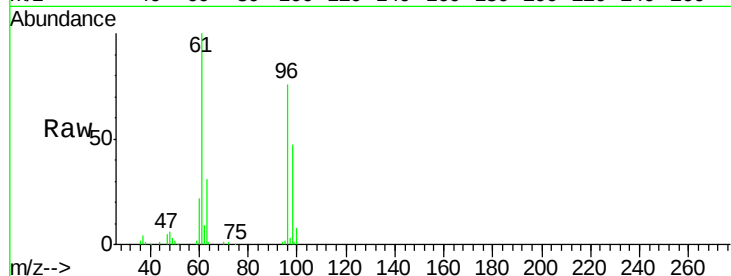




#27
 cis-1,2-Dichloroethene
 Concen: 21.631 ug/l
 RT: 4.23 min Scan# 1133
 Delta R.T. -0.00 min
 Lab File: VU025252.D
 Acq: 06 Jul 2018 20:06

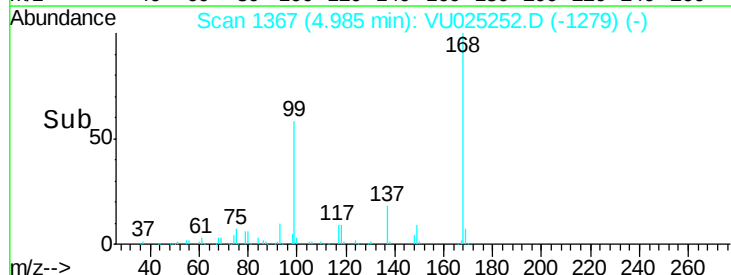
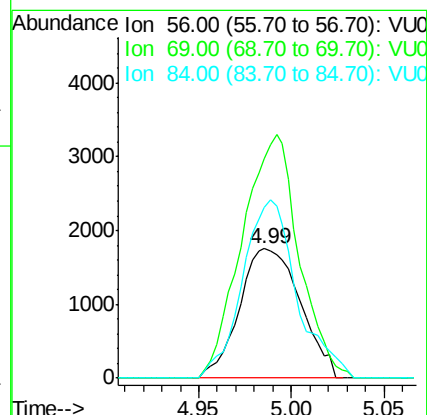
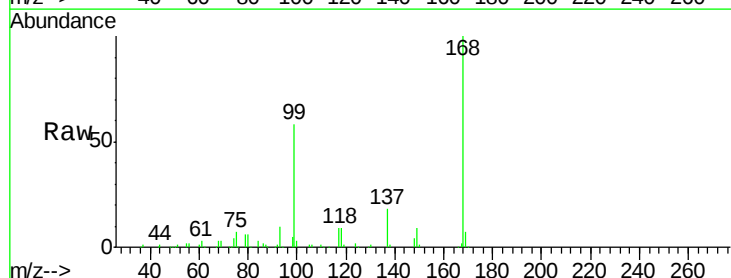
Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 96 Resp: 62354
 Ion Ratio Lower Upper
 96 100
 61 132.5 0.0 306.6
 98 62.9 0.0 128.8



#31
 Cyclohexane
 Concen: Below Cal
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.02 min
 Lab File: VU025252.D
 Acq: 06 Jul 2018 20:06

Tgt Ion: 56 Resp: 4026
 Ion Ratio Lower Upper
 56 100
 69 169.1 24.8 37.2#
 84 132.1 65.2 97.8#

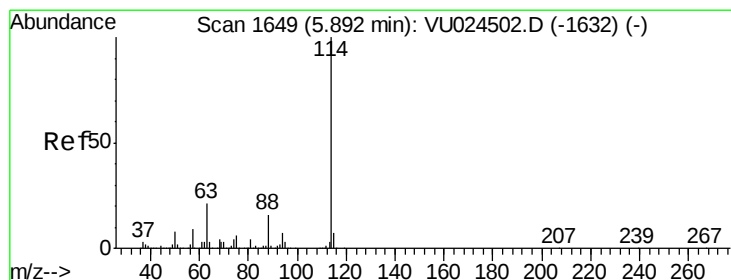
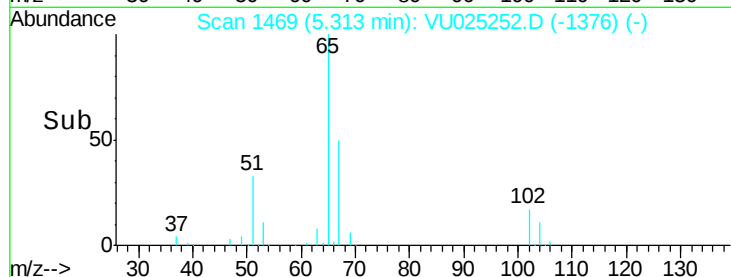
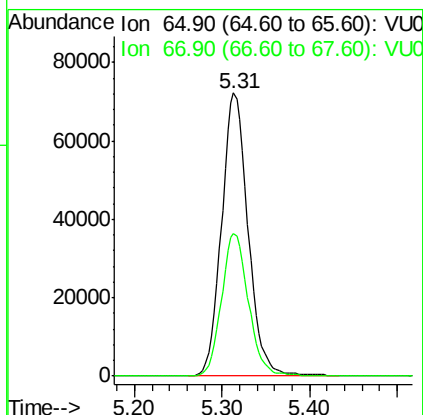
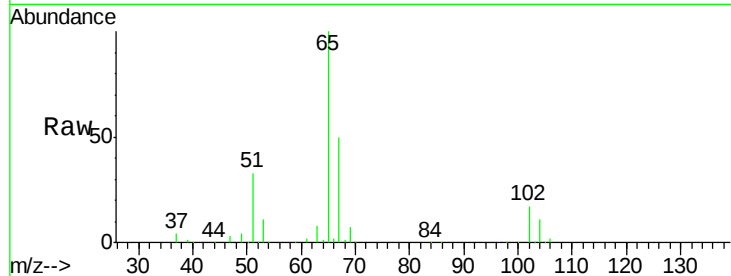




#33
 1,2-Dichloroethane-d4
 Concen: 46.643 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VU025252.D
 Acq: 06 Jul 2018 20:06

