

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061318\
 Data File : VU024515.D
 Acq On : 13 Jun 2018 18:08
 Operator : MD/SY
 Sample : PB110190ZHE#14
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB110190ZHE#14

Quant Time: Jun 14 02:19:24 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	185408	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	315275	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	302830	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	179156	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.32	65	145182	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	
35) Dibromofluoromethane	4.89	113	126215	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	
50) Toluene-d8	7.57	98	464778	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	
62) 4-Bromofluorobenzene	10.31	95	181547	47.91	ug/l	0.00
Spiked Amount			Recovery	=	95.82%	

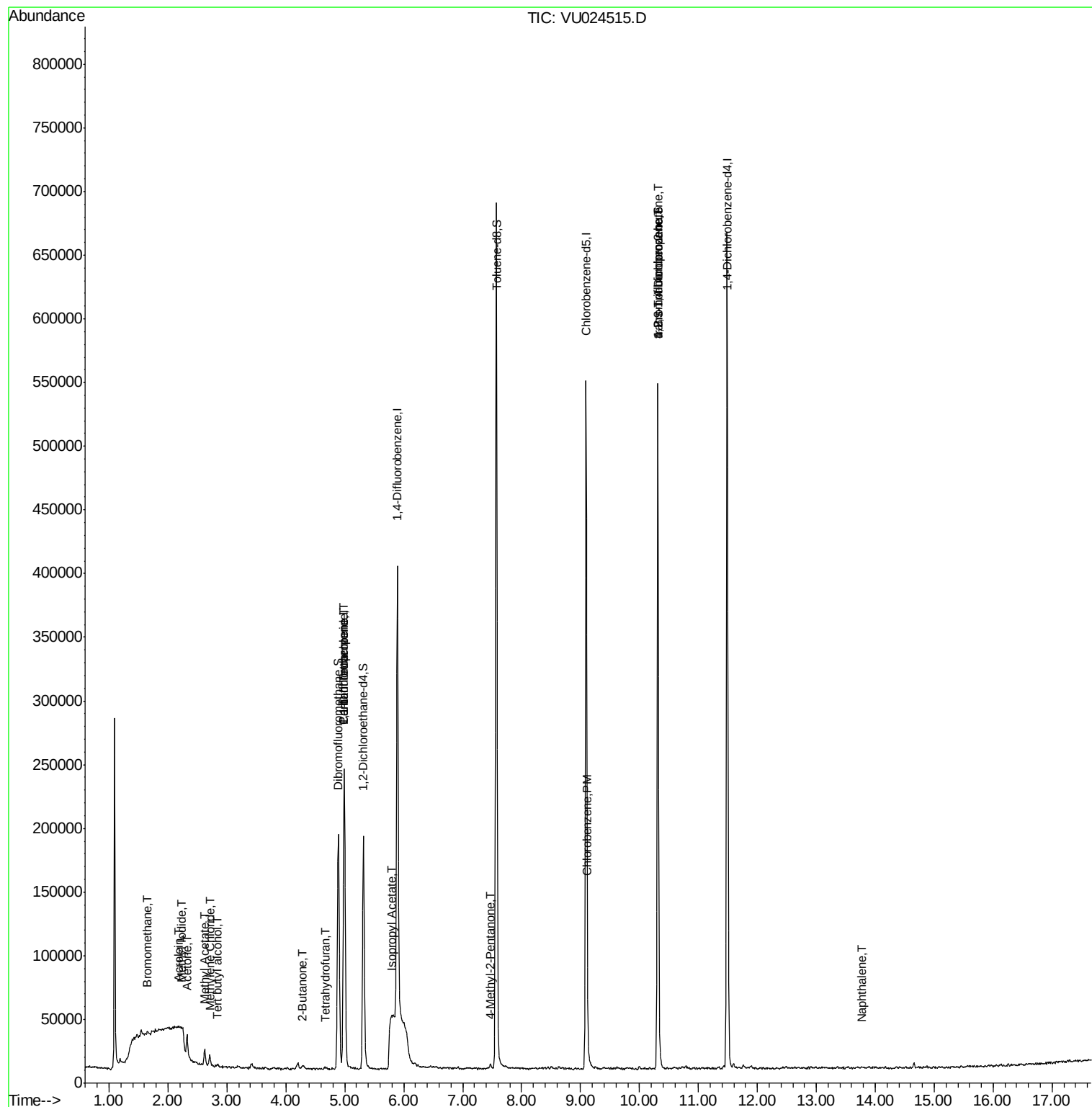
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	397	0.34	ug/l	# 48
6) Chloroethane	1.68	64	334	Below	Cal	97
8) Diethyl Ether	2.16	74	92	Below	Cal	56
10) Methyl Iodide	2.22	142	67	5.32	ug/l	# 1
11) Tert butyl alcohol	2.83	59	870	1.18	ug/l	# 77
13) Acrolein	2.19	56	297	0.77	ug/l	# 13
16) Acetone	2.32	43	17805	10.95	ug/l	99
18) Methyl Acetate	2.62	43	16792	4.82	ug/l	99
20) Methylene Chloride	2.71	84	3757	1.47	ug/l	90
25) 2-Butanone	4.28	43	5142	2.35	ug/l	# 90
29) Tetrahydrofuran	4.66	42	442	0.33	ug/l	# 60
31) Cyclohexane	4.99	56	4100	Below	Cal	# 10
36) 1,1-Dichloropropene	4.99	75	13518	3.65	ug/l	# 54
38) Carbon Tetrachloride	4.99	117	17183	4.22	ug/l	# 16
43) Isopropyl Acetate	5.79	43	47676	6.83	ug/l	# 63
51) 4-Methyl-2-Pentanone	7.47	43	2349	0.54	ug/l	# 81
65) Chlorobenzene	9.12	112	5067	0.65	ug/l	99
76) 1,2,3-Trichloropropane	10.31	75	91782	23.27	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	10.31	75	91782	53.85	ug/l	# 100
95) Naphthalene	13.76	128	317	0.70	ug/l	# 69

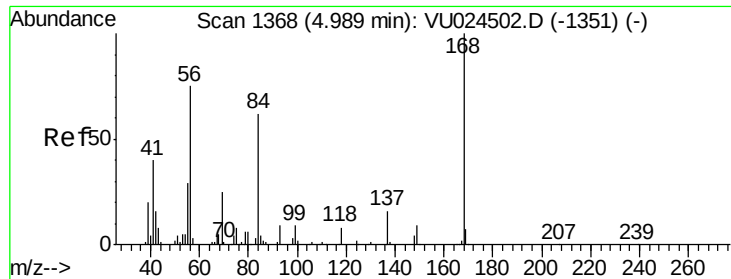
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 13 13:55:26 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VU024515.D

Acq: 13 Jun 2018 18:08

Instrument :

MSVOA_U

ClientSampleId :

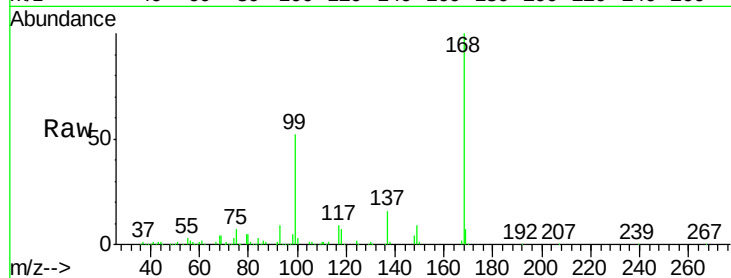
PB110190ZHE#14

Tgt Ion:168 Resp: 185408

Ion Ratio Lower Upper

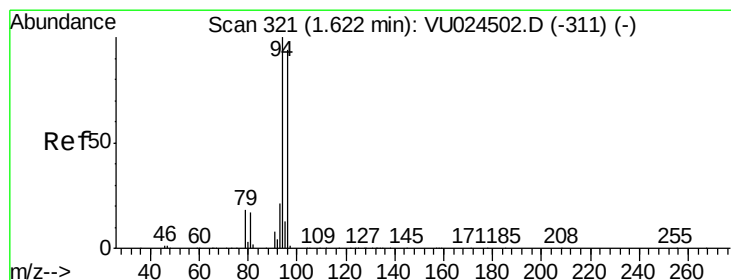
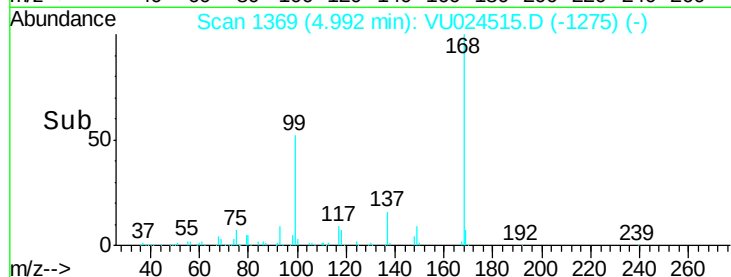
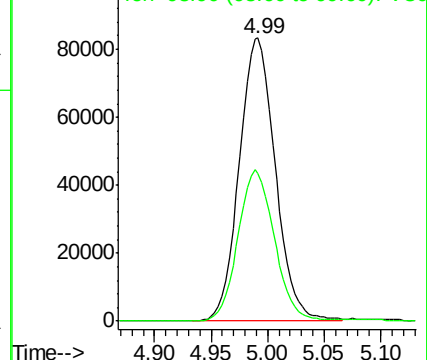
168 100

99 52.3 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)

Ion 98.90 (98.60 to 99.60): VU024502.D (-1351) (-)



