

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071018\
 Data File : VU025294.D
 Acq On : 10 Jul 2018 17:17
 Operator : MD/SY
 Sample : J3898-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SS037MW076-180703

Quant Time: Jul 11 02:03:29 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	198632	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	298905	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	279518	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	142267	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	153536	49.75	ug/l	0.00
Spiked Amount			Recovery	=	99.50%	
35) Dibromofluoromethane	4.89	113	118080	46.83	ug/l	0.00
Spiked Amount			Recovery	=	93.66%	
50) Toluene-d8	7.57	98	432405	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
62) 4-Bromofluorobenzene	10.31	95	157912	45.43	ug/l	0.00
Spiked Amount			Recovery	=	90.86%	

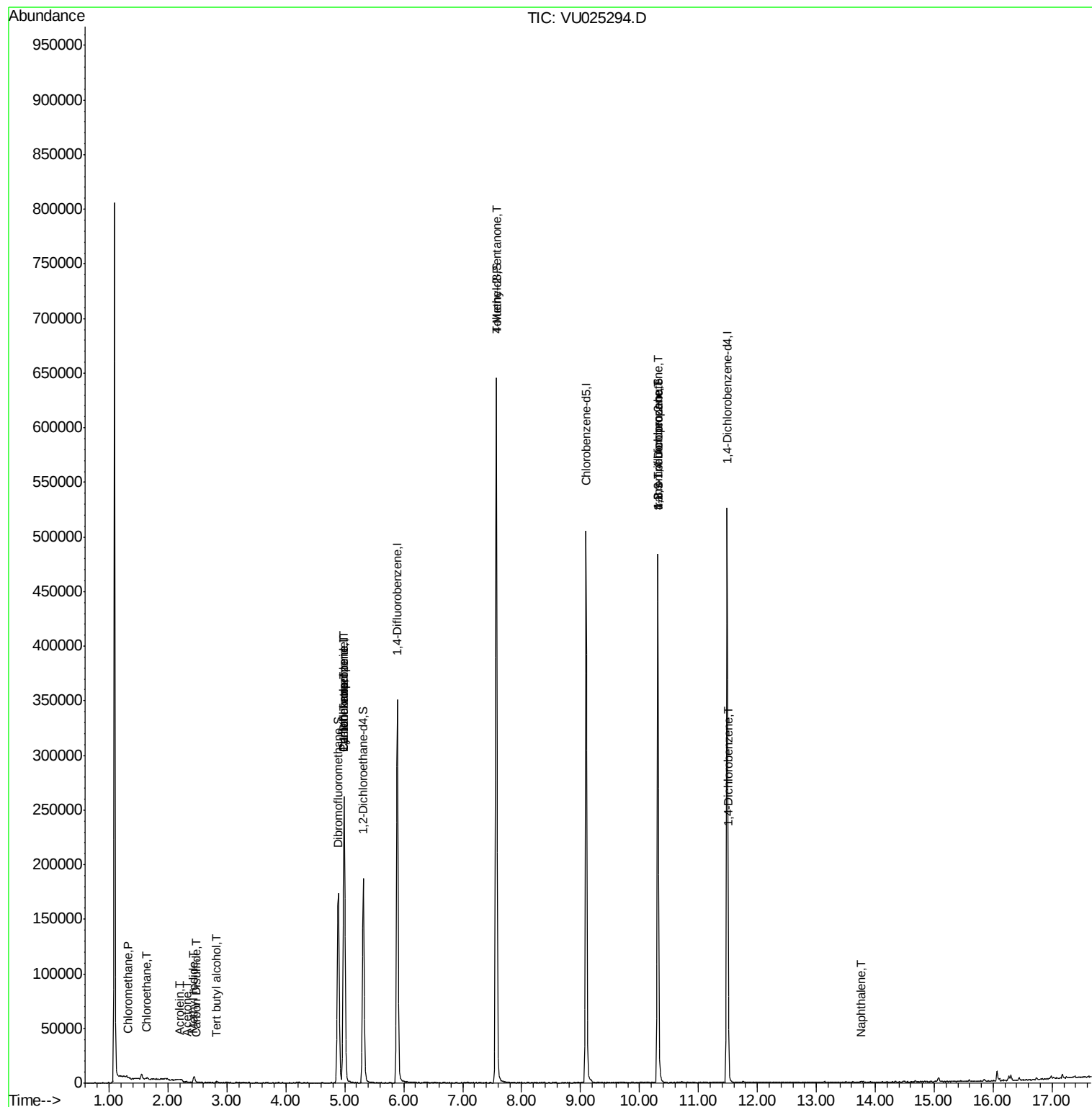
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	714	0.91	ug/l #	86
5) Bromomethane	1.64	94	429	Below Cal		96
6) Chloroethane	1.64	64	74	0.34	ug/l #	43
10) Methyl Iodide	2.42	142	272	7.80	ug/l #	47
11) Tert butyl alcohol	2.82	59	1376	2.04	ug/l #	73
13) Acrolein	2.19	56	108	0.24	ug/l #	1
16) Acetone	2.32	43	983	5.48	ug/l #	75
17) Carbon Disulfide	2.48	76	306	1.98	ug/l #	74
31) Cyclohexane	4.99	56	3944	1.74	ug/l #	14
36) 1,1-Dichloropropene	4.99	75	14869	4.47	ug/l #	50
38) Carbon Tetrachloride	4.99	117	19466	5.44	ug/l #	17
51) 4-Methyl-2-Pentanone	7.57	43	1995	0.52	ug/l #	1
76) 1,2,3-Trichloropropane	10.31	75	81349	28.09	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	81349	71.77	ug/l #	100
88) 1,4-Dichlorobenzene	11.51	146	41	1.50	ug/l #	25
95) Naphthalene	13.75	128	169	2.43	ug/l #	64

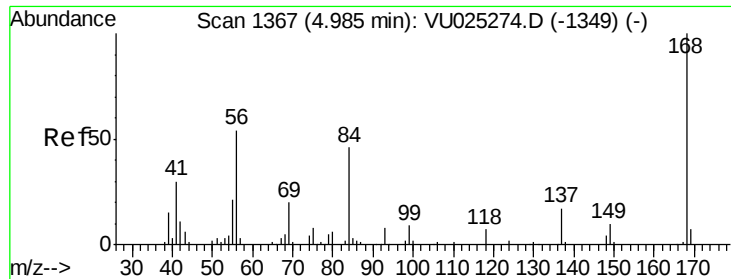
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025294.D

Acq: 10 Jul 2018 17:17

Instrument :

MSVOA_U

ClientSampleId :

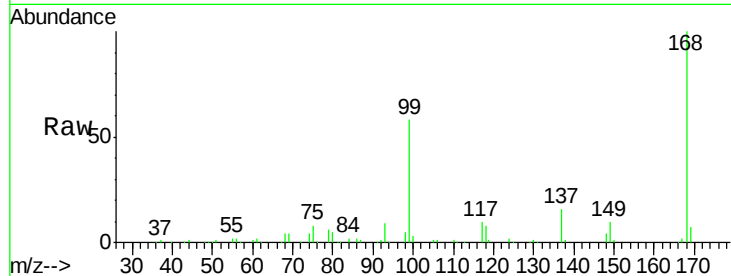
SS037MW076-180703

Tot Ion:168 Resp: 198632

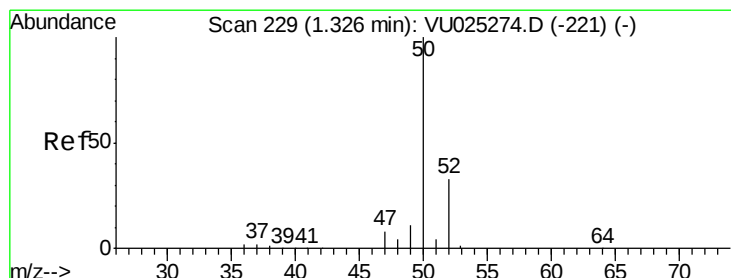
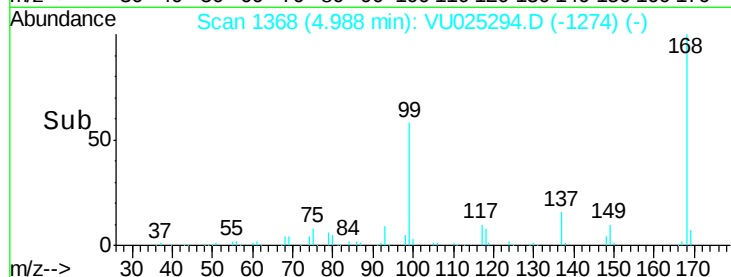
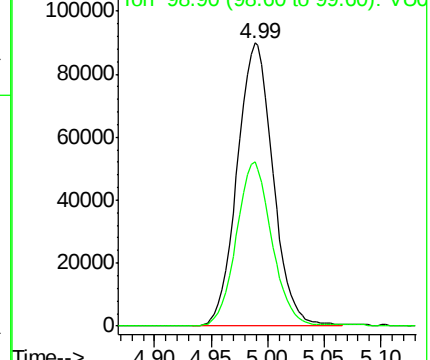
Ion Ratio Lower Upper

