

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025350.D
 Acq On : 12 Jul 2018 19:33
 Operator : MD/SY
 Sample : PB111044ZHE#05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044ZHE#05

Quant Time: Jul 13 01:13:28 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U070918W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 10 09:34:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	197862	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	308053	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	284873	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	149045	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	153879	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
35) Dibromofluoromethane	4.89	113	119329	45.92	ug/l	0.00
Spiked Amount			Recovery	=	91.84%	
50) Toluene-d8	7.57	98	438381	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	
62) 4-Bromofluorobenzene	10.31	95	160414	44.77	ug/l	0.00
Spiked Amount			Recovery	=	89.54%	

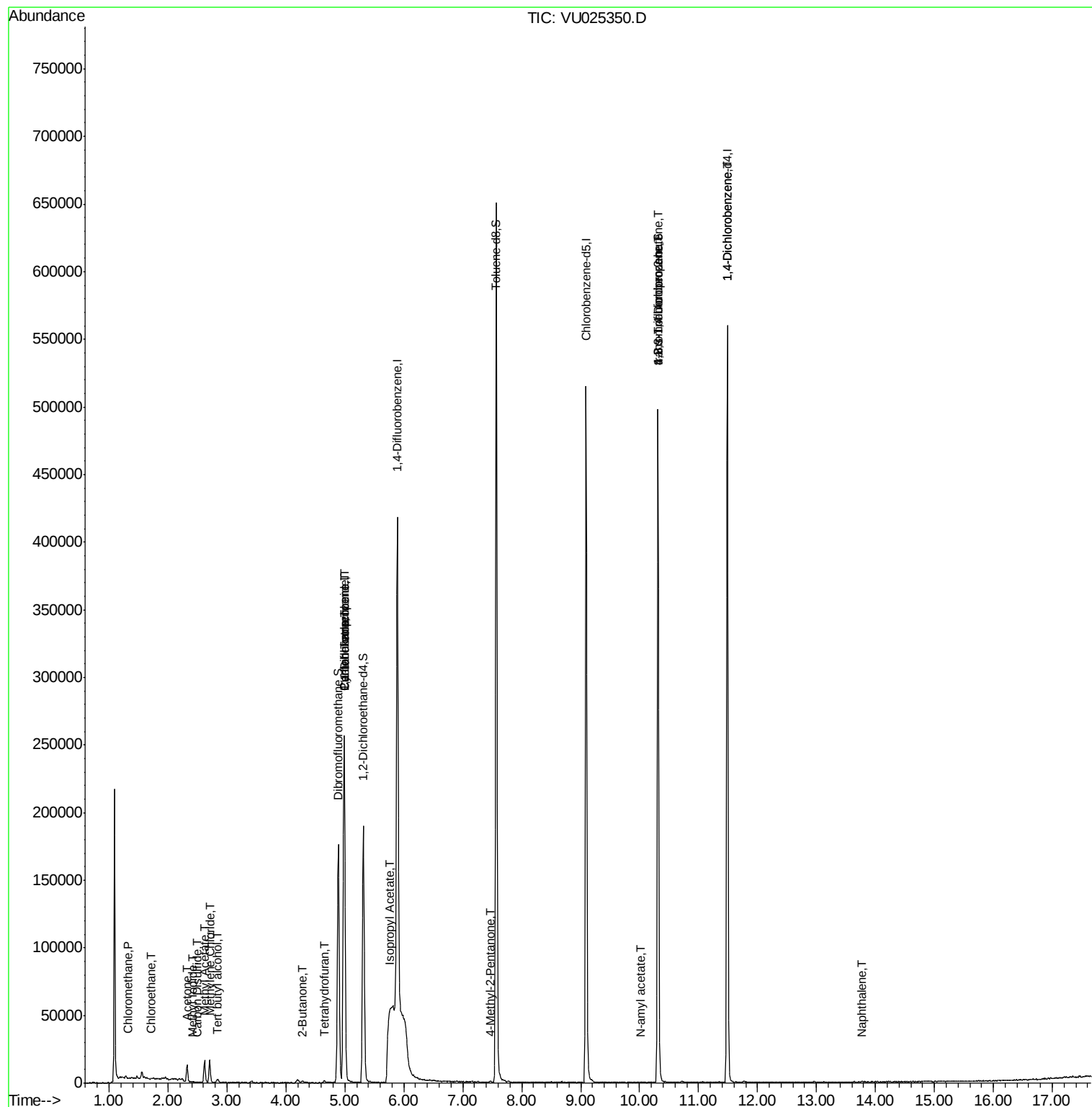
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	397	0.76	ug/l #	42
5) Bromomethane	1.63	94	198	Below Cal	#	63
6) Chloroethane	1.70	64	131	0.38	ug/l #	43
10) Methyl Iodide	2.42	142	76	7.73	ug/l #	39
11) Tert butyl alcohol	2.84	59	1596	2.38	ug/l #	73
16) Acetone	2.32	43	13332	13.20	ug/l	95
17) Carbon Disulfide	2.48	76	271	1.98	ug/l #	74
18) Methyl Acetate	2.62	43	20512	6.52	ug/l	99
20) Methylene Chloride	2.71	84	7625	3.85	ug/l	94
25) 2-Butanone	4.29	43	2096	0.98	ug/l #	84
29) Tetrahydrofuran	4.65	42	1113	0.87	ug/l #	56
31) Cyclohexane	4.99	56	3983	1.75	ug/l #	14
36) 1,1-Dichloropropene	4.99	75	14257	4.16	ug/l #	50
38) Carbon Tetrachloride	4.99	117	19567	5.31	ug/l #	16
43) Isopropyl Acetate	5.76	43	48188	7.88	ug/l #	62
51) 4-Methyl-2-Pentanone	7.47	43	966	0.24	ug/l #	85
74) N-amyl acetate	10.01	43	83	1.29	ug/l #	43
76) 1,2,3-Trichloropropane	10.31	75	85475	28.17	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	85475	71.98	ug/l #	100
88) 1,4-Dichlorobenzene	11.49	146	117	1.51	ug/l #	1
95) Naphthalene	13.78	128	486	2.46	ug/l #	69

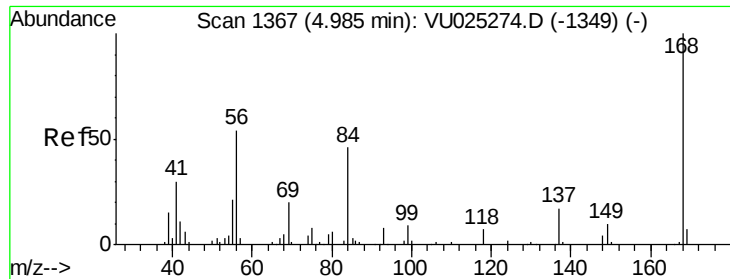
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU025350.D

Acq: 12 Jul 2018 19:33

Instrument :

MSVOA_U

ClientSampleId :

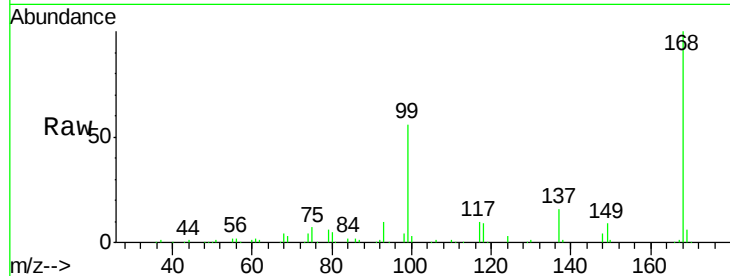
PB111044ZHE#05

Tot Ion:168 Resp: 197862

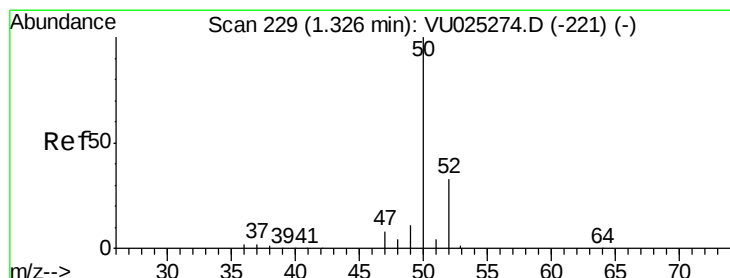
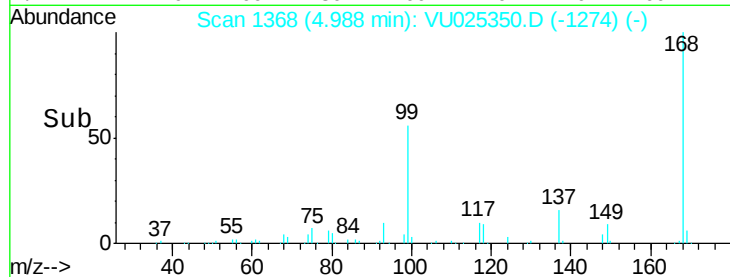
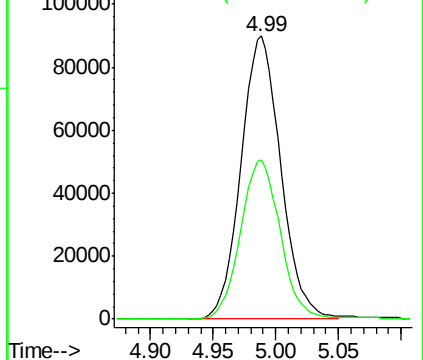
Ion Ratio Lower Upper

168 100

99 56.3 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025274.D (-1349) (-)



#3

Chloromethane

Concen: 0.76 ug/l

RT: 1.33 min Scan# 229

Delta R.T. 0.00 min

Lab File: VU025350.D

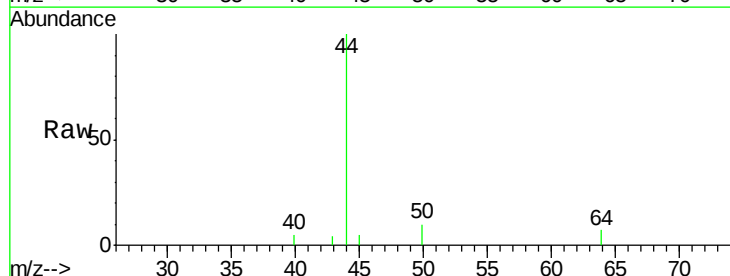
Acq: 12 Jul 2018 19:33

Tgt Ion: 50 Resp: 397

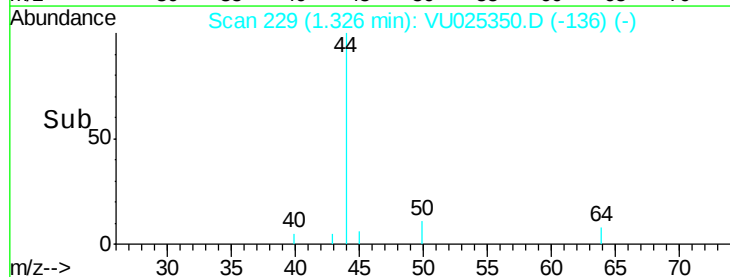
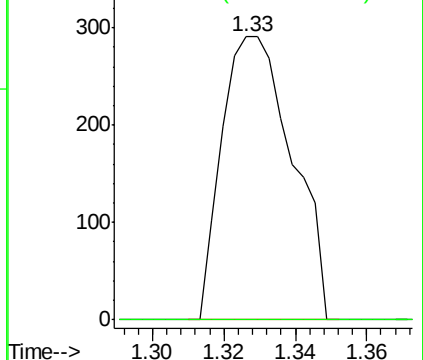
Ion Ratio Lower Upper