#5

Bromomethane

Concen: 0.34 ug/l

RT: 1.64 min Scan# 328

Delta R.T. 0.02 min

Lab File: VU024515.D

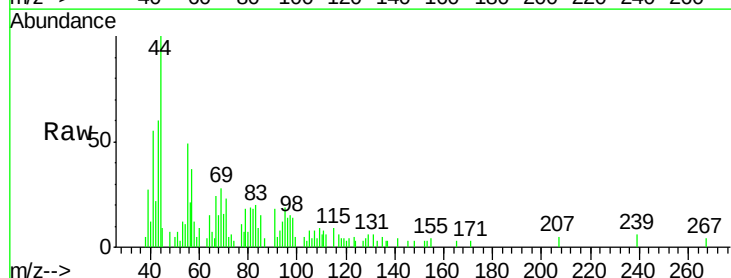
Acq: 13 Jun 2018 18:08

Tgt Ion: 94 Resp: 397

Ion Ratio Lower Upper

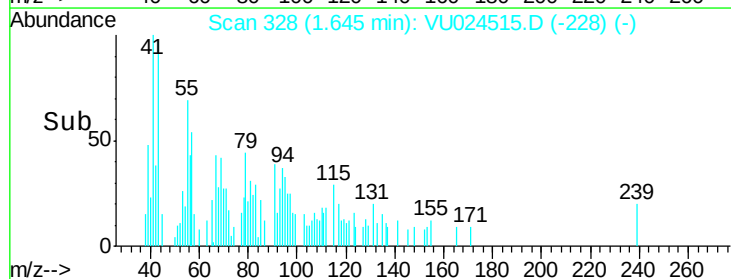
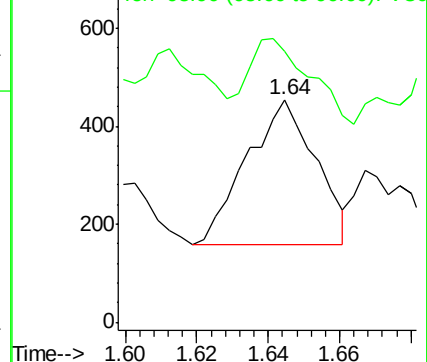
94 100

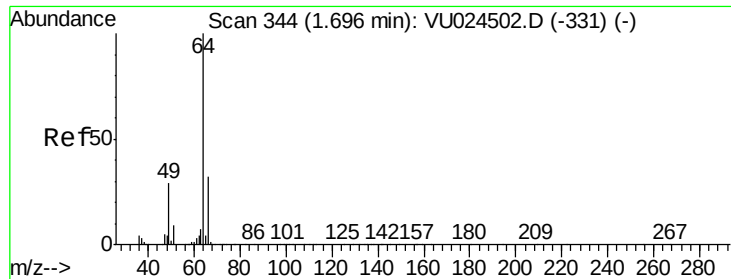
96 43.6 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VU024502.D (-311) (-)

Ion 95.90 (95.60 to 96.60): VU024502.D (-311) (-)





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 338

Delta R.T. -0.02 min

Lab File: VU024515.D

Acq: 13 Jun 2018 18:08

Instrument :

MSVOA_U

ClientSampleId :

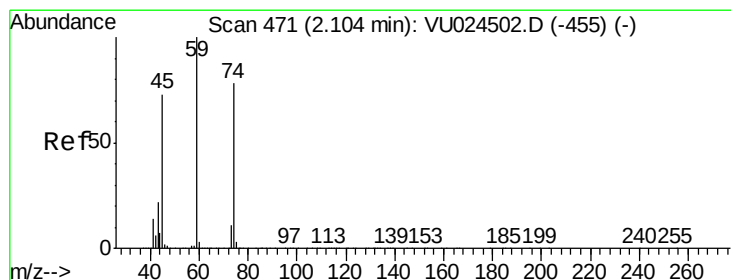
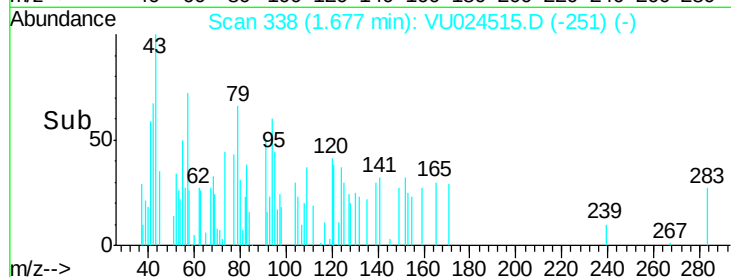
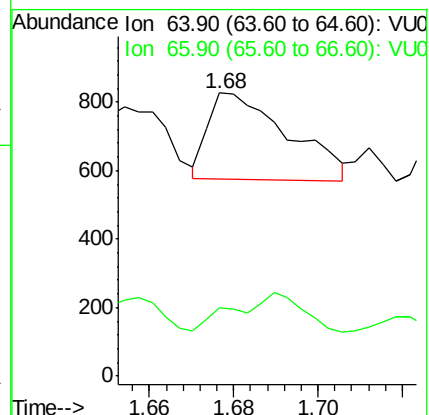
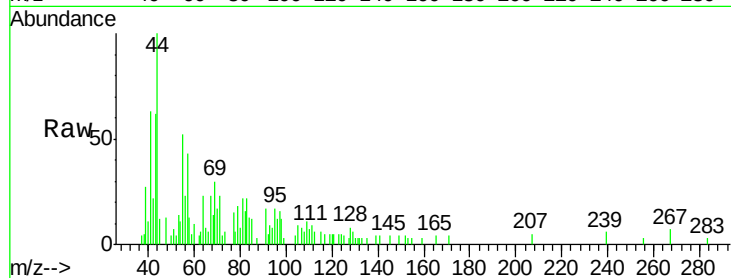
PB110190ZHE#14

Tgt Ion: 64 Resp: 334

Ion Ratio Lower Upper

64 100

66 33.3 25.5 38.3



#8

Diethyl Ether

Concen: Below Cal

RT: 2.16 min Scan# 489

Delta R.T. 0.06 min

Lab File: VU024515.D

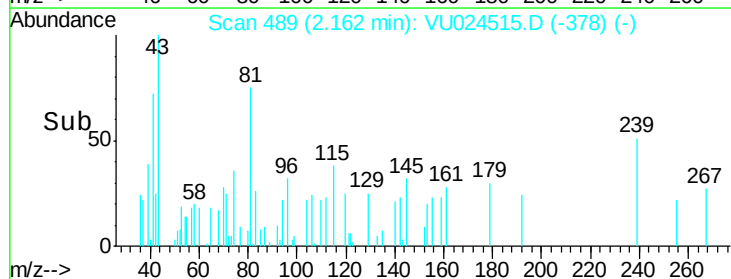
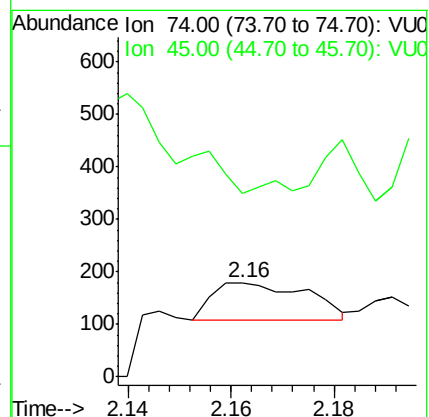
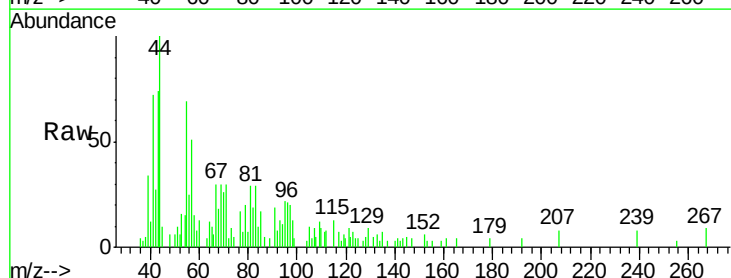
Acq: 13 Jun 2018 18:08

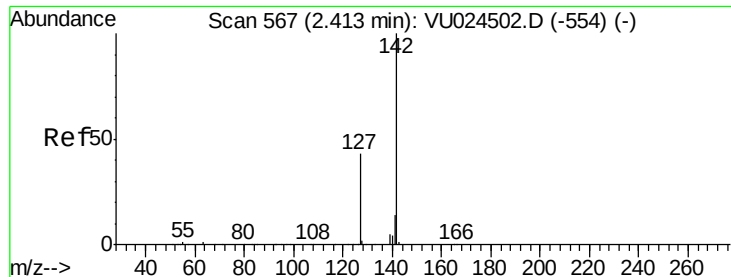
Tgt Ion: 74 Resp: 92

Ion Ratio Lower Upper

74 100

45 63.0 55.0 165.0

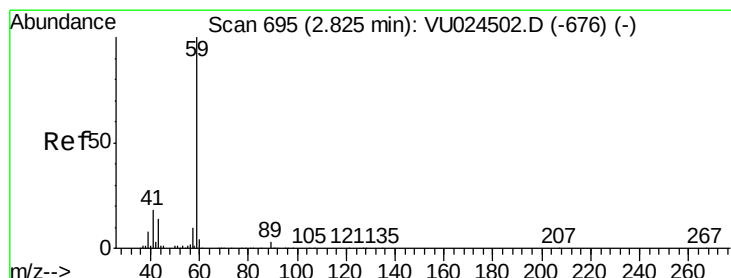
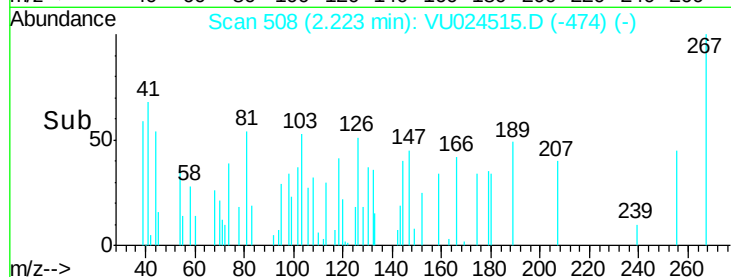
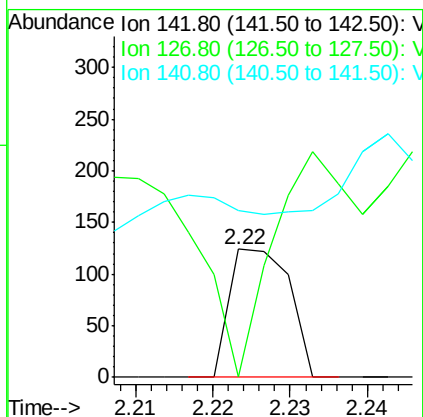
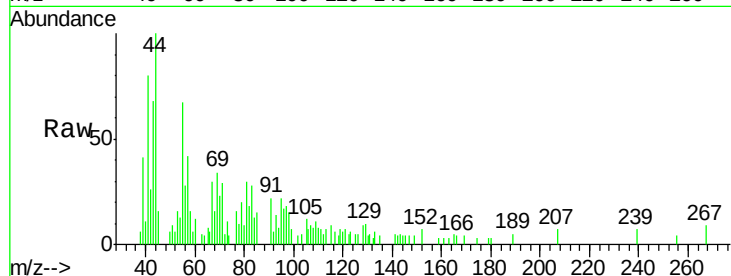