168 100

99 57.9 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025294.D (-1274) (-)



#3

Chloromethane

Concen: 0.91 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025294.D

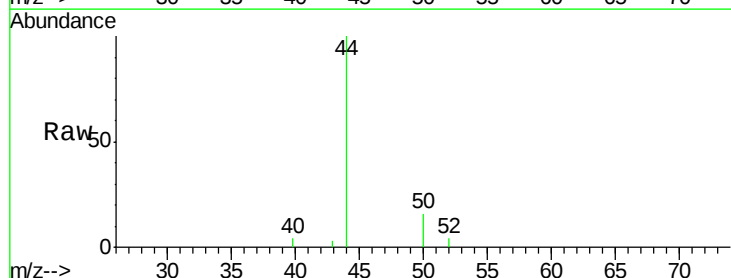
Acq: 10 Jul 2018 17:17

Tgt Ion: 50 Resp: 714

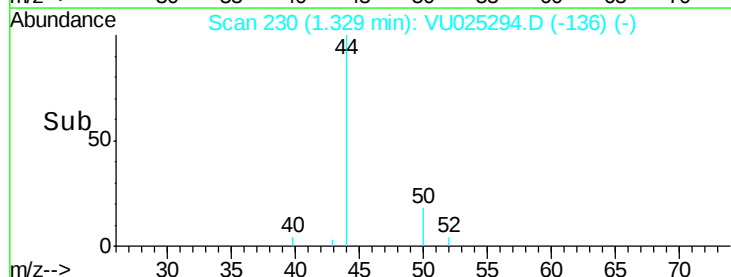
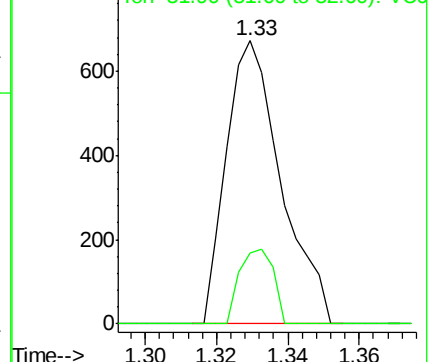
Ion Ratio Lower Upper

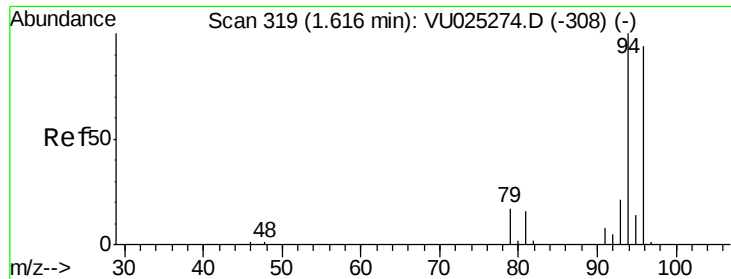
50 100

52 25.0 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VU025294.D (-136) (-)





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 327

Delta R.T. 0.03 min

Lab File: VU025294.D

Acq: 10 Jul 2018 17:17

Instrument :

MSVOA_U

ClientSampleId :

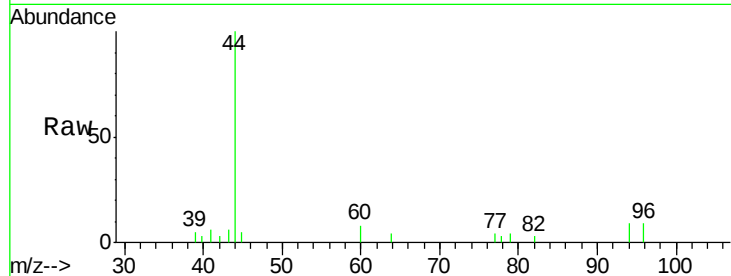
SS037MW076-180703

Tot Ion: 94 Resp: 429

Ion Ratio Lower Upper

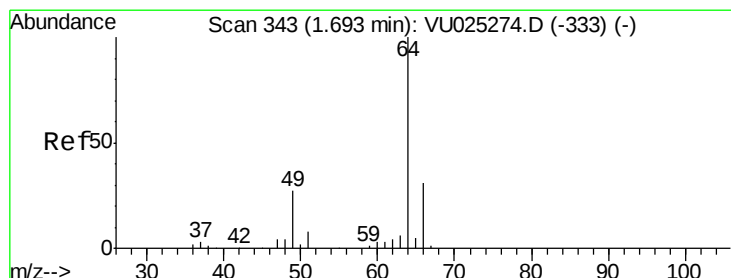
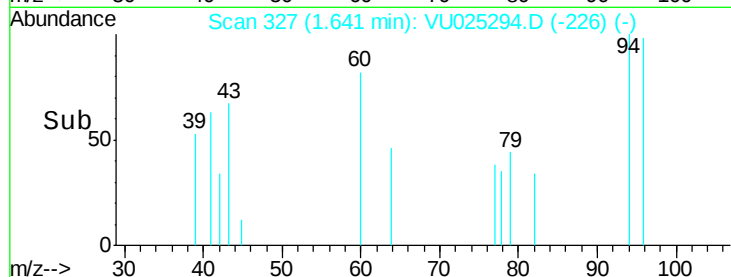
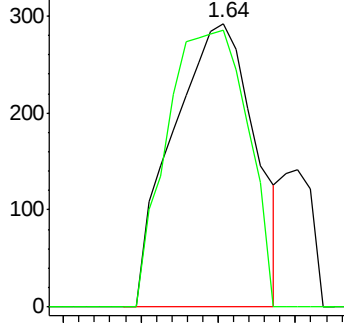
94 100

96 97.9 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: 1.64 min Scan# 328

Delta R.T. -0.05 min

Lab File: VU025294.D

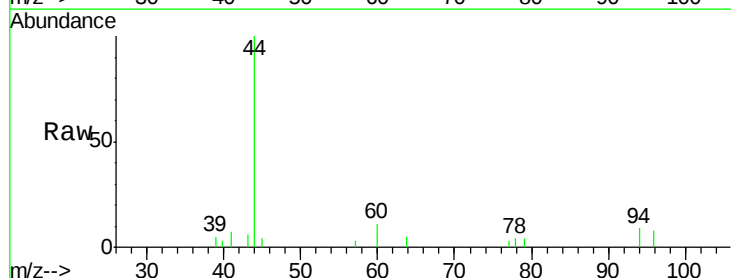
Acq: 10 Jul 2018 17:17

Tgt Ion: 64 Resp: 74

Ion Ratio Lower Upper

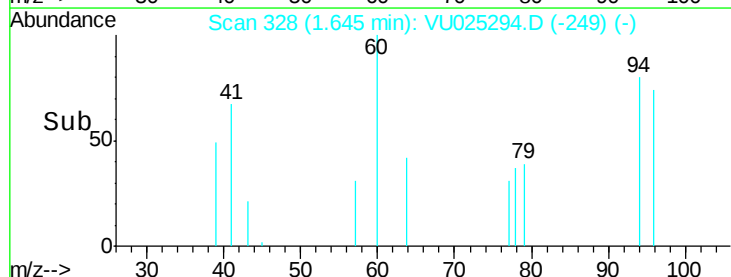
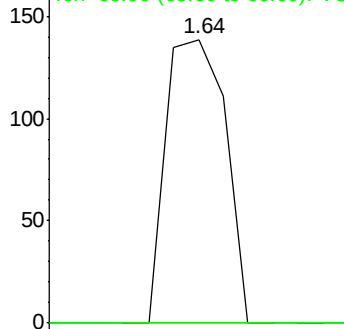
64 100

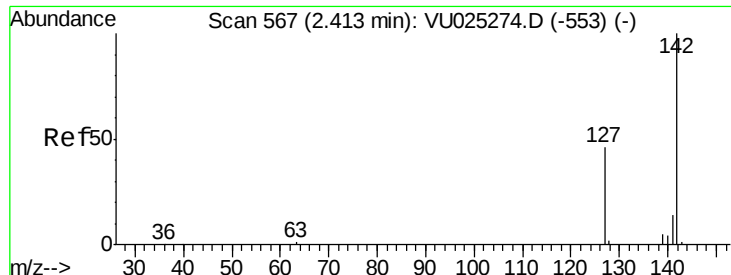
66 0.0 25.0 37.4#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

