

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025349.D
 Acq On : 12 Jul 2018 19:09
 Operator : MD/SY
 Sample : PB111044ZHE#04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044ZHE#04

Quant Time: Jul 13 01:13:13 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	193733	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	300340	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	275778	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	146203	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	149817	49.77	ug/l	0.00
Spiked Amount			Recovery	=	99.54%	
35) Dibromofluoromethane	4.89	113	116875	46.13	ug/l	0.00
Spiked Amount			Recovery	=	92.26%	
50) Toluene-d8	7.57	98	424584	48.94	ug/l	0.00
Spiked Amount			Recovery	=	97.88%	
62) 4-Bromofluorobenzene	10.31	95	157606	45.12	ug/l	0.00
Spiked Amount			Recovery	=	90.24%	

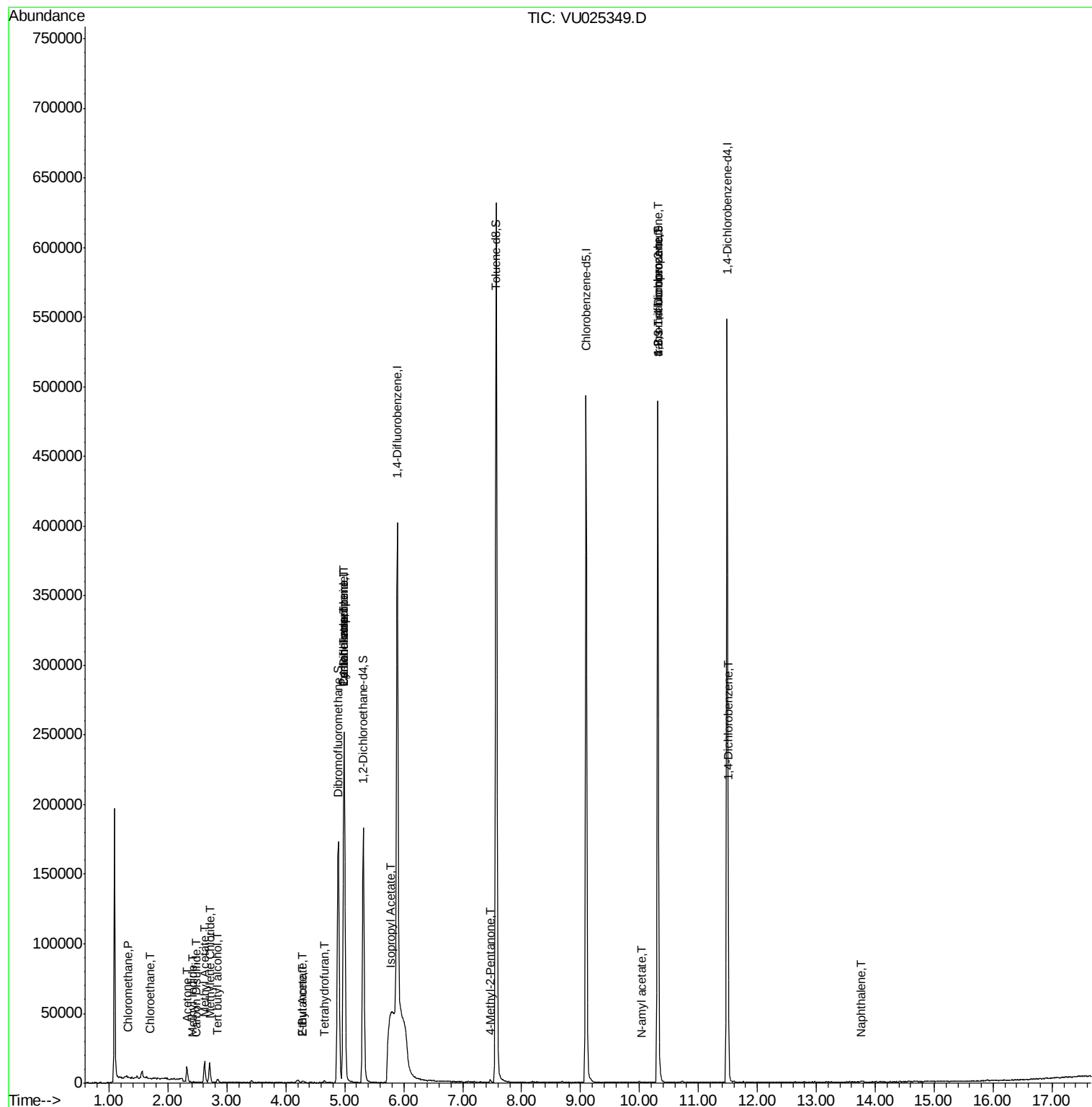
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	443	0.78	ug/l #	42
5) Bromomethane	1.63	94	357	Below Cal	#	78
6) Chloroethane	1.69	64	19	0.30	ug/l #	43
10) Methyl Iodide	2.41	142	48	7.72	ug/l #	39
11) Tert butyl alcohol	2.83	59	764	1.16	ug/l #	73
16) Acetone	2.32	43	12264	12.70	ug/l	95
17) Carbon Disulfide	2.47	76	159	1.96	ug/l #	74
18) Methyl Acetate	2.62	43	18243	5.92	ug/l	97
20) Methylene Chloride	2.71	84	5955	3.21	ug/l	97
25) 2-Butanone	4.28	43	2237	1.07	ug/l #	81
29) Tetrahydrofuran	4.65	42	803	0.64	ug/l #	54
31) Cyclohexane	4.99	56	4235	1.84	ug/l #	41
36) 1,1-Dichloropropene	4.99	75	13894	4.16	ug/l #	49
37) Ethyl Acetate	4.28	43	2237	0.60	ug/l #	69
38) Carbon Tetrachloride	4.99	117	19273	5.36	ug/l #	18
43) Isopropyl Acetate	5.78	43	65972	11.06	ug/l #	61
51) 4-Methyl-2-Pentanone	7.46	43	1155	0.30	ug/l #	81
74) N-amyl acetate	10.03	43	81	1.28	ug/l #	43
76) 1,2,3-Trichloropropane	10.31	75	81223	27.32	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	81223	69.73	ug/l #	100
88) 1,4-Dichlorobenzene	11.51	146	67	1.50	ug/l #	25
95) Naphthalene	13.75	128	502	2.46	ug/l #	69

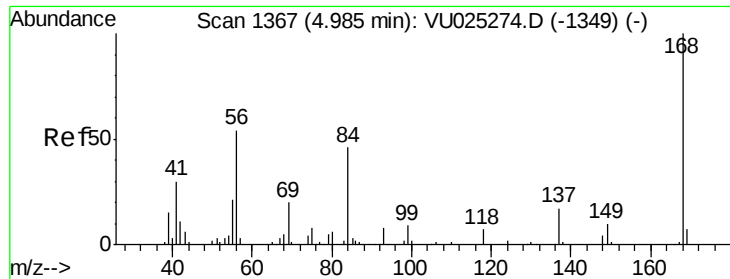
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 10 09:34:16 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025349.D

Acq: 12 Jul 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

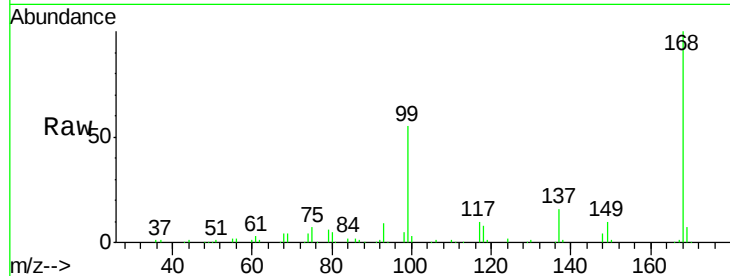
PB111044ZHE#04

Tot Ion:168 Resp: 193733

Ion Ratio Lower Upper

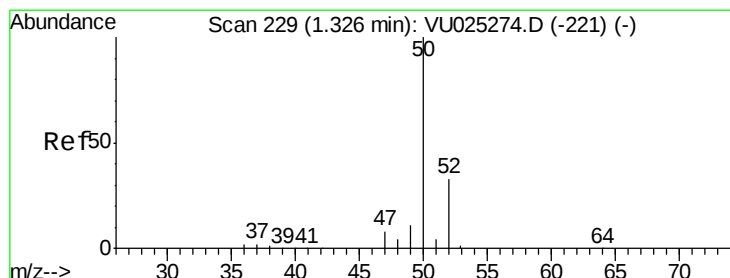
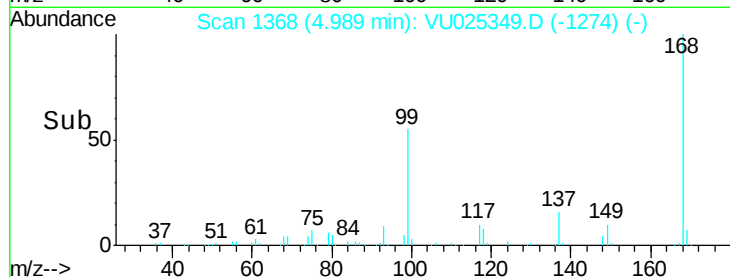
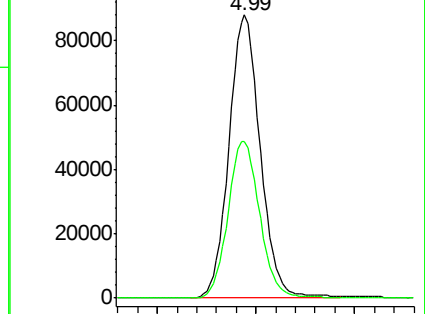
168 100

99 55.5 42.8 64.2



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

Ion 98.90 (98.60 to 99.60): VU025274.D (-1349) (-)



#3

Chloromethane

Concen: 0.78 ug/l

RT: 1.33 min Scan# 229

Delta R.T. 0.00 min

Lab File: VU025349.D

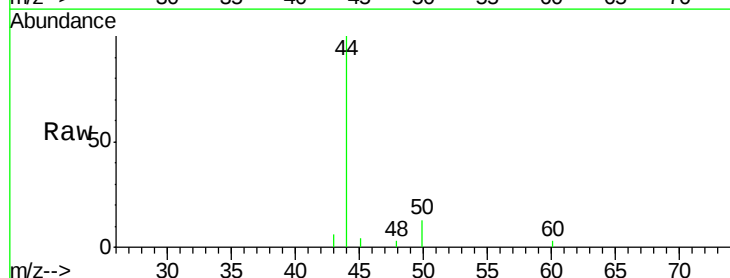
Acq: 12 Jul 2018 19:09

Tgt Ion: 50 Resp: 443

Ion Ratio Lower Upper

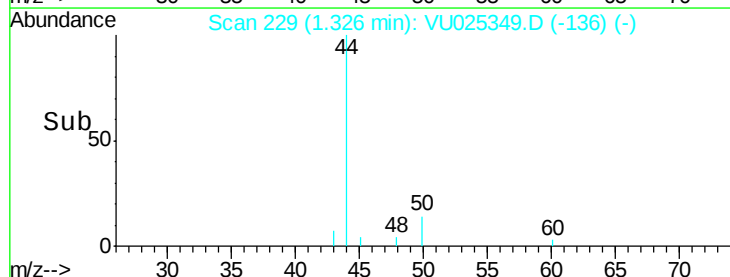
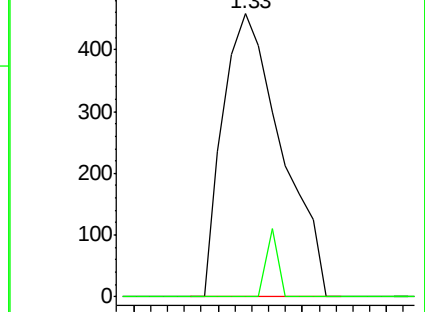
50 100

