

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062318\
 Data File : VU024850.D
 Acq On : 22 Jun 2018 22:40
 Operator : MD/SY
 Sample : J3662-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 23 02:17:08 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	195903	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	299173	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	275210	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	151516	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	142740	44.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.26%	
35) Dibromofluoromethane	4.89	113	115174	46.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.78%	
50) Toluene-d8	7.57	98	437056	48.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.52%	
62) 4-Bromofluorobenzene	10.31	95	159669	44.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.80%	

Target Compounds

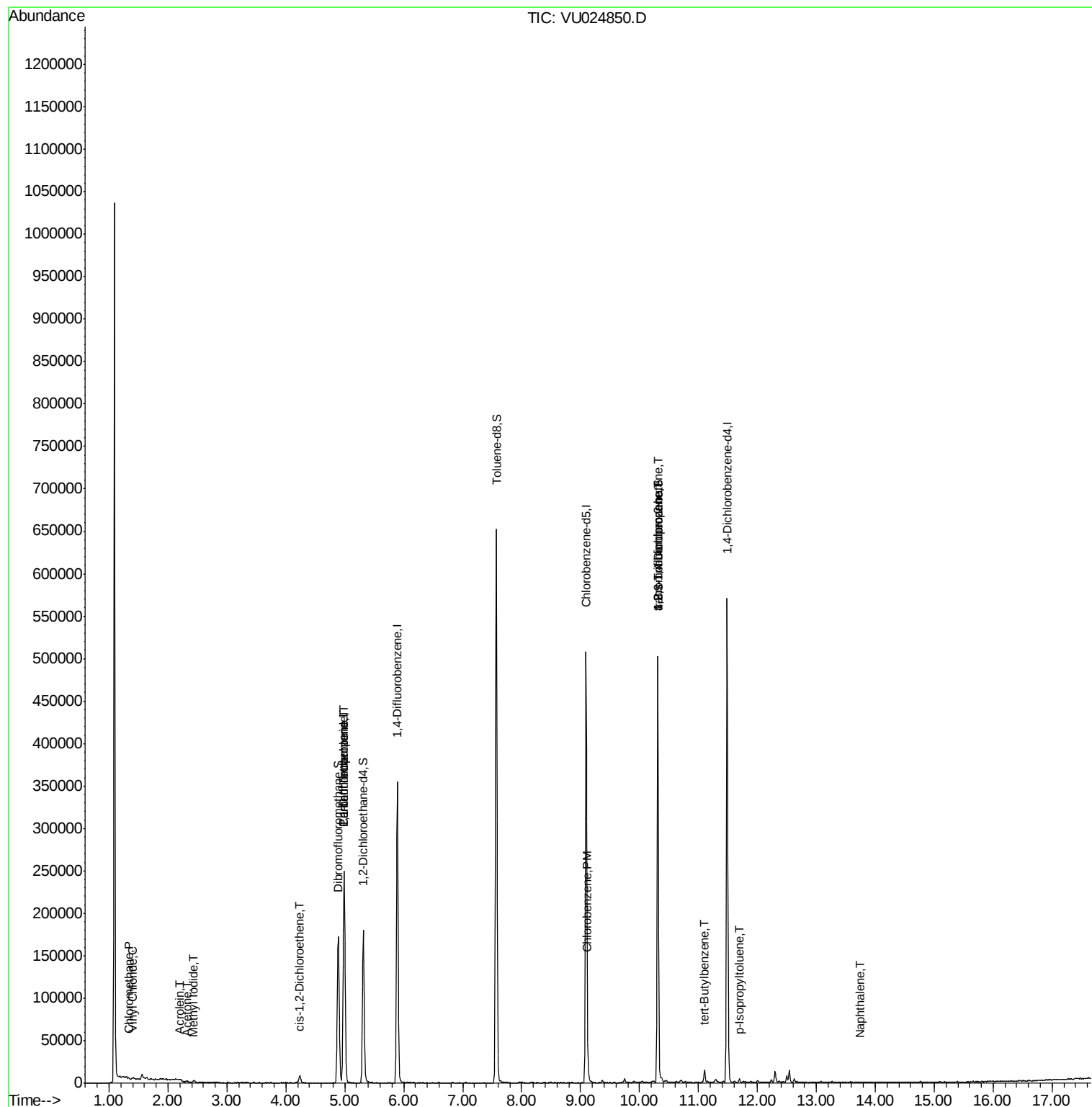
						Qvalue
3) Chloromethane	1.33	50	809	0.32	ug/l	99
4) Vinyl Chloride	1.40	62	1026	0.40	ug/l #	67
6) Chloroethane	1.76	64	21	Below Cal	#	43
10) Methyl Iodide	2.42	142	74	5.32	ug/l #	79
13) Acrolein	2.20	56	88	0.22	ug/l #	1
16) Acetone	2.32	43	1683	0.98	ug/l #	84
27) cis-1,2-Dichloroethene	4.24	96	4673	1.65	ug/l	86
31) Cyclohexane	4.99	56	3944	Below Cal	#	13
36) 1,1-Dichloropropene	4.99	75	14525	4.13	ug/l #	50
38) Carbon Tetrachloride	4.99	117	18026	4.66	ug/l #	16
65) Chlorobenzene	9.12	112	8767	1.25	ug/l	96
76) 1,2,3-Trichloropropane	10.31	75	83387	25.00	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	83387	57.85	ug/l #	100
83) tert-Butylbenzene	11.10	119	7006	0.72	ug/l	89
86) p-Isopropyltoluene	11.69	119	2633	0.24	ug/l	96
95) Naphthalene	13.76	128	181	0.70	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU024850.D

Acq: 22 Jun 2018 22:40

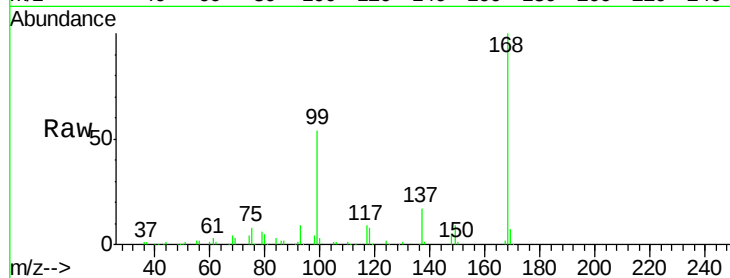
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 195903

Ion Ratio Lower Upper

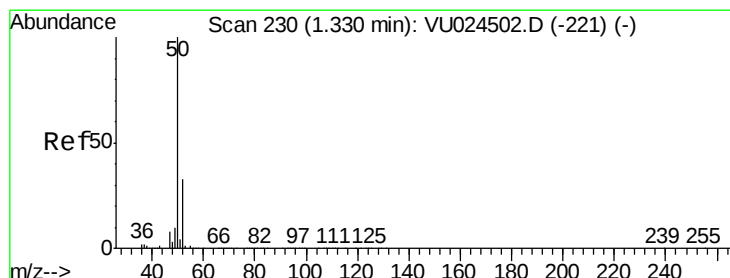
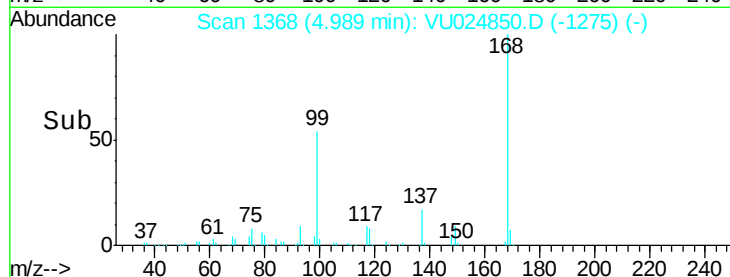
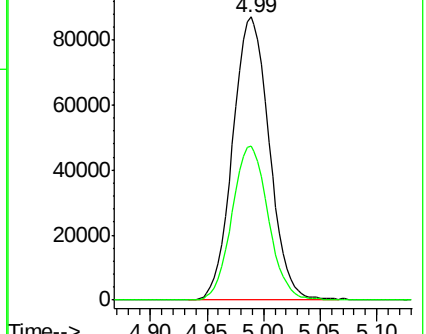
168 100

99 54.3 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024850.D (-1351) (-)

Ion 98.90 (98.60 to 99.60): VU024850.D (-1351) (-)