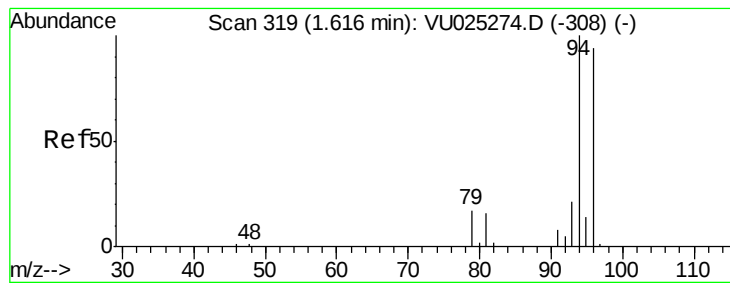
50 100

52 0.0 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VU025274.D (-221) (-)





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 325

Delta R.T. 0.02 min

Lab File: VU025350.D

Acq: 12 Jul 2018 19:33

Instrument :

MSVOA_U

ClientSampleId :

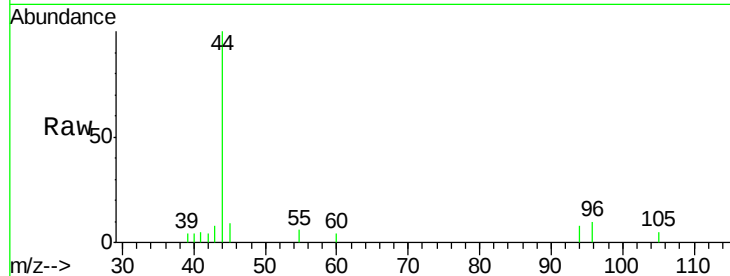
PB111044ZHE#05

Tot Ion: 94 Resp: 198

Ion Ratio Lower Upper

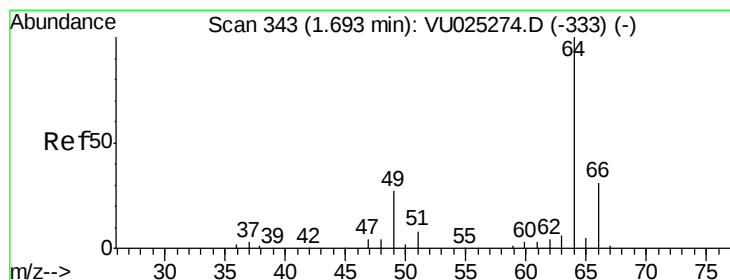
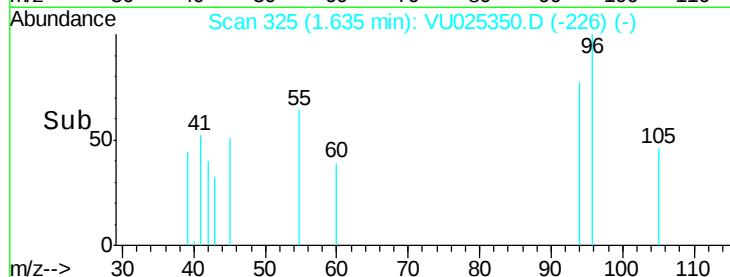
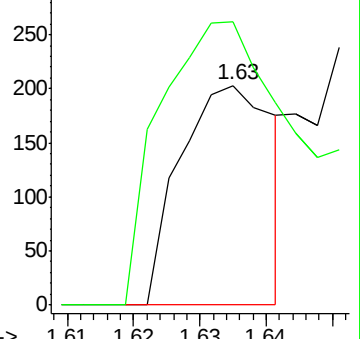
94 100

96 129.1 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 0.38 ug/l

RT: 1.70 min Scan# 345

Delta R.T. 0.01 min

Lab File: VU025350.D

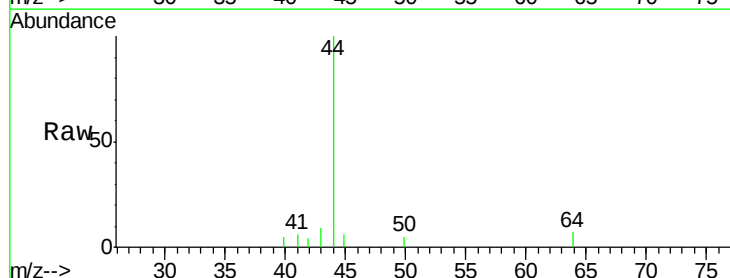
Acq: 12 Jul 2018 19:33

Tgt Ion: 64 Resp: 131

Ion Ratio Lower Upper

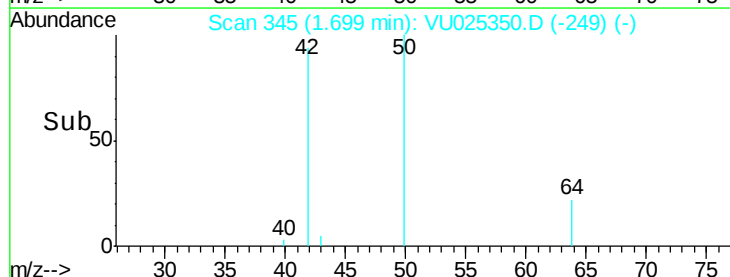
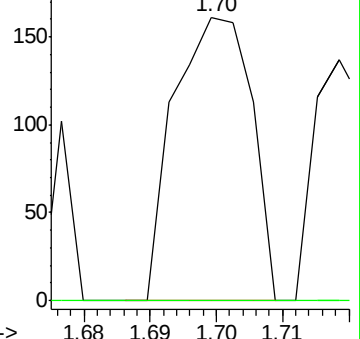
64 100

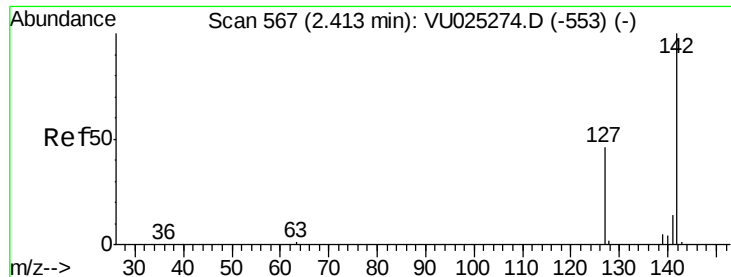
66 0.0 25.0 37.4#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

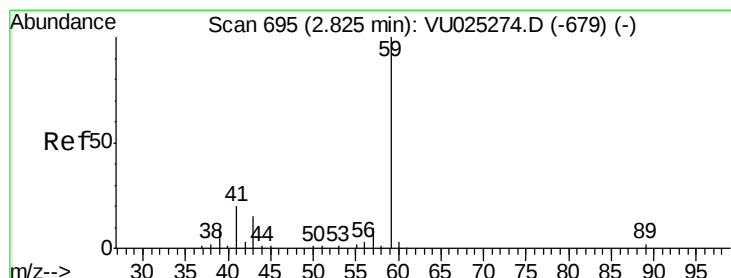
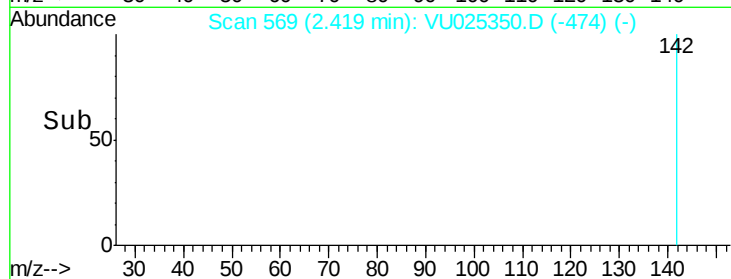
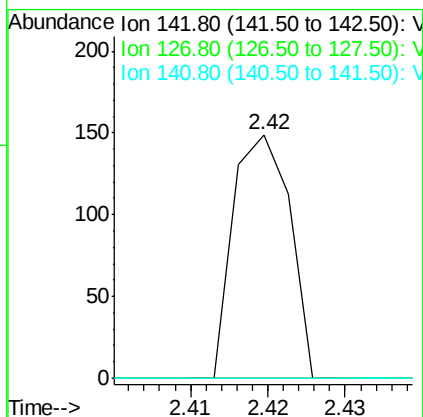
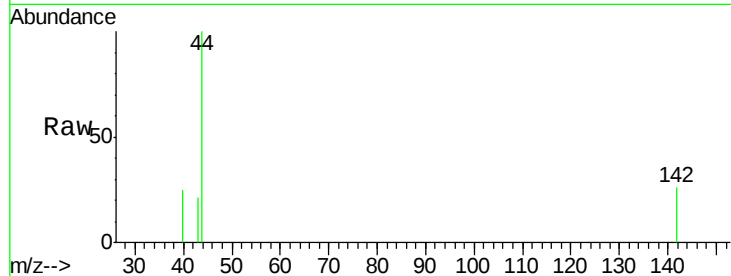




#10
Methvl Iodide
Concen: 7.73 ug/l
RT: 2.42 min Scan# 569
Delta R.T. 0.01 min
Lab File: VU025350.D
Acq: 12 Jul 2018 19:33

