

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025352.D
 Acq On : 12 Jul 2018 20:22
 Operator : MD/SY
 Sample : PB111044ZHE#07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044ZHE#07

Quant Time: Jul 13 01:13:57 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	196421	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	297246	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	276799	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	146006	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	149087	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
35) Dibromofluoromethane	4.89	113	117233	46.75	ug/l	0.00
Spiked Amount			Recovery	=	93.50%	
50) Toluene-d8	7.57	98	431051	50.20	ug/l	0.00
Spiked Amount			Recovery	=	100.40%	
62) 4-Bromofluorobenzene	10.31	95	158732	45.92	ug/l	0.00
Spiked Amount			Recovery	=	91.84%	

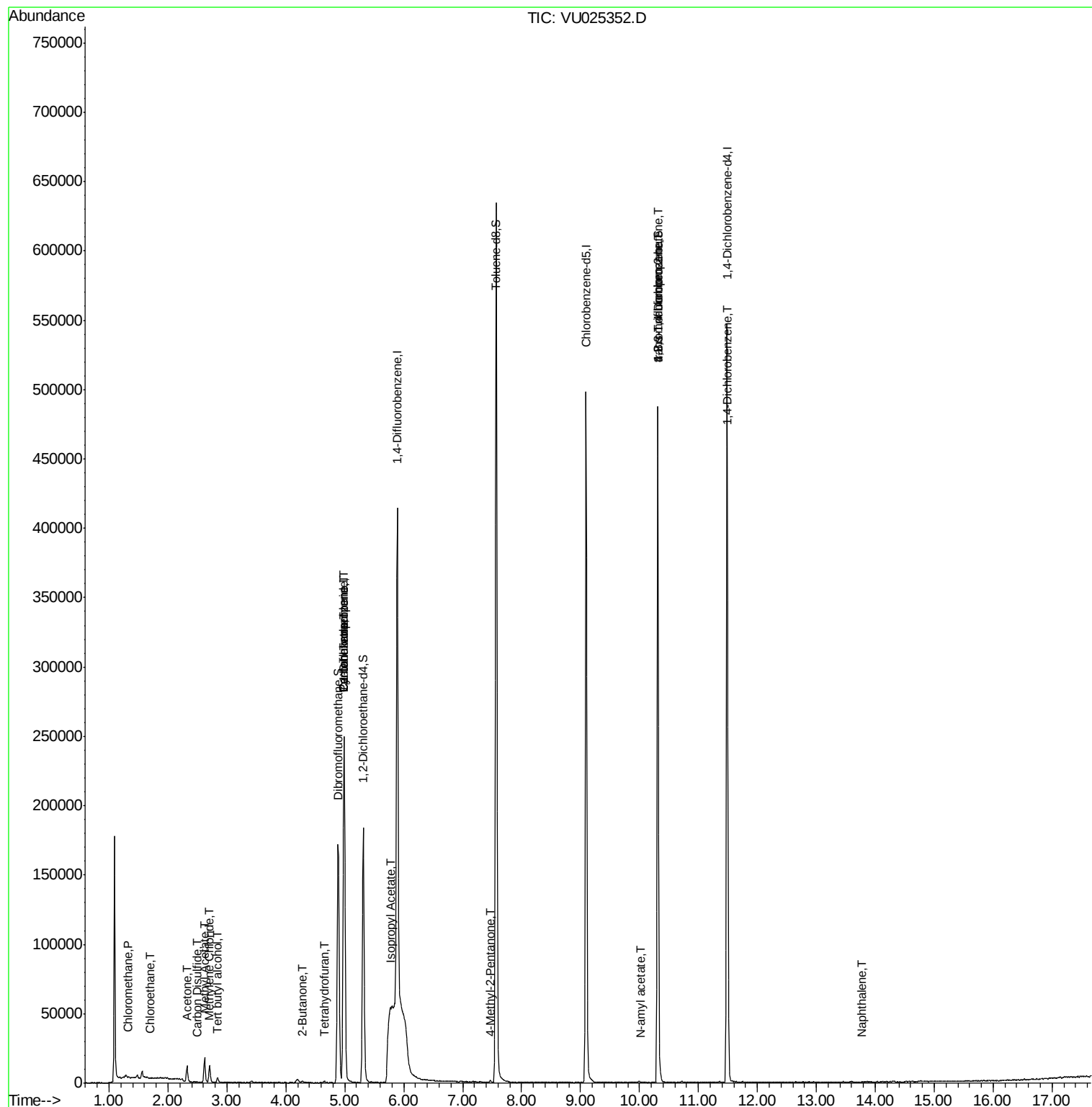
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	375	0.75	ug/l	96
5) Bromomethane	1.64	94	205	Below Cal	#	80
6) Chloroethane	1.70	64	71	0.34	ug/l	43
11) Tert butyl alcohol	2.84	59	2171	3.26	ug/l	73
16) Acetone	2.32	43	12284	12.60	ug/l	99
17) Carbon Disulfide	2.48	76	206	1.97	ug/l	74
18) Methyl Acetate	2.62	43	21603	6.91	ug/l	98
20) Methylene Chloride	2.71	84	5295	2.90	ug/l	95
25) 2-Butanone	4.28	43	2193	1.04	ug/l	82
29) Tetrahydrofuran	4.64	42	473	0.37	ug/l	93
31) Cyclohexane	4.98	56	3886	1.74	ug/l	21
36) 1,1-Dichloropropene	4.99	75	14213	4.30	ug/l	51
38) Carbon Tetrachloride	4.99	117	18574	5.22	ug/l	16
43) Isopropyl Acetate	5.77	43	66284	11.23	ug/l	61
51) 4-Methyl-2-Pentanone	7.46	43	812	0.21	ug/l	95
74) N-amyl acetate	10.03	43	102	1.29	ug/l	43
76) 1,2,3-Trichloropropane	10.31	75	83619	28.14	ug/l	36
81) trans-1,4-Dichloro-2-buten	10.31	75	83619	71.89	ug/l	100
88) 1,4-Dichlorobenzene	11.50	146	21	1.49	ug/l	1
95) Naphthalene	13.78	128	89	2.42	ug/l	69

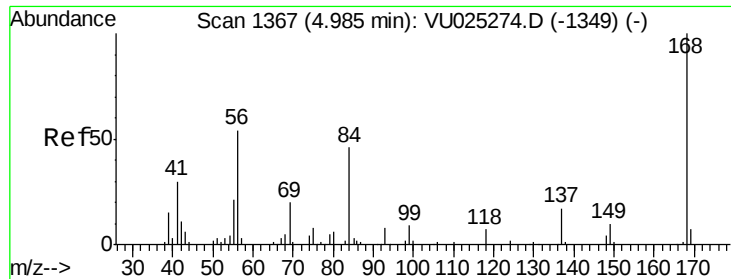
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU025352.D

Acq: 12 Jul 2018 20:22

Instrument :

MSVOA_U

ClientSampleId :

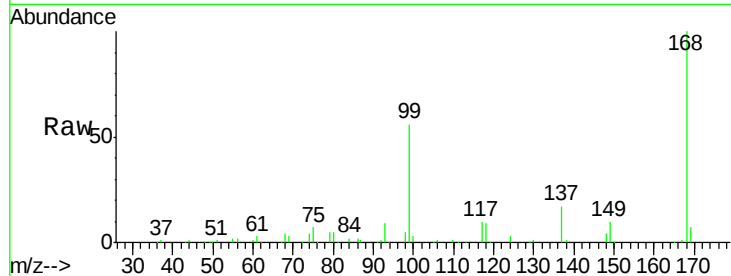
PB111044ZHE#07

Tot Ion:168 Resp: 196421

Ion Ratio Lower Upper

168 100

99 56.2 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) (-)

4.99

80000

60000

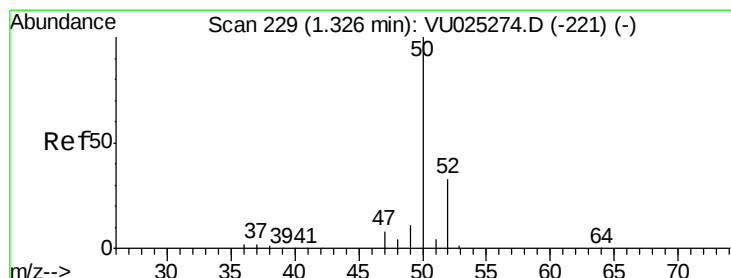
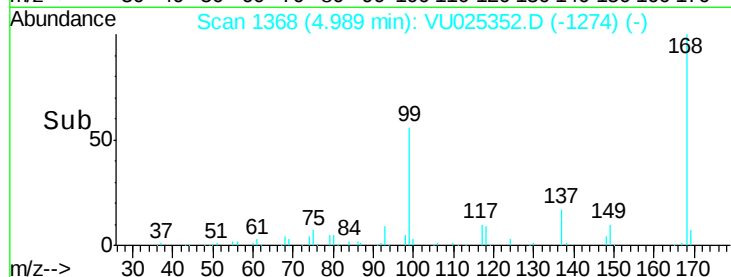
40000

20000

0

Time-->

4.90 5.00 5.10



#3

Chloromethane

Concen: 0.75 ug/l

RT: 1.33 min Scan# 229

Delta R.T. 0.00 min

Lab File: VU025352.D

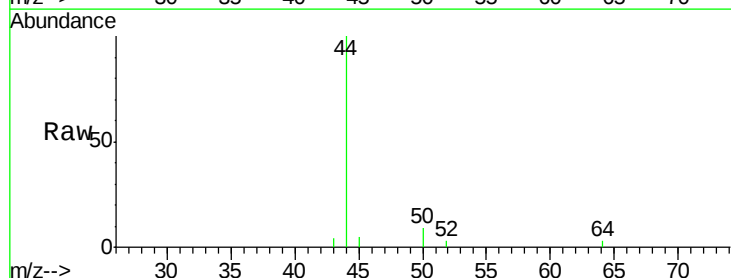
Acq: 12 Jul 2018 20:22

Tgt Ion: 50 Resp: 375

Ion Ratio Lower Upper

50 100

52 35.3 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) (-)