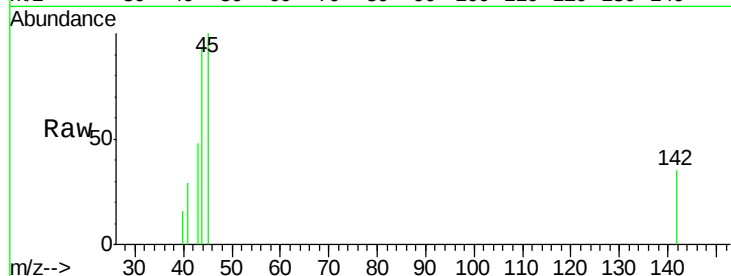




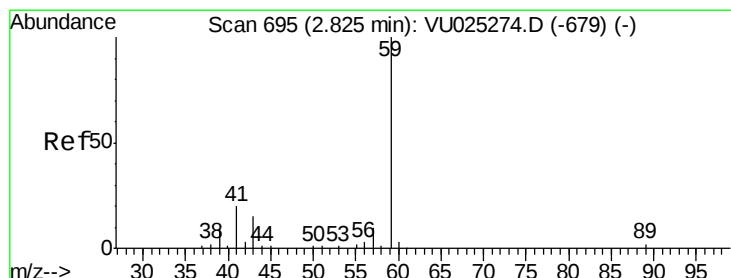
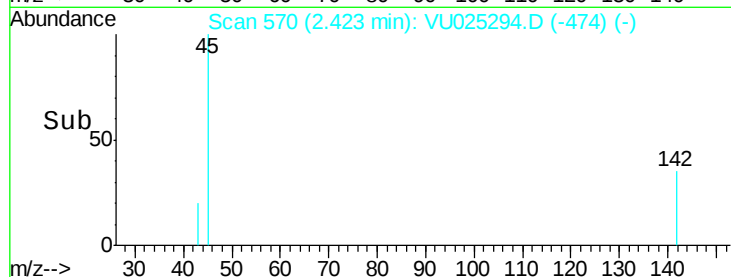
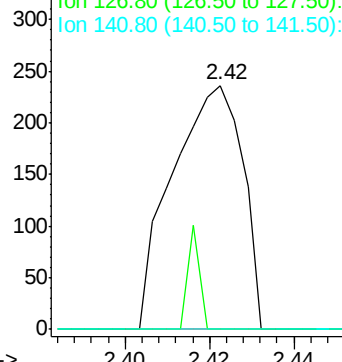
#10
Methyl Iodide
Concen: 7.80 ug/l
RT: 2.42 min Scan# 570
Delta R.T. 0.01 min
Lab File: VU025294.D
Acq: 10 Jul 2018 17:17

Instrument :
MSVOA_U
ClientSampleId :
SS037MW076-180703

Tot Ion:142 Resp: 272
Ion Ratio Lower Upper
142 100
127 7.0 36.5 54.7#
141 0.0 11.4 17.2#

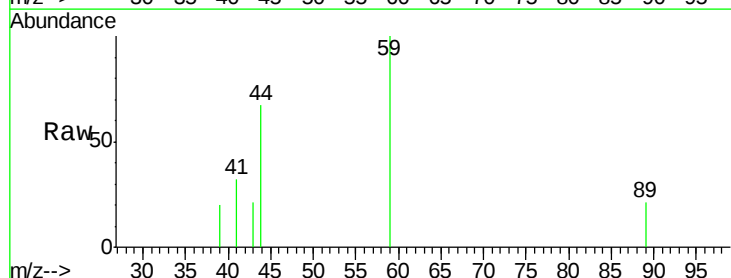


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

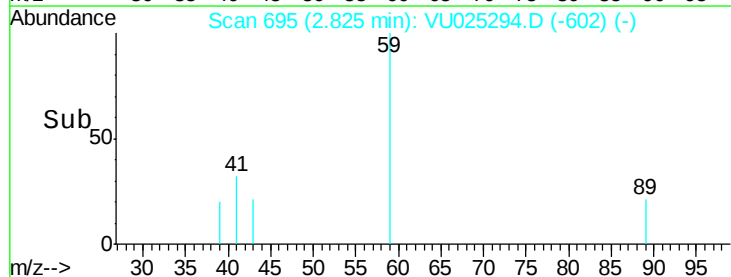
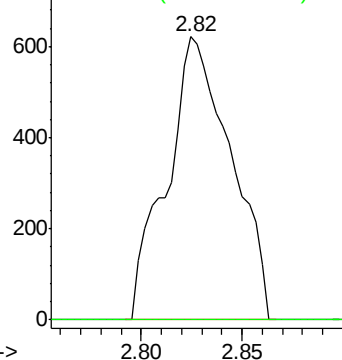


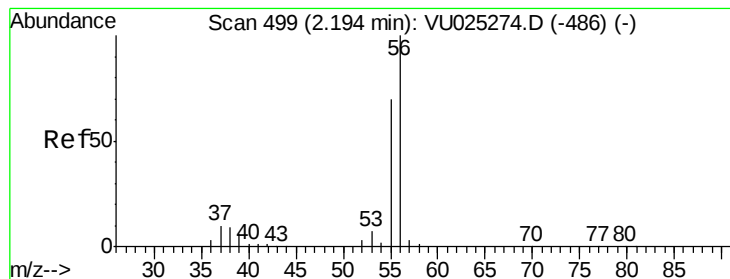
#11
Tert butyl alcohol
Concen: 2.04 ug/l
RT: 2.82 min Scan# 695
Delta R.T. 0.00 min
Lab File: VU025294.D
Acq: 10 Jul 2018 17:17

Tgt Ion: 59 Resp: 1376
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





#13

Acrolein

Concen: 0.24 ug/l

RT: 2.19 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU025294.D

Acq: 10 Jul 2018 17:17

Instrument :

MSVOA_U

ClientSampleId :

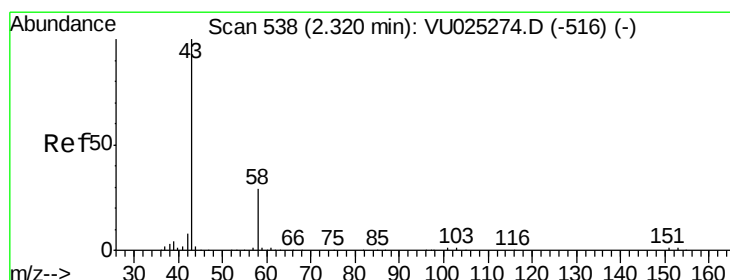
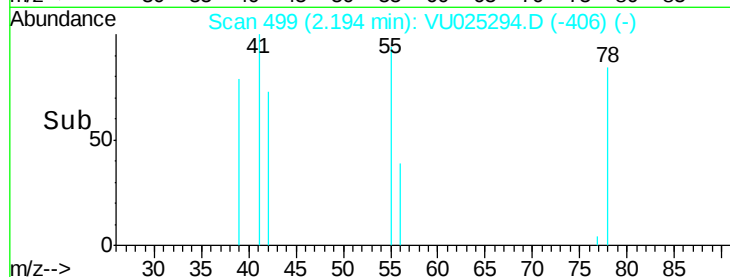
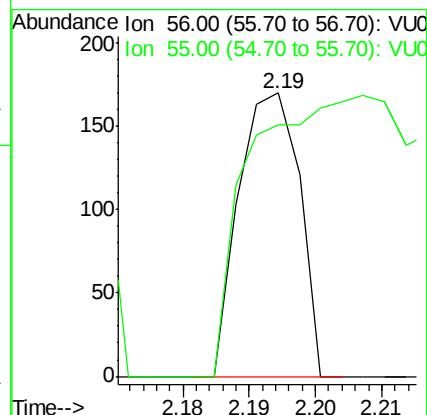
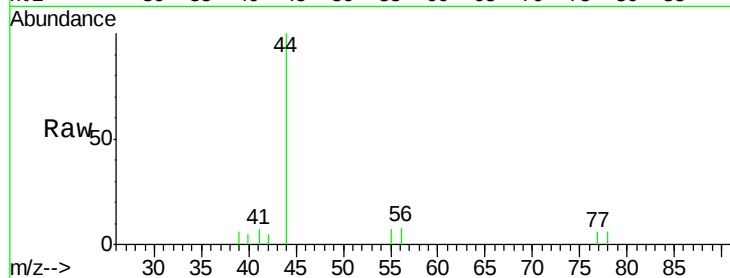
SS037MW076-180703

