

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU063018\
 Data File : VU025098.D
 Acq On : 30 Jun 2018 19:13
 Operator : MD/SY
 Sample : J3759-10
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-0474-180626

Quant Time: Jul 02 05:40:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	207511	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	308411	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	289396	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	150339	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	158605	46.82	ug/l	0.00
Spiked Amount			Recovery	=	93.64%	
35) Dibromofluoromethane	4.89	113	122011	47.67	ug/l	0.00
Spiked Amount			Recovery	=	95.34%	
50) Toluene-d8	7.57	98	448659	48.06	ug/l	0.00
Spiked Amount			Recovery	=	96.12%	
62) 4-Bromofluorobenzene	10.31	95	168488	45.45	ug/l	0.00
Spiked Amount			Recovery	=	90.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	21739	7.944	ug/l	95
5) Bromomethane	1.64	94	327	0.247	ug/l #	64
11) Tert butyl alcohol	2.84	59	1145	1.390	ug/l #	72
12) 1,1-Dichloroethene	2.29	96	1656	0.701	ug/l	85
13) Acrolein	2.18	56	110	0.254	ug/l #	38
16) Acetone	2.32	43	660	0.363	ug/l	100
21) trans-1,2-Dichloroethene	2.99	96	1338	0.514	ug/l	81
24) 1,1-Dichloroethane	3.45	63	3720	0.744	ug/l #	83
27) cis-1,2-Dichloroethene	4.23	96	245583	82.083	ug/l	89
31) Cyclohexane	4.99	56	4388	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	15178	4.188	ug/l #	52
38) Carbon Tetrachloride	4.99	117	20697	5.193	ug/l #	16
42) 1,2-Dichloroethane	5.42	62	2981	0.758	ug/l #	77
51) 4-Methyl-2-Pentanone	7.57	43	2271	0.529	ug/l #	1
65) Chlorobenzene	9.12	112	13725	1.856	ug/l	96
76) 1,2,3-Trichloropropane	10.31	75	87075	26.307	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	87075	60.886	ug/l #	100
88) 1,4-Dichlorobenzene	11.51	146	1463	0.269	ug/l #	61
91) 1,2-Dichlorobenzene	11.89	146	2524	0.467	ug/l	95
95) Naphthalene	13.79	128	110	0.689	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

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MSVOA_U

ClientSampleId :

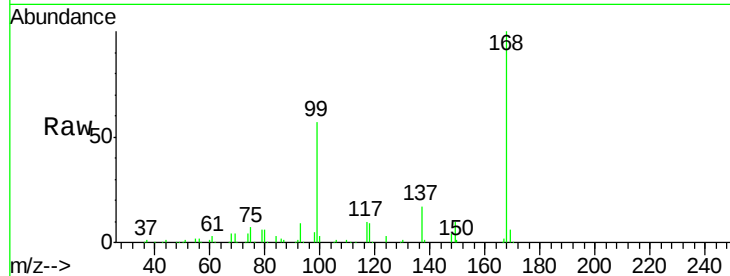
DUP-0474-180626

Tgt Ion:168 Resp: 207511

Ion Ratio Lower Upper

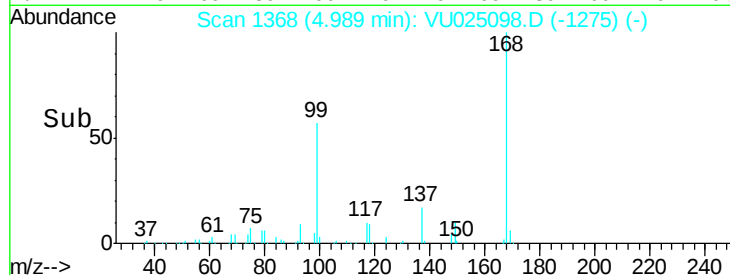
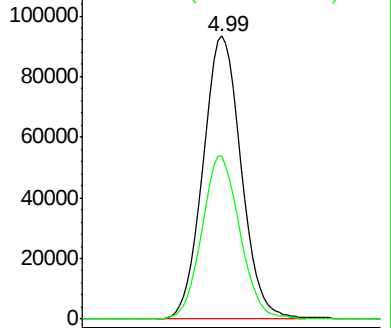
168 100

99 57.4 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#4

Vinyl Chloride

Concen: 7.944 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU025098.D

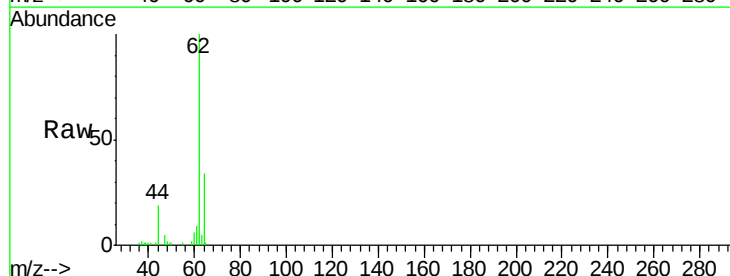
Acq: 30 Jun 2018 19:13

Tgt Ion: 62 Resp: 21739

Ion Ratio Lower Upper

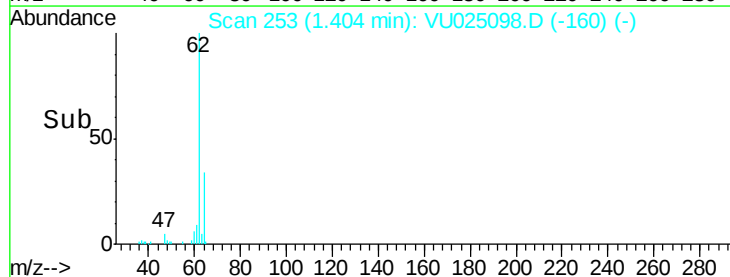
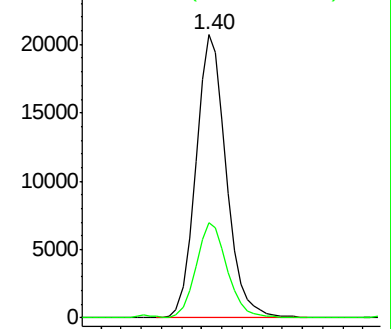
62 100

64 33.6 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0

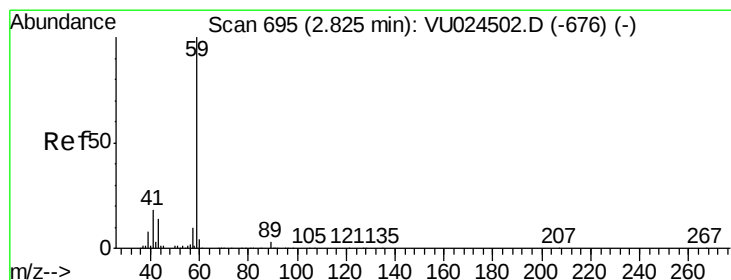
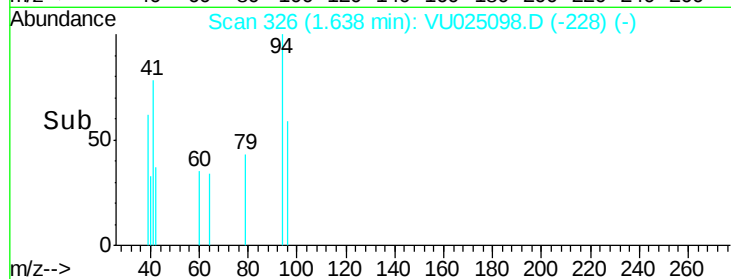
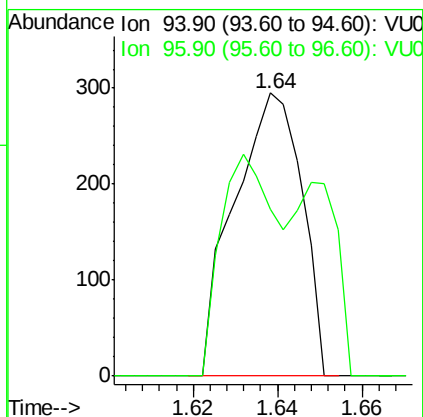
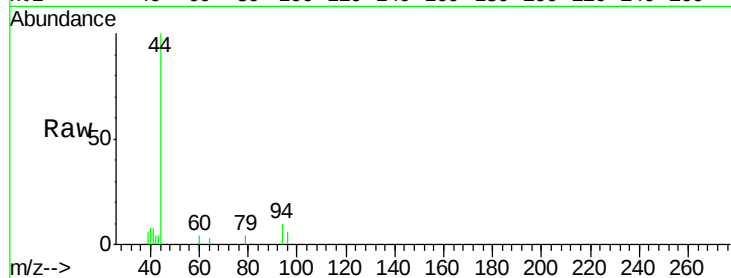




#5
 Bromomethane
 Concen: 0.247 ug/l
 RT: 1.64 min Scan# 326
 Delta R.T. 0.02 min
 Lab File: VU025098.D
 Acq: 30 Jun 2018 19:13