1.33

300

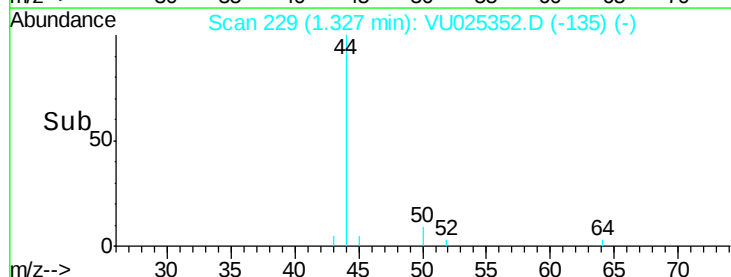
200

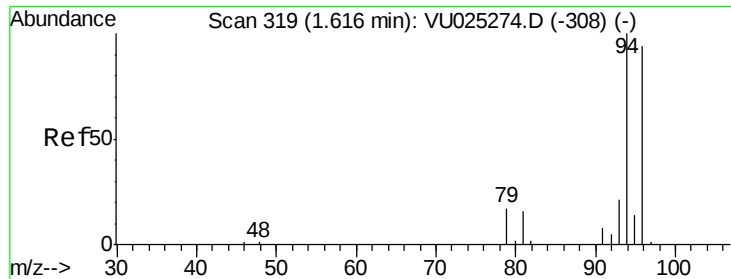
100

0

Time-->

1.30 1.32 1.34





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 325

Delta R.T. 0.02 min

Lab File: VU025352.D

Acq: 12 Jul 2018 20:22

Instrument :

MSVOA_U

ClientSampleId :

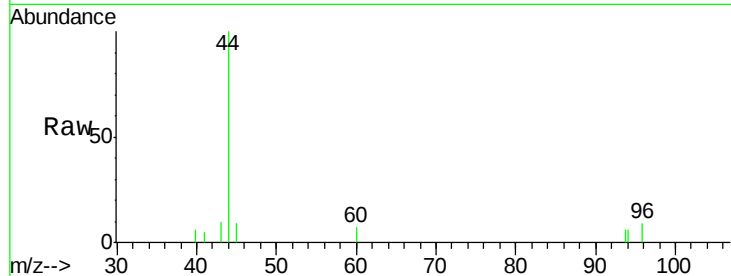
PB111044ZHE#07

Tot Ion: 94 Resp: 205

Ion Ratio Lower Upper

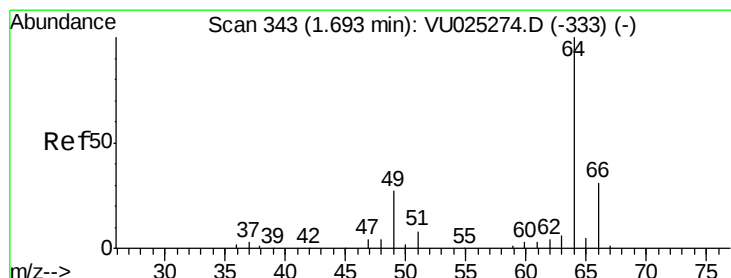
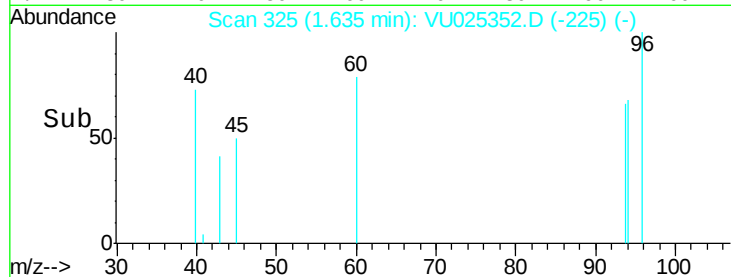
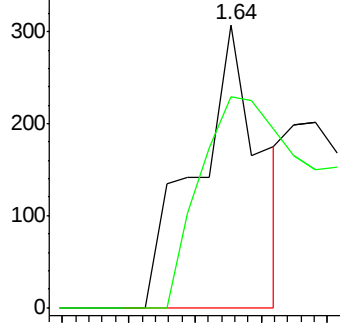
94 100

96 74.7 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: 0.34 ug/l

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU025352.D

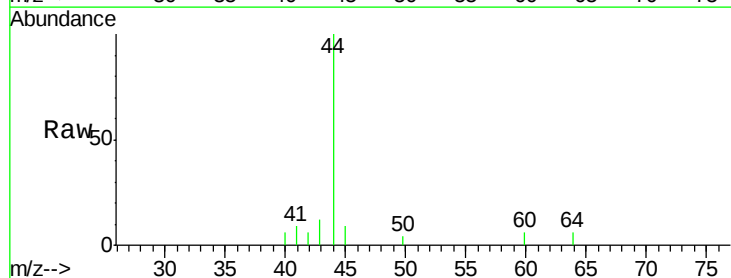
Acq: 12 Jul 2018 20:22

Tgt Ion: 64 Resp: 71

Ion Ratio Lower Upper

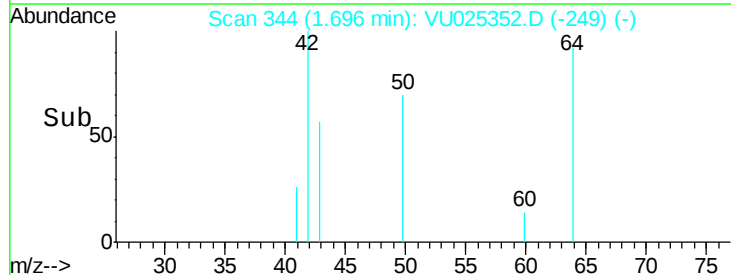
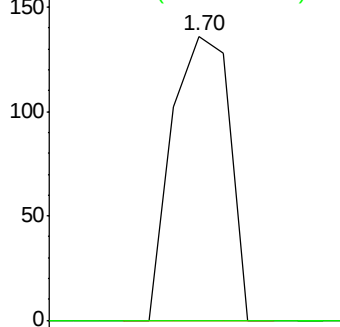
64 100

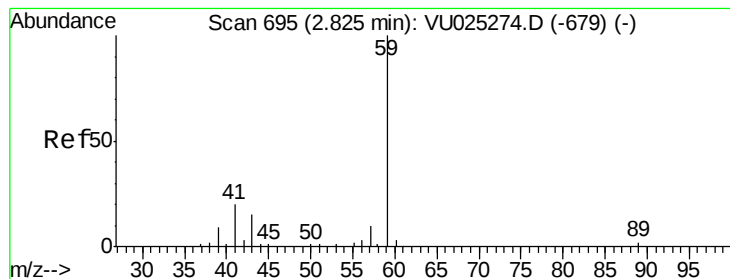
66 0.0 25.0 37.4#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



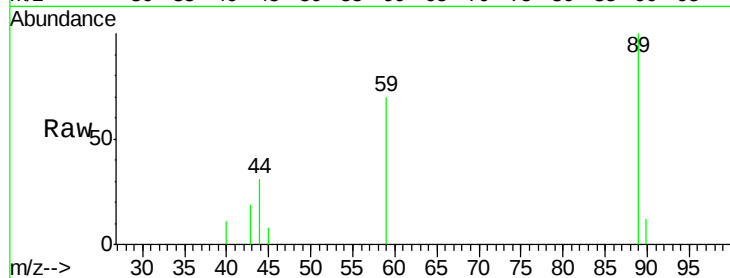


#11

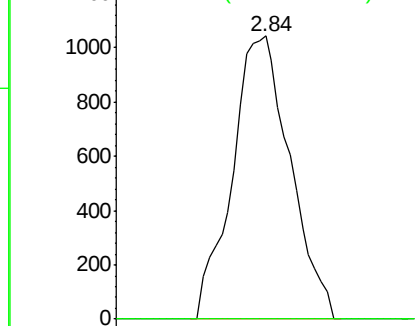
Tert butyl alcohol
 Concen: 3.26 ug/l
 RT: 2.84 min Scan# 700
 Delta R.T. 0.02 min
 Lab File: VU025352.D
 Acq: 12 Jul 2018 20:22

Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044ZHE#07

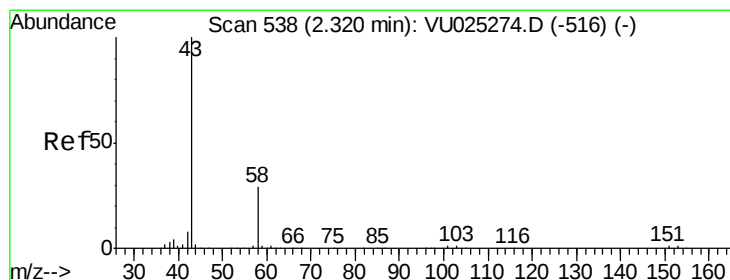
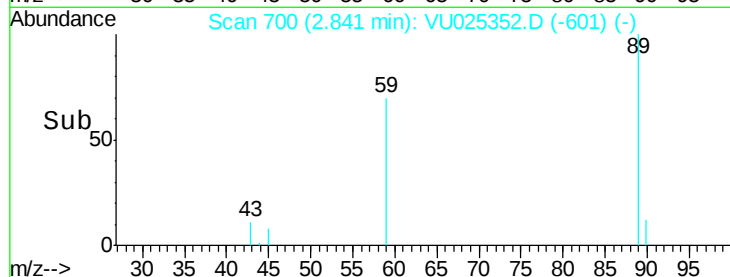
Tot Ion: 59 Resp: 2171
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VU0
 Ion 57.00 (56.70 to 57.70): VU0



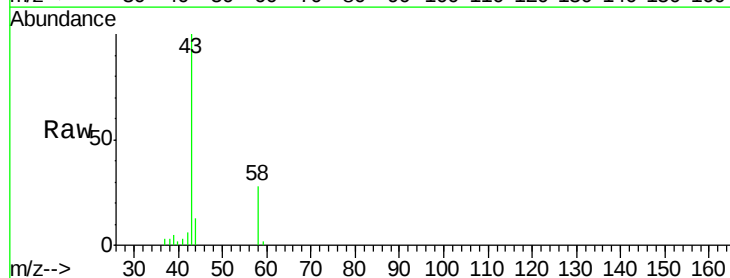
Time-->



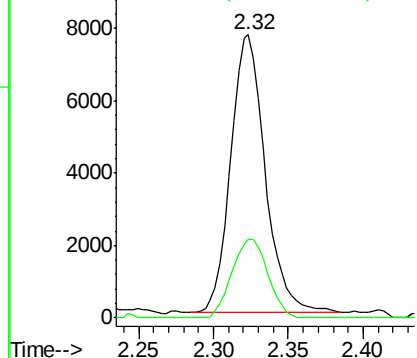
#16

Acetone
 Concen: 12.60 ug/l
 RT: 2.32 min Scan# 539
 Delta R.T. 0.00 min
 Lab File: VU025352.D
 Acq: 12 Jul 2018 20:22

