

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070518\
 Data File : VU025209.D
 Acq On : 05 Jul 2018 12:34
 Operator : MD/SY
 Sample : J3808-12
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 06 05:11:14 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	209313	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	310616	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	290113	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	147914	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	160180	46.88	ug/l	0.00
Spiked Amount			Recovery	=	93.76%	
35) Dibromofluoromethane	4.89	113	123995	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
50) Toluene-d8	7.57	98	451131	47.98	ug/l	0.00
Spiked Amount			Recovery	=	95.96%	
62) 4-Bromofluorobenzene	10.31	95	165483	44.33	ug/l	0.00
Spiked Amount			Recovery	=	88.66%	

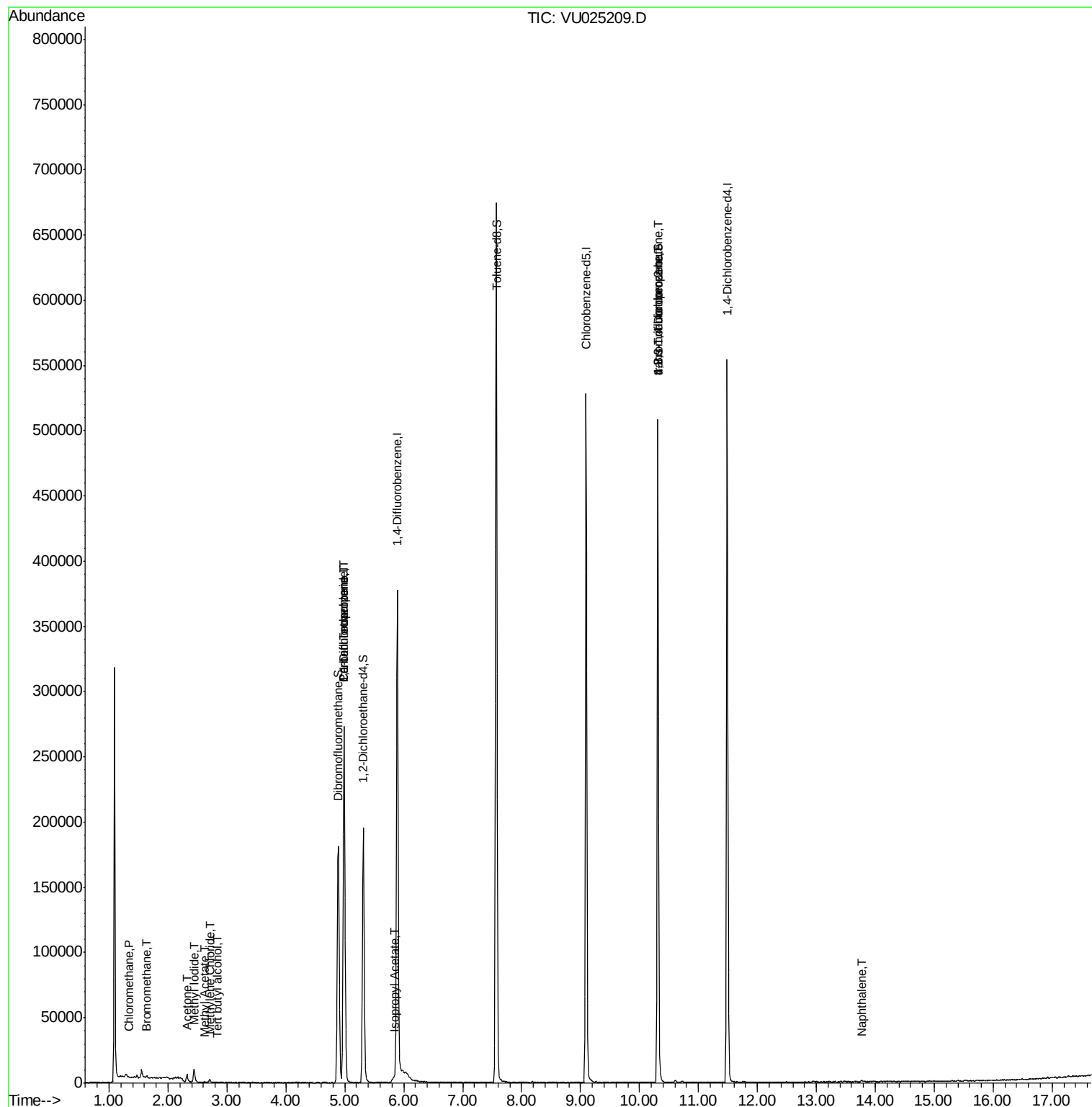
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	723	0.27	ug/l #	72
5) Bromomethane	1.63	94	676	0.51	ug/l #	61
6) Chloroethane	1.70	64	27	Below Cal	#	43
10) Methyl Iodide	2.43	142	249	5.39	ug/l #	40
11) Tert butyl alcohol	2.83	59	396	0.48	ug/l #	72
16) Acetone	2.32	43	5995	3.27	ug/l	98
18) Methyl Acetate	2.63	43	834	0.21	ug/l #	53
20) Methylene Chloride	2.71	84	1231	0.43	ug/l	86
31) Cyclohexane	4.98	56	4032	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	15591	4.27	ug/l #	49
38) Carbon Tetrachloride	4.99	117	20458	5.10	ug/l #	16
43) Isopropyl Acetate	5.82	43	3647	0.53	ug/l #	62
76) 1,2,3-Trichloropropane	10.31	75	86253	26.49	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	86253	61.30	ug/l #	100
95) Naphthalene	13.77	128	1518	0.82	ug/l #	89

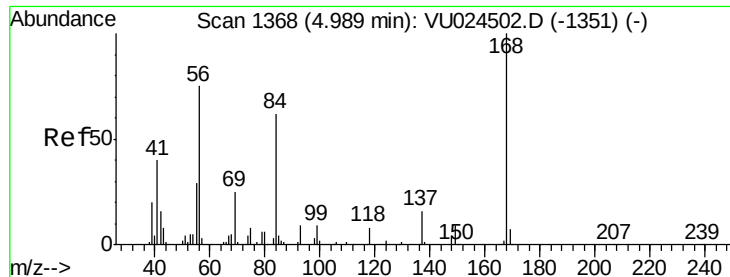
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU025209.D

Acq: 05 Jul 2018 12:34

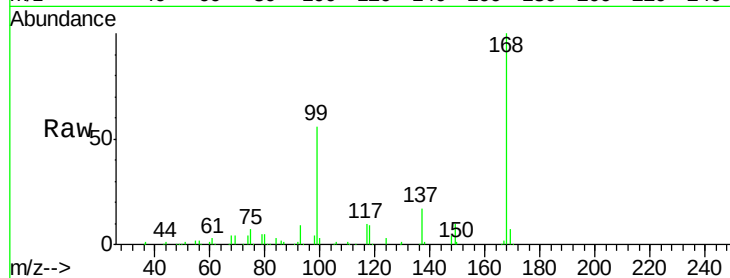
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 209313

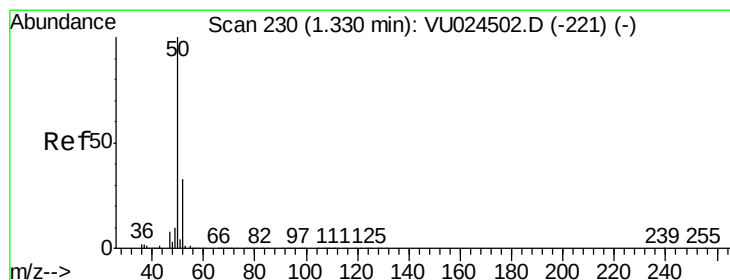
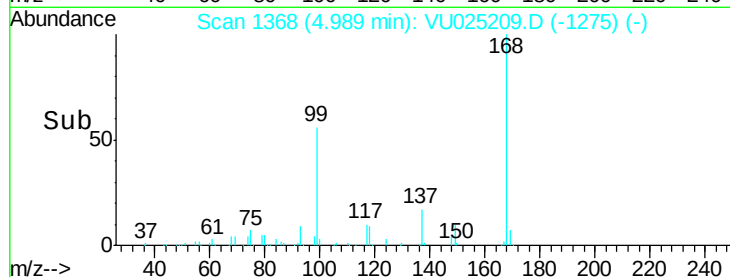
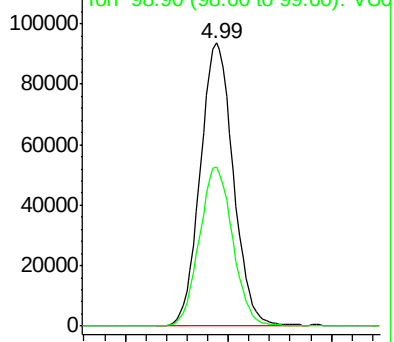
Ion Ratio Lower Upper