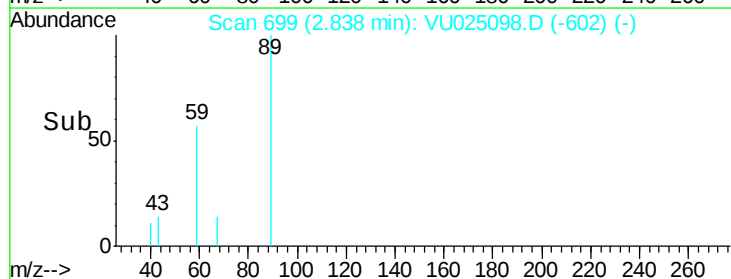
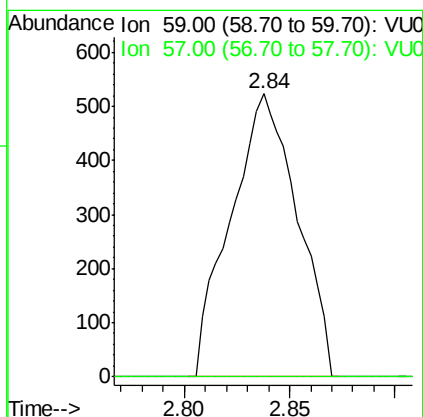
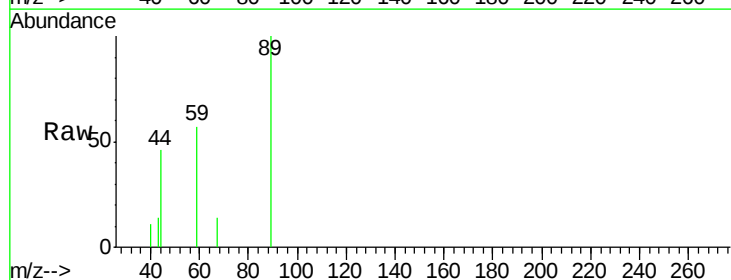
Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-0474-180626

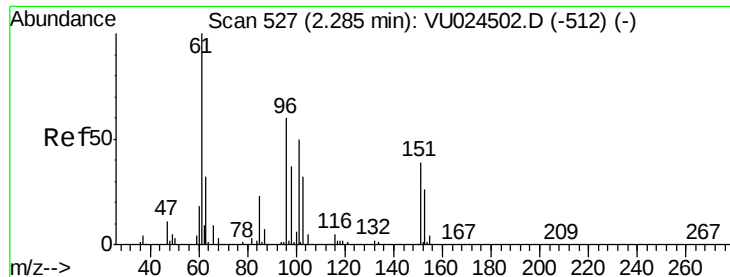
Tgt Ion: 94 Resp: 327
 Ion Ratio Lower Upper
 94 100
 96 59.0 74.5 111.7#



#11
 Tert butyl alcohol
 Concen: 1.390 ug/l
 RT: 2.84 min Scan# 699
 Delta R.T. 0.01 min
 Lab File: VU025098.D
 Acq: 30 Jun 2018 19:13

Tgt Ion: 59 Resp: 1145
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#





#12

1,1-Dichloroethene

Concen: 0.701 ug/l

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU025098.D

Acq: 30 Jun 2018 19:13

Instrument :

MSVOA_U

ClientSampleId :

DUP-0474-180626

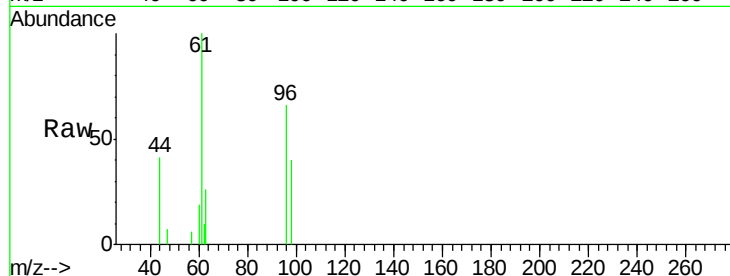
Tgt Ion: 96 Resp: 1656

Ion Ratio Lower Upper

96 100

61 150.7 141.7 212.5

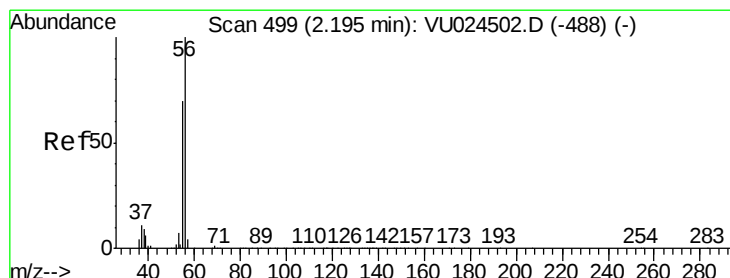
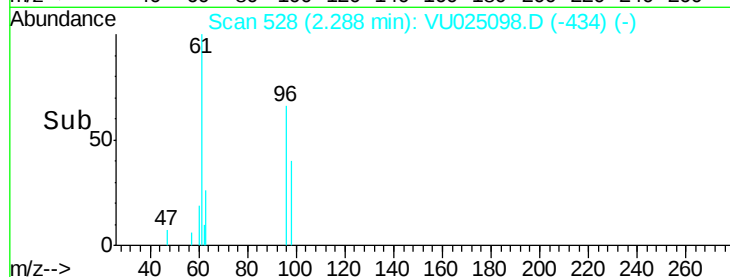
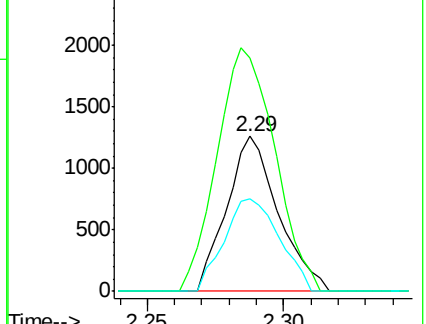
98 59.8 51.6 77.4



Abundance Ion 95.90 (95.60 to 96.60): VU025098.D (-434) (-)

Ion 60.90 (60.60 to 61.60): VU025098.D (-434) (-)

Ion 97.90 (97.60 to 98.60): VU025098.D (-434) (-)



#13

Acrolein

Concen: 0.254 ug/l

RT: 2.18 min Scan# 495

Delta R.T. -0.01 min

Lab File: VU025098.D

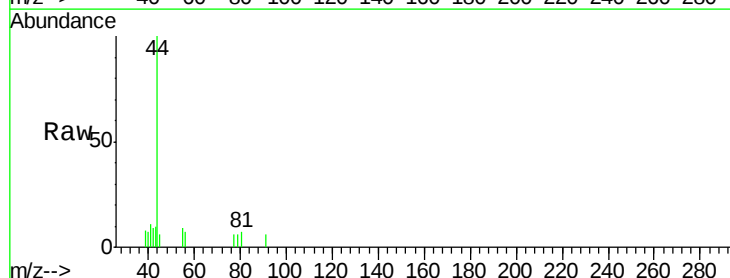
Acq: 30 Jun 2018 19:13

Tgt Ion: 56 Resp: 110

Ion Ratio Lower Upper

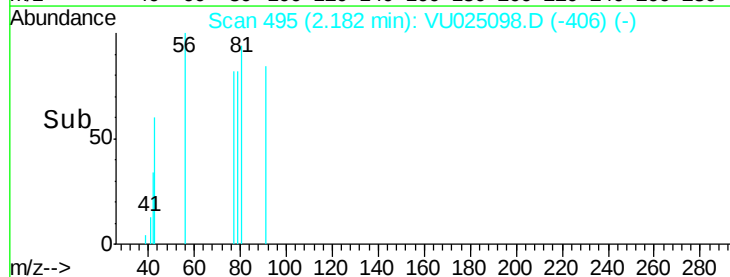
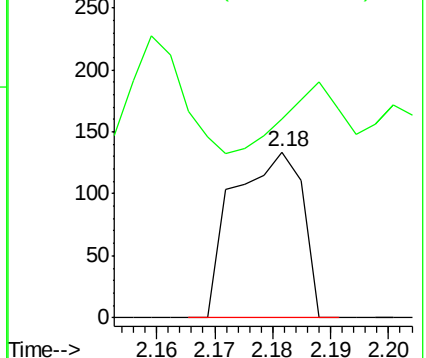
56 100

55 20.9 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VU025098.D (-406) (-)

Ion 55.00 (54.70 to 55.70): VU025098.D (-406) (-)





#16

Acetone

Concen: 0.363 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU025098.D

Acq: 30 Jun 2018 19:13

Instrument :

MSVOA_U

ClientSampleId :

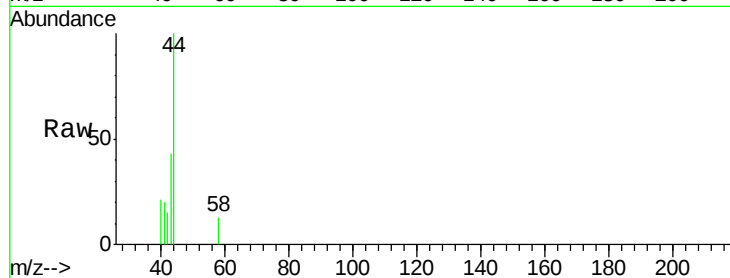
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Tgt Ion: 43 Resp: 660

