

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025369.D
 Acq On : 13 Jul 2018 04:02
 Operator : MD/SY
 Sample : J3824-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 HD-02-071018

Quant Time: Jul 13 04:38:04 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	188464	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	289039	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	263837	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	140077	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	145121	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
35) Dibromofluoromethane	4.89	113	113723	46.64	ug/l	0.00
Spiked Amount			Recovery	=	93.28%	
50) Toluene-d8	7.57	98	414879	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
62) 4-Bromofluorobenzene	10.31	95	154618	46.00	ug/l	0.00
Spiked Amount			Recovery	=	92.00%	

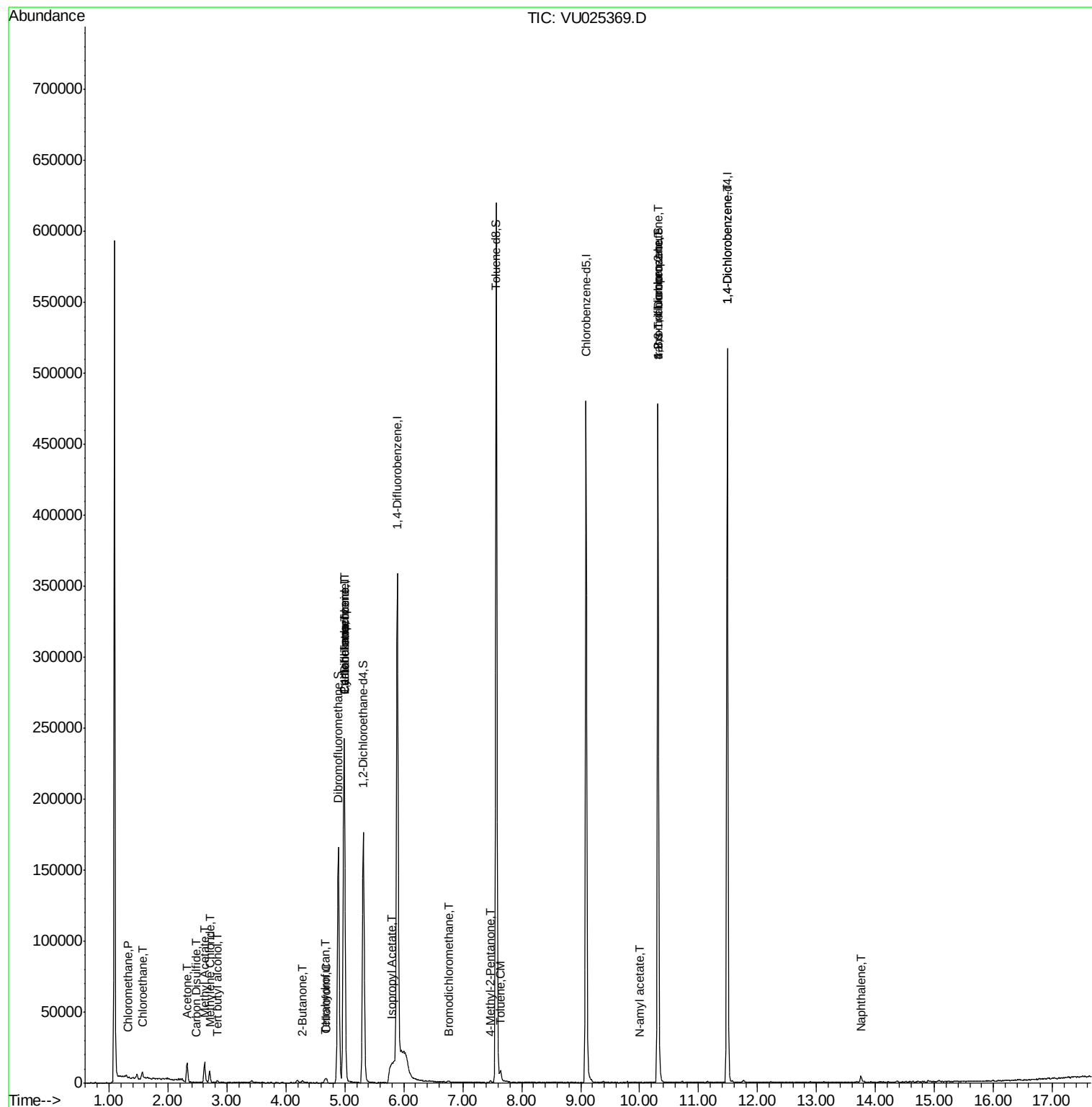
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	423	0.78	ug/l #	42
5) Bromomethane	1.64	94	228	Below Cal		95
6) Chloroethane	1.58	64	40	0.32	ug/l #	43
11) Tert butyl alcohol	2.84	59	499	0.78	ug/l #	73
16) Acetone	2.32	43	13900	13.99	ug/l	99
17) Carbon Disulfide	2.48	76	293	1.98	ug/l #	74
18) Methyl Acetate	2.62	43	17765	5.93	ug/l	99
20) Methylene Chloride	2.71	84	3655	2.28	ug/l	88
25) 2-Butanone	4.28	43	2676	1.32	ug/l	97
29) Tetrahydrofuran	4.65	42	1248	1.03	ug/l #	61
30) Chloroform	4.68	83	2872	0.68	ug/l	96
31) Cyclohexane	4.99	56	3452	1.66	ug/l #	2
36) 1,1-Dichloropropene	4.99	75	12924	4.02	ug/l #	50
38) Carbon Tetrachloride	4.98	117	18213	5.27	ug/l #	16
43) Isopropyl Acetate	5.78	43	10212	1.78	ug/l #	61
47) Bromodichloromethane	6.76	83	732	0.22	ug/l #	88
51) 4-Methyl-2-Pentanone	7.46	43	1399	0.38	ug/l #	72
52) Toluene	7.64	92	2034	0.35	ug/l	87
74) N-amyl acetate	9.99	43	571	1.39	ug/l #	43
76) 1,2,3-Trichloropropane	10.31	75	80164	28.11	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	80164	71.83	ug/l #	100
88) 1,4-Dichlorobenzene	11.50	146	46	1.50	ug/l #	1
95) Naphthalene	13.75	128	5131	2.89	ug/l #	93

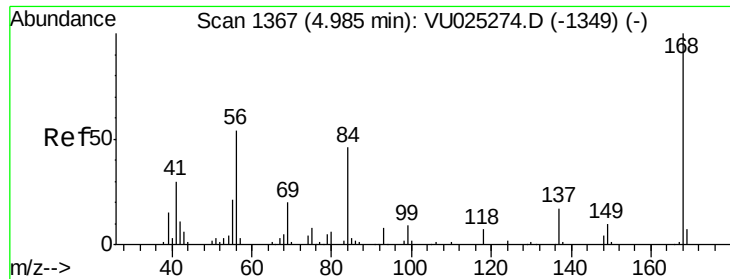
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU025369.D

Acq: 13 Jul 2018 04:02

Instrument :

MSVOA_U

ClientSampleId :

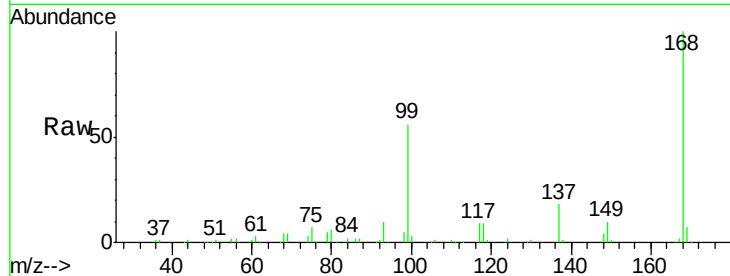
HD-02-071018

Tot Ion:168 Resp: 188464

Ion Ratio Lower Upper

168 100

99 56.4 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

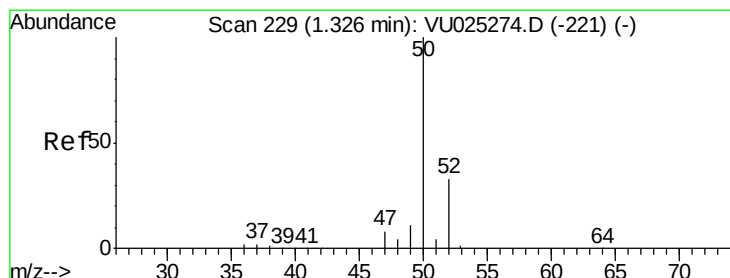
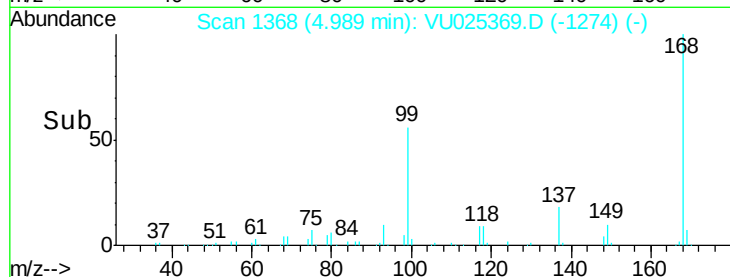
40000

20000

0

Time-->

4.90 4.95 5.00 5.05 5.10



#3

Chloromethane

Concen: 0.78 ug/l

RT: 1.33 min Scan# 229

Delta R.T. 0.00 min

Lab File: VU025369.D

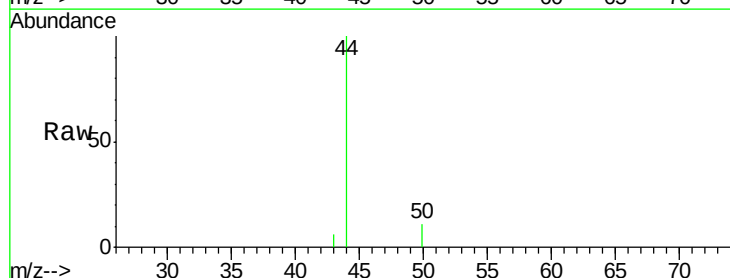
Acq: 13 Jul 2018 04:02

Tgt Ion: 50 Resp: 423

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) (-)

1.33

400

300

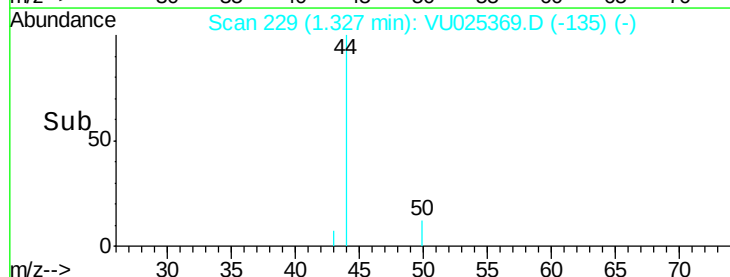
200

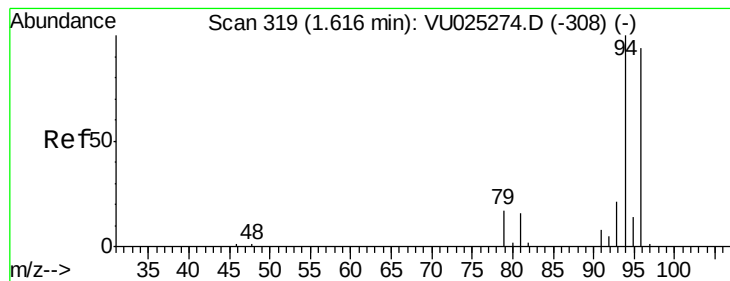
100

0

Time-->

1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU025369.D

Acq: 13 Jul 2018 04:02

Instrument :