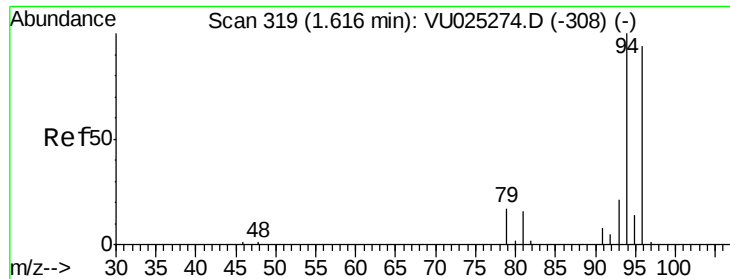
52 0.0 26.5 39.7#



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

Ion 51.90 (51.60 to 52.60): VU025274.D (-221) (-)





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 324

Delta R.T. 0.02 min

Lab File: VU025349.D

Acq: 12 Jul 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

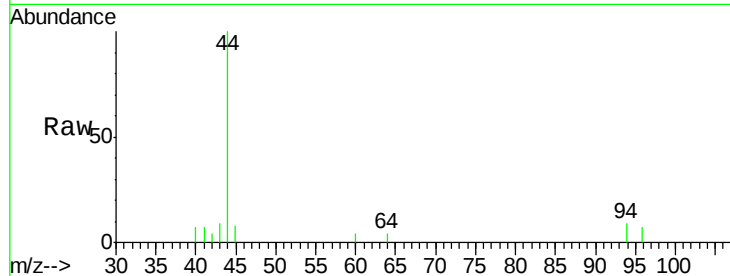
PB111044ZHE#04

Tot Ion: 94 Resp: 357

Ion Ratio Lower Upper

94 100

96 72.8 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.63

250

200

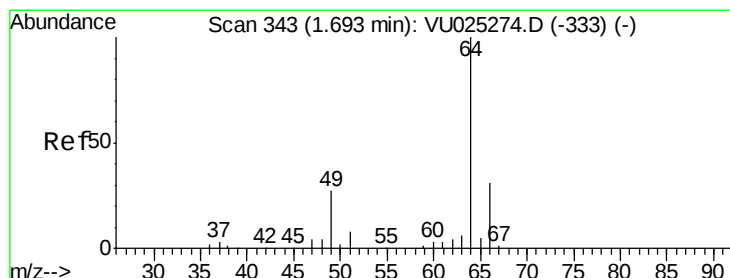
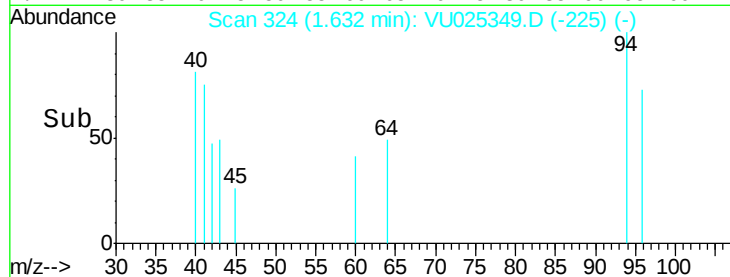
150

100

50

0

Time-->



#6

Chloroethane

Concen: 0.30 ug/l

RT: 1.69 min Scan# 342

Delta R.T. -0.00 min

Lab File: VU025349.D

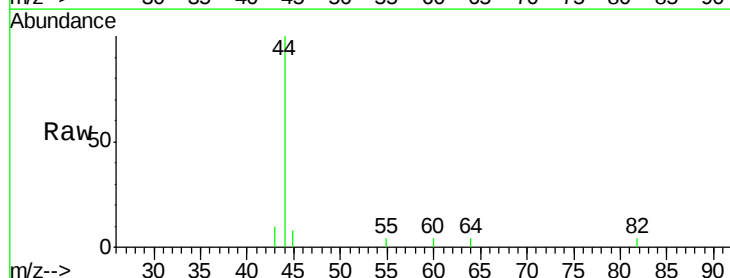
Acq: 12 Jul 2018 19:09

Tgt Ion: 64 Resp: 19

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

1.69

120

100

80

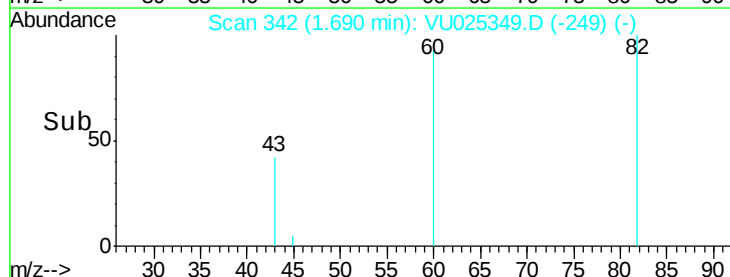
60

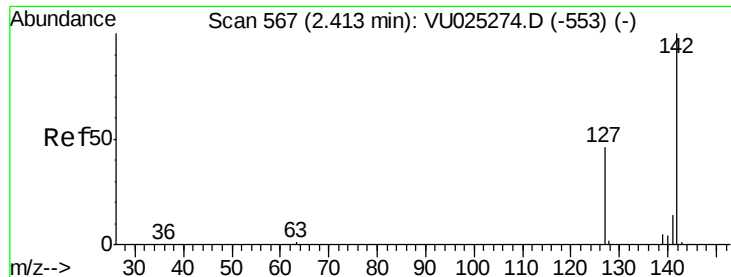
40

20

0

Time-->

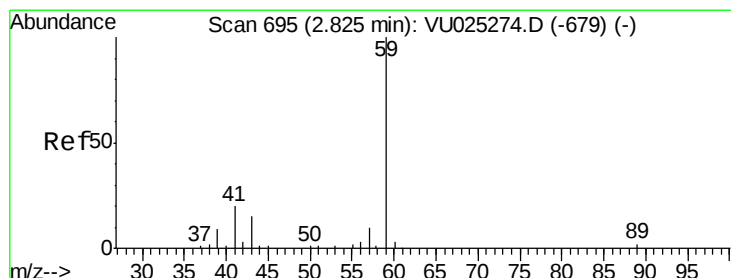
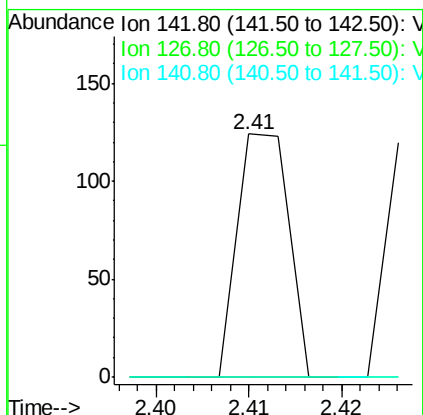
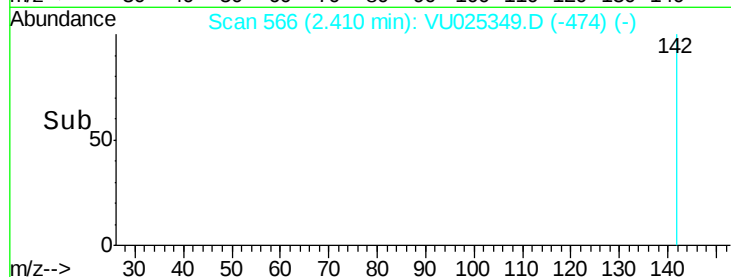
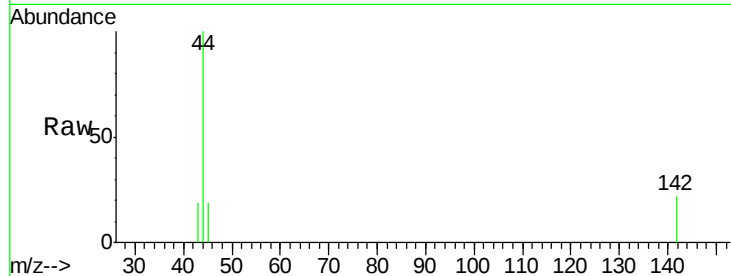




#10
Methvl Iodide
Concen: 7.72 ug/l
RT: 2.41 min Scan# 566
Delta R.T. -0.00 min
Lab File: VU025349.D
Acq: 12 Jul 2018 19:09

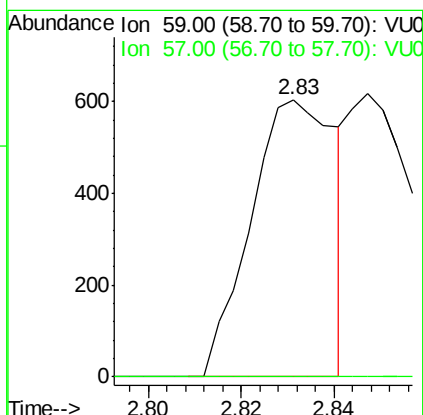
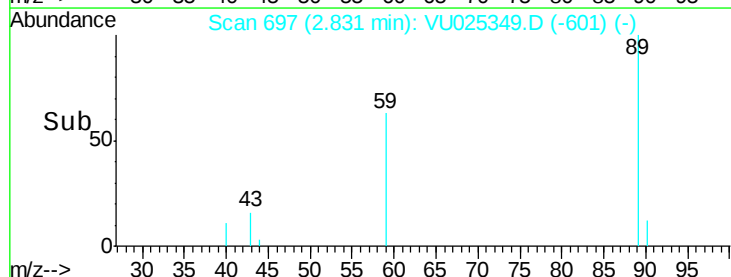
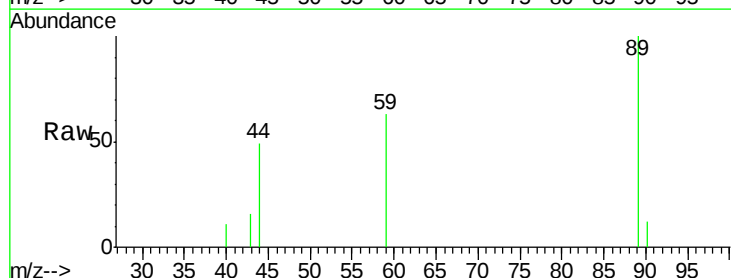
Instrument :
MSVOA_U
ClientSampleId :
PB111044ZHE#04