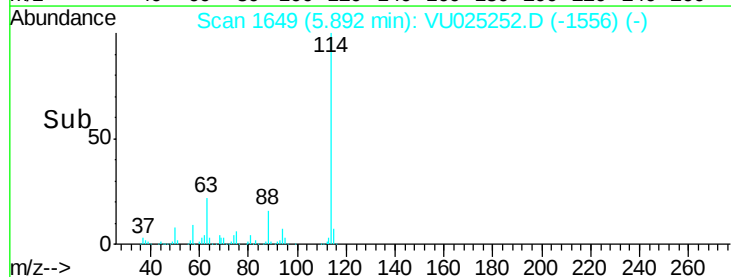
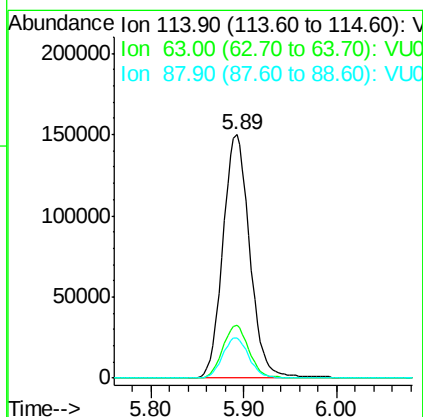
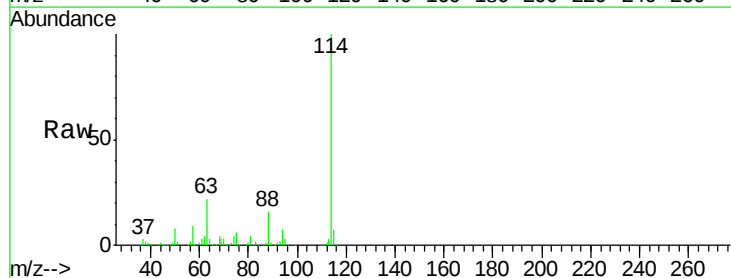
Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 65 Resp: 152241
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU025252.D
 Acq: 06 Jul 2018 20:06

Tgt Ion: 114 Resp: 301700
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 45.4
 88 16.4 0.0 31.0

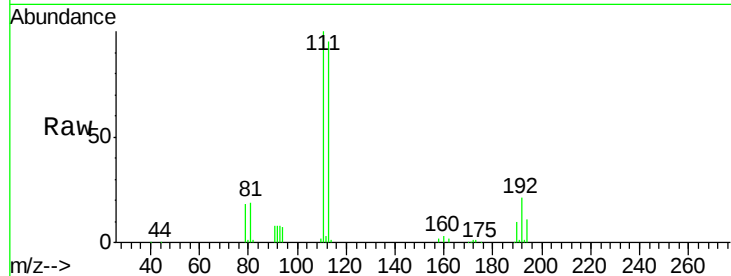




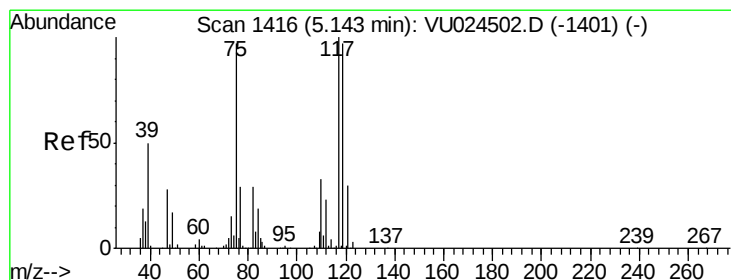
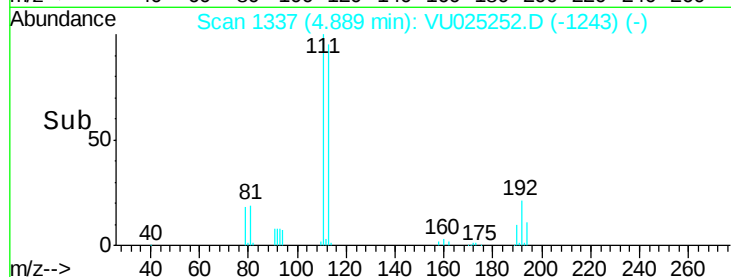
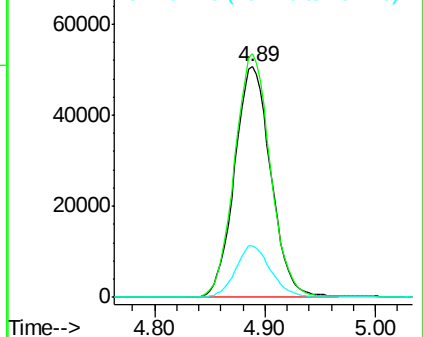
#35
 Dibromofluoromethane
 Concen: 46.215 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025252.D
 Acq: 06 Jul 2018 20:06

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.2	123.4
192	21.7	16.2	24.4

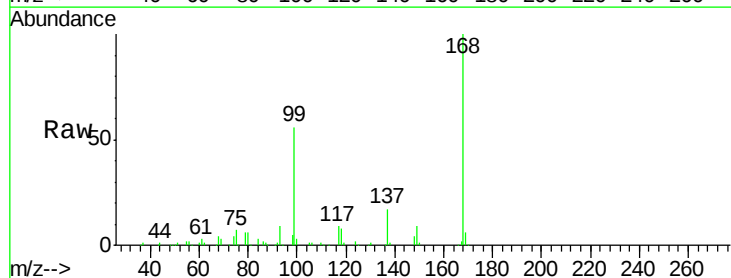


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

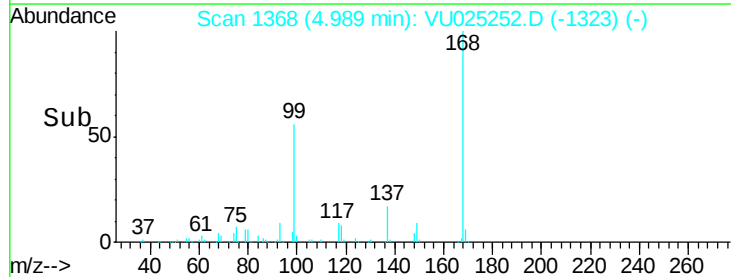
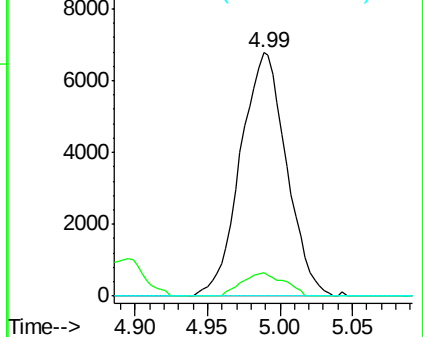