168 100

99 56.1 43.2 64.8



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



#3

Chloromethane

Concen: 0.27 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU025209.D

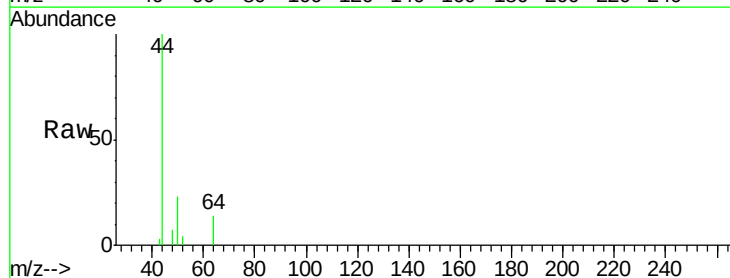
Acq: 05 Jul 2018 12:34

Tgt Ion: 50 Resp: 723

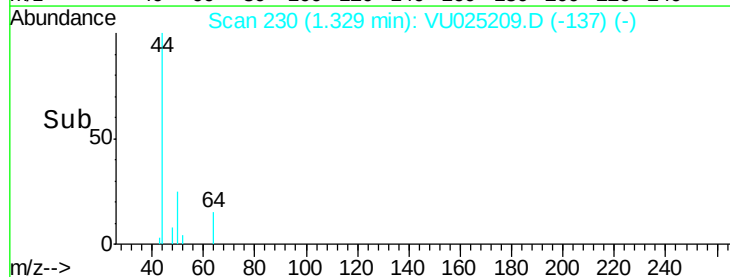
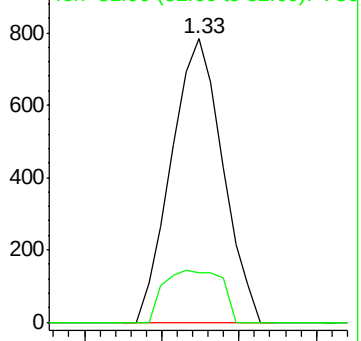
Ion Ratio Lower Upper

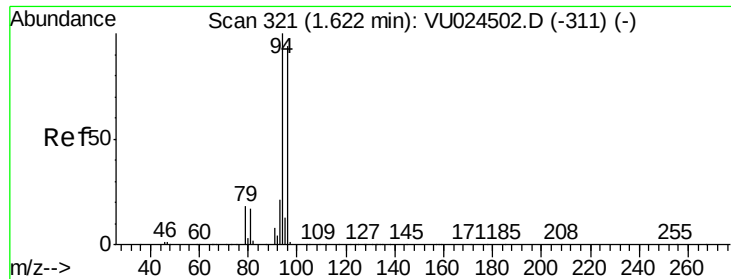
50 100

52 17.4 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU024502.D (-221) (-)





#5

Bromomethane

Concen: 0.51 ug/l

RT: 1.63 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU025209.D

Acq: 05 Jul 2018 12:34

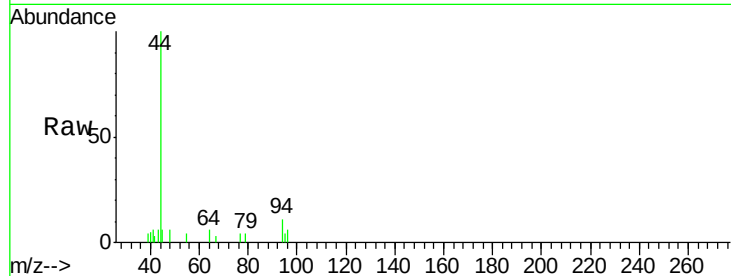
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 94 Resp: 676

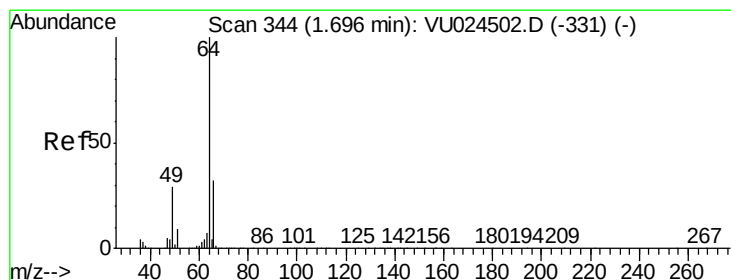
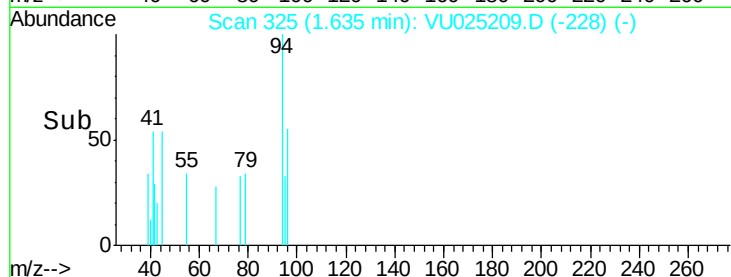
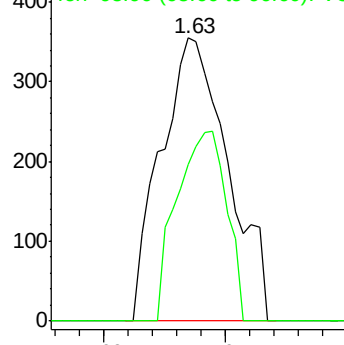
Ion Ratio Lower Upper

94 100

96 55.2 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VU0
Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 346

Delta R.T. 0.01 min

Lab File: VU025209.D

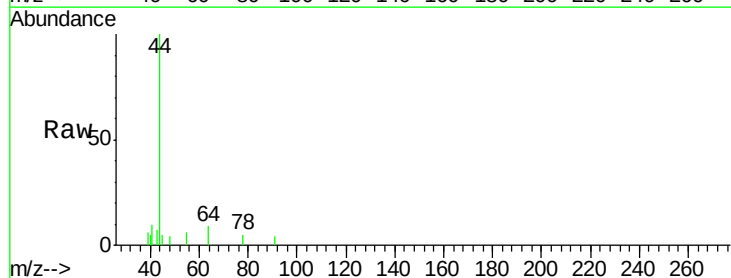
Acq: 05 Jul 2018 12:34

Tgt Ion: 64 Resp: 27

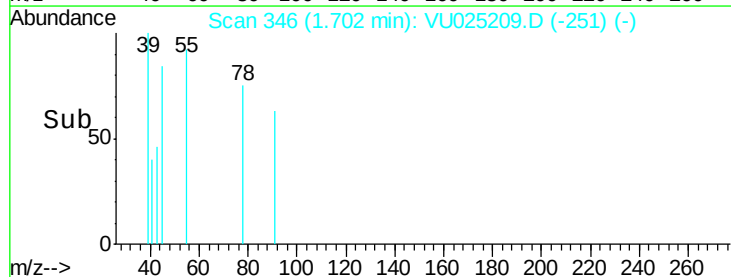
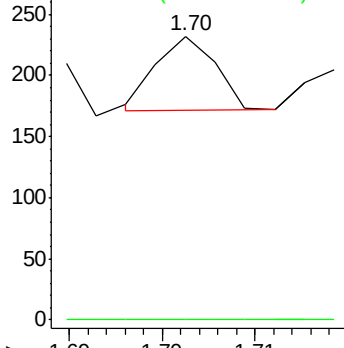
Ion Ratio Lower Upper

