

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062518\
 Data File : VU024902.D
 Acq On : 26 Jun 2018 02:38
 Operator : MD/SY
 Sample : J3669-07ME 20X
 Misc : 5.94g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 26 05:41:28 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	228132	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	348867	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	317434	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	173188	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	170510	45.78	ug/l	0.00
Spiked Amount			Recovery	=	91.56%	
35) Dibromofluoromethane	4.89	113	133061	45.96	ug/l	0.00
Spiked Amount			Recovery	=	91.92%	
50) Toluene-d8	7.57	98	499276	47.28	ug/l	0.00
Spiked Amount			Recovery	=	94.56%	
62) 4-Bromofluorobenzene	10.31	95	186697	44.52	ug/l	0.00
Spiked Amount			Recovery	=	89.04%	

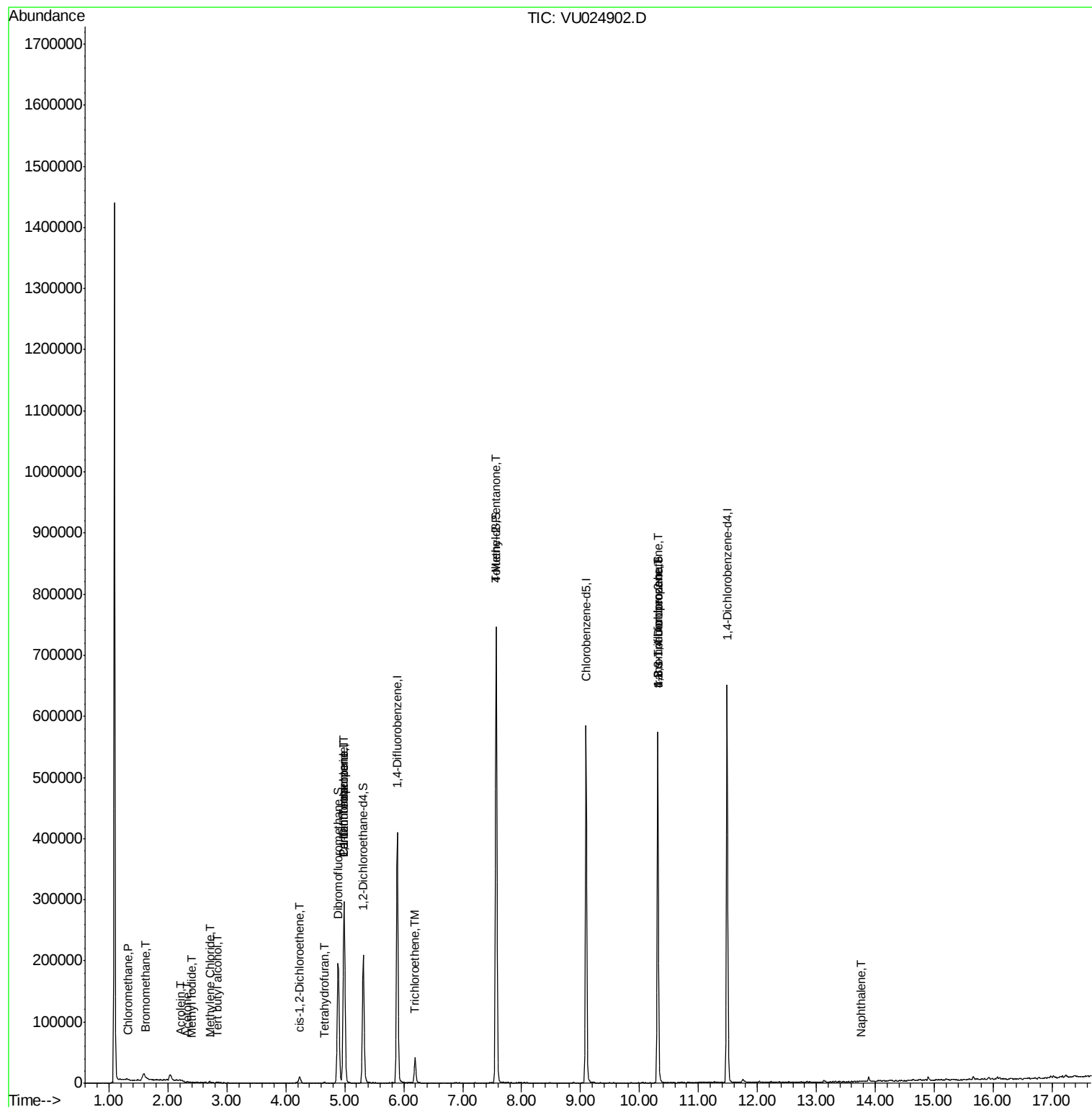
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	590	0.20	ug/l	# 66
5) Bromomethane	1.63	94	804	0.55	ug/l	# 86
6) Chloroethane	1.70	64	56	Below Cal	#	43
8) Diethyl Ether	2.15	74	21	Below Cal	#	1
10) Methyl Iodide	2.41	142	215	5.37	ug/l	# 40
11) Tert butyl alcohol	2.84	59	579	0.64	ug/l	# 72
13) Acrolein	2.21	56	253	0.53	ug/l	# 38
16) Acetone	2.33	43	826	0.41	ug/l	# 94
20) Methylene Chloride	2.71	84	849	0.27	ug/l	# 76
27) cis-1,2-Dichloroethene	4.23	96	5688	1.73	ug/l	# 84
29) Tetrahydrofuran	4.66	42	354	0.21	ug/l	# 34
31) Cyclohexane	4.99	56	4740	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	16930	4.13	ug/l	# 49
38) Carbon Tetrachloride	4.99	117	22282	4.94	ug/l	# 15
44) Trichloroethene	6.19	130	14661	4.41	ug/l	# 89
51) 4-Methyl-2-Pentanone	7.56	43	2521	0.52	ug/l	# 1
76) 1,2,3-Trichloropropane	10.31	75	95553	25.06	ug/l	# 35
81) trans-1,4-Dichloro-2-buten	10.31	75	95553	58.00	ug/l	# 100
95) Naphthalene	13.76	128	372	0.71	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
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: VU024902.D

Acq: 26 Jun 2018 02:38

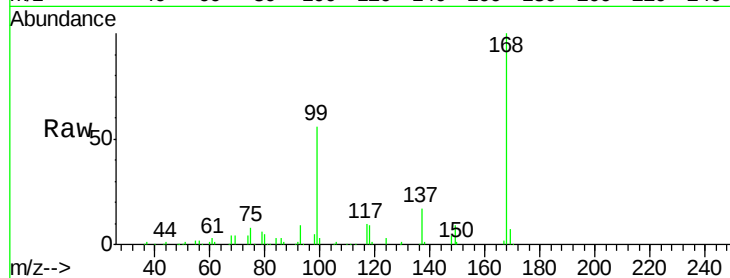
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 228132

Ion Ratio Lower Upper

168 100

99 55.8 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024902.D (-1351) (-)

Ion 98.90 (98.60 to 99.60): VU024902.D (-1351) (-)

4.99

120000

100000

80000

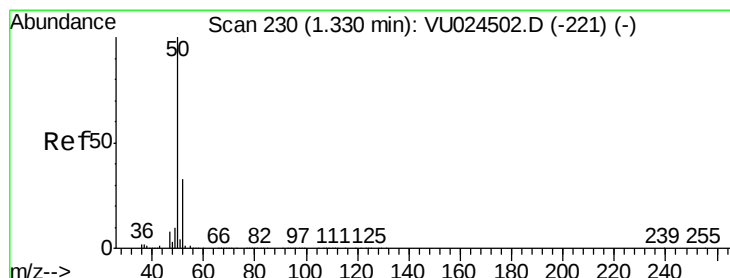
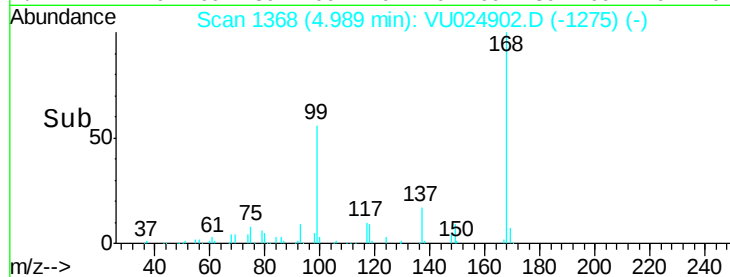
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.20 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024902.D

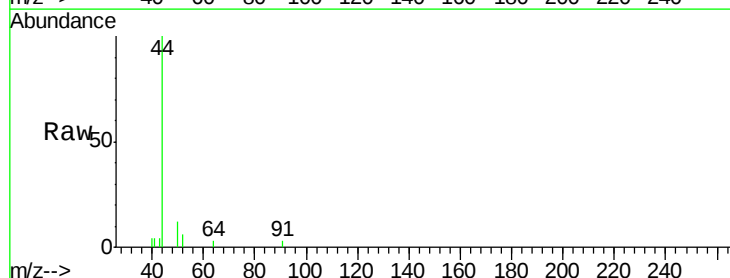
Acq: 26 Jun 2018 02:38

Tgt Ion: 50 Resp: 590

Ion Ratio Lower Upper

50 100

52 52.4 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU024902.D (-137) (-)

Ion 51.90 (51.60 to 52.60): VU024902.D (-137) (-)