#10
Methyl Iodide
Concen: 5.32 ug/l
RT: 2.22 min Scan# 508
Delta R.T. -0.19 min
Lab File: VU024515.D
Acq: 13 Jun 2018 18:08

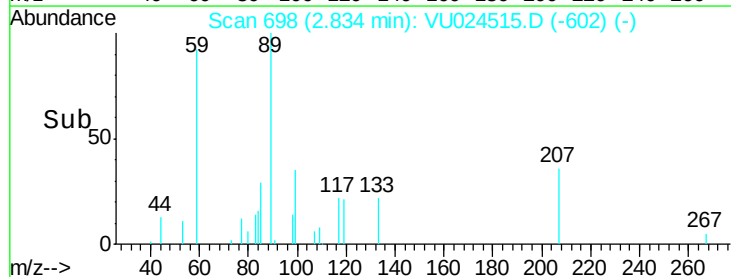
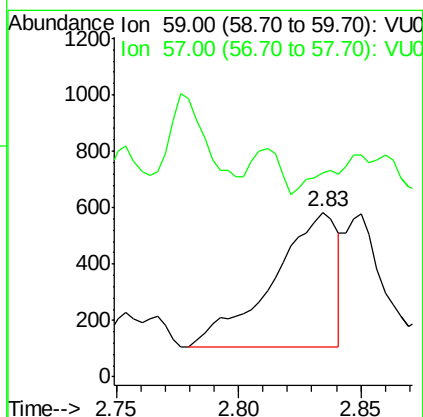
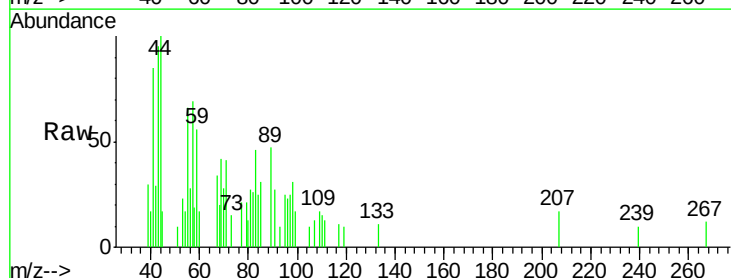
Instrument :
MSVOA_U
ClientSampleId :
PB110190ZHE#14

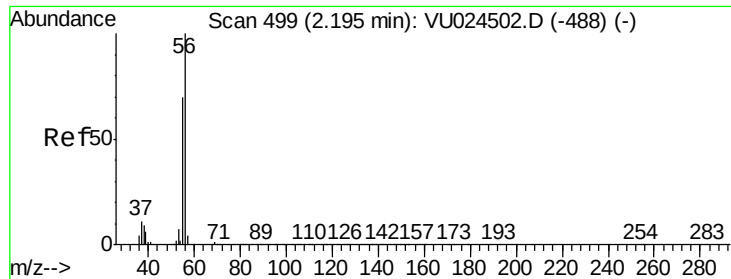
Tgt Ion:142 Resp: 67
Ion Ratio Lower Upper
142 100
127 244.8 35.6 53.4#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 1.18 ug/l
RT: 2.83 min Scan# 698
Delta R.T. 0.01 min
Lab File: VU024515.D
Acq: 13 Jun 2018 18:08

Tgt Ion: 59 Resp: 870
Ion Ratio Lower Upper
59 100
57 19.4 8.5 12.7#





#13

Acrolein

Concen: 0.77 ug/l

RT: 2.19 min Scan# 497

Delta R.T. -0.01 min

Lab File: VU024515.D

Acq: 13 Jun 2018 18:08

Instrument :

MSVOA_U

ClientSampleId :

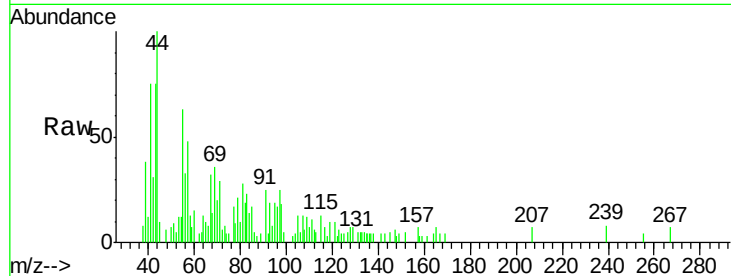
PB110190ZHE#14

Tgt Ion: 56 Resp: 297

Ion Ratio Lower Upper

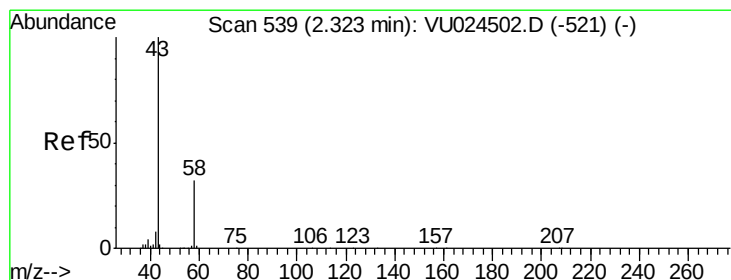
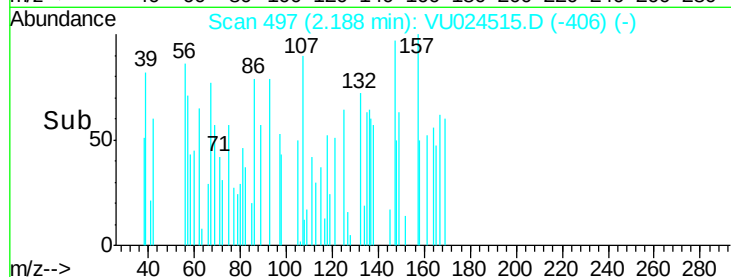
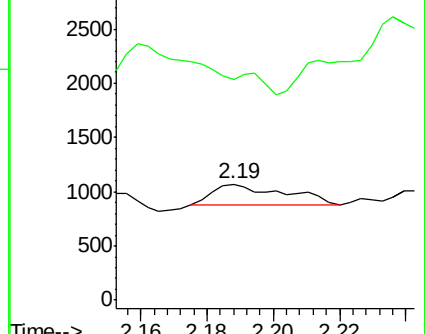
56 100

55 0.0 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#16

Acetone

Concen: 10.95 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU024515.D

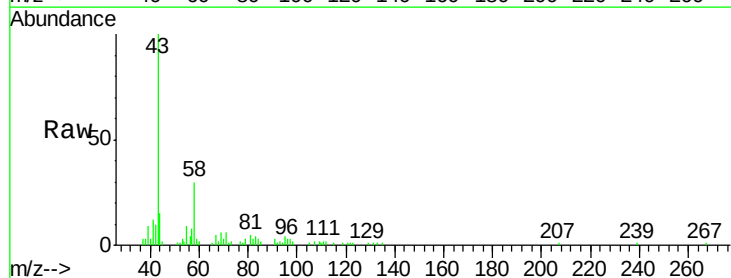
Acq: 13 Jun 2018 18:08

Tgt Ion: 43 Resp: 17805

Ion Ratio Lower Upper

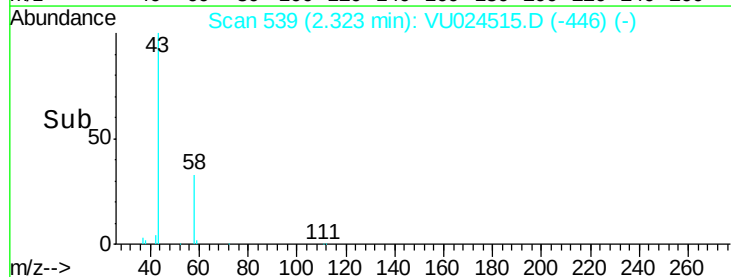
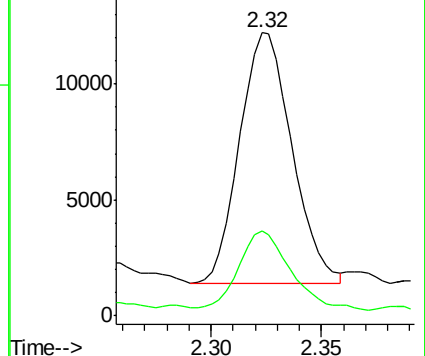
43 100

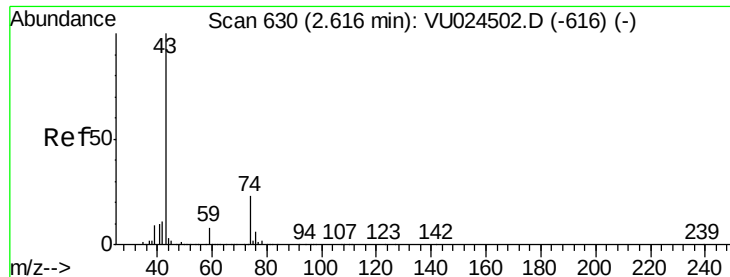
58 31.0 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#18

Methyl Acetate

Concen: 4.82 ug/l

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU024515.D

Acq: 13 Jun 2018 18:08

Instrument :

MSVOA_U

ClientSampleId :

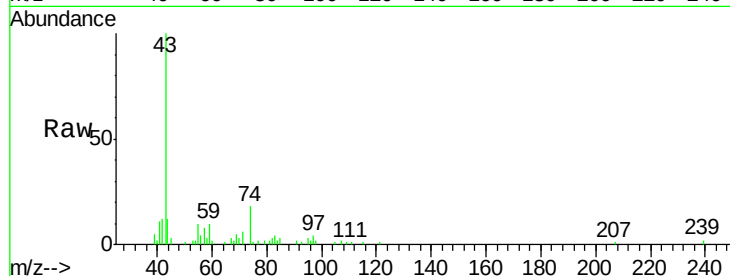
PB110190ZHE#14

Tgt Ion: 43 Resp: 16792

Ion Ratio Lower Upper

43 100

74 22.0 18.0 27.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.62

10000

8000

6000

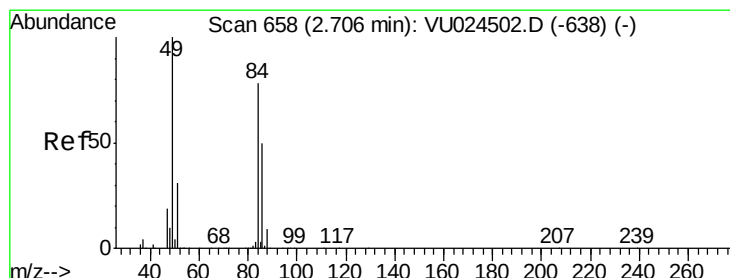
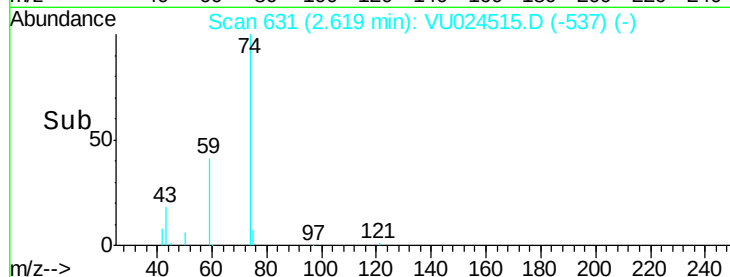
4000