MSVOA_U

ClientSampleId :

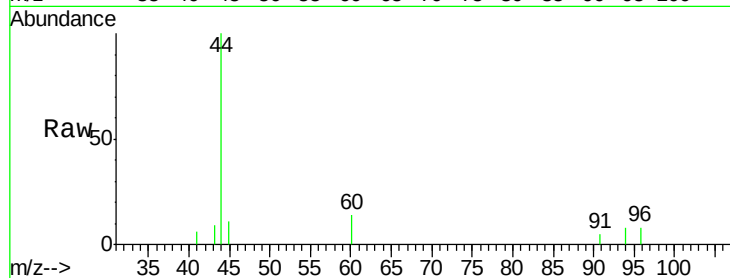
HD-02-071018

Tot Ion: 94 Resp: 228

Ion Ratio Lower Upper

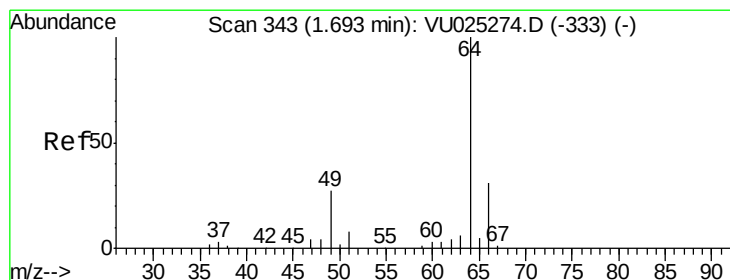
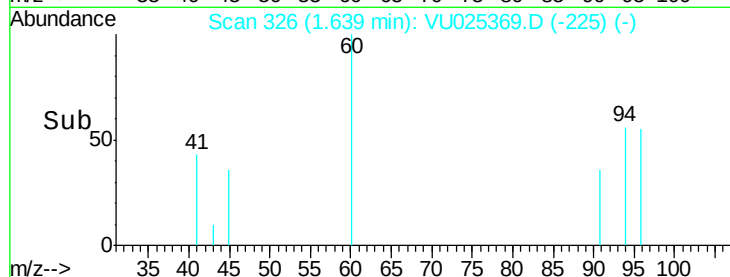
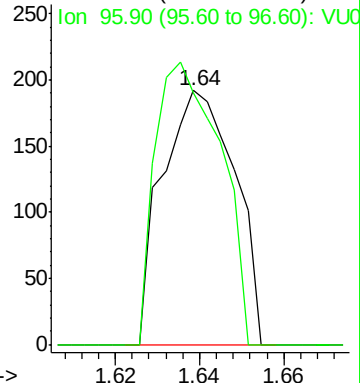
94 100

96 99.0 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: 0.32 ug/l

RT: 1.58 min Scan# 307

Delta R.T. -0.11 min

Lab File: VU025369.D

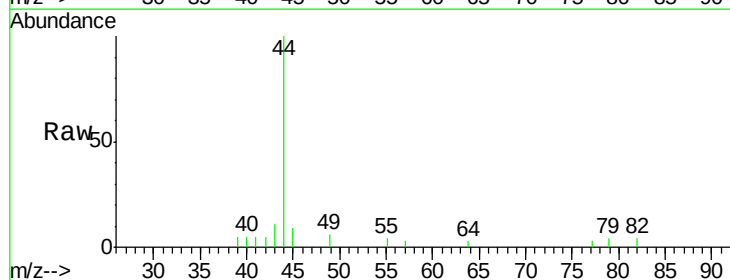
Acq: 13 Jul 2018 04:02

Tgt Ion: 64 Resp: 40

Ion Ratio Lower Upper

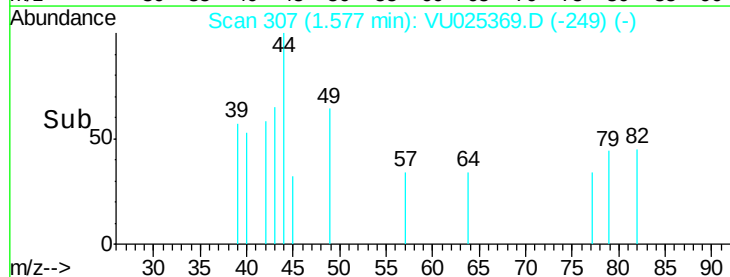
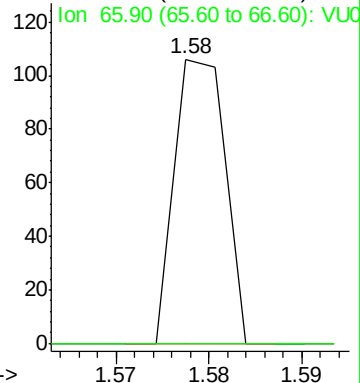
64 100

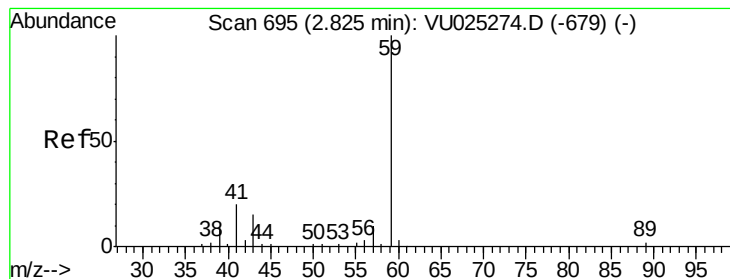
66 0.0 25.0 37.4#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#11

Tert butyl alcohol

Concen: 0.78 ug/l

RT: 2.84 min Scan# 699

Delta R.T. 0.01 min

Lab File: VU025369.D

Acq: 13 Jul 2018 04:02

Instrument :

MSVOA_U

ClientSampleId :

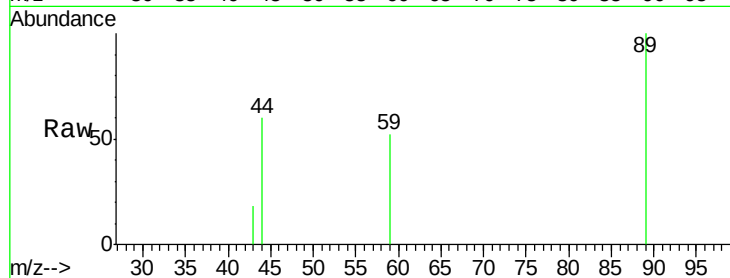
HD-02-071018

Tot Ion: 59 Resp: 499

Ion Ratio Lower Upper

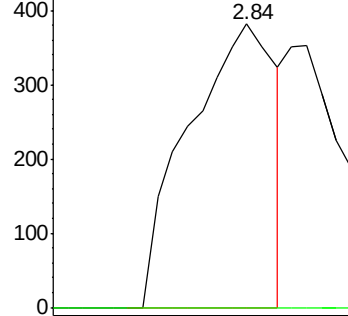
59 100

57 0.0 8.2 12.2#

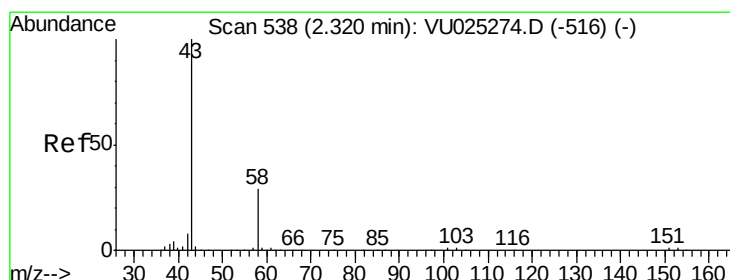
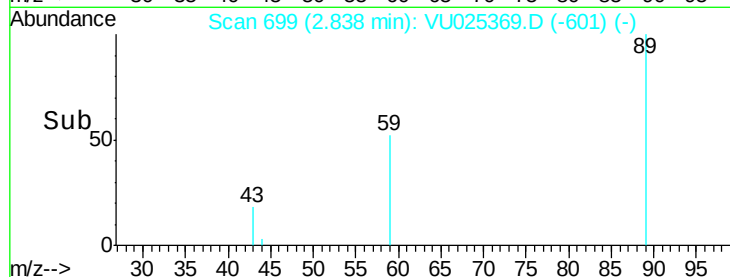


Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0



Time--> 2.80 2.82 2.84



#16

Acetone

Concen: 13.99 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025369.D

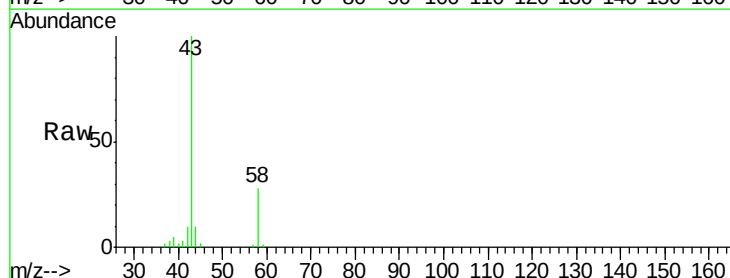
Acq: 13 Jul 2018 04:02

Tgt Ion: 43 Resp: 13900

Ion Ratio Lower Upper

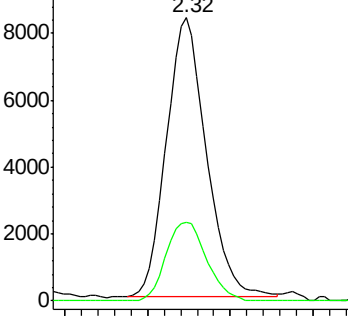
43 100

58 28.5 23.1 34.7

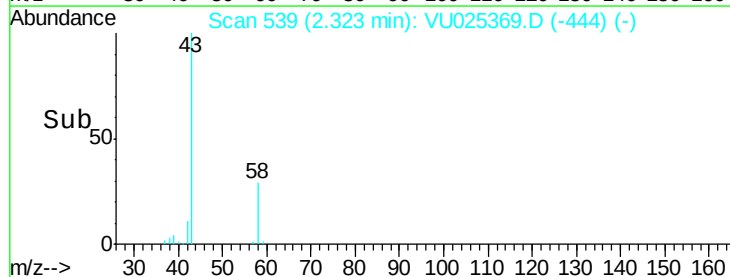


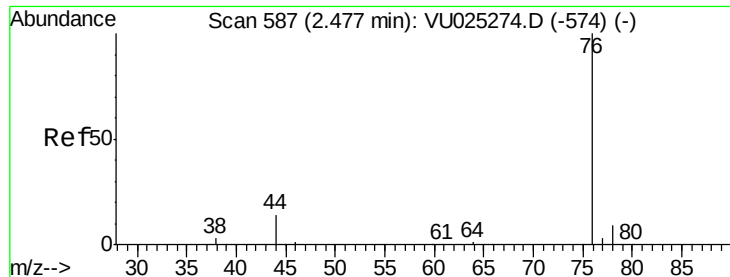
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



Time--> 2.25 2.30 2.35 2.40





#17

Carbon Disulfide

Concen: 1.98 ug/l

RT: 2.48 min Scan# 589

Delta R.T. 0.01 min

Lab File: VU025369.D

Acq: 13 Jul 2018 04:02

Instrument :