#3

Chloromethane

Concen: 0.32 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU024850.D

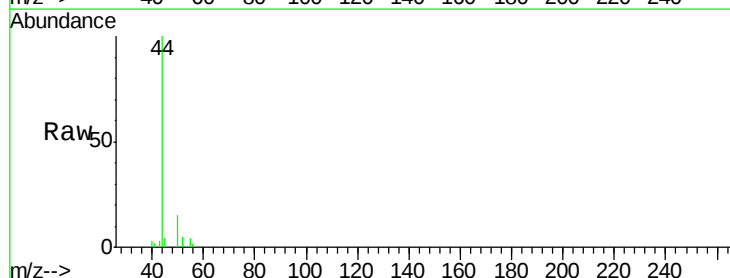
Acq: 22 Jun 2018 22:40

Tgt Ion: 50 Resp: 809

Ion Ratio Lower Upper

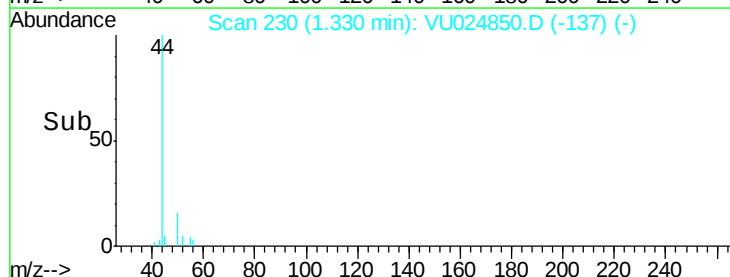
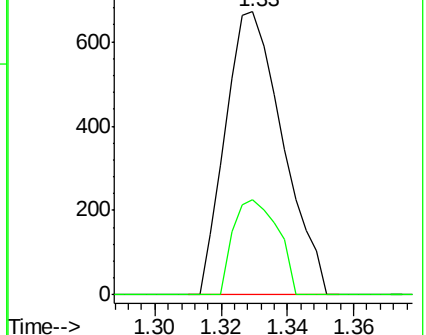
50 100

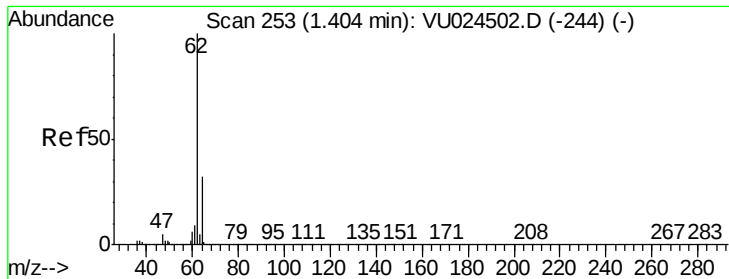
52 33.8 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024850.D (-137) (-)

Ion 51.90 (51.60 to 52.60): VU024850.D (-137) (-)





#4

Vinyl Chloride

Concen: 0.40 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU024850.D

Acq: 22 Jun 2018 22:40

Instrument :

MSVOA_U

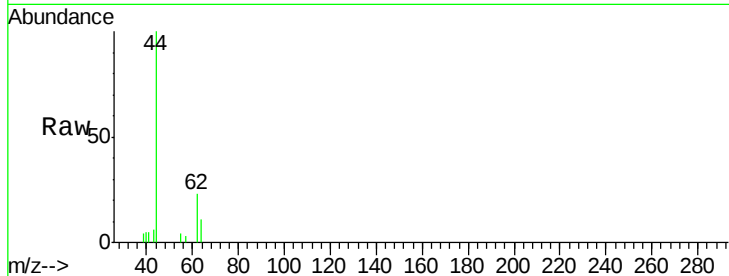
ClientSampled :

Tot Ion: 62 Resp: 1026

Ion Ratio Lower Upper

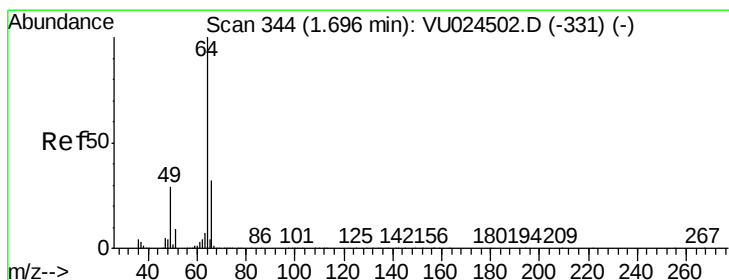
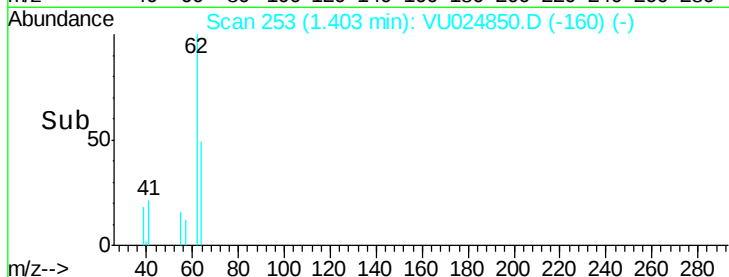
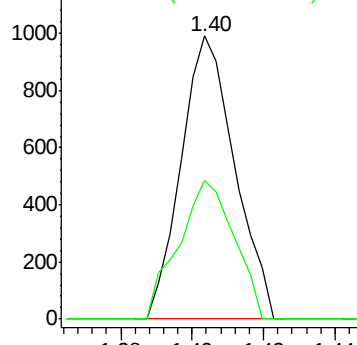
62 100

64 49.1 24.8 37.2#



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0



#6

Chloroethane

Concen: Below Cal

RT: 1.76 min Scan# 365

Delta R.T. 0.07 min

Lab File: VU024850.D

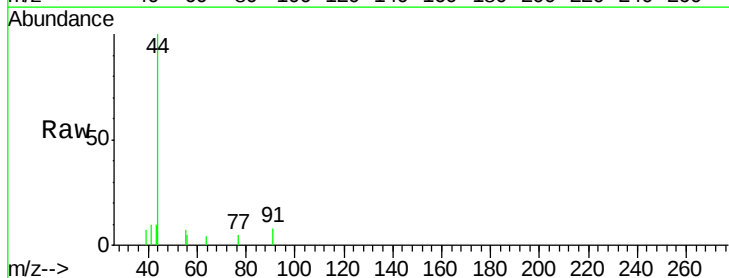
Acq: 22 Jun 2018 22:40

Tgt Ion: 64 Resp: 21

Ion Ratio Lower Upper

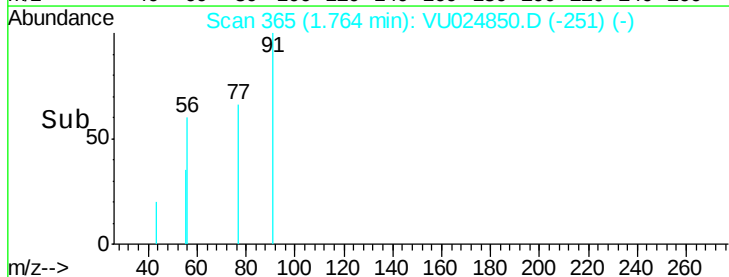
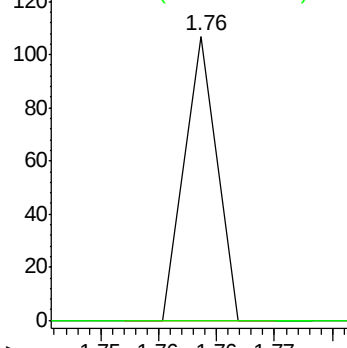
64 100

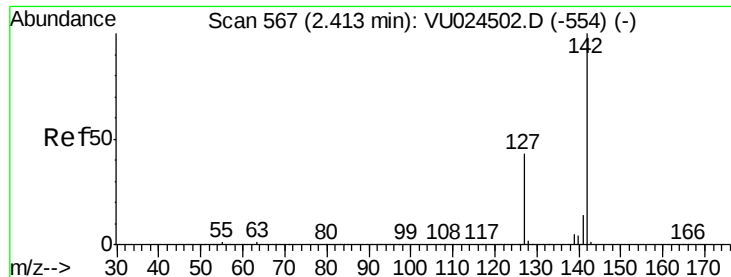
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