2000

0

Time-->

2.55 2.60 2.65 2.70



#20

Methylene Chloride

Concen: 1.47 ug/l

RT: 2.71 min Scan# 658

Delta R.T. -0.00 min

Lab File: VU024515.D

Acq: 13 Jun 2018 18:08

Tgt Ion: 84 Resp: 3757

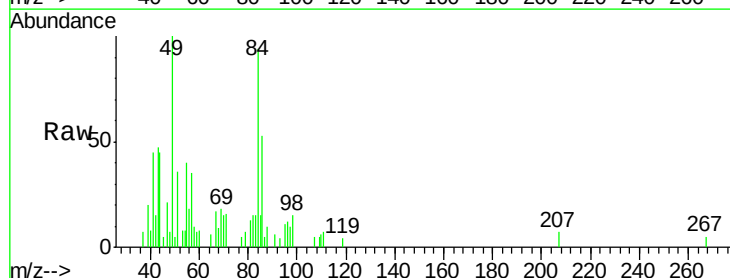
Ion Ratio Lower Upper

84 100

49 113.3 103.8 155.8

51 41.0 32.0 48.0

86 60.0 51.6 77.4



Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0

3000

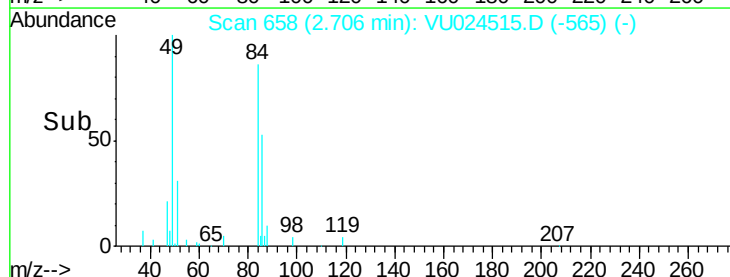
2000

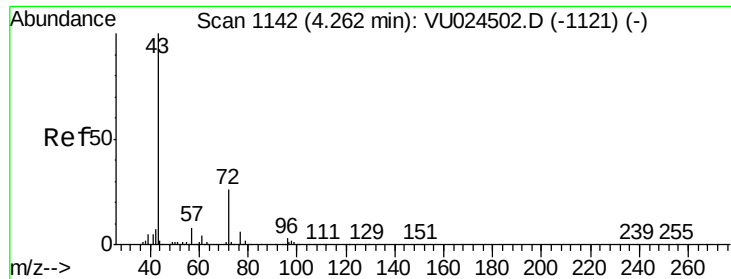
1000

0

Time-->

2.65 2.70 2.75

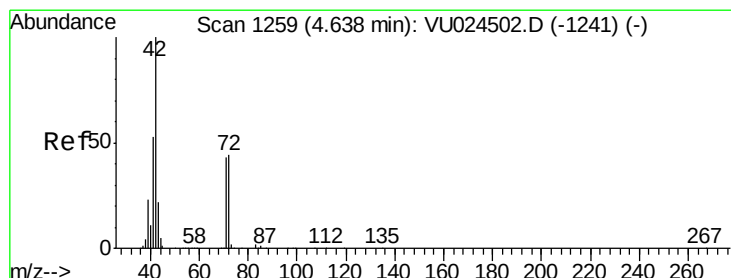
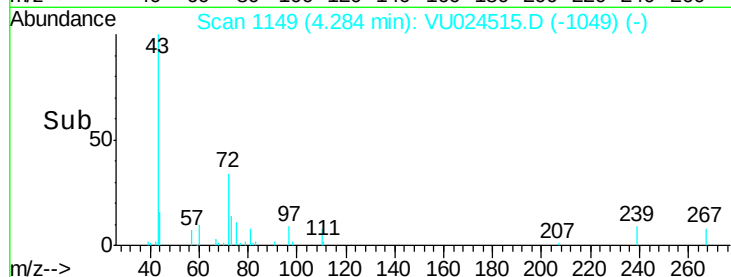
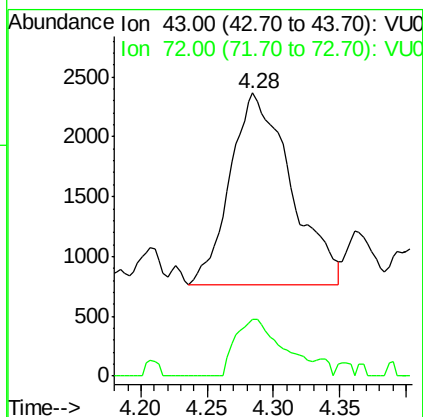
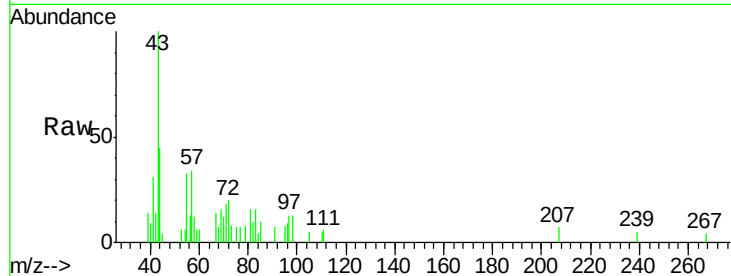




#25
2-Butanone
Concen: 2.35 ug/l
RT: 4.28 min Scan# 1149
Delta R.T. 0.02 min
Lab File: VU024515.D
Acq: 13 Jun 2018 18:08

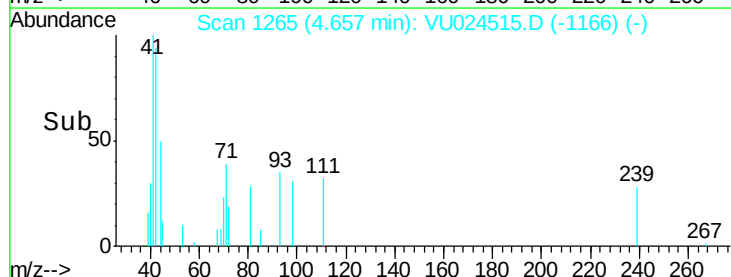
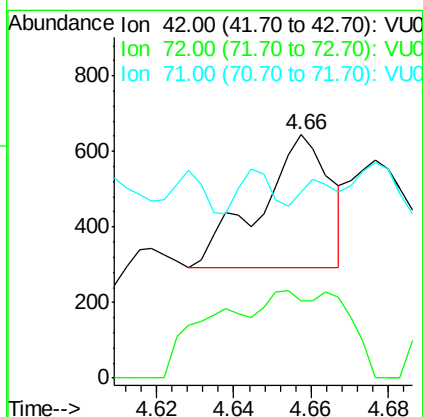
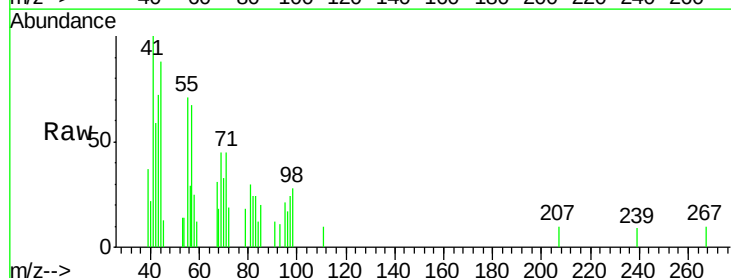
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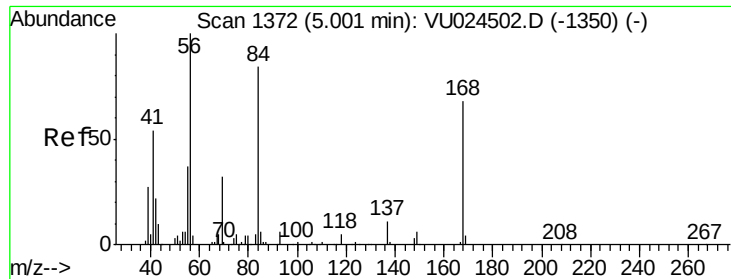
Tgt Ion: 43 Resp: 5142
Ion Ratio Lower Upper
43 100
72 29.5 19.6 29.4#



#29
Tetrahydrofuran
Concen: 0.33 ug/l
RT: 4.66 min Scan# 1265
Delta R.T. 0.02 min
Lab File: VU024515.D
Acq: 13 Jun 2018 18:08

Tgt Ion: 42 Resp: 442
Ion Ratio Lower Upper
42 100
72 11.3 34.5 51.7#
71 21.9 32.2 48.4#