MSVOA_U

ClientSampleId :

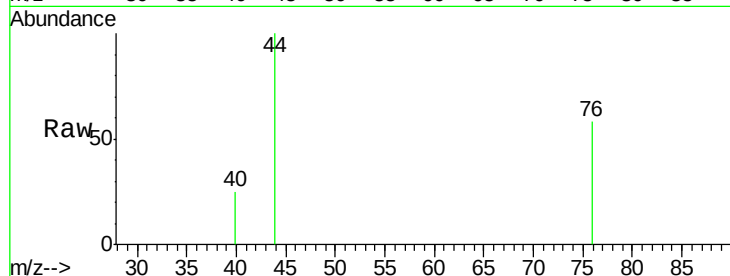
HD-02-071018

Tot Ion: 76 Resp: 293

Ion Ratio Lower Upper

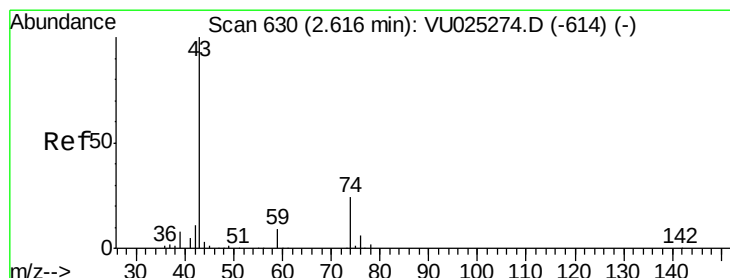
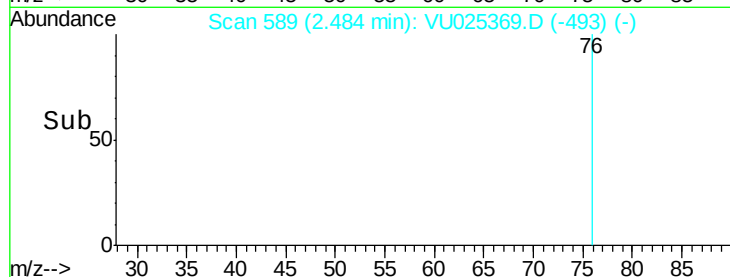
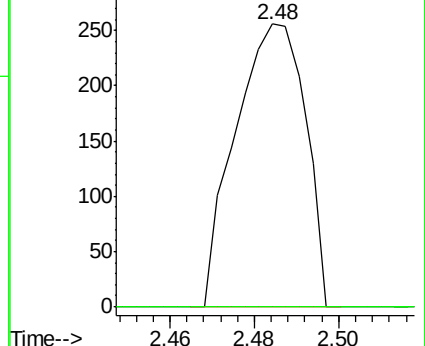
76 100

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

Methyl Acetate

Concen: 5.93 ug/l

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU025369.D

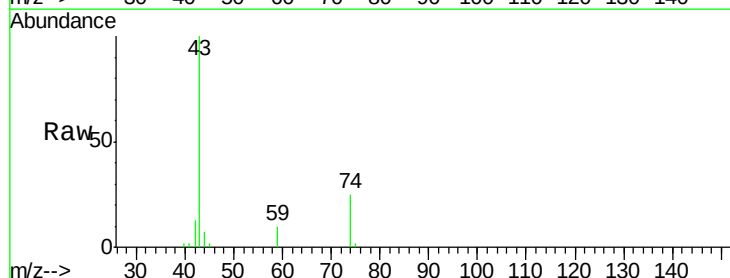
Acq: 13 Jul 2018 04:02

Tgt Ion: 43 Resp: 17765

Ion Ratio Lower Upper

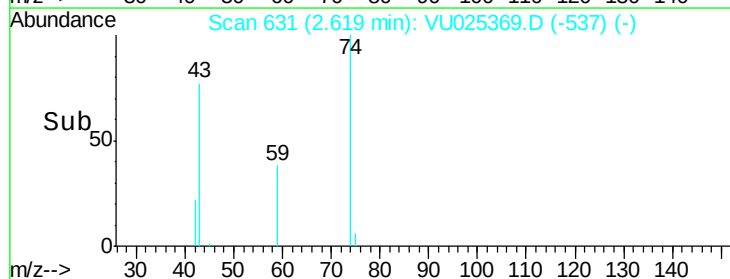
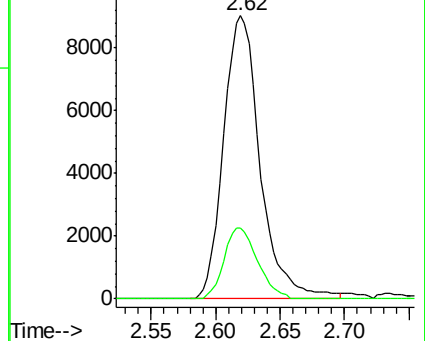
43 100

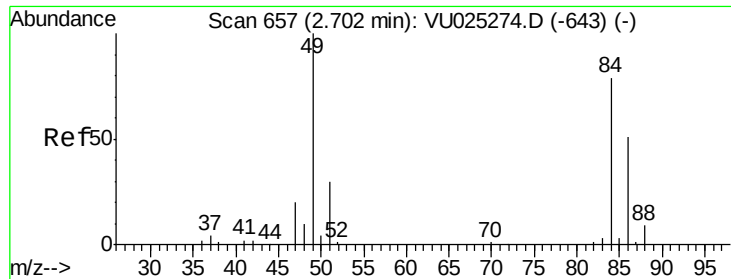
74 22.8 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

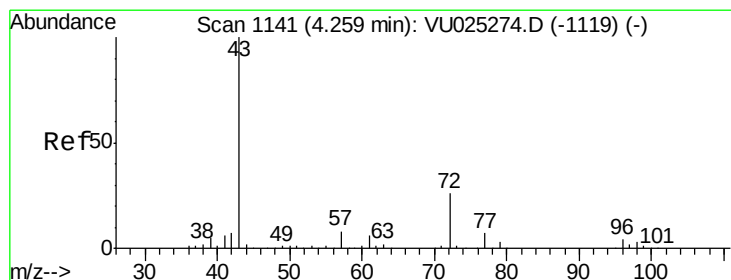
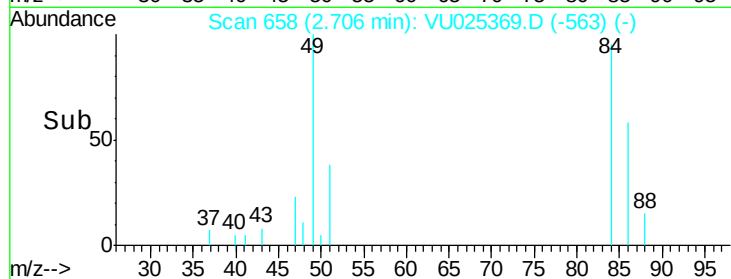
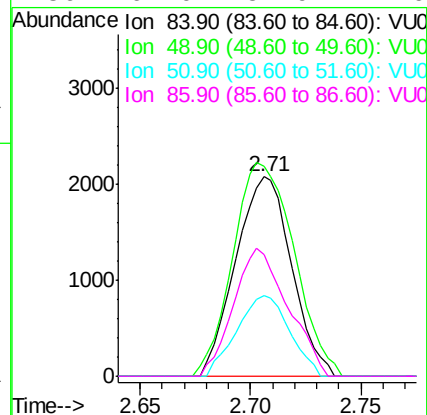
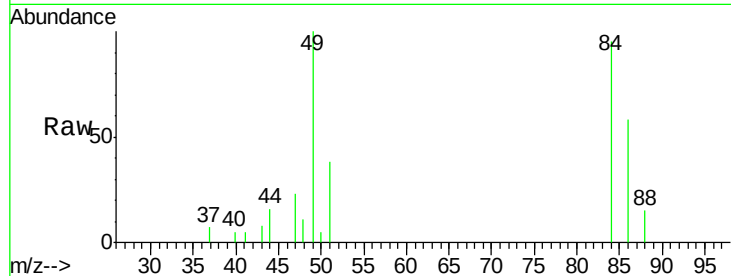




#20
Methvlene Chloride
Concen: 2.28 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU025369.D
Acq: 13 Jul 2018 04:02

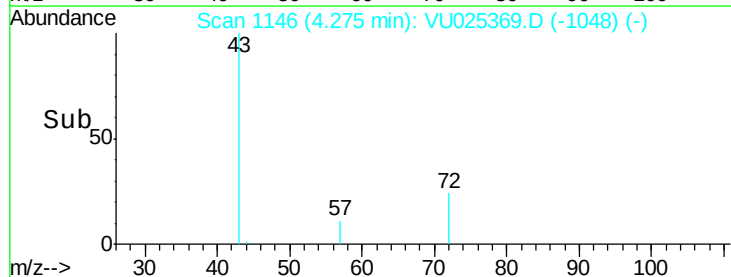
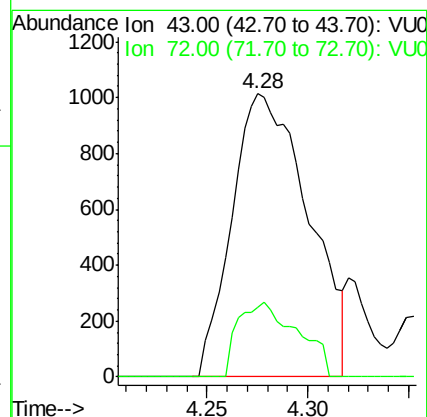
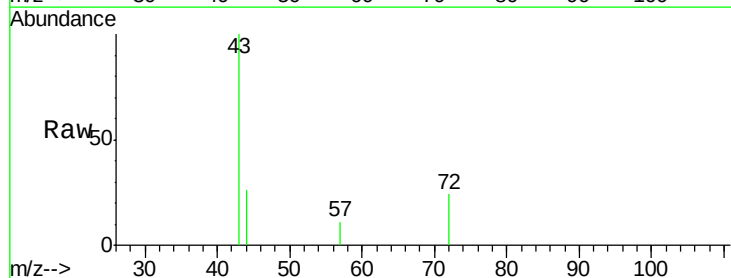
Instrument :
MSVOA_U
ClientSampleId :
HD-02-071018

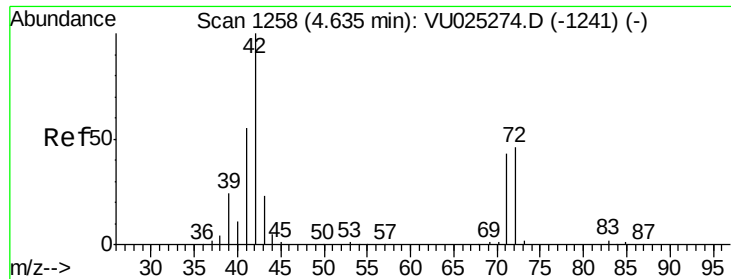
Tot Ion:	84	Resp:	3655
Ion	Ratio	Lower	Upper
84	100		
49	105.2	101.8	152.6
51	40.4	30.8	46.2
86	61.0	51.9	77.9



#25
2-Butanone
Concen: 1.32 ug/l
RT: 4.28 min Scan# 1146
Delta R.T. 0.02 min
Lab File: VU025369.D
Acq: 13 Jul 2018 04:02