1.33

600

500

400

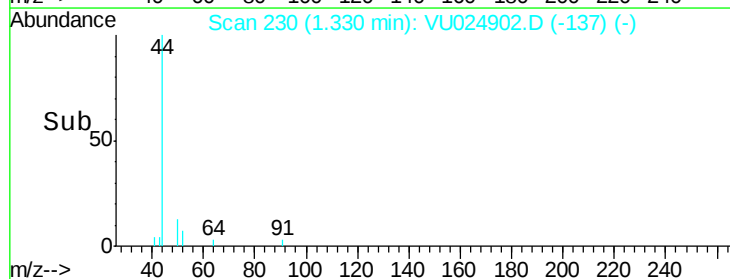
300

200

100

0

Time-->





#5

Bromomethane

Concen: 0.55 ug/l

RT: 1.63 min Scan# 322

Delta R.T. 0.00 min

Lab File: VU024902.D

Acq: 26 Jun 2018 02:38

Instrument :

MSVOA_U

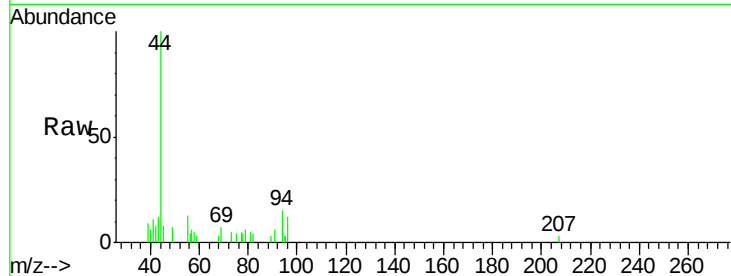
ClientSampled :

Tot Ion: 94 Resp: 804

Ion Ratio Lower Upper

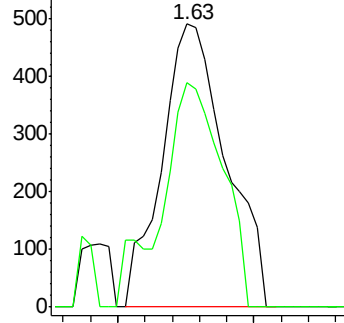
94 100

96 79.2 74.5 111.7

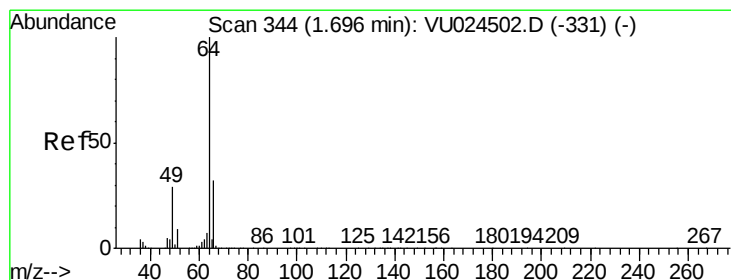
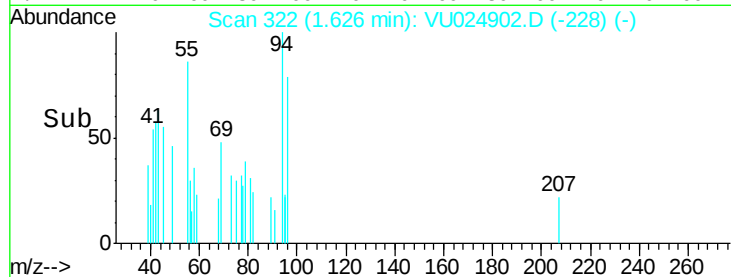


Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU024902.D

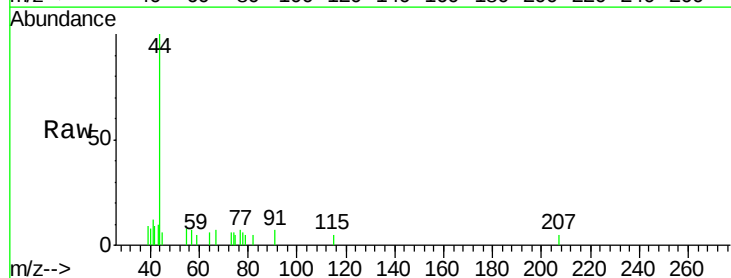
Acq: 26 Jun 2018 02:38

Tgt Ion: 64 Resp: 56

Ion Ratio Lower Upper

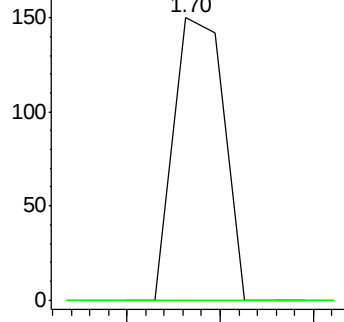
64 100

66 0.0 25.5 38.3#

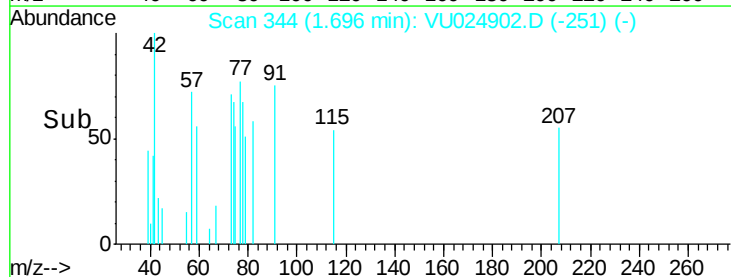


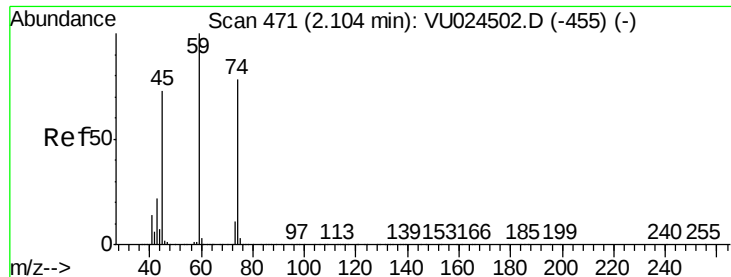
Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



Time-->





#8

Diethyl Ether

Concen: Below Cal

RT: 2.15 min Scan# 484

Delta R.T. 0.04 min

Lab File: VU024902.D

Acq: 26 Jun 2018 02:38

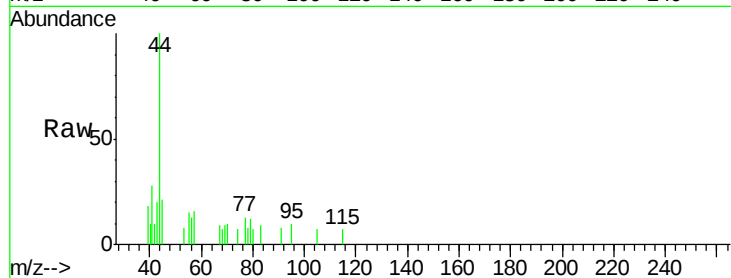
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 74 Resp: 21

Ion Ratio Lower Upper

74 100

45 0.0 55.0 165.0#



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0

400

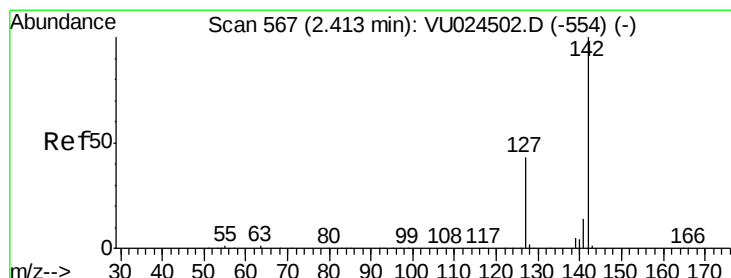
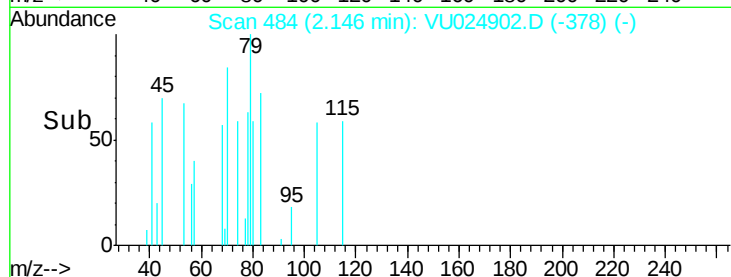
300