Tot Ion: 56 Resp: 108

Ion Ratio Lower Upper

56 100

55 243.5 57.2 85.8#



#16

Acetone

Concen: 5.48 ug/l

RT: 2.32 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU025294.D

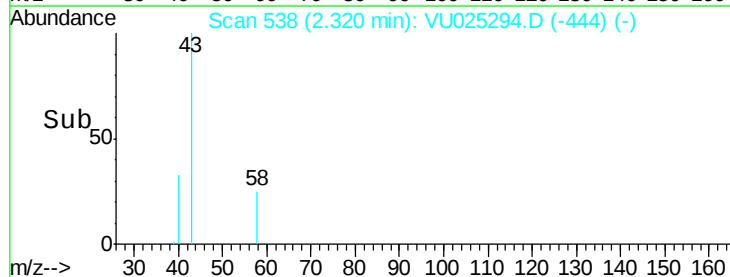
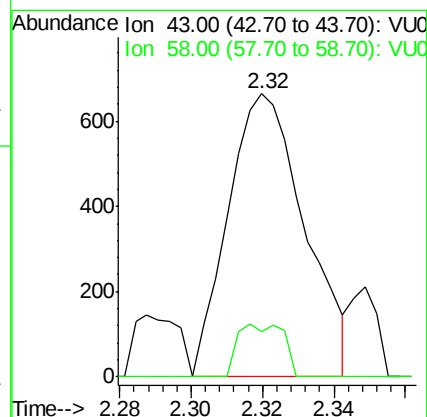
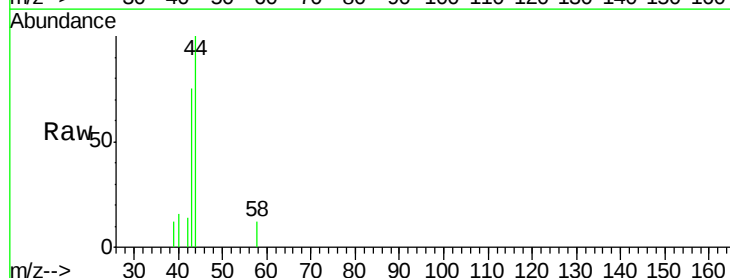
Acq: 10 Jul 2018 17:17

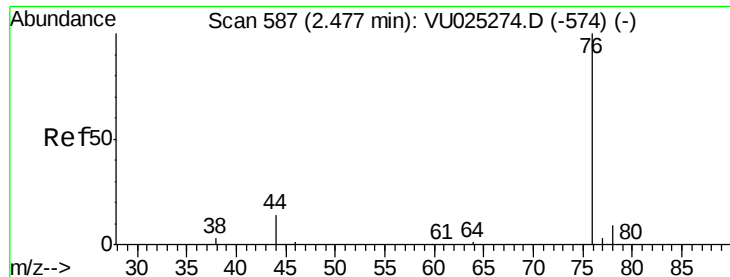
Tgt Ion: 43 Resp: 983

Ion Ratio Lower Upper

43 100

58 15.8 23.1 34.7#





#17

Carbon Disulfide

Concen: 1.98 ug/l

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU025294.D

Acq: 10 Jul 2018 17:17

Instrument :

MSVOA_U

ClientSampleId :

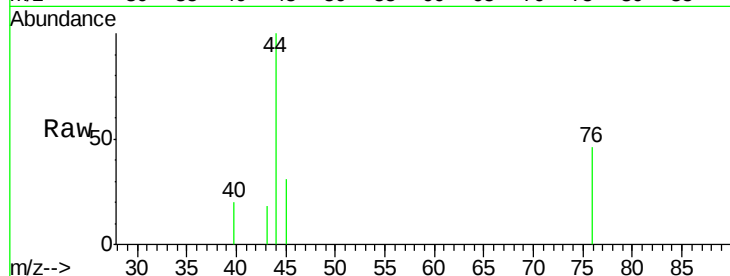
SS037MW076-180703

Tot Ion: 76 Resp: 306

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

250

200

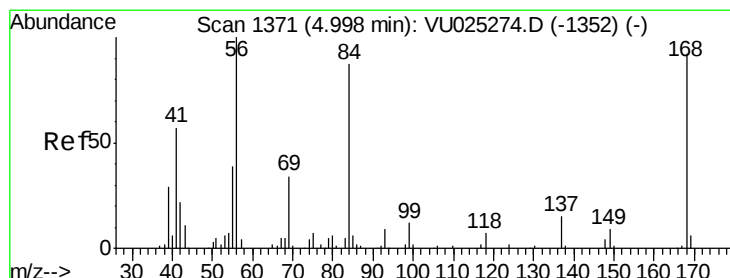
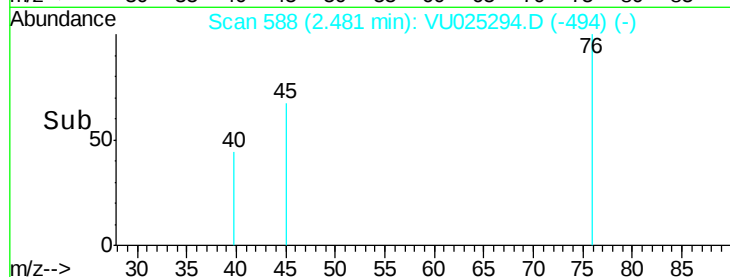
150

100

50

0

Time-->



#31

Cyclohexane

Concen: 1.74 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.01 min

Lab File: VU025294.D

Acq: 10 Jul 2018 17:17

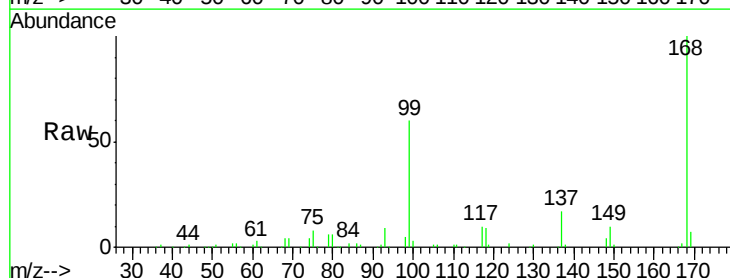
Tgt Ion: 56 Resp: 3944

Ion Ratio Lower Upper

56 100

69 176.0 26.8 40.2#

84 108.5 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

5000

4000

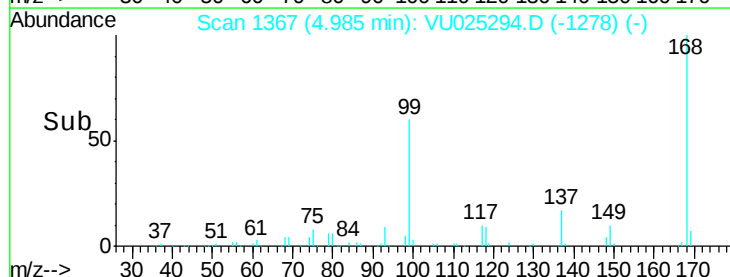
3000

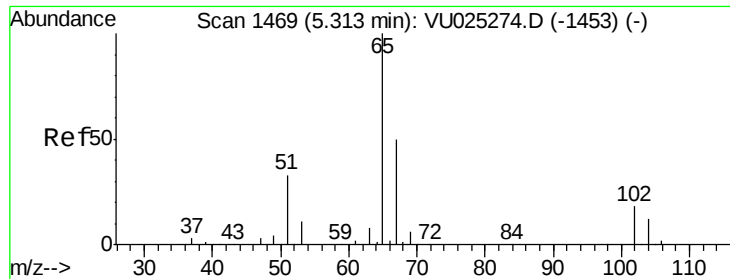
2000

1000

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 49.75 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VU025294.D

Acq: 10 Jul 2018 17:17

Instrument :

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ClientSampleId :

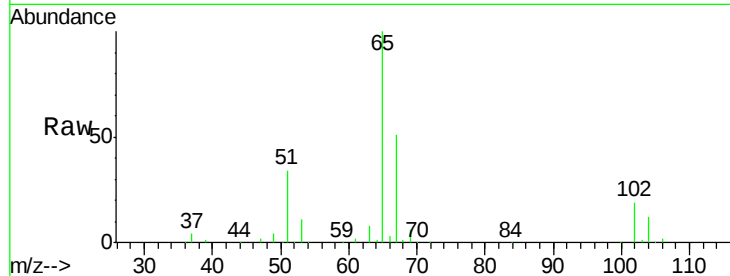
SS037MW076-180703

Tot Ion: 65 Resp: 153536

Ion Ratio Lower Upper

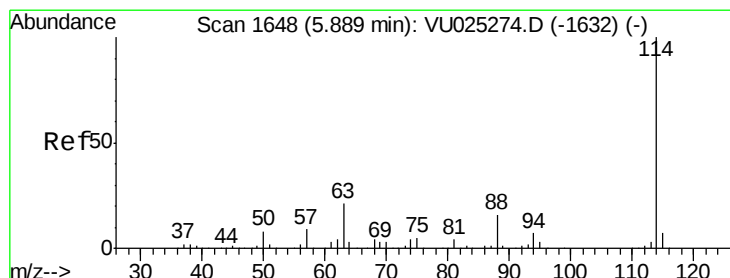
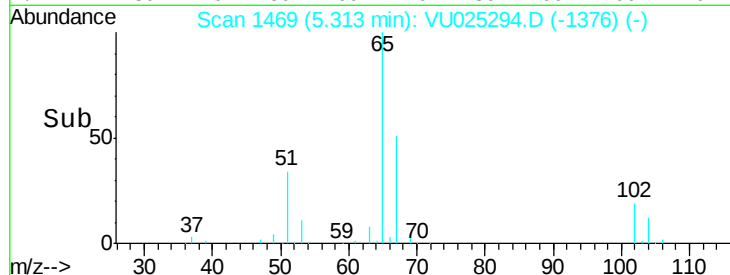
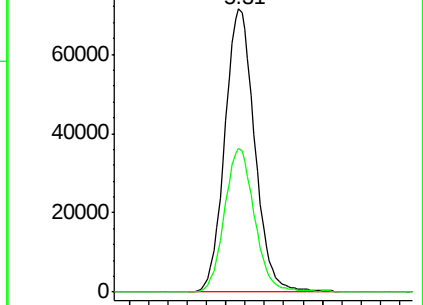
65 100