Tgt Ion:	43	Resp:	2676
Ion	Ratio	Lower	Upper
43	100		
72	24.5	21.0	31.4





#29

Tetrahydrofuran

Concen: 1.03 ug/l

RT: 4.65 min Scan# 1264

Delta R.T. 0.02 min

Lab File: VU025369.D

Acq: 13 Jul 2018 04:02

Instrument :

MSVOA_U

ClientSampleId :

HD-02-071018

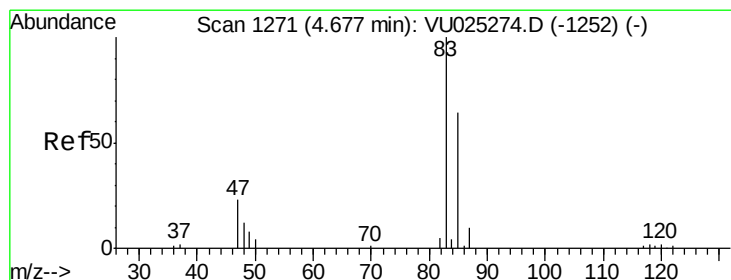
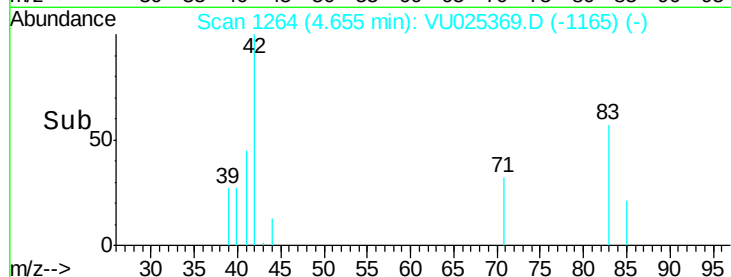
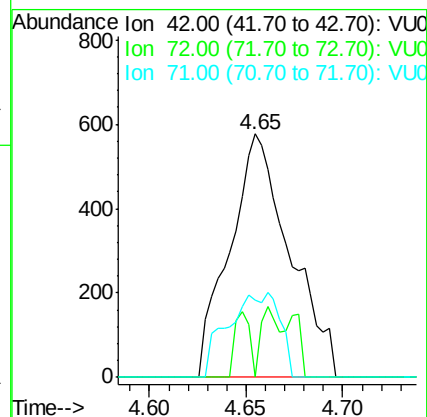
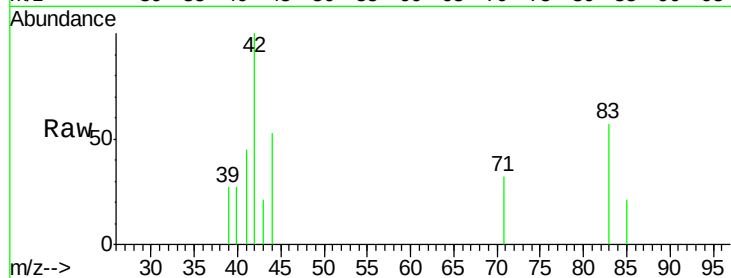
Tot Ion: 42 Resp: 1248

Ion Ratio Lower Upper

42 100

72 8.5 36.7 55.1#

71 30.0 33.9 50.9#



#30

Chloroform

Concen: 0.68 ug/l

RT: 4.68 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VU025369.D

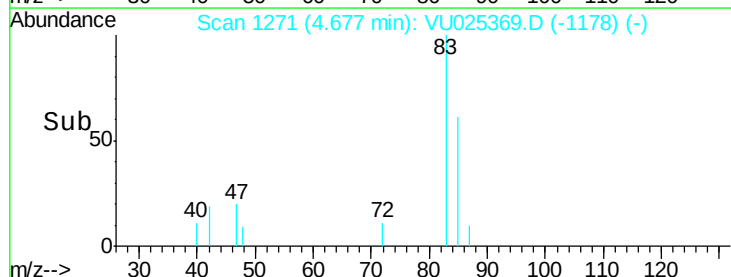
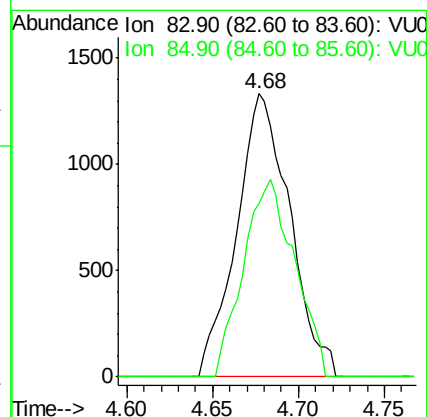
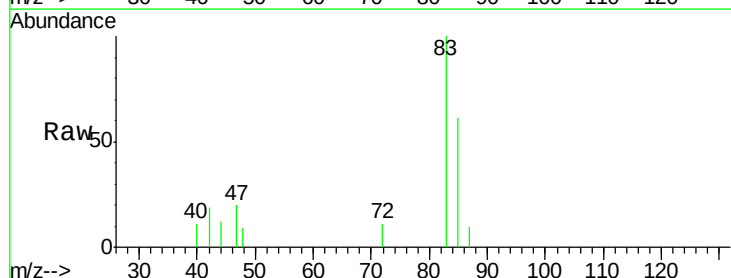
Acq: 13 Jul 2018 04:02

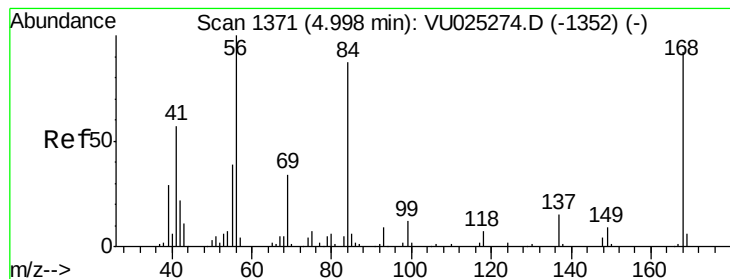
Tgt Ion: 83 Resp: 2872

Ion Ratio Lower Upper

83 100

85 61.2 51.5 77.3





#31

Cyclohexane

Concen: 1.66 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. -0.01 min

Lab File: VU025369.D

Acq: 13 Jul 2018 04:02

Instrument :

MSVOA_U

ClientSampleId :

HD-02-071018

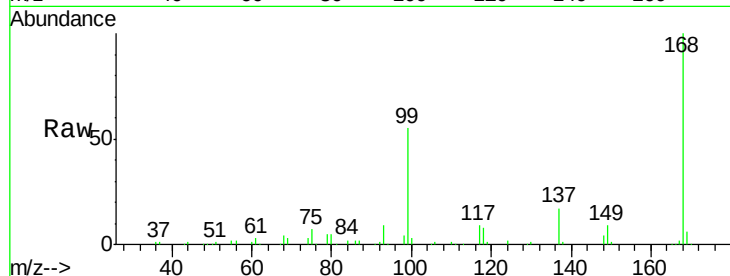
Tot Ion: 56 Resp: 3452

Ion Ratio Lower Upper

56 100

69 177.4 26.8 40.2#

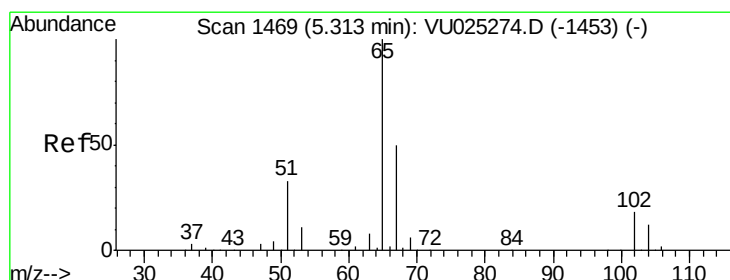
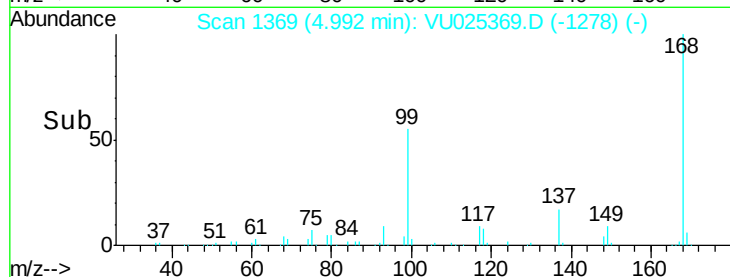
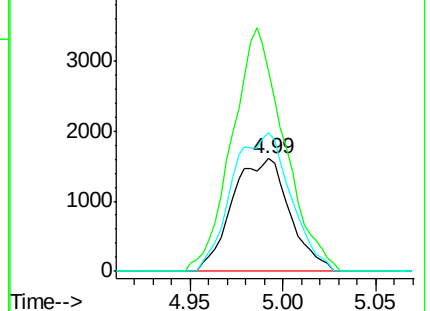
84 122.8 69.7 104.5#



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: 49.56 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025369.D

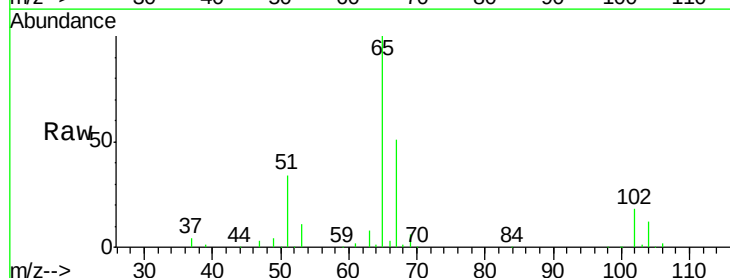
Acq: 13 Jul 2018 04:02

Tgt Ion: 65 Resp: 145121

Ion Ratio Lower Upper

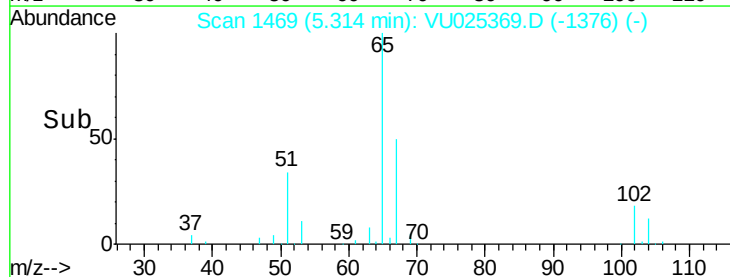
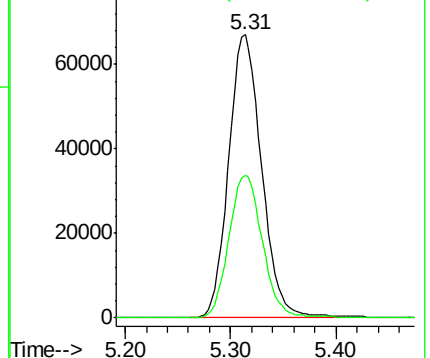
65 100