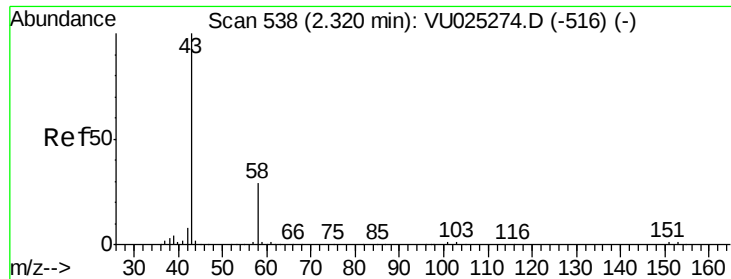
Tot Ion:142 Resp: 48
Ion Ratio Lower Upper
142 100
127 0.0 36.5 54.7#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 1.16 ug/l
RT: 2.83 min Scan# 697
Delta R.T. 0.01 min
Lab File: VU025349.D
Acq: 12 Jul 2018 19:09

Tgt Ion: 59 Resp: 764
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#16

Acetone

Concen: 12.70 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025349.D

Acq: 12 Jul 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

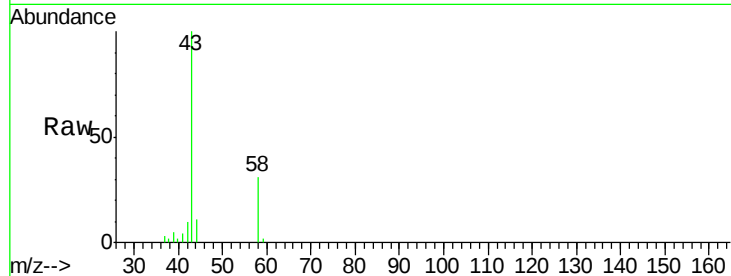
PB111044ZHE#04

Tot Ion: 43 Resp: 12264

Ion Ratio Lower Upper

43 100

58 31.4 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

6000

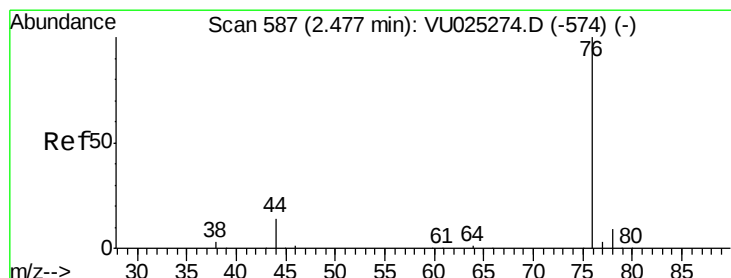
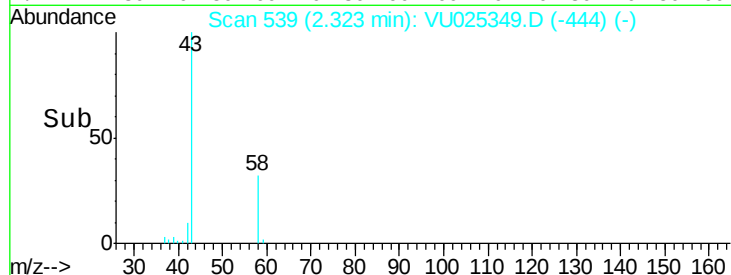
4000

2000

0

Time-->

2.25 2.30 2.35 2.40



#17

Carbon Disulfide

Concen: 1.96 ug/l

RT: 2.47 min Scan# 585

Delta R.T. -0.01 min

Lab File: VU025349.D

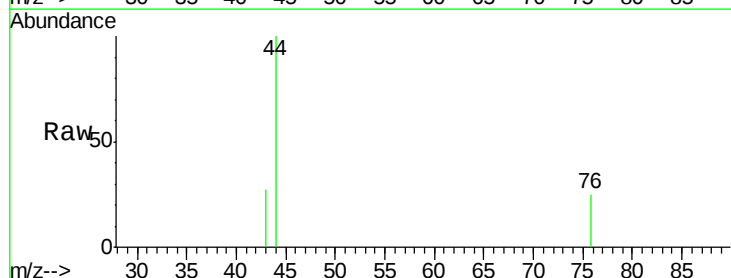
Acq: 12 Jul 2018 19:09

Tgt Ion: 76 Resp: 159

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

2.47

150

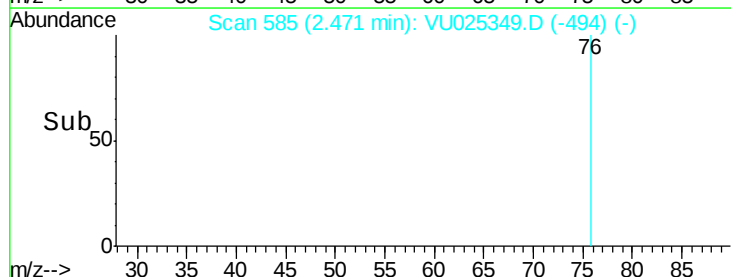
100

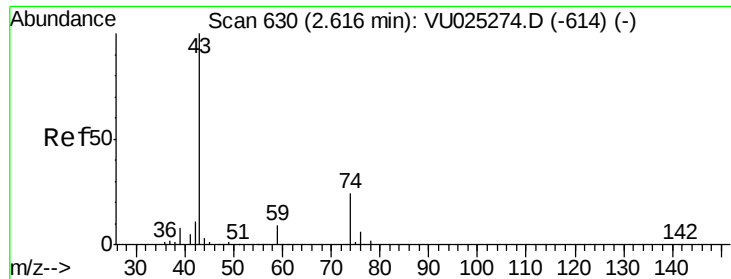
50

0

Time-->

2.46 2.48 2.50

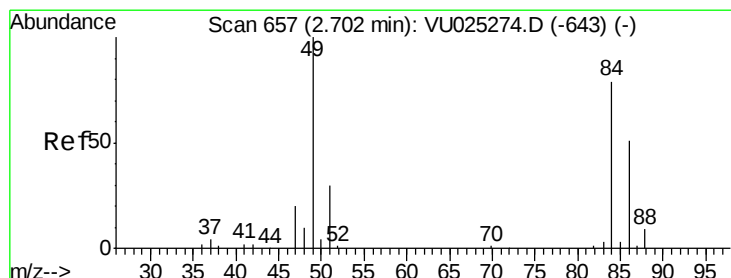
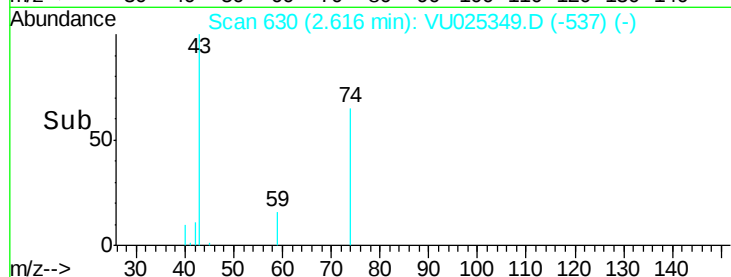
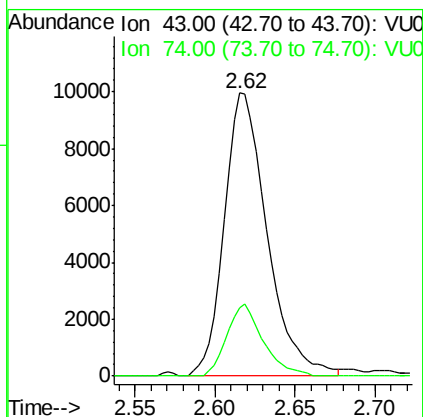
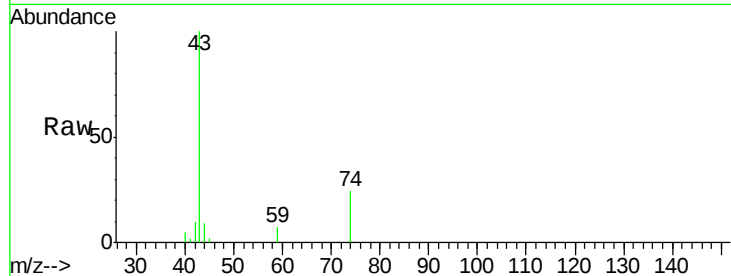




#18
Methyl Acetate
Concen: 5.92 ug/l
RT: 2.62 min Scan# 630
Delta R.T. 0.00 min
Lab File: VU025349.D
Acq: 12 Jul 2018 19:09

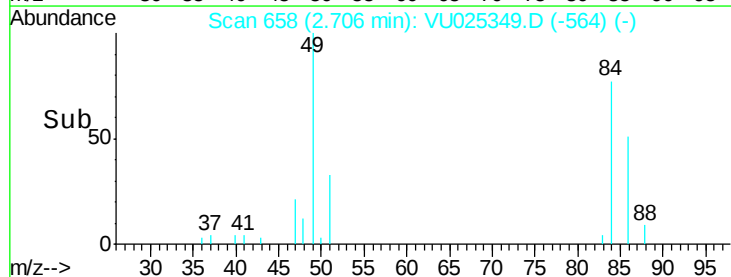
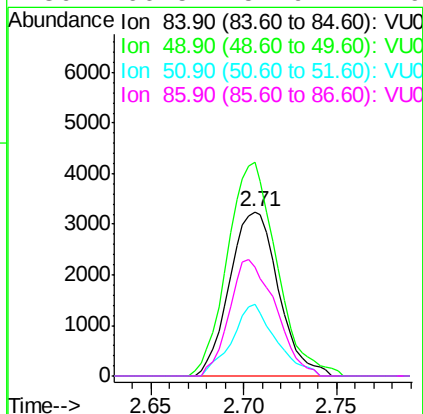
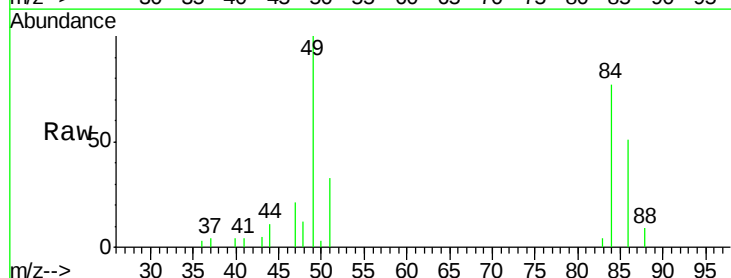
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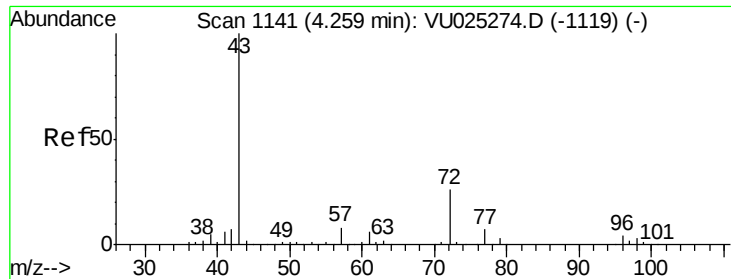
Tot Ion: 43 Resp: 18243
Ion Ratio Lower Upper
43 100
74 21.4 18.5 27.7