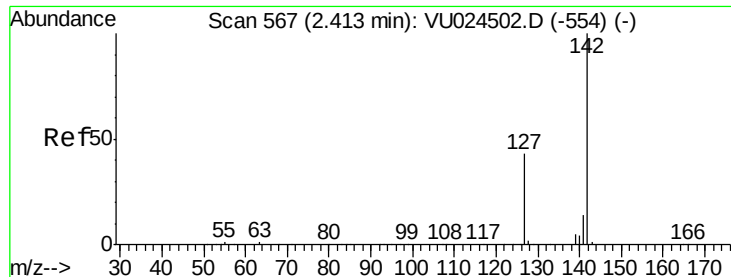
64 100

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

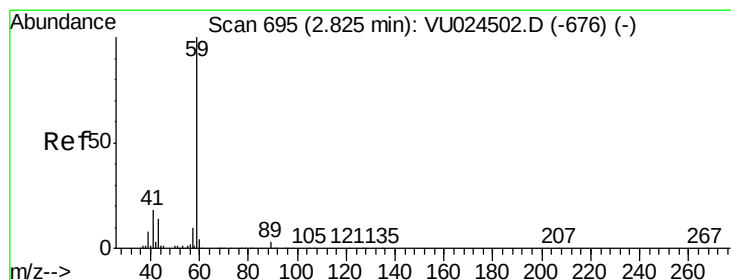
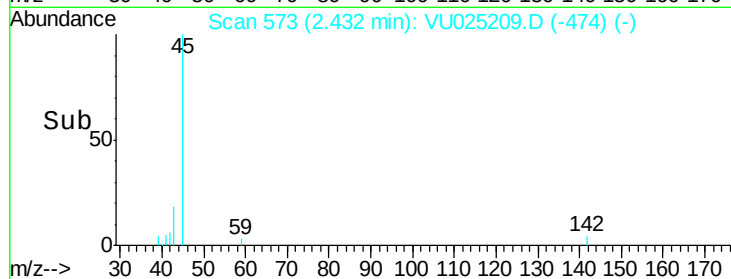
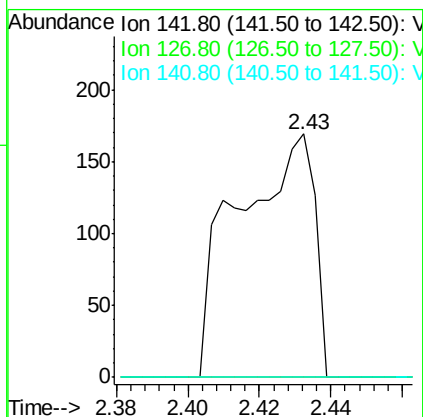
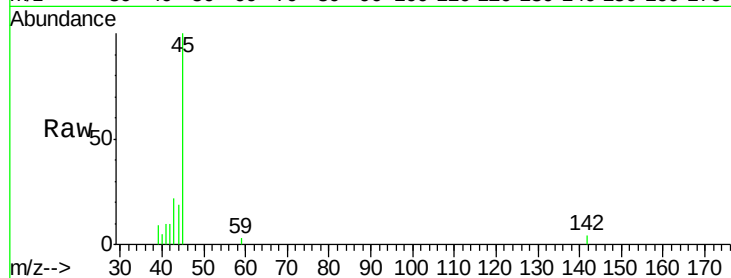




#10
Methvl Iodide
Concen: 5.39 ug/l
RT: 2.43 min Scan# 573
Delta R.T. 0.02 min
Lab File: VU025209.D
Acq: 05 Jul 2018 12:34

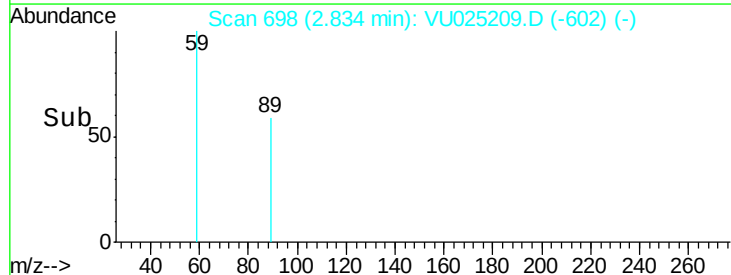
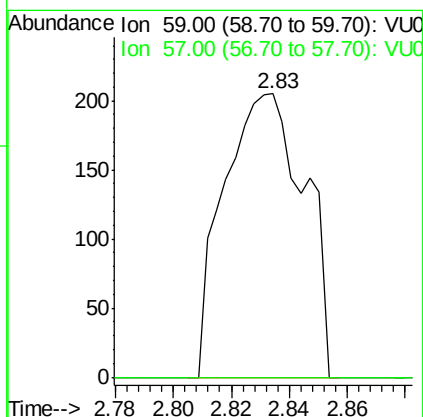
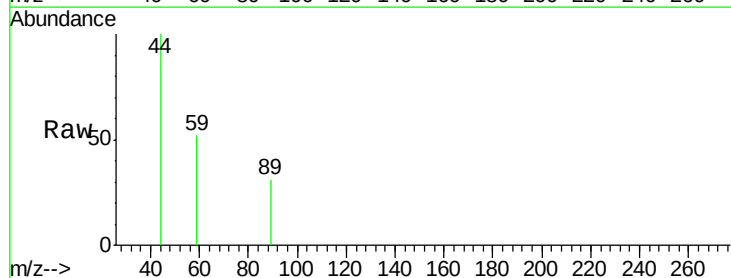
Instrument :
MSVOA_U
ClientSampleId :

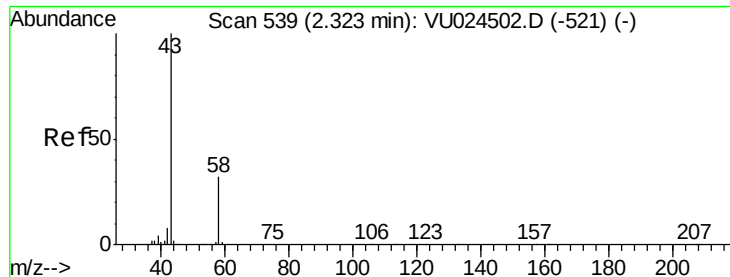
Tot Ion:142 Resp: 249
Ion Ratio Lower Upper
142 100
127 0.0 35.6 53.4#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 0.48 ug/l
RT: 2.83 min Scan# 698
Delta R.T. 0.01 min
Lab File: VU025209.D
Acq: 05 Jul 2018 12:34

Tgt Ion: 59 Resp: 396
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#16

Acetone

Concen: 3.27 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU025209.D

Acq: 05 Jul 2018 12:34

Instrument :

MSVOA_U

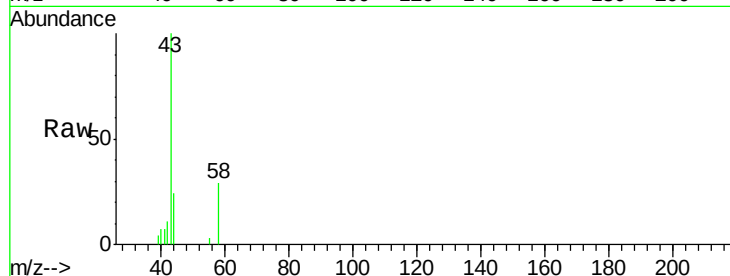
ClientSampleId :

Tot Ion: 43 Resp: 5995

Ion Ratio Lower Upper

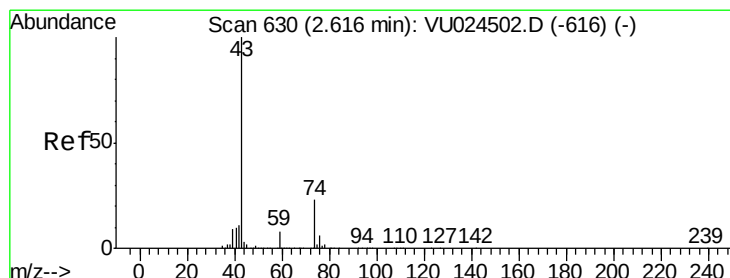
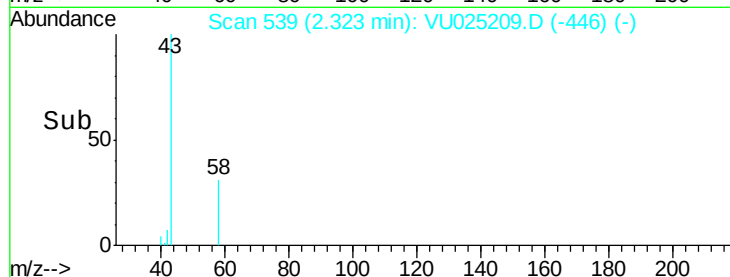
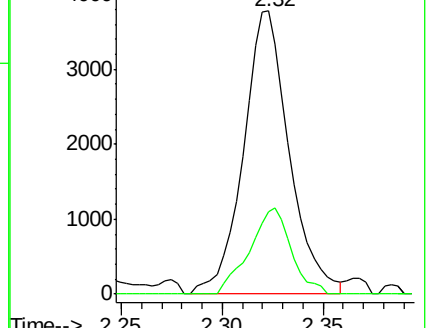
43 100

58 29.4 24.4 36.6



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

Ion 58.00 (57.70 to 58.70): VU024502.D (-521) (-)