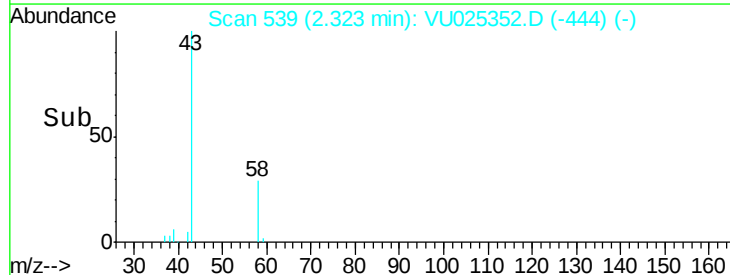
Tgt Ion: 43 Resp: 12284
 Ion Ratio Lower Upper
 43 100
 58 28.4 23.1 34.7

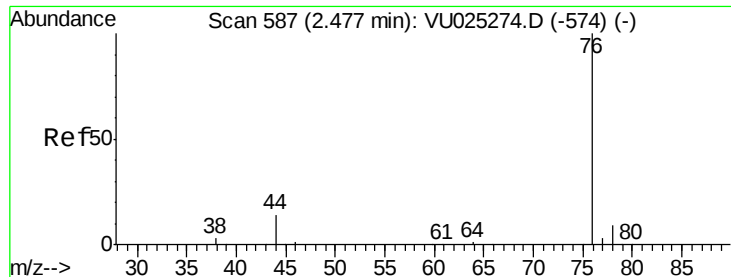


Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 58.00 (57.70 to 58.70): VU0



Time-->





#17

Carbon Disulfide

Concen: 1.97 ug/l

RT: 2.48 min Scan# 589

Delta R.T. 0.01 min

Lab File: VU025352.D

Acq: 12 Jul 2018 20:22

Instrument :

MSVOA_U

ClientSampleId :

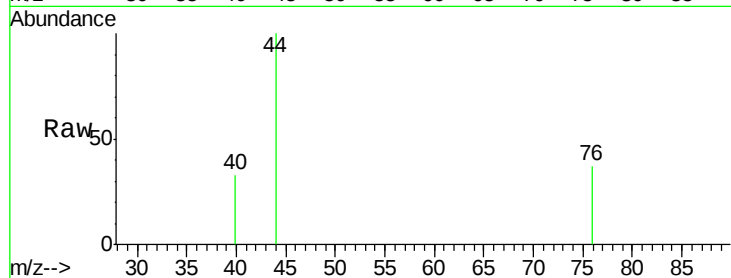
PB111044ZHE#07

Tot Ion: 76 Resp: 206

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

2.48

200

150

100

50

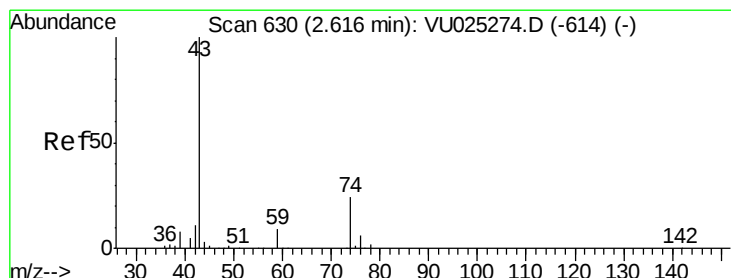
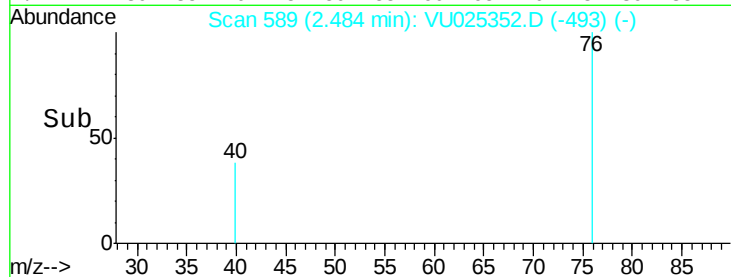
0

2.46

2.48

2.50

Time-->



#18

Methyl Acetate

Concen: 6.91 ug/l

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU025352.D

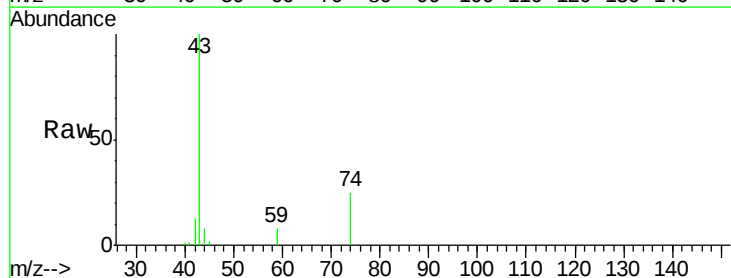
Acq: 12 Jul 2018 20:22

Tgt Ion: 43 Resp: 21603

Ion Ratio Lower Upper

43 100

74 24.1 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.62

10000

5000

0

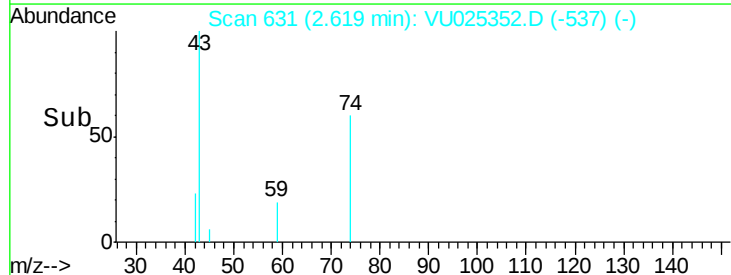
2.55

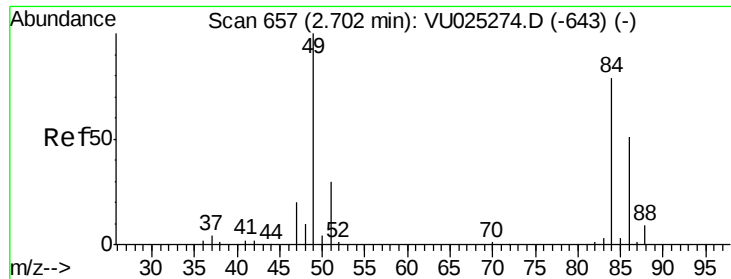
2.60

2.65

2.70

Time-->

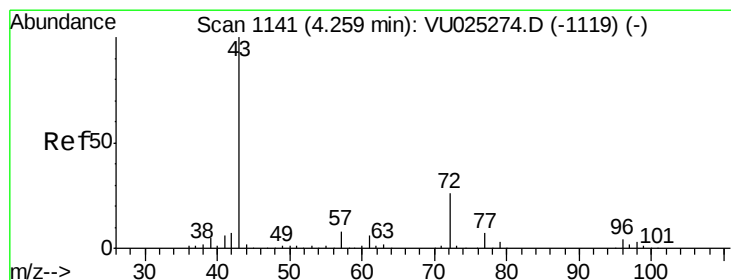
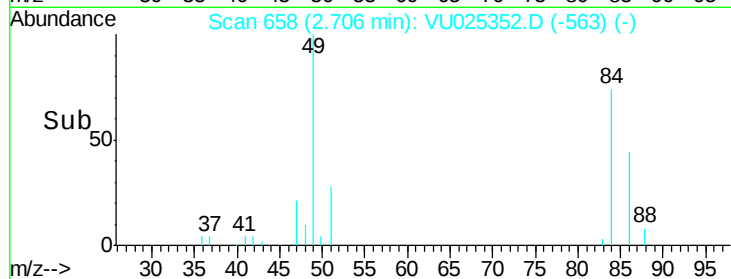
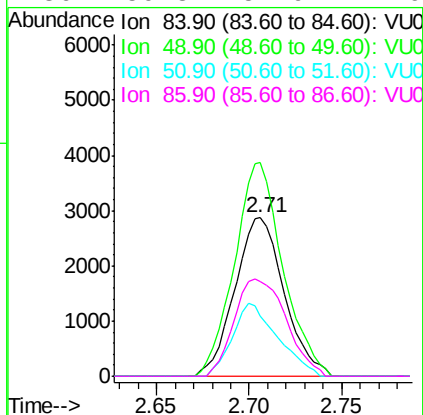
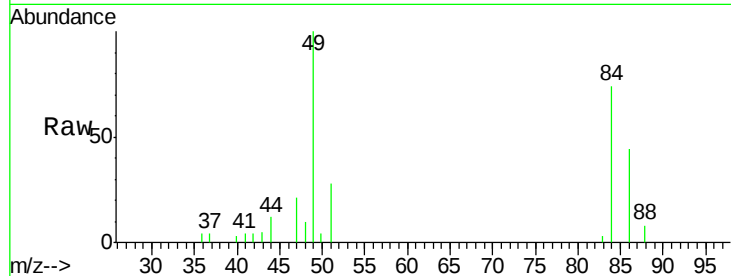




#20
Methvlene Chloride
Concen: 2.90 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU025352.D
Acq: 12 Jul 2018 20:22