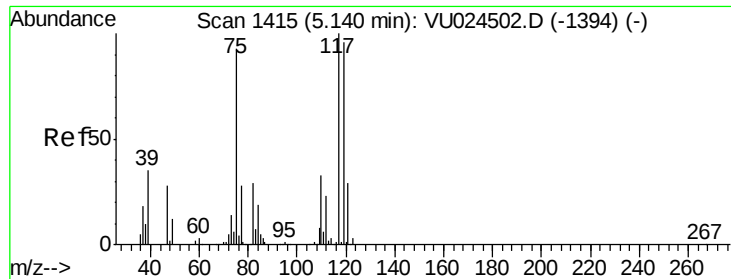
#36
 1,1-Dichloropropene
 Concen: 4.223 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025252.D
 Acq: 06 Jul 2018 20:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	17.0	50.9#
77	0.0	24.2	36.4#



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: 5.014 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. -0.15 min

Lab File: VU025252.D

Acq: 06 Jul 2018 20:06

Instrument :

MSVOA_U

ClientSampleId :

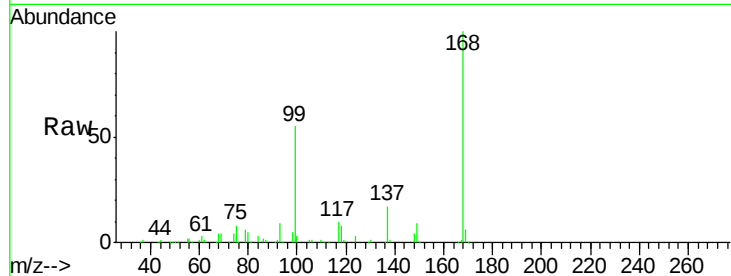
Tot Ion:117 Resp: 19548

Ion Ratio Lower Upper

117 100

119 5.7 76.1 114.1#

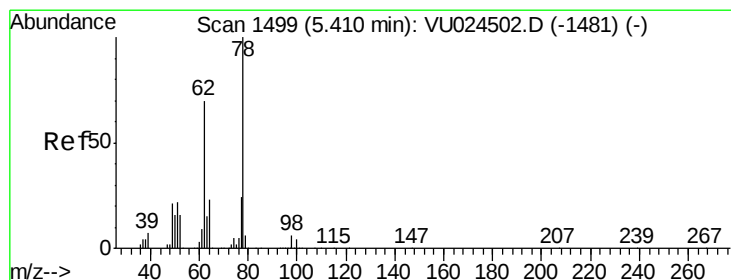
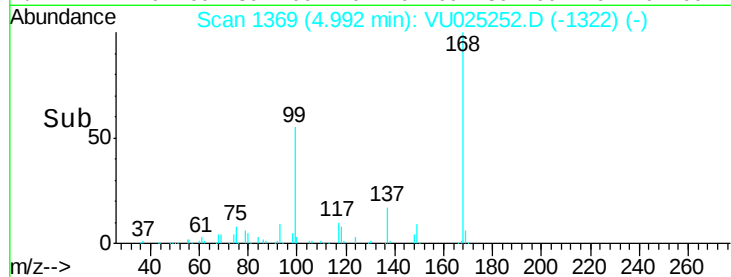
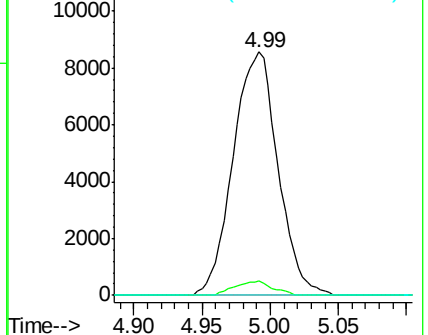
121 0.0 23.7 35.5#



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



#42

1,2-Dichloroethane

Concen: 0.208 ug/l

RT: 5.42 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VU025252.D

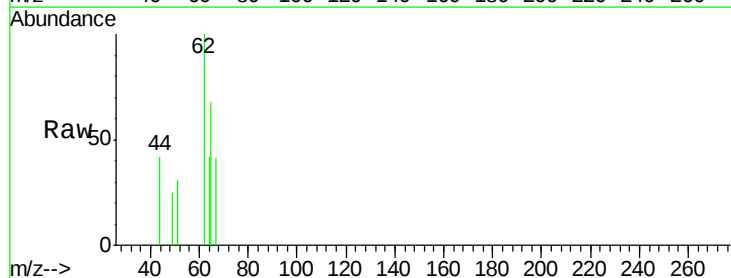
Acq: 06 Jul 2018 20:06

Tgt Ion: 62 Resp: 802

Ion Ratio Lower Upper

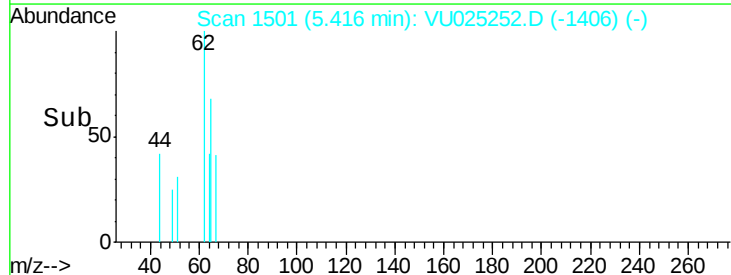
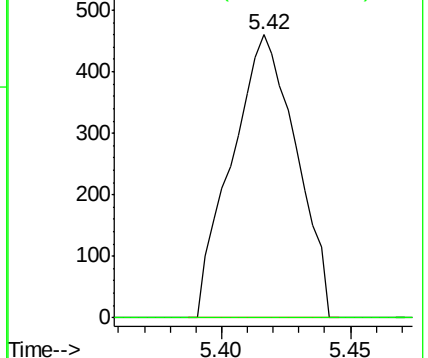
62 100

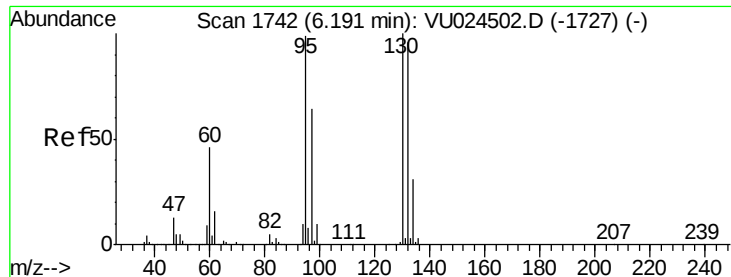
98 0.0 0.0 16.6



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#44

Trichloroethene

Concen: 0.488 ug/l

RT: 6.20 min Scan# 1744

Delta R.T. 0.01 min

Lab File: VU025252.D

Acq: 06 Jul 2018 20:06

Instrument :