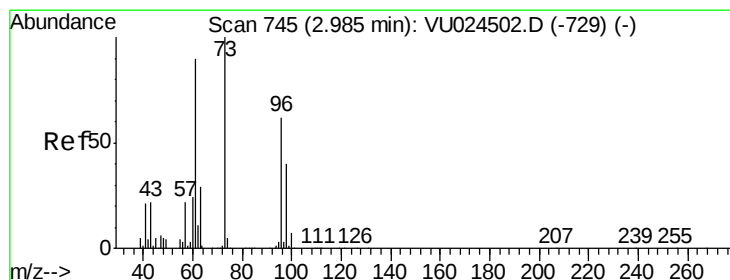
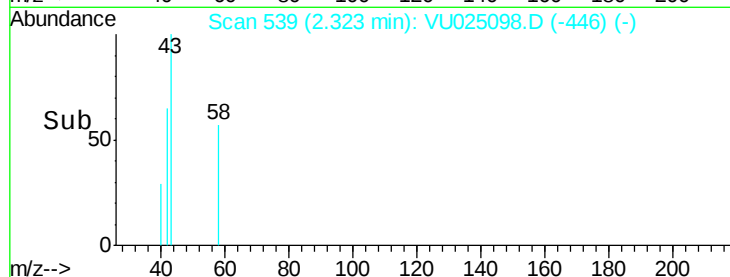
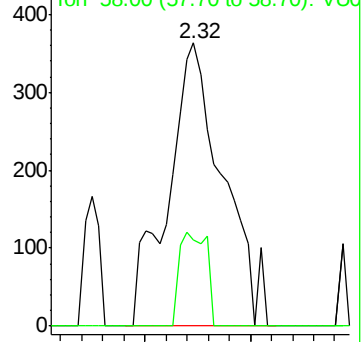
Ion Ratio Lower Upper

43 100

58 30.6 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU024502.D (-521) (-)



#21

trans-1,2-Dichloroethene

Concen: 0.514 ug/l

RT: 2.99 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU025098.D

Acq: 30 Jun 2018 19:13

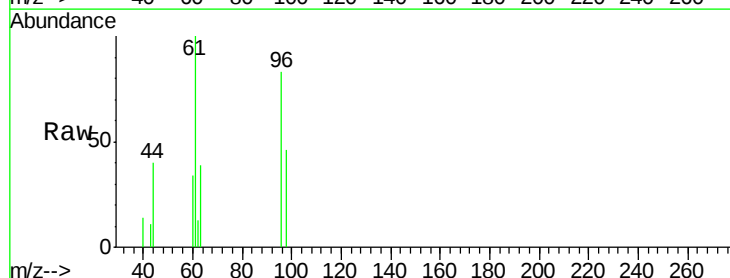
Tgt Ion: 96 Resp: 1338

Ion Ratio Lower Upper

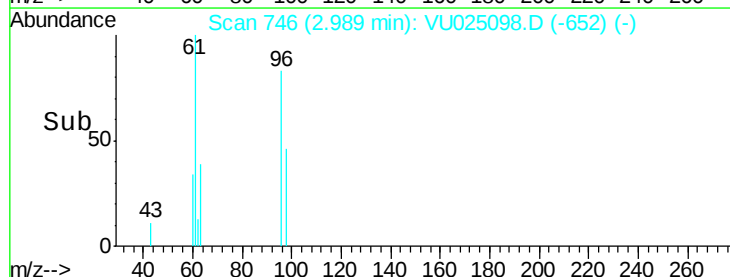
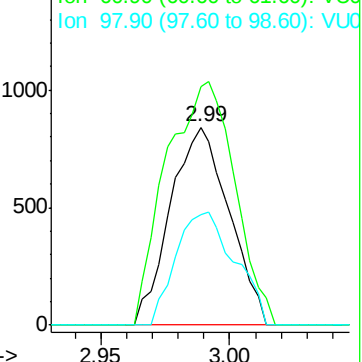
96 100

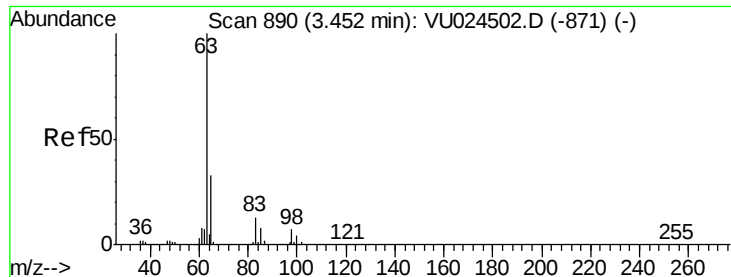
61 120.4 119.4 179.0

98 55.9 51.1 76.7



Abundance Ion 95.90 (95.60 to 96.60): VU024502.D (-729) (-)





#24

1,1-Dichloroethane

Concen: 0.744 ug/l

RT: 3.45 min Scan# 890

Delta R.T. -0.00 min

Lab File: VU025098.D

Acq: 30 Jun 2018 19:13

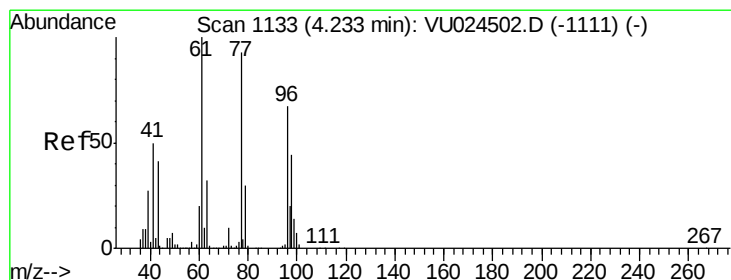
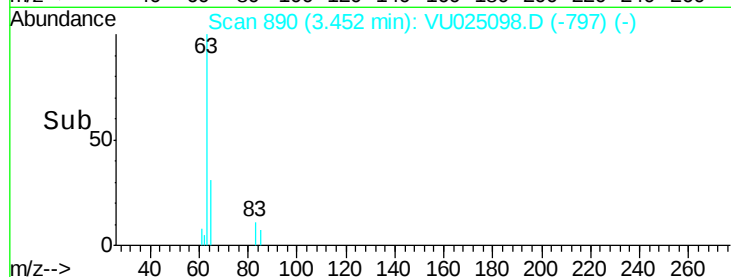
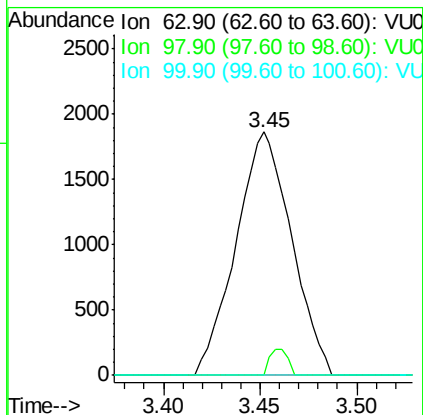
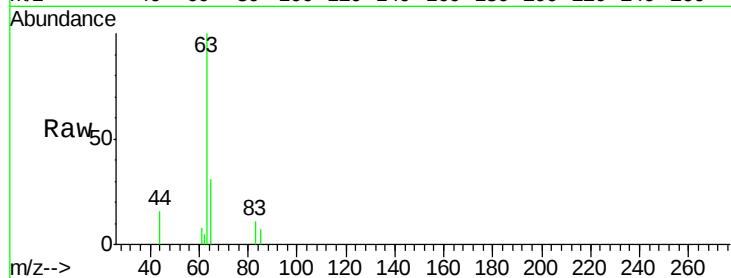
Instrument :

MSVOA_U

ClientSampleId :

DUP-0474-180626

Tgt Ion:	63	Resp:	3720
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.5	10.4#
100	0.0	1.8	5.5#



#27

cis-1,2-Dichloroethene

Concen: 82.083 ug/l

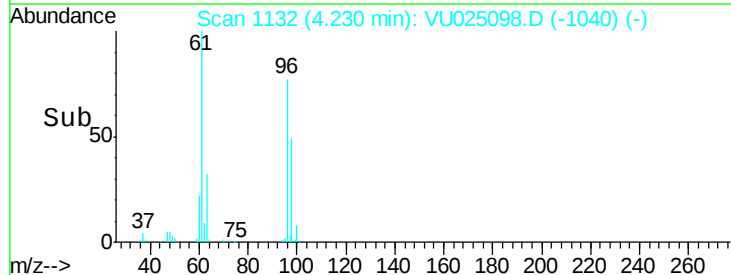
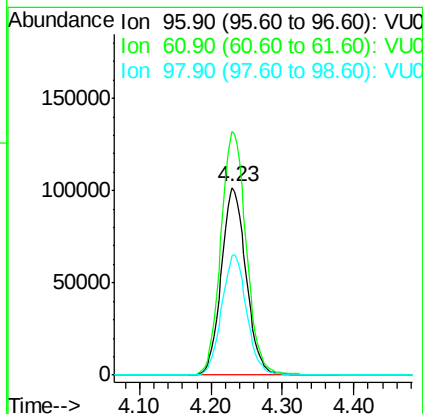
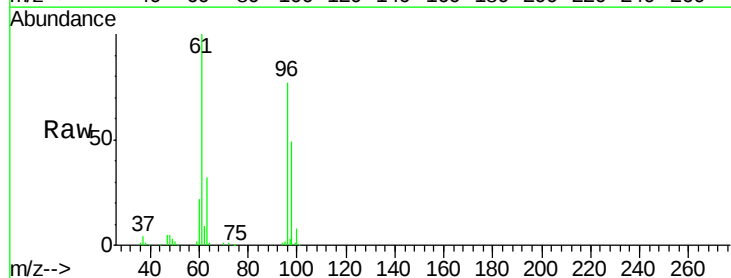
RT: 4.23 min Scan# 1132

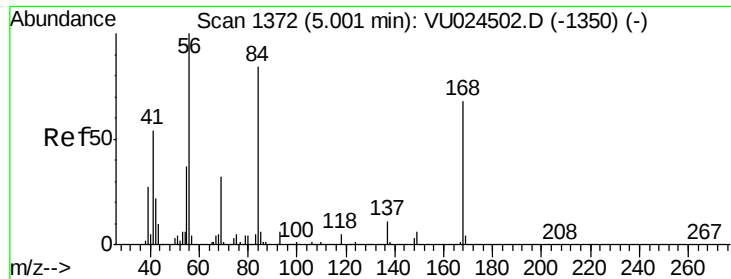
Delta R.T. -0.00 min

Lab File: VU025098.D

Acq: 30 Jun 2018 19:13

Tgt Ion:	96	Resp:	245583
Ion	Ratio	Lower	Upper
96	100		
61	133.0	0.0	306.6
98	64.7	0.0	128.8