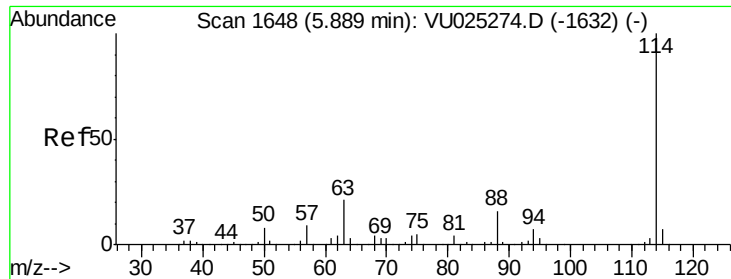
67 51.0 0.0 103.6



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: VU025369.D

Acq: 13 Jul 2018 04:02

Instrument :

MSVOA_U

ClientSampleId :

HD-02-071018

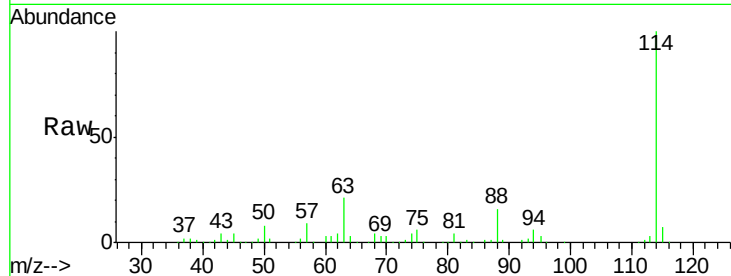
Tot Ion:114 Resp: 289039

Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.6

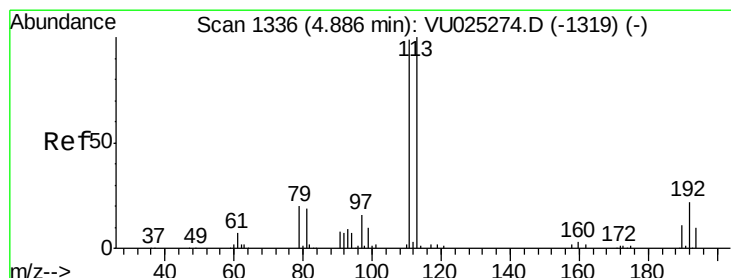
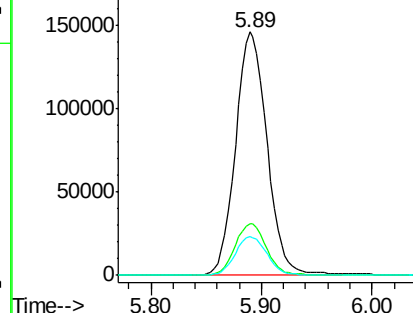
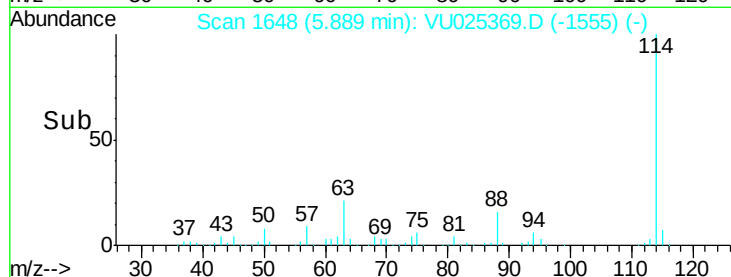
88 15.8 0.0 32.4



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: 46.64 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025369.D

Acq: 13 Jul 2018 04:02

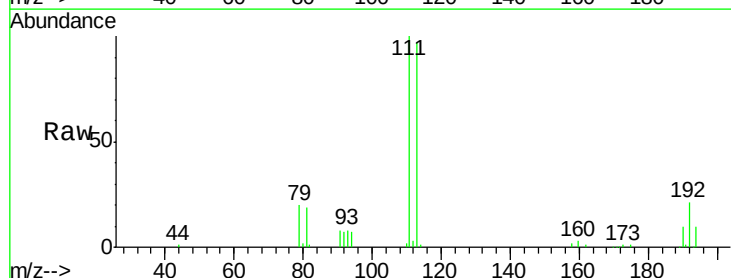
Tgt Ion:113 Resp: 113723

Ion Ratio Lower Upper

113 100

111 101.4 81.7 122.5

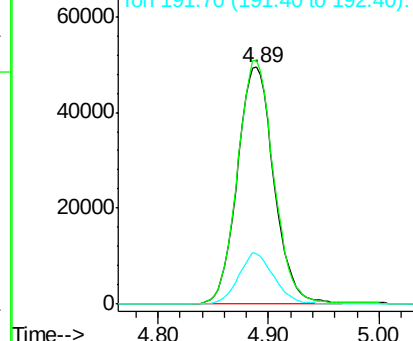
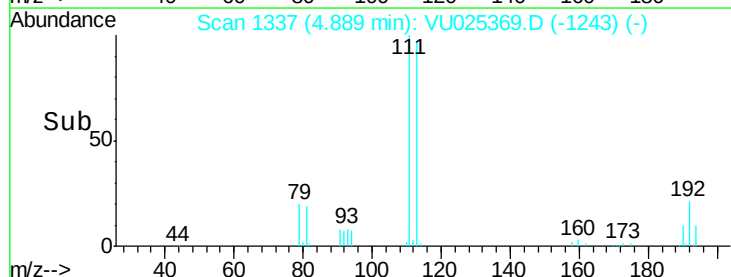
192 20.8 17.1 25.7

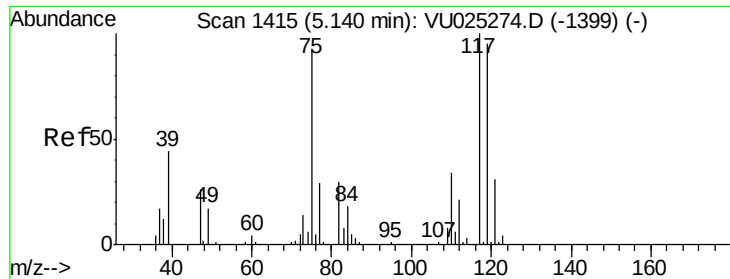


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.02 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025369.D

Acq: 13 Jul 2018 04:02

Instrument :

MSVOA_U

ClientSampleId :

HD-02-071018

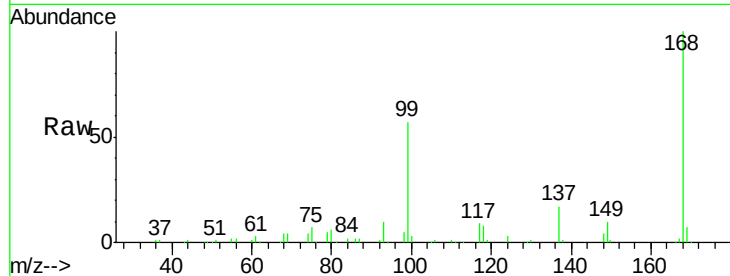
Tot Ion: 75 Resp: 12924

Ion Ratio Lower Upper

75 100

110 9.4 17.6 52.9#

77 0.0 24.4 36.6#

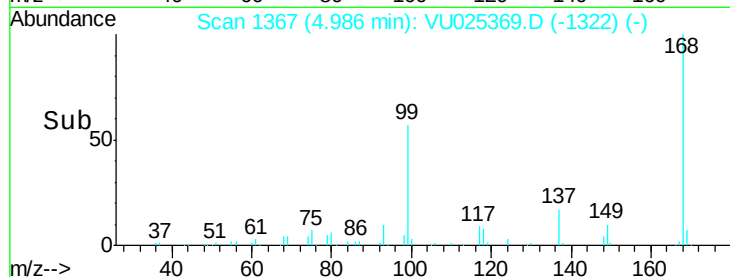


Abundance Ion 74.90 (74.60 to 75.60): VU025274.D (-1399) (-)

Ion 109.90 (109.60 to 110.60): VU025274.D (-1399) (-)

Ion 76.90 (76.60 to 77.60): VU025274.D (-1399) (-)

Time-->



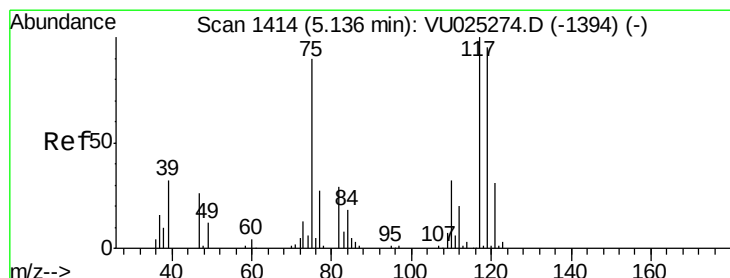
Abundance

Ion 74.90 (74.60 to 75.60): VU025274.D (-1399) (-)

Ion 109.90 (109.60 to 110.60): VU025274.D (-1399) (-)

Ion 76.90 (76.60 to 77.60): VU025274.D (-1399) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.27 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.15 min

Lab File: VU025369.D

Acq: 13 Jul 2018 04:02

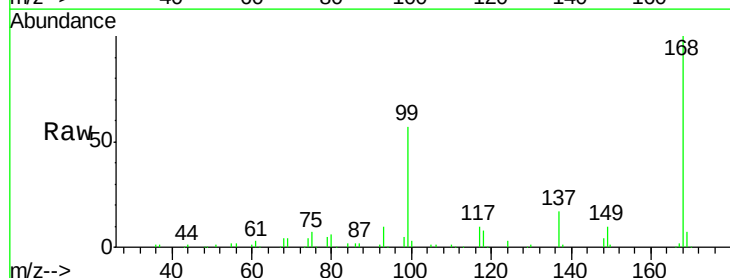
Tgt Ion: 117 Resp: 18213

Ion Ratio Lower Upper

117 100

119 4.4 75.7 113.5#

121 0.0 24.6 36.8#

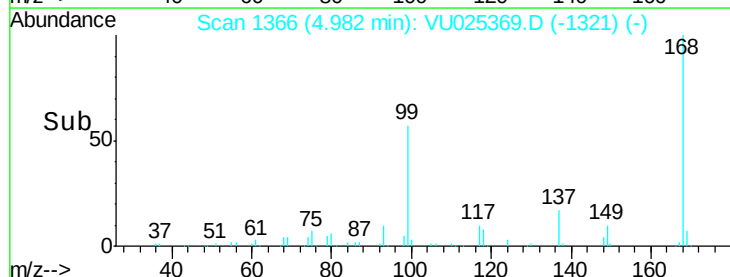


Abundance Ion 116.80 (116.50 to 117.50): VU025274.D (-1394) (-)

Ion 118.80 (118.50 to 119.50): VU025274.D (-1394) (-)

Ion 120.80 (120.50 to 121.50): VU025274.D (-1394) (-)

Time-->



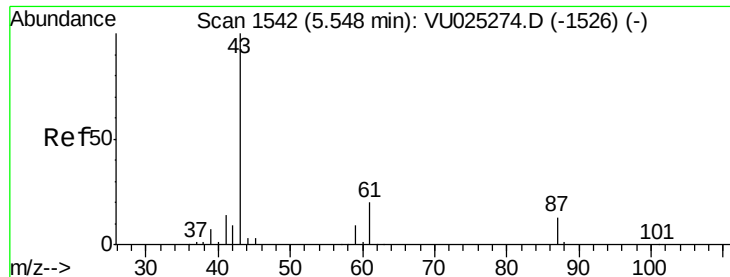
Abundance

Ion 116.80 (116.50 to 117.50): VU025274.D (-1394) (-)