#18

Methyl Acetate

Concen: 0.21 ug/l

RT: 2.63 min Scan# 633

Delta R.T. 0.01 min

Lab File: VU025209.D

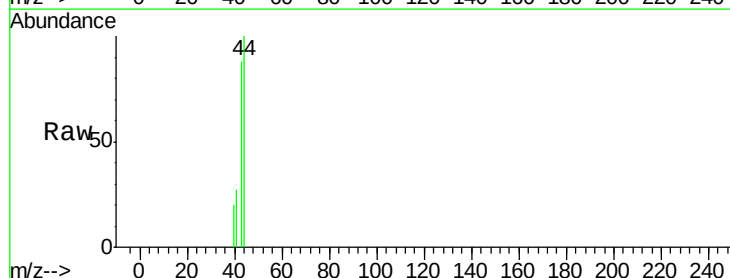
Acq: 05 Jul 2018 12:34

Tgt Ion: 43 Resp: 834

Ion Ratio Lower Upper

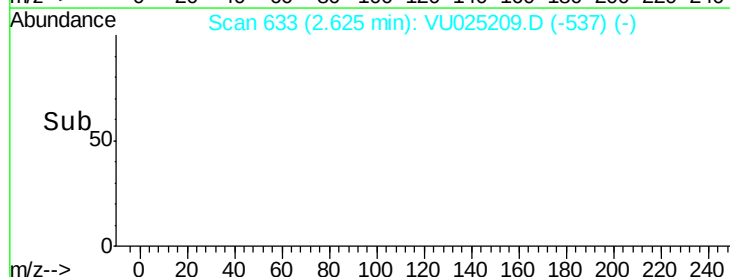
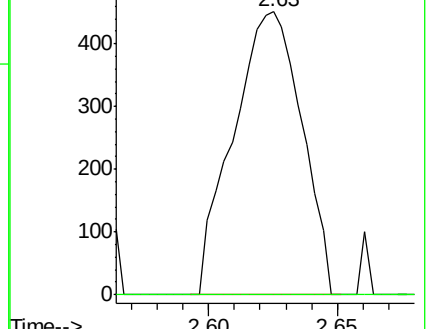
43 100

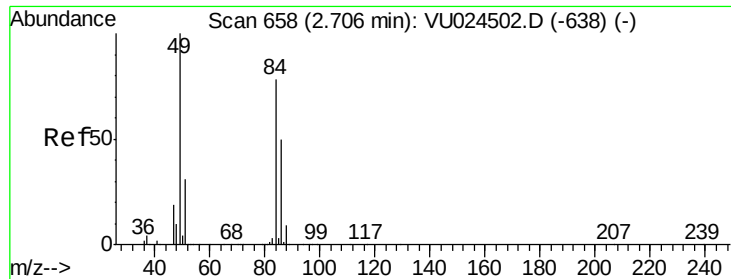
74 0.0 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VU024502.D (-616) (-)

Ion 74.00 (73.70 to 74.70): VU024502.D (-616) (-)





#20

Methvlene Chloride

Concen: 0.43 ua/l

RT: 2.71 min Scan# 658

Delta R.T. -0.00 min

Lab File: VU025209.D

Acq: 05 Jul 2018 12:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 84 Resp: 1231

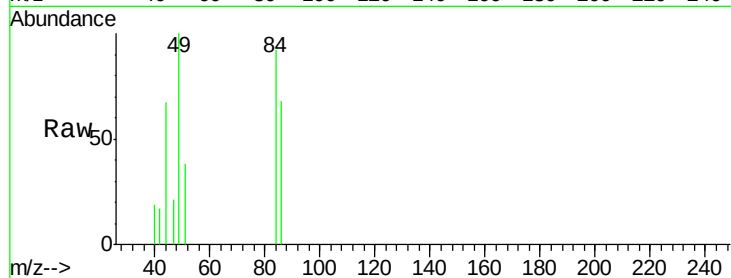
Ion Ratio Lower Upper

84 100

49 108.7 103.8 155.8

51 41.5 32.0 48.0

86 73.7 51.6 77.4

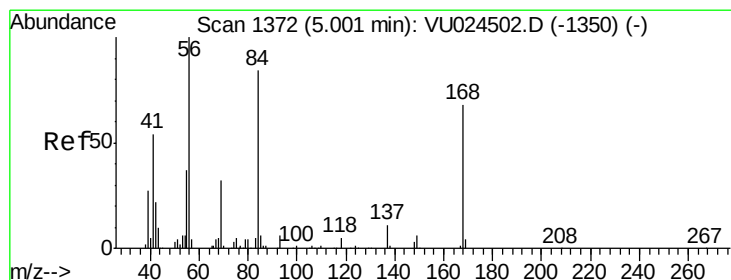
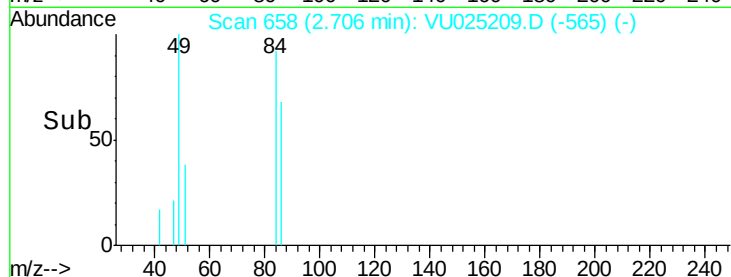
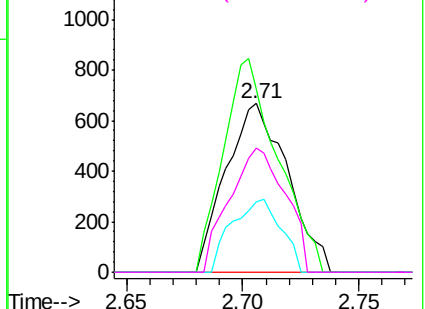


Abundance Ion 83.90 (83.60 to 84.60): VU0

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



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1366

Delta R.T. -0.02 min

Lab File: VU025209.D

Acq: 05 Jul 2018 12:34

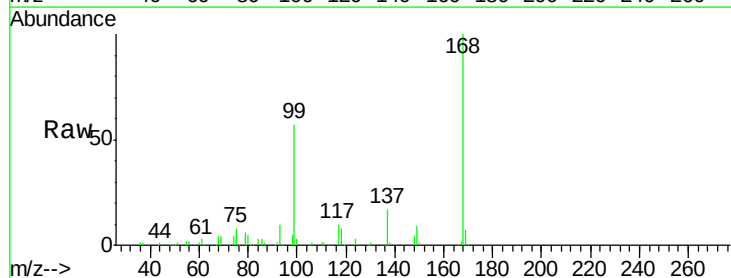
Tgt Ion: 56 Resp: 4032

Ion Ratio Lower Upper

56 100

69 191.5 24.8 37.2#

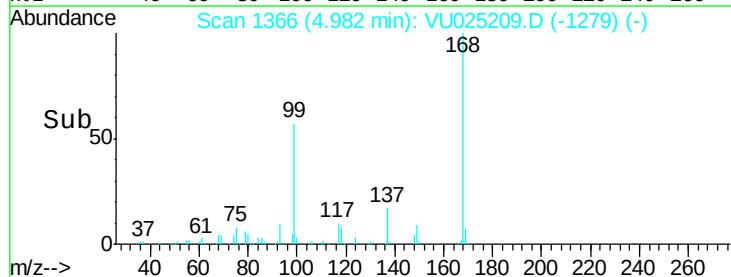
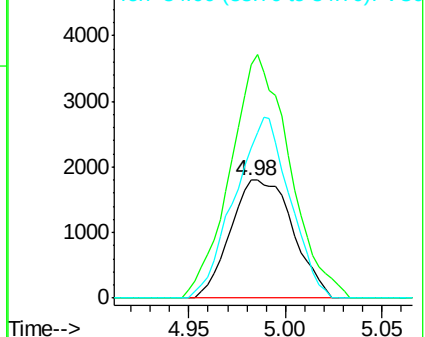
84 127.0 65.2 97.8#