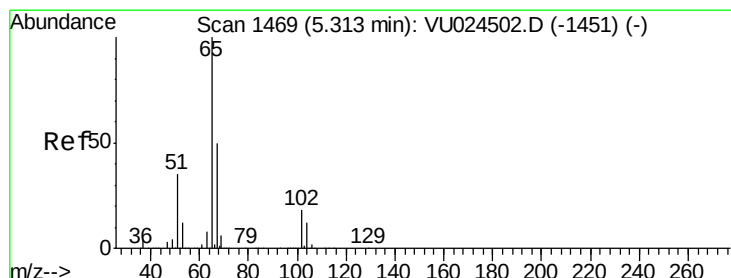
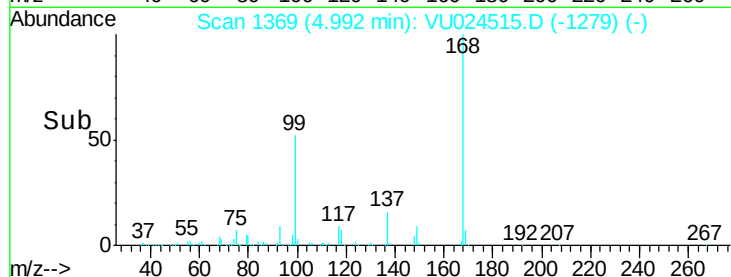
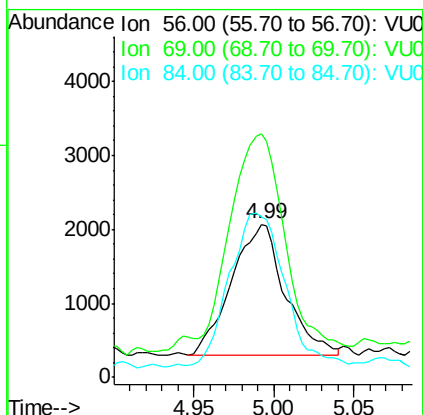
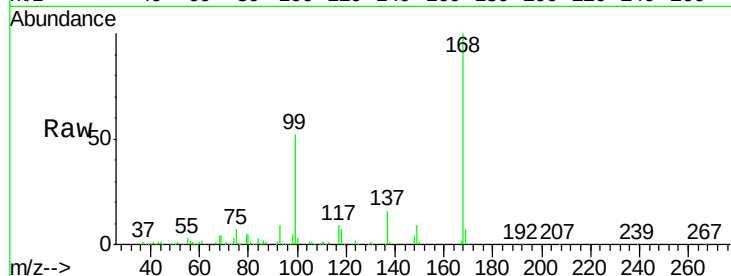




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1369
Delta R.T. -0.01 min
Lab File: VU024515.D
Acq: 13 Jun 2018 18:08

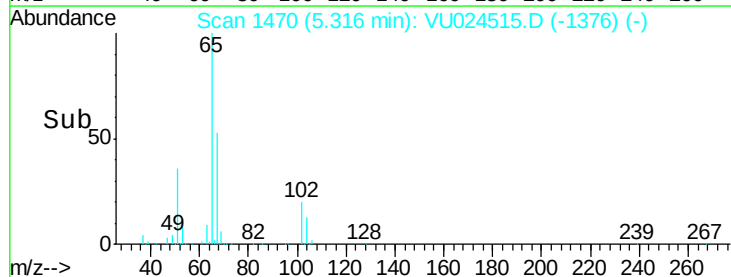
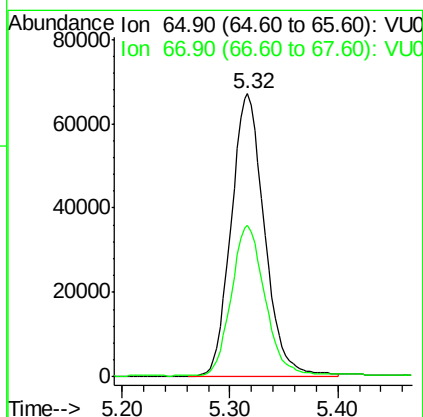
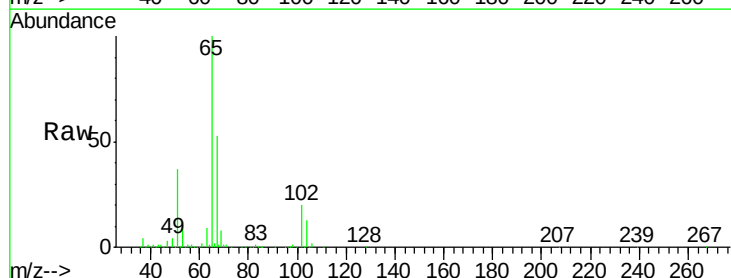
Instrument :
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PB110190ZHE#14

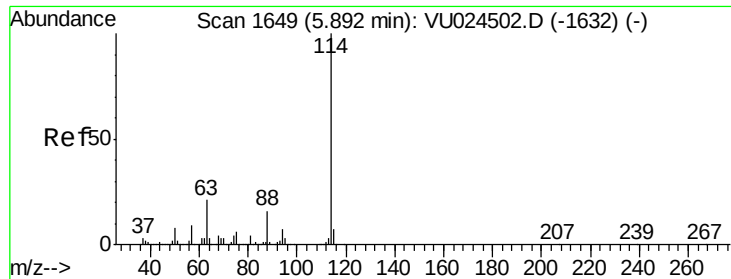
Tgt Ion: 56 Resp: 4100
Ion Ratio Lower Upper
56 100
69 158.7 24.8 37.2#
84 112.9 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 47.97 ug/l
RT: 5.32 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VU024515.D
Acq: 13 Jun 2018 18:08

Tgt Ion: 65 Resp: 145182
Ion Ratio Lower Upper
65 100
67 52.4 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU024515.D

Acq: 13 Jun 2018 18:08

Instrument :

MSVOA_U

ClientSampleId :

PB110190ZHE#14

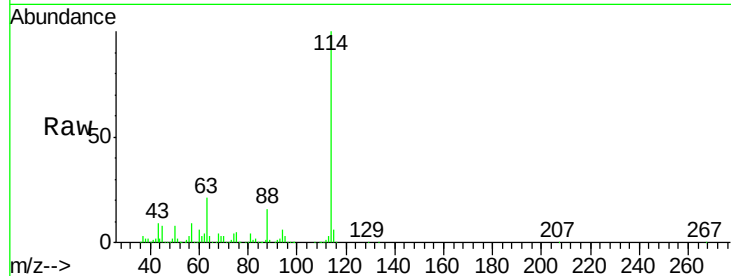
Tgt Ion:114 Resp: 315275

Ion Ratio Lower Upper

114 100

63 21.2 0.0 45.4

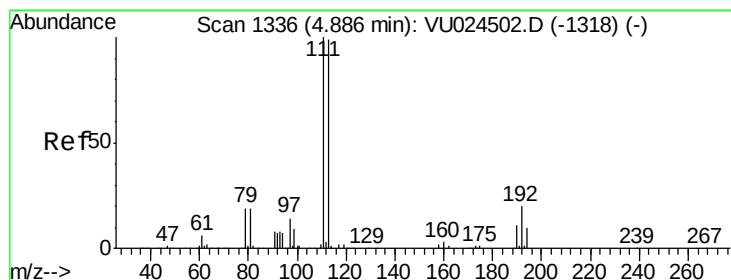
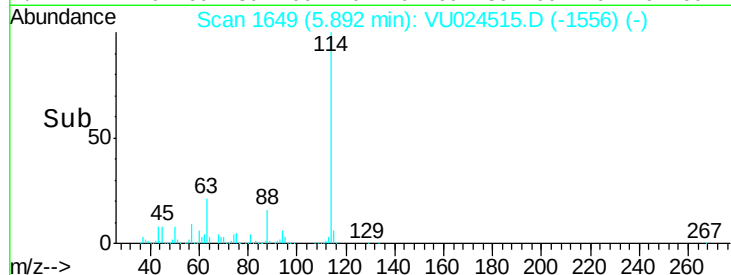
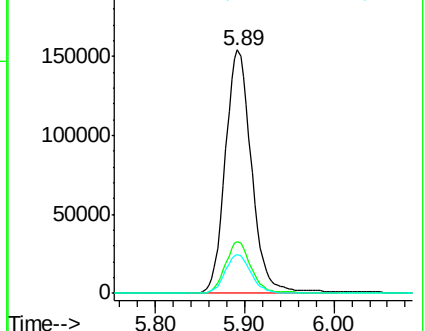
88 16.1 0.0 31.0



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: 48.24 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024515.D

Acq: 13 Jun 2018 18:08

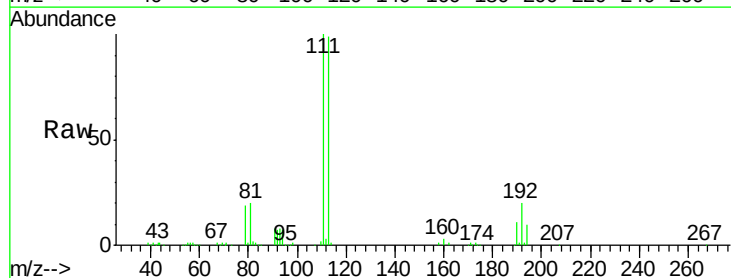
Tgt Ion:113 Resp: 126215

Ion Ratio Lower Upper

113 100

111 102.5 82.2 123.4

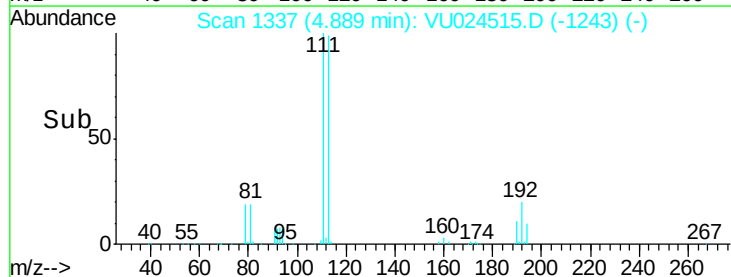
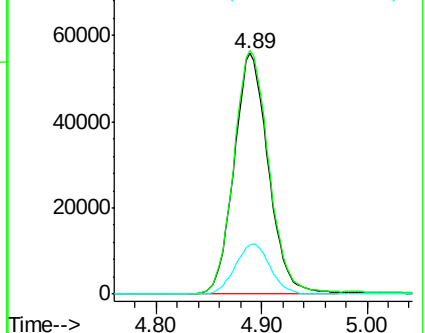
192 21.2 16.2 24.4