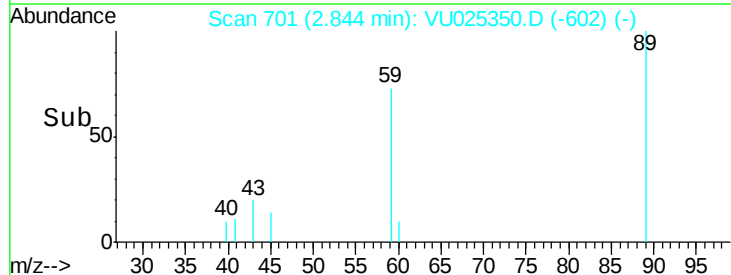
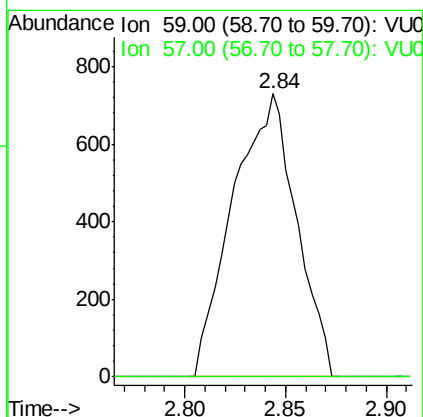
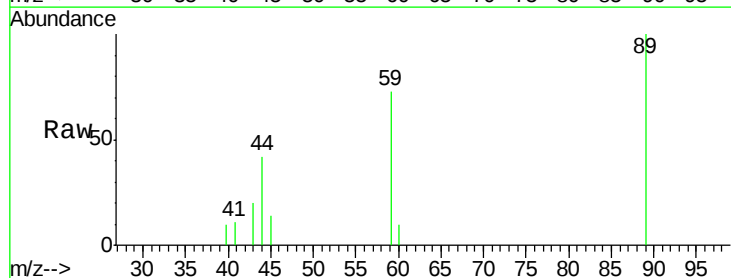
Instrument :
MSVOA_U
ClientSampleId :
PB111044ZHE#05

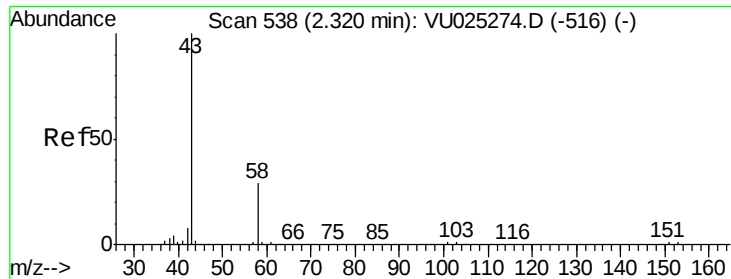
Tot Ion:142 Resp: 76
Ion Ratio Lower Upper
142 100
127 0.0 36.5 54.7#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 2.38 ug/l
RT: 2.84 min Scan# 701
Delta R.T. 0.02 min
Lab File: VU025350.D
Acq: 12 Jul 2018 19:33

Tgt Ion: 59 Resp: 1596
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#16

Acetone

Concen: 13.20 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025350.D

Acq: 12 Jul 2018 19:33

Instrument :

MSVOA_U

ClientSampleId :

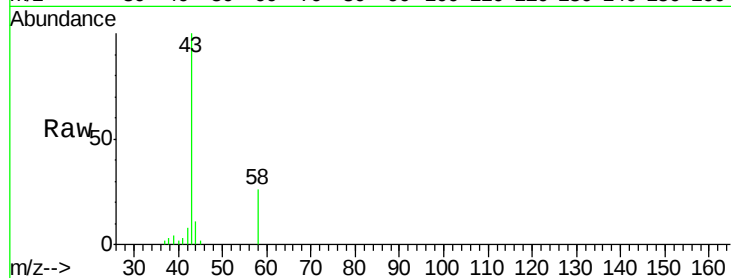
PB111044ZHE#05

Tot Ion: 43 Resp: 13332

Ion Ratio Lower Upper

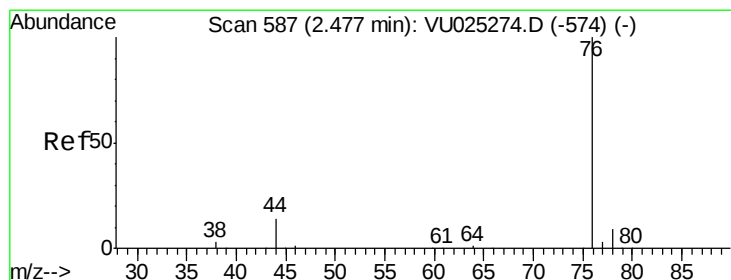
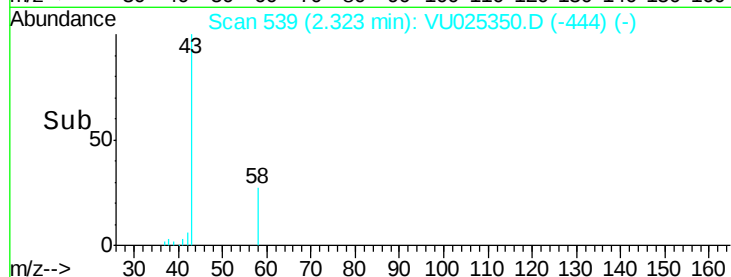
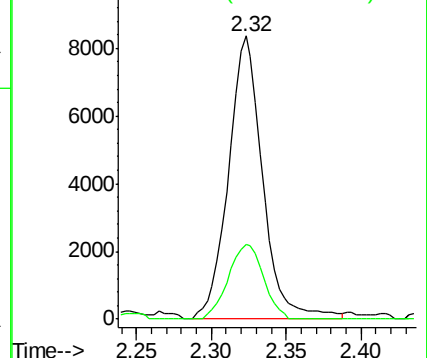
43 100

58 26.4 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#17

Carbon Disulfide

Concen: 1.98 ug/l

RT: 2.48 min Scan# 589

Delta R.T. 0.01 min

Lab File: VU025350.D

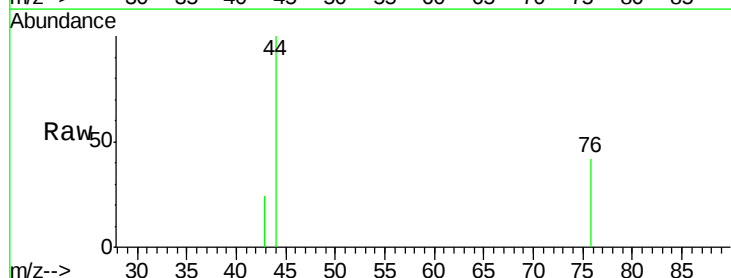
Acq: 12 Jul 2018 19:33

Tgt Ion: 76 Resp: 271

Ion Ratio Lower Upper

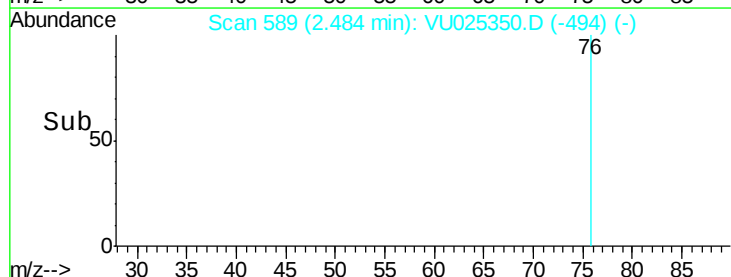
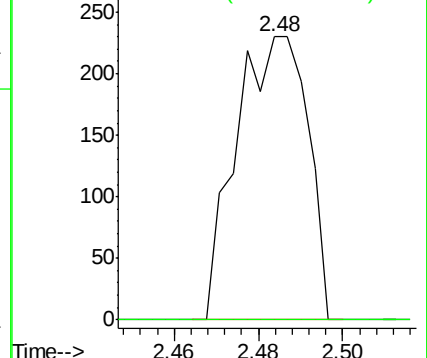
76 100

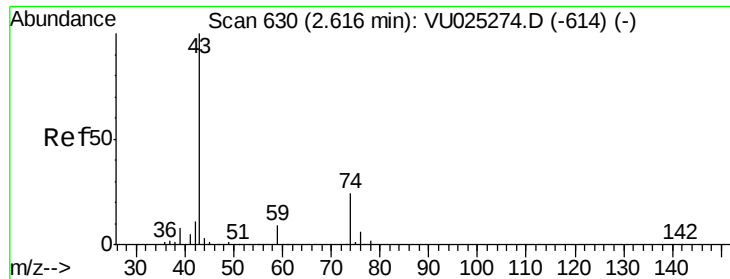
78 0.0 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

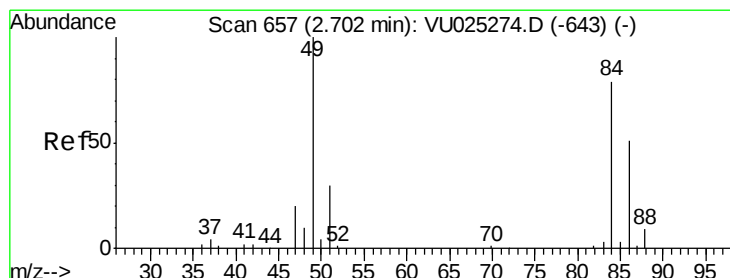
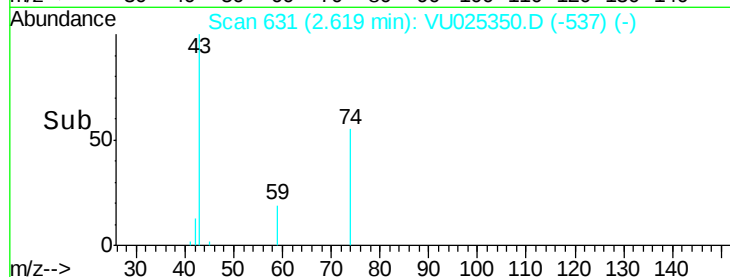
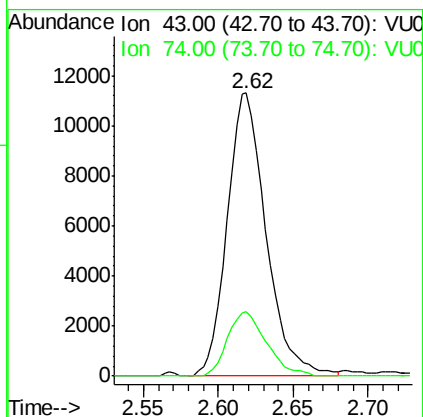
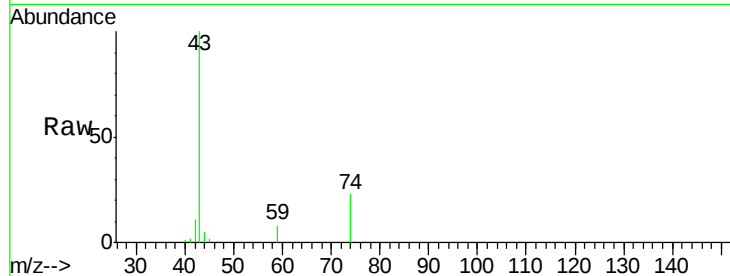




#18
Methvl Acetate
Concen: 6.52 ug/l
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU025350.D
Acq: 12 Jul 2018 19:33