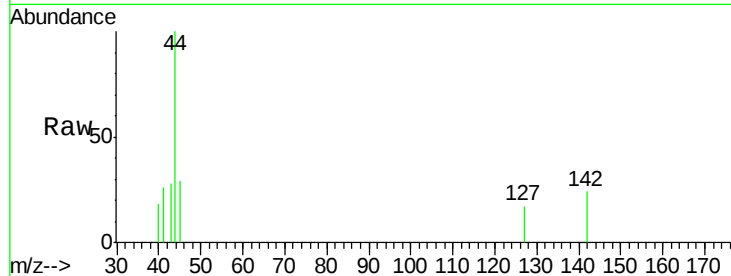




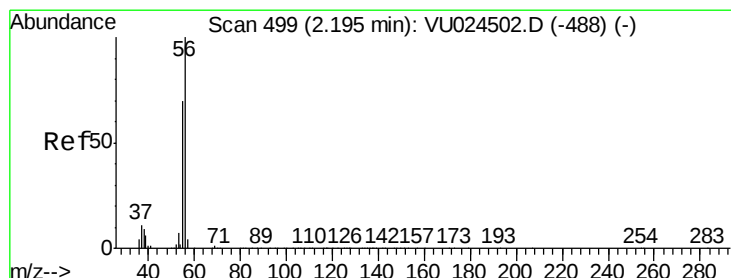
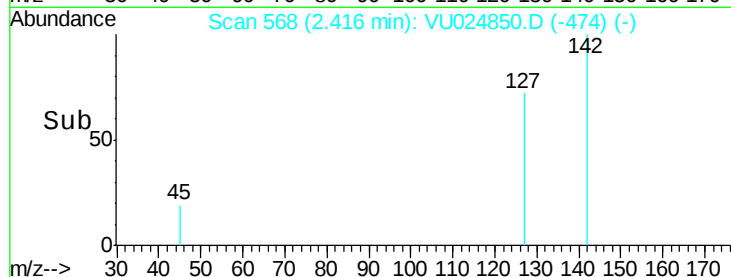
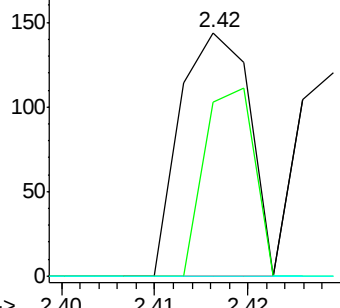
#10
Methvl Iodide
Concen: 5.32 ug/l
RT: 2.42 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU024850.D
Acq: 22 Jun 2018 22:40

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:142 Resp: 74
Ion Ratio Lower Upper
142 100
127 55.4 35.6 53.4#
141 0.0 11.7 17.5#

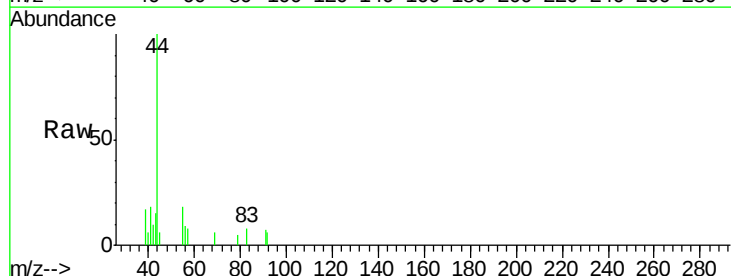


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

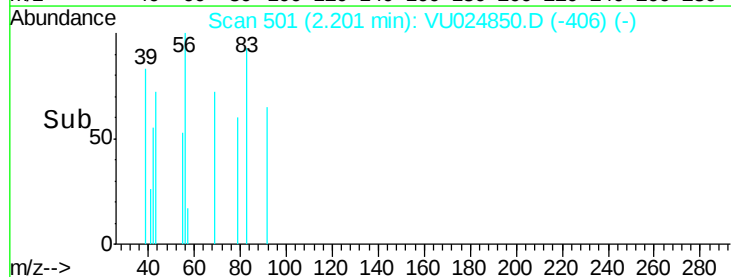
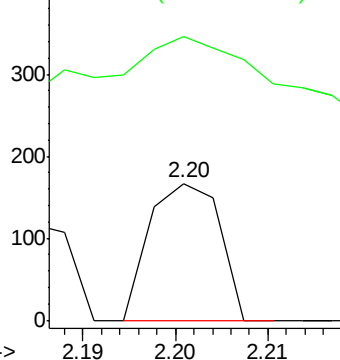


#13
Acrolein
Concen: 0.22 ug/l
RT: 2.20 min Scan# 501
Delta R.T. 0.01 min
Lab File: VU024850.D
Acq: 22 Jun 2018 22:40

Tgt Ion: 56 Resp: 88
Ion Ratio Lower Upper
56 100
55 1187.5 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 55.00 (54.70 to 55.70): VU0





#16

Acetone

Concen: 0.98 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU024850.D

Acq: 22 Jun 2018 22:40

Instrument :

MSVOA_U

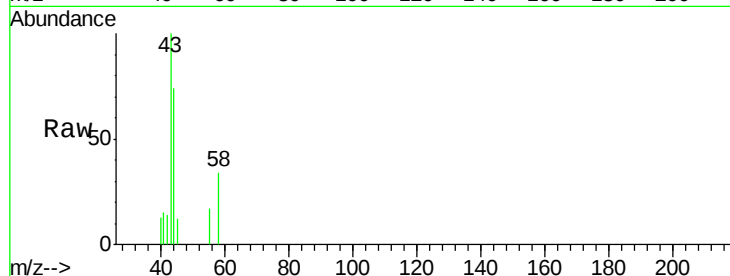
ClientSampled :

Tot Ion: 43 Resp: 1683

Ion Ratio Lower Upper

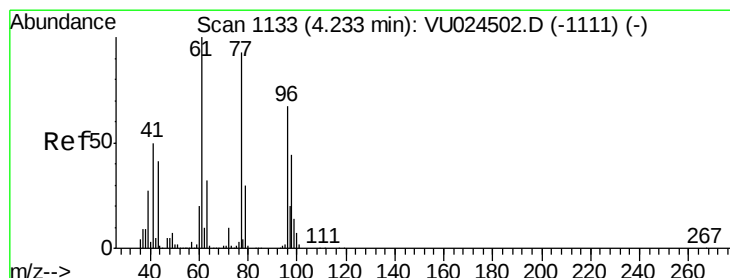
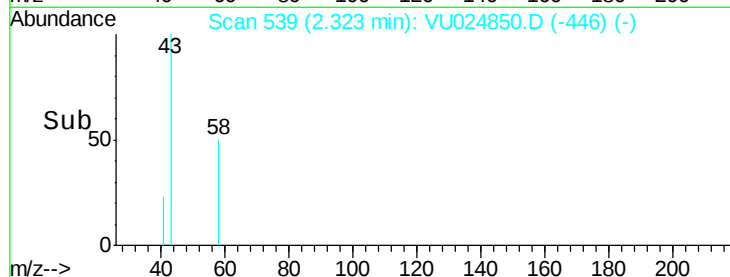
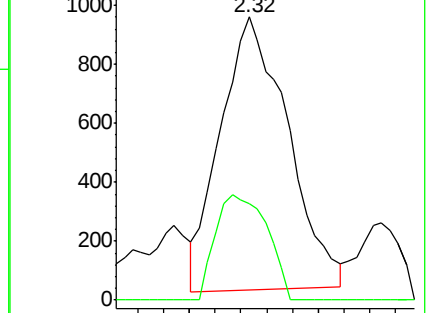
43 100

58 39.0 24.4 36.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#27

cis-1,2-Dichloroethene

Concen: 1.65 ug/l

RT: 4.24 min Scan# 1134

Delta R.T. 0.00 min

Lab File: VU024850.D

Acq: 22 Jun 2018 22:40

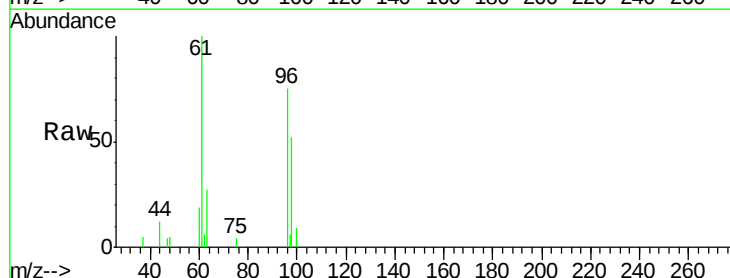
Tgt Ion: 96 Resp: 4673

Ion Ratio Lower Upper

96 100

61 132.6 0.0 306.6

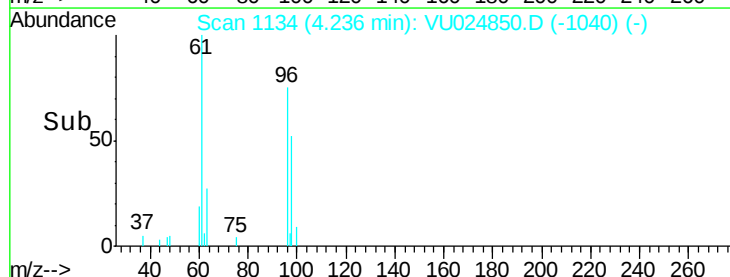
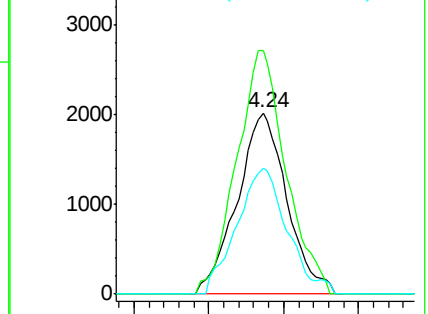
98 70.3 0.0 128.8