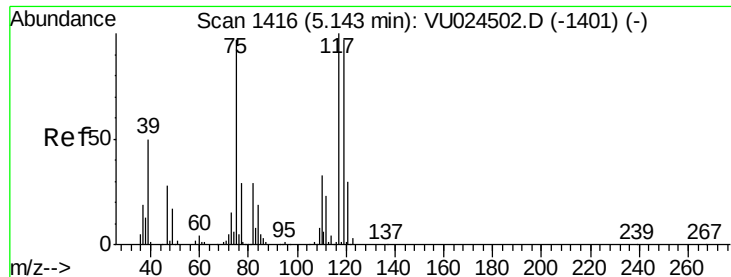


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

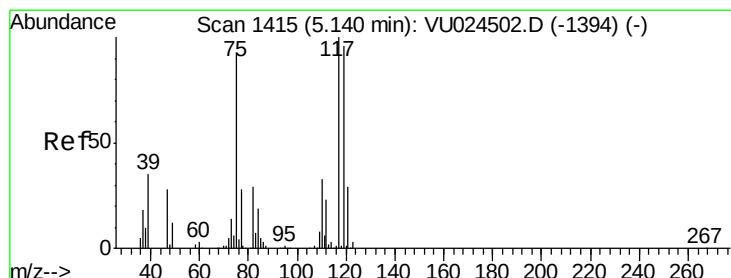
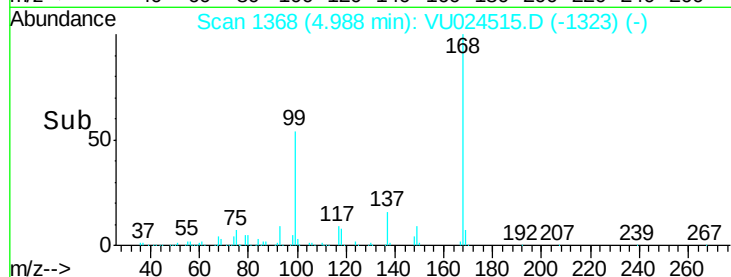
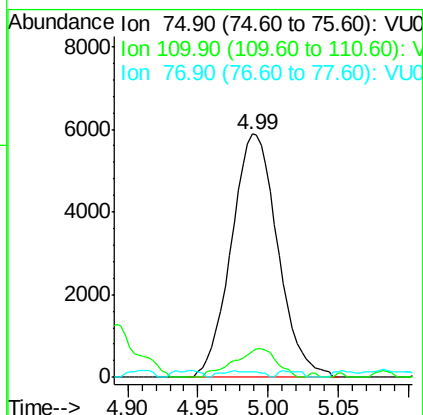
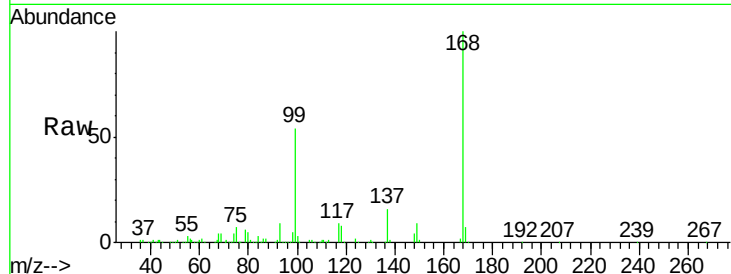




#36
 1,1-Dichloropropene
 Concen: 3.65 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024515.D
 Acq: 13 Jun 2018 18:08

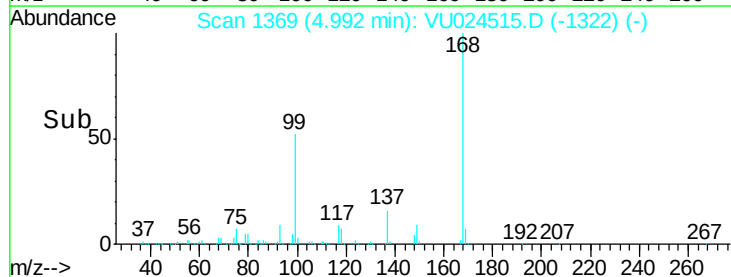
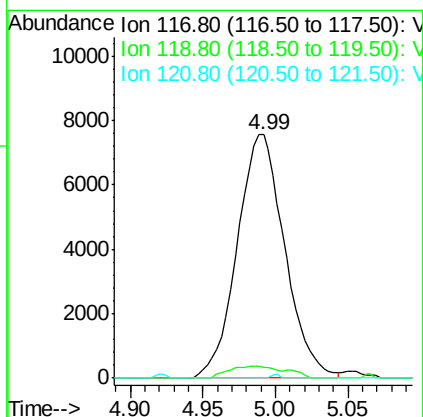
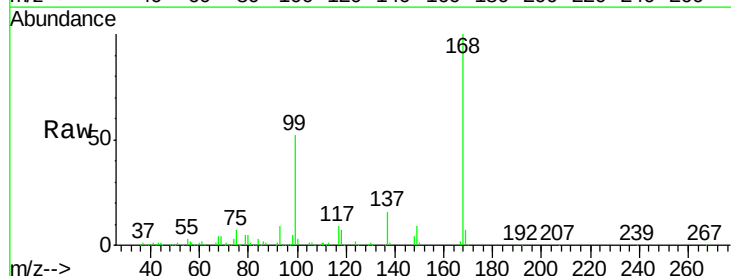
Instrument :
 MSVOA_U
 ClientSampleId :
 PB110190ZHE#14

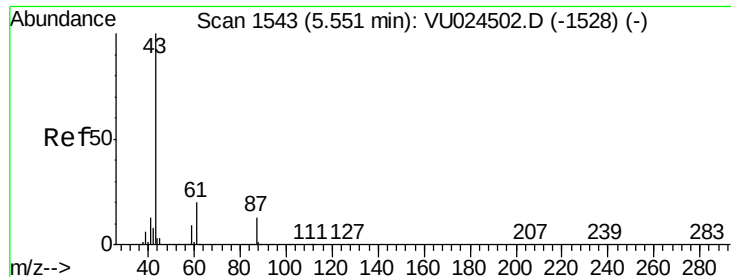
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	17.0	50.9#
77	2.1	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 4.22 ug/l
 RT: 4.99 min Scan# 1369
 Delta R.T. -0.15 min
 Lab File: VU024515.D
 Acq: 13 Jun 2018 18:08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	76.1	114.1#
121	0.0	23.7	35.5#





#43

Isopropyl Acetate

Concen: 6.83 ug/l

RT: 5.79 min Scan# 1618

Delta R.T. 0.24 min

Lab File: VU024515.D

Acq: 13 Jun 2018 18:08

Instrument :

MSVOA_U

ClientSampleId :

PB110190ZHE#14

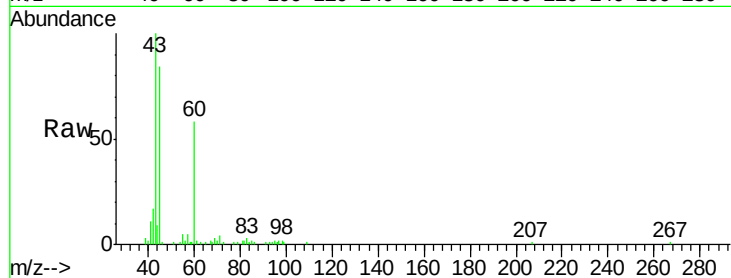
Tgt Ion: 43 Resp: 47676

Ion Ratio Lower Upper

43 100

61 0.9 15.4 23.0#

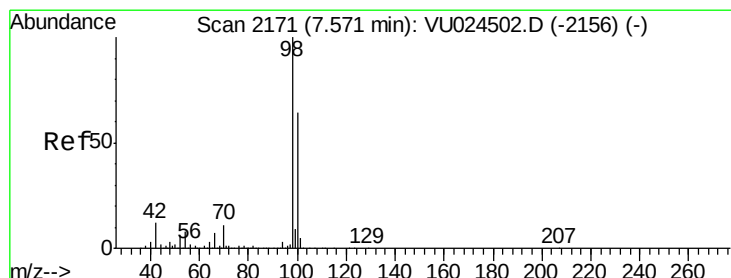
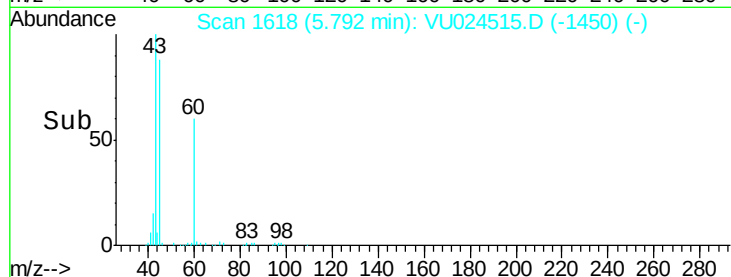
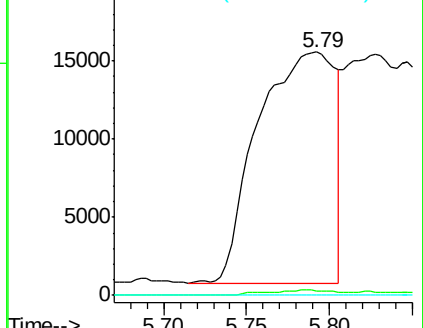
87 0.0 10.0 15.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#50

Toluene-d8

Concen: 48.70 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU024515.D

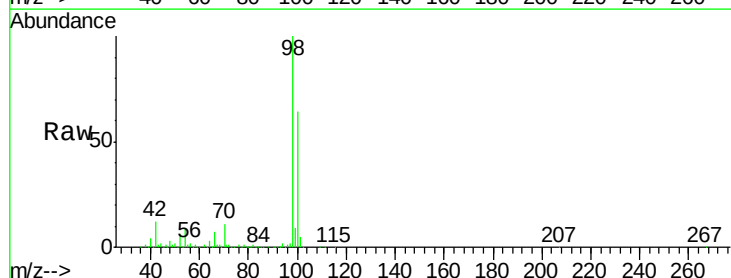
Acq: 13 Jun 2018 18:08

Tgt Ion: 98 Resp: 464778

Ion Ratio Lower Upper

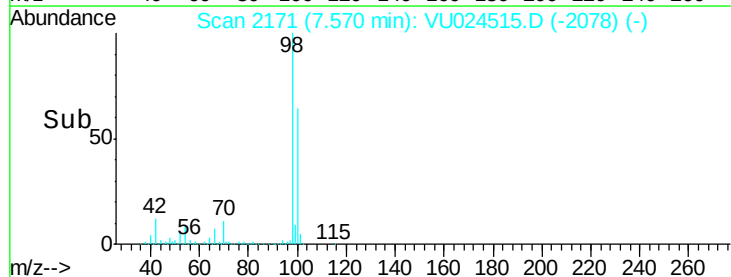
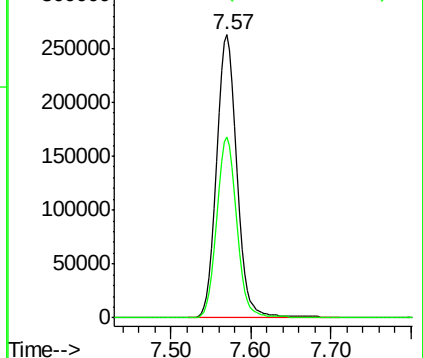
98 100