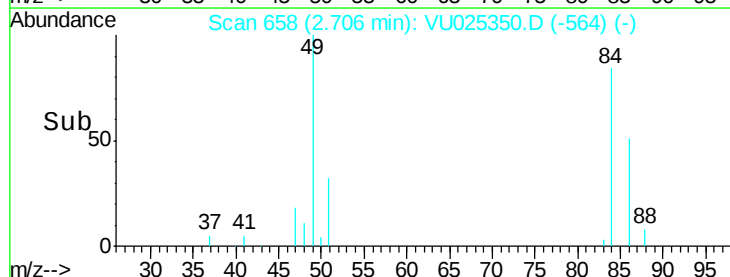
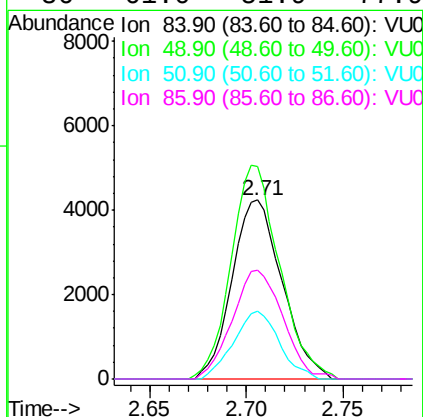
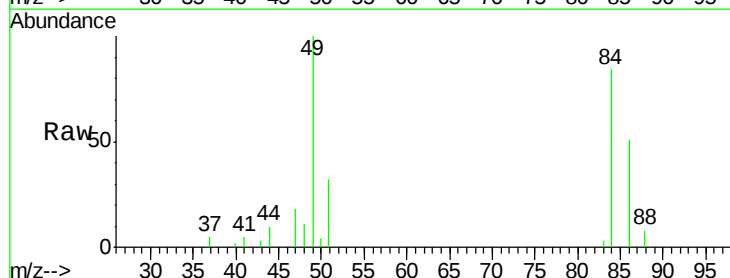
Instrument :
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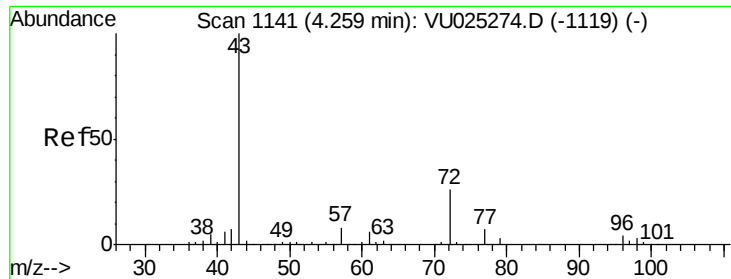
Tot Ion: 43 Resp: 20512
Ion Ratio Lower Upper
43 100
74 22.8 18.5 27.7



#20
Methylene Chloride
Concen: 3.85 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU025350.D
Acq: 12 Jul 2018 19:33

Tgt Ion: 84 Resp: 7625
Ion Ratio Lower Upper
84 100
49 118.8 101.8 152.6
51 37.7 30.8 46.2
86 61.0 51.9 77.9

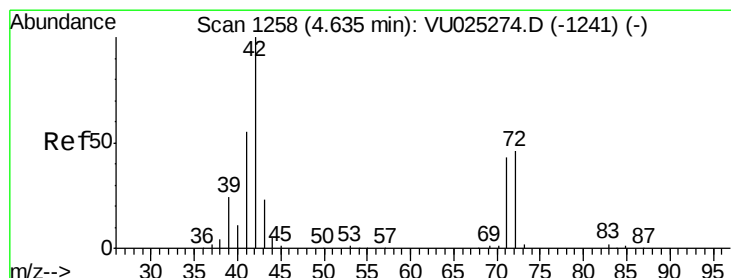
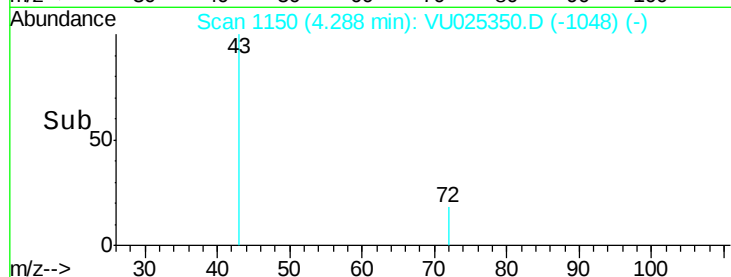
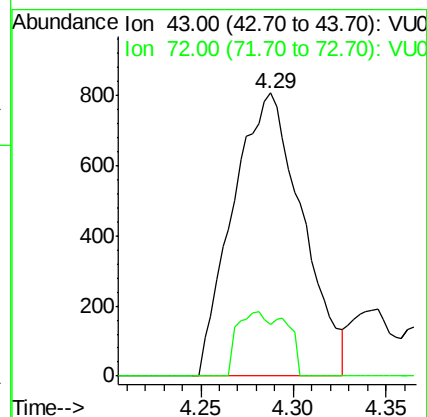
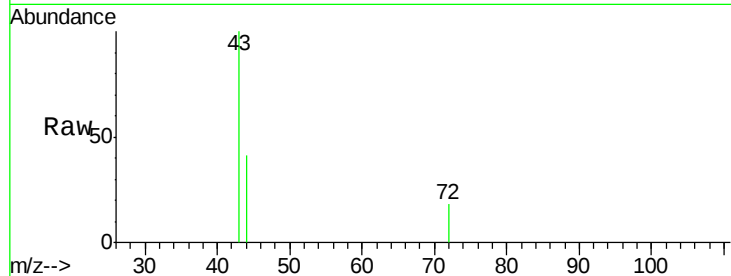




#25
 2-Butanone
 Concen: 0.98 ug/l
 RT: 4.29 min Scan# 1150
 Delta R.T. 0.03 min
 Lab File: VU025350.D
 Acq: 12 Jul 2018 19:33

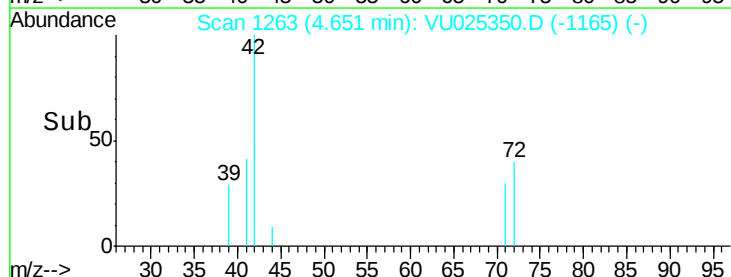
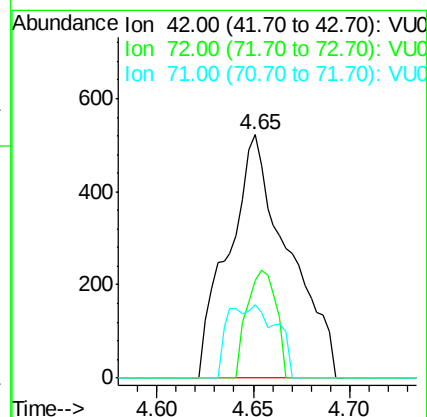
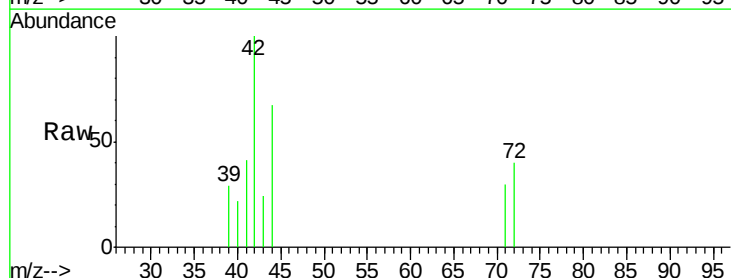
Instrument :
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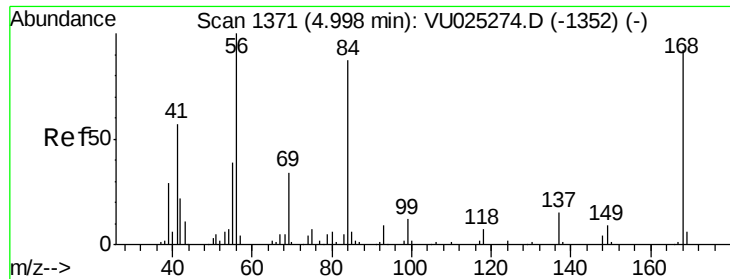
Tot Ion: 43 Resp: 2096
 Ion Ratio Lower Upper
 43 100
 72 18.2 21.0 31.4#



#29
 Tetrahydrofuran
 Concen: 0.87 ug/l
 RT: 4.65 min Scan# 1263
 Delta R.T. 0.02 min
 Lab File: VU025350.D
 Acq: 12 Jul 2018 19:33

Tgt Ion: 42 Resp: 1113
 Ion Ratio Lower Upper
 42 100
 72 21.8 36.7 55.1#
 71 9.5 33.9 50.9#

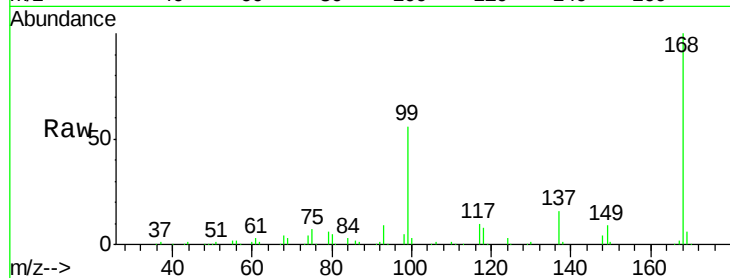




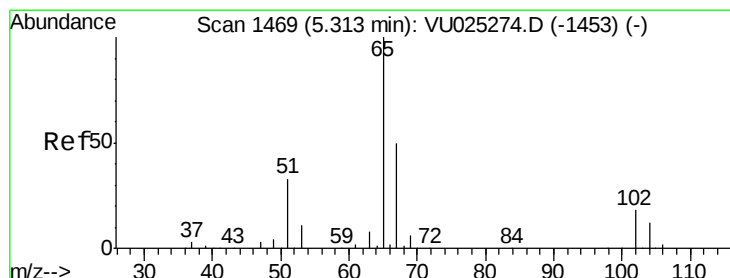
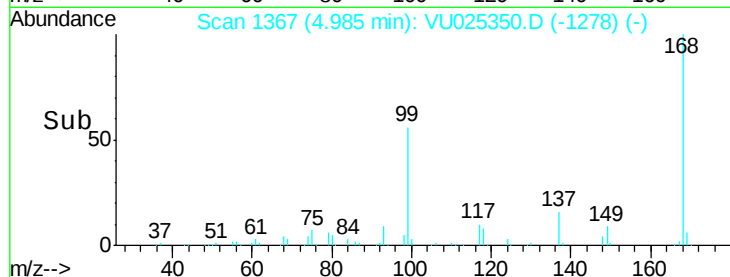
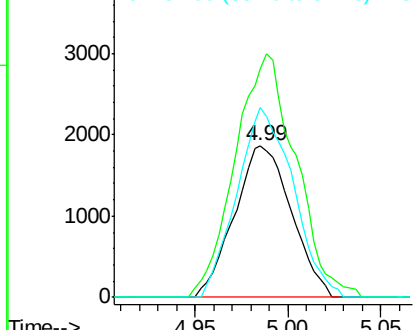
#31
Cyclohexane
Concen: 1.75 ug/l
RT: 4.99 min Scan# 1367
Delta R.T. -0.01 min
Lab File: VU025350.D
Acq: 12 Jul 2018 19:33