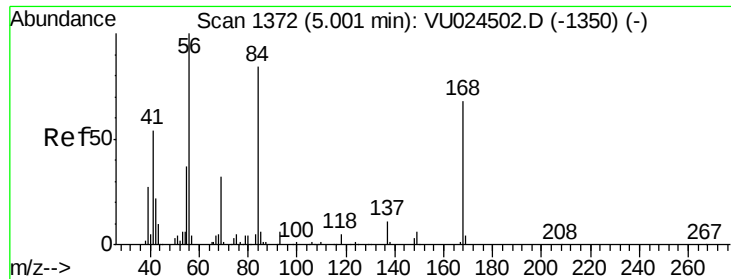


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

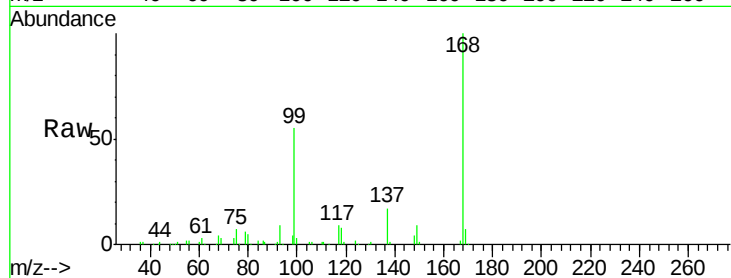




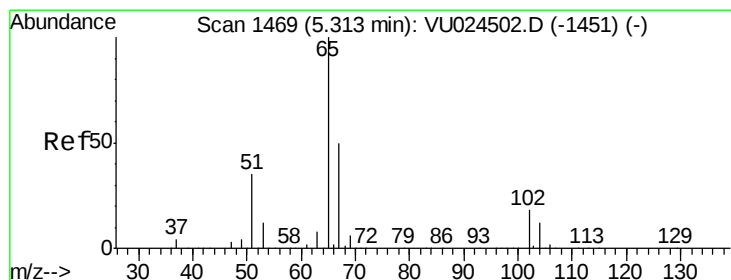
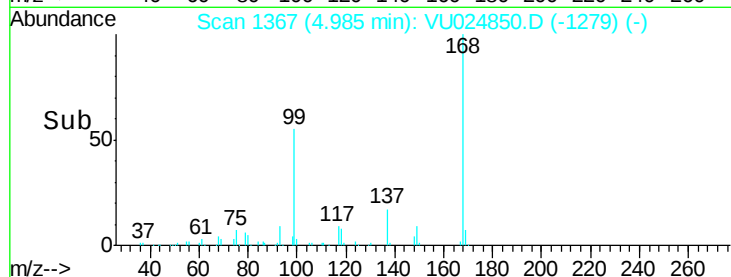
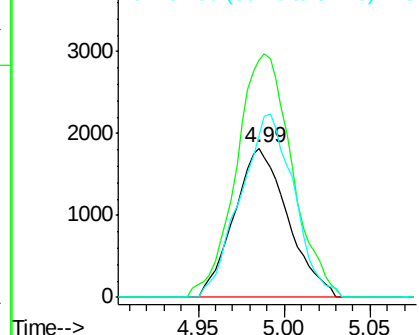
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1367
Delta R.T. -0.02 min
Lab File: VU024850.D
Acq: 22 Jun 2018 22:40

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 3944
Ion Ratio Lower Upper
56 100
69 159.7 24.8 37.2#
84 108.6 65.2 97.8#

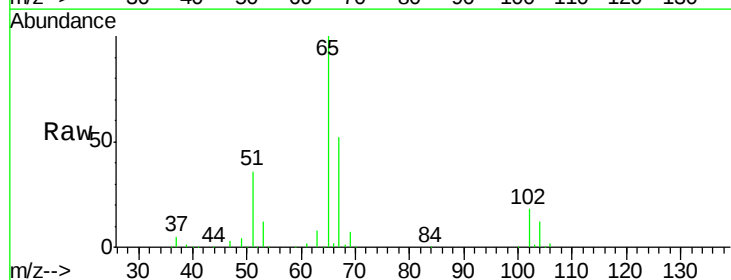


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

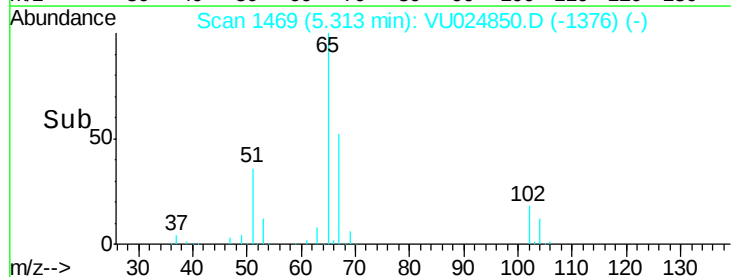
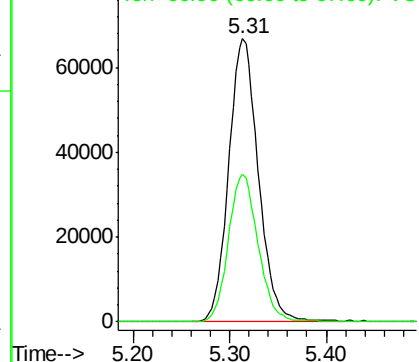


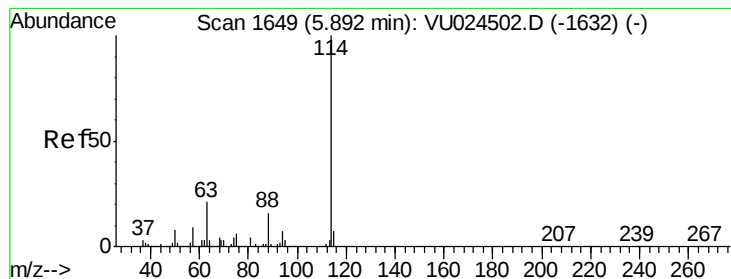
#33
1,2-Dichloroethane-d4
Concen: 44.63 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VU024850.D
Acq: 22 Jun 2018 22:40

Tgt Ion: 65 Resp: 142740
Ion Ratio Lower Upper
65 100
67 51.6 0.0 107.0



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU024850.D

Acq: 22 Jun 2018 22:40

Instrument :
MSVOA_U
ClientSampleId :

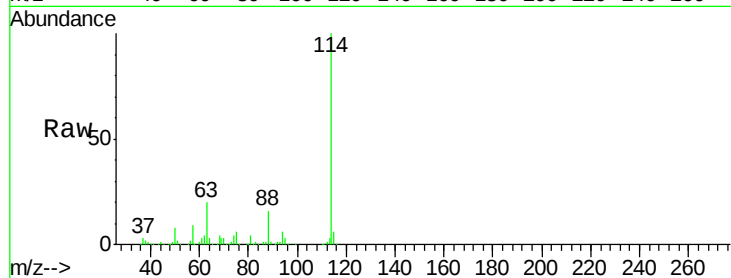
Tot Ion:114 Resp: 299173

Ion Ratio Lower Upper

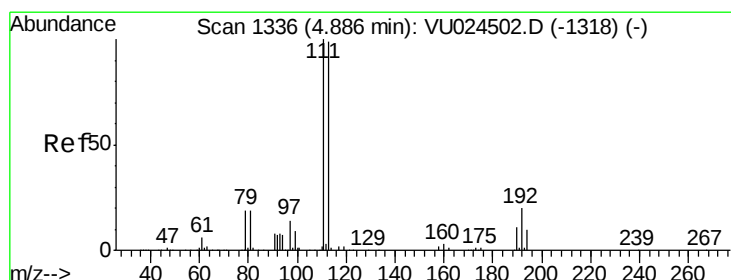
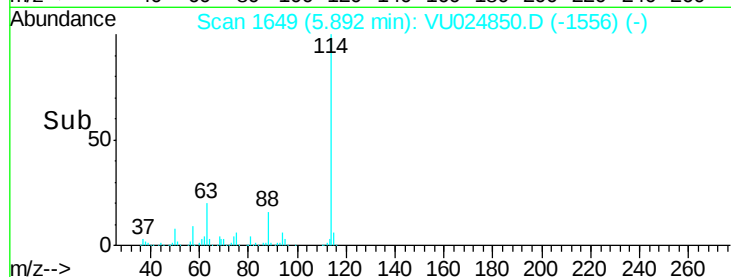
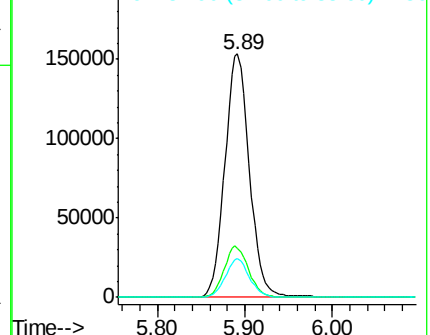
114 100