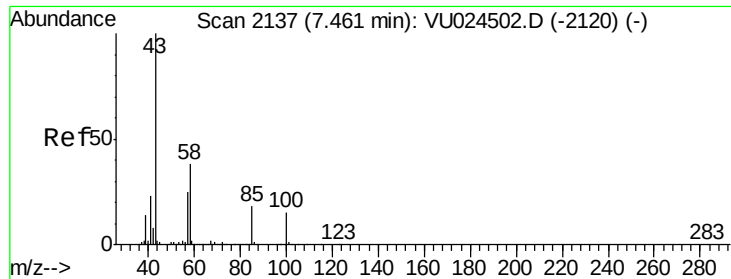
100 63.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0

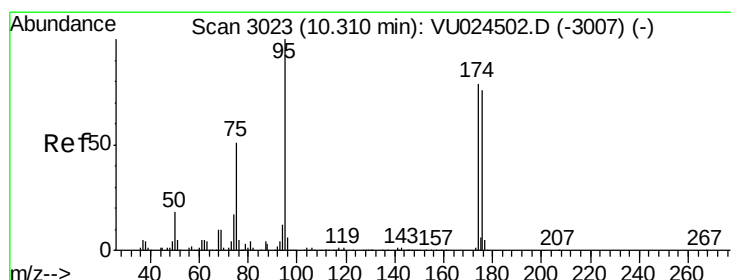
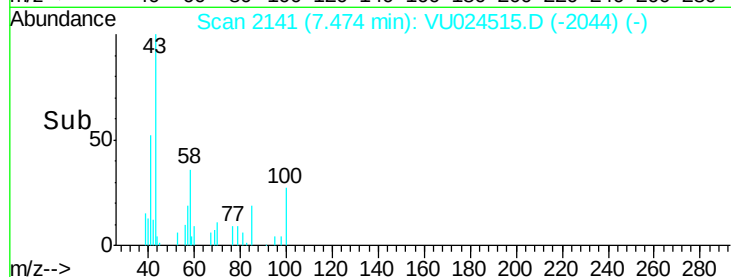
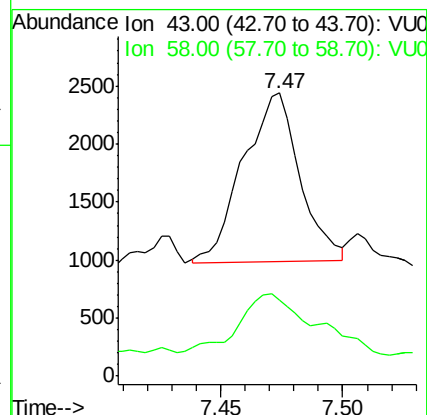
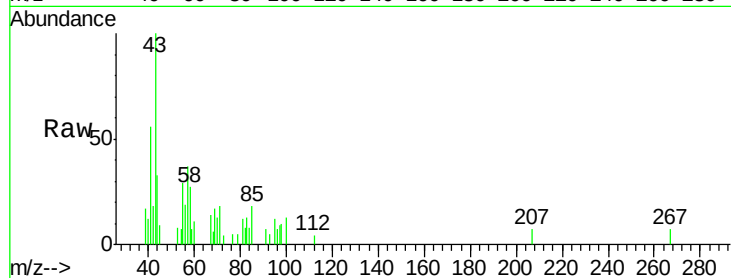




#51
 4-Methyl-2-Pentanone
 Concen: 0.54 ug/l
 RT: 7.47 min Scan# 2141
 Delta R.T. 0.01 min
 Lab File: VU024515.D
 Acq: 13 Jun 2018 18:08

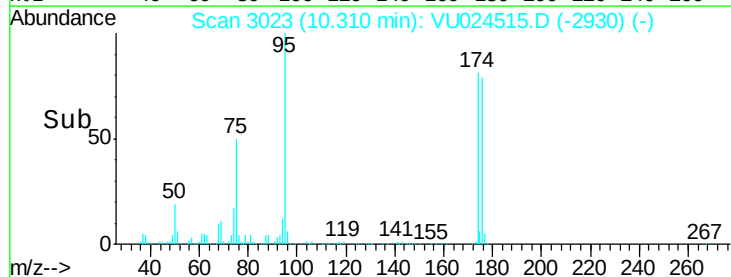
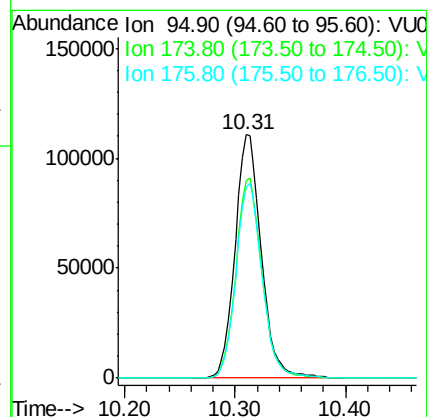
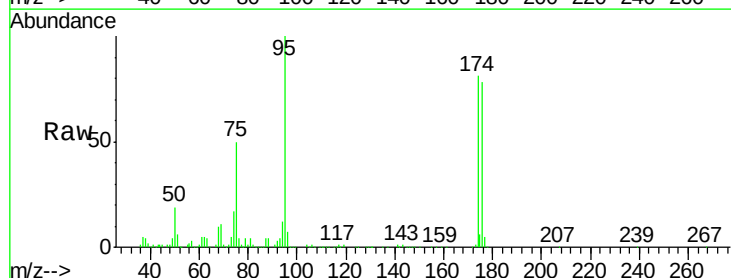
Instrument :
 MSVOA_U
 ClientSampleId :
 PB110190ZHE#14

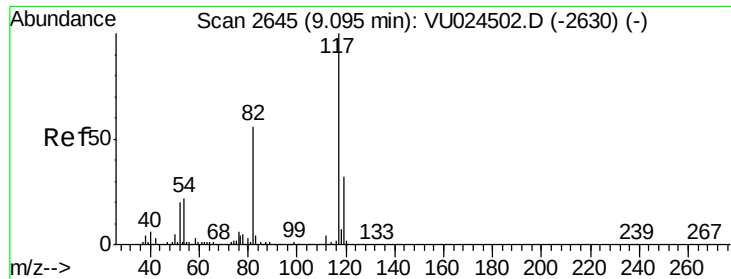
Tgt Ion: 43 Resp: 2349
 Ion Ratio Lower Upper
 43 100
 58 49.2 30.0 45.0#



#62
 4-Bromofluorobenzene
 Concen: 47.91 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.00 min
 Lab File: VU024515.D
 Acq: 13 Jun 2018 18:08

Tgt Ion: 95 Resp: 181547
 Ion Ratio Lower Upper
 95 100
 174 82.7 0.0 165.8
 176 80.1 0.0 159.4

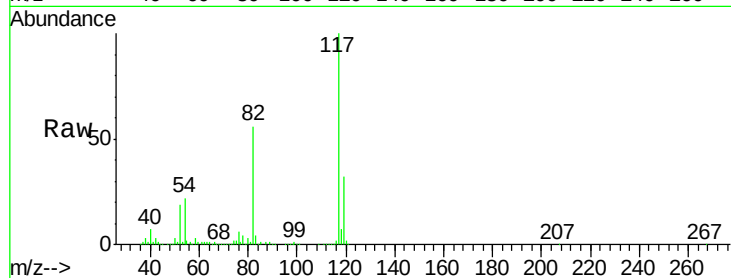




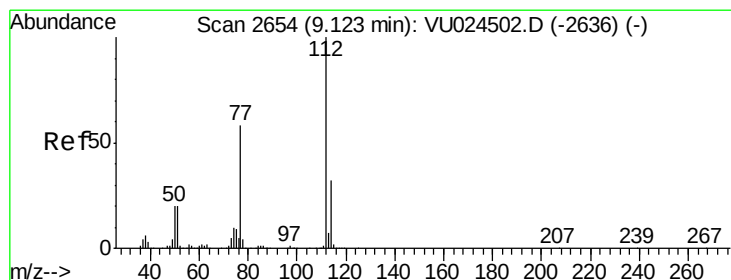
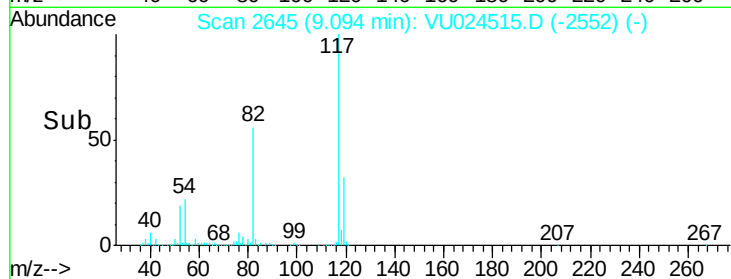
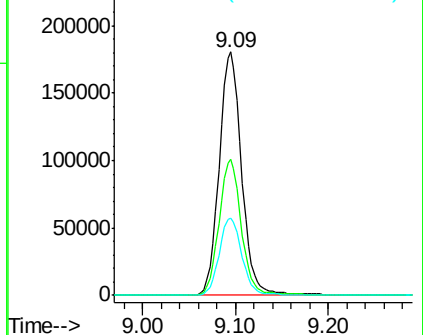
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU024515.D
Acq: 13 Jun 2018 18:08

Instrument :
MSVOA_U
ClientSampleId :
PB110190ZHE#14

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.9	44.3	66.5
119	32.0	25.4	38.2

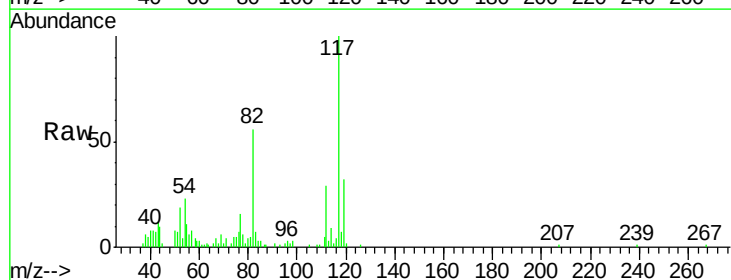


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

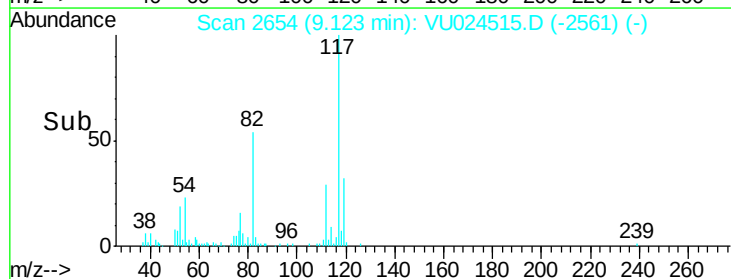
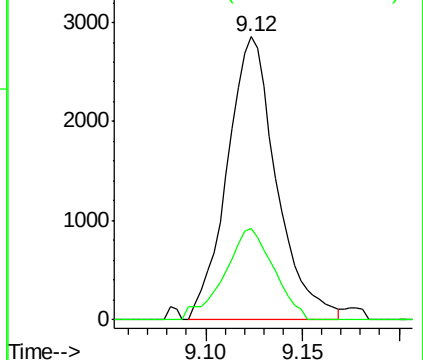