Instrument :
MSVOA_U
ClientSampleId :
PB111044ZHE#05

Tot Ion: 56 Resp: 3983
Ion Ratio Lower Upper
56 100
69 149.8 26.8 40.2#
84 124.8 69.7 104.5#

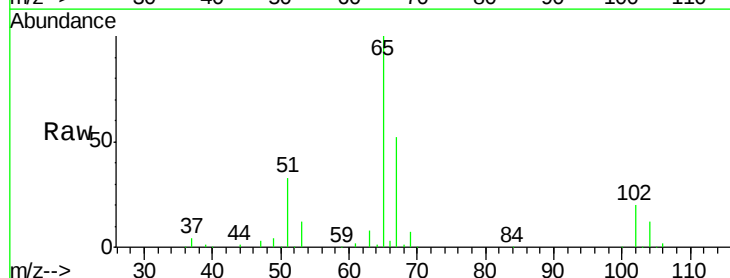


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

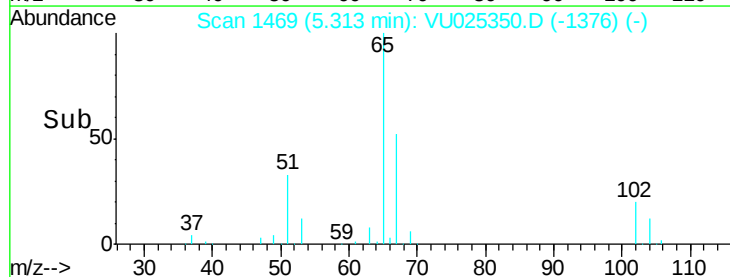
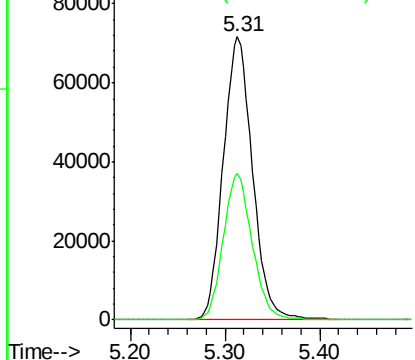


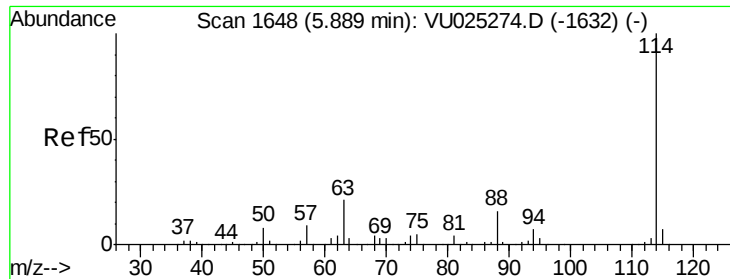
#33
1,2-Dichloroethane-d4
Concen: 50.06 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VU025350.D
Acq: 12 Jul 2018 19:33

Tgt Ion: 65 Resp: 153879
Ion Ratio Lower Upper
65 100
67 51.1 0.0 103.6



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

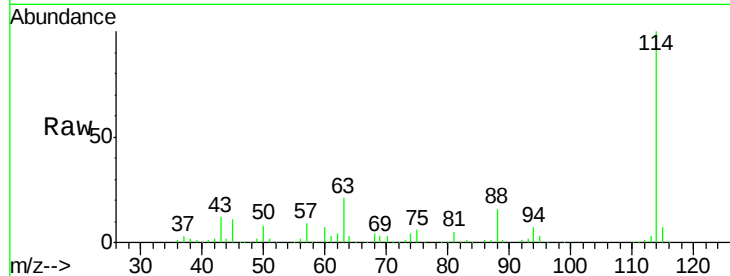




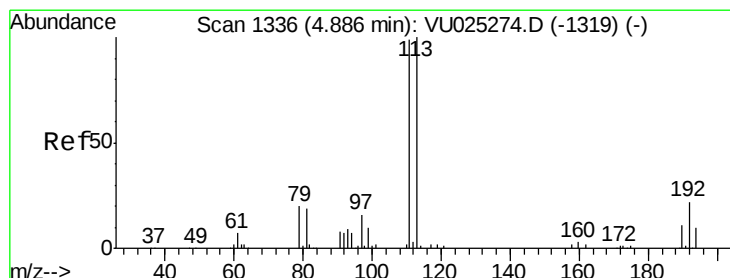
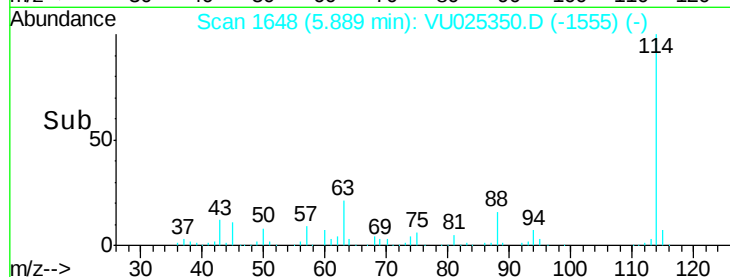
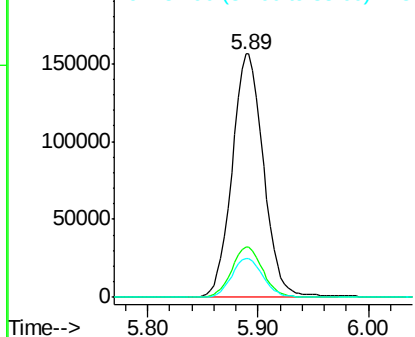
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. -0.00 min
 Lab File: VU025350.D
 Acq: 12 Jul 2018 19:33

Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044ZHE#05

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	41.6
88	15.9	0.0	32.4

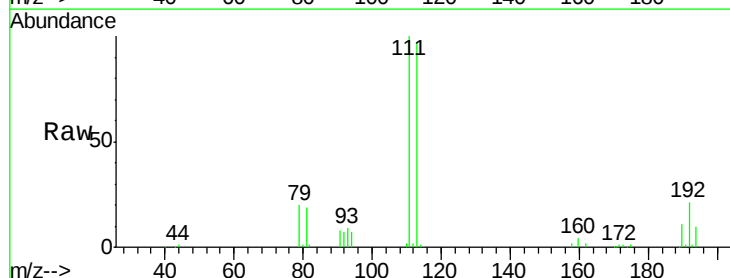


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

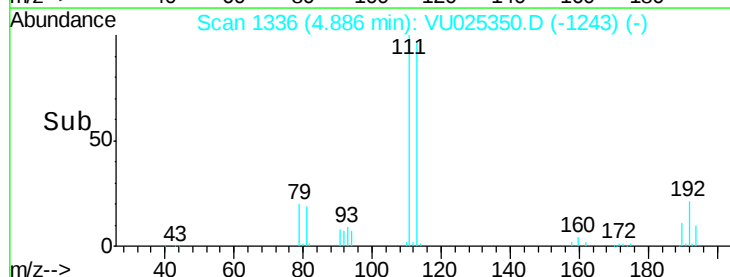
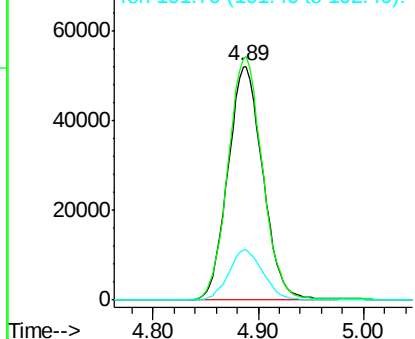


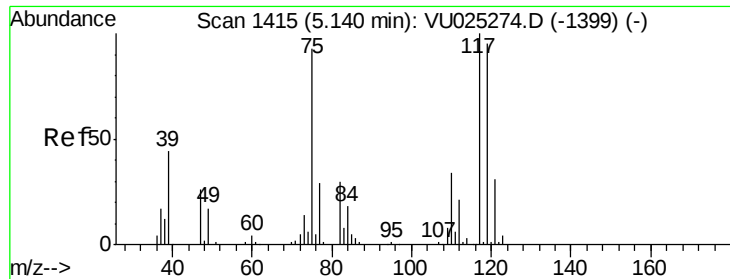
#35
 Dibromofluoromethane
 Concen: 45.92 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. -0.00 min
 Lab File: VU025350.D
 Acq: 12 Jul 2018 19:33

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.7	122.5
192	21.1	17.1	25.7



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

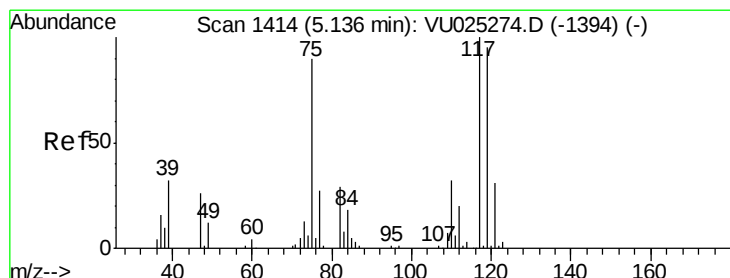
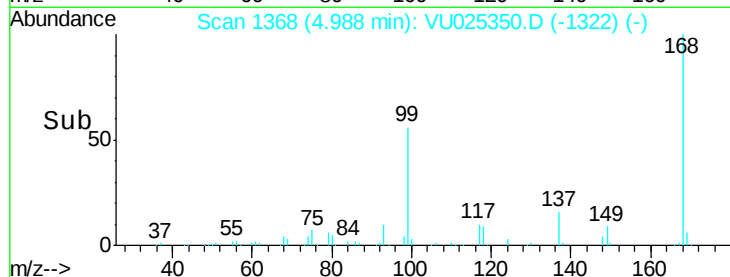
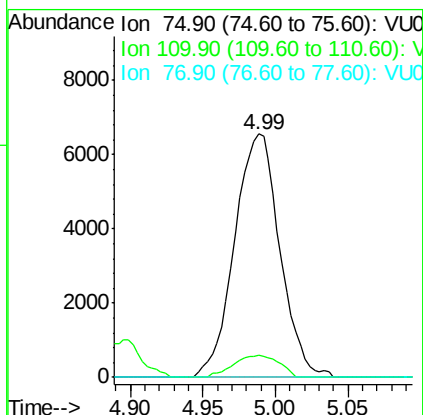
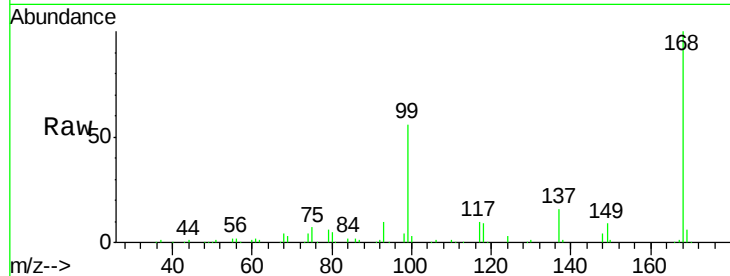