200

100

0

Time--> 2.13 2.14 2.15 2.15 2.15



#10

Methyl Iodide

Concen: 5.37 ug/l

RT: 2.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VU024902.D

Acq: 26 Jun 2018 02:38

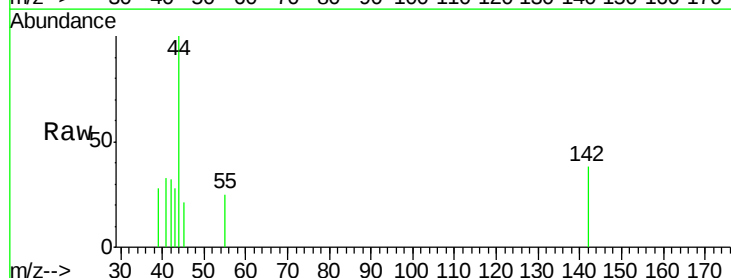
Tgt Ion: 142 Resp: 215

Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

141 0.0 11.7 17.5#



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

250

200

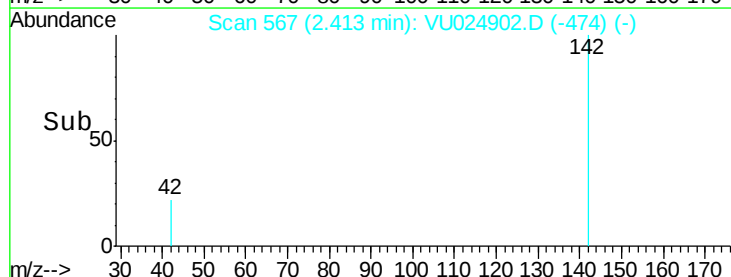
150

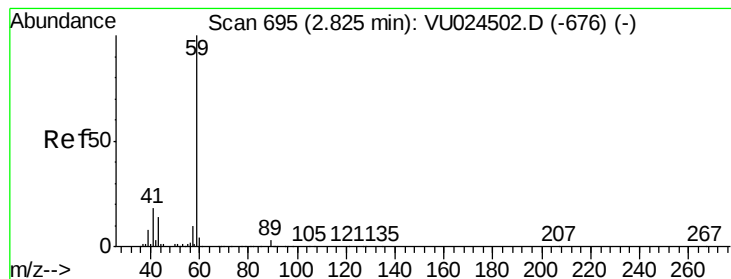
100

50

0

Time--> 2.40 2.42 2.44



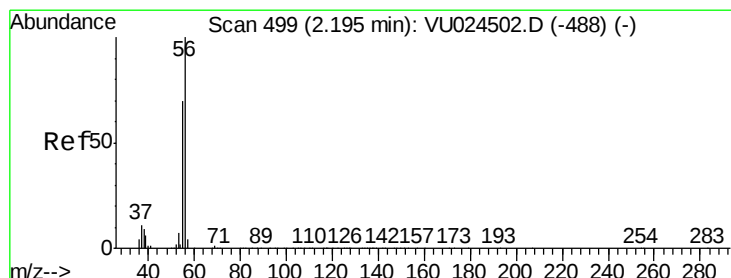
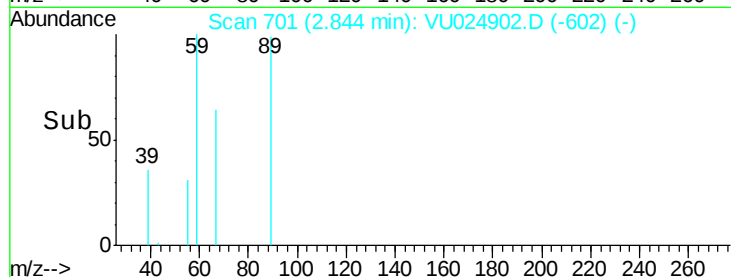
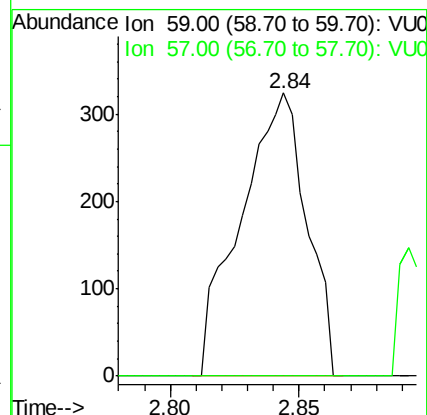
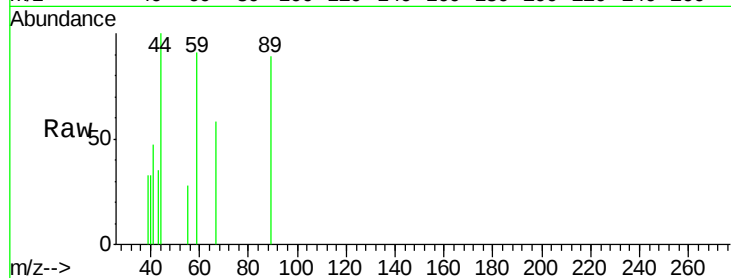


#11

Tert butyl alcohol
 Concen: 0.64 ug/l
 RT: 2.84 min Scan# 701
 Delta R.T. 0.02 min
 Lab File: VU024902.D
 Acq: 26 Jun 2018 02:38

Instrument :
 MSVOA_U
 ClientSampled :

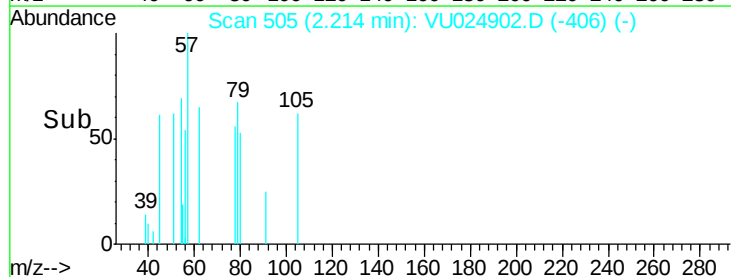
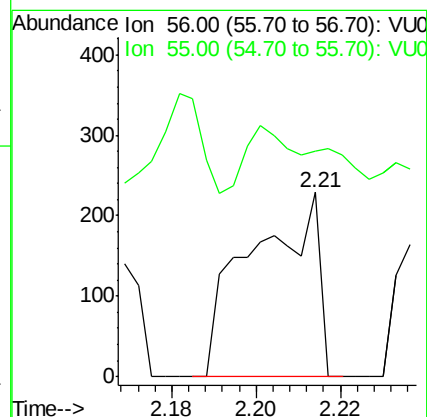
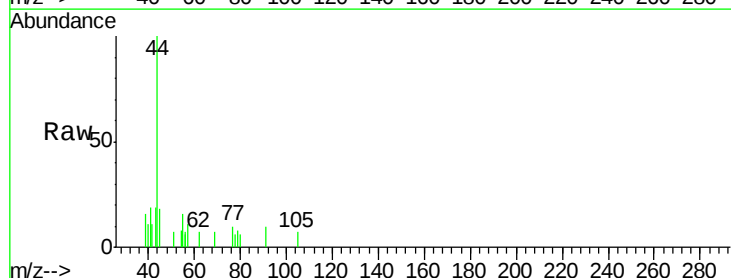
Tot Ion: 59 Resp: 579
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

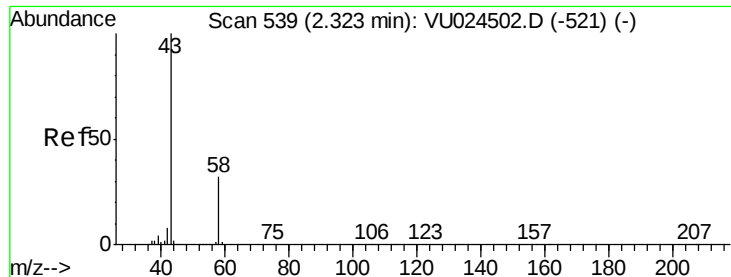


#13

Acrolein
 Concen: 0.53 ug/l
 RT: 2.21 min Scan# 505
 Delta R.T. 0.02 min
 Lab File: VU024902.D
 Acq: 26 Jun 2018 02:38

Tgt Ion: 56 Resp: 253
 Ion Ratio Lower Upper
 56 100
 55 20.9 58.4 87.6#





#16

Acetone

Concen: 0.41 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU024902.D

Acq: 26 Jun 2018 02:38

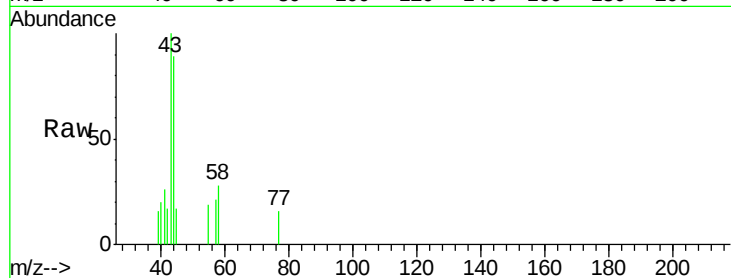
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 826

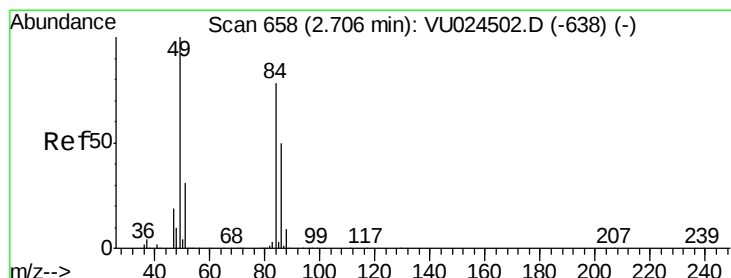
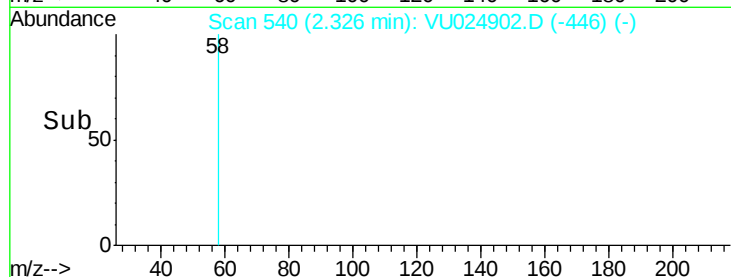
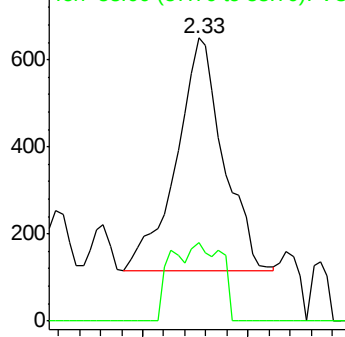
Ion Ratio Lower Upper