67 50.8 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VU025294.D (-1376) (-)

Ion 66.90 (66.60 to 67.60): VU025294.D (-1376) (-)



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU025294.D

Acq: 10 Jul 2018 17:17

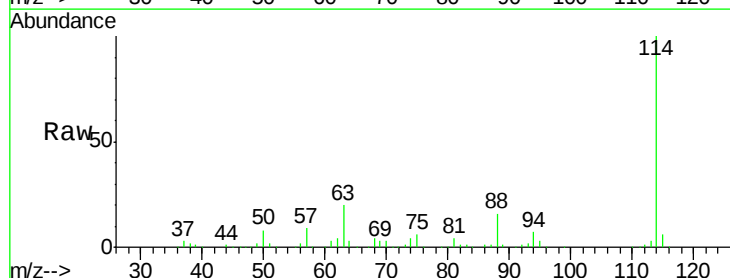
Tgt Ion: 114 Resp: 298905

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.6

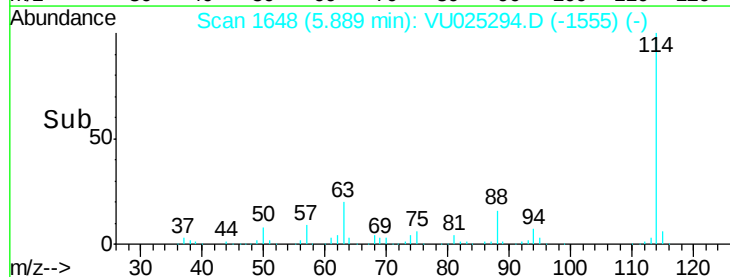
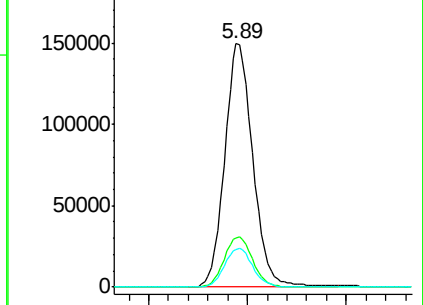
88 15.6 0.0 32.4

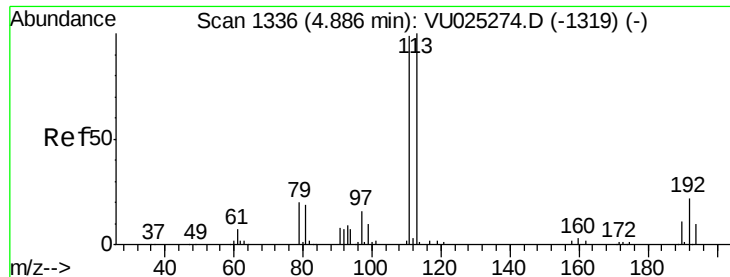


Abundance Ion 113.90 (113.60 to 114.60): VU025294.D (-1555) (-)

Ion 63.00 (62.70 to 63.70): VU025294.D (-1555) (-)

Ion 87.90 (87.60 to 88.60): VU025294.D (-1555) (-)





#35

Dibromofluoromethane

Concen: 46.83 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025294.D

Acq: 10 Jul 2018 17:17

Instrument :

MSVOA_U

ClientSampleId :

SS037MW076-180703

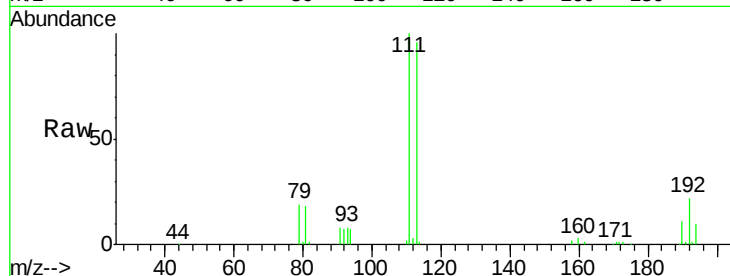
Tot Ion:113 Resp: 118080

Ion Ratio Lower Upper

113 100

111 102.3 81.7 122.5

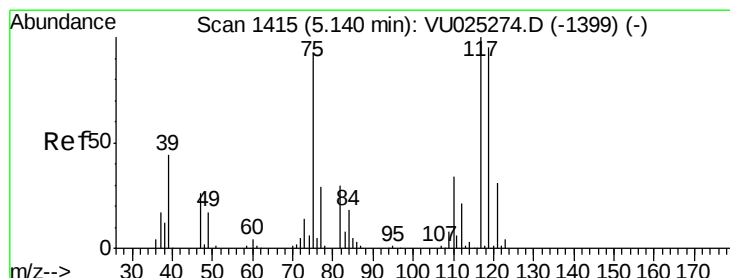
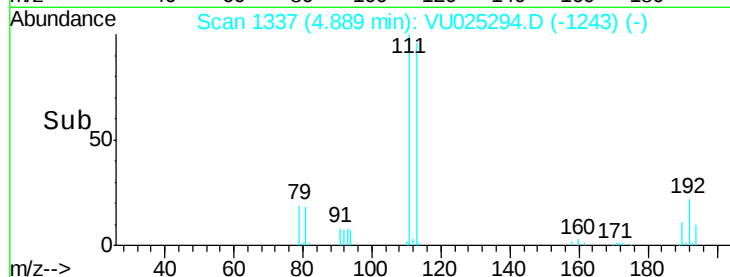
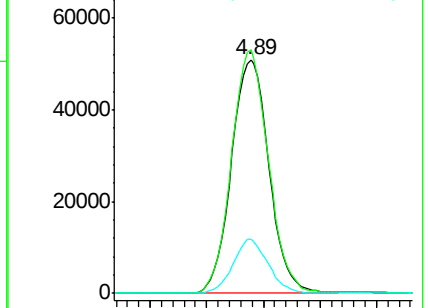
192 21.6 17.1 25.7



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: 4.47 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025294.D

Acq: 10 Jul 2018 17:17

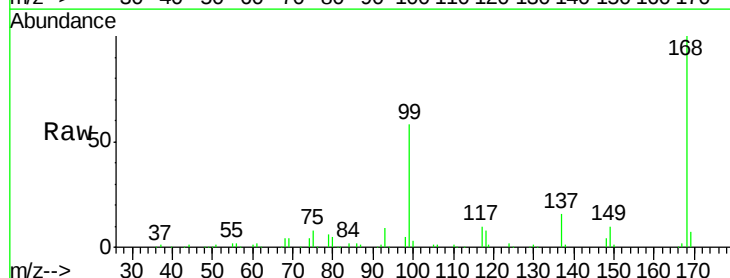
Tgt Ion: 75 Resp: 14869

Ion Ratio Lower Upper

75 100

110 8.9 17.6 52.9#

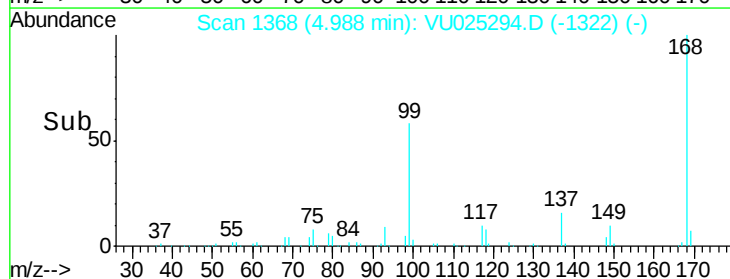
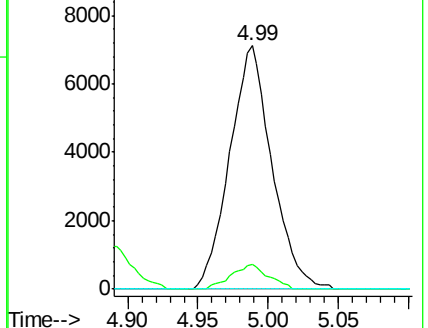
77 0.0 24.4 36.6#