#20
Methylene Chloride
Concen: 3.21 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU025349.D
Acq: 12 Jul 2018 19:09

Tgt Ion: 84 Resp: 5955
Ion Ratio Lower Upper
84 100
49 130.0 101.8 152.6
51 43.3 30.8 46.2
86 66.5 51.9 77.9

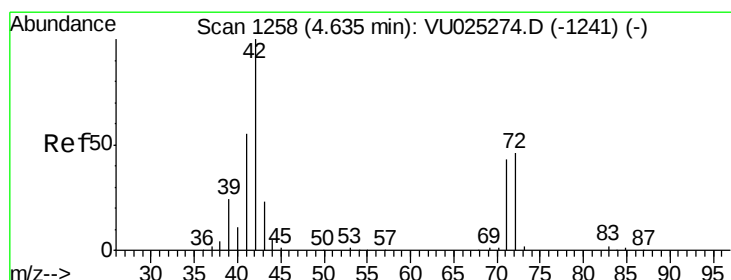
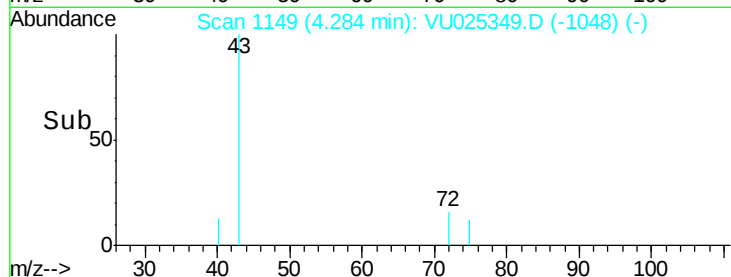
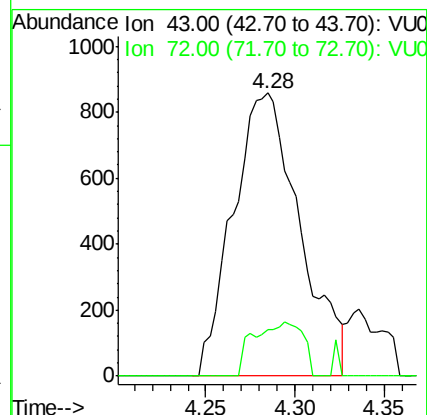
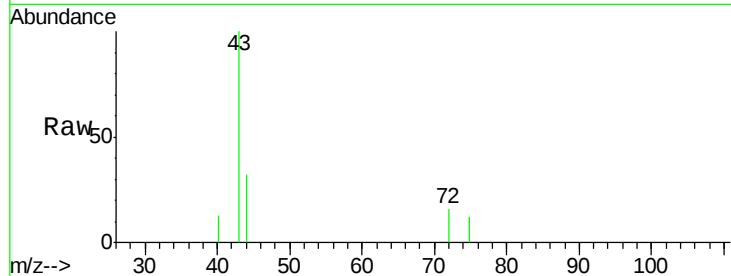




#25
2-Butanone
Concen: 1.07 ug/l
RT: 4.28 min Scan# 1149
Delta R.T. 0.03 min
Lab File: VU025349.D
Acq: 12 Jul 2018 19:09

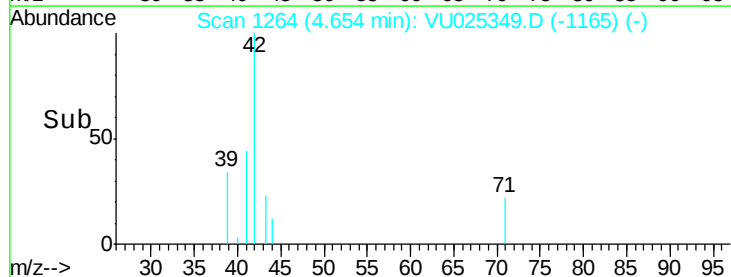
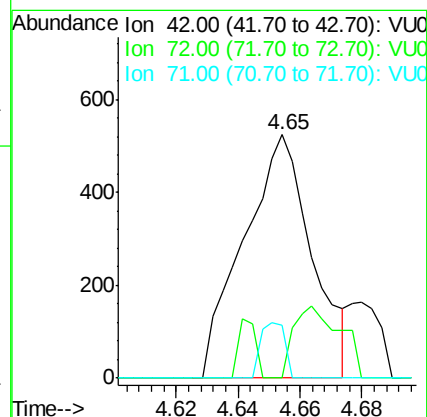
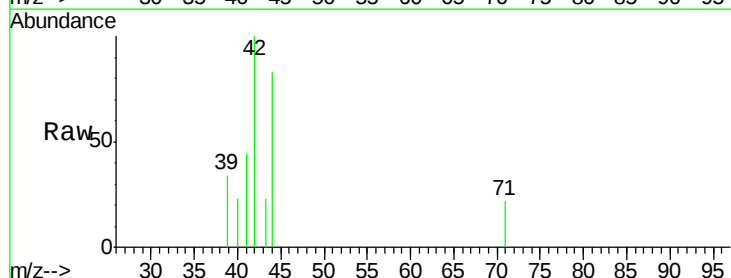
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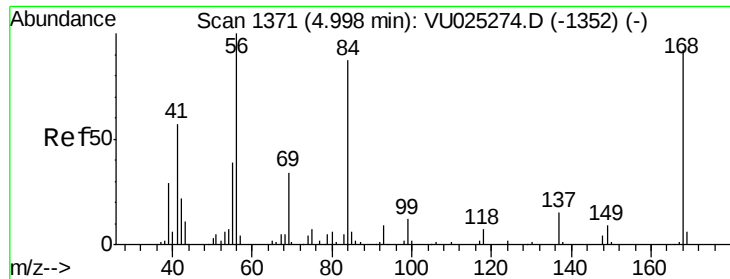
Tot Ion: 43 Resp: 2237
Ion Ratio Lower Upper
43 100
72 16.3 21.0 31.4#



#29
Tetrahydrofuran
Concen: 0.64 ug/l
RT: 4.65 min Scan# 1264
Delta R.T. 0.02 min
Lab File: VU025349.D
Acq: 12 Jul 2018 19:09

Tgt Ion: 42 Resp: 803
Ion Ratio Lower Upper
42 100
72 20.2 36.7 55.1#
71 8.1 33.9 50.9#

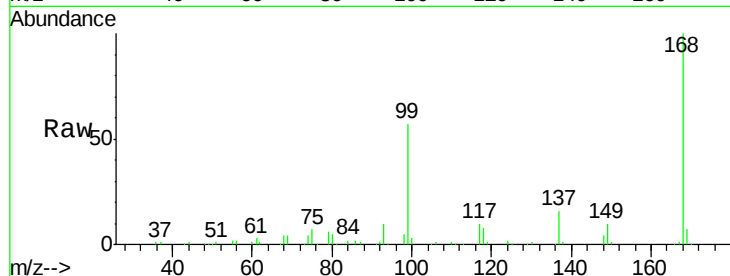




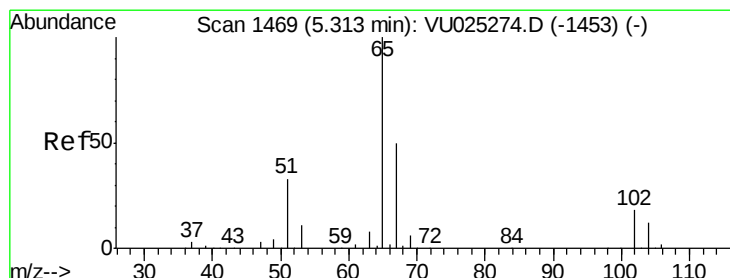
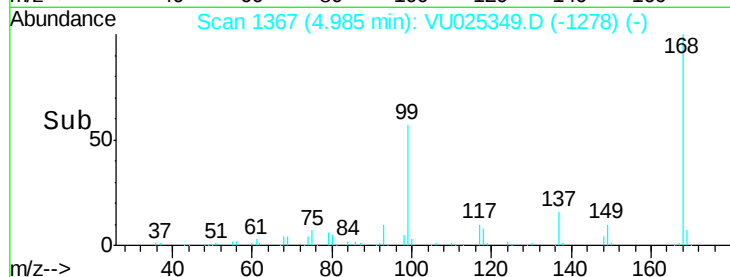
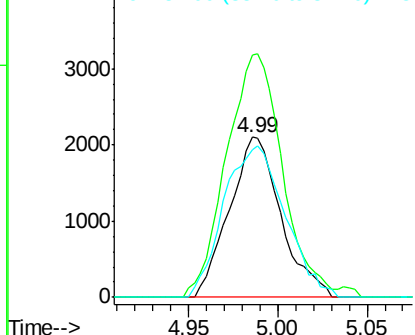
#31
Cyclohexane
Concen: 1.84 ug/l
RT: 4.99 min Scan# 1367
Delta R.T. -0.01 min
Lab File: VU025349.D
Acq: 12 Jul 2018 19:09

Instrument :
MSVOA_U
ClientSampleId :
PB111044ZHE#04

Tot Ion: 56 Resp: 4235
Ion Ratio Lower Upper
56 100
69 146.3 26.8 40.2#
84 92.4 69.7 104.5

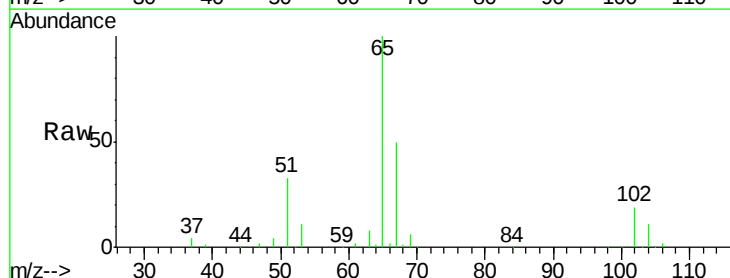


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

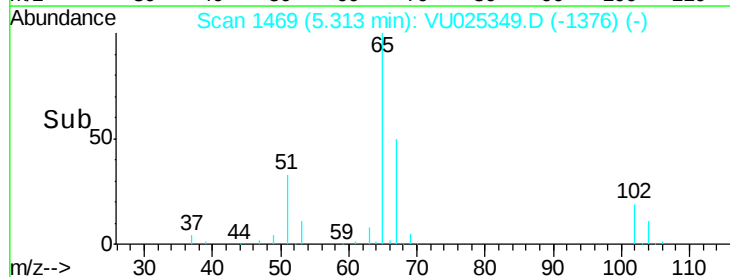
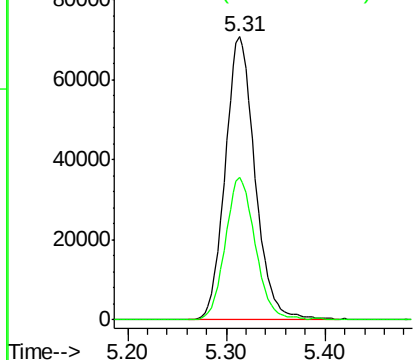