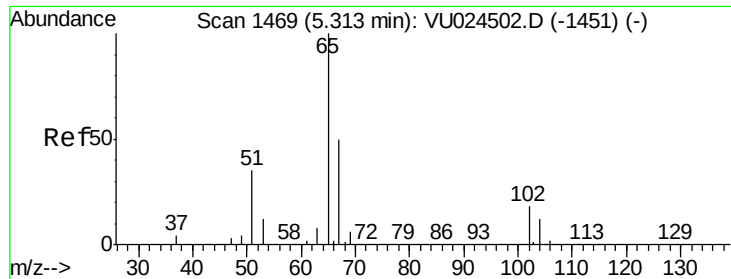


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

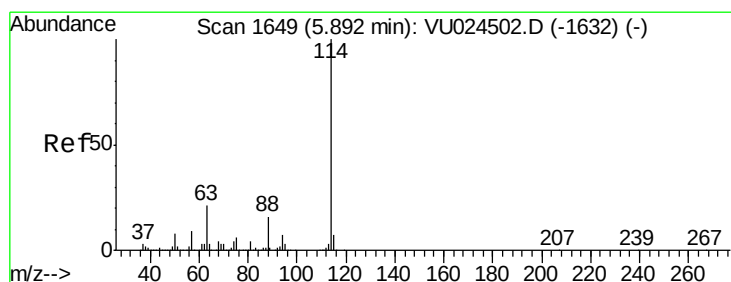
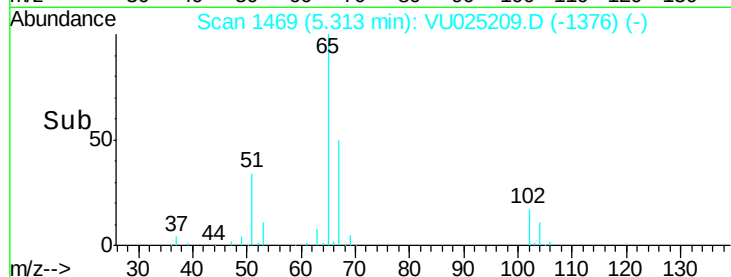
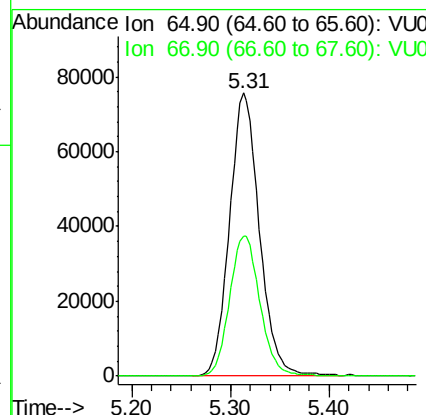
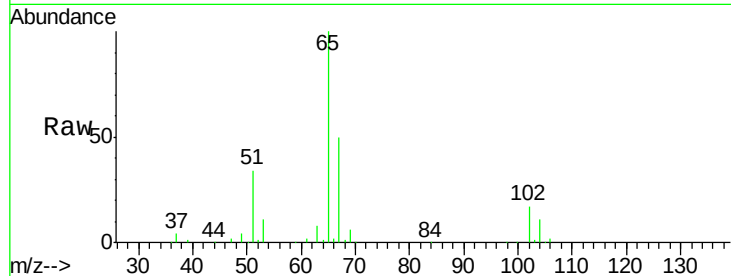




#33
 1,2-Dichloroethane-d4
 Concen: 46.88 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VU025209.D
 Acq: 05 Jul 2018 12:34

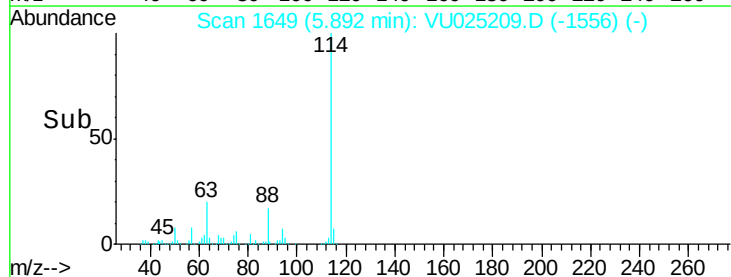
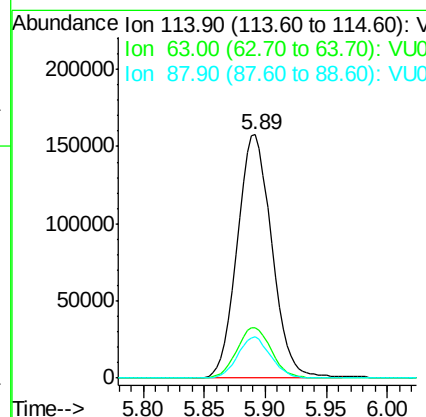
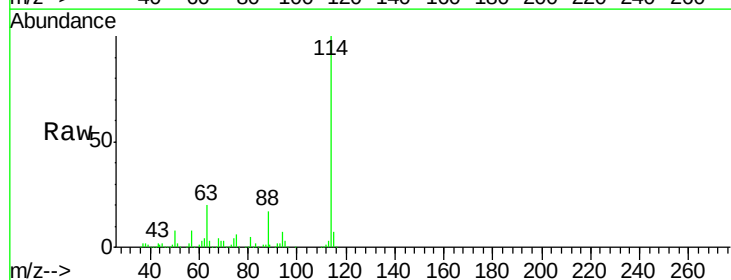
Instrument :
 MSVOA_U
 ClientSampleId :

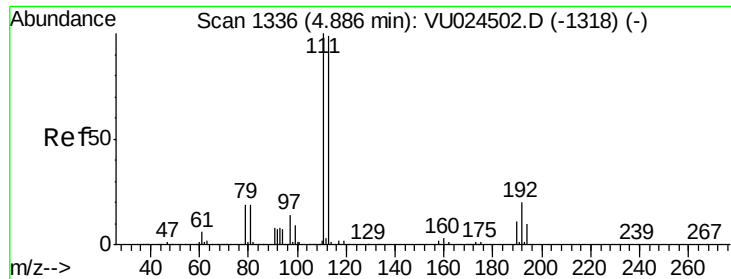
Tot Ion: 65 Resp: 160180
 Ion Ratio Lower Upper
 65 100
 67 50.5 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU025209.D
 Acq: 05 Jul 2018 12:34

Tgt Ion: 114 Resp: 310616
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 45.4
 88 16.9 0.0 31.0

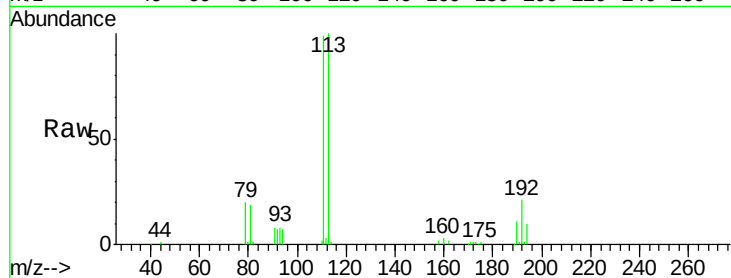




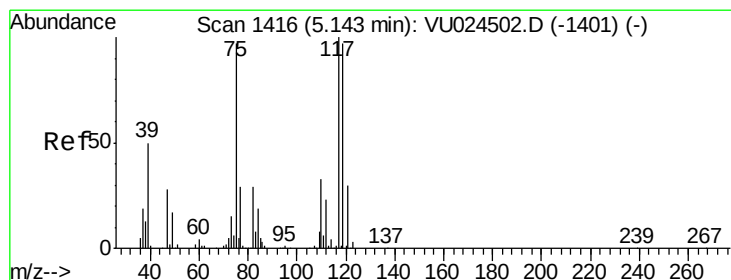
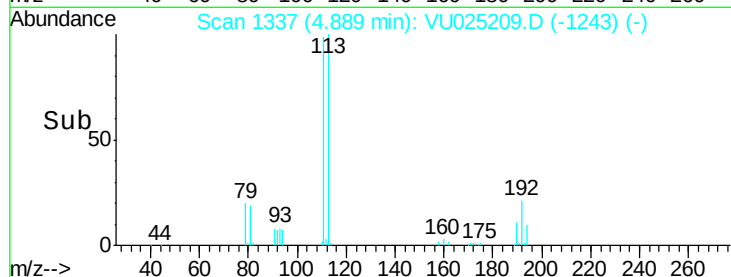
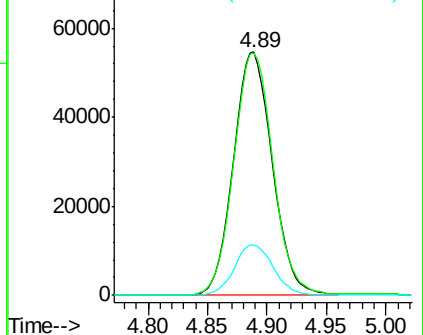
#35
 Dibromofluoromethane
 Concen: 48.10 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025209.D
 Acq: 05 Jul 2018 12:34

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.5	82.2	123.4
192	20.8	16.2	24.4