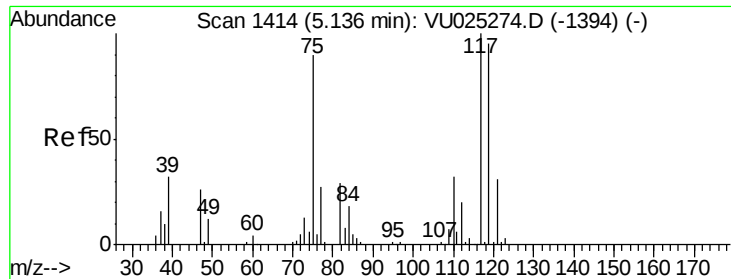


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

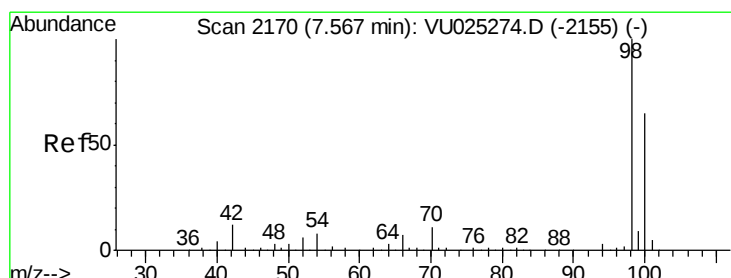
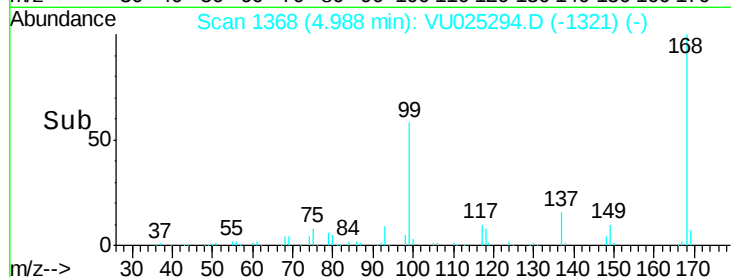
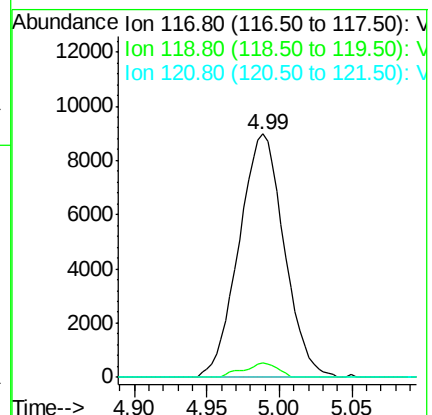
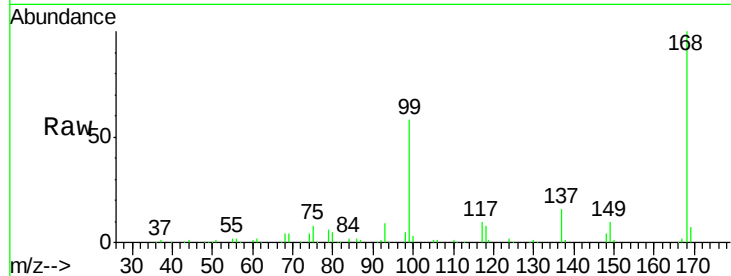




#38
Carbon Tetrachloride
Concen: 5.44 ug/l
RT: 4.99 min Scan# 1368
Delta R.T. -0.15 min
Lab File: VU025294.D
Acq: 10 Jul 2018 17:17

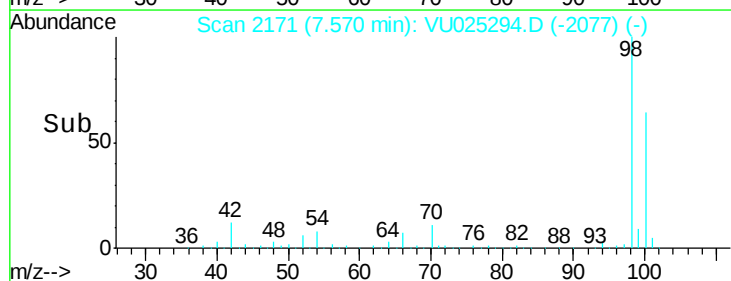
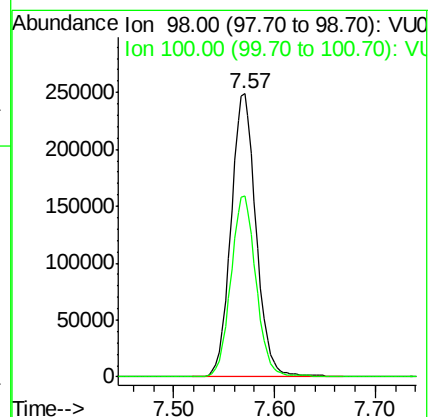
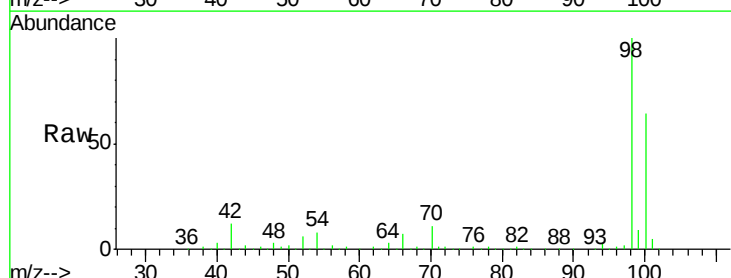
Instrument :
MSVOA_U
ClientSampleId :
SS037MW076-180703

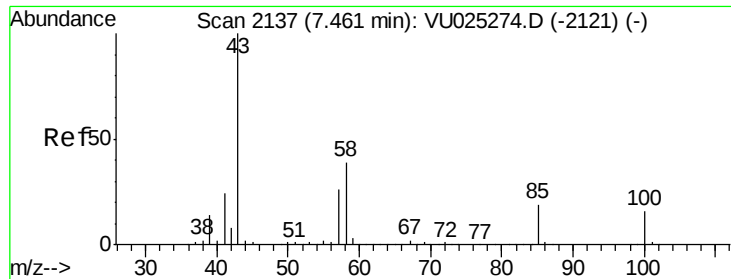
Tot Ion:117 Resp: 19466
Ion Ratio Lower Upper
117 100
119 5.8 75.7 113.5#
121 0.0 24.6 36.8#



#50
Toluene-d8
Concen: 50.08 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. 0.00 min
Lab File: VU025294.D
Acq: 10 Jul 2018 17:17

Tgt Ion: 98 Resp: 432405
Ion Ratio Lower Upper
98 100
100 64.1 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 0.52 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.11 min

Lab File: VU025294.D

Acq: 10 Jul 2018 17:17

Instrument :

MSVOA_U

ClientSampleId :

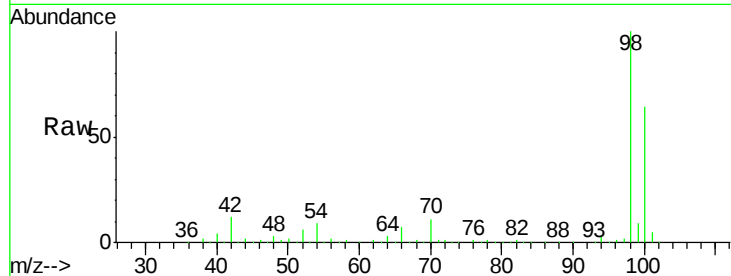
SS037MW076-180703

Tot Ion: 43 Resp: 1995

Ion Ratio Lower Upper

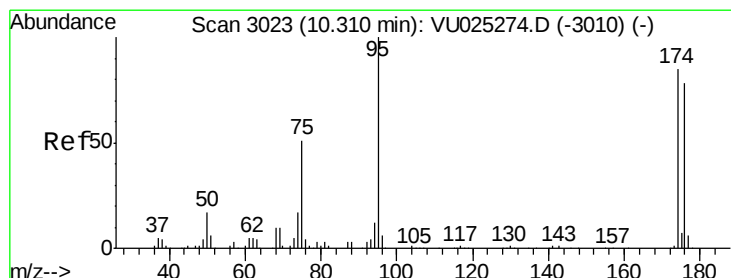
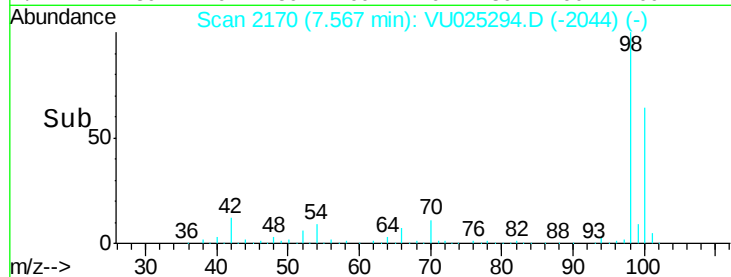
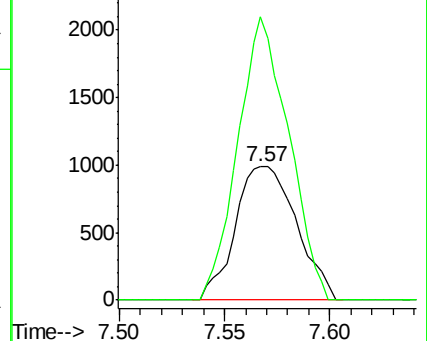
43 100