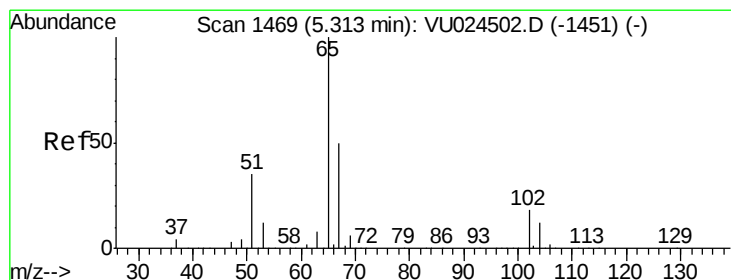
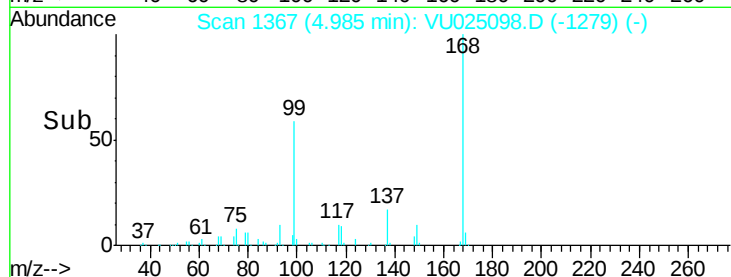
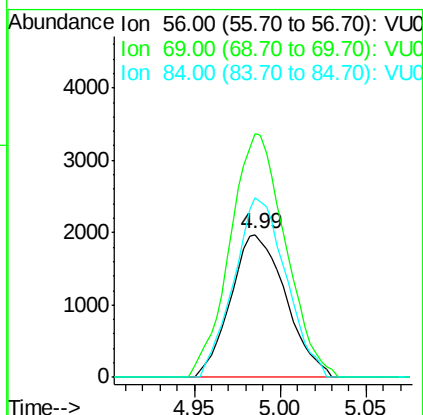
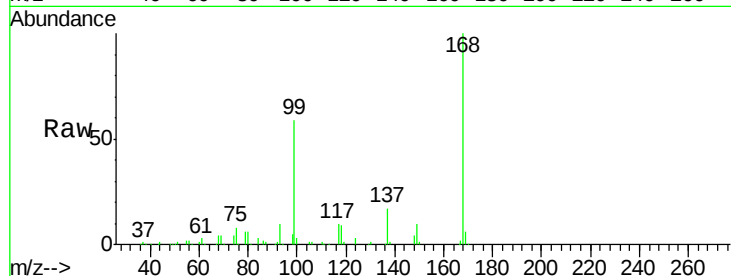




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1367
Delta R.T. -0.02 min
Lab File: VU025098.D
Acq: 30 Jun 2018 19:13

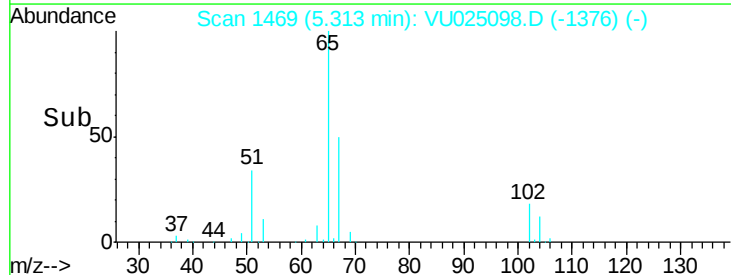
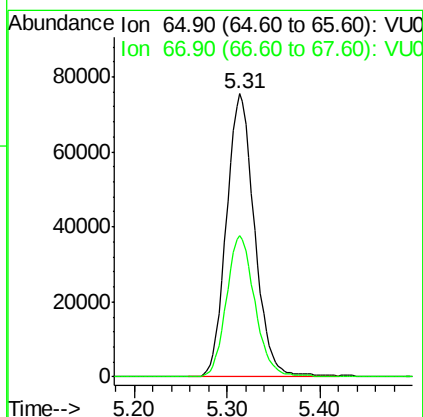
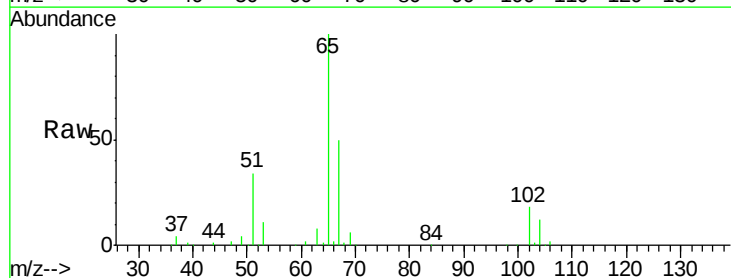
Instrument :
MSVOA_U
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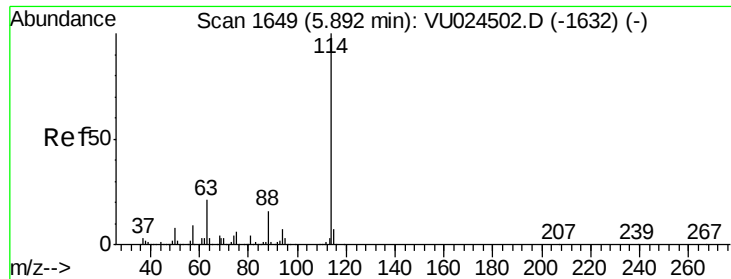
Tgt Ion: 56 Resp: 4388
Ion Ratio Lower Upper
56 100
69 170.2 24.8 37.2#
84 125.3 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 46.818 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VU025098.D
Acq: 30 Jun 2018 19:13

Tgt Ion: 65 Resp: 158605
Ion Ratio Lower Upper
65 100
67 50.5 0.0 107.0

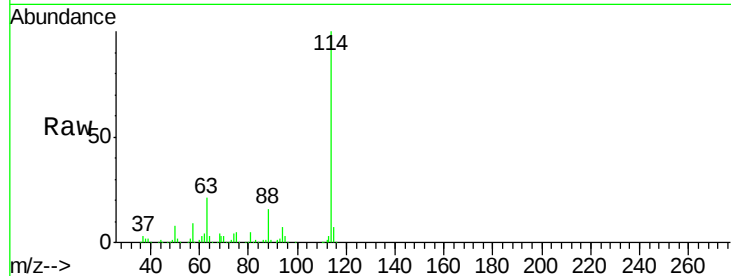




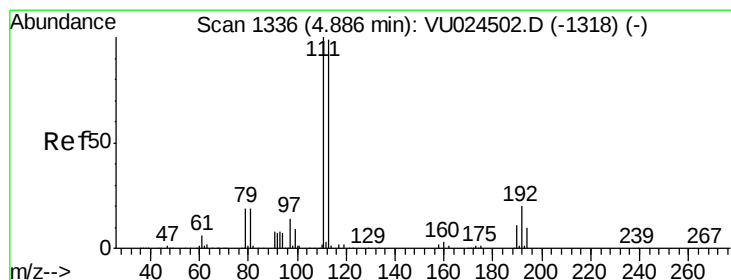
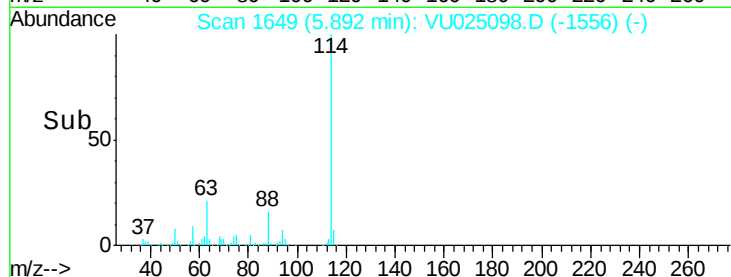
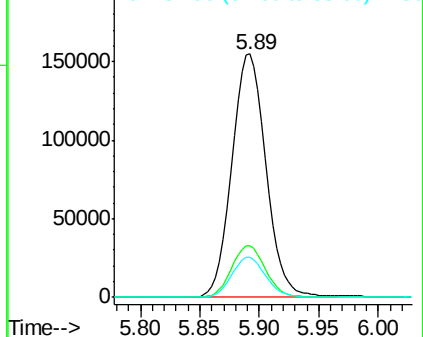
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU025098.D
 Acq: 30 Jun 2018 19:13

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-0474-180626

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	45.4
88	16.3	0.0	31.0

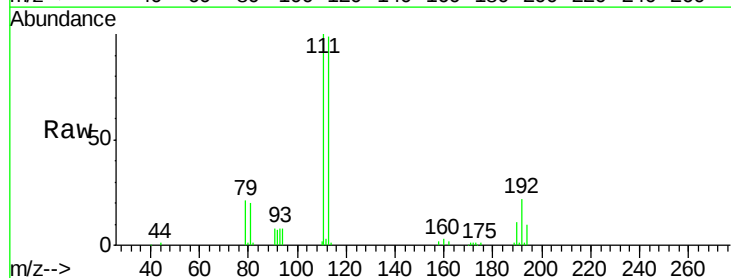


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

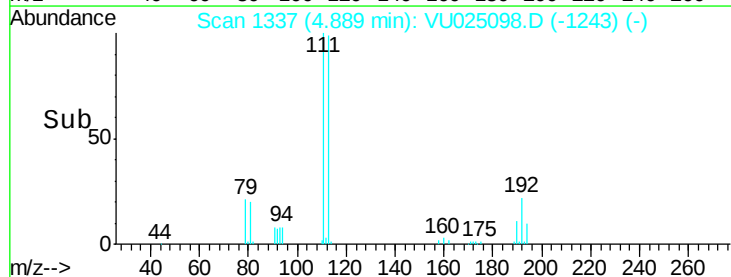
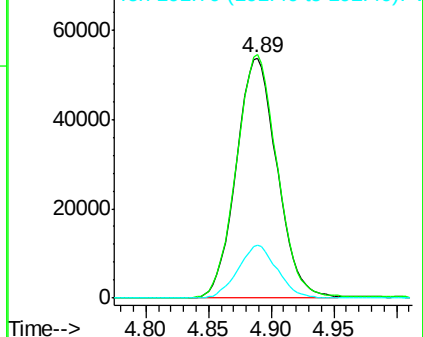