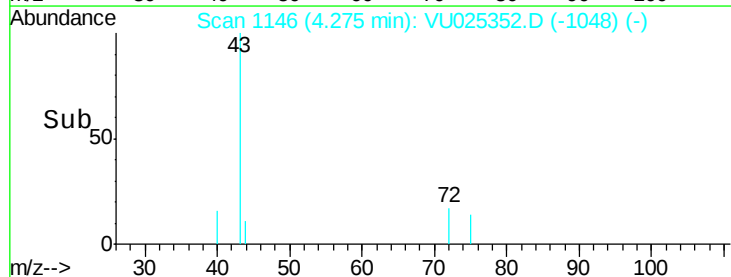
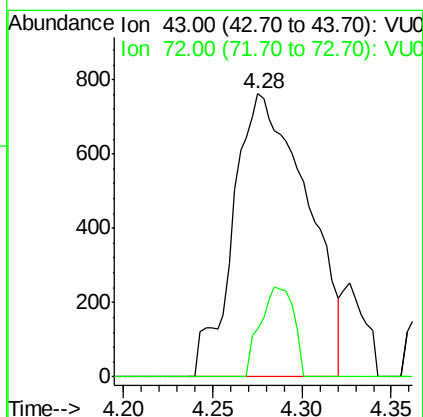
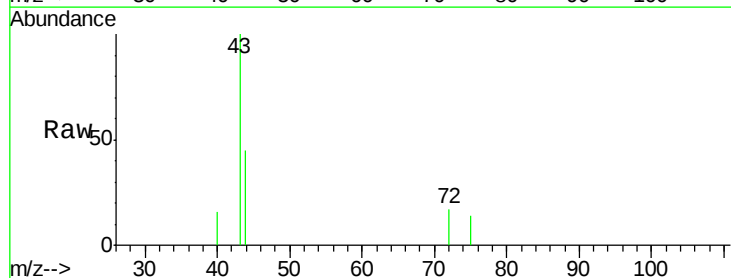
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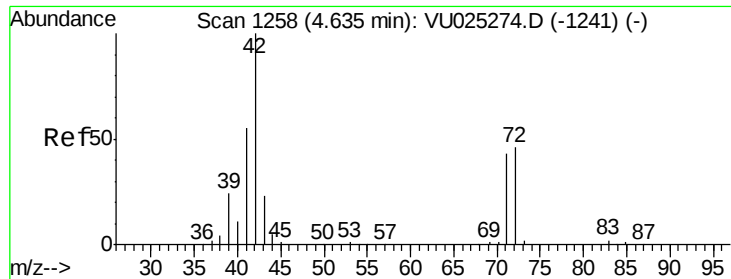
Tot Ion:	84	Resp:	5295
Ion	Ratio	Lower	Upper
84	100		
49	134.7	101.8	152.6
51	38.3	30.8	46.2
86	59.8	51.9	77.9



#25
2-Butanone
Concen: 1.04 ug/l
RT: 4.28 min Scan# 1146
Delta R.T. 0.02 min
Lab File: VU025352.D
Acq: 12 Jul 2018 20:22

Tgt Ion:	43	Resp:	2193
Ion	Ratio	Lower	Upper
43	100		
72	16.8	21.0	31.4#

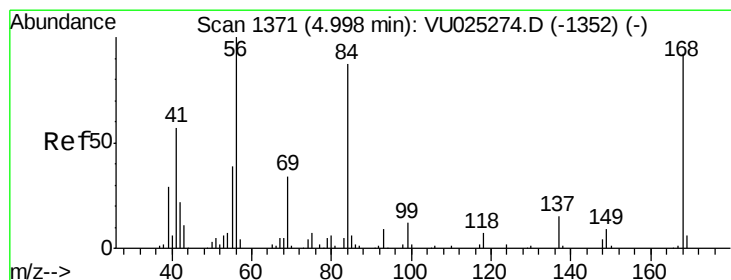
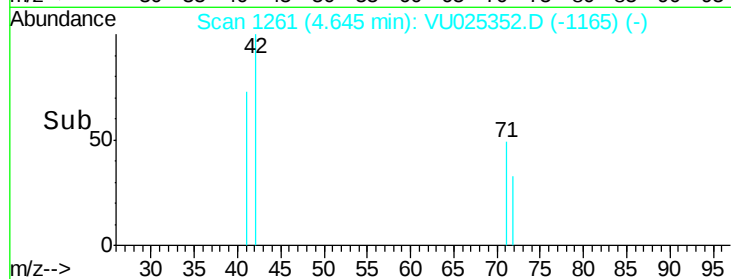
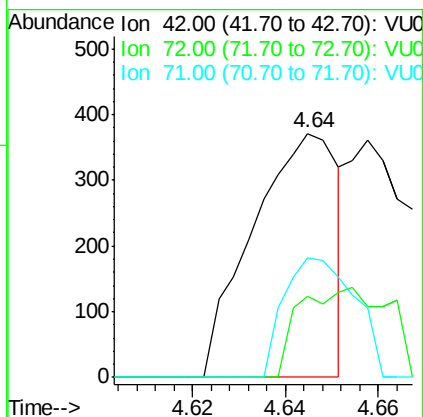
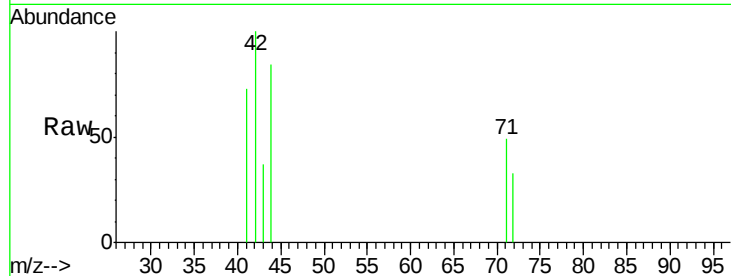




#29
Tetrahydrofuran
Concen: 0.37 ug/l
RT: 4.64 min Scan# 1261
Delta R.T. 0.01 min
Lab File: VU025352.D
Acq: 12 Jul 2018 20:22

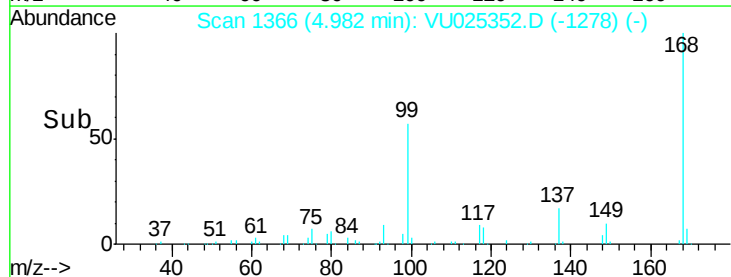
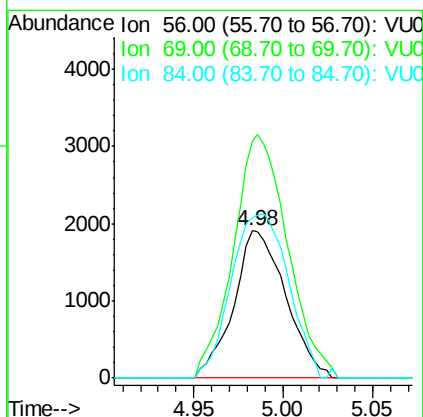
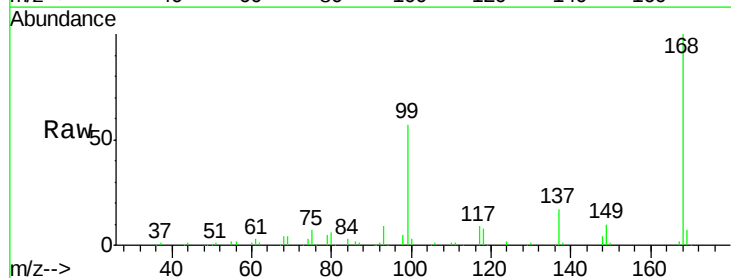
Instrument :
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ClientSampleId :
PB111044ZHE#07

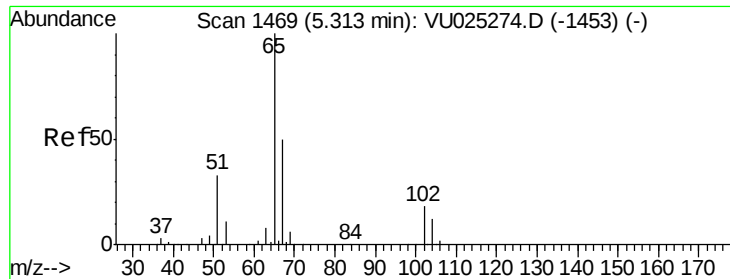
Tot Ion: 42 Resp: 473
Ion Ratio Lower Upper
42 100
72 38.5 36.7 55.1
71 40.8 33.9 50.9



#31
Cyclohexane
Concen: 1.74 ug/l
RT: 4.98 min Scan# 1366
Delta R.T. -0.02 min
Lab File: VU025352.D
Acq: 12 Jul 2018 20:22

Tgt Ion: 56 Resp: 3886
Ion Ratio Lower Upper
56 100
69 161.3 26.8 40.2#
84 108.5 69.7 104.5#

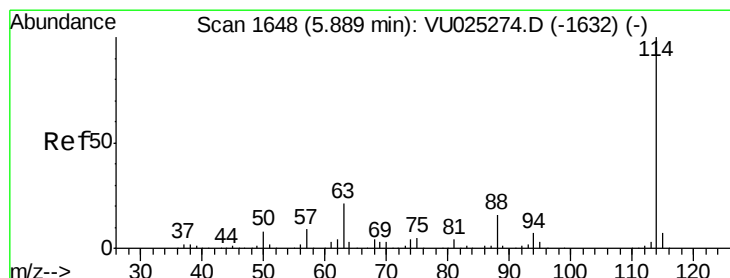
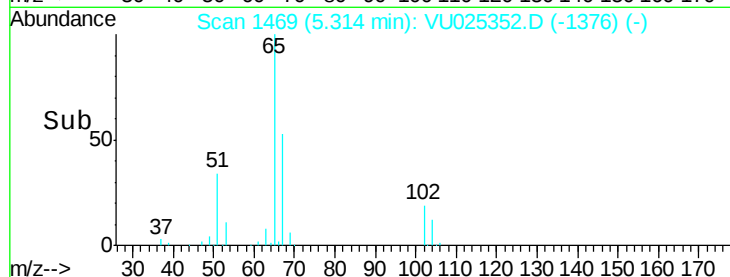
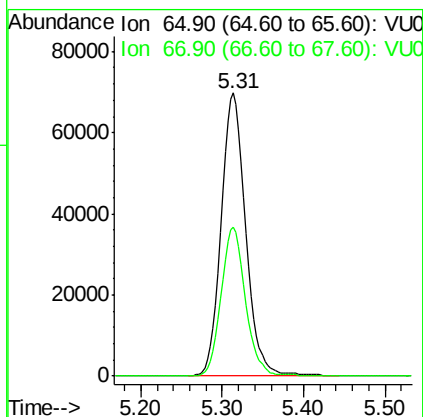
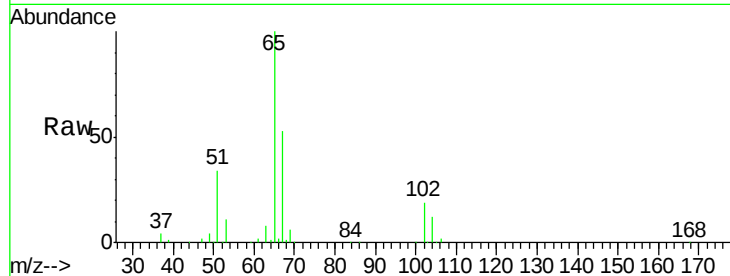