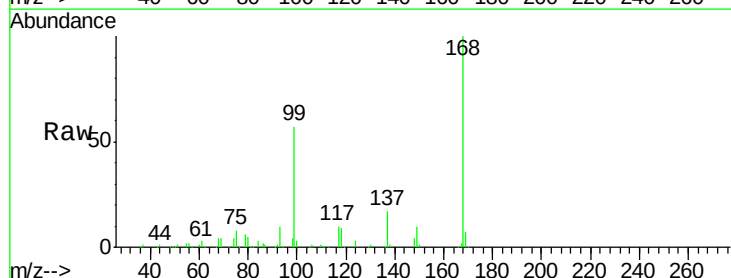


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

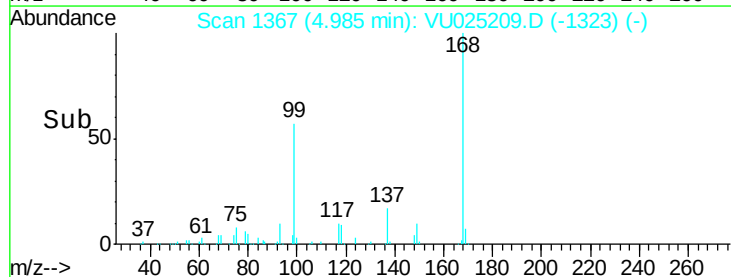
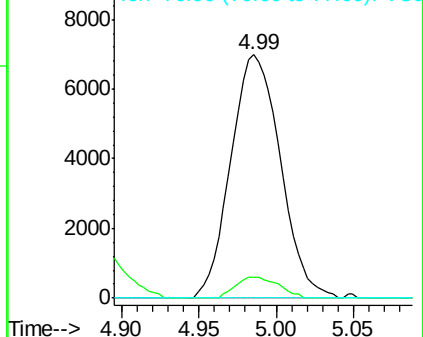


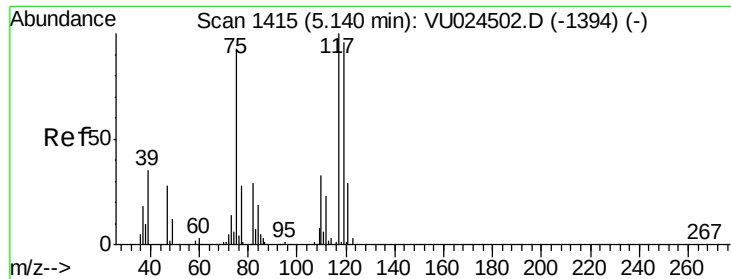
#36
 1,1-Dichloropropene
 Concen: 4.27 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU025209.D
 Acq: 05 Jul 2018 12:34

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.5	17.0	50.9#
77	0.0	24.2	36.4#



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: 5.10 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025209.D

Acq: 05 Jul 2018 12:34

Instrument :

MSVOA_U

ClientSampleId :

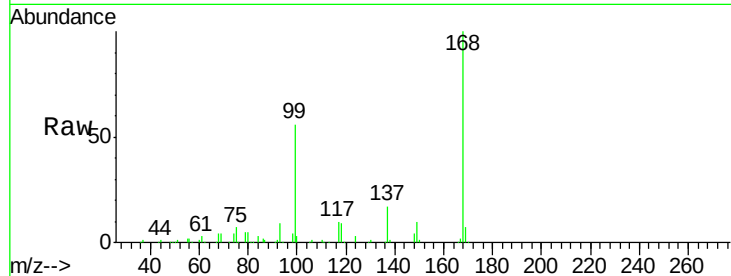
Tot Ion:117 Resp: 20458

Ion Ratio Lower Upper

117 100

119 4.5 76.1 114.1#

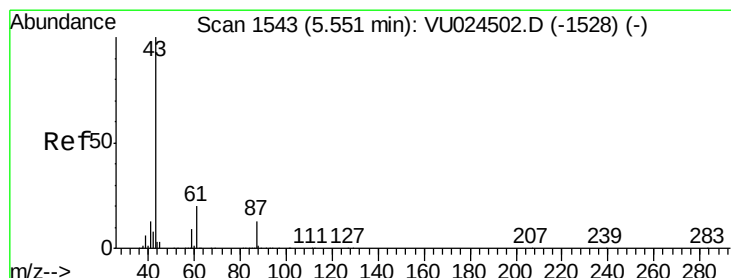
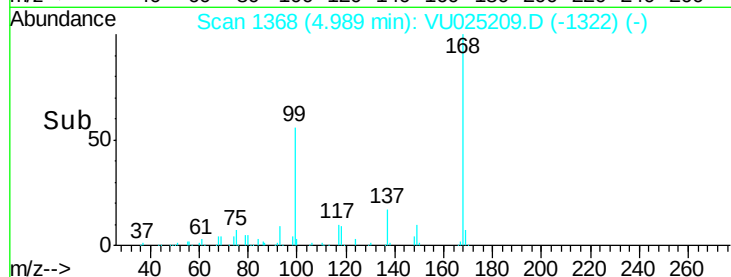
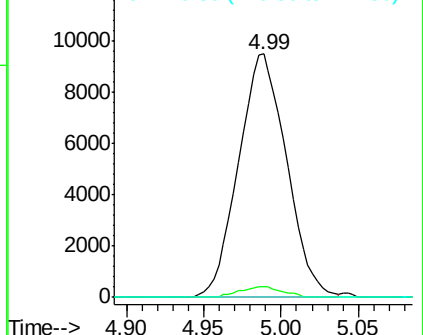
121 0.0 23.7 35.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.53 ug/l

RT: 5.82 min Scan# 1628

Delta R.T. 0.27 min

Lab File: VU025209.D

Acq: 05 Jul 2018 12:34

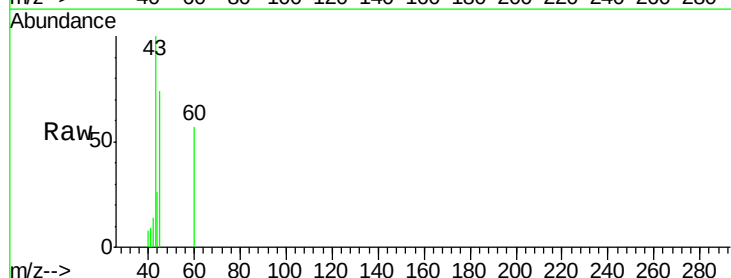
Tgt Ion: 43 Resp: 3647

Ion Ratio Lower Upper

43 100

61 0.0 15.4 23.0#

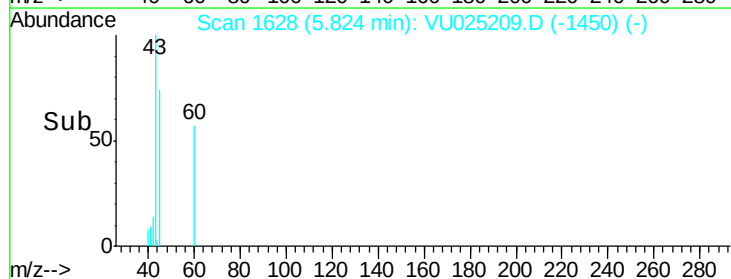
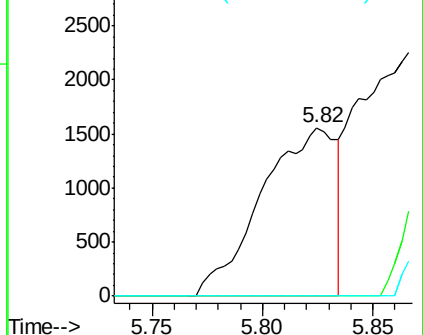
87 0.0 10.0 15.0#