43 100

58 33.7 24.4 36.6



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



#20

Methylene Chloride

Concen: 0.27 ug/l

RT: 2.71 min Scan# 659

Delta R.T. 0.00 min

Lab File: VU024902.D

Acq: 26 Jun 2018 02:38

Tgt Ion: 84 Resp: 849

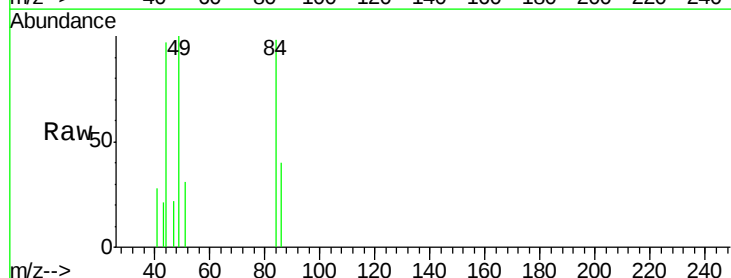
Ion Ratio Lower Upper

84 100

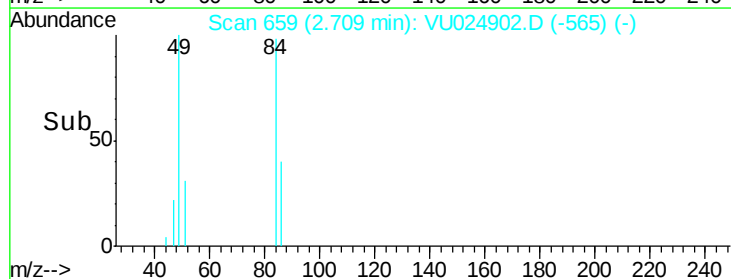
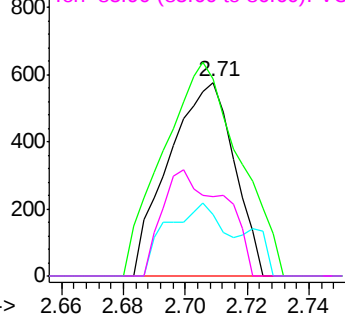
49 102.1 103.8 155.8#

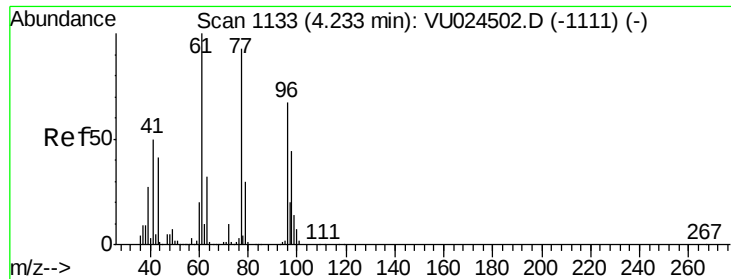
51 31.7 32.0 48.0#

86 41.2 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





#27

cis-1,2-Dichloroethene

Concen: 1.73 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VU024902.D

Acq: 26 Jun 2018 02:38

Instrument :
MSVOA_U
ClientSampleId :

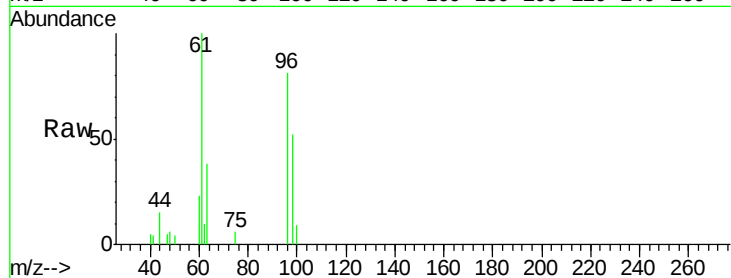
Tot Ion: 96 Resp: 5688

Ion Ratio Lower Upper

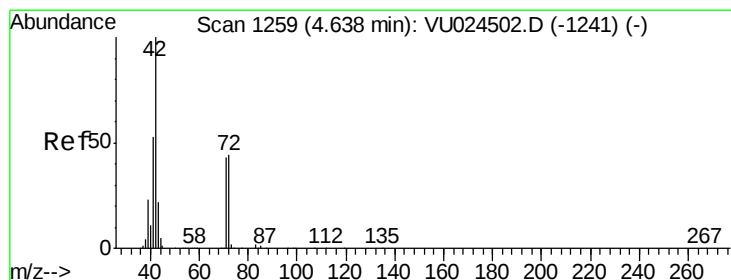
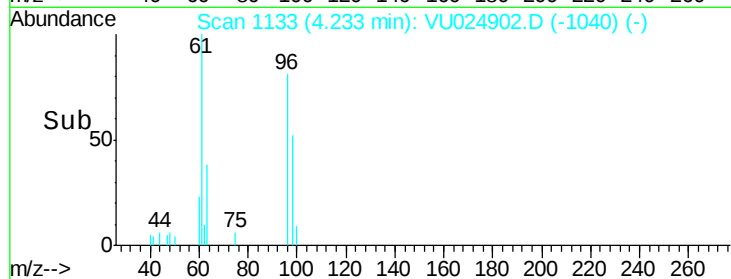
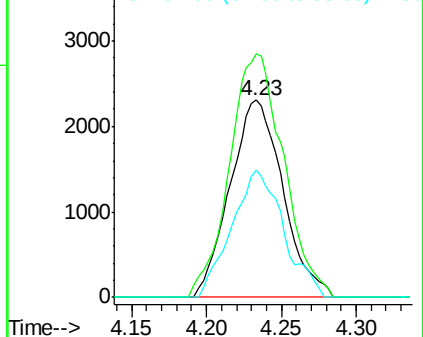
96 100

61 125.9 0.0 306.6

98 63.0 0.0 128.8



Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



#29

Tetrahydrofuran

Concen: 0.21 ug/l

RT: 4.66 min Scan# 1265

Delta R.T. 0.02 min

Lab File: VU024902.D

Acq: 26 Jun 2018 02:38

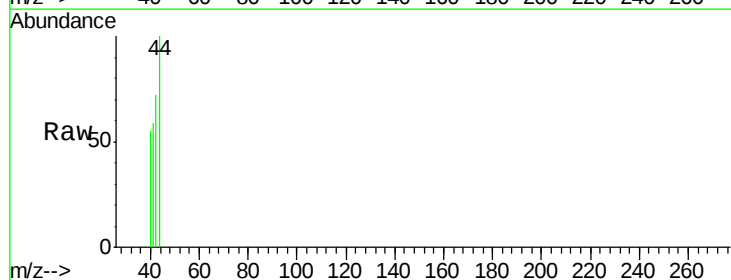
Tgt Ion: 42 Resp: 354

Ion Ratio Lower Upper

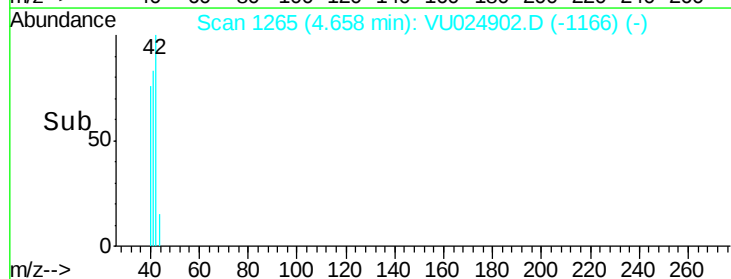
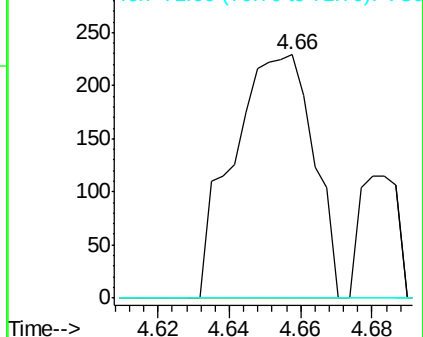
42 100

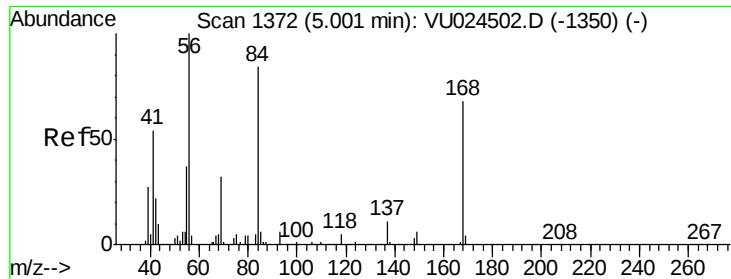
72 0.0 34.5 51.7#

71 0.0 32.2 48.4#



Abundance Ion 42.00 (41.70 to 42.70): VU0
Ion 72.00 (71.70 to 72.70): VU0
Ion 71.00 (70.70 to 71.70): VU0

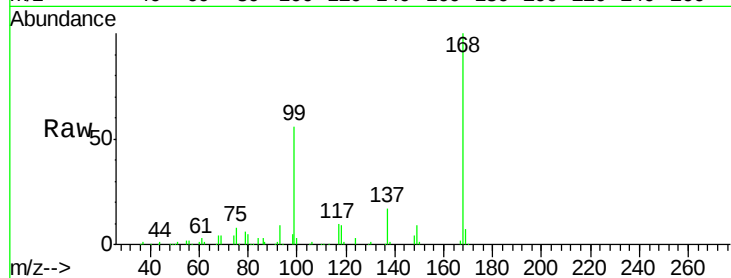




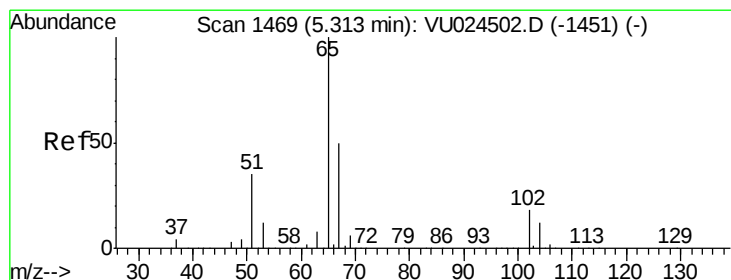
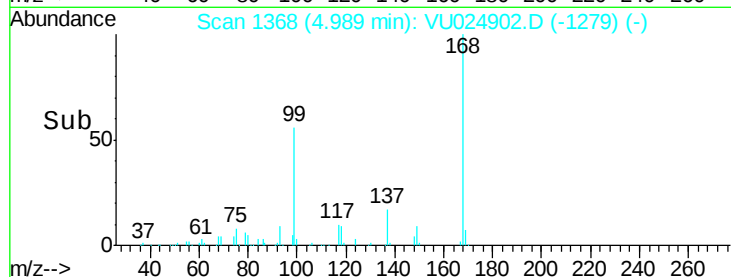
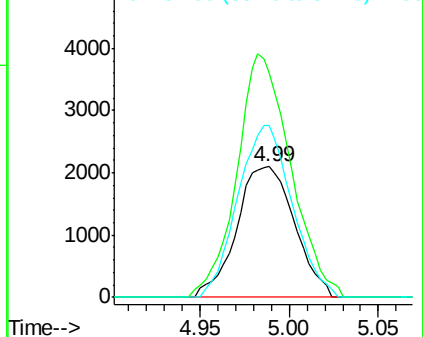
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU024902.D
Acq: 26 Jun 2018 02:38