MSVOA_U

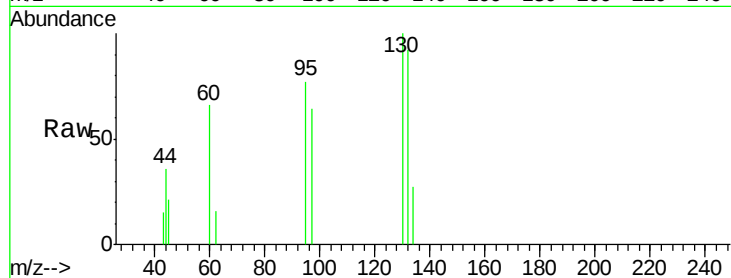
ClientSampleId :

Tot Ion:130 Resp: 1403

Ion Ratio Lower Upper

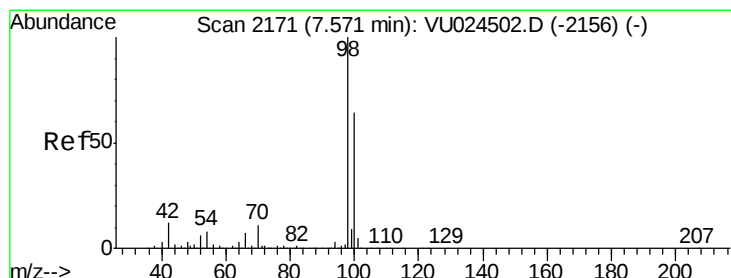
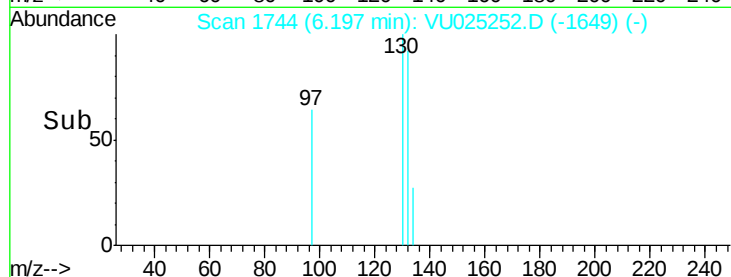
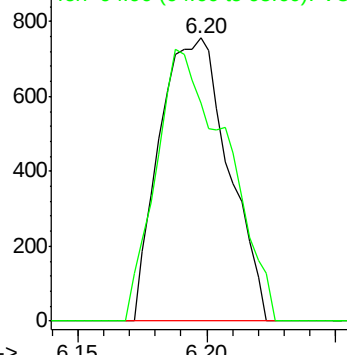
130 100

95 76.9 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0



#50

Toluene-d8

Concen: 47.135 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU025252.D

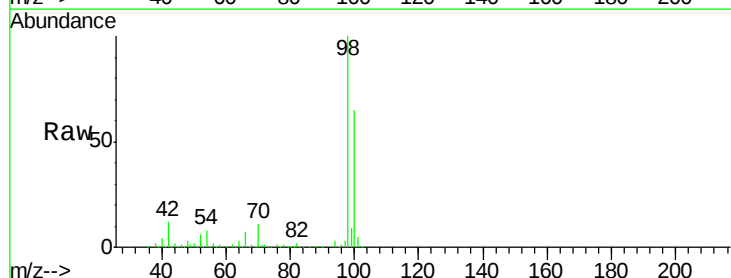
Acq: 06 Jul 2018 20:06

Tgt Ion: 98 Resp: 430491

Ion Ratio Lower Upper

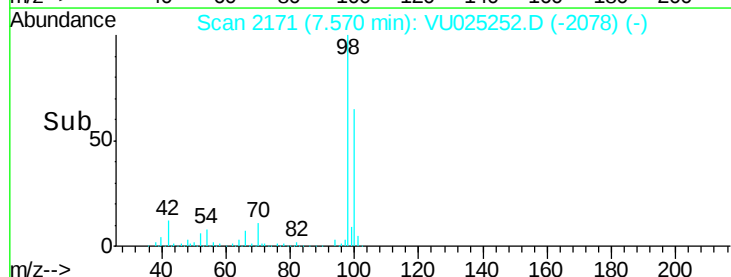
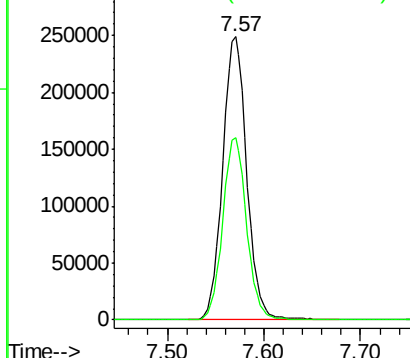
98 100

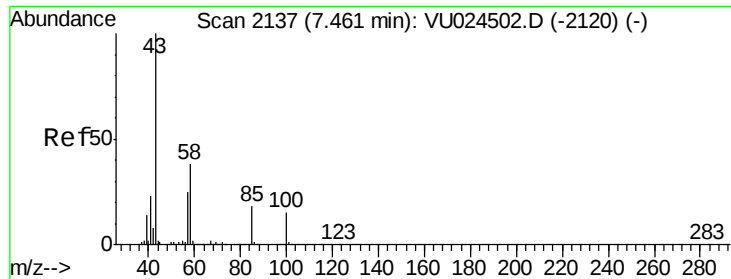
100 63.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#51

4-Methyl-2-Pentanone

Concen: 0.495 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.11 min

Lab File: VU025252.D

Acq: 06 Jul 2018 20:06

Instrument :