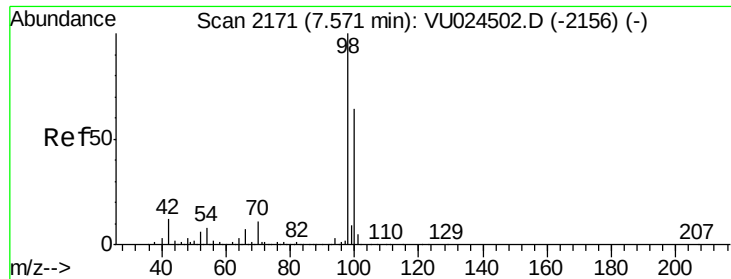


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

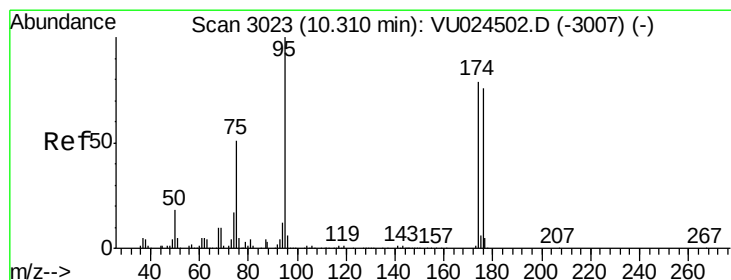
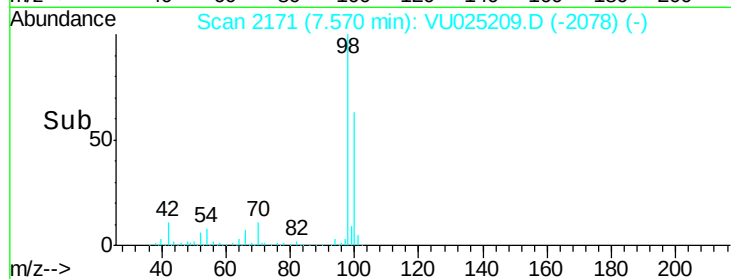
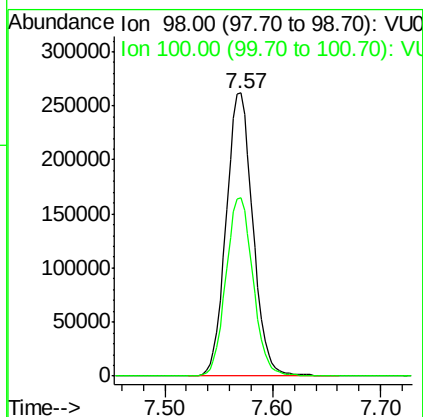
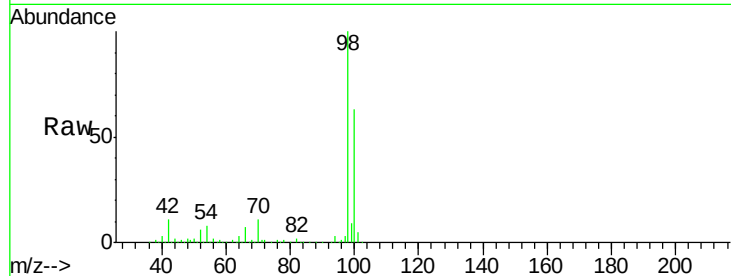




#50
Toluene-d8
Concen: 47.98 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. -0.00 min
Lab File: VU025209.D
Acq: 05 Jul 2018 12:34

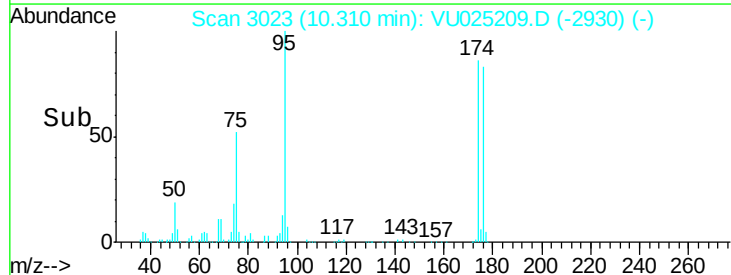
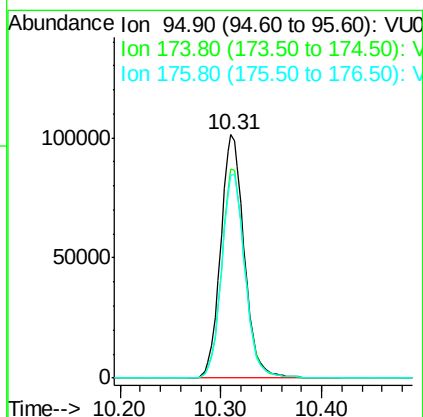
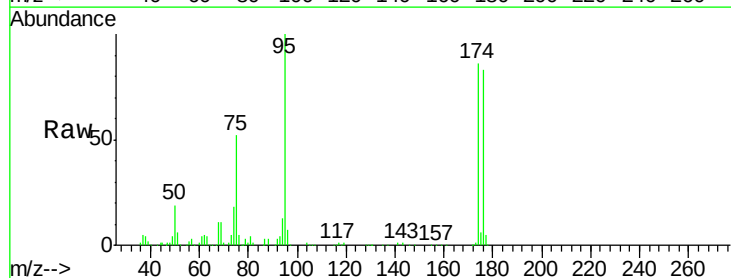
Instrument :
MSVOA_U
ClientSampled :

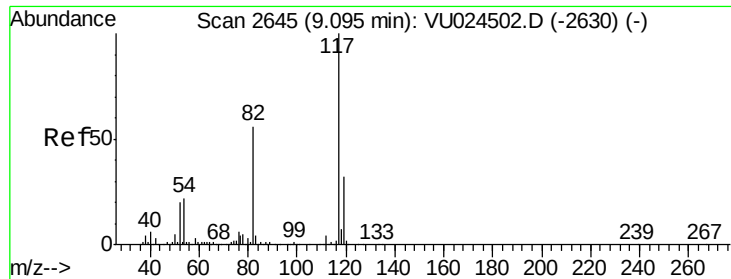
Tot Ion: 98 Resp: 451131
Ion Ratio Lower Upper
98 100
100 63.9 51.1 76.7



#62
4-Bromofluorobenzene
Concen: 44.33 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.00 min
Lab File: VU025209.D
Acq: 05 Jul 2018 12:34

Tgt Ion: 95 Resp: 165483
Ion Ratio Lower Upper
95 100
174 84.6 0.0 165.8
176 83.5 0.0 159.4

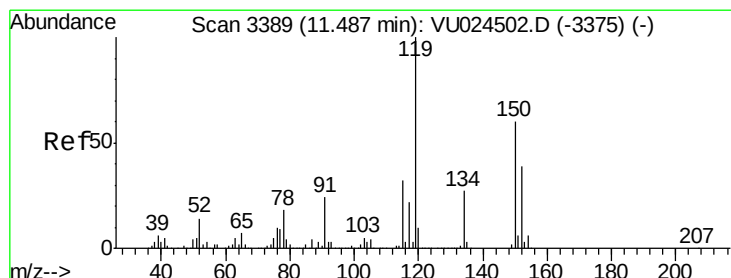
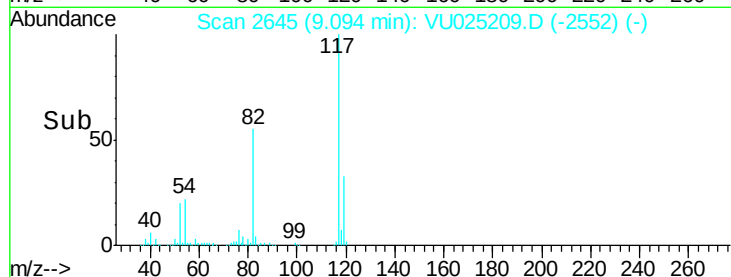
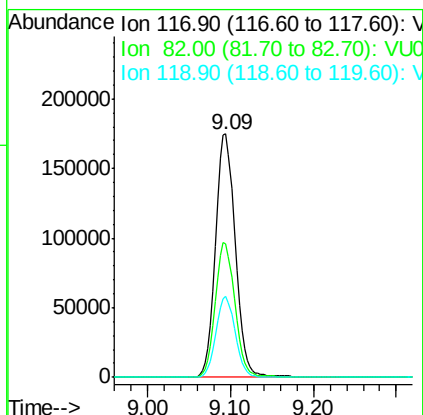
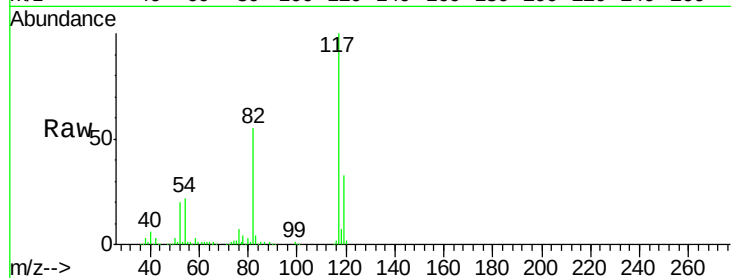




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU025209.D
Acq: 05 Jul 2018 12:34

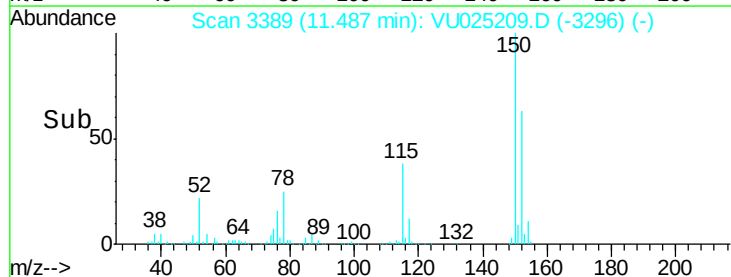
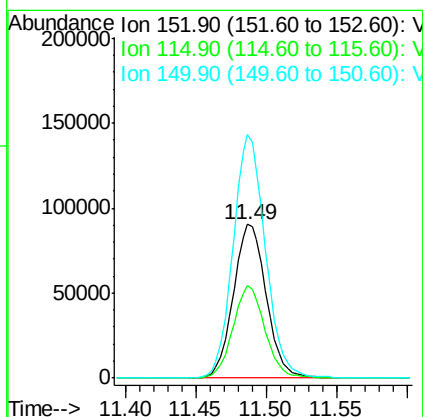
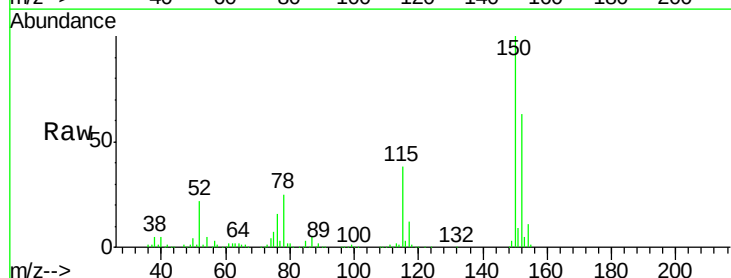
Instrument :
MSVOA_U
ClientSampleId :