#36
 1,1-Dichloropropene
 Concen: 4.16 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025350.D
 Acq: 12 Jul 2018 19:33

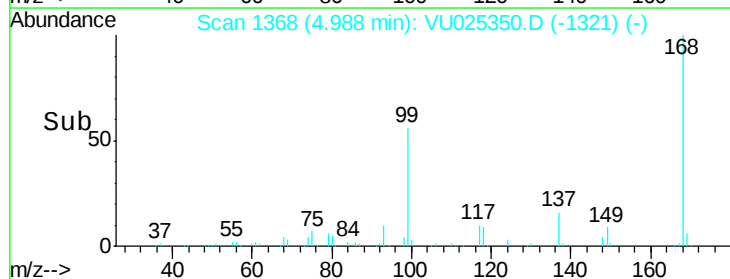
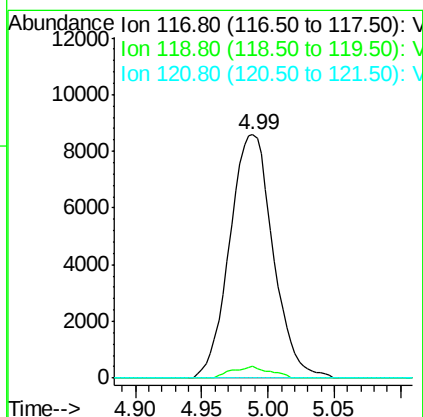
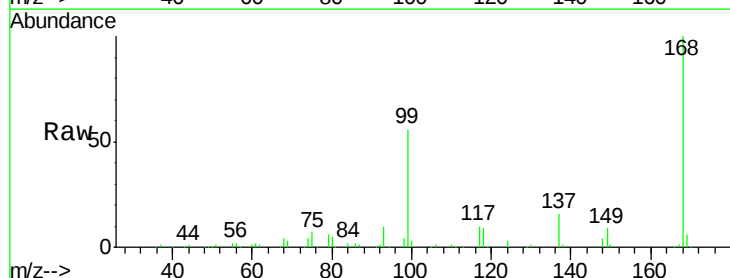
Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044ZHE#05

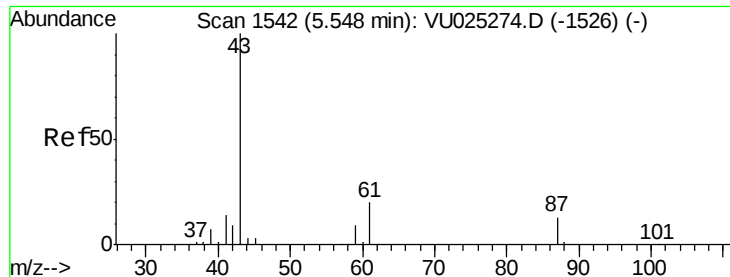
Tot Ion: 75 Resp: 14257
 Ion Ratio Lower Upper
 75 100
 110 9.1 17.6 52.9#
 77 0.0 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 5.31 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025350.D
 Acq: 12 Jul 2018 19:33

Tgt Ion: 117 Resp: 19567
 Ion Ratio Lower Upper
 117 100
 119 4.7 75.7 113.5#
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 7.88 ug/l

RT: 5.76 min Scan# 1607

Delta R.T. 0.21 min

Lab File: VU025350.D

Acq: 12 Jul 2018 19:33

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#05

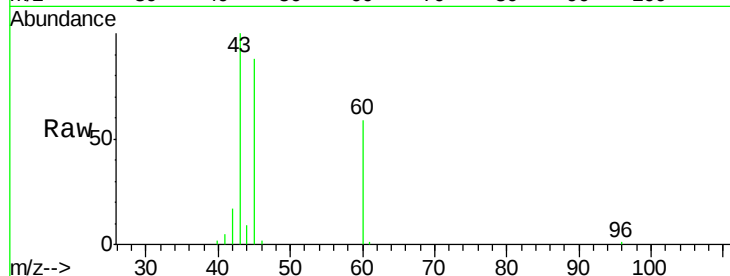
Tot Ion: 43 Resp: 48188

Ion Ratio Lower Upper

43 100

61 0.3 15.5 23.3#

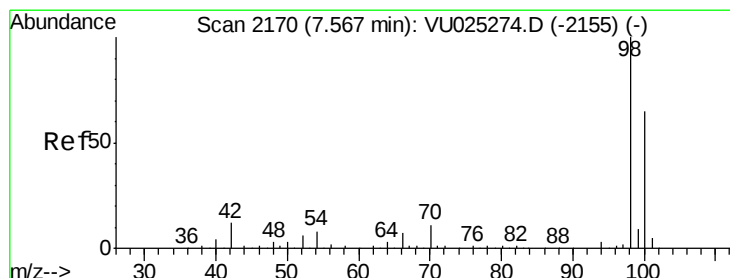
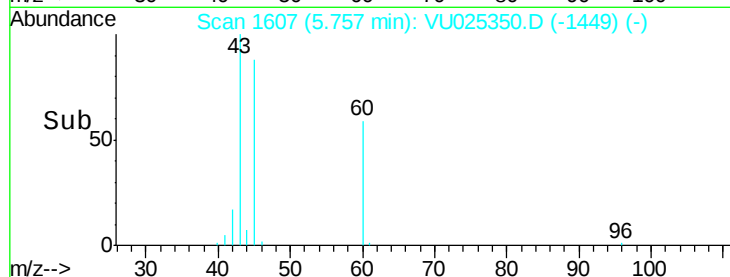
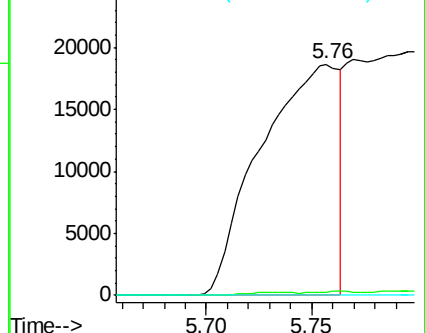
87 0.0 10.6 16.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#50

Toluene-d8

Concen: 49.26 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU025350.D

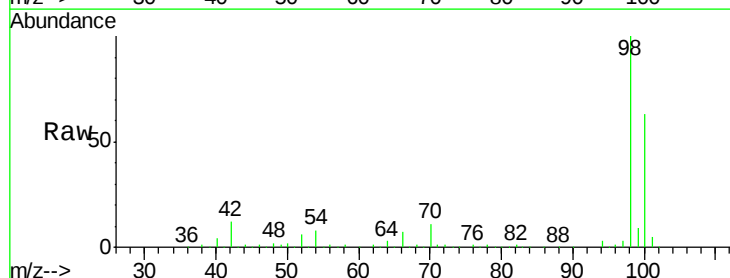
Acq: 12 Jul 2018 19:33

Tgt Ion: 98 Resp: 438381

Ion Ratio Lower Upper

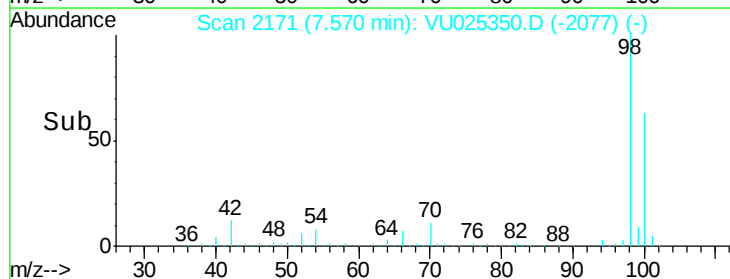
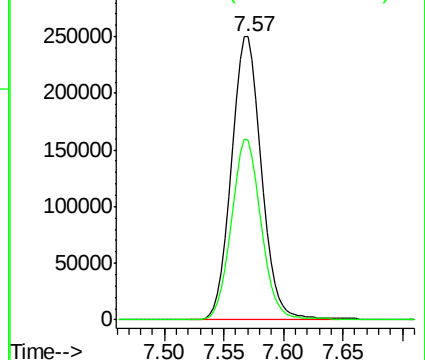
98 100

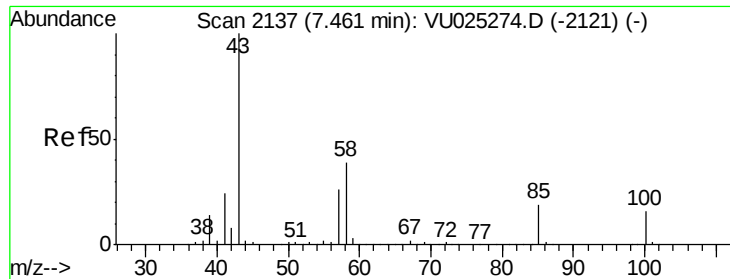
100 63.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 0.24 ug/l

RT: 7.47 min Scan# 2141

Delta R.T. 0.01 min

Lab File: VU025350.D

Acq: 12 Jul 2018 19:33

Instrument :

MSVOA_U

ClientSampleId :

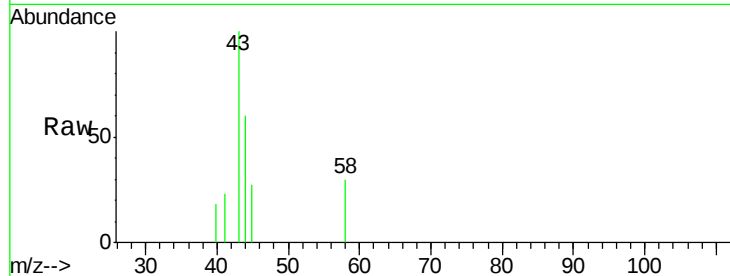
PB111044ZHE#05

Tot Ion: 43 Resp: 966

Ion Ratio Lower Upper

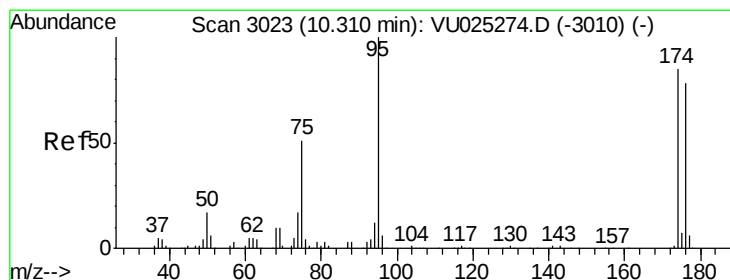
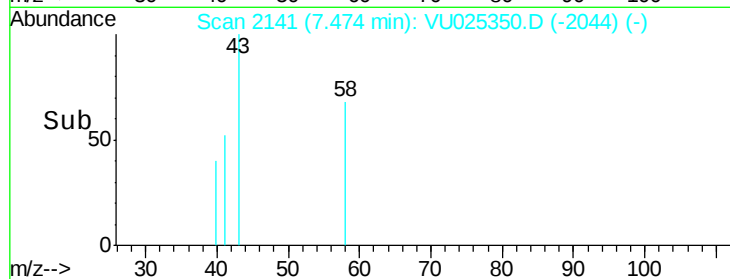
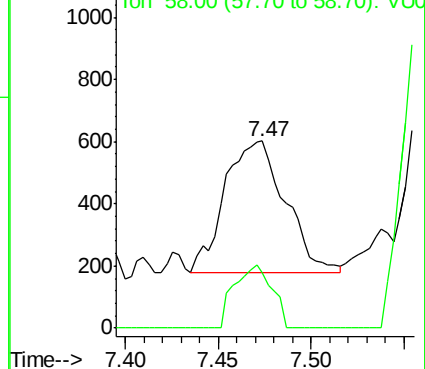
43 100