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 4740
Ion Ratio Lower Upper
56 100
69 172.1 24.8 37.2#
84 131.3 65.2 97.8#

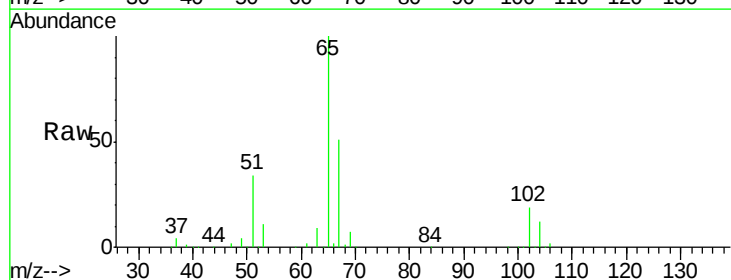


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

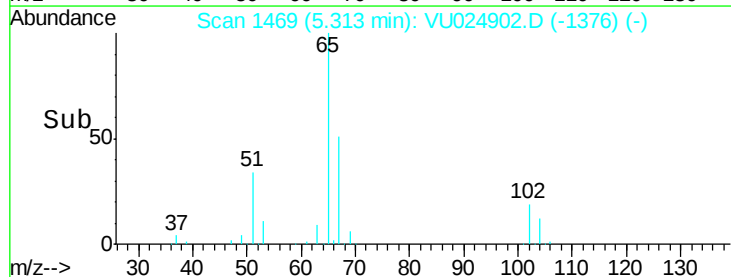
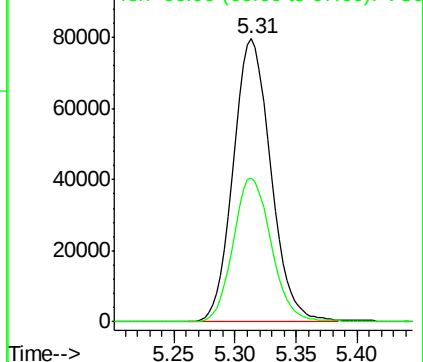


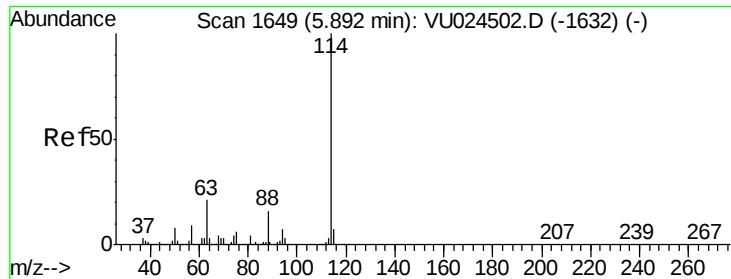
#33
1,2-Dichloroethane-d4
Concen: 45.78 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU024902.D
Acq: 26 Jun 2018 02:38

Tgt Ion: 65 Resp: 170510
Ion Ratio Lower Upper
65 100
67 51.5 0.0 107.0



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: VU024902.D

Acq: 26 Jun 2018 02:38

Instrument :

MSVOA_U

ClientSampleId :

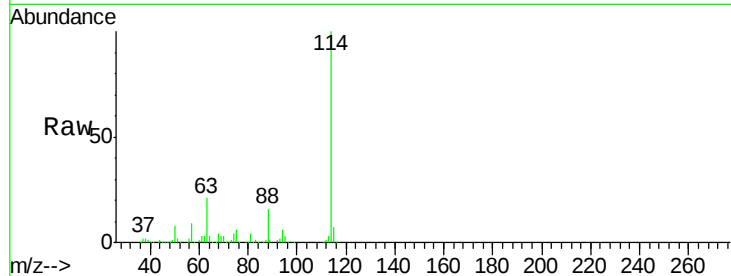
Tot Ion:114 Resp: 348867

Ion Ratio Lower Upper

114 100

63 20.6 0.0 45.4

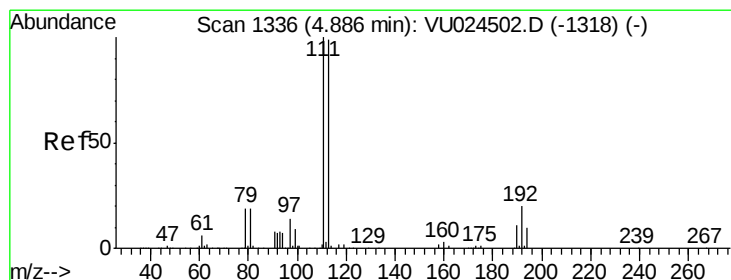
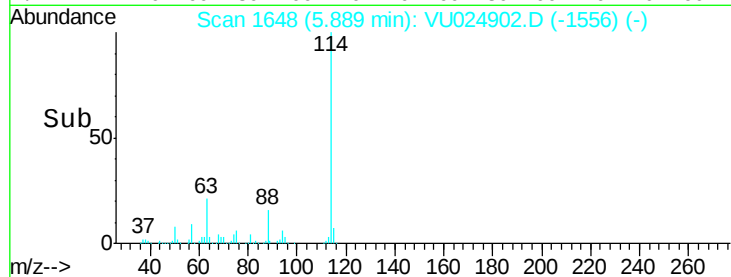
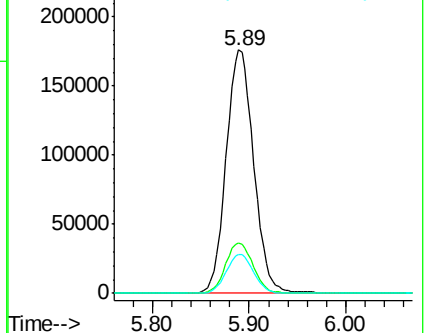
88 16.0 0.0 31.0



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: 45.96 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU024902.D

Acq: 26 Jun 2018 02:38

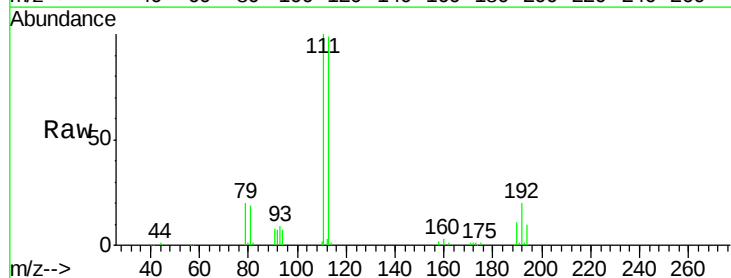
Tgt Ion:113 Resp: 133061

Ion Ratio Lower Upper

113 100

111 103.0 82.2 123.4

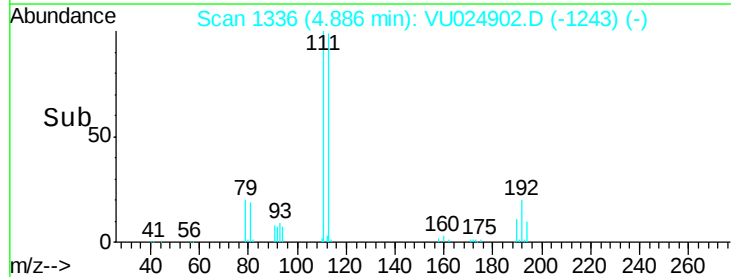
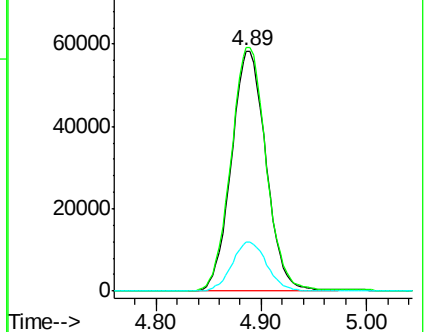
192 20.5 16.2 24.4