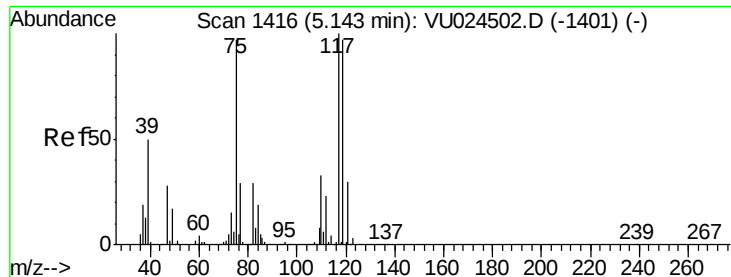
#35
 Dibromofluoromethane
 Concen: 47.668 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025098.D
 Acq: 30 Jun 2018 19:13

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.2	123.4
192	21.2	16.2	24.4



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

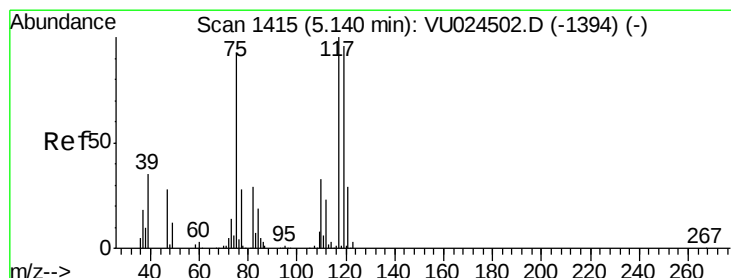
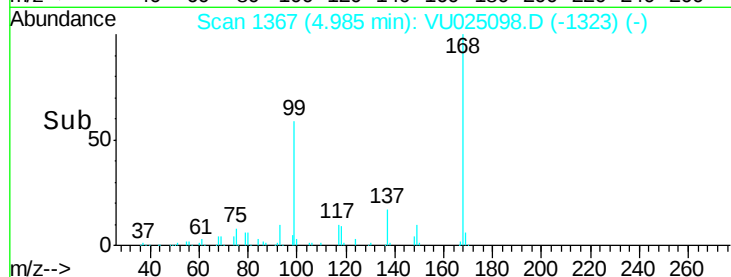
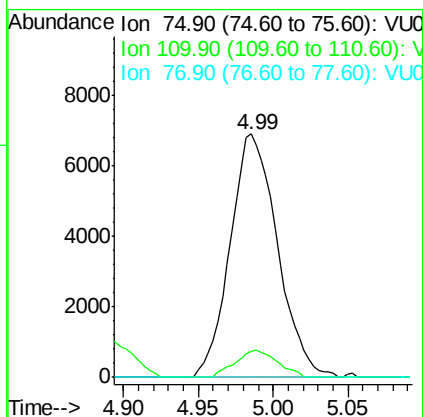
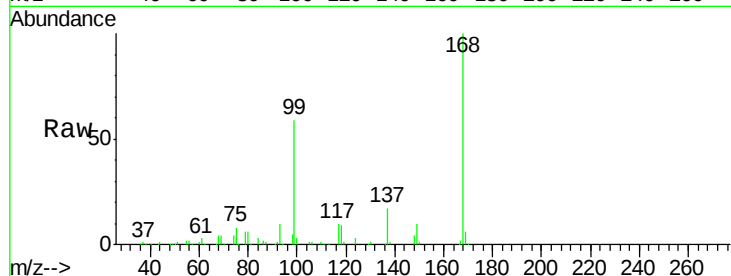




#36
 1,1-Dichloropropene
 Concen: 4.188 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU025098.D
 Acq: 30 Jun 2018 19:13

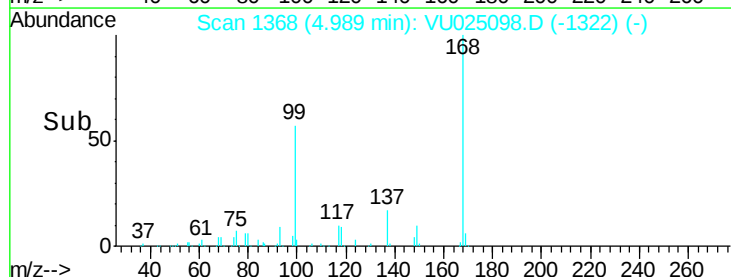
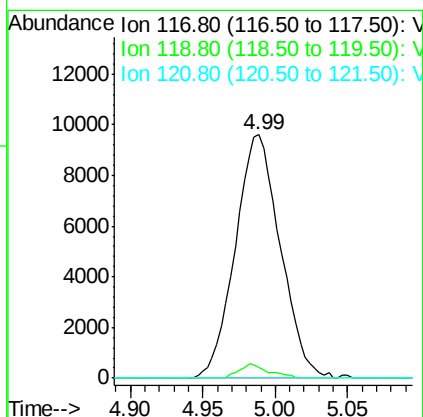
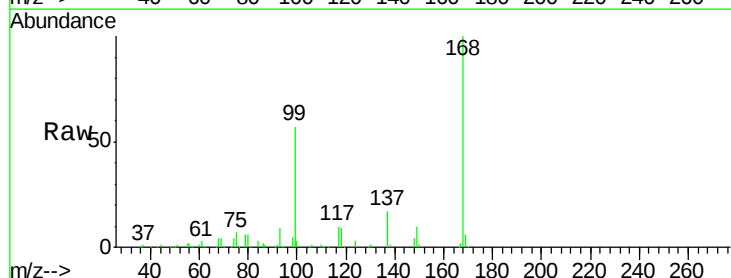
Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-0474-180626

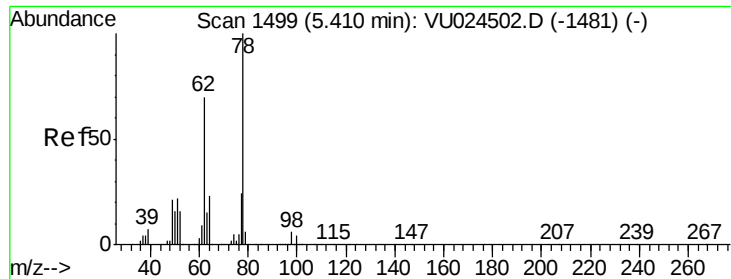
Tgt Ion: 75 Resp: 15178
 Ion Ratio Lower Upper
 75 100
 110 10.0 17.0 50.9#
 77 0.0 24.2 36.4#



#38
 Carbon Tetrachloride
 Concen: 5.193 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025098.D
 Acq: 30 Jun 2018 19:13

Tgt Ion: 117 Resp: 20697
 Ion Ratio Lower Upper
 117 100
 119 4.3 76.1 114.1#
 121 0.0 23.7 35.5#





#42

1,2-Dichloroethane

Concen: 0.758 ug/l

RT: 5.42 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VU025098.D

Acq: 30 Jun 2018 19:13

Instrument :

MSVOA_U

ClientSampleId :

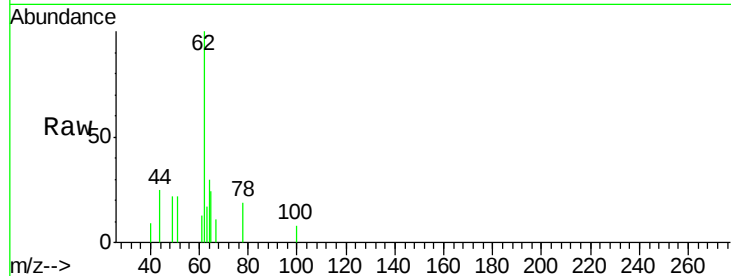
DUP-0474-180626

Tgt Ion: 62 Resp: 2981

Ion Ratio Lower Upper

62 100

98 0.0 0.0 16.6



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

5.42

1500

1000

500

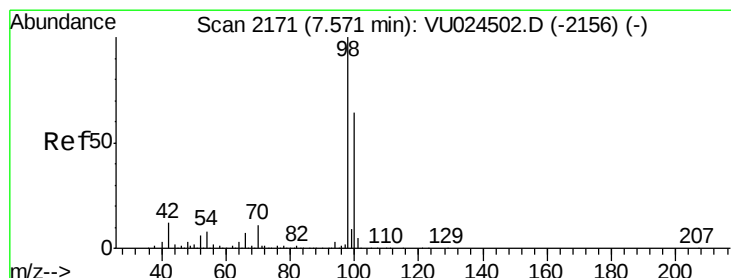
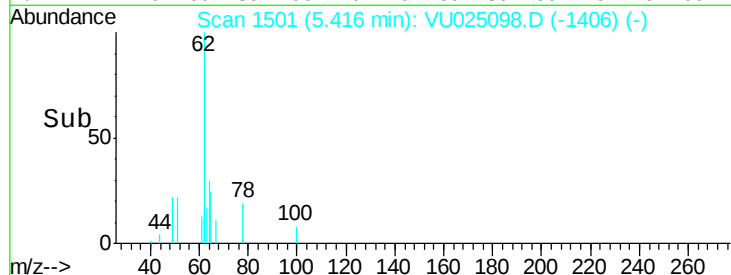
0