MSVOA_U

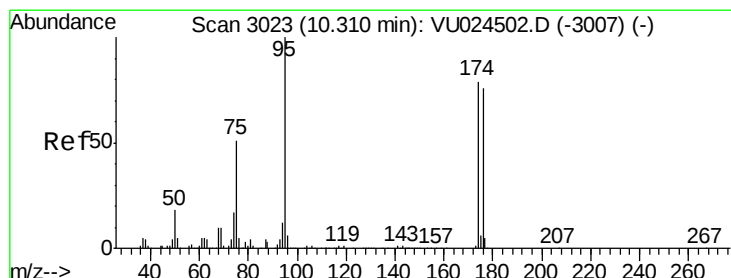
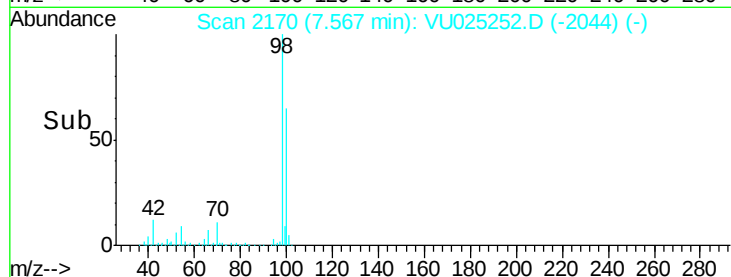
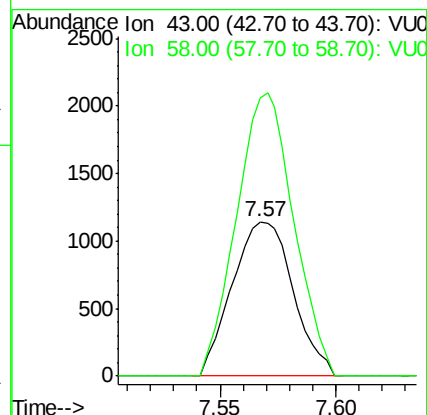
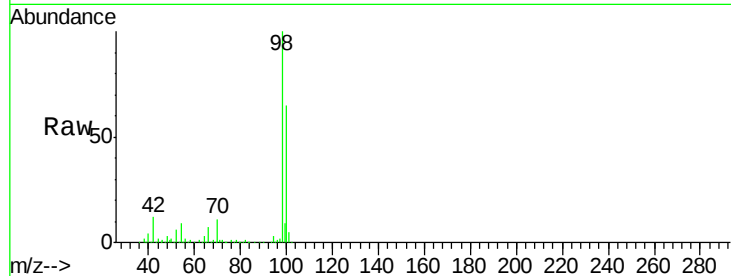
ClientSampleId :

Tot Ion: 43 Resp: 2078

Ion Ratio Lower Upper

43 100

58 172.4 30.0 45.0#



#62

4-Bromofluorobenzene

Concen: 42.560 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU025252.D

Acq: 06 Jul 2018 20:06

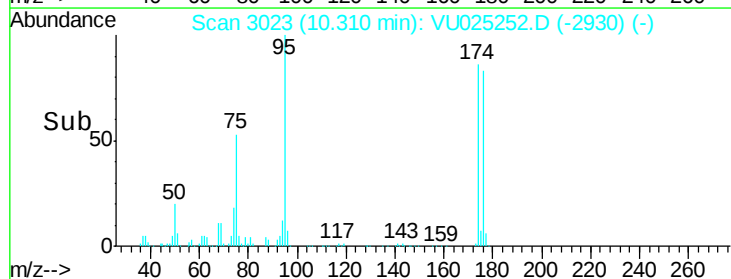
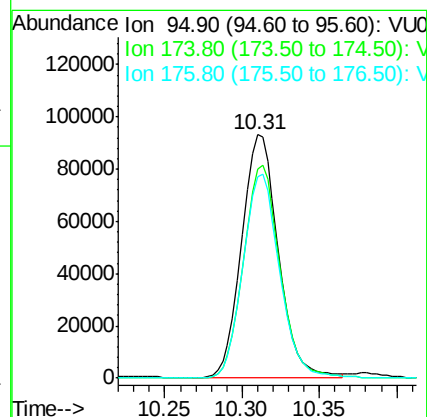
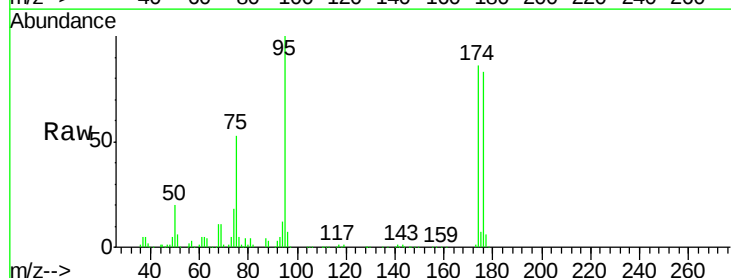
Tgt Ion: 95 Resp: 154332

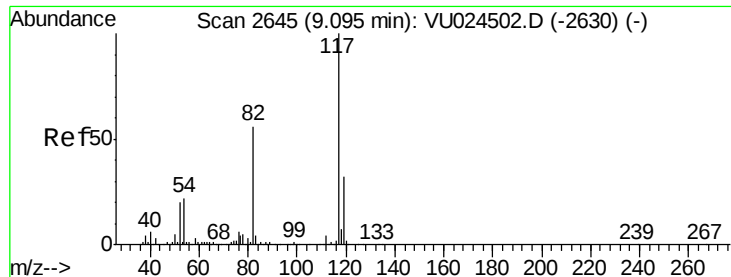
Ion Ratio Lower Upper

95 100

174 87.1 0.0 165.8

176 83.7 0.0 159.4

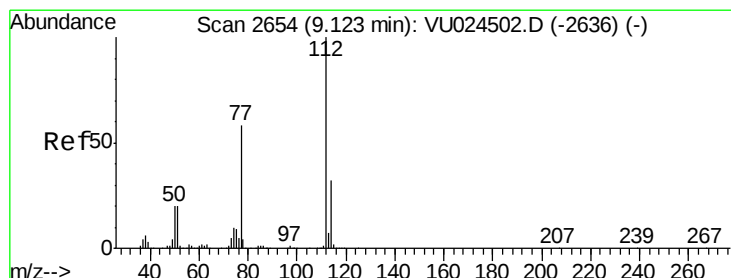
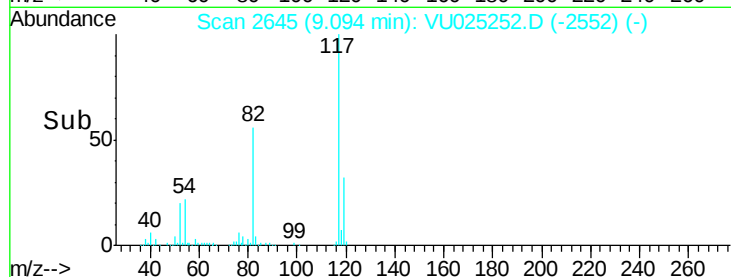
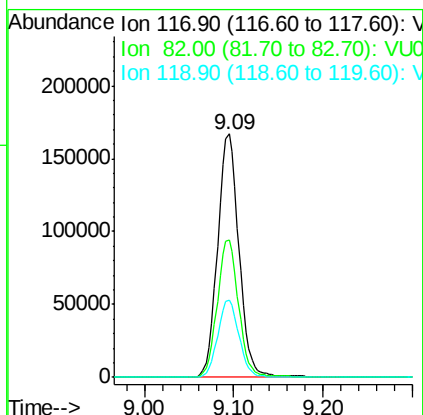
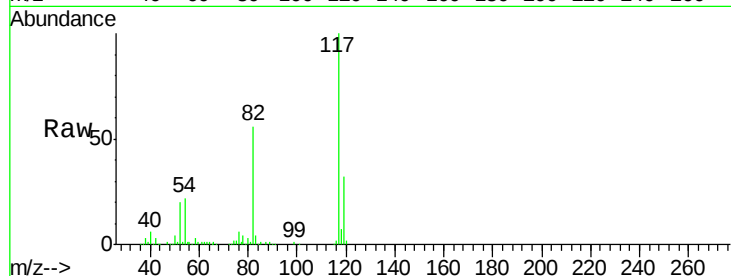