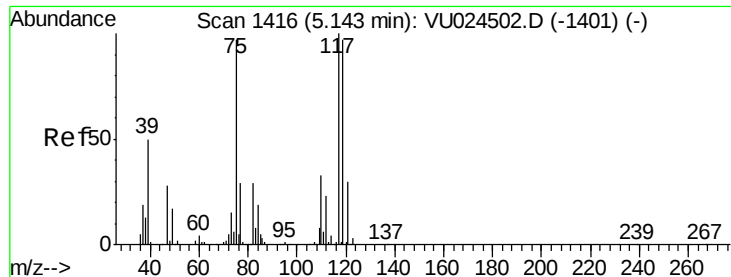


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

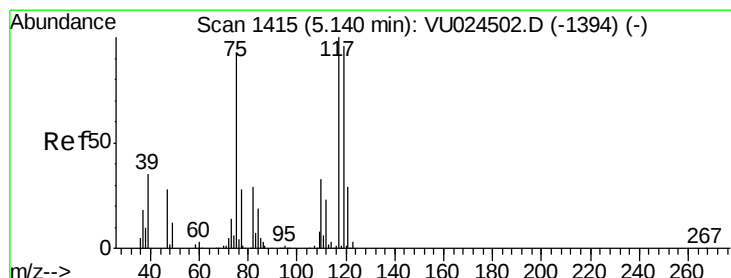
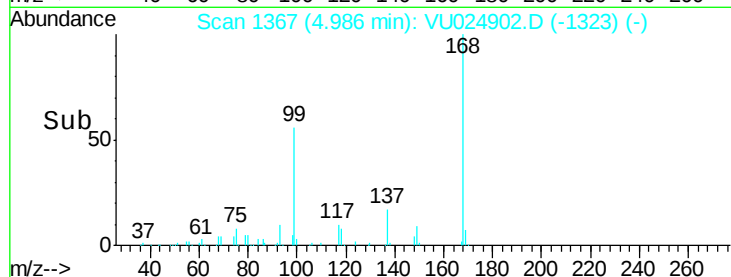
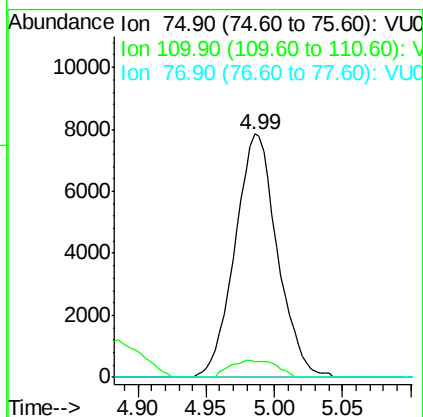
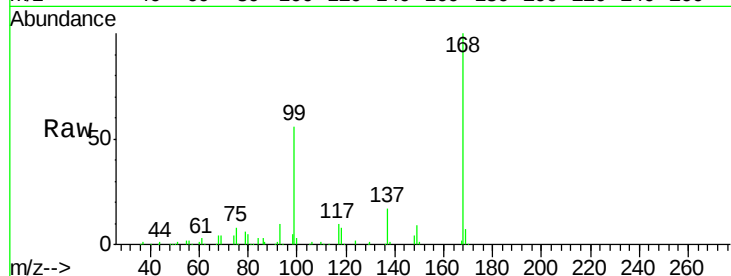




#36
 1,1-Dichloropropene
 Concen: 4.13 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU024902.D
 Acq: 26 Jun 2018 02:38

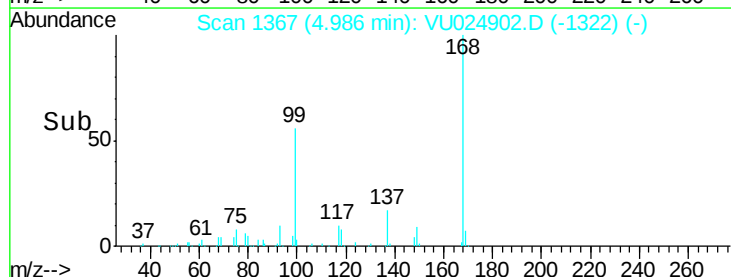
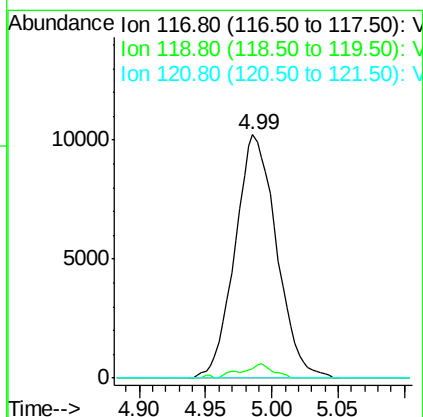
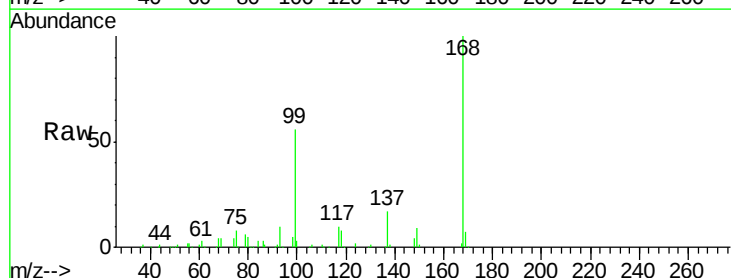
Instrument :
 MSVOA_U
 ClientSampled :

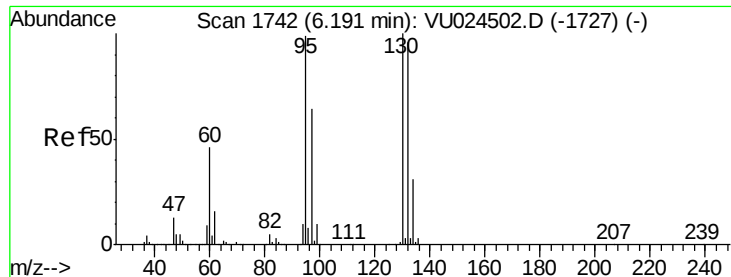
Tot Ion	75	Resp	16930
Ion Ratio	Lower	Upper	
75	100		
110	7.6	17.0	50.9#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 4.94 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.15 min
 Lab File: VU024902.D
 Acq: 26 Jun 2018 02:38

Tgt Ion	117	Resp	22282
Ion Ratio	Lower	Upper	
117	100		
119	4.0	76.1	114.1#
121	0.0	23.7	35.5#





#44

Trichloroethene

Concen: 4.41 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU024902.D

Acq: 26 Jun 2018 02:38

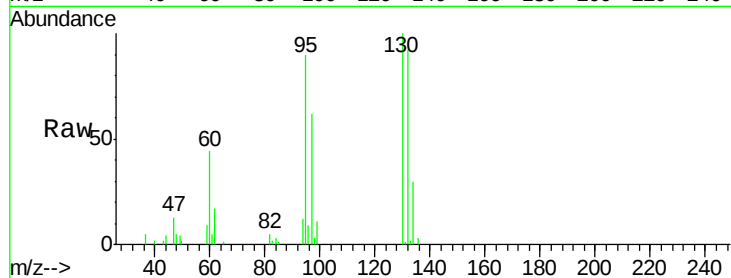
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:130 Resp: 14661

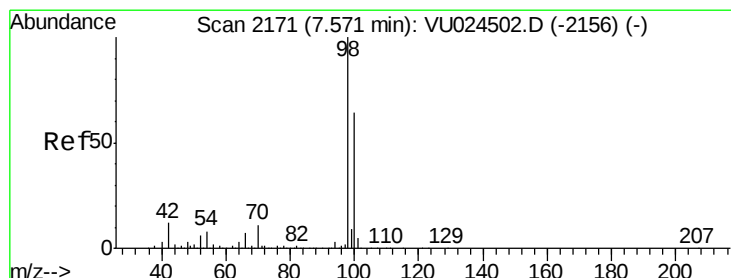
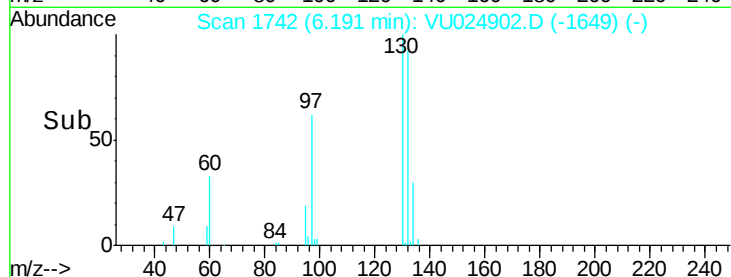
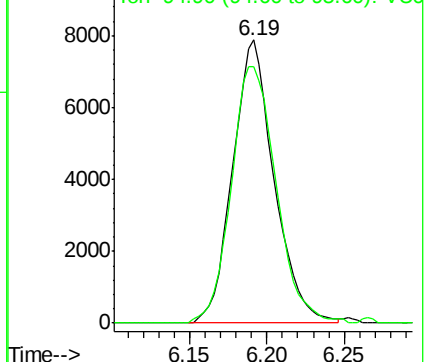
Ion Ratio Lower Upper

130 100

95 90.5 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): VU024902.D (-1649) (-)



#50

Toluene-d8

Concen: 47.28 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024902.D

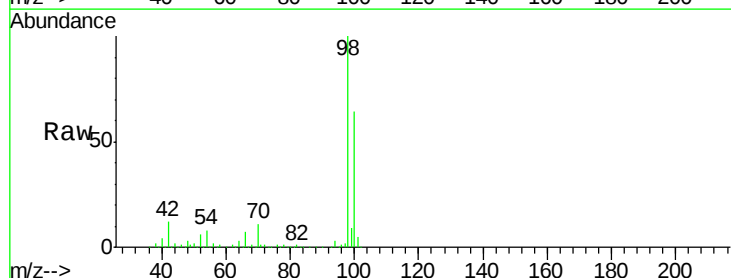
Acq: 26 Jun 2018 02:38

Tgt Ion: 98 Resp: 499276

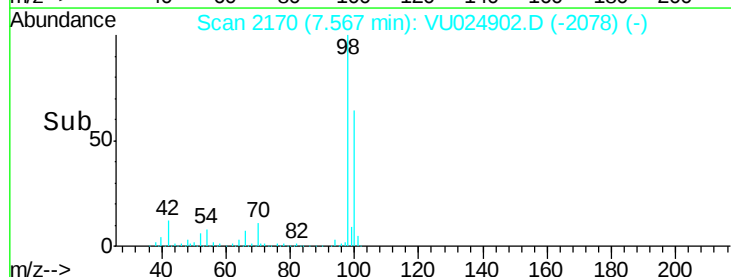
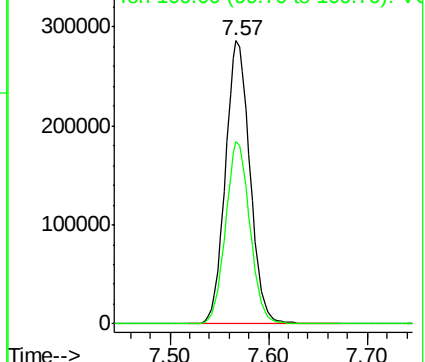
Ion Ratio Lower Upper