#33
 1,2-Dichloroethane-d4
 Concen: 48.85 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU025352.D
 Acq: 12 Jul 2018 20:22

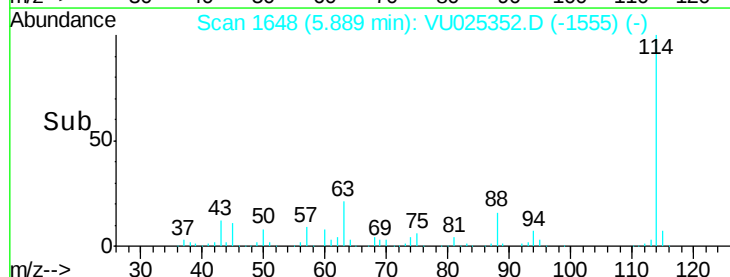
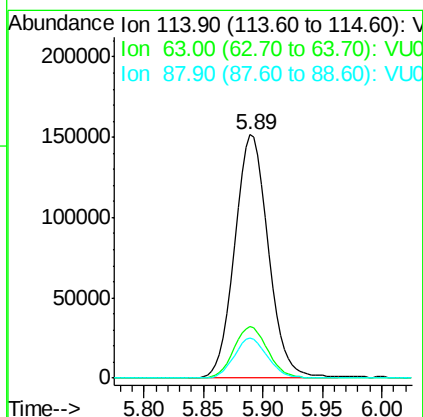
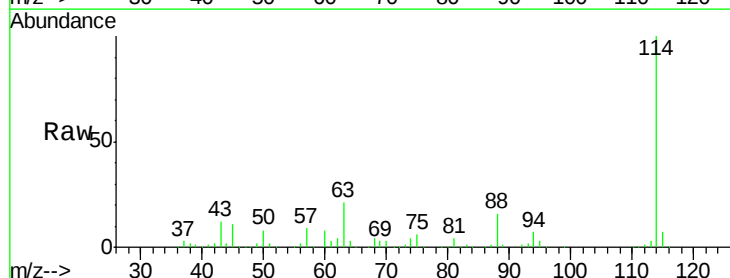
Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044ZHE#07

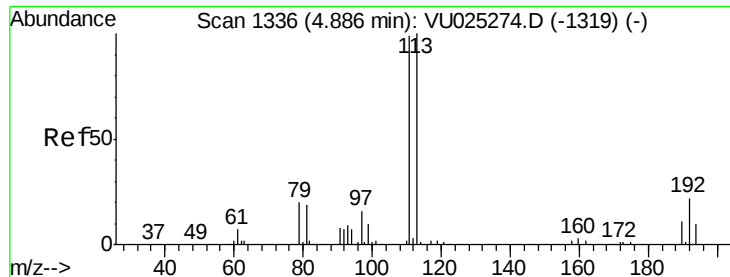
Tot Ion: 65 Resp: 149087
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. 0.00 min
 Lab File: VU025352.D
 Acq: 12 Jul 2018 20:22

Tgt Ion: 114 Resp: 297246
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 41.6
 88 16.5 0.0 32.4

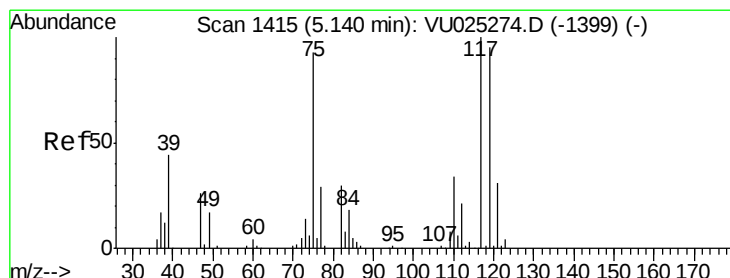
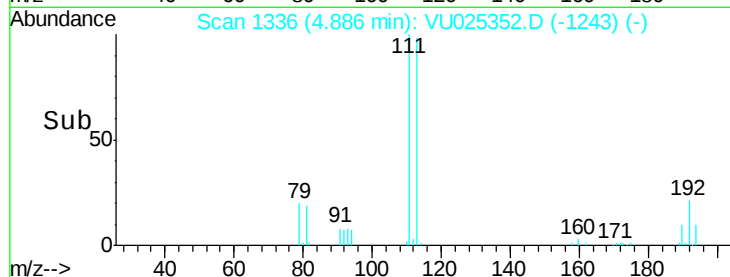
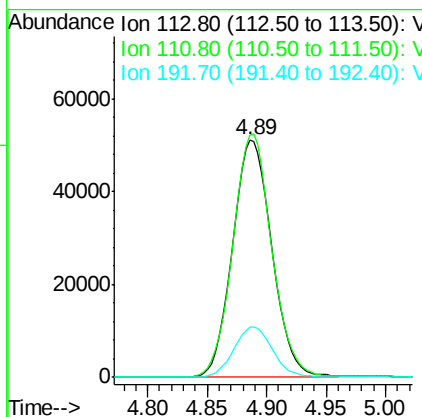
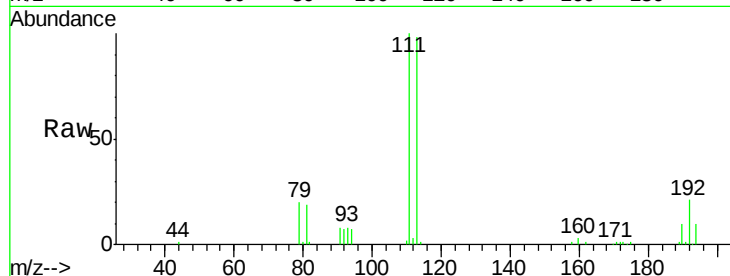




#35
 Dibromofluoromethane
 Concen: 46.75 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VU025352.D
 Acq: 12 Jul 2018 20:22

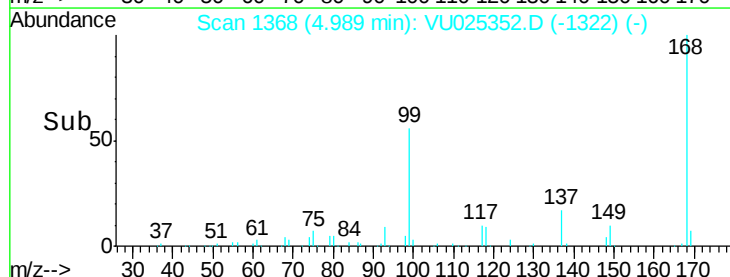
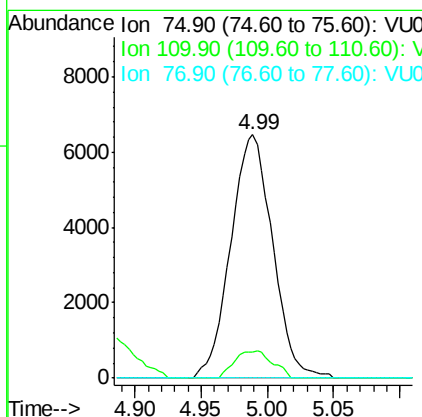
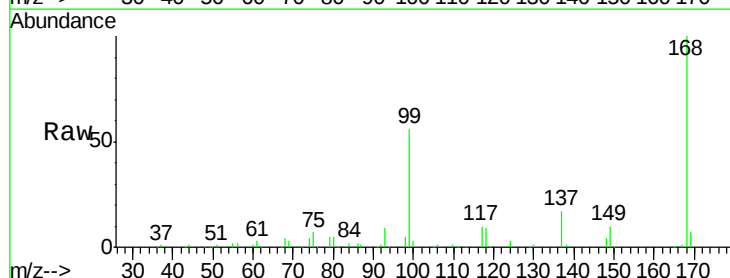
Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044ZHE#07

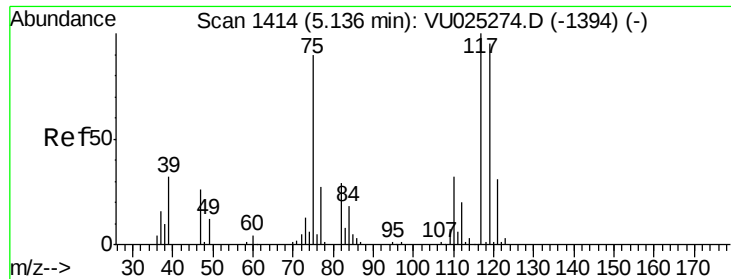
Tot Ion:113 Resp: 117233
 Ion Ratio Lower Upper
 113 100
 111 101.5 81.7 122.5
 192 20.8 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.30 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025352.D
 Acq: 12 Jul 2018 20:22

Tgt Ion: 75 Resp: 14213
 Ion Ratio Lower Upper
 75 100
 110 10.0 17.6 52.9#
 77 0.0 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 5.22 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. -0.14 min