Ion 118.80 (118.50 to 119.50): VU025274.D (-1394) (-)

Ion 120.80 (120.50 to 121.50): VU025274.D (-1394) (-)

Time-->



#43

Isopropyl Acetate

Concen: 1.78 ug/l

RT: 5.78 min Scan# 1615

Delta R.T. 0.24 min

Lab File: VU025369.D

Acq: 13 Jul 2018 04:02

Instrument :

MSVOA_U

ClientSampleId :

HD-02-071018

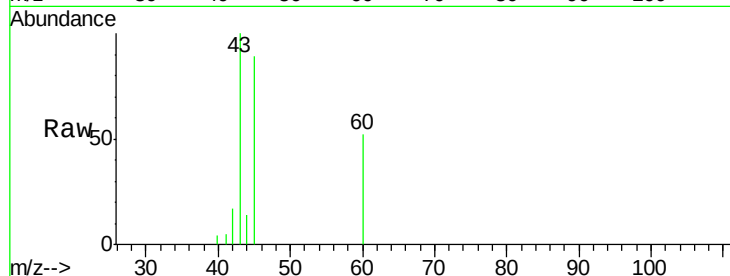
Tot Ion: 43 Resp: 10212

Ion Ratio Lower Upper

43 100

61 0.0 15.5 23.3#

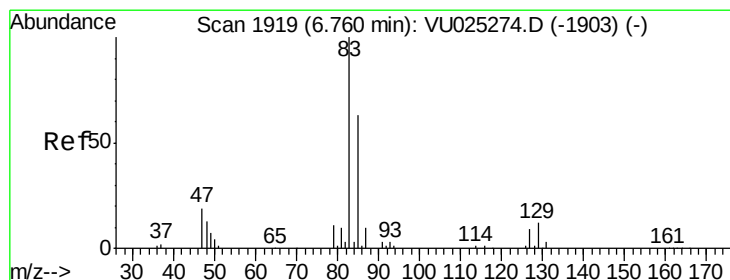
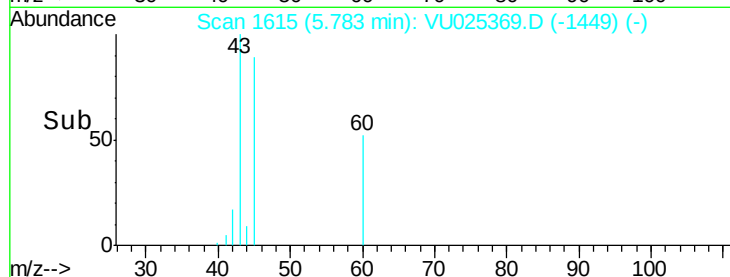
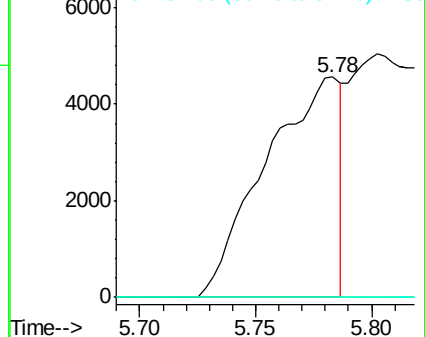
87 0.0 10.6 16.0#



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



#47

Bromodichloromethane

Concen: 0.22 ug/l

RT: 6.76 min Scan# 1920

Delta R.T. 0.00 min

Lab File: VU025369.D

Acq: 13 Jul 2018 04:02

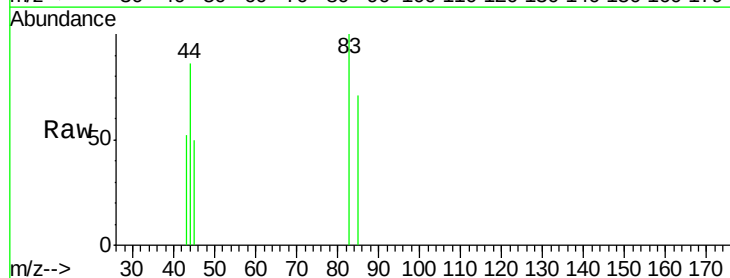
Tgt Ion: 83 Resp: 732

Ion Ratio Lower Upper

83 100

85 70.6 50.2 75.4

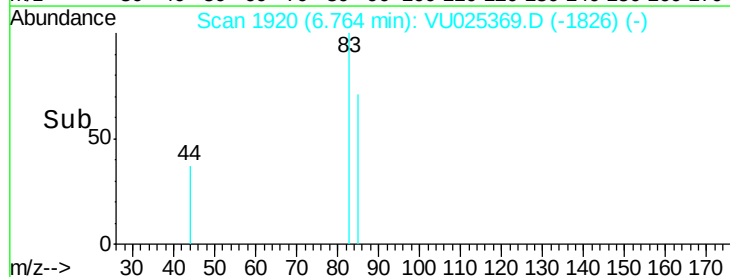
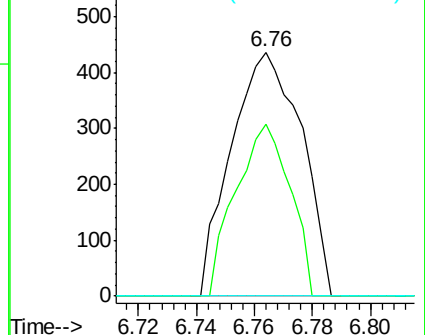
127 0.0 7.2 10.8#

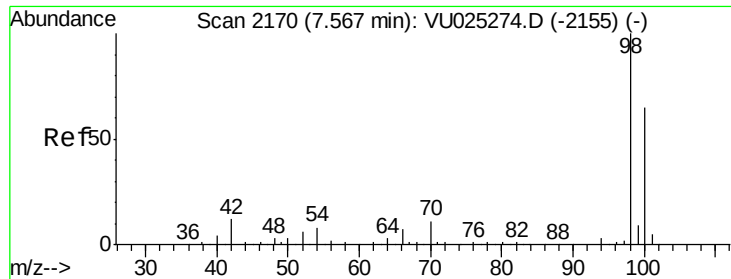


Abundance Ion 82.90 (82.60 to 83.60): VU0

Ion 84.90 (84.60 to 85.60): VU0

Ion 126.80 (126.50 to 127.50): V

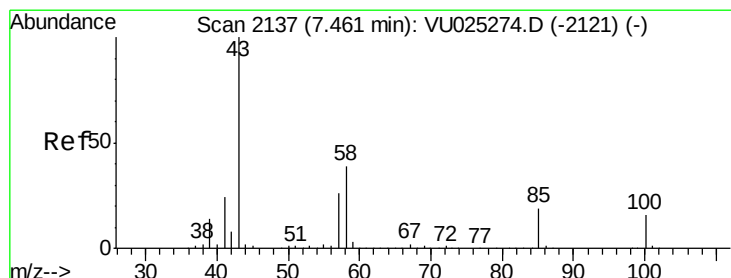
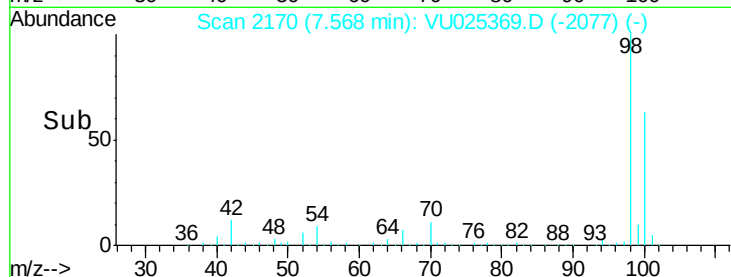
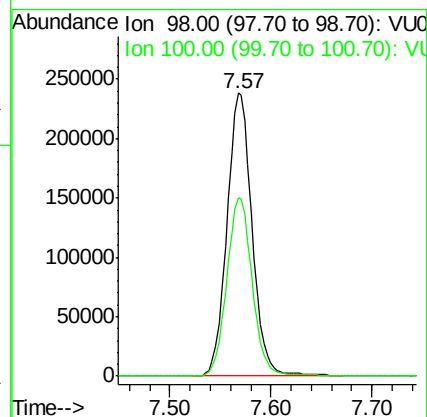
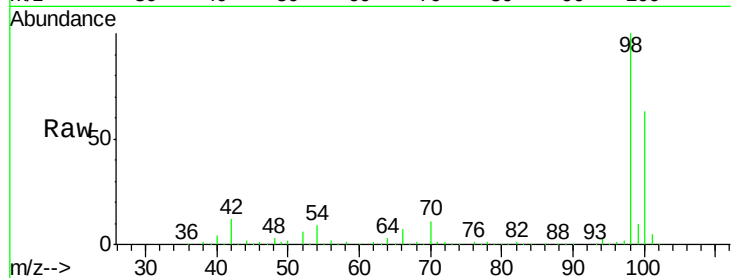




#50
Toluene-d8
Concen: 49.69 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. 0.00 min
Lab File: VU025369.D
Acq: 13 Jul 2018 04:02

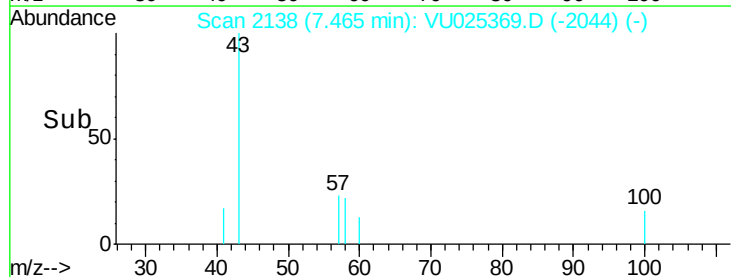
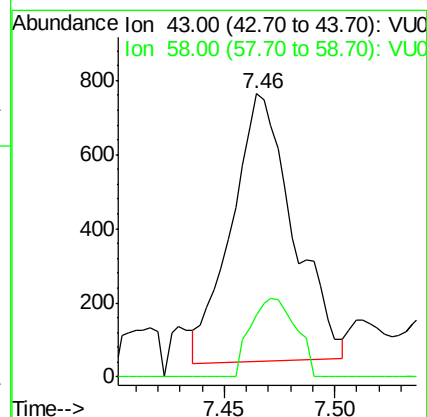
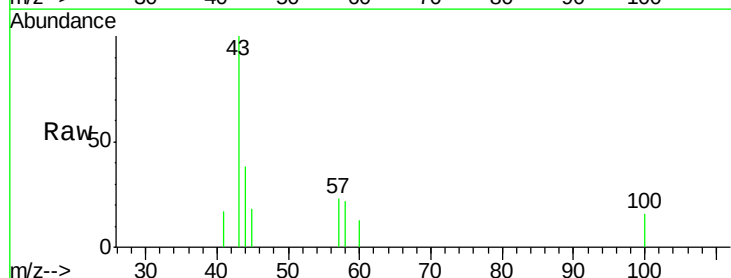
Instrument :
MSVOA_U
ClientSampleId :
HD-02-071018