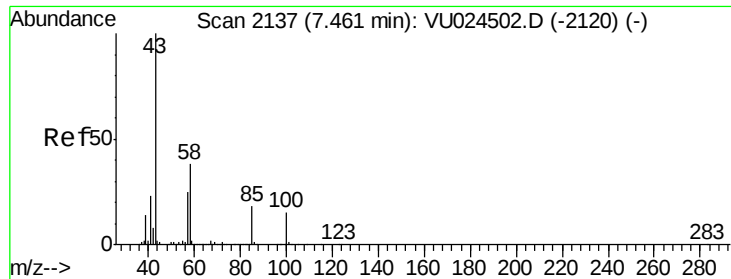
98 100

100 63.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU024902.D (-2078) (-)





#51

4-Methyl-2-Pentanone

Concen: 0.52 ug/l

RT: 7.56 min Scan# 2169

Delta R.T. 0.10 min

Lab File: VU024902.D

Acq: 26 Jun 2018 02:38

Instrument :

MSVOA_U

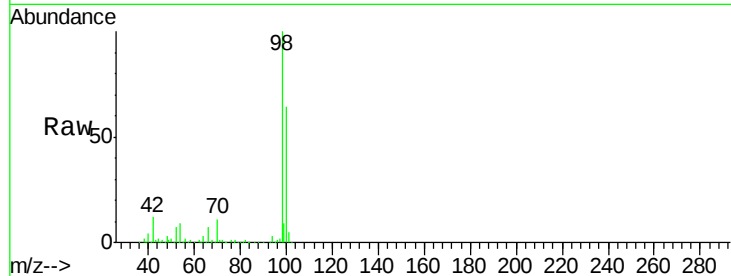
ClientSampleId :

Tot Ion: 43 Resp: 2521

Ion Ratio Lower Upper

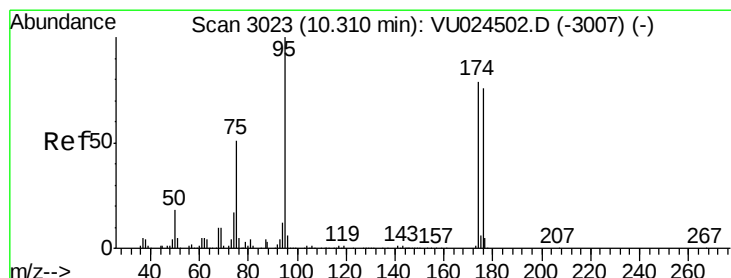
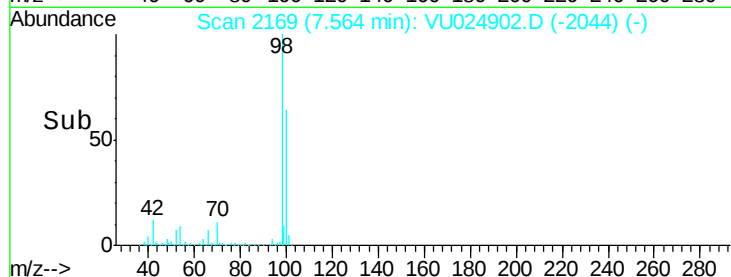
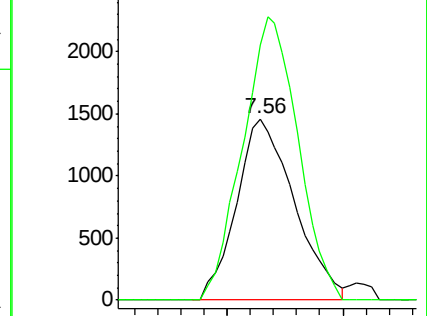
43 100

58 149.4 30.0 45.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#62

4-Bromofluorobenzene

Concen: 44.52 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU024902.D

Acq: 26 Jun 2018 02:38

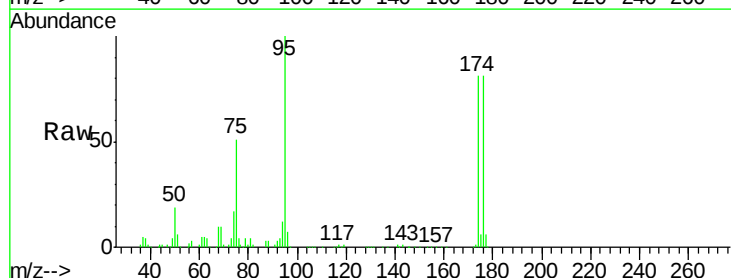
Tgt Ion: 95 Resp: 186697

Ion Ratio Lower Upper

95 100

174 82.7 0.0 165.8

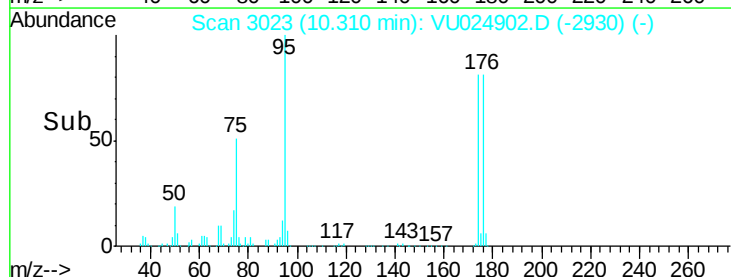
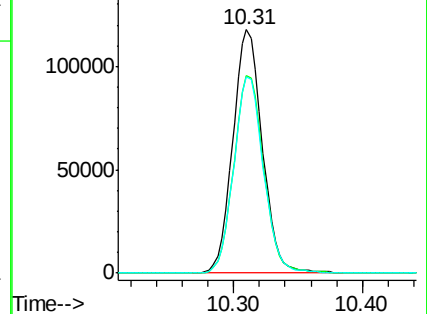
176 81.5 0.0 159.4

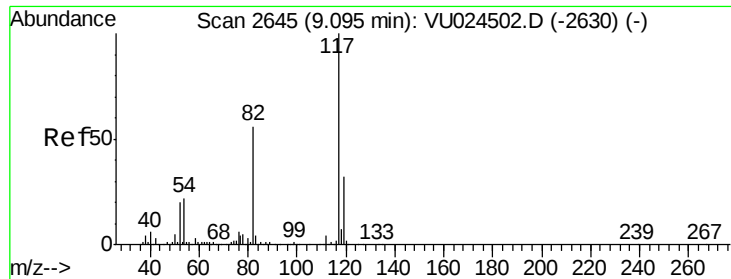


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

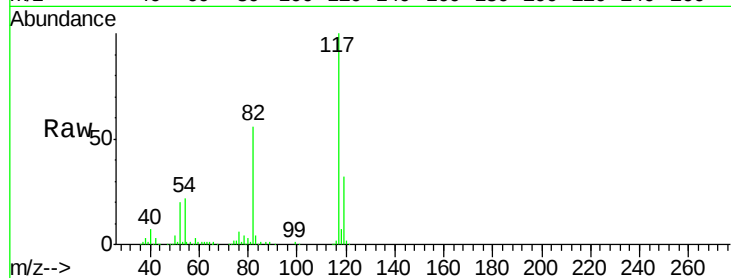




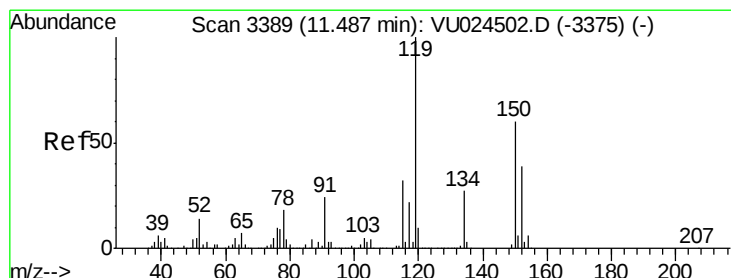
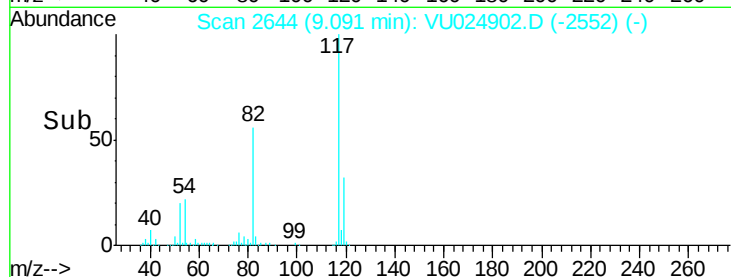
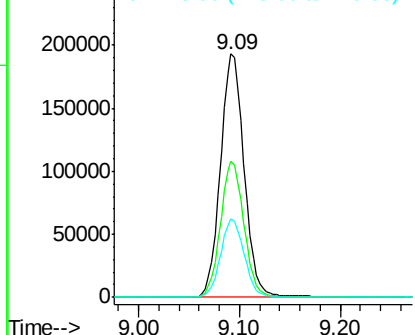
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VU024902.D
Acq: 26 Jun 2018 02:38

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 317434
Ion Ratio Lower Upper
117 100
82 56.0 44.3 66.5
119 32.0 25.4 38.2