Lab File: VU025352.D

Acq: 12 Jul 2018 20:22

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#07

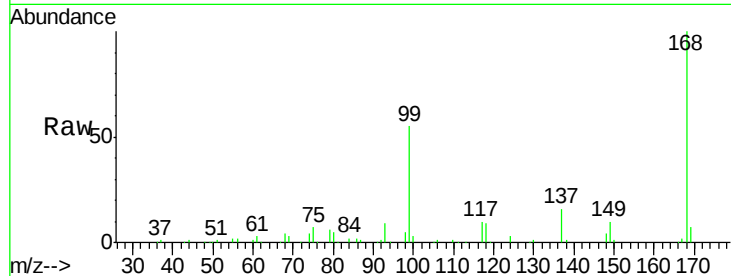
Tot Ion:117 Resp: 18574

Ion Ratio Lower Upper

117 100

119 4.7 75.7 113.5#

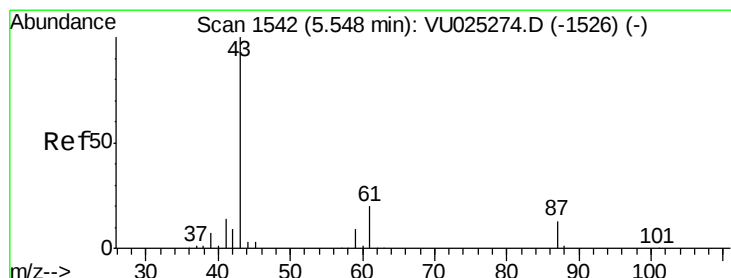
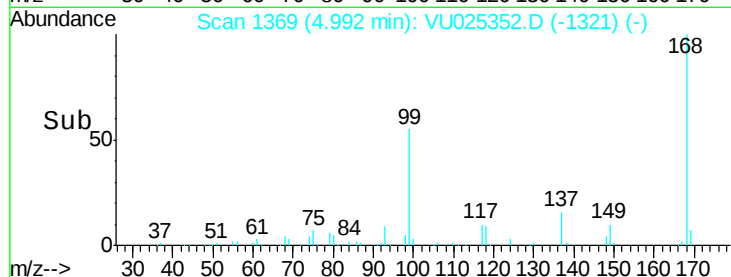
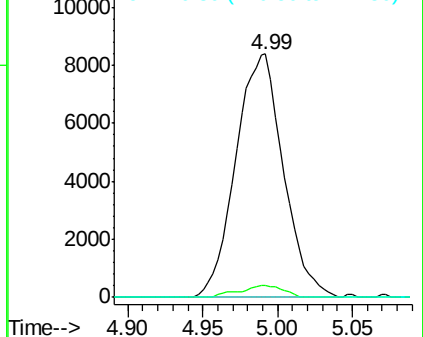
121 0.0 24.6 36.8#



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: 11.23 ug/l

RT: 5.77 min Scan# 1611

Delta R.T. 0.22 min

Lab File: VU025352.D

Acq: 12 Jul 2018 20:22

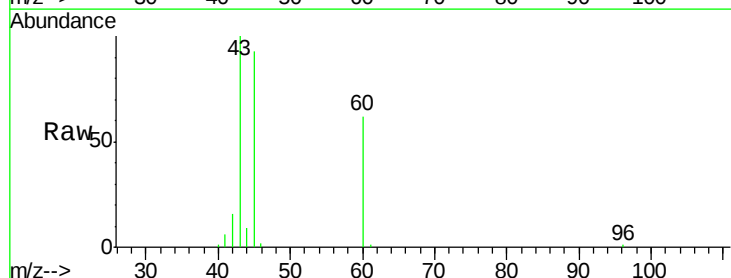
Tgt Ion: 43 Resp: 66284

Ion Ratio Lower Upper

43 100

61 0.2 15.5 23.3#

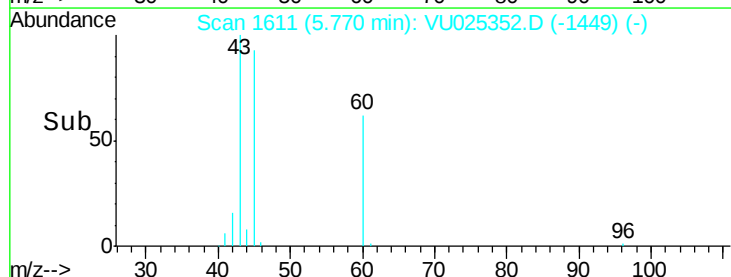
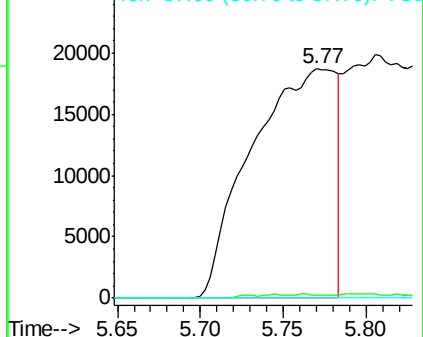
87 0.0 10.6 16.0#

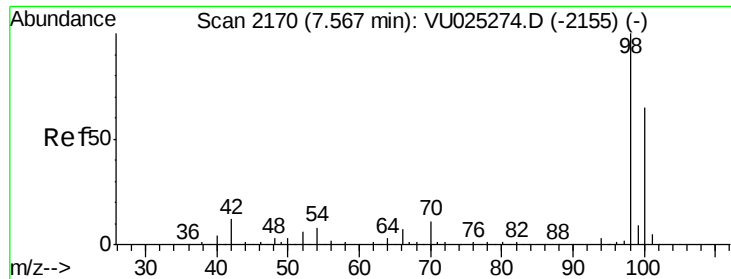


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

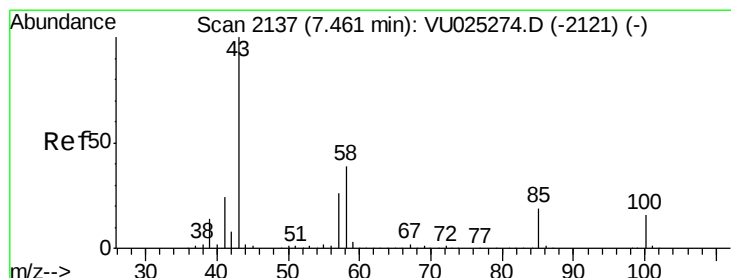
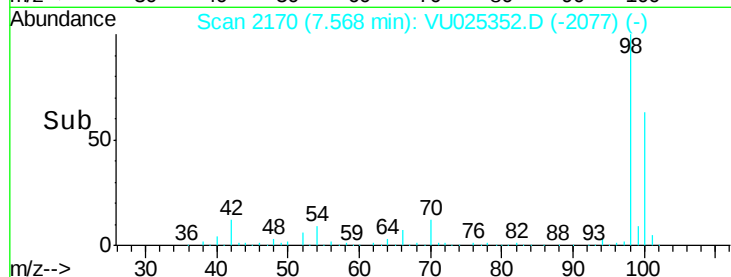
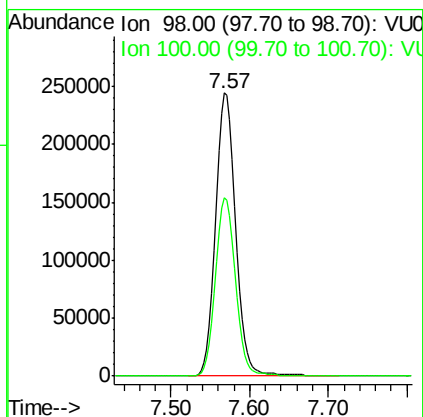
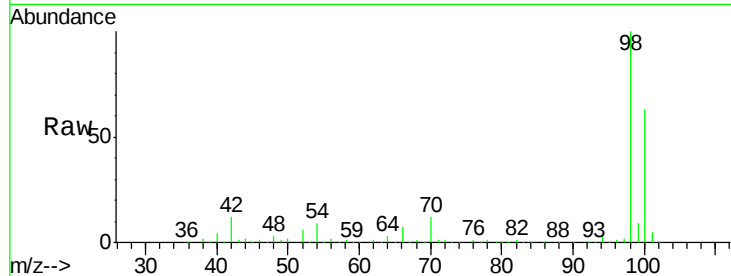




#50
Toluene-d8
Concen: 50.20 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. 0.00 min
Lab File: VU025352.D
Acq: 12 Jul 2018 20:22

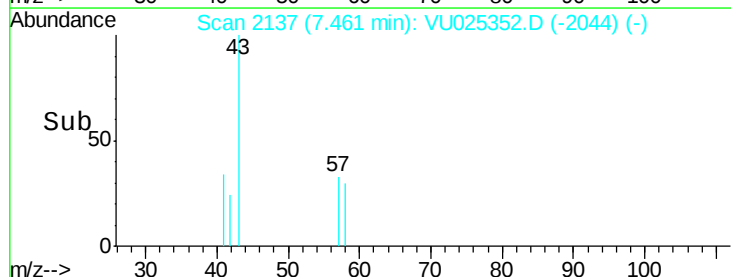
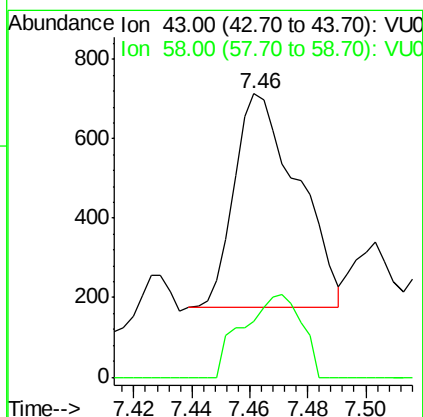
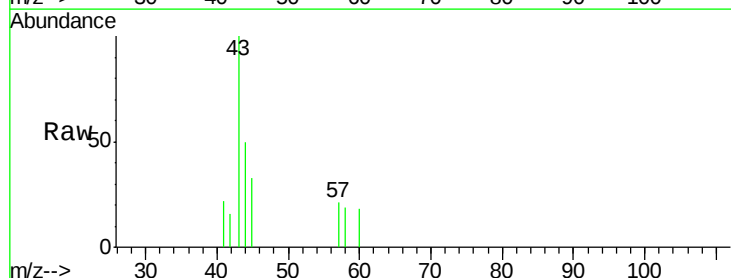
Instrument :
MSVOA_U
ClientSampleId :
PB111044ZHE#07

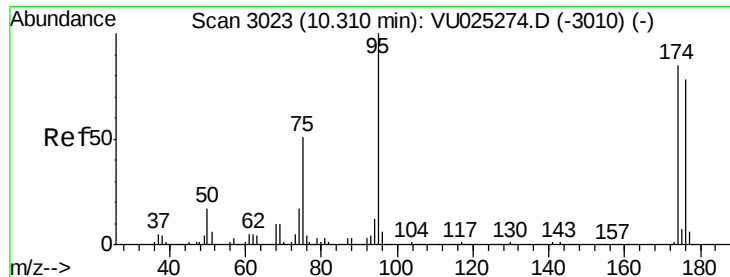
Tot Ion: 98 Resp: 431051
Ion Ratio Lower Upper
98 100
100 63.3 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.21 ug/l
RT: 7.46 min Scan# 2137
Delta R.T. 0.00 min
Lab File: VU025352.D
Acq: 12 Jul 2018 20:22