Time-->

5.35

5.40

5.45



#50

Toluene-d8

Concen: 48.055 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU025098.D

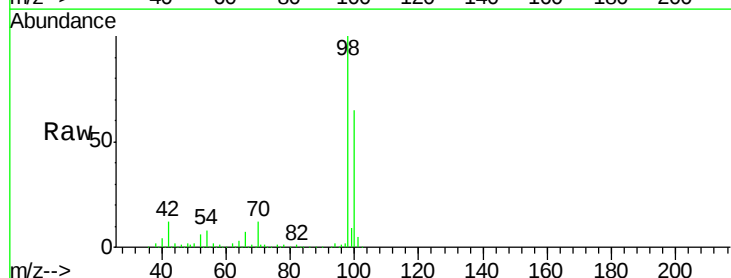
Acq: 30 Jun 2018 19:13

Tgt Ion: 98 Resp: 448659

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

7.57

300000

250000

200000

150000

100000

50000

0

Time-->

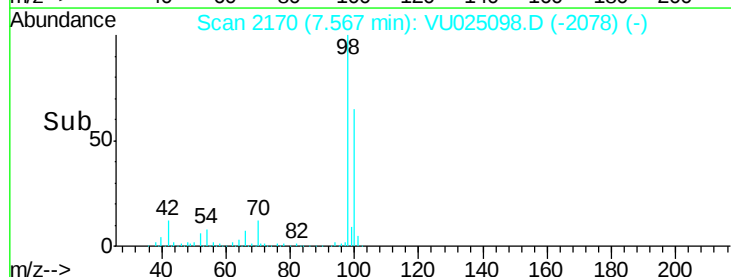
7.50

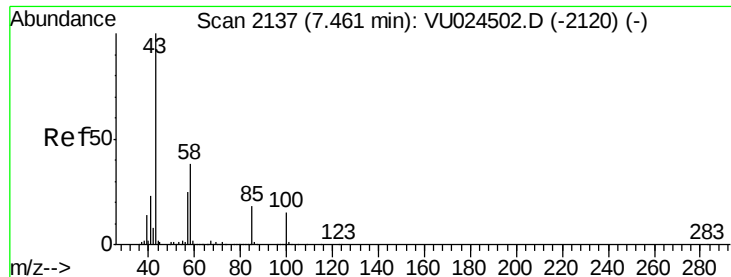
7.55

7.60

7.65

7.70





#51

4-Methyl-2-Pentanone

Concen: 0.529 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.11 min

Lab File: VU025098.D

Acq: 30 Jun 2018 19:13

Instrument :

MSVOA_U

ClientSampleId :

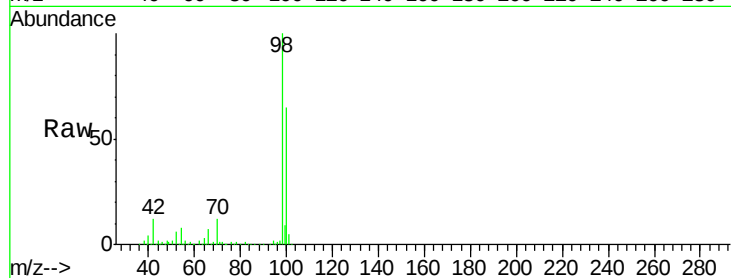
DUP-0474-180626

Tgt Ion: 43 Resp: 2271

Ion Ratio Lower Upper

43 100

58 165.8 30.0 45.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2500

2000

1500

1000

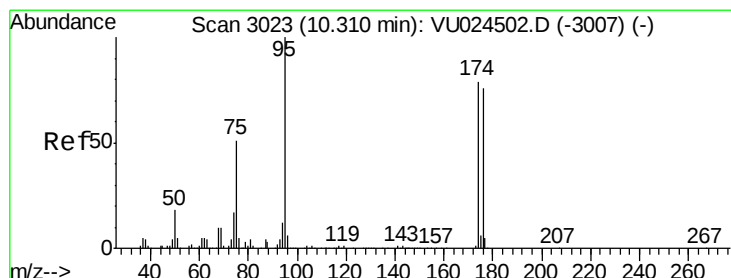
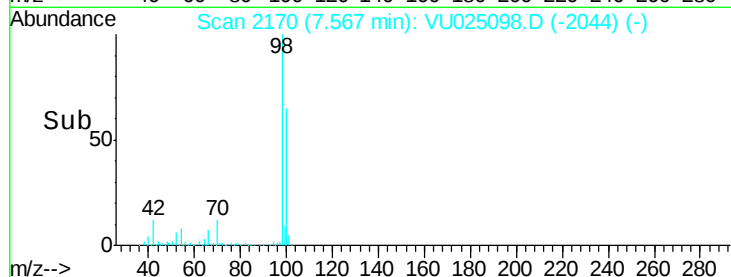
500

0

7.55

7.60

Time-->



#62

4-Bromofluorobenzene

Concen: 45.453 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU025098.D

Acq: 30 Jun 2018 19:13

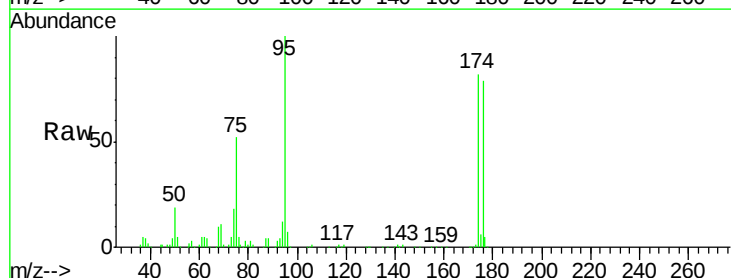
Tgt Ion: 95 Resp: 168488

Ion Ratio Lower Upper

95 100

174 82.8 0.0 165.8

176 79.7 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

100000

50000

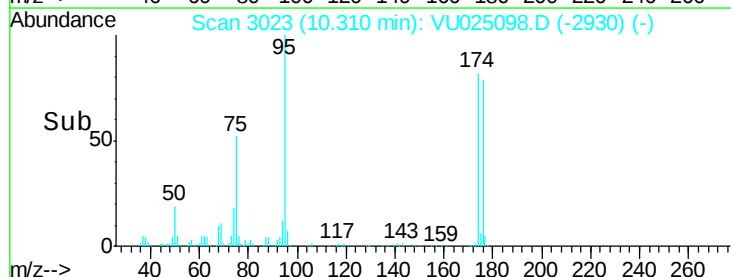
0

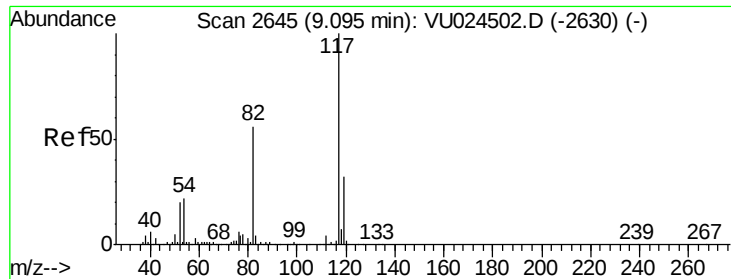
10.20

10.30

10.40

Time-->

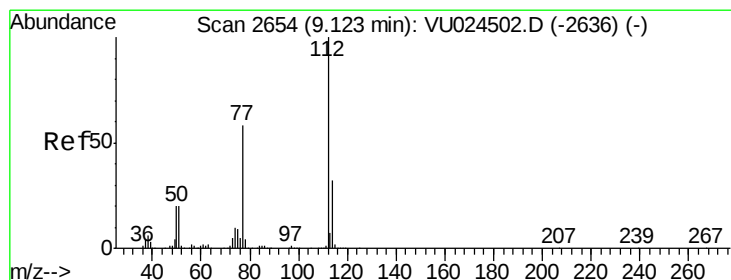
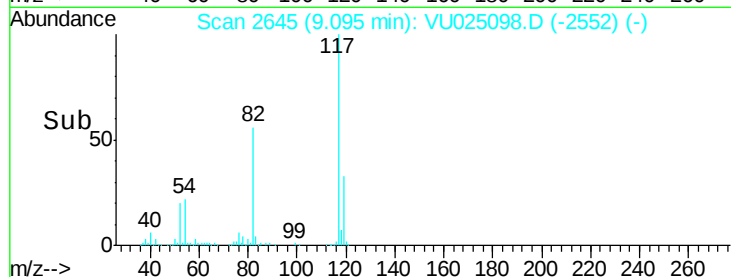
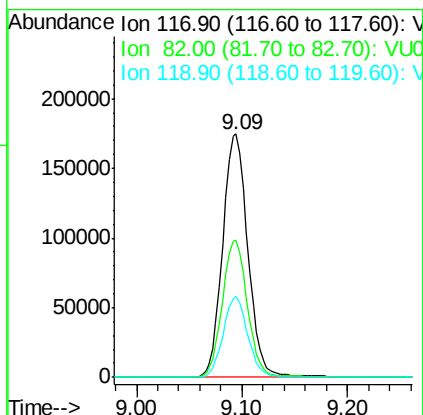
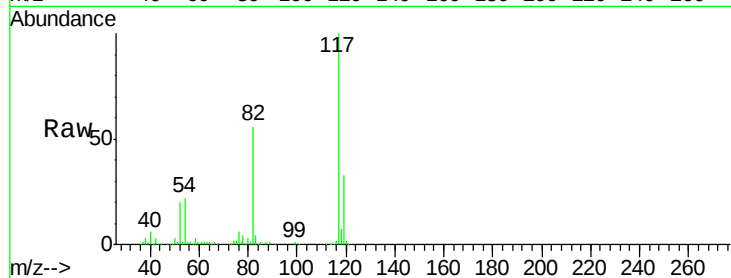