58 176.3 31.0 46.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#62

4-Bromofluorobenzene

Concen: 45.43 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU025294.D

Acq: 10 Jul 2018 17:17

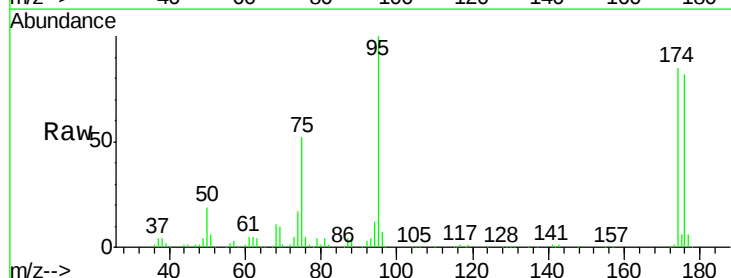
Tgt Ion: 95 Resp: 157912

Ion Ratio Lower Upper

95 100

174 85.6 0.0 172.2

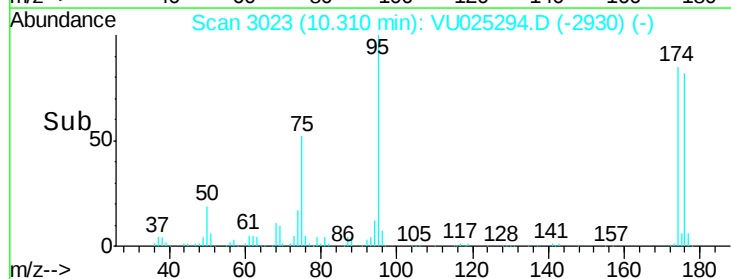
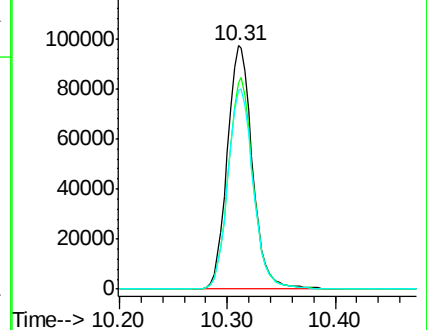
176 83.2 0.0 162.6

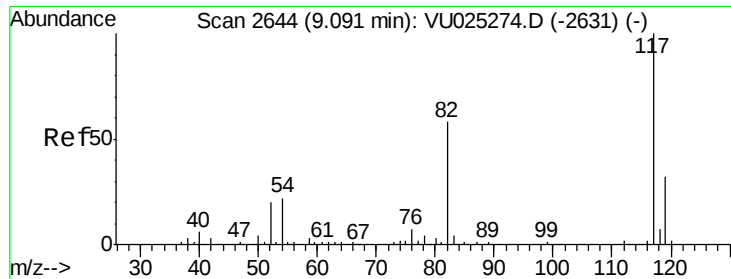


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

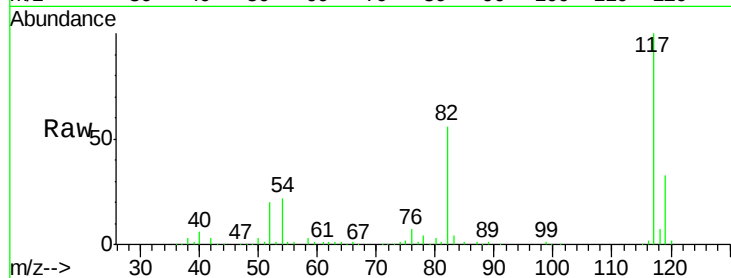




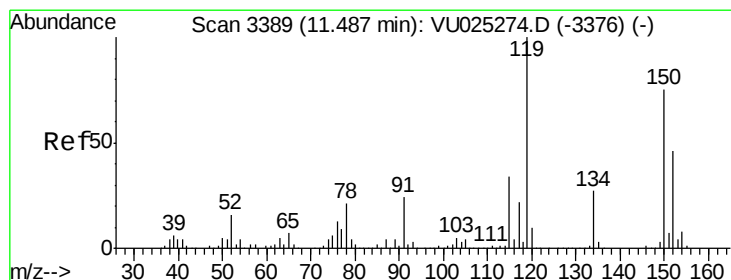
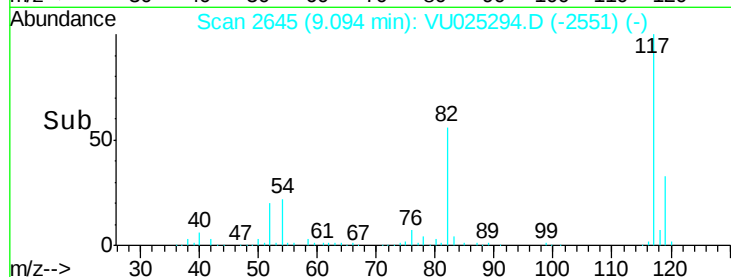
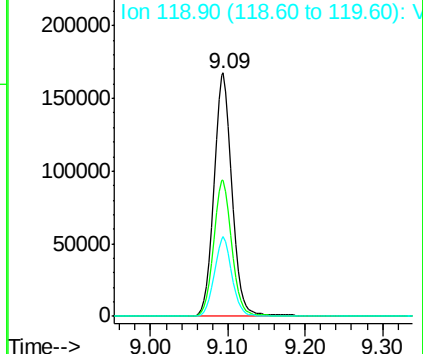
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025294.D
Acq: 10 Jul 2018 17:17

Instrument :
MSVOA_U
ClientSampleId :
SS037MW076-180703

Tot Ion:117 Resp: 279518
Ion Ratio Lower Upper
117 100
82 55.9 46.0 69.0
119 32.7 26.0 39.0

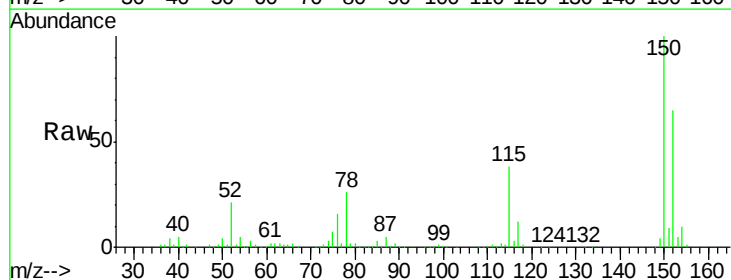


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

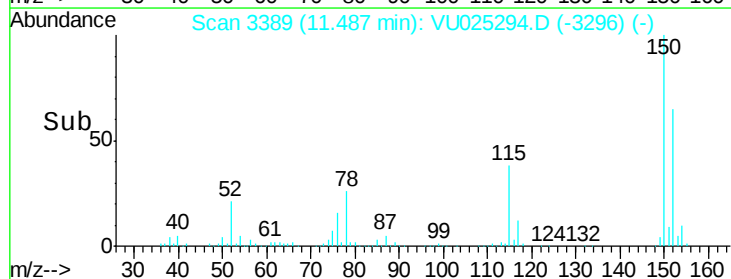
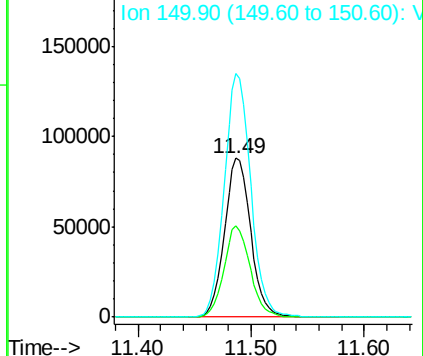


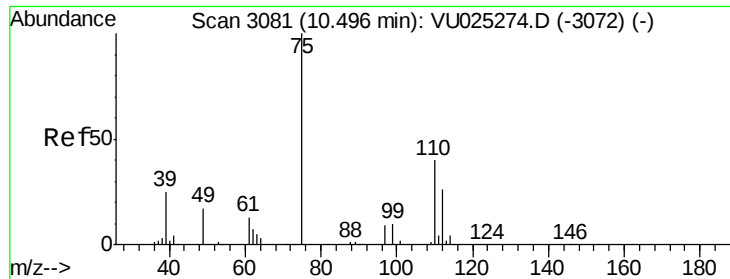
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU025294.D
Acq: 10 Jul 2018 17:17

Tgt Ion:152 Resp: 142267
Ion Ratio Lower Upper
152 100
115 57.1 40.1 120.3
150 154.3 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