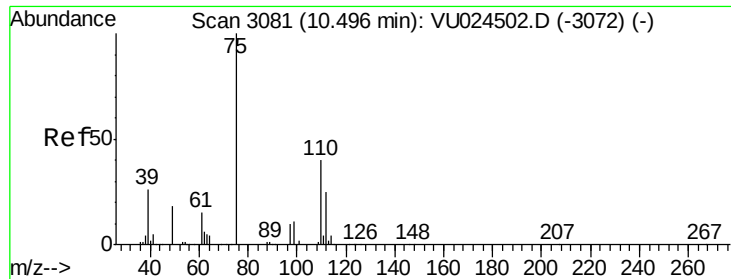
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.9	44.3	66.5
119	33.1	25.4	38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU025209.D
Acq: 05 Jul 2018 12:34

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.5	43.0	129.0
150	156.0	0.0	354.0





#76

1,2,3-Trichloropropane

Concen: 26.49 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025209.D

Acq: 05 Jul 2018 12:34

Instrument :

MSVOA_U

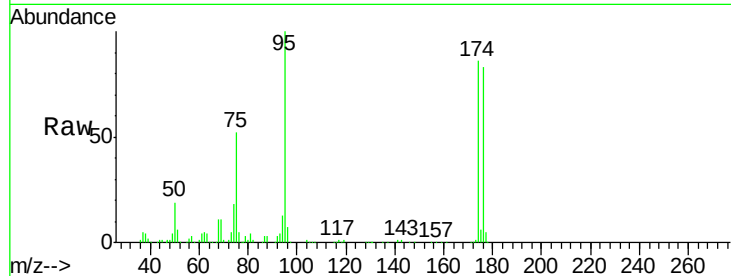
ClientSampleId :

Tot Ion: 75 Resp: 86253

Ion Ratio Lower Upper

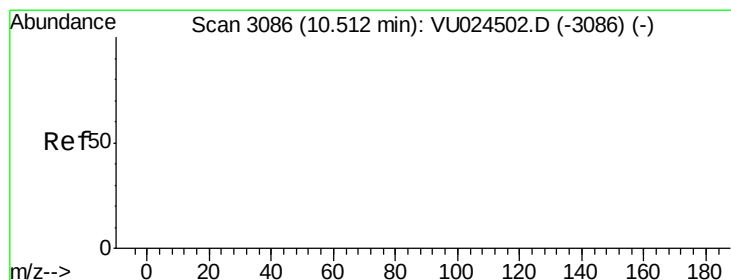
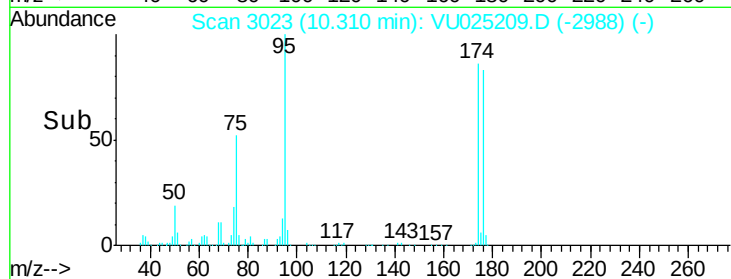
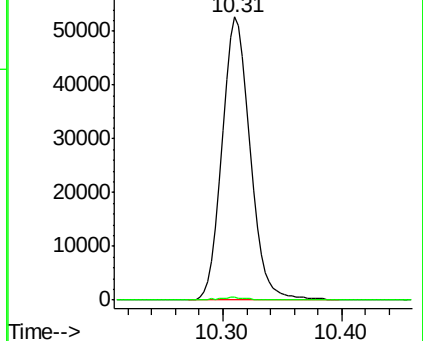
75 100

77 0.9 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: 61.30 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025209.D

Acq: 05 Jul 2018 12:34

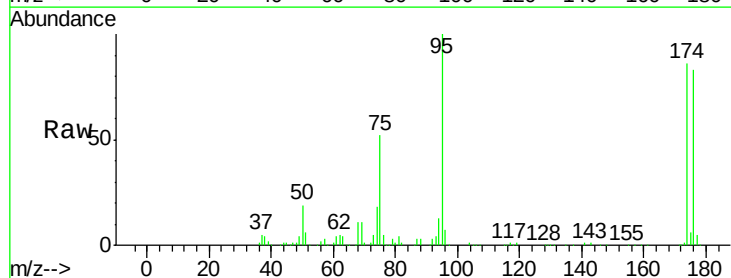
Tgt Ion: 75 Resp: 86253

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

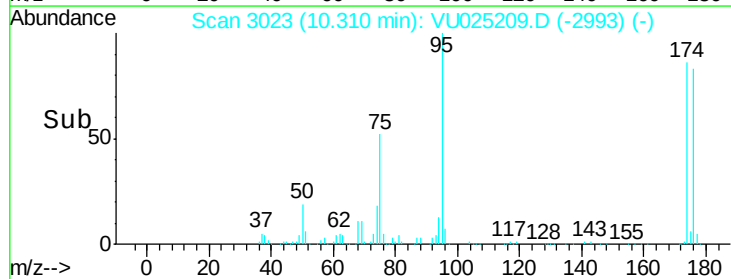
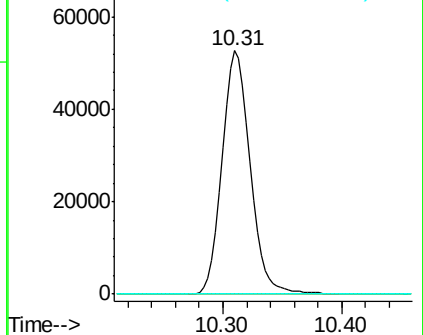
89 0.0 0.0 0.0

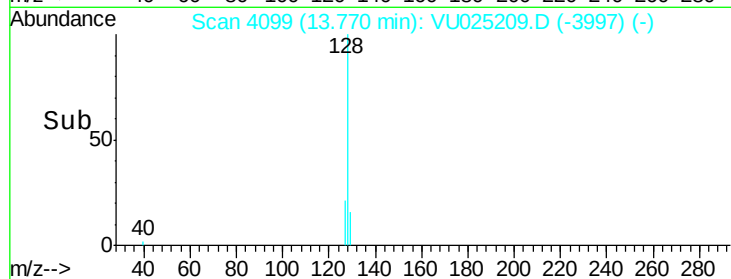
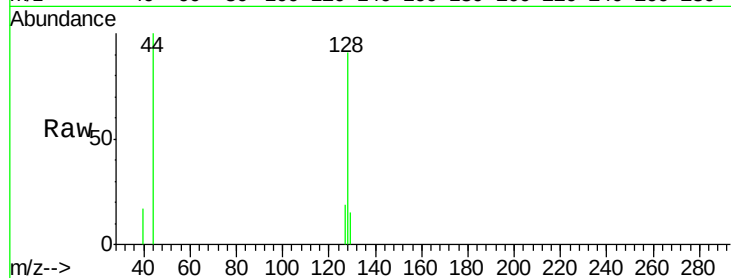
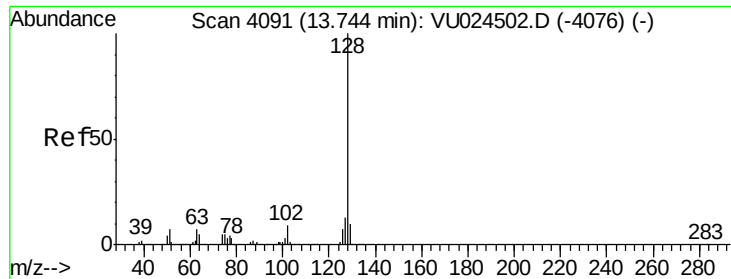


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#95

Naphthalene

Concen: 0.82 ug/l

RT: 13.77 min Scan# 4099

Delta R.T. 0.03 min

Lab File: VU025209.D

Acq: 05 Jul 2018 12:34

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:128 Resp: 1518

Ion Ratio Lower Upper

128 100

127 10.3 10.6 16.0#

129 4.5 8.6 12.8#