63 20.4 0.0 45.4

88 15.8 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VU0
Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 46.39 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024850.D

Acq: 22 Jun 2018 22:40

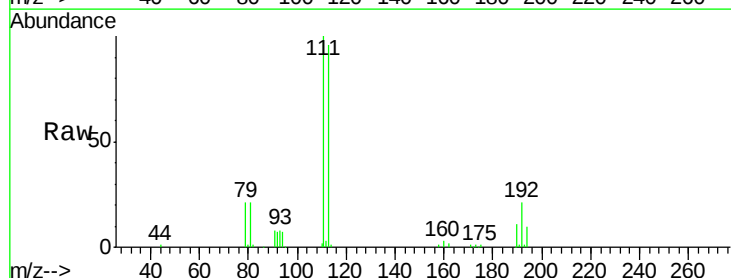
Tgt Ion:113 Resp: 115174

Ion Ratio Lower Upper

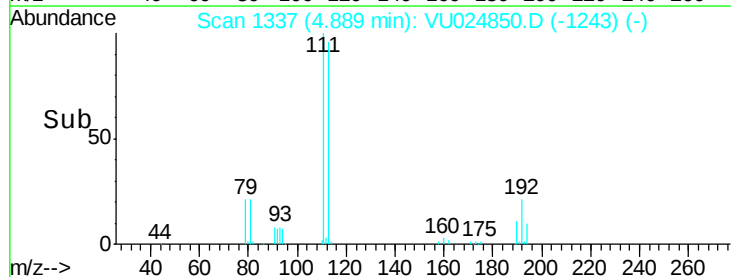
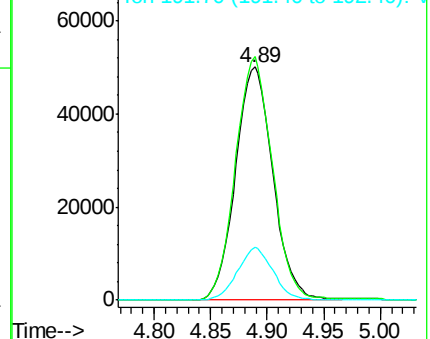
113 100

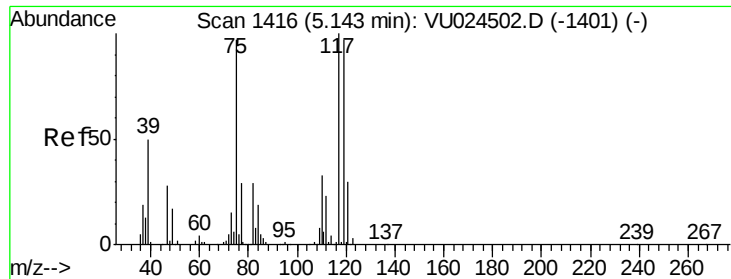
111 103.0 82.2 123.4

192 21.4 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

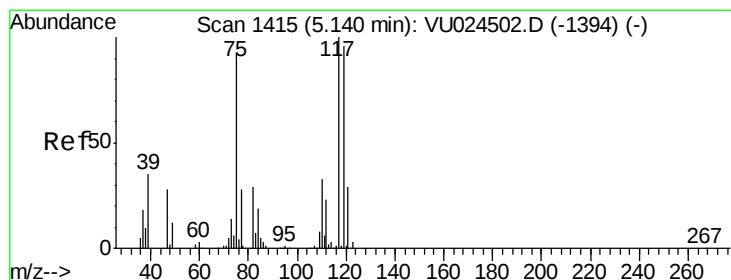
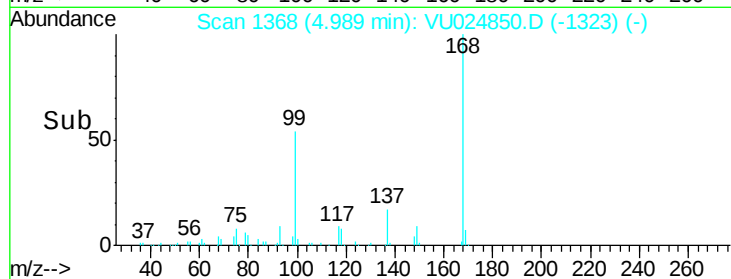
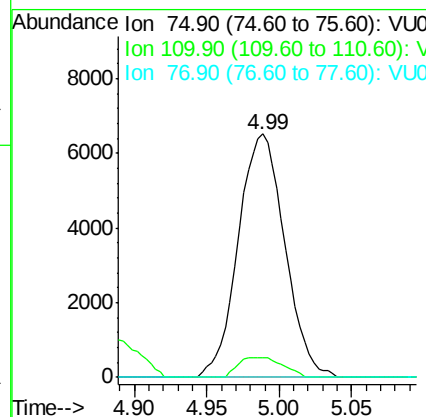
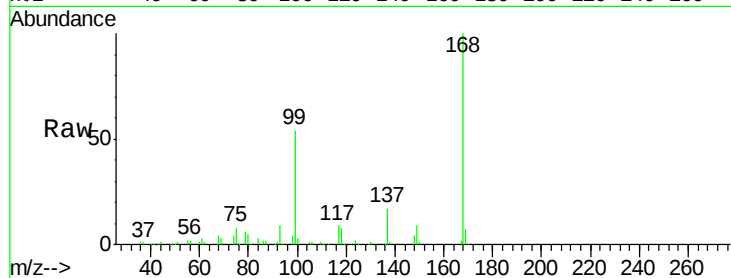




#36
 1,1-Dichloropropene
 Concen: 4.13 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024850.D
 Acq: 22 Jun 2018 22:40

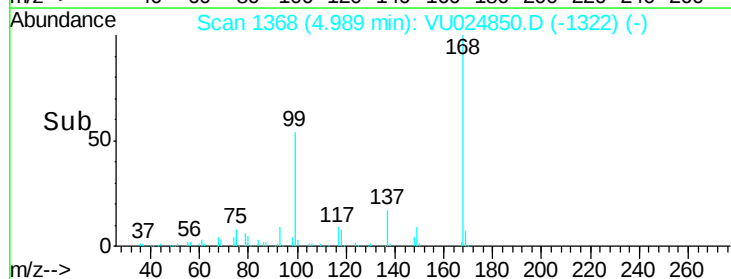
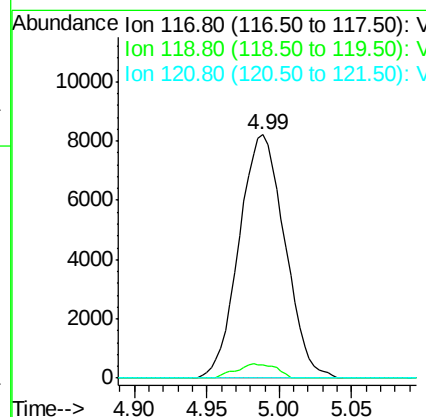
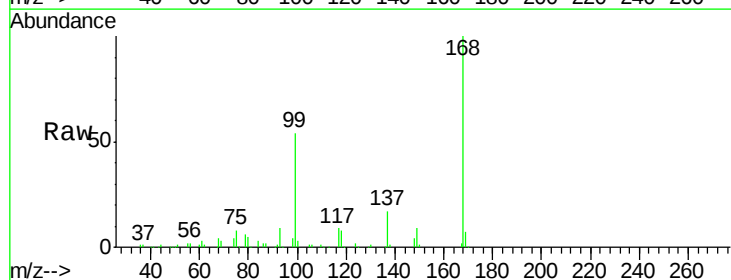
Instrument :
 MSVOA_U
 ClientSampleId :

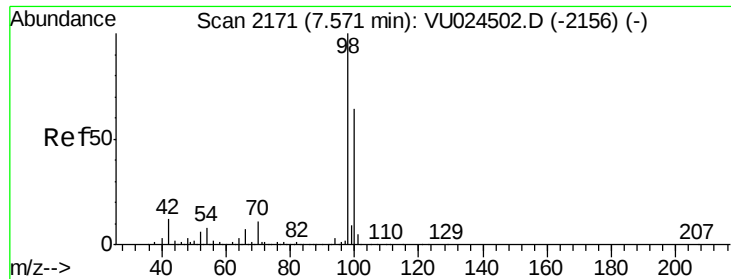
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.8	17.0	50.9#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 4.66 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024850.D
 Acq: 22 Jun 2018 22:40