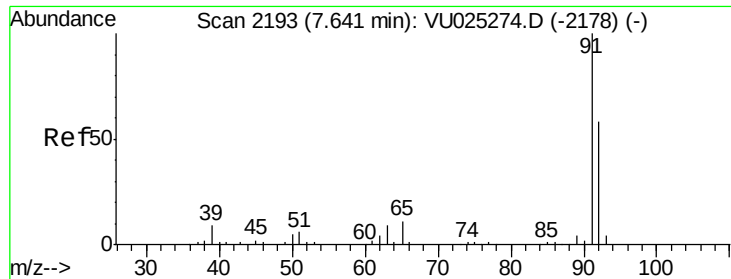
Tot Ion: 98 Resp: 414879
Ion Ratio Lower Upper
98 100
100 63.5 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.38 ug/l
RT: 7.46 min Scan# 2138
Delta R.T. 0.00 min
Lab File: VU025369.D
Acq: 13 Jul 2018 04:02

Tgt Ion: 43 Resp: 1399
Ion Ratio Lower Upper
43 100
58 21.7 31.0 46.4#





#52

Toluene

Concen: 0.35 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU025369.D

Acq: 13 Jul 2018 04:02

Instrument :

MSVOA_U

ClientSampleId :

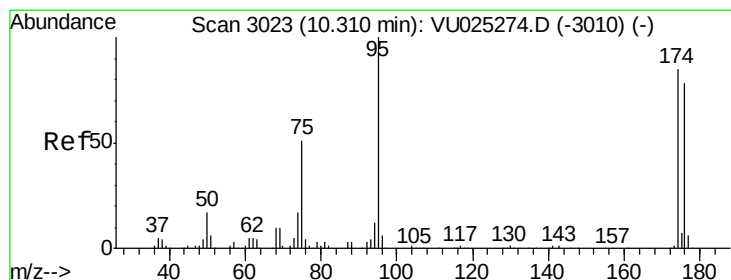
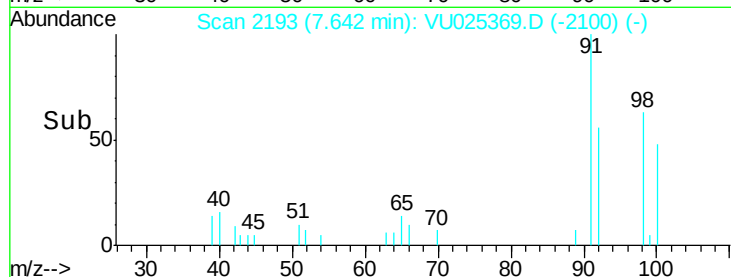
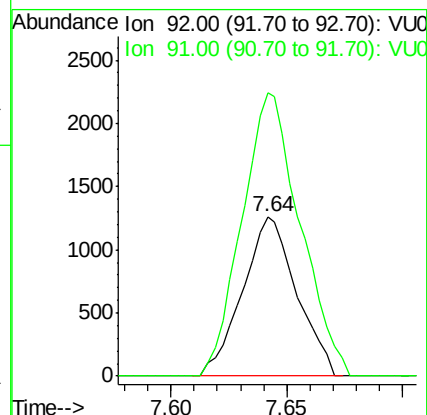
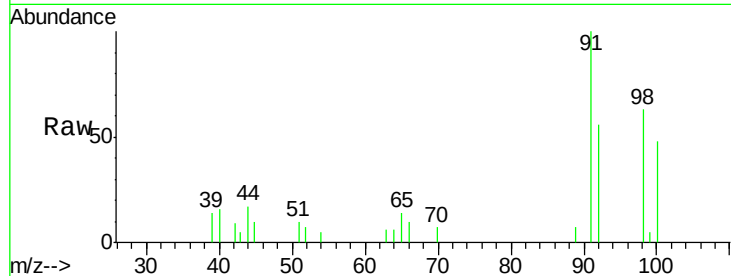
HD-02-071018

Tot Ion: 92 Resp: 2034

Ion Ratio Lower Upper

92 100

91 191.7 139.2 208.8



#62

4-Bromofluorobenzene

Concen: 46.00 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025369.D

Acq: 13 Jul 2018 04:02

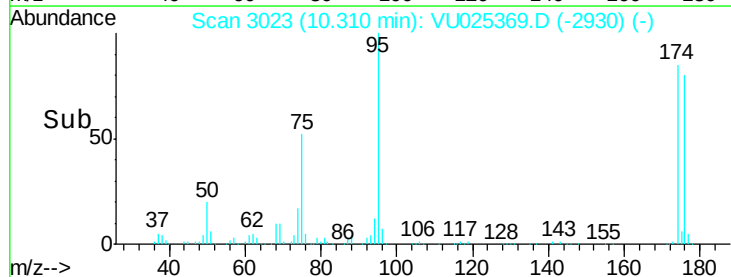
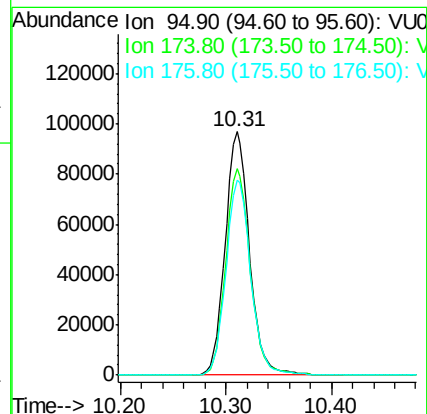
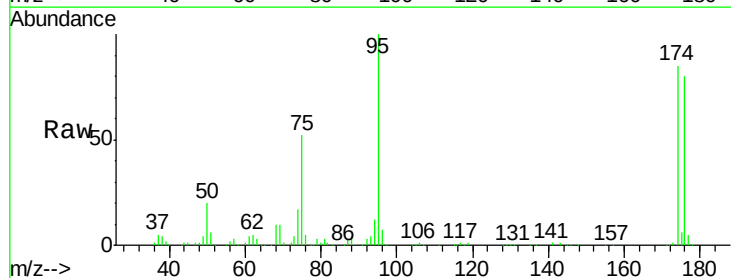
Tgt Ion: 95 Resp: 154618

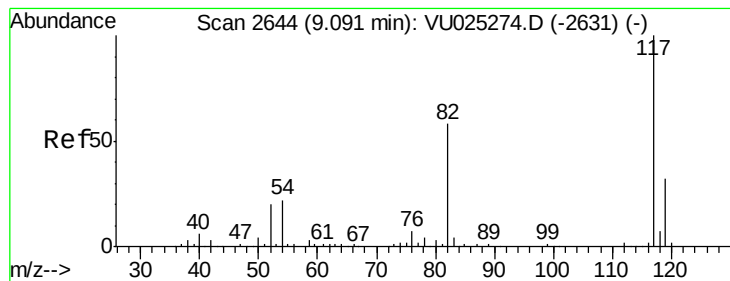
Ion Ratio Lower Upper

95 100

174 85.7 0.0 172.2

176 81.6 0.0 162.6





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VU025369.D

Acq: 13 Jul 2018 04:02

Instrument :

MSVOA_U

ClientSampleId :

HD-02-071018

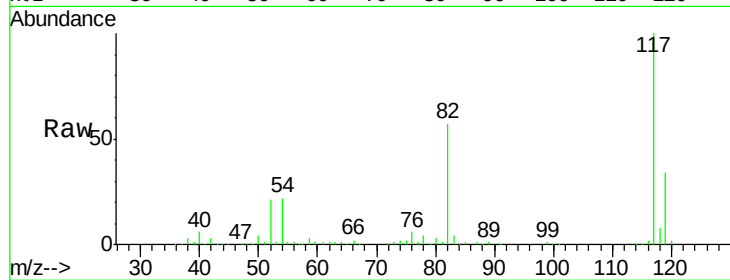
Tot Ion:117 Resp: 263837

Ion Ratio Lower Upper

117 100

82 57.2 46.0 69.0

119 33.7 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

200000

150000

100000

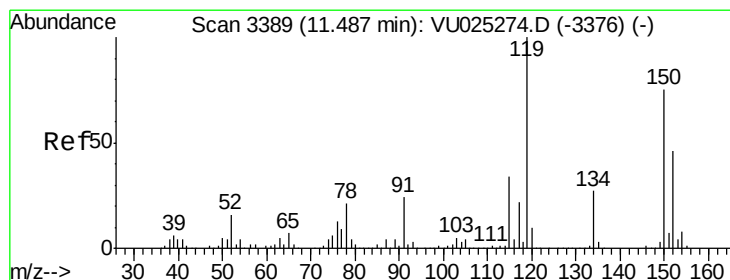
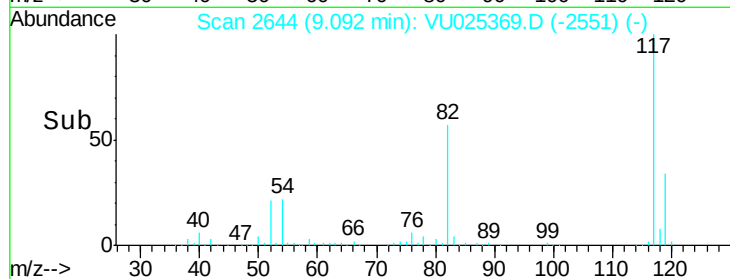
50000

0

9.09

9.05 9.10 9.15 9.20

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: VU025369.D

Acq: 13 Jul 2018 04:02

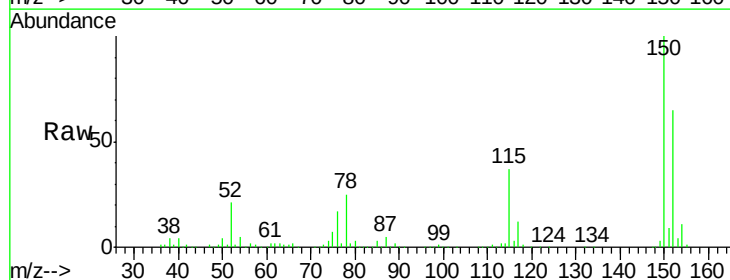
Tgt Ion:152 Resp: 140077

Ion Ratio Lower Upper

152 100

115 56.1 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

150000

100000

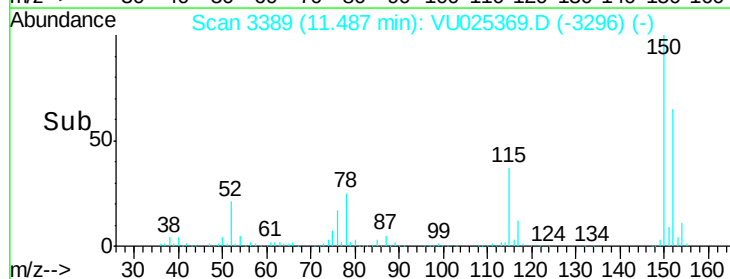
50000

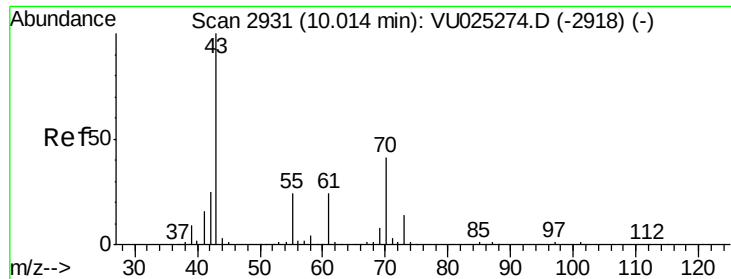
0

11.49

11.40 11.50

Time-->





#74

N-amvl acetate

Concen: 1.39 ug/l

RT: 9.99 min Scan# 2924

Delta R.T. -0.02 min

Lab File: VU025369.D

Acq: 13 Jul 2018 04:02

Instrument :