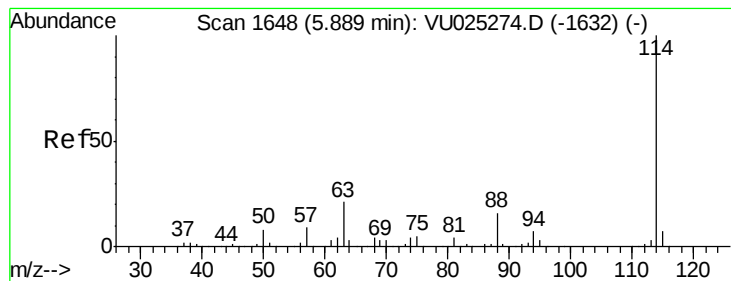
#33
1,2-Dichloroethane-d4
Concen: 49.77 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU025349.D
Acq: 12 Jul 2018 19:09

Tgt Ion: 65 Resp: 149817
Ion Ratio Lower Upper
65 100
67 50.4 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: VU025349.D

Acq: 12 Jul 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#04

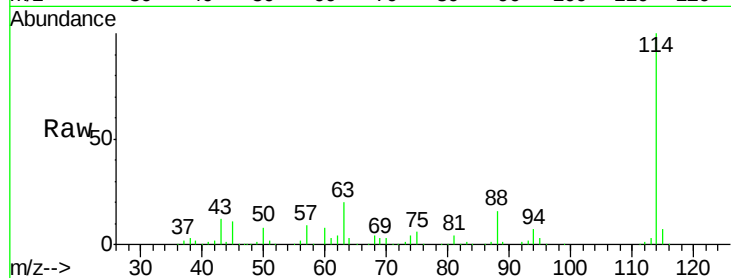
Tot Ion:114 Resp: 300340

Ion Ratio Lower Upper

114 100

63 20.1 0.0 41.6

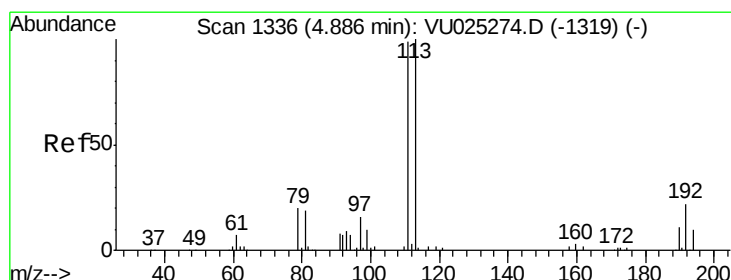
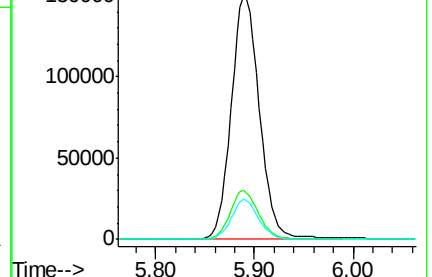
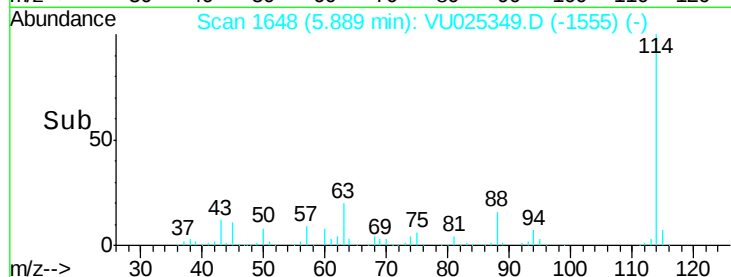
88 16.4 0.0 32.4



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: 46.13 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU025349.D

Acq: 12 Jul 2018 19:09

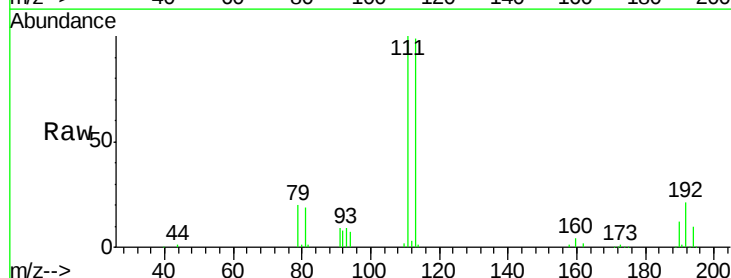
Tgt Ion:113 Resp: 116875

Ion Ratio Lower Upper

113 100

111 101.3 81.7 122.5

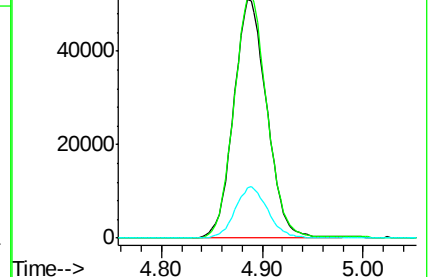
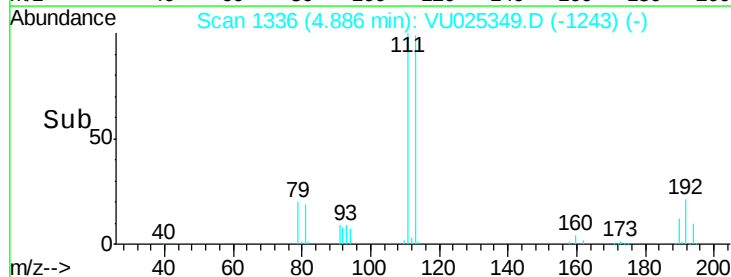
192 21.0 17.1 25.7

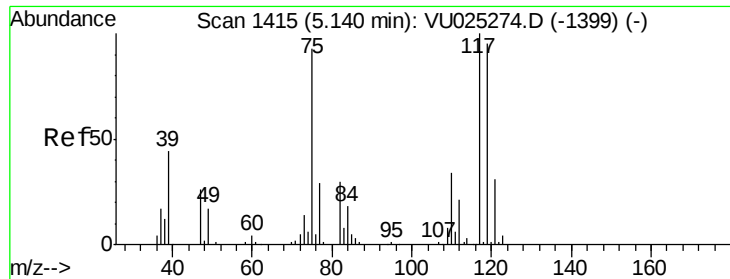


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

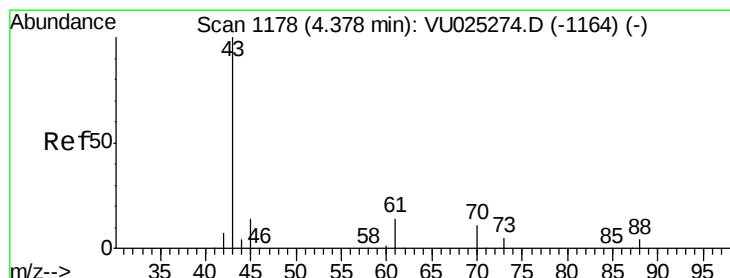
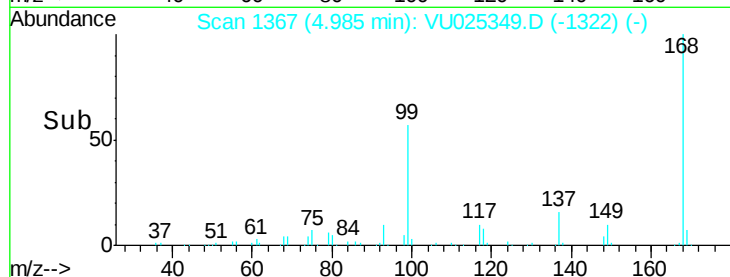
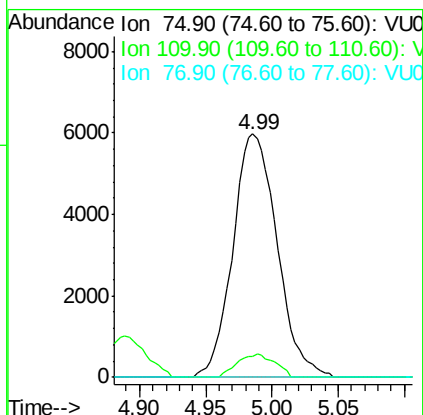
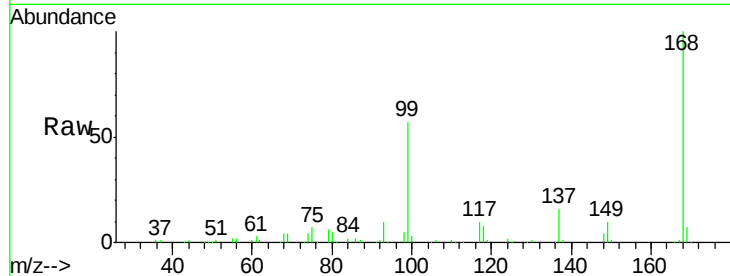




#36
 1,1-Dichloropropene
 Concen: 4.16 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.15 min
 Lab File: VU025349.D
 Acq: 12 Jul 2018 19:09

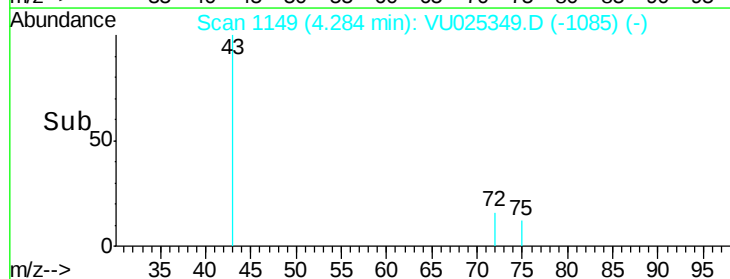
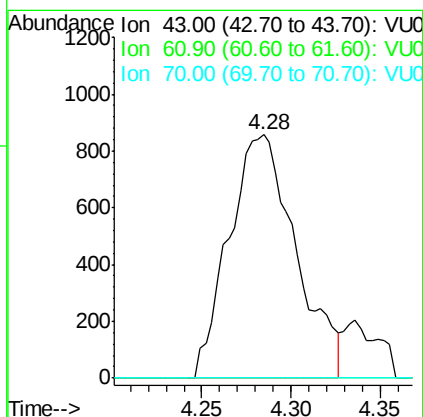
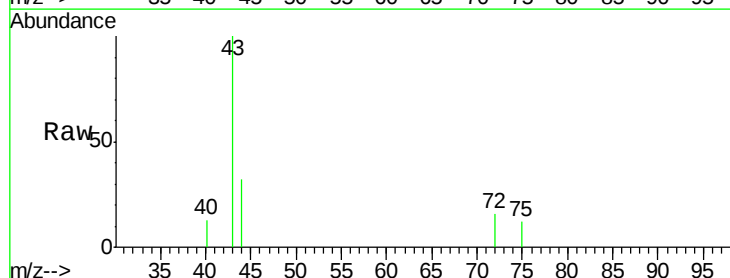
Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044ZHE#04