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU025252.D
Acq: 06 Jul 2018 20:06

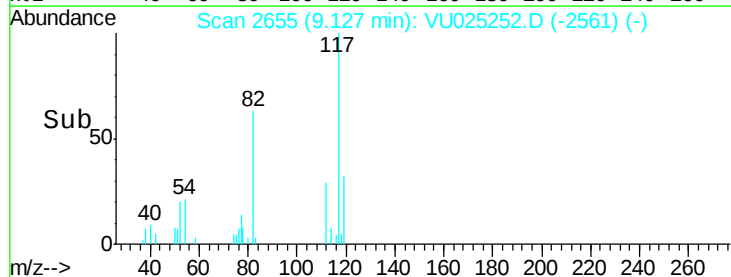
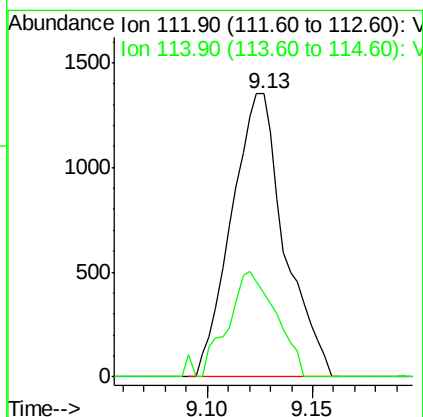
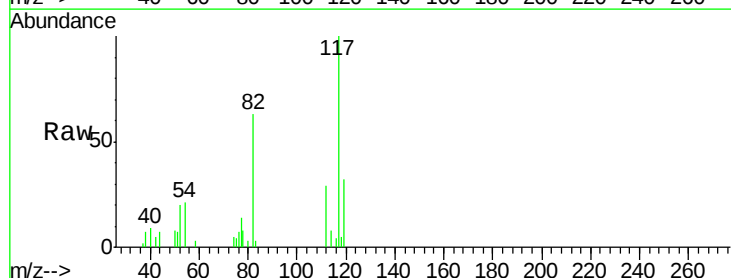
Instrument :
MSVOA_U
ClientSampled :

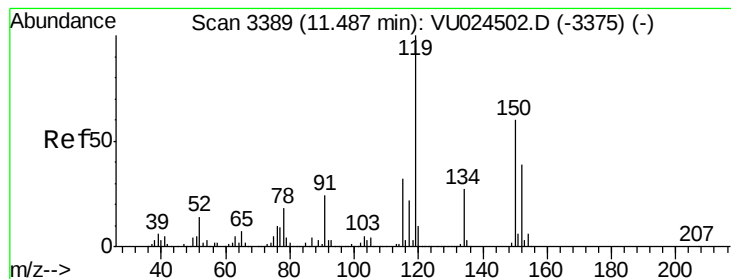
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.5	44.3	66.5
119	31.9	25.4	38.2



#65
Chlorobenzene
Concen: 0.334 ug/l
RT: 9.13 min Scan# 2655
Delta R.T. 0.00 min
Lab File: VU025252.D
Acq: 06 Jul 2018 20:06

Tgt Ion	Ratio	Lower	Upper
112	100		
114	29.4	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU025252.D

Acq: 06 Jul 2018 20:06

Instrument :

MSVOA_U

ClientSampleId :

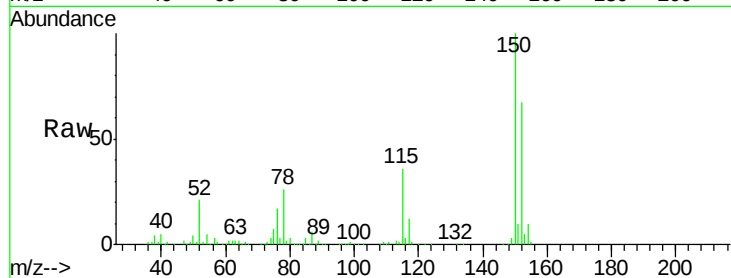
Tot Ion:152 Resp: 142575

Ion Ratio Lower Upper

152 100

115 56.6 43.0 129.0

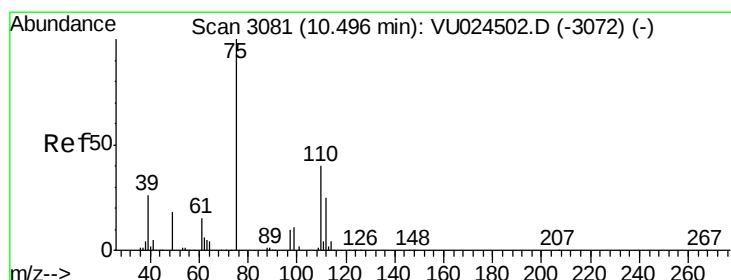
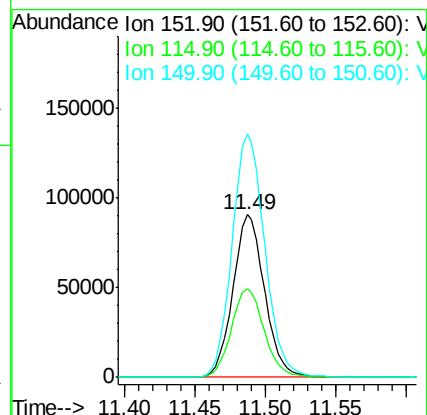
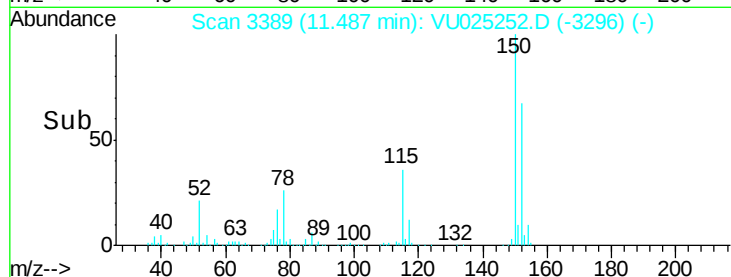
150 154.5 0.0 354.0