Tgt Ion: 43 Resp: 812
Ion Ratio Lower Upper
43 100
58 35.8 31.0 46.4





#62

4-Bromofluorobenzene

Concen: 45.92 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025352.D

Acq: 12 Jul 2018 20:22

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#07

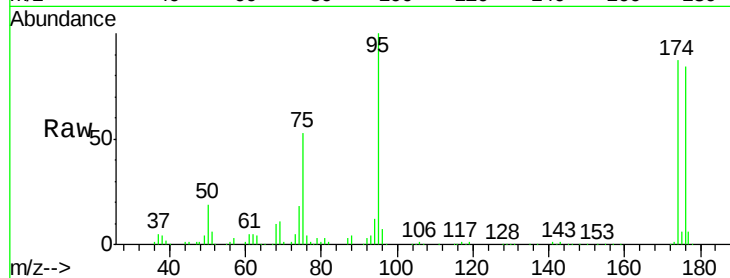
Tot Ion: 95 Resp: 158732

Ion Ratio Lower Upper

95 100

174 85.4 0.0 172.2

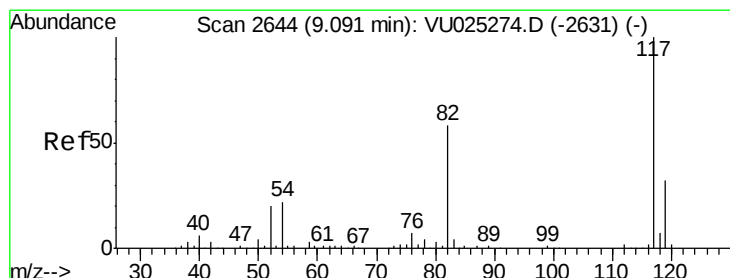
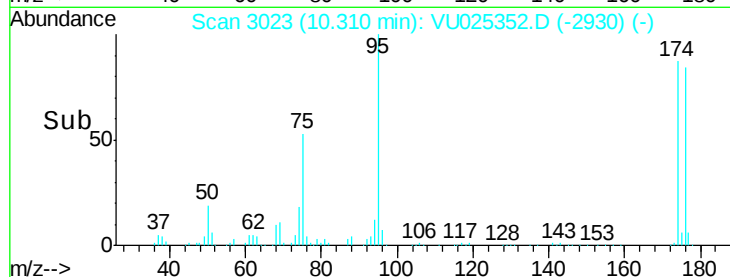
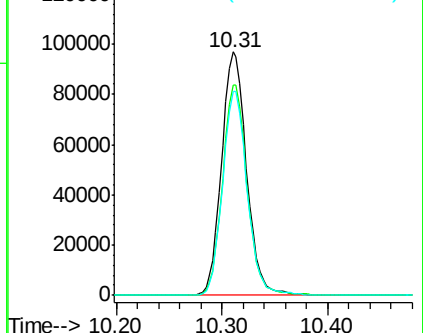
176 82.7 0.0 162.6



Abundance Ion 94.90 (94.60 to 95.60): VU025352.D (-2930) (-)

Ion 173.80 (173.50 to 174.50): VU025352.D (-2930) (-)

Ion 175.80 (175.50 to 176.50): VU025352.D (-2930) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VU025352.D

Acq: 12 Jul 2018 20:22

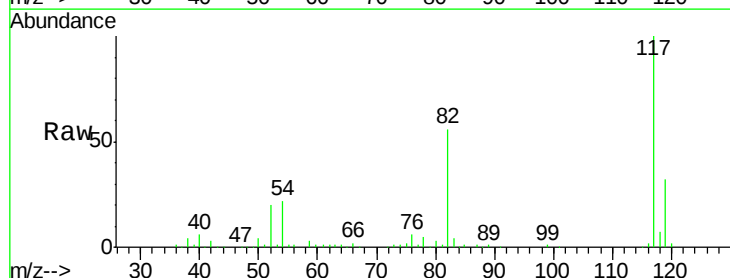
Tgt Ion: 117 Resp: 276799

Ion Ratio Lower Upper

117 100

82 55.6 46.0 69.0

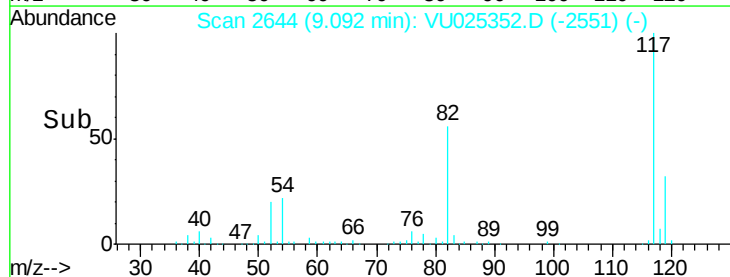
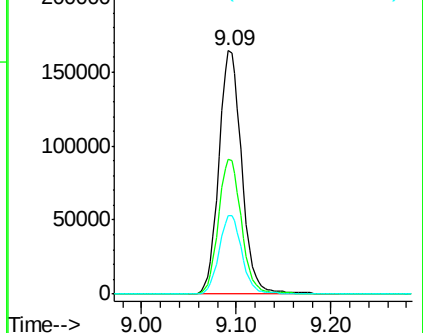
119 32.1 26.0 39.0

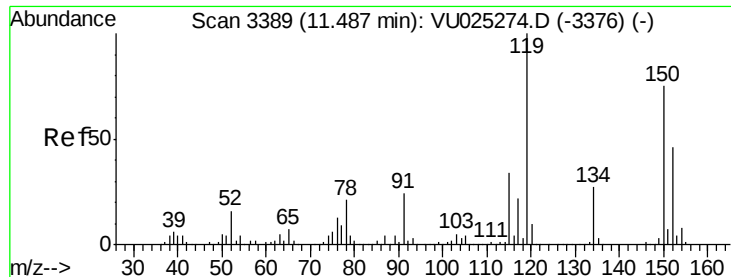


Abundance Ion 116.90 (116.60 to 117.60): VU025352.D (-2551) (-)

Ion 82.00 (81.70 to 82.70): VU025352.D (-2551) (-)

Ion 118.90 (118.60 to 119.60): VU025352.D (-2551) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025352.D

Acq: 12 Jul 2018 20:22

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#07

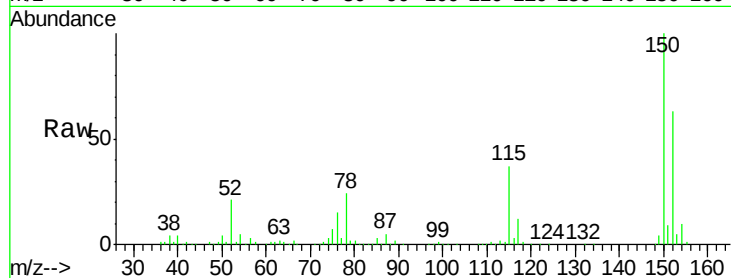
Tot Ion:152 Resp: 146006

Ion Ratio Lower Upper

152 100

115 58.0 40.1 120.3

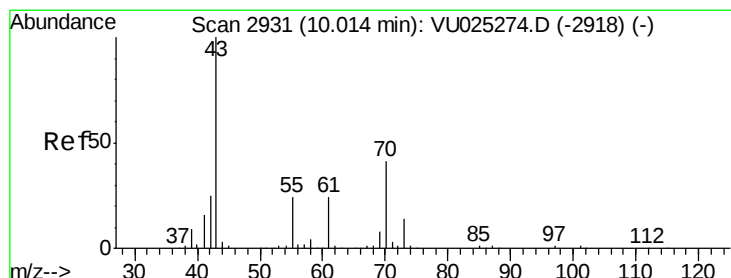
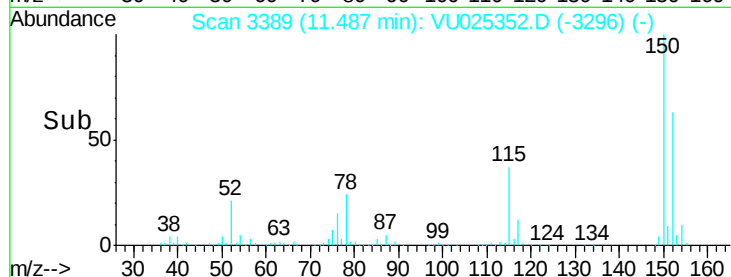
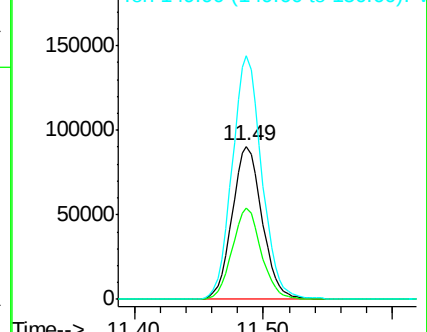
150 157.3 0.0 351.4



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: 1.29 ug/l

RT: 10.03 min Scan# 2935

Delta R.T. 0.01 min

Lab File: VU025352.D

Acq: 12 Jul 2018 20:22

Tgt Ion: 43 Resp: 102

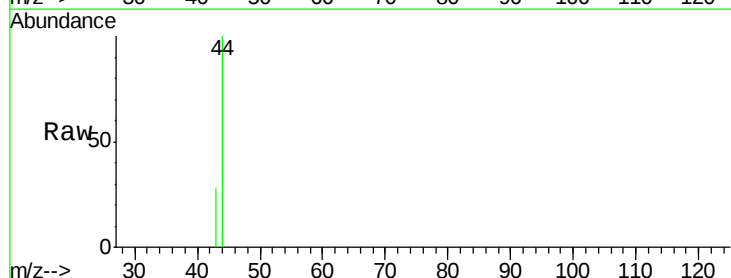
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.2#

55 0.0 19.0 28.6#

61 0.0 19.3 28.9#

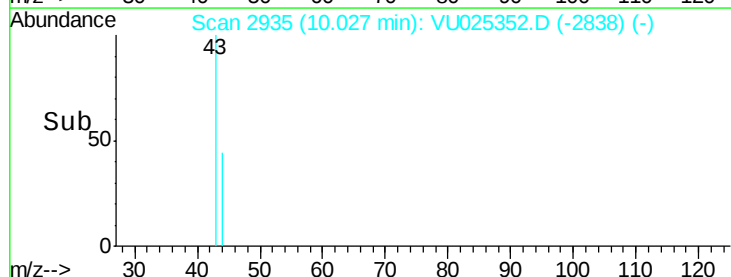
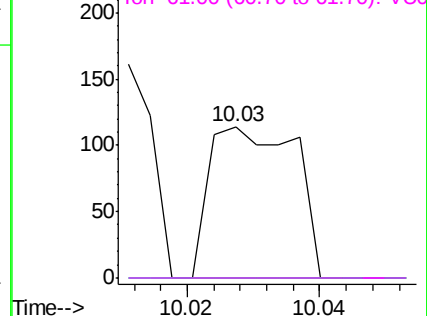