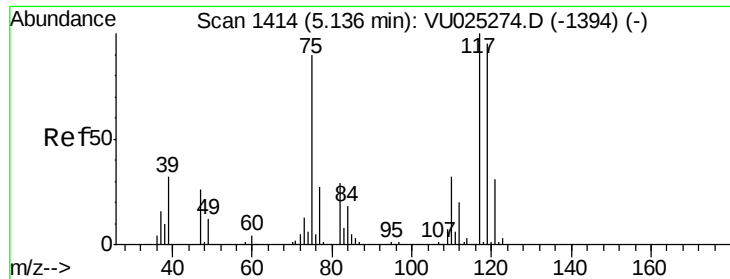
Tot Ion: 75 Resp: 13894
 Ion Ratio Lower Upper
 75 100
 110 8.1 17.6 52.9#
 77 0.0 24.4 36.6#



#37
 Ethyl Acetate
 Concen: 0.60 ug/l
 RT: 4.28 min Scan# 1149
 Delta R.T. -0.09 min
 Lab File: VU025349.D
 Acq: 12 Jul 2018 19:09

Tgt Ion: 43 Resp: 2237
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.7 16.1#
 70 0.0 8.4 12.6#





#38

Carbon Tetrachloride

Concen: 5.36 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025349.D

Acq: 12 Jul 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#04

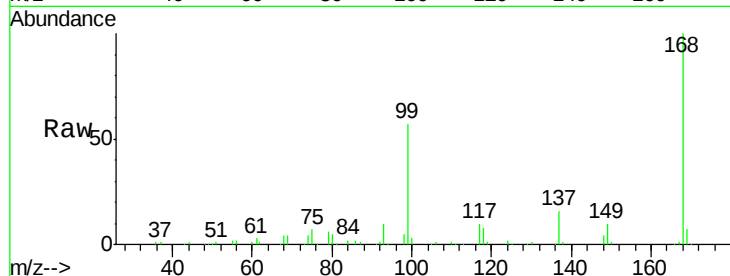
Tot Ion:117 Resp: 19273

Ion Ratio Lower Upper

117 100

119 6.5 75.7 113.5#

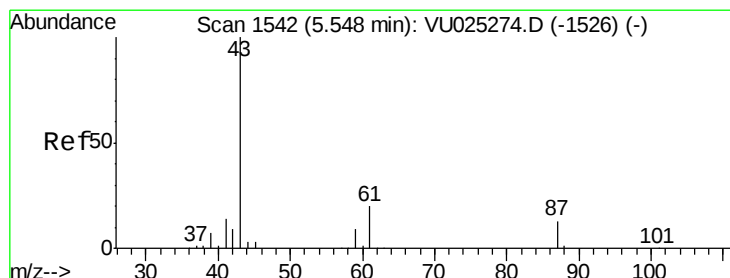
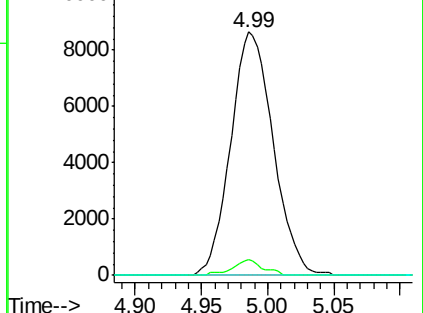
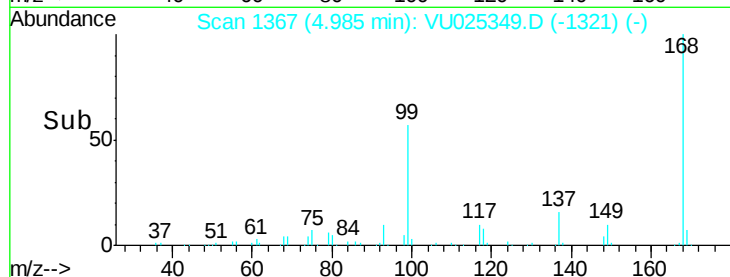
121 0.0 24.6 36.8#



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



#43

Isopropyl Acetate

Concen: 11.06 ug/l

RT: 5.78 min Scan# 1615

Delta R.T. 0.23 min

Lab File: VU025349.D

Acq: 12 Jul 2018 19:09

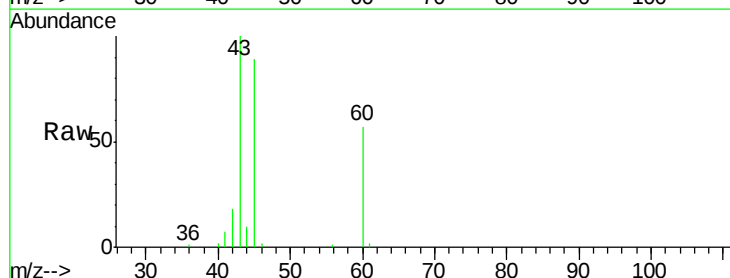
Tgt Ion: 43 Resp: 65972

Ion Ratio Lower Upper

43 100

61 0.2 15.5 23.3#

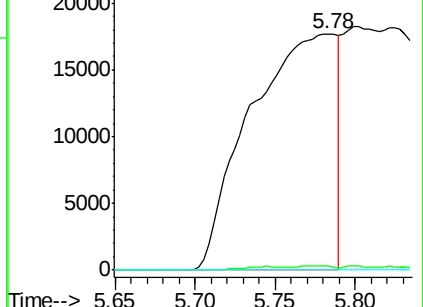
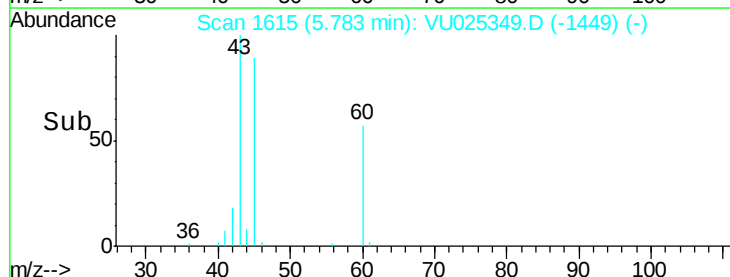
87 0.0 10.6 16.0#

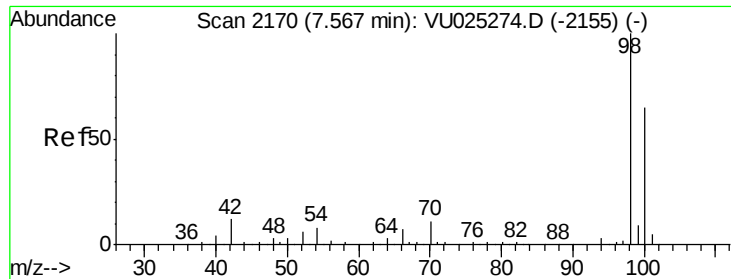


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

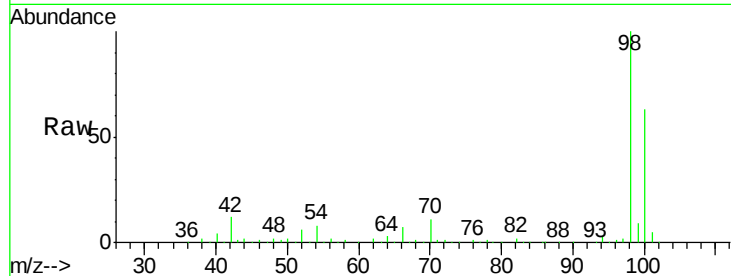




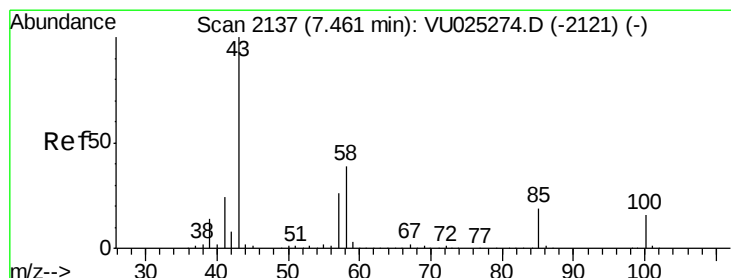
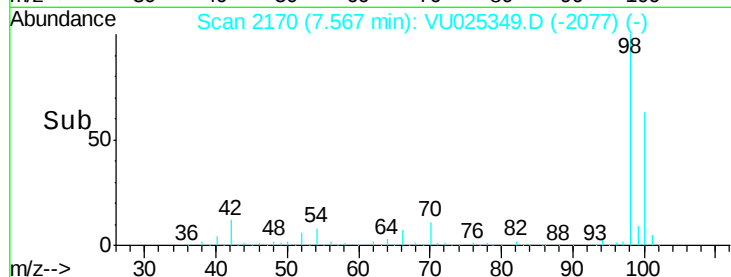
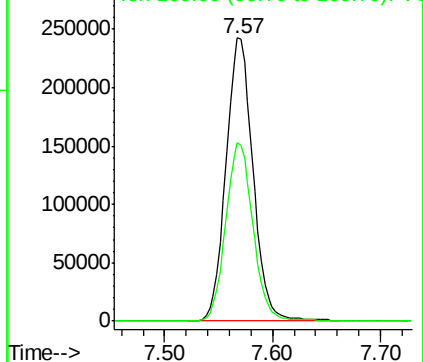
#50
Toluene-d8
Concen: 48.94 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. 0.00 min
Lab File: VU025349.D
Acq: 12 Jul 2018 19:09

Instrument :
MSVOA_U
ClientSampleId :
PB111044ZHE#04

Tot Ion: 98 Resp: 424584
Ion Ratio Lower Upper
98 100
100 63.7 51.1 76.7

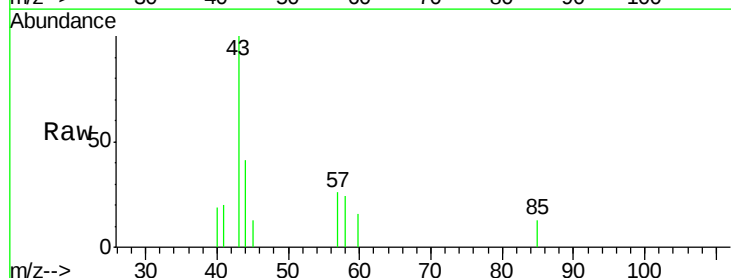


Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

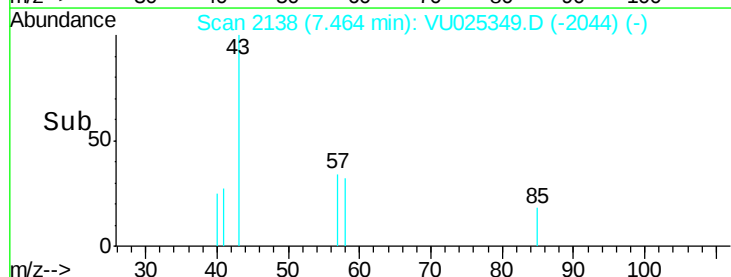
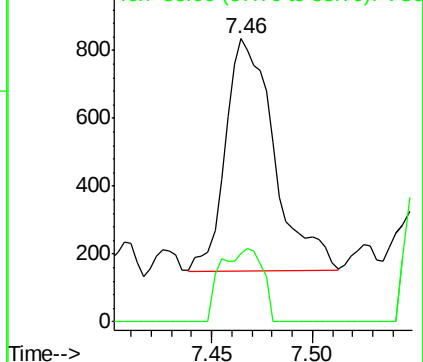