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	76.1	114.1#
121	0.0	23.7	35.5#





#50

Toluene-d8

Concen: 48.26 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU024850.D

Acq: 22 Jun 2018 22:40

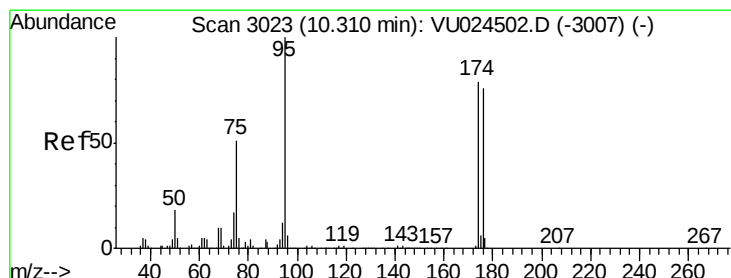
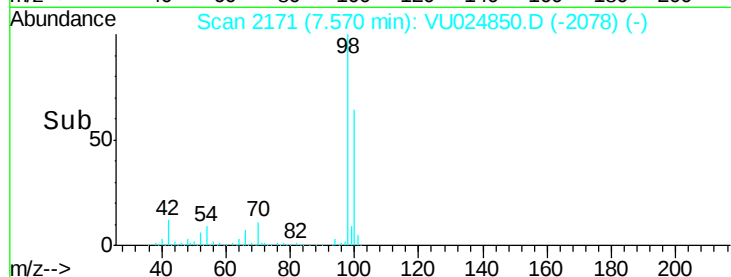
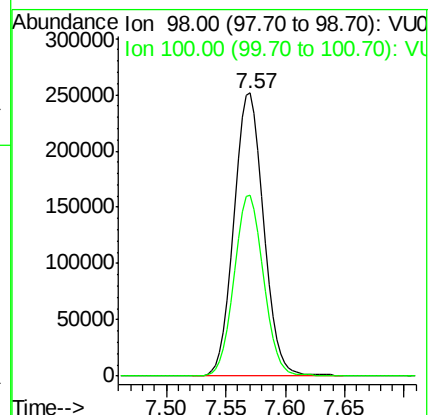
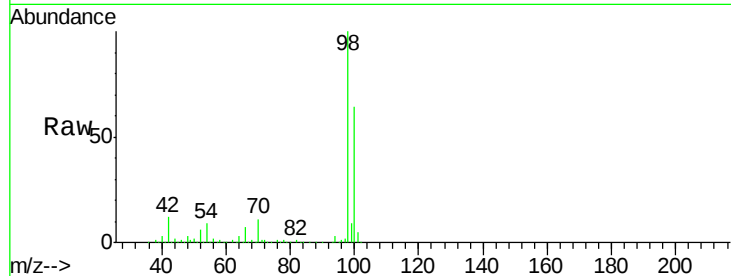
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 98 Resp: 437056

Ion Ratio Lower Upper

98 100

100 63.3 51.1 76.7



#62

4-Bromofluorobenzene

Concen: 44.40 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU024850.D

Acq: 22 Jun 2018 22:40

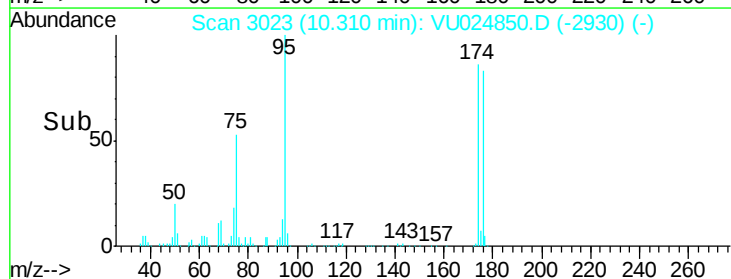
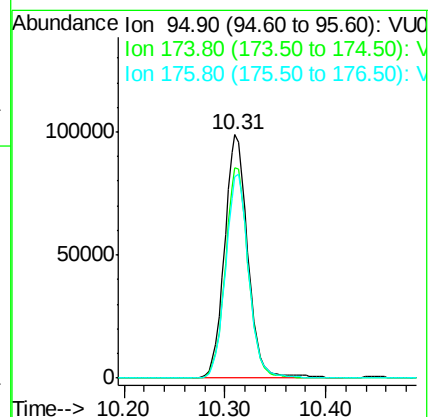
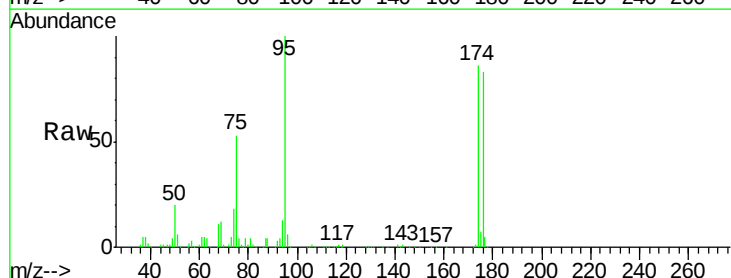
Tgt Ion: 95 Resp: 159669

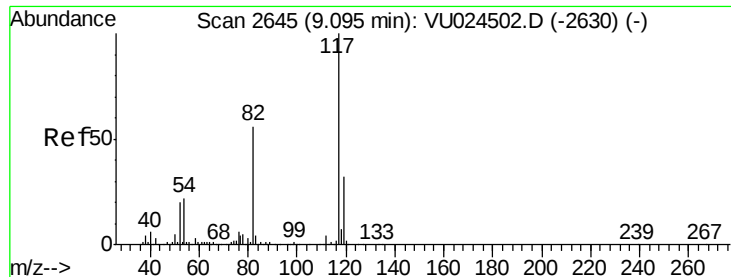
Ion Ratio Lower Upper

95 100

174 84.8 0.0 165.8

176 82.7 0.0 159.4

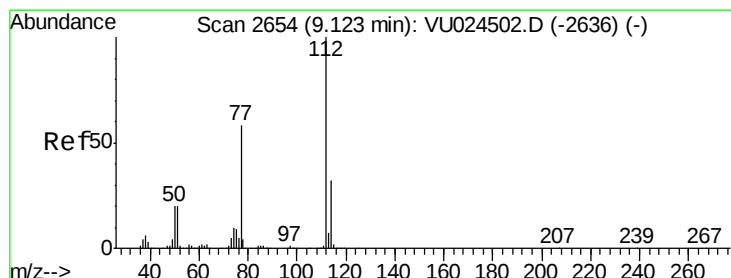
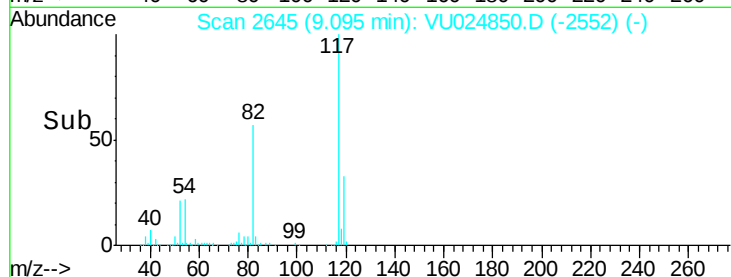
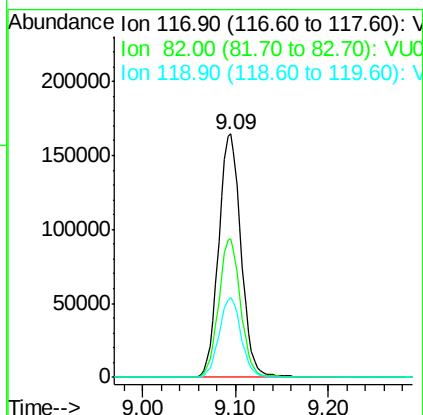
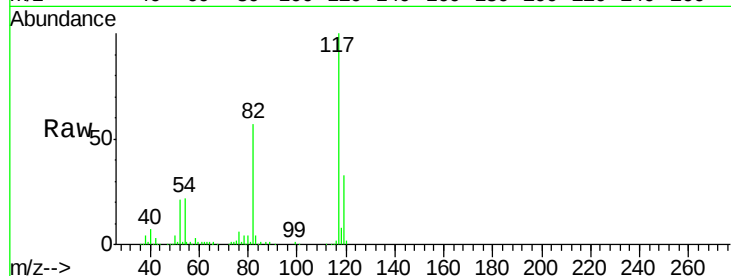




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU024850.D
Acq: 22 Jun 2018 22:40