58 29.8 31.0 46.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#62

4-Bromofluorobenzene

Concen: 44.77 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU025350.D

Acq: 12 Jul 2018 19:33

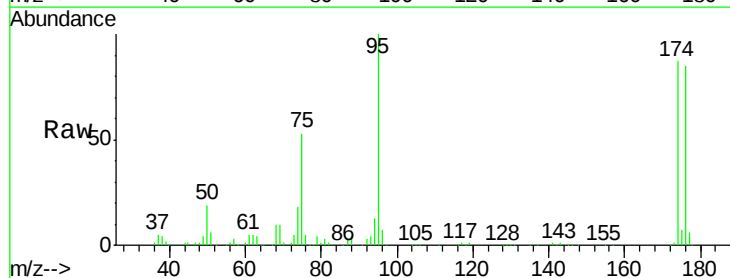
Tgt Ion: 95 Resp: 160414

Ion Ratio Lower Upper

95 100

174 86.5 0.0 172.2

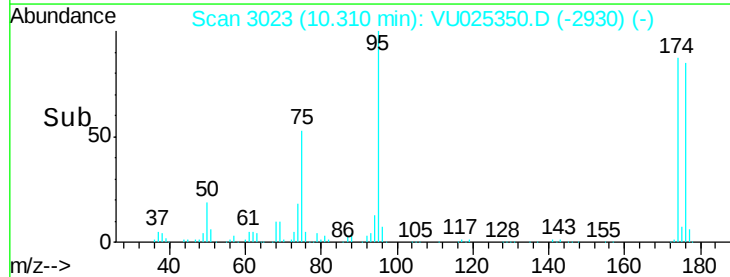
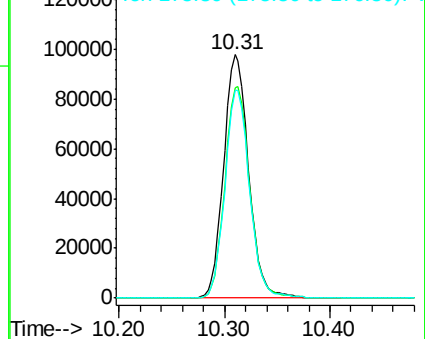
176 84.3 0.0 162.6

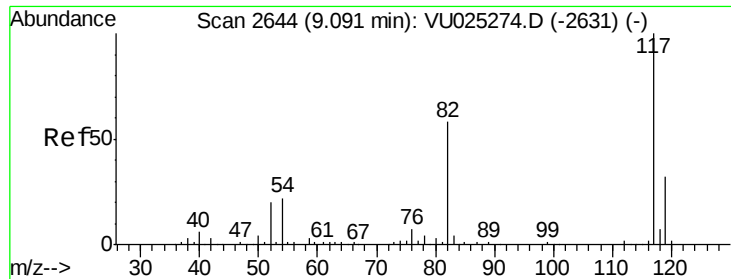


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VU025350.D

Acq: 12 Jul 2018 19:33

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#05

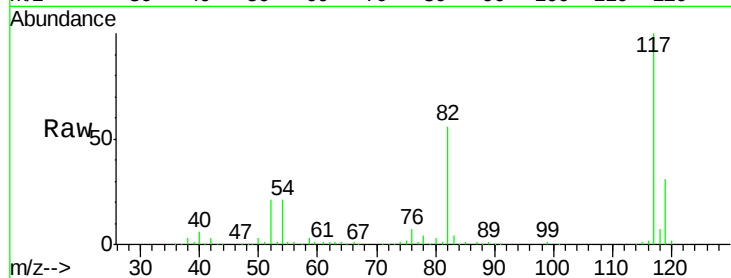
Tot Ion:117 Resp: 284873

Ion Ratio Lower Upper

117 100

82 55.7 46.0 69.0

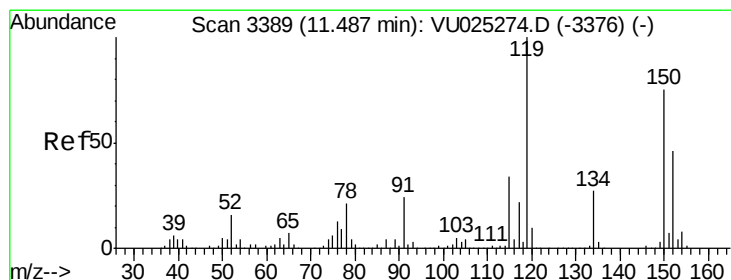
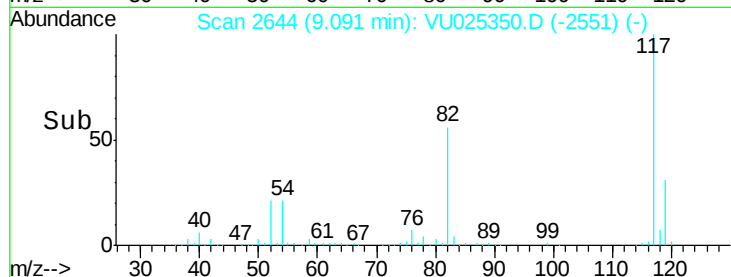
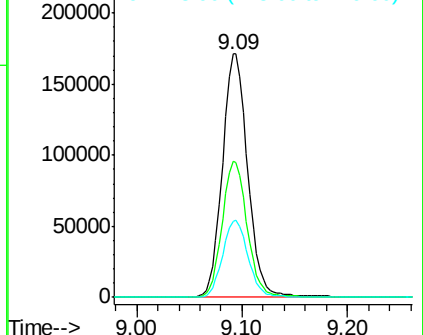
119 31.4 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU025350.D

Acq: 12 Jul 2018 19:33

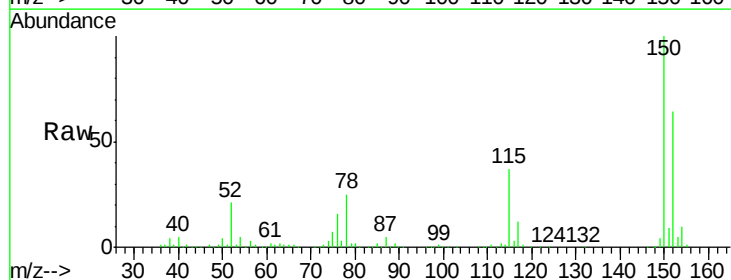
Tgt Ion:152 Resp: 149045

Ion Ratio Lower Upper

152 100

115 56.9 40.1 120.3

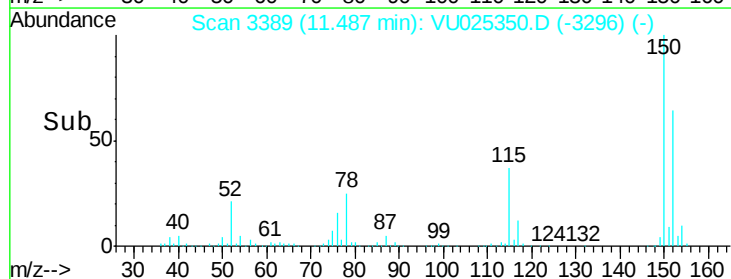
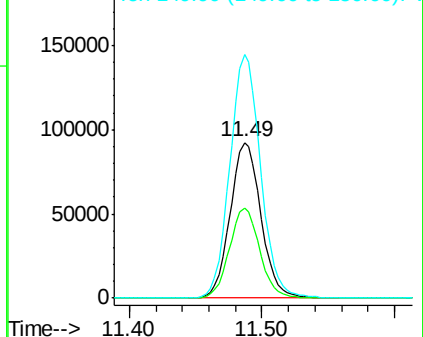
150 156.5 0.0 351.4

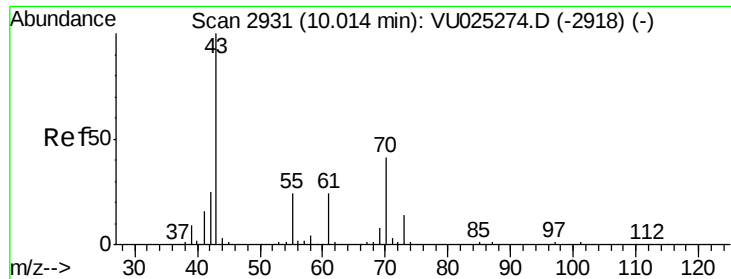


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.29 ug/l

RT: 10.01 min Scan# 2931

Delta R.T. -0.00 min

Lab File: VU025350.D

Acq: 12 Jul 2018 19:33

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#05

Tot Ion: 43 Resp: 83

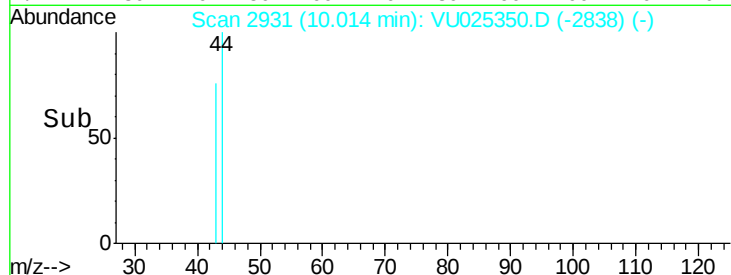
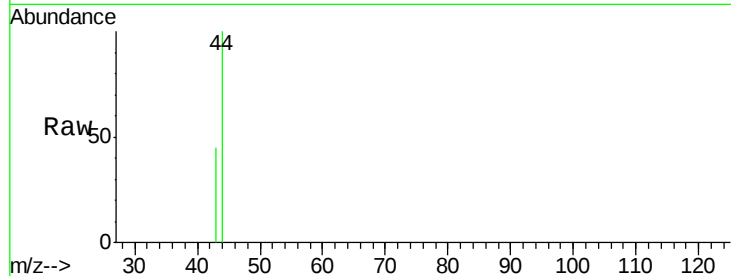
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.2#