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU025098.D
Acq: 30 Jun 2018 19:13

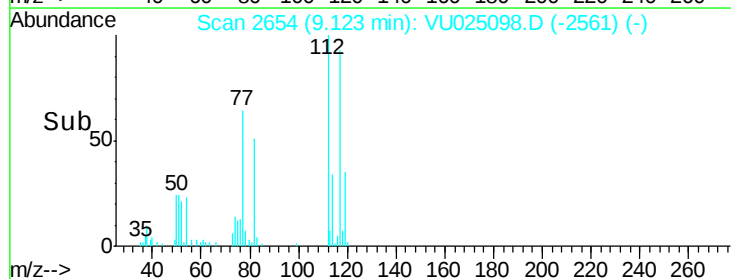
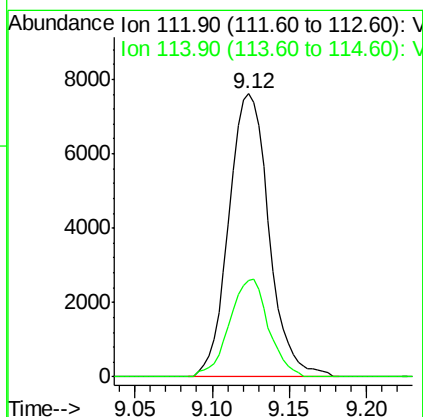
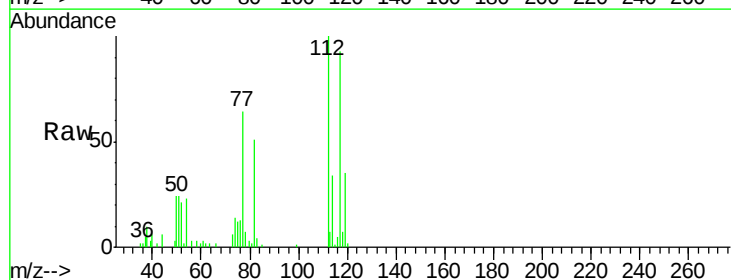
Instrument :
MSVOA_U
ClientSampleId :
DUP-0474-180626

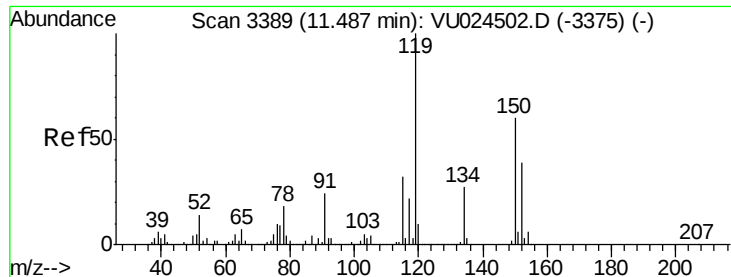
Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.3	44.3	66.5
119	33.1	25.4	38.2



#65
Chlorobenzene
Concen: 1.856 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. -0.00 min
Lab File: VU025098.D
Acq: 30 Jun 2018 19:13

Tgt Ion	Ratio	Lower	Upper
112	100		
114	34.2	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU025098.D

Acq: 30 Jun 2018 19:13

Instrument :

MSVOA_U

ClientSampleId :

DUP-0474-180626

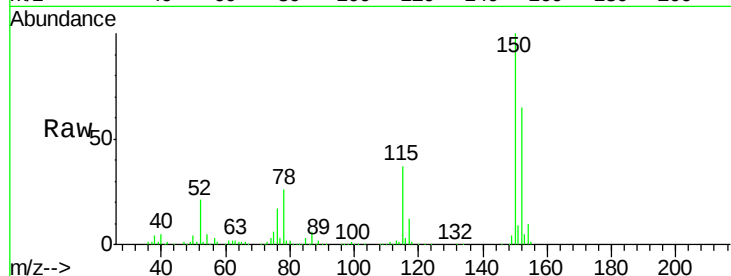
Tgt Ion:152 Resp: 150339

Ion Ratio Lower Upper

152 100

115 58.3 43.0 129.0

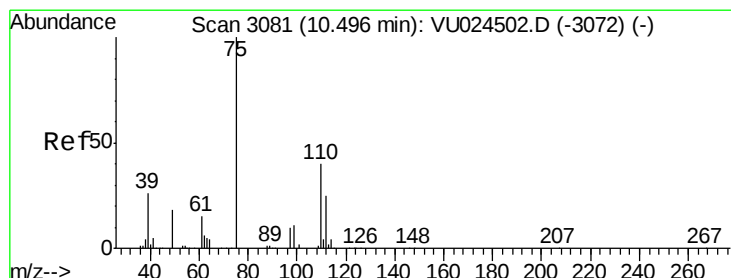
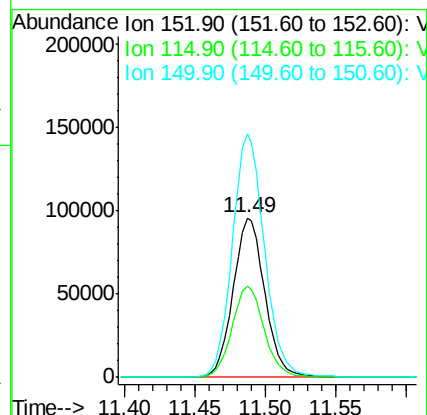
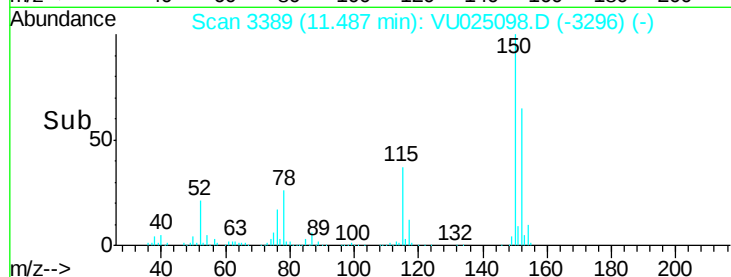
150 155.1 0.0 354.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.307 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025098.D

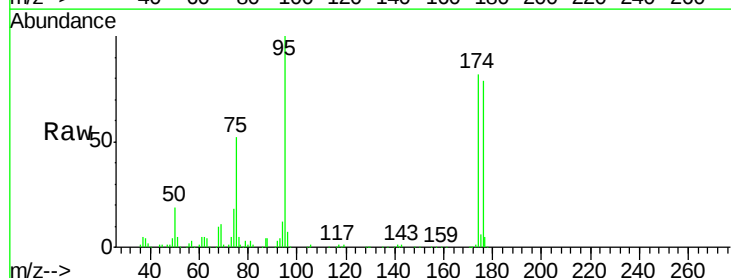
Acq: 30 Jun 2018 19:13

Tgt Ion: 75 Resp: 87075

Ion Ratio Lower Upper

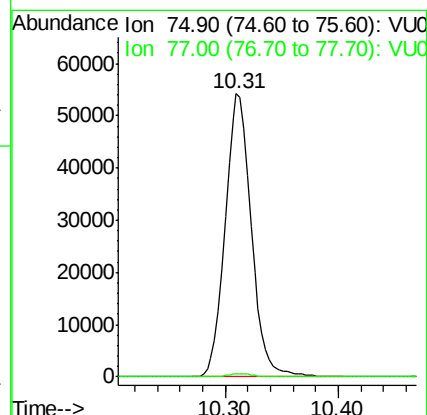
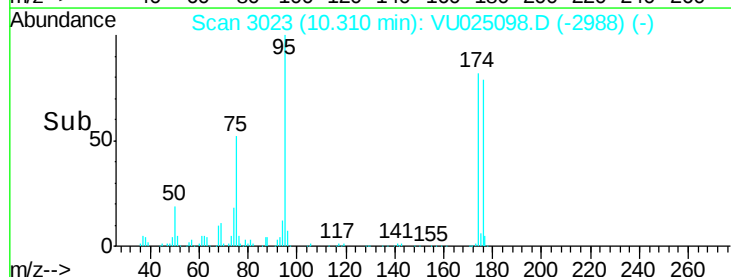
75 100

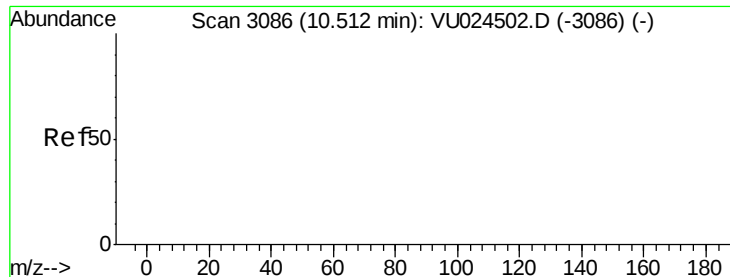
77 1.1 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81

trans-1,4-Dichloro-2-butene

Concen: 60.886 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025098.D

Acq: 30 Jun 2018 19:13

Instrument :

MSVOA_U

ClientSampleId :