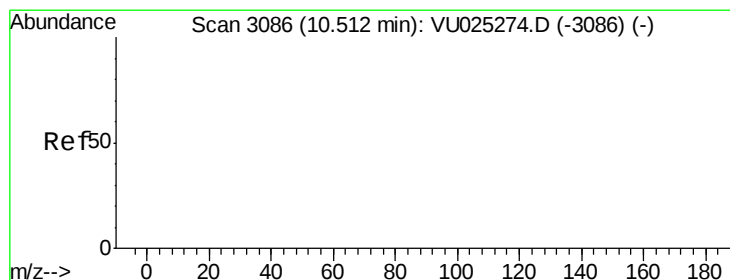
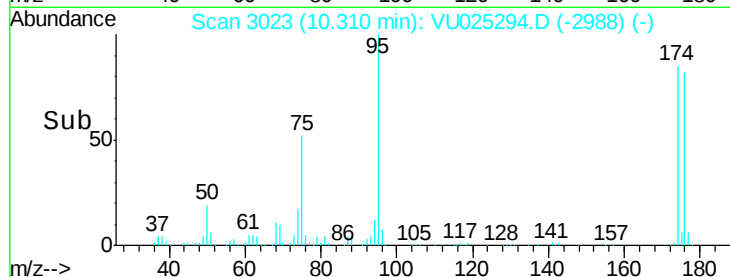
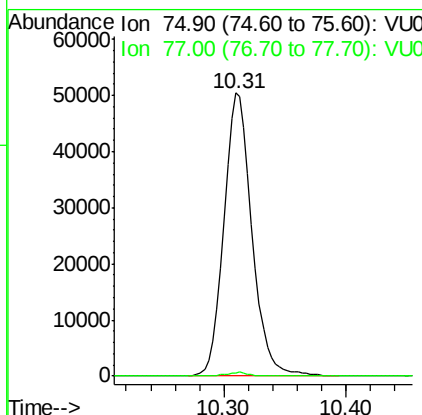
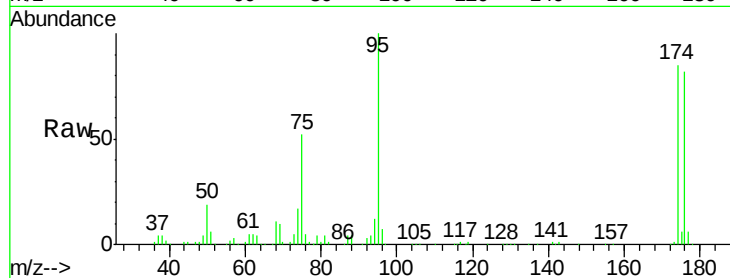




#76
 1,2,3-Trichloropropane
 Concen: 28.09 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.19 min
 Lab File: VU025294.D
 Acq: 10 Jul 2018 17:17

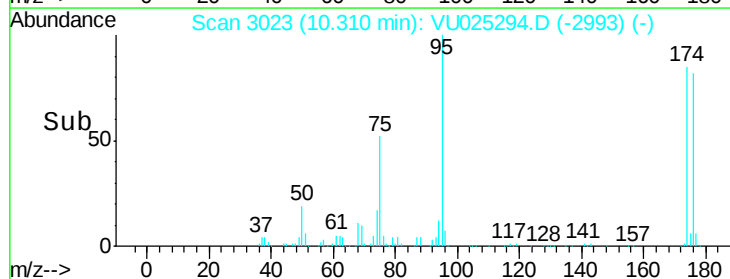
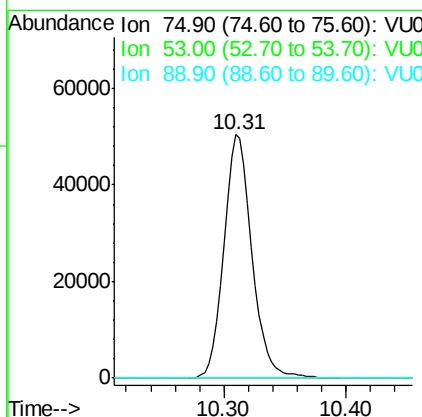
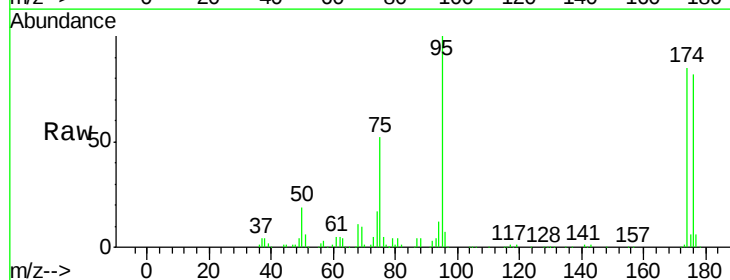
Instrument :
 MSVOA_U
 ClientSampleId :
 SS037MW076-180703

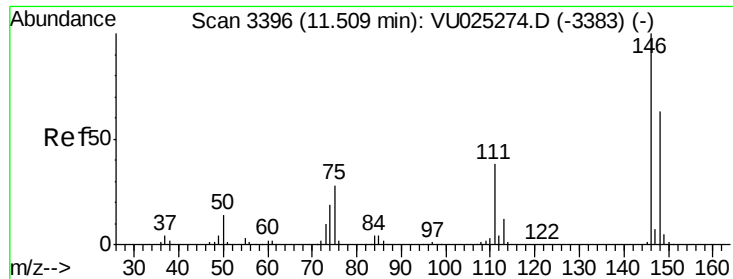
Tot Ion: 75 Resp: 81349
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.4 61.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.77 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.20 min
 Lab File: VU025294.D
 Acq: 10 Jul 2018 17:17

Tgt Ion: 75 Resp: 81349
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0





#88

1,4-Dichlorobenzene

Concen: 1.50 ug/l

RT: 11.51 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VU025294.D

Acq: 10 Jul 2018 17:17

Instrument :

MSVOA_U

ClientSampleId :

SS037MW076-180703

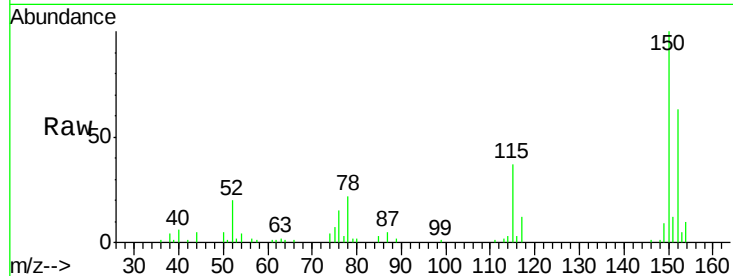
Tot Ion:146 Resp: 41

Ion Ratio Lower Upper

146 100

111 0.0 19.4 58.1#

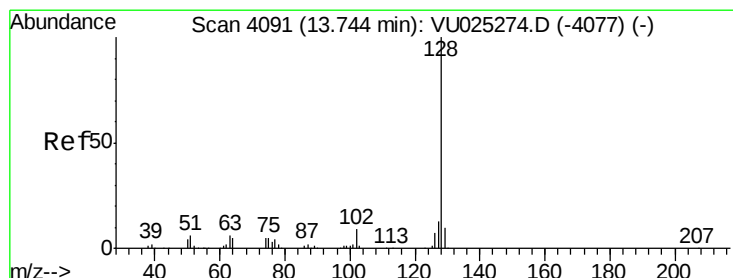
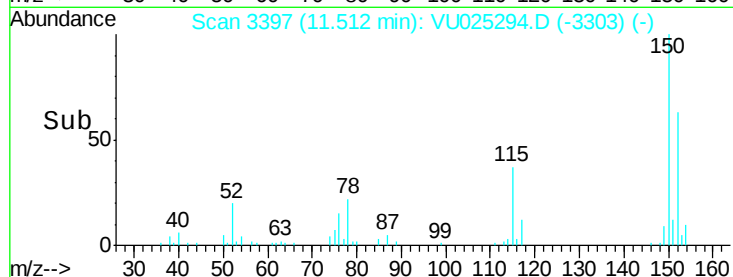
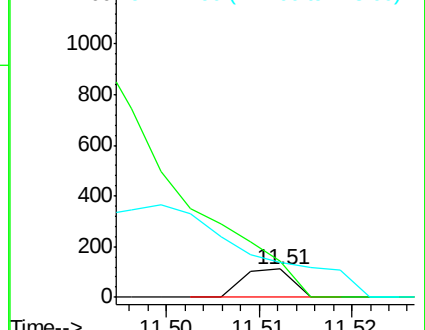
148 0.0 31.7 95.1#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 2.43 ug/l

RT: 13.75 min Scan# 4093

Delta R.T. 0.01 min

Lab File: VU025294.D

Acq: 10 Jul 2018 17:17

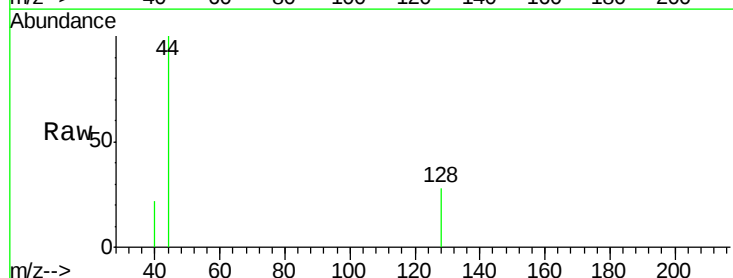
Tgt Ion:128 Resp: 169

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 25.4 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