55 0.0 19.0 28.6#

61 0.0 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

500

400

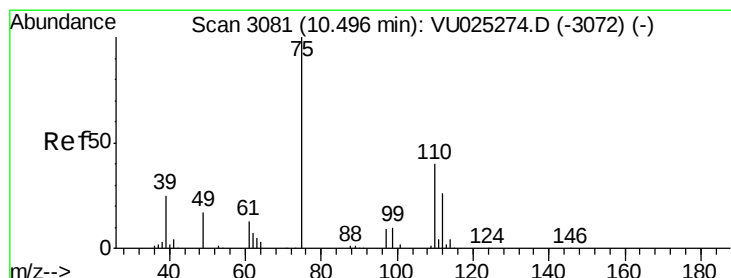
300

200

100

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 28.17 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025350.D

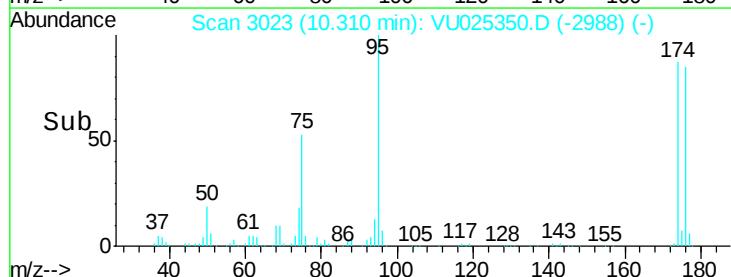
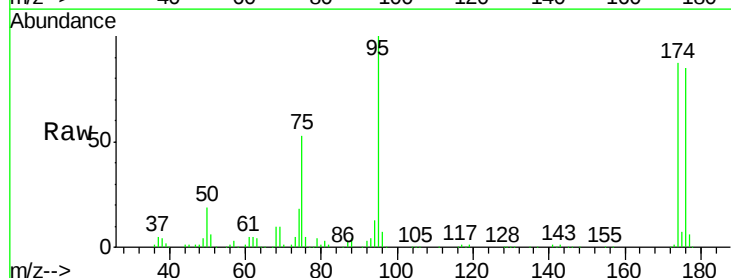
Acq: 12 Jul 2018 19:33

Tgt Ion: 75 Resp: 85475

Ion Ratio Lower Upper

75 100

77 0.9 20.4 61.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

60000

50000

40000

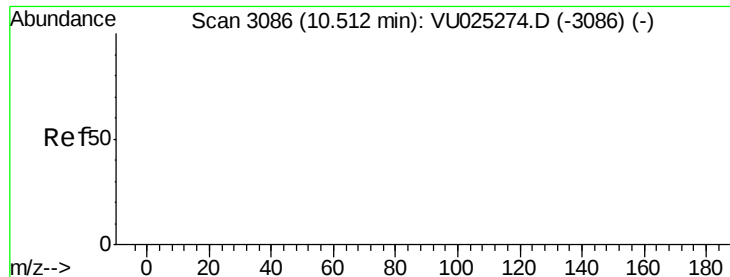
30000

20000

10000

0

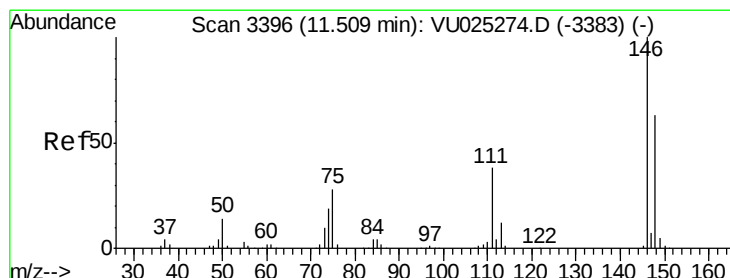
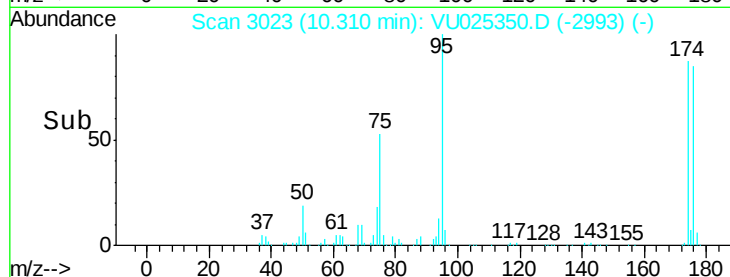
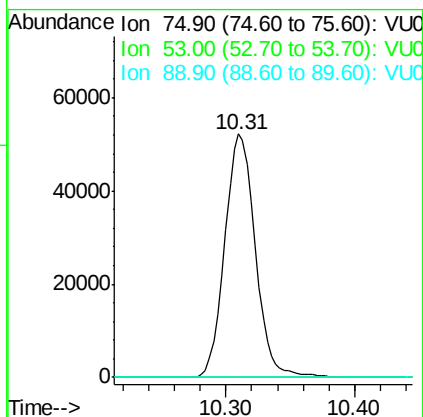
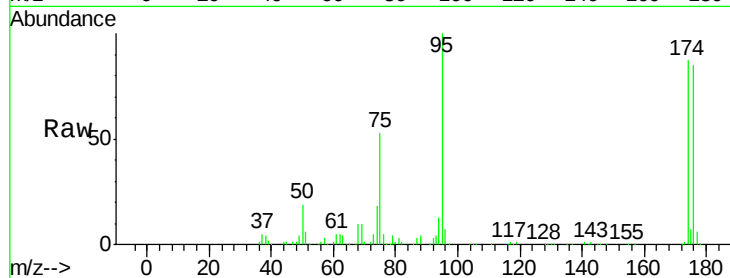
Time-->



#81
trans-1,4-Dichloro-2-butene
Concen: 71.98 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.20 min
Lab File: VU025350.D
Acq: 12 Jul 2018 19:33

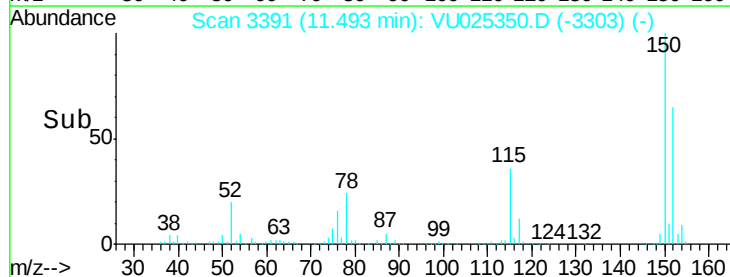
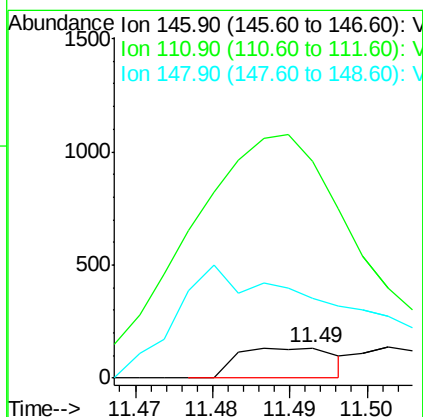
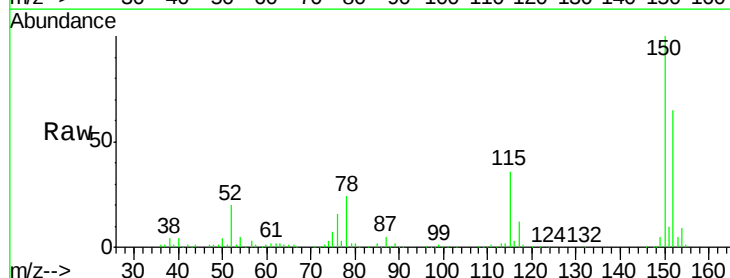
Instrument :
MSVOA_U
ClientSampleId :
PB111044ZHE#05

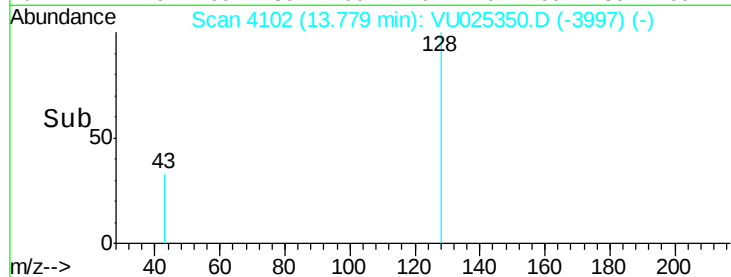
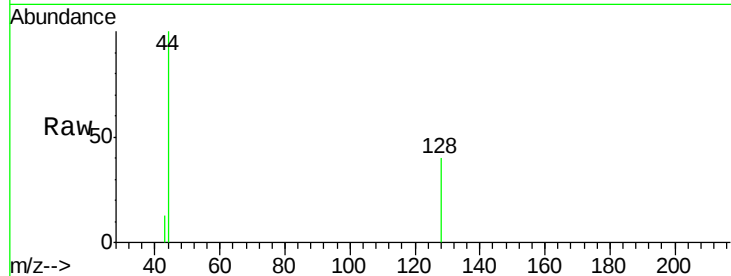
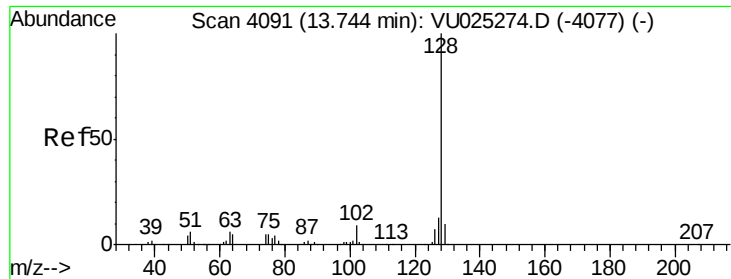
Tot Ion: 75 Resp: 85475
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#88
1,4-Dichlorobenzene
Concen: 1.51 ug/l
RT: 11.49 min Scan# 3391
Delta R.T. -0.02 min
Lab File: VU025350.D
Acq: 12 Jul 2018 19:33

Tgt Ion: 146 Resp: 117
Ion Ratio Lower Upper
146 100
111 1446.2 19.4 58.1#
148 657.3 31.7 95.1#





#95

Napthalene

Concen: 2.46 ug/l

RT: 13.78 min Scan# 4102

Delta R.T. 0.04 min

Lab File: VU025350.D

Acq: 12 Jul 2018 19:33

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#05

Tot Ion:128 Resp: 486

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.3 12.5#