MSVOA_U

ClientSampleId :

HD-02-071018

Tot Ion: 43 Resp: 571

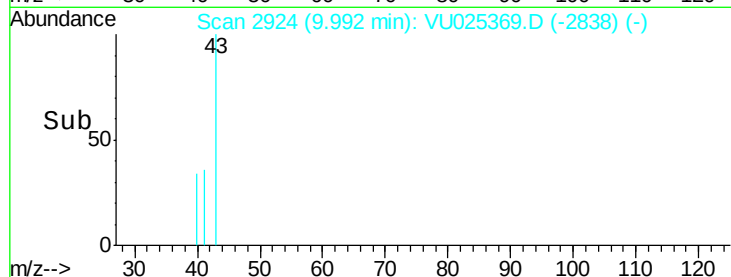
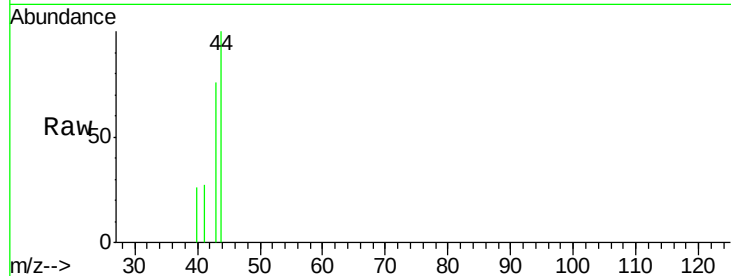
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.2#

55 0.0 19.0 28.6#

61 0.0 19.3 28.9#

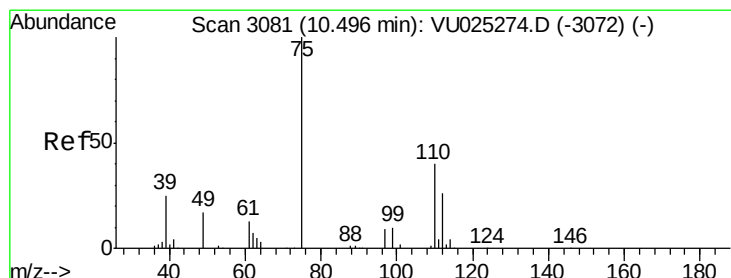
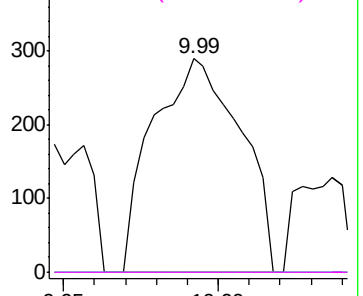


Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 28.11 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025369.D

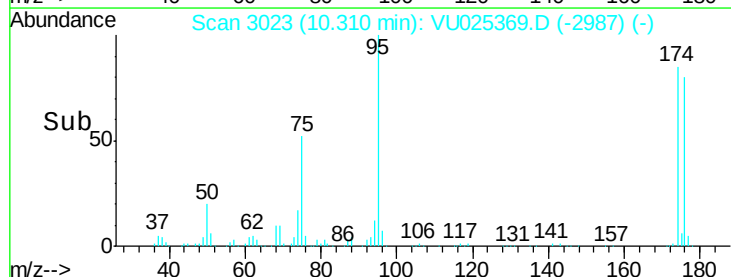
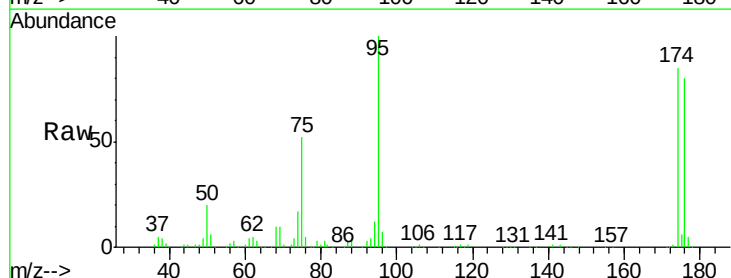
Acq: 13 Jul 2018 04:02

Tgt Ion: 75 Resp: 80164

Ion Ratio Lower Upper

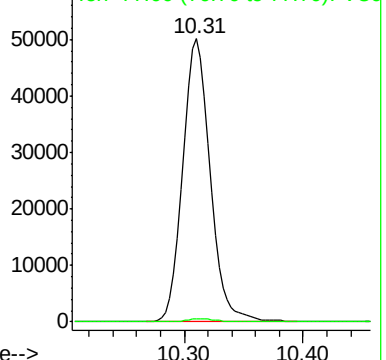
75 100

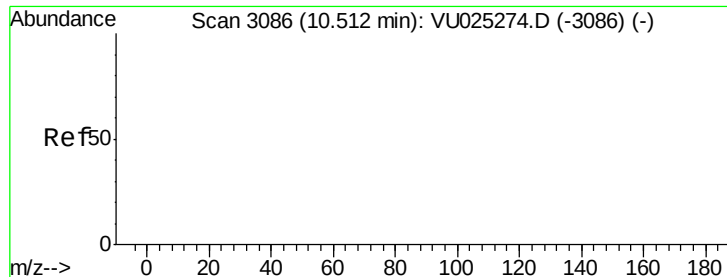
77 0.6 20.4 61.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81

trans-1,4-Dichloro-2-butene

Concen: 71.83 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025369.D

Acq: 13 Jul 2018 04:02

Instrument :

MSVOA_U

ClientSampleId :

HD-02-071018

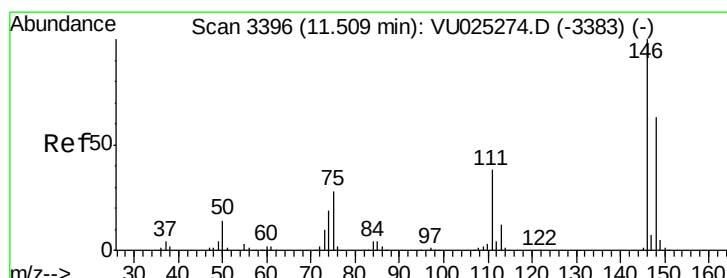
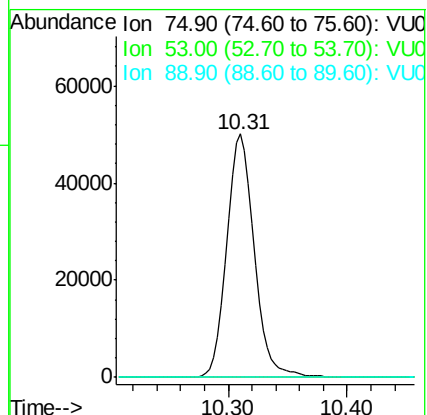
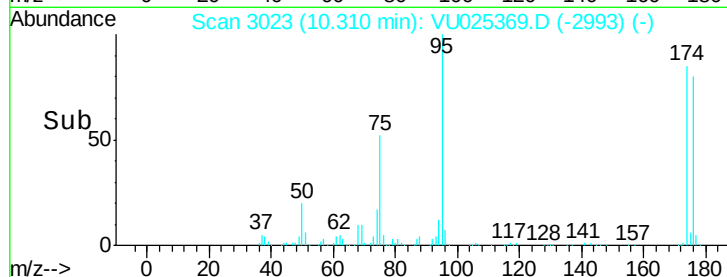
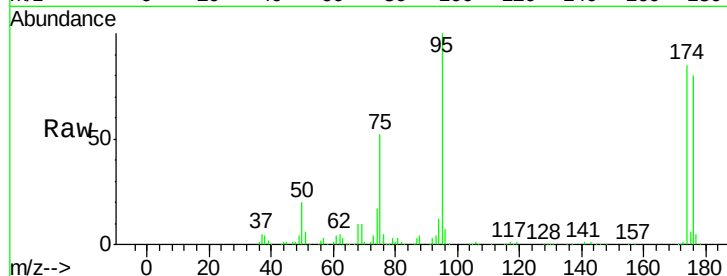
Tot Ion: 75 Resp: 80164

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: 11.50 min Scan# 3392

Delta R.T. -0.01 min

Lab File: VU025369.D

Acq: 13 Jul 2018 04:02

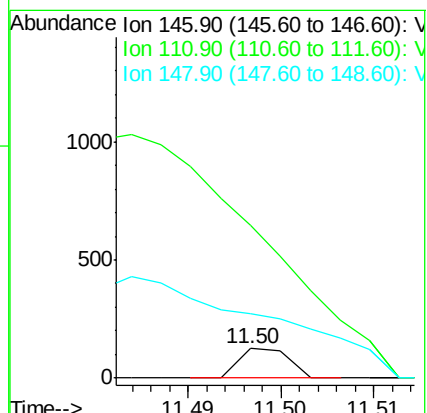
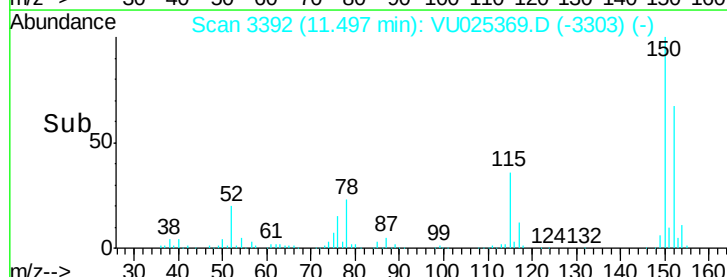
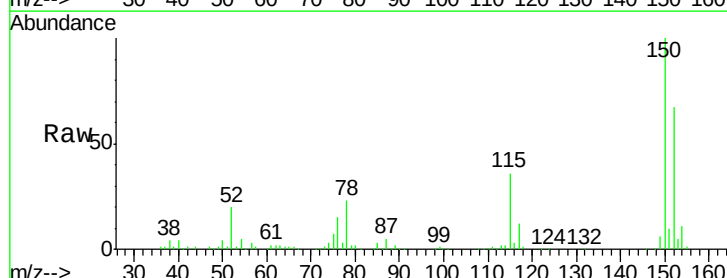
Tgt Ion: 146 Resp: 46

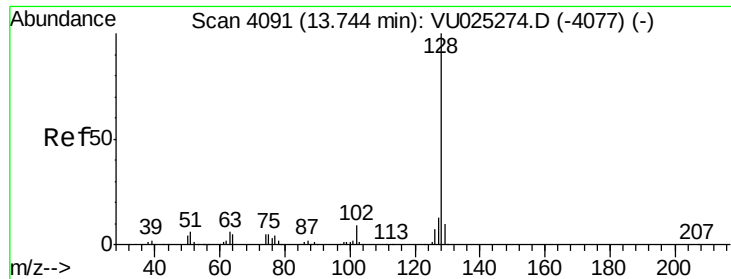
Ion Ratio Lower Upper

146 100

111 3673.9 19.4 58.1#

148 1456.5 31.7 95.1#





#95
Naphthalene
Concen: 2.89 ug/l
RT: 13.75 min Scan# 4094
Delta R.T. 0.01 min
Lab File: VU025369.D
Acq: 13 Jul 2018 04:02

Instrument :
MSVOA_U
ClientSampleId :
HD-02-071018

Tot Ion	Ratio	Lower	Upper
128	100		
127	10.7	10.5	15.7
129	7.5	8.3	12.5#