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: 26.067 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025252.D

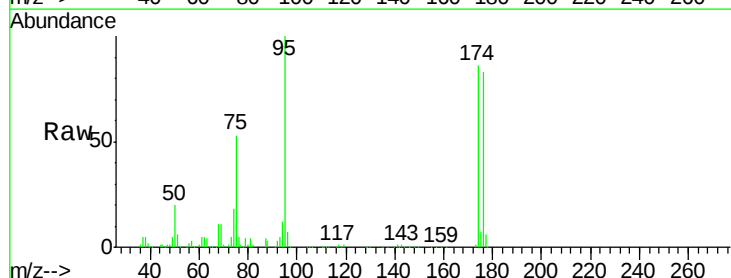
Acq: 06 Jul 2018 20:06

Tgt Ion: 75 Resp: 81825

Ion Ratio Lower Upper

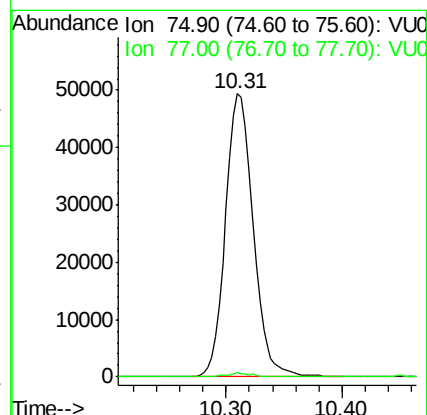
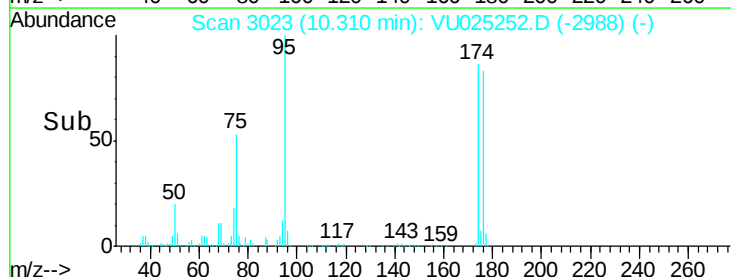
75 100

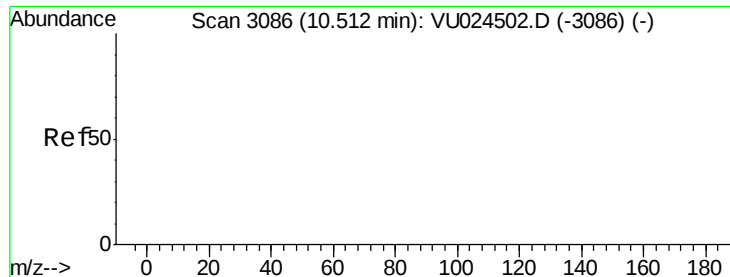
77 1.2 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

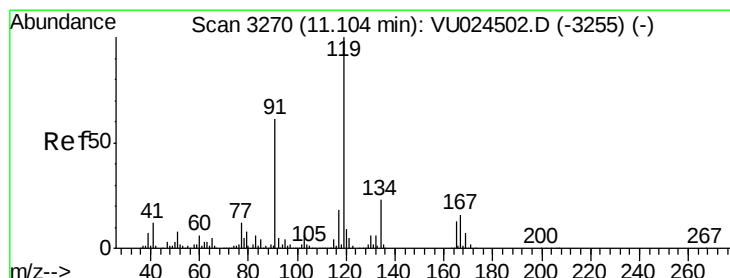
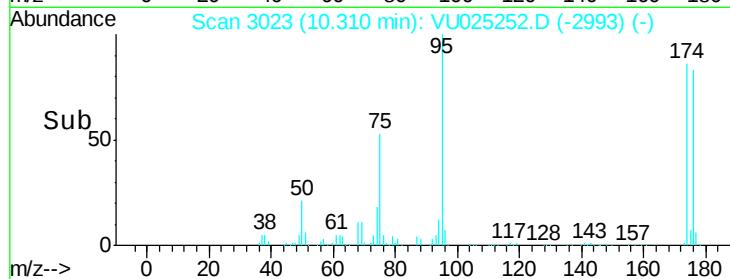
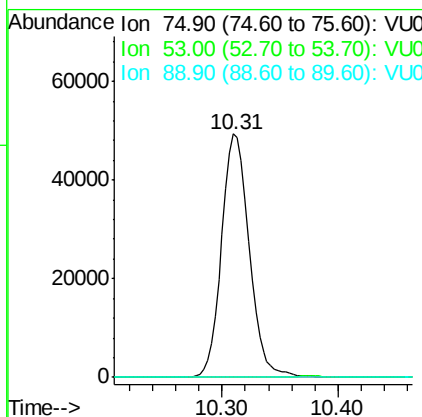
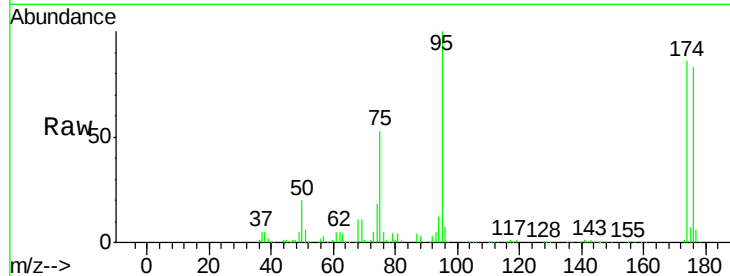




#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.331 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.20 min
 Lab File: VU025252.D
 Acq: 06 Jul 2018 20:06