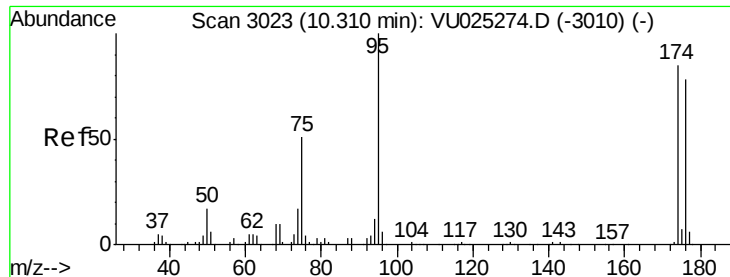
#51
4-Methyl-2-Pentanone
Concen: 0.30 ug/l
RT: 7.46 min Scan# 2138
Delta R.T. 0.00 min
Lab File: VU025349.D
Acq: 12 Jul 2018 19:09

Tgt Ion: 43 Resp: 1155
Ion Ratio Lower Upper
43 100
58 27.0 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: 45.12 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025349.D

Acq: 12 Jul 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#04

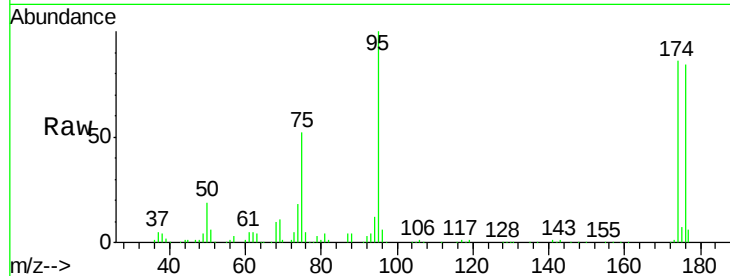
Tot Ion: 95 Resp: 157606

Ion Ratio Lower Upper

95 100

174 86.3 0.0 172.2

176 84.4 0.0 162.6

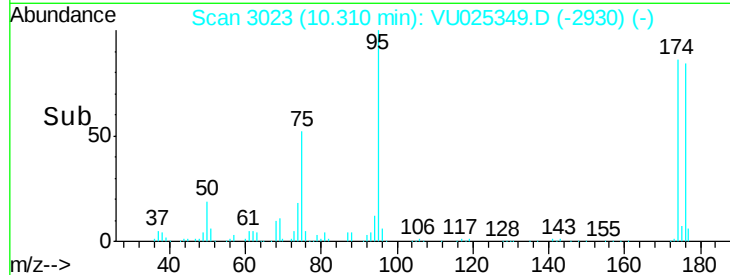


Abundance Ion 94.90 (94.60 to 95.60): VU025274.D (-3010) (-)

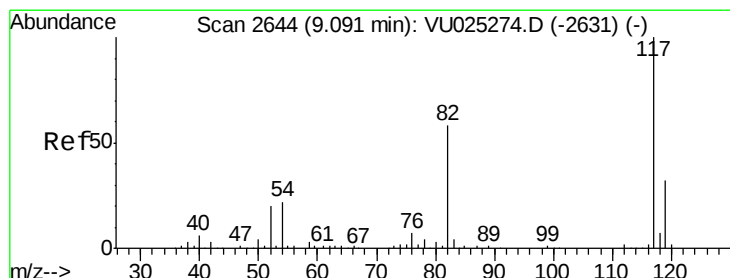
Ion 173.80 (173.50 to 174.50): VU025274.D (-3010) (-)

Ion 175.80 (175.50 to 176.50): VU025274.D (-3010) (-)

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU025349.D

Acq: 12 Jul 2018 19:09

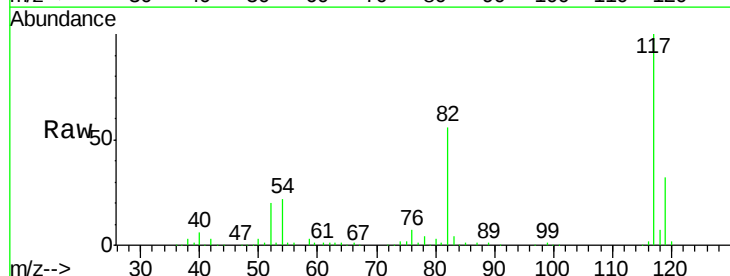
Tgt Ion: 117 Resp: 275778

Ion Ratio Lower Upper

117 100

82 55.9 46.0 69.0

119 32.3 26.0 39.0

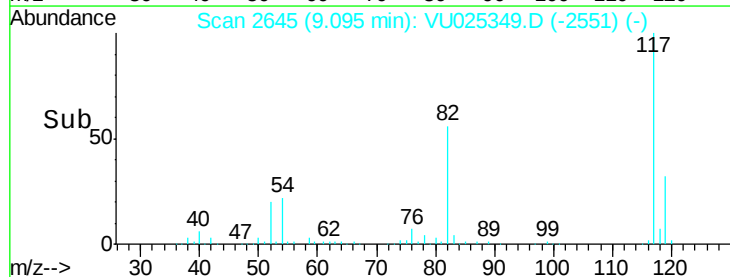


Abundance Ion 116.90 (116.60 to 117.60): VU025274.D (-2631) (-)

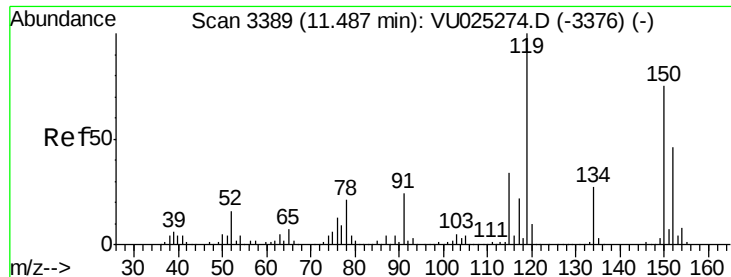
Ion 82.00 (81.70 to 82.70): VU025274.D (-2631) (-)

Ion 118.90 (118.60 to 119.60): VU025274.D (-2631) (-)

Time-->



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025349.D

Acq: 12 Jul 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#04

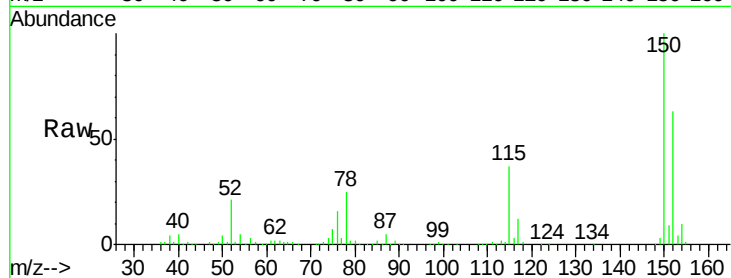
Tot Ion:152 Resp: 146203

Ion Ratio Lower Upper

152 100

115 57.5 40.1 120.3

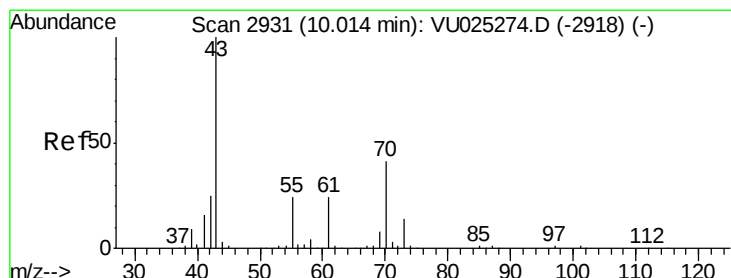
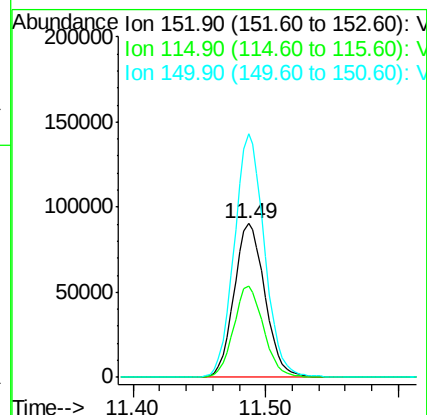
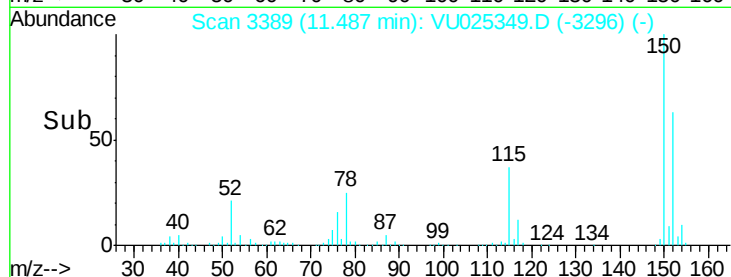
150 154.9 0.0 351.4



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-ethyl acetate

Concen: 1.28 ug/l

RT: 10.03 min Scan# 2936

Delta R.T. 0.02 min

Lab File: VU025349.D

Acq: 12 Jul 2018 19:09

Tgt Ion: 43 Resp: 81

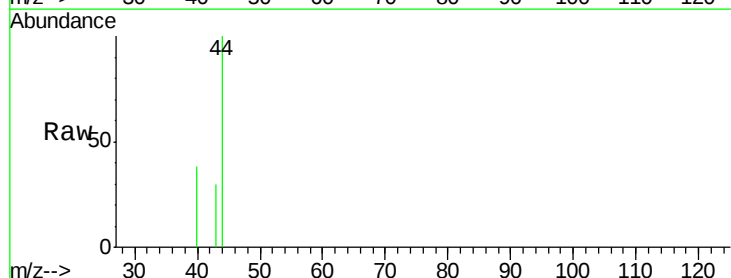
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.2#