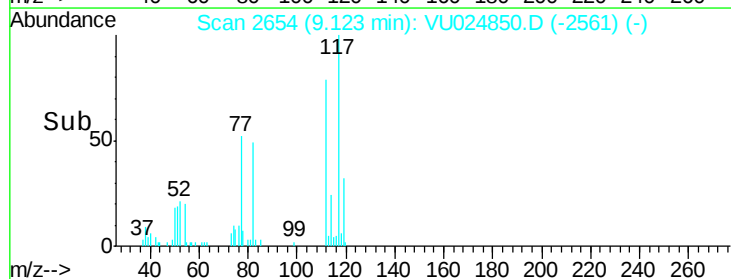
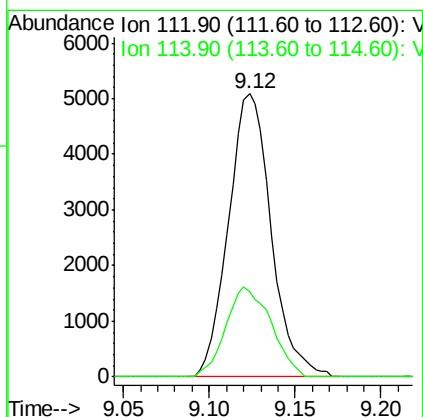
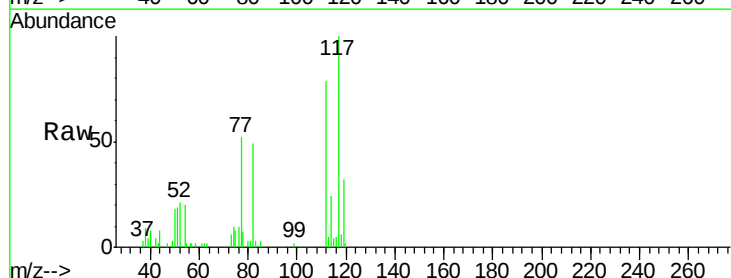
Instrument :
MSVOA_U
ClientSampleId :

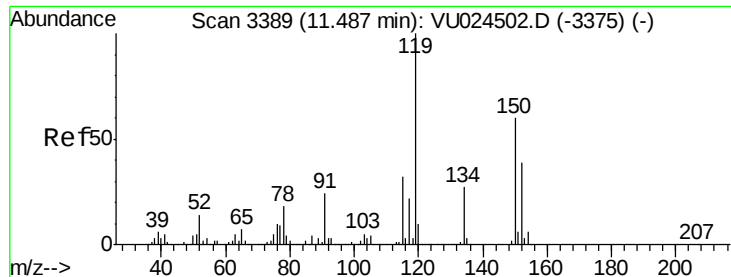
Tot Ion	Ratio	Lower	Upper
117	100		
82	57.0	44.3	66.5
119	32.9	25.4	38.2



#65
Chlorobenzene
Concen: 1.25 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. -0.00 min
Lab File: VU024850.D
Acq: 22 Jun 2018 22:40

Tgt Ion	Ratio	Lower	Upper
112	100		
114	30.0	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU024850.D

Acq: 22 Jun 2018 22:40

Instrument :

MSVOA_U

ClientSampleId :

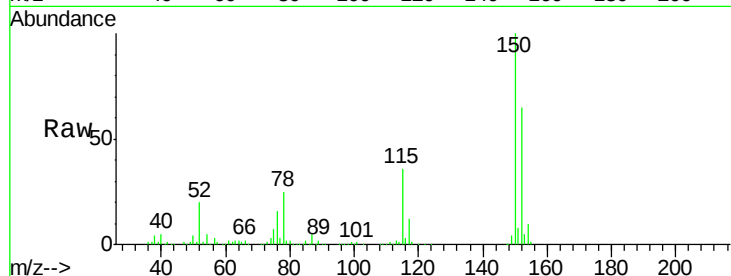
Tot Ion:152 Resp: 151516

Ion Ratio Lower Upper

152 100

115 55.6 43.0 129.0

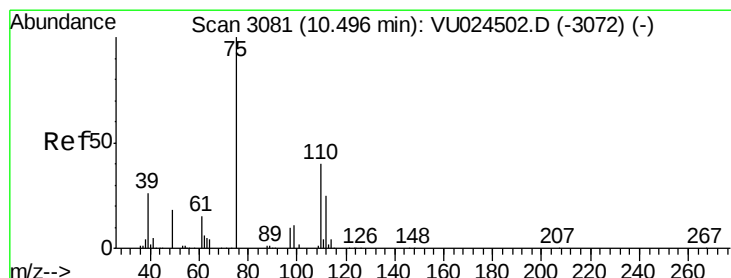
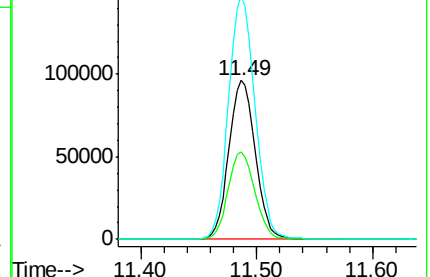
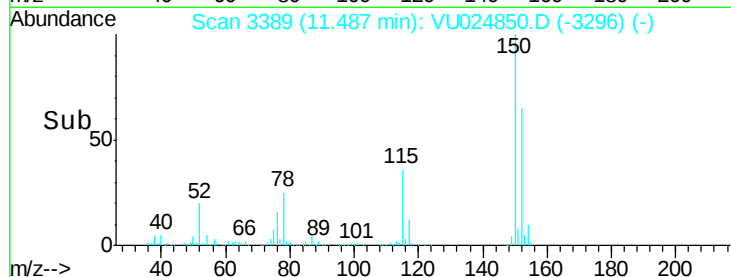
150 153.7 0.0 354.0



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: 25.00 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024850.D

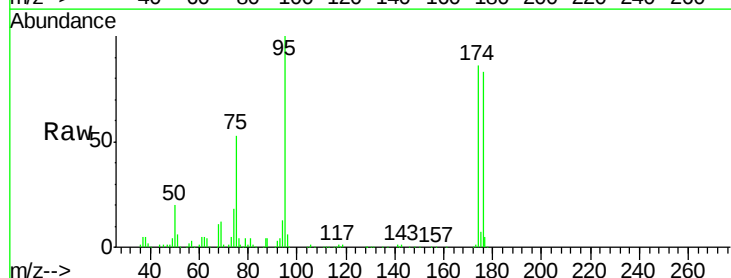
Acq: 22 Jun 2018 22:40

Tgt Ion: 75 Resp: 83387

Ion Ratio Lower Upper

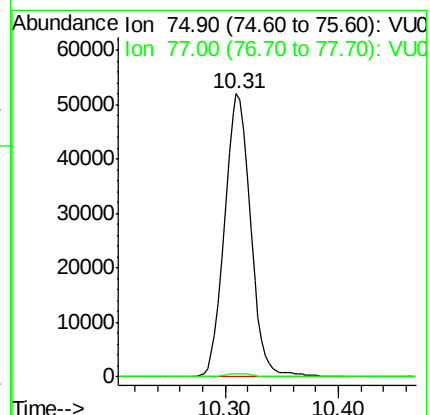
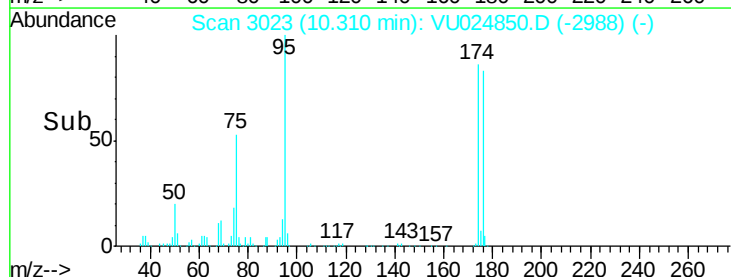
75 100

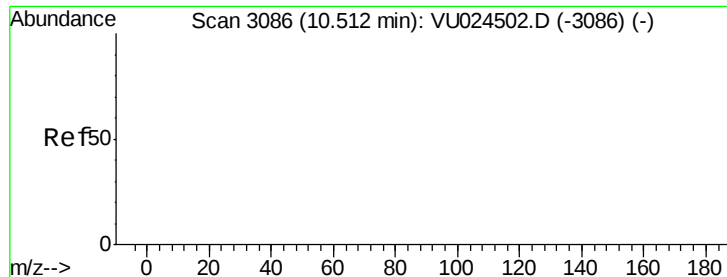
77 1.2 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