DUP-0474-180626

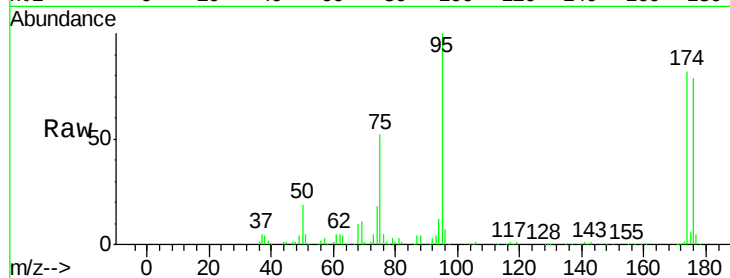
Tgt Ion: 75 Resp: 87075

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

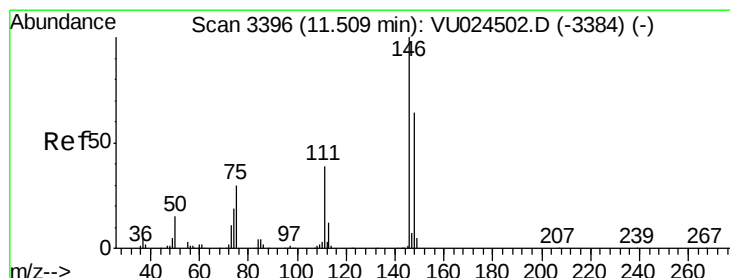
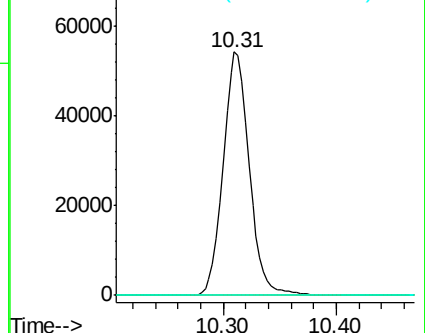
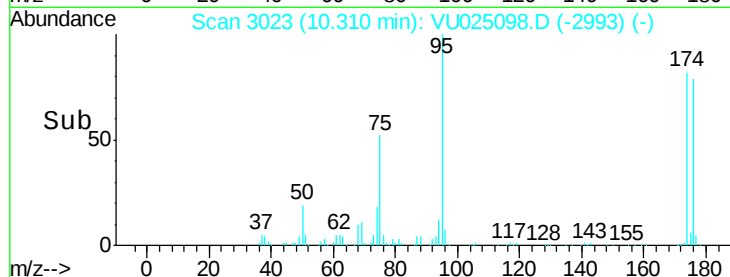
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU025098.D (-2993) (-)

Ion 53.00 (52.70 to 53.70): VU025098.D (-2993) (-)

Ion 88.90 (88.60 to 89.60): VU025098.D (-2993) (-)



#88

1,4-Dichlorobenzene

Concen: 0.269 ug/l

RT: 11.51 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VU025098.D

Acq: 30 Jun 2018 19:13

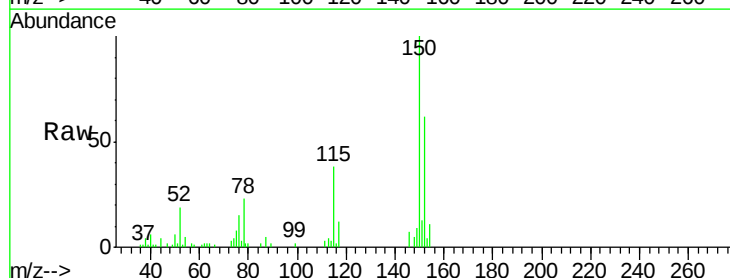
Tgt Ion: 146 Resp: 1463

Ion Ratio Lower Upper

146 100

111 0.0 19.5 58.5#

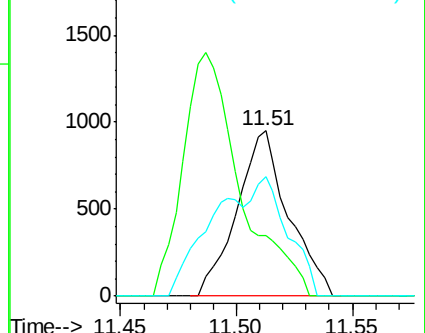
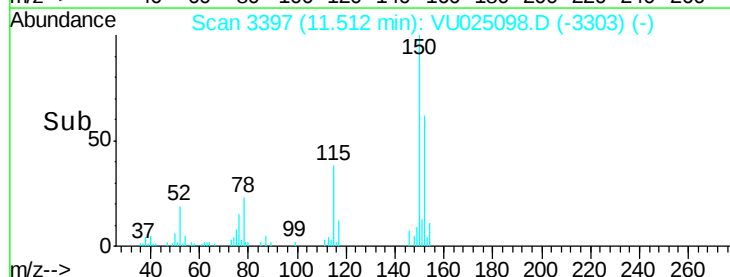
148 45.7 32.4 97.0

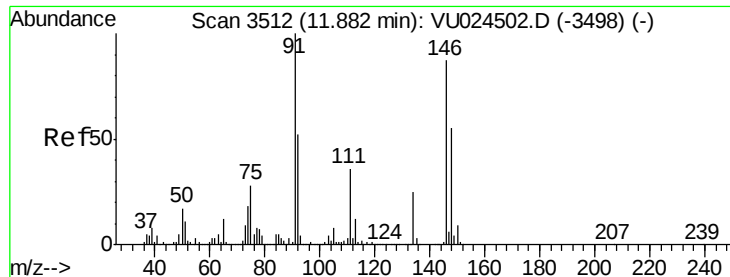


Abundance Ion 145.90 (145.60 to 146.60): VU025098.D (-3303) (-)

Ion 110.90 (110.60 to 111.60): VU025098.D (-3303) (-)

Ion 147.90 (147.60 to 148.60): VU025098.D (-3303) (-)





#91

1,2-Dichlorobenzene

Concen: 0.467 ug/l

RT: 11.89 min Scan# 3514

Delta R.T. 0.01 min

Lab File: VU025098.D

Acq: 30 Jun 2018 19:13

Instrument :

MSVOA_U

ClientSampleId :

DUP-0474-180626

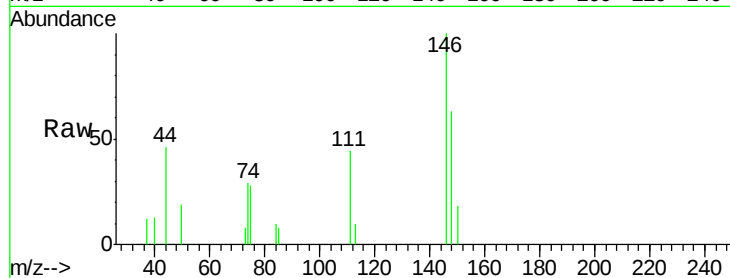
Tgt Ion:146 Resp: 2524

Ion Ratio Lower Upper

146 100

111 40.1 20.5 61.6

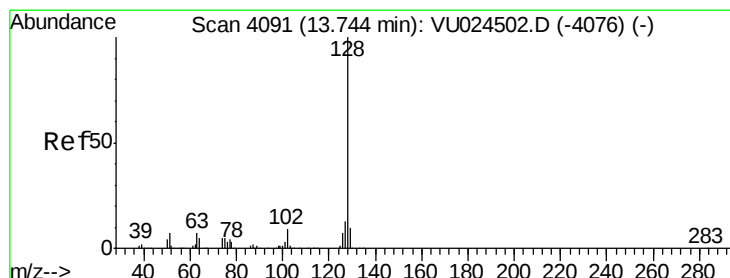
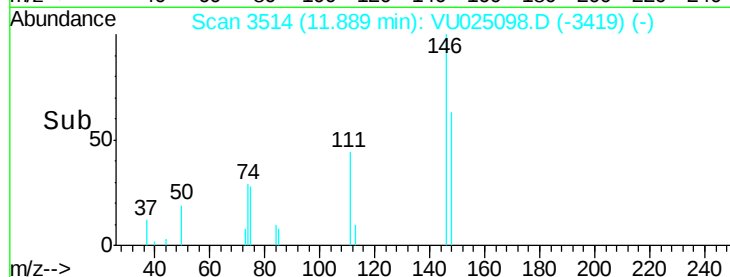
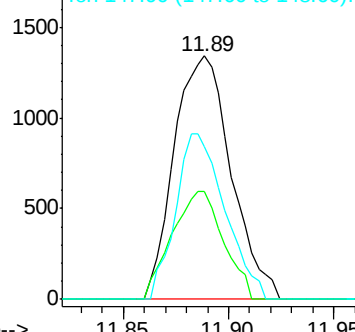
148 58.6 31.9 95.7



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: 0.689 ug/l

RT: 13.79 min Scan# 4105

Delta R.T. 0.05 min

Lab File: VU025098.D

Acq: 30 Jun 2018 19:13

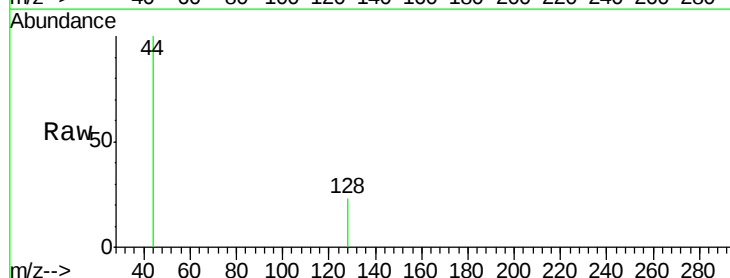
Tgt Ion:128 Resp: 110

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