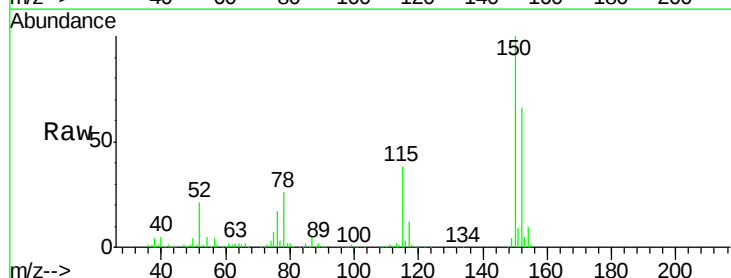


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

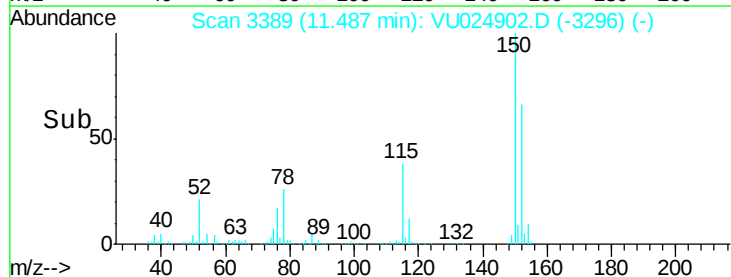
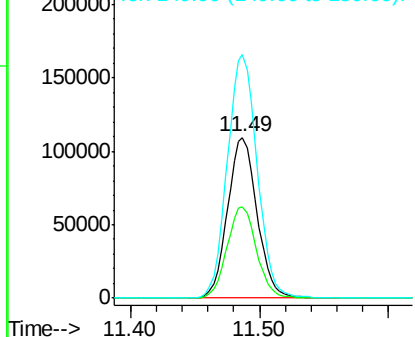


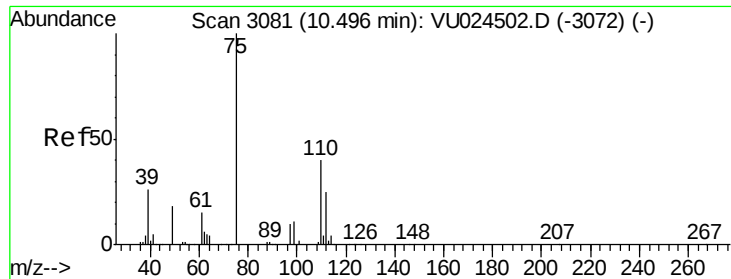
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU024902.D
Acq: 26 Jun 2018 02:38

Tgt Ion:152 Resp: 173188
Ion Ratio Lower Upper
152 100
115 56.8 43.0 129.0
150 154.0 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: 25.06 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024902.D

Acq: 26 Jun 2018 02:38

Instrument :

MSVOA_U

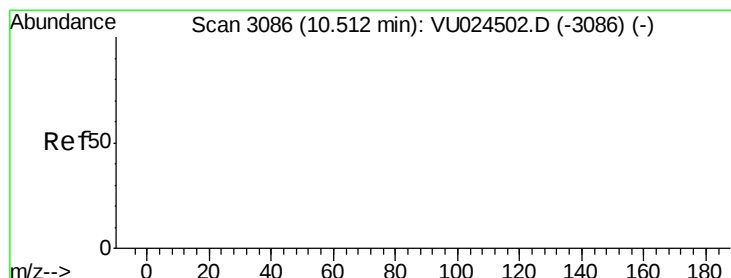
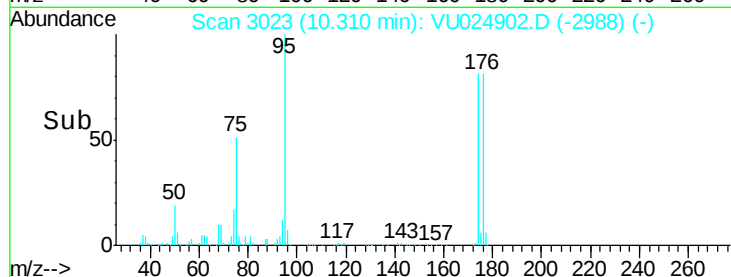
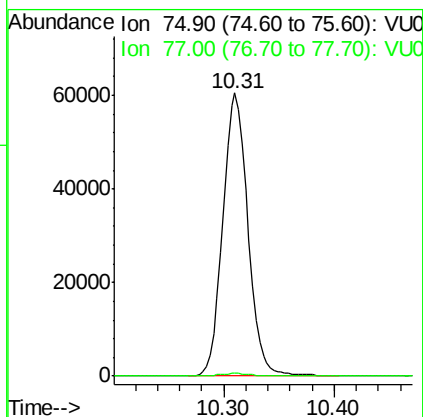
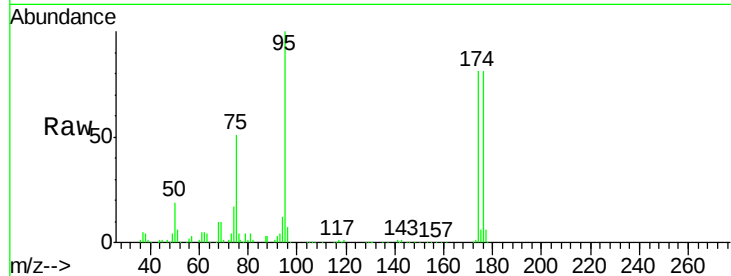
ClientSampled :

Tot Ion: 75 Resp: 95553

Ion Ratio Lower Upper

75 100

77 1.0 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.00 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024902.D

Acq: 26 Jun 2018 02:38

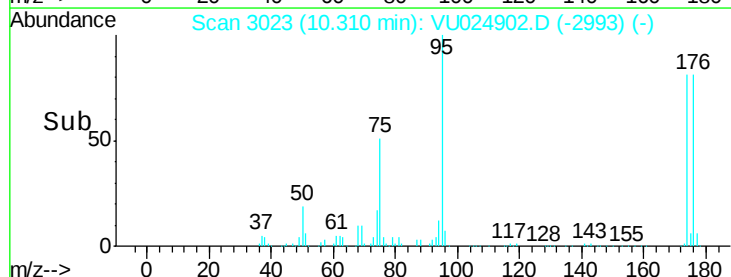
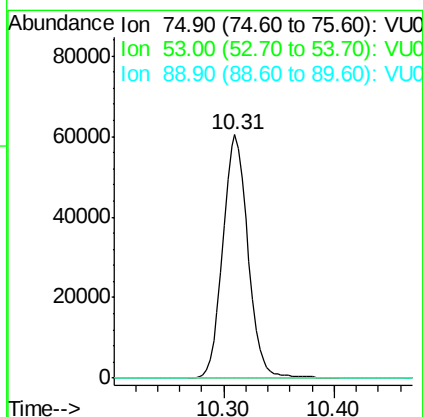
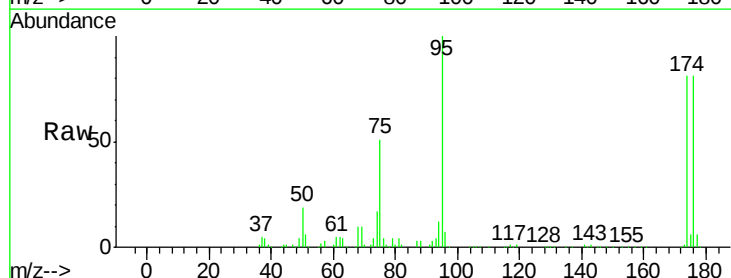
Tgt Ion: 75 Resp: 95553

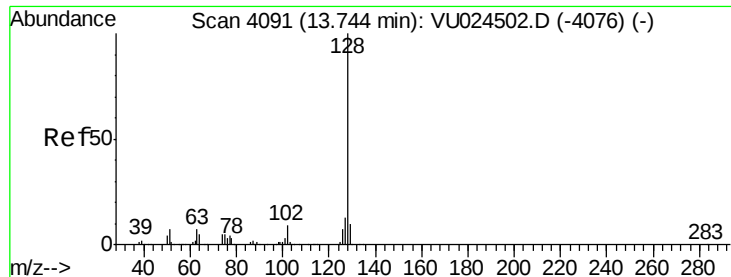
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0





#95

Naphthalene

Concen: 0.71 ug/l

RT: 13.76 min Scan# 4097

Delta R.T. 0.02 min

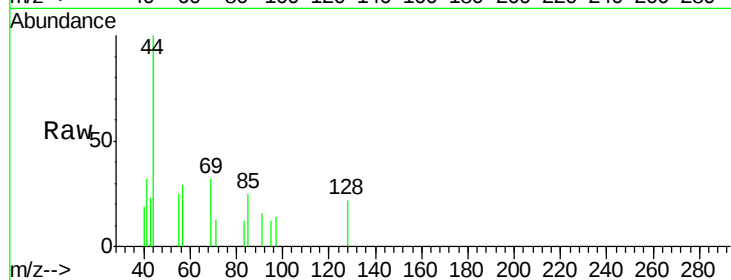
Lab File: VU024902.D

Acq: 26 Jun 2018 02:38

Instrument :

MSVOA_U

ClientSampleId :



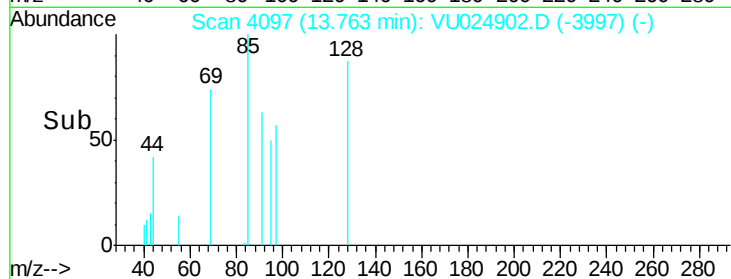
Tot Ion:128 Resp: 372

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