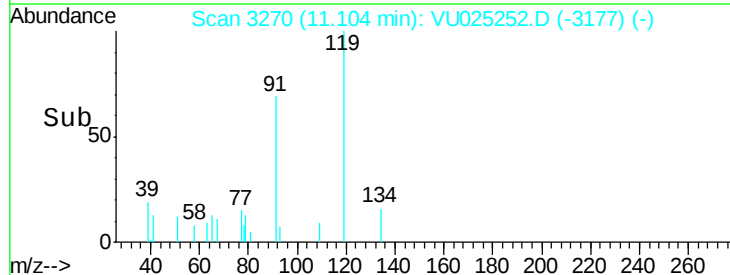
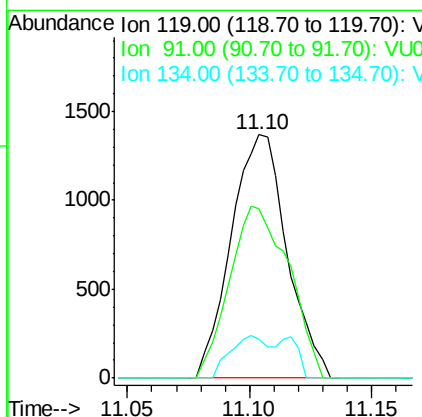
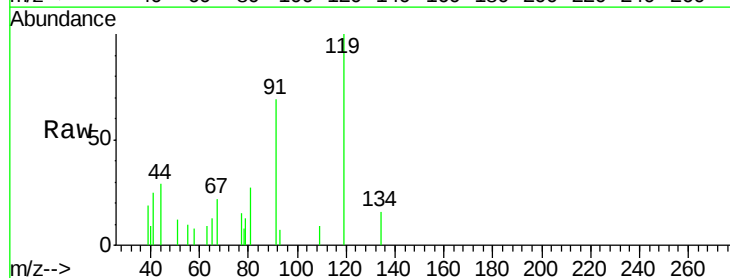
Instrument :
 MSVOA_U
 ClientSampleId :

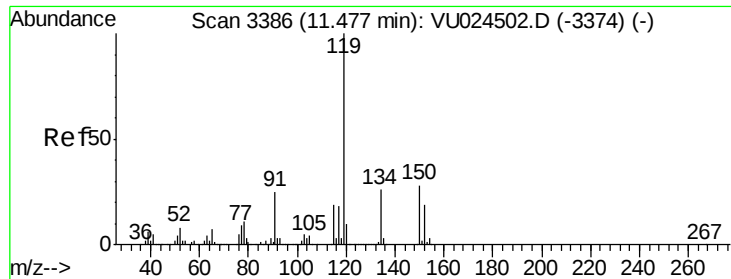
Tot Ion: 75 Resp: 81825
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0



#83
 tert-Butylbenzene
 Concen: 0.238 ug/l
 RT: 11.10 min Scan# 3270
 Delta R.T. -0.00 min
 Lab File: VU025252.D
 Acq: 06 Jul 2018 20:06

Tgt Ion: 119 Resp: 2171
 Ion Ratio Lower Upper
 119 100
 91 75.2 29.7 89.1
 134 11.1 11.6 34.7#

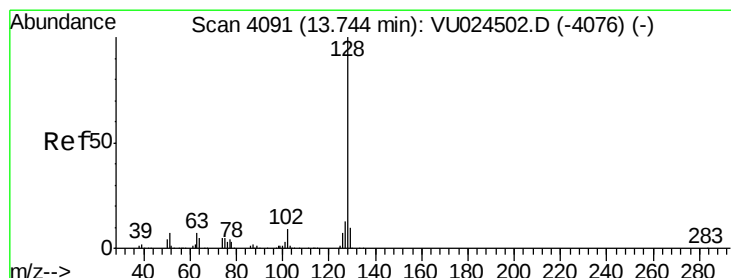
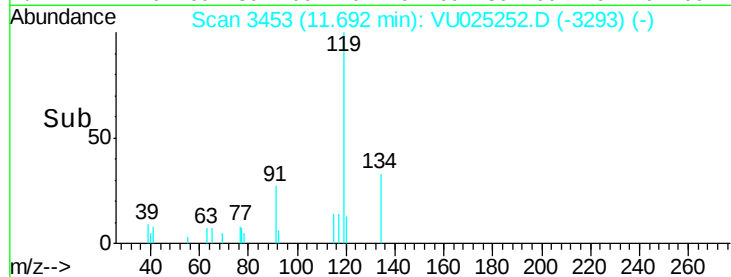
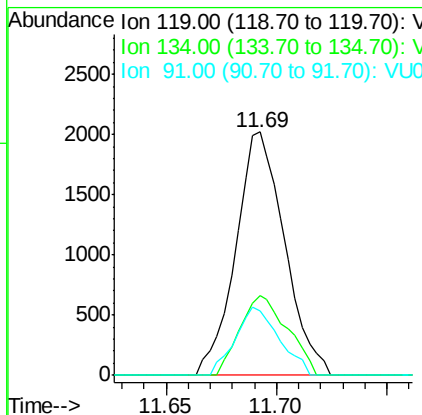
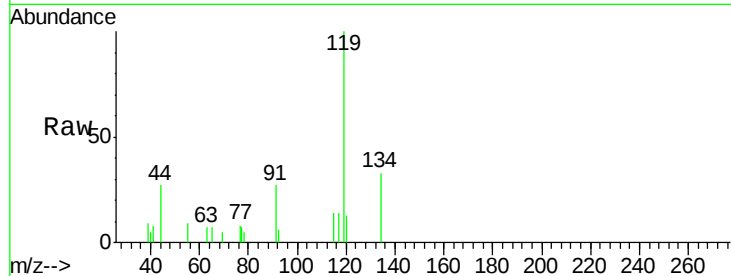




#86
 p-Isopropyltoluene
 Concen: 0.304 ug/l
 RT: 11.69 min Scan# 3453
 Delta R.T. 0.22 min
 Lab File: VU025252.D
 Acq: 06 Jul 2018 20:06

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion:119 Resp: 3108
 Ion Ratio Lower Upper
 119 100
 134 31.9 12.9 38.6
 91 25.2 12.0 36.1



#95
 Naphthalene
 Concen: 0.691 ug/l
 RT: 13.74 min Scan# 4089
 Delta R.T. -0.01 min
 Lab File: VU025252.D
 Acq: 06 Jul 2018 20:06

Tgt Ion:128 Resp: 126
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 16.0#
 129 0.0 8.6 12.8#