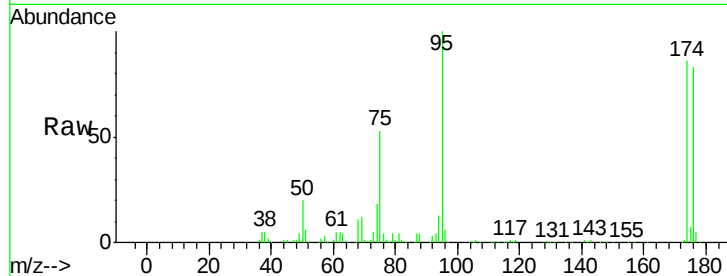




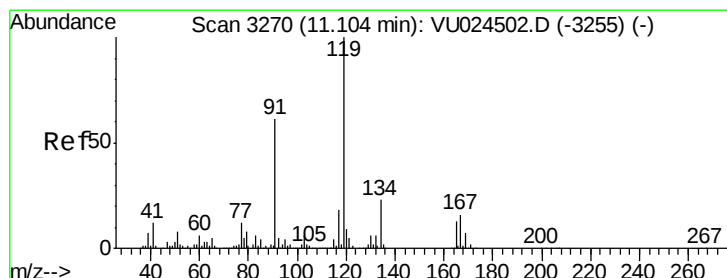
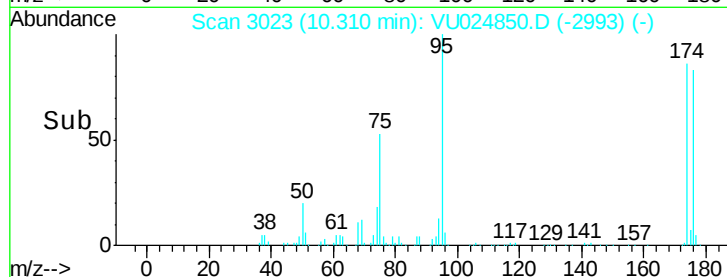
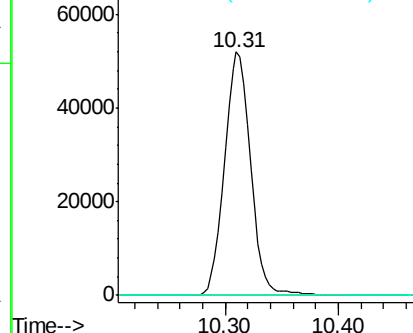
#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.85 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.20 min
 Lab File: VU024850.D
 Acq: 22 Jun 2018 22:40

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 83387
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0

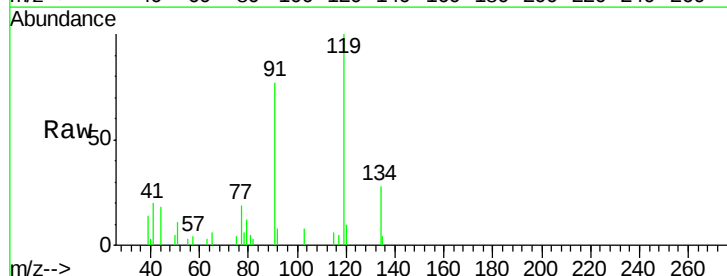


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 53.00 (52.70 to 53.70): VU0
 Ion 88.90 (88.60 to 89.60): VU0

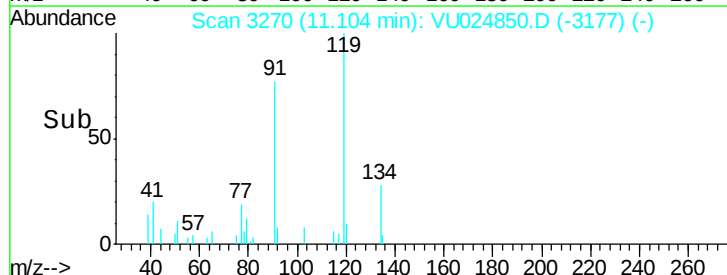
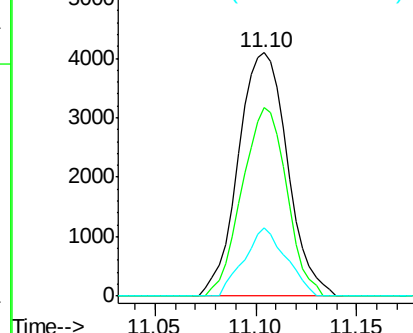


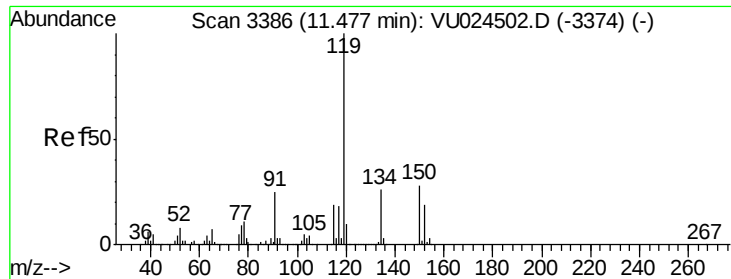
#83
 tert-Butylbenzene
 Concen: 0.72 ug/l
 RT: 11.10 min Scan# 3270
 Delta R.T. -0.00 min
 Lab File: VU024850.D
 Acq: 22 Jun 2018 22:40

Tgt Ion: 119 Resp: 7006
 Ion Ratio Lower Upper
 119 100
 91 70.3 29.7 89.1
 134 24.0 11.6 34.7



Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VU0
 Ion 134.00 (133.70 to 134.70): V

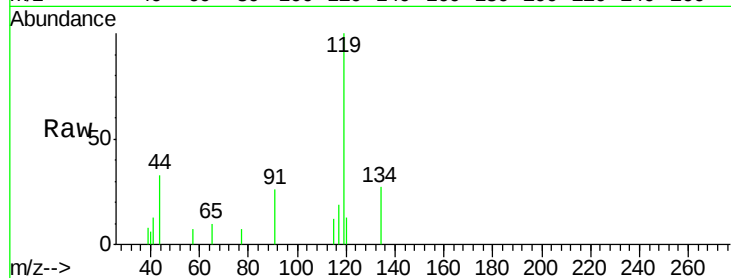




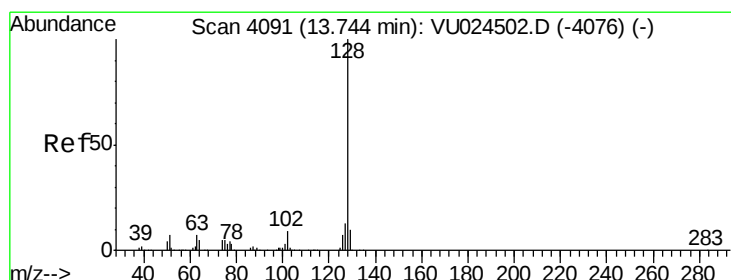
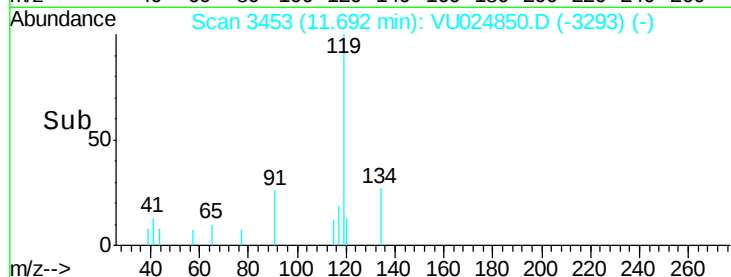
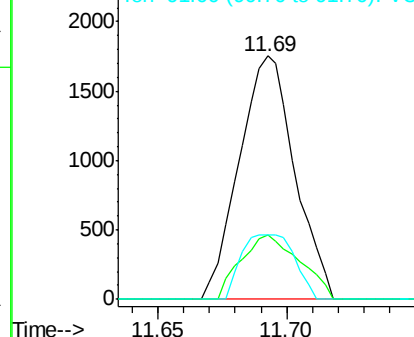
#86
p-Isopropyltoluene
Concen: 0.24 ug/l
RT: 11.69 min Scan# 3453
Delta R.T. 0.22 min
Lab File: VU024850.D
Acq: 22 Jun 2018 22:40

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	28.0	12.9	38.6
91	25.5	12.0	36.1

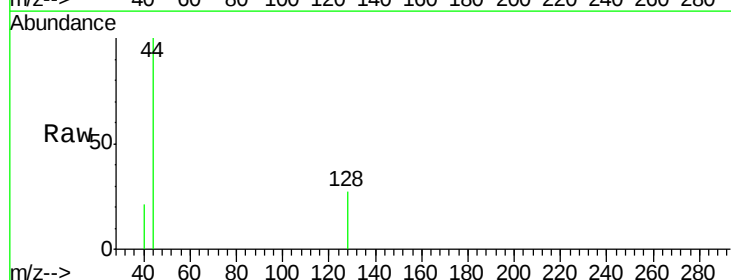


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V



#95
Naphthalene
Concen: 0.70 ug/l
RT: 13.76 min Scan# 4095
Delta R.T. 0.01 min
Lab File: VU024850.D
Acq: 22 Jun 2018 22:40

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



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