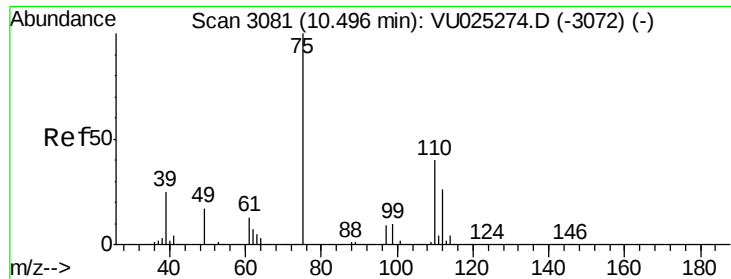
Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 28.14 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025352.D

Acq: 12 Jul 2018 20:22

Instrument :

MSVOA_U

ClientSampleId :

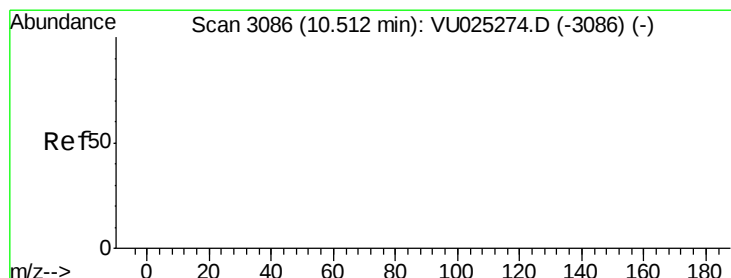
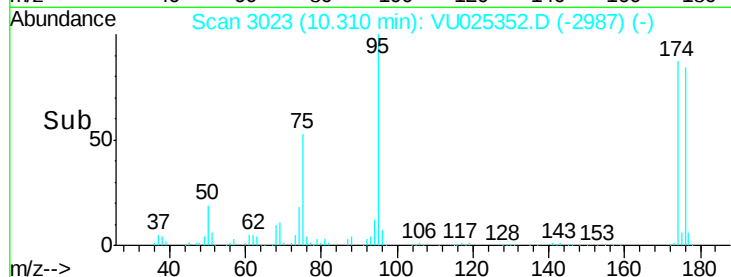
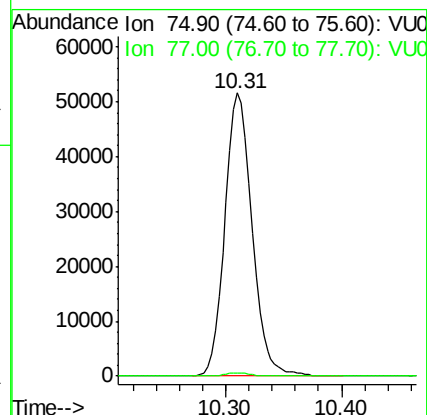
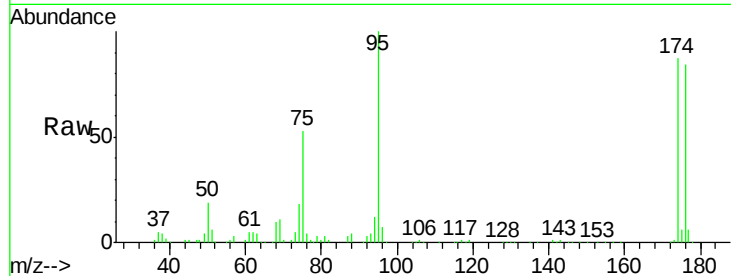
PB111044ZHE#07

Tot Ion: 75 Resp: 83619

Ion Ratio Lower Upper

75 100

77 1.0 20.4 61.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.89 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025352.D

Acq: 12 Jul 2018 20:22

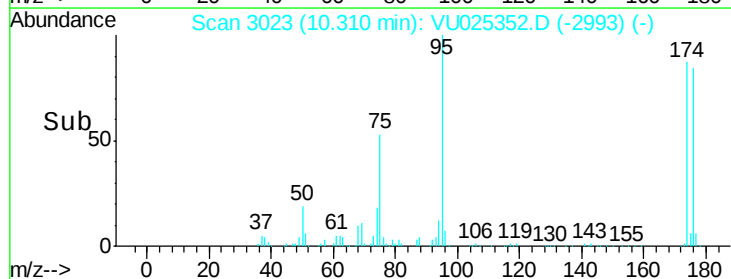
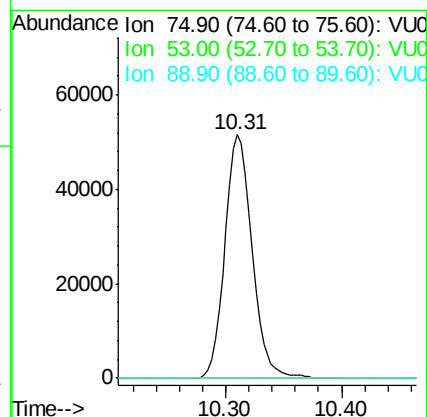
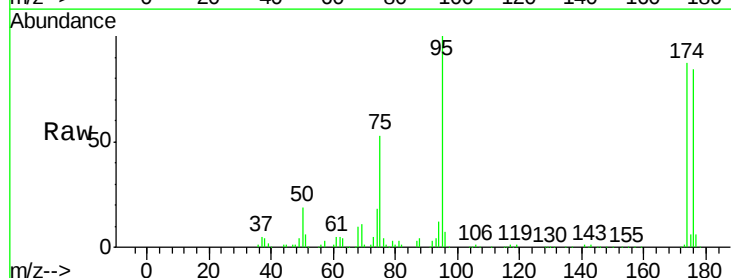
Tgt Ion: 75 Resp: 83619

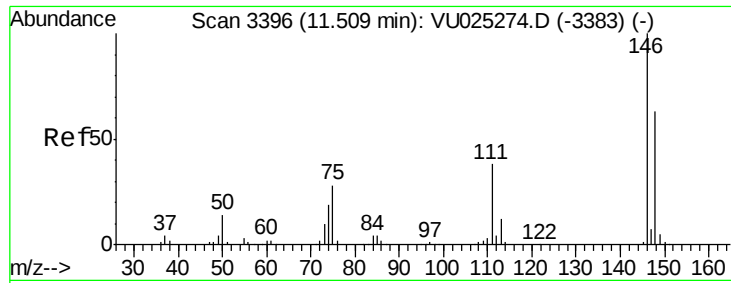
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0





#88

1,4-Dichlorobenzene

Concen: 1.49 ug/l

RT: 11.50 min Scan# 3394

Delta R.T. -0.01 min

Lab File: VU025352.D

Acq: 12 Jul 2018 20:22

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#07

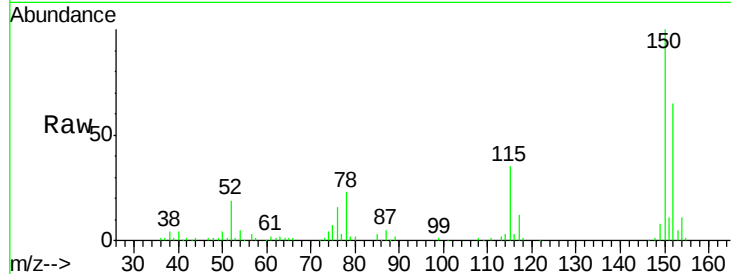
Tot Ion:146 Resp: 21

Ion Ratio Lower Upper

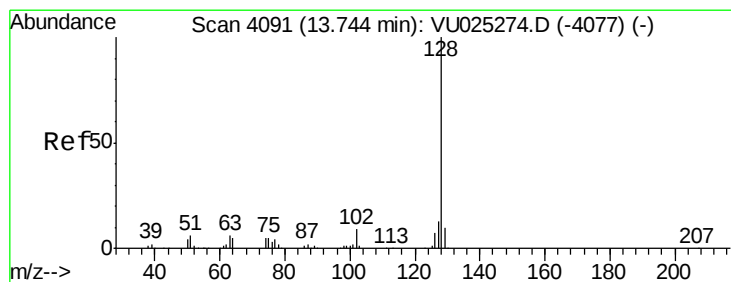
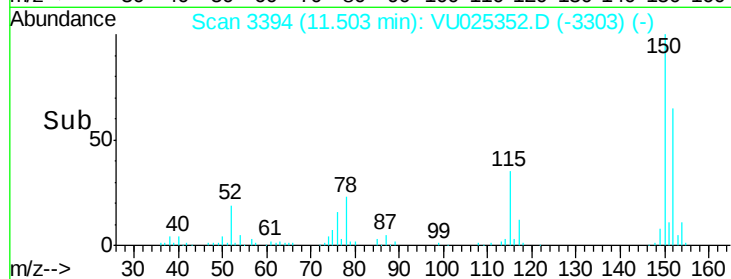
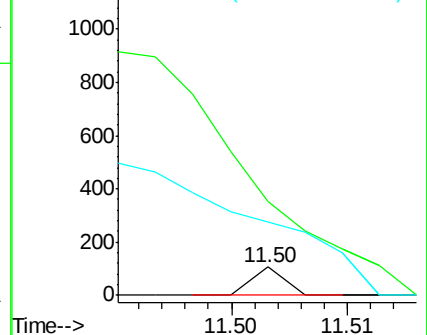
146 100

111 7676.2 19.4 58.1#

148 3614.3 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: 2.42 ug/l

RT: 13.78 min Scan# 4102

Delta R.T. 0.04 min

Lab File: VU025352.D

Acq: 12 Jul 2018 20:22

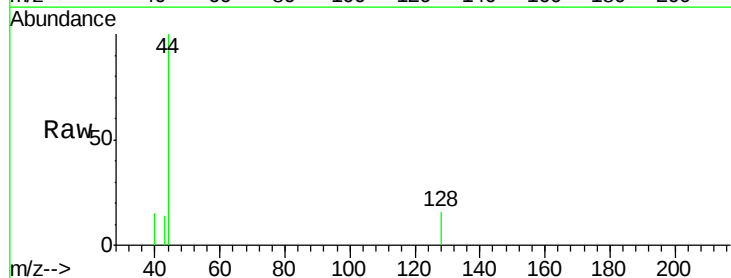
Tgt Ion:128 Resp: 89

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