55 0.0 19.0 28.6#

61 0.0 19.3 28.9#

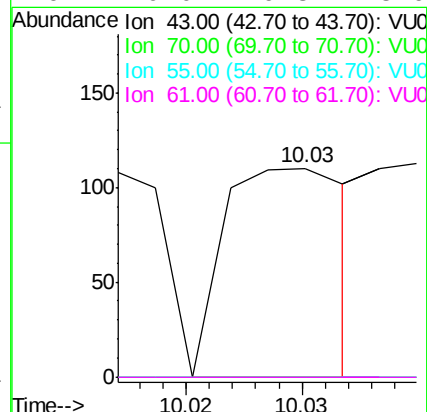
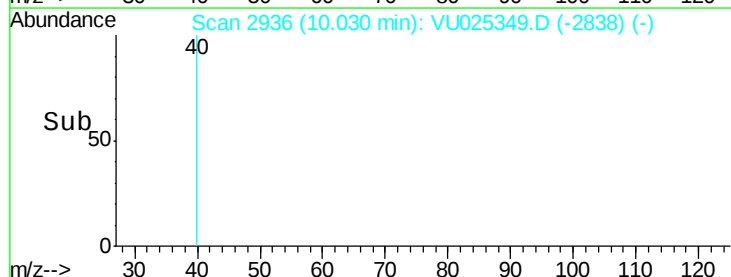


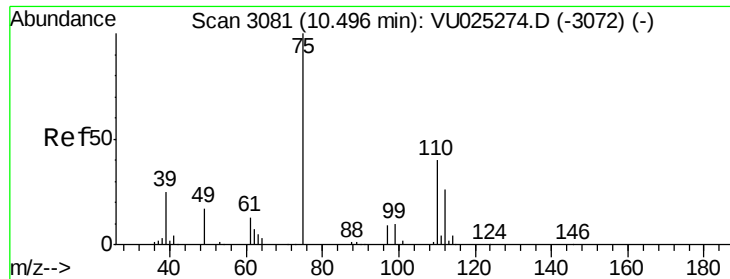
Abundance Ion 43.00 (42.70 to 43.70): VU0

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





#76

1,2,3-Trichloropropane

Concen: 27.32 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025349.D

Acq: 12 Jul 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

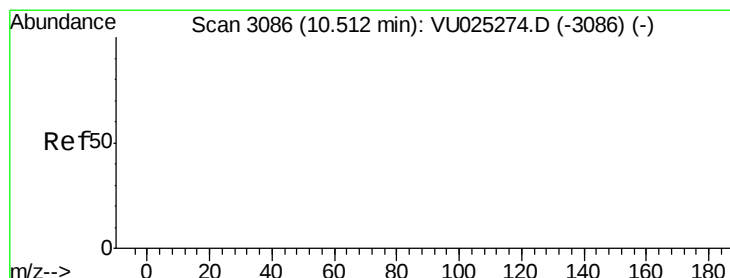
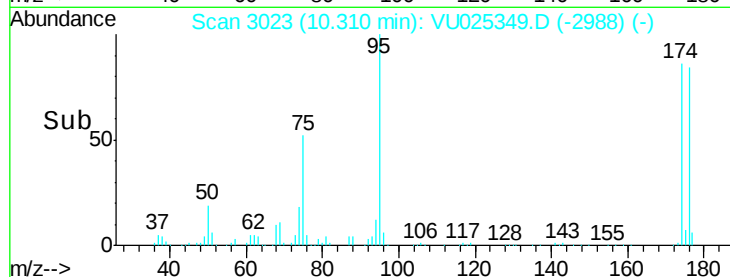
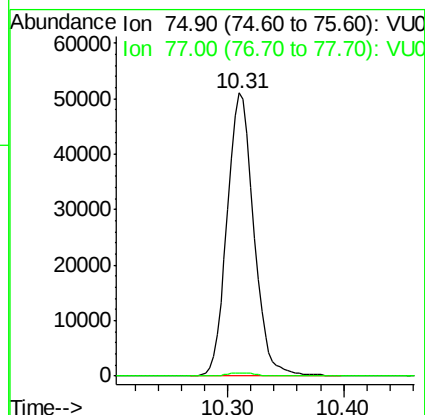
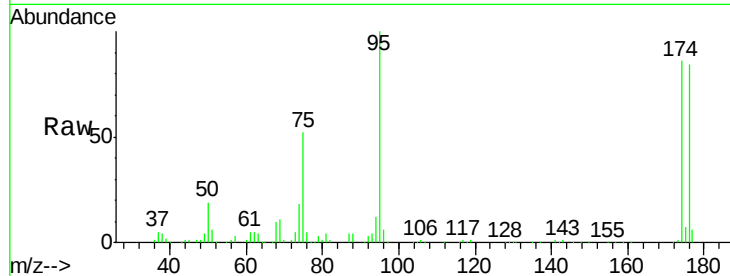
PB111044ZHE#04

Tot Ion: 75 Resp: 81223

Ion Ratio Lower Upper

75 100

77 1.1 20.4 61.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.73 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025349.D

Acq: 12 Jul 2018 19:09

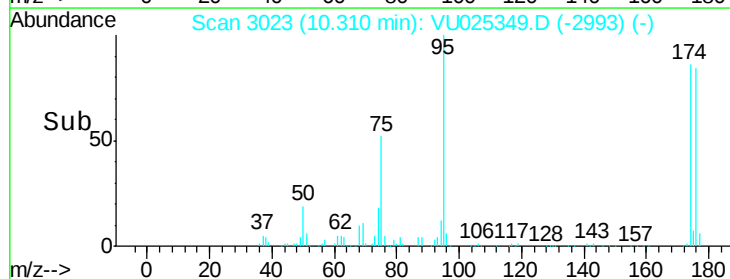
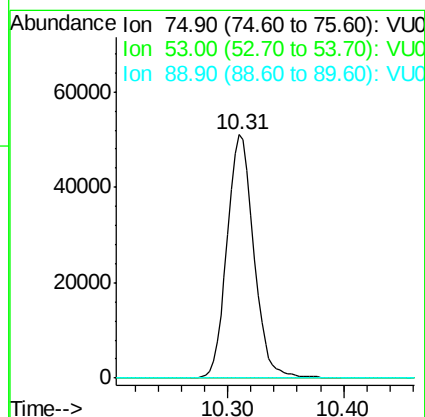
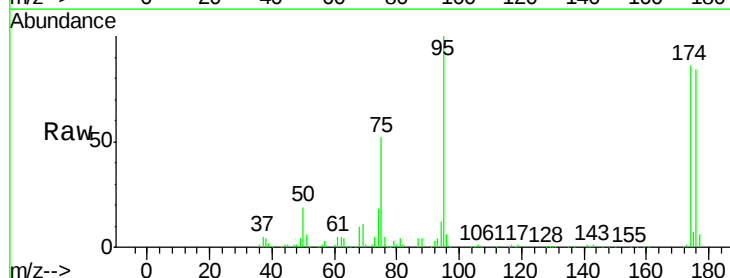
Tgt Ion: 75 Resp: 81223

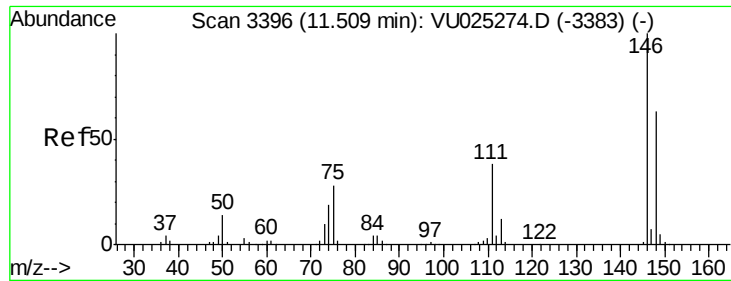
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

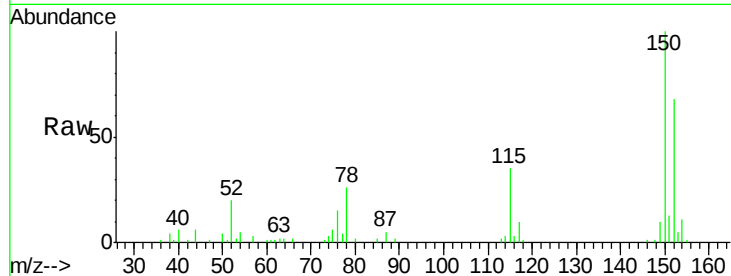




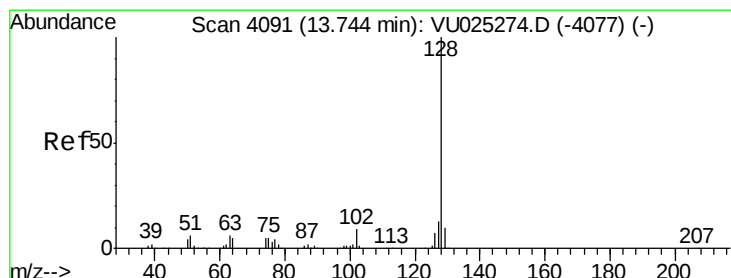
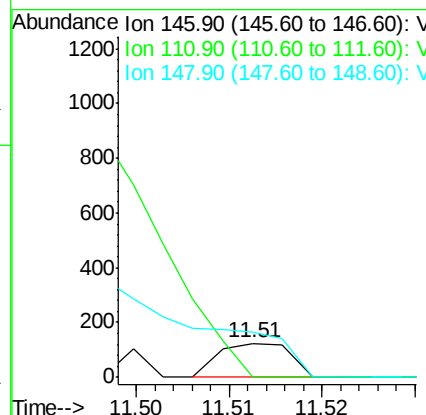
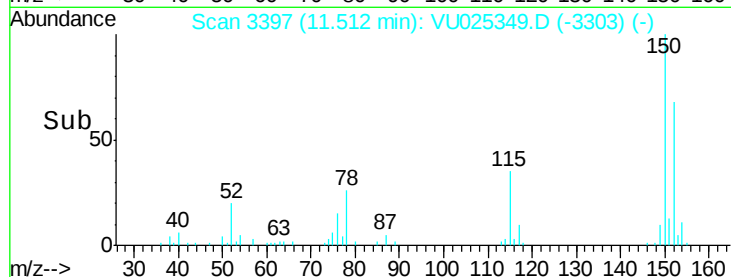
#88
 1,4-Dichlorobenzene
 Concen: 1.50 ug/l
 RT: 11.51 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VU025349.D
 Acq: 12 Jul 2018 19:09

Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044ZHE#04

Tot Ion:146 Resp: 67
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.4 58.1#
 148 0.0 31.7 95.1#

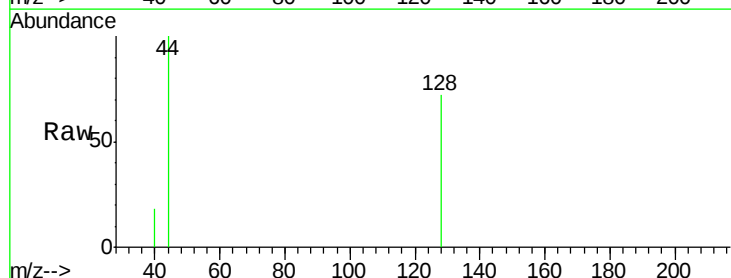


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V



#95
 Naphthalene
 Concen: 2.46 ug/l
 RT: 13.75 min Scan# 4094
 Delta R.T. 0.01 min
 Lab File: VU025349.D
 Acq: 12 Jul 2018 19:09

Tgt Ion:128 Resp: 502
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.5 15.7#
 129 0.0 8.3 12.5#



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