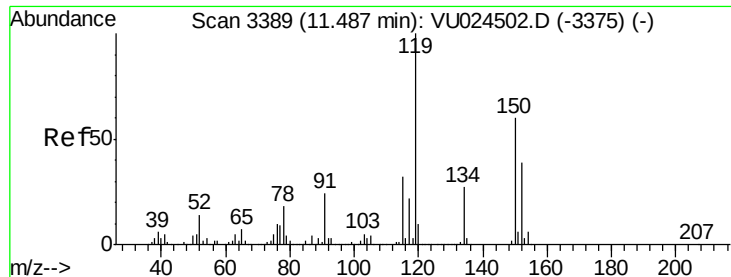
#65
Chlorobenzene
Concen: 0.65 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. -0.00 min
Lab File: VU024515.D
Acq: 13 Jun 2018 18:08

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.6	38.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): 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: VU024515.D

Acq: 13 Jun 2018 18:08

Instrument :

MSVOA_U

ClientSampleId :

PB110190ZHE#14

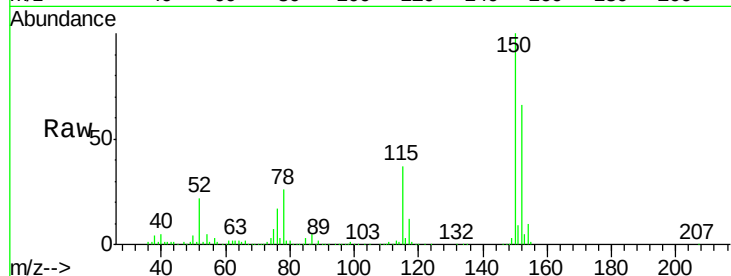
Tgt Ion:152 Resp: 179156

Ion Ratio Lower Upper

152 100

115 57.0 43.0 129.0

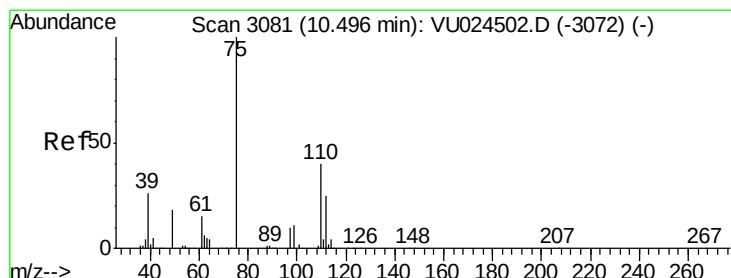
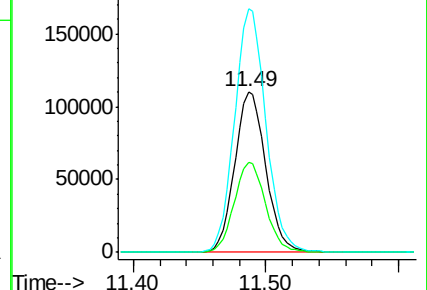
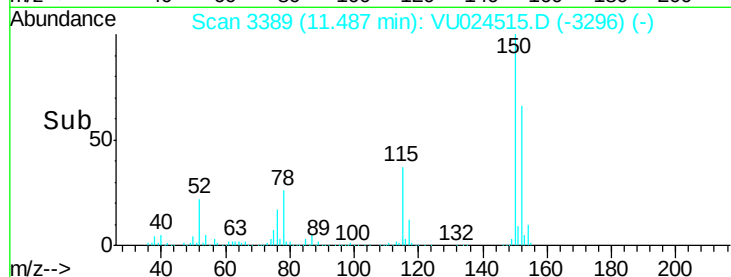
150 153.6 0.0 354.0



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: 23.27 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024515.D

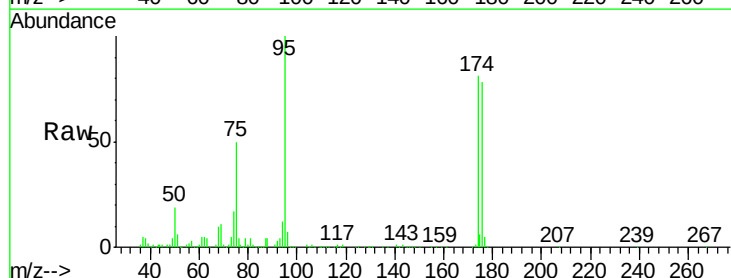
Acq: 13 Jun 2018 18:08

Tgt Ion: 75 Resp: 91782

Ion Ratio Lower Upper

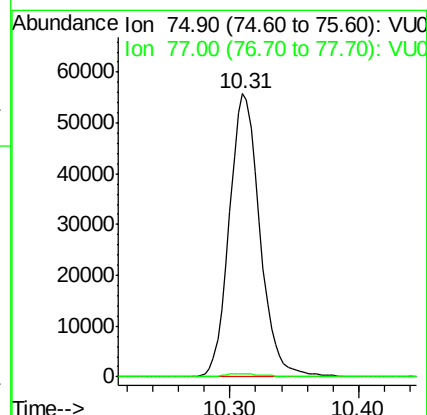
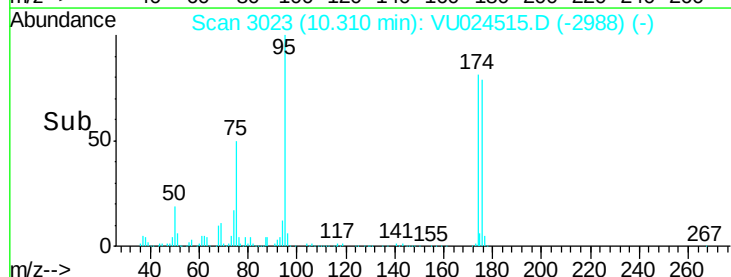
75 100

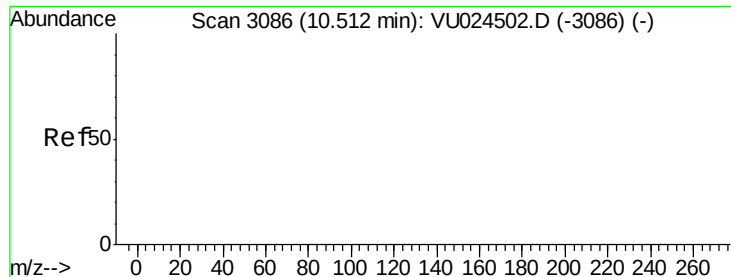
77 1.2 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

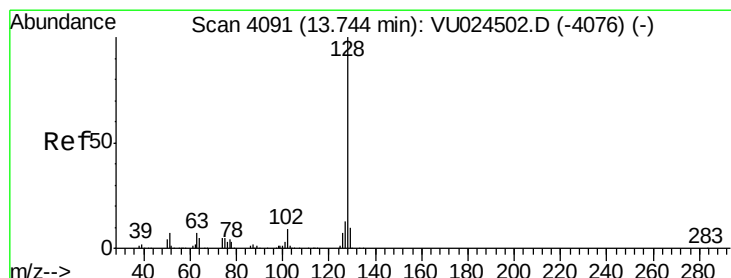
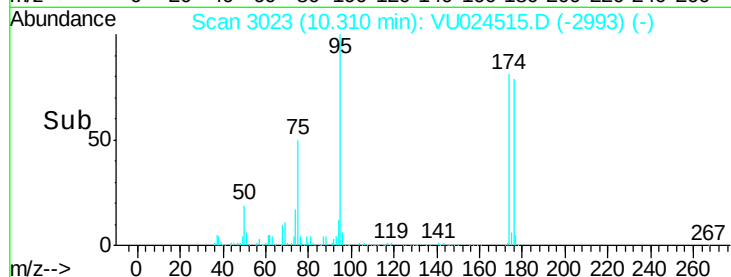
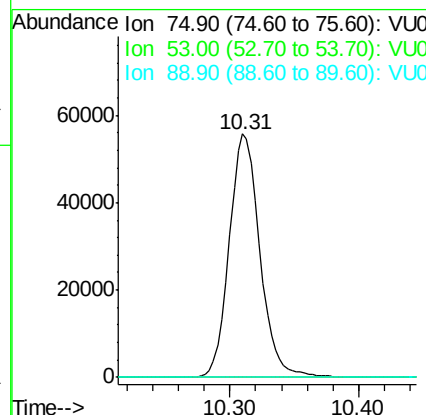
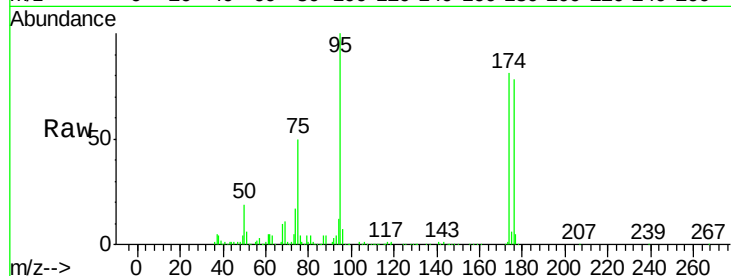




#81
trans-1,4-Dichloro-2-butene
Concen: 53.85 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.20 min
Lab File: VU024515.D
Acq: 13 Jun 2018 18:08

Instrument :
MSVOA_U
ClientSampleId :
PB110190ZHE#14

Tgt Ion: 75 Resp: 91782
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0#
89 0.0 0.0 0.0



#95
Naphthalene
Concen: 0.70 ug/l
RT: 13.76 min Scan# 4097
Delta R.T. 0.02 min
Lab File: VU024515.D
Acq: 13 Jun 2018 18:08

Tgt Ion: 128 Resp: 317
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 0.0 8.6 12.8#

